# WORLDWIDE wwPDB PROTEIN DATA BANK

# Full wwPDB NMR Structure Validation Report ⓘ

Dec 25, 2024 – 06:06 PM EST

|  |  |  |
|---|---|---|
| PDB ID | : | 7LOI |
| BMRB ID | : | 30856 |
| Title | : | Model of the HIV-1 gp41 membrane-proximal external region, transmembrane domain and cytoplasmic tail |
| Authors | : | Piai, A.; Fu, Q.; Sharp, A.K.; Bighi, B.; Brown, A.M.; Chou, J.J. |
| Deposited on | : | 2021-02-10 |

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

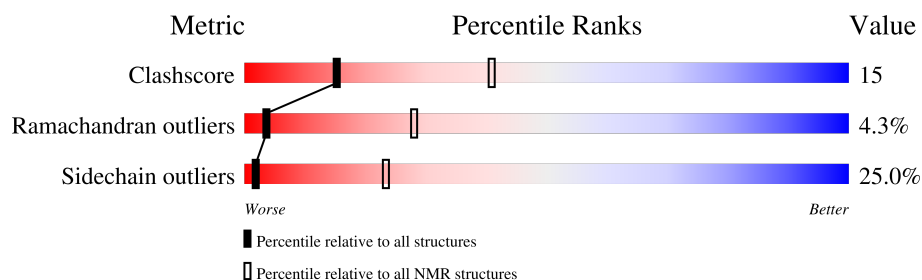|  |  |  |
|---|---|---|
| MolProbity | : | 4.02b-467 |
| Percentile statistics | : | 20231227.v01 (using entries in the PDB archive December 27th 2023) |
| wwPDB-RCI | : | v_1n_11_5_13_A (Berjanski et al., 2005) |
| PANAV | : | Wang et al. (2010) |
| wwPDB-ShiftChecker | : | v1.2 |
| BMRB Restraints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

# 1 Overall quality at a glance ⓘ

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

The overall completeness of chemical shifts assignment is 8%.

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

| Metric | Percentile Ranks | Value |
|--------|------------------|-------|
| Clashscore | | 15 |
| Ramachandran outliers | | 4.3% |
| Sidechain outliers | | 25.0% |

*Worse*            *Better*

▮ Percentile relative to all structures
❏ Percentile relative to all NMR structures

| 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 | 197 | 46%     39%     •    11% |
| 1 | B | 197 | 48%     39%     •    11% |
| 1 | C | 197 | 49%     38%     •    11% |

WORLD WIDE
wwPDB
PROTEIN DATA BANK

## 2 Ensemble composition and analysis ⓘ

This entry contains 15 models. Model 4 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

| Well-defined (core) protein residues | | | |
|---|---|---|---|
| Well-defined core | Residue range (total) | Backbone RMSD (Å) | Medoid model |
| 1 | A:660-A:716, A:739-A:856, B:660-B:716, B:739-B:856, C:660-C:716, C:739-C:856 (525) | 1.58 | 4 |

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 1 single-model cluster was found.

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

# 3 Entry composition ⓘ

There is only 1 type of molecule in this entry. The entry contains 8940 atoms, of which 4563 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Transmembrane protein gp41.

| Mol | Chain | Residues | Atoms | | | | | Trace |
|-----|-------|----------|-------|-----|------|-----|-----|-------|
| 1 | A | 175 | Total | C | H | N | O | 0 |
| | | | 2980 | 949 | 1521 | 267 | 243 | |
| 1 | B | 175 | Total | C | H | N | O | 0 |
| | | | 2980 | 949 | 1521 | 267 | 243 | |
| 1 | C | 175 | Total | C | H | N | O | 0 |
| | | | 2980 | 949 | 1521 | 267 | 243 | |

There are 27 discrepancies between the modelled and reference sequences:

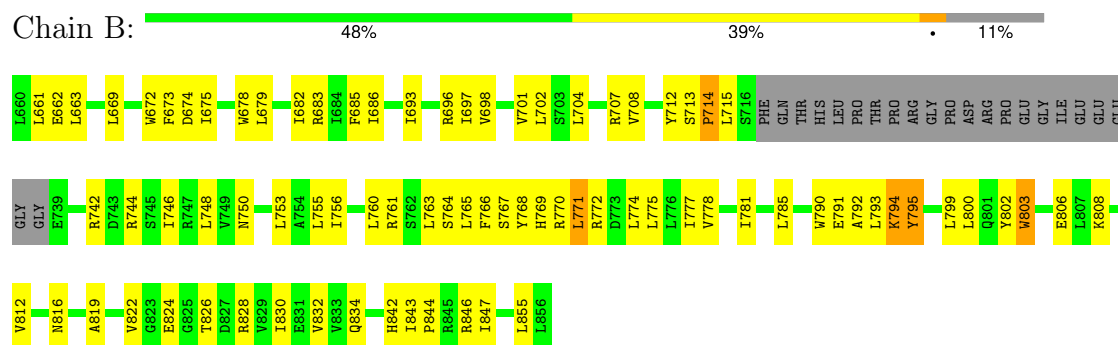| Chain | Residue | Modelled | Actual | Comment | Reference |
|-------|---------|----------|--------|---------|-----------|
| A | 674 | ASP | ASN | conflict | UNP A0A386YSI0 |
| A | 683 | ARG | LYS | conflict | UNP A0A386YSI0 |
| A | 687 | ILE | MET | conflict | UNP A0A386YSI0 |
| A | 691 | SER | GLY | conflict | UNP A0A386YSI0 |
| A | 693 | ILE | VAL | conflict | UNP A0A386YSI0 |
| A | 704 | LEU | ILE | conflict | UNP A0A386YSI0 |
| A | 764 | SER | CYS | engineered mutation | UNP A0A386YSI0 |
| A | 823 | GLY | ALA | engineered mutation | UNP A0A386YSI0 |
| A | 837 | SER | CYS | engineered mutation | UNP A0A386YSI0 |
| B | 674 | ASP | ASN | conflict | UNP A0A386YSI0 |
| B | 683 | ARG | LYS | conflict | UNP A0A386YSI0 |
| B | 687 | ILE | MET | conflict | UNP A0A386YSI0 |
| B | 691 | SER | GLY | conflict | UNP A0A386YSI0 |
| B | 693 | ILE | VAL | conflict | UNP A0A386YSI0 |
| B | 704 | LEU | ILE | conflict | UNP A0A386YSI0 |
| B | 764 | SER | CYS | engineered mutation | UNP A0A386YSI0 |
| B | 823 | GLY | ALA | engineered mutation | UNP A0A386YSI0 |
| B | 837 | SER | CYS | engineered mutation | UNP A0A386YSI0 |
| C | 674 | ASP | ASN | conflict | UNP A0A386YSI0 |
| C | 683 | ARG | LYS | conflict | UNP A0A386YSI0 |
| C | 687 | ILE | MET | conflict | UNP A0A386YSI0 |
| C | 691 | SER | GLY | conflict | UNP A0A386YSI0 |
| C | 693 | ILE | VAL | conflict | UNP A0A386YSI0 |
| C | 704 | LEU | ILE | conflict | UNP A0A386YSI0 |
| C | 764 | SER | CYS | engineered mutation | UNP A0A386YSI0 |
| C | 823 | GLY | ALA | engineered mutation | UNP A0A386YSI0 |
| C | 837 | SER | CYS | engineered mutation | UNP A0A386YSI0 |

# 4 Residue-property plots ⓘ

## 4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Transmembrane protein gp41
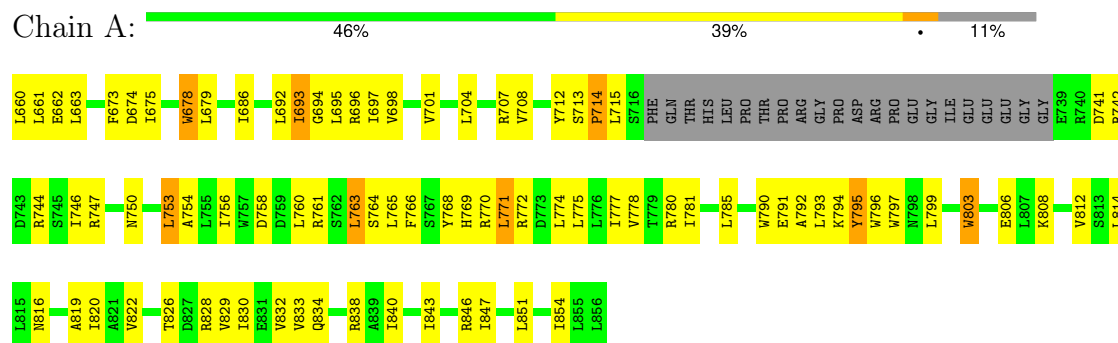


- Molecule 1: Transmembrane protein gp41



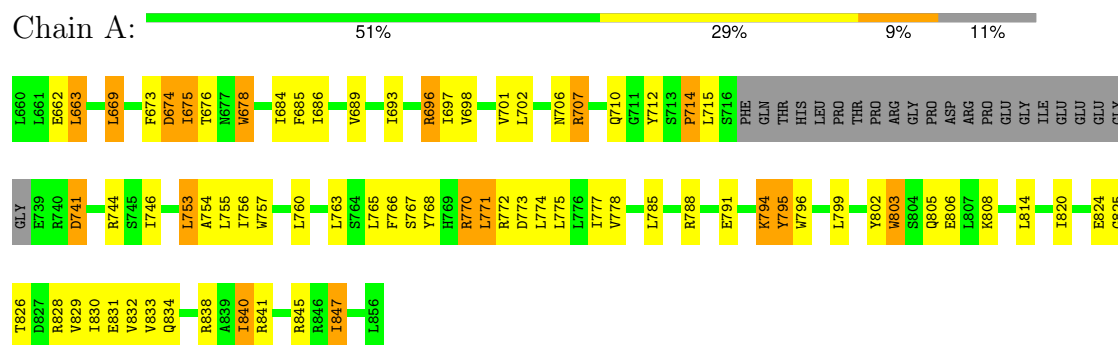- Molecule 1: Transmembrane protein gp41

A821 V822 G823 E824 G825 T826 D827 R828 V829 I830 E831 V832 V833 Q834 R838 A839 I840 I843 I847 L856

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

Colouring as in section 4.1 above.

### 4.2.1 Score per residue for model 1
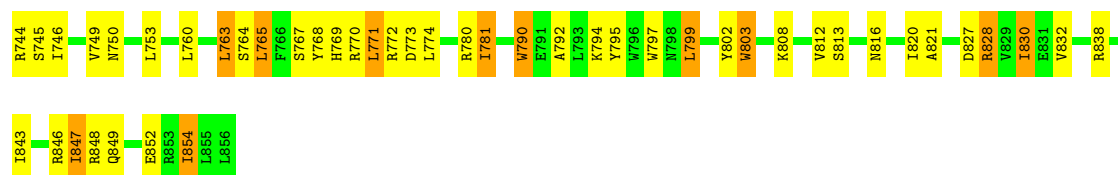
• Molecule 1: Transmembrane protein gp41

Chain A:

51%　　　29%　　　9%　　11%

L660 L661 E662 L663 L669 F673 D674 I675 T676 N677 W678 I684 F685 I686 V689 I693 R696 I697 V698 V701 L702 N706 R707 Q710 G711 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLU ILE GLU GLU GLU GLY

GLY E739 R740 D741 R744 S745 I746 L753 A754 L755 I756 W757 L760 L763 S764 L765 F766 S767 Y768 H769 R770 L771 R772 D773 L774 L775 L776 I777 V778 L785 R788 E791 K794 Y795 W796 L799 Y802 W803 S804 Q805 E806 L807 K808 L814 I820 E824 G825

T826 D827 R828 V829 I830 E831 V832 V833 Q834 R838 A839 I840 R841 R845 R846 I847 L856

• Molecule 1: Transmembrane protein gp41

Chain B:

52%　　　28%　　　9%　　11%

L660 L661 L669 W670 N671 W672 F673 D674 I675 T676 N677 W678 I682 R683 I686 I687 I688 I693 G694 L695 R696 I697 V698 F699 A700 V701 L702 S703 L704 R707 V708 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU

GLU GLY GLY E739 R742 D743 R744 N750 L753 A754 L755 I756 L760 R761 S762 L763 S764 L765 F766 S767 L771 R772 D773 L774 L775 V778 T779 R780 I781 V782 L785 E791 A792 L793 K794 Y795 L799 L800 Q801 Y802 W803 N809 V812 S813 L814 L815 N816 A817 T818

A819 E824 G825 T826 D827 I830 Q834 I843 P844 R845 R846 E852 L855 L856

• Molecule 1: Transmembrane protein gp41

Chain C:

45%　　　34%　　　10%　　11%

L660 L661 E662 D674 I675 W678 L679 W680 Y681 I682 R683 I684 F685 I686 I687 I688 L692 I693 G694 L695 R696 I697 V698 F699 A700 V701 L702 S703 L704 V705 N706 R707 V708 R709 Q710 G711 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY

ILE GLU GLU GLU GLY GLY E739 R740 D741 R744 S745 I746 R747 L748 V749 L753 A754 L755 I756 W757 D758 D759 L760 R761 L765 F766 S767 Y768 H769 R770 L771 L774 L775 R780 I781 V782 F783 L784 L785 W790 E791 A792 L793 K794 Y795 L799 L800 Q801 Y802 W803 S804 Q805

V812 N816 A819 I820 A821 V822 G823 E824 D827 R828 V829 I830 V833 R838 R841 H842 I843 R846 I847 R848 E852 R853 I854 L855 L856

### 4.2.2    Score per residue for model 2
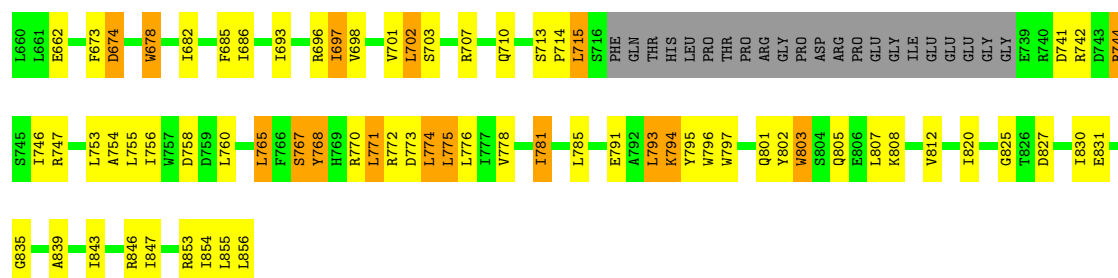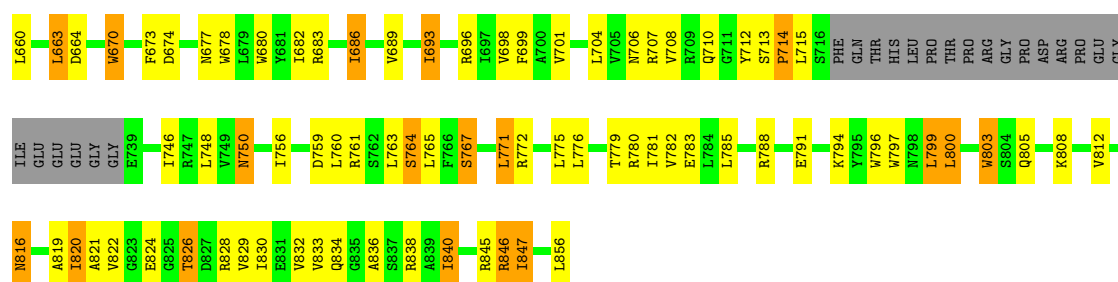
• Molecule 1: Transmembrane protein gp41

Chain A:



• Molecule 1: Transmembrane protein gp41

Chain B:



• Molecule 1: Transmembrane protein gp41

Chain C:



### 4.2.3    Score per residue for model 3

• Molecule 1: Transmembrane protein gp41

Chain A:

R744 S745 I746 V749 N750 L753 L760 L763 S764 L765 F766 S767 Y768 H769 R770 L771 R772 D773 L774 R780 I781 W790 E791 A792 L793 K794 Y795 W796 W797 N798 L799 Y802 W803 K808 V812 S813 N816 I820 A821 D827 R828 V829 I830 E831 V832 R838

I843 R846 I847 R848 Q849 E852 R853 I854 L855 L856

• Molecule 1: Transmembrane protein gp41

Chain B:


53%　　　　27%　　　8%　　11%

L660 L661 E662 F673 D674 W678 I682 F685 I686 I693 R696 I697 V698 V701 L702 S703 R707 Q710 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU GLY GLY E739 R740 D741 R742 D743 R744

S745 I746 R747 L753 A754 L755 I756 W757 D758 D759 L760 L765 F766 S767 Y768 H769 R770 L771 R772 D773 L774 L775 L776 I777 V778 I781 L785 E791 A792 L793 K794 Y795 W796 W797 Q801 Y802 W803 S804 Q805 E806 L807 K808 V812 I820 G825 T826 D827 I830 E831

G835 A839 I843 R846 I847 R853 I854 L855 L856

• Molecule 1: Transmembrane protein gp41

Chain C:


49%　　　　31%　　　9%　　11%

L660 L663 D664 W670 F673 D674 N677 W678 L679 W680 Y681 I682 R683 I686 V689 I693 R696 I697 V698 F699 A700 V701 L704 V705 N706 R707 V708 R709 Q710 G711 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY

ILE GLU GLU GLY GLY E739 I746 R747 L748 V749 N750 I756 D759 L760 R761 S762 L763 S764 L765 F766 S767 L771 R772 L775 L776 T779 R780 I781 V782 E783 L784 L785 R788 E791 K794 Y795 W796 W797 N798 L799 L800 W803 S804 Q805 K808 V812

N816 A819 I820 A821 V822 G823 E824 G825 T826 D827 R828 V829 I830 E831 V832 V833 Q834 G835 A836 S837 R838 A839 I840 R845 R846 I847 L856

### 4.2.4　Score per residue for model 4 (medoid)

• Molecule 1: Transmembrane protein gp41

Chain A:


56%　　　　24%　　　9%　·　11%

L660 L663 F673 D674 W678 I682 R683 I686 S691 I692 I693 G694 L695 R696 I697 V698 V701 L702 S703 L704 V705 N706 R707 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU GLU GLY GLY E739 R740

D741 R742 D743 R744 S745 I746 R747 L748 V749 N750 L753 A754 L755 I756 W757 L760 L763 S764 L765 F766 L771 R772 D773 L774 L775 L776 R780 I781 V782 L785 W790 E791 A792 L793 K794 Y795 W803 K808 V812 A819 E824 G825 T826 D827 R828 V829 I830

R838 A839 I847 L851 I854 L855 L856
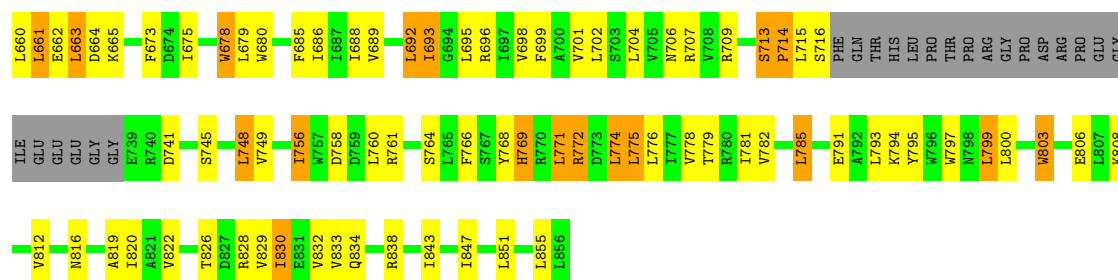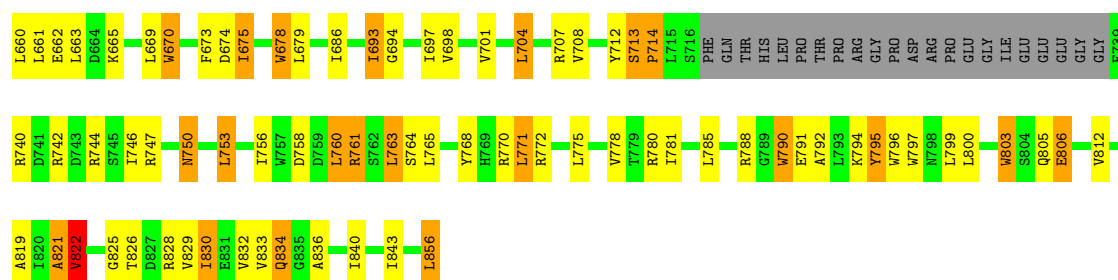
• Molecule 1: Transmembrane protein gp41

Chain B:


49%　　　　31%　　　8%　·　11%

• Molecule 1: Transmembrane protein gp41
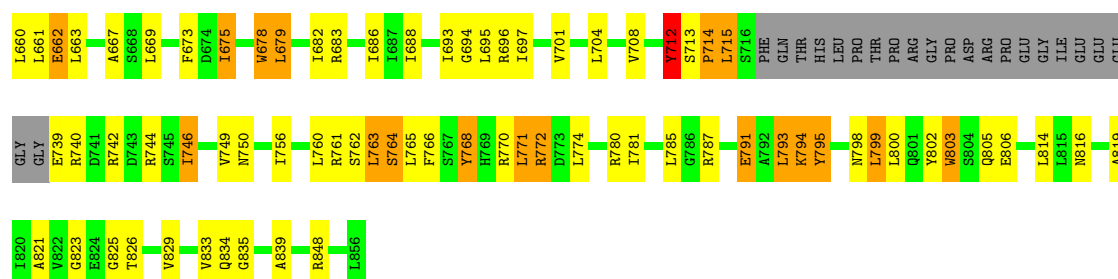
Chain C:



### 4.2.5 Score per residue for model 5
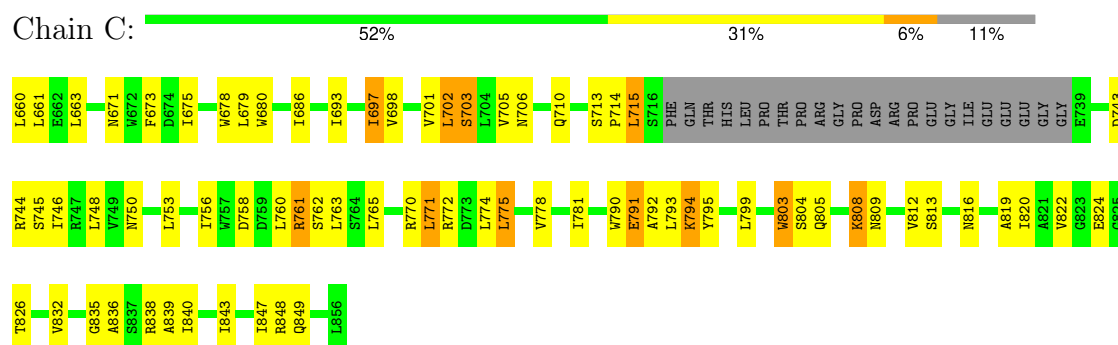
• Molecule 1: Transmembrane protein gp41

Chain A:



• Molecule 1: Transmembrane protein gp41

Chain B:

• Molecule 1: Transmembrane protein gp41
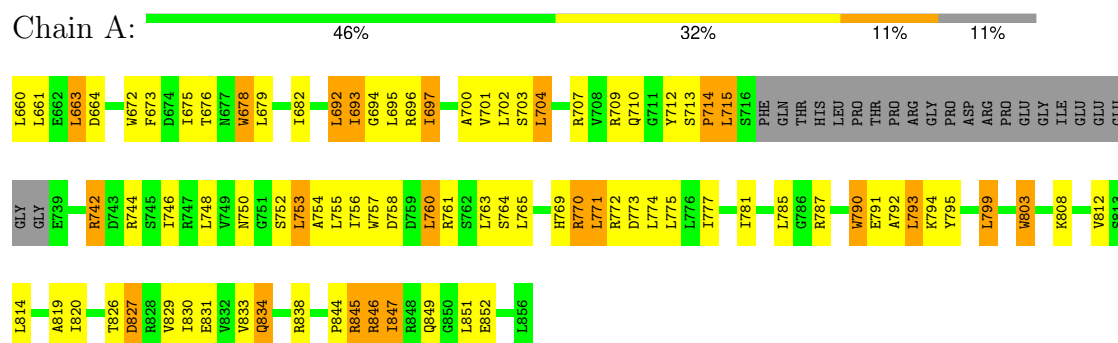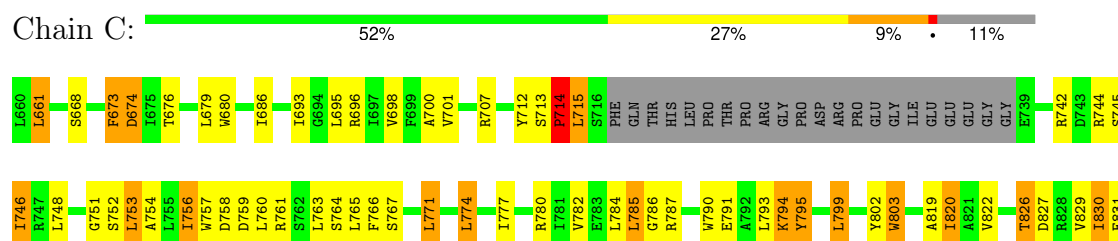
Chain C:



## 4.2.6　Score per residue for model 6
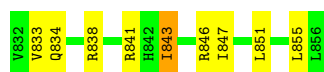
• Molecule 1: Transmembrane protein gp41
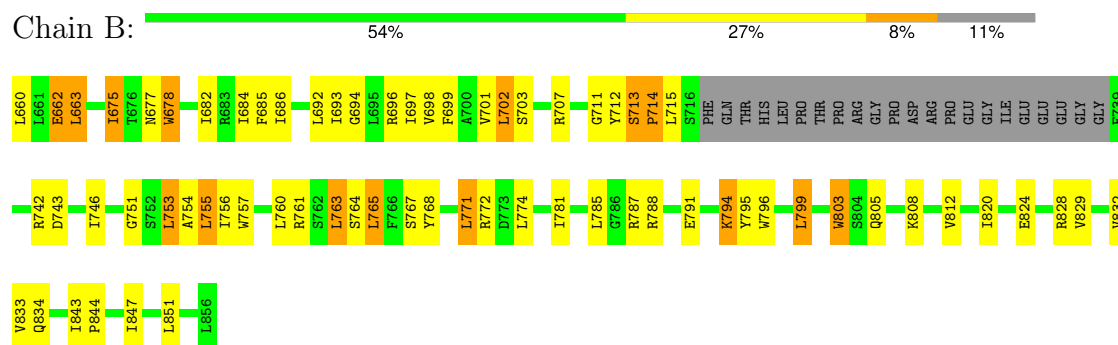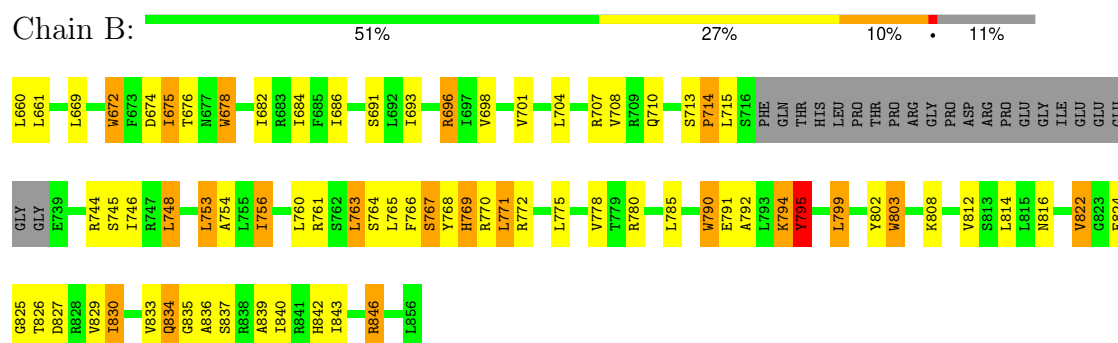
Chain A:



• Molecule 1: Transmembrane protein gp41

Chain B:



• Molecule 1: Transmembrane protein gp41

Chain C:

V832 V833 Q834 R838 R841 H842 I843 R846 I847 L851 L855 L856

#### 4.2.7 Score per residue for model 7

• Molecule 1: Transmembrane protein gp41

Chain A:

53%    27%    9%    11%

L660 L661 E662 L663 D664 L669 I675 W678 L679 I686 I693 G694 L695 V698 V701 L702 V705 N706 R707 V708 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU GLU GLY GLY E739 R740 D741 R742

R747 N750 G751 S752 L753 A754 L755 I756 W757 D758 D759 L760 L763 S764 L765 F766 S767 Y768 H769 R770 L771 R772 D773 L774 L775 L776 I777 V778 T779 R780 I781 W790 E791 A792 L793 K794 Y795 W796 W797 N798 L799 Y802 W803 E806 L807 K808 L815 N816 A819 I820 T826

D827 R828 V829 I830 E831 R838 R845 R846 I847 E852 L856

• Molecule 1: Transmembrane protein gp41

Chain B:

54%    27%    8%    11%

L660 L661 E662 L663 I675 T676 N677 W678 I682 R683 I684 F685 I686 L692 I693 G694 L695 R696 I697 V698 F699 A700 V701 L702 S703 R707 G711 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU GLU GLY GLY E739

R742 D743 I746 G751 S752 L753 A754 L755 I756 W757 L760 R761 S762 L763 S764 L765 F766 S767 Y768 L771 R772 D773 L774 I781 L785 G786 R787 R788 E791 K794 Y795 W796 L799 W803 S804 Q805 K808 V812 I820 E824 R828 V829 V832

V833 Q834 I843 P844 I847 L851 L856

• Molecule 1: Transmembrane protein gp41

Chain C:

57%    23%    8%    •    11%

L660 L663 A667 T676 N677 W678 L679 W680 R683 I684 S691 R696 I697 V698 V701 L702 S703 L704 V705 N706 Q710 G711 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU GLU GLY GLY E739 R740

D743 R744 S745 I746 R747 L748 V749 N750 L753 A754 L755 I756 L760 S764 L765 F766 S767 Y768 L771 L774 T779 V782 L785 W790 E791 A792 L793 K794 Y795 W796 L799 L800 Q801 Y802 W803 A819 V822 T826 I830 Q834 G835 A836 I840 R841

H842 I843 I847 R848 I854 L855 L856

#### 4.2.8 Score per residue for model 8

• Molecule 1: Transmembrane protein gp41
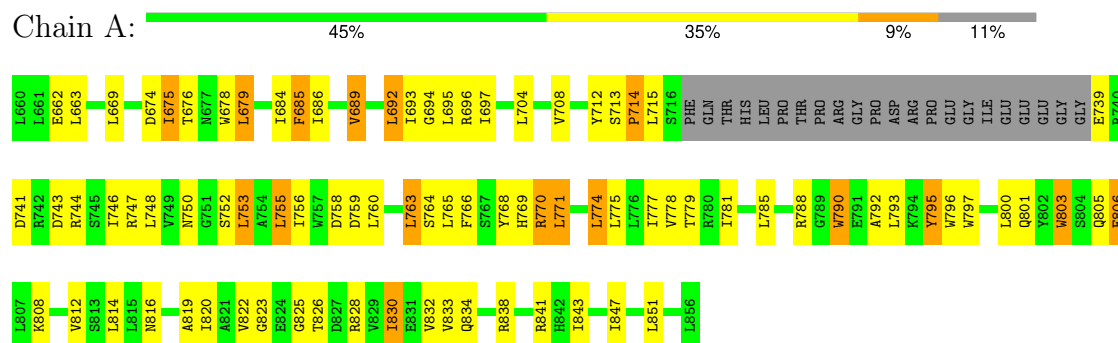
Chain A:



• Molecule 1: Transmembrane protein gp41
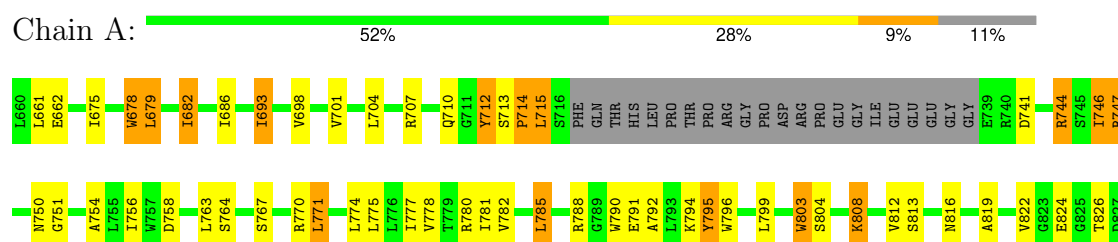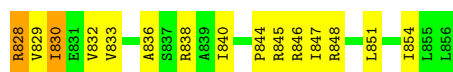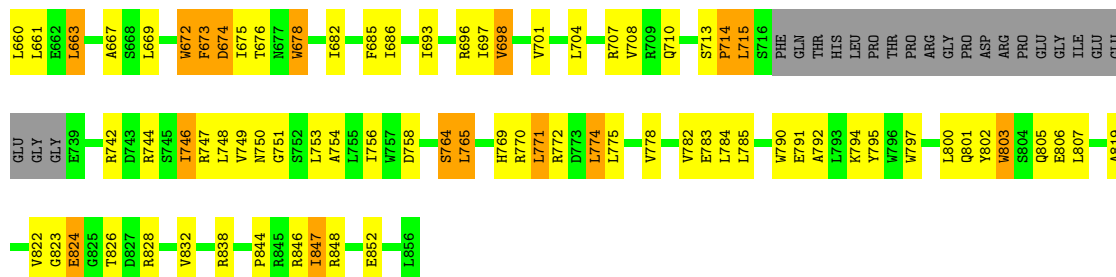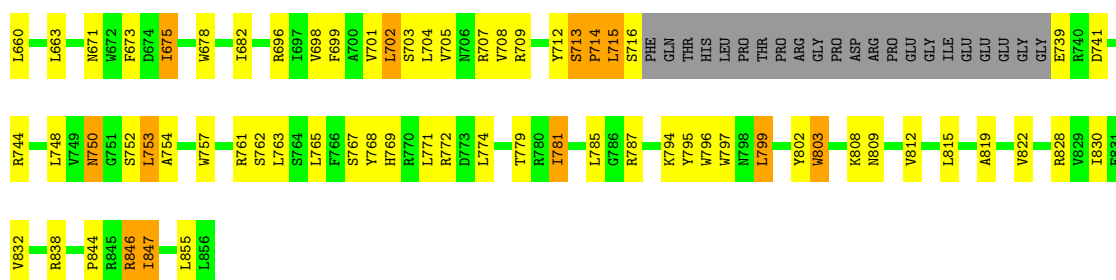
Chain B:



• Molecule 1: Transmembrane protein gp41

Chain C:



## 4.2.9 Score per residue for model 9

• Molecule 1: Transmembrane protein gp41

Chain A:

• Molecule 1: Transmembrane protein gp41
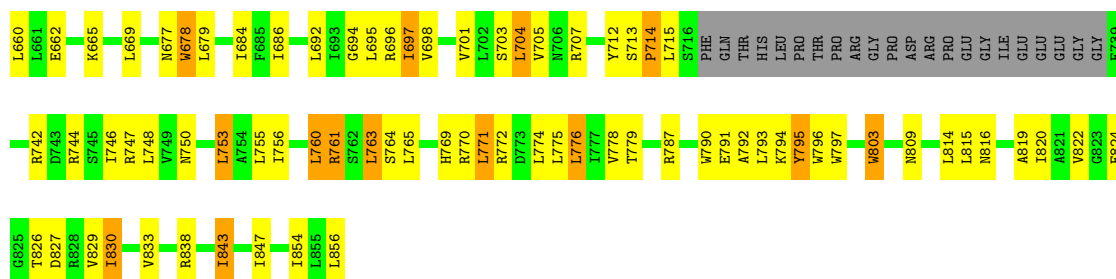
Chain B:



• Molecule 1: Transmembrane protein gp41

Chain C:



### 4.2.10 Score per residue for model 10

• Molecule 1: Transmembrane protein gp41

Chain A:



• Molecule 1: Transmembrane protein gp41

Chain B:

GLU GLY GLY E739 R740 D741 R742 D743 R744 S745 I746 R747 L748 V749 L753 A754 L755 I756 W757 D758 D759 L760 R761 S762 L763 S764 L765 F766 S767 Y768 H769 R770 L771 R772 D773 L774 L775 V778 T779 R780 L785 W790 E791 A792 L793 K794 Y795 W796 N797 N798 L799 W803 E806 L807

K808 V812 L815 T818 A819 I820 A821 V822 G823 E824 G825 T826 D827 R828 V829 I830 E831 V832 V833 Q834 G835 A839 H842 R845 R846 I847 R848 L851 E852 R853 I854 L855 L856

• Molecule 1: Transmembrane protein gp41

Chain C: 54% 23% 11% · 11%

L660 L661 E662 L663 F673 D674 I675 W678 I682 R683 I686 I687 I693 G694 L695 R696 I697 V698 F699 A700 V701 L702 S703 L704 V705 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU GLU GLY E739 D743

I746 R747 L748 V749 N750 L760 R761 S762 L763 S764 L765 F766 S767 Y768 H769 R770 L771 R772 D773 L774 L775 V778 I781 L785 R788 L793 K794 Y795 W796 W797 N798 L799 W803 S804 Q805 S810 N816 A819 V822 G823 E824 G825 T826 D827 R828 V829 I830 E831

V832 R841 R845 R846 I847 R848 Q849 L856

### 4.2.11 Score per residue for model 11

• Molecule 1: Transmembrane protein gp41

Chain A: 49% 30% 8% · 11%

L660 L661 E662 F673 D674 N677 W678 L679 W680 I693 G694 L695 I697 V698 F699 A700 V701 L702 S703 L704 V705 N706 R707 Q710 G711 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU GLU GLY E739 R740 D741

R742 I746 R747 L748 V749 N750 L753 I756 W757 D758 D759 L760 S764 L765 H769 R770 L771 R772 D773 L774 L775 L776 I777 V778 T779 I781 V782 E783 L784 L785 W790 E791 A792 L793 K794 Y795 W796 W797 N798 L799 L800 W803 E806 L814 A819 V822 G823 E824

G825 T826 D827 R828 V832 V833 Q834 G835 A836 I840 R845 R846 I847 R848 L855 L856

• Molecule 1: Transmembrane protein gp41

Chain B: 50% 26% 13% 11%

L660 L663 S668 D674 I675 T676 N677 W678 Y681 I682 R683 I688 L692 I693 R696 I697 V698 V701 L702 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU GLU GLY E739 R742 D743 R744

S745 I746 R747 L748 V749 N750 L753 A754 L755 I756 W757 L760 R761 S762 L763 S764 L765 F766 H769 R770 L771 R772 D773 L774 L775 L776 I777 V778 T779 R780 I781 E791 A792 Y795 W796 W797 N798 L799 Y802 W803 S804 Q805 E806 L807 K808 V812 L815 A819 I820 T826

D827 I830 E831 Q834 G835 A836 S837 I840 R841 H842 I843 P844 R845 R846 I847 E852 L855 L856

• Molecule 1: Transmembrane protein gp41

Chain C: 50% 30% 8% 11%

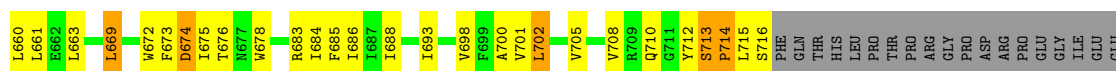### 4.2.12 Score per residue for model 12
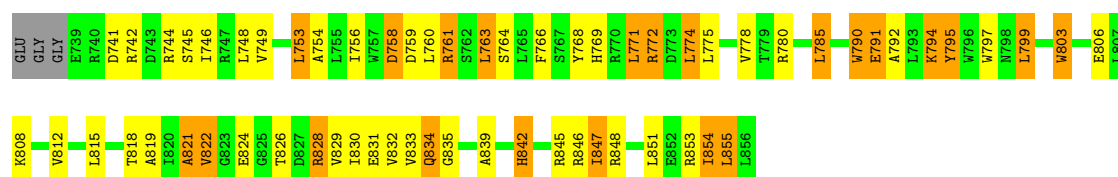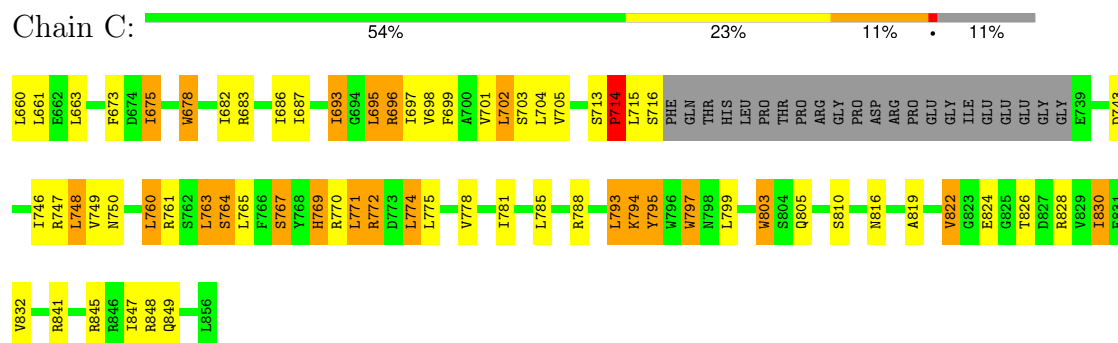
• Molecule 1: Transmembrane protein gp41

Chain A: 51% 32% 6% 11%

• Molecule 1: Transmembrane protein gp41

Chain B: 49% 30% 10% 11%

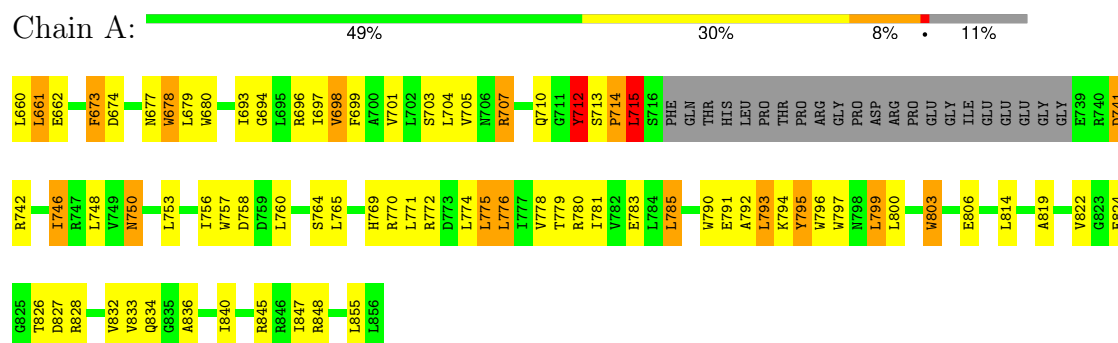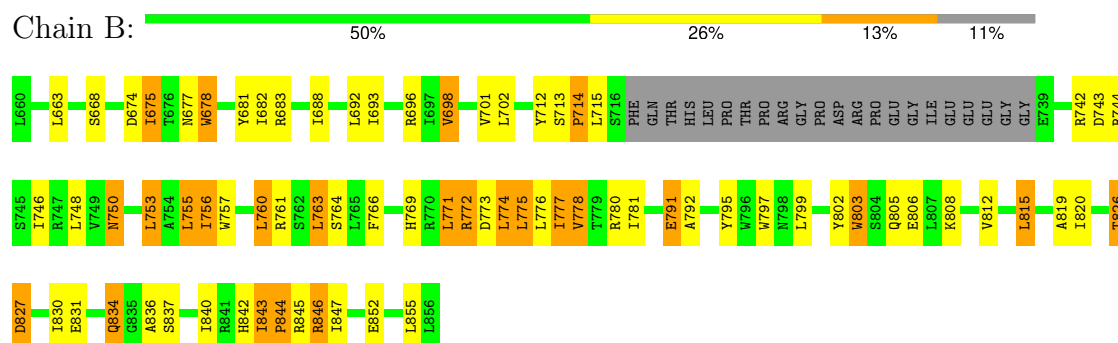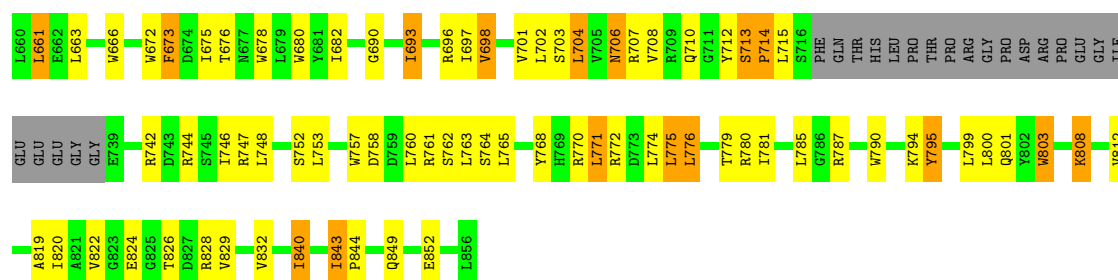• Molecule 1: Transmembrane protein gp41

Chain C: 50% 28% 11% 11%

### 4.2.13 Score per residue for model 13

• Molecule 1: Transmembrane protein gp41

Chain A:



• Molecule 1: Transmembrane protein gp41

Chain B:



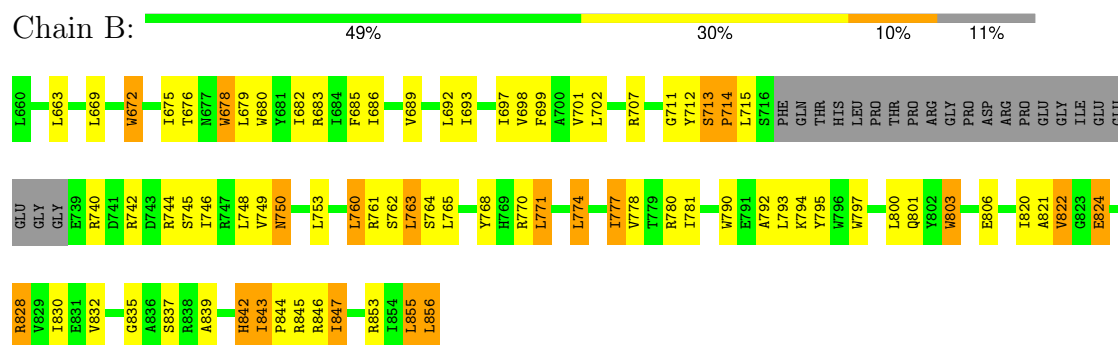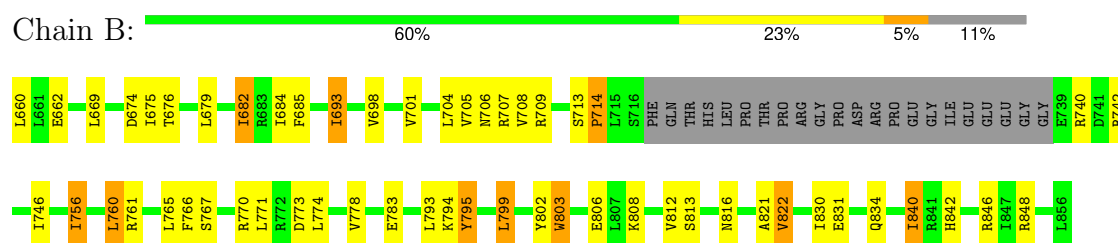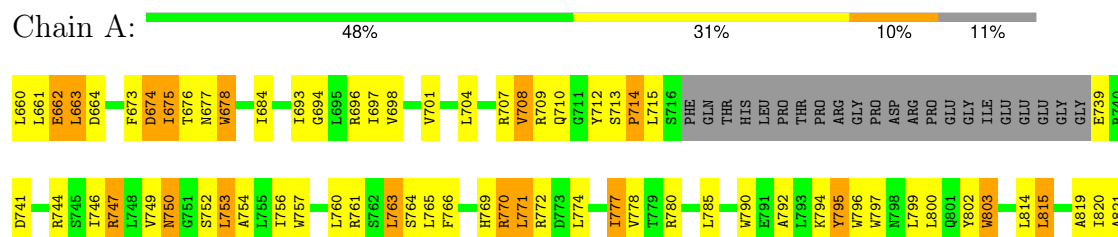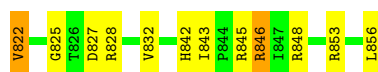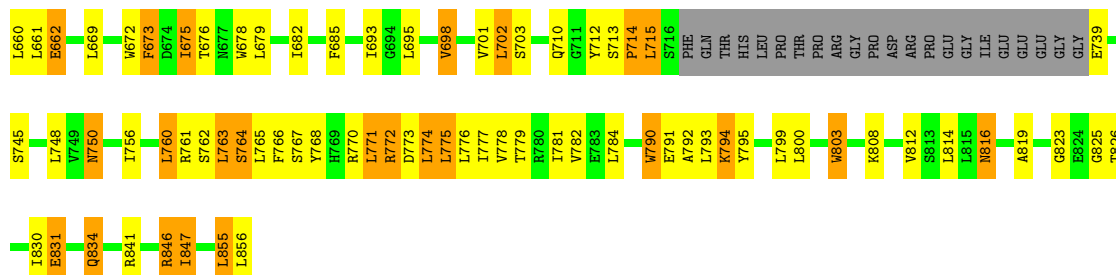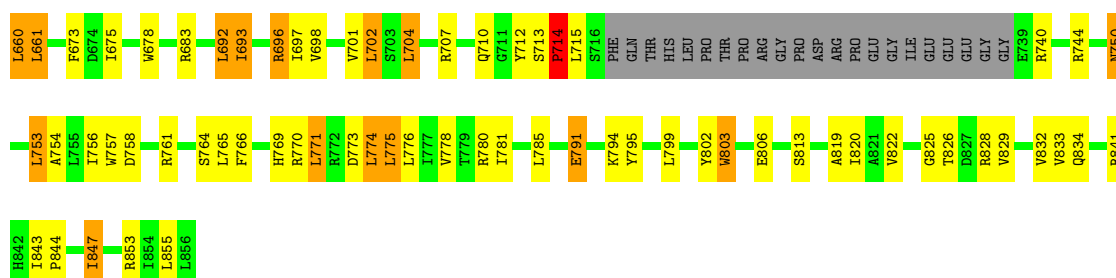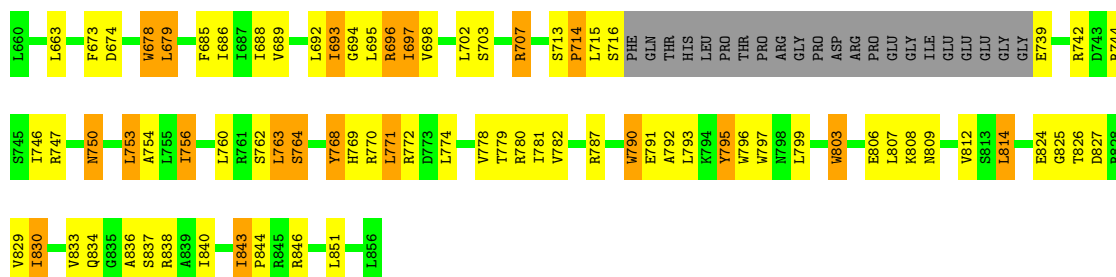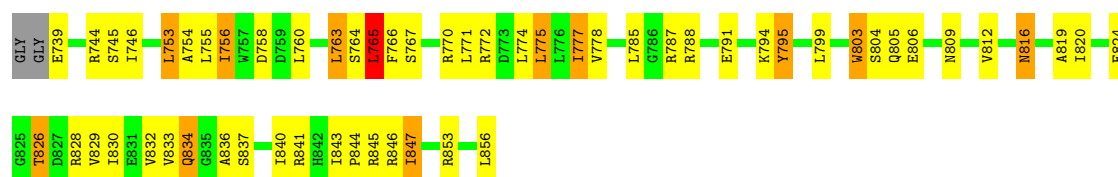• Molecule 1: Transmembrane protein gp41

Chain C:



### 4.2.14 Score per residue for model 14

• Molecule 1: Transmembrane protein gp41

Chain A:

V822 G825 T826 D827 R828 V832 H842 I843 P844 R845 R846 I847 R848 R853 L856

• Molecule 1: Transmembrane protein gp41

Chain B:　　　51%　　　26%　　　12%　　　11%

L660 L661 E662 L669 W672 F673 D674 I675 T676 N677 W678 L679 I682 F685 I693 G694 L695 V698 V701 L702 S703 Q710 G711 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP PRO GLU GLY ILE GLU GLU GLY E739

S745 L748 V749 N750 I756 L760 R761 S762 L763 S764 L765 F766 S767 Y768 H769 R770 L771 R772 D773 L774 L775 L776 I777 V778 T779 R780 I781 V782 E783 L784 W790 A792 L793 K794 Y795 L799 L800 W803 K808 V812 S813 L814 L815 N816 A819 G823 E824 G825 T826

I830 E831 Q834 R841 R846 I847 L855 L856

• Molecule 1: Transmembrane protein gp41

Chain C:　　　55%　　　26%　　　8%　・　11%

L660 L661 F673 D674 I675 W678 R683 L692 I693 R696 I697 V698 V701 L702 S703 L704 R707 Q710 G711 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY ASP ARG GLU GLY ILE GLU GLU GLY GLY E739 R740 R744 N750

L753 A754 L755 I756 W757 D758 R761 S764 L765 F766 H769 R770 L771 R772 D773 L774 L775 L776 I777 V778 T779 R780 I781 L785 E791 K794 Y795 L799 Y802 W803 E806 S813 A819 I820 A821 V822 G825 T826 D827 R828 V829 V832 V833 Q834 R841

H842 I843 P844 I847 R853 I854 L855 L856

## 4.2.15　Score per residue for model 15

• Molecule 1: Transmembrane protein gp41

Chain A:　　　49%　　　30%　　　10%　　　11%

L660 L663 F673 D674 W678 L679 F685 I686 I687 I688 V689 L692 I693 G694 L695 R696 I697 V698 L702 S703 R707 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU GLY E739 R742 D743 R744

S745 I746 R747 N750 L753 A754 L755 I756 L760 R761 S762 L763 S764 Y768 H769 R770 L771 R772 D773 L774 V778 T779 R780 I781 V782 R787 W790 E791 A792 L793 K794 Y795 W796 W797 N798 L799 W803 E806 L807 K808 N809 V812 S813 L814 E824 G825 T826 D827 R828

V829 I830 V833 Q834 G835 A836 S837 R838 A839 I840 I843 P844 R845 R846 L851 L856

• Molecule 1: Transmembrane protein gp41

Chain B:　　　47%　　　33%　　　9%　・　11%

L660 L663 D664 A667 W672 F673 N677 W678 I682 R683 I686 L692 I693 G694 L695 R696 I697 V698 F699 A700 V701 L702 S703 L704 V705 N706 R707 V708 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU GLU

GLY GLY E739 R744 S745 I746 L753 A754 L755 I756 W757 D758 D759 L760 L763 S764 L765 F766 S767 R770 L771 R772 D773 L774 L775 L776 I777 V778 L785 G786 R787 R788 E791 K794 Y795 L799 W803 S804 Q805 E806 N809 V812 N816 A819 I820 E824

G825 T826 D827 R828 V829 I830 E831 V832 V833 Q834 G835 A836 S837 I840 R841 H842 I843 P844 R845 R846 I847 R853 L856

• Molecule 1: Transmembrane protein gp41

Chain C:



54%     27%     6% •   11%

L660 L661 E662 L663 N671 W672 F673 D674 I675 W678 L679 W680 Y681 I682 R683 I693 G694 L695 V698 V701 L702 R707 Y712 S713 P714 L715 S716 PHE GLN THR HIS LEU PRO THR PRO ARG GLY PRO ASP ARG PRO GLU GLY ILE GLU GLU GLU GLY GLY E739 R744

R747 L748 V749 N750 L753 A754 L755 I756 W757 L760 S767 Y768 L771 R772 D773 L774 L775 L776 I777 V778 T779 R780 I781 V782 L785 G786 R787 W790 E791 A792 L793 K794 Y795 L799 Y802 W803 E806 N809 A819 I820 A821 V822 G823 E824 G825 T826 D827 R828

V832 V833 Q834 I843 R848 L856

# 5 Refinement protocol and experimental data overview ⓘ

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

Of the 150 calculated structures, 15 were deposited, based on the following criterion: *structures with the lowest energy.*

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

| Software name | Classification | Version |
|---|---|---|
| X-PLOR NIH | refinement | |
| X-PLOR NIH | structure calculation | |

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

| Chemical shift file(s) | working_cs.cif |
|---|---|
| Number of chemical shift lists | 1 |
| Total number of shifts | 657 |
| Number of shifts mapped to atoms | 622 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 35 |
| Number of shifts with mapping warnings | 0 |
| Assignment completeness (well-defined parts) | 8% |

# 6 Model quality ⓘ

## 6.1 Standard geometry ⓘ

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

| Mol | Chain | Bond lengths | | Bond angles | |
|---|---|---|---|---|---|
| | | RMSZ | #Z>5 | RMSZ | #Z>5 |
| 1 | A | 0.79±0.01 | 0±0/1490 ( 0.0± 0.0%) | 0.97±0.01 | 0±1/2021 ( 0.0± 0.0%) |
| 1 | B | 0.79±0.01 | 0±0/1490 ( 0.0± 0.0%) | 0.96±0.01 | 0±1/2021 ( 0.0± 0.0%) |
| 1 | C | 0.79±0.01 | 0±0/1490 ( 0.0± 0.0%) | 0.96±0.01 | 0±0/2021 ( 0.0± 0.0%) |
| All | All | 0.79 | 0/67050 ( 0.0%) | 0.97 | 12/90945 ( 0.0%) |

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

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

There are no bond-length outliers.

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

| Mol | Chain | Res | Type | Atoms | Z | Observed($^o$) | Ideal($^o$) | Models | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Worst | Total |
| 1 | A | 795 | TYR | CB-CG-CD1 | -7.20 | 116.68 | 121.00 | 4 | 1 |
| 1 | B | 795 | TYR | CB-CG-CD1 | -6.27 | 117.24 | 121.00 | 6 | 1 |
| 1 | A | 707 | ARG | NE-CZ-NH2 | 5.66 | 123.13 | 120.30 | 1 | 2 |
| 1 | A | 685 | PHE | CB-CG-CD2 | -5.65 | 116.85 | 120.80 | 15 | 1 |
| 1 | C | 790 | TRP | CD1-NE1-CE2 | 5.44 | 113.89 | 109.00 | 7 | 1 |
| 1 | B | 712 | TYR | CB-CG-CD2 | -5.33 | 117.80 | 121.00 | 5 | 1 |
| 1 | B | 795 | TYR | CB-CG-CD2 | -5.29 | 117.83 | 121.00 | 8 | 2 |
| 1 | C | 761 | ARG | NE-CZ-NH2 | 5.11 | 122.85 | 120.30 | 5 | 1 |
| 1 | A | 795 | TYR | CB-CG-CD2 | 5.09 | 124.05 | 121.00 | 4 | 1 |
| 1 | C | 696 | ARG | NE-CZ-NH2 | 5.01 | 122.80 | 120.30 | 14 | 1 |

There are no chirality outliers.

All unique planar outliers are listed below.

| Mol | Chain | Res | Type | Group | Models (Total) |
|-----|-------|-----|------|-------|----------------|
| 1 | B | 770 | ARG | Sidechain | 1 |

## 6.2  Too-close contacts ⓘ

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

| Mol | Chain | Non-H | H(model) | H(added) | Clashes |
|-----|-------|-------|----------|----------|---------|
| 1 | A | 1459 | 1521 | 1515 | 55±5 |
| 1 | B | 1459 | 1521 | 1515 | 52±8 |
| 1 | C | 1459 | 1521 | 1515 | 48±6 |
| All | All | 65655 | 68445 | 68175 | 1955 |

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 15.

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

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models Worst | Total |
|--------|--------|----------|-------------|--------------|-------|
| 1:A:746:ILE:HG23 | 1:C:781:ILE:HD12 | 1.00 | 1.27 | 11 | 1 |
| 1:C:819:ALA:HB3 | 1:C:826:THR:HG21 | 0.97 | 1.35 | 14 | 1 |
| 1:B:819:ALA:HB1 | 1:B:826:THR:HG23 | 0.90 | 1.41 | 1 | 1 |
| 1:A:686:ILE:HD11 | 1:C:686:ILE:HG21 | 0.90 | 1.43 | 4 | 4 |
| 1:B:669:LEU:HD13 | 1:B:676:THR:HG21 | 0.89 | 1.43 | 8 | 1 |
| 1:A:781:ILE:HG21 | 1:B:746:ILE:HG23 | 0.84 | 1.46 | 9 | 2 |
| 1:A:663:LEU:HD21 | 1:B:660:LEU:HD23 | 0.83 | 1.49 | 13 | 1 |
| 1:A:686:ILE:HG21 | 1:B:686:ILE:HD12 | 0.82 | 1.50 | 9 | 1 |
| 1:A:753:LEU:HD13 | 1:A:754:ALA:N | 0.82 | 1.89 | 14 | 5 |
| 1:C:695:LEU:O | 1:C:698:VAL:HG22 | 0.79 | 1.78 | 12 | 1 |
| 1:B:774:LEU:HD13 | 1:B:777:ILE:HD12 | 0.79 | 1.52 | 6 | 2 |
| 1:A:799:LEU:HD13 | 1:B:756:ILE:HD11 | 0.78 | 1.54 | 14 | 2 |
| 1:A:763:LEU:HD23 | 1:A:764:SER:N | 0.78 | 1.93 | 5 | 4 |
| 1:C:753:LEU:HD13 | 1:C:754:ALA:N | 0.76 | 1.93 | 7 | 4 |
| 1:A:760:LEU:HD13 | 1:A:761:ARG:N | 0.76 | 1.96 | 12 | 4 |
| 1:C:713:SER:O | 1:C:714:PRO:O | 0.75 | 2.04 | 11 | 10 |
| 1:C:775:LEU:HD13 | 1:C:776:LEU:N | 0.75 | 1.96 | 11 | 2 |
| 1:B:698:VAL:O | 1:B:701:VAL:HG22 | 0.74 | 1.82 | 15 | 13 |
| 1:C:715:LEU:HD13 | 1:C:716:SER:N | 0.74 | 1.97 | 2 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:763:LEU:HD22 | 1:A:764:SER:N | 0.74 | 1.97 | 12 | 8 |
| 1:B:771:LEU:HD23 | 1:B:772:ARG:N | 0.74 | 1.98 | 14 | 2 |
| 1:C:678:TRP:O | 1:C:682:ILE:HD12 | 0.73 | 1.83 | 8 | 1 |
| 1:A:819:ALA:O | 1:A:822:VAL:HG12 | 0.73 | 1.83 | 10 | 1 |
| 1:A:698:VAL:O | 1:A:701:VAL:HG22 | 0.73 | 1.84 | 12 | 11 |
| 1:C:698:VAL:O | 1:C:701:VAL:HG22 | 0.73 | 1.84 | 2 | 13 |
| 1:A:713:SER:O | 1:A:714:PRO:O | 0.73 | 2.06 | 7 | 8 |
| 1:C:715:LEU:HD13 | 1:C:715:LEU:O | 0.73 | 1.83 | 7 | 2 |
| 1:A:819:ALA:HB3 | 1:A:827:ASP:OD2 | 0.72 | 1.84 | 10 | 1 |
| 1:C:819:ALA:O | 1:C:822:VAL:HG22 | 0.72 | 1.84 | 9 | 7 |
| 1:C:771:LEU:HD22 | 1:C:772:ARG:N | 0.72 | 1.99 | 10 | 1 |
| 1:B:771:LEU:HD22 | 1:B:772:ARG:N | 0.72 | 1.98 | 5 | 1 |
| 1:A:705:VAL:HG11 | 1:A:748:LEU:HD12 | 0.72 | 1.60 | 11 | 1 |
| 1:C:774:LEU:HD13 | 1:C:775:LEU:N | 0.72 | 1.99 | 12 | 1 |
| 1:C:753:LEU:HD13 | 1:C:754:ALA:H | 0.72 | 1.45 | 7 | 3 |
| 1:B:777:ILE:HD12 | 1:B:778:VAL:N | 0.72 | 2.00 | 14 | 1 |
| 1:B:763:LEU:O | 1:B:774:LEU:HD13 | 0.71 | 1.84 | 1 | 1 |
| 1:B:822:VAL:HG12 | 1:B:826:THR:HG22 | 0.71 | 1.60 | 8 | 1 |
| 1:C:704:LEU:O | 1:C:708:VAL:HG23 | 0.71 | 1.85 | 13 | 4 |
| 1:B:795:TYR:CG | 1:C:756:ILE:HG21 | 0.71 | 2.21 | 15 | 2 |
| 1:A:750:ASN:ND2 | 1:C:785:LEU:HD22 | 0.71 | 2.01 | 3 | 3 |
| 1:B:763:LEU:HD22 | 1:B:764:SER:N | 0.71 | 2.01 | 12 | 6 |
| 1:B:795:TYR:CD2 | 1:C:756:ILE:HG21 | 0.71 | 2.21 | 15 | 1 |
| 1:A:746:ILE:HG21 | 1:C:781:ILE:CG2 | 0.71 | 2.15 | 1 | 4 |
| 1:B:764:SER:CB | 1:B:771:LEU:HD12 | 0.71 | 2.16 | 10 | 3 |
| 1:B:781:ILE:CG2 | 1:C:746:ILE:HG21 | 0.71 | 2.16 | 12 | 2 |
| 1:C:748:LEU:HD13 | 1:C:749:VAL:N | 0.70 | 2.01 | 4 | 2 |
| 1:A:693:ILE:HD13 | 1:A:694:GLY:N | 0.70 | 2.01 | 3 | 1 |
| 1:B:777:ILE:HD13 | 1:B:778:VAL:N | 0.70 | 2.01 | 12 | 3 |
| 1:B:763:LEU:O | 1:B:774:LEU:HD21 | 0.70 | 1.87 | 2 | 1 |
| 1:A:707:ARG:CB | 1:C:704:LEU:HD11 | 0.70 | 2.16 | 4 | 1 |
| 1:C:663:LEU:HD13 | 1:C:664:ASP:N | 0.70 | 2.02 | 4 | 3 |
| 1:A:764:SER:CB | 1:A:771:LEU:HD22 | 0.70 | 2.16 | 13 | 1 |
| 1:A:746:ILE:HG21 | 1:C:781:ILE:HG23 | 0.69 | 1.64 | 15 | 3 |
| 1:B:760:LEU:O | 1:B:760:LEU:HD22 | 0.69 | 1.87 | 11 | 7 |
| 1:A:771:LEU:HD22 | 1:A:772:ARG:N | 0.69 | 2.02 | 15 | 1 |
| 1:A:819:ALA:HB1 | 1:A:826:THR:CG2 | 0.69 | 2.17 | 9 | 1 |
| 1:B:667:ALA:HB2 | 1:C:660:LEU:HD11 | 0.69 | 1.63 | 2 | 1 |
| 1:B:715:LEU:HD12 | 1:B:716:SER:N | 0.69 | 2.02 | 4 | 1 |
| 1:B:715:LEU:HD22 | 1:B:715:LEU:O | 0.69 | 1.87 | 9 | 2 |
| 1:B:797:TRP:CG | 1:B:847:ILE:HD11 | 0.69 | 2.23 | 12 | 1 |

*Continued from previous page...*

| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:777:ILE:HD13 | 1:A:778:VAL:N | 0.69 | 2.03 | 14 | 1 |
| 1:A:756:ILE:HD11 | 1:C:796:TRP:CD1 | 0.69 | 2.22 | 7 | 1 |
| 1:B:751:GLY:O | 1:C:715:LEU:HD12 | 0.69 | 1.87 | 7 | 1 |
| 1:B:795:TYR:CB | 1:C:756:ILE:HG21 | 0.69 | 2.18 | 14 | 2 |
| 1:A:685:PHE:O | 1:A:689:VAL:HG22 | 0.69 | 1.88 | 8 | 1 |
| 1:A:799:LEU:CD1 | 1:B:756:ILE:HD11 | 0.69 | 2.18 | 14 | 1 |
| 1:C:771:LEU:HD13 | 1:C:772:ARG:H | 0.69 | 1.47 | 4 | 1 |
| 1:B:713:SER:O | 1:B:714:PRO:O | 0.68 | 2.11 | 10 | 11 |
| 1:B:760:LEU:HD13 | 1:B:761:ARG:N | 0.68 | 2.04 | 14 | 5 |
| 1:C:771:LEU:H | 1:C:771:LEU:HD23 | 0.68 | 1.47 | 15 | 2 |
| 1:A:715:LEU:O | 1:A:715:LEU:HD13 | 0.68 | 1.89 | 15 | 3 |
| 1:C:819:ALA:O | 1:C:822:VAL:HG12 | 0.68 | 1.89 | 11 | 3 |
| 1:A:781:ILE:HD13 | 1:B:746:ILE:CG1 | 0.68 | 2.17 | 3 | 1 |
| 1:A:781:ILE:HG21 | 1:B:746:ILE:CG2 | 0.68 | 2.17 | 9 | 3 |
| 1:A:660:LEU:O | 1:C:663:LEU:HD22 | 0.68 | 1.87 | 5 | 1 |
| 1:A:771:LEU:H | 1:A:771:LEU:HD13 | 0.68 | 1.48 | 15 | 8 |
| 1:B:753:LEU:HD13 | 1:B:754:ALA:N | 0.68 | 2.04 | 7 | 2 |
| 1:C:763:LEU:HD22 | 1:C:764:SER:N | 0.68 | 2.04 | 10 | 1 |
| 1:A:756:ILE:O | 1:A:760:LEU:HD12 | 0.68 | 1.88 | 12 | 3 |
| 1:A:685:PHE:O | 1:A:689:VAL:HG23 | 0.68 | 1.88 | 1 | 3 |
| 1:B:751:GLY:CA | 1:C:715:LEU:HD11 | 0.68 | 2.19 | 2 | 1 |
| 1:B:669:LEU:HD13 | 1:B:669:LEU:O | 0.67 | 1.89 | 1 | 2 |
| 1:B:686:ILE:HG21 | 1:C:686:ILE:HD11 | 0.67 | 1.67 | 2 | 2 |
| 1:A:757:TRP:CZ3 | 1:B:715:LEU:HD13 | 0.67 | 2.24 | 4 | 1 |
| 1:B:775:LEU:O | 1:B:775:LEU:HD22 | 0.67 | 1.89 | 11 | 2 |
| 1:B:803:TRP:CH2 | 1:C:760:LEU:HD22 | 0.67 | 2.23 | 4 | 1 |
| 1:B:852:GLU:O | 1:B:855:LEU:HD12 | 0.67 | 1.90 | 2 | 1 |
| 1:A:693:ILE:HD11 | 1:B:696:ARG:NE | 0.67 | 2.05 | 7 | 5 |
| 1:A:746:ILE:HG23 | 1:C:781:ILE:CD1 | 0.67 | 2.12 | 11 | 1 |
| 1:A:694:GLY:O | 1:A:697:ILE:HD12 | 0.67 | 1.89 | 3 | 3 |
| 1:C:748:LEU:HD22 | 1:C:748:LEU:O | 0.67 | 1.90 | 8 | 2 |
| 1:B:669:LEU:CD1 | 1:B:676:THR:HG21 | 0.67 | 2.20 | 8 | 1 |
| 1:B:704:LEU:HD11 | 1:C:707:ARG:CB | 0.67 | 2.20 | 2 | 1 |
| 1:B:682:ILE:HD12 | 1:B:683:ARG:N | 0.67 | 2.04 | 1 | 6 |
| 1:B:775:LEU:O | 1:B:778:VAL:HG22 | 0.67 | 1.90 | 6 | 5 |
| 1:B:781:ILE:HG23 | 1:C:746:ILE:HG21 | 0.67 | 1.67 | 12 | 1 |
| 1:A:753:LEU:HD22 | 1:A:753:LEU:C | 0.66 | 2.11 | 6 | 4 |
| 1:C:702:LEU:HD22 | 1:C:702:LEU:O | 0.66 | 1.90 | 12 | 3 |
| 1:C:830:ILE:H | 1:C:830:ILE:HD13 | 0.66 | 1.49 | 6 | 1 |
| 1:A:756:ILE:HD13 | 1:C:796:TRP:NE1 | 0.66 | 2.05 | 9 | 1 |
| 1:B:750:ASN:O | 1:B:753:LEU:HD12 | 0.66 | 1.90 | 11 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:678:TRP:O | 1:B:682:ILE:HG23 | 0.66 | 1.90 | 1 | 8 |
| 1:B:704:LEU:O | 1:B:708:VAL:HG23 | 0.66 | 1.90 | 15 | 3 |
| 1:A:705:VAL:HG21 | 1:A:748:LEU:HD12 | 0.66 | 1.68 | 10 | 2 |
| 1:A:675:ILE:HD13 | 1:A:675:ILE:O | 0.66 | 1.90 | 7 | 4 |
| 1:C:797:TRP:CD1 | 1:C:847:ILE:HD11 | 0.66 | 2.25 | 12 | 2 |
| 1:C:774:LEU:O | 1:C:774:LEU:HD22 | 0.66 | 1.91 | 12 | 1 |
| 1:A:682:ILE:HD12 | 1:A:683:ARG:N | 0.66 | 2.06 | 4 | 1 |
| 1:B:793:LEU:HD13 | 1:B:793:LEU:O | 0.66 | 1.91 | 13 | 4 |
| 1:B:785:LEU:HD23 | 1:C:750:ASN:OD1 | 0.66 | 1.89 | 5 | 1 |
| 1:B:779:THR:O | 1:B:782:VAL:HG22 | 0.65 | 1.91 | 14 | 2 |
| 1:B:795:TYR:HB3 | 1:C:756:ILE:HG21 | 0.65 | 1.67 | 14 | 2 |
| 1:A:791:GLU:O | 1:A:794:LYS:HG3 | 0.65 | 1.91 | 12 | 1 |
| 1:C:760:LEU:HD22 | 1:C:760:LEU:O | 0.65 | 1.91 | 1 | 1 |
| 1:A:785:LEU:HD13 | 1:A:785:LEU:O | 0.65 | 1.90 | 14 | 3 |
| 1:A:803:TRP:CH2 | 1:B:760:LEU:HD23 | 0.65 | 2.26 | 13 | 1 |
| 1:B:781:ILE:HD12 | 1:B:782:VAL:N | 0.65 | 2.07 | 6 | 1 |
| 1:A:663:LEU:HD22 | 1:A:663:LEU:O | 0.65 | 1.90 | 14 | 1 |
| 1:A:819:ALA:O | 1:A:826:THR:HG21 | 0.65 | 1.91 | 2 | 2 |
| 1:B:753:LEU:HD22 | 1:B:754:ALA:N | 0.65 | 2.07 | 6 | 1 |
| 1:A:802:TYR:CD1 | 1:B:760:LEU:HD21 | 0.65 | 2.26 | 7 | 1 |
| 1:A:829:VAL:O | 1:A:833:VAL:HG22 | 0.65 | 1.91 | 1 | 6 |
| 1:A:754:ALA:CB | 1:B:715:LEU:HD11 | 0.65 | 2.21 | 4 | 1 |
| 1:B:675:ILE:HD13 | 1:B:675:ILE:O | 0.65 | 1.92 | 8 | 2 |
| 1:A:776:LEU:HD13 | 1:A:776:LEU:H | 0.65 | 1.51 | 10 | 1 |
| 1:C:695:LEU:HD22 | 1:C:695:LEU:C | 0.65 | 2.12 | 10 | 1 |
| 1:C:746:ILE:O | 1:C:749:VAL:HG22 | 0.64 | 1.92 | 8 | 2 |
| 1:B:755:LEU:HD13 | 1:B:755:LEU:O | 0.64 | 1.93 | 7 | 2 |
| 1:A:663:LEU:HD12 | 1:A:664:ASP:N | 0.64 | 2.07 | 12 | 1 |
| 1:A:763:LEU:HD23 | 1:A:764:SER:H | 0.64 | 1.52 | 8 | 1 |
| 1:B:702:LEU:O | 1:B:702:LEU:HD22 | 0.64 | 1.92 | 14 | 3 |
| 1:A:755:LEU:HD13 | 1:A:756:ILE:N | 0.64 | 2.06 | 8 | 1 |
| 1:A:750:ASN:OD1 | 1:C:785:LEU:HD23 | 0.64 | 1.91 | 10 | 1 |
| 1:A:715:LEU:HD12 | 1:C:754:ALA:O | 0.64 | 1.92 | 15 | 1 |
| 1:A:753:LEU:HD23 | 1:C:791:GLU:HB3 | 0.64 | 1.67 | 6 | 3 |
| 1:B:702:LEU:C | 1:B:702:LEU:HD13 | 0.64 | 2.13 | 2 | 5 |
| 1:A:763:LEU:H | 1:A:763:LEU:HD13 | 0.64 | 1.50 | 4 | 8 |
| 1:A:775:LEU:O | 1:A:778:VAL:HG12 | 0.64 | 1.91 | 5 | 7 |
| 1:A:854:ILE:O | 1:A:854:ILE:HD13 | 0.64 | 1.92 | 4 | 2 |
| 1:A:816:ASN:N | 1:A:830:ILE:HD11 | 0.64 | 2.06 | 13 | 2 |
| 1:B:669:LEU:HD11 | 1:B:675:ILE:HG23 | 0.64 | 1.69 | 9 | 1 |
| 1:C:764:SER:OG | 1:C:771:LEU:HD12 | 0.64 | 1.92 | 3 | 3 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:C:822:VAL:HG21 | 1:C:826:THR:HG21 | 0.64 | 1.69 | 8 | 1 |
| 1:C:775:LEU:O | 1:C:778:VAL:HG22 | 0.64 | 1.93 | 4 | 4 |
| 1:B:855:LEU:HD22 | 1:B:855:LEU:O | 0.63 | 1.93 | 2 | 2 |
| 1:A:799:LEU:O | 1:A:803:TRP:CE3 | 0.63 | 2.51 | 3 | 4 |
| 1:C:799:LEU:HD23 | 1:C:800:LEU:N | 0.63 | 2.08 | 3 | 1 |
| 1:C:771:LEU:H | 1:C:771:LEU:HD13 | 0.63 | 1.52 | 10 | 7 |
| 1:A:774:LEU:O | 1:A:777:ILE:HG22 | 0.63 | 1.92 | 6 | 1 |
| 1:C:797:TRP:NE1 | 1:C:847:ILE:HD11 | 0.63 | 2.08 | 9 | 1 |
| 1:C:692:LEU:HD23 | 1:C:693:ILE:N | 0.63 | 2.07 | 14 | 1 |
| 1:A:715:LEU:HD12 | 1:C:751:GLY:CA | 0.63 | 2.23 | 2 | 1 |
| 1:A:750:ASN:ND2 | 1:C:785:LEU:HD23 | 0.63 | 2.09 | 2 | 6 |
| 1:A:756:ILE:CG2 | 1:A:760:LEU:HD12 | 0.63 | 2.22 | 6 | 1 |
| 1:B:764:SER:HB3 | 1:B:771:LEU:HD12 | 0.63 | 1.70 | 7 | 4 |
| 1:A:755:LEU:HD22 | 1:A:755:LEU:O | 0.63 | 1.93 | 8 | 1 |
| 1:B:799:LEU:HD23 | 1:B:800:LEU:N | 0.63 | 2.08 | 2 | 1 |
| 1:A:756:ILE:HD13 | 1:C:795:TYR:HB3 | 0.63 | 1.68 | 10 | 2 |
| 1:C:768:TYR:CD2 | 1:C:771:LEU:HD11 | 0.63 | 2.28 | 13 | 1 |
| 1:C:675:ILE:O | 1:C:675:ILE:HD13 | 0.63 | 1.94 | 10 | 3 |
| 1:B:785:LEU:HD23 | 1:C:750:ASN:ND2 | 0.63 | 2.09 | 15 | 2 |
| 1:C:678:TRP:O | 1:C:682:ILE:HG23 | 0.63 | 1.94 | 15 | 2 |
| 1:C:819:ALA:HB1 | 1:C:826:THR:CG2 | 0.63 | 2.23 | 11 | 1 |
| 1:B:756:ILE:HD13 | 1:B:756:ILE:O | 0.63 | 1.93 | 2 | 2 |
| 1:C:828:ARG:O | 1:C:832:VAL:HG23 | 0.63 | 1.94 | 13 | 4 |
| 1:C:776:LEU:O | 1:C:779:THR:HG22 | 0.63 | 1.94 | 4 | 2 |
| 1:B:686:ILE:HG21 | 1:C:686:ILE:CD1 | 0.63 | 2.24 | 5 | 1 |
| 1:A:760:LEU:O | 1:A:763:LEU:HD22 | 0.62 | 1.94 | 4 | 1 |
| 1:A:793:LEU:HD21 | 1:A:847:ILE:HG12 | 0.62 | 1.72 | 4 | 1 |
| 1:A:806:GLU:CB | 1:B:771:LEU:HD21 | 0.62 | 2.23 | 8 | 2 |
| 1:C:816:ASN:OD1 | 1:C:830:ILE:HD12 | 0.62 | 1.94 | 1 | 2 |
| 1:B:702:LEU:HD13 | 1:B:703:SER:N | 0.62 | 2.09 | 7 | 4 |
| 1:C:816:ASN:O | 1:C:820:ILE:HD12 | 0.62 | 1.94 | 5 | 2 |
| 1:C:826:THR:O | 1:C:829:VAL:HG12 | 0.62 | 1.94 | 8 | 3 |
| 1:C:675:ILE:HG22 | 1:C:679:LEU:CD1 | 0.62 | 2.25 | 4 | 1 |
| 1:A:747:ARG:NH1 | 1:A:754:ALA:HB2 | 0.62 | 2.09 | 7 | 1 |
| 1:A:806:GLU:HB3 | 1:B:771:LEU:HD11 | 0.62 | 1.72 | 13 | 1 |
| 1:A:797:TRP:CD1 | 1:A:847:ILE:HD11 | 0.62 | 2.29 | 3 | 1 |
| 1:B:806:GLU:CD | 1:C:771:LEU:HD21 | 0.62 | 2.14 | 12 | 1 |
| 1:C:708:VAL:HG12 | 1:C:741:ASP:OD2 | 0.62 | 1.94 | 1 | 1 |
| 1:C:748:LEU:HD13 | 1:C:748:LEU:O | 0.62 | 1.92 | 11 | 5 |
| 1:B:795:TYR:HB3 | 1:C:756:ILE:HD13 | 0.62 | 1.71 | 6 | 1 |
| 1:A:770:ARG:NH1 | 1:A:777:ILE:HD13 | 0.62 | 2.10 | 1 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models Worst | Total |
|---|---|---|---|---|---|
| 1:B:835:GLY:O | 1:B:839:ALA:HB3 | 0.62 | 1.94 | 4 | 7 |
| 1:C:685:PHE:HA | 1:C:688:ILE:HD12 | 0.62 | 1.71 | 13 | 2 |
| 1:A:669:LEU:CD2 | 1:A:676:THR:HG23 | 0.62 | 2.24 | 8 | 1 |
| 1:B:669:LEU:CD2 | 1:B:676:THR:HG23 | 0.62 | 2.25 | 9 | 1 |
| 1:B:826:THR:O | 1:B:830:ILE:HD12 | 0.62 | 1.94 | 15 | 1 |
| 1:A:752:SER:O | 1:A:755:LEU:HD12 | 0.61 | 1.95 | 8 | 1 |
| 1:B:800:LEU:HA | 1:B:803:TRP:CH2 | 0.61 | 2.30 | 9 | 1 |
| 1:A:781:ILE:HD13 | 1:B:746:ILE:HG13 | 0.61 | 1.72 | 12 | 2 |
| 1:C:697:ILE:HD13 | 1:C:697:ILE:O | 0.61 | 1.95 | 5 | 1 |
| 1:B:663:LEU:HD23 | 1:B:663:LEU:O | 0.61 | 1.94 | 10 | 1 |
| 1:C:819:ALA:HB1 | 1:C:826:THR:OG1 | 0.61 | 1.96 | 10 | 2 |
| 1:A:819:ALA:HB1 | 1:A:826:THR:OG1 | 0.61 | 1.94 | 12 | 1 |
| 1:B:808:LYS:O | 1:B:812:VAL:HG22 | 0.61 | 1.96 | 7 | 3 |
| 1:A:696:ARG:HE | 1:C:693:ILE:HD11 | 0.61 | 1.56 | 14 | 3 |
| 1:A:686:ILE:CG2 | 1:B:686:ILE:HD12 | 0.61 | 2.25 | 9 | 1 |
| 1:B:771:LEU:H | 1:B:771:LEU:HD13 | 0.61 | 1.55 | 3 | 7 |
| 1:B:775:LEU:H | 1:B:775:LEU:HD13 | 0.61 | 1.56 | 1 | 3 |
| 1:A:714:PRO:HB2 | 1:C:748:LEU:HD23 | 0.61 | 1.71 | 10 | 1 |
| 1:A:708:VAL:HG21 | 1:B:714:PRO:HD3 | 0.61 | 1.70 | 2 | 2 |
| 1:C:682:ILE:HD12 | 1:C:683:ARG:N | 0.61 | 2.10 | 10 | 2 |
| 1:C:695:LEU:O | 1:C:698:VAL:HG13 | 0.61 | 1.96 | 10 | 1 |
| 1:B:819:ALA:HB1 | 1:B:826:THR:HB | 0.61 | 1.72 | 2 | 5 |
| 1:B:828:ARG:O | 1:B:832:VAL:HG23 | 0.61 | 1.96 | 12 | 5 |
| 1:B:774:LEU:HD23 | 1:B:775:LEU:N | 0.61 | 2.10 | 3 | 1 |
| 1:A:816:ASN:CA | 1:A:830:ILE:HD11 | 0.61 | 2.26 | 13 | 3 |
| 1:B:704:LEU:HD21 | 1:C:714:PRO:O | 0.61 | 1.95 | 1 | 1 |
| 1:A:840:ILE:HD13 | 1:A:840:ILE:O | 0.61 | 1.94 | 2 | 2 |
| 1:B:750:ASN:O | 1:B:753:LEU:HD13 | 0.61 | 1.96 | 6 | 1 |
| 1:B:854:ILE:HD13 | 1:B:854:ILE:O | 0.60 | 1.96 | 10 | 1 |
| 1:A:796:TRP:HE1 | 1:B:756:ILE:HD13 | 0.60 | 1.57 | 1 | 1 |
| 1:B:685:PHE:O | 1:B:689:VAL:HG23 | 0.60 | 1.95 | 12 | 2 |
| 1:B:759:ASP:O | 1:B:763:LEU:HD12 | 0.60 | 1.95 | 4 | 2 |
| 1:B:746:ILE:O | 1:B:749:VAL:HG22 | 0.60 | 1.96 | 12 | 3 |
| 1:C:756:ILE:O | 1:C:756:ILE:HD13 | 0.60 | 1.95 | 15 | 1 |
| 1:B:704:LEU:HD11 | 1:C:712:TYR:O | 0.60 | 1.96 | 9 | 1 |
| 1:A:776:LEU:HD13 | 1:A:776:LEU:N | 0.60 | 2.11 | 10 | 1 |
| 1:A:781:ILE:HG22 | 1:B:746:ILE:HG21 | 0.60 | 1.73 | 15 | 1 |
| 1:B:748:LEU:O | 1:B:748:LEU:HD13 | 0.60 | 1.96 | 11 | 1 |
| 1:A:764:SER:OG | 1:A:771:LEU:HD22 | 0.60 | 1.96 | 13 | 1 |
| 1:A:785:LEU:HD22 | 1:B:750:ASN:ND2 | 0.60 | 2.12 | 5 | 1 |
| 1:B:663:LEU:O | 1:B:667:ALA:HB3 | 0.60 | 1.96 | 9 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:C:715:LEU:HD22 | 1:C:715:LEU:O | 0.60 | 1.96 | 2 | 2 |
| 1:C:829:VAL:O | 1:C:833:VAL:HG22 | 0.60 | 1.96 | 14 | 3 |
| 1:A:785:LEU:HD13 | 1:B:749:VAL:HB | 0.60 | 1.74 | 5 | 1 |
| 1:B:753:LEU:HD12 | 1:B:754:ALA:N | 0.60 | 2.12 | 10 | 2 |
| 1:B:820:ILE:O | 1:B:822:VAL:HG22 | 0.60 | 1.97 | 12 | 1 |
| 1:A:781:ILE:CG2 | 1:B:746:ILE:HG21 | 0.60 | 2.26 | 15 | 5 |
| 1:A:697:ILE:O | 1:A:697:ILE:HD13 | 0.60 | 1.97 | 10 | 2 |
| 1:A:816:ASN:HA | 1:A:830:ILE:HD11 | 0.60 | 1.70 | 12 | 2 |
| 1:B:812:VAL:HG11 | 1:B:834:GLN:NE2 | 0.60 | 2.11 | 10 | 1 |
| 1:B:768:TYR:O | 1:B:771:LEU:HD13 | 0.60 | 1.96 | 12 | 1 |
| 1:B:847:ILE:H | 1:B:847:ILE:HD13 | 0.60 | 1.57 | 12 | 1 |
| 1:C:693:ILE:HD12 | 1:C:693:ILE:O | 0.60 | 1.97 | 4 | 6 |
| 1:C:812:VAL:HG12 | 1:C:834:GLN:CD | 0.60 | 2.17 | 8 | 1 |
| 1:B:781:ILE:HG21 | 1:C:746:ILE:CG2 | 0.59 | 2.27 | 2 | 2 |
| 1:C:763:LEU:O | 1:C:774:LEU:HD22 | 0.59 | 1.97 | 6 | 1 |
| 1:A:793:LEU:HD12 | 1:A:797:TRP:NE1 | 0.59 | 2.11 | 11 | 2 |
| 1:A:753:LEU:HD23 | 1:C:791:GLU:CB | 0.59 | 2.27 | 2 | 3 |
| 1:A:754:ALA:HB1 | 1:B:715:LEU:HB3 | 0.59 | 1.73 | 7 | 1 |
| 1:A:765:LEU:HD12 | 1:A:770:ARG:NH2 | 0.59 | 2.13 | 1 | 1 |
| 1:A:678:TRP:O | 1:A:682:ILE:HG23 | 0.59 | 1.96 | 13 | 2 |
| 1:A:793:LEU:HD12 | 1:A:847:ILE:HD11 | 0.59 | 1.75 | 7 | 2 |
| 1:C:771:LEU:HD23 | 1:C:772:ARG:CD | 0.59 | 2.26 | 11 | 1 |
| 1:C:771:LEU:HD13 | 1:C:772:ARG:N | 0.59 | 2.12 | 4 | 1 |
| 1:A:785:LEU:HD21 | 1:B:746:ILE:HG22 | 0.59 | 1.73 | 5 | 1 |
| 1:A:830:ILE:HD13 | 1:A:831:GLU:N | 0.59 | 2.12 | 7 | 1 |
| 1:B:799:LEU:HD22 | 1:C:756:ILE:HD12 | 0.59 | 1.75 | 8 | 1 |
| 1:C:812:VAL:HG12 | 1:C:834:GLN:NE2 | 0.59 | 2.13 | 8 | 1 |
| 1:C:715:LEU:C | 1:C:715:LEU:HD22 | 0.59 | 2.18 | 9 | 1 |
| 1:A:756:ILE:HG21 | 1:C:795:TYR:HB3 | 0.59 | 1.75 | 6 | 3 |
| 1:B:694:GLY:O | 1:B:697:ILE:HG22 | 0.59 | 1.98 | 5 | 4 |
| 1:B:793:LEU:O | 1:B:793:LEU:HD23 | 0.59 | 1.98 | 6 | 2 |
| 1:A:828:ARG:O | 1:A:832:VAL:HG22 | 0.59 | 1.98 | 11 | 2 |
| 1:B:760:LEU:C | 1:B:760:LEU:HD13 | 0.59 | 2.19 | 3 | 3 |
| 1:A:704:LEU:HD11 | 1:B:707:ARG:CB | 0.58 | 2.27 | 2 | 2 |
| 1:A:758:ASP:HB3 | 1:B:715:LEU:HD11 | 0.58 | 1.75 | 12 | 1 |
| 1:B:840:ILE:HD13 | 1:B:840:ILE:O | 0.58 | 1.97 | 2 | 2 |
| 1:C:821:ALA:O | 1:C:822:VAL:HG13 | 0.58 | 1.97 | 2 | 1 |
| 1:A:765:LEU:HD13 | 1:A:766:PHE:N | 0.58 | 2.13 | 4 | 1 |
| 1:A:799:LEU:HD23 | 1:A:800:LEU:N | 0.58 | 2.13 | 11 | 1 |
| 1:A:753:LEU:HD13 | 1:A:754:ALA:H | 0.58 | 1.58 | 6 | 1 |
| 1:A:753:LEU:O | 1:A:756:ILE:HG22 | 0.58 | 1.98 | 15 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models Worst | Total |
|---|---|---|---|---|---|
| 1:B:791:GLU:O | 1:B:794:LYS:HG3 | 0.58 | 1.99 | 6 | 9 |
| 1:B:796:TRP:HE1 | 1:C:756:ILE:HD11 | 0.58 | 1.59 | 2 | 1 |
| 1:B:702:LEU:O | 1:B:702:LEU:HD13 | 0.58 | 1.99 | 4 | 1 |
| 1:B:682:ILE:HD13 | 1:B:682:ILE:C | 0.58 | 2.18 | 13 | 1 |
| 1:A:686:ILE:HG21 | 1:B:686:ILE:CD1 | 0.58 | 2.28 | 9 | 2 |
| 1:B:799:LEU:HD13 | 1:C:756:ILE:HD11 | 0.58 | 1.76 | 5 | 1 |
| 1:B:799:LEU:O | 1:B:803:TRP:CD2 | 0.58 | 2.57 | 13 | 3 |
| 1:B:693:ILE:HD11 | 1:C:692:LEU:HD23 | 0.58 | 1.75 | 8 | 3 |
| 1:A:663:LEU:HD13 | 1:A:664:ASP:N | 0.58 | 2.14 | 14 | 2 |
| 1:A:750:ASN:CG | 1:C:785:LEU:HD22 | 0.58 | 2.19 | 9 | 2 |
| 1:C:793:LEU:HD22 | 1:C:793:LEU:O | 0.58 | 1.99 | 10 | 1 |
| 1:C:793:LEU:HD21 | 1:C:797:TRP:NE1 | 0.58 | 2.14 | 10 | 1 |
| 1:A:796:TRP:CD1 | 1:B:756:ILE:HD13 | 0.58 | 2.34 | 10 | 2 |
| 1:B:793:LEU:HD11 | 1:B:847:ILE:HG13 | 0.58 | 1.74 | 12 | 1 |
| 1:A:754:ALA:HB1 | 1:B:715:LEU:O | 0.57 | 1.99 | 1 | 2 |
| 1:C:774:LEU:HD13 | 1:C:774:LEU:O | 0.57 | 1.99 | 14 | 2 |
| 1:C:791:GLU:O | 1:C:794:LYS:HG3 | 0.57 | 1.99 | 5 | 2 |
| 1:B:702:LEU:HD13 | 1:B:702:LEU:C | 0.57 | 2.20 | 7 | 1 |
| 1:B:669:LEU:HD11 | 1:B:675:ILE:CG2 | 0.57 | 2.28 | 9 | 1 |
| 1:A:774:LEU:O | 1:A:778:VAL:HG23 | 0.57 | 1.99 | 15 | 1 |
| 1:C:708:VAL:HG11 | 1:C:744:ARG:NH1 | 0.57 | 2.13 | 1 | 1 |
| 1:B:829:VAL:O | 1:B:833:VAL:HG23 | 0.57 | 1.99 | 4 | 4 |
| 1:B:855:LEU:HD13 | 1:B:855:LEU:O | 0.57 | 2.00 | 14 | 2 |
| 1:A:763:LEU:HD13 | 1:A:764:SER:H | 0.57 | 1.60 | 2 | 1 |
| 1:B:855:LEU:HD13 | 1:B:856:LEU:N | 0.57 | 2.13 | 2 | 2 |
| 1:C:775:LEU:O | 1:C:775:LEU:HD22 | 0.57 | 1.99 | 14 | 2 |
| 1:B:667:ALA:CB | 1:C:660:LEU:HD11 | 0.57 | 2.30 | 2 | 1 |
| 1:B:768:TYR:O | 1:B:771:LEU:HD22 | 0.57 | 1.99 | 14 | 1 |
| 1:A:763:LEU:HD22 | 1:A:764:SER:H | 0.57 | 1.60 | 7 | 2 |
| 1:A:821:ALA:O | 1:A:822:VAL:HG13 | 0.57 | 2.00 | 5 | 1 |
| 1:B:829:VAL:O | 1:B:833:VAL:HG22 | 0.57 | 1.99 | 7 | 2 |
| 1:C:695:LEU:HD22 | 1:C:695:LEU:O | 0.57 | 2.00 | 10 | 1 |
| 1:B:764:SER:OG | 1:B:771:LEU:HD12 | 0.57 | 1.99 | 12 | 2 |
| 1:B:816:ASN:ND2 | 1:B:830:ILE:HD12 | 0.57 | 2.13 | 8 | 1 |
| 1:A:686:ILE:HG12 | 1:B:686:ILE:HD12 | 0.57 | 1.75 | 8 | 2 |
| 1:C:702:LEU:C | 1:C:702:LEU:HD13 | 0.57 | 2.19 | 10 | 7 |
| 1:A:781:ILE:HD13 | 1:B:746:ILE:HG12 | 0.57 | 1.74 | 3 | 2 |
| 1:A:819:ALA:HB1 | 1:A:826:THR:HB | 0.57 | 1.76 | 7 | 5 |
| 1:A:790:TRP:CZ2 | 1:A:793:LEU:HD23 | 0.57 | 2.35 | 11 | 2 |
| 1:B:808:LYS:O | 1:B:812:VAL:HG23 | 0.57 | 2.00 | 11 | 4 |
| 1:C:760:LEU:O | 1:C:760:LEU:HD23 | 0.57 | 2.00 | 10 | 4 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models Worst | Total |
|---|---|---|---|---|---|
| 1:C:683:ARG:HG3 | 1:C:684:ILE:HD12 | 0.57 | 1.77 | 7 | 1 |
| 1:C:826:THR:O | 1:C:830:ILE:HD12 | 0.57 | 1.99 | 8 | 1 |
| 1:A:750:ASN:CG | 1:C:785:LEU:HD23 | 0.57 | 2.19 | 12 | 2 |
| 1:B:812:VAL:HG21 | 1:B:834:GLN:OE1 | 0.57 | 2.00 | 11 | 1 |
| 1:A:760:LEU:HD13 | 1:A:761:ARG:H | 0.57 | 1.60 | 12 | 1 |
| 1:C:819:ALA:O | 1:C:826:THR:HG21 | 0.56 | 2.00 | 7 | 2 |
| 1:B:693:ILE:HG12 | 1:C:692:LEU:HD21 | 0.56 | 1.77 | 14 | 1 |
| 1:A:754:ALA:HB2 | 1:B:715:LEU:HD11 | 0.56 | 1.77 | 4 | 1 |
| 1:A:771:LEU:C | 1:A:771:LEU:HD13 | 0.56 | 2.20 | 7 | 1 |
| 1:C:774:LEU:O | 1:C:778:VAL:HG23 | 0.56 | 2.00 | 13 | 1 |
| 1:A:715:LEU:HD12 | 1:C:751:GLY:O | 0.56 | 1.99 | 6 | 1 |
| 1:C:828:ARG:O | 1:C:832:VAL:HG12 | 0.56 | 2.00 | 11 | 2 |
| 1:B:793:LEU:HD11 | 1:B:847:ILE:CG1 | 0.56 | 2.30 | 12 | 1 |
| 1:A:753:LEU:HD23 | 1:C:791:GLU:HG3 | 0.56 | 1.76 | 14 | 1 |
| 1:B:765:LEU:HD23 | 1:B:774:LEU:HD11 | 0.56 | 1.77 | 15 | 1 |
| 1:B:763:LEU:H | 1:B:763:LEU:HD13 | 0.56 | 1.61 | 5 | 4 |
| 1:C:764:SER:CB | 1:C:771:LEU:HD12 | 0.56 | 2.30 | 13 | 1 |
| 1:C:830:ILE:HD13 | 1:C:830:ILE:O | 0.56 | 2.01 | 7 | 4 |
| 1:A:808:LYS:O | 1:A:812:VAL:HG22 | 0.56 | 2.01 | 2 | 4 |
| 1:A:714:PRO:HG3 | 1:C:705:VAL:HG22 | 0.56 | 1.76 | 1 | 2 |
| 1:B:761:ARG:O | 1:B:765:LEU:HD22 | 0.56 | 2.01 | 7 | 1 |
| 1:A:785:LEU:HD23 | 1:B:750:ASN:CG | 0.56 | 2.21 | 1 | 1 |
| 1:A:704:LEU:O | 1:A:708:VAL:HG23 | 0.56 | 2.01 | 2 | 1 |
| 1:C:797:TRP:CG | 1:C:847:ILE:HD12 | 0.56 | 2.36 | 3 | 3 |
| 1:B:821:ALA:O | 1:B:822:VAL:HG13 | 0.56 | 2.01 | 4 | 1 |
| 1:C:660:LEU:C | 1:C:661:LEU:HD23 | 0.56 | 2.21 | 4 | 1 |
| 1:A:781:ILE:HG23 | 1:B:746:ILE:CG2 | 0.56 | 2.31 | 13 | 1 |
| 1:B:751:GLY:HA2 | 1:C:715:LEU:HD11 | 0.56 | 1.77 | 2 | 1 |
| 1:C:771:LEU:HD23 | 1:C:772:ARG:CZ | 0.56 | 2.31 | 2 | 1 |
| 1:C:663:LEU:C | 1:C:663:LEU:HD22 | 0.56 | 2.22 | 15 | 2 |
| 1:A:760:LEU:HD11 | 1:C:799:LEU:HB2 | 0.56 | 1.76 | 6 | 1 |
| 1:A:781:ILE:HG23 | 1:B:746:ILE:HG23 | 0.56 | 1.77 | 7 | 2 |
| 1:A:830:ILE:O | 1:A:830:ILE:HD13 | 0.56 | 2.00 | 8 | 1 |
| 1:C:819:ALA:CB | 1:C:826:THR:HG21 | 0.56 | 2.23 | 14 | 1 |
| 1:A:771:LEU:HD22 | 1:A:771:LEU:N | 0.55 | 2.16 | 4 | 7 |
| 1:A:819:ALA:HB1 | 1:A:826:THR:HG22 | 0.55 | 1.77 | 9 | 1 |
| 1:B:812:VAL:HG11 | 1:B:834:GLN:OE1 | 0.55 | 2.02 | 14 | 1 |
| 1:C:763:LEU:O | 1:C:774:LEU:HD13 | 0.55 | 2.00 | 9 | 2 |
| 1:A:704:LEU:HD21 | 1:B:707:ARG:HA | 0.55 | 1.78 | 8 | 1 |
| 1:A:819:ALA:HB3 | 1:A:827:ASP:OD1 | 0.55 | 2.01 | 11 | 1 |
| 1:A:771:LEU:HD22 | 1:A:772:ARG:H | 0.55 | 1.62 | 15 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:756:ILE:HD13 | 1:C:795:TYR:CB | 0.55 | 2.31 | 10 | 1 |
| 1:A:793:LEU:HD11 | 1:A:847:ILE:HG13 | 0.55 | 1.77 | 4 | 1 |
| 1:A:816:ASN:HB2 | 1:A:830:ILE:HD11 | 0.55 | 1.76 | 3 | 2 |
| 1:B:771:LEU:HD23 | 1:B:772:ARG:HD3 | 0.55 | 1.79 | 8 | 1 |
| 1:C:850:GLY:O | 1:C:854:ILE:HG23 | 0.55 | 2.02 | 8 | 1 |
| 1:A:705:VAL:HG11 | 1:A:745:SER:HB2 | 0.55 | 1.79 | 12 | 1 |
| 1:B:793:LEU:HD12 | 1:B:793:LEU:O | 0.55 | 2.01 | 14 | 1 |
| 1:B:754:ALA:HB3 | 1:C:715:LEU:O | 0.55 | 2.01 | 15 | 1 |
| 1:A:795:TYR:CB | 1:B:756:ILE:HG21 | 0.55 | 2.32 | 1 | 1 |
| 1:A:764:SER:HB3 | 1:A:771:LEU:HD12 | 0.55 | 1.78 | 14 | 3 |
| 1:B:819:ALA:O | 1:B:826:THR:HG21 | 0.55 | 2.02 | 9 | 2 |
| 1:B:806:GLU:HG3 | 1:C:771:LEU:HD21 | 0.55 | 1.77 | 15 | 1 |
| 1:C:771:LEU:HD23 | 1:C:772:ARG:NE | 0.55 | 2.16 | 2 | 1 |
| 1:C:809:ASN:O | 1:C:812:VAL:HG22 | 0.55 | 2.02 | 8 | 1 |
| 1:C:771:LEU:O | 1:C:774:LEU:HD23 | 0.55 | 2.01 | 10 | 1 |
| 1:A:693:ILE:HD12 | 1:A:693:ILE:O | 0.55 | 2.02 | 15 | 1 |
| 1:A:774:LEU:HD13 | 1:A:777:ILE:HD11 | 0.54 | 1.79 | 8 | 1 |
| 1:A:692:LEU:HD12 | 1:A:693:ILE:N | 0.54 | 2.17 | 13 | 1 |
| 1:C:790:TRP:CZ2 | 1:C:793:LEU:HD23 | 0.54 | 2.37 | 1 | 1 |
| 1:B:771:LEU:HD22 | 1:B:771:LEU:C | 0.54 | 2.22 | 2 | 1 |
| 1:B:745:SER:O | 1:B:748:LEU:HD23 | 0.54 | 2.02 | 8 | 1 |
| 1:B:781:ILE:HG21 | 1:C:746:ILE:HG21 | 0.54 | 1.78 | 2 | 3 |
| 1:A:795:TYR:CZ | 1:A:796:TRP:NE1 | 0.54 | 2.76 | 2 | 7 |
| 1:C:793:LEU:HD23 | 1:C:847:ILE:HD11 | 0.54 | 1.78 | 7 | 1 |
| 1:C:695:LEU:O | 1:C:698:VAL:HG12 | 0.54 | 2.03 | 13 | 1 |
| 1:C:675:ILE:HG22 | 1:C:679:LEU:HD12 | 0.54 | 1.79 | 4 | 1 |
| 1:A:693:ILE:HD11 | 1:B:696:ARG:HE | 0.54 | 1.61 | 15 | 3 |
| 1:A:763:LEU:O | 1:A:774:LEU:HD22 | 0.54 | 2.03 | 3 | 5 |
| 1:A:679:LEU:O | 1:A:682:ILE:HG22 | 0.54 | 2.03 | 3 | 1 |
| 1:C:695:LEU:O | 1:C:695:LEU:HD23 | 0.54 | 2.03 | 1 | 4 |
| 1:A:742:ARG:HH11 | 1:A:746:ILE:HD11 | 0.54 | 1.63 | 6 | 1 |
| 1:B:715:LEU:C | 1:B:715:LEU:HD13 | 0.54 | 2.23 | 9 | 1 |
| 1:A:753:LEU:O | 1:A:756:ILE:HD12 | 0.54 | 2.01 | 11 | 1 |
| 1:C:771:LEU:HD23 | 1:C:772:ARG:HD2 | 0.54 | 1.79 | 11 | 1 |
| 1:B:693:ILE:CG1 | 1:C:692:LEU:HD21 | 0.54 | 2.33 | 14 | 1 |
| 1:A:686:ILE:HD11 | 1:C:686:ILE:CG2 | 0.54 | 2.33 | 2 | 3 |
| 1:A:764:SER:OG | 1:A:771:LEU:HD12 | 0.54 | 2.02 | 2 | 2 |
| 1:A:695:LEU:C | 1:A:695:LEU:HD23 | 0.54 | 2.23 | 3 | 2 |
| 1:A:856:LEU:HD13 | 1:A:856:LEU:N | 0.54 | 2.18 | 5 | 1 |
| 1:B:785:LEU:HD23 | 1:C:750:ASN:CG | 0.54 | 2.23 | 15 | 2 |
| 1:C:827:ASP:HA | 1:C:830:ILE:HD11 | 0.54 | 1.79 | 6 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:771:LEU:HD23 | 1:B:772:ARG:H | 0.54 | 1.61 | 14 | 2 |
| 1:C:820:ILE:HD13 | 1:C:826:THR:HG22 | 0.54 | 1.79 | 14 | 1 |
| 1:A:760:LEU:C | 1:A:760:LEU:HD13 | 0.54 | 2.23 | 10 | 5 |
| 1:B:682:ILE:HD12 | 1:B:683:ARG:H | 0.54 | 1.61 | 11 | 2 |
| 1:B:799:LEU:O | 1:B:803:TRP:CE3 | 0.54 | 2.61 | 4 | 3 |
| 1:A:695:LEU:HD23 | 1:A:695:LEU:O | 0.54 | 2.03 | 2 | 7 |
| 1:C:702:LEU:O | 1:C:702:LEU:HD13 | 0.54 | 2.03 | 4 | 1 |
| 1:C:793:LEU:HD13 | 1:C:794:LYS:N | 0.54 | 2.18 | 10 | 1 |
| 1:A:845:ARG:O | 1:A:847:ILE:HD13 | 0.54 | 2.03 | 1 | 1 |
| 1:C:771:LEU:HD22 | 1:C:771:LEU:N | 0.54 | 2.17 | 11 | 8 |
| 1:A:802:TYR:CE1 | 1:B:760:LEU:HD11 | 0.54 | 2.38 | 7 | 1 |
| 1:C:819:ALA:HB1 | 1:C:826:THR:HG23 | 0.54 | 1.80 | 11 | 1 |
| 1:A:704:LEU:HD11 | 1:B:707:ARG:CG | 0.53 | 2.33 | 6 | 2 |
| 1:C:753:LEU:C | 1:C:753:LEU:HD22 | 0.53 | 2.23 | 6 | 4 |
| 1:B:686:ILE:CG2 | 1:C:686:ILE:HD11 | 0.53 | 2.32 | 2 | 2 |
| 1:B:695:LEU:HD23 | 1:B:695:LEU:O | 0.53 | 2.04 | 2 | 2 |
| 1:B:796:TRP:NE1 | 1:C:756:ILE:HD11 | 0.53 | 2.18 | 2 | 1 |
| 1:A:669:LEU:HD23 | 1:A:676:THR:HG23 | 0.53 | 1.80 | 8 | 1 |
| 1:B:669:LEU:HD23 | 1:B:676:THR:HG23 | 0.53 | 1.79 | 12 | 4 |
| 1:C:768:TYR:CG | 1:C:771:LEU:HD11 | 0.53 | 2.38 | 13 | 1 |
| 1:A:774:LEU:HD13 | 1:A:774:LEU:O | 0.53 | 2.03 | 13 | 2 |
| 1:B:710:GLN:O | 1:B:715:LEU:HD23 | 0.53 | 2.03 | 4 | 1 |
| 1:A:694:GLY:O | 1:A:697:ILE:HG22 | 0.53 | 2.04 | 11 | 6 |
| 1:C:705:VAL:HG21 | 1:C:748:LEU:CD1 | 0.53 | 2.33 | 7 | 1 |
| 1:A:693:ILE:C | 1:A:693:ILE:HD13 | 0.53 | 2.24 | 2 | 4 |
| 1:A:785:LEU:HD21 | 1:B:750:ASN:ND2 | 0.53 | 2.18 | 11 | 2 |
| 1:B:693:ILE:CD1 | 1:C:692:LEU:HD23 | 0.53 | 2.34 | 13 | 2 |
| 1:B:812:VAL:HG11 | 1:B:834:GLN:HE21 | 0.53 | 1.61 | 10 | 1 |
| 1:C:775:LEU:HD22 | 1:C:775:LEU:C | 0.53 | 2.23 | 11 | 2 |
| 1:B:797:TRP:CD1 | 1:B:847:ILE:HD11 | 0.53 | 2.38 | 12 | 1 |
| 1:A:790:TRP:CH2 | 1:A:851:LEU:HD22 | 0.53 | 2.38 | 13 | 1 |
| 1:C:771:LEU:HD22 | 1:C:771:LEU:H | 0.53 | 1.63 | 11 | 2 |
| 1:A:770:ARG:O | 1:A:773:ASP:N | 0.53 | 2.42 | 13 | 2 |
| 1:C:790:TRP:CH2 | 1:C:793:LEU:HD13 | 0.53 | 2.37 | 7 | 1 |
| 1:A:707:ARG:HA | 1:C:704:LEU:HD13 | 0.53 | 1.81 | 10 | 2 |
| 1:A:820:ILE:O | 1:A:822:VAL:HG22 | 0.53 | 2.03 | 14 | 1 |
| 1:A:763:LEU:O | 1:A:774:LEU:HD13 | 0.53 | 2.04 | 6 | 1 |
| 1:A:693:ILE:HG22 | 1:C:693:ILE:HD13 | 0.53 | 1.80 | 11 | 1 |
| 1:A:704:LEU:O | 1:A:708:VAL:HG22 | 0.53 | 2.03 | 14 | 1 |
| 1:C:756:ILE:HD13 | 1:C:756:ILE:C | 0.53 | 2.24 | 15 | 1 |
| 1:B:675:ILE:HD11 | 1:B:679:LEU:HD12 | 0.53 | 1.78 | 4 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:715:LEU:O | 1:B:716:SER:C | 0.53 | 2.48 | 4 | 1 |
| 1:B:803:TRP:CZ2 | 1:C:760:LEU:HD22 | 0.53 | 2.39 | 4 | 1 |
| 1:A:760:LEU:HD21 | 1:C:803:TRP:CH2 | 0.53 | 2.38 | 5 | 1 |
| 1:C:771:LEU:HD22 | 1:C:772:ARG:H | 0.53 | 1.61 | 10 | 1 |
| 1:B:830:ILE:HD12 | 1:B:831:GLU:N | 0.53 | 2.18 | 11 | 1 |
| 1:C:663:LEU:HD23 | 1:C:663:LEU:O | 0.53 | 2.03 | 11 | 1 |
| 1:C:807:LEU:O | 1:C:807:LEU:HD13 | 0.53 | 2.03 | 12 | 2 |
| 1:A:803:TRP:N | 1:A:803:TRP:CE3 | 0.53 | 2.77 | 4 | 13 |
| 1:C:820:ILE:HD11 | 1:C:827:ASP:HB2 | 0.53 | 1.78 | 1 | 1 |
| 1:A:689:VAL:O | 1:A:692:LEU:HD22 | 0.53 | 2.04 | 8 | 1 |
| 1:B:675:ILE:HD12 | 1:B:675:ILE:O | 0.53 | 2.04 | 7 | 2 |
| 1:B:819:ALA:HB1 | 1:B:826:THR:CG2 | 0.53 | 2.34 | 15 | 2 |
| 1:B:697:ILE:HD11 | 1:C:696:ARG:HD2 | 0.53 | 1.81 | 7 | 1 |
| 1:B:753:LEU:HD22 | 1:B:753:LEU:O | 0.53 | 2.04 | 7 | 3 |
| 1:A:675:ILE:HD12 | 1:A:678:TRP:CE3 | 0.52 | 2.38 | 1 | 2 |
| 1:B:803:TRP:N | 1:B:803:TRP:CE3 | 0.52 | 2.77 | 15 | 11 |
| 1:C:836:ALA:O | 1:C:840:ILE:HG23 | 0.52 | 2.04 | 8 | 2 |
| 1:B:743:ASP:HA | 1:B:746:ILE:HD12 | 0.52 | 1.80 | 7 | 1 |
| 1:A:675:ILE:CD1 | 1:A:679:LEU:HD23 | 0.52 | 2.34 | 8 | 1 |
| 1:A:748:LEU:HD23 | 1:A:748:LEU:O | 0.52 | 2.04 | 11 | 2 |
| 1:A:710:GLN:CG | 1:A:715:LEU:HD22 | 0.52 | 2.34 | 9 | 1 |
| 1:A:763:LEU:HD22 | 1:A:763:LEU:C | 0.52 | 2.24 | 2 | 1 |
| 1:A:663:LEU:HD22 | 1:A:663:LEU:C | 0.52 | 2.25 | 6 | 4 |
| 1:B:667:ALA:CA | 1:C:660:LEU:HD11 | 0.52 | 2.34 | 2 | 1 |
| 1:A:754:ALA:HB3 | 1:B:715:LEU:HD21 | 0.52 | 1.81 | 9 | 1 |
| 1:A:820:ILE:HD12 | 1:A:827:ASP:OD1 | 0.52 | 2.04 | 10 | 1 |
| 1:A:696:ARG:HD3 | 1:C:693:ILE:HD11 | 0.52 | 1.82 | 15 | 1 |
| 1:A:771:LEU:HD11 | 1:A:772:ARG:NH2 | 0.52 | 2.19 | 3 | 1 |
| 1:A:763:LEU:HD13 | 1:A:763:LEU:N | 0.52 | 2.20 | 4 | 1 |
| 1:B:816:ASN:O | 1:B:820:ILE:HD12 | 0.52 | 2.05 | 4 | 1 |
| 1:A:693:ILE:HD13 | 1:B:696:ARG:HE | 0.52 | 1.64 | 8 | 1 |
| 1:A:747:ARG:HG3 | 1:C:785:LEU:HD21 | 0.52 | 1.81 | 12 | 1 |
| 1:B:806:GLU:CB | 1:C:771:LEU:HD21 | 0.52 | 2.34 | 10 | 1 |
| 1:A:791:GLU:O | 1:A:794:LYS:HD2 | 0.52 | 2.05 | 1 | 1 |
| 1:B:771:LEU:N | 1:B:771:LEU:HD22 | 0.52 | 2.20 | 8 | 6 |
| 1:C:779:THR:O | 1:C:782:VAL:HG12 | 0.52 | 2.04 | 3 | 1 |
| 1:A:707:ARG:HB3 | 1:C:704:LEU:HD11 | 0.52 | 1.81 | 4 | 1 |
| 1:B:771:LEU:N | 1:B:771:LEU:HD13 | 0.52 | 2.19 | 6 | 1 |
| 1:B:781:ILE:HD13 | 1:C:746:ILE:HG23 | 0.52 | 1.82 | 6 | 1 |
| 1:B:822:VAL:CG1 | 1:B:826:THR:HG22 | 0.52 | 2.34 | 8 | 1 |
| 1:B:686:ILE:CG2 | 1:C:686:ILE:HD12 | 0.52 | 2.35 | 10 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:756:ILE:HG21 | 1:C:795:TYR:CB | 0.52 | 2.34 | 1 | 2 |
| 1:C:675:ILE:HG23 | 1:C:678:TRP:CZ2 | 0.52 | 2.40 | 4 | 1 |
| 1:B:771:LEU:HD13 | 1:B:771:LEU:N | 0.52 | 2.19 | 7 | 3 |
| 1:C:803:TRP:N | 1:C:803:TRP:CE3 | 0.52 | 2.78 | 3 | 15 |
| 1:B:781:ILE:HD12 | 1:C:746:ILE:HG21 | 0.52 | 1.79 | 3 | 1 |
| 1:B:781:ILE:HD12 | 1:C:746:ILE:CG2 | 0.52 | 2.35 | 3 | 1 |
| 1:C:745:SER:O | 1:C:748:LEU:HD12 | 0.52 | 2.04 | 4 | 1 |
| 1:A:760:LEU:HD22 | 1:A:760:LEU:O | 0.52 | 2.03 | 13 | 5 |
| 1:A:713:SER:O | 1:A:714:PRO:C | 0.52 | 2.49 | 11 | 5 |
| 1:C:794:LYS:HD3 | 1:C:795:TYR:N | 0.52 | 2.19 | 6 | 1 |
| 1:C:678:TRP:CD1 | 1:C:682:ILE:HG21 | 0.52 | 2.40 | 11 | 1 |
| 1:A:697:ILE:HD13 | 1:A:698:VAL:H | 0.52 | 1.65 | 4 | 3 |
| 1:A:795:TYR:CD1 | 1:B:756:ILE:HG23 | 0.52 | 2.40 | 11 | 1 |
| 1:A:803:TRP:N | 1:A:803:TRP:HE3 | 0.51 | 2.04 | 1 | 7 |
| 1:C:753:LEU:HD12 | 1:C:754:ALA:N | 0.51 | 2.19 | 1 | 1 |
| 1:B:819:ALA:HB3 | 1:B:830:ILE:HD11 | 0.51 | 1.82 | 15 | 1 |
| 1:B:667:ALA:HB2 | 1:C:660:LEU:CD1 | 0.51 | 2.35 | 2 | 1 |
| 1:A:836:ALA:O | 1:A:840:ILE:HG23 | 0.51 | 2.06 | 9 | 2 |
| 1:C:695:LEU:HD13 | 1:C:696:ARG:HD2 | 0.51 | 1.81 | 10 | 1 |
| 1:C:826:THR:O | 1:C:830:ILE:HG22 | 0.51 | 2.05 | 12 | 1 |
| 1:C:777:ILE:O | 1:C:781:ILE:HG22 | 0.51 | 2.05 | 15 | 1 |
| 1:B:803:TRP:N | 1:B:803:TRP:HE3 | 0.51 | 2.03 | 13 | 5 |
| 1:A:808:LYS:O | 1:A:812:VAL:HG23 | 0.51 | 2.05 | 15 | 4 |
| 1:B:795:TYR:O | 1:B:799:LEU:HD12 | 0.51 | 2.04 | 13 | 1 |
| 1:B:704:LEU:HD22 | 1:C:710:GLN:HG3 | 0.51 | 1.83 | 1 | 1 |
| 1:B:814:LEU:O | 1:B:818:THR:HG22 | 0.51 | 2.05 | 1 | 1 |
| 1:A:760:LEU:HA | 1:A:763:LEU:HD22 | 0.51 | 1.81 | 5 | 1 |
| 1:B:828:ARG:O | 1:B:832:VAL:HG22 | 0.51 | 2.05 | 7 | 3 |
| 1:C:819:ALA:CB | 1:C:830:ILE:HD11 | 0.51 | 2.34 | 8 | 1 |
| 1:A:756:ILE:HG21 | 1:C:795:TYR:CD2 | 0.51 | 2.41 | 12 | 1 |
| 1:A:791:GLU:HG3 | 1:B:753:LEU:HD13 | 0.51 | 1.82 | 1 | 1 |
| 1:A:763:LEU:HD13 | 1:A:764:SER:N | 0.51 | 2.21 | 2 | 1 |
| 1:C:785:LEU:HD23 | 1:C:788:ARG:HD3 | 0.51 | 1.83 | 3 | 1 |
| 1:A:754:ALA:HB1 | 1:B:715:LEU:CB | 0.51 | 2.35 | 7 | 1 |
| 1:A:826:THR:O | 1:A:830:ILE:HG22 | 0.51 | 2.06 | 1 | 1 |
| 1:C:781:ILE:HG22 | 1:C:785:LEU:HD11 | 0.51 | 1.83 | 3 | 1 |
| 1:C:840:ILE:HD13 | 1:C:840:ILE:O | 0.51 | 2.05 | 3 | 2 |
| 1:C:702:LEU:HD13 | 1:C:703:SER:N | 0.51 | 2.20 | 5 | 3 |
| 1:A:793:LEU:HD13 | 1:A:847:ILE:HD12 | 0.51 | 1.83 | 6 | 1 |
| 1:A:816:ASN:CG | 1:A:830:ILE:HD11 | 0.51 | 2.26 | 7 | 1 |
| 1:B:763:LEU:HD22 | 1:B:763:LEU:C | 0.51 | 2.26 | 14 | 4 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:819:ALA:HB3 | 1:B:827:ASP:HB3 | 0.51 | 1.83 | 1 | 1 |
| 1:B:799:LEU:CD2 | 1:C:756:ILE:HD12 | 0.51 | 2.36 | 8 | 1 |
| 1:A:693:ILE:HD12 | 1:B:692:LEU:HD23 | 0.51 | 1.82 | 7 | 1 |
| 1:A:692:LEU:H | 1:A:692:LEU:HD13 | 0.51 | 1.66 | 8 | 1 |
| 1:A:806:GLU:HB3 | 1:B:771:LEU:HD21 | 0.51 | 1.83 | 11 | 2 |
| 1:C:748:LEU:HD22 | 1:C:748:LEU:C | 0.51 | 2.27 | 8 | 1 |
| 1:A:826:THR:O | 1:A:829:VAL:HG12 | 0.51 | 2.06 | 10 | 1 |
| 1:A:796:TRP:HA | 1:A:799:LEU:HD22 | 0.51 | 1.82 | 11 | 1 |
| 1:A:693:ILE:HD13 | 1:B:696:ARG:NE | 0.50 | 2.20 | 8 | 1 |
| 1:C:793:LEU:HD13 | 1:C:793:LEU:C | 0.50 | 2.26 | 10 | 1 |
| 1:C:843:ILE:H | 1:C:843:ILE:HD13 | 0.50 | 1.65 | 7 | 1 |
| 1:A:750:ASN:O | 1:A:753:LEU:HD23 | 0.50 | 2.07 | 10 | 1 |
| 1:A:756:ILE:H | 1:A:756:ILE:HD12 | 0.50 | 1.65 | 2 | 1 |
| 1:A:771:LEU:HD23 | 1:A:771:LEU:H | 0.50 | 1.65 | 13 | 1 |
| 1:C:759:ASP:O | 1:C:763:LEU:HD22 | 0.50 | 2.05 | 13 | 1 |
| 1:A:828:ARG:O | 1:A:832:VAL:HG12 | 0.50 | 2.07 | 3 | 5 |
| 1:A:760:LEU:HD11 | 1:C:803:TRP:CZ2 | 0.50 | 2.42 | 3 | 1 |
| 1:B:697:ILE:HD11 | 1:C:696:ARG:HB3 | 0.50 | 1.83 | 3 | 1 |
| 1:C:797:TRP:CD1 | 1:C:847:ILE:HD12 | 0.50 | 2.42 | 4 | 3 |
| 1:A:785:LEU:HD13 | 1:B:749:VAL:CB | 0.50 | 2.36 | 5 | 1 |
| 1:C:778:VAL:O | 1:C:781:ILE:HG22 | 0.50 | 2.07 | 12 | 1 |
| 1:A:754:ALA:HB3 | 1:B:715:LEU:HD22 | 0.50 | 1.81 | 14 | 2 |
| 1:B:675:ILE:HD12 | 1:B:678:TRP:CZ3 | 0.50 | 2.41 | 2 | 1 |
| 1:A:781:ILE:CG2 | 1:B:746:ILE:HG23 | 0.50 | 2.32 | 4 | 1 |
| 1:B:704:LEU:HD13 | 1:C:707:ARG:HA | 0.50 | 1.82 | 4 | 1 |
| 1:A:669:LEU:HD23 | 1:A:670:TRP:CZ3 | 0.50 | 2.41 | 5 | 1 |
| 1:A:753:LEU:C | 1:A:753:LEU:HD12 | 0.50 | 2.27 | 7 | 3 |
| 1:B:778:VAL:HA | 1:B:781:ILE:HD11 | 0.50 | 1.83 | 1 | 1 |
| 1:A:760:LEU:HD21 | 1:C:803:TRP:CZ2 | 0.50 | 2.42 | 5 | 2 |
| 1:A:693:ILE:HD11 | 1:B:696:ARG:HG3 | 0.50 | 1.83 | 6 | 1 |
| 1:B:663:LEU:HD13 | 1:B:663:LEU:O | 0.50 | 2.07 | 7 | 1 |
| 1:C:774:LEU:HD22 | 1:C:774:LEU:C | 0.50 | 2.27 | 12 | 1 |
| 1:A:816:ASN:O | 1:A:820:ILE:HD13 | 0.50 | 2.07 | 3 | 1 |
| 1:C:796:TRP:HA | 1:C:799:LEU:HD22 | 0.50 | 1.84 | 3 | 1 |
| 1:A:746:ILE:HG12 | 1:C:781:ILE:HD13 | 0.50 | 1.84 | 4 | 1 |
| 1:C:790:TRP:CZ3 | 1:C:792:ALA:HB3 | 0.50 | 2.42 | 7 | 1 |
| 1:A:682:ILE:C | 1:A:682:ILE:HD13 | 0.50 | 2.27 | 9 | 1 |
| 1:B:751:GLY:O | 1:C:715:LEU:HD21 | 0.50 | 2.06 | 9 | 1 |
| 1:A:742:ARG:CZ | 1:C:765:LEU:HD11 | 0.50 | 2.36 | 11 | 1 |
| 1:C:698:VAL:HG23 | 1:C:699:PHE:HD2 | 0.50 | 1.66 | 12 | 1 |
| 1:A:764:SER:CB | 1:A:771:LEU:HD12 | 0.50 | 2.37 | 14 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models Worst | Total |
|--------|--------|----------|-------------|--------------|-------|
| 1:A:799:LEU:HD13 | 1:B:756:ILE:HD12 | 0.49 | 1.84 | 3 | 1 |
| 1:C:835:GLY:O | 1:C:839:ALA:HB3 | 0.49 | 2.07 | 5 | 1 |
| 1:B:672:TRP:HB3 | 1:B:675:ILE:HG23 | 0.49 | 1.83 | 14 | 1 |
| 1:A:697:ILE:HD13 | 1:A:698:VAL:N | 0.49 | 2.22 | 3 | 3 |
| 1:B:775:LEU:H | 1:B:775:LEU:HD22 | 0.49 | 1.66 | 6 | 1 |
| 1:C:742:ARG:O | 1:C:746:ILE:HD13 | 0.49 | 2.06 | 6 | 2 |
| 1:A:759:ASP:O | 1:A:763:LEU:HD22 | 0.49 | 2.07 | 8 | 1 |
| 1:B:748:LEU:HD23 | 1:C:714:PRO:CB | 0.49 | 2.37 | 10 | 1 |
| 1:A:750:ASN:ND2 | 1:C:781:ILE:HD11 | 0.49 | 2.22 | 11 | 1 |
| 1:B:826:THR:O | 1:B:829:VAL:HG22 | 0.49 | 2.08 | 15 | 1 |
| 1:A:795:TYR:CE1 | 1:A:796:TRP:CD1 | 0.49 | 3.01 | 7 | 5 |
| 1:A:703:SER:OG | 1:C:700:ALA:HB1 | 0.49 | 2.07 | 6 | 1 |
| 1:C:847:ILE:HD12 | 1:C:848:ARG:N | 0.49 | 2.23 | 7 | 1 |
| 1:C:697:ILE:HD12 | 1:C:698:VAL:N | 0.49 | 2.22 | 8 | 1 |
| 1:A:793:LEU:HD13 | 1:A:847:ILE:CG1 | 0.49 | 2.38 | 2 | 1 |
| 1:B:686:ILE:HG23 | 1:C:686:ILE:CD1 | 0.49 | 2.37 | 3 | 1 |
| 1:B:715:LEU:C | 1:B:715:LEU:HD22 | 0.49 | 2.27 | 15 | 1 |
| 1:A:756:ILE:HD12 | 1:A:756:ILE:N | 0.49 | 2.23 | 6 | 3 |
| 1:C:856:LEU:HD22 | 1:C:856:LEU:C | 0.49 | 2.28 | 7 | 1 |
| 1:A:708:VAL:HG12 | 1:A:741:ASP:CG | 0.49 | 2.28 | 8 | 1 |
| 1:B:843:ILE:H | 1:B:843:ILE:HD13 | 0.49 | 1.66 | 12 | 1 |
| 1:B:695:LEU:HD21 | 1:B:699:PHE:CE2 | 0.49 | 2.42 | 1 | 1 |
| 1:C:685:PHE:O | 1:C:689:VAL:HG23 | 0.49 | 2.07 | 2 | 2 |
| 1:A:708:VAL:HG11 | 1:B:713:SER:HA | 0.49 | 1.83 | 3 | 1 |
| 1:A:791:GLU:HB3 | 1:B:753:LEU:HD23 | 0.49 | 1.85 | 7 | 2 |
| 1:A:793:LEU:CD1 | 1:A:847:ILE:HD11 | 0.49 | 2.38 | 7 | 1 |
| 1:B:694:GLY:HA2 | 1:B:697:ILE:HD13 | 0.49 | 1.84 | 7 | 1 |
| 1:C:793:LEU:HD12 | 1:C:848:ARG:CB | 0.49 | 2.38 | 10 | 1 |
| 1:C:715:LEU:HD22 | 1:C:715:LEU:C | 0.49 | 2.27 | 2 | 1 |
| 1:C:748:LEU:C | 1:C:748:LEU:HD22 | 0.49 | 2.28 | 4 | 1 |
| 1:A:799:LEU:O | 1:A:803:TRP:CD2 | 0.49 | 2.66 | 13 | 2 |
| 1:A:830:ILE:HD13 | 1:A:831:GLU:H | 0.49 | 1.67 | 7 | 1 |
| 1:B:797:TRP:CD2 | 1:B:847:ILE:HD11 | 0.49 | 2.43 | 12 | 1 |
| 1:A:854:ILE:H | 1:A:854:ILE:HD13 | 0.49 | 1.67 | 2 | 1 |
| 1:C:828:ARG:O | 1:C:832:VAL:HG22 | 0.49 | 2.08 | 4 | 4 |
| 1:A:785:LEU:C | 1:A:785:LEU:HD13 | 0.49 | 2.28 | 12 | 1 |
| 1:A:830:ILE:HD12 | 1:A:830:ILE:O | 0.49 | 2.07 | 15 | 1 |
| 1:A:757:TRP:CH2 | 1:B:715:LEU:HD13 | 0.49 | 2.43 | 4 | 1 |
| 1:C:799:LEU:HD23 | 1:C:800:LEU:HG | 0.49 | 1.84 | 4 | 1 |
| 1:A:756:ILE:O | 1:A:760:LEU:HB3 | 0.49 | 2.06 | 15 | 4 |
| 1:A:785:LEU:HD11 | 1:B:746:ILE:HG23 | 0.49 | 1.85 | 5 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:C:819:ALA:HB1 | 1:C:826:THR:HB | 0.49 | 1.85 | 13 | 4 |
| 1:A:792:ALA:HA | 1:A:795:TYR:CE2 | 0.49 | 2.42 | 6 | 1 |
| 1:B:760:LEU:HD12 | 1:B:760:LEU:C | 0.49 | 2.27 | 8 | 1 |
| 1:C:750:ASN:N | 1:C:750:ASN:HD22 | 0.49 | 2.06 | 14 | 1 |
| 1:A:693:ILE:HD11 | 1:B:696:ARG:CD | 0.48 | 2.38 | 1 | 1 |
| 1:B:843:ILE:O | 1:B:843:ILE:HG23 | 0.48 | 2.08 | 1 | 5 |
| 1:B:820:ILE:O | 1:B:822:VAL:N | 0.48 | 2.46 | 4 | 1 |
| 1:B:781:ILE:HD13 | 1:C:746:ILE:CG2 | 0.48 | 2.38 | 6 | 1 |
| 1:A:785:LEU:HD13 | 1:A:785:LEU:C | 0.48 | 2.29 | 14 | 1 |
| 1:A:702:LEU:C | 1:A:702:LEU:HD13 | 0.48 | 2.28 | 15 | 1 |
| 1:C:672:TRP:O | 1:C:674:ASP:N | 0.48 | 2.46 | 15 | 1 |
| 1:A:695:LEU:HD22 | 1:A:696:ARG:NH1 | 0.48 | 2.23 | 3 | 1 |
| 1:C:803:TRP:N | 1:C:803:TRP:HE3 | 0.48 | 2.07 | 7 | 3 |
| 1:B:764:SER:HB2 | 1:B:771:LEU:HD12 | 0.48 | 1.84 | 10 | 1 |
| 1:B:830:ILE:HD13 | 1:B:830:ILE:O | 0.48 | 2.08 | 8 | 1 |
| 1:B:815:LEU:CD2 | 1:B:830:ILE:HD13 | 0.48 | 2.38 | 11 | 1 |
| 1:B:836:ALA:O | 1:B:840:ILE:HD13 | 0.48 | 2.09 | 11 | 1 |
| 1:B:843:ILE:HD13 | 1:B:843:ILE:N | 0.48 | 2.23 | 12 | 1 |
| 1:C:830:ILE:HG22 | 1:C:834:GLN:NE2 | 0.48 | 2.22 | 13 | 1 |
| 1:C:799:LEU:HD23 | 1:C:800:LEU:H | 0.48 | 1.68 | 3 | 1 |
| 1:A:820:ILE:HD11 | 1:A:827:ASP:HB3 | 0.48 | 1.84 | 6 | 1 |
| 1:C:683:ARG:O | 1:C:687:ILE:HD12 | 0.48 | 2.08 | 10 | 1 |
| 1:B:771:LEU:HD23 | 1:B:771:LEU:N | 0.48 | 2.23 | 15 | 2 |
| 1:B:791:GLU:OE2 | 1:C:753:LEU:HD13 | 0.48 | 2.08 | 15 | 1 |
| 1:B:763:LEU:C | 1:B:763:LEU:HD22 | 0.48 | 2.29 | 4 | 1 |
| 1:A:704:LEU:HD12 | 1:B:712:TYR:O | 0.48 | 2.08 | 5 | 1 |
| 1:A:795:TYR:CD2 | 1:B:753:LEU:HA | 0.48 | 2.43 | 6 | 1 |
| 1:B:803:TRP:CH2 | 1:C:768:TYR:CZ | 0.48 | 3.02 | 7 | 1 |
| 1:B:672:TRP:N | 1:B:672:TRP:CD1 | 0.48 | 2.81 | 8 | 2 |
| 1:C:760:LEU:C | 1:C:760:LEU:HD13 | 0.48 | 2.29 | 15 | 1 |
| 1:C:694:GLY:O | 1:C:697:ILE:HG22 | 0.48 | 2.08 | 2 | 1 |
| 1:A:768:TYR:C | 1:A:770:ARG:H | 0.48 | 2.11 | 13 | 3 |
| 1:A:675:ILE:HD11 | 1:A:678:TRP:CE3 | 0.48 | 2.44 | 12 | 1 |
| 1:A:820:ILE:HD11 | 1:A:827:ASP:OD2 | 0.48 | 2.09 | 14 | 1 |
| 1:B:779:THR:O | 1:B:782:VAL:HG12 | 0.48 | 2.09 | 1 | 1 |
| 1:B:742:ARG:O | 1:B:746:ILE:HD12 | 0.48 | 2.09 | 5 | 1 |
| 1:A:771:LEU:HD12 | 1:A:772:ARG:CZ | 0.48 | 2.38 | 7 | 1 |
| 1:A:771:LEU:HD23 | 1:A:771:LEU:N | 0.48 | 2.23 | 13 | 1 |
| 1:A:760:LEU:CD2 | 1:A:763:LEU:HD21 | 0.48 | 2.38 | 14 | 1 |
| 1:B:685:PHE:HA | 1:B:688:ILE:HD12 | 0.48 | 1.85 | 2 | 1 |
| 1:C:828:ARG:O | 1:C:832:VAL:HG13 | 0.48 | 2.09 | 14 | 3 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models Worst | Total |
|---|---|---|---|---|---|
| 1:C:660:LEU:HD12 | 1:C:661:LEU:H | 0.48 | 1.69 | 14 | 1 |
| 1:A:771:LEU:HD22 | 1:A:771:LEU:H | 0.48 | 1.69 | 4 | 2 |
| 1:C:781:ILE:O | 1:C:781:ILE:HD13 | 0.48 | 2.08 | 9 | 1 |
| 1:B:715:LEU:HD12 | 1:B:715:LEU:C | 0.48 | 2.29 | 4 | 1 |
| 1:B:753:LEU:HD22 | 1:B:753:LEU:C | 0.48 | 2.28 | 6 | 2 |
| 1:B:771:LEU:HD23 | 1:B:772:ARG:HD2 | 0.48 | 1.85 | 10 | 1 |
| 1:A:753:LEU:HD22 | 1:A:753:LEU:O | 0.47 | 2.09 | 1 | 2 |
| 1:A:750:ASN:HD21 | 1:C:785:LEU:HD23 | 0.47 | 1.69 | 15 | 2 |
| 1:A:843:ILE:N | 1:A:843:ILE:HD12 | 0.47 | 2.24 | 3 | 1 |
| 1:A:696:ARG:HG3 | 1:C:693:ILE:HD11 | 0.47 | 1.86 | 12 | 2 |
| 1:C:816:ASN:O | 1:C:820:ILE:HD13 | 0.47 | 2.09 | 4 | 1 |
| 1:B:768:TYR:HD1 | 1:B:771:LEU:HD11 | 0.47 | 1.69 | 10 | 1 |
| 1:C:763:LEU:HD22 | 1:C:763:LEU:C | 0.47 | 2.28 | 10 | 1 |
| 1:A:791:GLU:CB | 1:B:753:LEU:HD22 | 0.47 | 2.39 | 12 | 1 |
| 1:B:697:ILE:HD11 | 1:C:699:PHE:CE1 | 0.47 | 2.44 | 1 | 1 |
| 1:C:830:ILE:HD13 | 1:C:830:ILE:C | 0.47 | 2.30 | 7 | 2 |
| 1:B:686:ILE:HG23 | 1:C:686:ILE:HD11 | 0.47 | 1.84 | 3 | 1 |
| 1:A:785:LEU:HD13 | 1:B:749:VAL:CG2 | 0.47 | 2.38 | 5 | 1 |
| 1:A:692:LEU:HD23 | 1:C:693:ILE:CD1 | 0.47 | 2.38 | 6 | 1 |
| 1:A:799:LEU:HD13 | 1:B:756:ILE:HG22 | 0.47 | 1.84 | 9 | 1 |
| 1:B:785:LEU:HD21 | 1:C:747:ARG:NH1 | 0.47 | 2.24 | 15 | 1 |
| 1:B:803:TRP:CE3 | 1:B:803:TRP:N | 0.47 | 2.83 | 4 | 3 |
| 1:B:742:ARG:O | 1:B:746:ILE:HD13 | 0.47 | 2.09 | 3 | 1 |
| 1:B:808:LYS:O | 1:B:812:VAL:HG12 | 0.47 | 2.09 | 14 | 3 |
| 1:A:792:ALA:O | 1:A:795:TYR:CD2 | 0.47 | 2.67 | 14 | 4 |
| 1:B:669:LEU:C | 1:B:669:LEU:HD12 | 0.47 | 2.30 | 8 | 1 |
| 1:B:797:TRP:CE2 | 1:B:847:ILE:HD11 | 0.47 | 2.44 | 10 | 1 |
| 1:B:815:LEU:HD21 | 1:B:830:ILE:HD13 | 0.47 | 1.85 | 11 | 1 |
| 1:B:820:ILE:HD11 | 1:B:827:ASP:HB2 | 0.47 | 1.86 | 11 | 1 |
| 1:A:774:LEU:HD21 | 1:B:742:ARG:NH2 | 0.47 | 2.24 | 13 | 1 |
| 1:B:705:VAL:HG12 | 1:B:709:ARG:NH2 | 0.47 | 2.24 | 13 | 1 |
| 1:A:796:TRP:NE1 | 1:B:756:ILE:HD13 | 0.47 | 2.23 | 1 | 1 |
| 1:A:851:LEU:HD13 | 1:A:851:LEU:O | 0.47 | 2.08 | 4 | 1 |
| 1:B:806:GLU:OE2 | 1:C:771:LEU:HD21 | 0.47 | 2.09 | 4 | 1 |
| 1:A:793:LEU:HD12 | 1:A:797:TRP:HE1 | 0.47 | 1.67 | 11 | 1 |
| 1:B:675:ILE:HD12 | 1:B:678:TRP:CE3 | 0.47 | 2.45 | 2 | 2 |
| 1:B:855:LEU:HD23 | 1:B:855:LEU:O | 0.47 | 2.09 | 1 | 1 |
| 1:A:663:LEU:HD13 | 1:A:663:LEU:C | 0.47 | 2.29 | 14 | 2 |
| 1:B:771:LEU:HD13 | 1:B:771:LEU:H | 0.47 | 1.68 | 6 | 1 |
| 1:C:799:LEU:O | 1:C:803:TRP:CE3 | 0.47 | 2.68 | 7 | 1 |
| 1:B:854:ILE:O | 1:B:854:ILE:HG22 | 0.47 | 2.09 | 2 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models Worst | Total |
|---|---|---|---|---|---|
| 1:B:793:LEU:HD12 | 1:B:797:TRP:NE1 | 0.47 | 2.25 | 3 | 1 |
| 1:C:808:LYS:O | 1:C:812:VAL:HG23 | 0.47 | 2.09 | 4 | 5 |
| 1:B:768:TYR:CD1 | 1:B:771:LEU:HD11 | 0.47 | 2.43 | 10 | 1 |
| 1:A:774:LEU:HD13 | 1:A:774:LEU:C | 0.47 | 2.30 | 4 | 3 |
| 1:B:785:LEU:HD21 | 1:C:750:ASN:ND2 | 0.47 | 2.24 | 2 | 1 |
| 1:A:742:ARG:O | 1:A:746:ILE:HD12 | 0.47 | 2.10 | 6 | 1 |
| 1:B:700:ALA:HB1 | 1:C:703:SER:OG | 0.47 | 2.10 | 10 | 1 |
| 1:C:775:LEU:HD22 | 1:C:775:LEU:O | 0.47 | 2.09 | 11 | 1 |
| 1:A:705:VAL:HG11 | 1:A:745:SER:CB | 0.47 | 2.39 | 12 | 1 |
| 1:A:847:ILE:HG23 | 1:A:848:ARG:N | 0.47 | 2.25 | 12 | 1 |
| 1:C:663:LEU:HD13 | 1:C:663:LEU:H | 0.47 | 1.69 | 12 | 1 |
| 1:B:660:LEU:N | 1:B:660:LEU:HD12 | 0.47 | 2.25 | 13 | 1 |
| 1:A:753:LEU:HA | 1:C:791:GLU:OE2 | 0.47 | 2.09 | 14 | 1 |
| 1:A:770:ARG:O | 1:A:774:LEU:N | 0.47 | 2.48 | 11 | 5 |
| 1:A:715:LEU:HD12 | 1:C:751:GLY:HA3 | 0.47 | 1.87 | 2 | 1 |
| 1:B:687:ILE:HD12 | 1:B:687:ILE:H | 0.47 | 1.69 | 2 | 1 |
| 1:B:754:ALA:HB1 | 1:C:715:LEU:HB3 | 0.47 | 1.87 | 3 | 1 |
| 1:C:808:LYS:O | 1:C:812:VAL:HG12 | 0.47 | 2.09 | 11 | 2 |
| 1:A:760:LEU:HD22 | 1:A:760:LEU:C | 0.47 | 2.30 | 13 | 1 |
| 1:A:753:LEU:HD13 | 1:A:753:LEU:C | 0.47 | 2.30 | 15 | 1 |
| 1:A:765:LEU:HD12 | 1:A:770:ARG:HH21 | 0.47 | 1.68 | 1 | 1 |
| 1:C:829:VAL:O | 1:C:833:VAL:HG12 | 0.47 | 2.09 | 1 | 1 |
| 1:A:781:ILE:HG21 | 1:B:746:ILE:HG21 | 0.47 | 1.87 | 8 | 2 |
| 1:B:710:GLN:CD | 1:B:715:LEU:HD21 | 0.47 | 2.30 | 3 | 1 |
| 1:A:746:ILE:CG2 | 1:C:781:ILE:HG21 | 0.47 | 2.40 | 5 | 3 |
| 1:A:750:ASN:HD21 | 1:C:785:LEU:HD13 | 0.47 | 1.69 | 6 | 1 |
| 1:B:705:VAL:CG2 | 1:B:748:LEU:HD13 | 0.47 | 2.40 | 6 | 1 |
| 1:C:793:LEU:HD12 | 1:C:848:ARG:HB2 | 0.47 | 1.87 | 10 | 1 |
| 1:A:836:ALA:O | 1:A:840:ILE:HD13 | 0.47 | 2.09 | 11 | 1 |
| 1:B:794:LYS:HD3 | 1:B:795:TYR:N | 0.47 | 2.25 | 2 | 5 |
| 1:C:790:TRP:C | 1:C:792:ALA:N | 0.47 | 2.68 | 5 | 5 |
| 1:A:791:GLU:O | 1:A:795:TYR:CD2 | 0.47 | 2.68 | 6 | 1 |
| 1:C:750:ASN:O | 1:C:753:LEU:HD12 | 0.47 | 2.10 | 7 | 1 |
| 1:A:663:LEU:HD13 | 1:B:660:LEU:CB | 0.47 | 2.40 | 8 | 1 |
| 1:A:707:ARG:NH2 | 1:A:712:TYR:CZ | 0.47 | 2.83 | 11 | 1 |
| 1:A:669:LEU:HD12 | 1:A:676:THR:HG23 | 0.46 | 1.86 | 1 | 1 |
| 1:B:793:LEU:C | 1:B:793:LEU:HD13 | 0.46 | 2.30 | 12 | 2 |
| 1:C:847:ILE:H | 1:C:847:ILE:HD13 | 0.46 | 1.69 | 9 | 2 |
| 1:B:847:ILE:C | 1:B:847:ILE:HD13 | 0.46 | 2.30 | 15 | 1 |
| 1:B:796:TRP:CD1 | 1:C:756:ILE:HD11 | 0.46 | 2.45 | 3 | 1 |
| 1:C:832:VAL:O | 1:C:836:ALA:HB2 | 0.46 | 2.10 | 5 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:820:ILE:HD12 | 1:A:820:ILE:N | 0.46 | 2.25 | 12 | 3 |
| 1:A:755:LEU:HD22 | 1:A:755:LEU:C | 0.46 | 2.30 | 8 | 1 |
| 1:A:790:TRP:CE2 | 1:A:793:LEU:HD23 | 0.46 | 2.45 | 15 | 2 |
| 1:A:707:ARG:HB3 | 1:C:704:LEU:HD21 | 0.46 | 1.86 | 12 | 2 |
| 1:A:802:TYR:CD1 | 1:B:768:TYR:CZ | 0.46 | 3.03 | 14 | 1 |
| 1:B:799:LEU:HD13 | 1:C:756:ILE:HG23 | 0.46 | 1.87 | 2 | 1 |
| 1:C:687:ILE:H | 1:C:687:ILE:HD12 | 0.46 | 1.70 | 13 | 1 |
| 1:A:771:LEU:H | 1:A:771:LEU:CD1 | 0.46 | 2.22 | 15 | 1 |
| 1:A:678:TRP:CD1 | 1:A:682:ILE:HD13 | 0.46 | 2.45 | 2 | 2 |
| 1:B:822:VAL:HG12 | 1:B:826:THR:CG2 | 0.46 | 2.38 | 8 | 1 |
| 1:B:760:LEU:HD22 | 1:B:760:LEU:C | 0.46 | 2.30 | 12 | 4 |
| 1:B:679:LEU:HD13 | 1:B:679:LEU:O | 0.46 | 2.10 | 5 | 1 |
| 1:A:692:LEU:HD23 | 1:C:693:ILE:HD11 | 0.46 | 1.87 | 6 | 1 |
| 1:B:828:ARG:O | 1:B:832:VAL:HG13 | 0.46 | 2.11 | 10 | 3 |
| 1:B:684:ILE:HD12 | 1:B:684:ILE:N | 0.46 | 2.25 | 8 | 3 |
| 1:C:826:THR:O | 1:C:829:VAL:HG22 | 0.46 | 2.10 | 11 | 1 |
| 1:A:771:LEU:HD13 | 1:A:771:LEU:N | 0.46 | 2.23 | 15 | 2 |
| 1:C:790:TRP:CE3 | 1:C:793:LEU:HD12 | 0.46 | 2.46 | 5 | 1 |
| 1:A:763:LEU:HB2 | 1:A:774:LEU:HD22 | 0.46 | 1.88 | 7 | 1 |
| 1:C:843:ILE:HD13 | 1:C:843:ILE:O | 0.46 | 2.10 | 13 | 1 |
| 1:A:779:THR:O | 1:A:782:VAL:HG12 | 0.46 | 2.10 | 2 | 1 |
| 1:C:856:LEU:HD22 | 1:C:856:LEU:O | 0.46 | 2.11 | 7 | 1 |
| 1:A:819:ALA:HB3 | 1:A:827:ASP:CG | 0.46 | 2.31 | 10 | 1 |
| 1:B:669:LEU:HD12 | 1:B:676:THR:HG23 | 0.46 | 1.86 | 1 | 1 |
| 1:A:847:ILE:HD13 | 1:A:847:ILE:H | 0.46 | 1.70 | 3 | 1 |
| 1:C:764:SER:O | 1:C:765:LEU:O | 0.46 | 2.33 | 7 | 1 |
| 1:B:843:ILE:HD13 | 1:B:844:PRO:N | 0.46 | 2.26 | 11 | 1 |
| 1:A:707:ARG:CG | 1:C:704:LEU:HD11 | 0.46 | 2.40 | 1 | 1 |
| 1:A:790:TRP:C | 1:A:792:ALA:N | 0.46 | 2.67 | 2 | 13 |
| 1:C:663:LEU:HD13 | 1:C:664:ASP:H | 0.46 | 1.71 | 2 | 1 |
| 1:A:693:ILE:HG13 | 1:B:693:ILE:HG22 | 0.46 | 1.88 | 5 | 1 |
| 1:A:700:ALA:HB1 | 1:B:703:SER:OG | 0.46 | 2.11 | 6 | 1 |
| 1:A:753:LEU:HD22 | 1:C:788:ARG:O | 0.46 | 2.10 | 8 | 1 |
| 1:C:705:VAL:HG22 | 1:C:748:LEU:HD11 | 0.46 | 1.87 | 9 | 1 |
| 1:C:822:VAL:HG22 | 1:C:823:GLY:N | 0.46 | 2.26 | 12 | 1 |
| 1:A:843:ILE:O | 1:A:843:ILE:HG23 | 0.46 | 2.11 | 14 | 1 |
| 1:B:774:LEU:O | 1:B:777:ILE:HG13 | 0.46 | 2.11 | 14 | 1 |
| 1:C:819:ALA:HB3 | 1:C:826:THR:CG2 | 0.46 | 2.24 | 14 | 1 |
| 1:A:847:ILE:HD13 | 1:A:847:ILE:N | 0.46 | 2.26 | 1 | 1 |
| 1:A:781:ILE:HG21 | 1:B:746:ILE:HG22 | 0.46 | 1.87 | 2 | 1 |
| 1:C:675:ILE:HD12 | 1:C:678:TRP:CE3 | 0.46 | 2.45 | 8 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:686:ILE:CD1 | 1:C:686:ILE:HG21 | 0.46 | 2.41 | 5 | 1 |
| 1:C:661:LEU:HD22 | 1:C:661:LEU:N | 0.46 | 2.26 | 6 | 1 |
| 1:C:790:TRP:CH2 | 1:C:851:LEU:HD22 | 0.46 | 2.46 | 6 | 1 |
| 1:B:830:ILE:HD13 | 1:B:830:ILE:C | 0.46 | 2.30 | 8 | 1 |
| 1:B:705:VAL:HG22 | 1:C:714:PRO:HG3 | 0.46 | 1.87 | 10 | 1 |
| 1:C:799:LEU:HD22 | 1:C:803:TRP:CE2 | 0.46 | 2.44 | 11 | 1 |
| 1:A:796:TRP:CD1 | 1:A:799:LEU:HD12 | 0.46 | 2.45 | 15 | 1 |
| 1:C:662:GLU:O | 1:C:663:LEU:HD12 | 0.46 | 2.10 | 15 | 1 |
| 1:A:803:TRP:CE3 | 1:A:803:TRP:N | 0.45 | 2.84 | 3 | 2 |
| 1:B:667:ALA:HB2 | 1:C:660:LEU:CD2 | 0.45 | 2.41 | 5 | 1 |
| 1:B:750:ASN:ND2 | 1:B:750:ASN:H | 0.45 | 2.09 | 6 | 3 |
| 1:B:812:VAL:HG21 | 1:B:834:GLN:HG3 | 0.45 | 1.87 | 8 | 1 |
| 1:C:819:ALA:HB1 | 1:C:826:THR:CB | 0.45 | 2.41 | 8 | 1 |
| 1:C:763:LEU:C | 1:C:774:LEU:HD13 | 0.45 | 2.31 | 9 | 1 |
| 1:A:829:VAL:O | 1:A:833:VAL:HG12 | 0.45 | 2.11 | 15 | 1 |
| 1:C:778:VAL:HA | 1:C:781:ILE:HD12 | 0.45 | 1.87 | 4 | 1 |
| 1:A:693:ILE:O | 1:A:693:ILE:HD13 | 0.45 | 2.12 | 5 | 2 |
| 1:B:775:LEU:HD13 | 1:B:776:LEU:N | 0.45 | 2.26 | 11 | 1 |
| 1:B:711:GLY:O | 1:B:713:SER:N | 0.45 | 2.48 | 12 | 1 |
| 1:A:714:PRO:CG | 1:C:705:VAL:HG22 | 0.45 | 2.41 | 1 | 2 |
| 1:C:713:SER:O | 1:C:714:PRO:C | 0.45 | 2.54 | 2 | 5 |
| 1:B:675:ILE:HD13 | 1:B:675:ILE:C | 0.45 | 2.32 | 8 | 1 |
| 1:A:777:ILE:O | 1:A:781:ILE:HD12 | 0.45 | 2.11 | 9 | 1 |
| 1:B:792:ALA:HA | 1:B:795:TYR:CZ | 0.45 | 2.47 | 11 | 1 |
| 1:C:822:VAL:HG13 | 1:C:823:GLY:H | 0.45 | 1.71 | 12 | 1 |
| 1:A:702:LEU:HD13 | 1:A:706:ASN:OD1 | 0.45 | 2.12 | 1 | 1 |
| 1:B:771:LEU:HA | 1:B:774:LEU:HD23 | 0.45 | 1.88 | 2 | 1 |
| 1:A:795:TYR:CZ | 1:A:796:TRP:CD1 | 0.45 | 3.05 | 5 | 2 |
| 1:B:834:GLN:HG3 | 1:B:835:GLY:N | 0.45 | 2.26 | 5 | 1 |
| 1:C:705:VAL:HG21 | 1:C:748:LEU:HD22 | 0.45 | 1.88 | 5 | 1 |
| 1:A:756:ILE:HG23 | 1:C:799:LEU:CD2 | 0.45 | 2.41 | 12 | 1 |
| 1:A:689:VAL:O | 1:A:692:LEU:HD11 | 0.45 | 2.10 | 13 | 1 |
| 1:A:833:VAL:HG23 | 1:A:834:GLN:NE2 | 0.45 | 2.27 | 6 | 1 |
| 1:C:785:LEU:HD12 | 1:C:786:GLY:N | 0.45 | 2.27 | 6 | 1 |
| 1:B:697:ILE:HD12 | 1:B:697:ILE:N | 0.45 | 2.26 | 7 | 1 |
| 1:B:753:LEU:O | 1:B:756:ILE:HG22 | 0.45 | 2.12 | 15 | 2 |
| 1:A:693:ILE:HG21 | 1:B:693:ILE:HG22 | 0.45 | 1.87 | 11 | 2 |
| 1:A:791:GLU:OE2 | 1:B:753:LEU:HD13 | 0.45 | 2.10 | 12 | 2 |
| 1:B:820:ILE:HD11 | 1:B:827:ASP:CB | 0.45 | 2.41 | 11 | 1 |
| 1:A:683:ARG:O | 1:A:687:ILE:HD12 | 0.45 | 2.11 | 13 | 1 |
| 1:B:678:TRP:CD1 | 1:B:678:TRP:C | 0.45 | 2.90 | 12 | 5 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:816:ASN:HA | 1:A:830:ILE:HG21 | 0.45 | 1.89 | 8 | 1 |
| 1:A:778:VAL:O | 1:A:782:VAL:HG23 | 0.45 | 2.11 | 9 | 1 |
| 1:C:760:LEU:HD22 | 1:C:760:LEU:C | 0.45 | 2.31 | 1 | 1 |
| 1:A:851:LEU:C | 1:A:851:LEU:HD13 | 0.45 | 2.32 | 15 | 3 |
| 1:A:750:ASN:CG | 1:C:785:LEU:HD21 | 0.45 | 2.32 | 4 | 1 |
| 1:A:744:ARG:O | 1:A:747:ARG:HB2 | 0.45 | 2.12 | 9 | 1 |
| 1:B:791:GLU:HB3 | 1:C:753:LEU:HD23 | 0.45 | 1.89 | 9 | 1 |
| 1:B:762:SER:O | 1:B:765:LEU:HD23 | 0.45 | 2.11 | 14 | 1 |
| 1:A:678:TRP:C | 1:A:678:TRP:CD1 | 0.45 | 2.90 | 9 | 2 |
| 1:A:705:VAL:HG21 | 1:A:748:LEU:CD1 | 0.45 | 2.40 | 10 | 1 |
| 1:A:828:ARG:O | 1:A:832:VAL:HG23 | 0.45 | 2.12 | 9 | 2 |
| 1:B:760:LEU:HD13 | 1:B:760:LEU:C | 0.45 | 2.32 | 1 | 1 |
| 1:B:744:ARG:O | 1:B:747:ARG:HB2 | 0.45 | 2.11 | 3 | 1 |
| 1:A:791:GLU:HG2 | 1:B:753:LEU:HD23 | 0.45 | 1.89 | 10 | 1 |
| 1:B:791:GLU:OE1 | 1:C:753:LEU:HD23 | 0.45 | 2.12 | 11 | 1 |
| 1:A:686:ILE:CG1 | 1:B:686:ILE:HD11 | 0.45 | 2.42 | 12 | 1 |
| 1:B:704:LEU:HD13 | 1:C:707:ARG:HB2 | 0.45 | 1.89 | 13 | 1 |
| 1:C:776:LEU:O | 1:C:776:LEU:HD23 | 0.45 | 2.11 | 14 | 2 |
| 1:C:678:TRP:C | 1:C:678:TRP:CD1 | 0.45 | 2.91 | 7 | 1 |
| 1:A:756:ILE:HG23 | 1:C:799:LEU:HD21 | 0.45 | 1.89 | 12 | 1 |
| 1:A:692:LEU:HD12 | 1:A:693:ILE:H | 0.45 | 1.71 | 13 | 1 |
| 1:C:843:ILE:N | 1:C:844:PRO:CD | 0.45 | 2.80 | 13 | 2 |
| 1:B:753:LEU:HD13 | 1:B:753:LEU:C | 0.44 | 2.32 | 7 | 2 |
| 1:A:819:ALA:O | 1:A:822:VAL:HG22 | 0.44 | 2.12 | 11 | 1 |
| 1:B:771:LEU:HD22 | 1:B:771:LEU:H | 0.44 | 1.72 | 1 | 1 |
| 1:B:663:LEU:C | 1:B:663:LEU:HD13 | 0.44 | 2.33 | 2 | 1 |
| 1:C:695:LEU:C | 1:C:695:LEU:HD23 | 0.44 | 2.32 | 6 | 1 |
| 1:A:777:ILE:HD12 | 1:A:778:VAL:N | 0.44 | 2.28 | 8 | 1 |
| 1:B:771:LEU:HD23 | 1:B:772:ARG:CD | 0.44 | 2.42 | 10 | 1 |
| 1:B:803:TRP:CE3 | 1:C:768:TYR:CZ | 0.44 | 3.05 | 13 | 1 |
| 1:A:760:LEU:HD23 | 1:C:799:LEU:CD2 | 0.44 | 2.41 | 1 | 1 |
| 1:A:790:TRP:CE3 | 1:A:790:TRP:HA | 0.44 | 2.47 | 5 | 2 |
| 1:B:855:LEU:HD13 | 1:B:855:LEU:C | 0.44 | 2.33 | 2 | 1 |
| 1:C:829:VAL:O | 1:C:833:VAL:HG23 | 0.44 | 2.12 | 4 | 2 |
| 1:A:663:LEU:HD11 | 1:B:660:LEU:HB2 | 0.44 | 1.88 | 5 | 1 |
| 1:A:750:ASN:ND2 | 1:C:785:LEU:HD13 | 0.44 | 2.26 | 6 | 1 |
| 1:A:771:LEU:C | 1:A:771:LEU:CD1 | 0.44 | 2.86 | 7 | 1 |
| 1:A:795:TYR:CE2 | 1:A:796:TRP:CD1 | 0.44 | 3.06 | 14 | 2 |
| 1:B:704:LEU:HD13 | 1:B:704:LEU:O | 0.44 | 2.13 | 9 | 1 |
| 1:C:771:LEU:HD13 | 1:C:771:LEU:N | 0.44 | 2.26 | 10 | 1 |
| 1:B:704:LEU:HD21 | 1:C:707:ARG:HA | 0.44 | 1.90 | 2 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:756:ILE:O | 1:B:760:LEU:HB3 | 0.44 | 2.12 | 11 | 2 |
| 1:C:816:ASN:OD1 | 1:C:830:ILE:HG21 | 0.44 | 2.13 | 3 | 1 |
| 1:B:693:ILE:HD13 | 1:C:696:ARG:NE | 0.44 | 2.26 | 12 | 1 |
| 1:A:669:LEU:HD22 | 1:A:669:LEU:N | 0.44 | 2.27 | 3 | 1 |
| 1:C:763:LEU:HD23 | 1:C:763:LEU:C | 0.44 | 2.33 | 3 | 2 |
| 1:A:795:TYR:HA | 1:B:756:ILE:HD13 | 0.44 | 1.88 | 5 | 1 |
| 1:C:705:VAL:HG21 | 1:C:748:LEU:HD12 | 0.44 | 1.88 | 7 | 1 |
| 1:A:693:ILE:HD11 | 1:B:696:ARG:CZ | 0.44 | 2.41 | 4 | 1 |
| 1:B:775:LEU:C | 1:B:775:LEU:HD13 | 0.44 | 2.33 | 4 | 1 |
| 1:B:699:PHE:CD2 | 1:B:702:LEU:HD23 | 0.44 | 2.47 | 12 | 1 |
| 1:A:741:ASP:O | 1:A:745:SER:N | 0.44 | 2.50 | 3 | 2 |
| 1:A:755:LEU:HD13 | 1:A:755:LEU:C | 0.44 | 2.32 | 8 | 1 |
| 1:B:816:ASN:OD1 | 1:B:830:ILE:HD11 | 0.44 | 2.12 | 1 | 1 |
| 1:B:790:TRP:C | 1:B:792:ALA:N | 0.44 | 2.71 | 14 | 7 |
| 1:B:713:SER:O | 1:B:714:PRO:C | 0.44 | 2.57 | 4 | 6 |
| 1:C:756:ILE:O | 1:C:760:LEU:HG | 0.44 | 2.13 | 4 | 1 |
| 1:B:763:LEU:O | 1:B:774:LEU:CB | 0.44 | 2.66 | 14 | 2 |
| 1:B:806:GLU:HG3 | 1:C:771:LEU:HD11 | 0.44 | 1.90 | 5 | 1 |
| 1:C:765:LEU:HD12 | 1:C:765:LEU:C | 0.44 | 2.32 | 7 | 1 |
| 1:C:682:ILE:HD13 | 1:C:683:ARG:H | 0.44 | 1.71 | 8 | 1 |
| 1:A:747:ARG:NE | 1:C:785:LEU:HD21 | 0.44 | 2.27 | 9 | 1 |
| 1:A:820:ILE:HD12 | 1:A:827:ASP:CG | 0.44 | 2.32 | 10 | 1 |
| 1:C:793:LEU:O | 1:C:797:TRP:CD1 | 0.44 | 2.71 | 12 | 1 |
| 1:B:819:ALA:CB | 1:B:830:ILE:HD11 | 0.44 | 2.42 | 15 | 1 |
| 1:A:712:TYR:O | 1:C:704:LEU:HD11 | 0.44 | 2.13 | 3 | 2 |
| 1:B:774:LEU:O | 1:B:778:VAL:HG23 | 0.44 | 2.12 | 3 | 1 |
| 1:A:826:THR:O | 1:A:830:ILE:HD12 | 0.44 | 2.12 | 5 | 1 |
| 1:B:771:LEU:H | 1:B:771:LEU:HD22 | 0.44 | 1.73 | 10 | 2 |
| 1:C:822:VAL:HG12 | 1:C:822:VAL:O | 0.44 | 2.12 | 10 | 1 |
| 1:A:771:LEU:O | 1:A:774:LEU:HD23 | 0.44 | 2.13 | 12 | 1 |
| 1:B:756:ILE:C | 1:B:756:ILE:HD13 | 0.44 | 2.33 | 13 | 1 |
| 1:A:753:LEU:C | 1:A:753:LEU:CD2 | 0.43 | 2.85 | 6 | 2 |
| 1:C:673:PHE:O | 1:C:674:ASP:CB | 0.43 | 2.66 | 2 | 1 |
| 1:B:797:TRP:CD1 | 1:B:847:ILE:HG21 | 0.43 | 2.48 | 3 | 1 |
| 1:A:795:TYR:CD1 | 1:B:756:ILE:HD13 | 0.43 | 2.48 | 6 | 1 |
| 1:B:754:ALA:HB1 | 1:C:715:LEU:O | 0.43 | 2.13 | 6 | 1 |
| 1:A:760:LEU:HD23 | 1:A:763:LEU:HD21 | 0.43 | 1.89 | 7 | 1 |
| 1:B:796:TRP:CD1 | 1:C:756:ILE:HD13 | 0.43 | 2.48 | 7 | 1 |
| 1:B:710:GLN:OE1 | 1:B:715:LEU:HD11 | 0.43 | 2.13 | 8 | 1 |
| 1:A:715:LEU:O | 1:C:754:ALA:HB1 | 0.43 | 2.13 | 9 | 1 |
| 1:B:663:LEU:C | 1:B:663:LEU:HD12 | 0.43 | 2.33 | 9 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:B:769:HIS:N | 1:B:771:LEU:HD22 | 0.43 | 2.28 | 11 | 1 |
| 1:C:703:SER:O | 1:C:706:ASN:ND2 | 0.43 | 2.52 | 11 | 1 |
| 1:B:803:TRP:CE2 | 1:C:768:TYR:OH | 0.43 | 2.65 | 13 | 1 |
| 1:A:679:LEU:HD21 | 1:C:683:ARG:HH12 | 0.43 | 1.73 | 15 | 1 |
| 1:A:686:ILE:CG2 | 1:B:686:ILE:HD11 | 0.43 | 2.43 | 15 | 1 |
| 1:B:688:ILE:HD12 | 1:B:688:ILE:N | 0.43 | 2.28 | 10 | 3 |
| 1:B:774:LEU:C | 1:B:774:LEU:HD13 | 0.43 | 2.33 | 4 | 1 |
| 1:C:799:LEU:O | 1:C:803:TRP:CE2 | 0.43 | 2.71 | 5 | 1 |
| 1:C:695:LEU:HD23 | 1:C:695:LEU:O | 0.43 | 2.13 | 6 | 1 |
| 1:C:790:TRP:O | 1:C:790:TRP:CD1 | 0.43 | 2.71 | 6 | 1 |
| 1:C:749:VAL:HG23 | 1:C:750:ASN:N | 0.43 | 2.29 | 8 | 1 |
| 1:A:753:LEU:HA | 1:C:791:GLU:CD | 0.43 | 2.34 | 14 | 1 |
| 1:A:771:LEU:HD21 | 1:C:806:GLU:HG2 | 0.43 | 1.89 | 15 | 1 |
| 1:A:678:TRP:CD1 | 1:A:678:TRP:C | 0.43 | 2.91 | 11 | 6 |
| 1:B:702:LEU:C | 1:B:702:LEU:CD1 | 0.43 | 2.87 | 10 | 2 |
| 1:B:774:LEU:HD13 | 1:B:774:LEU:O | 0.43 | 2.13 | 10 | 1 |
| 1:B:855:LEU:C | 1:B:855:LEU:HD12 | 0.43 | 2.33 | 11 | 1 |
| 1:C:822:VAL:HG22 | 1:C:822:VAL:O | 0.43 | 2.12 | 11 | 1 |
| 1:B:768:TYR:O | 1:B:771:LEU:CD1 | 0.43 | 2.66 | 12 | 1 |
| 1:A:663:LEU:O | 1:A:663:LEU:HD23 | 0.43 | 2.14 | 15 | 1 |
| 1:A:830:ILE:HG23 | 1:A:831:GLU:N | 0.43 | 2.29 | 1 | 1 |
| 1:A:693:ILE:HD13 | 1:A:693:ILE:C | 0.43 | 2.34 | 3 | 1 |
| 1:B:707:ARG:NH1 | 1:C:712:TYR:O | 0.43 | 2.52 | 7 | 1 |
| 1:B:847:ILE:HD11 | 1:B:851:LEU:CD1 | 0.43 | 2.44 | 7 | 1 |
| 1:B:768:TYR:O | 1:B:769:HIS:CG | 0.43 | 2.71 | 8 | 1 |
| 1:B:836:ALA:O | 1:B:840:ILE:HD12 | 0.43 | 2.13 | 8 | 2 |
| 1:C:778:VAL:O | 1:C:782:VAL:HG23 | 0.43 | 2.13 | 15 | 1 |
| 1:A:747:ARG:O | 1:A:750:ASN:N | 0.43 | 2.52 | 4 | 2 |
| 1:B:785:LEU:HD23 | 1:C:750:ASN:CB | 0.43 | 2.43 | 10 | 1 |
| 1:C:742:ARG:O | 1:C:746:ILE:HD12 | 0.43 | 2.14 | 12 | 1 |
| 1:C:851:LEU:O | 1:C:851:LEU:HD13 | 0.43 | 2.14 | 12 | 1 |
| 1:B:771:LEU:HD23 | 1:B:771:LEU:H | 0.43 | 1.73 | 13 | 1 |
| 1:A:704:LEU:N | 1:A:704:LEU:HD22 | 0.43 | 2.28 | 14 | 1 |
| 1:A:756:ILE:O | 1:A:760:LEU:CD1 | 0.43 | 2.67 | 4 | 1 |
| 1:B:803:TRP:HH2 | 1:C:760:LEU:HD22 | 0.43 | 1.69 | 4 | 1 |
| 1:C:702:LEU:HD13 | 1:C:702:LEU:C | 0.43 | 2.33 | 4 | 2 |
| 1:B:812:VAL:HG12 | 1:B:816:ASN:OD1 | 0.43 | 2.13 | 8 | 1 |
| 1:B:748:LEU:C | 1:B:748:LEU:HD12 | 0.43 | 2.34 | 9 | 1 |
| 1:C:851:LEU:HD13 | 1:C:851:LEU:C | 0.43 | 2.34 | 12 | 1 |
| 1:A:771:LEU:HD21 | 1:C:806:GLU:HB2 | 0.43 | 1.90 | 14 | 1 |
| 1:B:760:LEU:C | 1:B:760:LEU:HD23 | 0.43 | 2.34 | 15 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models Worst | Total |
|---|---|---|---|---|---|
| 1:C:775:LEU:C | 1:C:775:LEU:HD13 | 0.43 | 2.34 | 15 | 1 |
| 1:C:797:TRP:HE1 | 1:C:847:ILE:HD13 | 0.43 | 1.74 | 2 | 1 |
| 1:A:747:ARG:O | 1:A:750:ASN:HB2 | 0.43 | 2.12 | 4 | 1 |
| 1:A:822:VAL:CG2 | 1:A:826:THR:HG21 | 0.43 | 2.44 | 5 | 1 |
| 1:B:763:LEU:HD22 | 1:B:764:SER:H | 0.43 | 1.73 | 7 | 1 |
| 1:A:832:VAL:HG23 | 1:A:833:VAL:N | 0.43 | 2.28 | 11 | 2 |
| 1:A:847:ILE:HD12 | 1:A:848:ARG:N | 0.43 | 2.28 | 11 | 2 |
| 1:B:750:ASN:HD22 | 1:B:750:ASN:N | 0.43 | 2.12 | 11 | 1 |
| 1:B:669:LEU:HD22 | 1:B:679:LEU:HD22 | 0.43 | 1.90 | 13 | 1 |
| 1:B:812:VAL:HG22 | 1:B:816:ASN:OD1 | 0.43 | 2.14 | 14 | 1 |
| 1:C:660:LEU:HD12 | 1:C:661:LEU:N | 0.43 | 2.29 | 14 | 1 |
| 1:B:704:LEU:HD11 | 1:C:707:ARG:HB3 | 0.43 | 1.89 | 2 | 1 |
| 1:C:689:VAL:O | 1:C:693:ILE:HG23 | 0.43 | 2.14 | 3 | 1 |
| 1:C:763:LEU:HD23 | 1:C:764:SER:N | 0.43 | 2.29 | 13 | 3 |
| 1:B:850:GLY:O | 1:B:854:ILE:HD12 | 0.43 | 2.14 | 4 | 1 |
| 1:B:799:LEU:HD12 | 1:C:756:ILE:HD12 | 0.43 | 1.91 | 6 | 1 |
| 1:B:662:GLU:O | 1:B:663:LEU:CB | 0.43 | 2.67 | 7 | 1 |
| 1:A:795:TYR:HB2 | 1:B:756:ILE:HB | 0.43 | 1.91 | 8 | 1 |
| 1:B:797:TRP:HE1 | 1:B:847:ILE:HG21 | 0.43 | 1.74 | 9 | 1 |
| 1:A:795:TYR:OH | 1:B:755:LEU:HD23 | 0.43 | 2.13 | 11 | 1 |
| 1:A:704:LEU:HD11 | 1:B:707:ARG:HG2 | 0.43 | 1.90 | 12 | 1 |
| 1:C:748:LEU:C | 1:C:748:LEU:HD13 | 0.43 | 2.34 | 12 | 1 |
| 1:B:803:TRP:CZ3 | 1:C:768:TYR:CE1 | 0.43 | 3.06 | 15 | 1 |
| 1:C:799:LEU:O | 1:C:803:TRP:CD2 | 0.43 | 2.71 | 8 | 2 |
| 1:B:774:LEU:O | 1:B:777:ILE:HD12 | 0.43 | 2.14 | 11 | 1 |
| 1:B:843:ILE:HD13 | 1:B:843:ILE:C | 0.43 | 2.34 | 11 | 1 |
| 1:A:776:LEU:HD12 | 1:A:777:ILE:N | 0.43 | 2.29 | 13 | 1 |
| 1:A:696:ARG:NE | 1:C:693:ILE:HD11 | 0.43 | 2.29 | 1 | 1 |
| 1:A:790:TRP:CD1 | 1:A:793:LEU:HD23 | 0.43 | 2.49 | 2 | 1 |
| 1:A:781:ILE:O | 1:A:785:LEU:HG | 0.43 | 2.14 | 5 | 1 |
| 1:B:747:ARG:HA | 1:B:750:ASN:HD21 | 0.43 | 1.74 | 6 | 1 |
| 1:A:715:LEU:HD12 | 1:A:715:LEU:N | 0.43 | 2.29 | 11 | 1 |
| 1:A:776:LEU:O | 1:A:779:THR:HG22 | 0.43 | 2.14 | 11 | 1 |
| 1:A:795:TYR:CZ | 1:A:796:TRP:CE2 | 0.43 | 3.07 | 14 | 1 |
| 1:B:833:VAL:HG23 | 1:B:834:GLN:N | 0.43 | 2.29 | 15 | 1 |
| 1:A:663:LEU:C | 1:A:663:LEU:HD23 | 0.42 | 2.35 | 13 | 2 |
| 1:A:830:ILE:C | 1:A:830:ILE:HD12 | 0.42 | 2.34 | 10 | 2 |
| 1:C:797:TRP:CB | 1:C:847:ILE:HD12 | 0.42 | 2.44 | 3 | 1 |
| 1:A:763:LEU:HD23 | 1:A:763:LEU:C | 0.42 | 2.35 | 6 | 2 |
| 1:B:704:LEU:HD12 | 1:C:714:PRO:HA | 0.42 | 1.91 | 9 | 1 |
| 1:A:768:TYR:CZ | 1:C:802:TYR:CD2 | 0.42 | 3.06 | 12 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:A:819:ALA:HB1 | 1:A:826:THR:CB | 0.42 | 2.44 | 12 | 1 |
| 1:C:756:ILE:H | 1:C:756:ILE:HD13 | 0.42 | 1.74 | 12 | 1 |
| 1:B:704:LEU:HD13 | 1:C:707:ARG:CB | 0.42 | 2.44 | 13 | 1 |
| 1:C:675:ILE:HD11 | 1:C:678:TRP:CE3 | 0.42 | 2.49 | 15 | 1 |
| 1:A:746:ILE:O | 1:A:749:VAL:HG23 | 0.42 | 2.13 | 14 | 2 |
| 1:C:670:TRP:N | 1:C:670:TRP:CD1 | 0.42 | 2.87 | 3 | 1 |
| 1:B:791:GLU:HG2 | 1:C:753:LEU:HD13 | 0.42 | 1.92 | 5 | 1 |
| 1:C:770:ARG:O | 1:C:774:LEU:N | 0.42 | 2.52 | 12 | 1 |
| 1:B:771:LEU:HD21 | 1:B:772:ARG:HE | 0.42 | 1.74 | 14 | 1 |
| 1:A:774:LEU:HD21 | 1:B:742:ARG:CZ | 0.42 | 2.44 | 1 | 1 |
| 1:A:793:LEU:HD11 | 1:A:848:ARG:HB2 | 0.42 | 1.89 | 2 | 1 |
| 1:B:771:LEU:HD13 | 1:B:772:ARG:H | 0.42 | 1.74 | 2 | 1 |
| 1:C:775:LEU:O | 1:C:778:VAL:HG12 | 0.42 | 2.14 | 2 | 1 |
| 1:C:661:LEU:HD23 | 1:C:661:LEU:N | 0.42 | 2.30 | 4 | 1 |
| 1:A:747:ARG:O | 1:A:751:GLY:N | 0.42 | 2.52 | 7 | 1 |
| 1:C:755:LEU:C | 1:C:755:LEU:HD23 | 0.42 | 2.34 | 7 | 1 |
| 1:C:843:ILE:HD13 | 1:C:843:ILE:N | 0.42 | 2.28 | 7 | 1 |
| 1:A:760:LEU:HD23 | 1:A:760:LEU:C | 0.42 | 2.34 | 8 | 1 |
| 1:A:750:ASN:HB3 | 1:C:785:LEU:HD23 | 0.42 | 1.90 | 11 | 1 |
| 1:B:677:ASN:O | 1:B:681:TYR:CZ | 0.42 | 2.72 | 11 | 1 |
| 1:C:791:GLU:O | 1:C:794:LYS:HD2 | 0.42 | 2.15 | 12 | 1 |
| 1:C:830:ILE:HG23 | 1:C:831:GLU:N | 0.42 | 2.29 | 12 | 1 |
| 1:B:695:LEU:HD23 | 1:B:695:LEU:C | 0.42 | 2.35 | 14 | 1 |
| 1:C:660:LEU:HD12 | 1:C:660:LEU:O | 0.42 | 2.15 | 1 | 1 |
| 1:C:833:VAL:HG23 | 1:C:834:GLN:N | 0.42 | 2.29 | 12 | 6 |
| 1:A:793:LEU:HD21 | 1:A:847:ILE:CG1 | 0.42 | 2.41 | 4 | 1 |
| 1:A:812:VAL:HG13 | 1:A:834:GLN:OE1 | 0.42 | 2.15 | 5 | 1 |
| 1:A:705:VAL:O | 1:A:708:VAL:HG23 | 0.42 | 2.15 | 7 | 1 |
| 1:A:816:ASN:CB | 1:A:830:ILE:HD11 | 0.42 | 2.44 | 7 | 1 |
| 1:A:675:ILE:HD12 | 1:A:679:LEU:HD21 | 0.42 | 1.90 | 9 | 1 |
| 1:C:855:LEU:HD12 | 1:C:855:LEU:C | 0.42 | 2.35 | 9 | 1 |
| 1:C:753:LEU:O | 1:C:756:ILE:HG22 | 0.42 | 2.15 | 14 | 1 |
| 1:C:771:LEU:C | 1:C:771:LEU:HD12 | 0.42 | 2.34 | 14 | 1 |
| 1:C:688:ILE:HD12 | 1:C:688:ILE:N | 0.42 | 2.29 | 1 | 1 |
| 1:A:803:TRP:CH2 | 1:B:768:TYR:CZ | 0.42 | 3.06 | 3 | 1 |
| 1:B:830:ILE:HG23 | 1:B:831:GLU:N | 0.42 | 2.29 | 10 | 4 |
| 1:A:757:TRP:CD1 | 1:A:757:TRP:C | 0.42 | 2.92 | 4 | 1 |
| 1:C:771:LEU:C | 1:C:771:LEU:HD22 | 0.42 | 2.35 | 4 | 1 |
| 1:C:820:ILE:HD13 | 1:C:820:ILE:N | 0.42 | 2.30 | 6 | 1 |
| 1:A:751:GLY:HA2 | 1:B:715:LEU:HD11 | 0.42 | 1.90 | 9 | 1 |
| 1:C:748:LEU:HD13 | 1:C:748:LEU:C | 0.42 | 2.35 | 11 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models Worst | Total |
|---|---|---|---|---|---|
| 1:A:688:ILE:HD12 | 1:A:688:ILE:H | 0.42 | 1.74 | 2 | 1 |
| 1:B:799:LEU:HD23 | 1:B:800:LEU:H | 0.42 | 1.72 | 2 | 1 |
| 1:C:840:ILE:HA | 1:C:843:ILE:HD11 | 0.42 | 1.90 | 2 | 1 |
| 1:A:822:VAL:HG13 | 1:A:823:GLY:N | 0.42 | 2.29 | 13 | 1 |
| 1:B:765:LEU:C | 1:B:765:LEU:HD12 | 0.42 | 2.35 | 1 | 1 |
| 1:C:781:ILE:HG22 | 1:C:785:LEU:CD1 | 0.42 | 2.45 | 3 | 1 |
| 1:A:748:LEU:C | 1:A:748:LEU:HD13 | 0.42 | 2.34 | 6 | 1 |
| 1:A:795:TYR:CE1 | 1:B:756:ILE:HD13 | 0.42 | 2.50 | 6 | 1 |
| 1:B:708:VAL:HG12 | 1:B:741:ASP:HB2 | 0.42 | 1.92 | 10 | 1 |
| 1:B:821:ALA:O | 1:B:822:VAL:HG22 | 0.42 | 2.15 | 10 | 1 |
| 1:C:764:SER:HB3 | 1:C:771:LEU:HD12 | 0.42 | 1.91 | 13 | 1 |
| 1:A:760:LEU:HD22 | 1:A:763:LEU:HD21 | 0.42 | 1.90 | 14 | 1 |
| 1:A:771:LEU:H | 1:A:771:LEU:HD22 | 0.42 | 1.75 | 14 | 1 |
| 1:C:832:VAL:HG23 | 1:C:833:VAL:N | 0.42 | 2.30 | 14 | 2 |
| 1:A:785:LEU:C | 1:A:785:LEU:HD12 | 0.42 | 2.35 | 4 | 1 |
| 1:B:749:VAL:HG23 | 1:B:750:ASN:N | 0.42 | 2.30 | 6 | 1 |
| 1:C:708:VAL:HG12 | 1:C:741:ASP:HB2 | 0.42 | 1.91 | 9 | 1 |
| 1:A:704:LEU:HD12 | 1:B:710:GLN:OE1 | 0.42 | 2.15 | 10 | 1 |
| 1:B:795:TYR:O | 1:B:799:LEU:CD2 | 0.42 | 2.68 | 10 | 1 |
| 1:B:775:LEU:HD13 | 1:B:775:LEU:C | 0.42 | 2.35 | 11 | 1 |
| 1:A:747:ARG:HA | 1:A:750:ASN:HD21 | 0.42 | 1.74 | 14 | 1 |
| 1:A:843:ILE:HD13 | 1:A:844:PRO:N | 0.42 | 2.30 | 15 | 1 |
| 1:A:714:PRO:HB3 | 1:C:748:LEU:HD13 | 0.42 | 1.92 | 1 | 1 |
| 1:B:775:LEU:O | 1:B:778:VAL:HG12 | 0.42 | 2.15 | 2 | 1 |
| 1:A:753:LEU:O | 1:A:756:ILE:HG12 | 0.42 | 2.15 | 4 | 1 |
| 1:A:756:ILE:O | 1:A:760:LEU:CD2 | 0.42 | 2.68 | 4 | 1 |
| 1:B:841:ARG:O | 1:B:842:HIS:C | 0.42 | 2.58 | 4 | 1 |
| 1:B:808:LYS:O | 1:B:812:VAL:HG13 | 0.42 | 2.14 | 6 | 1 |
| 1:C:695:LEU:HD23 | 1:C:695:LEU:C | 0.42 | 2.35 | 8 | 1 |
| 1:B:774:LEU:O | 1:B:777:ILE:HG23 | 0.42 | 2.15 | 11 | 1 |
| 1:A:796:TRP:CD1 | 1:A:799:LEU:HD21 | 0.42 | 2.49 | 12 | 1 |
| 1:B:777:ILE:HD13 | 1:B:777:ILE:C | 0.42 | 2.34 | 12 | 1 |
| 1:A:771:LEU:HD21 | 1:C:806:GLU:OE1 | 0.42 | 2.14 | 13 | 1 |
| 1:A:754:ALA:CB | 1:B:715:LEU:HD22 | 0.42 | 2.45 | 14 | 1 |
| 1:B:778:VAL:HG23 | 1:C:746:ILE:HD11 | 0.42 | 1.92 | 2 | 1 |
| 1:A:753:LEU:HD13 | 1:C:791:GLU:HB3 | 0.42 | 1.91 | 8 | 1 |
| 1:C:760:LEU:C | 1:C:760:LEU:HD23 | 0.42 | 2.35 | 8 | 1 |
| 1:B:748:LEU:HD23 | 1:C:714:PRO:HB3 | 0.42 | 1.91 | 10 | 1 |
| 1:A:753:LEU:HD12 | 1:A:754:ALA:N | 0.42 | 2.30 | 12 | 1 |
| 1:A:829:VAL:O | 1:A:833:VAL:HG23 | 0.41 | 2.15 | 2 | 1 |
| 1:A:785:LEU:HD21 | 1:B:746:ILE:CG2 | 0.41 | 2.45 | 5 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|--------|--------|----------|-------------|--------|--------|
| | | | | Worst | Total |
| 1:A:806:GLU:HG3 | 1:B:771:LEU:HD21 | 0.41 | 1.91 | 5 | 1 |
| 1:C:715:LEU:HD23 | 1:C:715:LEU:O | 0.41 | 2.14 | 5 | 1 |
| 1:C:822:VAL:HG23 | 1:C:823:GLY:N | 0.41 | 2.30 | 8 | 1 |
| 1:B:672:TRP:CD1 | 1:B:672:TRP:N | 0.41 | 2.88 | 12 | 2 |
| 1:A:748:LEU:HD23 | 1:A:748:LEU:C | 0.41 | 2.35 | 11 | 1 |
| 1:A:760:LEU:C | 1:A:760:LEU:HD22 | 0.41 | 2.35 | 12 | 1 |
| 1:A:791:GLU:HB2 | 1:B:753:LEU:HD22 | 0.41 | 1.92 | 12 | 1 |
| 1:A:746:ILE:HD12 | 1:A:746:ILE:N | 0.41 | 2.29 | 3 | 2 |
| 1:B:820:ILE:HD12 | 1:B:820:ILE:N | 0.41 | 2.30 | 7 | 2 |
| 1:C:750:ASN:ND2 | 1:C:750:ASN:H | 0.41 | 2.13 | 3 | 1 |
| 1:C:822:VAL:HG13 | 1:C:822:VAL:O | 0.41 | 2.15 | 4 | 1 |
| 1:A:795:TYR:O | 1:B:756:ILE:HG21 | 0.41 | 2.15 | 5 | 2 |
| 1:A:764:SER:HB3 | 1:A:771:LEU:HD23 | 0.41 | 1.92 | 7 | 1 |
| 1:B:819:ALA:O | 1:B:822:VAL:HG22 | 0.41 | 2.15 | 9 | 1 |
| 1:C:699:PHE:HA | 1:C:702:LEU:HB3 | 0.41 | 1.92 | 9 | 2 |
| 1:B:748:LEU:C | 1:B:748:LEU:HD23 | 0.41 | 2.35 | 14 | 1 |
| 1:A:812:VAL:HG23 | 1:A:813:SER:N | 0.41 | 2.30 | 2 | 4 |
| 1:A:806:GLU:HG3 | 1:B:771:LEU:HD11 | 0.41 | 1.92 | 5 | 1 |
| 1:A:775:LEU:HD22 | 1:A:775:LEU:N | 0.41 | 2.29 | 6 | 1 |
| 1:C:826:THR:O | 1:C:830:ILE:HD13 | 0.41 | 2.15 | 6 | 1 |
| 1:A:710:GLN:HG2 | 1:A:715:LEU:HD22 | 0.41 | 1.90 | 9 | 1 |
| 1:A:696:ARG:HD2 | 1:C:697:ILE:HG22 | 0.41 | 1.91 | 10 | 1 |
| 1:B:675:ILE:HD12 | 1:B:675:ILE:C | 0.41 | 2.34 | 12 | 1 |
| 1:C:702:LEU:HD22 | 1:C:702:LEU:C | 0.41 | 2.36 | 12 | 1 |
| 1:C:774:LEU:HD13 | 1:C:774:LEU:C | 0.41 | 2.35 | 12 | 1 |
| 1:A:814:LEU:O | 1:A:814:LEU:HD13 | 0.41 | 2.15 | 15 | 1 |
| 1:C:710:GLN:OE1 | 1:C:715:LEU:HD22 | 0.41 | 2.16 | 1 | 1 |
| 1:B:796:TRP:HA | 1:B:799:LEU:HD22 | 0.41 | 1.91 | 2 | 1 |
| 1:A:808:LYS:HE3 | 1:A:839:ALA:HB2 | 0.41 | 1.92 | 4 | 1 |
| 1:B:712:TYR:CG | 1:B:713:SER:N | 0.41 | 2.88 | 14 | 2 |
| 1:C:690:GLY:O | 1:C:693:ILE:HG23 | 0.41 | 2.15 | 8 | 2 |
| 1:A:795:TYR:CD1 | 1:A:795:TYR:C | 0.41 | 2.94 | 11 | 1 |
| 1:B:855:LEU:HD22 | 1:B:855:LEU:C | 0.41 | 2.34 | 12 | 1 |
| 1:A:707:ARG:NH2 | 1:C:707:ARG:CZ | 0.41 | 2.83 | 15 | 1 |
| 1:C:682:ILE:HD13 | 1:C:682:ILE:N | 0.41 | 2.30 | 15 | 1 |
| 1:B:826:THR:O | 1:B:829:VAL:HG12 | 0.41 | 2.15 | 4 | 1 |
| 1:A:708:VAL:HG21 | 1:B:714:PRO:HD2 | 0.41 | 1.93 | 5 | 1 |
| 1:B:686:ILE:HD12 | 1:B:686:ILE:N | 0.41 | 2.30 | 6 | 1 |
| 1:C:745:SER:O | 1:C:748:LEU:HD22 | 0.41 | 2.15 | 6 | 1 |
| 1:A:686:ILE:HG21 | 1:B:686:ILE:HD11 | 0.41 | 1.92 | 7 | 1 |
| 1:A:661:LEU:HD12 | 1:C:666:TRP:CG | 0.41 | 2.50 | 11 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models | |
|---|---|---|---|---|---|
| | | | | Worst | Total |
| 1:C:820:ILE:N | 1:C:820:ILE:HD12 | 0.41 | 2.30 | 11 | 1 |
| 1:A:704:LEU:HD21 | 1:B:707:ARG:HB2 | 0.41 | 1.92 | 6 | 1 |
| 1:A:714:PRO:O | 1:C:704:LEU:HD21 | 0.41 | 2.16 | 3 | 1 |
| 1:A:771:LEU:HD12 | 1:A:771:LEU:C | 0.41 | 2.36 | 3 | 1 |
| 1:A:795:TYR:CD2 | 1:B:753:LEU:O | 0.41 | 2.74 | 3 | 1 |
| 1:A:803:TRP:CZ2 | 1:B:760:LEU:HD11 | 0.41 | 2.50 | 3 | 1 |
| 1:B:768:TYR:C | 1:B:770:ARG:H | 0.41 | 2.18 | 5 | 1 |
| 1:C:743:ASP:O | 1:C:746:ILE:HG22 | 0.41 | 2.15 | 5 | 1 |
| 1:C:836:ALA:O | 1:C:840:ILE:HD12 | 0.41 | 2.15 | 7 | 1 |
| 1:B:794:LYS:CD | 1:B:795:TYR:N | 0.41 | 2.84 | 8 | 1 |
| 1:A:661:LEU:HD12 | 1:C:666:TRP:CD2 | 0.41 | 2.51 | 11 | 1 |
| 1:C:854:ILE:HD13 | 1:C:854:ILE:O | 0.41 | 2.16 | 12 | 1 |
| 1:A:663:LEU:HD23 | 1:B:660:LEU:O | 0.41 | 2.16 | 14 | 1 |
| 1:C:699:PHE:O | 1:C:702:LEU:HB3 | 0.41 | 2.16 | 1 | 2 |
| 1:A:707:ARG:HB2 | 1:C:704:LEU:HD21 | 0.41 | 1.93 | 2 | 1 |
| 1:A:756:ILE:O | 1:A:760:LEU:CB | 0.41 | 2.68 | 2 | 1 |
| 1:B:763:LEU:HD23 | 1:B:763:LEU:C | 0.41 | 2.36 | 6 | 2 |
| 1:C:816:ASN:OD1 | 1:C:816:ASN:N | 0.41 | 2.53 | 3 | 1 |
| 1:B:821:ALA:C | 1:B:822:VAL:HG22 | 0.41 | 2.36 | 4 | 1 |
| 1:A:792:ALA:O | 1:A:795:TYR:HD2 | 0.41 | 1.98 | 10 | 3 |
| 1:A:816:ASN:O | 1:A:827:ASP:OD2 | 0.41 | 2.38 | 10 | 1 |
| 1:B:847:ILE:HD13 | 1:B:847:ILE:N | 0.41 | 2.30 | 14 | 1 |
| 1:A:677:ASN:O | 1:A:681:TYR:CZ | 0.41 | 2.74 | 2 | 1 |
| 1:C:715:LEU:HD13 | 1:C:715:LEU:C | 0.41 | 2.35 | 2 | 1 |
| 1:A:760:LEU:HD11 | 1:C:803:TRP:CH2 | 0.41 | 2.49 | 3 | 1 |
| 1:B:781:ILE:HD12 | 1:C:746:ILE:CB | 0.41 | 2.45 | 3 | 1 |
| 1:B:814:LEU:HD13 | 1:B:814:LEU:C | 0.41 | 2.36 | 4 | 1 |
| 1:B:847:ILE:HG23 | 1:B:848:ARG:N | 0.41 | 2.31 | 9 | 2 |
| 1:C:678:TRP:CD1 | 1:C:678:TRP:C | 0.41 | 2.94 | 4 | 1 |
| 1:A:742:ARG:NH2 | 1:C:774:LEU:HD21 | 0.41 | 2.31 | 5 | 1 |
| 1:B:667:ALA:HB2 | 1:C:660:LEU:HD22 | 0.41 | 1.91 | 5 | 1 |
| 1:A:747:ARG:O | 1:A:747:ARG:CD | 0.41 | 2.69 | 7 | 1 |
| 1:A:774:LEU:HD23 | 1:A:774:LEU:C | 0.41 | 2.36 | 9 | 1 |
| 1:A:851:LEU:HD22 | 1:A:854:ILE:HD11 | 0.41 | 1.92 | 9 | 1 |
| 1:C:750:ASN:H | 1:C:750:ASN:ND2 | 0.41 | 2.14 | 9 | 1 |
| 1:B:760:LEU:O | 1:B:763:LEU:HD13 | 0.41 | 2.16 | 10 | 1 |
| 1:B:753:LEU:HD12 | 1:B:753:LEU:H | 0.41 | 1.76 | 11 | 1 |
| 1:B:775:LEU:HD22 | 1:B:775:LEU:C | 0.41 | 2.36 | 11 | 1 |
| 1:C:704:LEU:O | 1:C:707:ARG:HB3 | 0.41 | 2.16 | 12 | 1 |
| 1:B:803:TRP:CE3 | 1:C:768:TYR:CE2 | 0.41 | 3.09 | 13 | 1 |
| 1:A:660:LEU:N | 1:A:660:LEU:HD22 | 0.41 | 2.31 | 14 | 1 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models Worst | Total |
|---|---|---|---|---|---|
| 1:B:776:LEU:HD12 | 1:B:777:ILE:N | 0.41 | 2.31 | 14 | 1 |
| 1:A:746:ILE:HG22 | 1:C:785:LEU:HD22 | 0.41 | 1.92 | 1 | 1 |
| 1:C:768:TYR:O | 1:C:769:HIS:CB | 0.41 | 2.69 | 2 | 1 |
| 1:A:753:LEU:HD22 | 1:C:791:GLU:HB2 | 0.41 | 1.92 | 3 | 1 |
| 1:A:675:ILE:HD13 | 1:A:675:ILE:C | 0.41 | 2.36 | 5 | 2 |
| 1:C:774:LEU:O | 1:C:777:ILE:HG22 | 0.41 | 2.15 | 6 | 1 |
| 1:A:806:GLU:OE2 | 1:B:771:LEU:HD21 | 0.41 | 2.16 | 11 | 1 |
| 1:B:845:ARG:O | 1:B:846:ARG:C | 0.41 | 2.59 | 11 | 1 |
| 1:A:815:LEU:O | 1:A:819:ALA:HB2 | 0.41 | 2.16 | 14 | 1 |
| 1:A:779:THR:O | 1:A:782:VAL:HG22 | 0.41 | 2.15 | 15 | 1 |
| 1:A:746:ILE:HG21 | 1:C:781:ILE:HG21 | 0.40 | 1.93 | 9 | 2 |
| 1:C:679:LEU:HD23 | 1:C:679:LEU:O | 0.40 | 2.16 | 1 | 1 |
| 1:A:756:ILE:HD12 | 1:A:756:ILE:H | 0.40 | 1.76 | 6 | 1 |
| 1:A:760:LEU:HD21 | 1:C:799:LEU:HD12 | 0.40 | 1.93 | 7 | 1 |
| 1:B:765:LEU:HD13 | 1:B:774:LEU:HD11 | 0.40 | 1.92 | 9 | 1 |
| 1:C:698:VAL:HG23 | 1:C:699:PHE:CD2 | 0.40 | 2.49 | 12 | 1 |
| 1:B:821:ALA:O | 1:B:822:VAL:CB | 0.40 | 2.70 | 13 | 1 |
| 1:A:814:LEU:O | 1:A:818:THR:HG22 | 0.40 | 2.16 | 2 | 1 |
| 1:A:760:LEU:HG | 1:C:799:LEU:HD12 | 0.40 | 1.92 | 3 | 1 |
| 1:B:781:ILE:CD1 | 1:C:746:ILE:HG21 | 0.40 | 2.45 | 3 | 1 |
| 1:A:660:LEU:HG | 1:C:667:ALA:HB2 | 0.40 | 1.91 | 7 | 1 |
| 1:B:799:LEU:HD21 | 1:C:760:LEU:HD12 | 0.40 | 1.93 | 7 | 1 |
| 1:A:808:LYS:O | 1:A:812:VAL:HG12 | 0.40 | 2.16 | 8 | 1 |
| 1:B:758:ASP:O | 1:B:761:ARG:CZ | 0.40 | 2.69 | 10 | 1 |
| 1:A:693:ILE:HD11 | 1:B:692:LEU:HD23 | 0.40 | 1.93 | 11 | 1 |
| 1:A:754:ALA:HB3 | 1:B:715:LEU:CD2 | 0.40 | 2.47 | 15 | 1 |
| 1:A:793:LEU:HD12 | 1:A:797:TRP:CE2 | 0.40 | 2.51 | 15 | 1 |
| 1:A:836:ALA:O | 1:A:840:ILE:HG22 | 0.40 | 2.17 | 15 | 1 |
| 1:B:755:LEU:CA | 1:C:715:LEU:HD11 | 0.40 | 2.46 | 1 | 1 |
| 1:C:760:LEU:HD13 | 1:C:761:ARG:N | 0.40 | 2.31 | 1 | 1 |
| 1:C:812:VAL:HG12 | 1:C:816:ASN:ND2 | 0.40 | 2.30 | 1 | 1 |
| 1:A:750:ASN:ND2 | 1:A:750:ASN:N | 0.40 | 2.69 | 5 | 1 |
| 1:B:683:ARG:NH1 | 1:C:679:LEU:HD11 | 0.40 | 2.31 | 5 | 1 |
| 1:C:782:VAL:HA | 1:C:785:LEU:HD11 | 0.40 | 1.93 | 6 | 1 |
| 1:A:803:TRP:O | 1:A:806:GLU:HG3 | 0.40 | 2.15 | 7 | 1 |
| 1:B:822:VAL:HG23 | 1:B:823:GLY:N | 0.40 | 2.32 | 9 | 1 |
| 1:C:847:ILE:HG13 | 1:C:848:ARG:H | 0.40 | 1.76 | 10 | 1 |
| 1:C:843:ILE:H | 1:C:844:PRO:CD | 0.40 | 2.29 | 11 | 1 |
| 1:B:816:ASN:ND2 | 1:B:820:ILE:HD11 | 0.40 | 2.31 | 15 | 1 |
| 1:B:830:ILE:HD12 | 1:B:830:ILE:C | 0.40 | 2.37 | 1 | 1 |
| 1:C:706:ASN:O | 1:C:710:GLN:N | 0.40 | 2.54 | 5 | 2 |

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| Atom-1 | Atom-2 | Clash(Å) | Distance(Å) | Models Worst | Models Total |
|---|---|---|---|---|---|
| 1:B:808:LYS:NZ | 1:B:834:GLN:O | 0.40 | 2.54 | 11 | 1 |
| 1:B:842:HIS:HB3 | 1:B:843:ILE:HD13 | 0.40 | 1.93 | 12 | 1 |
| 1:A:763:LEU:O | 1:A:774:LEU:CB | 0.40 | 2.70 | 15 | 1 |
| 1:A:678:TRP:CD1 | 1:A:679:LEU:N | 0.40 | 2.90 | 2 | 1 |
| 1:A:694:GLY:O | 1:A:697:ILE:HG13 | 0.40 | 2.16 | 6 | 1 |
| 1:C:790:TRP:CH2 | 1:C:793:LEU:HD22 | 0.40 | 2.51 | 6 | 1 |
| 1:C:802:TYR:HB3 | 1:C:803:TRP:CZ3 | 0.40 | 2.52 | 6 | 1 |
| 1:C:682:ILE:HD13 | 1:C:683:ARG:N | 0.40 | 2.31 | 8 | 1 |
| 1:B:795:TYR:O | 1:B:799:LEU:HD23 | 0.40 | 2.16 | 10 | 1 |
| 1:C:746:ILE:O | 1:C:749:VAL:HG23 | 0.40 | 2.16 | 10 | 1 |
| 1:C:663:LEU:HD22 | 1:C:664:ASP:N | 0.40 | 2.30 | 12 | 1 |

## 6.3   Torsion angles ⓘ

### 6.3.1   Protein backbone ⓘ

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 | 171/197 (87%) | 154±2 (90±1%) | 10±2 (6±1%) | 7±2 (4±1%) | 4 | 31 |
| 1 | B | 171/197 (87%) | 152±2 (89±1%) | 10±2 (6±1%) | 8±2 (5±1%) | 3 | 24 |
| 1 | C | 171/197 (87%) | 154±2 (90±1%) | 10±2 (6±1%) | 7±3 (4±2%) | 4 | 29 |
| All | All | 7695/8865 (87%) | 6905 (90%) | 459 (6%) | 331 (4%) | 3 | 28 |

All 68 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 | 714 | PRO | 15 |
| 1 | C | 714 | PRO | 15 |
| 1 | B | 714 | PRO | 14 |
| 1 | C | 712 | TYR | 11 |
| 1 | A | 741 | ASP | 9 |
| 1 | B | 673 | PHE | 9 |
| 1 | C | 673 | PHE | 9 |
| 1 | B | 765 | LEU | 8 |

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| Mol | Chain | Res | Type | Models (Total) |
|:---:|:---:|:---:|:---:|:---:|
| 1 | C | 767 | SER | 8 |
| 1 | C | 843 | ILE | 8 |
| 1 | B | 846 | ARG | 8 |
| 1 | A | 825 | GLY | 7 |
| 1 | C | 661 | LEU | 7 |
| 1 | B | 824 | GLU | 7 |
| 1 | B | 842 | HIS | 7 |
| 1 | B | 844 | PRO | 7 |
| 1 | C | 769 | HIS | 7 |
| 1 | A | 673 | PHE | 6 |
| 1 | A | 768 | TYR | 6 |
| 1 | C | 765 | LEU | 6 |
| 1 | C | 822 | VAL | 6 |
| 1 | A | 661 | LEU | 6 |
| 1 | B | 712 | TYR | 6 |
| 1 | B | 661 | LEU | 5 |
| 1 | C | 766 | PHE | 5 |
| 1 | A | 822 | VAL | 5 |
| 1 | B | 674 | ASP | 5 |
| 1 | B | 766 | PHE | 5 |
| 1 | B | 825 | GLY | 5 |
| 1 | A | 712 | TYR | 5 |
| 1 | A | 769 | HIS | 5 |
| 1 | A | 846 | ARG | 5 |
| 1 | B | 767 | SER | 5 |
| 1 | B | 822 | VAL | 5 |
| 1 | A | 765 | LEU | 4 |
| 1 | B | 663 | LEU | 4 |
| 1 | B | 769 | HIS | 4 |
| 1 | C | 674 | ASP | 4 |
| 1 | C | 821 | ALA | 4 |
| 1 | A | 821 | ALA | 4 |
| 1 | B | 662 | GLU | 4 |
| 1 | B | 768 | TYR | 4 |
| 1 | B | 821 | ALA | 4 |
| 1 | A | 662 | GLU | 4 |
| 1 | C | 824 | GLU | 4 |
| 1 | A | 824 | GLU | 4 |
| 1 | A | 674 | ASP | 3 |
| 1 | A | 843 | ILE | 3 |
| 1 | A | 767 | SER | 2 |
| 1 | B | 845 | ARG | 2 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | B | 843 | ILE | 2 |
| 1 | C | 846 | ARG | 2 |
| 1 | A | 766 | PHE | 2 |
| 1 | B | 823 | GLY | 2 |
| 1 | A | 844 | PRO | 2 |
| 1 | A | 845 | ARG | 2 |
| 1 | C | 823 | GLY | 2 |
| 1 | C | 768 | TYR | 2 |
| 1 | B | 741 | ASP | 1 |
| 1 | C | 662 | GLU | 1 |
| 1 | B | 715 | LEU | 1 |
| 1 | B | 711 | GLY | 1 |
| 1 | A | 823 | GLY | 1 |
| 1 | C | 844 | PRO | 1 |
| 1 | A | 715 | LEU | 1 |
| 1 | C | 825 | GLY | 1 |
| 1 | C | 663 | LEU | 1 |
| 1 | C | 715 | LEU | 1 |

### 6.3.2 Protein sidechains ⓘ

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 | 155/173 (90%) | 116±6 (75±4%) | 39±6 (25±4%) | 2 | 23 |
| 1 | B | 155/173 (90%) | 117±6 (76±4%) | 38±6 (24±4%) | 2 | 24 |
| 1 | C | 155/173 (90%) | 115±5 (74±3%) | 40±5 (26±3%) | 2 | 22 |
| All | All | 6975/7785 (90%) | 5231 (75%) | 1744 (25%) | 2 | 23 |

All 409 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 | 803 | TRP | 15 |
| 1 | B | 803 | TRP | 15 |
| 1 | C | 771 | LEU | 15 |
| 1 | C | 794 | LYS | 15 |
| 1 | C | 803 | TRP | 15 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | B | 794 | LYS | 14 |
| 1 | A | 744 | ARG | 13 |
| 1 | A | 771 | LEU | 13 |
| 1 | B | 771 | LEU | 13 |
| 1 | A | 678 | TRP | 12 |
| 1 | A | 763 | LEU | 12 |
| 1 | A | 794 | LYS | 12 |
| 1 | B | 744 | ARG | 12 |
| 1 | C | 761 | ARG | 12 |
| 1 | C | 795 | TYR | 12 |
| 1 | A | 715 | LEU | 11 |
| 1 | A | 795 | TYR | 11 |
| 1 | B | 834 | GLN | 11 |
| 1 | C | 678 | TRP | 11 |
| 1 | A | 693 | ILE | 11 |
| 1 | A | 780 | ARG | 11 |
| 1 | B | 678 | TRP | 11 |
| 1 | C | 799 | LEU | 11 |
| 1 | A | 753 | LEU | 10 |
| 1 | A | 770 | ARG | 10 |
| 1 | B | 763 | LEU | 10 |
| 1 | B | 772 | ARG | 10 |
| 1 | C | 693 | ILE | 10 |
| 1 | C | 744 | ARG | 10 |
| 1 | C | 757 | TRP | 10 |
| 1 | C | 774 | LEU | 10 |
| 1 | C | 775 | LEU | 10 |
| 1 | A | 830 | ILE | 10 |
| 1 | B | 675 | ILE | 10 |
| 1 | C | 696 | ARG | 10 |
| 1 | C | 715 | LEU | 10 |
| 1 | A | 679 | LEU | 10 |
| 1 | A | 772 | ARG | 9 |
| 1 | A | 838 | ARG | 9 |
| 1 | B | 702 | LEU | 9 |
| 1 | B | 715 | LEU | 9 |
| 1 | B | 774 | LEU | 9 |
| 1 | B | 795 | TYR | 9 |
| 1 | B | 802 | TYR | 9 |
| 1 | C | 680 | TRP | 9 |
| 1 | B | 799 | LEU | 9 |
| 1 | A | 697 | ILE | 8 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | A | 712 | TYR | 8 |
| 1 | C | 675 | ILE | 8 |
| 1 | C | 707 | ARG | 8 |
| 1 | C | 758 | ASP | 8 |
| 1 | C | 780 | ARG | 8 |
| 1 | C | 838 | ARG | 8 |
| 1 | C | 847 | ILE | 8 |
| 1 | A | 692 | LEU | 8 |
| 1 | B | 693 | ILE | 8 |
| 1 | C | 663 | LEU | 8 |
| 1 | C | 764 | SER | 8 |
| 1 | C | 772 | ARG | 8 |
| 1 | A | 747 | ARG | 8 |
| 1 | A | 663 | LEU | 7 |
| 1 | A | 674 | ASP | 7 |
| 1 | A | 675 | ILE | 7 |
| 1 | A | 806 | GLU | 7 |
| 1 | A | 814 | LEU | 7 |
| 1 | A | 834 | GLN | 7 |
| 1 | A | 847 | ILE | 7 |
| 1 | B | 707 | ARG | 7 |
| 1 | C | 756 | ILE | 7 |
| 1 | C | 856 | LEU | 7 |
| 1 | A | 758 | ASP | 7 |
| 1 | A | 760 | LEU | 7 |
| 1 | A | 790 | TRP | 7 |
| 1 | B | 765 | LEU | 7 |
| 1 | B | 770 | ARG | 7 |
| 1 | C | 673 | PHE | 7 |
| 1 | C | 713 | SER | 7 |
| 1 | C | 748 | LEU | 7 |
| 1 | A | 765 | LEU | 7 |
| 1 | B | 805 | GLN | 7 |
| 1 | B | 847 | ILE | 7 |
| 1 | A | 662 | GLU | 6 |
| 1 | A | 757 | TRP | 6 |
| 1 | B | 674 | ASP | 6 |
| 1 | B | 708 | VAL | 6 |
| 1 | B | 760 | LEU | 6 |
| 1 | B | 767 | SER | 6 |
| 1 | B | 785 | LEU | 6 |
| 1 | B | 800 | LEU | 6 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | C | 660 | LEU | 6 |
| 1 | C | 770 | ARG | 6 |
| 1 | C | 830 | ILE | 6 |
| 1 | C | 855 | LEU | 6 |
| 1 | A | 704 | LEU | 6 |
| 1 | B | 698 | VAL | 6 |
| 1 | B | 756 | ILE | 6 |
| 1 | B | 758 | ASP | 6 |
| 1 | C | 765 | LEU | 6 |
| 1 | A | 742 | ARG | 6 |
| 1 | B | 685 | PHE | 6 |
| 1 | C | 750 | ASN | 6 |
| 1 | B | 742 | ARG | 6 |
| 1 | A | 761 | ARG | 6 |
| 1 | A | 797 | TRP | 6 |
| 1 | B | 780 | ARG | 6 |
| 1 | C | 702 | LEU | 6 |
| 1 | B | 753 | LEU | 6 |
| 1 | A | 684 | ILE | 5 |
| 1 | A | 696 | ARG | 5 |
| 1 | A | 755 | LEU | 5 |
| 1 | A | 766 | PHE | 5 |
| 1 | A | 788 | ARG | 5 |
| 1 | B | 696 | ARG | 5 |
| 1 | B | 713 | SER | 5 |
| 1 | B | 775 | LEU | 5 |
| 1 | B | 781 | ILE | 5 |
| 1 | B | 830 | ILE | 5 |
| 1 | B | 846 | ARG | 5 |
| 1 | C | 682 | ILE | 5 |
| 1 | C | 697 | ILE | 5 |
| 1 | C | 706 | ASN | 5 |
| 1 | C | 760 | LEU | 5 |
| 1 | C | 802 | TYR | 5 |
| 1 | C | 841 | ARG | 5 |
| 1 | C | 846 | ARG | 5 |
| 1 | C | 848 | ARG | 5 |
| 1 | A | 660 | LEU | 5 |
| 1 | A | 785 | LEU | 5 |
| 1 | A | 799 | LEU | 5 |
| 1 | A | 856 | LEU | 5 |
| 1 | B | 679 | LEU | 5 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | B | 757 | TRP | 5 |
| 1 | B | 801 | GLN | 5 |
| 1 | B | 855 | LEU | 5 |
| 1 | B | 856 | LEU | 5 |
| 1 | C | 763 | LEU | 5 |
| 1 | C | 779 | THR | 5 |
| 1 | A | 739 | GLU | 5 |
| 1 | A | 828 | ARG | 5 |
| 1 | B | 755 | LEU | 5 |
| 1 | B | 773 | ASP | 5 |
| 1 | A | 793 | LEU | 5 |
| 1 | B | 837 | SER | 5 |
| 1 | C | 791 | GLU | 5 |
| 1 | B | 745 | SER | 5 |
| 1 | B | 750 | ASN | 5 |
| 1 | C | 753 | LEU | 5 |
| 1 | C | 787 | ARG | 5 |
| 1 | B | 672 | TRP | 5 |
| 1 | C | 747 | ARG | 5 |
| 1 | A | 710 | GLN | 4 |
| 1 | A | 741 | ASP | 4 |
| 1 | A | 805 | GLN | 4 |
| 1 | B | 743 | ASP | 4 |
| 1 | B | 791 | GLU | 4 |
| 1 | B | 824 | GLU | 4 |
| 1 | B | 845 | ARG | 4 |
| 1 | B | 852 | GLU | 4 |
| 1 | C | 661 | LEU | 4 |
| 1 | C | 679 | LEU | 4 |
| 1 | C | 686 | ILE | 4 |
| 1 | C | 692 | LEU | 4 |
| 1 | C | 740 | ARG | 4 |
| 1 | C | 766 | PHE | 4 |
| 1 | C | 784 | LEU | 4 |
| 1 | C | 793 | LEU | 4 |
| 1 | C | 805 | GLN | 4 |
| 1 | C | 824 | GLU | 4 |
| 1 | A | 764 | SER | 4 |
| 1 | A | 774 | LEU | 4 |
| 1 | A | 776 | LEU | 4 |
| 1 | A | 854 | ILE | 4 |
| 1 | B | 673 | PHE | 4 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | B | 692 | LEU | 4 |
| 1 | B | 739 | GLU | 4 |
| 1 | B | 814 | LEU | 4 |
| 1 | C | 676 | THR | 4 |
| 1 | C | 704 | LEU | 4 |
| 1 | A | 673 | PHE | 4 |
| 1 | A | 852 | GLU | 4 |
| 1 | B | 853 | ARG | 4 |
| 1 | C | 800 | LEU | 4 |
| 1 | C | 845 | ARG | 4 |
| 1 | A | 703 | SER | 4 |
| 1 | A | 746 | ILE | 4 |
| 1 | B | 746 | ILE | 4 |
| 1 | C | 716 | SER | 4 |
| 1 | C | 785 | LEU | 4 |
| 1 | C | 834 | GLN | 4 |
| 1 | A | 707 | ARG | 4 |
| 1 | A | 750 | ASN | 4 |
| 1 | B | 766 | PHE | 4 |
| 1 | B | 816 | ASN | 4 |
| 1 | C | 849 | GLN | 4 |
| 1 | A | 845 | ARG | 4 |
| 1 | B | 790 | TRP | 4 |
| 1 | B | 806 | GLU | 4 |
| 1 | C | 710 | GLN | 4 |
| 1 | A | 669 | LEU | 3 |
| 1 | A | 808 | LYS | 3 |
| 1 | A | 841 | ARG | 3 |
| 1 | B | 704 | LEU | 3 |
| 1 | B | 793 | LEU | 3 |
| 1 | B | 809 | ASN | 3 |
| 1 | C | 662 | GLU | 3 |
| 1 | C | 746 | ILE | 3 |
| 1 | C | 768 | TYR | 3 |
| 1 | C | 782 | VAL | 3 |
| 1 | C | 801 | GLN | 3 |
| 1 | C | 852 | GLU | 3 |
| 1 | A | 713 | SER | 3 |
| 1 | A | 752 | SER | 3 |
| 1 | A | 775 | LEU | 3 |
| 1 | B | 677 | ASN | 3 |
| 1 | B | 686 | ILE | 3 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | B | 706 | ASN | 3 |
| 1 | B | 778 | VAL | 3 |
| 1 | C | 683 | ARG | 3 |
| 1 | A | 827 | ASP | 3 |
| 1 | B | 697 | ILE | 3 |
| 1 | B | 807 | LEU | 3 |
| 1 | B | 827 | ASP | 3 |
| 1 | C | 767 | SER | 3 |
| 1 | C | 816 | ASN | 3 |
| 1 | C | 826 | THR | 3 |
| 1 | A | 702 | LEU | 3 |
| 1 | A | 851 | LEU | 3 |
| 1 | B | 682 | ILE | 3 |
| 1 | B | 748 | LEU | 3 |
| 1 | B | 788 | ARG | 3 |
| 1 | B | 826 | THR | 3 |
| 1 | C | 709 | ARG | 3 |
| 1 | C | 806 | GLU | 3 |
| 1 | A | 665 | LYS | 3 |
| 1 | A | 791 | GLU | 3 |
| 1 | A | 800 | LEU | 3 |
| 1 | A | 843 | ILE | 3 |
| 1 | B | 661 | LEU | 3 |
| 1 | B | 662 | GLU | 3 |
| 1 | B | 663 | LEU | 3 |
| 1 | B | 740 | ARG | 3 |
| 1 | B | 761 | ARG | 3 |
| 1 | B | 764 | SER | 3 |
| 1 | B | 787 | ARG | 3 |
| 1 | B | 848 | ARG | 3 |
| 1 | C | 671 | ASN | 3 |
| 1 | C | 703 | SER | 3 |
| 1 | C | 762 | SER | 3 |
| 1 | C | 809 | ASN | 3 |
| 1 | A | 787 | ARG | 3 |
| 1 | A | 846 | ARG | 3 |
| 1 | C | 714 | PRO | 3 |
| 1 | C | 752 | SER | 3 |
| 1 | C | 843 | ILE | 3 |
| 1 | A | 807 | LEU | 3 |
| 1 | A | 815 | LEU | 3 |
| 1 | B | 660 | LEU | 3 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | C | 743 | ASP | 3 |
| 1 | C | 790 | TRP | 3 |
| 1 | A | 769 | HIS | 3 |
| 1 | A | 677 | ASN | 3 |
| 1 | B | 777 | ILE | 3 |
| 1 | A | 767 | SER | 2 |
| 1 | A | 773 | ASP | 2 |
| 1 | A | 802 | TYR | 2 |
| 1 | A | 824 | GLU | 2 |
| 1 | A | 840 | ILE | 2 |
| 1 | B | 812 | VAL | 2 |
| 1 | C | 674 | ASP | 2 |
| 1 | C | 712 | TYR | 2 |
| 1 | C | 853 | ARG | 2 |
| 1 | A | 701 | VAL | 2 |
| 1 | A | 748 | LEU | 2 |
| 1 | A | 782 | VAL | 2 |
| 1 | A | 822 | VAL | 2 |
| 1 | B | 712 | TYR | 2 |
| 1 | B | 769 | HIS | 2 |
| 1 | B | 840 | ILE | 2 |
| 1 | C | 742 | ARG | 2 |
| 1 | C | 755 | LEU | 2 |
| 1 | C | 773 | ASP | 2 |
| 1 | C | 827 | ASP | 2 |
| 1 | A | 685 | PHE | 2 |
| 1 | A | 848 | ARG | 2 |
| 1 | A | 849 | GLN | 2 |
| 1 | B | 776 | LEU | 2 |
| 1 | C | 759 | ASP | 2 |
| 1 | C | 776 | LEU | 2 |
| 1 | C | 820 | ILE | 2 |
| 1 | C | 840 | ILE | 2 |
| 1 | A | 683 | ARG | 2 |
| 1 | A | 691 | SER | 2 |
| 1 | A | 743 | ASP | 2 |
| 1 | B | 701 | VAL | 2 |
| 1 | B | 808 | LYS | 2 |
| 1 | B | 838 | ARG | 2 |
| 1 | C | 769 | HIS | 2 |
| 1 | C | 851 | LEU | 2 |
| 1 | A | 768 | TYR | 2 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | B | 669 | LEU | 2 |
| 1 | B | 762 | SER | 2 |
| 1 | B | 798 | ASN | 2 |
| 1 | C | 808 | LYS | 2 |
| 1 | C | 813 | SER | 2 |
| 1 | A | 664 | ASP | 2 |
| 1 | A | 676 | THR | 2 |
| 1 | A | 709 | ARG | 2 |
| 1 | B | 683 | ARG | 2 |
| 1 | B | 747 | ARG | 2 |
| 1 | B | 797 | TRP | 2 |
| 1 | B | 854 | ILE | 2 |
| 1 | A | 716 | SER | 2 |
| 1 | A | 777 | ILE | 2 |
| 1 | B | 699 | PHE | 2 |
| 1 | C | 691 | SER | 2 |
| 1 | C | 854 | ILE | 2 |
| 1 | A | 689 | VAL | 2 |
| 1 | A | 779 | THR | 2 |
| 1 | A | 801 | GLN | 2 |
| 1 | B | 842 | HIS | 2 |
| 1 | C | 664 | ASP | 2 |
| 1 | C | 739 | GLU | 2 |
| 1 | B | 710 | GLN | 2 |
| 1 | B | 783 | GLU | 2 |
| 1 | B | 784 | LEU | 2 |
| 1 | C | 781 | ILE | 2 |
| 1 | A | 809 | ASN | 2 |
| 1 | B | 815 | LEU | 2 |
| 1 | B | 828 | ARG | 2 |
| 1 | C | 705 | VAL | 2 |
| 1 | A | 855 | LEU | 2 |
| 1 | B | 843 | ILE | 2 |
| 1 | A | 671 | ASN | 2 |
| 1 | A | 708 | VAL | 2 |
| 1 | C | 807 | LEU | 2 |
| 1 | B | 841 | ARG | 2 |
| 1 | A | 820 | ILE | 1 |
| 1 | B | 671 | ASN | 1 |
| 1 | C | 684 | ILE | 1 |
| 1 | A | 810 | SER | 1 |
| 1 | A | 816 | ASN | 1 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | B | 670 | TRP | 1 |
| 1 | B | 810 | SER | 1 |
| 1 | C | 669 | LEU | 1 |
| 1 | C | 822 | VAL | 1 |
| 1 | A | 714 | PRO | 1 |
| 1 | A | 781 | ILE | 1 |
| 1 | C | 670 | TRP | 1 |
| 1 | C | 677 | ASN | 1 |
| 1 | C | 699 | PHE | 1 |
| 1 | C | 708 | VAL | 1 |
| 1 | C | 783 | GLU | 1 |
| 1 | B | 714 | PRO | 1 |
| 1 | B | 752 | SER | 1 |
| 1 | B | 822 | VAL | 1 |
| 1 | C | 665 | LYS | 1 |
| 1 | C | 741 | ASP | 1 |
| 1 | A | 670 | TRP | 1 |
| 1 | A | 740 | ARG | 1 |
| 1 | B | 695 | LEU | 1 |
| 1 | C | 745 | SER | 1 |
| 1 | C | 804 | SER | 1 |
| 1 | A | 672 | TRP | 1 |
| 1 | A | 831 | GLU | 1 |
| 1 | C | 668 | SER | 1 |
| 1 | C | 831 | GLU | 1 |
| 1 | A | 661 | LEU | 1 |
| 1 | B | 691 | SER | 1 |
| 1 | C | 701 | VAL | 1 |
| 1 | A | 682 | ILE | 1 |
| 1 | A | 804 | SER | 1 |
| 1 | B | 782 | VAL | 1 |
| 1 | C | 815 | LEU | 1 |
| 1 | B | 716 | SER | 1 |
| 1 | B | 749 | VAL | 1 |
| 1 | B | 818 | THR | 1 |
| 1 | B | 851 | LEU | 1 |
| 1 | C | 695 | LEU | 1 |
| 1 | C | 778 | VAL | 1 |
| 1 | C | 788 | ARG | 1 |
| 1 | C | 797 | TRP | 1 |
| 1 | C | 810 | SER | 1 |
| 1 | A | 680 | TRP | 1 |

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| Mol | Chain | Res | Type | Models (Total) |
|-----|-------|-----|------|----------------|
| 1 | A | 698 | VAL | 1 |
| 1 | A | 699 | PHE | 1 |
| 1 | A | 783 | GLU | 1 |
| 1 | B | 668 | SER | 1 |
| 1 | B | 688 | ILE | 1 |
| 1 | C | 672 | TRP | 1 |
| 1 | C | 698 | VAL | 1 |
| 1 | A | 686 | ILE | 1 |
| 1 | B | 680 | TRP | 1 |
| 1 | C | 818 | THR | 1 |
| 1 | A | 668 | SER | 1 |
| 1 | A | 706 | ASN | 1 |
| 1 | B | 676 | THR | 1 |
| 1 | B | 684 | ILE | 1 |
| 1 | B | 813 | SER | 1 |
| 1 | C | 842 | HIS | 1 |
| 1 | A | 842 | HIS | 1 |
| 1 | A | 853 | ARG | 1 |
| 1 | B | 831 | GLU | 1 |
| 1 | A | 688 | ILE | 1 |
| 1 | A | 756 | ILE | 1 |
| 1 | A | 762 | SER | 1 |
| 1 | A | 826 | THR | 1 |
| 1 | A | 837 | SER | 1 |
| 1 | B | 664 | ASP | 1 |
| 1 | B | 804 | SER | 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 (i)

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

## 7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *HIV1_gp41_MPER-TMD-CT_chemical_shifts.tab*

### 7.1.1 Bookkeeping (i)

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

| | |
|---|---|
| Total number of shifts | 657 |
| Number of shifts mapped to atoms | 622 |
| Number of unparsed shifts | 0 |
| Number of shifts with mapping errors | 35 |
| Number of shifts with mapping warnings | 0 |
| Number of shift outliers (ShiftChecker) | 0 |

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

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

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

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

### 7.1.2 Chemical shift referencing ⓘ

The following table shows the suggested chemical shift referencing corrections.

| Nucleus | # values | Correction ± precision, *ppm* | Suggested action |
|---|---|---|---|
| $^{13}C_{\alpha}$ | 171 | -0.04 ± 0.13 | None needed ($< 0.5$ ppm) |
| $^{13}C_{\beta}$ | 0 | — | None (insufficient data) |
| $^{13}C'$ | 158 | -0.28 ± 0.08 | None needed ($< 0.5$ ppm) |
| $^{15}N$ | 164 | 0.90 ± 0.26 | Should be applied |

### 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 8%, i.e. 622 atoms were assigned a chemical shift out of a possible 7980. 0 out of 132 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

| | Total | $^1H$ | $^{13}C$ | $^{15}N$ |
|---|---|---|---|---|
| Backbone | 622/2643 (24%) | 156/1074 (15%) | 310/1050 (30%) | 156/519 (30%) |

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|  | **Total** | **$^1$H** | **$^{13}$C** | **$^{15}$N** |
|---|---|---|---|---|
| Sidechain | 0/4674 (0%) | 0/3063 (0%) | 0/1377 (0%) | 0/234 (0%) |
| Aromatic | 0/663 (0%) | 0/324 (0%) | 0/297 (0%) | 0/42 (0%) |
| Overall | 622/7980 (8%) | 156/4461 (3%) | 310/2724 (11%) | 156/795 (20%) |

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 8%, i.e. 622 atoms were assigned a chemical shift out of a possible 7980. 0 out of 132 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

|  | **Total** | **$^1$H** | **$^{13}$C** | **$^{15}$N** |
|---|---|---|---|---|
| Backbone | 622/2643 (24%) | 156/1074 (15%) | 310/1050 (30%) | 156/519 (30%) |
| Sidechain | 0/4674 (0%) | 0/3063 (0%) | 0/1377 (0%) | 0/234 (0%) |
| Aromatic | 0/663 (0%) | 0/324 (0%) | 0/297 (0%) | 0/42 (0%) |
| Overall | 622/7980 (8%) | 156/4461 (3%) | 310/2724 (11%) | 156/795 (20%) |

### 7.1.4 Statistically unusual chemical shifts ⓘ

There are no statistically unusual chemical shifts.

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

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

Random coil index (RCI) for chain A:
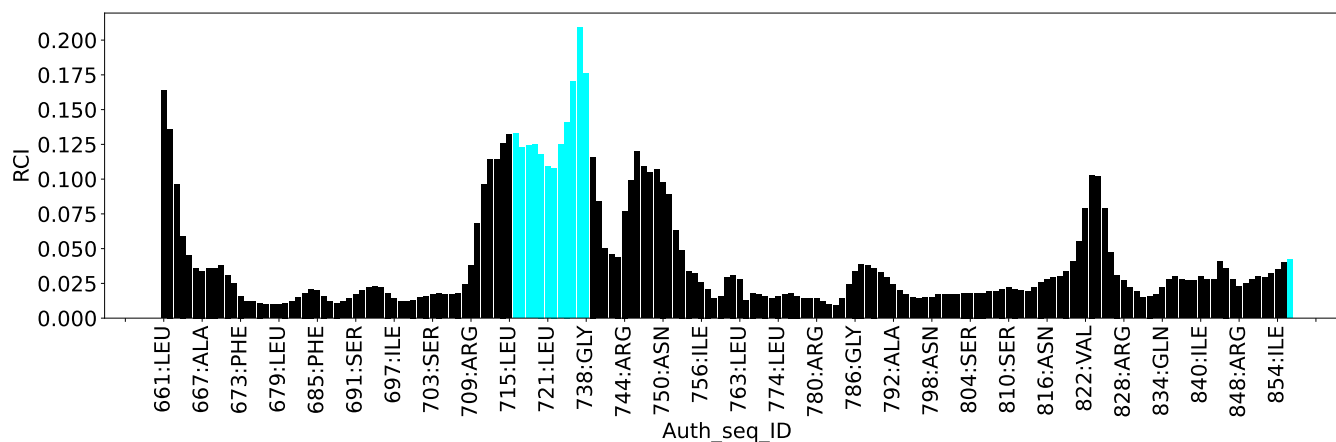
# 8   NMR restraints analysis (i)

## 8.1   Conformationally restricting restraints (i)

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 | 1746 |
| Intra-residue ($|i-j|=0$) | 191 |
| Sequential ($|i-j|=1$) | 522 |
| Medium range ($|i-j|>1$ and $|i-j|<5$) | 517 |
| Long range ($|i-j|\geq 5$) | 131 |
| Inter-chain | 112 |
| Hydrogen bond restraints | 273 |
| Disulfide bond restraints | 0 |
| Total dihedral-angle restraints | 298 |
| Number of unmapped restraints | 38 |
| Number of restraints per residue | 3.5 |
| Number of long range restraints per residue[1] | 0.2 |

[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 (i)

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 (i)

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) | 125.3 | 0.2 |
| 0.2-0.5 (Medium) | 116.4 | 0.5 |
| >0.5 (Large) | 144.9 | 56.95 |

## 8.2.2　Average number of dihedral-angle violations per model ⓘ

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) | 44.5 | 7.23 |
| 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) | 191 | 10.9 | 33 | 17.3 | 1.9 | 3 | 1.6 | 0.2 |
| Backbone-Backbone | 129 | 7.4 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 60 | 3.4 | 33 | 55.0 | 1.9 | 3 | 5.0 | 0.2 |
| Sidechain-Sidechain | 2 | 0.1 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Sequential (\|i-j\|=1) | 522 | 29.9 | 134 | 25.7 | 7.7 | 13 | 2.5 | 0.7 |
| Backbone-Backbone | 411 | 23.5 | 51 | 12.4 | 2.9 | 6 | 1.5 | 0.3 |
| Backbone-Sidechain | 62 | 3.6 | 40 | 64.5 | 2.3 | 3 | 4.8 | 0.2 |
| Sidechain-Sidechain | 49 | 2.8 | 43 | 87.8 | 2.5 | 4 | 8.2 | 0.2 |
| Medium range (\|i-j\|>1 & \|i-j\|<5) | 517 | 29.6 | 374 | 72.3 | 21.4 | 34 | 6.6 | 1.9 |
| Backbone-Backbone | 165 | 9.5 | 95 | 57.6 | 5.4 | 16 | 9.7 | 0.9 |
| Backbone-Sidechain | 153 | 8.8 | 116 | 75.8 | 6.6 | 11 | 7.2 | 0.6 |
| Sidechain-Sidechain | 199 | 11.4 | 163 | 81.9 | 9.3 | 7 | 3.5 | 0.4 |
| Long range (\|i-j\|≥5) | 131 | 7.5 | 105 | 80.2 | 6.0 | 44 | 33.6 | 2.5 |
| Backbone-Backbone | 9 | 0.5 | 3 | 33.3 | 0.2 | 3 | 33.3 | 0.2 |
| Backbone-Sidechain | 72 | 4.1 | 62 | 86.1 | 3.6 | 25 | 34.7 | 1.4 |
| Sidechain-Sidechain | 50 | 2.9 | 40 | 80.0 | 2.3 | 16 | 32.0 | 0.9 |
| Inter-chain | 112 | 6.4 | 103 | 92.0 | 5.9 | 60 | 53.6 | 3.4 |
| Backbone-Backbone | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Backbone-Sidechain | 64 | 3.7 | 58 | 90.6 | 3.3 | 35 | 54.7 | 2.0 |
| Sidechain-Sidechain | 48 | 2.7 | 45 | 93.8 | 2.6 | 25 | 52.1 | 1.4 |
| Hydrogen bond | 273 | 15.6 | 132 | 48.4 | 7.6 | 13 | 4.8 | 0.7 |
| Disulfide bond | 0 | 0.0 | 0 | 0.0 | 0.0 | 0 | 0.0 | 0.0 |
| Total | 1746 | 100.0 | 881 | 50.5 | 50.5 | 167 | 9.6 | 9.6 |
| Backbone-Backbone | 714 | 40.9 | 149 | 20.9 | 8.5 | 25 | 3.5 | 1.4 |
| Backbone-Sidechain | 669 | 38.3 | 426 | 63.7 | 24.4 | 83 | 12.4 | 4.8 |
| Sidechain-Sidechain | 363 | 20.8 | 306 | 84.3 | 17.5 | 59 | 16.3 | 3.4 |

[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 ⓘ
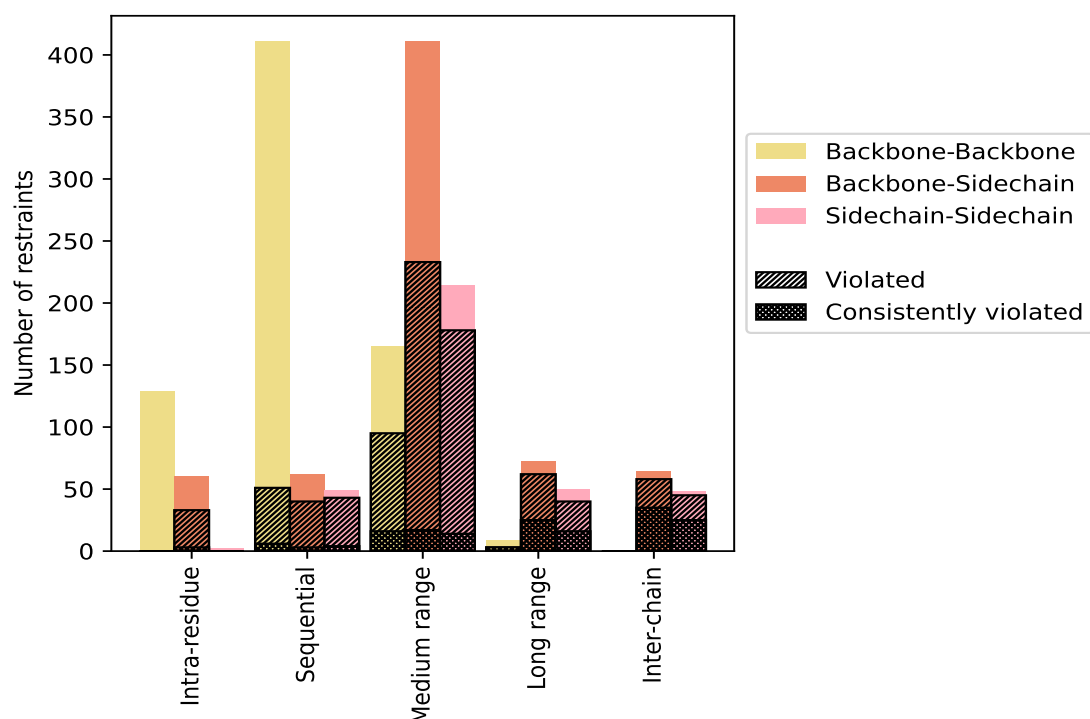


Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfied bonds are counted in their appropriate category on the x-axis

## 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 | 9 | 54 | 187 | 62 | 76 | 388 | 4.82 | 56.95 | 10.19 | 0.32 |
| 2 | 11 | 42 | 166 | 68 | 74 | 361 | 5.16 | 54.31 | 10.43 | 0.36 |
| 3 | 10 | 49 | 203 | 62 | 76 | 400 | 4.67 | 55.51 | 10.03 | 0.33 |
| 4 | 9 | 38 | 183 | 62 | 81 | 373 | 4.92 | 56.86 | 10.31 | 0.32 |
| 5 | 15 | 49 | 168 | 68 | 78 | 378 | 4.83 | 55.88 | 10.17 | 0.31 |
| 6 | 17 | 62 | 196 | 63 | 77 | 415 | 4.44 | 55.56 | 9.81 | 0.32 |
| 7 | 10 | 49 | 204 | 64 | 75 | 402 | 4.57 | 54.51 | 9.91 | 0.33 |
| 8 | 12 | 45 | 209 | 63 | 80 | 409 | 4.57 | 56.35 | 9.94 | 0.3 |
| 9 | 11 | 46 | 178 | 68 | 79 | 382 | 4.89 | 53.78 | 10.17 | 0.32 |
| 10 | 14 | 46 | 190 | 68 | 86 | 404 | 4.58 | 55.73 | 9.92 | 0.3 |

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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 | 14 | 46 | 203 | 61 | 73 | 397 | 4.67 | 54.48 | 9.94 | 0.31 |
| 12 | 10 | 48 | 192 | 60 | 75 | 385 | 4.83 | 55.54 | 10.17 | 0.33 |
| 13 | 18 | 50 | 214 | 61 | 79 | 422 | 4.39 | 55.28 | 9.74 | 0.32 |
| 14 | 15 | 49 | 191 | 60 | 77 | 392 | 4.75 | 54.55 | 10.1 | 0.3 |
| 15 | 12 | 56 | 196 | 66 | 77 | 407 | 4.57 | 56.0 | 9.84 | 0.3 |

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

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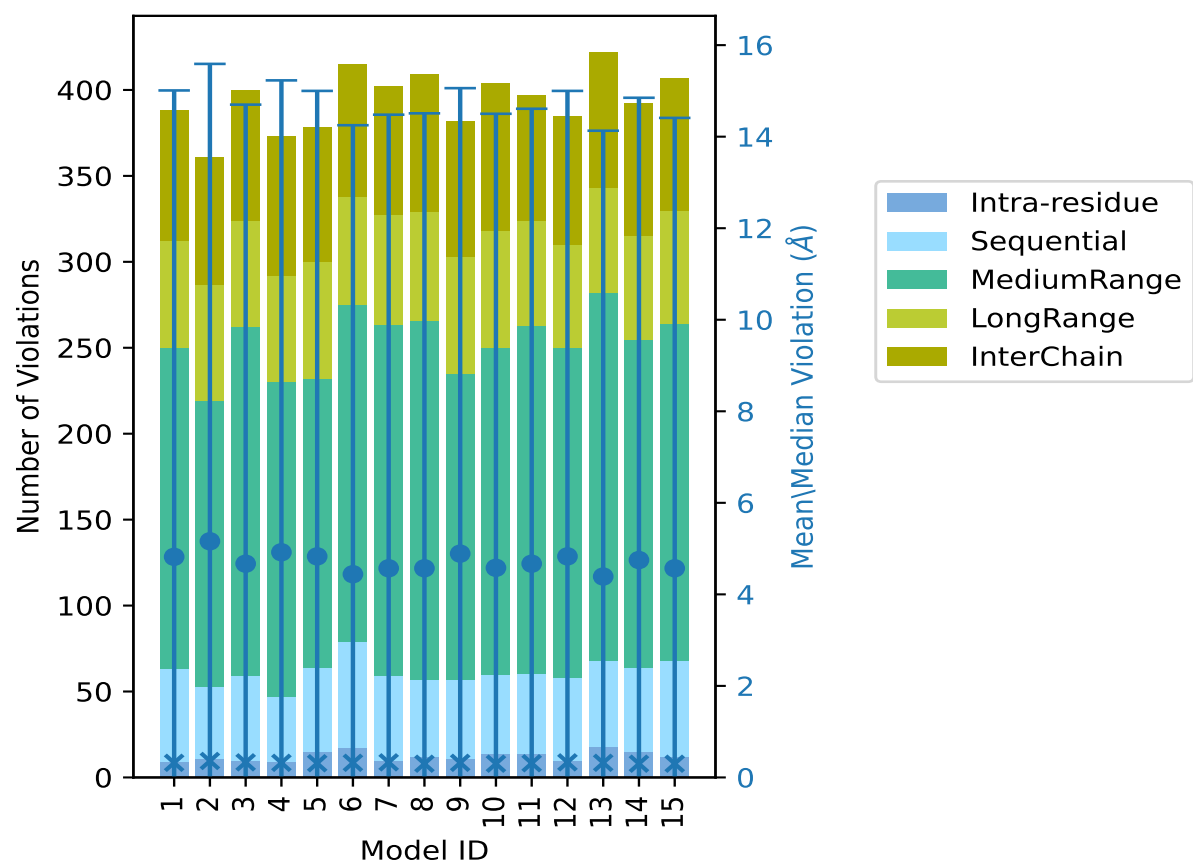


The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

## 9.3 Distance violation statistics for the ensemble ⓘ

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 724(IR:158, SQ:388, MR:143, LR:26, IC:9) 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] | % |
| 5 | 31 | 61 | 23 | 4 | 124 | 1 | 6.7 |
| 7 | 31 | 41 | 6 | 4 | 89 | 2 | 13.3 |
| 4 | 7 | 43 | 5 | 6 | 65 | 3 | 20.0 |
| 2 | 10 | 40 | 3 | 4 | 59 | 4 | 26.7 |
| 1 | 3 | 44 | 3 | 3 | 54 | 5 | 33.3 |
| 0 | 9 | 25 | 6 | 5 | 45 | 6 | 40.0 |
| 2 | 5 | 19 | 0 | 2 | 28 | 7 | 46.7 |
| 3 | 4 | 19 | 1 | 3 | 30 | 8 | 53.3 |
| 0 | 4 | 8 | 0 | 3 | 15 | 9 | 60.0 |
| 6 | 3 | 6 | 2 | 3 | 20 | 10 | 66.7 |
| 0 | 2 | 7 | 2 | 1 | 12 | 11 | 73.3 |
| 0 | 5 | 6 | 2 | 1 | 14 | 12 | 80.0 |
| 0 | 2 | 11 | 3 | 2 | 18 | 13 | 86.7 |
| 0 | 5 | 10 | 5 | 2 | 22 | 14 | 93.3 |
| 3 | 13 | 34 | 44 | 60 | 154 | 15 | 100.0 |

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

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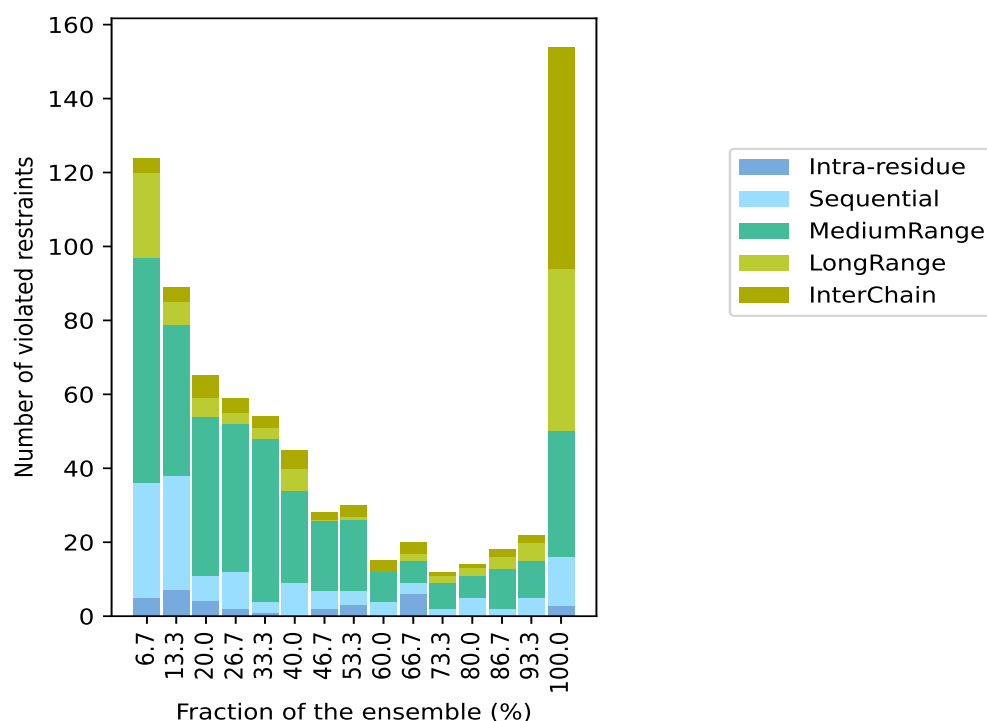


## 9.4   Most violated distance restraints in the ensemble  ⓘ

### 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
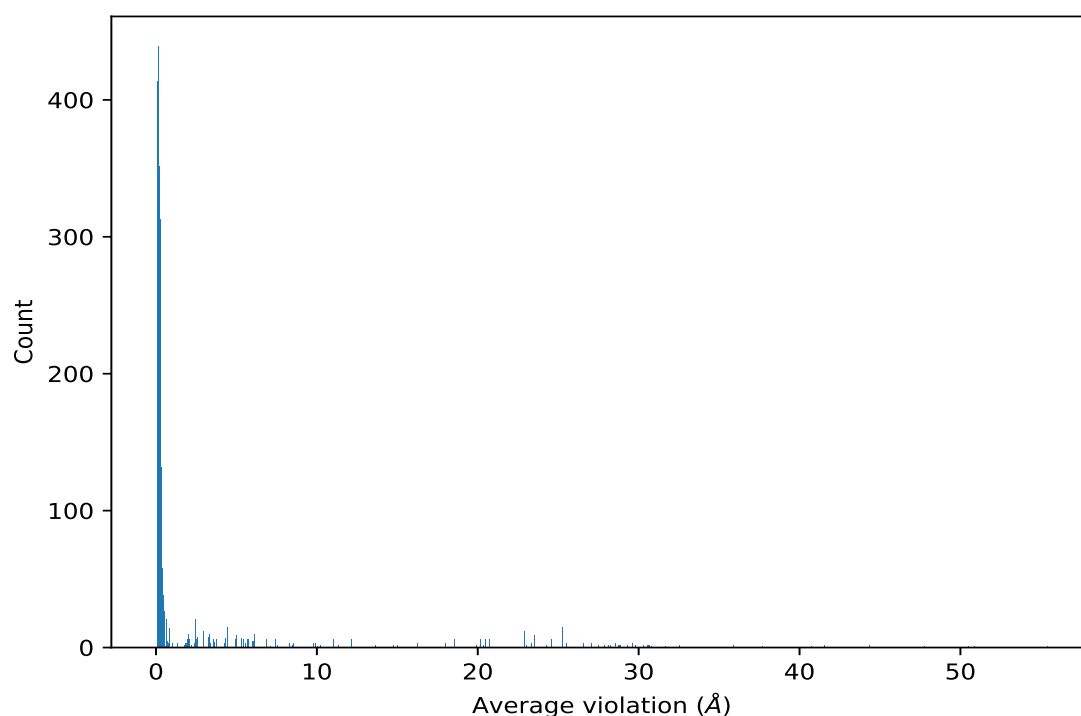
## 9.4.2　Table: Most violated distance restraints ⓘ

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 15 | 55.42 | 0.91 | 55.54 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 15 | 50.87 | 0.91 | 50.41 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 15 | 50.52 | 0.88 | 50.68 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 15 | 47.76 | 0.56 | 47.6 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 15 | 44.31 | 0.6 | 44.38 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 15 | 44.31 | 0.6 | 44.38 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 15 | 41.56 | 0.56 | 41.55 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 15 | 41.56 | 0.56 | 41.55 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 15 | 40.79 | 1.03 | 40.8 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 15 | 37.7 | 0.93 | 37.76 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 15 | 35.91 | 0.64 | 35.98 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 15 | 35.91 | 0.64 | 35.98 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 15 | 32.52 | 0.8 | 32.43 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 15 | 32.52 | 0.8 | 32.43 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 15 | 31.69 | 0.64 | 31.53 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 15 | 30.82 | 0.77 | 31.01 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 15 | 30.7 | 0.43 | 30.75 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 15 | 30.7 | 0.43 | 30.75 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 15 | 30.62 | 0.58 | 30.7 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 15 | 30.62 | 0.58 | 30.7 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 15 | 30.56 | 0.48 | 30.46 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 15 | 30.56 | 0.48 | 30.46 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 15 | 30.33 | 0.54 | 30.35 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 15 | 30.33 | 0.54 | 30.35 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 15 | 29.8 | 0.49 | 29.8 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 15 | 29.8 | 0.49 | 29.8 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 15 | 29.65 | 0.51 | 29.55 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 15 | 29.65 | 0.51 | 29.55 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 15 | 29.65 | 0.51 | 29.55 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 15 | 29.3 | 0.43 | 29.32 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 15 | 29.3 | 0.43 | 29.32 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 15 | 28.89 | 0.56 | 28.77 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 15 | 28.89 | 0.56 | 28.77 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 15 | 28.83 | 0.53 | 28.85 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 15 | 28.83 | 0.53 | 28.85 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 15 | 28.77 | 0.48 | 28.79 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 15 | 28.77 | 0.48 | 28.79 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 15 | 28.59 | 0.43 | 28.53 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 15 | 28.59 | 0.43 | 28.53 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 15 | 28.59 | 0.43 | 28.53 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 15 | 28.28 | 0.82 | 28.13 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 15 | 28.28 | 0.82 | 28.13 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 15 | 28.14 | 0.54 | 28.18 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 15 | 28.14 | 0.54 | 28.18 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 15 | 27.9 | 0.39 | 28.0 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 15 | 27.9 | 0.39 | 28.0 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 15 | 27.51 | 0.69 | 27.61 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 15 | 27.51 | 0.69 | 27.61 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 15 | 27.09 | 0.85 | 27.04 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 15 | 27.09 | 0.85 | 27.04 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 15 | 27.09 | 0.85 | 27.04 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 15 | 26.58 | 1.04 | 26.72 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 15 | 26.58 | 1.04 | 26.72 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 15 | 26.58 | 1.04 | 26.72 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 15 | 25.52 | 0.76 | 25.62 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 15 | 25.52 | 0.76 | 25.62 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 15 | 25.52 | 0.76 | 25.62 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 15 | 25.28 | 0.83 | 25.3 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 15 | 25.28 | 0.83 | 25.3 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 15 | 25.28 | 0.83 | 25.3 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 15 | 25.27 | 0.61 | 25.15 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 15 | 25.27 | 0.61 | 25.15 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 15 | 25.27 | 0.61 | 25.15 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 15 | 25.27 | 0.61 | 25.15 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 15 | 25.27 | 0.61 | 25.15 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 15 | 25.27 | 0.61 | 25.15 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 15 | 25.26 | 0.56 | 25.49 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 15 | 25.26 | 0.56 | 25.49 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 15 | 25.26 | 0.56 | 25.49 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 15 | 25.26 | 0.56 | 25.49 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 15 | 25.26 | 0.56 | 25.49 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 15 | 25.26 | 0.56 | 25.49 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 15 | 24.59 | 0.5 | 24.45 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 15 | 24.59 | 0.5 | 24.45 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 15 | 24.59 | 0.5 | 24.45 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 15 | 24.59 | 0.5 | 24.45 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 15 | 24.59 | 0.5 | 24.45 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 15 | 24.59 | 0.5 | 24.45 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 15 | 24.29 | 0.54 | 24.23 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 15 | 24.29 | 0.54 | 24.23 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 15 | 23.53 | 0.96 | 23.43 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 15 | 23.53 | 0.96 | 23.43 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 15 | 23.53 | 0.96 | 23.43 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 15 | 23.5 | 0.9 | 23.48 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 15 | 23.5 | 0.9 | 23.48 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 15 | 23.5 | 0.9 | 23.48 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 15 | 23.5 | 0.9 | 23.48 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 15 | 23.5 | 0.9 | 23.48 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 15 | 23.5 | 0.9 | 23.48 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 15 | 23.3 | 0.63 | 23.09 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 15 | 23.3 | 0.63 | 23.09 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 15 | 23.3 | 0.63 | 23.09 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 15 | 23.01 | 0.63 | 22.95 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 15 | 23.01 | 0.63 | 22.95 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 15 | 22.89 | 0.73 | 23.04 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 15 | 22.89 | 0.73 | 23.04 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 15 | 22.89 | 0.73 | 23.04 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 15 | 22.89 | 0.73 | 23.04 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 15 | 22.89 | 0.73 | 23.04 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 15 | 22.89 | 0.73 | 23.04 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|-----|--------|--------|-----------|----------|-----------|------------|
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 15 | 22.86 | 0.6 | 23.1 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 15 | 22.86 | 0.6 | 23.1 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 15 | 22.86 | 0.6 | 23.1 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 15 | 22.86 | 0.6 | 23.1 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 15 | 22.86 | 0.6 | 23.1 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 15 | 22.86 | 0.6 | 23.1 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 15 | 20.74 | 0.65 | 20.65 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 15 | 20.74 | 0.65 | 20.65 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 15 | 20.74 | 0.65 | 20.65 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 15 | 20.74 | 0.65 | 20.65 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 15 | 20.74 | 0.65 | 20.65 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 15 | 20.74 | 0.65 | 20.65 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 15 | 20.49 | 1.37 | 20.56 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 15 | 20.49 | 1.37 | 20.56 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 15 | 20.49 | 1.37 | 20.56 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 15 | 20.49 | 1.37 | 20.56 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 15 | 20.49 | 1.37 | 20.56 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 15 | 20.49 | 1.37 | 20.56 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 15 | 20.35 | 0.55 | 20.3 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 15 | 20.35 | 0.55 | 20.3 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 15 | 20.19 | 0.49 | 20.22 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 15 | 20.19 | 0.49 | 20.22 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 15 | 20.19 | 0.49 | 20.22 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 15 | 20.19 | 0.49 | 20.22 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 15 | 20.19 | 0.49 | 20.22 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 15 | 20.19 | 0.49 | 20.22 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 15 | 19.92 | 0.72 | 19.82 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 15 | 19.92 | 0.72 | 19.82 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 15 | 18.54 | 0.94 | 18.4 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 15 | 18.54 | 0.94 | 18.4 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 15 | 18.54 | 0.94 | 18.4 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 15 | 18.54 | 0.94 | 18.4 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 15 | 18.54 | 0.94 | 18.4 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 15 | 18.54 | 0.94 | 18.4 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 15 | 17.96 | 0.71 | 18.02 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 15 | 17.96 | 0.71 | 18.02 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 15 | 17.96 | 0.71 | 18.02 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 15 | 16.26 | 0.51 | 16.48 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 15 | 16.26 | 0.51 | 16.48 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 15 | 16.26 | 0.51 | 16.48 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 15 | 15.0 | 0.36 | 15.05 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 15 | 15.0 | 0.36 | 15.05 |

*Continued on next page...*

*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|-----|--------|--------|-----------|----------|-----------|------------|
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 15 | 14.77 | 0.62 | 14.76 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 15 | 14.77 | 0.62 | 14.76 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 15 | 13.68 | 0.59 | 13.79 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 15 | 13.68 | 0.59 | 13.79 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 15 | 12.14 | 0.9 | 12.24 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 15 | 12.14 | 0.9 | 12.24 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 15 | 12.14 | 0.9 | 12.24 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 15 | 12.14 | 0.9 | 12.24 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 15 | 12.14 | 0.9 | 12.24 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 15 | 12.14 | 0.9 | 12.24 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 15 | 11.33 | 0.45 | 11.39 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 15 | 11.33 | 0.45 | 11.39 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 15 | 11.02 | 0.84 | 10.76 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 15 | 11.02 | 0.84 | 10.76 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 15 | 11.02 | 0.84 | 10.76 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 15 | 11.02 | 0.84 | 10.76 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 15 | 11.02 | 0.84 | 10.76 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 15 | 11.02 | 0.84 | 10.76 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 15 | 10.22 | 0.61 | 10.45 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 15 | 10.22 | 0.61 | 10.45 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 15 | 10.04 | 1.32 | 9.98 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 15 | 9.92 | 1.22 | 10.34 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 15 | 9.92 | 1.22 | 10.34 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 15 | 9.92 | 1.22 | 10.34 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 15 | 9.75 | 0.78 | 9.49 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 15 | 9.75 | 0.78 | 9.49 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 15 | 9.75 | 0.78 | 9.49 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 15 | 8.51 | 0.72 | 8.48 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 15 | 8.51 | 0.72 | 8.48 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 15 | 8.51 | 0.72 | 8.48 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 15 | 8.48 | 0.51 | 8.41 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 15 | 8.48 | 0.51 | 8.41 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 15 | 8.34 | 0.62 | 8.57 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 15 | 8.34 | 0.62 | 8.57 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 15 | 8.34 | 0.62 | 8.57 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 15 | 7.57 | 0.78 | 7.59 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 15 | 7.57 | 0.78 | 7.59 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 15 | 7.44 | 0.52 | 7.39 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 15 | 7.44 | 0.52 | 7.39 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 15 | 7.44 | 0.52 | 7.39 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 15 | 7.44 | 0.52 | 7.39 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 15 | 7.44 | 0.52 | 7.39 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 15 | 7.44 | 0.52 | 7.39 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 15 | 7.11 | 0.31 | 7.12 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 15 | 6.89 | 0.53 | 6.86 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 15 | 6.89 | 0.53 | 6.86 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 15 | 6.89 | 0.53 | 6.86 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 15 | 6.89 | 0.53 | 6.86 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 15 | 6.89 | 0.53 | 6.86 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 15 | 6.89 | 0.53 | 6.86 |
| (2,1061) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD2 | 15 | 6.12 | 2.33 | 7.22 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 15 | 6.12 | 2.33 | 7.22 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD2 | 15 | 6.12 | 2.33 | 7.22 |
| (2,1061) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD1 | 15 | 6.12 | 2.33 | 7.22 |
| (2,1061) | 1:761:A:ARG:HH22 | 1:758:A:ASP:OD1 | 15 | 6.12 | 2.33 | 7.22 |
| (2,1486) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD2 | 15 | 6.12 | 2.33 | 7.22 |
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 15 | 6.12 | 2.33 | 7.22 |
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD2 | 15 | 6.12 | 2.33 | 7.22 |
| (2,1486) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD1 | 15 | 6.12 | 2.33 | 7.22 |
| (2,1486) | 1:761:A:ARG:HH22 | 1:758:A:ASP:OD1 | 15 | 6.12 | 2.33 | 7.22 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 15 | 6.1 | 0.64 | 6.15 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 15 | 6.1 | 0.64 | 6.15 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 15 | 6.1 | 0.64 | 6.15 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 15 | 6.09 | 0.69 | 6.28 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 15 | 6.09 | 0.69 | 6.28 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 15 | 5.98 | 0.53 | 5.76 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 15 | 5.98 | 0.53 | 5.76 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 15 | 5.98 | 0.53 | 5.76 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 15 | 5.98 | 0.35 | 5.98 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 15 | 5.98 | 0.35 | 5.98 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 15 | 5.8 | 1.31 | 6.33 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 15 | 5.8 | 1.31 | 6.33 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 15 | 5.8 | 1.31 | 6.33 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 15 | 5.8 | 1.31 | 6.33 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 15 | 5.8 | 1.31 | 6.33 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 15 | 5.8 | 1.31 | 6.33 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 15 | 5.67 | 0.38 | 5.58 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 15 | 5.67 | 0.38 | 5.58 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 15 | 5.67 | 0.38 | 5.58 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 15 | 5.67 | 0.38 | 5.58 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 15 | 5.67 | 0.38 | 5.58 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 15 | 5.67 | 0.38 | 5.58 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 15 | 5.6 | 0.64 | 5.65 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 15 | 5.6 | 0.64 | 5.65 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 15 | 5.6 | 0.64 | 5.65 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 15 | 5.4 | 1.05 | 5.6 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 15 | 5.4 | 1.05 | 5.6 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 15 | 5.4 | 1.05 | 5.6 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 15 | 5.4 | 1.05 | 5.6 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 15 | 5.4 | 1.05 | 5.6 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 15 | 5.4 | 1.05 | 5.6 |
| (2,636) | 1:761:B:ARG:HH21 | 1:758:B:ASP:OD1 | 15 | 5.32 | 2.7 | 6.45 |
| (2,636) | 1:761:B:ARG:HH11 | 1:758:B:ASP:OD1 | 15 | 5.32 | 2.7 | 6.45 |
| (2,636) | 1:761:B:ARG:HH22 | 1:758:B:ASP:OD2 | 15 | 5.32 | 2.7 | 6.45 |
| (2,636) | 1:761:B:ARG:HH12 | 1:758:B:ASP:OD2 | 15 | 5.32 | 2.7 | 6.45 |
| (2,636) | 1:761:B:ARG:HH11 | 1:758:B:ASP:OD2 | 15 | 5.32 | 2.7 | 6.45 |
| (2,636) | 1:761:B:ARG:HH21 | 1:758:B:ASP:OD2 | 15 | 5.32 | 2.7 | 6.45 |
| (2,636) | 1:761:B:ARG:HH12 | 1:758:B:ASP:OD1 | 15 | 5.32 | 2.7 | 6.45 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 15 | 5.0 | 0.62 | 4.97 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 15 | 5.0 | 0.62 | 4.97 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 15 | 5.0 | 0.62 | 4.97 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 15 | 5.0 | 0.62 | 4.97 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 15 | 5.0 | 0.62 | 4.97 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 15 | 5.0 | 0.62 | 4.97 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 15 | 5.0 | 0.62 | 4.97 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 15 | 5.0 | 0.62 | 4.97 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 15 | 5.0 | 0.62 | 4.97 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 15 | 4.9 | 0.84 | 5.03 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 15 | 4.9 | 0.84 | 5.03 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 15 | 4.9 | 0.84 | 5.03 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 15 | 4.9 | 0.84 | 5.03 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 15 | 4.9 | 0.84 | 5.03 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 15 | 4.9 | 0.84 | 5.03 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 15 | 4.47 | 0.53 | 4.68 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 15 | 4.47 | 0.53 | 4.68 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 15 | 4.47 | 0.53 | 4.68 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 15 | 4.47 | 0.53 | 4.68 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 15 | 4.47 | 0.53 | 4.68 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 15 | 4.47 | 0.53 | 4.68 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 15 | 4.47 | 0.53 | 4.68 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 15 | 4.47 | 0.53 | 4.68 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 15 | 4.47 | 0.53 | 4.68 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 15 | 4.46 | 0.8 | 4.23 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 15 | 4.46 | 0.8 | 4.23 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 15 | 4.46 | 0.8 | 4.23 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 15 | 4.46 | 0.8 | 4.23 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|-----|--------|--------|-----------|----------|-----------|------------|
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 15 | 4.46 | 0.8 | 4.23 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 15 | 4.46 | 0.8 | 4.23 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD1 | 15 | 4.35 | 1.76 | 4.19 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD2 | 15 | 4.35 | 1.76 | 4.19 |
| (2,635) | 1:744:B:ARG:HH11 | 1:741:B:ASP:OD2 | 15 | 4.35 | 1.76 | 4.19 |
| (2,635) | 1:744:B:ARG:HH11 | 1:741:B:ASP:OD1 | 15 | 4.35 | 1.76 | 4.19 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 15 | 4.33 | 0.4 | 4.47 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 15 | 4.33 | 0.4 | 4.47 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 15 | 4.33 | 0.4 | 4.47 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 15 | 4.28 | 0.78 | 4.54 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 15 | 4.28 | 0.78 | 4.54 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 15 | 4.28 | 0.78 | 4.54 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 15 | 3.76 | 0.49 | 3.73 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 15 | 3.76 | 0.49 | 3.73 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 15 | 3.76 | 0.49 | 3.73 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 15 | 3.76 | 0.49 | 3.73 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 15 | 3.76 | 0.49 | 3.73 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 15 | 3.76 | 0.49 | 3.73 |
| (2,634) | 1:740:B:ARG:HH11 | 1:743:B:ASP:OD1 | 15 | 3.61 | 1.35 | 3.52 |
| (2,634) | 1:740:B:ARG:HH11 | 1:743:B:ASP:OD2 | 15 | 3.61 | 1.35 | 3.52 |
| (2,634) | 1:740:B:ARG:HH21 | 1:743:B:ASP:OD1 | 15 | 3.61 | 1.35 | 3.52 |
| (2,634) | 1:740:B:ARG:HH21 | 1:743:B:ASP:OD2 | 15 | 3.61 | 1.35 | 3.52 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 15 | 3.56 | 0.59 | 3.38 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 15 | 3.56 | 0.59 | 3.38 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 15 | 3.56 | 0.59 | 3.38 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 15 | 3.56 | 0.59 | 3.38 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 15 | 3.56 | 0.59 | 3.38 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 15 | 3.56 | 0.59 | 3.38 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 15 | 3.39 | 0.76 | 3.63 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 15 | 3.39 | 0.76 | 3.63 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 15 | 3.39 | 0.76 | 3.63 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 15 | 3.29 | 0.68 | 3.38 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 15 | 3.29 | 0.68 | 3.38 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 15 | 2.97 | 0.41 | 2.92 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 15 | 2.97 | 0.41 | 2.92 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 15 | 2.97 | 0.41 | 2.92 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 15 | 2.97 | 0.41 | 2.92 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 15 | 2.97 | 0.41 | 2.92 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 15 | 2.97 | 0.41 | 2.92 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 15 | 2.96 | 0.48 | 2.97 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 15 | 2.96 | 0.48 | 2.97 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 15 | 2.96 | 0.48 | 2.97 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|------|--------|--------|--------|----------|---------|------------|
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 15 | 2.96 | 0.48 | 2.97 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 15 | 2.96 | 0.48 | 2.97 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 15 | 2.96 | 0.48 | 2.97 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 15 | 2.92 | 1.01 | 2.92 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 15 | 2.92 | 1.01 | 2.92 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 15 | 2.92 | 1.01 | 2.92 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 15 | 2.92 | 1.01 | 2.92 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 15 | 2.92 | 1.01 | 2.92 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 15 | 2.92 | 1.01 | 2.92 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 15 | 2.53 | 0.57 | 2.42 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 15 | 2.53 | 0.57 | 2.42 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 15 | 2.53 | 0.57 | 2.42 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 15 | 2.49 | 0.43 | 2.48 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 15 | 2.49 | 0.43 | 2.48 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 15 | 2.49 | 0.43 | 2.48 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 15 | 2.49 | 0.43 | 2.48 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 15 | 2.49 | 0.43 | 2.48 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 15 | 2.49 | 0.43 | 2.48 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 15 | 2.49 | 0.43 | 2.48 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 15 | 2.49 | 0.43 | 2.48 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 15 | 2.49 | 0.43 | 2.48 |
| (2,1059) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD2 | 15 | 2.49 | 1.06 | 2.15 |
| (2,1059) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD2 | 15 | 2.49 | 1.06 | 2.15 |
| (2,1059) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD1 | 15 | 2.49 | 1.06 | 2.15 |
| (2,1059) | 1:740:A:ARG:HH12 | 1:743:A:ASP:OD1 | 15 | 2.49 | 1.06 | 2.15 |
| (2,1059) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 15 | 2.49 | 1.06 | 2.15 |
| (2,1484) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD2 | 15 | 2.49 | 1.06 | 2.15 |
| (2,1484) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD2 | 15 | 2.49 | 1.06 | 2.15 |
| (2,1484) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD1 | 15 | 2.49 | 1.06 | 2.15 |
| (2,1484) | 1:740:A:ARG:HH12 | 1:743:A:ASP:OD1 | 15 | 2.49 | 1.06 | 2.15 |
| (2,1484) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 15 | 2.49 | 1.06 | 2.15 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 15 | 2.42 | 1.11 | 1.98 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 15 | 2.42 | 1.11 | 1.98 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 15 | 2.42 | 1.11 | 1.98 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 15 | 2.2 | 0.79 | 2.47 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 15 | 2.2 | 0.79 | 2.47 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 15 | 1.98 | 0.67 | 1.71 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 15 | 1.98 | 0.67 | 1.71 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 15 | 1.98 | 0.67 | 1.71 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 15 | 1.98 | 0.67 | 1.71 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 15 | 1.98 | 0.67 | 1.71 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 15 | 1.98 | 0.67 | 1.71 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|-----|--------|--------|--------|----------|----------|------------|
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 15 | 1.88 | 1.03 | 2.0 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 15 | 1.88 | 1.03 | 2.0 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 15 | 1.88 | 1.03 | 2.0 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 15 | 1.79 | 0.43 | 1.71 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 15 | 1.79 | 0.43 | 1.71 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 15 | 1.0 | 0.19 | 1.07 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 15 | 0.82 | 0.25 | 0.75 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 15 | 0.82 | 0.25 | 0.75 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 15 | 0.82 | 0.09 | 0.81 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 15 | 0.82 | 0.09 | 0.81 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 15 | 0.82 | 0.09 | 0.81 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 15 | 0.82 | 0.09 | 0.81 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 15 | 0.82 | 0.09 | 0.81 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 15 | 0.82 | 0.09 | 0.81 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 15 | 0.76 | 0.1 | 0.78 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 15 | 0.76 | 0.1 | 0.78 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 15 | 0.76 | 0.1 | 0.78 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 15 | 0.73 | 0.12 | 0.76 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 15 | 0.73 | 0.12 | 0.76 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 15 | 0.72 | 0.17 | 0.71 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 15 | 0.72 | 0.17 | 0.71 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 15 | 0.71 | 0.18 | 0.74 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 15 | 0.63 | 0.1 | 0.65 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 15 | 0.63 | 0.1 | 0.65 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 15 | 0.56 | 0.15 | 0.56 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 15 | 0.54 | 0.22 | 0.56 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 15 | 0.54 | 0.22 | 0.56 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 15 | 0.54 | 0.22 | 0.56 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 15 | 0.54 | 0.13 | 0.57 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 15 | 0.54 | 0.12 | 0.53 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 15 | 0.54 | 0.12 | 0.53 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 15 | 0.51 | 0.18 | 0.53 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 15 | 0.5 | 0.13 | 0.48 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 15 | 0.5 | 0.13 | 0.48 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 15 | 0.48 | 0.18 | 0.42 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 15 | 0.48 | 0.18 | 0.42 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 15 | 0.47 | 0.13 | 0.45 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 15 | 0.47 | 0.14 | 0.47 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 15 | 0.47 | 0.14 | 0.47 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 15 | 0.47 | 0.14 | 0.47 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 15 | 0.47 | 0.14 | 0.47 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 15 | 0.47 | 0.14 | 0.47 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 15 | 0.47 | 0.14 | 0.47 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 15 | 0.45 | 0.1 | 0.43 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 15 | 0.45 | 0.1 | 0.43 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 15 | 0.44 | 0.12 | 0.45 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 15 | 0.43 | 0.2 | 0.37 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 15 | 0.43 | 0.2 | 0.37 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 15 | 0.43 | 0.2 | 0.37 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 15 | 0.43 | 0.2 | 0.37 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 15 | 0.41 | 0.17 | 0.46 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 15 | 0.41 | 0.17 | 0.46 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 15 | 0.4 | 0.07 | 0.4 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 15 | 0.4 | 0.07 | 0.4 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 15 | 0.4 | 0.07 | 0.4 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 15 | 0.4 | 0.19 | 0.39 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 15 | 0.4 | 0.19 | 0.39 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 15 | 0.4 | 0.19 | 0.39 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 15 | 0.4 | 0.19 | 0.39 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 15 | 0.4 | 0.19 | 0.39 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 15 | 0.4 | 0.19 | 0.39 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 15 | 0.4 | 0.04 | 0.41 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 15 | 0.4 | 0.04 | 0.41 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 15 | 0.4 | 0.04 | 0.41 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 15 | 0.4 | 0.04 | 0.41 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 15 | 0.4 | 0.04 | 0.41 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 15 | 0.4 | 0.04 | 0.41 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 15 | 0.39 | 0.09 | 0.41 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 15 | 0.39 | 0.11 | 0.4 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 15 | 0.39 | 0.11 | 0.4 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 15 | 0.38 | 0.14 | 0.38 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 15 | 0.38 | 0.14 | 0.38 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 15 | 0.38 | 0.14 | 0.38 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 15 | 0.38 | 0.14 | 0.38 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 15 | 0.38 | 0.14 | 0.38 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 15 | 0.38 | 0.14 | 0.38 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 15 | 0.37 | 0.1 | 0.38 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 15 | 0.37 | 0.1 | 0.38 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 15 | 0.37 | 0.09 | 0.35 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 15 | 0.37 | 0.09 | 0.35 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 15 | 0.36 | 0.1 | 0.37 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 15 | 0.36 | 0.1 | 0.37 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 15 | 0.36 | 0.1 | 0.37 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 15 | 0.36 | 0.1 | 0.37 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 15 | 0.36 | 0.1 | 0.37 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 15 | 0.36 | 0.1 | 0.37 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 15 | 0.36 | 0.08 | 0.35 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 15 | 0.36 | 0.08 | 0.35 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 15 | 0.35 | 0.07 | 0.36 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 15 | 0.35 | 0.07 | 0.36 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 15 | 0.35 | 0.07 | 0.36 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 15 | 0.34 | 0.13 | 0.33 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 15 | 0.33 | 0.06 | 0.32 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 15 | 0.33 | 0.06 | 0.32 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 15 | 0.33 | 0.06 | 0.32 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 15 | 0.31 | 0.08 | 0.28 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 15 | 0.31 | 0.08 | 0.28 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 15 | 0.3 | 0.08 | 0.32 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 15 | 0.3 | 0.08 | 0.32 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 15 | 0.28 | 0.09 | 0.26 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 15 | 0.27 | 0.09 | 0.26 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 15 | 0.24 | 0.11 | 0.22 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 15 | 0.24 | 0.11 | 0.22 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 15 | 0.22 | 0.07 | 0.22 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 15 | 0.22 | 0.07 | 0.22 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 15 | 0.22 | 0.07 | 0.22 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 15 | 0.22 | 0.07 | 0.22 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 15 | 0.22 | 0.07 | 0.22 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 15 | 0.22 | 0.07 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 15 | 0.22 | 0.07 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 15 | 0.22 | 0.07 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 15 | 0.22 | 0.07 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 15 | 0.22 | 0.07 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 15 | 0.22 | 0.07 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 15 | 0.22 | 0.07 | 0.22 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 15 | 0.2 | 0.01 | 0.2 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 15 | 0.18 | 0.07 | 0.17 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 15 | 0.18 | 0.07 | 0.17 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 15 | 0.18 | 0.07 | 0.17 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 15 | 0.18 | 0.07 | 0.17 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 15 | 0.18 | 0.07 | 0.17 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 15 | 0.18 | 0.07 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 15 | 0.18 | 0.07 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 15 | 0.18 | 0.07 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 15 | 0.18 | 0.07 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 15 | 0.18 | 0.07 | 0.17 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 15 | 0.18 | 0.07 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 15 | 0.18 | 0.07 | 0.17 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 15 | 0.18 | 0.01 | 0.18 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 15 | 0.18 | 0.01 | 0.18 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 15 | 0.18 | 0.03 | 0.19 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 15 | 0.18 | 0.03 | 0.19 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 15 | 0.17 | 0.01 | 0.17 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 14 | 2.59 | 1.51 | 2.5 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD2 | 14 | 2.59 | 1.51 | 2.5 |
| (2,1060) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD2 | 14 | 2.59 | 1.51 | 2.5 |
| (2,1060) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD1 | 14 | 2.59 | 1.51 | 2.5 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 14 | 2.59 | 1.51 | 2.5 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD2 | 14 | 2.59 | 1.51 | 2.5 |
| (2,1485) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD2 | 14 | 2.59 | 1.51 | 2.5 |
| (2,1485) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD1 | 14 | 2.59 | 1.51 | 2.5 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 14 | 2.45 | 0.7 | 2.63 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 14 | 2.45 | 0.7 | 2.63 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 14 | 2.06 | 0.6 | 2.12 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 14 | 2.06 | 0.6 | 2.12 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 14 | 2.06 | 0.6 | 2.12 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 14 | 2.06 | 0.6 | 2.12 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 14 | 2.06 | 0.6 | 2.12 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 14 | 2.06 | 0.6 | 2.12 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 14 | 1.84 | 0.21 | 1.9 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 14 | 1.84 | 0.21 | 1.9 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 14 | 1.84 | 0.21 | 1.9 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 14 | 1.34 | 0.21 | 1.4 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 14 | 1.34 | 0.21 | 1.4 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 14 | 1.34 | 0.21 | 1.4 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 14 | 0.48 | 0.02 | 0.48 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 14 | 0.44 | 0.18 | 0.43 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 14 | 0.41 | 0.23 | 0.4 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 14 | 0.41 | 0.23 | 0.4 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 14 | 0.32 | 0.09 | 0.31 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 14 | 0.3 | 0.09 | 0.32 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 14 | 0.3 | 0.09 | 0.32 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 14 | 0.29 | 0.09 | 0.3 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 14 | 0.29 | 0.09 | 0.3 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 14 | 0.29 | 0.1 | 0.29 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 14 | 0.29 | 0.1 | 0.29 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 14 | 0.29 | 0.1 | 0.29 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 14 | 0.29 | 0.1 | 0.29 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 14 | 0.27 | 0.11 | 0.22 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 14 | 0.27 | 0.11 | 0.22 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 14 | 0.27 | 0.11 | 0.22 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 14 | 0.27 | 0.11 | 0.22 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 14 | 0.27 | 0.11 | 0.22 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 14 | 0.27 | 0.11 | 0.22 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 14 | 0.26 | 0.08 | 0.27 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 14 | 0.26 | 0.08 | 0.27 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 14 | 0.26 | 0.08 | 0.27 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 14 | 0.26 | 0.08 | 0.27 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 14 | 0.26 | 0.08 | 0.27 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 14 | 0.26 | 0.08 | 0.27 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 14 | 0.26 | 0.08 | 0.27 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 14 | 0.26 | 0.08 | 0.27 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 14 | 0.26 | 0.08 | 0.27 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 14 | 0.26 | 0.08 | 0.27 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 14 | 0.26 | 0.08 | 0.27 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 14 | 0.26 | 0.08 | 0.27 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 14 | 0.23 | 0.08 | 0.22 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 14 | 0.23 | 0.08 | 0.22 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 14 | 0.21 | 0.08 | 0.2 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 14 | 0.2 | 0.02 | 0.2 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 14 | 0.19 | 0.06 | 0.18 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 14 | 0.19 | 0.06 | 0.18 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 14 | 0.19 | 0.06 | 0.18 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 14 | 0.18 | 0.04 | 0.19 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 14 | 0.18 | 0.04 | 0.19 |
| (2,1063) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE1 | 13 | 3.33 | 1.25 | 3.54 |
| (2,1063) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE2 | 13 | 3.33 | 1.25 | 3.54 |
| (2,1063) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE2 | 13 | 3.33 | 1.25 | 3.54 |
| (2,1063) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE1 | 13 | 3.33 | 1.25 | 3.54 |
| (2,1063) | 1:780:A:ARG:HH22 | 1:783:A:GLU:OE1 | 13 | 3.33 | 1.25 | 3.54 |
| (2,1488) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE1 | 13 | 3.33 | 1.25 | 3.54 |
| (2,1488) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE2 | 13 | 3.33 | 1.25 | 3.54 |
| (2,1488) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE2 | 13 | 3.33 | 1.25 | 3.54 |
| (2,1488) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE1 | 13 | 3.33 | 1.25 | 3.54 |
| (2,1488) | 1:780:A:ARG:HH22 | 1:783:A:GLU:OE1 | 13 | 3.33 | 1.25 | 3.54 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 13 | 0.63 | 0.23 | 0.57 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 13 | 0.41 | 0.16 | 0.35 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 13 | 0.41 | 0.16 | 0.35 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 13 | 0.41 | 0.16 | 0.35 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 13 | 0.41 | 0.16 | 0.35 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 13 | 0.32 | 0.11 | 0.33 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 13 | 0.32 | 0.11 | 0.33 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 13 | 0.32 | 0.11 | 0.33 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 13 | 0.28 | 0.08 | 0.26 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 13 | 0.28 | 0.08 | 0.26 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 13 | 0.28 | 0.08 | 0.26 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 13 | 0.27 | 0.13 | 0.26 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 13 | 0.27 | 0.09 | 0.24 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 13 | 0.27 | 0.09 | 0.24 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 13 | 0.27 | 0.09 | 0.24 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 13 | 0.27 | 0.09 | 0.24 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 13 | 0.27 | 0.09 | 0.24 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 13 | 0.27 | 0.09 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 13 | 0.27 | 0.09 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 13 | 0.27 | 0.09 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 13 | 0.27 | 0.09 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 13 | 0.27 | 0.09 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 13 | 0.27 | 0.09 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 13 | 0.27 | 0.09 | 0.24 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 13 | 0.25 | 0.12 | 0.23 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 13 | 0.25 | 0.12 | 0.23 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 13 | 0.25 | 0.12 | 0.23 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 13 | 0.25 | 0.12 | 0.23 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 13 | 0.25 | 0.12 | 0.22 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 13 | 0.25 | 0.12 | 0.22 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 13 | 0.25 | 0.12 | 0.22 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 13 | 0.24 | 0.04 | 0.23 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 13 | 0.23 | 0.06 | 0.24 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 13 | 0.23 | 0.06 | 0.24 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 13 | 0.23 | 0.06 | 0.24 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 13 | 0.23 | 0.06 | 0.24 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 13 | 0.23 | 0.06 | 0.24 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 13 | 0.23 | 0.06 | 0.24 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 13 | 0.23 | 0.11 | 0.18 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 13 | 0.23 | 0.11 | 0.18 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 13 | 0.23 | 0.11 | 0.18 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 13 | 0.23 | 0.08 | 0.22 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 13 | 0.23 | 0.08 | 0.22 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 13 | 0.19 | 0.06 | 0.18 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 13 | 0.15 | 0.04 | 0.17 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 13 | 0.15 | 0.04 | 0.17 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 13 | 0.15 | 0.04 | 0.17 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,638) | 1:780:B:ARG:HH22 | 1:783:B:GLU:OE2 | 12 | 3.27 | 1.85 | 3.06 |
| (2,638) | 1:780:B:ARG:HH22 | 1:783:B:GLU:OE1 | 12 | 3.27 | 1.85 | 3.06 |
| (2,638) | 1:780:B:ARG:HH11 | 1:783:B:GLU:OE1 | 12 | 3.27 | 1.85 | 3.06 |
| (2,638) | 1:780:B:ARG:HH21 | 1:783:B:GLU:OE2 | 12 | 3.27 | 1.85 | 3.06 |
| (2,638) | 1:780:B:ARG:HH11 | 1:783:B:GLU:OE2 | 12 | 3.27 | 1.85 | 3.06 |
| (2,638) | 1:780:B:ARG:HH21 | 1:783:B:GLU:OE1 | 12 | 3.27 | 1.85 | 3.06 |
| (2,1062) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD1 | 12 | 2.02 | 1.09 | 2.32 |
| (2,1062) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD2 | 12 | 2.02 | 1.09 | 2.32 |
| (2,1062) | 1:770:A:ARG:HH22 | 1:773:A:ASP:OD1 | 12 | 2.02 | 1.09 | 2.32 |
| (2,1062) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD1 | 12 | 2.02 | 1.09 | 2.32 |
| (2,1062) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD2 | 12 | 2.02 | 1.09 | 2.32 |
| (2,1487) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD1 | 12 | 2.02 | 1.09 | 2.32 |
| (2,1487) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD2 | 12 | 2.02 | 1.09 | 2.32 |
| (2,1487) | 1:770:A:ARG:HH22 | 1:773:A:ASP:OD1 | 12 | 2.02 | 1.09 | 2.32 |
| (2,1487) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD1 | 12 | 2.02 | 1.09 | 2.32 |
| (2,1487) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD2 | 12 | 2.02 | 1.09 | 2.32 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 12 | 0.42 | 0.17 | 0.42 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 12 | 0.42 | 0.17 | 0.42 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 12 | 0.42 | 0.17 | 0.42 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 12 | 0.42 | 0.2 | 0.44 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 12 | 0.42 | 0.2 | 0.44 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 12 | 0.42 | 0.2 | 0.44 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 12 | 0.42 | 0.2 | 0.44 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 12 | 0.31 | 0.14 | 0.34 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 12 | 0.31 | 0.14 | 0.34 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 12 | 0.31 | 0.14 | 0.34 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 12 | 0.31 | 0.14 | 0.34 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 12 | 0.31 | 0.14 | 0.34 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 12 | 0.31 | 0.14 | 0.34 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 12 | 0.31 | 0.14 | 0.34 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 12 | 0.31 | 0.14 | 0.34 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 12 | 0.31 | 0.14 | 0.34 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 12 | 0.31 | 0.14 | 0.34 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 12 | 0.31 | 0.14 | 0.34 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 12 | 0.31 | 0.14 | 0.34 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 12 | 0.28 | 0.14 | 0.22 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 12 | 0.28 | 0.14 | 0.22 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 12 | 0.28 | 0.15 | 0.22 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 12 | 0.28 | 0.15 | 0.22 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 12 | 0.28 | 0.15 | 0.22 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 12 | 0.28 | 0.15 | 0.22 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 12 | 0.28 | 0.15 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|-----|--------|--------|-----------|----------|-----------|------------|
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 12 | 0.28 | 0.15 | 0.22 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 12 | 0.28 | 0.15 | 0.22 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 12 | 0.28 | 0.15 | 0.22 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 12 | 0.28 | 0.15 | 0.22 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 12 | 0.28 | 0.15 | 0.22 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 12 | 0.28 | 0.15 | 0.22 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 12 | 0.28 | 0.15 | 0.22 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 12 | 0.24 | 0.1 | 0.23 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 12 | 0.24 | 0.1 | 0.23 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 12 | 0.24 | 0.1 | 0.23 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 12 | 0.24 | 0.1 | 0.23 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 12 | 0.24 | 0.1 | 0.23 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 12 | 0.24 | 0.1 | 0.23 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 12 | 0.21 | 0.07 | 0.2 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 12 | 0.21 | 0.07 | 0.2 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 12 | 0.21 | 0.07 | 0.2 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 12 | 0.21 | 0.07 | 0.2 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 12 | 0.21 | 0.07 | 0.2 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 12 | 0.21 | 0.07 | 0.2 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 12 | 0.21 | 0.06 | 0.22 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 12 | 0.21 | 0.06 | 0.22 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 12 | 0.18 | 0.06 | 0.18 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 12 | 0.18 | 0.06 | 0.18 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD1 | 11 | 2.51 | 1.04 | 2.72 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD2 | 11 | 2.51 | 1.04 | 2.72 |
| (2,637) | 1:770:B:ARG:HH11 | 1:773:B:ASP:OD2 | 11 | 2.51 | 1.04 | 2.72 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 11 | 0.68 | 0.15 | 0.69 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 11 | 0.68 | 0.15 | 0.69 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 11 | 0.68 | 0.15 | 0.69 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 11 | 0.68 | 0.15 | 0.69 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 11 | 0.68 | 0.15 | 0.69 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 11 | 0.68 | 0.15 | 0.69 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 11 | 0.68 | 0.15 | 0.69 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 11 | 0.68 | 0.15 | 0.69 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 11 | 0.68 | 0.15 | 0.69 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 11 | 0.51 | 0.14 | 0.53 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 11 | 0.51 | 0.14 | 0.53 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 11 | 0.51 | 0.14 | 0.53 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 11 | 0.51 | 0.14 | 0.53 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 11 | 0.51 | 0.14 | 0.53 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 11 | 0.51 | 0.14 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 11 | 0.51 | 0.14 | 0.53 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 11 | 0.51 | 0.14 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 11 | 0.51 | 0.14 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 11 | 0.51 | 0.14 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 11 | 0.51 | 0.14 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 11 | 0.51 | 0.14 | 0.53 |
| (2,758) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH11 | 11 | 0.47 | 0.27 | 0.38 |
| (2,758) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH12 | 11 | 0.47 | 0.27 | 0.38 |
| (2,758) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH11 | 11 | 0.47 | 0.27 | 0.38 |
| (2,758) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH12 | 11 | 0.47 | 0.27 | 0.38 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH11 | 11 | 0.47 | 0.27 | 0.38 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH12 | 11 | 0.47 | 0.27 | 0.38 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH21 | 11 | 0.47 | 0.27 | 0.38 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH22 | 11 | 0.47 | 0.27 | 0.38 |
| (2,758) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH21 | 11 | 0.47 | 0.27 | 0.38 |
| (2,758) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH22 | 11 | 0.47 | 0.27 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH11 | 11 | 0.47 | 0.27 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH12 | 11 | 0.47 | 0.27 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH11 | 11 | 0.47 | 0.27 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH12 | 11 | 0.47 | 0.27 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH11 | 11 | 0.47 | 0.27 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH12 | 11 | 0.47 | 0.27 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH21 | 11 | 0.47 | 0.27 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH22 | 11 | 0.47 | 0.27 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH21 | 11 | 0.47 | 0.27 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH22 | 11 | 0.47 | 0.27 | 0.38 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 11 | 0.34 | 0.13 | 0.3 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 11 | 0.34 | 0.13 | 0.3 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 11 | 0.3 | 0.1 | 0.31 |
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 11 | 0.3 | 0.1 | 0.31 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 11 | 0.3 | 0.1 | 0.31 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 11 | 0.3 | 0.1 | 0.31 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 11 | 0.3 | 0.1 | 0.31 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 11 | 0.3 | 0.1 | 0.31 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 11 | 0.28 | 0.13 | 0.23 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 11 | 0.28 | 0.13 | 0.23 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 11 | 0.21 | 0.06 | 0.21 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 11 | 0.21 | 0.06 | 0.21 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 11 | 0.21 | 0.07 | 0.2 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 11 | 0.21 | 0.07 | 0.2 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 11 | 0.18 | 0.04 | 0.19 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 11 | 0.18 | 0.04 | 0.19 |
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 11 | 0.18 | 0.04 | 0.19 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,815) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 10 | 0.52 | 0.17 | 0.54 |
| (2,1240) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 10 | 0.52 | 0.17 | 0.54 |
| (2,764) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 10 | 0.49 | 0.06 | 0.5 |
| (2,764) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 10 | 0.49 | 0.06 | 0.5 |
| (2,764) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 10 | 0.49 | 0.06 | 0.5 |
| (2,1189) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 10 | 0.49 | 0.06 | 0.5 |
| (2,1189) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 10 | 0.49 | 0.06 | 0.5 |
| (2,1189) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 10 | 0.49 | 0.06 | 0.5 |
| (2,355) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HA | 10 | 0.33 | 0.1 | 0.34 |
| (2,355) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HA | 10 | 0.33 | 0.1 | 0.34 |
| (2,355) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HA | 10 | 0.33 | 0.1 | 0.34 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD2 | 10 | 0.31 | 0.22 | 0.22 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD3 | 10 | 0.31 | 0.22 | 0.22 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB2 | 10 | 0.27 | 0.08 | 0.31 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB3 | 10 | 0.27 | 0.08 | 0.31 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB2 | 10 | 0.27 | 0.08 | 0.31 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB3 | 10 | 0.27 | 0.08 | 0.31 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB2 | 10 | 0.27 | 0.08 | 0.31 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB3 | 10 | 0.27 | 0.08 | 0.31 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB2 | 10 | 0.27 | 0.15 | 0.22 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB3 | 10 | 0.27 | 0.15 | 0.22 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB2 | 10 | 0.27 | 0.15 | 0.22 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB3 | 10 | 0.27 | 0.15 | 0.22 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB2 | 10 | 0.27 | 0.15 | 0.22 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB3 | 10 | 0.27 | 0.15 | 0.22 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 10 | 0.25 | 0.07 | 0.26 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 10 | 0.25 | 0.07 | 0.26 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 10 | 0.25 | 0.07 | 0.26 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 10 | 0.25 | 0.07 | 0.26 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE1 | 10 | 0.24 | 0.14 | 0.19 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE2 | 10 | 0.24 | 0.14 | 0.19 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE1 | 10 | 0.24 | 0.14 | 0.19 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE2 | 10 | 0.24 | 0.14 | 0.19 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE1 | 10 | 0.24 | 0.14 | 0.19 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE2 | 10 | 0.24 | 0.14 | 0.19 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 10 | 0.23 | 0.08 | 0.21 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 10 | 0.23 | 0.08 | 0.21 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 10 | 0.23 | 0.08 | 0.21 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 10 | 0.23 | 0.08 | 0.21 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB2 | 10 | 0.21 | 0.09 | 0.2 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB3 | 10 | 0.21 | 0.09 | 0.2 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB2 | 10 | 0.21 | 0.09 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB3 | 10 | 0.21 | 0.09 | 0.2 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB2 | 10 | 0.21 | 0.09 | 0.2 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB3 | 10 | 0.21 | 0.09 | 0.2 |
| (2,1040) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 10 | 0.21 | 0.07 | 0.25 |
| (2,1465) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 10 | 0.21 | 0.07 | 0.25 |
| (2,522) | 1:764:B:SER:H | 1:761:B:ARG:HA | 10 | 0.19 | 0.05 | 0.18 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 10 | 0.19 | 0.04 | 0.18 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 10 | 0.19 | 0.04 | 0.18 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 10 | 0.19 | 0.04 | 0.18 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 10 | 0.19 | 0.04 | 0.18 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 10 | 0.19 | 0.04 | 0.18 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 10 | 0.19 | 0.04 | 0.18 |
| (1,19) | 1:799:B:LEU:O | 1:803:B:TRP:H | 10 | 0.18 | 0.04 | 0.18 |
| (1,105) | 1:799:B:LEU:O | 1:803:B:TRP:H | 10 | 0.18 | 0.04 | 0.18 |
| (1,191) | 1:799:B:LEU:O | 1:803:B:TRP:H | 10 | 0.18 | 0.04 | 0.18 |
| (2,37) | 1:692:B:LEU:HD21 | 1:694:A:GLY:H | 10 | 0.14 | 0.03 | 0.13 |
| (2,37) | 1:692:B:LEU:HD22 | 1:694:A:GLY:H | 10 | 0.14 | 0.03 | 0.13 |
| (2,37) | 1:692:B:LEU:HD23 | 1:694:A:GLY:H | 10 | 0.14 | 0.03 | 0.13 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD1 | 9 | 0.32 | 0.07 | 0.33 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD2 | 9 | 0.32 | 0.07 | 0.33 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 9 | 0.28 | 0.16 | 0.2 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 9 | 0.28 | 0.16 | 0.2 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 9 | 0.28 | 0.16 | 0.2 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 9 | 0.28 | 0.16 | 0.2 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 9 | 0.28 | 0.16 | 0.2 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 9 | 0.28 | 0.16 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 9 | 0.28 | 0.16 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 9 | 0.28 | 0.16 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 9 | 0.28 | 0.16 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 9 | 0.28 | 0.16 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 9 | 0.28 | 0.16 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 9 | 0.28 | 0.16 | 0.2 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD11 | 9 | 0.28 | 0.17 | 0.26 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD12 | 9 | 0.28 | 0.17 | 0.26 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD13 | 9 | 0.28 | 0.17 | 0.26 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD21 | 9 | 0.28 | 0.17 | 0.26 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD22 | 9 | 0.28 | 0.17 | 0.26 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD23 | 9 | 0.28 | 0.17 | 0.26 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB2 | 9 | 0.24 | 0.11 | 0.2 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB3 | 9 | 0.24 | 0.11 | 0.2 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB2 | 9 | 0.22 | 0.06 | 0.21 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB3 | 9 | 0.22 | 0.06 | 0.21 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|-----|--------|--------|-----------|----------|-----------|------------|
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB2 | 9 | 0.22 | 0.06 | 0.21 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB3 | 9 | 0.22 | 0.06 | 0.21 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB2 | 9 | 0.22 | 0.06 | 0.21 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB3 | 9 | 0.22 | 0.06 | 0.21 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 9 | 0.21 | 0.06 | 0.22 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 9 | 0.21 | 0.06 | 0.22 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 9 | 0.21 | 0.06 | 0.22 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 9 | 0.21 | 0.06 | 0.22 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB2 | 9 | 0.2 | 0.13 | 0.14 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB3 | 9 | 0.2 | 0.13 | 0.14 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 9 | 0.19 | 0.02 | 0.19 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 9 | 0.19 | 0.02 | 0.19 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 9 | 0.19 | 0.02 | 0.19 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 9 | 0.19 | 0.02 | 0.19 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD11 | 9 | 0.19 | 0.13 | 0.13 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD12 | 9 | 0.19 | 0.13 | 0.13 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD13 | 9 | 0.19 | 0.13 | 0.13 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD21 | 9 | 0.19 | 0.13 | 0.13 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD22 | 9 | 0.19 | 0.13 | 0.13 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD23 | 9 | 0.19 | 0.13 | 0.13 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD2 | 9 | 0.19 | 0.07 | 0.16 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD3 | 9 | 0.19 | 0.07 | 0.16 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD2 | 9 | 0.19 | 0.07 | 0.16 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD3 | 9 | 0.19 | 0.07 | 0.16 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD2 | 9 | 0.19 | 0.07 | 0.16 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD3 | 9 | 0.19 | 0.07 | 0.16 |
| (2,781) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 9 | 0.17 | 0.05 | 0.17 |
| (2,781) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 9 | 0.17 | 0.05 | 0.17 |
| (2,781) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 9 | 0.17 | 0.05 | 0.17 |
| (2,1206) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 9 | 0.17 | 0.05 | 0.17 |
| (2,1206) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 9 | 0.17 | 0.05 | 0.17 |
| (2,1206) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 9 | 0.17 | 0.05 | 0.17 |
| (2,444) | 1:710:B:GLN:H | 1:710:B:GLN:HB3 | 8 | 0.52 | 0.11 | 0.55 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG12 | 8 | 0.41 | 0.16 | 0.48 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG13 | 8 | 0.41 | 0.16 | 0.48 |
| (2,869) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 8 | 0.39 | 0.15 | 0.44 |
| (2,1294) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 8 | 0.39 | 0.15 | 0.44 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB1 | 8 | 0.36 | 0.14 | 0.35 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB2 | 8 | 0.36 | 0.14 | 0.35 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB3 | 8 | 0.36 | 0.14 | 0.35 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB1 | 8 | 0.36 | 0.14 | 0.35 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB2 | 8 | 0.36 | 0.14 | 0.35 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB3 | 8 | 0.36 | 0.14 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB1 | 8 | 0.36 | 0.14 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB2 | 8 | 0.36 | 0.14 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB3 | 8 | 0.36 | 0.14 | 0.35 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 8 | 0.29 | 0.08 | 0.28 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 8 | 0.29 | 0.08 | 0.28 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 8 | 0.29 | 0.08 | 0.28 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 8 | 0.29 | 0.08 | 0.28 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH21 | 8 | 0.25 | 0.14 | 0.2 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH22 | 8 | 0.25 | 0.14 | 0.2 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH21 | 8 | 0.25 | 0.14 | 0.2 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH22 | 8 | 0.25 | 0.14 | 0.2 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH21 | 8 | 0.25 | 0.14 | 0.2 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH22 | 8 | 0.25 | 0.14 | 0.2 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD11 | 8 | 0.25 | 0.07 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD12 | 8 | 0.25 | 0.07 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD13 | 8 | 0.25 | 0.07 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD21 | 8 | 0.25 | 0.07 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD22 | 8 | 0.25 | 0.07 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD23 | 8 | 0.25 | 0.07 | 0.25 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD11 | 8 | 0.25 | 0.08 | 0.26 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD12 | 8 | 0.25 | 0.08 | 0.26 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD13 | 8 | 0.25 | 0.08 | 0.26 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD11 | 8 | 0.24 | 0.09 | 0.21 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD12 | 8 | 0.24 | 0.09 | 0.21 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD13 | 8 | 0.24 | 0.09 | 0.21 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 8 | 0.23 | 0.07 | 0.22 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 8 | 0.23 | 0.07 | 0.22 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 8 | 0.23 | 0.07 | 0.22 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 8 | 0.23 | 0.07 | 0.22 |
| (2,897) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 8 | 0.23 | 0.09 | 0.24 |
| (2,897) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 8 | 0.23 | 0.09 | 0.24 |
| (2,897) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 8 | 0.23 | 0.09 | 0.24 |
| (2,1322) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 8 | 0.23 | 0.09 | 0.24 |
| (2,1322) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 8 | 0.23 | 0.09 | 0.24 |
| (2,1322) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 8 | 0.23 | 0.09 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 8 | 0.22 | 0.03 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 8 | 0.22 | 0.03 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 8 | 0.22 | 0.03 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 8 | 0.22 | 0.03 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 8 | 0.22 | 0.03 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 8 | 0.22 | 0.03 | 0.24 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD2 | 8 | 0.22 | 0.09 | 0.18 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD3 | 8 | 0.22 | 0.09 | 0.18 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD1 | 8 | 0.22 | 0.05 | 0.22 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD2 | 8 | 0.22 | 0.05 | 0.22 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD1 | 8 | 0.22 | 0.05 | 0.22 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD2 | 8 | 0.22 | 0.05 | 0.22 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD1 | 8 | 0.22 | 0.05 | 0.22 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD2 | 8 | 0.22 | 0.05 | 0.22 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 8 | 0.21 | 0.12 | 0.16 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 8 | 0.21 | 0.12 | 0.16 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 8 | 0.21 | 0.12 | 0.16 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 8 | 0.21 | 0.12 | 0.16 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 8 | 0.21 | 0.12 | 0.16 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 8 | 0.21 | 0.12 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 8 | 0.21 | 0.12 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 8 | 0.21 | 0.12 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 8 | 0.21 | 0.12 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 8 | 0.21 | 0.12 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 8 | 0.21 | 0.12 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 8 | 0.21 | 0.12 | 0.16 |
| (2,545) | 1:775:B:LEU:HD11 | 1:772:B:ARG:HA | 8 | 0.2 | 0.07 | 0.18 |
| (2,545) | 1:775:B:LEU:HD12 | 1:772:B:ARG:HA | 8 | 0.2 | 0.07 | 0.18 |
| (2,545) | 1:775:B:LEU:HD13 | 1:772:B:ARG:HA | 8 | 0.2 | 0.07 | 0.18 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB2 | 8 | 0.18 | 0.03 | 0.18 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB3 | 8 | 0.18 | 0.03 | 0.18 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD21 | 8 | 0.17 | 0.04 | 0.18 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD22 | 8 | 0.17 | 0.04 | 0.18 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD23 | 8 | 0.17 | 0.04 | 0.18 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 8 | 0.17 | 0.08 | 0.14 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 8 | 0.17 | 0.08 | 0.14 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 8 | 0.17 | 0.08 | 0.14 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 8 | 0.17 | 0.08 | 0.14 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 8 | 0.17 | 0.08 | 0.14 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 8 | 0.17 | 0.08 | 0.14 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD1 | 8 | 0.16 | 0.03 | 0.16 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD2 | 8 | 0.16 | 0.03 | 0.16 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD1 | 8 | 0.16 | 0.03 | 0.16 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD2 | 8 | 0.16 | 0.03 | 0.16 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD1 | 8 | 0.16 | 0.03 | 0.16 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD2 | 8 | 0.16 | 0.03 | 0.16 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 8 | 0.16 | 0.06 | 0.14 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 8 | 0.16 | 0.06 | 0.14 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|-----|--------|--------|-----------|----------|-----------|------------|
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 8 | 0.16 | 0.06 | 0.14 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 8 | 0.16 | 0.06 | 0.14 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 8 | 0.16 | 0.06 | 0.14 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 8 | 0.16 | 0.06 | 0.14 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 8 | 0.16 | 0.06 | 0.14 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 8 | 0.16 | 0.06 | 0.14 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 8 | 0.16 | 0.06 | 0.14 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 8 | 0.16 | 0.06 | 0.14 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 8 | 0.16 | 0.06 | 0.14 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 8 | 0.16 | 0.06 | 0.14 |
| (2,245) | 1:667:B:ALA:H | 1:666:B:TRP:HD1 | 8 | 0.15 | 0.04 | 0.15 |
| (1,20) | 1:799:B:LEU:O | 1:803:B:TRP:N | 8 | 0.15 | 0.04 | 0.14 |
| (1,106) | 1:799:B:LEU:O | 1:803:B:TRP:N | 8 | 0.15 | 0.04 | 0.14 |
| (1,192) | 1:799:B:LEU:O | 1:803:B:TRP:N | 8 | 0.15 | 0.04 | 0.14 |
| (1,10) | 1:794:B:LYS:O | 1:798:B:ASN:N | 8 | 0.14 | 0.04 | 0.13 |
| (1,96) | 1:794:B:LYS:O | 1:798:B:ASN:N | 8 | 0.14 | 0.04 | 0.13 |
| (1,182) | 1:794:B:LYS:O | 1:798:B:ASN:N | 8 | 0.14 | 0.04 | 0.13 |
| (2,778) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 7 | 0.81 | 0.18 | 0.88 |
| (2,778) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 7 | 0.81 | 0.18 | 0.88 |
| (2,778) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 7 | 0.81 | 0.18 | 0.88 |
| (2,1203) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 7 | 0.81 | 0.18 | 0.88 |
| (2,1203) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 7 | 0.81 | 0.18 | 0.88 |
| (2,1203) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 7 | 0.81 | 0.18 | 0.88 |
| (2,333) | 1:692:B:LEU:HD11 | 1:696:B:ARG:HH11 | 7 | 0.34 | 0.12 | 0.28 |
| (2,333) | 1:692:B:LEU:HD11 | 1:696:B:ARG:HH12 | 7 | 0.34 | 0.12 | 0.28 |
| (2,333) | 1:692:B:LEU:HD13 | 1:696:B:ARG:HH11 | 7 | 0.34 | 0.12 | 0.28 |
| (2,333) | 1:692:B:LEU:HD13 | 1:696:B:ARG:HH12 | 7 | 0.34 | 0.12 | 0.28 |
| (2,333) | 1:692:B:LEU:HD12 | 1:696:B:ARG:HH11 | 7 | 0.34 | 0.12 | 0.28 |
| (2,333) | 1:692:B:LEU:HD12 | 1:696:B:ARG:HH12 | 7 | 0.34 | 0.12 | 0.28 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD2 | 7 | 0.33 | 0.12 | 0.32 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD3 | 7 | 0.33 | 0.12 | 0.32 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD2 | 7 | 0.33 | 0.12 | 0.32 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD3 | 7 | 0.33 | 0.12 | 0.32 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD2 | 7 | 0.33 | 0.12 | 0.32 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD3 | 7 | 0.33 | 0.12 | 0.32 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD2 | 7 | 0.32 | 0.16 | 0.29 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD3 | 7 | 0.32 | 0.16 | 0.29 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 7 | 0.32 | 0.17 | 0.27 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 7 | 0.32 | 0.17 | 0.27 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 7 | 0.32 | 0.17 | 0.27 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 7 | 0.32 | 0.17 | 0.27 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 7 | 0.32 | 0.17 | 0.27 |

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| Key | Atom-1 | Atom-2 | Models¹ | Mean (Å) | SD¹ (Å) | Median (Å) |
|-----|--------|--------|---------|----------|---------|------------|
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 7 | 0.32 | 0.17 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 7 | 0.32 | 0.17 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 7 | 0.32 | 0.17 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 7 | 0.32 | 0.17 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 7 | 0.32 | 0.17 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 7 | 0.32 | 0.17 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 7 | 0.32 | 0.17 | 0.27 |
| (2,390) | 1:704:B:LEU:H | 1:704:B:LEU:HB3 | 7 | 0.31 | 0.21 | 0.23 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 7 | 0.27 | 0.1 | 0.3 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 7 | 0.27 | 0.1 | 0.3 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 7 | 0.27 | 0.1 | 0.3 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 7 | 0.27 | 0.1 | 0.3 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 7 | 0.27 | 0.1 | 0.3 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 7 | 0.27 | 0.1 | 0.3 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 7 | 0.27 | 0.1 | 0.3 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 7 | 0.27 | 0.1 | 0.3 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 7 | 0.27 | 0.1 | 0.3 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 7 | 0.27 | 0.1 | 0.3 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 7 | 0.27 | 0.1 | 0.3 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 7 | 0.27 | 0.1 | 0.3 |
| (2,473) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD22 | 7 | 0.22 | 0.11 | 0.16 |
| (2,473) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD22 | 7 | 0.22 | 0.11 | 0.16 |
| (2,473) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD22 | 7 | 0.22 | 0.11 | 0.16 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 7 | 0.22 | 0.06 | 0.22 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 7 | 0.22 | 0.06 | 0.22 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 7 | 0.22 | 0.06 | 0.22 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 7 | 0.22 | 0.06 | 0.22 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 7 | 0.22 | 0.06 | 0.22 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 7 | 0.22 | 0.06 | 0.22 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB2 | 7 | 0.21 | 0.09 | 0.18 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB3 | 7 | 0.21 | 0.09 | 0.18 |
| (2,1018) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 7 | 0.2 | 0.13 | 0.16 |
| (2,1443) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 7 | 0.2 | 0.13 | 0.16 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD11 | 7 | 0.2 | 0.04 | 0.21 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD12 | 7 | 0.2 | 0.04 | 0.21 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD13 | 7 | 0.2 | 0.04 | 0.21 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD11 | 7 | 0.2 | 0.04 | 0.21 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD12 | 7 | 0.2 | 0.04 | 0.21 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD13 | 7 | 0.2 | 0.04 | 0.21 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD11 | 7 | 0.2 | 0.04 | 0.21 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD12 | 7 | 0.2 | 0.04 | 0.21 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD13 | 7 | 0.2 | 0.04 | 0.21 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,177) | 1:803:A:TRP:HE1 | 1:764:B:SER:HG | 7 | 0.17 | 0.04 | 0.17 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 7 | 0.16 | 0.03 | 0.15 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 7 | 0.16 | 0.03 | 0.15 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 7 | 0.16 | 0.03 | 0.15 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 7 | 0.16 | 0.03 | 0.15 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD11 | 7 | 0.16 | 0.03 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD12 | 7 | 0.16 | 0.03 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD13 | 7 | 0.16 | 0.03 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD21 | 7 | 0.16 | 0.03 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD22 | 7 | 0.16 | 0.03 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD23 | 7 | 0.16 | 0.03 | 0.14 |
| (1,5) | 1:792:B:ALA:O | 1:796:B:TRP:H | 7 | 0.15 | 0.06 | 0.12 |
| (1,25) | 1:802:B:TYR:O | 1:806:B:GLU:H | 7 | 0.15 | 0.04 | 0.13 |
| (1,91) | 1:792:B:ALA:O | 1:796:B:TRP:H | 7 | 0.15 | 0.06 | 0.12 |
| (1,111) | 1:802:B:TYR:O | 1:806:B:GLU:H | 7 | 0.15 | 0.04 | 0.13 |
| (1,177) | 1:792:B:ALA:O | 1:796:B:TRP:H | 7 | 0.15 | 0.06 | 0.12 |
| (1,197) | 1:802:B:TYR:O | 1:806:B:GLU:H | 7 | 0.15 | 0.04 | 0.13 |
| (1,75) | 1:837:B:SER:O | 1:841:B:ARG:H | 7 | 0.14 | 0.03 | 0.14 |
| (1,161) | 1:837:B:SER:O | 1:841:B:ARG:H | 7 | 0.14 | 0.03 | 0.14 |
| (1,247) | 1:837:B:SER:O | 1:841:B:ARG:H | 7 | 0.14 | 0.03 | 0.14 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD11 | 7 | 0.14 | 0.04 | 0.13 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD12 | 7 | 0.14 | 0.04 | 0.13 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD13 | 7 | 0.14 | 0.04 | 0.13 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD1 | 7 | 0.14 | 0.04 | 0.13 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD2 | 7 | 0.14 | 0.04 | 0.13 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD1 | 7 | 0.14 | 0.04 | 0.13 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD2 | 7 | 0.14 | 0.04 | 0.13 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD1 | 7 | 0.14 | 0.04 | 0.13 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD2 | 7 | 0.14 | 0.04 | 0.13 |
| (2,821) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 7 | 0.14 | 0.04 | 0.11 |
| (2,1246) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 7 | 0.14 | 0.04 | 0.11 |
| (1,47) | 1:813:B:SER:O | 1:817:B:ALA:H | 7 | 0.13 | 0.03 | 0.12 |
| (1,133) | 1:813:B:SER:O | 1:817:B:ALA:H | 7 | 0.13 | 0.03 | 0.12 |
| (1,219) | 1:813:B:SER:O | 1:817:B:ALA:H | 7 | 0.13 | 0.03 | 0.12 |
| (1,61) | 1:830:B:ILE:O | 1:834:B:GLN:H | 7 | 0.13 | 0.02 | 0.12 |
| (1,147) | 1:830:B:ILE:O | 1:834:B:GLN:H | 7 | 0.13 | 0.02 | 0.12 |
| (1,233) | 1:830:B:ILE:O | 1:834:B:GLN:H | 7 | 0.13 | 0.02 | 0.12 |
| (2,683) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |
| (2,683) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |
| (2,683) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |
| (2,683) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |
| (2,683) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,683) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 7 | 0.13 | 0.01 | 0.13 |
| (2,576) | 1:781:B:ILE:H | 1:780:B:ARG:HA | 7 | 0.12 | 0.01 | 0.11 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 6 | 0.34 | 0.3 | 0.22 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 6 | 0.34 | 0.3 | 0.22 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 6 | 0.34 | 0.3 | 0.22 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 6 | 0.34 | 0.3 | 0.22 |
| (2,81) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HA | 6 | 0.32 | 0.11 | 0.36 |
| (2,81) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HA | 6 | 0.32 | 0.11 | 0.36 |
| (2,81) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HA | 6 | 0.32 | 0.11 | 0.36 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 6 | 0.3 | 0.15 | 0.3 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 6 | 0.3 | 0.15 | 0.3 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 6 | 0.3 | 0.15 | 0.3 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 6 | 0.3 | 0.15 | 0.3 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 6 | 0.3 | 0.15 | 0.3 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 6 | 0.3 | 0.15 | 0.3 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 6 | 0.3 | 0.15 | 0.3 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 6 | 0.3 | 0.15 | 0.3 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 6 | 0.3 | 0.15 | 0.3 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 6 | 0.3 | 0.15 | 0.3 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 6 | 0.3 | 0.15 | 0.3 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 6 | 0.3 | 0.15 | 0.3 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB2 | 6 | 0.27 | 0.14 | 0.24 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB3 | 6 | 0.27 | 0.14 | 0.24 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB2 | 6 | 0.27 | 0.14 | 0.24 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB3 | 6 | 0.27 | 0.14 | 0.24 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB2 | 6 | 0.27 | 0.14 | 0.24 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB3 | 6 | 0.27 | 0.14 | 0.24 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 6 | 0.26 | 0.14 | 0.22 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 6 | 0.26 | 0.14 | 0.22 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 6 | 0.26 | 0.14 | 0.22 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 6 | 0.26 | 0.14 | 0.22 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 6 | 0.26 | 0.14 | 0.22 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 6 | 0.26 | 0.14 | 0.22 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 6 | 0.26 | 0.14 | 0.22 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 6 | 0.26 | 0.14 | 0.22 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 6 | 0.26 | 0.14 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 6 | 0.26 | 0.14 | 0.22 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 6 | 0.26 | 0.14 | 0.22 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 6 | 0.26 | 0.14 | 0.22 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG11 | 6 | 0.26 | 0.09 | 0.28 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG12 | 6 | 0.26 | 0.09 | 0.28 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG13 | 6 | 0.26 | 0.09 | 0.28 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG21 | 6 | 0.26 | 0.09 | 0.28 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG22 | 6 | 0.26 | 0.09 | 0.28 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG23 | 6 | 0.26 | 0.09 | 0.28 |
| (2,296) | 1:682:B:ILE:HD11 | 1:681:B:TYR:H | 6 | 0.23 | 0.11 | 0.21 |
| (2,296) | 1:682:B:ILE:HD12 | 1:681:B:TYR:H | 6 | 0.23 | 0.11 | 0.21 |
| (2,296) | 1:682:B:ILE:HD13 | 1:681:B:TYR:H | 6 | 0.23 | 0.11 | 0.21 |
| (2,575) | 1:781:B:ILE:H | 1:778:B:VAL:HA | 6 | 0.23 | 0.06 | 0.25 |
| (2,405) | 1:705:B:VAL:HG21 | 1:702:B:LEU:HG | 6 | 0.22 | 0.16 | 0.16 |
| (2,405) | 1:705:B:VAL:HG22 | 1:702:B:LEU:HG | 6 | 0.22 | 0.16 | 0.16 |
| (2,405) | 1:705:B:VAL:HG23 | 1:702:B:LEU:HG | 6 | 0.22 | 0.16 | 0.16 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 6 | 0.22 | 0.09 | 0.16 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 6 | 0.22 | 0.09 | 0.16 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 6 | 0.22 | 0.09 | 0.16 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 6 | 0.22 | 0.09 | 0.16 |
| (2,940) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 6 | 0.21 | 0.06 | 0.24 |
| (2,940) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 6 | 0.21 | 0.06 | 0.24 |
| (2,940) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 6 | 0.21 | 0.06 | 0.24 |
| (2,1365) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 6 | 0.21 | 0.06 | 0.24 |
| (2,1365) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 6 | 0.21 | 0.06 | 0.24 |
| (2,1365) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 6 | 0.21 | 0.06 | 0.24 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG12 | 6 | 0.21 | 0.07 | 0.18 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG13 | 6 | 0.21 | 0.07 | 0.18 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD2 | 6 | 0.2 | 0.07 | 0.2 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD3 | 6 | 0.2 | 0.07 | 0.2 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD2 | 6 | 0.2 | 0.07 | 0.2 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD3 | 6 | 0.2 | 0.07 | 0.2 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD2 | 6 | 0.2 | 0.07 | 0.2 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD3 | 6 | 0.2 | 0.07 | 0.2 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 6 | 0.2 | 0.08 | 0.18 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 6 | 0.2 | 0.08 | 0.18 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 6 | 0.2 | 0.08 | 0.18 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 6 | 0.2 | 0.08 | 0.18 |
| (2,1000) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 6 | 0.2 | 0.04 | 0.2 |
| (2,1425) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 6 | 0.2 | 0.04 | 0.2 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 6 | 0.19 | 0.08 | 0.16 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 6 | 0.19 | 0.08 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 6 | 0.19 | 0.08 | 0.16 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 6 | 0.19 | 0.08 | 0.16 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 6 | 0.19 | 0.08 | 0.16 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 6 | 0.19 | 0.08 | 0.16 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 6 | 0.19 | 0.08 | 0.16 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 6 | 0.19 | 0.08 | 0.16 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 6 | 0.19 | 0.08 | 0.16 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 6 | 0.19 | 0.08 | 0.16 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 6 | 0.19 | 0.08 | 0.16 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 6 | 0.19 | 0.08 | 0.16 |
| (2,1032) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 6 | 0.19 | 0.04 | 0.18 |
| (2,1032) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 6 | 0.19 | 0.04 | 0.18 |
| (2,1032) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 6 | 0.19 | 0.04 | 0.18 |
| (2,1457) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 6 | 0.19 | 0.04 | 0.18 |
| (2,1457) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 6 | 0.19 | 0.04 | 0.18 |
| (2,1457) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 6 | 0.19 | 0.04 | 0.18 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB2 | 6 | 0.19 | 0.06 | 0.17 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB3 | 6 | 0.19 | 0.06 | 0.17 |
| (2,219) | 1:663:B:LEU:H | 1:664:B:ASP:H | 6 | 0.18 | 0.05 | 0.18 |
| (2,225) | 1:664:B:ASP:H | 1:663:B:LEU:H | 6 | 0.18 | 0.05 | 0.18 |
| (2,989) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 6 | 0.18 | 0.05 | 0.19 |
| (2,989) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 6 | 0.18 | 0.05 | 0.19 |
| (2,989) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 6 | 0.18 | 0.05 | 0.19 |
| (2,1414) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 6 | 0.18 | 0.05 | 0.19 |
| (2,1414) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 6 | 0.18 | 0.05 | 0.19 |
| (2,1414) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 6 | 0.18 | 0.05 | 0.19 |
| (2,653) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 6 | 0.18 | 0.06 | 0.16 |
| (2,1078) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 6 | 0.18 | 0.06 | 0.16 |
| (2,601) | 1:785:B:LEU:H | 1:782:B:VAL:HA | 6 | 0.18 | 0.05 | 0.18 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 6 | 0.18 | 0.03 | 0.18 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 6 | 0.18 | 0.03 | 0.18 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 6 | 0.18 | 0.03 | 0.18 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 6 | 0.18 | 0.03 | 0.18 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 6 | 0.18 | 0.03 | 0.18 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 6 | 0.18 | 0.03 | 0.18 |
| (2,701) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 6 | 0.17 | 0.05 | 0.16 |
| (2,701) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 6 | 0.17 | 0.05 | 0.16 |
| (2,701) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 6 | 0.17 | 0.05 | 0.16 |
| (2,1126) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 6 | 0.17 | 0.05 | 0.16 |
| (2,1126) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 6 | 0.17 | 0.05 | 0.16 |
| (2,1126) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 6 | 0.17 | 0.05 | 0.16 |
| (2,13) | 1:666:B:TRP:HE1 | 1:666:A:TRP:HD1 | 6 | 0.16 | 0.03 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 6 | 0.16 | 0.04 | 0.16 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 6 | 0.16 | 0.04 | 0.16 |
| (2,259) | 1:670:B:TRP:H | 1:667:B:ALA:HA | 6 | 0.15 | 0.02 | 0.15 |
| (2,904) | 1:748:A:LEU:H | 1:745:A:SER:HA | 6 | 0.15 | 0.04 | 0.14 |
| (2,1329) | 1:748:A:LEU:H | 1:745:A:SER:HA | 6 | 0.15 | 0.04 | 0.14 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG21 | 6 | 0.13 | 0.02 | 0.12 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG22 | 6 | 0.13 | 0.02 | 0.12 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG23 | 6 | 0.13 | 0.02 | 0.12 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG21 | 6 | 0.13 | 0.02 | 0.12 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG22 | 6 | 0.13 | 0.02 | 0.12 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG23 | 6 | 0.13 | 0.02 | 0.12 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG21 | 6 | 0.13 | 0.02 | 0.12 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG22 | 6 | 0.13 | 0.02 | 0.12 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG23 | 6 | 0.13 | 0.02 | 0.12 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD11 | 5 | 0.32 | 0.08 | 0.34 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD12 | 5 | 0.32 | 0.08 | 0.34 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD13 | 5 | 0.32 | 0.08 | 0.34 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD21 | 5 | 0.32 | 0.08 | 0.34 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD22 | 5 | 0.32 | 0.08 | 0.34 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD23 | 5 | 0.32 | 0.08 | 0.34 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,943) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 5 | 0.32 | 0.08 | 0.32 |
| (2,943) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 5 | 0.32 | 0.08 | 0.32 |
| (2,943) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 5 | 0.32 | 0.08 | 0.32 |
| (2,1368) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 5 | 0.32 | 0.08 | 0.32 |
| (2,1368) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 5 | 0.32 | 0.08 | 0.32 |
| (2,1368) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 5 | 0.32 | 0.08 | 0.32 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 5 | 0.32 | 0.13 | 0.37 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 5 | 0.32 | 0.13 | 0.37 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 5 | 0.32 | 0.13 | 0.37 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 5 | 0.32 | 0.13 | 0.37 |
| (2,114) | 1:781:A:ILE:HD11 | 1:743:B:ASP:HA | 5 | 0.31 | 0.2 | 0.21 |
| (2,114) | 1:781:A:ILE:HD12 | 1:743:B:ASP:HA | 5 | 0.31 | 0.2 | 0.21 |
| (2,114) | 1:781:A:ILE:HD13 | 1:743:B:ASP:HA | 5 | 0.31 | 0.2 | 0.21 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD11 | 5 | 0.31 | 0.22 | 0.2 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD12 | 5 | 0.31 | 0.22 | 0.2 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD13 | 5 | 0.31 | 0.22 | 0.2 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 5 | 0.31 | 0.12 | 0.34 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 5 | 0.31 | 0.12 | 0.34 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 5 | 0.31 | 0.12 | 0.34 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 5 | 0.31 | 0.12 | 0.34 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 5 | 0.31 | 0.12 | 0.34 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 5 | 0.31 | 0.12 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 5 | 0.31 | 0.12 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 5 | 0.31 | 0.12 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 5 | 0.31 | 0.12 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 5 | 0.31 | 0.12 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 5 | 0.31 | 0.12 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 5 | 0.31 | 0.12 | 0.34 |
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD2 | 5 | 0.3 | 0.25 | 0.2 |
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD3 | 5 | 0.3 | 0.25 | 0.2 |
| (2,228) | 1:665:B:LYS:H | 1:662:B:GLU:HA | 5 | 0.3 | 0.15 | 0.35 |
| (2,234) | 1:666:B:TRP:H | 1:663:B:LEU:HA | 5 | 0.27 | 0.09 | 0.27 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 5 | 0.26 | 0.1 | 0.32 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 5 | 0.26 | 0.1 | 0.32 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 5 | 0.26 | 0.1 | 0.32 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 5 | 0.26 | 0.1 | 0.32 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 5 | 0.26 | 0.1 | 0.32 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 5 | 0.26 | 0.1 | 0.32 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 5 | 0.26 | 0.1 | 0.32 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 5 | 0.26 | 0.1 | 0.32 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 5 | 0.26 | 0.1 | 0.32 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 5 | 0.26 | 0.1 | 0.32 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 5 | 0.26 | 0.1 | 0.32 |
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 5 | 0.26 | 0.1 | 0.32 |
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB2 | 5 | 0.24 | 0.13 | 0.15 |
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB3 | 5 | 0.24 | 0.13 | 0.15 |
| (2,1026) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 5 | 0.21 | 0.07 | 0.18 |
| (2,1451) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 5 | 0.21 | 0.07 | 0.18 |
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 5 | 0.21 | 0.05 | 0.21 |
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 5 | 0.21 | 0.05 | 0.21 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 5 | 0.21 | 0.05 | 0.21 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 5 | 0.21 | 0.05 | 0.21 |
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 5 | 0.21 | 0.05 | 0.21 |
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 5 | 0.21 | 0.05 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 5 | 0.21 | 0.05 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 5 | 0.21 | 0.05 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 5 | 0.21 | 0.05 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 5 | 0.21 | 0.05 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 5 | 0.21 | 0.05 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 5 | 0.21 | 0.05 | 0.21 |
| (2,711) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 5 | 0.2 | 0.09 | 0.19 |
| (2,1136) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 5 | 0.2 | 0.09 | 0.19 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD11 | 5 | 0.2 | 0.09 | 0.2 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD12 | 5 | 0.2 | 0.09 | 0.2 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD13 | 5 | 0.2 | 0.09 | 0.2 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD21 | 5 | 0.2 | 0.09 | 0.2 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD22 | 5 | 0.2 | 0.09 | 0.2 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD23 | 5 | 0.2 | 0.09 | 0.2 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 5 | 0.2 | 0.15 | 0.12 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 5 | 0.2 | 0.15 | 0.12 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 5 | 0.2 | 0.15 | 0.12 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 5 | 0.2 | 0.15 | 0.12 |
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 5 | 0.2 | 0.15 | 0.12 |
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 5 | 0.2 | 0.15 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 5 | 0.2 | 0.15 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 5 | 0.2 | 0.15 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 5 | 0.2 | 0.15 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 5 | 0.2 | 0.15 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 5 | 0.2 | 0.15 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 5 | 0.2 | 0.15 | 0.12 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD11 | 5 | 0.19 | 0.08 | 0.17 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD12 | 5 | 0.19 | 0.08 | 0.17 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD13 | 5 | 0.19 | 0.08 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 5 | 0.19 | 0.08 | 0.17 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 5 | 0.19 | 0.08 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 5 | 0.19 | 0.08 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 5 | 0.19 | 0.08 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 5 | 0.19 | 0.08 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 5 | 0.19 | 0.08 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 5 | 0.19 | 0.08 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 5 | 0.19 | 0.08 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 5 | 0.19 | 0.08 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 5 | 0.19 | 0.08 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 5 | 0.19 | 0.08 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 5 | 0.19 | 0.08 | 0.17 |
| (2,718) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 5 | 0.19 | 0.07 | 0.16 |
| (2,718) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 5 | 0.19 | 0.07 | 0.16 |
| (2,718) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 5 | 0.19 | 0.07 | 0.16 |
| (2,1143) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 5 | 0.19 | 0.07 | 0.16 |
| (2,1143) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 5 | 0.19 | 0.07 | 0.16 |
| (2,1143) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 5 | 0.19 | 0.07 | 0.16 |
| (2,126) | 1:785:A:LEU:HD21 | 1:749:B:VAL:HB | 5 | 0.18 | 0.05 | 0.2 |
| (2,126) | 1:785:A:LEU:HD22 | 1:749:B:VAL:HB | 5 | 0.18 | 0.05 | 0.2 |
| (2,126) | 1:785:A:LEU:HD23 | 1:749:B:VAL:HB | 5 | 0.18 | 0.05 | 0.2 |
| (2,780) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 5 | 0.18 | 0.08 | 0.13 |
| (2,780) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 5 | 0.18 | 0.08 | 0.13 |
| (2,780) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 5 | 0.18 | 0.08 | 0.13 |
| (2,1205) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 5 | 0.18 | 0.08 | 0.13 |
| (2,1205) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 5 | 0.18 | 0.08 | 0.13 |
| (2,1205) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 5 | 0.18 | 0.08 | 0.13 |
| (2,479) | 1:748:B:LEU:H | 1:745:B:SER:HA | 5 | 0.18 | 0.06 | 0.16 |
| (2,272) | 1:674:B:ASP:H | 1:677:B:ASN:H | 5 | 0.18 | 0.04 | 0.18 |
| (2,502) | 1:755:B:LEU:H | 1:752:B:SER:HA | 5 | 0.18 | 0.02 | 0.19 |
| (2,515) | 1:760:B:LEU:HD11 | 1:757:B:TRP:HA | 5 | 0.17 | 0.03 | 0.16 |
| (2,515) | 1:760:B:LEU:HD12 | 1:757:B:TRP:HA | 5 | 0.17 | 0.03 | 0.16 |
| (2,515) | 1:760:B:LEU:HD13 | 1:757:B:TRP:HA | 5 | 0.17 | 0.03 | 0.16 |
| (2,519) | 1:763:B:LEU:HD11 | 1:764:B:SER:HG | 5 | 0.16 | 0.04 | 0.14 |
| (2,519) | 1:763:B:LEU:HD12 | 1:764:B:SER:HG | 5 | 0.16 | 0.04 | 0.14 |
| (2,519) | 1:763:B:LEU:HD13 | 1:764:B:SER:HG | 5 | 0.16 | 0.04 | 0.14 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 5 | 0.16 | 0.06 | 0.16 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 5 | 0.16 | 0.06 | 0.16 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 5 | 0.16 | 0.06 | 0.16 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 5 | 0.16 | 0.06 | 0.16 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 5 | 0.16 | 0.06 | 0.16 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 5 | 0.16 | 0.06 | 0.16 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 5 | 0.16 | 0.03 | 0.15 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 5 | 0.16 | 0.03 | 0.15 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 5 | 0.16 | 0.03 | 0.15 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 5 | 0.16 | 0.03 | 0.15 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 5 | 0.16 | 0.03 | 0.15 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 5 | 0.16 | 0.03 | 0.15 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 5 | 0.16 | 0.03 | 0.15 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 5 | 0.16 | 0.03 | 0.15 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 5 | 0.16 | 0.03 | 0.15 |
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 5 | 0.16 | 0.06 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 5 | 0.16 | 0.06 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 5 | 0.16 | 0.06 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 5 | 0.16 | 0.06 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 5 | 0.16 | 0.06 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 5 | 0.16 | 0.06 | 0.16 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 5 | 0.16 | 0.03 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 5 | 0.16 | 0.03 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 5 | 0.16 | 0.03 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 5 | 0.16 | 0.03 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 5 | 0.16 | 0.03 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 5 | 0.16 | 0.03 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 5 | 0.16 | 0.03 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 5 | 0.16 | 0.03 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 5 | 0.16 | 0.03 | 0.15 |
| (2,253) | 1:669:B:LEU:H | 1:666:B:TRP:HA | 5 | 0.16 | 0.02 | 0.16 |
| (2,608) | 1:786:B:GLY:H | 1:782:B:VAL:HA | 5 | 0.16 | 0.06 | 0.15 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 5 | 0.15 | 0.04 | 0.14 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 5 | 0.15 | 0.04 | 0.14 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 5 | 0.15 | 0.04 | 0.14 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 5 | 0.15 | 0.04 | 0.14 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 5 | 0.15 | 0.04 | 0.14 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 5 | 0.15 | 0.04 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 5 | 0.15 | 0.04 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 5 | 0.15 | 0.04 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 5 | 0.15 | 0.04 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 5 | 0.15 | 0.04 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 5 | 0.15 | 0.04 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 5 | 0.15 | 0.04 | 0.14 |
| (1,3) | 1:791:B:GLU:O | 1:795:B:TYR:H | 5 | 0.15 | 0.01 | 0.16 |
| (1,89) | 1:791:B:GLU:O | 1:795:B:TYR:H | 5 | 0.15 | 0.01 | 0.16 |
| (1,175) | 1:791:B:GLU:O | 1:795:B:TYR:H | 5 | 0.15 | 0.01 | 0.16 |
| (2,367) | 1:700:B:ALA:HB1 | 1:697:B:ILE:HA | 5 | 0.15 | 0.04 | 0.15 |
| (2,367) | 1:700:B:ALA:HB2 | 1:697:B:ILE:HA | 5 | 0.15 | 0.04 | 0.15 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,367) | 1:700:B:ALA:HB3 | 1:697:B:ILE:HA | 5 | 0.15 | 0.04 | 0.15 |
| (2,615) | 1:796:B:TRP:HE1 | 1:796:B:TRP:H | 5 | 0.14 | 0.02 | 0.13 |
| (2,925) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 5 | 0.14 | 0.02 | 0.13 |
| (2,925) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 5 | 0.14 | 0.02 | 0.13 |
| (2,925) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 5 | 0.14 | 0.02 | 0.13 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 5 | 0.14 | 0.02 | 0.13 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 5 | 0.14 | 0.02 | 0.13 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 5 | 0.14 | 0.02 | 0.13 |
| (2,1350) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 5 | 0.14 | 0.02 | 0.13 |
| (2,1350) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 5 | 0.14 | 0.02 | 0.13 |
| (2,1350) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 5 | 0.14 | 0.02 | 0.13 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 5 | 0.14 | 0.02 | 0.13 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 5 | 0.14 | 0.02 | 0.13 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 5 | 0.14 | 0.02 | 0.13 |
| (2,286) | 1:678:B:TRP:HE1 | 1:682:B:ILE:H | 5 | 0.13 | 0.03 | 0.11 |
| (2,799) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 5 | 0.12 | 0.02 | 0.11 |
| (2,1224) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 5 | 0.12 | 0.02 | 0.11 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD21 | 4 | 0.41 | 0.21 | 0.44 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD22 | 4 | 0.41 | 0.21 | 0.44 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD23 | 4 | 0.41 | 0.21 | 0.44 |
| (2,492) | 1:753:B:LEU:HD21 | 1:750:B:ASN:HB2 | 4 | 0.4 | 0.15 | 0.42 |
| (2,492) | 1:753:B:LEU:HD21 | 1:750:B:ASN:HB3 | 4 | 0.4 | 0.15 | 0.42 |
| (2,492) | 1:753:B:LEU:HD22 | 1:750:B:ASN:HB2 | 4 | 0.4 | 0.15 | 0.42 |
| (2,492) | 1:753:B:LEU:HD22 | 1:750:B:ASN:HB3 | 4 | 0.4 | 0.15 | 0.42 |
| (2,492) | 1:753:B:LEU:HD23 | 1:750:B:ASN:HB2 | 4 | 0.4 | 0.15 | 0.42 |
| (2,492) | 1:753:B:LEU:HD23 | 1:750:B:ASN:HB3 | 4 | 0.4 | 0.15 | 0.42 |
| (2,169) | 1:797:B:TRP:HE1 | 1:848:B:ARG:HB2 | 4 | 0.4 | 0.18 | 0.42 |
| (2,169) | 1:797:B:TRP:HE1 | 1:848:B:ARG:HB3 | 4 | 0.4 | 0.18 | 0.42 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD11 | 4 | 0.36 | 0.16 | 0.33 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD12 | 4 | 0.36 | 0.16 | 0.33 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD13 | 4 | 0.36 | 0.16 | 0.33 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD11 | 4 | 0.36 | 0.16 | 0.33 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD12 | 4 | 0.36 | 0.16 | 0.33 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD13 | 4 | 0.36 | 0.16 | 0.33 |
| (2,765) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG2 | 4 | 0.34 | 0.13 | 0.34 |
| (2,765) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG3 | 4 | 0.34 | 0.13 | 0.34 |
| (2,765) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG2 | 4 | 0.34 | 0.13 | 0.34 |
| (2,765) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG3 | 4 | 0.34 | 0.13 | 0.34 |
| (2,765) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG2 | 4 | 0.34 | 0.13 | 0.34 |
| (2,765) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG3 | 4 | 0.34 | 0.13 | 0.34 |
| (2,1190) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG2 | 4 | 0.34 | 0.13 | 0.34 |
| (2,1190) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG3 | 4 | 0.34 | 0.13 | 0.34 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1190) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG2 | 4 | 0.34 | 0.13 | 0.34 |
| (2,1190) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG3 | 4 | 0.34 | 0.13 | 0.34 |
| (2,1190) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG2 | 4 | 0.34 | 0.13 | 0.34 |
| (2,1190) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG3 | 4 | 0.34 | 0.13 | 0.34 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD11 | 4 | 0.31 | 0.11 | 0.33 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD12 | 4 | 0.31 | 0.11 | 0.33 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD13 | 4 | 0.31 | 0.11 | 0.33 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD21 | 4 | 0.31 | 0.11 | 0.33 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD22 | 4 | 0.31 | 0.11 | 0.33 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD23 | 4 | 0.31 | 0.11 | 0.33 |
| (2,241) | 1:666:B:TRP:HE1 | 1:662:B:GLU:H | 4 | 0.27 | 0.05 | 0.26 |
| (2,470) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HA | 4 | 0.26 | 0.17 | 0.2 |
| (2,470) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HA | 4 | 0.26 | 0.17 | 0.2 |
| (2,470) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HA | 4 | 0.26 | 0.17 | 0.2 |
| (2,896) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB2 | 4 | 0.25 | 0.1 | 0.26 |
| (2,896) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB3 | 4 | 0.25 | 0.1 | 0.26 |
| (2,896) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB2 | 4 | 0.25 | 0.1 | 0.26 |
| (2,896) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB3 | 4 | 0.25 | 0.1 | 0.26 |
| (2,896) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB2 | 4 | 0.25 | 0.1 | 0.26 |
| (2,896) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB3 | 4 | 0.25 | 0.1 | 0.26 |
| (2,952) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH21 | 4 | 0.25 | 0.06 | 0.26 |
| (2,952) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH22 | 4 | 0.25 | 0.06 | 0.26 |
| (2,952) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH21 | 4 | 0.25 | 0.06 | 0.26 |
| (2,952) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH22 | 4 | 0.25 | 0.06 | 0.26 |
| (2,952) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH21 | 4 | 0.25 | 0.06 | 0.26 |
| (2,952) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH22 | 4 | 0.25 | 0.06 | 0.26 |
| (2,1321) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB2 | 4 | 0.25 | 0.1 | 0.26 |
| (2,1321) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB3 | 4 | 0.25 | 0.1 | 0.26 |
| (2,1321) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB2 | 4 | 0.25 | 0.1 | 0.26 |
| (2,1321) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB3 | 4 | 0.25 | 0.1 | 0.26 |
| (2,1321) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB2 | 4 | 0.25 | 0.1 | 0.26 |
| (2,1321) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB3 | 4 | 0.25 | 0.1 | 0.26 |
| (2,1377) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH21 | 4 | 0.25 | 0.06 | 0.26 |
| (2,1377) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH22 | 4 | 0.25 | 0.06 | 0.26 |
| (2,1377) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH21 | 4 | 0.25 | 0.06 | 0.26 |
| (2,1377) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH22 | 4 | 0.25 | 0.06 | 0.26 |
| (2,1377) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH21 | 4 | 0.25 | 0.06 | 0.26 |
| (2,1377) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH22 | 4 | 0.25 | 0.06 | 0.26 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG21 | 4 | 0.25 | 0.09 | 0.3 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG22 | 4 | 0.25 | 0.09 | 0.3 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG23 | 4 | 0.25 | 0.09 | 0.3 |
| (2,798) | 1:701:A:VAL:HG21 | 1:698:A:VAL:HA | 4 | 0.24 | 0.1 | 0.23 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,798) | 1:701:A:VAL:HG22 | 1:698:A:VAL:HA | 4 | 0.24 | 0.1 | 0.23 |
| (2,798) | 1:701:A:VAL:HG23 | 1:698:A:VAL:HA | 4 | 0.24 | 0.1 | 0.23 |
| (2,1223) | 1:701:A:VAL:HG21 | 1:698:A:VAL:HA | 4 | 0.24 | 0.1 | 0.23 |
| (2,1223) | 1:701:A:VAL:HG22 | 1:698:A:VAL:HA | 4 | 0.24 | 0.1 | 0.23 |
| (2,1223) | 1:701:A:VAL:HG23 | 1:698:A:VAL:HA | 4 | 0.24 | 0.1 | 0.23 |
| (2,518) | 1:763:B:LEU:HD11 | 1:759:B:ASP:HA | 4 | 0.23 | 0.09 | 0.23 |
| (2,518) | 1:763:B:LEU:HD12 | 1:759:B:ASP:HA | 4 | 0.23 | 0.09 | 0.23 |
| (2,518) | 1:763:B:LEU:HD13 | 1:759:B:ASP:HA | 4 | 0.23 | 0.09 | 0.23 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG21 | 4 | 0.22 | 0.14 | 0.16 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG22 | 4 | 0.22 | 0.14 | 0.16 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG23 | 4 | 0.22 | 0.14 | 0.16 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG21 | 4 | 0.22 | 0.14 | 0.16 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG22 | 4 | 0.22 | 0.14 | 0.16 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG23 | 4 | 0.22 | 0.14 | 0.16 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG21 | 4 | 0.22 | 0.14 | 0.16 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG22 | 4 | 0.22 | 0.14 | 0.16 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG23 | 4 | 0.22 | 0.14 | 0.16 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG21 | 4 | 0.22 | 0.14 | 0.16 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG22 | 4 | 0.22 | 0.14 | 0.16 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG23 | 4 | 0.22 | 0.14 | 0.16 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG21 | 4 | 0.22 | 0.14 | 0.16 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG22 | 4 | 0.22 | 0.14 | 0.16 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG23 | 4 | 0.22 | 0.14 | 0.16 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG21 | 4 | 0.22 | 0.14 | 0.16 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG22 | 4 | 0.22 | 0.14 | 0.16 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG23 | 4 | 0.22 | 0.14 | 0.16 |
| (2,414) | 1:707:B:ARG:H | 1:704:B:LEU:HA | 4 | 0.22 | 0.05 | 0.22 |
| (2,697) | 1:674:A:ASP:H | 1:677:A:ASN:H | 4 | 0.21 | 0.05 | 0.2 |
| (2,1122) | 1:674:A:ASP:H | 1:677:A:ASN:H | 4 | 0.21 | 0.05 | 0.2 |
| (2,586) | 1:782:B:VAL:HG21 | 1:779:B:THR:HA | 4 | 0.2 | 0.09 | 0.2 |
| (2,586) | 1:782:B:VAL:HG22 | 1:779:B:THR:HA | 4 | 0.2 | 0.09 | 0.2 |
| (2,586) | 1:782:B:VAL:HG23 | 1:779:B:THR:HA | 4 | 0.2 | 0.09 | 0.2 |
| (2,804) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB2 | 4 | 0.2 | 0.08 | 0.16 |
| (2,804) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB3 | 4 | 0.2 | 0.08 | 0.16 |
| (2,804) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB2 | 4 | 0.2 | 0.08 | 0.16 |
| (2,804) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB3 | 4 | 0.2 | 0.08 | 0.16 |
| (2,804) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB2 | 4 | 0.2 | 0.08 | 0.16 |
| (2,804) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB3 | 4 | 0.2 | 0.08 | 0.16 |
| (2,1229) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB2 | 4 | 0.2 | 0.08 | 0.16 |
| (2,1229) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB3 | 4 | 0.2 | 0.08 | 0.16 |
| (2,1229) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB2 | 4 | 0.2 | 0.08 | 0.16 |
| (2,1229) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB3 | 4 | 0.2 | 0.08 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|-----|--------|--------|-----------|----------|-----------|------------|
| (2,1229) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB2 | 4 | 0.2 | 0.08 | 0.16 |
| (2,1229) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB3 | 4 | 0.2 | 0.08 | 0.16 |
| (2,898) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD22 | 4 | 0.19 | 0.04 | 0.18 |
| (2,898) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD22 | 4 | 0.19 | 0.04 | 0.18 |
| (2,898) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD22 | 4 | 0.19 | 0.04 | 0.18 |
| (2,1323) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD22 | 4 | 0.19 | 0.04 | 0.18 |
| (2,1323) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD22 | 4 | 0.19 | 0.04 | 0.18 |
| (2,1323) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD22 | 4 | 0.19 | 0.04 | 0.18 |
| (2,352) | 1:697:B:ILE:HG21 | 1:694:B:GLY:HA2 | 4 | 0.18 | 0.08 | 0.16 |
| (2,352) | 1:697:B:ILE:HG21 | 1:694:B:GLY:HA3 | 4 | 0.18 | 0.08 | 0.16 |
| (2,352) | 1:697:B:ILE:HG22 | 1:694:B:GLY:HA2 | 4 | 0.18 | 0.08 | 0.16 |
| (2,352) | 1:697:B:ILE:HG22 | 1:694:B:GLY:HA3 | 4 | 0.18 | 0.08 | 0.16 |
| (2,352) | 1:697:B:ILE:HG23 | 1:694:B:GLY:HA2 | 4 | 0.18 | 0.08 | 0.16 |
| (2,352) | 1:697:B:ILE:HG23 | 1:694:B:GLY:HA3 | 4 | 0.18 | 0.08 | 0.16 |
| (2,845) | 1:707:A:ARG:H | 1:707:A:ARG:HG2 | 4 | 0.18 | 0.07 | 0.15 |
| (2,845) | 1:707:A:ARG:H | 1:707:A:ARG:HG3 | 4 | 0.18 | 0.07 | 0.15 |
| (2,1270) | 1:707:A:ARG:H | 1:707:A:ARG:HG2 | 4 | 0.18 | 0.07 | 0.15 |
| (2,1270) | 1:707:A:ARG:H | 1:707:A:ARG:HG3 | 4 | 0.18 | 0.07 | 0.15 |
| (2,546) | 1:776:B:LEU:H | 1:773:B:ASP:HA | 4 | 0.18 | 0.03 | 0.16 |
| (2,268) | 1:672:B:TRP:H | 1:673:B:PHE:H | 4 | 0.18 | 0.11 | 0.12 |
| (2,357) | 1:698:B:VAL:HG11 | 1:699:B:PHE:HD1 | 4 | 0.17 | 0.04 | 0.16 |
| (2,357) | 1:698:B:VAL:HG11 | 1:699:B:PHE:HD2 | 4 | 0.17 | 0.04 | 0.16 |
| (2,357) | 1:698:B:VAL:HG12 | 1:699:B:PHE:HD1 | 4 | 0.17 | 0.04 | 0.16 |
| (2,357) | 1:698:B:VAL:HG12 | 1:699:B:PHE:HD2 | 4 | 0.17 | 0.04 | 0.16 |
| (2,357) | 1:698:B:VAL:HG13 | 1:699:B:PHE:HD1 | 4 | 0.17 | 0.04 | 0.16 |
| (2,357) | 1:698:B:VAL:HG13 | 1:699:B:PHE:HD2 | 4 | 0.17 | 0.04 | 0.16 |
| (2,693) | 1:672:A:TRP:H | 1:673:A:PHE:H | 4 | 0.16 | 0.03 | 0.17 |
| (2,951) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE1 | 4 | 0.16 | 0.05 | 0.14 |
| (2,951) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE2 | 4 | 0.16 | 0.05 | 0.14 |
| (2,951) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE1 | 4 | 0.16 | 0.05 | 0.14 |
| (2,951) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE2 | 4 | 0.16 | 0.05 | 0.14 |
| (2,951) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE1 | 4 | 0.16 | 0.05 | 0.14 |
| (2,951) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE2 | 4 | 0.16 | 0.05 | 0.14 |
| (2,1118) | 1:672:A:TRP:H | 1:673:A:PHE:H | 4 | 0.16 | 0.03 | 0.17 |
| (2,1376) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE1 | 4 | 0.16 | 0.05 | 0.14 |
| (2,1376) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE2 | 4 | 0.16 | 0.05 | 0.14 |
| (2,1376) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE1 | 4 | 0.16 | 0.05 | 0.14 |
| (2,1376) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE2 | 4 | 0.16 | 0.05 | 0.14 |
| (2,1376) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE1 | 4 | 0.16 | 0.05 | 0.14 |
| (2,1376) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE2 | 4 | 0.16 | 0.05 | 0.14 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG21 | 4 | 0.16 | 0.01 | 0.16 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG22 | 4 | 0.16 | 0.01 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG23 | 4 | 0.16 | 0.01 | 0.16 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG21 | 4 | 0.16 | 0.01 | 0.16 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG22 | 4 | 0.16 | 0.01 | 0.16 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG23 | 4 | 0.16 | 0.01 | 0.16 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG21 | 4 | 0.16 | 0.01 | 0.16 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG22 | 4 | 0.16 | 0.01 | 0.16 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG23 | 4 | 0.16 | 0.01 | 0.16 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG11 | 4 | 0.16 | 0.05 | 0.15 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG12 | 4 | 0.16 | 0.05 | 0.15 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG13 | 4 | 0.16 | 0.05 | 0.15 |
| (2,280) | 1:676:B:THR:HG21 | 1:681:B:TYR:HH | 4 | 0.15 | 0.03 | 0.15 |
| (2,280) | 1:676:B:THR:HG22 | 1:681:B:TYR:HH | 4 | 0.15 | 0.03 | 0.15 |
| (2,280) | 1:676:B:THR:HG23 | 1:681:B:TYR:HH | 4 | 0.15 | 0.03 | 0.15 |
| (2,340) | 1:693:B:ILE:HG21 | 1:696:B:ARG:HG2 | 4 | 0.15 | 0.03 | 0.16 |
| (2,340) | 1:693:B:ILE:HG21 | 1:696:B:ARG:HG3 | 4 | 0.15 | 0.03 | 0.16 |
| (2,340) | 1:693:B:ILE:HG22 | 1:696:B:ARG:HG2 | 4 | 0.15 | 0.03 | 0.16 |
| (2,340) | 1:693:B:ILE:HG22 | 1:696:B:ARG:HG3 | 4 | 0.15 | 0.03 | 0.16 |
| (2,340) | 1:693:B:ILE:HG23 | 1:696:B:ARG:HG2 | 4 | 0.15 | 0.03 | 0.16 |
| (2,340) | 1:693:B:ILE:HG23 | 1:696:B:ARG:HG3 | 4 | 0.15 | 0.03 | 0.16 |
| (2,593) | 1:784:B:LEU:H | 1:781:B:ILE:HA | 4 | 0.14 | 0.03 | 0.14 |
| (2,770) | 1:695:A:LEU:HD21 | 1:698:A:VAL:HB | 4 | 0.14 | 0.03 | 0.14 |
| (2,770) | 1:695:A:LEU:HD22 | 1:698:A:VAL:HB | 4 | 0.14 | 0.03 | 0.14 |
| (2,770) | 1:695:A:LEU:HD23 | 1:698:A:VAL:HB | 4 | 0.14 | 0.03 | 0.14 |
| (2,803) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE1 | 4 | 0.14 | 0.01 | 0.14 |
| (2,803) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE2 | 4 | 0.14 | 0.01 | 0.14 |
| (2,803) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE1 | 4 | 0.14 | 0.01 | 0.14 |
| (2,803) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE2 | 4 | 0.14 | 0.01 | 0.14 |
| (2,803) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE1 | 4 | 0.14 | 0.01 | 0.14 |
| (2,803) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE2 | 4 | 0.14 | 0.01 | 0.14 |
| (2,1011) | 1:782:A:VAL:HG21 | 1:779:A:THR:HA | 4 | 0.14 | 0.02 | 0.15 |
| (2,1011) | 1:782:A:VAL:HG22 | 1:779:A:THR:HA | 4 | 0.14 | 0.02 | 0.15 |
| (2,1011) | 1:782:A:VAL:HG23 | 1:779:A:THR:HA | 4 | 0.14 | 0.02 | 0.15 |
| (2,1195) | 1:695:A:LEU:HD21 | 1:698:A:VAL:HB | 4 | 0.14 | 0.03 | 0.14 |
| (2,1195) | 1:695:A:LEU:HD22 | 1:698:A:VAL:HB | 4 | 0.14 | 0.03 | 0.14 |
| (2,1195) | 1:695:A:LEU:HD23 | 1:698:A:VAL:HB | 4 | 0.14 | 0.03 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE1 | 4 | 0.14 | 0.01 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE2 | 4 | 0.14 | 0.01 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE1 | 4 | 0.14 | 0.01 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE2 | 4 | 0.14 | 0.01 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE1 | 4 | 0.14 | 0.01 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE2 | 4 | 0.14 | 0.01 | 0.14 |
| (2,1436) | 1:782:A:VAL:HG21 | 1:779:A:THR:HA | 4 | 0.14 | 0.02 | 0.15 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1436) | 1:782:A:VAL:HG22 | 1:779:A:THR:HA | 4 | 0.14 | 0.02 | 0.15 |
| (2,1436) | 1:782:A:VAL:HG23 | 1:779:A:THR:HA | 4 | 0.14 | 0.02 | 0.15 |
| (1,73) | 1:836:B:ALA:O | 1:840:B:ILE:H | 4 | 0.14 | 0.02 | 0.14 |
| (1,159) | 1:836:B:ALA:O | 1:840:B:ILE:H | 4 | 0.14 | 0.02 | 0.14 |
| (1,245) | 1:836:B:ALA:O | 1:840:B:ILE:H | 4 | 0.14 | 0.02 | 0.14 |
| (2,465) | 1:746:B:ILE:H | 1:743:B:ASP:HB2 | 4 | 0.13 | 0.02 | 0.12 |
| (2,465) | 1:746:B:ILE:H | 1:743:B:ASP:HB3 | 4 | 0.13 | 0.02 | 0.12 |
| (2,60) | 1:700:A:ALA:HB1 | 1:699:B:PHE:HD1 | 4 | 0.13 | 0.01 | 0.12 |
| (2,60) | 1:700:A:ALA:HB1 | 1:699:B:PHE:HD2 | 4 | 0.13 | 0.01 | 0.12 |
| (2,60) | 1:700:A:ALA:HB2 | 1:699:B:PHE:HD1 | 4 | 0.13 | 0.01 | 0.12 |
| (2,60) | 1:700:A:ALA:HB2 | 1:699:B:PHE:HD2 | 4 | 0.13 | 0.01 | 0.12 |
| (2,60) | 1:700:A:ALA:HB3 | 1:699:B:PHE:HD1 | 4 | 0.13 | 0.01 | 0.12 |
| (2,60) | 1:700:A:ALA:HB3 | 1:699:B:PHE:HD2 | 4 | 0.13 | 0.01 | 0.12 |
| (2,666) | 1:666:A:TRP:HE1 | 1:662:A:GLU:H | 4 | 0.13 | 0.01 | 0.14 |
| (2,1091) | 1:666:A:TRP:HE1 | 1:662:A:GLU:H | 4 | 0.13 | 0.01 | 0.14 |
| (1,85) | 1:850:B:GLY:O | 1:854:B:ILE:H | 4 | 0.13 | 0.01 | 0.12 |
| (1,171) | 1:850:B:GLY:O | 1:854:B:ILE:H | 4 | 0.13 | 0.01 | 0.12 |
| (1,257) | 1:850:B:GLY:O | 1:854:B:ILE:H | 4 | 0.13 | 0.01 | 0.12 |
| (2,96) | 1:755:A:LEU:HD11 | 1:710:B:GLN:HE21 | 4 | 0.13 | 0.02 | 0.12 |
| (2,96) | 1:755:A:LEU:HD11 | 1:710:B:GLN:HE22 | 4 | 0.13 | 0.02 | 0.12 |
| (2,96) | 1:755:A:LEU:HD12 | 1:710:B:GLN:HE21 | 4 | 0.13 | 0.02 | 0.12 |
| (2,96) | 1:755:A:LEU:HD12 | 1:710:B:GLN:HE22 | 4 | 0.13 | 0.02 | 0.12 |
| (2,96) | 1:755:A:LEU:HD13 | 1:710:B:GLN:HE21 | 4 | 0.13 | 0.02 | 0.12 |
| (2,96) | 1:755:A:LEU:HD13 | 1:710:B:GLN:HE22 | 4 | 0.13 | 0.02 | 0.12 |
| (1,4) | 1:791:B:GLU:O | 1:795:B:TYR:N | 4 | 0.12 | 0.02 | 0.12 |
| (1,90) | 1:791:B:GLU:O | 1:795:B:TYR:N | 4 | 0.12 | 0.02 | 0.12 |
| (1,176) | 1:791:B:GLU:O | 1:795:B:TYR:N | 4 | 0.12 | 0.02 | 0.12 |
| (1,27) | 1:803:B:TRP:O | 1:807:B:LEU:H | 4 | 0.12 | 0.02 | 0.12 |
| (1,113) | 1:803:B:TRP:O | 1:807:B:LEU:H | 4 | 0.12 | 0.02 | 0.12 |
| (1,199) | 1:803:B:TRP:O | 1:807:B:LEU:H | 4 | 0.12 | 0.02 | 0.12 |
| (2,276) | 1:676:B:THR:HG21 | 1:666:B:TRP:HZ3 | 4 | 0.12 | 0.01 | 0.12 |
| (2,276) | 1:676:B:THR:HG22 | 1:666:B:TRP:HZ3 | 4 | 0.12 | 0.01 | 0.12 |
| (2,276) | 1:676:B:THR:HG23 | 1:666:B:TRP:HZ3 | 4 | 0.12 | 0.01 | 0.12 |
| (2,1001) | 1:781:A:ILE:H | 1:780:A:ARG:HA | 4 | 0.12 | 0.01 | 0.12 |
| (2,1426) | 1:781:A:ILE:H | 1:780:A:ARG:HA | 4 | 0.12 | 0.01 | 0.12 |
| (2,672) | 1:667:A:ALA:HB1 | 1:664:A:ASP:HA | 4 | 0.12 | 0.0 | 0.12 |
| (2,672) | 1:667:A:ALA:HB2 | 1:664:A:ASP:HA | 4 | 0.12 | 0.0 | 0.12 |
| (2,672) | 1:667:A:ALA:HB3 | 1:664:A:ASP:HA | 4 | 0.12 | 0.0 | 0.12 |
| (2,1097) | 1:667:A:ALA:HB1 | 1:664:A:ASP:HA | 4 | 0.12 | 0.0 | 0.12 |
| (2,1097) | 1:667:A:ALA:HB2 | 1:664:A:ASP:HA | 4 | 0.12 | 0.0 | 0.12 |
| (2,1097) | 1:667:A:ALA:HB3 | 1:664:A:ASP:HA | 4 | 0.12 | 0.0 | 0.12 |
| (2,41) | 1:693:A:ILE:H | 1:693:A:ILE:HG12 | 3 | 1.04 | 0.17 | 1.03 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|-----|--------|--------|-----------|----------|-----------|------------|
| (2,41) | 1:693:A:ILE:H | 1:693:A:ILE:HG13 | 3 | 1.04 | 0.17 | 1.03 |
| (2,783) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB2 | 3 | 0.65 | 0.07 | 0.66 |
| (2,783) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB3 | 3 | 0.65 | 0.07 | 0.66 |
| (2,783) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB2 | 3 | 0.65 | 0.07 | 0.66 |
| (2,783) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB3 | 3 | 0.65 | 0.07 | 0.66 |
| (2,783) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB2 | 3 | 0.65 | 0.07 | 0.66 |
| (2,783) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB3 | 3 | 0.65 | 0.07 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB2 | 3 | 0.65 | 0.07 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB3 | 3 | 0.65 | 0.07 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB2 | 3 | 0.65 | 0.07 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB3 | 3 | 0.65 | 0.07 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB2 | 3 | 0.65 | 0.07 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB3 | 3 | 0.65 | 0.07 | 0.66 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD21 | 3 | 0.4 | 0.04 | 0.42 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD22 | 3 | 0.4 | 0.04 | 0.42 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD23 | 3 | 0.4 | 0.04 | 0.42 |
| (2,12) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HZ2 | 3 | 0.35 | 0.14 | 0.37 |
| (2,420) | 1:707:B:ARG:H | 1:707:B:ARG:HG2 | 3 | 0.31 | 0.09 | 0.35 |
| (2,420) | 1:707:B:ARG:H | 1:707:B:ARG:HG3 | 3 | 0.31 | 0.09 | 0.35 |
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB1 | 3 | 0.3 | 0.08 | 0.32 |
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB2 | 3 | 0.3 | 0.08 | 0.32 |
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB3 | 3 | 0.3 | 0.08 | 0.32 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB1 | 3 | 0.3 | 0.08 | 0.32 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB2 | 3 | 0.3 | 0.08 | 0.32 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB3 | 3 | 0.3 | 0.08 | 0.32 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB1 | 3 | 0.3 | 0.08 | 0.32 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB2 | 3 | 0.3 | 0.08 | 0.32 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB3 | 3 | 0.3 | 0.08 | 0.32 |
| (2,863) | 1:709:A:ARG:HE | 1:709:A:ARG:H | 3 | 0.3 | 0.16 | 0.23 |
| (2,1288) | 1:709:A:ARG:HE | 1:709:A:ARG:H | 3 | 0.3 | 0.16 | 0.23 |
| (2,1057) | 1:852:A:GLU:H | 1:848:A:ARG:HG2 | 3 | 0.3 | 0.13 | 0.39 |
| (2,1057) | 1:852:A:GLU:H | 1:848:A:ARG:HG3 | 3 | 0.3 | 0.13 | 0.39 |
| (2,1482) | 1:852:A:GLU:H | 1:848:A:ARG:HG2 | 3 | 0.3 | 0.13 | 0.39 |
| (2,1482) | 1:852:A:GLU:H | 1:848:A:ARG:HG3 | 3 | 0.3 | 0.13 | 0.39 |
| (2,403) | 1:705:B:VAL:HG11 | 1:709:B:ARG:HD2 | 3 | 0.27 | 0.19 | 0.14 |
| (2,403) | 1:705:B:VAL:HG11 | 1:709:B:ARG:HD3 | 3 | 0.27 | 0.19 | 0.14 |
| (2,403) | 1:705:B:VAL:HG12 | 1:709:B:ARG:HD2 | 3 | 0.27 | 0.19 | 0.14 |
| (2,403) | 1:705:B:VAL:HG12 | 1:709:B:ARG:HD3 | 3 | 0.27 | 0.19 | 0.14 |
| (2,403) | 1:705:B:VAL:HG13 | 1:709:B:ARG:HD2 | 3 | 0.27 | 0.19 | 0.14 |
| (2,403) | 1:705:B:VAL:HG13 | 1:709:B:ARG:HD3 | 3 | 0.27 | 0.19 | 0.14 |
| (2,719) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB2 | 3 | 0.25 | 0.04 | 0.26 |
| (2,719) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB3 | 3 | 0.25 | 0.04 | 0.26 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,719) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB2 | 3 | 0.25 | 0.04 | 0.26 |
| (2,719) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB3 | 3 | 0.25 | 0.04 | 0.26 |
| (2,719) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB2 | 3 | 0.25 | 0.04 | 0.26 |
| (2,719) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB3 | 3 | 0.25 | 0.04 | 0.26 |
| (2,757) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB2 | 3 | 0.25 | 0.1 | 0.3 |
| (2,757) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB3 | 3 | 0.25 | 0.1 | 0.3 |
| (2,757) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB2 | 3 | 0.25 | 0.1 | 0.3 |
| (2,757) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB3 | 3 | 0.25 | 0.1 | 0.3 |
| (2,757) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB2 | 3 | 0.25 | 0.1 | 0.3 |
| (2,757) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB3 | 3 | 0.25 | 0.1 | 0.3 |
| (2,1144) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB2 | 3 | 0.25 | 0.04 | 0.26 |
| (2,1144) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB3 | 3 | 0.25 | 0.04 | 0.26 |
| (2,1144) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB2 | 3 | 0.25 | 0.04 | 0.26 |
| (2,1144) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB3 | 3 | 0.25 | 0.04 | 0.26 |
| (2,1144) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB2 | 3 | 0.25 | 0.04 | 0.26 |
| (2,1144) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB3 | 3 | 0.25 | 0.04 | 0.26 |
| (2,1182) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB2 | 3 | 0.25 | 0.1 | 0.3 |
| (2,1182) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB3 | 3 | 0.25 | 0.1 | 0.3 |
| (2,1182) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB2 | 3 | 0.25 | 0.1 | 0.3 |
| (2,1182) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB3 | 3 | 0.25 | 0.1 | 0.3 |
| (2,1182) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB2 | 3 | 0.25 | 0.1 | 0.3 |
| (2,1182) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB3 | 3 | 0.25 | 0.1 | 0.3 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD11 | 3 | 0.25 | 0.08 | 0.22 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD12 | 3 | 0.25 | 0.08 | 0.22 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD13 | 3 | 0.25 | 0.08 | 0.22 |
| (2,751) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD1 | 3 | 0.24 | 0.04 | 0.26 |
| (2,751) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD2 | 3 | 0.24 | 0.04 | 0.26 |
| (2,751) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD1 | 3 | 0.24 | 0.04 | 0.26 |
| (2,751) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD2 | 3 | 0.24 | 0.04 | 0.26 |
| (2,751) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD1 | 3 | 0.24 | 0.04 | 0.26 |
| (2,751) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD2 | 3 | 0.24 | 0.04 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD1 | 3 | 0.24 | 0.04 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD2 | 3 | 0.24 | 0.04 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD1 | 3 | 0.24 | 0.04 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD2 | 3 | 0.24 | 0.04 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD1 | 3 | 0.24 | 0.04 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD2 | 3 | 0.24 | 0.04 | 0.26 |
| (2,797) | 1:701:A:VAL:HG11 | 1:698:A:VAL:HA | 3 | 0.23 | 0.07 | 0.27 |
| (2,797) | 1:701:A:VAL:HG12 | 1:698:A:VAL:HA | 3 | 0.23 | 0.07 | 0.27 |
| (2,797) | 1:701:A:VAL:HG13 | 1:698:A:VAL:HA | 3 | 0.23 | 0.07 | 0.27 |
| (2,1222) | 1:701:A:VAL:HG11 | 1:698:A:VAL:HA | 3 | 0.23 | 0.07 | 0.27 |
| (2,1222) | 1:701:A:VAL:HG12 | 1:698:A:VAL:HA | 3 | 0.23 | 0.07 | 0.27 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|-----|--------|--------|-----------|----------|-----------|------------|
| (2,1222) | 1:701:A:VAL:HG13 | 1:698:A:VAL:HA | 3 | 0.23 | 0.07 | 0.27 |
| (2,982) | 1:777:A:ILE:HD11 | 1:774:A:LEU:HA | 3 | 0.22 | 0.01 | 0.22 |
| (2,982) | 1:777:A:ILE:HD12 | 1:774:A:LEU:HA | 3 | 0.22 | 0.01 | 0.22 |
| (2,982) | 1:777:A:ILE:HD13 | 1:774:A:LEU:HA | 3 | 0.22 | 0.01 | 0.22 |
| (2,1407) | 1:777:A:ILE:HD11 | 1:774:A:LEU:HA | 3 | 0.22 | 0.01 | 0.22 |
| (2,1407) | 1:777:A:ILE:HD12 | 1:774:A:LEU:HA | 3 | 0.22 | 0.01 | 0.22 |
| (2,1407) | 1:777:A:ILE:HD13 | 1:774:A:LEU:HA | 3 | 0.22 | 0.01 | 0.22 |
| (2,618) | 1:797:B:TRP:H | 1:796:B:TRP:HD1 | 3 | 0.2 | 0.05 | 0.21 |
| (2,970) | 1:775:A:LEU:HD11 | 1:772:A:ARG:HA | 3 | 0.2 | 0.08 | 0.14 |
| (2,970) | 1:775:A:LEU:HD12 | 1:772:A:ARG:HA | 3 | 0.2 | 0.08 | 0.14 |
| (2,970) | 1:775:A:LEU:HD13 | 1:772:A:ARG:HA | 3 | 0.2 | 0.08 | 0.14 |
| (2,1395) | 1:775:A:LEU:HD11 | 1:772:A:ARG:HA | 3 | 0.2 | 0.08 | 0.14 |
| (2,1395) | 1:775:A:LEU:HD12 | 1:772:A:ARG:HA | 3 | 0.2 | 0.08 | 0.14 |
| (2,1395) | 1:775:A:LEU:HD13 | 1:772:A:ARG:HA | 3 | 0.2 | 0.08 | 0.14 |
| (2,214) | 1:661:B:LEU:HD11 | 1:662:B:GLU:HG2 | 3 | 0.19 | 0.06 | 0.17 |
| (2,214) | 1:661:B:LEU:HD11 | 1:662:B:GLU:HG3 | 3 | 0.19 | 0.06 | 0.17 |
| (2,214) | 1:661:B:LEU:HD12 | 1:662:B:GLU:HG2 | 3 | 0.19 | 0.06 | 0.17 |
| (2,214) | 1:661:B:LEU:HD12 | 1:662:B:GLU:HG3 | 3 | 0.19 | 0.06 | 0.17 |
| (2,214) | 1:661:B:LEU:HD13 | 1:662:B:GLU:HG2 | 3 | 0.19 | 0.06 | 0.17 |
| (2,214) | 1:661:B:LEU:HD13 | 1:662:B:GLU:HG3 | 3 | 0.19 | 0.06 | 0.17 |
| (2,214) | 1:661:B:LEU:HD21 | 1:662:B:GLU:HG2 | 3 | 0.19 | 0.06 | 0.17 |
| (2,214) | 1:661:B:LEU:HD21 | 1:662:B:GLU:HG3 | 3 | 0.19 | 0.06 | 0.17 |
| (2,214) | 1:661:B:LEU:HD22 | 1:662:B:GLU:HG2 | 3 | 0.19 | 0.06 | 0.17 |
| (2,214) | 1:661:B:LEU:HD22 | 1:662:B:GLU:HG3 | 3 | 0.19 | 0.06 | 0.17 |
| (2,214) | 1:661:B:LEU:HD23 | 1:662:B:GLU:HG2 | 3 | 0.19 | 0.06 | 0.17 |
| (2,214) | 1:661:B:LEU:HD23 | 1:662:B:GLU:HG3 | 3 | 0.19 | 0.06 | 0.17 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD11 | 3 | 0.19 | 0.02 | 0.2 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD12 | 3 | 0.19 | 0.02 | 0.2 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD13 | 3 | 0.19 | 0.02 | 0.2 |
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD11 | 3 | 0.19 | 0.02 | 0.2 |
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD12 | 3 | 0.19 | 0.02 | 0.2 |
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD13 | 3 | 0.19 | 0.02 | 0.2 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD11 | 3 | 0.17 | 0.06 | 0.18 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD12 | 3 | 0.17 | 0.06 | 0.18 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD13 | 3 | 0.17 | 0.06 | 0.18 |
| (2,580) | 1:781:B:ILE:HG21 | 1:778:B:VAL:HA | 3 | 0.17 | 0.07 | 0.14 |
| (2,580) | 1:781:B:ILE:HG22 | 1:778:B:VAL:HA | 3 | 0.17 | 0.07 | 0.14 |
| (2,580) | 1:781:B:ILE:HG23 | 1:778:B:VAL:HA | 3 | 0.17 | 0.07 | 0.14 |
| (2,977) | 1:777:A:ILE:H | 1:774:A:LEU:HA | 3 | 0.17 | 0.03 | 0.17 |
| (2,1402) | 1:777:A:ILE:H | 1:774:A:LEU:HA | 3 | 0.17 | 0.03 | 0.17 |
| (2,55) | 1:696:B:ARG:HE | 1:694:A:GLY:HA2 | 3 | 0.16 | 0.01 | 0.16 |
| (2,55) | 1:696:B:ARG:HE | 1:694:A:GLY:HA3 | 3 | 0.16 | 0.01 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,777) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA2 | 3 | 0.16 | 0.04 | 0.18 |
| (2,777) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA3 | 3 | 0.16 | 0.04 | 0.18 |
| (2,777) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA2 | 3 | 0.16 | 0.04 | 0.18 |
| (2,777) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA3 | 3 | 0.16 | 0.04 | 0.18 |
| (2,777) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA2 | 3 | 0.16 | 0.04 | 0.18 |
| (2,777) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA3 | 3 | 0.16 | 0.04 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA2 | 3 | 0.16 | 0.04 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA3 | 3 | 0.16 | 0.04 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA2 | 3 | 0.16 | 0.04 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA3 | 3 | 0.16 | 0.04 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA2 | 3 | 0.16 | 0.04 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA3 | 3 | 0.16 | 0.04 | 0.18 |
| (2,705) | 1:676:A:THR:HG21 | 1:681:A:TYR:HH | 3 | 0.16 | 0.04 | 0.14 |
| (2,705) | 1:676:A:THR:HG22 | 1:681:A:TYR:HH | 3 | 0.16 | 0.04 | 0.14 |
| (2,705) | 1:676:A:THR:HG23 | 1:681:A:TYR:HH | 3 | 0.16 | 0.04 | 0.14 |
| (2,1130) | 1:676:A:THR:HG21 | 1:681:A:TYR:HH | 3 | 0.16 | 0.04 | 0.14 |
| (2,1130) | 1:676:A:THR:HG22 | 1:681:A:TYR:HH | 3 | 0.16 | 0.04 | 0.14 |
| (2,1130) | 1:676:A:THR:HG23 | 1:681:A:TYR:HH | 3 | 0.16 | 0.04 | 0.14 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD11 | 3 | 0.16 | 0.03 | 0.17 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD12 | 3 | 0.16 | 0.03 | 0.17 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD13 | 3 | 0.16 | 0.03 | 0.17 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD11 | 3 | 0.16 | 0.03 | 0.17 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD12 | 3 | 0.16 | 0.03 | 0.17 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD13 | 3 | 0.16 | 0.03 | 0.17 |
| (2,153) | 1:792:A:ALA:H | 1:752:B:SER:HB2 | 3 | 0.15 | 0.02 | 0.15 |
| (2,153) | 1:792:A:ALA:H | 1:752:B:SER:HB3 | 3 | 0.15 | 0.02 | 0.15 |
| (2,587) | 1:783:B:GLU:H | 1:780:B:ARG:HA | 3 | 0.15 | 0.04 | 0.12 |
| (2,667) | 1:667:A:ALA:H | 1:664:A:ASP:HA | 3 | 0.15 | 0.04 | 0.14 |
| (2,1092) | 1:667:A:ALA:H | 1:664:A:ASP:HA | 3 | 0.15 | 0.04 | 0.14 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD11 | 3 | 0.15 | 0.02 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD12 | 3 | 0.15 | 0.02 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD13 | 3 | 0.15 | 0.02 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD21 | 3 | 0.15 | 0.02 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD22 | 3 | 0.15 | 0.02 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD23 | 3 | 0.15 | 0.02 | 0.13 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD11 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD12 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD13 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD21 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD22 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD23 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD11 | 3 | 0.15 | 0.02 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD12 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD13 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD21 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD22 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD23 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD11 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD12 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD13 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD21 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD22 | 3 | 0.15 | 0.02 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD23 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD11 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD12 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD13 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD21 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD22 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD23 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD11 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD12 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD13 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD21 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD22 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD23 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD11 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD12 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD13 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD21 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD22 | 3 | 0.15 | 0.02 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD23 | 3 | 0.15 | 0.02 | 0.16 |
| (2,292) | 1:681:B:TYR:H | 1:682:B:ILE:H | 3 | 0.14 | 0.03 | 0.14 |
| (2,599) | 1:784:B:LEU:HD11 | 1:787:B:ARG:HD2 | 3 | 0.14 | 0.02 | 0.14 |
| (2,599) | 1:784:B:LEU:HD11 | 1:787:B:ARG:HD3 | 3 | 0.14 | 0.02 | 0.14 |
| (2,599) | 1:784:B:LEU:HD12 | 1:787:B:ARG:HD2 | 3 | 0.14 | 0.02 | 0.14 |
| (2,599) | 1:784:B:LEU:HD12 | 1:787:B:ARG:HD3 | 3 | 0.14 | 0.02 | 0.14 |
| (2,599) | 1:784:B:LEU:HD13 | 1:787:B:ARG:HD2 | 3 | 0.14 | 0.02 | 0.14 |
| (2,599) | 1:784:B:LEU:HD13 | 1:787:B:ARG:HD3 | 3 | 0.14 | 0.02 | 0.14 |
| (2,684) | 1:670:A:TRP:H | 1:667:A:ALA:HA | 3 | 0.14 | 0.01 | 0.14 |
| (2,1109) | 1:670:A:TRP:H | 1:667:A:ALA:HA | 3 | 0.14 | 0.01 | 0.14 |
| (2,330) | 1:692:B:LEU:HD11 | 1:689:B:VAL:HA | 3 | 0.14 | 0.04 | 0.12 |
| (2,330) | 1:692:B:LEU:HD12 | 1:689:B:VAL:HA | 3 | 0.14 | 0.04 | 0.12 |
| (2,330) | 1:692:B:LEU:HD13 | 1:689:B:VAL:HA | 3 | 0.14 | 0.04 | 0.12 |
| (2,890) | 1:746:A:ILE:H | 1:743:A:ASP:HB2 | 3 | 0.14 | 0.04 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,890) | 1:746:A:ILE:H | 1:743:A:ASP:HB3 | 3 | 0.14 | 0.04 | 0.12 |
| (2,1033) | 1:786:A:GLY:H | 1:782:A:VAL:HA | 3 | 0.14 | 0.03 | 0.15 |
| (2,1315) | 1:746:A:ILE:H | 1:743:A:ASP:HB2 | 3 | 0.14 | 0.04 | 0.12 |
| (2,1315) | 1:746:A:ILE:H | 1:743:A:ASP:HB3 | 3 | 0.14 | 0.04 | 0.12 |
| (2,1458) | 1:786:A:GLY:H | 1:782:A:VAL:HA | 3 | 0.14 | 0.03 | 0.15 |
| (1,17) | 1:798:B:ASN:O | 1:802:B:TYR:H | 3 | 0.13 | 0.01 | 0.14 |
| (1,103) | 1:798:B:ASN:O | 1:802:B:TYR:H | 3 | 0.13 | 0.01 | 0.14 |
| (1,189) | 1:798:B:ASN:O | 1:802:B:TYR:H | 3 | 0.13 | 0.01 | 0.14 |
| (2,336) | 1:693:B:ILE:HD11 | 1:697:B:ILE:H | 3 | 0.13 | 0.03 | 0.12 |
| (2,336) | 1:693:B:ILE:HD12 | 1:697:B:ILE:H | 3 | 0.13 | 0.03 | 0.12 |
| (2,336) | 1:693:B:ILE:HD13 | 1:697:B:ILE:H | 3 | 0.13 | 0.03 | 0.12 |
| (2,768) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB2 | 3 | 0.13 | 0.01 | 0.13 |
| (2,768) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB3 | 3 | 0.13 | 0.01 | 0.13 |
| (2,768) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB2 | 3 | 0.13 | 0.01 | 0.13 |
| (2,768) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB3 | 3 | 0.13 | 0.01 | 0.13 |
| (2,768) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB2 | 3 | 0.13 | 0.01 | 0.13 |
| (2,768) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB3 | 3 | 0.13 | 0.01 | 0.13 |
| (2,927) | 1:755:A:LEU:H | 1:752:A:SER:HA | 3 | 0.13 | 0.01 | 0.13 |
| (2,1193) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB2 | 3 | 0.13 | 0.01 | 0.13 |
| (2,1193) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB3 | 3 | 0.13 | 0.01 | 0.13 |
| (2,1193) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB2 | 3 | 0.13 | 0.01 | 0.13 |
| (2,1193) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB3 | 3 | 0.13 | 0.01 | 0.13 |
| (2,1193) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB2 | 3 | 0.13 | 0.01 | 0.13 |
| (2,1193) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB3 | 3 | 0.13 | 0.01 | 0.13 |
| (2,1352) | 1:755:A:LEU:H | 1:752:A:SER:HA | 3 | 0.13 | 0.01 | 0.13 |
| (1,12) | 1:795:B:TYR:O | 1:799:B:LEU:N | 3 | 0.12 | 0.01 | 0.12 |
| (1,98) | 1:795:B:TYR:O | 1:799:B:LEU:N | 3 | 0.12 | 0.01 | 0.12 |
| (1,184) | 1:795:B:TYR:O | 1:799:B:LEU:N | 3 | 0.12 | 0.01 | 0.12 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD11 | 3 | 0.12 | 0.01 | 0.11 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD12 | 3 | 0.12 | 0.01 | 0.11 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD13 | 3 | 0.12 | 0.01 | 0.11 |
| (1,69) | 1:834:B:GLN:O | 1:838:B:ARG:H | 3 | 0.12 | 0.02 | 0.11 |
| (1,155) | 1:834:B:GLN:O | 1:838:B:ARG:H | 3 | 0.12 | 0.02 | 0.11 |
| (1,241) | 1:834:B:GLN:O | 1:838:B:ARG:H | 3 | 0.12 | 0.02 | 0.11 |
| (2,541) | 1:775:B:LEU:H | 1:774:B:LEU:HA | 3 | 0.12 | 0.01 | 0.12 |
| (2,742) | 1:686:A:ILE:HD11 | 1:683:A:ARG:HA | 3 | 0.1 | 0.0 | 0.1 |
| (2,742) | 1:686:A:ILE:HD12 | 1:683:A:ARG:HA | 3 | 0.1 | 0.0 | 0.1 |
| (2,742) | 1:686:A:ILE:HD13 | 1:683:A:ARG:HA | 3 | 0.1 | 0.0 | 0.1 |
| (2,1167) | 1:686:A:ILE:HD11 | 1:683:A:ARG:HA | 3 | 0.1 | 0.0 | 0.1 |
| (2,1167) | 1:686:A:ILE:HD12 | 1:683:A:ARG:HA | 3 | 0.1 | 0.0 | 0.1 |
| (2,1167) | 1:686:A:ILE:HD13 | 1:683:A:ARG:HA | 3 | 0.1 | 0.0 | 0.1 |
| (2,445) | 1:710:B:GLN:H | 1:710:B:GLN:HB2 | 2 | 0.64 | 0.01 | 0.64 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,339) | 1:693:B:ILE:HG21 | 1:694:B:GLY:H | 2 | 0.52 | 0.01 | 0.52 |
| (2,339) | 1:693:B:ILE:HG22 | 1:694:B:GLY:H | 2 | 0.52 | 0.01 | 0.52 |
| (2,339) | 1:693:B:ILE:HG23 | 1:694:B:GLY:H | 2 | 0.52 | 0.01 | 0.52 |
| (2,491) | 1:753:B:LEU:HD11 | 1:757:B:TRP:HB2 | 2 | 0.44 | 0.11 | 0.44 |
| (2,491) | 1:753:B:LEU:HD11 | 1:757:B:TRP:HB3 | 2 | 0.44 | 0.11 | 0.44 |
| (2,491) | 1:753:B:LEU:HD12 | 1:757:B:TRP:HB2 | 2 | 0.44 | 0.11 | 0.44 |
| (2,491) | 1:753:B:LEU:HD12 | 1:757:B:TRP:HB3 | 2 | 0.44 | 0.11 | 0.44 |
| (2,491) | 1:753:B:LEU:HD13 | 1:757:B:TRP:HB2 | 2 | 0.44 | 0.11 | 0.44 |
| (2,491) | 1:753:B:LEU:HD13 | 1:757:B:TRP:HB3 | 2 | 0.44 | 0.11 | 0.44 |
| (2,882) | 1:740:A:ARG:H | 1:739:A:GLU:HA | 2 | 0.38 | 0.1 | 0.38 |
| (2,1307) | 1:740:A:ARG:H | 1:739:A:GLU:HA | 2 | 0.38 | 0.1 | 0.38 |
| (2,212) | 1:839:A:ALA:H | 1:808:A:LYS:HZ1 | 2 | 0.31 | 0.08 | 0.31 |
| (2,212) | 1:839:A:ALA:H | 1:808:A:LYS:HZ2 | 2 | 0.31 | 0.08 | 0.31 |
| (2,212) | 1:839:A:ALA:H | 1:808:A:LYS:HZ3 | 2 | 0.31 | 0.08 | 0.31 |
| (2,213) | 1:839:A:ALA:H | 1:808:A:LYS:HZ1 | 2 | 0.31 | 0.08 | 0.31 |
| (2,213) | 1:839:A:ALA:H | 1:808:A:LYS:HZ2 | 2 | 0.31 | 0.08 | 0.31 |
| (2,213) | 1:839:A:ALA:H | 1:808:A:LYS:HZ3 | 2 | 0.31 | 0.08 | 0.31 |
| (2,373) | 1:701:B:VAL:HG21 | 1:698:B:VAL:HA | 2 | 0.31 | 0.04 | 0.31 |
| (2,373) | 1:701:B:VAL:HG22 | 1:698:B:VAL:HA | 2 | 0.31 | 0.04 | 0.31 |
| (2,373) | 1:701:B:VAL:HG23 | 1:698:B:VAL:HA | 2 | 0.31 | 0.04 | 0.31 |
| (2,1051) | 1:817:A:ALA:H | 1:816:A:ASN:HB2 | 2 | 0.3 | 0.02 | 0.3 |
| (2,1051) | 1:817:A:ALA:H | 1:816:A:ASN:HB3 | 2 | 0.3 | 0.02 | 0.3 |
| (2,1476) | 1:817:A:ALA:H | 1:816:A:ASN:HB2 | 2 | 0.3 | 0.02 | 0.3 |
| (2,1476) | 1:817:A:ALA:H | 1:816:A:ASN:HB3 | 2 | 0.3 | 0.02 | 0.3 |
| (2,626) | 1:817:B:ALA:H | 1:816:B:ASN:HB2 | 2 | 0.3 | 0.08 | 0.3 |
| (2,626) | 1:817:B:ALA:H | 1:816:B:ASN:HB3 | 2 | 0.3 | 0.08 | 0.3 |
| (2,947) | 1:764:A:SER:H | 1:761:A:ARG:HA | 2 | 0.29 | 0.04 | 0.29 |
| (2,1372) | 1:764:A:SER:H | 1:761:A:ARG:HA | 2 | 0.29 | 0.04 | 0.29 |
| (2,499) | 1:754:B:ALA:HB1 | 1:753:B:LEU:HD21 | 2 | 0.29 | 0.16 | 0.29 |
| (2,499) | 1:754:B:ALA:HB1 | 1:753:B:LEU:HD22 | 2 | 0.29 | 0.16 | 0.29 |
| (2,499) | 1:754:B:ALA:HB1 | 1:753:B:LEU:HD23 | 2 | 0.29 | 0.16 | 0.29 |
| (2,499) | 1:754:B:ALA:HB2 | 1:753:B:LEU:HD21 | 2 | 0.29 | 0.16 | 0.29 |
| (2,499) | 1:754:B:ALA:HB2 | 1:753:B:LEU:HD22 | 2 | 0.29 | 0.16 | 0.29 |
| (2,499) | 1:754:B:ALA:HB2 | 1:753:B:LEU:HD23 | 2 | 0.29 | 0.16 | 0.29 |
| (2,499) | 1:754:B:ALA:HB3 | 1:753:B:LEU:HD21 | 2 | 0.29 | 0.16 | 0.29 |
| (2,499) | 1:754:B:ALA:HB3 | 1:753:B:LEU:HD22 | 2 | 0.29 | 0.16 | 0.29 |
| (2,499) | 1:754:B:ALA:HB3 | 1:753:B:LEU:HD23 | 2 | 0.29 | 0.16 | 0.29 |
| (2,760) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA2 | 2 | 0.28 | 0.12 | 0.28 |
| (2,760) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA3 | 2 | 0.28 | 0.12 | 0.28 |
| (2,760) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA2 | 2 | 0.28 | 0.12 | 0.28 |
| (2,760) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA3 | 2 | 0.28 | 0.12 | 0.28 |
| (2,760) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA2 | 2 | 0.28 | 0.12 | 0.28 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,760) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA3 | 2 | 0.28 | 0.12 | 0.28 |
| (2,1185) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA2 | 2 | 0.28 | 0.12 | 0.28 |
| (2,1185) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA3 | 2 | 0.28 | 0.12 | 0.28 |
| (2,1185) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA2 | 2 | 0.28 | 0.12 | 0.28 |
| (2,1185) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA3 | 2 | 0.28 | 0.12 | 0.28 |
| (2,1185) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA2 | 2 | 0.28 | 0.12 | 0.28 |
| (2,1185) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA3 | 2 | 0.28 | 0.12 | 0.28 |
| (2,438) | 1:709:B:ARG:HE | 1:709:B:ARG:H | 2 | 0.28 | 0.02 | 0.28 |
| (2,117) | 1:781:A:ILE:HD11 | 1:746:B:ILE:HG12 | 2 | 0.27 | 0.05 | 0.27 |
| (2,117) | 1:781:A:ILE:HD11 | 1:746:B:ILE:HG13 | 2 | 0.27 | 0.05 | 0.27 |
| (2,117) | 1:781:A:ILE:HD12 | 1:746:B:ILE:HG12 | 2 | 0.27 | 0.05 | 0.27 |
| (2,117) | 1:781:A:ILE:HD12 | 1:746:B:ILE:HG13 | 2 | 0.27 | 0.05 | 0.27 |
| (2,117) | 1:781:A:ILE:HD13 | 1:746:B:ILE:HG12 | 2 | 0.27 | 0.05 | 0.27 |
| (2,117) | 1:781:A:ILE:HD13 | 1:746:B:ILE:HG13 | 2 | 0.27 | 0.05 | 0.27 |
| (2,295) | 1:682:B:ILE:HG21 | 1:685:B:PHE:HD1 | 2 | 0.25 | 0.15 | 0.25 |
| (2,295) | 1:682:B:ILE:HG21 | 1:685:B:PHE:HD2 | 2 | 0.25 | 0.15 | 0.25 |
| (2,295) | 1:682:B:ILE:HG22 | 1:685:B:PHE:HD1 | 2 | 0.25 | 0.15 | 0.25 |
| (2,295) | 1:682:B:ILE:HG22 | 1:685:B:PHE:HD2 | 2 | 0.25 | 0.15 | 0.25 |
| (2,295) | 1:682:B:ILE:HG23 | 1:685:B:PHE:HD1 | 2 | 0.25 | 0.15 | 0.25 |
| (2,295) | 1:682:B:ILE:HG23 | 1:685:B:PHE:HD2 | 2 | 0.25 | 0.15 | 0.25 |
| (2,629) | 1:835:B:GLY:H | 1:834:B:GLN:HG2 | 2 | 0.24 | 0.04 | 0.24 |
| (2,629) | 1:835:B:GLY:H | 1:834:B:GLN:HG3 | 2 | 0.24 | 0.04 | 0.24 |
| (2,102) | 1:759:A:ASP:H | 1:709:B:ARG:HD2 | 2 | 0.24 | 0.11 | 0.24 |
| (2,102) | 1:759:A:ASP:H | 1:709:B:ARG:HD3 | 2 | 0.24 | 0.11 | 0.24 |
| (2,744) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD1 | 2 | 0.24 | 0.05 | 0.24 |
| (2,744) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD2 | 2 | 0.24 | 0.05 | 0.24 |
| (2,744) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD1 | 2 | 0.24 | 0.05 | 0.24 |
| (2,744) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD2 | 2 | 0.24 | 0.05 | 0.24 |
| (2,744) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD1 | 2 | 0.24 | 0.05 | 0.24 |
| (2,744) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD2 | 2 | 0.24 | 0.05 | 0.24 |
| (2,1169) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD1 | 2 | 0.24 | 0.05 | 0.24 |
| (2,1169) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD2 | 2 | 0.24 | 0.05 | 0.24 |
| (2,1169) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD1 | 2 | 0.24 | 0.05 | 0.24 |
| (2,1169) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD2 | 2 | 0.24 | 0.05 | 0.24 |
| (2,1169) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD1 | 2 | 0.24 | 0.05 | 0.24 |
| (2,1169) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD2 | 2 | 0.24 | 0.05 | 0.24 |
| (2,828) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD2 | 2 | 0.22 | 0.1 | 0.22 |
| (2,828) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD3 | 2 | 0.22 | 0.1 | 0.22 |
| (2,828) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD2 | 2 | 0.22 | 0.1 | 0.22 |
| (2,828) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD3 | 2 | 0.22 | 0.1 | 0.22 |
| (2,828) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD2 | 2 | 0.22 | 0.1 | 0.22 |
| (2,828) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD3 | 2 | 0.22 | 0.1 | 0.22 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1253) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD2 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1253) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD3 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1253) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD2 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1253) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD3 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1253) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD2 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1253) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD3 | 2 | 0.22 | 0.1 | 0.22 |
| (2,327) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HE1 | 2 | 0.22 | 0.1 | 0.22 |
| (2,327) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HE2 | 2 | 0.22 | 0.1 | 0.22 |
| (2,327) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HE1 | 2 | 0.22 | 0.1 | 0.22 |
| (2,327) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HE2 | 2 | 0.22 | 0.1 | 0.22 |
| (2,327) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HE1 | 2 | 0.22 | 0.1 | 0.22 |
| (2,327) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HE2 | 2 | 0.22 | 0.1 | 0.22 |
| (2,748) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD11 | 2 | 0.22 | 0.1 | 0.22 |
| (2,748) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD12 | 2 | 0.22 | 0.1 | 0.22 |
| (2,748) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD13 | 2 | 0.22 | 0.1 | 0.22 |
| (2,748) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD11 | 2 | 0.22 | 0.1 | 0.22 |
| (2,748) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD12 | 2 | 0.22 | 0.1 | 0.22 |
| (2,748) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD13 | 2 | 0.22 | 0.1 | 0.22 |
| (2,748) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD11 | 2 | 0.22 | 0.1 | 0.22 |
| (2,748) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD12 | 2 | 0.22 | 0.1 | 0.22 |
| (2,748) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD13 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1173) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD11 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1173) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD12 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1173) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD13 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1173) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD11 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1173) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD12 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1173) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD13 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1173) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD11 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1173) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD12 | 2 | 0.22 | 0.1 | 0.22 |
| (2,1173) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD13 | 2 | 0.22 | 0.1 | 0.22 |
| (2,755) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HA | 2 | 0.21 | 0.1 | 0.21 |
| (2,755) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HA | 2 | 0.21 | 0.1 | 0.21 |
| (2,755) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HA | 2 | 0.21 | 0.1 | 0.21 |
| (2,1180) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HA | 2 | 0.21 | 0.1 | 0.21 |
| (2,1180) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HA | 2 | 0.21 | 0.1 | 0.21 |
| (2,1180) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HA | 2 | 0.21 | 0.1 | 0.21 |
| (2,630) | 1:835:B:GLY:H | 1:834:B:GLN:HE21 | 2 | 0.2 | 0.08 | 0.2 |
| (2,630) | 1:835:B:GLY:H | 1:834:B:GLN:HE22 | 2 | 0.2 | 0.08 | 0.2 |
| (2,644) | 1:663:A:LEU:H | 1:664:A:ASP:H | 2 | 0.2 | 0.02 | 0.2 |
| (2,650) | 1:664:A:ASP:H | 1:663:A:LEU:H | 2 | 0.2 | 0.02 | 0.2 |
| (2,1069) | 1:663:A:LEU:H | 1:664:A:ASP:H | 2 | 0.2 | 0.02 | 0.2 |
| (2,1075) | 1:664:A:ASP:H | 1:663:A:LEU:H | 2 | 0.2 | 0.02 | 0.2 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,354) | 1:697:B:ILE:HG21 | 1:700:B:ALA:HB1 | 2 | 0.19 | 0.02 | 0.19 |
| (2,354) | 1:697:B:ILE:HG21 | 1:700:B:ALA:HB2 | 2 | 0.19 | 0.02 | 0.19 |
| (2,354) | 1:697:B:ILE:HG21 | 1:700:B:ALA:HB3 | 2 | 0.19 | 0.02 | 0.19 |
| (2,354) | 1:697:B:ILE:HG22 | 1:700:B:ALA:HB1 | 2 | 0.19 | 0.02 | 0.19 |
| (2,354) | 1:697:B:ILE:HG22 | 1:700:B:ALA:HB2 | 2 | 0.19 | 0.02 | 0.19 |
| (2,354) | 1:697:B:ILE:HG22 | 1:700:B:ALA:HB3 | 2 | 0.19 | 0.02 | 0.19 |
| (2,354) | 1:697:B:ILE:HG23 | 1:700:B:ALA:HB1 | 2 | 0.19 | 0.02 | 0.19 |
| (2,354) | 1:697:B:ILE:HG23 | 1:700:B:ALA:HB2 | 2 | 0.19 | 0.02 | 0.19 |
| (2,354) | 1:697:B:ILE:HG23 | 1:700:B:ALA:HB3 | 2 | 0.19 | 0.02 | 0.19 |
| (2,191) | 1:816:A:ASN:H | 1:831:A:GLU:HG2 | 2 | 0.18 | 0.08 | 0.18 |
| (2,191) | 1:816:A:ASN:H | 1:831:A:GLU:HG3 | 2 | 0.18 | 0.08 | 0.18 |
| (2,192) | 1:816:A:ASN:H | 1:831:A:GLU:HG2 | 2 | 0.18 | 0.08 | 0.18 |
| (2,192) | 1:816:A:ASN:H | 1:831:A:GLU:HG3 | 2 | 0.18 | 0.08 | 0.18 |
| (1,55) | 1:827:B:ASP:O | 1:831:B:GLU:H | 2 | 0.18 | 0.07 | 0.18 |
| (1,141) | 1:827:B:ASP:O | 1:831:B:GLU:H | 2 | 0.18 | 0.07 | 0.18 |
| (1,227) | 1:827:B:ASP:O | 1:831:B:GLU:H | 2 | 0.18 | 0.07 | 0.18 |
| (2,557) | 1:777:B:ILE:HD11 | 1:774:B:LEU:HA | 2 | 0.18 | 0.03 | 0.18 |
| (2,557) | 1:777:B:ILE:HD12 | 1:774:B:LEU:HA | 2 | 0.18 | 0.03 | 0.18 |
| (2,557) | 1:777:B:ILE:HD13 | 1:774:B:LEU:HA | 2 | 0.18 | 0.03 | 0.18 |
| (2,123) | 1:785:A:LEU:HD21 | 1:747:B:ARG:HD2 | 2 | 0.18 | 0.03 | 0.18 |
| (2,123) | 1:785:A:LEU:HD21 | 1:747:B:ARG:HD3 | 2 | 0.18 | 0.03 | 0.18 |
| (2,123) | 1:785:A:LEU:HD22 | 1:747:B:ARG:HD2 | 2 | 0.18 | 0.03 | 0.18 |
| (2,123) | 1:785:A:LEU:HD22 | 1:747:B:ARG:HD3 | 2 | 0.18 | 0.03 | 0.18 |
| (2,123) | 1:785:A:LEU:HD23 | 1:747:B:ARG:HD2 | 2 | 0.18 | 0.03 | 0.18 |
| (2,123) | 1:785:A:LEU:HD23 | 1:747:B:ARG:HD3 | 2 | 0.18 | 0.03 | 0.18 |
| (2,564) | 1:778:B:VAL:HG21 | 1:775:B:LEU:HA | 2 | 0.16 | 0.06 | 0.16 |
| (2,564) | 1:778:B:VAL:HG22 | 1:775:B:LEU:HA | 2 | 0.16 | 0.06 | 0.16 |
| (2,564) | 1:778:B:VAL:HG23 | 1:775:B:LEU:HA | 2 | 0.16 | 0.06 | 0.16 |
| (2,506) | 1:755:B:LEU:H | 1:756:B:ILE:H | 2 | 0.16 | 0.05 | 0.16 |
| (2,688) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB1 | 2 | 0.16 | 0.05 | 0.16 |
| (2,688) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB2 | 2 | 0.16 | 0.05 | 0.16 |
| (2,688) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB3 | 2 | 0.16 | 0.05 | 0.16 |
| (2,773) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH11 | 2 | 0.16 | 0.01 | 0.16 |
| (2,773) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH12 | 2 | 0.16 | 0.01 | 0.16 |
| (2,773) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH11 | 2 | 0.16 | 0.01 | 0.16 |
| (2,773) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH12 | 2 | 0.16 | 0.01 | 0.16 |
| (2,773) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH11 | 2 | 0.16 | 0.01 | 0.16 |
| (2,773) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH12 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1113) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB1 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1113) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB2 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1113) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB3 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1198) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH11 | 2 | 0.16 | 0.01 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1198) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH12 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1198) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH11 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1198) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH12 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1198) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH11 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1198) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH12 | 2 | 0.16 | 0.01 | 0.16 |
| (2,500) | 1:754:B:ALA:HB1 | 1:758:B:ASP:H | 2 | 0.16 | 0.02 | 0.16 |
| (2,500) | 1:754:B:ALA:HB2 | 1:758:B:ASP:H | 2 | 0.16 | 0.02 | 0.16 |
| (2,500) | 1:754:B:ALA:HB3 | 1:758:B:ASP:H | 2 | 0.16 | 0.02 | 0.16 |
| (2,509) | 1:758:B:ASP:H | 1:754:B:ALA:HB1 | 2 | 0.16 | 0.02 | 0.16 |
| (2,509) | 1:758:B:ASP:H | 1:754:B:ALA:HB2 | 2 | 0.16 | 0.02 | 0.16 |
| (2,509) | 1:758:B:ASP:H | 1:754:B:ALA:HB3 | 2 | 0.16 | 0.02 | 0.16 |
| (2,326) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HD1 | 2 | 0.16 | 0.01 | 0.16 |
| (2,326) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HD2 | 2 | 0.16 | 0.01 | 0.16 |
| (2,326) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HD1 | 2 | 0.16 | 0.01 | 0.16 |
| (2,326) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HD2 | 2 | 0.16 | 0.01 | 0.16 |
| (2,326) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HD1 | 2 | 0.16 | 0.01 | 0.16 |
| (2,326) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HD2 | 2 | 0.16 | 0.01 | 0.16 |
| (2,372) | 1:701:B:VAL:HG11 | 1:698:B:VAL:HA | 2 | 0.16 | 0.01 | 0.16 |
| (2,372) | 1:701:B:VAL:HG12 | 1:698:B:VAL:HA | 2 | 0.16 | 0.01 | 0.16 |
| (2,372) | 1:701:B:VAL:HG13 | 1:698:B:VAL:HA | 2 | 0.16 | 0.01 | 0.16 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD11 | 2 | 0.16 | 0.02 | 0.16 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD12 | 2 | 0.16 | 0.02 | 0.16 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD13 | 2 | 0.16 | 0.02 | 0.16 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD21 | 2 | 0.16 | 0.02 | 0.16 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD22 | 2 | 0.16 | 0.02 | 0.16 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD23 | 2 | 0.16 | 0.02 | 0.16 |
| (2,802) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD1 | 2 | 0.16 | 0.01 | 0.16 |
| (2,802) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD2 | 2 | 0.16 | 0.01 | 0.16 |
| (2,802) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD1 | 2 | 0.16 | 0.01 | 0.16 |
| (2,802) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD2 | 2 | 0.16 | 0.01 | 0.16 |
| (2,802) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD1 | 2 | 0.16 | 0.01 | 0.16 |
| (2,802) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD2 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD11 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD12 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD13 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD21 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD22 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD23 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD11 | 2 | 0.16 | 0.02 | 0.16 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD12 | 2 | 0.16 | 0.02 | 0.16 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD13 | 2 | 0.16 | 0.02 | 0.16 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD21 | 2 | 0.16 | 0.02 | 0.16 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD22 | 2 | 0.16 | 0.02 | 0.16 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD23 | 2 | 0.16 | 0.02 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD1 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD2 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD1 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD2 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD1 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD2 | 2 | 0.16 | 0.01 | 0.16 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD11 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD12 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD13 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD21 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD22 | 2 | 0.16 | 0.05 | 0.16 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD23 | 2 | 0.16 | 0.05 | 0.16 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD11 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD12 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD13 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD21 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD22 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD23 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD11 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD12 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD13 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD21 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD22 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD23 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD11 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD12 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD13 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD21 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD22 | 2 | 0.15 | 0.02 | 0.15 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD23 | 2 | 0.15 | 0.02 | 0.15 |
| (2,277) | 1:676:B:THR:HG21 | 1:669:B:LEU:HA | 2 | 0.15 | 0.02 | 0.15 |
| (2,277) | 1:676:B:THR:HG22 | 1:669:B:LEU:HA | 2 | 0.15 | 0.02 | 0.15 |
| (2,277) | 1:676:B:THR:HG23 | 1:669:B:LEU:HA | 2 | 0.15 | 0.02 | 0.15 |
| (2,288) | 1:679:B:LEU:HD11 | 1:678:B:TRP:HH2 | 2 | 0.15 | 0.02 | 0.15 |
| (2,288) | 1:679:B:LEU:HD12 | 1:678:B:TRP:HH2 | 2 | 0.15 | 0.02 | 0.15 |
| (2,288) | 1:679:B:LEU:HD13 | 1:678:B:TRP:HH2 | 2 | 0.15 | 0.02 | 0.15 |
| (2,288) | 1:679:B:LEU:HD21 | 1:678:B:TRP:HH2 | 2 | 0.15 | 0.02 | 0.15 |
| (2,288) | 1:679:B:LEU:HD22 | 1:678:B:TRP:HH2 | 2 | 0.15 | 0.02 | 0.15 |
| (2,288) | 1:679:B:LEU:HD23 | 1:678:B:TRP:HH2 | 2 | 0.15 | 0.02 | 0.15 |
| (2,338) | 1:693:B:ILE:HG21 | 1:693:B:ILE:H | 2 | 0.15 | 0.02 | 0.15 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,338) | 1:693:B:ILE:HG22 | 1:693:B:ILE:H | 2 | 0.15 | 0.02 | 0.15 |
| (2,338) | 1:693:B:ILE:HG23 | 1:693:B:ILE:H | 2 | 0.15 | 0.02 | 0.15 |
| (2,792) | 1:700:A:ALA:HB1 | 1:697:A:ILE:HA | 2 | 0.15 | 0.01 | 0.15 |
| (2,792) | 1:700:A:ALA:HB2 | 1:697:A:ILE:HA | 2 | 0.15 | 0.01 | 0.15 |
| (2,792) | 1:700:A:ALA:HB3 | 1:697:A:ILE:HA | 2 | 0.15 | 0.01 | 0.15 |
| (2,1217) | 1:700:A:ALA:HB1 | 1:697:A:ILE:HA | 2 | 0.15 | 0.01 | 0.15 |
| (2,1217) | 1:700:A:ALA:HB2 | 1:697:A:ILE:HA | 2 | 0.15 | 0.01 | 0.15 |
| (2,1217) | 1:700:A:ALA:HB3 | 1:697:A:ILE:HA | 2 | 0.15 | 0.01 | 0.15 |
| (2,746) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD11 | 2 | 0.15 | 0.04 | 0.15 |
| (2,746) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD12 | 2 | 0.15 | 0.04 | 0.15 |
| (2,746) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD13 | 2 | 0.15 | 0.04 | 0.15 |
| (2,746) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD11 | 2 | 0.15 | 0.04 | 0.15 |
| (2,746) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD12 | 2 | 0.15 | 0.04 | 0.15 |
| (2,746) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD13 | 2 | 0.15 | 0.04 | 0.15 |
| (2,746) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD11 | 2 | 0.15 | 0.04 | 0.15 |
| (2,746) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD12 | 2 | 0.15 | 0.04 | 0.15 |
| (2,746) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD13 | 2 | 0.15 | 0.04 | 0.15 |
| (2,1171) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD11 | 2 | 0.15 | 0.04 | 0.15 |
| (2,1171) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD12 | 2 | 0.15 | 0.04 | 0.15 |
| (2,1171) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD13 | 2 | 0.15 | 0.04 | 0.15 |
| (2,1171) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD11 | 2 | 0.15 | 0.04 | 0.15 |
| (2,1171) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD12 | 2 | 0.15 | 0.04 | 0.15 |
| (2,1171) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD13 | 2 | 0.15 | 0.04 | 0.15 |
| (2,1171) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD11 | 2 | 0.15 | 0.04 | 0.15 |
| (2,1171) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD12 | 2 | 0.15 | 0.04 | 0.15 |
| (2,1171) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD13 | 2 | 0.15 | 0.04 | 0.15 |
| (2,763) | 1:693:A:ILE:HG21 | 1:693:A:ILE:H | 2 | 0.14 | 0.03 | 0.14 |
| (2,763) | 1:693:A:ILE:HG22 | 1:693:A:ILE:H | 2 | 0.14 | 0.03 | 0.14 |
| (2,763) | 1:693:A:ILE:HG23 | 1:693:A:ILE:H | 2 | 0.14 | 0.03 | 0.14 |
| (2,1188) | 1:693:A:ILE:HG21 | 1:693:A:ILE:H | 2 | 0.14 | 0.03 | 0.14 |
| (2,1188) | 1:693:A:ILE:HG22 | 1:693:A:ILE:H | 2 | 0.14 | 0.03 | 0.14 |
| (2,1188) | 1:693:A:ILE:HG23 | 1:693:A:ILE:H | 2 | 0.14 | 0.03 | 0.14 |
| (2,810) | 1:704:A:LEU:H | 1:701:A:VAL:HA | 2 | 0.14 | 0.01 | 0.14 |
| (2,1012) | 1:783:A:GLU:H | 1:780:A:ARG:HA | 2 | 0.14 | 0.02 | 0.14 |
| (2,1235) | 1:704:A:LEU:H | 1:701:A:VAL:HA | 2 | 0.14 | 0.01 | 0.14 |
| (2,1437) | 1:783:A:GLU:H | 1:780:A:ARG:HA | 2 | 0.14 | 0.02 | 0.14 |
| (1,53) | 1:826:B:THR:O | 1:830:B:ILE:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,71) | 1:835:B:GLY:O | 1:839:B:ALA:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,139) | 1:826:B:THR:O | 1:830:B:ILE:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,157) | 1:835:B:GLY:O | 1:839:B:ALA:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,225) | 1:826:B:THR:O | 1:830:B:ILE:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,243) | 1:835:B:GLY:O | 1:839:B:ALA:H | 2 | 0.14 | 0.02 | 0.14 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,19) | 1:678:B:TRP:HE1 | 1:683:A:ARG:HE | 2 | 0.14 | 0.02 | 0.14 |
| (2,516) | 1:760:B:LEU:HD21 | 1:768:B:TYR:HE1 | 2 | 0.14 | 0.04 | 0.14 |
| (2,516) | 1:760:B:LEU:HD21 | 1:768:B:TYR:HE2 | 2 | 0.14 | 0.04 | 0.14 |
| (2,516) | 1:760:B:LEU:HD22 | 1:768:B:TYR:HE1 | 2 | 0.14 | 0.04 | 0.14 |
| (2,516) | 1:760:B:LEU:HD22 | 1:768:B:TYR:HE2 | 2 | 0.14 | 0.04 | 0.14 |
| (2,516) | 1:760:B:LEU:HD23 | 1:768:B:TYR:HE1 | 2 | 0.14 | 0.04 | 0.14 |
| (2,516) | 1:760:B:LEU:HD23 | 1:768:B:TYR:HE2 | 2 | 0.14 | 0.04 | 0.14 |
| (2,743) | 1:686:A:ILE:HD11 | 1:685:A:PHE:H | 2 | 0.14 | 0.02 | 0.14 |
| (2,743) | 1:686:A:ILE:HD12 | 1:685:A:PHE:H | 2 | 0.14 | 0.02 | 0.14 |
| (2,743) | 1:686:A:ILE:HD13 | 1:685:A:PHE:H | 2 | 0.14 | 0.02 | 0.14 |
| (2,1168) | 1:686:A:ILE:HD11 | 1:685:A:PHE:H | 2 | 0.14 | 0.02 | 0.14 |
| (2,1168) | 1:686:A:ILE:HD12 | 1:685:A:PHE:H | 2 | 0.14 | 0.02 | 0.14 |
| (2,1168) | 1:686:A:ILE:HD13 | 1:685:A:PHE:H | 2 | 0.14 | 0.02 | 0.14 |
| (1,41) | 1:810:B:SER:O | 1:814:B:LEU:H | 2 | 0.13 | 0.01 | 0.13 |
| (1,127) | 1:810:B:SER:O | 1:814:B:LEU:H | 2 | 0.13 | 0.01 | 0.13 |
| (1,213) | 1:810:B:SER:O | 1:814:B:LEU:H | 2 | 0.13 | 0.01 | 0.13 |
| (2,407) | 1:706:B:ASN:H | 1:703:B:SER:HA | 2 | 0.13 | 0.01 | 0.13 |
| (2,429) | 1:708:B:VAL:HG21 | 1:707:B:ARG:HD2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,429) | 1:708:B:VAL:HG21 | 1:707:B:ARG:HD3 | 2 | 0.13 | 0.02 | 0.13 |
| (2,429) | 1:708:B:VAL:HG22 | 1:707:B:ARG:HD2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,429) | 1:708:B:VAL:HG22 | 1:707:B:ARG:HD3 | 2 | 0.13 | 0.02 | 0.13 |
| (2,429) | 1:708:B:VAL:HG23 | 1:707:B:ARG:HD2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,429) | 1:708:B:VAL:HG23 | 1:707:B:ARG:HD3 | 2 | 0.13 | 0.02 | 0.13 |
| (2,713) | 1:679:A:LEU:HD11 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,713) | 1:679:A:LEU:HD12 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,713) | 1:679:A:LEU:HD13 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,713) | 1:679:A:LEU:HD21 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,713) | 1:679:A:LEU:HD22 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,713) | 1:679:A:LEU:HD23 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,1138) | 1:679:A:LEU:HD11 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,1138) | 1:679:A:LEU:HD12 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,1138) | 1:679:A:LEU:HD13 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,1138) | 1:679:A:LEU:HD21 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,1138) | 1:679:A:LEU:HD22 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,1138) | 1:679:A:LEU:HD23 | 1:678:A:TRP:HH2 | 2 | 0.13 | 0.02 | 0.13 |
| (2,301) | 1:684:B:ILE:HD11 | 1:681:B:TYR:HA | 2 | 0.12 | 0.02 | 0.12 |
| (2,301) | 1:684:B:ILE:HD12 | 1:681:B:TYR:HA | 2 | 0.12 | 0.02 | 0.12 |
| (2,301) | 1:684:B:ILE:HD13 | 1:681:B:TYR:HA | 2 | 0.12 | 0.02 | 0.12 |
| (2,358) | 1:698:B:VAL:HG11 | 1:702:B:LEU:HB2 | 2 | 0.12 | 0.01 | 0.12 |
| (2,358) | 1:698:B:VAL:HG11 | 1:702:B:LEU:HB3 | 2 | 0.12 | 0.01 | 0.12 |
| (2,358) | 1:698:B:VAL:HG12 | 1:702:B:LEU:HB2 | 2 | 0.12 | 0.01 | 0.12 |
| (2,358) | 1:698:B:VAL:HG12 | 1:702:B:LEU:HB3 | 2 | 0.12 | 0.01 | 0.12 |

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| Key | Atom-1 | Atom-2 | Models[1] | Mean (Å) | SD[1] (Å) | Median (Å) |
|---|---|---|---|---|---|---|
| (2,358) | 1:698:B:VAL:HG13 | 1:702:B:LEU:HB2 | 2 | 0.12 | 0.01 | 0.12 |
| (2,358) | 1:698:B:VAL:HG13 | 1:702:B:LEU:HB3 | 2 | 0.12 | 0.01 | 0.12 |
| (1,15) | 1:797:B:TRP:O | 1:801:B:GLN:H | 2 | 0.12 | 0.0 | 0.12 |
| (1,101) | 1:797:B:TRP:O | 1:801:B:GLN:H | 2 | 0.12 | 0.0 | 0.12 |
| (1,187) | 1:797:B:TRP:O | 1:801:B:GLN:H | 2 | 0.12 | 0.0 | 0.12 |
| (2,304) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HB2 | 2 | 0.12 | 0.01 | 0.12 |
| (2,304) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HB3 | 2 | 0.12 | 0.01 | 0.12 |
| (2,304) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HB2 | 2 | 0.12 | 0.01 | 0.12 |
| (2,304) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HB3 | 2 | 0.12 | 0.01 | 0.12 |
| (2,304) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HB2 | 2 | 0.12 | 0.01 | 0.12 |
| (2,304) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HB3 | 2 | 0.12 | 0.01 | 0.12 |
| (2,747) | 1:687:A:ILE:HG21 | 1:691:A:SER:HG | 2 | 0.12 | 0.02 | 0.12 |
| (2,747) | 1:687:A:ILE:HG22 | 1:691:A:SER:HG | 2 | 0.12 | 0.02 | 0.12 |
| (2,747) | 1:687:A:ILE:HG23 | 1:691:A:SER:HG | 2 | 0.12 | 0.02 | 0.12 |
| (2,1172) | 1:687:A:ILE:HG21 | 1:691:A:SER:HG | 2 | 0.12 | 0.02 | 0.12 |
| (2,1172) | 1:687:A:ILE:HG22 | 1:691:A:SER:HG | 2 | 0.12 | 0.02 | 0.12 |
| (2,1172) | 1:687:A:ILE:HG23 | 1:691:A:SER:HG | 2 | 0.12 | 0.02 | 0.12 |
| (1,67) | 1:833:B:VAL:O | 1:837:B:SER:H | 2 | 0.12 | 0.0 | 0.12 |
| (1,153) | 1:833:B:VAL:O | 1:837:B:SER:H | 2 | 0.12 | 0.0 | 0.12 |
| (1,239) | 1:833:B:VAL:O | 1:837:B:SER:H | 2 | 0.12 | 0.0 | 0.12 |
| (2,324) | 1:688:B:ILE:HG21 | 1:692:B:LEU:HG | 2 | 0.12 | 0.0 | 0.12 |
| (2,324) | 1:688:B:ILE:HG22 | 1:692:B:LEU:HG | 2 | 0.12 | 0.0 | 0.12 |
| (2,324) | 1:688:B:ILE:HG23 | 1:692:B:LEU:HG | 2 | 0.12 | 0.0 | 0.12 |
| (2,717) | 1:681:A:TYR:H | 1:682:A:ILE:H | 2 | 0.11 | 0.0 | 0.11 |
| (2,1142) | 1:681:A:TYR:H | 1:682:A:ILE:H | 2 | 0.11 | 0.0 | 0.11 |
| (2,263) | 1:670:B:TRP:HE1 | 1:667:B:ALA:HB1 | 2 | 0.11 | 0.0 | 0.11 |
| (2,263) | 1:670:B:TRP:HE1 | 1:667:B:ALA:HB2 | 2 | 0.11 | 0.0 | 0.11 |
| (2,263) | 1:670:B:TRP:HE1 | 1:667:B:ALA:HB3 | 2 | 0.11 | 0.0 | 0.11 |
| (2,776) | 1:696:A:ARG:H | 1:696:A:ARG:HE | 2 | 0.1 | 0.0 | 0.1 |
| (2,1201) | 1:696:A:ARG:H | 1:696:A:ARG:HE | 2 | 0.1 | 0.0 | 0.1 |

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

## 9.5 All violated distance restraints ⓘ

### 9.5.1 Histogram : Distribution of distance violations ⓘ

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.
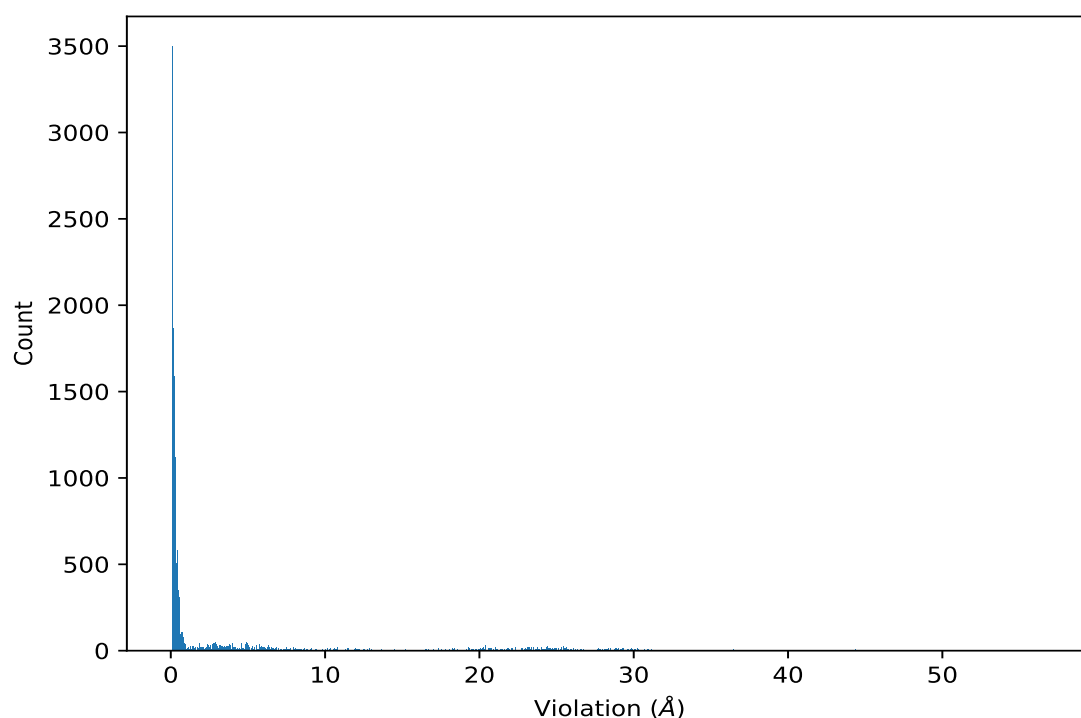
### 9.5.2   Table : All distance violations (i)

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) |
|---|---|---|---|---|
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 1 | 56.95 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 4 | 56.86 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 8 | 56.35 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 15 | 56.0 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 5 | 55.88 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 10 | 55.73 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 6 | 55.56 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 12 | 55.54 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 3 | 55.51 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 13 | 55.28 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 14 | 54.55 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 7 | 54.51 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 11 | 54.48 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 2 | 54.31 |
| (2,181) | 1:806:B:GLU:H | 1:772:A:ARG:HE | 9 | 53.78 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 3 | 52.62 |

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W O R L D W I D E

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 1 | 52.01 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 12 | 51.93 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 5 | 51.89 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 1 | 51.85 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 13 | 51.72 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 4 | 51.44 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 8 | 51.4 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 4 | 51.37 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 2 | 51.28 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 12 | 51.23 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 3 | 51.01 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 6 | 50.82 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 15 | 50.73 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 14 | 50.68 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 14 | 50.41 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 9 | 50.4 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 15 | 50.36 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 11 | 50.32 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 6 | 50.29 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 8 | 50.16 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 5 | 50.07 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 7 | 50.04 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 10 | 50.0 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 13 | 49.87 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 10 | 49.81 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 7 | 49.73 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 2 | 49.41 |
| (2,178) | 1:806:B:GLU:H | 1:771:A:LEU:HG | 11 | 49.28 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 1 | 49.11 |
| (2,182) | 1:806:A:GLU:H | 1:772:A:ARG:HE | 9 | 48.77 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 4 | 48.35 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 2 | 48.27 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 14 | 48.24 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 5 | 48.2 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 3 | 47.82 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 9 | 47.61 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 12 | 47.6 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 6 | 47.56 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 15 | 47.47 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 11 | 47.36 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 10 | 47.35 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 8 | 47.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 7 | 47.22 |
| (2,179) | 1:806:A:GLU:H | 1:771:A:LEU:HG | 13 | 46.85 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 8 | 45.51 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 8 | 45.51 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 3 | 44.99 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 3 | 44.99 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 14 | 44.82 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 14 | 44.82 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 1 | 44.78 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 1 | 44.78 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 2 | 44.52 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 2 | 44.52 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 12 | 44.48 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 12 | 44.48 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 4 | 44.39 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 4 | 44.39 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 13 | 44.38 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 13 | 44.38 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 6 | 44.35 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 6 | 44.35 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 7 | 44.14 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 7 | 44.14 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 9 | 44.05 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 9 | 44.05 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 15 | 44.02 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 15 | 44.02 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 10 | 43.72 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 10 | 43.72 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 5 | 43.52 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 5 | 43.52 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB2 | 11 | 42.99 |
| (2,140) | 1:771:A:LEU:H | 1:806:B:GLU:HB3 | 11 | 42.99 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 14 | 42.7 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 14 | 42.7 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 1 | 42.29 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 1 | 42.29 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 12 | 42.15 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 12 | 42.15 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 2 | 41.98 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 13 | 41.97 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 8 | 41.96 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 8 | 41.95 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 8 | 41.95 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 2 | 41.89 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 2 | 41.89 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 4 | 41.83 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 4 | 41.83 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 12 | 41.64 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 5 | 41.58 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 5 | 41.58 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 3 | 41.55 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 3 | 41.55 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 9 | 41.53 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 9 | 41.53 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 3 | 41.38 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 9 | 41.25 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 14 | 41.15 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 10 | 41.15 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 10 | 41.15 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 6 | 41.1 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 6 | 41.1 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 7 | 41.09 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 7 | 41.09 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 13 | 40.91 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 13 | 40.91 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 15 | 40.84 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 15 | 40.84 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 4 | 40.8 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB2 | 11 | 40.79 |
| (2,139) | 1:771:A:LEU:H | 1:806:A:GLU:HB3 | 11 | 40.79 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 6 | 40.59 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 7 | 40.51 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 1 | 40.5 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 10 | 40.41 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 5 | 40.34 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 15 | 39.42 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 7 | 39.33 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 14 | 39.0 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 9 | 38.98 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 8 | 38.36 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 1 | 38.01 |
| (2,175) | 1:803:B:TRP:HE1 | 1:764:A:SER:HG | 11 | 37.96 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 3 | 37.93 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 12 | 37.78 |

*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 2 | 37.76 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 5 | 37.65 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 6 | 37.34 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 4 | 37.24 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 13 | 37.2 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 4 | 37.09 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 4 | 37.09 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 8 | 36.59 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 8 | 36.59 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 7 | 36.56 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 7 | 36.56 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 11 | 36.47 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 10 | 36.45 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 12 | 36.45 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 12 | 36.45 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 13 | 36.45 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 13 | 36.45 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 9 | 36.23 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 9 | 36.23 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 14 | 36.12 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 14 | 36.12 |
| (2,176) | 1:803:A:TRP:HE1 | 1:764:A:SER:HG | 15 | 36.06 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 3 | 35.98 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 3 | 35.98 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 2 | 35.87 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 2 | 35.87 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 6 | 35.6 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 6 | 35.6 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 15 | 35.35 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 15 | 35.35 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 1 | 35.34 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 1 | 35.34 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 10 | 35.18 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 10 | 35.18 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 5 | 35.12 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 5 | 35.12 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB2 | 11 | 34.76 |
| (2,172) | 1:803:B:TRP:HE1 | 1:764:A:SER:HB3 | 11 | 34.76 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 7 | 34.36 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 7 | 34.36 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 14 | 33.55 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 14 | 33.55 |

*Continued on next page...*

*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 9 | 33.51 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 9 | 33.51 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 1 | 33.09 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 1 | 33.09 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 14 | 32.85 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 11 | 32.72 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 4 | 32.64 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 4 | 32.64 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 8 | 32.58 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 8 | 32.58 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 3 | 32.46 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 3 | 32.46 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 12 | 32.46 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 6 | 32.43 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 6 | 32.43 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 12 | 32.35 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 12 | 32.35 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 6 | 32.31 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 2 | 32.2 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 5 | 32.13 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 5 | 32.13 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 2 | 32.08 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 2 | 32.08 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 11 | 32.08 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 11 | 32.08 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 13 | 31.83 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 13 | 31.83 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 1 | 31.82 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 9 | 31.8 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 10 | 31.69 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 10 | 31.69 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 4 | 31.67 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 9 | 31.64 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 5 | 31.61 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 8 | 31.53 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 8 | 31.53 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 4 | 31.53 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 10 | 31.48 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 10 | 31.48 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 10 | 31.45 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 10 | 31.45 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 3 | 31.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 13 | 31.41 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 10 | 31.37 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 10 | 31.37 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 2 | 31.36 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 13 | 31.28 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 13 | 31.28 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 10 | 31.26 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 8 | 31.24 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 7 | 31.23 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 3 | 31.22 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 3 | 31.22 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 3 | 31.22 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB2 | 15 | 31.2 |
| (2,173) | 1:803:A:TRP:HE1 | 1:764:A:SER:HB3 | 15 | 31.2 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 11 | 31.19 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 11 | 31.19 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 11 | 31.19 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 11 | 31.19 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 5 | 31.17 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 5 | 31.17 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 11 | 31.14 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 11 | 31.14 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 12 | 31.14 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 13 | 31.05 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 13 | 31.05 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 8 | 31.01 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 8 | 31.01 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 7 | 31.01 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 15 | 30.99 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 8 | 30.98 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 8 | 30.98 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 14 | 30.97 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 14 | 30.97 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 5 | 30.95 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 5 | 30.95 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 5 | 30.92 |
| (2,133) | 1:756:A:ILE:H | 1:796:A:TRP:HE1 | 13 | 30.92 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 1 | 30.91 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 1 | 30.91 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 9 | 30.91 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 9 | 30.91 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 1 | 30.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 1 | 30.89 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 9 | 30.88 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 9 | 30.88 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 3 | 30.86 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 3 | 30.86 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 10 | 30.86 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 2 | 30.85 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 2 | 30.85 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 14 | 30.85 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 14 | 30.85 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 2 | 30.82 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 2 | 30.82 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 2 | 30.82 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 2 | 30.82 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 15 | 30.79 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 15 | 30.79 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 14 | 30.75 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 14 | 30.75 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 9 | 30.71 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 9 | 30.71 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 4 | 30.7 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 4 | 30.7 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 12 | 30.66 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 12 | 30.66 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 14 | 30.66 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 14 | 30.66 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 6 | 30.6 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 6 | 30.6 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 14 | 30.55 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 12 | 30.54 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 12 | 30.54 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 3 | 30.54 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 3 | 30.54 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 2 | 30.46 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 2 | 30.46 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 15 | 30.45 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 15 | 30.45 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 1 | 30.44 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 12 | 30.42 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 12 | 30.42 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 15 | 30.37 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 15 | 30.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 6 | 30.35 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 6 | 30.35 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 12 | 30.33 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 12 | 30.33 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 1 | 30.33 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 1 | 30.33 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 9 | 30.32 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 9 | 30.32 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 13 | 30.32 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 13 | 30.32 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 4 | 30.28 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 4 | 30.28 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 5 | 30.28 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 5 | 30.28 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 8 | 30.28 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 8 | 30.28 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 8 | 30.28 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 13 | 30.27 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 13 | 30.27 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 13 | 30.27 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 6 | 30.24 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 6 | 30.24 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 15 | 30.23 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 15 | 30.23 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 15 | 30.23 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 12 | 30.22 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 12 | 30.22 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 7 | 30.22 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 7 | 30.22 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 7 | 30.22 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 4 | 30.21 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 4 | 30.21 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 6 | 30.21 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 6 | 30.21 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 15 | 30.17 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 3 | 30.15 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 3 | 30.15 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 3 | 30.15 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 3 | 30.15 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 3 | 30.15 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 13 | 30.12 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 13 | 30.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 6 | 30.09 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 6 | 30.09 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 9 | 30.09 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 9 | 30.09 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG12 | 7 | 30.06 |
| (2,146) | 1:782:A:VAL:H | 1:746:A:ILE:HG13 | 7 | 30.06 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 7 | 30.04 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 7 | 30.04 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 6 | 30.04 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 6 | 30.04 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 6 | 30.04 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 6 | 30.04 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 5 | 30.01 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 5 | 30.01 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 13 | 29.96 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 13 | 29.96 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 1 | 29.93 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 1 | 29.93 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 5 | 29.92 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 5 | 29.92 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 2 | 29.91 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 2 | 29.91 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 8 | 29.89 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 8 | 29.89 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 8 | 29.88 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 4 | 29.87 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 4 | 29.87 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 8 | 29.85 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 8 | 29.85 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 7 | 29.84 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 7 | 29.84 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 15 | 29.84 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 15 | 29.84 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 11 | 29.84 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 11 | 29.84 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 10 | 29.84 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 10 | 29.84 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 10 | 29.84 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 13 | 29.83 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 13 | 29.83 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 7 | 29.82 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 7 | 29.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 2 | 29.8 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 2 | 29.8 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 4 | 29.8 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 4 | 29.8 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG12 | 7 | 29.78 |
| (2,143) | 1:781:A:ILE:H | 1:746:A:ILE:HG13 | 7 | 29.78 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 7 | 29.78 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 7 | 29.78 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB2 | 15 | 29.75 |
| (2,152) | 1:792:A:ALA:H | 1:752:A:SER:HB3 | 15 | 29.75 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 3 | 29.75 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 3 | 29.75 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 2 | 29.73 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 2 | 29.73 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 3 | 29.69 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 3 | 29.69 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 5 | 29.68 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 5 | 29.68 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 11 | 29.67 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 11 | 29.67 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 1 | 29.65 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 1 | 29.65 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 14 | 29.64 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 14 | 29.64 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 10 | 29.6 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 10 | 29.6 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 4 | 29.58 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 4 | 29.58 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 12 | 29.55 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 12 | 29.55 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 12 | 29.55 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 5 | 29.49 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 5 | 29.49 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 5 | 29.49 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 4 | 29.46 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 4 | 29.46 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 9 | 29.43 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 9 | 29.43 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 15 | 29.42 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 15 | 29.42 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 10 | 29.39 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 10 | 29.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 2 | 29.35 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 2 | 29.35 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 2 | 29.35 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 10 | 29.34 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 10 | 29.34 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 14 | 29.34 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 14 | 29.34 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 8 | 29.33 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 8 | 29.33 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 11 | 29.32 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 11 | 29.32 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 6 | 29.32 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 6 | 29.32 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 10 | 29.3 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 10 | 29.3 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 10 | 29.3 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 12 | 29.28 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 12 | 29.28 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 11 | 29.26 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 11 | 29.26 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 7 | 29.26 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 7 | 29.26 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 7 | 29.26 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 7 | 29.26 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 10 | 29.25 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 10 | 29.25 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 1 | 29.25 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 1 | 29.25 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 1 | 29.25 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 4 | 29.24 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 4 | 29.24 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 12 | 29.23 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 12 | 29.23 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD2 | 11 | 29.21 |
| (2,137) | 1:756:A:ILE:H | 1:794:B:LYS:HD3 | 11 | 29.21 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 12 | 29.21 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 12 | 29.21 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 11 | 29.21 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 11 | 29.21 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 11 | 29.21 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 5 | 29.2 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 5 | 29.2 |

*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 2 | 29.18 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 2 | 29.18 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 14 | 29.17 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 14 | 29.17 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 14 | 29.17 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 8 | 29.08 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 8 | 29.08 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 8 | 29.08 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 9 | 29.04 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 9 | 29.04 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 1 | 29.04 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 1 | 29.04 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 9 | 29.03 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 9 | 29.03 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 9 | 29.03 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 15 | 29.02 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 15 | 29.02 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 13 | 29.0 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 13 | 29.0 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 13 | 29.0 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 4 | 29.0 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 4 | 29.0 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 4 | 29.0 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 14 | 28.98 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 14 | 28.98 |
| (2,134) | 1:756:A:ILE:H | 1:796:B:TRP:HE1 | 11 | 28.98 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 14 | 28.97 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 14 | 28.97 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 6 | 28.96 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 6 | 28.96 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 4 | 28.95 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 4 | 28.95 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 9 | 28.91 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 9 | 28.91 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 11 | 28.9 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 11 | 28.9 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 1 | 28.87 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 1 | 28.87 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 3 | 28.87 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 3 | 28.87 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 3 | 28.87 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 9 | 28.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 9 | 28.85 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 6 | 28.85 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 6 | 28.85 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 13 | 28.85 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 13 | 28.85 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG21 | 11 | 28.85 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG22 | 11 | 28.85 |
| (2,109) | 1:781:B:ILE:H | 1:746:A:ILE:HG23 | 11 | 28.85 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 2 | 28.84 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 2 | 28.84 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 1 | 28.83 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 1 | 28.83 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 1 | 28.83 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 12 | 28.82 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 12 | 28.82 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 3 | 28.81 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 3 | 28.81 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB2 | 8 | 28.8 |
| (2,151) | 1:792:B:ALA:H | 1:752:A:SER:HB3 | 8 | 28.8 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 13 | 28.8 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 13 | 28.8 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 1 | 28.79 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 1 | 28.79 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 5 | 28.78 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 5 | 28.78 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 13 | 28.77 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 13 | 28.77 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 4 | 28.76 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 4 | 28.76 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 2 | 28.75 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 2 | 28.75 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 14 | 28.73 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 14 | 28.73 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 10 | 28.72 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 10 | 28.72 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 10 | 28.72 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 15 | 28.72 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 15 | 28.72 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 5 | 28.71 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 5 | 28.71 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 14 | 28.68 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 14 | 28.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 14 | 28.68 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG12 | 1 | 28.63 |
| (2,144) | 1:781:B:ILE:H | 1:746:A:ILE:HG13 | 1 | 28.63 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 2 | 28.61 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 2 | 28.61 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 14 | 28.58 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 14 | 28.58 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 15 | 28.55 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 15 | 28.55 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 3 | 28.53 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 3 | 28.53 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 2 | 28.53 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 2 | 28.53 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 2 | 28.53 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 1 | 28.51 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 1 | 28.51 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 1 | 28.47 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 1 | 28.47 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 3 | 28.47 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 3 | 28.47 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 7 | 28.46 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 7 | 28.46 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 15 | 28.46 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 15 | 28.46 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 12 | 28.46 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 12 | 28.46 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 12 | 28.46 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 12 | 28.46 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 12 | 28.46 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 3 | 28.41 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 3 | 28.41 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 15 | 28.41 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 15 | 28.41 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 15 | 28.41 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 2 | 28.4 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 2 | 28.4 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 9 | 28.39 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 9 | 28.39 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 8 | 28.36 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 8 | 28.36 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 3 | 28.35 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 3 | 28.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 12 | 28.35 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 12 | 28.35 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 7 | 28.35 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 7 | 28.35 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 8 | 28.34 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 8 | 28.34 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 8 | 28.34 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 12 | 28.33 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 12 | 28.33 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 4 | 28.32 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 4 | 28.32 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 6 | 28.31 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 6 | 28.31 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 6 | 28.31 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 8 | 28.28 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 8 | 28.28 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 15 | 28.27 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 15 | 28.27 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 6 | 28.27 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 6 | 28.27 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 11 | 28.25 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 11 | 28.25 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 9 | 28.24 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 9 | 28.24 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 9 | 28.24 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 3 | 28.24 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 3 | 28.24 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 6 | 28.23 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 6 | 28.23 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 8 | 28.2 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 8 | 28.2 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 10 | 28.19 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 10 | 28.19 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 1 | 28.18 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 1 | 28.18 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 6 | 28.18 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 6 | 28.18 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 7 | 28.17 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 7 | 28.17 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 7 | 28.17 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 5 | 28.13 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 5 | 28.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 14 | 28.13 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 14 | 28.13 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 13 | 28.12 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 13 | 28.12 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 14 | 28.11 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 14 | 28.11 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 14 | 28.11 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 6 | 28.1 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 6 | 28.1 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 13 | 28.0 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 13 | 28.0 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 15 | 28.0 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 15 | 28.0 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 15 | 28.0 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 6 | 27.99 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 6 | 27.99 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 6 | 27.99 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 4 | 27.99 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 4 | 27.99 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 4 | 27.99 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD2 | 10 | 27.93 |
| (2,136) | 1:756:A:ILE:H | 1:794:A:LYS:HD3 | 10 | 27.93 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD2 | 5 | 27.87 |
| (2,103) | 1:763:B:LEU:H | 1:742:A:ARG:HD3 | 5 | 27.87 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 14 | 27.84 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 14 | 27.84 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG21 | 5 | 27.83 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG22 | 5 | 27.83 |
| (2,110) | 1:781:A:ILE:H | 1:746:A:ILE:HG23 | 5 | 27.83 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 7 | 27.8 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 7 | 27.8 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 6 | 27.79 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 6 | 27.79 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 11 | 27.79 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 11 | 27.79 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 11 | 27.79 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 10 | 27.76 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 10 | 27.76 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 9 | 27.76 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 9 | 27.76 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 3 | 27.74 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 3 | 27.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 11 | 27.73 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 11 | 27.73 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 11 | 27.73 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 11 | 27.73 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 4 | 27.73 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 4 | 27.73 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 4 | 27.73 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 4 | 27.72 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 4 | 27.72 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 8 | 27.71 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 8 | 27.71 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 2 | 27.69 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 2 | 27.69 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 2 | 27.69 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 8 | 27.69 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 8 | 27.69 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 8 | 27.69 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 9 | 27.65 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 9 | 27.65 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 5 | 27.62 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 5 | 27.62 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 4 | 27.61 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 4 | 27.61 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 8 | 27.6 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 8 | 27.6 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB2 | 11 | 27.59 |
| (2,128) | 1:756:A:ILE:H | 1:795:B:TYR:HB3 | 11 | 27.59 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 2 | 27.55 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 2 | 27.55 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 1 | 27.53 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 1 | 27.53 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 7 | 27.51 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 7 | 27.51 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 12 | 27.42 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 12 | 27.42 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 12 | 27.42 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 12 | 27.38 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 12 | 27.38 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 10 | 27.38 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 10 | 27.38 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 10 | 27.38 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 15 | 27.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 15 | 27.26 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 13 | 27.24 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 13 | 27.24 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 13 | 27.24 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 10 | 27.22 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 10 | 27.22 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB2 | 13 | 27.19 |
| (2,127) | 1:756:A:ILE:H | 1:795:A:TYR:HB3 | 13 | 27.19 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 6 | 27.16 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 6 | 27.16 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 6 | 27.16 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 9 | 27.14 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 9 | 27.14 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG12 | 14 | 27.12 |
| (2,145) | 1:782:B:VAL:H | 1:746:A:ILE:HG13 | 14 | 27.12 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 8 | 27.07 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 8 | 27.07 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 3 | 27.04 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 3 | 27.04 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 3 | 27.04 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 7 | 26.99 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 7 | 26.99 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 5 | 26.87 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 5 | 26.87 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD1 | 10 | 26.86 |
| (2,131) | 1:756:A:ILE:H | 1:795:B:TYR:HD2 | 10 | 26.86 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 9 | 26.78 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 9 | 26.78 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 9 | 26.78 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 10 | 26.74 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 10 | 26.74 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 15 | 26.72 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 15 | 26.72 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 15 | 26.72 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 15 | 26.71 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 15 | 26.71 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 15 | 26.71 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 14 | 26.7 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 14 | 26.7 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 14 | 26.7 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 9 | 26.65 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 9 | 26.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 9 | 26.65 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 12 | 26.65 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 12 | 26.65 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 12 | 26.65 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 15 | 26.59 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 15 | 26.59 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 7 | 26.59 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 7 | 26.59 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 7 | 26.59 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 7 | 26.58 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 7 | 26.58 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 7 | 26.58 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 11 | 26.56 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 11 | 26.56 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 11 | 26.56 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD1 | 13 | 26.48 |
| (2,130) | 1:756:A:ILE:H | 1:795:A:TYR:HD2 | 13 | 26.48 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 10 | 26.43 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 10 | 26.43 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 10 | 26.43 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 11 | 26.4 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 11 | 26.4 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 11 | 26.4 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 11 | 26.4 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 11 | 26.4 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 11 | 26.4 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 1 | 26.38 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 1 | 26.38 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 1 | 26.38 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 2 | 26.33 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 2 | 26.33 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 2 | 26.33 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 13 | 26.23 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 13 | 26.23 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 13 | 26.23 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 8 | 26.21 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 8 | 26.21 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 8 | 26.21 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 8 | 26.21 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 8 | 26.21 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 8 | 26.21 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 3 | 26.09 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 3 | 26.09 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 3 | 26.09 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 8 | 26.07 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 8 | 26.07 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 8 | 26.07 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 8 | 26.07 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 8 | 26.07 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 8 | 26.07 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 14 | 26.06 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 14 | 26.06 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 14 | 26.06 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 2 | 26.02 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 2 | 26.02 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 2 | 26.02 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 5 | 25.99 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 5 | 25.99 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 5 | 25.99 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 10 | 25.98 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 10 | 25.98 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 10 | 25.98 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 10 | 25.98 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 10 | 25.98 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 10 | 25.98 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 12 | 25.93 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 12 | 25.93 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 12 | 25.93 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 5 | 25.93 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 5 | 25.93 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 5 | 25.93 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 5 | 25.89 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 5 | 25.89 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 5 | 25.89 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 3 | 25.79 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 3 | 25.79 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 3 | 25.79 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 3 | 25.77 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 3 | 25.77 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 3 | 25.77 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 3 | 25.77 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 3 | 25.77 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 3 | 25.77 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 10 | 25.71 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 10 | 25.71 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 10 | 25.71 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 10 | 25.71 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 10 | 25.71 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 10 | 25.71 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 13 | 25.7 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 13 | 25.7 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 13 | 25.7 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 13 | 25.7 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 13 | 25.7 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 13 | 25.7 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 1 | 25.69 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 1 | 25.69 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 1 | 25.69 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 4 | 25.68 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 4 | 25.68 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 15 | 25.66 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 15 | 25.66 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 15 | 25.66 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 15 | 25.66 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 15 | 25.66 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 15 | 25.66 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 13 | 25.66 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 13 | 25.66 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 13 | 25.66 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 1 | 25.65 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 1 | 25.65 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 1 | 25.65 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 1 | 25.65 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 1 | 25.65 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 1 | 25.65 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 7 | 25.65 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 7 | 25.65 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 7 | 25.65 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 7 | 25.65 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 7 | 25.65 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 7 | 25.65 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 8 | 25.62 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 8 | 25.62 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 8 | 25.62 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 4 | 25.58 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 4 | 25.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 4 | 25.58 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 4 | 25.58 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 4 | 25.58 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 4 | 25.58 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 9 | 25.57 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 9 | 25.57 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 9 | 25.57 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 1 | 25.57 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 1 | 25.57 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 1 | 25.57 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 15 | 25.55 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 15 | 25.55 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 15 | 25.55 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 11 | 25.53 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 11 | 25.53 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 11 | 25.53 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 11 | 25.53 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 11 | 25.53 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 11 | 25.53 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 9 | 25.52 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 9 | 25.52 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 9 | 25.52 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 9 | 25.52 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 9 | 25.52 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 9 | 25.52 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 11 | 25.51 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 11 | 25.51 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 11 | 25.51 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 12 | 25.49 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 12 | 25.49 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 12 | 25.49 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 12 | 25.49 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 12 | 25.49 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 12 | 25.49 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 6 | 25.49 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 6 | 25.49 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 6 | 25.49 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 6 | 25.49 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 6 | 25.49 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 6 | 25.49 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 2 | 25.47 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 2 | 25.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 2 | 25.47 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 2 | 25.47 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 2 | 25.47 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 2 | 25.47 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 5 | 25.46 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 5 | 25.46 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 5 | 25.46 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 5 | 25.46 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 5 | 25.46 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 5 | 25.46 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 12 | 25.42 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 12 | 25.42 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 12 | 25.42 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 12 | 25.42 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 12 | 25.42 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 12 | 25.42 |
| (2,113) | 1:781:A:ILE:HD11 | 1:743:A:ASP:HA | 7 | 25.38 |
| (2,113) | 1:781:A:ILE:HD12 | 1:743:A:ASP:HA | 7 | 25.38 |
| (2,113) | 1:781:A:ILE:HD13 | 1:743:A:ASP:HA | 7 | 25.38 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 13 | 25.34 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 13 | 25.34 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 13 | 25.34 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 13 | 25.34 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 13 | 25.34 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 13 | 25.34 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 7 | 25.32 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 7 | 25.32 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 7 | 25.32 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 10 | 25.31 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 10 | 25.31 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 10 | 25.31 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 10 | 25.31 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 10 | 25.31 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 10 | 25.31 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 5 | 25.3 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 5 | 25.3 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 5 | 25.3 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 14 | 25.3 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 14 | 25.3 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 14 | 25.3 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 8 | 25.29 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 8 | 25.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 8 | 25.29 |
| (2,125) | 1:785:A:LEU:HD21 | 1:749:A:VAL:HB | 4 | 25.26 |
| (2,125) | 1:785:A:LEU:HD22 | 1:749:A:VAL:HB | 4 | 25.26 |
| (2,125) | 1:785:A:LEU:HD23 | 1:749:A:VAL:HB | 4 | 25.26 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 9 | 25.15 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 9 | 25.15 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 9 | 25.15 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 9 | 25.15 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 9 | 25.15 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 9 | 25.15 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 6 | 25.13 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 6 | 25.13 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 6 | 25.13 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 6 | 25.13 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 6 | 25.13 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 6 | 25.13 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 4 | 25.01 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 4 | 25.01 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 4 | 25.01 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 9 | 25.01 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 9 | 25.01 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 9 | 25.01 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 9 | 25.01 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 9 | 25.01 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 9 | 25.01 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 7 | 24.99 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 7 | 24.99 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 7 | 24.99 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 7 | 24.99 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 7 | 24.99 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 7 | 24.99 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 6 | 24.99 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 6 | 24.99 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 6 | 24.99 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 11 | 24.97 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 11 | 24.97 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 11 | 24.97 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 3 | 24.93 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 3 | 24.93 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 3 | 24.93 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 3 | 24.93 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 3 | 24.93 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 3 | 24.93 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 9 | 24.92 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 9 | 24.92 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 9 | 24.92 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 3 | 24.92 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 3 | 24.92 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 3 | 24.92 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 3 | 24.92 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 3 | 24.92 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 3 | 24.92 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 5 | 24.89 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 5 | 24.89 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 5 | 24.89 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 5 | 24.89 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 5 | 24.89 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 5 | 24.89 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 10 | 24.89 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 10 | 24.89 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 10 | 24.89 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 9 | 24.89 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 9 | 24.89 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 9 | 24.89 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 8 | 24.89 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 8 | 24.89 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 4 | 24.87 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 4 | 24.87 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 4 | 24.87 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 4 | 24.82 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 4 | 24.82 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 4 | 24.82 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 4 | 24.82 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 4 | 24.82 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 4 | 24.82 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 11 | 24.78 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 11 | 24.78 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 11 | 24.78 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 11 | 24.78 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 11 | 24.78 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 11 | 24.78 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 14 | 24.74 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 14 | 24.74 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 14 | 24.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 14 | 24.74 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 14 | 24.74 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 14 | 24.74 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 2 | 24.71 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 2 | 24.71 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 2 | 24.71 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 2 | 24.71 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 2 | 24.71 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 2 | 24.71 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 13 | 24.7 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 13 | 24.7 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 13 | 24.7 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 1 | 24.67 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 1 | 24.67 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 1 | 24.67 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 14 | 24.65 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 14 | 24.65 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 14 | 24.65 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 14 | 24.65 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 14 | 24.65 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 14 | 24.65 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 6 | 24.64 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 6 | 24.64 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 6 | 24.64 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 6 | 24.64 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 6 | 24.64 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 6 | 24.64 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 1 | 24.64 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 1 | 24.64 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 13 | 24.62 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 13 | 24.62 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 13 | 24.62 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 15 | 24.53 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 15 | 24.53 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 15 | 24.53 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 15 | 24.53 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 15 | 24.53 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 15 | 24.53 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 8 | 24.51 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 8 | 24.51 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 8 | 24.51 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 8 | 24.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 8 | 24.51 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 8 | 24.51 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 14 | 24.49 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 14 | 24.49 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 14 | 24.49 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 10 | 24.49 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 10 | 24.49 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 2 | 24.46 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 2 | 24.46 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 2 | 24.46 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 6 | 24.46 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 6 | 24.46 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 6 | 24.46 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 9 | 24.46 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 9 | 24.46 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 6 | 24.45 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 6 | 24.45 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 6 | 24.45 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 6 | 24.45 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 6 | 24.45 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 6 | 24.45 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 13 | 24.45 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 13 | 24.45 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 2 | 24.44 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 2 | 24.44 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 2 | 24.44 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 2 | 24.44 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 2 | 24.44 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 2 | 24.44 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 5 | 24.43 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 5 | 24.43 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 5 | 24.43 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 5 | 24.43 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 5 | 24.43 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 5 | 24.43 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 13 | 24.41 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 13 | 24.41 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 13 | 24.41 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 13 | 24.41 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 13 | 24.41 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 13 | 24.41 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 12 | 24.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 12 | 24.39 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 12 | 24.39 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 12 | 24.39 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 12 | 24.39 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 12 | 24.39 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 7 | 24.39 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 7 | 24.39 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 15 | 24.36 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 15 | 24.36 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 15 | 24.36 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 15 | 24.36 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 15 | 24.36 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 15 | 24.36 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 14 | 24.36 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 14 | 24.36 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 14 | 24.36 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 14 | 24.36 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 14 | 24.36 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 14 | 24.36 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 1 | 24.33 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 1 | 24.33 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 1 | 24.33 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 7 | 24.32 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 7 | 24.32 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 7 | 24.32 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 3 | 24.32 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 3 | 24.32 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 3 | 24.32 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 11 | 24.31 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 11 | 24.31 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD11 | 1 | 24.26 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD12 | 1 | 24.26 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD13 | 1 | 24.26 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD21 | 1 | 24.26 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD22 | 1 | 24.26 |
| (2,155) | 1:792:A:ALA:H | 1:753:A:LEU:HD23 | 1 | 24.26 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 12 | 24.23 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 12 | 24.23 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 7 | 24.21 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 7 | 24.21 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 7 | 24.21 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 7 | 24.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 7 | 24.21 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 7 | 24.21 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 3 | 24.21 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 3 | 24.21 |
| (2,124) | 1:785:B:LEU:HD21 | 1:749:A:VAL:HB | 4 | 24.19 |
| (2,124) | 1:785:B:LEU:HD22 | 1:749:A:VAL:HB | 4 | 24.19 |
| (2,124) | 1:785:B:LEU:HD23 | 1:749:A:VAL:HB | 4 | 24.19 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 1 | 24.18 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 1 | 24.18 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 1 | 24.18 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 1 | 24.18 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 1 | 24.18 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 1 | 24.18 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 14 | 24.1 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 14 | 24.1 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 4 | 24.08 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 4 | 24.08 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 4 | 24.08 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 4 | 24.08 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 4 | 24.08 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 4 | 24.08 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 2 | 24.08 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 2 | 24.08 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 11 | 24.06 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 11 | 24.06 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 1 | 24.04 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 1 | 24.04 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 1 | 24.04 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 11 | 24.03 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 11 | 24.03 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 11 | 24.03 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 10 | 24.03 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 10 | 24.03 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 10 | 24.03 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 10 | 24.03 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 10 | 24.03 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 10 | 24.03 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD2 | 2 | 24.03 |
| (2,107) | 1:777:A:ILE:HD11 | 1:742:A:ARG:HD3 | 2 | 24.03 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD2 | 2 | 24.03 |
| (2,107) | 1:777:A:ILE:HD12 | 1:742:A:ARG:HD3 | 2 | 24.03 |
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD2 | 2 | 24.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,107) | 1:777:A:ILE:HD13 | 1:742:A:ARG:HD3 | 2 | 24.03 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 2 | 23.98 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 2 | 23.98 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 2 | 23.98 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 15 | 23.89 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 15 | 23.89 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 15 | 23.89 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 15 | 23.89 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 15 | 23.89 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 15 | 23.89 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 5 | 23.86 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 5 | 23.86 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 11 | 23.81 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 11 | 23.81 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 11 | 23.81 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 11 | 23.81 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 11 | 23.81 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 11 | 23.81 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD11 | 4 | 23.78 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD12 | 4 | 23.78 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD13 | 4 | 23.78 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD21 | 4 | 23.78 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD22 | 4 | 23.78 |
| (2,154) | 1:792:B:ALA:H | 1:753:A:LEU:HD23 | 4 | 23.78 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 7 | 23.76 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 7 | 23.76 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 7 | 23.76 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 7 | 23.76 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 7 | 23.76 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 7 | 23.76 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 10 | 23.75 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 10 | 23.75 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 10 | 23.75 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 10 | 23.75 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 10 | 23.75 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 10 | 23.75 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 6 | 23.74 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 6 | 23.74 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 6 | 23.74 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 2 | 23.72 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 2 | 23.72 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 2 | 23.72 |

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*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 2 | 23.72 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 2 | 23.72 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 2 | 23.72 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 15 | 23.72 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 15 | 23.72 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 2 | 23.66 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 2 | 23.66 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 2 | 23.66 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 5 | 23.62 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 5 | 23.62 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 15 | 23.61 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 15 | 23.61 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 15 | 23.61 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 15 | 23.61 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 15 | 23.61 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 15 | 23.61 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 5 | 23.57 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 5 | 23.57 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 5 | 23.57 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 15 | 23.57 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 15 | 23.57 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 4 | 23.51 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 4 | 23.51 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 4 | 23.51 |
| (2,112) | 1:781:B:ILE:HD11 | 1:743:A:ASP:HA | 12 | 23.5 |
| (2,112) | 1:781:B:ILE:HD12 | 1:743:A:ASP:HA | 12 | 23.5 |
| (2,112) | 1:781:B:ILE:HD13 | 1:743:A:ASP:HA | 12 | 23.5 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 1 | 23.5 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 1 | 23.5 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 1 | 23.5 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 1 | 23.5 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 1 | 23.5 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 1 | 23.5 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 7 | 23.5 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 7 | 23.5 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 7 | 23.5 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 7 | 23.5 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 7 | 23.5 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 7 | 23.5 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 8 | 23.49 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 8 | 23.49 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 8 | 23.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 8 | 23.49 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 8 | 23.49 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 8 | 23.49 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 3 | 23.48 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 3 | 23.48 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 3 | 23.48 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 3 | 23.48 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 3 | 23.48 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 3 | 23.48 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 6 | 23.46 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 6 | 23.46 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 6 | 23.46 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 6 | 23.46 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 6 | 23.46 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 6 | 23.46 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD2 | 6 | 23.45 |
| (2,104) | 1:763:A:LEU:H | 1:742:A:ARG:HD3 | 6 | 23.45 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 3 | 23.43 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 3 | 23.43 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 3 | 23.43 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 9 | 23.4 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 9 | 23.4 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 9 | 23.4 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 9 | 23.4 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 9 | 23.4 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 9 | 23.4 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 14 | 23.39 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 14 | 23.39 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 14 | 23.39 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 11 | 23.38 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 11 | 23.38 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 11 | 23.38 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 11 | 23.38 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 11 | 23.38 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 11 | 23.38 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 10 | 23.37 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 10 | 23.37 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 10 | 23.37 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 3 | 23.33 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 3 | 23.33 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 3 | 23.33 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 9 | 23.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 9 | 23.32 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 6 | 23.31 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 6 | 23.31 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 13 | 23.27 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 13 | 23.27 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 13 | 23.27 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 13 | 23.27 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 13 | 23.27 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 13 | 23.27 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 14 | 23.25 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 14 | 23.25 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 14 | 23.25 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 14 | 23.25 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 14 | 23.25 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 14 | 23.25 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 10 | 23.25 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 10 | 23.25 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 10 | 23.25 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 10 | 23.25 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 10 | 23.25 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 10 | 23.25 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 6 | 23.23 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 6 | 23.23 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 6 | 23.23 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 11 | 23.22 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 11 | 23.22 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 11 | 23.22 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 11 | 23.22 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 11 | 23.22 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 11 | 23.22 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 15 | 23.2 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 15 | 23.2 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 15 | 23.2 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 15 | 23.2 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 15 | 23.2 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 15 | 23.2 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 14 | 23.19 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 14 | 23.19 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 14 | 23.19 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 14 | 23.19 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 14 | 23.19 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 14 | 23.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 5 | 23.18 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 5 | 23.18 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 5 | 23.18 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 5 | 23.18 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 5 | 23.18 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 5 | 23.18 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 9 | 23.14 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 9 | 23.14 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 9 | 23.14 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 9 | 23.14 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 9 | 23.14 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 9 | 23.14 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 3 | 23.11 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 3 | 23.11 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 1 | 23.1 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 1 | 23.1 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 1 | 23.1 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 1 | 23.1 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 1 | 23.1 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 1 | 23.1 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 13 | 23.1 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 13 | 23.1 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 13 | 23.1 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 13 | 23.1 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 13 | 23.1 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 13 | 23.1 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 10 | 23.09 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 10 | 23.09 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 10 | 23.09 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 3 | 23.07 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 3 | 23.07 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 3 | 23.07 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 3 | 23.07 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 3 | 23.07 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 3 | 23.07 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 2 | 23.06 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 2 | 23.06 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 1 | 23.04 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 1 | 23.04 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 1 | 23.04 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 1 | 23.04 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 1 | 23.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 1 | 23.04 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 6 | 22.99 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 6 | 22.99 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 6 | 22.99 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 6 | 22.99 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 6 | 22.99 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 6 | 22.99 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 5 | 22.97 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 5 | 22.97 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 5 | 22.97 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 7 | 22.96 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 7 | 22.96 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 7 | 22.96 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 12 | 22.95 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 12 | 22.95 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 12 | 22.95 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 13 | 22.95 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 13 | 22.95 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 4 | 22.92 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 4 | 22.92 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 4 | 22.92 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 4 | 22.92 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 4 | 22.92 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 4 | 22.92 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 9 | 22.84 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 9 | 22.84 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 9 | 22.84 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 1 | 22.81 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 1 | 22.81 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 12 | 22.79 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 12 | 22.79 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 12 | 22.79 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 12 | 22.79 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 12 | 22.79 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 12 | 22.79 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 12 | 22.78 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 12 | 22.78 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 8 | 22.76 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 8 | 22.76 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 8 | 22.76 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 8 | 22.76 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 8 | 22.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 8 | 22.76 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 8 | 22.73 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 8 | 22.73 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 8 | 22.73 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 8 | 22.73 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 8 | 22.73 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 8 | 22.73 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 3 | 22.72 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 3 | 22.72 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 3 | 22.72 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 3 | 22.72 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 3 | 22.72 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 3 | 22.72 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 8 | 22.71 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 8 | 22.71 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 8 | 22.71 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 7 | 22.71 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 7 | 22.71 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 13 | 22.66 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 13 | 22.66 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 13 | 22.66 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 10 | 22.63 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 10 | 22.63 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 15 | 22.59 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 15 | 22.59 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 15 | 22.59 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 8 | 22.51 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 8 | 22.51 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 13 | 22.31 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 13 | 22.31 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 13 | 22.31 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 13 | 22.31 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 13 | 22.31 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 13 | 22.31 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 9 | 22.3 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 9 | 22.3 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 9 | 22.3 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 9 | 22.3 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 9 | 22.3 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 9 | 22.3 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 9 | 22.3 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 9 | 22.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 9 | 22.3 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 9 | 22.3 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 9 | 22.3 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 9 | 22.3 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD21 | 8 | 22.29 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD22 | 8 | 22.29 |
| (2,164) | 1:796:A:TRP:HE1 | 1:755:A:LEU:HD23 | 8 | 22.29 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 14 | 22.25 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 14 | 22.25 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 12 | 22.19 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 12 | 22.19 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 12 | 22.19 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 12 | 22.19 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 12 | 22.19 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 12 | 22.19 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 14 | 22.17 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 14 | 22.17 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 14 | 22.17 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 14 | 22.17 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 14 | 22.17 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 14 | 22.17 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 11 | 22.14 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 11 | 22.14 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 11 | 22.14 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 2 | 22.09 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 2 | 22.09 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 2 | 22.09 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 2 | 22.09 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 2 | 22.09 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 2 | 22.09 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 15 | 22.05 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 15 | 22.05 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 15 | 22.05 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 4 | 22.05 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 4 | 22.05 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 4 | 22.05 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 4 | 22.05 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 4 | 22.05 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 4 | 22.05 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD21 | 12 | 22.04 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD22 | 12 | 22.04 |
| (2,163) | 1:796:B:TRP:HE1 | 1:755:A:LEU:HD23 | 12 | 22.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 11 | 21.91 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 11 | 21.91 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 11 | 21.91 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 11 | 21.91 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 11 | 21.91 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 11 | 21.91 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 5 | 21.9 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 5 | 21.9 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 5 | 21.9 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 5 | 21.9 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 5 | 21.9 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 5 | 21.9 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG12 | 7 | 21.88 |
| (2,116) | 1:781:A:ILE:HD11 | 1:746:A:ILE:HG13 | 7 | 21.88 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG12 | 7 | 21.88 |
| (2,116) | 1:781:A:ILE:HD12 | 1:746:A:ILE:HG13 | 7 | 21.88 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG12 | 7 | 21.88 |
| (2,116) | 1:781:A:ILE:HD13 | 1:746:A:ILE:HG13 | 7 | 21.88 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD2 | 5 | 21.84 |
| (2,106) | 1:777:B:ILE:HD11 | 1:742:A:ARG:HD3 | 5 | 21.84 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD2 | 5 | 21.84 |
| (2,106) | 1:777:B:ILE:HD12 | 1:742:A:ARG:HD3 | 5 | 21.84 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD2 | 5 | 21.84 |
| (2,106) | 1:777:B:ILE:HD13 | 1:742:A:ARG:HD3 | 5 | 21.84 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 6 | 21.81 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 6 | 21.81 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 6 | 21.81 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 6 | 21.81 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 6 | 21.81 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 6 | 21.81 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 9 | 21.75 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 9 | 21.75 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 9 | 21.75 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 9 | 21.75 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 9 | 21.75 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 9 | 21.75 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB2 | 4 | 21.75 |
| (2,92) | 1:754:A:ALA:H | 1:716:A:SER:HB3 | 4 | 21.75 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 10 | 21.6 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 10 | 21.6 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 10 | 21.6 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 10 | 21.6 |

*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------------------|--------------------|----------|----------------|
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 10 | 21.6 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 10 | 21.6 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 15 | 21.53 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 15 | 21.53 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 15 | 21.53 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 15 | 21.53 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 15 | 21.53 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 15 | 21.53 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 11 | 21.45 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 11 | 21.45 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 11 | 21.45 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 11 | 21.45 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 11 | 21.45 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 11 | 21.45 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 9 | 21.39 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 9 | 21.39 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 2 | 21.35 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 2 | 21.35 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 2 | 21.35 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 2 | 21.35 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 2 | 21.35 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 2 | 21.35 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 5 | 21.17 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 5 | 21.17 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 5 | 21.17 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 5 | 21.17 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 5 | 21.17 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 5 | 21.17 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 13 | 21.16 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 13 | 21.16 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG12 | 12 | 21.11 |
| (2,115) | 1:781:B:ILE:HD11 | 1:746:A:ILE:HG13 | 12 | 21.11 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG12 | 12 | 21.11 |
| (2,115) | 1:781:B:ILE:HD12 | 1:746:A:ILE:HG13 | 12 | 21.11 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG12 | 12 | 21.11 |
| (2,115) | 1:781:B:ILE:HD13 | 1:746:A:ILE:HG13 | 12 | 21.11 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 14 | 21.04 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 14 | 21.04 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 14 | 21.04 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 14 | 21.04 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 14 | 21.04 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 14 | 21.04 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 3 | 21.04 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 3 | 21.04 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 3 | 21.04 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 3 | 21.04 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 3 | 21.04 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 3 | 21.04 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 7 | 21.01 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 7 | 21.01 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 7 | 21.01 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 7 | 21.01 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 7 | 21.01 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 7 | 21.01 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 3 | 20.96 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 3 | 20.96 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 1 | 20.95 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 1 | 20.95 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 11 | 20.92 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 11 | 20.92 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 3 | 20.91 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 3 | 20.91 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 3 | 20.91 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 3 | 20.91 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 3 | 20.91 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 3 | 20.91 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 2 | 20.81 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 2 | 20.81 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 15 | 20.79 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 15 | 20.79 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 15 | 20.79 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 15 | 20.79 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 15 | 20.79 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 15 | 20.79 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 6 | 20.75 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 6 | 20.75 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 6 | 20.75 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 6 | 20.75 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 6 | 20.75 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 6 | 20.75 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 1 | 20.74 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 1 | 20.74 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 1 | 20.74 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 1 | 20.74 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 1 | 20.74 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 1 | 20.74 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 12 | 20.74 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 12 | 20.74 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 8 | 20.71 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 8 | 20.71 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 8 | 20.71 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 8 | 20.71 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 8 | 20.71 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 8 | 20.71 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 8 | 20.71 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 8 | 20.71 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 10 | 20.65 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 10 | 20.65 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 10 | 20.65 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 10 | 20.65 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 10 | 20.65 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 10 | 20.65 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 12 | 20.65 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 12 | 20.65 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 12 | 20.65 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 12 | 20.65 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 12 | 20.65 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 12 | 20.65 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 2 | 20.59 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 2 | 20.59 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 10 | 20.58 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 10 | 20.58 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 10 | 20.58 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 10 | 20.58 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 10 | 20.58 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 10 | 20.58 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 1 | 20.56 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 1 | 20.56 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 1 | 20.56 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 1 | 20.56 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 1 | 20.56 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 1 | 20.56 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 5 | 20.45 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 5 | 20.45 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 5 | 20.45 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 5 | 20.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 5 | 20.45 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 5 | 20.45 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 3 | 20.44 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 3 | 20.44 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 3 | 20.44 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 3 | 20.44 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 3 | 20.44 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 3 | 20.44 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 4 | 20.44 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 4 | 20.44 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 4 | 20.44 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 4 | 20.44 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 4 | 20.44 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 4 | 20.44 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 7 | 20.44 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 7 | 20.44 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 8 | 20.44 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 8 | 20.44 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 1 | 20.42 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 1 | 20.42 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 1 | 20.42 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 1 | 20.42 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 1 | 20.42 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 1 | 20.42 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 12 | 20.41 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 12 | 20.41 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 12 | 20.41 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 12 | 20.41 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 12 | 20.41 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 12 | 20.41 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 15 | 20.34 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 15 | 20.34 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 10 | 20.3 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 10 | 20.3 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 15 | 20.3 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 15 | 20.3 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 13 | 20.29 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 13 | 20.29 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 13 | 20.29 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 13 | 20.29 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 13 | 20.29 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 13 | 20.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 14 | 20.26 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 14 | 20.26 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 14 | 20.26 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 14 | 20.26 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 14 | 20.26 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 14 | 20.26 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 2 | 20.25 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 2 | 20.25 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 2 | 20.25 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 2 | 20.25 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 2 | 20.25 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 2 | 20.25 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 12 | 20.24 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 12 | 20.24 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 14 | 20.22 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 14 | 20.22 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 14 | 20.22 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 14 | 20.22 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 14 | 20.22 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 14 | 20.22 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 5 | 20.22 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 5 | 20.22 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 13 | 20.21 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 13 | 20.21 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 13 | 20.21 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 13 | 20.21 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 13 | 20.21 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 13 | 20.21 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 2 | 20.13 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 2 | 20.13 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 2 | 20.13 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 2 | 20.13 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 2 | 20.13 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 2 | 20.13 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 4 | 20.08 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 4 | 20.08 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 15 | 20.06 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 15 | 20.06 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 15 | 20.06 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 15 | 20.06 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 15 | 20.06 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 15 | 20.06 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 8 | 20.06 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 8 | 20.06 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 8 | 20.06 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 8 | 20.06 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 8 | 20.06 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 8 | 20.06 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 12 | 20.01 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 12 | 20.01 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 12 | 20.01 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 12 | 20.01 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 12 | 20.01 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 12 | 20.01 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 11 | 19.98 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 11 | 19.98 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 11 | 19.98 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 11 | 19.98 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 11 | 19.98 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 11 | 19.98 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 6 | 19.94 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 6 | 19.94 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 11 | 19.92 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 11 | 19.92 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 6 | 19.91 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 6 | 19.91 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 6 | 19.91 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 6 | 19.91 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 6 | 19.91 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 6 | 19.91 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 8 | 19.84 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 8 | 19.84 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 8 | 19.84 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 8 | 19.84 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 8 | 19.84 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 8 | 19.84 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 1 | 19.82 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 1 | 19.82 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 3 | 19.82 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 3 | 19.82 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 14 | 19.76 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 14 | 19.76 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 14 | 19.76 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 14 | 19.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 14 | 19.76 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 14 | 19.76 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 14 | 19.64 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 14 | 19.64 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 9 | 19.6 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 9 | 19.6 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 9 | 19.6 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 9 | 19.6 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 9 | 19.6 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 9 | 19.6 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 10 | 19.57 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 10 | 19.57 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 7 | 19.55 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 7 | 19.55 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 6 | 19.52 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 6 | 19.52 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB2 | 13 | 19.51 |
| (2,91) | 1:754:B:ALA:H | 1:716:A:SER:HB3 | 13 | 19.51 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 12 | 19.5 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 12 | 19.5 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 12 | 19.5 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 12 | 19.5 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 12 | 19.5 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 12 | 19.5 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 11 | 19.46 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 11 | 19.46 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 11 | 19.46 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 11 | 19.46 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 11 | 19.46 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 11 | 19.46 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 4 | 19.41 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 4 | 19.41 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 9 | 19.4 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 9 | 19.4 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 5 | 19.38 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 5 | 19.38 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 5 | 19.38 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 5 | 19.38 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 5 | 19.38 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 5 | 19.38 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 4 | 19.38 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 4 | 19.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 4 | 19.38 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 4 | 19.38 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 4 | 19.38 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 4 | 19.38 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 13 | 19.34 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 13 | 19.34 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 13 | 19.34 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 13 | 19.34 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 13 | 19.34 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 13 | 19.34 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB2 | 7 | 19.31 |
| (2,120) | 1:785:A:LEU:HD21 | 1:716:A:SER:HB3 | 7 | 19.31 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB2 | 7 | 19.31 |
| (2,120) | 1:785:A:LEU:HD22 | 1:716:A:SER:HB3 | 7 | 19.31 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB2 | 7 | 19.31 |
| (2,120) | 1:785:A:LEU:HD23 | 1:716:A:SER:HB3 | 7 | 19.31 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD2 | 8 | 19.3 |
| (2,121) | 1:785:B:LEU:HD21 | 1:747:A:ARG:HD3 | 8 | 19.3 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD2 | 8 | 19.3 |
| (2,121) | 1:785:B:LEU:HD22 | 1:747:A:ARG:HD3 | 8 | 19.3 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD2 | 8 | 19.3 |
| (2,121) | 1:785:B:LEU:HD23 | 1:747:A:ARG:HD3 | 8 | 19.3 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 6 | 19.29 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 6 | 19.29 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 6 | 19.29 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 6 | 19.29 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 6 | 19.29 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 6 | 19.29 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 4 | 19.23 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 4 | 19.23 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 4 | 19.23 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 10 | 19.2 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 10 | 19.2 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 10 | 19.2 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 10 | 19.2 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 10 | 19.2 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 10 | 19.2 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 3 | 19.02 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 3 | 19.02 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 3 | 19.02 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 14 | 18.97 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 14 | 18.97 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 2 | 18.55 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 2 | 18.55 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 2 | 18.55 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 2 | 18.55 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 2 | 18.55 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 2 | 18.55 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 12 | 18.54 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 12 | 18.54 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 12 | 18.54 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 13 | 18.49 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 13 | 18.49 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 13 | 18.49 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 4 | 18.4 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 4 | 18.4 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 4 | 18.4 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 4 | 18.4 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 4 | 18.4 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 4 | 18.4 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 9 | 18.4 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 9 | 18.4 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 9 | 18.4 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 15 | 18.37 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 15 | 18.37 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 15 | 18.37 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 15 | 18.37 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 15 | 18.37 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 15 | 18.37 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD2 | 5 | 18.37 |
| (2,100) | 1:759:B:ASP:H | 1:709:A:ARG:HD3 | 5 | 18.37 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 4 | 18.31 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 4 | 18.31 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 4 | 18.31 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 4 | 18.31 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 4 | 18.31 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 4 | 18.31 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 9 | 18.21 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 9 | 18.21 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 9 | 18.21 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 9 | 18.21 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 9 | 18.21 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 9 | 18.21 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 7 | 18.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 7 | 18.21 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 7 | 18.21 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 8 | 18.2 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 8 | 18.2 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 8 | 18.2 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 3 | 18.06 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 3 | 18.06 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 3 | 18.06 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 3 | 18.06 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 3 | 18.06 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 3 | 18.06 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 1 | 18.02 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 1 | 18.02 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 1 | 18.02 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 14 | 17.96 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 14 | 17.96 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 14 | 17.96 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD2 | 7 | 17.82 |
| (2,122) | 1:785:A:LEU:HD21 | 1:747:A:ARG:HD3 | 7 | 17.82 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD2 | 7 | 17.82 |
| (2,122) | 1:785:A:LEU:HD22 | 1:747:A:ARG:HD3 | 7 | 17.82 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD2 | 7 | 17.82 |
| (2,122) | 1:785:A:LEU:HD23 | 1:747:A:ARG:HD3 | 7 | 17.82 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 1 | 17.58 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 1 | 17.58 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 1 | 17.58 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 1 | 17.58 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 1 | 17.58 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 1 | 17.58 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 2 | 17.5 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 2 | 17.5 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 2 | 17.5 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 10 | 17.48 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 10 | 17.48 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 10 | 17.48 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 5 | 17.42 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 5 | 17.42 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 5 | 17.42 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 7 | 17.31 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 7 | 17.31 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 7 | 17.31 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 7 | 17.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 7 | 17.31 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 7 | 17.31 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 5 | 17.3 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 5 | 17.3 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 5 | 17.3 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 5 | 17.3 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 5 | 17.3 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 5 | 17.3 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 11 | 17.26 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 11 | 17.26 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 11 | 17.26 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 6 | 17.08 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 6 | 17.08 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 6 | 17.08 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB2 | 13 | 17.04 |
| (2,119) | 1:785:A:LEU:HD21 | 1:716:B:SER:HB3 | 13 | 17.04 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB2 | 13 | 17.04 |
| (2,119) | 1:785:A:LEU:HD22 | 1:716:B:SER:HB3 | 13 | 17.04 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB2 | 13 | 17.04 |
| (2,119) | 1:785:A:LEU:HD23 | 1:716:B:SER:HB3 | 13 | 17.04 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 13 | 16.94 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 13 | 16.94 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 13 | 16.94 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 1 | 16.8 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 1 | 16.8 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 1 | 16.8 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 3 | 16.7 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 3 | 16.7 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 3 | 16.7 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 5 | 16.7 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 5 | 16.7 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 5 | 16.7 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 14 | 16.58 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 14 | 16.58 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 14 | 16.58 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD21 | 15 | 16.57 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD22 | 15 | 16.57 |
| (2,98) | 1:758:A:ASP:H | 1:715:A:LEU:HD23 | 15 | 16.57 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 4 | 16.56 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 4 | 16.56 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 4 | 16.56 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 12 | 16.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 12 | 16.49 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 12 | 16.49 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 10 | 16.48 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 10 | 16.48 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 10 | 16.48 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 8 | 16.44 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 8 | 16.44 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 8 | 16.44 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 15 | 16.12 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 15 | 16.12 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 15 | 16.12 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 7 | 15.87 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 7 | 15.87 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 7 | 15.87 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 9 | 15.82 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 9 | 15.82 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 2 | 15.8 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 2 | 15.8 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 2 | 15.8 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 11 | 15.78 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 11 | 15.78 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 11 | 15.78 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 1 | 15.67 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 1 | 15.67 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 1 | 15.58 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 1 | 15.58 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 5 | 15.49 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 5 | 15.49 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 8 | 15.4 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 8 | 15.4 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 3 | 15.4 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 3 | 15.4 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 6 | 15.39 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 6 | 15.39 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 6 | 15.39 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 2 | 15.31 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 2 | 15.31 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD21 | 9 | 15.26 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD22 | 9 | 15.26 |
| (2,97) | 1:758:B:ASP:H | 1:715:A:LEU:HD23 | 9 | 15.26 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 5 | 15.23 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 5 | 15.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 2 | 15.22 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 2 | 15.22 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 13 | 15.22 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 13 | 15.22 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 14 | 15.18 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 14 | 15.18 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 6 | 15.11 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 6 | 15.11 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 12 | 15.08 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 12 | 15.08 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 4 | 15.05 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 4 | 15.05 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 4 | 14.98 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 4 | 14.98 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 12 | 14.87 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 12 | 14.87 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 15 | 14.85 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 15 | 14.85 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 3 | 14.76 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 3 | 14.76 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 7 | 14.69 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 7 | 14.69 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 11 | 14.66 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 11 | 14.66 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 8 | 14.6 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 8 | 14.6 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 10 | 14.55 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 10 | 14.55 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 4 | 14.54 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 4 | 14.54 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 10 | 14.52 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 10 | 14.52 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 5 | 14.5 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 5 | 14.5 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 9 | 14.46 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 9 | 14.46 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 13 | 14.42 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 13 | 14.42 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 15 | 14.39 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 15 | 14.39 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB2 | 9 | 14.37 |
| (2,86) | 1:711:A:GLY:H | 1:758:B:ASP:HB3 | 9 | 14.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 14 | 14.34 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 14 | 14.34 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 6 | 14.21 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 6 | 14.21 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 8 | 14.1 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 8 | 14.1 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 2 | 14.08 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 2 | 14.08 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 7 | 14.04 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 7 | 14.04 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 1 | 14.0 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 1 | 14.0 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 12 | 13.8 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 12 | 13.8 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 3 | 13.79 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 3 | 13.79 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 11 | 13.69 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 11 | 13.69 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 11 | 13.69 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 11 | 13.69 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 11 | 13.69 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 11 | 13.69 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 14 | 13.54 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 14 | 13.54 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD2 | 11 | 13.53 |
| (2,101) | 1:759:A:ASP:H | 1:709:A:ARG:HD3 | 11 | 13.53 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 7 | 13.49 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 7 | 13.49 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 13 | 13.19 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 13 | 13.19 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 6 | 13.15 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 6 | 13.15 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 10 | 13.07 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 10 | 13.07 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 2 | 13.01 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 2 | 13.01 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 2 | 13.01 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 2 | 13.01 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 2 | 13.01 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 2 | 13.01 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 14 | 12.89 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 14 | 12.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 14 | 12.89 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 14 | 12.89 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 14 | 12.89 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 14 | 12.89 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 3 | 12.88 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 3 | 12.88 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 3 | 12.88 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 3 | 12.88 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 3 | 12.88 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 3 | 12.88 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 4 | 12.78 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 4 | 12.78 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 4 | 12.78 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 4 | 12.78 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 4 | 12.78 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 4 | 12.78 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 11 | 12.74 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 11 | 12.74 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB2 | 15 | 12.69 |
| (2,85) | 1:711:A:GLY:H | 1:758:A:ASP:HB3 | 15 | 12.69 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 12 | 12.58 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 12 | 12.58 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 12 | 12.58 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 12 | 12.58 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 12 | 12.58 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 12 | 12.58 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 1 | 12.54 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 1 | 12.54 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 1 | 12.54 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 1 | 12.54 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 1 | 12.54 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 1 | 12.54 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 10 | 12.47 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 10 | 12.47 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 10 | 12.47 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 10 | 12.47 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 10 | 12.47 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 10 | 12.47 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 7 | 12.42 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 7 | 12.24 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 7 | 12.24 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 7 | 12.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 7 | 12.24 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 7 | 12.24 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 7 | 12.24 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 1 | 12.21 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 8 | 12.19 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 8 | 12.19 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 8 | 12.19 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 8 | 12.19 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 8 | 12.19 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 8 | 12.19 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 10 | 12.1 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 10 | 12.1 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 9 | 12.08 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 9 | 12.08 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 5 | 12.06 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 5 | 12.06 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 5 | 12.06 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 5 | 12.06 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 5 | 12.06 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 5 | 12.06 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 9 | 12.02 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 9 | 12.02 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 9 | 12.02 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 9 | 12.02 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 9 | 12.02 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 9 | 12.02 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 6 | 11.99 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 6 | 11.99 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 6 | 11.99 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 6 | 11.99 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 6 | 11.99 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 6 | 11.99 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 15 | 11.98 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 15 | 11.98 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 15 | 11.98 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 15 | 11.98 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 15 | 11.98 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 15 | 11.98 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 9 | 11.86 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 9 | 11.86 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 9 | 11.86 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 9 | 11.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 9 | 11.86 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 9 | 11.86 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 11 | 11.8 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 11 | 11.8 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 5 | 11.7 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 5 | 11.7 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 1 | 11.54 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 1 | 11.54 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 1 | 11.54 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 1 | 11.54 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 1 | 11.54 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 1 | 11.54 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 8 | 11.54 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 8 | 11.54 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 14 | 11.54 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 14 | 11.54 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 13 | 11.53 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 13 | 11.53 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 13 | 11.53 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 13 | 11.53 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 13 | 11.53 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 13 | 11.53 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 4 | 11.49 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 4 | 11.49 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 4 | 11.49 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 4 | 11.49 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 4 | 11.49 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 4 | 11.49 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 9 | 11.47 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 9 | 11.47 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 9 | 11.47 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 11 | 11.46 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 11 | 11.46 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 11 | 11.46 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 10 | 11.45 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 10 | 11.45 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 10 | 11.45 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 7 | 11.44 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 7 | 11.44 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 2 | 11.39 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 2 | 11.39 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 12 | 11.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 12 | 11.32 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 12 | 11.32 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 12 | 11.32 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 12 | 11.32 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 12 | 11.32 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 3 | 11.28 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 3 | 11.28 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 3 | 11.28 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 14 | 11.25 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 12 | 11.19 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 12 | 11.19 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 7 | 11.18 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 7 | 11.18 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 7 | 11.18 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 15 | 11.04 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 15 | 11.04 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 3 | 10.98 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 3 | 10.98 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 12 | 10.97 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 12 | 10.97 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 12 | 10.97 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 6 | 10.92 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 6 | 10.92 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 8 | 10.84 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 11 | 10.82 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 11 | 10.82 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 14 | 10.79 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 14 | 10.79 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 14 | 10.79 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 14 | 10.79 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 14 | 10.79 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 14 | 10.79 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 4 | 10.79 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 4 | 10.79 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 13 | 10.78 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 13 | 10.78 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 2 | 10.76 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 2 | 10.76 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 2 | 10.76 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 2 | 10.76 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 2 | 10.76 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 2 | 10.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 13 | 10.75 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 13 | 10.75 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 13 | 10.71 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 13 | 10.71 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 13 | 10.71 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 13 | 10.71 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 13 | 10.71 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 13 | 10.71 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 10 | 10.71 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 14 | 10.67 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 14 | 10.67 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 5 | 10.66 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 5 | 10.66 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 12 | 10.66 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 12 | 10.66 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD2 | 1 | 10.65 |
| (2,82) | 1:709:B:ARG:H | 1:714:A:PRO:HD3 | 1 | 10.65 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 5 | 10.64 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 5 | 10.64 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 5 | 10.64 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 9 | 10.63 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 9 | 10.63 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 9 | 10.63 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 3 | 10.63 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 3 | 10.63 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 8 | 10.61 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 8 | 10.61 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 8 | 10.61 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 8 | 10.61 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 8 | 10.61 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 8 | 10.61 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 10 | 10.59 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 10 | 10.59 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 10 | 10.59 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 10 | 10.59 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 10 | 10.59 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 10 | 10.59 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 1 | 10.54 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 1 | 10.54 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 2 | 10.45 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 2 | 10.45 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 12 | 10.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 15 | 10.39 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 15 | 10.39 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 15 | 10.39 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 15 | 10.39 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 15 | 10.39 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 15 | 10.39 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 5 | 10.39 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 5 | 10.39 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 5 | 10.39 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 11 | 10.38 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 11 | 10.38 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 11 | 10.38 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 13 | 10.34 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 13 | 10.34 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 13 | 10.34 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 7 | 10.33 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 7 | 10.33 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 7 | 10.33 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 7 | 10.33 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 7 | 10.33 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 7 | 10.33 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 15 | 10.31 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 15 | 10.31 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 1 | 10.29 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 1 | 10.29 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 1 | 10.29 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 11 | 10.29 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 6 | 10.26 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 6 | 10.26 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 6 | 10.26 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 6 | 10.26 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 6 | 10.26 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 6 | 10.26 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 8 | 10.21 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 8 | 10.21 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 4 | 10.19 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 4 | 10.19 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 4 | 10.19 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 6 | 10.19 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 6 | 10.19 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 6 | 10.19 |
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE21 | 5 | 10.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,94) | 1:755:B:LEU:HD11 | 1:710:A:GLN:HE22 | 5 | 10.18 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE21 | 5 | 10.18 |
| (2,94) | 1:755:B:LEU:HD12 | 1:710:A:GLN:HE22 | 5 | 10.18 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE21 | 5 | 10.18 |
| (2,94) | 1:755:B:LEU:HD13 | 1:710:A:GLN:HE22 | 5 | 10.18 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 9 | 10.13 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 9 | 10.13 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 7 | 10.02 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 7 | 10.02 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 11 | 10.0 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 11 | 10.0 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 11 | 10.0 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 11 | 10.0 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 11 | 10.0 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 11 | 10.0 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 6 | 9.98 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 15 | 9.89 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 15 | 9.89 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 15 | 9.89 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 15 | 9.84 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE21 | 3 | 9.8 |
| (2,95) | 1:755:A:LEU:HD11 | 1:710:A:GLN:HE22 | 3 | 9.8 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE21 | 3 | 9.8 |
| (2,95) | 1:755:A:LEU:HD12 | 1:710:A:GLN:HE22 | 3 | 9.8 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE21 | 3 | 9.8 |
| (2,95) | 1:755:A:LEU:HD13 | 1:710:A:GLN:HE22 | 3 | 9.8 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 2 | 9.77 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 3 | 9.77 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 1 | 9.67 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 1 | 9.67 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 1 | 9.67 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 15 | 9.63 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 15 | 9.63 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 15 | 9.63 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 12 | 9.55 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 12 | 9.55 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 7 | 9.49 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 7 | 9.49 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 7 | 9.49 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 14 | 9.47 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 14 | 9.47 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 14 | 9.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 10 | 9.46 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 10 | 9.46 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 12 | 9.44 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 12 | 9.44 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 12 | 9.44 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 10 | 9.42 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 10 | 9.42 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 10 | 9.42 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 14 | 9.37 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 14 | 9.37 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 14 | 9.37 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 10 | 9.35 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 10 | 9.35 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 10 | 9.35 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 11 | 9.33 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 11 | 9.33 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 11 | 9.24 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 11 | 9.24 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 11 | 9.24 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 4 | 9.24 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 4 | 9.24 |
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD2 | 10 | 9.17 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD2 | 10 | 9.17 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 13 | 9.16 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 13 | 9.16 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 13 | 9.16 |
| (2,636) | 1:761:B:ARG:HH21 | 1:758:B:ASP:OD1 | 9 | 9.13 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 4 | 9.13 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 4 | 9.13 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 4 | 9.13 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 4 | 9.13 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 4 | 9.13 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 4 | 9.13 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 10 | 9.1 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 10 | 9.1 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 10 | 9.1 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 1 | 9.1 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 1 | 9.1 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 6 | 9.07 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 6 | 9.07 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 6 | 9.07 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 3 | 9.07 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 3 | 9.07 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 3 | 9.07 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 2 | 9.06 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 2 | 9.06 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 9 | 8.92 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 9 | 8.92 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 9 | 8.92 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 9 | 8.87 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 9 | 8.87 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 9 | 8.87 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 14 | 8.86 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 14 | 8.86 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 14 | 8.86 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 2 | 8.75 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 2 | 8.75 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 2 | 8.75 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 7 | 8.75 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 7 | 8.75 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 7 | 8.75 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 13 | 8.7 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 13 | 8.7 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 12 | 8.69 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 12 | 8.69 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 12 | 8.69 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 4 | 8.69 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 4 | 8.69 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 4 | 8.69 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB2 | 6 | 8.68 |
| (2,16) | 1:670:B:TRP:HE1 | 1:660:A:LEU:HB3 | 6 | 8.68 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 14 | 8.67 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 14 | 8.67 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 3 | 8.66 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 3 | 8.66 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 8 | 8.61 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 8 | 8.61 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 8 | 8.61 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 15 | 8.61 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 15 | 8.61 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 8 | 8.6 |
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 8 | 8.6 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 8 | 8.6 |
| (2,79) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HA | 2 | 8.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,79) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HA | 2 | 8.59 |
| (2,79) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HA | 2 | 8.59 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 14 | 8.57 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 14 | 8.57 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 14 | 8.57 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 11 | 8.48 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 11 | 8.48 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 11 | 8.48 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 8 | 8.47 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 8 | 8.47 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 8 | 8.47 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 6 | 8.45 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 6 | 8.45 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 6 | 8.45 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 9 | 8.44 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 2 | 8.41 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 2 | 8.41 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 9 | 8.41 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 9 | 8.41 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 4 | 8.38 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 1 | 8.34 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 1 | 8.34 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 1 | 8.34 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 5 | 8.33 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 5 | 8.33 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 5 | 8.33 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 15 | 8.31 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 15 | 8.31 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 2 | 8.3 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 2 | 8.3 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 2 | 8.3 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 3 | 8.28 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 3 | 8.28 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 3 | 8.28 |
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 9 | 8.27 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 9 | 8.27 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 7 | 8.26 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 7 | 8.26 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 12 | 8.26 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 12 | 8.26 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 9 | 8.22 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 9 | 8.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 9 | 8.22 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 9 | 8.22 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 9 | 8.22 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 9 | 8.22 |
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 13 | 8.22 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 13 | 8.21 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 13 | 8.21 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 13 | 8.21 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 6 | 8.2 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 6 | 8.2 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 6 | 8.2 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 15 | 8.2 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 15 | 8.2 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 15 | 8.2 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 5 | 8.2 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 5 | 8.2 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 6 | 8.14 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 6 | 8.14 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 10 | 8.12 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 10 | 8.12 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 1 | 8.1 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 1 | 8.1 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 1 | 8.1 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 11 | 8.07 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 11 | 8.07 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 11 | 8.07 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 11 | 8.07 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 11 | 8.07 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 11 | 8.07 |
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 4 | 8.05 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 4 | 8.05 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 1 | 8.05 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 1 | 8.05 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 1 | 8.05 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 1 | 8.05 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 1 | 8.05 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 1 | 8.05 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 8 | 8.04 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 8 | 8.04 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 8 | 8.04 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 3 | 8.03 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 3 | 8.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,21) | 1:678:A:TRP:HE1 | 1:683:B:ARG:HE | 5 | 8.02 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 5 | 8.01 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 5 | 8.01 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 10 | 7.98 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 10 | 7.98 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 10 | 7.98 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 10 | 7.98 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 10 | 7.98 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 10 | 7.98 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 1 | 7.97 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 1 | 7.97 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 1 | 7.97 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 1 | 7.97 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 1 | 7.97 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 1 | 7.97 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 4 | 7.95 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 4 | 7.95 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 4 | 7.95 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 4 | 7.95 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 4 | 7.95 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 4 | 7.95 |
| (2,636) | 1:761:B:ARG:HH21 | 1:758:B:ASP:OD1 | 14 | 7.9 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 12 | 7.9 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 12 | 7.9 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 12 | 7.9 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 12 | 7.9 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 12 | 7.9 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 12 | 7.9 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 5 | 7.89 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 5 | 7.89 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 5 | 7.89 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 8 | 7.84 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 8 | 7.84 |
| (2,636) | 1:761:B:ARG:HH21 | 1:758:B:ASP:OD1 | 1 | 7.78 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 3 | 7.78 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 7 | 7.77 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 7 | 7.77 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 7 | 7.77 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD11 | 2 | 7.76 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD12 | 2 | 7.76 |
| (2,24) | 1:678:A:TRP:HE1 | 1:687:B:ILE:HD13 | 2 | 7.76 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 11 | 7.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 11 | 7.76 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 14 | 7.75 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 14 | 7.75 |
| (2,636) | 1:761:B:ARG:HH11 | 1:758:B:ASP:OD1 | 2 | 7.74 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB2 | 4 | 7.73 |
| (2,17) | 1:670:A:TRP:HE1 | 1:660:A:LEU:HB3 | 4 | 7.73 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 12 | 7.68 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 12 | 7.68 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 12 | 7.68 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 6 | 7.66 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 6 | 7.66 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 6 | 7.66 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 6 | 7.66 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 6 | 7.66 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 6 | 7.66 |
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 2 | 7.62 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 2 | 7.62 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 5 | 7.62 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 5 | 7.62 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 5 | 7.62 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 5 | 7.62 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 5 | 7.62 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 5 | 7.62 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 1 | 7.59 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 1 | 7.59 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 10 | 7.57 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 10 | 7.57 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 10 | 7.57 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 10 | 7.57 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 10 | 7.57 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 10 | 7.57 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 2 | 7.49 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 2 | 7.49 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 2 | 7.49 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 2 | 7.49 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 2 | 7.49 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 2 | 7.49 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 11 | 7.47 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 11 | 7.47 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 11 | 7.47 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 11 | 7.47 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 11 | 7.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 11 | 7.47 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 6 | 7.46 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 6 | 7.46 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 6 | 7.46 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 6 | 7.46 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 6 | 7.46 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 6 | 7.46 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 3 | 7.45 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 3 | 7.45 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 3 | 7.45 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 7 | 7.43 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 7 | 7.43 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 13 | 7.42 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 13 | 7.42 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 15 | 7.4 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 9 | 7.4 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 9 | 7.4 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 14 | 7.39 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 14 | 7.39 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 14 | 7.39 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 14 | 7.39 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 14 | 7.39 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 14 | 7.39 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD2 | 4 | 7.37 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 11 | 7.37 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 11 | 7.37 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 11 | 7.37 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 10 | 7.36 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 12 | 7.35 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 12 | 7.35 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 12 | 7.35 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 12 | 7.35 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 12 | 7.35 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 12 | 7.35 |
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 8 | 7.32 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 8 | 7.32 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 4 | 7.3 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 6 | 7.3 |
| (2,1486) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD1 | 6 | 7.28 |
| (2,1061) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD1 | 6 | 7.28 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 4 | 7.28 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 4 | 7.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 4 | 7.28 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 4 | 7.28 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 4 | 7.28 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 4 | 7.28 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 1 | 7.26 |
| (2,1486) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD2 | 1 | 7.23 |
| (2,1061) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD2 | 1 | 7.23 |
| (2,1486) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD2 | 3 | 7.22 |
| (2,1061) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD2 | 3 | 7.22 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 14 | 7.17 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 7 | 7.15 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 7 | 7.15 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 7 | 7.15 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 7 | 7.15 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 7 | 7.15 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 7 | 7.15 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 13 | 7.15 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 13 | 7.15 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 14 | 7.12 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 14 | 7.12 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 14 | 7.12 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 14 | 7.12 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 14 | 7.12 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 14 | 7.12 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 12 | 7.12 |
| (2,636) | 1:761:B:ARG:HH21 | 1:758:B:ASP:OD1 | 13 | 7.07 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 8 | 7.06 |
| (2,636) | 1:761:B:ARG:HH21 | 1:758:B:ASP:OD2 | 8 | 7.05 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 15 | 7.03 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 15 | 7.03 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 7 | 7.03 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 5 | 6.99 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 8 | 6.98 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 8 | 6.98 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 8 | 6.98 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 8 | 6.98 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 8 | 6.98 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 8 | 6.98 |
| (2,636) | 1:761:B:ARG:HH21 | 1:758:B:ASP:OD1 | 11 | 6.96 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 13 | 6.96 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 13 | 6.96 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 13 | 6.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 13 | 6.96 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 13 | 6.96 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 13 | 6.96 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD11 | 13 | 6.95 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD12 | 13 | 6.95 |
| (2,23) | 1:678:A:TRP:HE1 | 1:687:A:ILE:HD13 | 13 | 6.95 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD1 | 9 | 6.94 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 9 | 6.93 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 12 | 6.89 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 12 | 6.89 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 12 | 6.89 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 12 | 6.89 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 12 | 6.89 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 12 | 6.89 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 3 | 6.88 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 3 | 6.88 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 3 | 6.88 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 3 | 6.88 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 3 | 6.88 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 3 | 6.88 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 2 | 6.86 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 2 | 6.86 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 2 | 6.86 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 2 | 6.86 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 2 | 6.86 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 2 | 6.86 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 13 | 6.86 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 11 | 6.83 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 11 | 6.83 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 11 | 6.83 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 11 | 6.83 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 11 | 6.83 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 11 | 6.83 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 4 | 6.83 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 4 | 6.83 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 2 | 6.82 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 2 | 6.82 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 2 | 6.82 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 2 | 6.82 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 2 | 6.82 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 2 | 6.82 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 9 | 6.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 9 | 6.82 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 9 | 6.82 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 9 | 6.82 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 9 | 6.82 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 9 | 6.82 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 5 | 6.79 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 5 | 6.79 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 5 | 6.79 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 5 | 6.79 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 5 | 6.79 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 5 | 6.79 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 9 | 6.78 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 9 | 6.78 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 6 | 6.78 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 6 | 6.78 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 6 | 6.78 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 5 | 6.75 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 5 | 6.75 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 13 | 6.75 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 13 | 6.75 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 13 | 6.75 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 3 | 6.72 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 3 | 6.72 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 3 | 6.72 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 3 | 6.72 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 3 | 6.72 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 3 | 6.72 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 11 | 6.7 |
| (2,634) | 1:740:B:ARG:HH21 | 1:743:B:ASP:OD2 | 12 | 6.69 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD2 | 15 | 6.68 |
| (2,76) | 1:708:B:VAL:HG21 | 1:714:A:PRO:HD3 | 15 | 6.68 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD2 | 15 | 6.68 |
| (2,76) | 1:708:B:VAL:HG22 | 1:714:A:PRO:HD3 | 15 | 6.68 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD2 | 15 | 6.68 |
| (2,76) | 1:708:B:VAL:HG23 | 1:714:A:PRO:HD3 | 15 | 6.68 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 10 | 6.68 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 10 | 6.68 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 5 | 6.68 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 5 | 6.68 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 5 | 6.68 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 5 | 6.68 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 5 | 6.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 5 | 6.68 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 8 | 6.67 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 8 | 6.67 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 15 | 6.61 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 15 | 6.61 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 15 | 6.61 |
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 14 | 6.59 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 14 | 6.59 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 15 | 6.59 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 15 | 6.59 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 15 | 6.59 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG21 | 15 | 6.57 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG22 | 15 | 6.57 |
| (2,89) | 1:713:A:SER:H | 1:708:B:VAL:HG23 | 15 | 6.57 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 4 | 6.57 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 4 | 6.57 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 4 | 6.57 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 4 | 6.57 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 4 | 6.57 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 4 | 6.57 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 8 | 6.54 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 8 | 6.54 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 8 | 6.54 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 8 | 6.54 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 8 | 6.54 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 8 | 6.54 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 6 | 6.53 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 6 | 6.53 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 14 | 6.51 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 14 | 6.51 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 14 | 6.51 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 14 | 6.51 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 14 | 6.51 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 14 | 6.51 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 15 | 6.51 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 15 | 6.51 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 15 | 6.51 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 15 | 6.51 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 15 | 6.51 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 15 | 6.51 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 3 | 6.5 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 3 | 6.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 3 | 6.5 |
| (2,638) | 1:780:B:ARG:HH21 | 1:783:B:GLU:OE1 | 15 | 6.48 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 8 | 6.47 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 8 | 6.47 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 8 | 6.47 |
| (2,636) | 1:761:B:ARG:HH11 | 1:758:B:ASP:OD1 | 5 | 6.45 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 5 | 6.45 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 5 | 6.45 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 5 | 6.45 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 13 | 6.44 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 13 | 6.44 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 13 | 6.44 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 13 | 6.44 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 13 | 6.44 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 13 | 6.44 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 11 | 6.43 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 11 | 6.43 |
| (2,20) | 1:678:A:TRP:HE1 | 1:683:A:ARG:HE | 2 | 6.43 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 3 | 6.42 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 3 | 6.42 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 5 | 6.41 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 5 | 6.41 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 5 | 6.41 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 8 | 6.4 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 8 | 6.4 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 8 | 6.39 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 8 | 6.39 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 8 | 6.39 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 8 | 6.39 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 8 | 6.39 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 8 | 6.39 |
| (2,1486) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD1 | 11 | 6.38 |
| (2,1061) | 1:761:A:ARG:HH11 | 1:758:A:ASP:OD1 | 11 | 6.38 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 12 | 6.38 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 12 | 6.38 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 12 | 6.38 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 1 | 6.36 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 1 | 6.36 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 1 | 6.36 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 1 | 6.36 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 1 | 6.36 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 1 | 6.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 10 | 6.36 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 10 | 6.36 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 10 | 6.36 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 11 | 6.35 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 11 | 6.35 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 11 | 6.35 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 11 | 6.35 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 11 | 6.35 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 11 | 6.35 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 2 | 6.34 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 2 | 6.34 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 1 | 6.34 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 1 | 6.34 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 1 | 6.34 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 1 | 6.34 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 1 | 6.34 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 1 | 6.34 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 3 | 6.34 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 3 | 6.34 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 3 | 6.34 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 3 | 6.34 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 3 | 6.34 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 3 | 6.34 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 13 | 6.33 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 13 | 6.33 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 13 | 6.33 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 13 | 6.33 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 13 | 6.33 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 13 | 6.33 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD1 | 1 | 6.32 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 2 | 6.32 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 2 | 6.32 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 4 | 6.31 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 4 | 6.31 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 7 | 6.3 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 7 | 6.3 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 7 | 6.3 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 7 | 6.3 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 7 | 6.3 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 9 | 6.28 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 9 | 6.28 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 6 | 6.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 6 | 6.28 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 6 | 6.28 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 8 | 6.26 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 8 | 6.26 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 8 | 6.26 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 8 | 6.26 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 8 | 6.26 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 8 | 6.26 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 13 | 6.25 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 13 | 6.25 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 13 | 6.25 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB2 | 6 | 6.19 |
| (2,7) | 1:664:B:ASP:H | 1:660:A:LEU:HB3 | 6 | 6.19 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 12 | 6.15 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 12 | 6.15 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 14 | 6.15 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 14 | 6.15 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 14 | 6.15 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 7 | 6.13 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 7 | 6.13 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 7 | 6.13 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 7 | 6.13 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 7 | 6.13 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 7 | 6.13 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 9 | 6.12 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 9 | 6.12 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 9 | 6.12 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 15 | 6.11 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 15 | 6.11 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 15 | 6.11 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 10 | 6.1 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 10 | 6.1 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 10 | 6.1 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 10 | 6.1 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 10 | 6.1 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 10 | 6.1 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 15 | 6.1 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 15 | 6.1 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 15 | 6.1 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 15 | 6.1 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 15 | 6.1 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 15 | 6.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 1 | 6.09 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 1 | 6.09 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 1 | 6.09 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 1 | 6.07 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 1 | 6.07 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 7 | 6.06 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 7 | 6.06 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 11 | 6.05 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 11 | 6.05 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 11 | 6.05 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 11 | 6.05 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 11 | 6.05 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 11 | 6.05 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 5 | 6.03 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 5 | 6.03 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 14 | 6.0 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 14 | 6.0 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 7 | 6.0 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 7 | 6.0 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 7 | 6.0 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 7 | 6.0 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 7 | 6.0 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 7 | 6.0 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 3 | 6.0 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 3 | 6.0 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 3 | 6.0 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 15 | 5.98 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 15 | 5.98 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD1 | 12 | 5.97 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 2 | 5.97 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 2 | 5.97 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 2 | 5.97 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 2 | 5.96 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 2 | 5.96 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 2 | 5.96 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 1 | 5.95 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 1 | 5.95 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 5 | 5.95 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 5 | 5.95 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 5 | 5.95 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 10 | 5.94 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 10 | 5.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 12 | 5.94 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 12 | 5.94 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 12 | 5.94 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 12 | 5.94 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 12 | 5.94 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 12 | 5.94 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 12 | 5.94 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 12 | 5.94 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 12 | 5.94 |
| (2,636) | 1:761:B:ARG:HH21 | 1:758:B:ASP:OD1 | 6 | 5.92 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB2 | 7 | 5.9 |
| (2,70) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HB3 | 7 | 5.9 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB2 | 7 | 5.9 |
| (2,70) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HB3 | 7 | 5.9 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB2 | 7 | 5.9 |
| (2,70) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HB3 | 7 | 5.9 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 15 | 5.88 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 15 | 5.88 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 15 | 5.88 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 15 | 5.88 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 15 | 5.88 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 15 | 5.88 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 15 | 5.88 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 15 | 5.88 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 15 | 5.88 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 12 | 5.88 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 12 | 5.88 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 12 | 5.88 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 15 | 5.86 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 15 | 5.86 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 15 | 5.86 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 15 | 5.86 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 15 | 5.86 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 15 | 5.86 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 10 | 5.86 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 10 | 5.86 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 10 | 5.86 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 11 | 5.86 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 11 | 5.86 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 11 | 5.86 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 10 | 5.85 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 10 | 5.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 10 | 5.85 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 10 | 5.85 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 10 | 5.85 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 7 | 5.84 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 7 | 5.84 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 7 | 5.84 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 12 | 5.83 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 12 | 5.83 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 8 | 5.83 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 8 | 5.83 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 8 | 5.83 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 8 | 5.83 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 8 | 5.83 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 8 | 5.83 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 4 | 5.82 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 4 | 5.82 |
| (2,634) | 1:740:B:ARG:HH21 | 1:743:B:ASP:OD1 | 3 | 5.79 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 1 | 5.79 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 1 | 5.79 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 1 | 5.79 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 1 | 5.79 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 1 | 5.79 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 1 | 5.79 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 7 | 5.78 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 7 | 5.78 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 7 | 5.78 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 7 | 5.78 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 7 | 5.78 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 7 | 5.78 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 10 | 5.77 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 10 | 5.77 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 10 | 5.77 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 10 | 5.77 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 10 | 5.77 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 10 | 5.77 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 13 | 5.77 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 13 | 5.77 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 13 | 5.77 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 13 | 5.77 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 13 | 5.77 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 13 | 5.77 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 1 | 5.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 1 | 5.76 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 1 | 5.76 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 13 | 5.76 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 13 | 5.76 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 13 | 5.76 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 13 | 5.76 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 13 | 5.76 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 13 | 5.76 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 14 | 5.75 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 14 | 5.75 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 14 | 5.75 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 2 | 5.74 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 2 | 5.74 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 2 | 5.74 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 2 | 5.74 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 2 | 5.74 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 2 | 5.74 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 10 | 5.74 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 10 | 5.74 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 10 | 5.74 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 10 | 5.74 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 10 | 5.74 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 10 | 5.74 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 9 | 5.73 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 9 | 5.73 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 12 | 5.73 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 12 | 5.73 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 12 | 5.73 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 14 | 5.71 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 14 | 5.71 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 14 | 5.71 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 14 | 5.71 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 14 | 5.71 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 14 | 5.71 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 6 | 5.69 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 6 | 5.69 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 6 | 5.69 |
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD2 | 15 | 5.65 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD2 | 15 | 5.65 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 14 | 5.65 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 14 | 5.65 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 14 | 5.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 9 | 5.63 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 9 | 5.63 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 9 | 5.63 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 9 | 5.62 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 9 | 5.62 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 9 | 5.62 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 7 | 5.6 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 7 | 5.6 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 7 | 5.6 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 7 | 5.6 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 7 | 5.6 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 7 | 5.6 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 1 | 5.59 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 1 | 5.59 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 1 | 5.59 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 1 | 5.59 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 1 | 5.59 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 1 | 5.59 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 1 | 5.59 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 1 | 5.59 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 1 | 5.59 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 3 | 5.58 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 3 | 5.58 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 5 | 5.58 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 5 | 5.58 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 5 | 5.58 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 5 | 5.58 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 5 | 5.58 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 5 | 5.58 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 3 | 5.57 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 3 | 5.57 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 3 | 5.57 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 2 | 5.57 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 2 | 5.57 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 2 | 5.57 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 2 | 5.57 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 2 | 5.57 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 2 | 5.57 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 6 | 5.54 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 6 | 5.54 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 6 | 5.54 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 6 | 5.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 6 | 5.54 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 6 | 5.54 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 9 | 5.53 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 9 | 5.53 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 9 | 5.53 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 9 | 5.53 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 9 | 5.53 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 9 | 5.53 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 9 | 5.53 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 9 | 5.53 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 9 | 5.53 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 1 | 5.52 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 1 | 5.52 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 1 | 5.52 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 1 | 5.52 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 1 | 5.52 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 1 | 5.52 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 4 | 5.52 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 4 | 5.52 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 4 | 5.52 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 6 | 5.5 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 6 | 5.5 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 12 | 5.5 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 12 | 5.5 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 12 | 5.5 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 12 | 5.5 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 12 | 5.5 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 12 | 5.5 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 2 | 5.46 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 2 | 5.46 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 2 | 5.46 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 12 | 5.42 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 12 | 5.42 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 12 | 5.42 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 12 | 5.42 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 12 | 5.42 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 12 | 5.42 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 1 | 5.41 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 1 | 5.41 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 1 | 5.41 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 1 | 5.41 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 1 | 5.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 1 | 5.41 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 1 | 5.41 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 1 | 5.41 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 1 | 5.41 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 12 | 5.4 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 12 | 5.4 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 12 | 5.4 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 12 | 5.4 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 12 | 5.4 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 12 | 5.4 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 13 | 5.38 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 13 | 5.38 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 13 | 5.38 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 13 | 5.38 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 13 | 5.38 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 13 | 5.38 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 11 | 5.36 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 11 | 5.36 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 11 | 5.36 |
| (2,638) | 1:780:B:ARG:HH21 | 1:783:B:GLU:OE2 | 13 | 5.34 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 13 | 5.34 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 13 | 5.34 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 13 | 5.34 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 7 | 5.34 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 7 | 5.34 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 7 | 5.34 |
| (2,1488) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE2 | 15 | 5.33 |
| (2,1063) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE2 | 15 | 5.33 |
| (2,80) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HA | 4 | 5.33 |
| (2,80) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HA | 4 | 5.33 |
| (2,80) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HA | 4 | 5.33 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 14 | 5.33 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 14 | 5.33 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 14 | 5.33 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 14 | 5.33 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 14 | 5.33 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 14 | 5.33 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 3 | 5.32 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 3 | 5.32 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 3 | 5.32 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 3 | 5.32 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 3 | 5.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 3 | 5.32 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD2 | 13 | 5.31 |
| (2,83) | 1:709:A:ARG:H | 1:714:A:PRO:HD3 | 13 | 5.31 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 13 | 5.28 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 13 | 5.28 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 13 | 5.28 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 13 | 5.28 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 13 | 5.28 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 13 | 5.28 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 13 | 5.28 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 13 | 5.28 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 13 | 5.28 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 14 | 5.28 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 14 | 5.28 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 6 | 5.27 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 6 | 5.27 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 6 | 5.27 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 6 | 5.27 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 6 | 5.27 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 6 | 5.27 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 6 | 5.27 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 6 | 5.27 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 6 | 5.27 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD1 | 15 | 5.24 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 9 | 5.23 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 9 | 5.23 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 9 | 5.23 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 9 | 5.23 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 9 | 5.23 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 9 | 5.23 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 11 | 5.2 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 11 | 5.2 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 11 | 5.2 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 11 | 5.2 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 11 | 5.2 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 11 | 5.2 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 11 | 5.2 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 11 | 5.2 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 11 | 5.2 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 14 | 5.18 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 14 | 5.18 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 14 | 5.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,638) | 1:780:B:ARG:HH21 | 1:783:B:GLU:OE2 | 11 | 5.14 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 5 | 5.14 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 5 | 5.14 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 5 | 5.14 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 5 | 5.14 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 5 | 5.14 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 5 | 5.14 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 9 | 5.13 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 9 | 5.13 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 9 | 5.13 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 9 | 5.13 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 9 | 5.13 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 9 | 5.13 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 11 | 5.12 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 11 | 5.12 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 11 | 5.12 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 11 | 5.12 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 11 | 5.12 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 11 | 5.12 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 8 | 5.06 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 8 | 5.06 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 8 | 5.06 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 8 | 5.06 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 8 | 5.06 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 8 | 5.06 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 13 | 5.03 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 13 | 5.03 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 13 | 5.03 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 13 | 5.03 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 13 | 5.03 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 13 | 5.03 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 13 | 5.03 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 13 | 5.03 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 13 | 5.03 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 3 | 5.03 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 3 | 5.03 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 3 | 5.03 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 3 | 5.03 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 3 | 5.03 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 3 | 5.03 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 13 | 5.03 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 13 | 5.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 13 | 5.03 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 13 | 5.03 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 13 | 5.03 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 13 | 5.03 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 4 | 5.02 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 4 | 5.02 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 4 | 5.02 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 3 | 5.0 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 3 | 5.0 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 3 | 5.0 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 3 | 5.0 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 3 | 5.0 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 3 | 5.0 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 3 | 5.0 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 3 | 5.0 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 3 | 5.0 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 2 | 4.99 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 2 | 4.99 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 2 | 4.99 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 2 | 4.99 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 2 | 4.99 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 2 | 4.99 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 6 | 4.98 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 6 | 4.98 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 6 | 4.98 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 6 | 4.98 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 6 | 4.98 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 6 | 4.98 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 4 | 4.97 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 4 | 4.97 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 4 | 4.97 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 4 | 4.97 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 4 | 4.97 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 4 | 4.97 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 4 | 4.97 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 4 | 4.97 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 4 | 4.97 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 8 | 4.97 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 8 | 4.97 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD2 | 4 | 4.96 |
| (2,77) | 1:708:A:VAL:HG21 | 1:714:A:PRO:HD3 | 4 | 4.96 |
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD2 | 4 | 4.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,77) | 1:708:A:VAL:HG22 | 1:714:A:PRO:HD3 | 4 | 4.96 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD2 | 4 | 4.96 |
| (2,77) | 1:708:A:VAL:HG23 | 1:714:A:PRO:HD3 | 4 | 4.96 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 12 | 4.96 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 12 | 4.96 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 12 | 4.96 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 12 | 4.96 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 12 | 4.96 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 12 | 4.96 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 12 | 4.95 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 12 | 4.95 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 12 | 4.95 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 12 | 4.95 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 12 | 4.95 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 12 | 4.95 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 8 | 4.92 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 8 | 4.92 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 8 | 4.92 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 8 | 4.92 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 8 | 4.92 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 8 | 4.92 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 14 | 4.92 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 14 | 4.92 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 14 | 4.92 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 14 | 4.92 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 14 | 4.92 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 14 | 4.92 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 14 | 4.91 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 14 | 4.91 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 14 | 4.91 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 14 | 4.91 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 14 | 4.91 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 14 | 4.91 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 14 | 4.91 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 14 | 4.91 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 14 | 4.91 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 13 | 4.91 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 13 | 4.91 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 13 | 4.91 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 2 | 4.91 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 2 | 4.91 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 2 | 4.91 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 2 | 4.91 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 2 | 4.91 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 2 | 4.91 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 2 | 4.91 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 2 | 4.91 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 2 | 4.91 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 1 | 4.9 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 1 | 4.9 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 1 | 4.9 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 12 | 4.9 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 12 | 4.9 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 12 | 4.9 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 10 | 4.89 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 10 | 4.89 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 10 | 4.89 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 10 | 4.89 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 10 | 4.89 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 10 | 4.89 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 10 | 4.89 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 10 | 4.89 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 10 | 4.89 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 10 | 4.89 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 10 | 4.89 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 10 | 4.89 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 10 | 4.89 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 10 | 4.89 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 10 | 4.89 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 12 | 4.88 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 12 | 4.88 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 12 | 4.88 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 12 | 4.88 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 12 | 4.88 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 12 | 4.88 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 12 | 4.88 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 12 | 4.88 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 12 | 4.88 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 14 | 4.88 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 14 | 4.88 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 14 | 4.88 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 14 | 4.88 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 14 | 4.88 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 14 | 4.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 14 | 4.88 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 14 | 4.88 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 14 | 4.88 |
| (2,1488) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE2 | 2 | 4.86 |
| (2,1063) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE2 | 2 | 4.86 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 10 | 4.86 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 10 | 4.86 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 10 | 4.86 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 1 | 4.86 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 1 | 4.86 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 1 | 4.86 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 1 | 4.86 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 1 | 4.86 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 1 | 4.86 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 8 | 4.86 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 8 | 4.86 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 8 | 4.86 |
| (2,1488) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE1 | 1 | 4.85 |
| (2,1063) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE1 | 1 | 4.85 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 5 | 4.85 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 5 | 4.85 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 5 | 4.85 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 5 | 4.85 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 5 | 4.85 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 5 | 4.85 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 5 | 4.85 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 5 | 4.85 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 5 | 4.85 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 5 | 4.85 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 5 | 4.85 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 5 | 4.85 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 5 | 4.85 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 5 | 4.85 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 5 | 4.85 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 5 | 4.85 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 5 | 4.85 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 5 | 4.85 |
| (2,635) | 1:744:B:ARG:HH11 | 1:741:B:ASP:OD2 | 7 | 4.83 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 4 | 4.83 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 4 | 4.83 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 4 | 4.83 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 4 | 4.83 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 4 | 4.83 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 4 | 4.83 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 4 | 4.83 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 4 | 4.83 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 4 | 4.83 |
| (2,635) | 1:744:B:ARG:HH11 | 1:741:B:ASP:OD1 | 10 | 4.82 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 7 | 4.81 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 7 | 4.81 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 7 | 4.81 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 7 | 4.81 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 7 | 4.81 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 7 | 4.81 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 6 | 4.79 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 6 | 4.79 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 6 | 4.79 |
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD2 | 5 | 4.77 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD2 | 5 | 4.77 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 8 | 4.77 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 8 | 4.77 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 8 | 4.77 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 14 | 4.74 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 14 | 4.74 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 14 | 4.74 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 14 | 4.74 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 14 | 4.74 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 14 | 4.74 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 14 | 4.73 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 14 | 4.73 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 14 | 4.73 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 9 | 4.7 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 9 | 4.7 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 9 | 4.7 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 9 | 4.7 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 9 | 4.7 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 9 | 4.7 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 9 | 4.68 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 9 | 4.68 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 9 | 4.68 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 9 | 4.68 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 9 | 4.68 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 9 | 4.68 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 9 | 4.68 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 9 | 4.68 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 9 | 4.68 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 11 | 4.66 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 11 | 4.66 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 11 | 4.66 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 1 | 4.63 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 1 | 4.63 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 1 | 4.63 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 1 | 4.63 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 1 | 4.63 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 1 | 4.63 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 1 | 4.63 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 1 | 4.63 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 1 | 4.63 |
| (2,638) | 1:780:B:ARG:HH21 | 1:783:B:GLU:OE2 | 8 | 4.62 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 7 | 4.61 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 7 | 4.61 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 7 | 4.61 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 15 | 4.59 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 15 | 4.59 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 15 | 4.59 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 2 | 4.57 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 2 | 4.57 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 2 | 4.57 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 2 | 4.57 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 2 | 4.57 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 2 | 4.57 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 2 | 4.57 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 2 | 4.57 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 2 | 4.57 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA2 | 11 | 4.57 |
| (2,57) | 1:696:A:ARG:HE | 1:694:B:GLY:HA3 | 11 | 4.57 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 15 | 4.57 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 15 | 4.57 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 15 | 4.57 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 15 | 4.57 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 15 | 4.57 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 15 | 4.57 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 5 | 4.56 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 5 | 4.56 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 5 | 4.56 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 11 | 4.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 11 | 4.56 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 11 | 4.56 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 11 | 4.56 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 11 | 4.56 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 11 | 4.56 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 11 | 4.56 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 11 | 4.56 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 11 | 4.56 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 8 | 4.55 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 8 | 4.55 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 8 | 4.55 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 8 | 4.55 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 8 | 4.55 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 8 | 4.55 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 8 | 4.55 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 8 | 4.55 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 8 | 4.55 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 4 | 4.54 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 4 | 4.54 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 4 | 4.54 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 6 | 4.53 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 6 | 4.53 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 6 | 4.53 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 2 | 4.5 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 2 | 4.5 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 2 | 4.5 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 1 | 4.48 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 1 | 4.48 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 1 | 4.48 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 11 | 4.47 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 11 | 4.47 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 11 | 4.47 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 3 | 4.47 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 3 | 4.47 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 3 | 4.47 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 3 | 4.47 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 3 | 4.47 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 3 | 4.47 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 3 | 4.47 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 3 | 4.47 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 3 | 4.47 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 9 | 4.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 9 | 4.43 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 10 | 4.38 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 10 | 4.38 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 10 | 4.38 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 10 | 4.37 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 10 | 4.37 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 10 | 4.37 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 10 | 4.37 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 10 | 4.37 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 10 | 4.37 |
| (2,638) | 1:780:B:ARG:HH21 | 1:783:B:GLU:OE2 | 7 | 4.34 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 12 | 4.33 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 12 | 4.33 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 12 | 4.33 |
| (2,636) | 1:761:B:ARG:HH11 | 1:758:B:ASP:OD2 | 15 | 4.32 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 7 | 4.31 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 7 | 4.31 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 7 | 4.31 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 11 | 4.3 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 11 | 4.3 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 11 | 4.3 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 11 | 4.3 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 11 | 4.3 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 11 | 4.3 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 12 | 4.28 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 12 | 4.28 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 2 | 4.26 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 2 | 4.26 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 2 | 4.26 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 8 | 4.25 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 8 | 4.25 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 8 | 4.25 |
| (2,634) | 1:740:B:ARG:HH11 | 1:743:B:ASP:OD1 | 14 | 4.24 |
| (2,634) | 1:740:B:ARG:HH21 | 1:743:B:ASP:OD2 | 5 | 4.23 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 9 | 4.23 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 9 | 4.23 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 9 | 4.23 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 9 | 4.23 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 9 | 4.23 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 9 | 4.23 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 6 | 4.22 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 6 | 4.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 6 | 4.22 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 6 | 4.22 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 6 | 4.22 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 6 | 4.22 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 12 | 4.21 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 12 | 4.21 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 12 | 4.21 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 12 | 4.21 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 12 | 4.21 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 12 | 4.21 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 13 | 4.2 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 13 | 4.2 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 13 | 4.2 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD1 | 13 | 4.19 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 14 | 4.18 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 14 | 4.18 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 14 | 4.18 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 3 | 4.15 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 3 | 4.15 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 3 | 4.15 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 4 | 4.15 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 4 | 4.15 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 4 | 4.15 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 4 | 4.15 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 4 | 4.15 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 4 | 4.15 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 12 | 4.15 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 12 | 4.15 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 12 | 4.15 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 9 | 4.14 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 9 | 4.14 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 9 | 4.14 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 9 | 4.14 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 9 | 4.14 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 9 | 4.14 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD2 | 11 | 4.12 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 8 | 4.11 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 8 | 4.11 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 8 | 4.11 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 8 | 4.11 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 8 | 4.11 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 8 | 4.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 6 | 4.11 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 6 | 4.11 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 6 | 4.11 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 6 | 4.11 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 6 | 4.11 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 6 | 4.11 |
| (2,39) | 1:692:A:LEU:HD21 | 1:694:B:GLY:H | 8 | 4.1 |
| (2,39) | 1:692:A:LEU:HD22 | 1:694:B:GLY:H | 8 | 4.1 |
| (2,39) | 1:692:A:LEU:HD23 | 1:694:B:GLY:H | 8 | 4.1 |
| (2,1484) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 10 | 4.09 |
| (2,1059) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 10 | 4.09 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 3 | 4.06 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 3 | 4.06 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 3 | 4.06 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 3 | 4.06 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 3 | 4.06 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 3 | 4.06 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 15 | 4.06 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 15 | 4.06 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 15 | 4.06 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 15 | 4.06 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 15 | 4.06 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 15 | 4.06 |
| (2,638) | 1:780:B:ARG:HH11 | 1:783:B:GLU:OE1 | 6 | 4.05 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 15 | 4.04 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 15 | 4.04 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 15 | 4.04 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 15 | 4.04 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 15 | 4.04 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 15 | 4.04 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 4 | 4.03 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 4 | 4.03 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 4 | 4.03 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 4 | 4.03 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 4 | 4.03 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 4 | 4.03 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 4 | 4.03 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 4 | 4.03 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 4 | 4.03 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 4 | 4.03 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 4 | 4.03 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 4 | 4.03 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 13 | 4.01 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 13 | 4.01 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 13 | 4.01 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 13 | 4.01 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 13 | 4.01 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 13 | 4.01 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 7 | 4.0 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 7 | 4.0 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 7 | 4.0 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 7 | 4.0 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 7 | 4.0 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 7 | 4.0 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 7 | 4.0 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 7 | 4.0 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 7 | 4.0 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 15 | 4.0 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 15 | 4.0 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 15 | 4.0 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 15 | 4.0 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 15 | 4.0 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 15 | 4.0 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 15 | 4.0 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 15 | 4.0 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 15 | 4.0 |
| (2,1487) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD2 | 3 | 3.98 |
| (2,1062) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD2 | 3 | 3.98 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 3 | 3.98 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 3 | 3.98 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 3 | 3.98 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 5 | 3.98 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 5 | 3.98 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 7 | 3.97 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 7 | 3.97 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 7 | 3.97 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 7 | 3.97 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 7 | 3.97 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 7 | 3.97 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 9 | 3.95 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 9 | 3.95 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 9 | 3.95 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 13 | 3.92 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 13 | 3.92 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 13 | 3.92 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 9 | 3.91 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 9 | 3.91 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 9 | 3.91 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 1 | 3.91 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 1 | 3.91 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 1 | 3.91 |
| (2,634) | 1:740:B:ARG:HH21 | 1:743:B:ASP:OD2 | 15 | 3.9 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 5 | 3.9 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 5 | 3.9 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 5 | 3.9 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 5 | 3.9 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 5 | 3.9 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 5 | 3.9 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 15 | 3.89 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 15 | 3.89 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 15 | 3.89 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 3 | 3.88 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 3 | 3.88 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 3 | 3.88 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 3 | 3.88 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 3 | 3.88 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 3 | 3.88 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 2 | 3.88 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 2 | 3.88 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 2 | 3.88 |
| (2,1488) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE1 | 7 | 3.86 |
| (2,1063) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE1 | 7 | 3.86 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 5 | 3.86 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 5 | 3.86 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 5 | 3.86 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 2 | 3.85 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 2 | 3.85 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 2 | 3.85 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 2 | 3.85 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 2 | 3.85 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 2 | 3.85 |
| (2,1485) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD2 | 8 | 3.84 |
| (2,1060) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD2 | 8 | 3.84 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 3 | 3.84 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 3 | 3.84 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 3 | 3.84 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 3 | 3.84 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 3 | 3.84 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 3 | 3.84 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 8 | 3.82 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 8 | 3.82 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 8 | 3.82 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 8 | 3.82 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 8 | 3.82 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 8 | 3.82 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 6 | 3.81 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 6 | 3.81 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 6 | 3.81 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 6 | 3.81 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 6 | 3.81 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 6 | 3.81 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 6 | 3.81 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 6 | 3.81 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 6 | 3.81 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 7 | 3.8 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 7 | 3.8 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 7 | 3.8 |
| (2,1488) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE2 | 6 | 3.79 |
| (2,1063) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE2 | 6 | 3.79 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 5 | 3.79 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 5 | 3.79 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 5 | 3.79 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 5 | 3.79 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 5 | 3.79 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 5 | 3.79 |
| (2,634) | 1:740:B:ARG:HH11 | 1:743:B:ASP:OD1 | 9 | 3.78 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 15 | 3.78 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 15 | 3.78 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 15 | 3.78 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 15 | 3.78 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 15 | 3.78 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 15 | 3.78 |
| (2,1484) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD1 | 3 | 3.77 |
| (2,1059) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD1 | 3 | 3.77 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 6 | 3.76 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 6 | 3.76 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 6 | 3.76 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 6 | 3.76 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 6 | 3.76 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 6 | 3.76 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 2 | 3.76 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 2 | 3.76 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 4 | 3.75 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 4 | 3.75 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 4 | 3.75 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 4 | 3.75 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 4 | 3.75 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 4 | 3.75 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 6 | 3.75 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 6 | 3.75 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD1 | 8 | 3.74 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 2 | 3.74 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 2 | 3.74 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 2 | 3.74 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 2 | 3.74 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 2 | 3.74 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 2 | 3.74 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 10 | 3.74 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 10 | 3.74 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 10 | 3.74 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 10 | 3.74 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 10 | 3.74 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 10 | 3.74 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 10 | 3.73 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 10 | 3.73 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 10 | 3.73 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 10 | 3.73 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 10 | 3.73 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 10 | 3.73 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 13 | 3.73 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 13 | 3.73 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 9 | 3.72 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 9 | 3.72 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 9 | 3.72 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 9 | 3.72 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 9 | 3.72 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 9 | 3.72 |
| (2,634) | 1:740:B:ARG:HH11 | 1:743:B:ASP:OD2 | 2 | 3.71 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 10 | 3.69 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 10 | 3.69 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 10 | 3.69 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 10 | 3.69 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 10 | 3.69 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 10 | 3.69 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 14 | 3.69 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 14 | 3.69 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 14 | 3.69 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 14 | 3.69 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 14 | 3.69 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 14 | 3.69 |
| (2,2) | 1:661:A:LEU:HD11 | 1:680:A:TRP:HE1 | 11 | 3.68 |
| (2,2) | 1:661:A:LEU:HD12 | 1:680:A:TRP:HE1 | 11 | 3.68 |
| (2,2) | 1:661:A:LEU:HD13 | 1:680:A:TRP:HE1 | 11 | 3.68 |
| (2,2) | 1:661:A:LEU:HD21 | 1:680:A:TRP:HE1 | 11 | 3.68 |
| (2,2) | 1:661:A:LEU:HD22 | 1:680:A:TRP:HE1 | 11 | 3.68 |
| (2,2) | 1:661:A:LEU:HD23 | 1:680:A:TRP:HE1 | 11 | 3.68 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 8 | 3.67 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 8 | 3.67 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 8 | 3.67 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 8 | 3.67 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 8 | 3.67 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 8 | 3.67 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 8 | 3.67 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 8 | 3.67 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 8 | 3.67 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 14 | 3.65 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 14 | 3.65 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 14 | 3.65 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 14 | 3.65 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 14 | 3.65 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 14 | 3.65 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 15 | 3.65 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 15 | 3.65 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 15 | 3.65 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 4 | 3.63 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 4 | 3.63 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 4 | 3.63 |
| (2,637) | 1:770:B:ARG:HH11 | 1:773:B:ASP:OD2 | 15 | 3.62 |
| (2,1484) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD1 | 5 | 3.61 |
| (2,1059) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD1 | 5 | 3.61 |
| (2,636) | 1:761:B:ARG:HH22 | 1:758:B:ASP:OD2 | 3 | 3.61 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD21 | 8 | 3.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD22 | 8 | 3.6 |
| (2,49) | 1:694:B:GLY:H | 1:692:A:LEU:HD23 | 8 | 3.6 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 3 | 3.6 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 3 | 3.6 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 3 | 3.6 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 3 | 3.6 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 3 | 3.6 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 3 | 3.6 |
| (2,1488) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE1 | 8 | 3.58 |
| (2,1063) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE1 | 8 | 3.58 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 4 | 3.58 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 4 | 3.58 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 4 | 3.57 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 4 | 3.57 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 4 | 3.57 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 4 | 3.57 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 4 | 3.57 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 4 | 3.57 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 2 | 3.56 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 2 | 3.56 |
| (2,1488) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE2 | 3 | 3.54 |
| (2,1063) | 1:780:A:ARG:HH21 | 1:783:A:GLU:OE2 | 3 | 3.54 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 5 | 3.54 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 5 | 3.54 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 5 | 3.54 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD1 | 6 | 3.53 |
| (2,634) | 1:740:B:ARG:HH11 | 1:743:B:ASP:OD2 | 13 | 3.52 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG21 | 4 | 3.52 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG22 | 4 | 3.52 |
| (2,88) | 1:713:A:SER:H | 1:708:A:VAL:HG23 | 4 | 3.52 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 11 | 3.51 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 11 | 3.51 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 11 | 3.51 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB2 | 6 | 3.5 |
| (2,67) | 1:704:B:LEU:HD21 | 1:706:A:ASN:HB3 | 6 | 3.5 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB2 | 6 | 3.5 |
| (2,67) | 1:704:B:LEU:HD22 | 1:706:A:ASN:HB3 | 6 | 3.5 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB2 | 6 | 3.5 |
| (2,67) | 1:704:B:LEU:HD23 | 1:706:A:ASN:HB3 | 6 | 3.5 |
| (2,1488) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE2 | 13 | 3.49 |
| (2,1063) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE2 | 13 | 3.49 |
| (2,1484) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 9 | 3.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1059) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 9 | 3.48 |
| (2,634) | 1:740:B:ARG:HH11 | 1:743:B:ASP:OD1 | 10 | 3.48 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 14 | 3.48 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 14 | 3.48 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 14 | 3.48 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 14 | 3.48 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 14 | 3.48 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 14 | 3.48 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 2 | 3.48 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 2 | 3.48 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 2 | 3.48 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 2 | 3.48 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 2 | 3.48 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 2 | 3.48 |
| (2,1484) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD2 | 15 | 3.47 |
| (2,1059) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD2 | 15 | 3.47 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 15 | 3.47 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 15 | 3.47 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 15 | 3.47 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 14 | 3.46 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 14 | 3.46 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 14 | 3.46 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 3 | 3.46 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 3 | 3.46 |
| (2,1484) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 14 | 3.43 |
| (2,1059) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 14 | 3.43 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD2 | 11 | 3.43 |
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 10 | 3.42 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 10 | 3.42 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 10 | 3.42 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 10 | 3.42 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 10 | 3.42 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 10 | 3.42 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 6 | 3.41 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 6 | 3.41 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 6 | 3.41 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 6 | 3.41 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 6 | 3.41 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 6 | 3.41 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 9 | 3.41 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 9 | 3.41 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 9 | 3.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|---------------------|---------------------|----------|---------------|
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 9 | 3.41 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 9 | 3.41 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 9 | 3.41 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 5 | 3.39 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 5 | 3.39 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 5 | 3.39 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 5 | 3.39 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 5 | 3.39 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 5 | 3.39 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 7 | 3.39 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 7 | 3.39 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 7 | 3.39 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 7 | 3.39 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 7 | 3.39 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 7 | 3.39 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 5 | 3.38 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 5 | 3.38 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 5 | 3.38 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 5 | 3.38 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 5 | 3.38 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 5 | 3.38 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 1 | 3.38 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 1 | 3.38 |
| (2,634) | 1:740:B:ARG:HH11 | 1:743:B:ASP:OD1 | 6 | 3.36 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 12 | 3.35 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 12 | 3.35 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 8 | 3.35 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 8 | 3.35 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 8 | 3.35 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB1 | 7 | 3.34 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB2 | 7 | 3.34 |
| (2,66) | 1:702:A:LEU:HD21 | 1:700:B:ALA:HB3 | 7 | 3.34 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB1 | 7 | 3.34 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB2 | 7 | 3.34 |
| (2,66) | 1:702:A:LEU:HD22 | 1:700:B:ALA:HB3 | 7 | 3.34 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB1 | 7 | 3.34 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB2 | 7 | 3.34 |
| (2,66) | 1:702:A:LEU:HD23 | 1:700:B:ALA:HB3 | 7 | 3.34 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG21 | 10 | 3.33 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG22 | 10 | 3.33 |
| (2,31) | 1:687:B:ILE:HG21 | 1:689:A:VAL:HG23 | 10 | 3.33 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG21 | 10 | 3.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG22 | 10 | 3.33 |
| (2,31) | 1:687:B:ILE:HG22 | 1:689:A:VAL:HG23 | 10 | 3.33 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG21 | 10 | 3.33 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG22 | 10 | 3.33 |
| (2,31) | 1:687:B:ILE:HG23 | 1:689:A:VAL:HG23 | 10 | 3.33 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD2 | 8 | 3.32 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 12 | 3.32 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 12 | 3.32 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 12 | 3.32 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 12 | 3.31 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 12 | 3.31 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 12 | 3.31 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 12 | 3.31 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 12 | 3.31 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 12 | 3.31 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 9 | 3.3 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 9 | 3.3 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 9 | 3.3 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 9 | 3.3 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 9 | 3.3 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 9 | 3.3 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 1 | 3.3 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 1 | 3.3 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 1 | 3.3 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 1 | 3.3 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 1 | 3.3 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 1 | 3.3 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 13 | 3.27 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 13 | 3.27 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 13 | 3.27 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 13 | 3.27 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 13 | 3.27 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 13 | 3.27 |
| (2,634) | 1:740:B:ARG:HH21 | 1:743:B:ASP:OD2 | 8 | 3.26 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 2 | 3.26 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 2 | 3.26 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 2 | 3.26 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 2 | 3.26 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 2 | 3.26 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 2 | 3.26 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 15 | 3.26 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 15 | 3.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 12 | 3.24 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 12 | 3.24 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 9 | 3.24 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 9 | 3.24 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 9 | 3.24 |
| (2,1485) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD1 | 7 | 3.23 |
| (2,1060) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD1 | 7 | 3.23 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 8 | 3.22 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 8 | 3.22 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 8 | 3.22 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 8 | 3.22 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 8 | 3.22 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 8 | 3.22 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 11 | 3.21 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 11 | 3.21 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 11 | 3.21 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 11 | 3.21 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 11 | 3.21 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 11 | 3.21 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 7 | 3.21 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 7 | 3.21 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 7 | 3.21 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 7 | 3.21 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 7 | 3.21 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 7 | 3.21 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 8 | 3.2 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 8 | 3.2 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 8 | 3.2 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 8 | 3.2 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 8 | 3.2 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 8 | 3.2 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 7 | 3.19 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 7 | 3.19 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 7 | 3.19 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 7 | 3.19 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 7 | 3.19 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 7 | 3.19 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 3 | 3.18 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 3 | 3.18 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 3 | 3.18 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 3 | 3.18 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 3 | 3.18 |

*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 3 | 3.18 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 15 | 3.18 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 15 | 3.18 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 15 | 3.18 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD2 | 9 | 3.17 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD1 | 10 | 3.17 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 10 | 3.17 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 10 | 3.17 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 15 | 3.15 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 15 | 3.15 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 15 | 3.15 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 15 | 3.15 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 15 | 3.15 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 15 | 3.15 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 15 | 3.14 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 15 | 3.14 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 15 | 3.14 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 15 | 3.14 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 15 | 3.14 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 15 | 3.14 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD1 | 2 | 3.12 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 13 | 3.11 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 13 | 3.11 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 13 | 3.11 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 13 | 3.11 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 13 | 3.11 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 13 | 3.11 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 11 | 3.11 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 11 | 3.11 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 11 | 3.11 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 11 | 3.11 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 11 | 3.11 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 11 | 3.11 |
| (2,634) | 1:740:B:ARG:HH21 | 1:743:B:ASP:OD2 | 11 | 3.1 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 15 | 3.1 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 15 | 3.1 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 15 | 3.1 |
| (2,1484) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 8 | 3.08 |
| (2,1059) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 8 | 3.08 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 12 | 3.08 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 12 | 3.08 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 12 | 3.08 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 2 | 3.08 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 2 | 3.08 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 10 | 3.06 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 10 | 3.06 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 10 | 3.06 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 10 | 3.06 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 10 | 3.06 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 10 | 3.06 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 7 | 3.05 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 7 | 3.05 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 7 | 3.05 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 13 | 3.02 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 13 | 3.02 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 13 | 3.02 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 13 | 3.02 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 13 | 3.02 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 13 | 3.02 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 1 | 3.01 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 1 | 3.01 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 1 | 3.01 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 1 | 3.01 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 1 | 3.01 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 1 | 3.01 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 13 | 3.01 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 13 | 3.01 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 15 | 3.0 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 15 | 3.0 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 15 | 3.0 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 15 | 3.0 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 15 | 3.0 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 15 | 3.0 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 15 | 3.0 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 15 | 3.0 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 15 | 3.0 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 9 | 2.99 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 9 | 2.99 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 9 | 2.99 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 9 | 2.99 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 9 | 2.99 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 9 | 2.99 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 9 | 2.99 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 9 | 2.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 9 | 2.99 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 12 | 2.99 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 12 | 2.99 |
| (2,1487) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD1 | 8 | 2.98 |
| (2,1062) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD1 | 8 | 2.98 |
| (2,1488) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE1 | 5 | 2.97 |
| (2,1063) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE1 | 5 | 2.97 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 3 | 2.97 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 3 | 2.97 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 3 | 2.97 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 3 | 2.97 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 3 | 2.97 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 3 | 2.97 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB2 | 1 | 2.97 |
| (2,61) | 1:700:B:ALA:HB1 | 1:702:A:LEU:HB3 | 1 | 2.97 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB2 | 1 | 2.97 |
| (2,61) | 1:700:B:ALA:HB2 | 1:702:A:LEU:HB3 | 1 | 2.97 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB2 | 1 | 2.97 |
| (2,61) | 1:700:B:ALA:HB3 | 1:702:A:LEU:HB3 | 1 | 2.97 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 1 | 2.97 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 1 | 2.97 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 1 | 2.97 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 1 | 2.97 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 1 | 2.97 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 1 | 2.97 |
| (2,1487) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD1 | 7 | 2.96 |
| (2,1062) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD1 | 7 | 2.96 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 15 | 2.94 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 15 | 2.94 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 15 | 2.94 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 15 | 2.94 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 15 | 2.94 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 15 | 2.94 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 1 | 2.94 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 1 | 2.94 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 1 | 2.94 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 1 | 2.94 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 1 | 2.94 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 1 | 2.94 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 1 | 2.94 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 1 | 2.94 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 1 | 2.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 10 | 2.93 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 10 | 2.93 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 10 | 2.93 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 10 | 2.93 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 10 | 2.93 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 10 | 2.93 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 14 | 2.92 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 14 | 2.92 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 14 | 2.92 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 14 | 2.92 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 14 | 2.92 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 14 | 2.92 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 11 | 2.92 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 11 | 2.92 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 11 | 2.92 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 11 | 2.92 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 11 | 2.92 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 11 | 2.92 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 12 | 2.91 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 12 | 2.91 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 12 | 2.91 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 12 | 2.91 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 12 | 2.91 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 12 | 2.91 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 7 | 2.91 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 7 | 2.91 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 7 | 2.91 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 7 | 2.91 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 7 | 2.91 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 7 | 2.91 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 2 | 2.91 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 2 | 2.91 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 15 | 2.89 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 15 | 2.89 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 15 | 2.89 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 15 | 2.89 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 15 | 2.89 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 15 | 2.89 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD2 | 3 | 2.86 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 5 | 2.86 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 5 | 2.86 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 13 | 2.86 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 13 | 2.86 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 13 | 2.86 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 7 | 2.86 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 7 | 2.86 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 13 | 2.84 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 13 | 2.84 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 13 | 2.84 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 13 | 2.84 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 13 | 2.84 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 13 | 2.84 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 3 | 2.84 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 3 | 2.84 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 3 | 2.84 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 3 | 2.84 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 3 | 2.84 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 3 | 2.84 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 4 | 2.83 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 4 | 2.83 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 4 | 2.83 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 4 | 2.83 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 4 | 2.83 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 4 | 2.83 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 2 | 2.82 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 2 | 2.82 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 2 | 2.82 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 2 | 2.82 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 2 | 2.82 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 2 | 2.82 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH21 | 6 | 2.82 |
| (2,46) | 1:693:B:ILE:HD11 | 1:696:A:ARG:HH22 | 6 | 2.82 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH21 | 6 | 2.82 |
| (2,46) | 1:693:B:ILE:HD12 | 1:696:A:ARG:HH22 | 6 | 2.82 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH21 | 6 | 2.82 |
| (2,46) | 1:693:B:ILE:HD13 | 1:696:A:ARG:HH22 | 6 | 2.82 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 14 | 2.82 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 14 | 2.82 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 6 | 2.81 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 6 | 2.81 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 6 | 2.81 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 6 | 2.81 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 6 | 2.81 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 6 | 2.81 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,3) | 1:661:A:LEU:HD11 | 1:680:B:TRP:HE1 | 4 | 2.81 |
| (2,3) | 1:661:A:LEU:HD12 | 1:680:B:TRP:HE1 | 4 | 2.81 |
| (2,3) | 1:661:A:LEU:HD13 | 1:680:B:TRP:HE1 | 4 | 2.81 |
| (2,3) | 1:661:A:LEU:HD21 | 1:680:B:TRP:HE1 | 4 | 2.81 |
| (2,3) | 1:661:A:LEU:HD22 | 1:680:B:TRP:HE1 | 4 | 2.81 |
| (2,3) | 1:661:A:LEU:HD23 | 1:680:B:TRP:HE1 | 4 | 2.81 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 8 | 2.79 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 8 | 2.79 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 8 | 2.79 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 8 | 2.79 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 8 | 2.79 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 8 | 2.79 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 5 | 2.78 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 5 | 2.78 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 5 | 2.78 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 5 | 2.78 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 5 | 2.78 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 5 | 2.78 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 11 | 2.77 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 11 | 2.77 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 11 | 2.77 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 11 | 2.77 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 11 | 2.77 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 11 | 2.77 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 6 | 2.77 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 6 | 2.77 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 6 | 2.77 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 6 | 2.77 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 6 | 2.77 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 6 | 2.77 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 6 | 2.77 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 6 | 2.77 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 6 | 2.77 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 11 | 2.77 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 11 | 2.77 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 4 | 2.76 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 4 | 2.76 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 4 | 2.76 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 4 | 2.76 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 4 | 2.76 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 4 | 2.76 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 4 | 2.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 4 | 2.75 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 4 | 2.75 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 4 | 2.75 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 4 | 2.75 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 4 | 2.75 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 4 | 2.75 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 4 | 2.75 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 4 | 2.75 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 11 | 2.74 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 11 | 2.74 |
| (2,1485) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD2 | 4 | 2.73 |
| (2,1060) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD2 | 4 | 2.73 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 14 | 2.73 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 14 | 2.73 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 14 | 2.73 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD1 | 4 | 2.72 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 13 | 2.72 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 13 | 2.72 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 13 | 2.72 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 13 | 2.72 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 13 | 2.72 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 13 | 2.72 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 9 | 2.72 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 9 | 2.72 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 9 | 2.72 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 9 | 2.72 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 9 | 2.72 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 9 | 2.72 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 15 | 2.72 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 15 | 2.72 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 10 | 2.71 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 10 | 2.71 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 10 | 2.71 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 3 | 2.71 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 3 | 2.71 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 9 | 2.7 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 9 | 2.7 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 9 | 2.7 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 9 | 2.7 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 9 | 2.7 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 9 | 2.7 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 6 | 2.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 6 | 2.7 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 6 | 2.7 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 6 | 2.7 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 6 | 2.7 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 6 | 2.7 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 7 | 2.68 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 7 | 2.68 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD2 | 3 | 2.67 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD2 | 3 | 2.67 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 10 | 2.64 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 10 | 2.64 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 10 | 2.64 |
| (2,1486) | 1:761:A:ARG:HH22 | 1:758:A:ASP:OD1 | 13 | 2.6 |
| (2,1061) | 1:761:A:ARG:HH22 | 1:758:A:ASP:OD1 | 13 | 2.6 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 5 | 2.6 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 5 | 2.6 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 2 | 2.58 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 2 | 2.58 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 2 | 2.58 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 2 | 2.58 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 2 | 2.58 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 2 | 2.58 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 2 | 2.58 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 2 | 2.58 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 2 | 2.58 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 10 | 2.58 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 10 | 2.58 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 10 | 2.58 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 10 | 2.58 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 10 | 2.58 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 10 | 2.58 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 10 | 2.58 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 10 | 2.58 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 10 | 2.58 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 4 | 2.58 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 4 | 2.58 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 7 | 2.57 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 7 | 2.57 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 7 | 2.57 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 6 | 2.56 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 6 | 2.56 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 15 | 2.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 15 | 2.56 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 14 | 2.56 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 14 | 2.56 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 12 | 2.55 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 12 | 2.55 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 12 | 2.55 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 12 | 2.55 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 12 | 2.55 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 12 | 2.55 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 4 | 2.53 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 4 | 2.53 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 4 | 2.53 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 13 | 2.53 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 13 | 2.53 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 2 | 2.52 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 2 | 2.52 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 2 | 2.52 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 2 | 2.52 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 2 | 2.52 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 2 | 2.52 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 4 | 2.5 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 4 | 2.5 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 4 | 2.5 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 7 | 2.5 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 7 | 2.5 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 3 | 2.48 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 3 | 2.48 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 3 | 2.48 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 3 | 2.48 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 3 | 2.48 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 3 | 2.48 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 3 | 2.48 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 3 | 2.48 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 3 | 2.48 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 14 | 2.48 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 14 | 2.48 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 14 | 2.48 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 14 | 2.48 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 14 | 2.48 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 14 | 2.48 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 14 | 2.48 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 14 | 2.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 14 | 2.48 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 11 | 2.48 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 11 | 2.48 |
| (2,1487) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD1 | 1 | 2.47 |
| (2,1062) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD1 | 1 | 2.47 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 14 | 2.47 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 14 | 2.47 |
| (2,1487) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD2 | 13 | 2.45 |
| (2,1062) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD2 | 13 | 2.45 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 14 | 2.44 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 14 | 2.44 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 14 | 2.44 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 14 | 2.44 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 14 | 2.44 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 14 | 2.44 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 1 | 2.44 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 1 | 2.44 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 11 | 2.43 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 11 | 2.43 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 11 | 2.43 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 11 | 2.43 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 11 | 2.43 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 11 | 2.43 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 11 | 2.43 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 11 | 2.43 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 11 | 2.43 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 2 | 2.43 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 2 | 2.43 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 2 | 2.43 |
| (2,1487) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD2 | 15 | 2.42 |
| (2,1062) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD2 | 15 | 2.42 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 2 | 2.42 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 2 | 2.42 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 2 | 2.42 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 12 | 2.41 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 12 | 2.41 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 12 | 2.41 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 12 | 2.41 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 12 | 2.41 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 12 | 2.41 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 12 | 2.41 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 12 | 2.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 12 | 2.41 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 5 | 2.4 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 5 | 2.4 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 5 | 2.4 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 5 | 2.4 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 5 | 2.4 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 5 | 2.4 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 5 | 2.4 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 5 | 2.4 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 5 | 2.4 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 3 | 2.39 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 3 | 2.39 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 3 | 2.39 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE1 | 7 | 2.38 |
| (2,73) | 1:708:B:VAL:HG21 | 1:712:A:TYR:HE2 | 7 | 2.38 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE1 | 7 | 2.38 |
| (2,73) | 1:708:B:VAL:HG22 | 1:712:A:TYR:HE2 | 7 | 2.38 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE1 | 7 | 2.38 |
| (2,73) | 1:708:B:VAL:HG23 | 1:712:A:TYR:HE2 | 7 | 2.38 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD1 | 3 | 2.38 |
| (2,58) | 1:700:B:ALA:HB1 | 1:699:A:PHE:HD2 | 3 | 2.38 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD1 | 3 | 2.38 |
| (2,58) | 1:700:B:ALA:HB2 | 1:699:A:PHE:HD2 | 3 | 2.38 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD1 | 3 | 2.38 |
| (2,58) | 1:700:B:ALA:HB3 | 1:699:A:PHE:HD2 | 3 | 2.38 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD11 | 6 | 2.38 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD12 | 6 | 2.38 |
| (2,54) | 1:696:A:ARG:H | 1:693:B:ILE:HD13 | 6 | 2.38 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 14 | 2.37 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 14 | 2.37 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 14 | 2.37 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 14 | 2.37 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 14 | 2.37 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 14 | 2.37 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 13 | 2.36 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 13 | 2.36 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 13 | 2.36 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 13 | 2.36 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 13 | 2.36 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 13 | 2.36 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 13 | 2.34 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 13 | 2.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 13 | 2.34 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 13 | 2.34 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 13 | 2.34 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 13 | 2.34 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 13 | 2.34 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 13 | 2.34 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 13 | 2.34 |
| (2,1488) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE2 | 10 | 2.32 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD2 | 14 | 2.32 |
| (2,1063) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE2 | 10 | 2.32 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD2 | 14 | 2.32 |
| (2,636) | 1:761:B:ARG:HH12 | 1:758:B:ASP:OD2 | 12 | 2.32 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 1 | 2.32 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 1 | 2.32 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 1 | 2.32 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 8 | 2.31 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 8 | 2.31 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 3 | 2.31 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 3 | 2.31 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 3 | 2.31 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 15 | 2.29 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 15 | 2.29 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 15 | 2.29 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 15 | 2.29 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 15 | 2.29 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 15 | 2.29 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 9 | 2.27 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 9 | 2.27 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD1 | 2 | 2.26 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 10 | 2.22 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 10 | 2.22 |
| (2,1487) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD1 | 14 | 2.21 |
| (2,1062) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD1 | 14 | 2.21 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 1 | 2.21 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 1 | 2.21 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 1 | 2.21 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 1 | 2.21 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 1 | 2.21 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 1 | 2.21 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 8 | 2.21 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 8 | 2.21 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 11 | 2.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 11 | 2.16 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 11 | 2.16 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 11 | 2.16 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 11 | 2.16 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 11 | 2.16 |
| (2,1484) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD2 | 1 | 2.15 |
| (2,1059) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD2 | 1 | 2.15 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 15 | 2.15 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 15 | 2.15 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 15 | 2.15 |
| (2,634) | 1:740:B:ARG:HH21 | 1:743:B:ASP:OD2 | 7 | 2.12 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 8 | 2.12 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 8 | 2.12 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 8 | 2.12 |
| (2,1487) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD1 | 11 | 2.1 |
| (2,1062) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD1 | 11 | 2.1 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 8 | 2.1 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 8 | 2.1 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 8 | 2.1 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 8 | 2.1 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 8 | 2.1 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 8 | 2.1 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 8 | 2.1 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 8 | 2.1 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 8 | 2.1 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 9 | 2.1 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 9 | 2.1 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB2 | 15 | 2.1 |
| (2,8) | 1:664:A:ASP:H | 1:660:A:LEU:HB3 | 15 | 2.1 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 7 | 2.08 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 7 | 2.08 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 7 | 2.08 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 7 | 2.08 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 7 | 2.08 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 7 | 2.08 |
| (2,638) | 1:780:B:ARG:HH11 | 1:783:B:GLU:OE2 | 12 | 2.06 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 4 | 2.06 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 4 | 2.06 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 13 | 2.06 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 13 | 2.06 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 13 | 2.06 |
| (2,1488) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE1 | 12 | 2.05 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1063) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE1 | 12 | 2.05 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 3 | 2.03 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 3 | 2.03 |
| (2,638) | 1:780:B:ARG:HH11 | 1:783:B:GLU:OE2 | 9 | 2.02 |
| (2,636) | 1:761:B:ARG:HH11 | 1:758:B:ASP:OD2 | 7 | 2.02 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 8 | 2.02 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 8 | 2.02 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 8 | 2.02 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 8 | 2.02 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 8 | 2.02 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 8 | 2.02 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 6 | 2.02 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 6 | 2.02 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 6 | 2.02 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 5 | 2.02 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 5 | 2.02 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 5 | 2.02 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 6 | 2.0 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 6 | 2.0 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 6 | 2.0 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 14 | 1.99 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 14 | 1.99 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 14 | 1.99 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 12 | 1.98 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 12 | 1.98 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 12 | 1.98 |
| (2,634) | 1:740:B:ARG:HH21 | 1:743:B:ASP:OD2 | 4 | 1.97 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 4 | 1.97 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 4 | 1.97 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 4 | 1.97 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 4 | 1.97 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 4 | 1.97 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 4 | 1.97 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 12 | 1.97 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 12 | 1.97 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 12 | 1.97 |
| (2,638) | 1:780:B:ARG:HH22 | 1:783:B:GLU:OE1 | 4 | 1.96 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 3 | 1.96 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 3 | 1.96 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 3 | 1.96 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 3 | 1.96 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 3 | 1.96 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 3 | 1.96 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 5 | 1.94 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 5 | 1.94 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 5 | 1.94 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 5 | 1.94 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 5 | 1.94 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 5 | 1.94 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 4 | 1.94 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 4 | 1.94 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 4 | 1.94 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 3 | 1.93 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 3 | 1.93 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 3 | 1.93 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 5 | 1.93 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 5 | 1.93 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 5 | 1.93 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 13 | 1.92 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 13 | 1.92 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 13 | 1.92 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 13 | 1.92 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 13 | 1.92 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 9 | 1.91 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 9 | 1.91 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 9 | 1.91 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 12 | 1.9 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 12 | 1.9 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 12 | 1.9 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 12 | 1.9 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 12 | 1.9 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 12 | 1.9 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 6 | 1.9 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 6 | 1.9 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 6 | 1.9 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB2 | 5 | 1.89 |
| (2,71) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HB3 | 5 | 1.89 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB2 | 5 | 1.89 |
| (2,71) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HB3 | 5 | 1.89 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB2 | 5 | 1.89 |
| (2,71) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HB3 | 5 | 1.89 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 1 | 1.89 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 1 | 1.89 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 1 | 1.89 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 8 | 1.88 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 8 | 1.88 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 15 | 1.87 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 15 | 1.87 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 1 | 1.87 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 1 | 1.87 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 1 | 1.87 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 1 | 1.87 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 1 | 1.87 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 1 | 1.87 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 11 | 1.87 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 11 | 1.87 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 11 | 1.87 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 12 | 1.87 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 12 | 1.87 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 11 | 1.86 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 11 | 1.86 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 11 | 1.86 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 11 | 1.86 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 11 | 1.86 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 11 | 1.86 |
| (2,1484) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 13 | 1.85 |
| (2,1059) | 1:740:A:ARG:HH21 | 1:743:A:ASP:OD1 | 13 | 1.85 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 4 | 1.82 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 4 | 1.82 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 4 | 1.82 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 1 | 1.82 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 1 | 1.82 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD2 | 14 | 1.81 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 5 | 1.81 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 5 | 1.81 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 5 | 1.81 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 7 | 1.81 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 7 | 1.81 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 7 | 1.81 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 6 | 1.81 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 6 | 1.81 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 6 | 1.81 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 11 | 1.79 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 11 | 1.79 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 2 | 1.78 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 2 | 1.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 2 | 1.78 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 2 | 1.78 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 2 | 1.78 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 2 | 1.78 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD11 | 9 | 1.78 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD12 | 9 | 1.78 |
| (2,28) | 1:687:B:ILE:H | 1:686:A:ILE:HD13 | 9 | 1.78 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 13 | 1.78 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 13 | 1.78 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 13 | 1.78 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 11 | 1.77 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 11 | 1.77 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 11 | 1.77 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD1 | 14 | 1.74 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 1 | 1.74 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 1 | 1.74 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 1 | 1.74 |
| (2,1484) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD1 | 4 | 1.71 |
| (2,1059) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD1 | 4 | 1.71 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 9 | 1.71 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 9 | 1.71 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 9 | 1.71 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 9 | 1.71 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 9 | 1.71 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 9 | 1.71 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 10 | 1.71 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 10 | 1.71 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 10 | 1.71 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 10 | 1.71 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 10 | 1.71 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 10 | 1.71 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 12 | 1.71 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 12 | 1.71 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 2 | 1.69 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 2 | 1.69 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 2 | 1.69 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 9 | 1.67 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 9 | 1.67 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 15 | 1.65 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 15 | 1.65 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 15 | 1.65 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 2 | 1.64 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 2 | 1.64 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 2 | 1.64 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 7 | 1.6 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 7 | 1.6 |
| (2,1484) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD2 | 2 | 1.59 |
| (2,1484) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD1 | 6 | 1.59 |
| (2,1059) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD2 | 2 | 1.59 |
| (2,1059) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD1 | 6 | 1.59 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 5 | 1.58 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 5 | 1.58 |
| (2,638) | 1:780:B:ARG:HH21 | 1:783:B:GLU:OE2 | 10 | 1.58 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 11 | 1.57 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 11 | 1.57 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 11 | 1.57 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 14 | 1.57 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 14 | 1.57 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 14 | 1.57 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 6 | 1.55 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 6 | 1.55 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 6 | 1.55 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 6 | 1.55 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 6 | 1.55 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 6 | 1.55 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 2 | 1.54 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 2 | 1.54 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 2 | 1.54 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 2 | 1.54 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 2 | 1.54 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 2 | 1.54 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD1 | 5 | 1.52 |
| (2,1484) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD2 | 12 | 1.51 |
| (2,1059) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD2 | 12 | 1.51 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 8 | 1.51 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 8 | 1.51 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 14 | 1.5 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 14 | 1.5 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 5 | 1.5 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 5 | 1.5 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 5 | 1.5 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 14 | 1.49 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 14 | 1.49 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 14 | 1.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 5 | 1.48 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 5 | 1.48 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 5 | 1.48 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 5 | 1.48 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 5 | 1.48 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 5 | 1.48 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 5 | 1.48 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 5 | 1.48 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 9 | 1.48 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 9 | 1.48 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 9 | 1.48 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 12 | 1.47 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 12 | 1.47 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 12 | 1.47 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 2 | 1.46 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 2 | 1.46 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 15 | 1.46 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 15 | 1.46 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 15 | 1.46 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 15 | 1.46 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 15 | 1.46 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 15 | 1.46 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG11 | 7 | 1.44 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG12 | 7 | 1.44 |
| (2,34) | 1:690:B:GLY:H | 1:689:A:VAL:HG13 | 7 | 1.44 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 11 | 1.43 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 11 | 1.43 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 3 | 1.43 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 3 | 1.43 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 3 | 1.43 |
| (2,636) | 1:761:B:ARG:HH12 | 1:758:B:ASP:OD2 | 4 | 1.42 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 13 | 1.42 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 13 | 1.42 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 13 | 1.42 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 9 | 1.41 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 9 | 1.41 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 9 | 1.41 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD11 | 10 | 1.41 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD12 | 10 | 1.41 |
| (2,45) | 1:693:A:ILE:H | 1:693:B:ILE:HD13 | 10 | 1.41 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 6 | 1.4 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 6 | 1.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 6 | 1.4 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 1 | 1.39 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 1 | 1.39 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 1 | 1.39 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 9 | 1.38 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 9 | 1.38 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 9 | 1.38 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 9 | 1.38 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 9 | 1.38 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 9 | 1.38 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 1 | 1.37 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD1 | 1 | 1.37 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 3 | 1.37 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 3 | 1.37 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 3 | 1.37 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 3 | 1.37 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 3 | 1.37 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 3 | 1.37 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 8 | 1.37 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 8 | 1.37 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 8 | 1.37 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 8 | 1.37 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 8 | 1.37 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 8 | 1.37 |
| (2,1488) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE2 | 14 | 1.36 |
| (2,1063) | 1:780:A:ARG:HH11 | 1:783:A:GLU:OE2 | 14 | 1.36 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 4 | 1.32 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 4 | 1.32 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 4 | 1.32 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 5 | 1.31 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 5 | 1.31 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 5 | 1.31 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 7 | 1.31 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 7 | 1.31 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 7 | 1.31 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 12 | 1.29 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 12 | 1.29 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 12 | 1.29 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 12 | 1.29 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 12 | 1.29 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 12 | 1.29 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 3 | 1.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 3 | 1.27 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 11 | 1.27 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 11 | 1.27 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 11 | 1.27 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH21 | 6 | 1.27 |
| (2,47) | 1:693:A:ILE:HD11 | 1:696:A:ARG:HH22 | 6 | 1.27 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH21 | 6 | 1.27 |
| (2,47) | 1:693:A:ILE:HD12 | 1:696:A:ARG:HH22 | 6 | 1.27 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH21 | 6 | 1.27 |
| (2,47) | 1:693:A:ILE:HD13 | 1:696:A:ARG:HH22 | 6 | 1.27 |
| (2,1484) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD2 | 11 | 1.26 |
| (2,1059) | 1:740:A:ARG:HH11 | 1:743:A:ASP:OD2 | 11 | 1.26 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 4 | 1.26 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 4 | 1.26 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 1 | 1.25 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 1 | 1.25 |
| (2,41) | 1:693:A:ILE:H | 1:693:A:ILE:HG12 | 11 | 1.25 |
| (2,41) | 1:693:A:ILE:H | 1:693:A:ILE:HG13 | 11 | 1.25 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 10 | 1.25 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 10 | 1.25 |
| (2,1488) | 1:780:A:ARG:HH22 | 1:783:A:GLU:OE1 | 11 | 1.23 |
| (2,1063) | 1:780:A:ARG:HH22 | 1:783:A:GLU:OE1 | 11 | 1.23 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD2 | 12 | 1.23 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 15 | 1.22 |
| (2,1487) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD2 | 2 | 1.21 |
| (2,1062) | 1:770:A:ARG:HH11 | 1:773:A:ASP:OD2 | 2 | 1.21 |
| (2,38) | 1:692:A:LEU:HD21 | 1:694:A:GLY:H | 10 | 1.2 |
| (2,38) | 1:692:A:LEU:HD22 | 1:694:A:GLY:H | 10 | 1.2 |
| (2,38) | 1:692:A:LEU:HD23 | 1:694:A:GLY:H | 10 | 1.2 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 9 | 1.19 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 2 | 1.19 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 2 | 1.19 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 2 | 1.19 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 12 | 1.19 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 12 | 1.17 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 12 | 1.17 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB1 | 7 | 1.16 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB2 | 7 | 1.16 |
| (2,65) | 1:702:A:LEU:HD21 | 1:700:A:ALA:HB3 | 7 | 1.16 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB1 | 7 | 1.16 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB2 | 7 | 1.16 |
| (2,65) | 1:702:A:LEU:HD22 | 1:700:A:ALA:HB3 | 7 | 1.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB1 | 7 | 1.16 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB2 | 7 | 1.16 |
| (2,65) | 1:702:A:LEU:HD23 | 1:700:A:ALA:HB3 | 7 | 1.16 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 14 | 1.16 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB2 | 14 | 1.13 |
| (2,68) | 1:704:A:LEU:HD21 | 1:706:A:ASN:HB3 | 14 | 1.13 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB2 | 14 | 1.13 |
| (2,68) | 1:704:A:LEU:HD22 | 1:706:A:ASN:HB3 | 14 | 1.13 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB2 | 14 | 1.13 |
| (2,68) | 1:704:A:LEU:HD23 | 1:706:A:ASN:HB3 | 14 | 1.13 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 10 | 1.12 |
| (2,635) | 1:744:B:ARG:HH21 | 1:741:B:ASP:OD1 | 5 | 1.11 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 5 | 1.11 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA2 | 1 | 1.1 |
| (2,56) | 1:696:A:ARG:HE | 1:694:A:GLY:HA3 | 1 | 1.1 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 7 | 1.08 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 11 | 1.07 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 3 | 1.07 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 8 | 1.07 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 4 | 1.07 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 4 | 1.07 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 9 | 1.05 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 6 | 1.05 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 6 | 1.05 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 6 | 1.05 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 9 | 1.05 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 6 | 1.05 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 6 | 1.05 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 6 | 1.05 |
| (2,1485) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD2 | 10 | 1.04 |
| (2,1060) | 1:744:A:ARG:HH21 | 1:741:A:ASP:OD2 | 10 | 1.04 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 3 | 1.03 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 3 | 1.03 |
| (2,41) | 1:693:A:ILE:H | 1:693:A:ILE:HG12 | 10 | 1.03 |
| (2,41) | 1:693:A:ILE:H | 1:693:A:ILE:HG13 | 10 | 1.03 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 11 | 1.03 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 6 | 1.01 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 6 | 1.01 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 9 | 1.01 |
| (2,634) | 1:740:B:ARG:HH11 | 1:743:B:ASP:OD1 | 1 | 0.99 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 14 | 0.99 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 14 | 0.99 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 1 | 0.99 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH11 | 10 | 0.98 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH12 | 10 | 0.98 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH11 | 10 | 0.98 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH12 | 10 | 0.98 |
| (2,1203) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 9 | 0.97 |
| (2,1203) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 9 | 0.97 |
| (2,1203) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 9 | 0.97 |
| (2,1183) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH11 | 8 | 0.97 |
| (2,1183) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH12 | 8 | 0.97 |
| (2,778) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 9 | 0.97 |
| (2,778) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 9 | 0.97 |
| (2,778) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 9 | 0.97 |
| (2,758) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH11 | 8 | 0.97 |
| (2,758) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH12 | 8 | 0.97 |
| (2,638) | 1:780:B:ARG:HH21 | 1:783:B:GLU:OE2 | 14 | 0.97 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 7 | 0.97 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 7 | 0.97 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 7 | 0.97 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 7 | 0.97 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 7 | 0.97 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 7 | 0.97 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 13 | 0.96 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 13 | 0.96 |
| (2,1203) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 2 | 0.96 |
| (2,1203) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 2 | 0.96 |
| (2,1203) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 2 | 0.96 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 13 | 0.96 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 13 | 0.96 |
| (2,778) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 2 | 0.96 |
| (2,778) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 2 | 0.96 |
| (2,778) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 2 | 0.96 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 2 | 0.94 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 9 | 0.94 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 9 | 0.94 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 9 | 0.94 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 9 | 0.94 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 9 | 0.94 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 9 | 0.94 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 9 | 0.94 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 9 | 0.94 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 9 | 0.94 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1203) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 15 | 0.93 |
| (2,1203) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 15 | 0.93 |
| (2,1203) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 15 | 0.93 |
| (2,778) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 15 | 0.93 |
| (2,778) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 15 | 0.93 |
| (2,778) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 15 | 0.93 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 2 | 0.93 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 7 | 0.91 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 5 | 0.91 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 5 | 0.91 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 5 | 0.91 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 7 | 0.91 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 5 | 0.91 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 5 | 0.91 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 5 | 0.91 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 14 | 0.91 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 13 | 0.91 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 13 | 0.91 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 13 | 0.91 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 6 | 0.91 |
| (2,1487) | 1:770:A:ARG:HH22 | 1:773:A:ASP:OD1 | 6 | 0.9 |
| (2,1062) | 1:770:A:ARG:HH22 | 1:773:A:ASP:OD1 | 6 | 0.9 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 12 | 0.9 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 12 | 0.9 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 12 | 0.9 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 12 | 0.9 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 7 | 0.9 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 6 | 0.89 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 2 | 0.89 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 2 | 0.89 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 2 | 0.89 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 6 | 0.89 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 2 | 0.89 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 2 | 0.89 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 2 | 0.89 |
| (2,1203) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 3 | 0.88 |
| (2,1203) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 3 | 0.88 |
| (2,1203) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 3 | 0.88 |
| (2,778) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 3 | 0.88 |
| (2,778) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 3 | 0.88 |
| (2,778) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 3 | 0.88 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 3 | 0.88 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 3 | 0.88 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 3 | 0.88 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD2 | 13 | 0.88 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD3 | 13 | 0.88 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 15 | 0.88 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 3 | 0.87 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 3 | 0.87 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 3 | 0.87 |
| (2,1203) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 4 | 0.87 |
| (2,1203) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 4 | 0.87 |
| (2,1203) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 4 | 0.87 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 3 | 0.87 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 3 | 0.87 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 3 | 0.87 |
| (2,778) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 4 | 0.87 |
| (2,778) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 4 | 0.87 |
| (2,778) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 4 | 0.87 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 1 | 0.86 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 8 | 0.86 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 8 | 0.86 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 8 | 0.86 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 1 | 0.86 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 8 | 0.86 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 8 | 0.86 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 8 | 0.86 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 1 | 0.86 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 1 | 0.86 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 10 | 0.85 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 10 | 0.85 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 10 | 0.85 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 10 | 0.85 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 10 | 0.85 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 10 | 0.85 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 10 | 0.85 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 10 | 0.85 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 10 | 0.85 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 10 | 0.85 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 10 | 0.85 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 10 | 0.85 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 6 | 0.85 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 13 | 0.85 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 13 | 0.85 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 13 | 0.85 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 11 | 0.85 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 11 | 0.85 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 13 | 0.84 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 13 | 0.84 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 8 | 0.83 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 12 | 0.83 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 12 | 0.83 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 12 | 0.83 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 15 | 0.83 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 15 | 0.83 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 15 | 0.83 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 8 | 0.83 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 12 | 0.83 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 12 | 0.83 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 12 | 0.83 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 15 | 0.83 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 15 | 0.83 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 15 | 0.83 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 1 | 0.83 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 1 | 0.83 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 1 | 0.83 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 6 | 0.83 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 6 | 0.83 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 6 | 0.83 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 13 | 0.83 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 13 | 0.83 |
| (2,41) | 1:693:A:ILE:H | 1:693:A:ILE:HG12 | 8 | 0.83 |
| (2,41) | 1:693:A:ILE:H | 1:693:A:ILE:HG13 | 8 | 0.83 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 11 | 0.82 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 11 | 0.82 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 1 | 0.82 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 4 | 0.82 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 4 | 0.82 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 4 | 0.82 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 15 | 0.82 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 15 | 0.82 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 15 | 0.82 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 9 | 0.82 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 9 | 0.82 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB2 | 6 | 0.82 |
| (2,4) | 1:663:B:LEU:H | 1:661:A:LEU:HB3 | 6 | 0.82 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 14 | 0.81 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 4 | 0.81 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 4 | 0.81 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 4 | 0.81 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 14 | 0.81 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 4 | 0.81 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 4 | 0.81 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 4 | 0.81 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 11 | 0.81 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 8 | 0.81 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 8 | 0.81 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 2 | 0.81 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 7 | 0.81 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 7 | 0.81 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 7 | 0.8 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 7 | 0.8 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 7 | 0.8 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 7 | 0.8 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 7 | 0.8 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 7 | 0.8 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 2 | 0.8 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 2 | 0.8 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 2 | 0.8 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 5 | 0.79 |
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD2 | 8 | 0.79 |
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD3 | 8 | 0.79 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 11 | 0.79 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 11 | 0.79 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 11 | 0.79 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 9 | 0.78 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 9 | 0.78 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 9 | 0.78 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 11 | 0.78 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 11 | 0.78 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 11 | 0.78 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 4 | 0.78 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 4 | 0.78 |
| (2,1240) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 14 | 0.78 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 9 | 0.78 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 9 | 0.78 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 9 | 0.78 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 11 | 0.78 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 11 | 0.78 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 11 | 0.78 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 4 | 0.78 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 4 | 0.78 |
| (2,815) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 14 | 0.78 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 12 | 0.78 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 12 | 0.78 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 12 | 0.78 |
| (2,390) | 1:704:B:LEU:H | 1:704:B:LEU:HB3 | 3 | 0.78 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 5 | 0.78 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 5 | 0.78 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 5 | 0.78 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 15 | 0.78 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 15 | 0.78 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 3 | 0.78 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 3 | 0.78 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 3 | 0.78 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 3 | 0.78 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 3 | 0.78 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 3 | 0.78 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 3 | 0.78 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 3 | 0.78 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 3 | 0.78 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 14 | 0.77 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 14 | 0.77 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 14 | 0.77 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 11 | 0.77 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 14 | 0.77 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 14 | 0.77 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 14 | 0.77 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 11 | 0.77 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 3 | 0.77 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 5 | 0.77 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 5 | 0.77 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 5 | 0.77 |
| (2,402) | 1:705:B:VAL:HG11 | 1:706:B:ASN:HA | 12 | 0.77 |
| (2,402) | 1:705:B:VAL:HG12 | 1:706:B:ASN:HA | 12 | 0.77 |
| (2,402) | 1:705:B:VAL:HG13 | 1:706:B:ASN:HA | 12 | 0.77 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 11 | 0.77 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 4 | 0.77 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 4 | 0.77 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 4 | 0.77 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 3 | 0.77 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 3 | 0.77 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 13 | 0.76 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 13 | 0.76 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 3 | 0.76 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 10 | 0.76 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 10 | 0.76 |
| (2,1484) | 1:740:A:ARG:HH12 | 1:743:A:ASP:OD1 | 7 | 0.75 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 1 | 0.75 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 1 | 0.75 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 1 | 0.75 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 15 | 0.75 |
| (2,1059) | 1:740:A:ARG:HH12 | 1:743:A:ASP:OD1 | 7 | 0.75 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 1 | 0.75 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 1 | 0.75 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 1 | 0.75 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 15 | 0.75 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 9 | 0.75 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 9 | 0.75 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 9 | 0.75 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 2 | 0.75 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 2 | 0.75 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 7 | 0.75 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 7 | 0.75 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 7 | 0.75 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 15 | 0.75 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 15 | 0.75 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD11 | 10 | 0.75 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD12 | 10 | 0.75 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD13 | 10 | 0.75 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 5 | 0.75 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 5 | 0.75 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 5 | 0.75 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 5 | 0.75 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 5 | 0.75 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 5 | 0.75 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 5 | 0.75 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 5 | 0.75 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 5 | 0.75 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 12 | 0.75 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 12 | 0.75 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 12 | 0.75 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 12 | 0.75 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 12 | 0.75 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 12 | 0.75 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 12 | 0.75 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 12 | 0.75 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 12 | 0.75 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 6 | 0.74 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 6 | 0.74 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 10 | 0.74 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 10 | 0.74 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 10 | 0.74 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 6 | 0.74 |
| (2,1240) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 3 | 0.74 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 6 | 0.74 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 6 | 0.74 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 10 | 0.74 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 10 | 0.74 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 10 | 0.74 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 6 | 0.74 |
| (2,815) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 3 | 0.74 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 4 | 0.74 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 8 | 0.74 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 13 | 0.74 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 13 | 0.74 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 13 | 0.74 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 13 | 0.74 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 7 | 0.74 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 7 | 0.74 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 10 | 0.74 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 10 | 0.74 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 9 | 0.74 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 9 | 0.74 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 9 | 0.74 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 15 | 0.73 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 15 | 0.73 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 7 | 0.73 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 8 | 0.73 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 8 | 0.73 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 4 | 0.73 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 4 | 0.73 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 4 | 0.73 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 4 | 0.73 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 4 | 0.73 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 4 | 0.73 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 4 | 0.73 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 4 | 0.73 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 4 | 0.73 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 13 | 0.72 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 1 | 0.72 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 1 | 0.72 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 1 | 0.72 |
| (2,1208) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB2 | 13 | 0.72 |
| (2,1208) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB3 | 13 | 0.72 |
| (2,1208) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB2 | 13 | 0.72 |
| (2,1208) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB3 | 13 | 0.72 |
| (2,1208) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB2 | 13 | 0.72 |
| (2,1208) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB3 | 13 | 0.72 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 13 | 0.72 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 1 | 0.72 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 1 | 0.72 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 1 | 0.72 |
| (2,783) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB2 | 13 | 0.72 |
| (2,783) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB3 | 13 | 0.72 |
| (2,783) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB2 | 13 | 0.72 |
| (2,783) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB3 | 13 | 0.72 |
| (2,783) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB2 | 13 | 0.72 |
| (2,783) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB3 | 13 | 0.72 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 14 | 0.72 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 3 | 0.72 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 3 | 0.72 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 3 | 0.72 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 4 | 0.72 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 4 | 0.72 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 4 | 0.71 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 4 | 0.71 |
| (2,638) | 1:780:B:ARG:HH22 | 1:783:B:GLU:OE2 | 3 | 0.71 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 8 | 0.71 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 8 | 0.71 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 8 | 0.71 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 11 | 0.71 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 11 | 0.71 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 11 | 0.71 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 8 | 0.7 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 8 | 0.7 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|------------------------|------------------------|----------|---------------|
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 7 | 0.7 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 7 | 0.7 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 7 | 0.7 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 15 | 0.7 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 3 | 0.7 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 12 | 0.7 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 7 | 0.7 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 7 | 0.7 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD21 | 10 | 0.7 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD22 | 10 | 0.7 |
| (2,50) | 1:694:A:GLY:H | 1:692:A:LEU:HD23 | 10 | 0.7 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 11 | 0.69 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 11 | 0.69 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 11 | 0.69 |
| (2,220) | 1:663:B:LEU:H | 1:665:B:LYS:H | 11 | 0.69 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 11 | 0.69 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 11 | 0.69 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 11 | 0.69 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 11 | 0.69 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 11 | 0.69 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 11 | 0.69 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 11 | 0.69 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 11 | 0.69 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 11 | 0.69 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 14 | 0.69 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 14 | 0.69 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 14 | 0.69 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 14 | 0.69 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 14 | 0.69 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 14 | 0.69 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 14 | 0.69 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 14 | 0.69 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 14 | 0.69 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 2 | 0.68 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 5 | 0.68 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 6 | 0.68 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 2 | 0.68 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 5 | 0.68 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 6 | 0.68 |
| (2,637) | 1:770:B:ARG:HH21 | 1:773:B:ASP:OD1 | 1 | 0.68 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 3 | 0.67 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 4 | 0.67 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 9 | 0.67 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 12 | 0.67 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 3 | 0.67 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 4 | 0.67 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 9 | 0.67 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 12 | 0.67 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 14 | 0.67 |
| (2,513) | 1:759:B:ASP:H | 1:759:B:ASP:HB2 | 1 | 0.67 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 14 | 0.67 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 8 | 0.67 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 8 | 0.67 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 4 | 0.67 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 8 | 0.66 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 7 | 0.66 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 7 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB2 | 8 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB3 | 8 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB2 | 8 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB3 | 8 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB2 | 8 | 0.66 |
| (2,1208) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB3 | 8 | 0.66 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 8 | 0.66 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 7 | 0.66 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 7 | 0.66 |
| (2,783) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB2 | 8 | 0.66 |
| (2,783) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB3 | 8 | 0.66 |
| (2,783) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB2 | 8 | 0.66 |
| (2,783) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB3 | 8 | 0.66 |
| (2,783) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB2 | 8 | 0.66 |
| (2,783) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB3 | 8 | 0.66 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 13 | 0.66 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 7 | 0.66 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 10 | 0.66 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 10 | 0.66 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 10 | 0.66 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 9 | 0.66 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 10 | 0.66 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 10 | 0.66 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 10 | 0.66 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 6 | 0.65 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 10 | 0.65 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 11 | 0.65 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 6 | 0.65 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 10 | 0.65 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 11 | 0.65 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD11 | 9 | 0.65 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD12 | 9 | 0.65 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD13 | 9 | 0.65 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD21 | 9 | 0.65 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD22 | 9 | 0.65 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD23 | 9 | 0.65 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 12 | 0.65 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 10 | 0.65 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 9 | 0.65 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 9 | 0.65 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 9 | 0.65 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 9 | 0.65 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 11 | 0.65 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 11 | 0.65 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 13 | 0.65 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 2 | 0.65 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 2 | 0.65 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 15 | 0.64 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 15 | 0.64 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 13 | 0.64 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 14 | 0.64 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 13 | 0.64 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 13 | 0.64 |
| (2,1462) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 13 | 0.64 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 1 | 0.64 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 15 | 0.64 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 15 | 0.64 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 13 | 0.64 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 14 | 0.64 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB1 | 13 | 0.64 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB2 | 13 | 0.64 |
| (2,1037) | 1:790:A:TRP:HE1 | 1:792:A:ALA:HB3 | 13 | 0.64 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 1 | 0.64 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 3 | 0.64 |
| (2,445) | 1:710:B:GLN:H | 1:710:B:GLN:HB2 | 15 | 0.64 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 1 | 0.64 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 1 | 0.64 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 1 | 0.64 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 6 | 0.63 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 13 | 0.63 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 15 | 0.63 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 15 | 0.63 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 15 | 0.63 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 15 | 0.63 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 15 | 0.63 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 15 | 0.63 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 12 | 0.63 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 12 | 0.63 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 12 | 0.63 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 6 | 0.63 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 13 | 0.63 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 15 | 0.63 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 15 | 0.63 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 15 | 0.63 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 15 | 0.63 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 15 | 0.63 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 15 | 0.63 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 12 | 0.63 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 12 | 0.63 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 12 | 0.63 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 2 | 0.63 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 10 | 0.63 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 9 | 0.63 |
| (2,445) | 1:710:B:GLN:H | 1:710:B:GLN:HB2 | 10 | 0.63 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 5 | 0.63 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 5 | 0.63 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 9 | 0.63 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 9 | 0.63 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 5 | 0.62 |
| (2,1240) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 12 | 0.62 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 5 | 0.62 |
| (2,815) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 12 | 0.62 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 12 | 0.62 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 15 | 0.62 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 7 | 0.62 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 12 | 0.62 |
| (2,169) | 1:797:B:TRP:HE1 | 1:848:B:ARG:HB2 | 3 | 0.62 |
| (2,169) | 1:797:B:TRP:HE1 | 1:848:B:ARG:HB3 | 3 | 0.62 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD21 | 9 | 0.62 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD22 | 9 | 0.62 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD23 | 9 | 0.62 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 2 | 0.62 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 2 | 0.62 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 2 | 0.62 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 2 | 0.62 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 2 | 0.62 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 2 | 0.62 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 2 | 0.62 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 2 | 0.62 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 2 | 0.62 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 4 | 0.61 |
| (2,1295) | 1:710:A:GLN:H | 1:710:A:GLN:HB2 | 13 | 0.61 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 4 | 0.61 |
| (2,870) | 1:710:A:GLN:H | 1:710:A:GLN:HB2 | 13 | 0.61 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH21 | 15 | 0.61 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH22 | 15 | 0.61 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH21 | 15 | 0.61 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH22 | 15 | 0.61 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH21 | 15 | 0.61 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH22 | 15 | 0.61 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 2 | 0.61 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 2 | 0.61 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 2 | 0.61 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 2 | 0.61 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 2 | 0.61 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 2 | 0.61 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 12 | 0.61 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 12 | 0.61 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 12 | 0.61 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 3 | 0.61 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 3 | 0.61 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 9 | 0.61 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 9 | 0.61 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 11 | 0.6 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 11 | 0.6 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 15 | 0.6 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 8 | 0.6 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 7 | 0.6 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 7 | 0.6 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 7 | 0.6 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 7 | 0.6 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 7 | 0.6 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 7 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 12 | 0.6 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 1 | 0.6 |
| (2,1183) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH21 | 15 | 0.6 |
| (2,1183) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH22 | 15 | 0.6 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 2 | 0.6 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 2 | 0.6 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 2 | 0.6 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 2 | 0.6 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 2 | 0.6 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 2 | 0.6 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 11 | 0.6 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 11 | 0.6 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 15 | 0.6 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 8 | 0.6 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 7 | 0.6 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 7 | 0.6 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 7 | 0.6 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 7 | 0.6 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 7 | 0.6 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 7 | 0.6 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 12 | 0.6 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 1 | 0.6 |
| (2,758) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH21 | 15 | 0.6 |
| (2,758) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH22 | 15 | 0.6 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 2 | 0.6 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 2 | 0.6 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 2 | 0.6 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 2 | 0.6 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 2 | 0.6 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 2 | 0.6 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 1 | 0.6 |
| (2,444) | 1:710:B:GLN:H | 1:710:B:GLN:HB3 | 11 | 0.6 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 10 | 0.6 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 10 | 0.6 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 10 | 0.6 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 11 | 0.6 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 11 | 0.6 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 11 | 0.6 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 11 | 0.6 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 11 | 0.6 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD21 | 6 | 0.6 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD22 | 6 | 0.6 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD23 | 6 | 0.6 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 5 | 0.6 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 5 | 0.6 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB1 | 4 | 0.6 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB2 | 4 | 0.6 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB3 | 4 | 0.6 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB1 | 4 | 0.6 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB2 | 4 | 0.6 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB3 | 4 | 0.6 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB1 | 4 | 0.6 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB2 | 4 | 0.6 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB3 | 4 | 0.6 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 14 | 0.6 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 14 | 0.6 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 14 | 0.6 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD11 | 11 | 0.59 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD12 | 11 | 0.59 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD13 | 11 | 0.59 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 10 | 0.59 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 7 | 0.59 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 12 | 0.59 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 12 | 0.59 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 12 | 0.59 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 12 | 0.59 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 12 | 0.59 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 12 | 0.59 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 1 | 0.59 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 1 | 0.59 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 1 | 0.59 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 1 | 0.59 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 1 | 0.59 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 1 | 0.59 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD11 | 11 | 0.59 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD12 | 11 | 0.59 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD13 | 11 | 0.59 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 10 | 0.59 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 7 | 0.59 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 12 | 0.59 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 12 | 0.59 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 12 | 0.59 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 12 | 0.59 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 12 | 0.59 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 12 | 0.59 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 1 | 0.59 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 1 | 0.59 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 1 | 0.59 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 1 | 0.59 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 1 | 0.59 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 1 | 0.59 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 14 | 0.59 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 9 | 0.59 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 5 | 0.59 |
| (2,444) | 1:710:B:GLN:H | 1:710:B:GLN:HB3 | 5 | 0.59 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 11 | 0.59 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 8 | 0.59 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 8 | 0.59 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 8 | 0.59 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 8 | 0.59 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 8 | 0.59 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 3 | 0.59 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 3 | 0.59 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 3 | 0.59 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 3 | 0.59 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 2 | 0.59 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 2 | 0.59 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 6 | 0.59 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 6 | 0.59 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 13 | 0.59 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 13 | 0.59 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 13 | 0.59 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 13 | 0.59 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 13 | 0.59 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 13 | 0.59 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 13 | 0.59 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 13 | 0.59 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 13 | 0.59 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 6 | 0.58 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 8 | 0.58 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 8 | 0.58 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 8 | 0.58 |
| (2,1240) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 8 | 0.58 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 6 | 0.58 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 8 | 0.58 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 8 | 0.58 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 8 | 0.58 |
| (2,815) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 8 | 0.58 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 10 | 0.58 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 15 | 0.58 |
| (2,492) | 1:753:B:LEU:HD21 | 1:750:B:ASN:HB2 | 15 | 0.58 |
| (2,492) | 1:753:B:LEU:HD21 | 1:750:B:ASN:HB3 | 15 | 0.58 |
| (2,492) | 1:753:B:LEU:HD22 | 1:750:B:ASN:HB2 | 15 | 0.58 |
| (2,492) | 1:753:B:LEU:HD22 | 1:750:B:ASN:HB3 | 15 | 0.58 |
| (2,492) | 1:753:B:LEU:HD23 | 1:750:B:ASN:HB2 | 15 | 0.58 |
| (2,492) | 1:753:B:LEU:HD23 | 1:750:B:ASN:HB3 | 15 | 0.58 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 6 | 0.58 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 12 | 0.58 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG12 | 10 | 0.58 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG13 | 10 | 0.58 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 11 | 0.58 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 11 | 0.58 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 5 | 0.58 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 2 | 0.58 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 2 | 0.58 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 2 | 0.58 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 2 | 0.58 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 2 | 0.58 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 2 | 0.58 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 1 | 0.58 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 1 | 0.58 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 1 | 0.58 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 1 | 0.58 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 1 | 0.58 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 1 | 0.58 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 1 | 0.58 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 1 | 0.58 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 1 | 0.58 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 12 | 0.57 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 12 | 0.57 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 5 | 0.57 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 8 | 0.57 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 8 | 0.57 |
| (2,1294) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 2 | 0.57 |
| (2,1189) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 13 | 0.57 |
| (2,1189) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 13 | 0.57 |
| (2,1189) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 13 | 0.57 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 12 | 0.57 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 12 | 0.57 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 5 | 0.57 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 8 | 0.57 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 8 | 0.57 |
| (2,869) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 2 | 0.57 |
| (2,764) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 13 | 0.57 |
| (2,764) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 13 | 0.57 |
| (2,764) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 13 | 0.57 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 11 | 0.57 |
| (2,405) | 1:705:B:VAL:HG21 | 1:702:B:LEU:HG | 12 | 0.57 |
| (2,405) | 1:705:B:VAL:HG22 | 1:702:B:LEU:HG | 12 | 0.57 |
| (2,405) | 1:705:B:VAL:HG23 | 1:702:B:LEU:HG | 12 | 0.57 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 3 | 0.57 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 3 | 0.57 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 14 | 0.57 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 12 | 0.57 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 12 | 0.57 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB2 | 13 | 0.57 |
| (2,87) | 1:711:B:GLY:H | 1:758:A:ASP:HB3 | 13 | 0.57 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 12 | 0.57 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 12 | 0.57 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 1 | 0.56 |
| (2,1208) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB2 | 6 | 0.56 |
| (2,1208) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB3 | 6 | 0.56 |
| (2,1208) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB2 | 6 | 0.56 |
| (2,1208) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB3 | 6 | 0.56 |
| (2,1208) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB2 | 6 | 0.56 |
| (2,1208) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB3 | 6 | 0.56 |
| (2,1189) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 14 | 0.56 |
| (2,1189) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 14 | 0.56 |
| (2,1189) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 14 | 0.56 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 1 | 0.56 |
| (2,783) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB2 | 6 | 0.56 |
| (2,783) | 1:698:A:VAL:HG11 | 1:702:A:LEU:HB3 | 6 | 0.56 |
| (2,783) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB2 | 6 | 0.56 |
| (2,783) | 1:698:A:VAL:HG12 | 1:702:A:LEU:HB3 | 6 | 0.56 |
| (2,783) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB2 | 6 | 0.56 |
| (2,783) | 1:698:A:VAL:HG13 | 1:702:A:LEU:HB3 | 6 | 0.56 |
| (2,764) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 14 | 0.56 |
| (2,764) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 14 | 0.56 |
| (2,764) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 14 | 0.56 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 10 | 0.56 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 8 | 0.56 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 3 | 0.56 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 3 | 0.56 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 3 | 0.56 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 3 | 0.56 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 3 | 0.56 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 3 | 0.56 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 13 | 0.56 |
| (2,444) | 1:710:B:GLN:H | 1:710:B:GLN:HB3 | 8 | 0.56 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 1 | 0.56 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD2 | 5 | 0.56 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD3 | 5 | 0.56 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 5 | 0.56 |
| (2,114) | 1:781:A:ILE:HD11 | 1:743:B:ASP:HA | 7 | 0.56 |
| (2,114) | 1:781:A:ILE:HD12 | 1:743:B:ASP:HA | 7 | 0.56 |
| (2,114) | 1:781:A:ILE:HD13 | 1:743:B:ASP:HA | 7 | 0.56 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 15 | 0.56 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 15 | 0.56 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 15 | 0.56 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 5 | 0.56 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 5 | 0.56 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 8 | 0.56 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 8 | 0.56 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 8 | 0.56 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 8 | 0.56 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 8 | 0.56 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 8 | 0.56 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB1 | 3 | 0.56 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB2 | 3 | 0.56 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB3 | 3 | 0.56 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB1 | 3 | 0.56 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB2 | 3 | 0.56 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB3 | 3 | 0.56 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB1 | 3 | 0.56 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB2 | 3 | 0.56 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB3 | 3 | 0.56 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 13 | 0.55 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 13 | 0.55 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 13 | 0.55 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 13 | 0.55 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 13 | 0.55 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 13 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 12 | 0.55 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 7 | 0.55 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 9 | 0.55 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 9 | 0.55 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 9 | 0.55 |
| (2,1240) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 5 | 0.55 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 13 | 0.55 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 13 | 0.55 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 13 | 0.55 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 13 | 0.55 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 13 | 0.55 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 13 | 0.55 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 12 | 0.55 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 7 | 0.55 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 9 | 0.55 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 9 | 0.55 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 9 | 0.55 |
| (2,815) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 5 | 0.55 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 8 | 0.55 |
| (2,491) | 1:753:B:LEU:HD11 | 1:757:B:TRP:HB2 | 11 | 0.55 |
| (2,491) | 1:753:B:LEU:HD11 | 1:757:B:TRP:HB3 | 11 | 0.55 |
| (2,491) | 1:753:B:LEU:HD12 | 1:757:B:TRP:HB2 | 11 | 0.55 |
| (2,491) | 1:753:B:LEU:HD12 | 1:757:B:TRP:HB3 | 11 | 0.55 |
| (2,491) | 1:753:B:LEU:HD13 | 1:757:B:TRP:HB2 | 11 | 0.55 |
| (2,491) | 1:753:B:LEU:HD13 | 1:757:B:TRP:HB3 | 11 | 0.55 |
| (2,470) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HA | 7 | 0.55 |
| (2,470) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HA | 7 | 0.55 |
| (2,470) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HA | 7 | 0.55 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 14 | 0.55 |
| (2,444) | 1:710:B:GLN:H | 1:710:B:GLN:HB3 | 1 | 0.55 |
| (2,444) | 1:710:B:GLN:H | 1:710:B:GLN:HB3 | 7 | 0.55 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 2 | 0.55 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG12 | 6 | 0.55 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG13 | 6 | 0.55 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 13 | 0.55 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 13 | 0.55 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 12 | 0.55 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 12 | 0.55 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 12 | 0.55 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 12 | 0.55 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 7 | 0.55 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 7 | 0.55 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE1 | 5 | 0.55 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE2 | 5 | 0.55 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE1 | 5 | 0.55 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE2 | 5 | 0.55 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE1 | 5 | 0.55 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE2 | 5 | 0.55 |
| (2,1485) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD1 | 13 | 0.54 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 2 | 0.54 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 4 | 0.54 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 14 | 0.54 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 5 | 0.54 |
| (2,1294) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 10 | 0.54 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 2 | 0.54 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 2 | 0.54 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 2 | 0.54 |
| (2,1203) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 6 | 0.54 |
| (2,1203) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 6 | 0.54 |
| (2,1203) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 6 | 0.54 |
| (2,1183) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH11 | 3 | 0.54 |
| (2,1183) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH12 | 3 | 0.54 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 6 | 0.54 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 6 | 0.54 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 6 | 0.54 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 6 | 0.54 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 6 | 0.54 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 6 | 0.54 |
| (2,1060) | 1:744:A:ARG:HH11 | 1:741:A:ASP:OD1 | 13 | 0.54 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 2 | 0.54 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 4 | 0.54 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 14 | 0.54 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 5 | 0.54 |
| (2,869) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 10 | 0.54 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 2 | 0.54 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 2 | 0.54 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 2 | 0.54 |
| (2,778) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 6 | 0.54 |
| (2,778) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 6 | 0.54 |
| (2,778) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 6 | 0.54 |
| (2,758) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH11 | 3 | 0.54 |
| (2,758) | 1:692:A:LEU:HD11 | 1:696:A:ARG:HH12 | 3 | 0.54 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 6 | 0.54 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 6 | 0.54 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 6 | 0.54 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 6 | 0.54 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 6 | 0.54 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 6 | 0.54 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 2 | 0.54 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 4 | 0.54 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 4 | 0.54 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 4 | 0.54 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 4 | 0.54 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 4 | 0.54 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 4 | 0.54 |
| (2,444) | 1:710:B:GLN:H | 1:710:B:GLN:HB3 | 13 | 0.54 |
| (2,403) | 1:705:B:VAL:HG11 | 1:709:B:ARG:HD2 | 12 | 0.54 |
| (2,403) | 1:705:B:VAL:HG11 | 1:709:B:ARG:HD3 | 12 | 0.54 |
| (2,403) | 1:705:B:VAL:HG12 | 1:709:B:ARG:HD2 | 12 | 0.54 |
| (2,403) | 1:705:B:VAL:HG12 | 1:709:B:ARG:HD3 | 12 | 0.54 |
| (2,403) | 1:705:B:VAL:HG13 | 1:709:B:ARG:HD2 | 12 | 0.54 |
| (2,403) | 1:705:B:VAL:HG13 | 1:709:B:ARG:HD3 | 12 | 0.54 |
| (2,114) | 1:781:A:ILE:HD11 | 1:743:B:ASP:HA | 3 | 0.54 |
| (2,114) | 1:781:A:ILE:HD12 | 1:743:B:ASP:HA | 3 | 0.54 |
| (2,114) | 1:781:A:ILE:HD13 | 1:743:B:ASP:HA | 3 | 0.54 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 4 | 0.54 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 4 | 0.54 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 4 | 0.54 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 4 | 0.54 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 4 | 0.54 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 4 | 0.54 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB2 | 10 | 0.54 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB3 | 10 | 0.54 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 5 | 0.53 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 5 | 0.53 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 7 | 0.53 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 7 | 0.53 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 7 | 0.53 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 7 | 0.53 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 7 | 0.53 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 7 | 0.53 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 10 | 0.53 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 10 | 0.53 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 10 | 0.53 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 10 | 0.53 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 10 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 10 | 0.53 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 14 | 0.53 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 13 | 0.53 |
| (2,1288) | 1:709:A:ARG:HE | 1:709:A:ARG:H | 6 | 0.53 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 7 | 0.53 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 7 | 0.53 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 7 | 0.53 |
| (2,1240) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 2 | 0.53 |
| (2,1189) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 5 | 0.53 |
| (2,1189) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 5 | 0.53 |
| (2,1189) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 5 | 0.53 |
| (2,1189) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 12 | 0.53 |
| (2,1189) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 12 | 0.53 |
| (2,1189) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 12 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 12 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 12 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 12 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 12 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 12 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 12 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 14 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 14 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 14 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 14 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 14 | 0.53 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 14 | 0.53 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 5 | 0.53 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 5 | 0.53 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 7 | 0.53 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 7 | 0.53 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 7 | 0.53 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 7 | 0.53 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 7 | 0.53 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 7 | 0.53 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 10 | 0.53 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 10 | 0.53 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 10 | 0.53 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 10 | 0.53 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 10 | 0.53 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 10 | 0.53 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 14 | 0.53 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 13 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,863) | 1:709:A:ARG:HE | 1:709:A:ARG:H | 6 | 0.53 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 7 | 0.53 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 7 | 0.53 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 7 | 0.53 |
| (2,815) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 2 | 0.53 |
| (2,764) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 5 | 0.53 |
| (2,764) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 5 | 0.53 |
| (2,764) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 5 | 0.53 |
| (2,764) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 12 | 0.53 |
| (2,764) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 12 | 0.53 |
| (2,764) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 12 | 0.53 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 12 | 0.53 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 12 | 0.53 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 12 | 0.53 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 12 | 0.53 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 12 | 0.53 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 12 | 0.53 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 14 | 0.53 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 14 | 0.53 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 14 | 0.53 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 14 | 0.53 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 14 | 0.53 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 14 | 0.53 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD2 | 15 | 0.53 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD3 | 15 | 0.53 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 5 | 0.53 |
| (2,444) | 1:710:B:GLN:H | 1:710:B:GLN:HB3 | 6 | 0.53 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 5 | 0.53 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD2 | 13 | 0.53 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD3 | 13 | 0.53 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD2 | 13 | 0.53 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD3 | 13 | 0.53 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD2 | 13 | 0.53 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD3 | 13 | 0.53 |
| (2,339) | 1:693:B:ILE:HG21 | 1:694:B:GLY:H | 6 | 0.53 |
| (2,339) | 1:693:B:ILE:HG22 | 1:694:B:GLY:H | 6 | 0.53 |
| (2,339) | 1:693:B:ILE:HG23 | 1:694:B:GLY:H | 6 | 0.53 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD11 | 8 | 0.53 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD12 | 8 | 0.53 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD13 | 8 | 0.53 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD21 | 8 | 0.53 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD22 | 8 | 0.53 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD23 | 8 | 0.53 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 2 | 0.53 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 7 | 0.53 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 7 | 0.53 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 14 | 0.53 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 14 | 0.53 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 9 | 0.53 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 9 | 0.53 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 9 | 0.53 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 14 | 0.52 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 14 | 0.52 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 3 | 0.52 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 14 | 0.52 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 14 | 0.52 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 14 | 0.52 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 8 | 0.52 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 8 | 0.52 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 8 | 0.52 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 8 | 0.52 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 8 | 0.52 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 8 | 0.52 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 15 | 0.52 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 15 | 0.52 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 15 | 0.52 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 15 | 0.52 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 15 | 0.52 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 15 | 0.52 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 14 | 0.52 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 14 | 0.52 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 3 | 0.52 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 14 | 0.52 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 14 | 0.52 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 14 | 0.52 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 8 | 0.52 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 8 | 0.52 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 8 | 0.52 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 8 | 0.52 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 8 | 0.52 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 8 | 0.52 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 15 | 0.52 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 15 | 0.52 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 15 | 0.52 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 15 | 0.52 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 15 | 0.52 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 15 | 0.52 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 4 | 0.52 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 6 | 0.52 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 1 | 0.52 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 14 | 0.52 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 12 | 0.52 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD2 | 7 | 0.52 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD3 | 7 | 0.52 |
| (2,339) | 1:693:B:ILE:HG21 | 1:694:B:GLY:H | 10 | 0.52 |
| (2,339) | 1:693:B:ILE:HG22 | 1:694:B:GLY:H | 10 | 0.52 |
| (2,339) | 1:693:B:ILE:HG23 | 1:694:B:GLY:H | 10 | 0.52 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG12 | 8 | 0.52 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG13 | 8 | 0.52 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG12 | 13 | 0.52 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG13 | 13 | 0.52 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 11 | 0.52 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 11 | 0.52 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD2 | 15 | 0.52 |
| (2,138) | 1:756:B:ILE:H | 1:794:A:LYS:HD3 | 15 | 0.52 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 6 | 0.52 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 8 | 0.52 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 15 | 0.52 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 15 | 0.52 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 15 | 0.52 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 15 | 0.52 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 15 | 0.52 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 15 | 0.52 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE1 | 5 | 0.52 |
| (2,74) | 1:708:A:VAL:HG21 | 1:712:A:TYR:HE2 | 5 | 0.52 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE1 | 5 | 0.52 |
| (2,74) | 1:708:A:VAL:HG22 | 1:712:A:TYR:HE2 | 5 | 0.52 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE1 | 5 | 0.52 |
| (2,74) | 1:708:A:VAL:HG23 | 1:712:A:TYR:HE2 | 5 | 0.52 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 1 | 0.51 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 3 | 0.51 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 10 | 0.51 |
| (2,1443) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 7 | 0.51 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 12 | 0.51 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 8 | 0.51 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 4 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1203) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 12 | 0.51 |
| (2,1203) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 12 | 0.51 |
| (2,1203) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 12 | 0.51 |
| (2,1189) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 9 | 0.51 |
| (2,1189) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 9 | 0.51 |
| (2,1189) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 9 | 0.51 |
| (2,1072) | 1:663:A:LEU:HD21 | 1:667:A:ALA:HB1 | 12 | 0.51 |
| (2,1072) | 1:663:A:LEU:HD21 | 1:667:A:ALA:HB2 | 12 | 0.51 |
| (2,1072) | 1:663:A:LEU:HD21 | 1:667:A:ALA:HB3 | 12 | 0.51 |
| (2,1072) | 1:663:A:LEU:HD22 | 1:667:A:ALA:HB1 | 12 | 0.51 |
| (2,1072) | 1:663:A:LEU:HD22 | 1:667:A:ALA:HB2 | 12 | 0.51 |
| (2,1072) | 1:663:A:LEU:HD22 | 1:667:A:ALA:HB3 | 12 | 0.51 |
| (2,1072) | 1:663:A:LEU:HD23 | 1:667:A:ALA:HB1 | 12 | 0.51 |
| (2,1072) | 1:663:A:LEU:HD23 | 1:667:A:ALA:HB2 | 12 | 0.51 |
| (2,1072) | 1:663:A:LEU:HD23 | 1:667:A:ALA:HB3 | 12 | 0.51 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 1 | 0.51 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 3 | 0.51 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 10 | 0.51 |
| (2,1018) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 7 | 0.51 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 12 | 0.51 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 8 | 0.51 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 4 | 0.51 |
| (2,778) | 1:697:A:ILE:HG21 | 1:698:A:VAL:HA | 12 | 0.51 |
| (2,778) | 1:697:A:ILE:HG22 | 1:698:A:VAL:HA | 12 | 0.51 |
| (2,778) | 1:697:A:ILE:HG23 | 1:698:A:VAL:HA | 12 | 0.51 |
| (2,764) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 9 | 0.51 |
| (2,764) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 9 | 0.51 |
| (2,764) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 9 | 0.51 |
| (2,647) | 1:663:A:LEU:HD21 | 1:667:A:ALA:HB1 | 12 | 0.51 |
| (2,647) | 1:663:A:LEU:HD21 | 1:667:A:ALA:HB2 | 12 | 0.51 |
| (2,647) | 1:663:A:LEU:HD21 | 1:667:A:ALA:HB3 | 12 | 0.51 |
| (2,647) | 1:663:A:LEU:HD22 | 1:667:A:ALA:HB1 | 12 | 0.51 |
| (2,647) | 1:663:A:LEU:HD22 | 1:667:A:ALA:HB2 | 12 | 0.51 |
| (2,647) | 1:663:A:LEU:HD22 | 1:667:A:ALA:HB3 | 12 | 0.51 |
| (2,647) | 1:663:A:LEU:HD23 | 1:667:A:ALA:HB1 | 12 | 0.51 |
| (2,647) | 1:663:A:LEU:HD23 | 1:667:A:ALA:HB2 | 12 | 0.51 |
| (2,647) | 1:663:A:LEU:HD23 | 1:667:A:ALA:HB3 | 12 | 0.51 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 4 | 0.51 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 4 | 0.51 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 5 | 0.51 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 14 | 0.51 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB2 | 3 | 0.51 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB3 | 3 | 0.51 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB2 | 3 | 0.51 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB3 | 3 | 0.51 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB2 | 3 | 0.51 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB3 | 3 | 0.51 |
| (2,228) | 1:665:B:LYS:H | 1:662:B:GLU:HA | 11 | 0.51 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 11 | 0.51 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 11 | 0.51 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 11 | 0.51 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 6 | 0.51 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 6 | 0.51 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 5 | 0.51 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 5 | 0.51 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 5 | 0.51 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 5 | 0.51 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 5 | 0.51 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 5 | 0.51 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 9 | 0.51 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 9 | 0.51 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 9 | 0.51 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 9 | 0.51 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 9 | 0.51 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 9 | 0.51 |
| (2,12) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HZ2 | 1 | 0.51 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 15 | 0.5 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 2 | 0.5 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 2 | 0.5 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 2 | 0.5 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 2 | 0.5 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 2 | 0.5 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 2 | 0.5 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 10 | 0.5 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 10 | 0.5 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 15 | 0.5 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 2 | 0.5 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 2 | 0.5 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 2 | 0.5 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 2 | 0.5 |
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 2 | 0.5 |
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 2 | 0.5 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 10 | 0.5 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 10 | 0.5 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 2 | 0.5 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 2 | 0.5 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 15 | 0.5 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 3 | 0.5 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 11 | 0.5 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 13 | 0.5 |
| (2,525) | 1:771:B:LEU:HD11 | 1:764:B:SER:HA | 2 | 0.5 |
| (2,525) | 1:771:B:LEU:HD12 | 1:764:B:SER:HA | 2 | 0.5 |
| (2,525) | 1:771:B:LEU:HD13 | 1:764:B:SER:HA | 2 | 0.5 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 13 | 0.5 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 13 | 0.5 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 10 | 0.5 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 2 | 0.5 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 2 | 0.5 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 2 | 0.5 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 3 | 0.5 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 3 | 0.5 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 3 | 0.5 |
| (2,333) | 1:692:B:LEU:HD12 | 1:696:B:ARG:HH11 | 11 | 0.5 |
| (2,333) | 1:692:B:LEU:HD12 | 1:696:B:ARG:HH12 | 11 | 0.5 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 13 | 0.5 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 12 | 0.5 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 12 | 0.5 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 2 | 0.49 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 13 | 0.49 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 13 | 0.49 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 13 | 0.49 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 13 | 0.49 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 13 | 0.49 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 13 | 0.49 |
| (2,1123) | 1:675:A:ILE:H | 1:674:A:ASP:H | 11 | 0.49 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 2 | 0.49 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 13 | 0.49 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 13 | 0.49 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 13 | 0.49 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 13 | 0.49 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 13 | 0.49 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 13 | 0.49 |
| (2,698) | 1:675:A:ILE:H | 1:674:A:ASP:H | 11 | 0.49 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 8 | 0.49 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 4 | 0.49 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 9 | 0.49 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 15 | 0.49 |
| (2,333) | 1:692:B:LEU:HD11 | 1:696:B:ARG:HH11 | 8 | 0.49 |
| (2,333) | 1:692:B:LEU:HD11 | 1:696:B:ARG:HH12 | 8 | 0.49 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 11 | 0.49 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 11 | 0.49 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 11 | 0.49 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 11 | 0.49 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 12 | 0.49 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 6 | 0.49 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 6 | 0.49 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 6 | 0.49 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 6 | 0.49 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 8 | 0.49 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 8 | 0.49 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 13 | 0.49 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 13 | 0.49 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 1 | 0.49 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 1 | 0.49 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 1 | 0.49 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 14 | 0.49 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 14 | 0.49 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 14 | 0.49 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 5 | 0.48 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 8 | 0.48 |
| (2,1307) | 1:740:A:ARG:H | 1:739:A:GLU:HA | 8 | 0.48 |
| (2,1240) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 6 | 0.48 |
| (2,1189) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 6 | 0.48 |
| (2,1189) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 6 | 0.48 |
| (2,1189) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 6 | 0.48 |
| (2,1189) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 7 | 0.48 |
| (2,1189) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 7 | 0.48 |
| (2,1189) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 7 | 0.48 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 5 | 0.48 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 8 | 0.48 |
| (2,882) | 1:740:A:ARG:H | 1:739:A:GLU:HA | 8 | 0.48 |
| (2,815) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 6 | 0.48 |
| (2,764) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 6 | 0.48 |
| (2,764) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 6 | 0.48 |
| (2,764) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 6 | 0.48 |
| (2,764) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 7 | 0.48 |
| (2,764) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 7 | 0.48 |
| (2,764) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 7 | 0.48 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 13 | 0.48 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 10 | 0.48 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 1 | 0.48 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 2 | 0.48 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 6 | 0.48 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 8 | 0.48 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 12 | 0.48 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB2 | 14 | 0.48 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB3 | 14 | 0.48 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB2 | 14 | 0.48 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB3 | 14 | 0.48 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB2 | 14 | 0.48 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB3 | 14 | 0.48 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 8 | 0.48 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 8 | 0.48 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 8 | 0.48 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 10 | 0.48 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 3 | 0.47 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 4 | 0.47 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 13 | 0.47 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 13 | 0.47 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 13 | 0.47 |
| (2,1189) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 2 | 0.47 |
| (2,1189) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 2 | 0.47 |
| (2,1189) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 2 | 0.47 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 9 | 0.47 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 9 | 0.47 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 9 | 0.47 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 3 | 0.47 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 4 | 0.47 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 13 | 0.47 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 13 | 0.47 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 13 | 0.47 |
| (2,764) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 2 | 0.47 |
| (2,764) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 2 | 0.47 |
| (2,764) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 2 | 0.47 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 9 | 0.47 |
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 9 | 0.47 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 9 | 0.47 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 13 | 0.47 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 4 | 0.47 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 6 | 0.47 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 3 | 0.47 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 11 | 0.47 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 13 | 0.47 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 11 | 0.47 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 11 | 0.47 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 11 | 0.47 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 11 | 0.47 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 11 | 0.47 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 11 | 0.47 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB2 | 7 | 0.47 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB3 | 7 | 0.47 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB2 | 7 | 0.47 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB3 | 7 | 0.47 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB2 | 7 | 0.47 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB3 | 7 | 0.47 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 1 | 0.47 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 1 | 0.47 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 7 | 0.47 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 12 | 0.47 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 12 | 0.47 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 12 | 0.47 |
| (2,15) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HD1 | 13 | 0.47 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 4 | 0.47 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 7 | 0.47 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 4 | 0.47 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 7 | 0.47 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 4 | 0.47 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 7 | 0.47 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 2 | 0.46 |
| (2,1294) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 5 | 0.46 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 7 | 0.46 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 7 | 0.46 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 7 | 0.46 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 7 | 0.46 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 7 | 0.46 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 7 | 0.46 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 4 | 0.46 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 4 | 0.46 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 4 | 0.46 |
| (2,1190) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG2 | 1 | 0.46 |
| (2,1190) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG3 | 1 | 0.46 |
| (2,1190) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG2 | 1 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1190) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG3 | 1 | 0.46 |
| (2,1190) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG2 | 1 | 0.46 |
| (2,1190) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG3 | 1 | 0.46 |
| (2,1190) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG2 | 3 | 0.46 |
| (2,1190) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG3 | 3 | 0.46 |
| (2,1190) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG2 | 3 | 0.46 |
| (2,1190) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG3 | 3 | 0.46 |
| (2,1190) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG2 | 3 | 0.46 |
| (2,1190) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG3 | 3 | 0.46 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 5 | 0.46 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 5 | 0.46 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 5 | 0.46 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 5 | 0.46 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 5 | 0.46 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 5 | 0.46 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 2 | 0.46 |
| (2,869) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 5 | 0.46 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 7 | 0.46 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 7 | 0.46 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 7 | 0.46 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 7 | 0.46 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 7 | 0.46 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 7 | 0.46 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 4 | 0.46 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 4 | 0.46 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 4 | 0.46 |
| (2,765) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG2 | 1 | 0.46 |
| (2,765) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG3 | 1 | 0.46 |
| (2,765) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG2 | 1 | 0.46 |
| (2,765) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG3 | 1 | 0.46 |
| (2,765) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG2 | 1 | 0.46 |
| (2,765) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG3 | 1 | 0.46 |
| (2,765) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG2 | 3 | 0.46 |
| (2,765) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG3 | 3 | 0.46 |
| (2,765) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG2 | 3 | 0.46 |
| (2,765) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG3 | 3 | 0.46 |
| (2,765) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG2 | 3 | 0.46 |
| (2,765) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG3 | 3 | 0.46 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 5 | 0.46 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 5 | 0.46 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 5 | 0.46 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 5 | 0.46 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 5 | 0.46 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 5 | 0.46 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 9 | 0.46 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 9 | 0.46 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 1 | 0.46 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 7 | 0.46 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 7 | 0.46 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 7 | 0.46 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 15 | 0.46 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 4 | 0.46 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 4 | 0.46 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 4 | 0.46 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 4 | 0.46 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 4 | 0.46 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 4 | 0.46 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 2 | 0.46 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 7 | 0.46 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 11 | 0.46 |
| (2,391) | 1:704:B:LEU:H | 1:704:B:LEU:HB2 | 1 | 0.46 |
| (2,355) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HA | 5 | 0.46 |
| (2,355) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HA | 5 | 0.46 |
| (2,355) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HA | 5 | 0.46 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 4 | 0.46 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 4 | 0.46 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 4 | 0.46 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 4 | 0.46 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 4 | 0.46 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 4 | 0.46 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 6 | 0.46 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 6 | 0.46 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 9 | 0.46 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 9 | 0.46 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE1 | 4 | 0.46 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE2 | 4 | 0.46 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE1 | 4 | 0.46 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE2 | 4 | 0.46 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE1 | 4 | 0.46 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE2 | 4 | 0.46 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 10 | 0.46 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 10 | 0.46 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 10 | 0.46 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 3 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 3 | 0.45 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 3 | 0.45 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 3 | 0.45 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 3 | 0.45 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 3 | 0.45 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 15 | 0.45 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 11 | 0.45 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 11 | 0.45 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 15 | 0.45 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 15 | 0.45 |
| (2,1294) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 12 | 0.45 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 2 | 0.45 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 2 | 0.45 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 2 | 0.45 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG21 | 9 | 0.45 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG22 | 9 | 0.45 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG23 | 9 | 0.45 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG21 | 9 | 0.45 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG22 | 9 | 0.45 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG23 | 9 | 0.45 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG21 | 9 | 0.45 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG22 | 9 | 0.45 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG23 | 9 | 0.45 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 3 | 0.45 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 3 | 0.45 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 3 | 0.45 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 3 | 0.45 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 3 | 0.45 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 3 | 0.45 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 15 | 0.45 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 11 | 0.45 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 11 | 0.45 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 15 | 0.45 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 15 | 0.45 |
| (2,869) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 12 | 0.45 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 2 | 0.45 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 2 | 0.45 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 2 | 0.45 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG21 | 9 | 0.45 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG22 | 9 | 0.45 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG23 | 9 | 0.45 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG21 | 9 | 0.45 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG22 | 9 | 0.45 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG23 | 9 | 0.45 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG21 | 9 | 0.45 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG22 | 9 | 0.45 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG23 | 9 | 0.45 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 14 | 0.45 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 14 | 0.45 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 1 | 0.45 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 3 | 0.45 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB1 | 14 | 0.45 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB2 | 14 | 0.45 |
| (2,612) | 1:790:B:TRP:HE1 | 1:792:B:ALA:HB3 | 14 | 0.45 |
| (2,499) | 1:754:B:ALA:HB1 | 1:753:B:LEU:HD21 | 11 | 0.45 |
| (2,499) | 1:754:B:ALA:HB1 | 1:753:B:LEU:HD22 | 11 | 0.45 |
| (2,499) | 1:754:B:ALA:HB1 | 1:753:B:LEU:HD23 | 11 | 0.45 |
| (2,499) | 1:754:B:ALA:HB2 | 1:753:B:LEU:HD21 | 11 | 0.45 |
| (2,499) | 1:754:B:ALA:HB2 | 1:753:B:LEU:HD22 | 11 | 0.45 |
| (2,499) | 1:754:B:ALA:HB2 | 1:753:B:LEU:HD23 | 11 | 0.45 |
| (2,499) | 1:754:B:ALA:HB3 | 1:753:B:LEU:HD21 | 11 | 0.45 |
| (2,499) | 1:754:B:ALA:HB3 | 1:753:B:LEU:HD22 | 11 | 0.45 |
| (2,499) | 1:754:B:ALA:HB3 | 1:753:B:LEU:HD23 | 11 | 0.45 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 10 | 0.45 |
| (2,457) | 1:740:B:ARG:H | 1:739:B:GLU:HA | 5 | 0.45 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 13 | 0.45 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 14 | 0.45 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 14 | 0.45 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 14 | 0.45 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD2 | 11 | 0.45 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD3 | 11 | 0.45 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD2 | 11 | 0.45 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD3 | 11 | 0.45 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD2 | 11 | 0.45 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD3 | 11 | 0.45 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 12 | 0.45 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 12 | 0.45 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 1 | 0.45 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 4 | 0.45 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 4 | 0.45 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 4 | 0.45 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 4 | 0.45 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 7 | 0.44 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 7 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 9 | 0.44 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 14 | 0.44 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 9 | 0.44 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 9 | 0.44 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 9 | 0.44 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 9 | 0.44 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 9 | 0.44 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 9 | 0.44 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 15 | 0.44 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 15 | 0.44 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 15 | 0.44 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 4 | 0.44 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 4 | 0.44 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 4 | 0.44 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 11 | 0.44 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 11 | 0.44 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 11 | 0.44 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 13 | 0.44 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 13 | 0.44 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 13 | 0.44 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 8 | 0.44 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 8 | 0.44 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 8 | 0.44 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 8 | 0.44 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 8 | 0.44 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 8 | 0.44 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 7 | 0.44 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 7 | 0.44 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 9 | 0.44 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 14 | 0.44 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 9 | 0.44 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 9 | 0.44 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 9 | 0.44 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 9 | 0.44 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 9 | 0.44 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 9 | 0.44 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 15 | 0.44 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 15 | 0.44 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 15 | 0.44 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 4 | 0.44 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 4 | 0.44 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 4 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 11 | 0.44 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 11 | 0.44 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 11 | 0.44 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 13 | 0.44 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 13 | 0.44 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 13 | 0.44 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 8 | 0.44 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 8 | 0.44 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 8 | 0.44 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 8 | 0.44 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 8 | 0.44 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 8 | 0.44 |
| (2,622) | 1:802:B:TYR:H | 1:803:B:TRP:HH2 | 7 | 0.44 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 13 | 0.44 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 10 | 0.44 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 10 | 0.44 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 10 | 0.44 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 10 | 0.44 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 10 | 0.44 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 10 | 0.44 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 10 | 0.44 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 10 | 0.44 |
| (2,473) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD22 | 5 | 0.44 |
| (2,473) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD22 | 5 | 0.44 |
| (2,473) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD22 | 5 | 0.44 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB2 | 6 | 0.44 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB3 | 6 | 0.44 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB2 | 6 | 0.44 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB3 | 6 | 0.44 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB2 | 6 | 0.44 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB3 | 6 | 0.44 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 2 | 0.44 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 6 | 0.44 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 2 | 0.44 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 2 | 0.44 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 2 | 0.44 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 2 | 0.44 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 2 | 0.44 |
| (2,169) | 1:797:B:TRP:HE1 | 1:848:B:ARG:HB2 | 9 | 0.44 |
| (2,169) | 1:797:B:TRP:HE1 | 1:848:B:ARG:HB3 | 9 | 0.44 |
| (2,148) | 1:790:B:TRP:HE1 | 1:851:B:LEU:HD11 | 14 | 0.44 |
| (2,148) | 1:790:B:TRP:HE1 | 1:851:B:LEU:HD12 | 14 | 0.44 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,148) | 1:790:B:TRP:HE1 | 1:851:B:LEU:HD13 | 14 | 0.44 |
| (2,148) | 1:790:B:TRP:HE1 | 1:851:B:LEU:HD21 | 14 | 0.44 |
| (2,148) | 1:790:B:TRP:HE1 | 1:851:B:LEU:HD22 | 14 | 0.44 |
| (2,148) | 1:790:B:TRP:HE1 | 1:851:B:LEU:HD23 | 14 | 0.44 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 9 | 0.44 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB2 | 7 | 0.44 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB3 | 7 | 0.44 |
| (2,81) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HA | 5 | 0.44 |
| (2,81) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HA | 5 | 0.44 |
| (2,81) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HA | 5 | 0.44 |
| (2,1472) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 11 | 0.43 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 11 | 0.43 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 12 | 0.43 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 3 | 0.43 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 15 | 0.43 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 1 | 0.43 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 14 | 0.43 |
| (2,1368) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 6 | 0.43 |
| (2,1368) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 6 | 0.43 |
| (2,1368) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 6 | 0.43 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 6 | 0.43 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 6 | 0.43 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 6 | 0.43 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 6 | 0.43 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 6 | 0.43 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 6 | 0.43 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 4 | 0.43 |
| (2,1294) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 4 | 0.43 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 1 | 0.43 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 6 | 0.43 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 6 | 0.43 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 6 | 0.43 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 8 | 0.43 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 8 | 0.43 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 8 | 0.43 |
| (2,1047) | 1:802:A:TYR:H | 1:803:A:TRP:HH2 | 11 | 0.43 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 11 | 0.43 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 12 | 0.43 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 3 | 0.43 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 15 | 0.43 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 1 | 0.43 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 14 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,943) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 6 | 0.43 |
| (2,943) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 6 | 0.43 |
| (2,943) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 6 | 0.43 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 6 | 0.43 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 6 | 0.43 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 6 | 0.43 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 6 | 0.43 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 6 | 0.43 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 6 | 0.43 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 4 | 0.43 |
| (2,869) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 4 | 0.43 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 1 | 0.43 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 6 | 0.43 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 6 | 0.43 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 6 | 0.43 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 8 | 0.43 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 8 | 0.43 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 8 | 0.43 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD11 | 8 | 0.43 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD12 | 8 | 0.43 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD13 | 8 | 0.43 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD21 | 8 | 0.43 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD22 | 8 | 0.43 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD23 | 8 | 0.43 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 2 | 0.43 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 2 | 0.43 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 2 | 0.43 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 2 | 0.43 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 2 | 0.43 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 2 | 0.43 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 3 | 0.43 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 3 | 0.43 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 3 | 0.43 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 3 | 0.43 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 3 | 0.43 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 3 | 0.43 |
| (2,492) | 1:753:B:LEU:HD21 | 1:750:B:ASN:HB2 | 7 | 0.43 |
| (2,492) | 1:753:B:LEU:HD21 | 1:750:B:ASN:HB3 | 7 | 0.43 |
| (2,492) | 1:753:B:LEU:HD22 | 1:750:B:ASN:HB2 | 7 | 0.43 |
| (2,492) | 1:753:B:LEU:HD22 | 1:750:B:ASN:HB3 | 7 | 0.43 |
| (2,492) | 1:753:B:LEU:HD23 | 1:750:B:ASN:HB2 | 7 | 0.43 |
| (2,492) | 1:753:B:LEU:HD23 | 1:750:B:ASN:HB3 | 7 | 0.43 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB2 | 10 | 0.43 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB3 | 10 | 0.43 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB2 | 10 | 0.43 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB3 | 10 | 0.43 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB2 | 10 | 0.43 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB3 | 10 | 0.43 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 3 | 0.43 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 14 | 0.43 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 15 | 0.43 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 15 | 0.43 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 15 | 0.43 |
| (2,355) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HA | 12 | 0.43 |
| (2,355) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HA | 12 | 0.43 |
| (2,355) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HA | 12 | 0.43 |
| (2,333) | 1:692:B:LEU:HD11 | 1:696:B:ARG:HH11 | 4 | 0.43 |
| (2,333) | 1:692:B:LEU:HD11 | 1:696:B:ARG:HH12 | 4 | 0.43 |
| (2,296) | 1:682:B:ILE:HD11 | 1:681:B:TYR:H | 13 | 0.43 |
| (2,296) | 1:682:B:ILE:HD12 | 1:681:B:TYR:H | 13 | 0.43 |
| (2,296) | 1:682:B:ILE:HD13 | 1:681:B:TYR:H | 13 | 0.43 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 13 | 0.43 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 13 | 0.43 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 13 | 0.43 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 9 | 0.43 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 9 | 0.43 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 9 | 0.43 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG12 | 1 | 0.43 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG13 | 1 | 0.43 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 7 | 0.43 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 7 | 0.43 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 9 | 0.43 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 9 | 0.43 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 13 | 0.43 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 13 | 0.43 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 13 | 0.43 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 13 | 0.43 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD21 | 7 | 0.43 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD22 | 7 | 0.43 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD23 | 7 | 0.43 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 9 | 0.43 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 9 | 0.43 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 9 | 0.43 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD11 | 6 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD12 | 6 | 0.42 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD13 | 6 | 0.42 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 1 | 0.42 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 1 | 0.42 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 1 | 0.42 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 1 | 0.42 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 1 | 0.42 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 1 | 0.42 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 15 | 0.42 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 2 | 0.42 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 2 | 0.42 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 2 | 0.42 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 2 | 0.42 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 2 | 0.42 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 2 | 0.42 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 11 | 0.42 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 11 | 0.42 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 3 | 0.42 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 3 | 0.42 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 3 | 0.42 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 6 | 0.42 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 6 | 0.42 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 6 | 0.42 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 6 | 0.42 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 6 | 0.42 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 6 | 0.42 |
| (2,1189) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 1 | 0.42 |
| (2,1189) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 1 | 0.42 |
| (2,1189) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 1 | 0.42 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 1 | 0.42 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 1 | 0.42 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 1 | 0.42 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD11 | 6 | 0.42 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD12 | 6 | 0.42 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD13 | 6 | 0.42 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 1 | 0.42 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 1 | 0.42 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 1 | 0.42 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 1 | 0.42 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 1 | 0.42 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 1 | 0.42 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 15 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 2 | 0.42 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 2 | 0.42 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 2 | 0.42 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 2 | 0.42 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 2 | 0.42 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 2 | 0.42 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 11 | 0.42 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 11 | 0.42 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 3 | 0.42 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 3 | 0.42 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 3 | 0.42 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 6 | 0.42 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 6 | 0.42 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 6 | 0.42 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 6 | 0.42 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 6 | 0.42 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 6 | 0.42 |
| (2,764) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 1 | 0.42 |
| (2,764) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 1 | 0.42 |
| (2,764) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 1 | 0.42 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 1 | 0.42 |
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 1 | 0.42 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 1 | 0.42 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 2 | 0.42 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 14 | 0.42 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 7 | 0.42 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 7 | 0.42 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 7 | 0.42 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 7 | 0.42 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 7 | 0.42 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 7 | 0.42 |
| (2,492) | 1:753:B:LEU:HD21 | 1:750:B:ASN:HB2 | 8 | 0.42 |
| (2,492) | 1:753:B:LEU:HD21 | 1:750:B:ASN:HB3 | 8 | 0.42 |
| (2,492) | 1:753:B:LEU:HD22 | 1:750:B:ASN:HB2 | 8 | 0.42 |
| (2,492) | 1:753:B:LEU:HD22 | 1:750:B:ASN:HB3 | 8 | 0.42 |
| (2,492) | 1:753:B:LEU:HD23 | 1:750:B:ASN:HB2 | 8 | 0.42 |
| (2,492) | 1:753:B:LEU:HD23 | 1:750:B:ASN:HB3 | 8 | 0.42 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 5 | 0.42 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 3 | 0.42 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 3 | 0.42 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 8 | 0.42 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 3 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 8 | 0.42 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 8 | 0.42 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 8 | 0.42 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 8 | 0.42 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 8 | 0.42 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 8 | 0.42 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 10 | 0.42 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 10 | 0.42 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 10 | 0.42 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 10 | 0.42 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 10 | 0.42 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 10 | 0.42 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 15 | 0.42 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 15 | 0.42 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 15 | 0.42 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 15 | 0.42 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 15 | 0.42 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 15 | 0.42 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 2 | 0.42 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 2 | 0.42 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 2 | 0.42 |
| (2,355) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HA | 1 | 0.42 |
| (2,355) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HA | 1 | 0.42 |
| (2,355) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HA | 1 | 0.42 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 10 | 0.42 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 10 | 0.42 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 10 | 0.42 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 10 | 0.42 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD21 | 4 | 0.42 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD22 | 4 | 0.42 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD23 | 4 | 0.42 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 6 | 0.42 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 6 | 0.42 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 6 | 0.42 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 6 | 0.42 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 6 | 0.42 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 6 | 0.42 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 2 | 0.42 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 2 | 0.42 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 4 | 0.42 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 4 | 0.42 |
| (2,81) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HA | 11 | 0.42 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,81) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HA | 11 | 0.42 |
| (2,81) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HA | 11 | 0.42 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 3 | 0.42 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 3 | 0.42 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 3 | 0.42 |
| (2,1487) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD1 | 4 | 0.41 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 10 | 0.41 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 12 | 0.41 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 6 | 0.41 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 6 | 0.41 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 2 | 0.41 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 2 | 0.41 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 2 | 0.41 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 2 | 0.41 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 2 | 0.41 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 2 | 0.41 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 1 | 0.41 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 1 | 0.41 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 1 | 0.41 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 1 | 0.41 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 1 | 0.41 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 1 | 0.41 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 1 | 0.41 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 1 | 0.41 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 1 | 0.41 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 7 | 0.41 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 7 | 0.41 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 7 | 0.41 |
| (2,1185) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA2 | 1 | 0.41 |
| (2,1185) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA3 | 1 | 0.41 |
| (2,1185) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA2 | 1 | 0.41 |
| (2,1185) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA3 | 1 | 0.41 |
| (2,1185) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA2 | 1 | 0.41 |
| (2,1185) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA3 | 1 | 0.41 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH11 | 13 | 0.41 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH12 | 13 | 0.41 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 7 | 0.41 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 7 | 0.41 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 7 | 0.41 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 7 | 0.41 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 7 | 0.41 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 7 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 10 | 0.41 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 10 | 0.41 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 10 | 0.41 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 10 | 0.41 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 10 | 0.41 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 10 | 0.41 |
| (2,1062) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD1 | 4 | 0.41 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 10 | 0.41 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 12 | 0.41 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 6 | 0.41 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 6 | 0.41 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 2 | 0.41 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 2 | 0.41 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 2 | 0.41 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 2 | 0.41 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 2 | 0.41 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 2 | 0.41 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 1 | 0.41 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 1 | 0.41 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 1 | 0.41 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 1 | 0.41 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 1 | 0.41 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 1 | 0.41 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 1 | 0.41 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 1 | 0.41 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 1 | 0.41 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 7 | 0.41 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 7 | 0.41 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 7 | 0.41 |
| (2,760) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA2 | 1 | 0.41 |
| (2,760) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA3 | 1 | 0.41 |
| (2,760) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA2 | 1 | 0.41 |
| (2,760) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA3 | 1 | 0.41 |
| (2,760) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA2 | 1 | 0.41 |
| (2,760) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA3 | 1 | 0.41 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH11 | 13 | 0.41 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH12 | 13 | 0.41 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 7 | 0.41 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 7 | 0.41 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 7 | 0.41 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 7 | 0.41 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 7 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 7 | 0.41 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 10 | 0.41 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 10 | 0.41 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 10 | 0.41 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 10 | 0.41 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 10 | 0.41 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 10 | 0.41 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 8 | 0.41 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 11 | 0.41 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 11 | 0.41 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 11 | 0.41 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 11 | 0.41 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 11 | 0.41 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 11 | 0.41 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 13 | 0.41 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 13 | 0.41 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 13 | 0.41 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 13 | 0.41 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 13 | 0.41 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 13 | 0.41 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB2 | 5 | 0.41 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB3 | 5 | 0.41 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 3 | 0.41 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 3 | 0.41 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 3 | 0.41 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 7 | 0.41 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 9 | 0.41 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 15 | 0.41 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 10 | 0.41 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 10 | 0.41 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 10 | 0.41 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 11 | 0.41 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 11 | 0.41 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 11 | 0.41 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 1 | 0.41 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 1 | 0.41 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 1 | 0.41 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 15 | 0.41 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 15 | 0.41 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 15 | 0.41 |
| (2,169) | 1:797:B:TRP:HE1 | 1:848:B:ARG:HB2 | 14 | 0.41 |
| (2,169) | 1:797:B:TRP:HE1 | 1:848:B:ARG:HB3 | 14 | 0.41 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD1 | 13 | 0.41 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD2 | 13 | 0.41 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 2 | 0.41 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 2 | 0.41 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 2 | 0.41 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 2 | 0.41 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 2 | 0.41 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 2 | 0.41 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 8 | 0.41 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 8 | 0.41 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 8 | 0.41 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 2 | 0.41 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 2 | 0.41 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 2 | 0.41 |
| (2,1482) | 1:852:A:GLU:H | 1:848:A:ARG:HG2 | 8 | 0.4 |
| (2,1482) | 1:852:A:GLU:H | 1:848:A:ARG:HG3 | 8 | 0.4 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 9 | 0.4 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 14 | 0.4 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 5 | 0.4 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 9 | 0.4 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 15 | 0.4 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 5 | 0.4 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 3 | 0.4 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 3 | 0.4 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 3 | 0.4 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 3 | 0.4 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 3 | 0.4 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 3 | 0.4 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 13 | 0.4 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 13 | 0.4 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 13 | 0.4 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 13 | 0.4 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 13 | 0.4 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 13 | 0.4 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 3 | 0.4 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 3 | 0.4 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 3 | 0.4 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 3 | 0.4 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 3 | 0.4 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 3 | 0.4 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 6 | 0.4 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 6 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 6 | 0.4 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 6 | 0.4 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 6 | 0.4 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 6 | 0.4 |
| (2,1057) | 1:852:A:GLU:H | 1:848:A:ARG:HG2 | 8 | 0.4 |
| (2,1057) | 1:852:A:GLU:H | 1:848:A:ARG:HG3 | 8 | 0.4 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 9 | 0.4 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 14 | 0.4 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 5 | 0.4 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 9 | 0.4 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 15 | 0.4 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 5 | 0.4 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 3 | 0.4 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 3 | 0.4 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 3 | 0.4 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 3 | 0.4 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 3 | 0.4 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 3 | 0.4 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 13 | 0.4 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 13 | 0.4 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 13 | 0.4 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 13 | 0.4 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 13 | 0.4 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 13 | 0.4 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 3 | 0.4 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 3 | 0.4 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 3 | 0.4 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 3 | 0.4 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 3 | 0.4 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 3 | 0.4 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 6 | 0.4 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 6 | 0.4 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 6 | 0.4 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 6 | 0.4 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 6 | 0.4 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 6 | 0.4 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 4 | 0.4 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 7 | 0.4 |
| (2,420) | 1:707:B:ARG:H | 1:707:B:ARG:HG2 | 9 | 0.4 |
| (2,420) | 1:707:B:ARG:H | 1:707:B:ARG:HG3 | 9 | 0.4 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 5 | 0.4 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 5 | 0.4 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 5 | 0.4 |
| (2,295) | 1:682:B:ILE:HG21 | 1:685:B:PHE:HD1 | 13 | 0.4 |
| (2,295) | 1:682:B:ILE:HG21 | 1:685:B:PHE:HD2 | 13 | 0.4 |
| (2,295) | 1:682:B:ILE:HG22 | 1:685:B:PHE:HD1 | 13 | 0.4 |
| (2,295) | 1:682:B:ILE:HG22 | 1:685:B:PHE:HD2 | 13 | 0.4 |
| (2,295) | 1:682:B:ILE:HG23 | 1:685:B:PHE:HD1 | 13 | 0.4 |
| (2,295) | 1:682:B:ILE:HG23 | 1:685:B:PHE:HD2 | 13 | 0.4 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 6 | 0.4 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 6 | 0.4 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 6 | 0.4 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 6 | 0.4 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 10 | 0.4 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 10 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD11 | 5 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD12 | 5 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD13 | 5 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD21 | 5 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD22 | 5 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD23 | 5 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD11 | 10 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD12 | 10 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD13 | 10 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD21 | 10 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD22 | 10 | 0.4 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD23 | 10 | 0.4 |
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB2 | 3 | 0.4 |
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB3 | 3 | 0.4 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 7 | 0.4 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 6 | 0.4 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 7 | 0.4 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 6 | 0.4 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 7 | 0.4 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 6 | 0.4 |
| (2,1482) | 1:852:A:GLU:H | 1:848:A:ARG:HG2 | 3 | 0.39 |
| (2,1482) | 1:852:A:GLU:H | 1:848:A:ARG:HG3 | 3 | 0.39 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 1 | 0.39 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 7 | 0.39 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 3 | 0.39 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 3 | 0.39 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 5 | 0.39 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 7 | 0.39 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 11 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 13 | 0.39 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 13 | 0.39 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 3 | 0.39 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 3 | 0.39 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 3 | 0.39 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 15 | 0.39 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 15 | 0.39 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 15 | 0.39 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 14 | 0.39 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 14 | 0.39 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 14 | 0.39 |
| (2,1057) | 1:852:A:GLU:H | 1:848:A:ARG:HG2 | 3 | 0.39 |
| (2,1057) | 1:852:A:GLU:H | 1:848:A:ARG:HG3 | 3 | 0.39 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 1 | 0.39 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 7 | 0.39 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 3 | 0.39 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 3 | 0.39 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 5 | 0.39 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 7 | 0.39 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 11 | 0.39 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 13 | 0.39 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 13 | 0.39 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 3 | 0.39 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 3 | 0.39 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 3 | 0.39 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 15 | 0.39 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 15 | 0.39 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 15 | 0.39 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 14 | 0.39 |
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 14 | 0.39 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 14 | 0.39 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 11 | 0.39 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 5 | 0.39 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 5 | 0.39 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 5 | 0.39 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 5 | 0.39 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 5 | 0.39 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 5 | 0.39 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 7 | 0.39 |
| (2,390) | 1:704:B:LEU:H | 1:704:B:LEU:HB3 | 5 | 0.39 |
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB1 | 15 | 0.39 |
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB2 | 15 | 0.39 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB3 | 15 | 0.39 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB1 | 15 | 0.39 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB2 | 15 | 0.39 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB3 | 15 | 0.39 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB1 | 15 | 0.39 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB2 | 15 | 0.39 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB3 | 15 | 0.39 |
| (2,213) | 1:839:A:ALA:H | 1:808:A:LYS:HZ1 | 9 | 0.39 |
| (2,213) | 1:839:A:ALA:H | 1:808:A:LYS:HZ2 | 9 | 0.39 |
| (2,213) | 1:839:A:ALA:H | 1:808:A:LYS:HZ3 | 9 | 0.39 |
| (2,212) | 1:839:A:ALA:H | 1:808:A:LYS:HZ1 | 9 | 0.39 |
| (2,212) | 1:839:A:ALA:H | 1:808:A:LYS:HZ2 | 9 | 0.39 |
| (2,212) | 1:839:A:ALA:H | 1:808:A:LYS:HZ3 | 9 | 0.39 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 8 | 0.39 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 8 | 0.39 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 8 | 0.39 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 8 | 0.39 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 7 | 0.39 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 7 | 0.39 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 5 | 0.39 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 5 | 0.39 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD1 | 15 | 0.39 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD2 | 15 | 0.39 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD2 | 7 | 0.39 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD3 | 7 | 0.39 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 13 | 0.39 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 13 | 0.39 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 14 | 0.39 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 14 | 0.39 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 12 | 0.39 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 12 | 0.39 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 12 | 0.39 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 12 | 0.39 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 12 | 0.39 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 12 | 0.39 |
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB2 | 2 | 0.39 |
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB3 | 2 | 0.39 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 6 | 0.38 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 6 | 0.38 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 4 | 0.38 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 8 | 0.38 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 12 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 12 | 0.38 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 3 | 0.38 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 9 | 0.38 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 12 | 0.38 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 1 | 0.38 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 10 | 0.38 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 10 | 0.38 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 10 | 0.38 |
| (2,1223) | 1:701:A:VAL:HG21 | 1:698:A:VAL:HA | 6 | 0.38 |
| (2,1223) | 1:701:A:VAL:HG22 | 1:698:A:VAL:HA | 6 | 0.38 |
| (2,1223) | 1:701:A:VAL:HG23 | 1:698:A:VAL:HA | 6 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH11 | 12 | 0.38 |
| (2,1183) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH12 | 12 | 0.38 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 2 | 0.38 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 2 | 0.38 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 2 | 0.38 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 2 | 0.38 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 2 | 0.38 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 2 | 0.38 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 15 | 0.38 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 15 | 0.38 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 15 | 0.38 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 6 | 0.38 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 6 | 0.38 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 4 | 0.38 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 8 | 0.38 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 12 | 0.38 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 12 | 0.38 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 3 | 0.38 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 9 | 0.38 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 12 | 0.38 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 1 | 0.38 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 10 | 0.38 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 10 | 0.38 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 10 | 0.38 |
| (2,798) | 1:701:A:VAL:HG21 | 1:698:A:VAL:HA | 6 | 0.38 |
| (2,798) | 1:701:A:VAL:HG22 | 1:698:A:VAL:HA | 6 | 0.38 |
| (2,798) | 1:701:A:VAL:HG23 | 1:698:A:VAL:HA | 6 | 0.38 |
| (2,758) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH11 | 12 | 0.38 |
| (2,758) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH12 | 12 | 0.38 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 2 | 0.38 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 2 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 2 | 0.38 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 2 | 0.38 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 2 | 0.38 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 2 | 0.38 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 15 | 0.38 |
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 15 | 0.38 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 15 | 0.38 |
| (2,626) | 1:817:B:ALA:H | 1:816:B:ASN:HB2 | 13 | 0.38 |
| (2,626) | 1:817:B:ALA:H | 1:816:B:ASN:HB3 | 13 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD11 | 4 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD12 | 4 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD13 | 4 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD21 | 4 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD22 | 4 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD23 | 4 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD11 | 11 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD12 | 11 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD13 | 11 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD21 | 11 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD22 | 11 | 0.38 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD23 | 11 | 0.38 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 9 | 0.38 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 9 | 0.38 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 9 | 0.38 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 7 | 0.38 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 12 | 0.38 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 15 | 0.38 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 9 | 0.38 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 6 | 0.38 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 6 | 0.38 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 6 | 0.38 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 8 | 0.38 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 15 | 0.38 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 3 | 0.38 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 3 | 0.38 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 3 | 0.38 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 3 | 0.38 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 3 | 0.38 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 3 | 0.38 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD2 | 9 | 0.38 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD3 | 9 | 0.38 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD2 | 9 | 0.38 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD3 | 9 | 0.38 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD2 | 9 | 0.38 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD3 | 9 | 0.38 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 5 | 0.38 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 5 | 0.38 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 1 | 0.38 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 1 | 0.38 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 1 | 0.38 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 1 | 0.38 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 1 | 0.38 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 1 | 0.38 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 8 | 0.38 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 8 | 0.38 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 8 | 0.38 |
| (2,1486) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 7 | 0.37 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 1 | 0.37 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 1 | 0.37 |
| (2,1375) | 1:771:A:LEU:HD11 | 1:764:A:SER:HA | 7 | 0.37 |
| (2,1375) | 1:771:A:LEU:HD12 | 1:764:A:SER:HA | 7 | 0.37 |
| (2,1375) | 1:771:A:LEU:HD13 | 1:764:A:SER:HA | 7 | 0.37 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 7 | 0.37 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 7 | 0.37 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 3 | 0.37 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 6 | 0.37 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 6 | 0.37 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 6 | 0.37 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 14 | 0.37 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 14 | 0.37 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 14 | 0.37 |
| (2,1189) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 4 | 0.37 |
| (2,1189) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 4 | 0.37 |
| (2,1189) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 4 | 0.37 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 12 | 0.37 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 12 | 0.37 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 12 | 0.37 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 3 | 0.37 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 3 | 0.37 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 3 | 0.37 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 3 | 0.37 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 3 | 0.37 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 3 | 0.37 |
| (2,1061) | 1:761:A:ARG:HH21 | 1:758:A:ASP:OD1 | 7 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 1 | 0.37 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 1 | 0.37 |
| (2,950) | 1:771:A:LEU:HD11 | 1:764:A:SER:HA | 7 | 0.37 |
| (2,950) | 1:771:A:LEU:HD12 | 1:764:A:SER:HA | 7 | 0.37 |
| (2,950) | 1:771:A:LEU:HD13 | 1:764:A:SER:HA | 7 | 0.37 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 7 | 0.37 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 7 | 0.37 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 3 | 0.37 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 6 | 0.37 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 6 | 0.37 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 6 | 0.37 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 14 | 0.37 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 14 | 0.37 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 14 | 0.37 |
| (2,764) | 1:693:A:ILE:HG21 | 1:694:A:GLY:H | 4 | 0.37 |
| (2,764) | 1:693:A:ILE:HG22 | 1:694:A:GLY:H | 4 | 0.37 |
| (2,764) | 1:693:A:ILE:HG23 | 1:694:A:GLY:H | 4 | 0.37 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 12 | 0.37 |
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 12 | 0.37 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 12 | 0.37 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 3 | 0.37 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 3 | 0.37 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 3 | 0.37 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 3 | 0.37 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 3 | 0.37 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 3 | 0.37 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 15 | 0.37 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 10 | 0.37 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 12 | 0.37 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 12 | 0.37 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB2 | 9 | 0.37 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB3 | 9 | 0.37 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 6 | 0.37 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 6 | 0.37 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 13 | 0.37 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 13 | 0.37 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 13 | 0.37 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 13 | 0.37 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 13 | 0.37 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 13 | 0.37 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 14 | 0.37 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 14 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 14 | 0.37 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 14 | 0.37 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 14 | 0.37 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 14 | 0.37 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB2 | 1 | 0.37 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB3 | 1 | 0.37 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB2 | 1 | 0.37 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB3 | 1 | 0.37 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB2 | 1 | 0.37 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB3 | 1 | 0.37 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 1 | 0.37 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 1 | 0.37 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 1 | 0.37 |
| (2,228) | 1:665:B:LYS:H | 1:662:B:GLU:HA | 9 | 0.37 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 6 | 0.37 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 6 | 0.37 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 6 | 0.37 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 10 | 0.37 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 10 | 0.37 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 10 | 0.37 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 5 | 0.37 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 5 | 0.37 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 5 | 0.37 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 5 | 0.37 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 6 | 0.37 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 6 | 0.37 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 6 | 0.37 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 6 | 0.37 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 8 | 0.37 |
| (2,160) | 1:794:B:LYS:H | 1:848:B:ARG:HG2 | 12 | 0.37 |
| (2,160) | 1:794:B:LYS:H | 1:848:B:ARG:HG3 | 12 | 0.37 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 12 | 0.37 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 12 | 0.37 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD1 | 14 | 0.37 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD2 | 14 | 0.37 |
| (2,81) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HA | 4 | 0.37 |
| (2,81) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HA | 4 | 0.37 |
| (2,81) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HA | 4 | 0.37 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB2 | 11 | 0.37 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB3 | 11 | 0.37 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB2 | 11 | 0.37 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB3 | 11 | 0.37 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB2 | 11 | 0.37 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB3 | 11 | 0.37 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD11 | 6 | 0.37 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD12 | 6 | 0.37 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD13 | 6 | 0.37 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG21 | 8 | 0.37 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG22 | 8 | 0.37 |
| (2,27) | 1:686:A:ILE:H | 1:686:B:ILE:HG23 | 8 | 0.37 |
| (2,12) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HZ2 | 11 | 0.37 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 4 | 0.37 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 9 | 0.37 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 4 | 0.37 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 9 | 0.37 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 4 | 0.37 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 9 | 0.37 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 2 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 1 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 1 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 1 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 1 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 1 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 1 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 5 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 5 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 5 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 5 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 5 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 5 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 10 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 10 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 10 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 10 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 10 | 0.36 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 10 | 0.36 |
| (2,1368) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 11 | 0.36 |
| (2,1368) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 11 | 0.36 |
| (2,1368) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 11 | 0.36 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 7 | 0.36 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 9 | 0.36 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 10 | 0.36 |
| (2,1322) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 5 | 0.36 |
| (2,1322) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 5 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,1322) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 5 | 0.36 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 2 | 0.36 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 8 | 0.36 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 8 | 0.36 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 8 | 0.36 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 8 | 0.36 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 8 | 0.36 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 8 | 0.36 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 9 | 0.36 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 9 | 0.36 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 9 | 0.36 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 9 | 0.36 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 9 | 0.36 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 8 | 0.36 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 8 | 0.36 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 8 | 0.36 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 8 | 0.36 |
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 8 | 0.36 |
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 8 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 10 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 10 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 10 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 10 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 10 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 10 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 15 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 15 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 15 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 15 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 15 | 0.36 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 15 | 0.36 |
| (2,1128) | 1:676:A:THR:HG21 | 1:670:A:TRP:HE1 | 5 | 0.36 |
| (2,1128) | 1:676:A:THR:HG22 | 1:670:A:TRP:HE1 | 5 | 0.36 |
| (2,1128) | 1:676:A:THR:HG23 | 1:670:A:TRP:HE1 | 5 | 0.36 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 2 | 0.36 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 1 | 0.36 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 1 | 0.36 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 1 | 0.36 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 1 | 0.36 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 1 | 0.36 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 1 | 0.36 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 5 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 5 | 0.36 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 5 | 0.36 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 5 | 0.36 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 5 | 0.36 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 5 | 0.36 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 10 | 0.36 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 10 | 0.36 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 10 | 0.36 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 10 | 0.36 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 10 | 0.36 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 10 | 0.36 |
| (2,943) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 11 | 0.36 |
| (2,943) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 11 | 0.36 |
| (2,943) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 11 | 0.36 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 7 | 0.36 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 9 | 0.36 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 10 | 0.36 |
| (2,897) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 5 | 0.36 |
| (2,897) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 5 | 0.36 |
| (2,897) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 5 | 0.36 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 2 | 0.36 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 8 | 0.36 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 8 | 0.36 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 8 | 0.36 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 8 | 0.36 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 8 | 0.36 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 8 | 0.36 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 9 | 0.36 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 9 | 0.36 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 9 | 0.36 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 9 | 0.36 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 9 | 0.36 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 8 | 0.36 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 8 | 0.36 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 8 | 0.36 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 8 | 0.36 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 8 | 0.36 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 8 | 0.36 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 10 | 0.36 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 10 | 0.36 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 10 | 0.36 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 10 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 10 | 0.36 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 10 | 0.36 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 15 | 0.36 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 15 | 0.36 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 15 | 0.36 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 15 | 0.36 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 15 | 0.36 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 15 | 0.36 |
| (2,703) | 1:676:A:THR:HG21 | 1:670:A:TRP:HE1 | 5 | 0.36 |
| (2,703) | 1:676:A:THR:HG22 | 1:670:A:TRP:HE1 | 5 | 0.36 |
| (2,703) | 1:676:A:THR:HG23 | 1:670:A:TRP:HE1 | 5 | 0.36 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD11 | 14 | 0.36 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD12 | 14 | 0.36 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD13 | 14 | 0.36 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD21 | 14 | 0.36 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD22 | 14 | 0.36 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD23 | 14 | 0.36 |
| (2,614) | 1:793:B:LEU:H | 1:790:B:TRP:HE3 | 9 | 0.36 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 8 | 0.36 |
| (2,545) | 1:775:B:LEU:HD11 | 1:772:B:ARG:HA | 8 | 0.36 |
| (2,545) | 1:775:B:LEU:HD12 | 1:772:B:ARG:HA | 8 | 0.36 |
| (2,545) | 1:775:B:LEU:HD13 | 1:772:B:ARG:HA | 8 | 0.36 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 13 | 0.36 |
| (2,518) | 1:763:B:LEU:HD11 | 1:759:B:ASP:HA | 2 | 0.36 |
| (2,518) | 1:763:B:LEU:HD12 | 1:759:B:ASP:HA | 2 | 0.36 |
| (2,518) | 1:763:B:LEU:HD13 | 1:759:B:ASP:HA | 2 | 0.36 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB2 | 14 | 0.36 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB3 | 14 | 0.36 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 9 | 0.36 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 9 | 0.36 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 9 | 0.36 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 11 | 0.36 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD11 | 13 | 0.36 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD12 | 13 | 0.36 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD13 | 13 | 0.36 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD21 | 13 | 0.36 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD22 | 13 | 0.36 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD23 | 13 | 0.36 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 3 | 0.36 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 3 | 0.36 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 3 | 0.36 |
| (2,355) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HA | 3 | 0.36 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,355) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HA | 3 | 0.36 |
| (2,355) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HA | 3 | 0.36 |
| (2,355) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HA | 15 | 0.36 |
| (2,355) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HA | 15 | 0.36 |
| (2,355) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HA | 15 | 0.36 |
| (2,268) | 1:672:B:TRP:H | 1:673:B:PHE:H | 6 | 0.36 |
| (2,234) | 1:666:B:TRP:H | 1:663:B:LEU:HA | 7 | 0.36 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD11 | 15 | 0.36 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD12 | 15 | 0.36 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD13 | 15 | 0.36 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 5 | 0.36 |
| (2,81) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HA | 6 | 0.36 |
| (2,81) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HA | 6 | 0.36 |
| (2,81) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HA | 6 | 0.36 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 7 | 0.36 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 7 | 0.36 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 7 | 0.36 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 7 | 0.36 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 7 | 0.36 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 7 | 0.36 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD11 | 3 | 0.36 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD12 | 3 | 0.36 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD13 | 3 | 0.36 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 2 | 0.36 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 10 | 0.36 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 12 | 0.36 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 13 | 0.36 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 2 | 0.36 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 10 | 0.36 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 12 | 0.36 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 13 | 0.36 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 2 | 0.36 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 10 | 0.36 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 12 | 0.36 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 13 | 0.36 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 2 | 0.35 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 2 | 0.35 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 13 | 0.35 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 13 | 0.35 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 13 | 0.35 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 13 | 0.35 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 13 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 13 | 0.35 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 6 | 0.35 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 6 | 0.35 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 6 | 0.35 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 6 | 0.35 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 6 | 0.35 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 6 | 0.35 |
| (2,1451) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 7 | 0.35 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 15 | 0.35 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 1 | 0.35 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 2 | 0.35 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 1 | 0.35 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 14 | 0.35 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 14 | 0.35 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 14 | 0.35 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 14 | 0.35 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 14 | 0.35 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 14 | 0.35 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 13 | 0.35 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 1 | 0.35 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 1 | 0.35 |
| (2,1321) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB2 | 7 | 0.35 |
| (2,1321) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB3 | 7 | 0.35 |
| (2,1321) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB2 | 7 | 0.35 |
| (2,1321) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB3 | 7 | 0.35 |
| (2,1321) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB2 | 7 | 0.35 |
| (2,1321) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB3 | 7 | 0.35 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 11 | 0.35 |
| (2,1294) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 14 | 0.35 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 11 | 0.35 |
| (2,1182) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB2 | 13 | 0.35 |
| (2,1182) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB3 | 13 | 0.35 |
| (2,1182) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB2 | 13 | 0.35 |
| (2,1182) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB3 | 13 | 0.35 |
| (2,1182) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB2 | 13 | 0.35 |
| (2,1182) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB3 | 13 | 0.35 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 5 | 0.35 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 2 | 0.35 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 2 | 0.35 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 13 | 0.35 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 13 | 0.35 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 13 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 13 | 0.35 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 13 | 0.35 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 13 | 0.35 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 6 | 0.35 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 6 | 0.35 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 6 | 0.35 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 6 | 0.35 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 6 | 0.35 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 6 | 0.35 |
| (2,1026) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 7 | 0.35 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 15 | 0.35 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 1 | 0.35 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 2 | 0.35 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 1 | 0.35 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 14 | 0.35 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 14 | 0.35 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 14 | 0.35 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 14 | 0.35 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 14 | 0.35 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 14 | 0.35 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 13 | 0.35 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 1 | 0.35 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 1 | 0.35 |
| (2,896) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB2 | 7 | 0.35 |
| (2,896) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB3 | 7 | 0.35 |
| (2,896) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB2 | 7 | 0.35 |
| (2,896) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB3 | 7 | 0.35 |
| (2,896) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB2 | 7 | 0.35 |
| (2,896) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB3 | 7 | 0.35 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 11 | 0.35 |
| (2,869) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 14 | 0.35 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 11 | 0.35 |
| (2,757) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB2 | 13 | 0.35 |
| (2,757) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB3 | 13 | 0.35 |
| (2,757) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB2 | 13 | 0.35 |
| (2,757) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB3 | 13 | 0.35 |
| (2,757) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB2 | 13 | 0.35 |
| (2,757) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB3 | 13 | 0.35 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 5 | 0.35 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG11 | 13 | 0.35 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG12 | 13 | 0.35 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG13 | 13 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG21 | 13 | 0.35 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG22 | 13 | 0.35 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG23 | 13 | 0.35 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD11 | 10 | 0.35 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD12 | 10 | 0.35 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD13 | 10 | 0.35 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 5 | 0.35 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 5 | 0.35 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 5 | 0.35 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 5 | 0.35 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 6 | 0.35 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 6 | 0.35 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 6 | 0.35 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 6 | 0.35 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 6 | 0.35 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 6 | 0.35 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 15 | 0.35 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 15 | 0.35 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 15 | 0.35 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 15 | 0.35 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 15 | 0.35 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 15 | 0.35 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 11 | 0.35 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 11 | 0.35 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 11 | 0.35 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 11 | 0.35 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 11 | 0.35 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 11 | 0.35 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 10 | 0.35 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 10 | 0.35 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 10 | 0.35 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 10 | 0.35 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 10 | 0.35 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB2 | 12 | 0.35 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB3 | 12 | 0.35 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB2 | 12 | 0.35 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB3 | 12 | 0.35 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB2 | 12 | 0.35 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB3 | 12 | 0.35 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 1 | 0.35 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 1 | 0.35 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 1 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 1 | 0.35 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 1 | 0.35 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 1 | 0.35 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 1 | 0.35 |
| (2,420) | 1:707:B:ARG:H | 1:707:B:ARG:HG2 | 15 | 0.35 |
| (2,420) | 1:707:B:ARG:H | 1:707:B:ARG:HG3 | 15 | 0.35 |
| (2,241) | 1:666:B:TRP:HE1 | 1:662:B:GLU:H | 7 | 0.35 |
| (2,234) | 1:666:B:TRP:H | 1:663:B:LEU:HA | 2 | 0.35 |
| (2,228) | 1:665:B:LYS:H | 1:662:B:GLU:HA | 5 | 0.35 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 10 | 0.35 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 10 | 0.35 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 14 | 0.35 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 14 | 0.35 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 14 | 0.35 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 14 | 0.35 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 14 | 0.35 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 14 | 0.35 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD21 | 3 | 0.35 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD22 | 3 | 0.35 |
| (2,165) | 1:796:A:TRP:HE1 | 1:755:B:LEU:HD23 | 3 | 0.35 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 13 | 0.35 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 13 | 0.35 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 13 | 0.35 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 13 | 0.35 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 14 | 0.35 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 14 | 0.35 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD1 | 10 | 0.35 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD2 | 10 | 0.35 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB1 | 2 | 0.35 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB2 | 2 | 0.35 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB3 | 2 | 0.35 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB1 | 2 | 0.35 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB2 | 2 | 0.35 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB3 | 2 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB1 | 2 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB2 | 2 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB3 | 2 | 0.35 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB1 | 7 | 0.35 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB2 | 7 | 0.35 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB3 | 7 | 0.35 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB1 | 7 | 0.35 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB2 | 7 | 0.35 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB3 | 7 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB1 | 7 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB2 | 7 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB3 | 7 | 0.35 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB1 | 10 | 0.35 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB2 | 10 | 0.35 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB3 | 10 | 0.35 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB1 | 10 | 0.35 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB2 | 10 | 0.35 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB3 | 10 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB1 | 10 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB2 | 10 | 0.35 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB3 | 10 | 0.35 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 3 | 0.35 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 11 | 0.35 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 3 | 0.35 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 11 | 0.35 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 3 | 0.35 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 11 | 0.35 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 3 | 0.34 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 3 | 0.34 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 3 | 0.34 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 3 | 0.34 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 3 | 0.34 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 3 | 0.34 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 6 | 0.34 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 6 | 0.34 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 6 | 0.34 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 6 | 0.34 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 6 | 0.34 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 6 | 0.34 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 4 | 0.34 |
| (2,1321) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB2 | 13 | 0.34 |
| (2,1321) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB3 | 13 | 0.34 |
| (2,1321) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB2 | 13 | 0.34 |
| (2,1321) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB3 | 13 | 0.34 |
| (2,1321) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB2 | 13 | 0.34 |
| (2,1321) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB3 | 13 | 0.34 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 4 | 0.34 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 4 | 0.34 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 4 | 0.34 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 4 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 4 | 0.34 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 4 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 13 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 13 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 13 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 13 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 13 | 0.34 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 13 | 0.34 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 9 | 0.34 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 9 | 0.34 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 12 | 0.34 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 1 | 0.34 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 1 | 0.34 |
| (2,1205) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 14 | 0.34 |
| (2,1205) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 14 | 0.34 |
| (2,1205) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 14 | 0.34 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 3 | 0.34 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 3 | 0.34 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 3 | 0.34 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 3 | 0.34 |
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 3 | 0.34 |
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 3 | 0.34 |
| (2,1136) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 9 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 3 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 3 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 3 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 3 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 3 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 3 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 6 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 6 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 6 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 6 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 6 | 0.34 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 6 | 0.34 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 4 | 0.34 |
| (2,896) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB2 | 13 | 0.34 |
| (2,896) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB3 | 13 | 0.34 |
| (2,896) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB2 | 13 | 0.34 |
| (2,896) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB3 | 13 | 0.34 |
| (2,896) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB2 | 13 | 0.34 |
| (2,896) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB3 | 13 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 4 | 0.34 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 4 | 0.34 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 4 | 0.34 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 4 | 0.34 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 4 | 0.34 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 4 | 0.34 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 13 | 0.34 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 13 | 0.34 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 13 | 0.34 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 13 | 0.34 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 13 | 0.34 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 13 | 0.34 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 9 | 0.34 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 9 | 0.34 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 12 | 0.34 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 1 | 0.34 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 1 | 0.34 |
| (2,780) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 14 | 0.34 |
| (2,780) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 14 | 0.34 |
| (2,780) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 14 | 0.34 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 3 | 0.34 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 3 | 0.34 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 3 | 0.34 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 3 | 0.34 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 3 | 0.34 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 3 | 0.34 |
| (2,711) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 9 | 0.34 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 5 | 0.34 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 5 | 0.34 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG11 | 8 | 0.34 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG12 | 8 | 0.34 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG13 | 8 | 0.34 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG21 | 8 | 0.34 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG22 | 8 | 0.34 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG23 | 8 | 0.34 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD11 | 1 | 0.34 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD12 | 1 | 0.34 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD13 | 1 | 0.34 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 13 | 0.34 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 3 | 0.34 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 5 | 0.34 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 2 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 11 | 0.34 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 13 | 0.34 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 11 | 0.34 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 11 | 0.34 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 7 | 0.34 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 7 | 0.34 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 7 | 0.34 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB2 | 10 | 0.34 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB3 | 10 | 0.34 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB2 | 10 | 0.34 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB3 | 10 | 0.34 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB2 | 10 | 0.34 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB3 | 10 | 0.34 |
| (2,373) | 1:701:B:VAL:HG21 | 1:698:B:VAL:HA | 4 | 0.34 |
| (2,373) | 1:701:B:VAL:HG22 | 1:698:B:VAL:HA | 4 | 0.34 |
| (2,373) | 1:701:B:VAL:HG23 | 1:698:B:VAL:HA | 4 | 0.34 |
| (2,294) | 1:682:B:ILE:HG21 | 1:685:B:PHE:HB2 | 13 | 0.34 |
| (2,294) | 1:682:B:ILE:HG21 | 1:685:B:PHE:HB3 | 13 | 0.34 |
| (2,294) | 1:682:B:ILE:HG22 | 1:685:B:PHE:HB2 | 13 | 0.34 |
| (2,294) | 1:682:B:ILE:HG22 | 1:685:B:PHE:HB3 | 13 | 0.34 |
| (2,294) | 1:682:B:ILE:HG23 | 1:685:B:PHE:HB2 | 13 | 0.34 |
| (2,294) | 1:682:B:ILE:HG23 | 1:685:B:PHE:HB3 | 13 | 0.34 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 13 | 0.34 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 13 | 0.34 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 13 | 0.34 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 2 | 0.34 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 2 | 0.34 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 5 | 0.34 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 5 | 0.34 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 13 | 0.34 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 13 | 0.34 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 2 | 0.34 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 2 | 0.34 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 2 | 0.34 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 2 | 0.34 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD11 | 4 | 0.34 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD12 | 4 | 0.34 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD13 | 4 | 0.34 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD21 | 4 | 0.34 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD22 | 4 | 0.34 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD23 | 4 | 0.34 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 6 | 0.34 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 6 | 0.34 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 6 | 0.34 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD2 | 10 | 0.34 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD3 | 10 | 0.34 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD2 | 10 | 0.34 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD3 | 10 | 0.34 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD2 | 10 | 0.34 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD3 | 10 | 0.34 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD2 | 10 | 0.34 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD3 | 10 | 0.34 |
| (2,102) | 1:759:A:ASP:H | 1:709:B:ARG:HD2 | 12 | 0.34 |
| (2,102) | 1:759:A:ASP:H | 1:709:B:ARG:HD3 | 12 | 0.34 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 1 | 0.34 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 1 | 0.34 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB2 | 6 | 0.34 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB3 | 6 | 0.34 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB2 | 6 | 0.34 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB3 | 6 | 0.34 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB2 | 6 | 0.34 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB3 | 6 | 0.34 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 13 | 0.34 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 13 | 0.34 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 13 | 0.34 |
| (2,1468) | 1:797:A:TRP:H | 1:796:A:TRP:HD1 | 3 | 0.33 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 10 | 0.33 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 10 | 0.33 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 10 | 0.33 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 8 | 0.33 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 3 | 0.33 |
| (2,1386) | 1:774:A:LEU:H | 1:764:A:SER:HA | 12 | 0.33 |
| (2,1372) | 1:764:A:SER:H | 1:761:A:ARG:HA | 7 | 0.33 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 2 | 0.33 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 2 | 0.33 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 8 | 0.33 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 15 | 0.33 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 7 | 0.33 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 7 | 0.33 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 7 | 0.33 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 7 | 0.33 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 7 | 0.33 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 7 | 0.33 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 5 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 5 | 0.33 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 5 | 0.33 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 6 | 0.33 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 6 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 4 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 4 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 4 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 4 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 4 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 4 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 10 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 10 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 10 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 10 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 10 | 0.33 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 10 | 0.33 |
| (2,1229) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB2 | 6 | 0.33 |
| (2,1229) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB3 | 6 | 0.33 |
| (2,1229) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB2 | 6 | 0.33 |
| (2,1229) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB3 | 6 | 0.33 |
| (2,1229) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB2 | 6 | 0.33 |
| (2,1229) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB3 | 6 | 0.33 |
| (2,1043) | 1:797:A:TRP:H | 1:796:A:TRP:HD1 | 3 | 0.33 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 10 | 0.33 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 10 | 0.33 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 10 | 0.33 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 8 | 0.33 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 3 | 0.33 |
| (2,961) | 1:774:A:LEU:H | 1:764:A:SER:HA | 12 | 0.33 |
| (2,947) | 1:764:A:SER:H | 1:761:A:ARG:HA | 7 | 0.33 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 2 | 0.33 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 2 | 0.33 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 8 | 0.33 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 15 | 0.33 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 7 | 0.33 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 7 | 0.33 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 7 | 0.33 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 7 | 0.33 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 7 | 0.33 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 7 | 0.33 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 5 | 0.33 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 5 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 5 | 0.33 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 6 | 0.33 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 6 | 0.33 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 4 | 0.33 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 4 | 0.33 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 4 | 0.33 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 4 | 0.33 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 4 | 0.33 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 4 | 0.33 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 10 | 0.33 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 10 | 0.33 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 10 | 0.33 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 10 | 0.33 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 10 | 0.33 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 10 | 0.33 |
| (2,804) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB2 | 6 | 0.33 |
| (2,804) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB3 | 6 | 0.33 |
| (2,804) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB2 | 6 | 0.33 |
| (2,804) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB3 | 6 | 0.33 |
| (2,804) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB2 | 6 | 0.33 |
| (2,804) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB3 | 6 | 0.33 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 12 | 0.33 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 12 | 0.33 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD2 | 10 | 0.33 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD3 | 10 | 0.33 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 2 | 0.33 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 10 | 0.33 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 12 | 0.33 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 12 | 0.33 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 12 | 0.33 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 12 | 0.33 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 12 | 0.33 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 12 | 0.33 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 2 | 0.33 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 2 | 0.33 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 2 | 0.33 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 2 | 0.33 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 2 | 0.33 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 2 | 0.33 |
| (2,491) | 1:753:B:LEU:HD11 | 1:757:B:TRP:HB2 | 6 | 0.33 |
| (2,491) | 1:753:B:LEU:HD11 | 1:757:B:TRP:HB3 | 6 | 0.33 |
| (2,491) | 1:753:B:LEU:HD12 | 1:757:B:TRP:HB2 | 6 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,491) | 1:753:B:LEU:HD12 | 1:757:B:TRP:HB3 | 6 | 0.33 |
| (2,491) | 1:753:B:LEU:HD13 | 1:757:B:TRP:HB2 | 6 | 0.33 |
| (2,491) | 1:753:B:LEU:HD13 | 1:757:B:TRP:HB3 | 6 | 0.33 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 9 | 0.33 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 7 | 0.33 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 7 | 0.33 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 13 | 0.33 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 6 | 0.33 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 6 | 0.33 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 6 | 0.33 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 6 | 0.33 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 6 | 0.33 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 6 | 0.33 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD2 | 10 | 0.33 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD3 | 10 | 0.33 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB2 | 11 | 0.33 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB3 | 11 | 0.33 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB2 | 11 | 0.33 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB3 | 11 | 0.33 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB2 | 11 | 0.33 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB3 | 11 | 0.33 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 7 | 0.33 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 7 | 0.33 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 7 | 0.33 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 8 | 0.33 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 8 | 0.33 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 8 | 0.33 |
| (2,355) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HA | 13 | 0.33 |
| (2,355) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HA | 13 | 0.33 |
| (2,355) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HA | 13 | 0.33 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 14 | 0.33 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 14 | 0.33 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 14 | 0.33 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 14 | 0.33 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 14 | 0.33 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 14 | 0.33 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 3 | 0.33 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 3 | 0.33 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 3 | 0.33 |
| (2,210) | 1:839:A:ALA:H | 1:808:A:LYS:HD2 | 15 | 0.33 |
| (2,210) | 1:839:A:ALA:H | 1:808:A:LYS:HD3 | 15 | 0.33 |
| (2,209) | 1:839:A:ALA:H | 1:808:A:LYS:HD2 | 15 | 0.33 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,209) | 1:839:A:ALA:H | 1:808:A:LYS:HD3 | 15 | 0.33 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD11 | 4 | 0.33 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD12 | 4 | 0.33 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD13 | 4 | 0.33 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 11 | 0.33 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 11 | 0.33 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 11 | 0.33 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 11 | 0.33 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 3 | 0.33 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 3 | 0.33 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 14 | 0.33 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 14 | 0.33 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 15 | 0.33 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 15 | 0.33 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 15 | 0.33 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 15 | 0.33 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 6 | 0.33 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 15 | 0.33 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 15 | 0.33 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD1 | 4 | 0.33 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD2 | 4 | 0.33 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 6 | 0.33 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 6 | 0.33 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 6 | 0.33 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 6 | 0.33 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 6 | 0.33 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 6 | 0.33 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG21 | 7 | 0.33 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG22 | 7 | 0.33 |
| (2,32) | 1:687:A:ILE:HG21 | 1:689:A:VAL:HG23 | 7 | 0.33 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG21 | 7 | 0.33 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG22 | 7 | 0.33 |
| (2,32) | 1:687:A:ILE:HG22 | 1:689:A:VAL:HG23 | 7 | 0.33 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG21 | 7 | 0.33 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG22 | 7 | 0.33 |
| (2,32) | 1:687:A:ILE:HG23 | 1:689:A:VAL:HG23 | 7 | 0.33 |
| (2,1476) | 1:817:A:ALA:H | 1:816:A:ASN:HB2 | 1 | 0.32 |
| (2,1476) | 1:817:A:ALA:H | 1:816:A:ASN:HB3 | 1 | 0.32 |
| (2,1473) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD11 | 7 | 0.32 |
| (2,1473) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD12 | 7 | 0.32 |
| (2,1473) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD13 | 7 | 0.32 |
| (2,1473) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD21 | 7 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1473) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD22 | 7 | 0.32 |
| (2,1473) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD23 | 7 | 0.32 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 4 | 0.32 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 13 | 0.32 |
| (2,1377) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH21 | 10 | 0.32 |
| (2,1377) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH22 | 10 | 0.32 |
| (2,1377) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH21 | 10 | 0.32 |
| (2,1377) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH22 | 10 | 0.32 |
| (2,1377) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH21 | 10 | 0.32 |
| (2,1377) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH22 | 10 | 0.32 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 13 | 0.32 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 13 | 0.32 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 13 | 0.32 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 13 | 0.32 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 13 | 0.32 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 13 | 0.32 |
| (2,1368) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 9 | 0.32 |
| (2,1368) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 9 | 0.32 |
| (2,1368) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 9 | 0.32 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 12 | 0.32 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 9 | 0.32 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 9 | 0.32 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 15 | 0.32 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 15 | 0.32 |
| (2,1322) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 15 | 0.32 |
| (2,1322) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 15 | 0.32 |
| (2,1322) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 15 | 0.32 |
| (2,1313) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 9 | 0.32 |
| (2,1253) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD2 | 10 | 0.32 |
| (2,1253) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD3 | 10 | 0.32 |
| (2,1253) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD2 | 10 | 0.32 |
| (2,1253) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD3 | 10 | 0.32 |
| (2,1253) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD2 | 10 | 0.32 |
| (2,1253) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD3 | 10 | 0.32 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 12 | 0.32 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 12 | 0.32 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 12 | 0.32 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 14 | 0.32 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 14 | 0.32 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 14 | 0.32 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 14 | 0.32 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 14 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 14 | 0.32 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 9 | 0.32 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 9 | 0.32 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 9 | 0.32 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 9 | 0.32 |
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 9 | 0.32 |
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 9 | 0.32 |
| (2,1173) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD11 | 7 | 0.32 |
| (2,1173) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD12 | 7 | 0.32 |
| (2,1173) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD13 | 7 | 0.32 |
| (2,1173) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD11 | 7 | 0.32 |
| (2,1173) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD12 | 7 | 0.32 |
| (2,1173) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD13 | 7 | 0.32 |
| (2,1173) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD11 | 7 | 0.32 |
| (2,1173) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD12 | 7 | 0.32 |
| (2,1173) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD13 | 7 | 0.32 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 3 | 0.32 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 3 | 0.32 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 3 | 0.32 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 3 | 0.32 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 3 | 0.32 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 3 | 0.32 |
| (2,1143) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 6 | 0.32 |
| (2,1143) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 6 | 0.32 |
| (2,1143) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 6 | 0.32 |
| (2,1051) | 1:817:A:ALA:H | 1:816:A:ASN:HB2 | 1 | 0.32 |
| (2,1051) | 1:817:A:ALA:H | 1:816:A:ASN:HB3 | 1 | 0.32 |
| (2,1048) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD11 | 7 | 0.32 |
| (2,1048) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD12 | 7 | 0.32 |
| (2,1048) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD13 | 7 | 0.32 |
| (2,1048) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD21 | 7 | 0.32 |
| (2,1048) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD22 | 7 | 0.32 |
| (2,1048) | 1:803:A:TRP:HE1 | 1:799:A:LEU:HD23 | 7 | 0.32 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 4 | 0.32 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 13 | 0.32 |
| (2,952) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH21 | 10 | 0.32 |
| (2,952) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH22 | 10 | 0.32 |
| (2,952) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH21 | 10 | 0.32 |
| (2,952) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH22 | 10 | 0.32 |
| (2,952) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH21 | 10 | 0.32 |
| (2,952) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH22 | 10 | 0.32 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 13 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 13 | 0.32 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 13 | 0.32 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 13 | 0.32 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 13 | 0.32 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 13 | 0.32 |
| (2,943) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 9 | 0.32 |
| (2,943) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 9 | 0.32 |
| (2,943) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 9 | 0.32 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 12 | 0.32 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 9 | 0.32 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 9 | 0.32 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 15 | 0.32 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 15 | 0.32 |
| (2,897) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 15 | 0.32 |
| (2,897) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 15 | 0.32 |
| (2,897) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 15 | 0.32 |
| (2,888) | 1:746:A:ILE:H | 1:742:A:ARG:HA | 9 | 0.32 |
| (2,828) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD2 | 10 | 0.32 |
| (2,828) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD3 | 10 | 0.32 |
| (2,828) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD2 | 10 | 0.32 |
| (2,828) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD3 | 10 | 0.32 |
| (2,828) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD2 | 10 | 0.32 |
| (2,828) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD3 | 10 | 0.32 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 12 | 0.32 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 12 | 0.32 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 12 | 0.32 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 14 | 0.32 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 14 | 0.32 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 14 | 0.32 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 14 | 0.32 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 14 | 0.32 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 14 | 0.32 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 9 | 0.32 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 9 | 0.32 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 9 | 0.32 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 9 | 0.32 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 9 | 0.32 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 9 | 0.32 |
| (2,748) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD11 | 7 | 0.32 |
| (2,748) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD12 | 7 | 0.32 |
| (2,748) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD13 | 7 | 0.32 |
| (2,748) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD11 | 7 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,748) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD12 | 7 | 0.32 |
| (2,748) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD13 | 7 | 0.32 |
| (2,748) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD11 | 7 | 0.32 |
| (2,748) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD12 | 7 | 0.32 |
| (2,748) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD13 | 7 | 0.32 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 3 | 0.32 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 3 | 0.32 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 3 | 0.32 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 3 | 0.32 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 3 | 0.32 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 3 | 0.32 |
| (2,718) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 6 | 0.32 |
| (2,718) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 6 | 0.32 |
| (2,718) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 6 | 0.32 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD11 | 13 | 0.32 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD12 | 13 | 0.32 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD13 | 13 | 0.32 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD21 | 13 | 0.32 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD22 | 13 | 0.32 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD23 | 13 | 0.32 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 2 | 0.32 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 2 | 0.32 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 2 | 0.32 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD11 | 10 | 0.32 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD12 | 10 | 0.32 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD13 | 10 | 0.32 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD21 | 10 | 0.32 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD22 | 10 | 0.32 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD23 | 10 | 0.32 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 9 | 0.32 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 10 | 0.32 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 12 | 0.32 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 12 | 0.32 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 12 | 0.32 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 12 | 0.32 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 12 | 0.32 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 12 | 0.32 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD2 | 2 | 0.32 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD3 | 2 | 0.32 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD2 | 2 | 0.32 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD3 | 2 | 0.32 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD2 | 2 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD3 | 2 | 0.32 |
| (2,355) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HA | 7 | 0.32 |
| (2,355) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HA | 7 | 0.32 |
| (2,355) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HA | 7 | 0.32 |
| (2,352) | 1:697:B:ILE:HG21 | 1:694:B:GLY:HA2 | 4 | 0.32 |
| (2,352) | 1:697:B:ILE:HG21 | 1:694:B:GLY:HA3 | 4 | 0.32 |
| (2,352) | 1:697:B:ILE:HG22 | 1:694:B:GLY:HA2 | 4 | 0.32 |
| (2,352) | 1:697:B:ILE:HG22 | 1:694:B:GLY:HA3 | 4 | 0.32 |
| (2,352) | 1:697:B:ILE:HG23 | 1:694:B:GLY:HA2 | 4 | 0.32 |
| (2,352) | 1:697:B:ILE:HG23 | 1:694:B:GLY:HA3 | 4 | 0.32 |
| (2,327) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HE1 | 13 | 0.32 |
| (2,327) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HE2 | 13 | 0.32 |
| (2,327) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HE1 | 13 | 0.32 |
| (2,327) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HE2 | 13 | 0.32 |
| (2,327) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HE1 | 13 | 0.32 |
| (2,327) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HE2 | 13 | 0.32 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 15 | 0.32 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 15 | 0.32 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 15 | 0.32 |
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB1 | 9 | 0.32 |
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB2 | 9 | 0.32 |
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB3 | 9 | 0.32 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB1 | 9 | 0.32 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB2 | 9 | 0.32 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB3 | 9 | 0.32 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB1 | 9 | 0.32 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB2 | 9 | 0.32 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB3 | 9 | 0.32 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG12 | 15 | 0.32 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG13 | 15 | 0.32 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 2 | 0.32 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 2 | 0.32 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 2 | 0.32 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 2 | 0.32 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 2 | 0.32 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 2 | 0.32 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 4 | 0.32 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 4 | 0.32 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 11 | 0.32 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 11 | 0.32 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 9 | 0.32 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 1 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 1 | 0.32 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 1 | 0.32 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 1 | 0.32 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG12 | 15 | 0.32 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG13 | 15 | 0.32 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD1 | 8 | 0.32 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD2 | 8 | 0.32 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 8 | 0.32 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 8 | 0.32 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 8 | 0.32 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 8 | 0.32 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 8 | 0.32 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 8 | 0.32 |
| (2,117) | 1:781:A:ILE:HD11 | 1:746:B:ILE:HG12 | 2 | 0.32 |
| (2,117) | 1:781:A:ILE:HD11 | 1:746:B:ILE:HG13 | 2 | 0.32 |
| (2,117) | 1:781:A:ILE:HD12 | 1:746:B:ILE:HG12 | 2 | 0.32 |
| (2,117) | 1:781:A:ILE:HD12 | 1:746:B:ILE:HG13 | 2 | 0.32 |
| (2,117) | 1:781:A:ILE:HD13 | 1:746:B:ILE:HG12 | 2 | 0.32 |
| (2,117) | 1:781:A:ILE:HD13 | 1:746:B:ILE:HG13 | 2 | 0.32 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 6 | 0.32 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 6 | 0.32 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB2 | 1 | 0.32 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB3 | 1 | 0.32 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB2 | 1 | 0.32 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB3 | 1 | 0.32 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB2 | 1 | 0.32 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB3 | 1 | 0.32 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB2 | 13 | 0.32 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB3 | 13 | 0.32 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB2 | 13 | 0.32 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB3 | 13 | 0.32 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB2 | 13 | 0.32 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB3 | 13 | 0.32 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB2 | 14 | 0.32 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB3 | 14 | 0.32 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB2 | 14 | 0.32 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB3 | 14 | 0.32 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB2 | 14 | 0.32 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB3 | 14 | 0.32 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 11 | 0.32 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 1 | 0.32 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 15 | 0.32 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 11 | 0.32 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 1 | 0.32 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 15 | 0.32 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 11 | 0.32 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 1 | 0.32 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 15 | 0.32 |
| (2,1470) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 3 | 0.31 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 6 | 0.31 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 13 | 0.31 |
| (2,1395) | 1:775:A:LEU:HD11 | 1:772:A:ARG:HA | 6 | 0.31 |
| (2,1395) | 1:775:A:LEU:HD12 | 1:772:A:ARG:HA | 6 | 0.31 |
| (2,1395) | 1:775:A:LEU:HD13 | 1:772:A:ARG:HA | 6 | 0.31 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 2 | 0.31 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 5 | 0.31 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 5 | 0.31 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 5 | 0.31 |
| (2,1368) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 5 | 0.31 |
| (2,1368) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 5 | 0.31 |
| (2,1368) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 5 | 0.31 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 13 | 0.31 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 13 | 0.31 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 13 | 0.31 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 13 | 0.31 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 13 | 0.31 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 13 | 0.31 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 12 | 0.31 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 12 | 0.31 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 3 | 0.31 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 3 | 0.31 |
| (2,1270) | 1:707:A:ARG:H | 1:707:A:ARG:HG2 | 14 | 0.31 |
| (2,1270) | 1:707:A:ARG:H | 1:707:A:ARG:HG3 | 14 | 0.31 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 4 | 0.31 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 11 | 0.31 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 11 | 0.31 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 11 | 0.31 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 11 | 0.31 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 11 | 0.31 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 11 | 0.31 |
| (2,1240) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 11 | 0.31 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH11 | 9 | 0.31 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH12 | 9 | 0.31 |
| (2,1180) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HA | 8 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1180) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HA | 8 | 0.31 |
| (2,1180) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HA | 8 | 0.31 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 7 | 0.31 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 7 | 0.31 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 7 | 0.31 |
| (2,1045) | 1:802:A:TYR:H | 1:802:A:TYR:HB3 | 3 | 0.31 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 6 | 0.31 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 13 | 0.31 |
| (2,970) | 1:775:A:LEU:HD11 | 1:772:A:ARG:HA | 6 | 0.31 |
| (2,970) | 1:775:A:LEU:HD12 | 1:772:A:ARG:HA | 6 | 0.31 |
| (2,970) | 1:775:A:LEU:HD13 | 1:772:A:ARG:HA | 6 | 0.31 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 2 | 0.31 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 5 | 0.31 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 5 | 0.31 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 5 | 0.31 |
| (2,943) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 5 | 0.31 |
| (2,943) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 5 | 0.31 |
| (2,943) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 5 | 0.31 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 13 | 0.31 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 13 | 0.31 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 13 | 0.31 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 13 | 0.31 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 13 | 0.31 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 13 | 0.31 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 12 | 0.31 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 12 | 0.31 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 3 | 0.31 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 3 | 0.31 |
| (2,845) | 1:707:A:ARG:H | 1:707:A:ARG:HG2 | 14 | 0.31 |
| (2,845) | 1:707:A:ARG:H | 1:707:A:ARG:HG3 | 14 | 0.31 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 4 | 0.31 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 11 | 0.31 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 11 | 0.31 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 11 | 0.31 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 11 | 0.31 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 11 | 0.31 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 11 | 0.31 |
| (2,815) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 11 | 0.31 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH11 | 9 | 0.31 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH12 | 9 | 0.31 |
| (2,755) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HA | 8 | 0.31 |
| (2,755) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HA | 8 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,755) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HA | 8 | 0.31 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 7 | 0.31 |
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 7 | 0.31 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 7 | 0.31 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 3 | 0.31 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 5 | 0.31 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 9 | 0.31 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 9 | 0.31 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 9 | 0.31 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 9 | 0.31 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 9 | 0.31 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 9 | 0.31 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 12 | 0.31 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 12 | 0.31 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 6 | 0.31 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 5 | 0.31 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 13 | 0.31 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 13 | 0.31 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 13 | 0.31 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 14 | 0.31 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 14 | 0.31 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 14 | 0.31 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 12 | 0.31 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 12 | 0.31 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 12 | 0.31 |
| (2,390) | 1:704:B:LEU:H | 1:704:B:LEU:HB3 | 6 | 0.31 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 6 | 0.31 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 6 | 0.31 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 6 | 0.31 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 2 | 0.31 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 8 | 0.31 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 8 | 0.31 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 2 | 0.31 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 2 | 0.31 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 8 | 0.31 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 8 | 0.31 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 15 | 0.31 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 15 | 0.31 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 1 | 0.31 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 1 | 0.31 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 7 | 0.31 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 7 | 0.31 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 7 | 0.31 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 7 | 0.31 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 11 | 0.31 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 11 | 0.31 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 11 | 0.31 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 11 | 0.31 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 11 | 0.31 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 11 | 0.31 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD11 | 5 | 0.31 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD12 | 5 | 0.31 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD13 | 5 | 0.31 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 13 | 0.31 |
| (1,173) | 1:790:B:TRP:O | 1:794:B:LYS:H | 5 | 0.31 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 13 | 0.31 |
| (1,87) | 1:790:B:TRP:O | 1:794:B:LYS:H | 5 | 0.31 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 13 | 0.31 |
| (1,1) | 1:790:B:TRP:O | 1:794:B:LYS:H | 5 | 0.31 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 4 | 0.3 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 4 | 0.3 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 4 | 0.3 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 4 | 0.3 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 4 | 0.3 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 4 | 0.3 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 6 | 0.3 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 6 | 0.3 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 6 | 0.3 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 6 | 0.3 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 6 | 0.3 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 6 | 0.3 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 10 | 0.3 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 8 | 0.3 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 8 | 0.3 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 8 | 0.3 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 8 | 0.3 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 8 | 0.3 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 8 | 0.3 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 2 | 0.3 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 2 | 0.3 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 7 | 0.3 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 11 | 0.3 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 11 | 0.3 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 7 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 1 | 0.3 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 1 | 0.3 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 1 | 0.3 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 1 | 0.3 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 1 | 0.3 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 1 | 0.3 |
| (2,1251) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 5 | 0.3 |
| (2,1251) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 5 | 0.3 |
| (2,1251) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 5 | 0.3 |
| (2,1222) | 1:701:A:VAL:HG11 | 1:698:A:VAL:HA | 15 | 0.3 |
| (2,1222) | 1:701:A:VAL:HG12 | 1:698:A:VAL:HA | 15 | 0.3 |
| (2,1222) | 1:701:A:VAL:HG13 | 1:698:A:VAL:HA | 15 | 0.3 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 3 | 0.3 |
| (2,1182) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB2 | 10 | 0.3 |
| (2,1182) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB3 | 10 | 0.3 |
| (2,1182) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB2 | 10 | 0.3 |
| (2,1182) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB3 | 10 | 0.3 |
| (2,1182) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB2 | 10 | 0.3 |
| (2,1182) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB3 | 10 | 0.3 |
| (2,1144) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB2 | 9 | 0.3 |
| (2,1144) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB3 | 9 | 0.3 |
| (2,1144) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB2 | 9 | 0.3 |
| (2,1144) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB3 | 9 | 0.3 |
| (2,1144) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB2 | 9 | 0.3 |
| (2,1144) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB3 | 9 | 0.3 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 9 | 0.3 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 9 | 0.3 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 9 | 0.3 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 4 | 0.3 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 4 | 0.3 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 4 | 0.3 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 4 | 0.3 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 4 | 0.3 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 4 | 0.3 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 6 | 0.3 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 6 | 0.3 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 6 | 0.3 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 6 | 0.3 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 6 | 0.3 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 6 | 0.3 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 10 | 0.3 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 8 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 8 | 0.3 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 8 | 0.3 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 8 | 0.3 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 8 | 0.3 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 8 | 0.3 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 2 | 0.3 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 2 | 0.3 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 7 | 0.3 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 11 | 0.3 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 11 | 0.3 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 7 | 0.3 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 1 | 0.3 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 1 | 0.3 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 1 | 0.3 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 1 | 0.3 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 1 | 0.3 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 1 | 0.3 |
| (2,826) | 1:705:A:VAL:HG11 | 1:702:A:LEU:HA | 5 | 0.3 |
| (2,826) | 1:705:A:VAL:HG12 | 1:702:A:LEU:HA | 5 | 0.3 |
| (2,826) | 1:705:A:VAL:HG13 | 1:702:A:LEU:HA | 5 | 0.3 |
| (2,797) | 1:701:A:VAL:HG11 | 1:698:A:VAL:HA | 15 | 0.3 |
| (2,797) | 1:701:A:VAL:HG12 | 1:698:A:VAL:HA | 15 | 0.3 |
| (2,797) | 1:701:A:VAL:HG13 | 1:698:A:VAL:HA | 15 | 0.3 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 3 | 0.3 |
| (2,757) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB2 | 10 | 0.3 |
| (2,757) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB3 | 10 | 0.3 |
| (2,757) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB2 | 10 | 0.3 |
| (2,757) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB3 | 10 | 0.3 |
| (2,757) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB2 | 10 | 0.3 |
| (2,757) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB3 | 10 | 0.3 |
| (2,719) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB2 | 9 | 0.3 |
| (2,719) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB3 | 9 | 0.3 |
| (2,719) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB2 | 9 | 0.3 |
| (2,719) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB3 | 9 | 0.3 |
| (2,719) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB2 | 9 | 0.3 |
| (2,719) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB3 | 9 | 0.3 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 9 | 0.3 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 9 | 0.3 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 9 | 0.3 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD11 | 9 | 0.3 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD12 | 9 | 0.3 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD13 | 9 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD21 | 9 | 0.3 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD22 | 9 | 0.3 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD23 | 9 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD11 | 7 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD12 | 7 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD13 | 7 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD21 | 7 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD22 | 7 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD23 | 7 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD11 | 8 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD12 | 8 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD13 | 8 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD21 | 8 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD22 | 8 | 0.3 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD23 | 8 | 0.3 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD2 | 12 | 0.3 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD3 | 12 | 0.3 |
| (2,586) | 1:782:B:VAL:HG21 | 1:779:B:THR:HA | 6 | 0.3 |
| (2,586) | 1:782:B:VAL:HG22 | 1:779:B:THR:HA | 6 | 0.3 |
| (2,586) | 1:782:B:VAL:HG23 | 1:779:B:THR:HA | 6 | 0.3 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 6 | 0.3 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 9 | 0.3 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 1 | 0.3 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 1 | 0.3 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 1 | 0.3 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 1 | 0.3 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 1 | 0.3 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 1 | 0.3 |
| (2,473) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD22 | 3 | 0.3 |
| (2,473) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD22 | 3 | 0.3 |
| (2,473) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD22 | 3 | 0.3 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 8 | 0.3 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 8 | 0.3 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 8 | 0.3 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 9 | 0.3 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 12 | 0.3 |
| (2,438) | 1:709:B:ARG:HE | 1:709:B:ARG:H | 11 | 0.3 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB2 | 7 | 0.3 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB3 | 7 | 0.3 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB2 | 7 | 0.3 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB3 | 7 | 0.3 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB2 | 7 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB3 | 7 | 0.3 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 10 | 0.3 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 12 | 0.3 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 4 | 0.3 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 4 | 0.3 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 4 | 0.3 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 4 | 0.3 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 4 | 0.3 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 4 | 0.3 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 11 | 0.3 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 11 | 0.3 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 11 | 0.3 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 11 | 0.3 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 11 | 0.3 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 11 | 0.3 |
| (2,296) | 1:682:B:ILE:HD11 | 1:681:B:TYR:H | 14 | 0.3 |
| (2,296) | 1:682:B:ILE:HD12 | 1:681:B:TYR:H | 14 | 0.3 |
| (2,296) | 1:682:B:ILE:HD13 | 1:681:B:TYR:H | 14 | 0.3 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 14 | 0.3 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 14 | 0.3 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 14 | 0.3 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 4 | 0.3 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 4 | 0.3 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 3 | 0.3 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 3 | 0.3 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 4 | 0.3 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 5 | 0.3 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 5 | 0.3 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 8 | 0.3 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 8 | 0.3 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 5 | 0.3 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 5 | 0.3 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 8 | 0.3 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 8 | 0.3 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 12 | 0.3 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 12 | 0.3 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG12 | 1 | 0.3 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG13 | 1 | 0.3 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG21 | 1 | 0.3 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG22 | 1 | 0.3 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG23 | 1 | 0.3 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG21 | 7 | 0.3 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG22 | 7 | 0.3 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG23 | 7 | 0.3 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB2 | 4 | 0.3 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB3 | 4 | 0.3 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB2 | 4 | 0.3 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB3 | 4 | 0.3 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB2 | 4 | 0.3 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB3 | 4 | 0.3 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD1 | 14 | 0.3 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD2 | 14 | 0.3 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD1 | 14 | 0.3 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD2 | 14 | 0.3 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD1 | 14 | 0.3 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD2 | 14 | 0.3 |
| (1,177) | 1:792:B:ALA:O | 1:796:B:TRP:H | 11 | 0.3 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 6 | 0.3 |
| (1,91) | 1:792:B:ALA:O | 1:796:B:TRP:H | 11 | 0.3 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 6 | 0.3 |
| (1,5) | 1:792:B:ALA:O | 1:796:B:TRP:H | 11 | 0.3 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 6 | 0.3 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 4 | 0.29 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 4 | 0.29 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 12 | 0.29 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 12 | 0.29 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 12 | 0.29 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 14 | 0.29 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 14 | 0.29 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 5 | 0.29 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 5 | 0.29 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 5 | 0.29 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 5 | 0.29 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 5 | 0.29 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 5 | 0.29 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 3 | 0.29 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 3 | 0.29 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 8 | 0.29 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 14 | 0.29 |
| (2,1322) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 14 | 0.29 |
| (2,1322) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 14 | 0.29 |
| (2,1322) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 14 | 0.29 |
| (2,1240) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 9 | 0.29 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH21 | 6 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH22 | 6 | 0.29 |
| (2,1122) | 1:674:A:ASP:H | 1:677:A:ASN:H | 1 | 0.29 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 7 | 0.29 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 7 | 0.29 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 7 | 0.29 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 7 | 0.29 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 7 | 0.29 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 7 | 0.29 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 4 | 0.29 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 4 | 0.29 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 12 | 0.29 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 12 | 0.29 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 12 | 0.29 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 14 | 0.29 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 14 | 0.29 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 5 | 0.29 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 5 | 0.29 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 5 | 0.29 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 5 | 0.29 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 5 | 0.29 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 5 | 0.29 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 3 | 0.29 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 3 | 0.29 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 8 | 0.29 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 14 | 0.29 |
| (2,897) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 14 | 0.29 |
| (2,897) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 14 | 0.29 |
| (2,897) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 14 | 0.29 |
| (2,815) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 9 | 0.29 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH21 | 6 | 0.29 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH22 | 6 | 0.29 |
| (2,697) | 1:674:A:ASP:H | 1:677:A:ASN:H | 1 | 0.29 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 7 | 0.29 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 7 | 0.29 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 7 | 0.29 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 7 | 0.29 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 7 | 0.29 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 7 | 0.29 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG11 | 10 | 0.29 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG12 | 10 | 0.29 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG13 | 10 | 0.29 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG21 | 10 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG22 | 10 | 0.29 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG23 | 10 | 0.29 |
| (2,586) | 1:782:B:VAL:HG21 | 1:779:B:THR:HA | 13 | 0.29 |
| (2,586) | 1:782:B:VAL:HG22 | 1:779:B:THR:HA | 13 | 0.29 |
| (2,586) | 1:782:B:VAL:HG23 | 1:779:B:THR:HA | 13 | 0.29 |
| (2,575) | 1:781:B:ILE:H | 1:778:B:VAL:HA | 5 | 0.29 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD2 | 12 | 0.29 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD3 | 12 | 0.29 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD2 | 12 | 0.29 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD3 | 12 | 0.29 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD2 | 12 | 0.29 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD3 | 12 | 0.29 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD2 | 14 | 0.29 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD3 | 14 | 0.29 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 2 | 0.29 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 2 | 0.29 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 9 | 0.29 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 9 | 0.29 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB2 | 5 | 0.29 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB3 | 5 | 0.29 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB2 | 5 | 0.29 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB3 | 5 | 0.29 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB2 | 5 | 0.29 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB3 | 5 | 0.29 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 2 | 0.29 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 2 | 0.29 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 2 | 0.29 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 3 | 0.29 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 3 | 0.29 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 14 | 0.29 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 14 | 0.29 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 9 | 0.29 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 9 | 0.29 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 6 | 0.29 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 6 | 0.29 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 6 | 0.29 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 6 | 0.29 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 14 | 0.29 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 14 | 0.29 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 14 | 0.29 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 14 | 0.29 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 14 | 0.29 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 14 | 0.29 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG21 | 3 | 0.29 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG22 | 3 | 0.29 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG23 | 3 | 0.29 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB1 | 14 | 0.29 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB2 | 14 | 0.29 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB3 | 14 | 0.29 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB1 | 14 | 0.29 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB2 | 14 | 0.29 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB3 | 14 | 0.29 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB1 | 14 | 0.29 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB2 | 14 | 0.29 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB3 | 14 | 0.29 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 13 | 0.28 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 13 | 0.28 |
| (2,1476) | 1:817:A:ALA:H | 1:816:A:ASN:HB2 | 2 | 0.28 |
| (2,1476) | 1:817:A:ALA:H | 1:816:A:ASN:HB3 | 2 | 0.28 |
| (2,1465) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 13 | 0.28 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 1 | 0.28 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 5 | 0.28 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 9 | 0.28 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 8 | 0.28 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 9 | 0.28 |
| (2,1377) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH21 | 8 | 0.28 |
| (2,1377) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH22 | 8 | 0.28 |
| (2,1377) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH21 | 8 | 0.28 |
| (2,1377) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH22 | 8 | 0.28 |
| (2,1377) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH21 | 8 | 0.28 |
| (2,1377) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH22 | 8 | 0.28 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 4 | 0.28 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 4 | 0.28 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 4 | 0.28 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 4 | 0.28 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 4 | 0.28 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 4 | 0.28 |
| (2,1366) | 1:760:A:LEU:HD21 | 1:768:A:TYR:HE1 | 11 | 0.28 |
| (2,1366) | 1:760:A:LEU:HD21 | 1:768:A:TYR:HE2 | 11 | 0.28 |
| (2,1366) | 1:760:A:LEU:HD22 | 1:768:A:TYR:HE1 | 11 | 0.28 |
| (2,1366) | 1:760:A:LEU:HD22 | 1:768:A:TYR:HE2 | 11 | 0.28 |
| (2,1366) | 1:760:A:LEU:HD23 | 1:768:A:TYR:HE1 | 11 | 0.28 |
| (2,1366) | 1:760:A:LEU:HD23 | 1:768:A:TYR:HE2 | 11 | 0.28 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 5 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 5 | 0.28 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 5 | 0.28 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 5 | 0.28 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 5 | 0.28 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 5 | 0.28 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 9 | 0.28 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 9 | 0.28 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 9 | 0.28 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 9 | 0.28 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 9 | 0.28 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 9 | 0.28 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 14 | 0.28 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 14 | 0.28 |
| (2,1206) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 3 | 0.28 |
| (2,1206) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 3 | 0.28 |
| (2,1206) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 3 | 0.28 |
| (2,1176) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,1176) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,1176) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,1176) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,1176) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,1176) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,1169) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,1169) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,1169) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,1169) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,1169) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,1169) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,1145) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,1145) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,1145) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 4 | 0.28 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 4 | 0.28 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 4 | 0.28 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 13 | 0.28 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 13 | 0.28 |
| (2,1051) | 1:817:A:ALA:H | 1:816:A:ASN:HB2 | 2 | 0.28 |
| (2,1051) | 1:817:A:ALA:H | 1:816:A:ASN:HB3 | 2 | 0.28 |
| (2,1040) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 13 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 1 | 0.28 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 5 | 0.28 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 9 | 0.28 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 8 | 0.28 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 9 | 0.28 |
| (2,952) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH21 | 8 | 0.28 |
| (2,952) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH22 | 8 | 0.28 |
| (2,952) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH21 | 8 | 0.28 |
| (2,952) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH22 | 8 | 0.28 |
| (2,952) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH21 | 8 | 0.28 |
| (2,952) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH22 | 8 | 0.28 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 4 | 0.28 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 4 | 0.28 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 4 | 0.28 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 4 | 0.28 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 4 | 0.28 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 4 | 0.28 |
| (2,941) | 1:760:A:LEU:HD21 | 1:768:A:TYR:HE1 | 11 | 0.28 |
| (2,941) | 1:760:A:LEU:HD21 | 1:768:A:TYR:HE2 | 11 | 0.28 |
| (2,941) | 1:760:A:LEU:HD22 | 1:768:A:TYR:HE1 | 11 | 0.28 |
| (2,941) | 1:760:A:LEU:HD22 | 1:768:A:TYR:HE2 | 11 | 0.28 |
| (2,941) | 1:760:A:LEU:HD23 | 1:768:A:TYR:HE1 | 11 | 0.28 |
| (2,941) | 1:760:A:LEU:HD23 | 1:768:A:TYR:HE2 | 11 | 0.28 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 5 | 0.28 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 5 | 0.28 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 5 | 0.28 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 5 | 0.28 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 5 | 0.28 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 5 | 0.28 |
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 9 | 0.28 |
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 9 | 0.28 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 9 | 0.28 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 9 | 0.28 |
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 9 | 0.28 |
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 9 | 0.28 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 14 | 0.28 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 14 | 0.28 |
| (2,781) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 3 | 0.28 |
| (2,781) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 3 | 0.28 |
| (2,781) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 3 | 0.28 |
| (2,751) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,751) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD2 | 9 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,751) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,751) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,751) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,751) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,744) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,744) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,744) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,744) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,744) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,744) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,720) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,720) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD1 | 9 | 0.28 |
| (2,720) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HD2 | 9 | 0.28 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 4 | 0.28 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 4 | 0.28 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 4 | 0.28 |
| (2,630) | 1:835:B:GLY:H | 1:834:B:GLN:HE21 | 7 | 0.28 |
| (2,630) | 1:835:B:GLY:H | 1:834:B:GLN:HE22 | 7 | 0.28 |
| (2,629) | 1:835:B:GLY:H | 1:834:B:GLN:HG2 | 6 | 0.28 |
| (2,629) | 1:835:B:GLY:H | 1:834:B:GLN:HG3 | 6 | 0.28 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD11 | 6 | 0.28 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD12 | 6 | 0.28 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD13 | 6 | 0.28 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD11 | 11 | 0.28 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD12 | 11 | 0.28 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD13 | 11 | 0.28 |
| (2,575) | 1:781:B:ILE:H | 1:778:B:VAL:HA | 1 | 0.28 |
| (2,575) | 1:781:B:ILE:H | 1:778:B:VAL:HA | 14 | 0.28 |
| (2,522) | 1:764:B:SER:H | 1:761:B:ARG:HA | 7 | 0.28 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 10 | 0.28 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 1 | 0.28 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 1 | 0.28 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 2 | 0.28 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 2 | 0.28 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 14 | 0.28 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 14 | 0.28 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 15 | 0.28 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 15 | 0.28 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 7 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 7 | 0.28 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 7 | 0.28 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 7 | 0.28 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 7 | 0.28 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 7 | 0.28 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB2 | 12 | 0.28 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB3 | 12 | 0.28 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB2 | 12 | 0.28 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB3 | 12 | 0.28 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB2 | 12 | 0.28 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB3 | 12 | 0.28 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 6 | 0.28 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 6 | 0.28 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 6 | 0.28 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 14 | 0.28 |
| (2,333) | 1:692:B:LEU:HD13 | 1:696:B:ARG:HH11 | 6 | 0.28 |
| (2,333) | 1:692:B:LEU:HD13 | 1:696:B:ARG:HH12 | 6 | 0.28 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 9 | 0.28 |
| (2,241) | 1:666:B:TRP:HE1 | 1:662:B:GLU:H | 10 | 0.28 |
| (2,225) | 1:664:B:ASP:H | 1:663:B:LEU:H | 13 | 0.28 |
| (2,219) | 1:663:B:LEU:H | 1:664:B:ASP:H | 13 | 0.28 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 12 | 0.28 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 12 | 0.28 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 12 | 0.28 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 12 | 0.28 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 12 | 0.28 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 9 | 0.28 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 9 | 0.28 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 11 | 0.28 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 10 | 0.28 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 10 | 0.28 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 10 | 0.28 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 10 | 0.28 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 7 | 0.28 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 7 | 0.28 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 7 | 0.28 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 7 | 0.28 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD21 | 10 | 0.28 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD22 | 10 | 0.28 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD23 | 10 | 0.28 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 11 | 0.28 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 11 | 0.28 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 10 | 0.28 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 10 | 0.28 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 10 | 0.28 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 10 | 0.28 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 10 | 0.28 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 10 | 0.28 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 12 | 0.28 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 12 | 0.28 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 12 | 0.28 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 12 | 0.28 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 12 | 0.28 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 12 | 0.28 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB2 | 12 | 0.28 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB3 | 12 | 0.28 |
| (1,191) | 1:799:B:LEU:O | 1:803:B:TRP:H | 9 | 0.28 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 5 | 0.28 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 8 | 0.28 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 12 | 0.28 |
| (1,105) | 1:799:B:LEU:O | 1:803:B:TRP:H | 9 | 0.28 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 5 | 0.28 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 8 | 0.28 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 12 | 0.28 |
| (1,19) | 1:799:B:LEU:O | 1:803:B:TRP:H | 9 | 0.28 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 5 | 0.28 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 8 | 0.28 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 12 | 0.28 |
| (2,1465) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 4 | 0.27 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 10 | 0.27 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 10 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 14 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 14 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 14 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 14 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 14 | 0.27 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 14 | 0.27 |
| (2,1365) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 6 | 0.27 |
| (2,1365) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 6 | 0.27 |
| (2,1365) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 6 | 0.27 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 1 | 0.27 |
| (2,1322) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 11 | 0.27 |
| (2,1322) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 11 | 0.27 |
| (2,1322) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 11 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,1307) | 1:740:A:ARG:H | 1:739:A:GLU:HA | 3 | 0.27 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 4 | 0.27 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 6 | 0.27 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 10 | 0.27 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 10 | 0.27 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 4 | 0.27 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 4 | 0.27 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 6 | 0.27 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 6 | 0.27 |
| (2,1240) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 10 | 0.27 |
| (2,1222) | 1:701:A:VAL:HG11 | 1:698:A:VAL:HA | 8 | 0.27 |
| (2,1222) | 1:701:A:VAL:HG12 | 1:698:A:VAL:HA | 8 | 0.27 |
| (2,1222) | 1:701:A:VAL:HG13 | 1:698:A:VAL:HA | 8 | 0.27 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 14 | 0.27 |
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 11 | 0.27 |
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 11 | 0.27 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 11 | 0.27 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 11 | 0.27 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 11 | 0.27 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 11 | 0.27 |
| (2,1040) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 4 | 0.27 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 10 | 0.27 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 10 | 0.27 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 14 | 0.27 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 14 | 0.27 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 14 | 0.27 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 14 | 0.27 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 14 | 0.27 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 14 | 0.27 |
| (2,940) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 6 | 0.27 |
| (2,940) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 6 | 0.27 |
| (2,940) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 6 | 0.27 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 1 | 0.27 |
| (2,897) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 11 | 0.27 |
| (2,897) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 11 | 0.27 |
| (2,897) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 11 | 0.27 |
| (2,882) | 1:740:A:ARG:H | 1:739:A:GLU:HA | 3 | 0.27 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 4 | 0.27 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 6 | 0.27 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 10 | 0.27 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 10 | 0.27 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 4 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 4 | 0.27 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 6 | 0.27 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 6 | 0.27 |
| (2,815) | 1:704:A:LEU:H | 1:704:A:LEU:HB3 | 10 | 0.27 |
| (2,797) | 1:701:A:VAL:HG11 | 1:698:A:VAL:HA | 8 | 0.27 |
| (2,797) | 1:701:A:VAL:HG12 | 1:698:A:VAL:HA | 8 | 0.27 |
| (2,797) | 1:701:A:VAL:HG13 | 1:698:A:VAL:HA | 8 | 0.27 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 14 | 0.27 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 11 | 0.27 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 11 | 0.27 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 11 | 0.27 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 11 | 0.27 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 11 | 0.27 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 11 | 0.27 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG11 | 1 | 0.27 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG12 | 1 | 0.27 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG13 | 1 | 0.27 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG21 | 1 | 0.27 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG22 | 1 | 0.27 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG23 | 1 | 0.27 |
| (2,608) | 1:786:B:GLY:H | 1:782:B:VAL:HA | 1 | 0.27 |
| (2,580) | 1:781:B:ILE:HG21 | 1:778:B:VAL:HA | 7 | 0.27 |
| (2,580) | 1:781:B:ILE:HG22 | 1:778:B:VAL:HA | 7 | 0.27 |
| (2,580) | 1:781:B:ILE:HG23 | 1:778:B:VAL:HA | 7 | 0.27 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 6 | 0.27 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD2 | 2 | 0.27 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD3 | 2 | 0.27 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD2 | 2 | 0.27 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD3 | 2 | 0.27 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD2 | 2 | 0.27 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD3 | 2 | 0.27 |
| (2,479) | 1:748:B:LEU:H | 1:745:B:SER:HA | 6 | 0.27 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 4 | 0.27 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 4 | 0.27 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 5 | 0.27 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 5 | 0.27 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 5 | 0.27 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 1 | 0.27 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 4 | 0.27 |
| (2,414) | 1:707:B:ARG:H | 1:704:B:LEU:HA | 9 | 0.27 |
| (2,373) | 1:701:B:VAL:HG21 | 1:698:B:VAL:HA | 5 | 0.27 |
| (2,373) | 1:701:B:VAL:HG22 | 1:698:B:VAL:HA | 5 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,373) | 1:701:B:VAL:HG23 | 1:698:B:VAL:HA | 5 | 0.27 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 1 | 0.27 |
| (2,351) | 1:696:B:ARG:H | 1:696:B:ARG:HE | 5 | 0.27 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD11 | 10 | 0.27 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD12 | 10 | 0.27 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD13 | 10 | 0.27 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD11 | 10 | 0.27 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD12 | 10 | 0.27 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD13 | 10 | 0.27 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD11 | 10 | 0.27 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD12 | 10 | 0.27 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD13 | 10 | 0.27 |
| (2,234) | 1:666:B:TRP:H | 1:663:B:LEU:HA | 13 | 0.27 |
| (2,214) | 1:661:B:LEU:HD11 | 1:662:B:GLU:HG2 | 3 | 0.27 |
| (2,214) | 1:661:B:LEU:HD11 | 1:662:B:GLU:HG3 | 3 | 0.27 |
| (2,214) | 1:661:B:LEU:HD12 | 1:662:B:GLU:HG2 | 3 | 0.27 |
| (2,214) | 1:661:B:LEU:HD12 | 1:662:B:GLU:HG3 | 3 | 0.27 |
| (2,214) | 1:661:B:LEU:HD13 | 1:662:B:GLU:HG2 | 3 | 0.27 |
| (2,214) | 1:661:B:LEU:HD13 | 1:662:B:GLU:HG3 | 3 | 0.27 |
| (2,214) | 1:661:B:LEU:HD21 | 1:662:B:GLU:HG2 | 3 | 0.27 |
| (2,214) | 1:661:B:LEU:HD21 | 1:662:B:GLU:HG3 | 3 | 0.27 |
| (2,214) | 1:661:B:LEU:HD22 | 1:662:B:GLU:HG2 | 3 | 0.27 |
| (2,214) | 1:661:B:LEU:HD22 | 1:662:B:GLU:HG3 | 3 | 0.27 |
| (2,214) | 1:661:B:LEU:HD23 | 1:662:B:GLU:HG2 | 3 | 0.27 |
| (2,214) | 1:661:B:LEU:HD23 | 1:662:B:GLU:HG3 | 3 | 0.27 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 1 | 0.27 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 1 | 0.27 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 5 | 0.27 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 5 | 0.27 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 1 | 0.27 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 1 | 0.27 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 5 | 0.27 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 5 | 0.27 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 13 | 0.27 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 13 | 0.27 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 13 | 0.27 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 13 | 0.27 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 2 | 0.27 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 3 | 0.27 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 3 | 0.27 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 3 | 0.27 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 3 | 0.27 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD11 | 8 | 0.27 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD12 | 8 | 0.27 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD13 | 8 | 0.27 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD21 | 8 | 0.27 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD22 | 8 | 0.27 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD23 | 8 | 0.27 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 3 | 0.27 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 3 | 0.27 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB2 | 10 | 0.27 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB3 | 10 | 0.27 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD1 | 5 | 0.27 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD2 | 5 | 0.27 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD1 | 9 | 0.27 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD2 | 9 | 0.27 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 10 | 0.27 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 10 | 0.27 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 10 | 0.27 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 10 | 0.27 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 10 | 0.27 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 10 | 0.27 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD2 | 6 | 0.27 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD3 | 6 | 0.27 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD2 | 6 | 0.27 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD3 | 6 | 0.27 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD2 | 6 | 0.27 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD3 | 6 | 0.27 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB2 | 10 | 0.27 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB3 | 10 | 0.27 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB2 | 10 | 0.27 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB3 | 10 | 0.27 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB2 | 10 | 0.27 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB3 | 10 | 0.27 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 11 | 0.27 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 11 | 0.27 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 11 | 0.27 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 11 | 0.27 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 11 | 0.27 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 11 | 0.27 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 15 | 0.27 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 15 | 0.27 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 15 | 0.27 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 6 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 6 | 0.26 |
| (2,1465) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 7 | 0.26 |
| (2,1465) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 9 | 0.26 |
| (2,1465) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 15 | 0.26 |
| (2,1457) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 6 | 0.26 |
| (2,1457) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 6 | 0.26 |
| (2,1457) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 6 | 0.26 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 6 | 0.26 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 11 | 0.26 |
| (2,1430) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 11 | 0.26 |
| (2,1430) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 11 | 0.26 |
| (2,1430) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 11 | 0.26 |
| (2,1425) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 3 | 0.26 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 6 | 0.26 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 6 | 0.26 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 6 | 0.26 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 6 | 0.26 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 6 | 0.26 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 6 | 0.26 |
| (2,1223) | 1:701:A:VAL:HG21 | 1:698:A:VAL:HA | 2 | 0.26 |
| (2,1223) | 1:701:A:VAL:HG22 | 1:698:A:VAL:HA | 2 | 0.26 |
| (2,1223) | 1:701:A:VAL:HG23 | 1:698:A:VAL:HA | 2 | 0.26 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 4 | 0.26 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 10 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD1 | 8 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD2 | 8 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD1 | 8 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD2 | 8 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD1 | 8 | 0.26 |
| (2,1176) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD2 | 8 | 0.26 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 12 | 0.26 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 12 | 0.26 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 12 | 0.26 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 12 | 0.26 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 12 | 0.26 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 12 | 0.26 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 8 | 0.26 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 8 | 0.26 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 8 | 0.26 |
| (2,1144) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB2 | 3 | 0.26 |
| (2,1144) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB3 | 3 | 0.26 |
| (2,1144) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB2 | 3 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1144) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB3 | 3 | 0.26 |
| (2,1144) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB2 | 3 | 0.26 |
| (2,1144) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB3 | 3 | 0.26 |
| (2,1126) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 5 | 0.26 |
| (2,1126) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 5 | 0.26 |
| (2,1126) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 5 | 0.26 |
| (2,1078) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 14 | 0.26 |
| (2,1078) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 15 | 0.26 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 6 | 0.26 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 6 | 0.26 |
| (2,1040) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 7 | 0.26 |
| (2,1040) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 9 | 0.26 |
| (2,1040) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 15 | 0.26 |
| (2,1032) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 6 | 0.26 |
| (2,1032) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 6 | 0.26 |
| (2,1032) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 6 | 0.26 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 6 | 0.26 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 11 | 0.26 |
| (2,1005) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 11 | 0.26 |
| (2,1005) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 11 | 0.26 |
| (2,1005) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 11 | 0.26 |
| (2,1000) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 3 | 0.26 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 6 | 0.26 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 6 | 0.26 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 6 | 0.26 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 6 | 0.26 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 6 | 0.26 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 6 | 0.26 |
| (2,798) | 1:701:A:VAL:HG21 | 1:698:A:VAL:HA | 2 | 0.26 |
| (2,798) | 1:701:A:VAL:HG22 | 1:698:A:VAL:HA | 2 | 0.26 |
| (2,798) | 1:701:A:VAL:HG23 | 1:698:A:VAL:HA | 2 | 0.26 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 4 | 0.26 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 10 | 0.26 |
| (2,751) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD1 | 8 | 0.26 |
| (2,751) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD2 | 8 | 0.26 |
| (2,751) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD1 | 8 | 0.26 |
| (2,751) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD2 | 8 | 0.26 |
| (2,751) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD1 | 8 | 0.26 |
| (2,751) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD2 | 8 | 0.26 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 12 | 0.26 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 12 | 0.26 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 12 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 12 | 0.26 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 12 | 0.26 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 12 | 0.26 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 8 | 0.26 |
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 8 | 0.26 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 8 | 0.26 |
| (2,719) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB2 | 3 | 0.26 |
| (2,719) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB3 | 3 | 0.26 |
| (2,719) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB2 | 3 | 0.26 |
| (2,719) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB3 | 3 | 0.26 |
| (2,719) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB2 | 3 | 0.26 |
| (2,719) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB3 | 3 | 0.26 |
| (2,701) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 5 | 0.26 |
| (2,701) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 5 | 0.26 |
| (2,701) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 5 | 0.26 |
| (2,653) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 14 | 0.26 |
| (2,653) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 15 | 0.26 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD11 | 1 | 0.26 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD12 | 1 | 0.26 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD13 | 1 | 0.26 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD21 | 1 | 0.26 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD22 | 1 | 0.26 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD23 | 1 | 0.26 |
| (2,618) | 1:797:B:TRP:H | 1:796:B:TRP:HD1 | 11 | 0.26 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 10 | 0.26 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 10 | 0.26 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 10 | 0.26 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 7 | 0.26 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 13 | 0.26 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 12 | 0.26 |
| (2,545) | 1:775:B:LEU:HD11 | 1:772:B:ARG:HA | 15 | 0.26 |
| (2,545) | 1:775:B:LEU:HD12 | 1:772:B:ARG:HA | 15 | 0.26 |
| (2,545) | 1:775:B:LEU:HD13 | 1:772:B:ARG:HA | 15 | 0.26 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH21 | 5 | 0.26 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH22 | 5 | 0.26 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH21 | 5 | 0.26 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH22 | 5 | 0.26 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH21 | 5 | 0.26 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH22 | 5 | 0.26 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH21 | 8 | 0.26 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH22 | 8 | 0.26 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH21 | 8 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH22 | 8 | 0.26 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH21 | 8 | 0.26 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH22 | 8 | 0.26 |
| (2,518) | 1:763:B:LEU:HD11 | 1:759:B:ASP:HA | 6 | 0.26 |
| (2,518) | 1:763:B:LEU:HD12 | 1:759:B:ASP:HA | 6 | 0.26 |
| (2,518) | 1:763:B:LEU:HD13 | 1:759:B:ASP:HA | 6 | 0.26 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 12 | 0.26 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 15 | 0.26 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 11 | 0.26 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 11 | 0.26 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 11 | 0.26 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 13 | 0.26 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 13 | 0.26 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 13 | 0.26 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 9 | 0.26 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 9 | 0.26 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 9 | 0.26 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 9 | 0.26 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 9 | 0.26 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 9 | 0.26 |
| (2,414) | 1:707:B:ARG:H | 1:704:B:LEU:HA | 11 | 0.26 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD2 | 12 | 0.26 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD3 | 12 | 0.26 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD2 | 12 | 0.26 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD3 | 12 | 0.26 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD2 | 12 | 0.26 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD3 | 12 | 0.26 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB2 | 2 | 0.26 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB3 | 2 | 0.26 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB2 | 2 | 0.26 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB3 | 2 | 0.26 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB2 | 2 | 0.26 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB3 | 2 | 0.26 |
| (2,333) | 1:692:B:LEU:HD11 | 1:696:B:ARG:HH11 | 12 | 0.26 |
| (2,333) | 1:692:B:LEU:HD11 | 1:696:B:ARG:HH12 | 12 | 0.26 |
| (2,296) | 1:682:B:ILE:HD11 | 1:681:B:TYR:H | 3 | 0.26 |
| (2,296) | 1:682:B:ILE:HD12 | 1:681:B:TYR:H | 3 | 0.26 |
| (2,296) | 1:682:B:ILE:HD13 | 1:681:B:TYR:H | 3 | 0.26 |
| (2,234) | 1:666:B:TRP:H | 1:663:B:LEU:HA | 10 | 0.26 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 13 | 0.26 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 13 | 0.26 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 13 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 13 | 0.26 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 13 | 0.26 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 13 | 0.26 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 4 | 0.26 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 4 | 0.26 |
| (2,192) | 1:816:A:ASN:H | 1:831:A:GLU:HG2 | 11 | 0.26 |
| (2,192) | 1:816:A:ASN:H | 1:831:A:GLU:HG3 | 11 | 0.26 |
| (2,191) | 1:816:A:ASN:H | 1:831:A:GLU:HG2 | 11 | 0.26 |
| (2,191) | 1:816:A:ASN:H | 1:831:A:GLU:HG3 | 11 | 0.26 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 5 | 0.26 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 5 | 0.26 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 12 | 0.26 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB2 | 12 | 0.26 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB3 | 12 | 0.26 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 12 | 0.26 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 12 | 0.26 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 12 | 0.26 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 12 | 0.26 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 12 | 0.26 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 12 | 0.26 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 14 | 0.26 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 14 | 0.26 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 14 | 0.26 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 14 | 0.26 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 14 | 0.26 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 14 | 0.26 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 2 | 0.26 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 2 | 0.26 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 2 | 0.26 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 2 | 0.26 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 2 | 0.26 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 2 | 0.26 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 15 | 0.26 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 15 | 0.26 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 15 | 0.26 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 15 | 0.26 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 15 | 0.26 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 15 | 0.26 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD1 | 5 | 0.26 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD2 | 5 | 0.26 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD1 | 5 | 0.26 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD2 | 5 | 0.26 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD1 | 5 | 0.26 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD2 | 5 | 0.26 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD1 | 12 | 0.26 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD2 | 12 | 0.26 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD1 | 12 | 0.26 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD2 | 12 | 0.26 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD1 | 12 | 0.26 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD2 | 12 | 0.26 |
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 10 | 0.26 |
| (1,178) | 1:792:B:ALA:O | 1:796:B:TRP:N | 11 | 0.26 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 10 | 0.26 |
| (1,92) | 1:792:B:ALA:O | 1:796:B:TRP:N | 11 | 0.26 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 10 | 0.26 |
| (1,6) | 1:792:B:ALA:O | 1:796:B:TRP:N | 11 | 0.26 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 5 | 0.25 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 5 | 0.25 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 9 | 0.25 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 9 | 0.25 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 9 | 0.25 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 9 | 0.25 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 9 | 0.25 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 9 | 0.25 |
| (2,1449) | 1:784:A:LEU:HD11 | 1:787:A:ARG:HD2 | 7 | 0.25 |
| (2,1449) | 1:784:A:LEU:HD11 | 1:787:A:ARG:HD3 | 7 | 0.25 |
| (2,1449) | 1:784:A:LEU:HD12 | 1:787:A:ARG:HD2 | 7 | 0.25 |
| (2,1449) | 1:784:A:LEU:HD12 | 1:787:A:ARG:HD3 | 7 | 0.25 |
| (2,1449) | 1:784:A:LEU:HD13 | 1:787:A:ARG:HD2 | 7 | 0.25 |
| (2,1449) | 1:784:A:LEU:HD13 | 1:787:A:ARG:HD3 | 7 | 0.25 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 13 | 0.25 |
| (2,1430) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 6 | 0.25 |
| (2,1430) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 6 | 0.25 |
| (2,1430) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 6 | 0.25 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 13 | 0.25 |
| (2,1414) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 7 | 0.25 |
| (2,1414) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 7 | 0.25 |
| (2,1414) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 7 | 0.25 |
| (2,1390) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 6 | 0.25 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 6 | 0.25 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 6 | 0.25 |
| (2,1376) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE1 | 4 | 0.25 |
| (2,1376) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE2 | 4 | 0.25 |
| (2,1376) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE1 | 4 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1376) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE2 | 4 | 0.25 |
| (2,1376) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE1 | 4 | 0.25 |
| (2,1376) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE2 | 4 | 0.25 |
| (2,1372) | 1:764:A:SER:H | 1:761:A:ARG:HA | 1 | 0.25 |
| (2,1365) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 9 | 0.25 |
| (2,1365) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 9 | 0.25 |
| (2,1365) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 9 | 0.25 |
| (2,1365) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 14 | 0.25 |
| (2,1365) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 14 | 0.25 |
| (2,1365) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 14 | 0.25 |
| (2,1323) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD22 | 4 | 0.25 |
| (2,1323) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD22 | 4 | 0.25 |
| (2,1323) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD22 | 4 | 0.25 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 2 | 0.25 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 2 | 0.25 |
| (2,1136) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 4 | 0.25 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 5 | 0.25 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 5 | 0.25 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 9 | 0.25 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 9 | 0.25 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 9 | 0.25 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 9 | 0.25 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 9 | 0.25 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 9 | 0.25 |
| (2,1024) | 1:784:A:LEU:HD11 | 1:787:A:ARG:HD2 | 7 | 0.25 |
| (2,1024) | 1:784:A:LEU:HD11 | 1:787:A:ARG:HD3 | 7 | 0.25 |
| (2,1024) | 1:784:A:LEU:HD12 | 1:787:A:ARG:HD2 | 7 | 0.25 |
| (2,1024) | 1:784:A:LEU:HD12 | 1:787:A:ARG:HD3 | 7 | 0.25 |
| (2,1024) | 1:784:A:LEU:HD13 | 1:787:A:ARG:HD2 | 7 | 0.25 |
| (2,1024) | 1:784:A:LEU:HD13 | 1:787:A:ARG:HD3 | 7 | 0.25 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 13 | 0.25 |
| (2,1005) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 6 | 0.25 |
| (2,1005) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 6 | 0.25 |
| (2,1005) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 6 | 0.25 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 13 | 0.25 |
| (2,989) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 7 | 0.25 |
| (2,989) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 7 | 0.25 |
| (2,989) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 7 | 0.25 |
| (2,965) | 1:775:A:LEU:H | 1:772:A:ARG:HA | 6 | 0.25 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 6 | 0.25 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 6 | 0.25 |
| (2,951) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE1 | 4 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,951) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE2 | 4 | 0.25 |
| (2,951) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE1 | 4 | 0.25 |
| (2,951) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE2 | 4 | 0.25 |
| (2,951) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE1 | 4 | 0.25 |
| (2,951) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE2 | 4 | 0.25 |
| (2,947) | 1:764:A:SER:H | 1:761:A:ARG:HA | 1 | 0.25 |
| (2,940) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 9 | 0.25 |
| (2,940) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 9 | 0.25 |
| (2,940) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 9 | 0.25 |
| (2,940) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 14 | 0.25 |
| (2,940) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 14 | 0.25 |
| (2,940) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 14 | 0.25 |
| (2,898) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD22 | 4 | 0.25 |
| (2,898) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD22 | 4 | 0.25 |
| (2,898) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD22 | 4 | 0.25 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 2 | 0.25 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 2 | 0.25 |
| (2,711) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 4 | 0.25 |
| (2,632) | 1:852:B:GLU:H | 1:848:B:ARG:HG2 | 12 | 0.25 |
| (2,632) | 1:852:B:GLU:H | 1:848:B:ARG:HG3 | 12 | 0.25 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 10 | 0.25 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 10 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD11 | 5 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD12 | 5 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD13 | 5 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD21 | 5 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD22 | 5 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD23 | 5 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD11 | 6 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD12 | 6 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD13 | 6 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD21 | 6 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD22 | 6 | 0.25 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD23 | 6 | 0.25 |
| (2,601) | 1:785:B:LEU:H | 1:782:B:VAL:HA | 7 | 0.25 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 1 | 0.25 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 5 | 0.25 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 11 | 0.25 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD2 | 10 | 0.25 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD3 | 10 | 0.25 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD2 | 10 | 0.25 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD3 | 10 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD2 | 10 | 0.25 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD3 | 10 | 0.25 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 4 | 0.25 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 14 | 0.25 |
| (2,522) | 1:764:B:SER:H | 1:761:B:ARG:HA | 15 | 0.25 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB2 | 1 | 0.25 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB3 | 1 | 0.25 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 6 | 0.25 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 8 | 0.25 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 8 | 0.25 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 2 | 0.25 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 2 | 0.25 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 2 | 0.25 |
| (2,470) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HA | 5 | 0.25 |
| (2,470) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HA | 5 | 0.25 |
| (2,470) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HA | 5 | 0.25 |
| (2,438) | 1:709:B:ARG:HE | 1:709:B:ARG:H | 13 | 0.25 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 15 | 0.25 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 15 | 0.25 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 15 | 0.25 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD2 | 2 | 0.25 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD3 | 2 | 0.25 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 9 | 0.25 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 9 | 0.25 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 9 | 0.25 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 10 | 0.25 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 10 | 0.25 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 10 | 0.25 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 10 | 0.25 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 10 | 0.25 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 10 | 0.25 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 3 | 0.25 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 3 | 0.25 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 3 | 0.25 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 11 | 0.25 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 1 | 0.25 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 1 | 0.25 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 1 | 0.25 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 10 | 0.25 |
| (2,126) | 1:785:A:LEU:HD21 | 1:749:B:VAL:HB | 12 | 0.25 |
| (2,126) | 1:785:A:LEU:HD22 | 1:749:B:VAL:HB | 12 | 0.25 |
| (2,126) | 1:785:A:LEU:HD23 | 1:749:B:VAL:HB | 12 | 0.25 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (1,227) | 1:827:B:ASP:O | 1:831:B:GLU:H | 6 | 0.25 |
| (1,174) | 1:790:B:TRP:O | 1:794:B:LYS:N | 1 | 0.25 |
| (1,141) | 1:827:B:ASP:O | 1:831:B:GLU:H | 6 | 0.25 |
| (1,88) | 1:790:B:TRP:O | 1:794:B:LYS:N | 1 | 0.25 |
| (1,55) | 1:827:B:ASP:O | 1:831:B:GLU:H | 6 | 0.25 |
| (1,2) | 1:790:B:TRP:O | 1:794:B:LYS:N | 1 | 0.25 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 11 | 0.24 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 11 | 0.24 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD11 | 5 | 0.24 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD12 | 5 | 0.24 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD13 | 5 | 0.24 |
| (2,1465) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 14 | 0.24 |
| (2,1464) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 13 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 2 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 2 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 2 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 8 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 8 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 8 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 10 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 10 | 0.24 |
| (2,1430) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 10 | 0.24 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 3 | 0.24 |
| (2,1365) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 11 | 0.24 |
| (2,1365) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 11 | 0.24 |
| (2,1365) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 11 | 0.24 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 6 | 0.24 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 6 | 0.24 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 6 | 0.24 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 6 | 0.24 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 6 | 0.24 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 6 | 0.24 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 11 | 0.24 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 10 | 0.24 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 11 | 0.24 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 11 | 0.24 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 11 | 0.24 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 2 | 0.24 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 2 | 0.24 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 3 | 0.24 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 3 | 0.24 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 3 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 3 | 0.24 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 3 | 0.24 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 3 | 0.24 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 6 | 0.24 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 6 | 0.24 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 6 | 0.24 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 6 | 0.24 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 6 | 0.24 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 6 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 7 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 7 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 7 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 7 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 7 | 0.24 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 7 | 0.24 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 8 | 0.24 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 10 | 0.24 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 11 | 0.24 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 11 | 0.24 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD11 | 5 | 0.24 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD12 | 5 | 0.24 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD13 | 5 | 0.24 |
| (2,1040) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 14 | 0.24 |
| (2,1039) | 1:793:A:LEU:H | 1:790:A:TRP:HE3 | 13 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 2 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 2 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 2 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 8 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 8 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 8 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 10 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 10 | 0.24 |
| (2,1005) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 10 | 0.24 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 3 | 0.24 |
| (2,940) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 11 | 0.24 |
| (2,940) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 11 | 0.24 |
| (2,940) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 11 | 0.24 |
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 6 | 0.24 |
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 6 | 0.24 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 6 | 0.24 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 6 | 0.24 |
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 6 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 6 | 0.24 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 11 | 0.24 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 10 | 0.24 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 11 | 0.24 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 11 | 0.24 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 11 | 0.24 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 2 | 0.24 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 2 | 0.24 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 3 | 0.24 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 3 | 0.24 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 3 | 0.24 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 3 | 0.24 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 3 | 0.24 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 3 | 0.24 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 6 | 0.24 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 6 | 0.24 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 6 | 0.24 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 6 | 0.24 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 6 | 0.24 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 6 | 0.24 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 7 | 0.24 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 7 | 0.24 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 7 | 0.24 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 7 | 0.24 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 7 | 0.24 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 7 | 0.24 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 8 | 0.24 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 10 | 0.24 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD11 | 8 | 0.24 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD12 | 8 | 0.24 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD13 | 8 | 0.24 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB2 | 8 | 0.24 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB3 | 8 | 0.24 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD11 | 9 | 0.24 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD12 | 9 | 0.24 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD13 | 9 | 0.24 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD21 | 9 | 0.24 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD22 | 9 | 0.24 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD23 | 9 | 0.24 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD2 | 3 | 0.24 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD3 | 3 | 0.24 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 1 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD2 | 12 | 0.24 |
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD3 | 12 | 0.24 |
| (2,522) | 1:764:B:SER:H | 1:761:B:ARG:HA | 14 | 0.24 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 8 | 0.24 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 14 | 0.24 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 14 | 0.24 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 14 | 0.24 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 5 | 0.24 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 5 | 0.24 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 5 | 0.24 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 5 | 0.24 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 5 | 0.24 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 5 | 0.24 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 8 | 0.24 |
| (2,357) | 1:698:B:VAL:HG11 | 1:699:B:PHE:HD1 | 11 | 0.24 |
| (2,357) | 1:698:B:VAL:HG11 | 1:699:B:PHE:HD2 | 11 | 0.24 |
| (2,357) | 1:698:B:VAL:HG12 | 1:699:B:PHE:HD1 | 11 | 0.24 |
| (2,357) | 1:698:B:VAL:HG12 | 1:699:B:PHE:HD2 | 11 | 0.24 |
| (2,357) | 1:698:B:VAL:HG13 | 1:699:B:PHE:HD1 | 11 | 0.24 |
| (2,357) | 1:698:B:VAL:HG13 | 1:699:B:PHE:HD2 | 11 | 0.24 |
| (2,355) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HA | 8 | 0.24 |
| (2,355) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HA | 8 | 0.24 |
| (2,355) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HA | 8 | 0.24 |
| (2,355) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HA | 10 | 0.24 |
| (2,355) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HA | 10 | 0.24 |
| (2,355) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HA | 10 | 0.24 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD11 | 4 | 0.24 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD12 | 4 | 0.24 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD13 | 4 | 0.24 |
| (2,272) | 1:674:B:ASP:H | 1:677:B:ASN:H | 8 | 0.24 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 12 | 0.24 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 12 | 0.24 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 12 | 0.24 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 12 | 0.24 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 12 | 0.24 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 12 | 0.24 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 10 | 0.24 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 10 | 0.24 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 10 | 0.24 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 10 | 0.24 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 2 | 0.24 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 2 | 0.24 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 2 | 0.24 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 2 | 0.24 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD2 | 4 | 0.24 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD3 | 4 | 0.24 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB1 | 15 | 0.24 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB2 | 15 | 0.24 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB3 | 15 | 0.24 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB1 | 15 | 0.24 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB2 | 15 | 0.24 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB3 | 15 | 0.24 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB1 | 15 | 0.24 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB2 | 15 | 0.24 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB3 | 15 | 0.24 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 3 | 0.24 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 3 | 0.24 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 3 | 0.24 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 3 | 0.24 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 3 | 0.24 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 3 | 0.24 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD1 | 7 | 0.24 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD2 | 7 | 0.24 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD1 | 7 | 0.24 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD2 | 7 | 0.24 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD1 | 7 | 0.24 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD2 | 7 | 0.24 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD11 | 8 | 0.24 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD12 | 8 | 0.24 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD13 | 8 | 0.24 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 4 | 0.24 |
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 13 | 0.24 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 4 | 0.24 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 13 | 0.24 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 4 | 0.24 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 13 | 0.24 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 4 | 0.23 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 4 | 0.23 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 10 | 0.23 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 10 | 0.23 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 10 | 0.23 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 10 | 0.23 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 10 | 0.23 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 10 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 5 | 0.23 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 5 | 0.23 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 7 | 0.23 |
| (2,1414) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 10 | 0.23 |
| (2,1414) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 10 | 0.23 |
| (2,1414) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 10 | 0.23 |
| (2,1407) | 1:777:A:ILE:HD11 | 1:774:A:LEU:HA | 11 | 0.23 |
| (2,1407) | 1:777:A:ILE:HD12 | 1:774:A:LEU:HA | 11 | 0.23 |
| (2,1407) | 1:777:A:ILE:HD13 | 1:774:A:LEU:HA | 11 | 0.23 |
| (2,1377) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH21 | 12 | 0.23 |
| (2,1377) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH22 | 12 | 0.23 |
| (2,1377) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH21 | 12 | 0.23 |
| (2,1377) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH22 | 12 | 0.23 |
| (2,1377) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH21 | 12 | 0.23 |
| (2,1377) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH22 | 12 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 2 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 2 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 2 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 2 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 2 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 2 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 11 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 11 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 11 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 11 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 11 | 0.23 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 11 | 0.23 |
| (2,1288) | 1:709:A:ARG:HE | 1:709:A:ARG:H | 14 | 0.23 |
| (2,1282) | 1:709:A:ARG:H | 1:707:A:ARG:H | 13 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 10 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 10 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 10 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 10 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 10 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 10 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 15 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 15 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 15 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 15 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 15 | 0.23 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 15 | 0.23 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 8 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 8 | 0.23 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 14 | 0.23 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 1 | 0.23 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 1 | 0.23 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 1 | 0.23 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 1 | 0.23 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 1 | 0.23 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 1 | 0.23 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 1 | 0.23 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH11 | 4 | 0.23 |
| (2,1183) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH12 | 4 | 0.23 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 14 | 0.23 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 14 | 0.23 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 14 | 0.23 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 14 | 0.23 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 14 | 0.23 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 14 | 0.23 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 12 | 0.23 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 12 | 0.23 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 12 | 0.23 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 7 | 0.23 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 15 | 0.23 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 9 | 0.23 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 4 | 0.23 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 4 | 0.23 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 10 | 0.23 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 10 | 0.23 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 10 | 0.23 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 10 | 0.23 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 10 | 0.23 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 10 | 0.23 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 5 | 0.23 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 5 | 0.23 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 7 | 0.23 |
| (2,989) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 10 | 0.23 |
| (2,989) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 10 | 0.23 |
| (2,989) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 10 | 0.23 |
| (2,982) | 1:777:A:ILE:HD11 | 1:774:A:LEU:HA | 11 | 0.23 |
| (2,982) | 1:777:A:ILE:HD12 | 1:774:A:LEU:HA | 11 | 0.23 |
| (2,982) | 1:777:A:ILE:HD13 | 1:774:A:LEU:HA | 11 | 0.23 |
| (2,952) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH21 | 12 | 0.23 |
| (2,952) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH22 | 12 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,952) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH21 | 12 | 0.23 |
| (2,952) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH22 | 12 | 0.23 |
| (2,952) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH21 | 12 | 0.23 |
| (2,952) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH22 | 12 | 0.23 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 2 | 0.23 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 2 | 0.23 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 2 | 0.23 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 2 | 0.23 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 2 | 0.23 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 2 | 0.23 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 11 | 0.23 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 11 | 0.23 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 11 | 0.23 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 11 | 0.23 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 11 | 0.23 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 11 | 0.23 |
| (2,863) | 1:709:A:ARG:HE | 1:709:A:ARG:H | 14 | 0.23 |
| (2,857) | 1:709:A:ARG:H | 1:707:A:ARG:H | 13 | 0.23 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 10 | 0.23 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 10 | 0.23 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 10 | 0.23 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 10 | 0.23 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 10 | 0.23 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 10 | 0.23 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 15 | 0.23 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 15 | 0.23 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 15 | 0.23 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 15 | 0.23 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 15 | 0.23 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 15 | 0.23 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 8 | 0.23 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 8 | 0.23 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 14 | 0.23 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 1 | 0.23 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 1 | 0.23 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 1 | 0.23 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 1 | 0.23 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 1 | 0.23 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 1 | 0.23 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 1 | 0.23 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH11 | 4 | 0.23 |
| (2,758) | 1:692:A:LEU:HD12 | 1:696:A:ARG:HH12 | 4 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 14 | 0.23 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 14 | 0.23 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 14 | 0.23 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 14 | 0.23 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 14 | 0.23 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 14 | 0.23 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 12 | 0.23 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 12 | 0.23 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 12 | 0.23 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 7 | 0.23 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 15 | 0.23 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 9 | 0.23 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 14 | 0.23 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 8 | 0.23 |
| (2,536) | 1:774:B:LEU:H | 1:764:B:SER:HA | 3 | 0.23 |
| (2,519) | 1:763:B:LEU:HD11 | 1:764:B:SER:HG | 7 | 0.23 |
| (2,519) | 1:763:B:LEU:HD12 | 1:764:B:SER:HG | 7 | 0.23 |
| (2,519) | 1:763:B:LEU:HD13 | 1:764:B:SER:HG | 7 | 0.23 |
| (2,515) | 1:760:B:LEU:HD11 | 1:757:B:TRP:HA | 4 | 0.23 |
| (2,515) | 1:760:B:LEU:HD12 | 1:757:B:TRP:HA | 4 | 0.23 |
| (2,515) | 1:760:B:LEU:HD13 | 1:757:B:TRP:HA | 4 | 0.23 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 10 | 0.23 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 10 | 0.23 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 10 | 0.23 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 10 | 0.23 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 10 | 0.23 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 10 | 0.23 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 4 | 0.23 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG11 | 13 | 0.23 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG12 | 13 | 0.23 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG13 | 13 | 0.23 |
| (2,404) | 1:705:B:VAL:HG21 | 1:701:B:VAL:HA | 12 | 0.23 |
| (2,404) | 1:705:B:VAL:HG22 | 1:701:B:VAL:HA | 12 | 0.23 |
| (2,404) | 1:705:B:VAL:HG23 | 1:701:B:VAL:HA | 12 | 0.23 |
| (2,390) | 1:704:B:LEU:H | 1:704:B:LEU:HB3 | 2 | 0.23 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB2 | 14 | 0.23 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB3 | 14 | 0.23 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB2 | 14 | 0.23 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB3 | 14 | 0.23 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB2 | 14 | 0.23 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB3 | 14 | 0.23 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 7 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 9 | 0.23 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 15 | 0.23 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD1 | 12 | 0.23 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD2 | 12 | 0.23 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD1 | 12 | 0.23 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD2 | 12 | 0.23 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD1 | 12 | 0.23 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD2 | 12 | 0.23 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB2 | 1 | 0.23 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB3 | 1 | 0.23 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB2 | 1 | 0.23 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB3 | 1 | 0.23 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB2 | 1 | 0.23 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB3 | 1 | 0.23 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD11 | 1 | 0.23 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD12 | 1 | 0.23 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD13 | 1 | 0.23 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD21 | 1 | 0.23 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD22 | 1 | 0.23 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD23 | 1 | 0.23 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 10 | 0.23 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 15 | 0.23 |
| (2,241) | 1:666:B:TRP:HE1 | 1:662:B:GLU:H | 9 | 0.23 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 8 | 0.23 |
| (2,213) | 1:839:A:ALA:H | 1:808:A:LYS:HZ1 | 15 | 0.23 |
| (2,213) | 1:839:A:ALA:H | 1:808:A:LYS:HZ2 | 15 | 0.23 |
| (2,213) | 1:839:A:ALA:H | 1:808:A:LYS:HZ3 | 15 | 0.23 |
| (2,212) | 1:839:A:ALA:H | 1:808:A:LYS:HZ1 | 15 | 0.23 |
| (2,212) | 1:839:A:ALA:H | 1:808:A:LYS:HZ2 | 15 | 0.23 |
| (2,212) | 1:839:A:ALA:H | 1:808:A:LYS:HZ3 | 15 | 0.23 |
| (2,177) | 1:803:A:TRP:HE1 | 1:764:B:SER:HG | 8 | 0.23 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 4 | 0.23 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 4 | 0.23 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 4 | 0.23 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 4 | 0.23 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 10 | 0.23 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 10 | 0.23 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 11 | 0.23 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 11 | 0.23 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 10 | 0.23 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 10 | 0.23 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 11 | 0.23 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|---------------------|---------------------|----------|---------------|
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 11 | 0.23 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 7 | 0.23 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 7 | 0.23 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 2 | 0.23 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 2 | 0.23 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 10 | 0.23 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 10 | 0.23 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 10 | 0.23 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 10 | 0.23 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 10 | 0.23 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 10 | 0.23 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 10 | 0.23 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 10 | 0.23 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 10 | 0.23 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 10 | 0.23 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 10 | 0.23 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 13 | 0.23 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 13 | 0.23 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 13 | 0.23 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 13 | 0.23 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 13 | 0.23 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 13 | 0.23 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD11 | 11 | 0.23 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD12 | 11 | 0.23 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD13 | 11 | 0.23 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB2 | 8 | 0.23 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB3 | 8 | 0.23 |
| (1,192) | 1:799:B:LEU:O | 1:803:B:TRP:N | 9 | 0.23 |
| (1,191) | 1:799:B:LEU:O | 1:803:B:TRP:H | 4 | 0.23 |
| (1,106) | 1:799:B:LEU:O | 1:803:B:TRP:N | 9 | 0.23 |
| (1,105) | 1:799:B:LEU:O | 1:803:B:TRP:H | 4 | 0.23 |
| (1,20) | 1:799:B:LEU:O | 1:803:B:TRP:N | 9 | 0.23 |
| (1,19) | 1:799:B:LEU:O | 1:803:B:TRP:H | 4 | 0.23 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 9 | 0.22 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 9 | 0.22 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 1 | 0.22 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 1 | 0.22 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 15 | 0.22 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 15 | 0.22 |
| (2,1430) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 1 | 0.22 |
| (2,1430) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 1 | 0.22 |
| (2,1430) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 1 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1425) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 11 | 0.22 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 9 | 0.22 |
| (2,1407) | 1:777:A:ILE:HD11 | 1:774:A:LEU:HA | 3 | 0.22 |
| (2,1407) | 1:777:A:ILE:HD12 | 1:774:A:LEU:HA | 3 | 0.22 |
| (2,1407) | 1:777:A:ILE:HD13 | 1:774:A:LEU:HA | 3 | 0.22 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 7 | 0.22 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 7 | 0.22 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 8 | 0.22 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 8 | 0.22 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 10 | 0.22 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 10 | 0.22 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 8 | 0.22 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 8 | 0.22 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 8 | 0.22 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 8 | 0.22 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 8 | 0.22 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 8 | 0.22 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 15 | 0.22 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 15 | 0.22 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 15 | 0.22 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 15 | 0.22 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 15 | 0.22 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 15 | 0.22 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 15 | 0.22 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 13 | 0.22 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 13 | 0.22 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 13 | 0.22 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 13 | 0.22 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 13 | 0.22 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 13 | 0.22 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 13 | 0.22 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 10 | 0.22 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 10 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 5 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 5 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 5 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 5 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 5 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 5 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 15 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 15 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 15 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 15 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 15 | 0.22 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 15 | 0.22 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 8 | 0.22 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 8 | 0.22 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 8 | 0.22 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 8 | 0.22 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 8 | 0.22 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 8 | 0.22 |
| (2,1190) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG2 | 6 | 0.22 |
| (2,1190) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG3 | 6 | 0.22 |
| (2,1190) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG2 | 6 | 0.22 |
| (2,1190) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG3 | 6 | 0.22 |
| (2,1190) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG2 | 6 | 0.22 |
| (2,1190) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG3 | 6 | 0.22 |
| (2,1183) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH11 | 11 | 0.22 |
| (2,1183) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH12 | 11 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 1 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 1 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 1 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 1 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 1 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 1 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 9 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 9 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 9 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 9 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 9 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 9 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 11 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 11 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 11 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 11 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 11 | 0.22 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 11 | 0.22 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 13 | 0.22 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 13 | 0.22 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 13 | 0.22 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 9 | 0.22 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 11 | 0.22 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 8 | 0.22 |
| (2,1075) | 1:664:A:ASP:H | 1:663:A:LEU:H | 15 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 3 | 0.22 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 11 | 0.22 |
| (2,1069) | 1:663:A:LEU:H | 1:664:A:ASP:H | 15 | 0.22 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 9 | 0.22 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 9 | 0.22 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 1 | 0.22 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 1 | 0.22 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 15 | 0.22 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 15 | 0.22 |
| (2,1005) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 1 | 0.22 |
| (2,1005) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 1 | 0.22 |
| (2,1005) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 1 | 0.22 |
| (2,1000) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 11 | 0.22 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 9 | 0.22 |
| (2,982) | 1:777:A:ILE:HD11 | 1:774:A:LEU:HA | 3 | 0.22 |
| (2,982) | 1:777:A:ILE:HD12 | 1:774:A:LEU:HA | 3 | 0.22 |
| (2,982) | 1:777:A:ILE:HD13 | 1:774:A:LEU:HA | 3 | 0.22 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 7 | 0.22 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 7 | 0.22 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 8 | 0.22 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 8 | 0.22 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 10 | 0.22 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 10 | 0.22 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 8 | 0.22 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 8 | 0.22 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 8 | 0.22 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 8 | 0.22 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 8 | 0.22 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 8 | 0.22 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 15 | 0.22 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 15 | 0.22 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 15 | 0.22 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 15 | 0.22 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 15 | 0.22 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 15 | 0.22 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 15 | 0.22 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 13 | 0.22 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 13 | 0.22 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 13 | 0.22 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 13 | 0.22 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 13 | 0.22 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 13 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 13 | 0.22 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 10 | 0.22 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 10 | 0.22 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 5 | 0.22 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 5 | 0.22 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 5 | 0.22 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 5 | 0.22 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 5 | 0.22 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 5 | 0.22 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 15 | 0.22 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 15 | 0.22 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 15 | 0.22 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 15 | 0.22 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 15 | 0.22 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 15 | 0.22 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 8 | 0.22 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 8 | 0.22 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 8 | 0.22 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 8 | 0.22 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 8 | 0.22 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 8 | 0.22 |
| (2,765) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG2 | 6 | 0.22 |
| (2,765) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG3 | 6 | 0.22 |
| (2,765) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG2 | 6 | 0.22 |
| (2,765) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG3 | 6 | 0.22 |
| (2,765) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG2 | 6 | 0.22 |
| (2,765) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG3 | 6 | 0.22 |
| (2,758) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH11 | 11 | 0.22 |
| (2,758) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH12 | 11 | 0.22 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 1 | 0.22 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 1 | 0.22 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 1 | 0.22 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 1 | 0.22 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 1 | 0.22 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 1 | 0.22 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 9 | 0.22 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 9 | 0.22 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 9 | 0.22 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 9 | 0.22 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 9 | 0.22 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 9 | 0.22 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 11 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 11 | 0.22 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 11 | 0.22 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 11 | 0.22 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 11 | 0.22 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 11 | 0.22 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 13 | 0.22 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 13 | 0.22 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 13 | 0.22 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 9 | 0.22 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 11 | 0.22 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 8 | 0.22 |
| (2,650) | 1:664:A:ASP:H | 1:663:A:LEU:H | 15 | 0.22 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 3 | 0.22 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 11 | 0.22 |
| (2,644) | 1:663:A:LEU:H | 1:664:A:ASP:H | 15 | 0.22 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD21 | 3 | 0.22 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD22 | 3 | 0.22 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD23 | 3 | 0.22 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD21 | 4 | 0.22 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD22 | 4 | 0.22 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD23 | 4 | 0.22 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 4 | 0.22 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 4 | 0.22 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 4 | 0.22 |
| (2,601) | 1:785:B:LEU:H | 1:782:B:VAL:HA | 5 | 0.22 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 2 | 0.22 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 14 | 0.22 |
| (2,575) | 1:781:B:ILE:H | 1:778:B:VAL:HA | 11 | 0.22 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 4 | 0.22 |
| (2,564) | 1:778:B:VAL:HG21 | 1:775:B:LEU:HA | 11 | 0.22 |
| (2,564) | 1:778:B:VAL:HG22 | 1:775:B:LEU:HA | 11 | 0.22 |
| (2,564) | 1:778:B:VAL:HG23 | 1:775:B:LEU:HA | 11 | 0.22 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 4 | 0.22 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 15 | 0.22 |
| (2,546) | 1:776:B:LEU:H | 1:773:B:ASP:HA | 1 | 0.22 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 6 | 0.22 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 6 | 0.22 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 6 | 0.22 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 6 | 0.22 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 6 | 0.22 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 6 | 0.22 |
| (2,444) | 1:710:B:GLN:H | 1:710:B:GLN:HB3 | 9 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB2 | 4 | 0.22 |
| (2,430) | 1:708:B:VAL:HG21 | 1:745:B:SER:HB3 | 4 | 0.22 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB2 | 4 | 0.22 |
| (2,430) | 1:708:B:VAL:HG22 | 1:745:B:SER:HB3 | 4 | 0.22 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB2 | 4 | 0.22 |
| (2,430) | 1:708:B:VAL:HG23 | 1:745:B:SER:HB3 | 4 | 0.22 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 7 | 0.22 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 7 | 0.22 |
| (2,405) | 1:705:B:VAL:HG21 | 1:702:B:LEU:HG | 1 | 0.22 |
| (2,405) | 1:705:B:VAL:HG22 | 1:702:B:LEU:HG | 1 | 0.22 |
| (2,405) | 1:705:B:VAL:HG23 | 1:702:B:LEU:HG | 1 | 0.22 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 4 | 0.22 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 4 | 0.22 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 4 | 0.22 |
| (2,401) | 1:705:B:VAL:HG11 | 1:702:B:LEU:HA | 13 | 0.22 |
| (2,401) | 1:705:B:VAL:HG12 | 1:702:B:LEU:HA | 13 | 0.22 |
| (2,401) | 1:705:B:VAL:HG13 | 1:702:B:LEU:HA | 13 | 0.22 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 3 | 0.22 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 13 | 0.22 |
| (2,367) | 1:700:B:ALA:HB1 | 1:697:B:ILE:HA | 5 | 0.22 |
| (2,367) | 1:700:B:ALA:HB2 | 1:697:B:ILE:HA | 5 | 0.22 |
| (2,367) | 1:700:B:ALA:HB3 | 1:697:B:ILE:HA | 5 | 0.22 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD11 | 5 | 0.22 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD12 | 5 | 0.22 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD13 | 5 | 0.22 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD11 | 5 | 0.22 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD12 | 5 | 0.22 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD13 | 5 | 0.22 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD11 | 5 | 0.22 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD12 | 5 | 0.22 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD13 | 5 | 0.22 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD11 | 14 | 0.22 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD12 | 14 | 0.22 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD13 | 14 | 0.22 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD11 | 14 | 0.22 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD12 | 14 | 0.22 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD13 | 14 | 0.22 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD11 | 14 | 0.22 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD12 | 14 | 0.22 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD13 | 14 | 0.22 |
| (2,289) | 1:680:B:TRP:HE1 | 1:683:B:ARG:HH21 | 10 | 0.22 |
| (2,289) | 1:680:B:TRP:HE1 | 1:683:B:ARG:HH22 | 10 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 4 | 0.22 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 4 | 0.22 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 4 | 0.22 |
| (2,245) | 1:667:B:ALA:H | 1:666:B:TRP:HD1 | 14 | 0.22 |
| (2,241) | 1:666:B:TRP:HE1 | 1:662:B:GLU:H | 2 | 0.22 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 11 | 0.22 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 3 | 0.22 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 6 | 0.22 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 9 | 0.22 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 9 | 0.22 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG12 | 11 | 0.22 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG13 | 11 | 0.22 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 4 | 0.22 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 4 | 0.22 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 4 | 0.22 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 9 | 0.22 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 9 | 0.22 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 9 | 0.22 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 4 | 0.22 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 4 | 0.22 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 4 | 0.22 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 9 | 0.22 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 9 | 0.22 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 9 | 0.22 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD11 | 3 | 0.22 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD12 | 3 | 0.22 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD13 | 3 | 0.22 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD11 | 2 | 0.22 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD12 | 2 | 0.22 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD13 | 2 | 0.22 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 6 | 0.22 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 6 | 0.22 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 4 | 0.22 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 9 | 0.22 |
| (2,177) | 1:803:A:TRP:HE1 | 1:764:B:SER:HG | 15 | 0.22 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 9 | 0.22 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 9 | 0.22 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 3 | 0.22 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 3 | 0.22 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 10 | 0.22 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 10 | 0.22 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 13 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 13 | 0.22 |
| (2,126) | 1:785:A:LEU:HD21 | 1:749:B:VAL:HB | 10 | 0.22 |
| (2,126) | 1:785:A:LEU:HD22 | 1:749:B:VAL:HB | 10 | 0.22 |
| (2,126) | 1:785:A:LEU:HD23 | 1:749:B:VAL:HB | 10 | 0.22 |
| (2,117) | 1:781:A:ILE:HD11 | 1:746:B:ILE:HG12 | 3 | 0.22 |
| (2,117) | 1:781:A:ILE:HD11 | 1:746:B:ILE:HG13 | 3 | 0.22 |
| (2,117) | 1:781:A:ILE:HD12 | 1:746:B:ILE:HG12 | 3 | 0.22 |
| (2,117) | 1:781:A:ILE:HD12 | 1:746:B:ILE:HG13 | 3 | 0.22 |
| (2,117) | 1:781:A:ILE:HD13 | 1:746:B:ILE:HG12 | 3 | 0.22 |
| (2,117) | 1:781:A:ILE:HD13 | 1:746:B:ILE:HG13 | 3 | 0.22 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 14 | 0.22 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 14 | 0.22 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 14 | 0.22 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD2 | 7 | 0.22 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD3 | 7 | 0.22 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD2 | 7 | 0.22 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD3 | 7 | 0.22 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD2 | 7 | 0.22 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD3 | 7 | 0.22 |
| (2,63) | 1:700:A:ALA:HB1 | 1:702:B:LEU:HB2 | 4 | 0.22 |
| (2,63) | 1:700:A:ALA:HB1 | 1:702:B:LEU:HB3 | 4 | 0.22 |
| (2,63) | 1:700:A:ALA:HB2 | 1:702:B:LEU:HB2 | 4 | 0.22 |
| (2,63) | 1:700:A:ALA:HB2 | 1:702:B:LEU:HB3 | 4 | 0.22 |
| (2,63) | 1:700:A:ALA:HB3 | 1:702:B:LEU:HB2 | 4 | 0.22 |
| (2,63) | 1:700:A:ALA:HB3 | 1:702:B:LEU:HB3 | 4 | 0.22 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 4 | 0.22 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 4 | 0.22 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 4 | 0.22 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 4 | 0.22 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 4 | 0.22 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 4 | 0.22 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 9 | 0.22 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 9 | 0.22 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 9 | 0.22 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 9 | 0.22 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 9 | 0.22 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 9 | 0.22 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD11 | 9 | 0.22 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD12 | 9 | 0.22 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD13 | 9 | 0.22 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 8 | 0.22 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 14 | 0.22 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 15 | 0.22 |
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 12 | 0.22 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 8 | 0.22 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 14 | 0.22 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 15 | 0.22 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 12 | 0.22 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 8 | 0.22 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 14 | 0.22 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 15 | 0.22 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 12 | 0.22 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 1 | 0.21 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 1 | 0.21 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 3 | 0.21 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 3 | 0.21 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 7 | 0.21 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 7 | 0.21 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 13 | 0.21 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 13 | 0.21 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 1 | 0.21 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 1 | 0.21 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 9 | 0.21 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 9 | 0.21 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 1 | 0.21 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 1 | 0.21 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 1 | 0.21 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 1 | 0.21 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 1 | 0.21 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 1 | 0.21 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD11 | 4 | 0.21 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD12 | 4 | 0.21 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD13 | 4 | 0.21 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD21 | 4 | 0.21 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD22 | 4 | 0.21 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD23 | 4 | 0.21 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 15 | 0.21 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 15 | 0.21 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 15 | 0.21 |
| (2,1457) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 5 | 0.21 |
| (2,1457) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 5 | 0.21 |
| (2,1457) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 5 | 0.21 |
| (2,1451) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 3 | 0.21 |
| (2,1425) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 1 | 0.21 |

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Full wwPDB NMR Structure Validation Report

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 12 | 0.21 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 12 | 0.21 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 12 | 0.21 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 12 | 0.21 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 12 | 0.21 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 12 | 0.21 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 12 | 0.21 |
| (2,1407) | 1:777:A:ILE:HD11 | 1:774:A:LEU:HA | 12 | 0.21 |
| (2,1407) | 1:777:A:ILE:HD12 | 1:774:A:LEU:HA | 12 | 0.21 |
| (2,1407) | 1:777:A:ILE:HD13 | 1:774:A:LEU:HA | 12 | 0.21 |
| (2,1369) | 1:763:A:LEU:HD11 | 1:764:A:SER:HG | 1 | 0.21 |
| (2,1369) | 1:763:A:LEU:HD12 | 1:764:A:SER:HG | 1 | 0.21 |
| (2,1369) | 1:763:A:LEU:HD13 | 1:764:A:SER:HG | 1 | 0.21 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 6 | 0.21 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 6 | 0.21 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 11 | 0.21 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 11 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 14 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 14 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 14 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 14 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 14 | 0.21 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 14 | 0.21 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 5 | 0.21 |
| (2,1329) | 1:748:A:LEU:H | 1:745:A:SER:HA | 13 | 0.21 |
| (2,1323) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD22 | 15 | 0.21 |
| (2,1323) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD22 | 15 | 0.21 |
| (2,1323) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD22 | 15 | 0.21 |
| (2,1319) | 1:746:A:ILE:HD11 | 1:742:A:ARG:HD2 | 6 | 0.21 |
| (2,1319) | 1:746:A:ILE:HD11 | 1:742:A:ARG:HD3 | 6 | 0.21 |
| (2,1319) | 1:746:A:ILE:HD12 | 1:742:A:ARG:HD2 | 6 | 0.21 |
| (2,1319) | 1:746:A:ILE:HD12 | 1:742:A:ARG:HD3 | 6 | 0.21 |
| (2,1319) | 1:746:A:ILE:HD13 | 1:742:A:ARG:HD2 | 6 | 0.21 |
| (2,1319) | 1:746:A:ILE:HD13 | 1:742:A:ARG:HD3 | 6 | 0.21 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 8 | 0.21 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 12 | 0.21 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 15 | 0.21 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 15 | 0.21 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 11 | 0.21 |
| (2,1246) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 8 | 0.21 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 11 | 0.21 |
| (2,1206) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 4 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1206) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 4 | 0.21 |
| (2,1206) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 4 | 0.21 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 4 | 0.21 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 4 | 0.21 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 4 | 0.21 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 4 | 0.21 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 4 | 0.21 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 4 | 0.21 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 4 | 0.21 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 4 | 0.21 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 4 | 0.21 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 10 | 0.21 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 10 | 0.21 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 10 | 0.21 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 10 | 0.21 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 10 | 0.21 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 10 | 0.21 |
| (2,1152) | 1:684:A:ILE:HD11 | 1:681:A:TYR:HE1 | 2 | 0.21 |
| (2,1152) | 1:684:A:ILE:HD11 | 1:681:A:TYR:HE2 | 2 | 0.21 |
| (2,1152) | 1:684:A:ILE:HD12 | 1:681:A:TYR:HE1 | 2 | 0.21 |
| (2,1152) | 1:684:A:ILE:HD12 | 1:681:A:TYR:HE2 | 2 | 0.21 |
| (2,1152) | 1:684:A:ILE:HD13 | 1:681:A:TYR:HE1 | 2 | 0.21 |
| (2,1152) | 1:684:A:ILE:HD13 | 1:681:A:TYR:HE2 | 2 | 0.21 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 6 | 0.21 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 6 | 0.21 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 6 | 0.21 |
| (2,1130) | 1:676:A:THR:HG21 | 1:681:A:TYR:HH | 9 | 0.21 |
| (2,1130) | 1:676:A:THR:HG22 | 1:681:A:TYR:HH | 9 | 0.21 |
| (2,1130) | 1:676:A:THR:HG23 | 1:681:A:TYR:HH | 9 | 0.21 |
| (2,1127) | 1:676:A:THR:HG21 | 1:669:A:LEU:HA | 5 | 0.21 |
| (2,1127) | 1:676:A:THR:HG22 | 1:669:A:LEU:HA | 5 | 0.21 |
| (2,1127) | 1:676:A:THR:HG23 | 1:669:A:LEU:HA | 5 | 0.21 |
| (2,1126) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 7 | 0.21 |
| (2,1126) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 7 | 0.21 |
| (2,1126) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 7 | 0.21 |
| (2,1122) | 1:674:A:ASP:H | 1:677:A:ASN:H | 15 | 0.21 |
| (2,1113) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB1 | 5 | 0.21 |
| (2,1113) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB2 | 5 | 0.21 |
| (2,1113) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB3 | 5 | 0.21 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 4 | 0.21 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 10 | 0.21 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 15 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 2 | 0.21 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 5 | 0.21 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 13 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 1 | 0.21 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 1 | 0.21 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 3 | 0.21 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 3 | 0.21 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 7 | 0.21 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 7 | 0.21 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 13 | 0.21 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 13 | 0.21 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 1 | 0.21 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 1 | 0.21 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 9 | 0.21 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 9 | 0.21 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 1 | 0.21 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 1 | 0.21 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 1 | 0.21 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 1 | 0.21 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 1 | 0.21 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 1 | 0.21 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD11 | 4 | 0.21 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD12 | 4 | 0.21 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD13 | 4 | 0.21 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD21 | 4 | 0.21 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD22 | 4 | 0.21 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD23 | 4 | 0.21 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 15 | 0.21 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 15 | 0.21 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 15 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1032) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 5 | 0.21 |
| (2,1032) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 5 | 0.21 |
| (2,1032) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 5 | 0.21 |
| (2,1026) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 3 | 0.21 |
| (2,1000) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 1 | 0.21 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 12 | 0.21 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 12 | 0.21 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 12 | 0.21 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 12 | 0.21 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 12 | 0.21 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 12 | 0.21 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 12 | 0.21 |
| (2,982) | 1:777:A:ILE:HD11 | 1:774:A:LEU:HA | 12 | 0.21 |
| (2,982) | 1:777:A:ILE:HD12 | 1:774:A:LEU:HA | 12 | 0.21 |
| (2,982) | 1:777:A:ILE:HD13 | 1:774:A:LEU:HA | 12 | 0.21 |
| (2,944) | 1:763:A:LEU:HD11 | 1:764:A:SER:HG | 1 | 0.21 |
| (2,944) | 1:763:A:LEU:HD12 | 1:764:A:SER:HG | 1 | 0.21 |
| (2,944) | 1:763:A:LEU:HD13 | 1:764:A:SER:HG | 1 | 0.21 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 6 | 0.21 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 6 | 0.21 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 11 | 0.21 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 11 | 0.21 |
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 14 | 0.21 |
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 14 | 0.21 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 14 | 0.21 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 14 | 0.21 |
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 14 | 0.21 |
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 14 | 0.21 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 5 | 0.21 |
| (2,904) | 1:748:A:LEU:H | 1:745:A:SER:HA | 13 | 0.21 |
| (2,898) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD22 | 15 | 0.21 |
| (2,898) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD22 | 15 | 0.21 |
| (2,898) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD22 | 15 | 0.21 |
| (2,894) | 1:746:A:ILE:HD11 | 1:742:A:ARG:HD2 | 6 | 0.21 |
| (2,894) | 1:746:A:ILE:HD11 | 1:742:A:ARG:HD3 | 6 | 0.21 |
| (2,894) | 1:746:A:ILE:HD12 | 1:742:A:ARG:HD2 | 6 | 0.21 |
| (2,894) | 1:746:A:ILE:HD12 | 1:742:A:ARG:HD3 | 6 | 0.21 |
| (2,894) | 1:746:A:ILE:HD13 | 1:742:A:ARG:HD2 | 6 | 0.21 |
| (2,894) | 1:746:A:ILE:HD13 | 1:742:A:ARG:HD3 | 6 | 0.21 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 8 | 0.21 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 12 | 0.21 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 15 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 15 | 0.21 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 11 | 0.21 |
| (2,821) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 8 | 0.21 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 11 | 0.21 |
| (2,781) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 4 | 0.21 |
| (2,781) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 4 | 0.21 |
| (2,781) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 4 | 0.21 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 4 | 0.21 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 4 | 0.21 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 4 | 0.21 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 4 | 0.21 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 4 | 0.21 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 4 | 0.21 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 4 | 0.21 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 4 | 0.21 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 4 | 0.21 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 10 | 0.21 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 10 | 0.21 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 10 | 0.21 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 10 | 0.21 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 10 | 0.21 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 10 | 0.21 |
| (2,727) | 1:684:A:ILE:HD11 | 1:681:A:TYR:HE1 | 2 | 0.21 |
| (2,727) | 1:684:A:ILE:HD11 | 1:681:A:TYR:HE2 | 2 | 0.21 |
| (2,727) | 1:684:A:ILE:HD12 | 1:681:A:TYR:HE1 | 2 | 0.21 |
| (2,727) | 1:684:A:ILE:HD12 | 1:681:A:TYR:HE2 | 2 | 0.21 |
| (2,727) | 1:684:A:ILE:HD13 | 1:681:A:TYR:HE1 | 2 | 0.21 |
| (2,727) | 1:684:A:ILE:HD13 | 1:681:A:TYR:HE2 | 2 | 0.21 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 6 | 0.21 |
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 6 | 0.21 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 6 | 0.21 |
| (2,705) | 1:676:A:THR:HG21 | 1:681:A:TYR:HH | 9 | 0.21 |
| (2,705) | 1:676:A:THR:HG22 | 1:681:A:TYR:HH | 9 | 0.21 |
| (2,705) | 1:676:A:THR:HG23 | 1:681:A:TYR:HH | 9 | 0.21 |
| (2,702) | 1:676:A:THR:HG21 | 1:669:A:LEU:HA | 5 | 0.21 |
| (2,702) | 1:676:A:THR:HG22 | 1:669:A:LEU:HA | 5 | 0.21 |
| (2,702) | 1:676:A:THR:HG23 | 1:669:A:LEU:HA | 5 | 0.21 |
| (2,701) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 7 | 0.21 |
| (2,701) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 7 | 0.21 |
| (2,701) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 7 | 0.21 |
| (2,697) | 1:674:A:ASP:H | 1:677:A:ASN:H | 15 | 0.21 |
| (2,688) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB1 | 5 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,688) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB2 | 5 | 0.21 |
| (2,688) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB3 | 5 | 0.21 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 4 | 0.21 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 10 | 0.21 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 15 | 0.21 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 2 | 0.21 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 5 | 0.21 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 13 | 0.21 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 14 | 0.21 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 14 | 0.21 |
| (2,626) | 1:817:B:ALA:H | 1:816:B:ASN:HB2 | 12 | 0.21 |
| (2,626) | 1:817:B:ALA:H | 1:816:B:ASN:HB3 | 12 | 0.21 |
| (2,618) | 1:797:B:TRP:H | 1:796:B:TRP:HD1 | 5 | 0.21 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD21 | 1 | 0.21 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD22 | 1 | 0.21 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD23 | 1 | 0.21 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD11 | 2 | 0.21 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD12 | 2 | 0.21 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD13 | 2 | 0.21 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD21 | 2 | 0.21 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD22 | 2 | 0.21 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD23 | 2 | 0.21 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD2 | 1 | 0.21 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD3 | 1 | 0.21 |
| (2,587) | 1:783:B:GLU:H | 1:780:B:ARG:HA | 6 | 0.21 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 6 | 0.21 |
| (2,557) | 1:777:B:ILE:HD11 | 1:774:B:LEU:HA | 6 | 0.21 |
| (2,557) | 1:777:B:ILE:HD12 | 1:774:B:LEU:HA | 6 | 0.21 |
| (2,557) | 1:777:B:ILE:HD13 | 1:774:B:LEU:HA | 6 | 0.21 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 11 | 0.21 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH21 | 4 | 0.21 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH22 | 4 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH21 | 4 | 0.21 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH22 | 4 | 0.21 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH21 | 4 | 0.21 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH22 | 4 | 0.21 |
| (2,506) | 1:755:B:LEU:H | 1:756:B:ILE:H | 4 | 0.21 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 13 | 0.21 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 13 | 0.21 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 13 | 0.21 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 13 | 0.21 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 13 | 0.21 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 13 | 0.21 |
| (2,479) | 1:748:B:LEU:H | 1:745:B:SER:HA | 3 | 0.21 |
| (2,473) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD22 | 6 | 0.21 |
| (2,473) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD22 | 6 | 0.21 |
| (2,473) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD22 | 6 | 0.21 |
| (2,463) | 1:746:B:ILE:H | 1:742:B:ARG:HA | 4 | 0.21 |
| (2,432) | 1:709:B:ARG:H | 1:707:B:ARG:H | 8 | 0.21 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 5 | 0.21 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 5 | 0.21 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 5 | 0.21 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD11 | 2 | 0.21 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD12 | 2 | 0.21 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD13 | 2 | 0.21 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD21 | 2 | 0.21 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD22 | 2 | 0.21 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD23 | 2 | 0.21 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD2 | 14 | 0.21 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD3 | 14 | 0.21 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD2 | 14 | 0.21 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD3 | 14 | 0.21 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD2 | 14 | 0.21 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD3 | 14 | 0.21 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB2 | 3 | 0.21 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB3 | 3 | 0.21 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB2 | 3 | 0.21 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB3 | 3 | 0.21 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB2 | 3 | 0.21 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB3 | 3 | 0.21 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 2 | 0.21 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 11 | 0.21 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 11 | 0.21 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 11 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,354) | 1:697:B:ILE:HG21 | 1:700:B:ALA:HB1 | 6 | 0.21 |
| (2,354) | 1:697:B:ILE:HG21 | 1:700:B:ALA:HB2 | 6 | 0.21 |
| (2,354) | 1:697:B:ILE:HG21 | 1:700:B:ALA:HB3 | 6 | 0.21 |
| (2,354) | 1:697:B:ILE:HG22 | 1:700:B:ALA:HB1 | 6 | 0.21 |
| (2,354) | 1:697:B:ILE:HG22 | 1:700:B:ALA:HB2 | 6 | 0.21 |
| (2,354) | 1:697:B:ILE:HG22 | 1:700:B:ALA:HB3 | 6 | 0.21 |
| (2,354) | 1:697:B:ILE:HG23 | 1:700:B:ALA:HB1 | 6 | 0.21 |
| (2,354) | 1:697:B:ILE:HG23 | 1:700:B:ALA:HB2 | 6 | 0.21 |
| (2,354) | 1:697:B:ILE:HG23 | 1:700:B:ALA:HB3 | 6 | 0.21 |
| (2,333) | 1:692:B:LEU:HD11 | 1:696:B:ARG:HH11 | 2 | 0.21 |
| (2,333) | 1:692:B:LEU:HD11 | 1:696:B:ARG:HH12 | 2 | 0.21 |
| (2,333) | 1:692:B:LEU:HD12 | 1:696:B:ARG:HH11 | 15 | 0.21 |
| (2,333) | 1:692:B:LEU:HD12 | 1:696:B:ARG:HH12 | 15 | 0.21 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD11 | 8 | 0.21 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD12 | 8 | 0.21 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD13 | 8 | 0.21 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD11 | 8 | 0.21 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD12 | 8 | 0.21 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD13 | 8 | 0.21 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD11 | 8 | 0.21 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD12 | 8 | 0.21 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD13 | 8 | 0.21 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD11 | 5 | 0.21 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD12 | 5 | 0.21 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD13 | 5 | 0.21 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD21 | 5 | 0.21 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD22 | 5 | 0.21 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD23 | 5 | 0.21 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 1 | 0.21 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 2 | 0.21 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 6 | 0.21 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 13 | 0.21 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 4 | 0.21 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 12 | 0.21 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 4 | 0.21 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 4 | 0.21 |
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD11 | 11 | 0.21 |
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD12 | 11 | 0.21 |
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD13 | 11 | 0.21 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD11 | 11 | 0.21 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD12 | 11 | 0.21 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD13 | 11 | 0.21 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|-----------------------|------------------------|----------|---------------|
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 9 | 0.21 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 9 | 0.21 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 9 | 0.21 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 9 | 0.21 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 1 | 0.21 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 14 | 0.21 |
| (2,162) | 1:794:A:LYS:H | 1:848:A:ARG:HG2 | 13 | 0.21 |
| (2,162) | 1:794:A:LYS:H | 1:848:A:ARG:HG3 | 13 | 0.21 |
| (2,161) | 1:794:A:LYS:H | 1:848:A:ARG:HG2 | 13 | 0.21 |
| (2,161) | 1:794:A:LYS:H | 1:848:A:ARG:HG3 | 13 | 0.21 |
| (2,114) | 1:781:A:ILE:HD11 | 1:743:B:ASP:HA | 4 | 0.21 |
| (2,114) | 1:781:A:ILE:HD12 | 1:743:B:ASP:HA | 4 | 0.21 |
| (2,114) | 1:781:A:ILE:HD13 | 1:743:B:ASP:HA | 4 | 0.21 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD2 | 13 | 0.21 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD3 | 13 | 0.21 |
| (2,37) | 1:692:B:LEU:HD21 | 1:694:A:GLY:H | 10 | 0.21 |
| (2,37) | 1:692:B:LEU:HD22 | 1:694:A:GLY:H | 10 | 0.21 |
| (2,37) | 1:692:B:LEU:HD23 | 1:694:A:GLY:H | 10 | 0.21 |
| (2,13) | 1:666:B:TRP:HE1 | 1:666:A:TRP:HD1 | 8 | 0.21 |
| (1,219) | 1:813:B:SER:O | 1:817:B:ALA:H | 5 | 0.21 |
| (1,197) | 1:802:B:TYR:O | 1:806:B:GLU:H | 9 | 0.21 |
| (1,191) | 1:799:B:LEU:O | 1:803:B:TRP:H | 15 | 0.21 |
| (1,182) | 1:794:B:LYS:O | 1:798:B:ASN:N | 13 | 0.21 |
| (1,133) | 1:813:B:SER:O | 1:817:B:ALA:H | 5 | 0.21 |
| (1,111) | 1:802:B:TYR:O | 1:806:B:GLU:H | 9 | 0.21 |
| (1,105) | 1:799:B:LEU:O | 1:803:B:TRP:H | 15 | 0.21 |
| (1,96) | 1:794:B:LYS:O | 1:798:B:ASN:N | 13 | 0.21 |
| (1,47) | 1:813:B:SER:O | 1:817:B:ALA:H | 5 | 0.21 |
| (1,25) | 1:802:B:TYR:O | 1:806:B:GLU:H | 9 | 0.21 |
| (1,19) | 1:799:B:LEU:O | 1:803:B:TRP:H | 15 | 0.21 |
| (1,10) | 1:794:B:LYS:O | 1:798:B:ASN:N | 13 | 0.21 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 8 | 0.2 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 8 | 0.2 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 13 | 0.2 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 13 | 0.2 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 1 | 0.2 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 1 | 0.2 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 1 | 0.2 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 14 | 0.2 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 14 | 0.2 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 14 | 0.2 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 14 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 14 | 0.2 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 14 | 0.2 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 2 | 0.2 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 7 | 0.2 |
| (2,1414) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 11 | 0.2 |
| (2,1414) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 11 | 0.2 |
| (2,1414) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 11 | 0.2 |
| (2,1402) | 1:777:A:ILE:H | 1:774:A:LEU:HA | 10 | 0.2 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 9 | 0.2 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 9 | 0.2 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 9 | 0.2 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 9 | 0.2 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 9 | 0.2 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 9 | 0.2 |
| (2,1356) | 1:755:A:LEU:H | 1:756:A:ILE:H | 14 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 1 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 1 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 1 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 1 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 1 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 1 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 14 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 14 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 14 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 14 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 14 | 0.2 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 14 | 0.2 |
| (2,1322) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 10 | 0.2 |
| (2,1322) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 10 | 0.2 |
| (2,1322) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 10 | 0.2 |
| (2,1278) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 10 | 0.2 |
| (2,1278) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 10 | 0.2 |
| (2,1278) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 10 | 0.2 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 7 | 0.2 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 7 | 0.2 |
| (2,1223) | 1:701:A:VAL:HG21 | 1:698:A:VAL:HA | 13 | 0.2 |
| (2,1223) | 1:701:A:VAL:HG22 | 1:698:A:VAL:HA | 13 | 0.2 |
| (2,1223) | 1:701:A:VAL:HG23 | 1:698:A:VAL:HA | 13 | 0.2 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 5 | 0.2 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 15 | 0.2 |
| (2,1202) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA2 | 3 | 0.2 |
| (2,1202) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA3 | 3 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1202) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA2 | 3 | 0.2 |
| (2,1202) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA3 | 3 | 0.2 |
| (2,1202) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA2 | 3 | 0.2 |
| (2,1202) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA3 | 3 | 0.2 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 5 | 0.2 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 5 | 0.2 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 5 | 0.2 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 5 | 0.2 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 5 | 0.2 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 5 | 0.2 |
| (2,1190) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG2 | 15 | 0.2 |
| (2,1190) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG3 | 15 | 0.2 |
| (2,1190) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG2 | 15 | 0.2 |
| (2,1190) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG3 | 15 | 0.2 |
| (2,1190) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG2 | 15 | 0.2 |
| (2,1190) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG3 | 15 | 0.2 |
| (2,1183) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH11 | 2 | 0.2 |
| (2,1183) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH12 | 2 | 0.2 |
| (2,1144) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB2 | 8 | 0.2 |
| (2,1144) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB3 | 8 | 0.2 |
| (2,1144) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB2 | 8 | 0.2 |
| (2,1144) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB3 | 8 | 0.2 |
| (2,1144) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB2 | 8 | 0.2 |
| (2,1144) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB3 | 8 | 0.2 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 6 | 0.2 |
| (2,1092) | 1:667:A:ALA:H | 1:664:A:ASP:HA | 8 | 0.2 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 6 | 0.2 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 7 | 0.2 |
| (2,1078) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 8 | 0.2 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 4 | 0.2 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 8 | 0.2 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 8 | 0.2 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 13 | 0.2 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 13 | 0.2 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 1 | 0.2 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 1 | 0.2 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 1 | 0.2 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 14 | 0.2 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 14 | 0.2 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 14 | 0.2 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 14 | 0.2 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 14 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 14 | 0.2 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 2 | 0.2 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 7 | 0.2 |
| (2,989) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 11 | 0.2 |
| (2,989) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 11 | 0.2 |
| (2,989) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 11 | 0.2 |
| (2,977) | 1:777:A:ILE:H | 1:774:A:LEU:HA | 10 | 0.2 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 9 | 0.2 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 9 | 0.2 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 9 | 0.2 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 9 | 0.2 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 9 | 0.2 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 9 | 0.2 |
| (2,931) | 1:755:A:LEU:H | 1:756:A:ILE:H | 14 | 0.2 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 1 | 0.2 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 1 | 0.2 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 1 | 0.2 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 1 | 0.2 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 1 | 0.2 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 1 | 0.2 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 14 | 0.2 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 14 | 0.2 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 14 | 0.2 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 14 | 0.2 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 14 | 0.2 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 14 | 0.2 |
| (2,897) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 10 | 0.2 |
| (2,897) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 10 | 0.2 |
| (2,897) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 10 | 0.2 |
| (2,853) | 1:708:A:VAL:HG11 | 1:705:A:VAL:HA | 10 | 0.2 |
| (2,853) | 1:708:A:VAL:HG12 | 1:705:A:VAL:HA | 10 | 0.2 |
| (2,853) | 1:708:A:VAL:HG13 | 1:705:A:VAL:HA | 10 | 0.2 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 7 | 0.2 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 7 | 0.2 |
| (2,798) | 1:701:A:VAL:HG21 | 1:698:A:VAL:HA | 13 | 0.2 |
| (2,798) | 1:701:A:VAL:HG22 | 1:698:A:VAL:HA | 13 | 0.2 |
| (2,798) | 1:701:A:VAL:HG23 | 1:698:A:VAL:HA | 13 | 0.2 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 5 | 0.2 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 15 | 0.2 |
| (2,777) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA2 | 3 | 0.2 |
| (2,777) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA3 | 3 | 0.2 |
| (2,777) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA2 | 3 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,777) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA3 | 3 | 0.2 |
| (2,777) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA2 | 3 | 0.2 |
| (2,777) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA3 | 3 | 0.2 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 5 | 0.2 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 5 | 0.2 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 5 | 0.2 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 5 | 0.2 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 5 | 0.2 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 5 | 0.2 |
| (2,765) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG2 | 15 | 0.2 |
| (2,765) | 1:693:A:ILE:HG21 | 1:696:A:ARG:HG3 | 15 | 0.2 |
| (2,765) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG2 | 15 | 0.2 |
| (2,765) | 1:693:A:ILE:HG22 | 1:696:A:ARG:HG3 | 15 | 0.2 |
| (2,765) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG2 | 15 | 0.2 |
| (2,765) | 1:693:A:ILE:HG23 | 1:696:A:ARG:HG3 | 15 | 0.2 |
| (2,758) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH11 | 2 | 0.2 |
| (2,758) | 1:692:A:LEU:HD13 | 1:696:A:ARG:HH12 | 2 | 0.2 |
| (2,719) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB2 | 8 | 0.2 |
| (2,719) | 1:682:A:ILE:HG21 | 1:685:A:PHE:HB3 | 8 | 0.2 |
| (2,719) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB2 | 8 | 0.2 |
| (2,719) | 1:682:A:ILE:HG22 | 1:685:A:PHE:HB3 | 8 | 0.2 |
| (2,719) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB2 | 8 | 0.2 |
| (2,719) | 1:682:A:ILE:HG23 | 1:685:A:PHE:HB3 | 8 | 0.2 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 6 | 0.2 |
| (2,667) | 1:667:A:ALA:H | 1:664:A:ASP:HA | 8 | 0.2 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 6 | 0.2 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 7 | 0.2 |
| (2,653) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 8 | 0.2 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 4 | 0.2 |
| (2,629) | 1:835:B:GLY:H | 1:834:B:GLN:HG2 | 7 | 0.2 |
| (2,629) | 1:835:B:GLY:H | 1:834:B:GLN:HG3 | 7 | 0.2 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD11 | 12 | 0.2 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD12 | 12 | 0.2 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD13 | 12 | 0.2 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD21 | 6 | 0.2 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD22 | 6 | 0.2 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD23 | 6 | 0.2 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD2 | 5 | 0.2 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD3 | 5 | 0.2 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 3 | 0.2 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 15 | 0.2 |
| (2,545) | 1:775:B:LEU:HD11 | 1:772:B:ARG:HA | 6 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,545) | 1:775:B:LEU:HD12 | 1:772:B:ARG:HA | 6 | 0.2 |
| (2,545) | 1:775:B:LEU:HD13 | 1:772:B:ARG:HA | 6 | 0.2 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 6 | 0.2 |
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD2 | 11 | 0.2 |
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD3 | 11 | 0.2 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 9 | 0.2 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 9 | 0.2 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 9 | 0.2 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 9 | 0.2 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 9 | 0.2 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 9 | 0.2 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 14 | 0.2 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 14 | 0.2 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 14 | 0.2 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 14 | 0.2 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 14 | 0.2 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 14 | 0.2 |
| (2,518) | 1:763:B:LEU:HD11 | 1:759:B:ASP:HA | 13 | 0.2 |
| (2,518) | 1:763:B:LEU:HD12 | 1:759:B:ASP:HA | 13 | 0.2 |
| (2,518) | 1:763:B:LEU:HD13 | 1:759:B:ASP:HA | 13 | 0.2 |
| (2,502) | 1:755:B:LEU:H | 1:752:B:SER:HA | 2 | 0.2 |
| (2,501) | 1:755:B:LEU:H | 1:751:B:GLY:HA2 | 4 | 0.2 |
| (2,501) | 1:755:B:LEU:H | 1:751:B:GLY:HA3 | 4 | 0.2 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB2 | 4 | 0.2 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB3 | 4 | 0.2 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 7 | 0.2 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 9 | 0.2 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 9 | 0.2 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 15 | 0.2 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 15 | 0.2 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 15 | 0.2 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD11 | 11 | 0.2 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD12 | 11 | 0.2 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD13 | 11 | 0.2 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD21 | 11 | 0.2 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD22 | 11 | 0.2 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD23 | 11 | 0.2 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 3 | 0.2 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 3 | 0.2 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 4 | 0.2 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 4 | 0.2 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB2 | 7 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB3 | 7 | 0.2 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB2 | 7 | 0.2 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB3 | 7 | 0.2 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB2 | 7 | 0.2 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB3 | 7 | 0.2 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB2 | 8 | 0.2 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB3 | 8 | 0.2 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB2 | 8 | 0.2 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB3 | 8 | 0.2 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB2 | 8 | 0.2 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB3 | 8 | 0.2 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB2 | 14 | 0.2 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB3 | 14 | 0.2 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB2 | 14 | 0.2 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB3 | 14 | 0.2 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB2 | 14 | 0.2 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB3 | 14 | 0.2 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD1 | 12 | 0.2 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD2 | 12 | 0.2 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD1 | 12 | 0.2 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD2 | 12 | 0.2 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD1 | 12 | 0.2 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD2 | 12 | 0.2 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD1 | 13 | 0.2 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD2 | 13 | 0.2 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD1 | 13 | 0.2 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD2 | 13 | 0.2 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD1 | 13 | 0.2 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD2 | 13 | 0.2 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 11 | 0.2 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 6 | 0.2 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 6 | 0.2 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 6 | 0.2 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 2 | 0.2 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 2 | 0.2 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 2 | 0.2 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 2 | 0.2 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 2 | 0.2 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 2 | 0.2 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 12 | 0.2 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 12 | 0.2 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 12 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 12 | 0.2 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 12 | 0.2 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 12 | 0.2 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB2 | 4 | 0.2 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB3 | 4 | 0.2 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB2 | 4 | 0.2 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB3 | 4 | 0.2 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB2 | 4 | 0.2 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB3 | 4 | 0.2 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 10 | 0.2 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 10 | 0.2 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 10 | 0.2 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD11 | 2 | 0.2 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD12 | 2 | 0.2 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD13 | 2 | 0.2 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD21 | 2 | 0.2 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD22 | 2 | 0.2 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD23 | 2 | 0.2 |
| (2,259) | 1:670:B:TRP:H | 1:667:B:ALA:HA | 2 | 0.2 |
| (2,253) | 1:669:B:LEU:H | 1:666:B:TRP:HA | 8 | 0.2 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 1 | 0.2 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 4 | 0.2 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 8 | 0.2 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 12 | 0.2 |
| (2,225) | 1:664:B:ASP:H | 1:663:B:LEU:H | 5 | 0.2 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 1 | 0.2 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 15 | 0.2 |
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB1 | 11 | 0.2 |
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB2 | 11 | 0.2 |
| (2,222) | 1:663:B:LEU:HD21 | 1:667:B:ALA:HB3 | 11 | 0.2 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB1 | 11 | 0.2 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB2 | 11 | 0.2 |
| (2,222) | 1:663:B:LEU:HD22 | 1:667:B:ALA:HB3 | 11 | 0.2 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB1 | 11 | 0.2 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB2 | 11 | 0.2 |
| (2,222) | 1:663:B:LEU:HD23 | 1:667:B:ALA:HB3 | 11 | 0.2 |
| (2,219) | 1:663:B:LEU:H | 1:664:B:ASP:H | 5 | 0.2 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 11 | 0.2 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 11 | 0.2 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 15 | 0.2 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 15 | 0.2 |
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD11 | 2 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD12 | 2 | 0.2 |
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD13 | 2 | 0.2 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD11 | 2 | 0.2 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD12 | 2 | 0.2 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD13 | 2 | 0.2 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 6 | 0.2 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 8 | 0.2 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 8 | 0.2 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 8 | 0.2 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 8 | 0.2 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 5 | 0.2 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 5 | 0.2 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD11 | 6 | 0.2 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD12 | 6 | 0.2 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD13 | 6 | 0.2 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD21 | 6 | 0.2 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD22 | 6 | 0.2 |
| (2,156) | 1:792:A:ALA:H | 1:753:B:LEU:HD23 | 6 | 0.2 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB2 | 9 | 0.2 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB3 | 9 | 0.2 |
| (2,126) | 1:785:A:LEU:HD21 | 1:749:B:VAL:HB | 1 | 0.2 |
| (2,126) | 1:785:A:LEU:HD22 | 1:749:B:VAL:HB | 1 | 0.2 |
| (2,126) | 1:785:A:LEU:HD23 | 1:749:B:VAL:HB | 1 | 0.2 |
| (2,123) | 1:785:A:LEU:HD21 | 1:747:B:ARG:HD2 | 10 | 0.2 |
| (2,123) | 1:785:A:LEU:HD21 | 1:747:B:ARG:HD3 | 10 | 0.2 |
| (2,123) | 1:785:A:LEU:HD22 | 1:747:B:ARG:HD2 | 10 | 0.2 |
| (2,123) | 1:785:A:LEU:HD22 | 1:747:B:ARG:HD3 | 10 | 0.2 |
| (2,123) | 1:785:A:LEU:HD23 | 1:747:B:ARG:HD2 | 10 | 0.2 |
| (2,123) | 1:785:A:LEU:HD23 | 1:747:B:ARG:HD3 | 10 | 0.2 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 11 | 0.2 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 11 | 0.2 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 11 | 0.2 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 11 | 0.2 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 11 | 0.2 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 11 | 0.2 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG21 | 2 | 0.2 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG22 | 2 | 0.2 |
| (2,111) | 1:781:A:ILE:H | 1:746:B:ILE:HG23 | 2 | 0.2 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 7 | 0.2 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 7 | 0.2 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 7 | 0.2 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 7 | 0.2 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 7 | 0.2 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 7 | 0.2 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE1 | 12 | 0.2 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE2 | 12 | 0.2 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE1 | 12 | 0.2 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE2 | 12 | 0.2 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE1 | 12 | 0.2 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE2 | 12 | 0.2 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 6 | 0.2 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 6 | 0.2 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 6 | 0.2 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 6 | 0.2 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 6 | 0.2 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 6 | 0.2 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD1 | 3 | 0.2 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD2 | 3 | 0.2 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD1 | 3 | 0.2 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD2 | 3 | 0.2 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD1 | 3 | 0.2 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD2 | 3 | 0.2 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD11 | 3 | 0.2 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD12 | 3 | 0.2 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD13 | 3 | 0.2 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD11 | 8 | 0.2 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD12 | 8 | 0.2 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD13 | 8 | 0.2 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD11 | 8 | 0.2 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD12 | 8 | 0.2 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD13 | 8 | 0.2 |
| (1,247) | 1:837:B:SER:O | 1:841:B:ARG:H | 5 | 0.2 |
| (1,197) | 1:802:B:TYR:O | 1:806:B:GLU:H | 13 | 0.2 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 3 | 0.2 |
| (1,191) | 1:799:B:LEU:O | 1:803:B:TRP:H | 1 | 0.2 |
| (1,161) | 1:837:B:SER:O | 1:841:B:ARG:H | 5 | 0.2 |
| (1,111) | 1:802:B:TYR:O | 1:806:B:GLU:H | 13 | 0.2 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 3 | 0.2 |
| (1,105) | 1:799:B:LEU:O | 1:803:B:TRP:H | 1 | 0.2 |
| (1,75) | 1:837:B:SER:O | 1:841:B:ARG:H | 5 | 0.2 |
| (1,25) | 1:802:B:TYR:O | 1:806:B:GLU:H | 13 | 0.2 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 3 | 0.2 |
| (1,19) | 1:799:B:LEU:O | 1:803:B:TRP:H | 1 | 0.2 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 2 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 2 | 0.19 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 12 | 0.19 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 12 | 0.19 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 15 | 0.19 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 15 | 0.19 |
| (2,1457) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 11 | 0.19 |
| (2,1457) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 11 | 0.19 |
| (2,1457) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 11 | 0.19 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 9 | 0.19 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 9 | 0.19 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 14 | 0.19 |
| (2,1368) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 8 | 0.19 |
| (2,1368) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 8 | 0.19 |
| (2,1368) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 8 | 0.19 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 14 | 0.19 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 14 | 0.19 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 14 | 0.19 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 14 | 0.19 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 14 | 0.19 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 14 | 0.19 |
| (2,1329) | 1:748:A:LEU:H | 1:745:A:SER:HA | 8 | 0.19 |
| (2,1322) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 3 | 0.19 |
| (2,1322) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 3 | 0.19 |
| (2,1322) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 3 | 0.19 |
| (2,1320) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HA | 6 | 0.19 |
| (2,1320) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HA | 6 | 0.19 |
| (2,1320) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HA | 6 | 0.19 |
| (2,1315) | 1:746:A:ILE:H | 1:743:A:ASP:HB2 | 15 | 0.19 |
| (2,1315) | 1:746:A:ILE:H | 1:743:A:ASP:HB3 | 15 | 0.19 |
| (2,1294) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 13 | 0.19 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 11 | 0.19 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 11 | 0.19 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 11 | 0.19 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 11 | 0.19 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 11 | 0.19 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 11 | 0.19 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 4 | 0.19 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 4 | 0.19 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 9 | 0.19 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 9 | 0.19 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 9 | 0.19 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 9 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 9 | 0.19 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 9 | 0.19 |
| (2,1246) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 12 | 0.19 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 2 | 0.19 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 13 | 0.19 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 15 | 0.19 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 15 | 0.19 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 15 | 0.19 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 15 | 0.19 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 15 | 0.19 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 15 | 0.19 |
| (2,1206) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 5 | 0.19 |
| (2,1206) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 5 | 0.19 |
| (2,1206) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 5 | 0.19 |
| (2,1205) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 3 | 0.19 |
| (2,1205) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 3 | 0.19 |
| (2,1205) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 3 | 0.19 |
| (2,1195) | 1:695:A:LEU:HD21 | 1:698:A:VAL:HB | 8 | 0.19 |
| (2,1195) | 1:695:A:LEU:HD22 | 1:698:A:VAL:HB | 8 | 0.19 |
| (2,1195) | 1:695:A:LEU:HD23 | 1:698:A:VAL:HB | 8 | 0.19 |
| (2,1171) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD11 | 14 | 0.19 |
| (2,1171) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD12 | 14 | 0.19 |
| (2,1171) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD13 | 14 | 0.19 |
| (2,1171) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD11 | 14 | 0.19 |
| (2,1171) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD12 | 14 | 0.19 |
| (2,1171) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD13 | 14 | 0.19 |
| (2,1171) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD11 | 14 | 0.19 |
| (2,1171) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD12 | 14 | 0.19 |
| (2,1171) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD13 | 14 | 0.19 |
| (2,1169) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD1 | 3 | 0.19 |
| (2,1169) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD2 | 3 | 0.19 |
| (2,1169) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD1 | 3 | 0.19 |
| (2,1169) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD2 | 3 | 0.19 |
| (2,1169) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD1 | 3 | 0.19 |
| (2,1169) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD2 | 3 | 0.19 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 10 | 0.19 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 10 | 0.19 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 10 | 0.19 |
| (2,1143) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 1 | 0.19 |
| (2,1143) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 1 | 0.19 |
| (2,1143) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 1 | 0.19 |
| (2,1136) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 2 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 1 | 0.19 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 1 | 0.19 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 1 | 0.19 |
| (2,1122) | 1:674:A:ASP:H | 1:677:A:ASN:H | 11 | 0.19 |
| (2,1118) | 1:672:A:TRP:H | 1:673:A:PHE:H | 1 | 0.19 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 2 | 0.19 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 12 | 0.19 |
| (2,1075) | 1:664:A:ASP:H | 1:663:A:LEU:H | 14 | 0.19 |
| (2,1069) | 1:663:A:LEU:H | 1:664:A:ASP:H | 14 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 7 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 7 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 7 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 7 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 7 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 7 | 0.19 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 2 | 0.19 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 2 | 0.19 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 12 | 0.19 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 12 | 0.19 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 15 | 0.19 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 15 | 0.19 |
| (2,1032) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 11 | 0.19 |
| (2,1032) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 11 | 0.19 |
| (2,1032) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 11 | 0.19 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 9 | 0.19 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 9 | 0.19 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 14 | 0.19 |
| (2,943) | 1:763:A:LEU:HD11 | 1:759:A:ASP:HA | 8 | 0.19 |
| (2,943) | 1:763:A:LEU:HD12 | 1:759:A:ASP:HA | 8 | 0.19 |
| (2,943) | 1:763:A:LEU:HD13 | 1:759:A:ASP:HA | 8 | 0.19 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 14 | 0.19 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 14 | 0.19 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 14 | 0.19 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 14 | 0.19 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 14 | 0.19 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 14 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,904) | 1:748:A:LEU:H | 1:745:A:SER:HA | 8 | 0.19 |
| (2,897) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 3 | 0.19 |
| (2,897) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 3 | 0.19 |
| (2,897) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 3 | 0.19 |
| (2,895) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HA | 6 | 0.19 |
| (2,895) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HA | 6 | 0.19 |
| (2,895) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HA | 6 | 0.19 |
| (2,890) | 1:746:A:ILE:H | 1:743:A:ASP:HB2 | 15 | 0.19 |
| (2,890) | 1:746:A:ILE:H | 1:743:A:ASP:HB3 | 15 | 0.19 |
| (2,869) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 13 | 0.19 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 11 | 0.19 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 11 | 0.19 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 11 | 0.19 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 11 | 0.19 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 11 | 0.19 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 11 | 0.19 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 4 | 0.19 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 4 | 0.19 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 9 | 0.19 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 9 | 0.19 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 9 | 0.19 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 9 | 0.19 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 9 | 0.19 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 9 | 0.19 |
| (2,821) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 12 | 0.19 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 2 | 0.19 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 13 | 0.19 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 15 | 0.19 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 15 | 0.19 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 15 | 0.19 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 15 | 0.19 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 15 | 0.19 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 15 | 0.19 |
| (2,781) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 5 | 0.19 |
| (2,781) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 5 | 0.19 |
| (2,781) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 5 | 0.19 |
| (2,780) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 3 | 0.19 |
| (2,780) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 3 | 0.19 |
| (2,780) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 3 | 0.19 |
| (2,770) | 1:695:A:LEU:HD21 | 1:698:A:VAL:HB | 8 | 0.19 |
| (2,770) | 1:695:A:LEU:HD22 | 1:698:A:VAL:HB | 8 | 0.19 |
| (2,770) | 1:695:A:LEU:HD23 | 1:698:A:VAL:HB | 8 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,746) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD11 | 14 | 0.19 |
| (2,746) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD12 | 14 | 0.19 |
| (2,746) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD13 | 14 | 0.19 |
| (2,746) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD11 | 14 | 0.19 |
| (2,746) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD12 | 14 | 0.19 |
| (2,746) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD13 | 14 | 0.19 |
| (2,746) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD11 | 14 | 0.19 |
| (2,746) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD12 | 14 | 0.19 |
| (2,746) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD13 | 14 | 0.19 |
| (2,744) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD1 | 3 | 0.19 |
| (2,744) | 1:686:A:ILE:HD11 | 1:685:A:PHE:HD2 | 3 | 0.19 |
| (2,744) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD1 | 3 | 0.19 |
| (2,744) | 1:686:A:ILE:HD12 | 1:685:A:PHE:HD2 | 3 | 0.19 |
| (2,744) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD1 | 3 | 0.19 |
| (2,744) | 1:686:A:ILE:HD13 | 1:685:A:PHE:HD2 | 3 | 0.19 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 10 | 0.19 |
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 10 | 0.19 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 10 | 0.19 |
| (2,718) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 1 | 0.19 |
| (2,718) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 1 | 0.19 |
| (2,718) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 1 | 0.19 |
| (2,711) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 2 | 0.19 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 1 | 0.19 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 1 | 0.19 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 1 | 0.19 |
| (2,697) | 1:674:A:ASP:H | 1:677:A:ASN:H | 11 | 0.19 |
| (2,693) | 1:672:A:TRP:H | 1:673:A:PHE:H | 1 | 0.19 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 2 | 0.19 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 12 | 0.19 |
| (2,650) | 1:664:A:ASP:H | 1:663:A:LEU:H | 14 | 0.19 |
| (2,644) | 1:663:A:LEU:H | 1:664:A:ASP:H | 14 | 0.19 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 7 | 0.19 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 7 | 0.19 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 7 | 0.19 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 7 | 0.19 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 7 | 0.19 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 7 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 7 | 0.19 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB2 | 1 | 0.19 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB3 | 1 | 0.19 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB2 | 10 | 0.19 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB3 | 10 | 0.19 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB2 | 11 | 0.19 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB3 | 11 | 0.19 |
| (2,620) | 1:802:B:TYR:H | 1:802:B:TYR:HB3 | 6 | 0.19 |
| (2,601) | 1:785:B:LEU:H | 1:782:B:VAL:HA | 12 | 0.19 |
| (2,593) | 1:784:B:LEU:H | 1:781:B:ILE:HA | 3 | 0.19 |
| (2,559) | 1:778:B:VAL:H | 1:775:B:LEU:HA | 2 | 0.19 |
| (2,545) | 1:775:B:LEU:HD11 | 1:772:B:ARG:HA | 7 | 0.19 |
| (2,545) | 1:775:B:LEU:HD12 | 1:772:B:ARG:HA | 7 | 0.19 |
| (2,545) | 1:775:B:LEU:HD13 | 1:772:B:ARG:HA | 7 | 0.19 |
| (2,540) | 1:775:B:LEU:H | 1:772:B:ARG:HA | 7 | 0.19 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH21 | 9 | 0.19 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH22 | 9 | 0.19 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH21 | 9 | 0.19 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH22 | 9 | 0.19 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH21 | 9 | 0.19 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH22 | 9 | 0.19 |
| (2,522) | 1:764:B:SER:H | 1:761:B:ARG:HA | 5 | 0.19 |
| (2,521) | 1:763:B:LEU:HD21 | 1:771:B:LEU:HB2 | 12 | 0.19 |
| (2,521) | 1:763:B:LEU:HD21 | 1:771:B:LEU:HB3 | 12 | 0.19 |
| (2,521) | 1:763:B:LEU:HD22 | 1:771:B:LEU:HB2 | 12 | 0.19 |
| (2,521) | 1:763:B:LEU:HD22 | 1:771:B:LEU:HB3 | 12 | 0.19 |
| (2,521) | 1:763:B:LEU:HD23 | 1:771:B:LEU:HB2 | 12 | 0.19 |
| (2,521) | 1:763:B:LEU:HD23 | 1:771:B:LEU:HB3 | 12 | 0.19 |
| (2,519) | 1:763:B:LEU:HD11 | 1:764:B:SER:HG | 1 | 0.19 |
| (2,519) | 1:763:B:LEU:HD12 | 1:764:B:SER:HG | 1 | 0.19 |
| (2,519) | 1:763:B:LEU:HD13 | 1:764:B:SER:HG | 1 | 0.19 |
| (2,502) | 1:755:B:LEU:H | 1:752:B:SER:HA | 4 | 0.19 |
| (2,502) | 1:755:B:LEU:H | 1:752:B:SER:HA | 8 | 0.19 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 8 | 0.19 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 8 | 0.19 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 8 | 0.19 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 8 | 0.19 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 8 | 0.19 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 8 | 0.19 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 14 | 0.19 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 14 | 0.19 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 14 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 14 | 0.19 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 14 | 0.19 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 14 | 0.19 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB2 | 6 | 0.19 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB3 | 6 | 0.19 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 15 | 0.19 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 15 | 0.19 |
| (2,396) | 1:705:B:VAL:H | 1:702:B:LEU:HA | 12 | 0.19 |
| (2,390) | 1:704:B:LEU:H | 1:704:B:LEU:HB3 | 7 | 0.19 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD1 | 10 | 0.19 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD2 | 10 | 0.19 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD1 | 10 | 0.19 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD2 | 10 | 0.19 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD1 | 10 | 0.19 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD2 | 10 | 0.19 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 8 | 0.19 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 4 | 0.19 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 4 | 0.19 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 4 | 0.19 |
| (2,352) | 1:697:B:ILE:HG21 | 1:694:B:GLY:HA2 | 10 | 0.19 |
| (2,352) | 1:697:B:ILE:HG21 | 1:694:B:GLY:HA3 | 10 | 0.19 |
| (2,352) | 1:697:B:ILE:HG22 | 1:694:B:GLY:HA2 | 10 | 0.19 |
| (2,352) | 1:697:B:ILE:HG22 | 1:694:B:GLY:HA3 | 10 | 0.19 |
| (2,352) | 1:697:B:ILE:HG23 | 1:694:B:GLY:HA2 | 10 | 0.19 |
| (2,352) | 1:697:B:ILE:HG23 | 1:694:B:GLY:HA3 | 10 | 0.19 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 6 | 0.19 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 6 | 0.19 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 6 | 0.19 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 6 | 0.19 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 6 | 0.19 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 6 | 0.19 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 9 | 0.19 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 9 | 0.19 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 9 | 0.19 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 9 | 0.19 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 9 | 0.19 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 9 | 0.19 |
| (2,330) | 1:692:B:LEU:HD11 | 1:689:B:VAL:HA | 11 | 0.19 |
| (2,330) | 1:692:B:LEU:HD12 | 1:689:B:VAL:HA | 11 | 0.19 |
| (2,330) | 1:692:B:LEU:HD13 | 1:689:B:VAL:HA | 11 | 0.19 |
| (2,286) | 1:678:B:TRP:HE1 | 1:682:B:ILE:H | 13 | 0.19 |
| (2,280) | 1:676:B:THR:HG21 | 1:681:B:TYR:HH | 2 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,280) | 1:676:B:THR:HG22 | 1:681:B:TYR:HH | 2 | 0.19 |
| (2,280) | 1:676:B:THR:HG23 | 1:681:B:TYR:HH | 2 | 0.19 |
| (2,272) | 1:674:B:ASP:H | 1:677:B:ASN:H | 3 | 0.19 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD11 | 5 | 0.19 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD12 | 5 | 0.19 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD13 | 5 | 0.19 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD21 | 5 | 0.19 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD22 | 5 | 0.19 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD23 | 5 | 0.19 |
| (2,245) | 1:667:B:ALA:H | 1:666:B:TRP:HD1 | 6 | 0.19 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 14 | 0.19 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 5 | 0.19 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 7 | 0.19 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 9 | 0.19 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 10 | 0.19 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 14 | 0.19 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 13 | 0.19 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 15 | 0.19 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 15 | 0.19 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 15 | 0.19 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 15 | 0.19 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 7 | 0.19 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 7 | 0.19 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 7 | 0.19 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 7 | 0.19 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 7 | 0.19 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 7 | 0.19 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 7 | 0.19 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 7 | 0.19 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 7 | 0.19 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 7 | 0.19 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG12 | 13 | 0.19 |
| (2,193) | 1:817:B:ALA:H | 1:830:B:ILE:HG13 | 13 | 0.19 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 1 | 0.19 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 1 | 0.19 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 8 | 0.19 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 8 | 0.19 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 5 | 0.19 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 5 | 0.19 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 5 | 0.19 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 5 | 0.19 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 2 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 2 | 0.19 |
| (2,150) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD11 | 5 | 0.19 |
| (2,150) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD12 | 5 | 0.19 |
| (2,150) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD13 | 5 | 0.19 |
| (2,150) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD21 | 5 | 0.19 |
| (2,150) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD22 | 5 | 0.19 |
| (2,150) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD23 | 5 | 0.19 |
| (2,149) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD11 | 5 | 0.19 |
| (2,149) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD12 | 5 | 0.19 |
| (2,149) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD13 | 5 | 0.19 |
| (2,149) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD21 | 5 | 0.19 |
| (2,149) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD22 | 5 | 0.19 |
| (2,149) | 1:790:A:TRP:HE1 | 1:851:A:LEU:HD23 | 5 | 0.19 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB2 | 4 | 0.19 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB3 | 4 | 0.19 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB2 | 9 | 0.19 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB3 | 9 | 0.19 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE1 | 6 | 0.19 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE2 | 6 | 0.19 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE1 | 6 | 0.19 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE2 | 6 | 0.19 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE1 | 6 | 0.19 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE2 | 6 | 0.19 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE1 | 7 | 0.19 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE2 | 7 | 0.19 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE1 | 7 | 0.19 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE2 | 7 | 0.19 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE1 | 7 | 0.19 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE2 | 7 | 0.19 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE1 | 15 | 0.19 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE2 | 15 | 0.19 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE1 | 15 | 0.19 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE2 | 15 | 0.19 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE1 | 15 | 0.19 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE2 | 15 | 0.19 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB2 | 3 | 0.19 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB3 | 3 | 0.19 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB2 | 3 | 0.19 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB3 | 3 | 0.19 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB2 | 3 | 0.19 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB3 | 3 | 0.19 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD11 | 4 | 0.19 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD12 | 4 | 0.19 |
| (2,53) | 1:696:A:ARG:H | 1:693:A:ILE:HD13 | 4 | 0.19 |
| (2,13) | 1:666:B:TRP:HE1 | 1:666:A:TRP:HD1 | 15 | 0.19 |
| (1,196) | 1:801:B:GLN:O | 1:805:B:GLN:N | 13 | 0.19 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 11 | 0.19 |
| (1,193) | 1:800:B:LEU:O | 1:804:B:SER:H | 9 | 0.19 |
| (1,191) | 1:799:B:LEU:O | 1:803:B:TRP:H | 3 | 0.19 |
| (1,182) | 1:794:B:LYS:O | 1:798:B:ASN:N | 12 | 0.19 |
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 5 | 0.19 |
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 7 | 0.19 |
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 15 | 0.19 |
| (1,110) | 1:801:B:GLN:O | 1:805:B:GLN:N | 13 | 0.19 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 11 | 0.19 |
| (1,107) | 1:800:B:LEU:O | 1:804:B:SER:H | 9 | 0.19 |
| (1,105) | 1:799:B:LEU:O | 1:803:B:TRP:H | 3 | 0.19 |
| (1,96) | 1:794:B:LYS:O | 1:798:B:ASN:N | 12 | 0.19 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 5 | 0.19 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 7 | 0.19 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 15 | 0.19 |
| (1,24) | 1:801:B:GLN:O | 1:805:B:GLN:N | 13 | 0.19 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 11 | 0.19 |
| (1,21) | 1:800:B:LEU:O | 1:804:B:SER:H | 9 | 0.19 |
| (1,19) | 1:799:B:LEU:O | 1:803:B:TRP:H | 3 | 0.19 |
| (1,10) | 1:794:B:LYS:O | 1:798:B:ASN:N | 12 | 0.19 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 5 | 0.19 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 7 | 0.19 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 15 | 0.19 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 8 | 0.18 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 8 | 0.18 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 12 | 0.18 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 12 | 0.18 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 12 | 0.18 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 12 | 0.18 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 12 | 0.18 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 12 | 0.18 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 3 | 0.18 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 3 | 0.18 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 3 | 0.18 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 7 | 0.18 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 7 | 0.18 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 7 | 0.18 |
| (2,1451) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 13 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1443) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 6 | 0.18 |
| (2,1443) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 13 | 0.18 |
| (2,1425) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 7 | 0.18 |
| (2,1414) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 8 | 0.18 |
| (2,1414) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 8 | 0.18 |
| (2,1414) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 8 | 0.18 |
| (2,1409) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 14 | 0.18 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 8 | 0.18 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 8 | 0.18 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 8 | 0.18 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 8 | 0.18 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 8 | 0.18 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 8 | 0.18 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 9 | 0.18 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 9 | 0.18 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 10 | 0.18 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 10 | 0.18 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 10 | 0.18 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 10 | 0.18 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 10 | 0.18 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 10 | 0.18 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 3 | 0.18 |
| (2,1328) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 3 | 0.18 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 5 | 0.18 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 7 | 0.18 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 14 | 0.18 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 5 | 0.18 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 5 | 0.18 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG21 | 7 | 0.18 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG22 | 7 | 0.18 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG23 | 7 | 0.18 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG21 | 7 | 0.18 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG22 | 7 | 0.18 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG23 | 7 | 0.18 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG21 | 7 | 0.18 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG22 | 7 | 0.18 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG23 | 7 | 0.18 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 7 | 0.18 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 1 | 0.18 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 3 | 0.18 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 5 | 0.18 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 6 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 8 | 0.18 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 9 | 0.18 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 10 | 0.18 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 11 | 0.18 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 12 | 0.18 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 15 | 0.18 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 15 | 0.18 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 15 | 0.18 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 15 | 0.18 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 15 | 0.18 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 15 | 0.18 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 15 | 0.18 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 15 | 0.18 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 15 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA2 | 6 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA3 | 6 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA2 | 6 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA3 | 6 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA2 | 6 | 0.18 |
| (2,1202) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA3 | 6 | 0.18 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 9 | 0.18 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 9 | 0.18 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 9 | 0.18 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 9 | 0.18 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 9 | 0.18 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 9 | 0.18 |
| (2,1188) | 1:693:A:ILE:HG21 | 1:693:A:ILE:H | 6 | 0.18 |
| (2,1188) | 1:693:A:ILE:HG22 | 1:693:A:ILE:H | 6 | 0.18 |
| (2,1188) | 1:693:A:ILE:HG23 | 1:693:A:ILE:H | 6 | 0.18 |
| (2,1176) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD1 | 3 | 0.18 |
| (2,1176) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD2 | 3 | 0.18 |
| (2,1176) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD1 | 3 | 0.18 |
| (2,1176) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD2 | 3 | 0.18 |
| (2,1176) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD1 | 3 | 0.18 |
| (2,1176) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD2 | 3 | 0.18 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 5 | 0.18 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 5 | 0.18 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 5 | 0.18 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD11 | 5 | 0.18 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD12 | 5 | 0.18 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD13 | 5 | 0.18 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD11 | 9 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD12 | 9 | 0.18 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD13 | 9 | 0.18 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD21 | 9 | 0.18 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD22 | 9 | 0.18 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD23 | 9 | 0.18 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 14 | 0.18 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 15 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 9 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 9 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 9 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 9 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 9 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 9 | 0.18 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 8 | 0.18 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 8 | 0.18 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 12 | 0.18 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 12 | 0.18 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 12 | 0.18 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 12 | 0.18 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 12 | 0.18 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 12 | 0.18 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 3 | 0.18 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 3 | 0.18 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 3 | 0.18 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 7 | 0.18 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 7 | 0.18 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 7 | 0.18 |
| (2,1026) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 13 | 0.18 |
| (2,1018) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 6 | 0.18 |
| (2,1018) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 13 | 0.18 |
| (2,1000) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 7 | 0.18 |
| (2,989) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 8 | 0.18 |
| (2,989) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 8 | 0.18 |
| (2,989) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 8 | 0.18 |
| (2,984) | 1:778:A:VAL:H | 1:775:A:LEU:HA | 14 | 0.18 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 8 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 8 | 0.18 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 8 | 0.18 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 8 | 0.18 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 8 | 0.18 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 8 | 0.18 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 9 | 0.18 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 9 | 0.18 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 10 | 0.18 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 10 | 0.18 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 10 | 0.18 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 10 | 0.18 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 10 | 0.18 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 10 | 0.18 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD2 | 3 | 0.18 |
| (2,903) | 1:748:A:LEU:H | 1:744:A:ARG:HD3 | 3 | 0.18 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 5 | 0.18 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 7 | 0.18 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 14 | 0.18 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 5 | 0.18 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 5 | 0.18 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG21 | 7 | 0.18 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG22 | 7 | 0.18 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG23 | 7 | 0.18 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG21 | 7 | 0.18 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG22 | 7 | 0.18 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG23 | 7 | 0.18 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG21 | 7 | 0.18 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG22 | 7 | 0.18 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG23 | 7 | 0.18 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 7 | 0.18 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 1 | 0.18 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 3 | 0.18 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 5 | 0.18 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 6 | 0.18 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 8 | 0.18 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 9 | 0.18 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 10 | 0.18 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 11 | 0.18 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 12 | 0.18 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 15 | 0.18 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 15 | 0.18 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 15 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 15 | 0.18 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 15 | 0.18 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 15 | 0.18 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 15 | 0.18 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 15 | 0.18 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 15 | 0.18 |
| (2,777) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA2 | 6 | 0.18 |
| (2,777) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA3 | 6 | 0.18 |
| (2,777) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA2 | 6 | 0.18 |
| (2,777) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA3 | 6 | 0.18 |
| (2,777) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA2 | 6 | 0.18 |
| (2,777) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA3 | 6 | 0.18 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 9 | 0.18 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 9 | 0.18 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 9 | 0.18 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 9 | 0.18 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 9 | 0.18 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 9 | 0.18 |
| (2,763) | 1:693:A:ILE:HG21 | 1:693:A:ILE:H | 6 | 0.18 |
| (2,763) | 1:693:A:ILE:HG22 | 1:693:A:ILE:H | 6 | 0.18 |
| (2,763) | 1:693:A:ILE:HG23 | 1:693:A:ILE:H | 6 | 0.18 |
| (2,751) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD1 | 3 | 0.18 |
| (2,751) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HD2 | 3 | 0.18 |
| (2,751) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD1 | 3 | 0.18 |
| (2,751) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HD2 | 3 | 0.18 |
| (2,751) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD1 | 3 | 0.18 |
| (2,751) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HD2 | 3 | 0.18 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 5 | 0.18 |
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 5 | 0.18 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 5 | 0.18 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD11 | 5 | 0.18 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD12 | 5 | 0.18 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD13 | 5 | 0.18 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD11 | 9 | 0.18 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD12 | 9 | 0.18 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD13 | 9 | 0.18 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD21 | 9 | 0.18 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD22 | 9 | 0.18 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD23 | 9 | 0.18 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 14 | 0.18 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 15 | 0.18 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 9 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 9 | 0.18 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 9 | 0.18 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 9 | 0.18 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 9 | 0.18 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 9 | 0.18 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 9 | 0.18 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG11 | 11 | 0.18 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG12 | 11 | 0.18 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG13 | 11 | 0.18 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG21 | 11 | 0.18 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG22 | 11 | 0.18 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG23 | 11 | 0.18 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB2 | 13 | 0.18 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB3 | 13 | 0.18 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 3 | 0.18 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 3 | 0.18 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 3 | 0.18 |
| (2,615) | 1:796:B:TRP:HE1 | 1:796:B:TRP:H | 11 | 0.18 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 5 | 0.18 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 8 | 0.18 |
| (2,545) | 1:775:B:LEU:HD11 | 1:772:B:ARG:HA | 4 | 0.18 |
| (2,545) | 1:775:B:LEU:HD12 | 1:772:B:ARG:HA | 4 | 0.18 |
| (2,545) | 1:775:B:LEU:HD13 | 1:772:B:ARG:HA | 4 | 0.18 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH21 | 3 | 0.18 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH22 | 3 | 0.18 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH21 | 3 | 0.18 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH22 | 3 | 0.18 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH21 | 3 | 0.18 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH22 | 3 | 0.18 |
| (2,522) | 1:764:B:SER:H | 1:761:B:ARG:HA | 6 | 0.18 |
| (2,420) | 1:707:B:ARG:H | 1:707:B:ARG:HG2 | 11 | 0.18 |
| (2,420) | 1:707:B:ARG:H | 1:707:B:ARG:HG3 | 11 | 0.18 |
| (2,405) | 1:705:B:VAL:HG21 | 1:702:B:LEU:HG | 2 | 0.18 |
| (2,405) | 1:705:B:VAL:HG22 | 1:702:B:LEU:HG | 2 | 0.18 |
| (2,405) | 1:705:B:VAL:HG23 | 1:702:B:LEU:HG | 2 | 0.18 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB2 | 12 | 0.18 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB3 | 12 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB2 | 12 | 0.18 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB3 | 12 | 0.18 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB2 | 12 | 0.18 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB3 | 12 | 0.18 |
| (2,369) | 1:701:B:VAL:H | 1:698:B:VAL:HA | 6 | 0.18 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 4 | 0.18 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 5 | 0.18 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 9 | 0.18 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 10 | 0.18 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 11 | 0.18 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 13 | 0.18 |
| (2,357) | 1:698:B:VAL:HG11 | 1:699:B:PHE:HD1 | 3 | 0.18 |
| (2,357) | 1:698:B:VAL:HG11 | 1:699:B:PHE:HD2 | 3 | 0.18 |
| (2,357) | 1:698:B:VAL:HG12 | 1:699:B:PHE:HD1 | 3 | 0.18 |
| (2,357) | 1:698:B:VAL:HG12 | 1:699:B:PHE:HD2 | 3 | 0.18 |
| (2,357) | 1:698:B:VAL:HG13 | 1:699:B:PHE:HD1 | 3 | 0.18 |
| (2,357) | 1:698:B:VAL:HG13 | 1:699:B:PHE:HD2 | 3 | 0.18 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 1 | 0.18 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 1 | 0.18 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 1 | 0.18 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 14 | 0.18 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 14 | 0.18 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 14 | 0.18 |
| (2,340) | 1:693:B:ILE:HG21 | 1:696:B:ARG:HG2 | 11 | 0.18 |
| (2,340) | 1:693:B:ILE:HG21 | 1:696:B:ARG:HG3 | 11 | 0.18 |
| (2,340) | 1:693:B:ILE:HG22 | 1:696:B:ARG:HG2 | 11 | 0.18 |
| (2,340) | 1:693:B:ILE:HG22 | 1:696:B:ARG:HG3 | 11 | 0.18 |
| (2,340) | 1:693:B:ILE:HG23 | 1:696:B:ARG:HG2 | 11 | 0.18 |
| (2,340) | 1:693:B:ILE:HG23 | 1:696:B:ARG:HG3 | 11 | 0.18 |
| (2,340) | 1:693:B:ILE:HG21 | 1:696:B:ARG:HG2 | 14 | 0.18 |
| (2,340) | 1:693:B:ILE:HG21 | 1:696:B:ARG:HG3 | 14 | 0.18 |
| (2,340) | 1:693:B:ILE:HG22 | 1:696:B:ARG:HG2 | 14 | 0.18 |
| (2,340) | 1:693:B:ILE:HG22 | 1:696:B:ARG:HG3 | 14 | 0.18 |
| (2,340) | 1:693:B:ILE:HG23 | 1:696:B:ARG:HG2 | 14 | 0.18 |
| (2,340) | 1:693:B:ILE:HG23 | 1:696:B:ARG:HG3 | 14 | 0.18 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD11 | 4 | 0.18 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD12 | 4 | 0.18 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD13 | 4 | 0.18 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD11 | 4 | 0.18 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD12 | 4 | 0.18 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD13 | 4 | 0.18 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD11 | 4 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD12 | 4 | 0.18 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD13 | 4 | 0.18 |
| (2,292) | 1:681:B:TYR:H | 1:682:B:ILE:H | 13 | 0.18 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD11 | 15 | 0.18 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD12 | 15 | 0.18 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD13 | 15 | 0.18 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD21 | 15 | 0.18 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD22 | 15 | 0.18 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD23 | 15 | 0.18 |
| (2,272) | 1:674:B:ASP:H | 1:677:B:ASN:H | 11 | 0.18 |
| (2,245) | 1:667:B:ALA:H | 1:666:B:TRP:HD1 | 2 | 0.18 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 13 | 0.18 |
| (2,225) | 1:664:B:ASP:H | 1:663:B:LEU:H | 2 | 0.18 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 2 | 0.18 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 5 | 0.18 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 7 | 0.18 |
| (2,219) | 1:663:B:LEU:H | 1:664:B:ASP:H | 2 | 0.18 |
| (2,177) | 1:803:A:TRP:HE1 | 1:764:B:SER:HG | 5 | 0.18 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 15 | 0.18 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 15 | 0.18 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 15 | 0.18 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 15 | 0.18 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 4 | 0.18 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 4 | 0.18 |
| (2,153) | 1:792:A:ALA:H | 1:752:B:SER:HB2 | 1 | 0.18 |
| (2,153) | 1:792:A:ALA:H | 1:752:B:SER:HB3 | 1 | 0.18 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG12 | 5 | 0.18 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG13 | 5 | 0.18 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG12 | 14 | 0.18 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG13 | 14 | 0.18 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD1 | 7 | 0.18 |
| (2,132) | 1:756:B:ILE:H | 1:795:A:TYR:HD2 | 7 | 0.18 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD2 | 12 | 0.18 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD3 | 12 | 0.18 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD2 | 12 | 0.18 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD3 | 12 | 0.18 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD2 | 12 | 0.18 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD3 | 12 | 0.18 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB2 | 3 | 0.18 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB3 | 3 | 0.18 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB2 | 8 | 0.18 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB3 | 8 | 0.18 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,81) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HA | 13 | 0.18 |
| (2,81) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HA | 13 | 0.18 |
| (2,81) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HA | 13 | 0.18 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE1 | 9 | 0.18 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE2 | 9 | 0.18 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE1 | 9 | 0.18 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE2 | 9 | 0.18 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE1 | 9 | 0.18 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE2 | 9 | 0.18 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB2 | 9 | 0.18 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB3 | 9 | 0.18 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB2 | 9 | 0.18 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB3 | 9 | 0.18 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB2 | 9 | 0.18 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB3 | 9 | 0.18 |
| (2,55) | 1:696:B:ARG:HE | 1:694:A:GLY:HA2 | 1 | 0.18 |
| (2,55) | 1:696:B:ARG:HE | 1:694:A:GLY:HA3 | 1 | 0.18 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD11 | 11 | 0.18 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD12 | 11 | 0.18 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD13 | 11 | 0.18 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 6 | 0.18 |
| (1,192) | 1:799:B:LEU:O | 1:803:B:TRP:N | 4 | 0.18 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 6 | 0.18 |
| (1,106) | 1:799:B:LEU:O | 1:803:B:TRP:N | 4 | 0.18 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 6 | 0.18 |
| (1,20) | 1:799:B:LEU:O | 1:803:B:TRP:N | 4 | 0.18 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 4 | 0.17 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 4 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 10 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 10 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 10 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 10 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 10 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 10 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 14 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 14 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 14 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 14 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 14 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 14 | 0.17 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD11 | 1 | 0.17 |
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD12 | 1 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1477) | 1:819:A:ALA:H | 1:820:A:ILE:HD13 | 1 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 2 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 2 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 2 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 2 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 2 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 2 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 8 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 8 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 8 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 8 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 8 | 0.17 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 8 | 0.17 |
| (2,1457) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 14 | 0.17 |
| (2,1457) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 14 | 0.17 |
| (2,1457) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 14 | 0.17 |
| (2,1436) | 1:782:A:VAL:HG21 | 1:779:A:THR:HA | 4 | 0.17 |
| (2,1436) | 1:782:A:VAL:HG22 | 1:779:A:THR:HA | 4 | 0.17 |
| (2,1436) | 1:782:A:VAL:HG23 | 1:779:A:THR:HA | 4 | 0.17 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 12 | 0.17 |
| (2,1430) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 12 | 0.17 |
| (2,1430) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 12 | 0.17 |
| (2,1430) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 12 | 0.17 |
| (2,1430) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 14 | 0.17 |
| (2,1430) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 14 | 0.17 |
| (2,1430) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 14 | 0.17 |
| (2,1402) | 1:777:A:ILE:H | 1:774:A:LEU:HA | 1 | 0.17 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 10 | 0.17 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 10 | 0.17 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 10 | 0.17 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 10 | 0.17 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 10 | 0.17 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 10 | 0.17 |
| (2,1377) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH21 | 6 | 0.17 |
| (2,1377) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH22 | 6 | 0.17 |
| (2,1377) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH21 | 6 | 0.17 |
| (2,1377) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH22 | 6 | 0.17 |
| (2,1377) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH21 | 6 | 0.17 |
| (2,1377) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH22 | 6 | 0.17 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 2 | 0.17 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 2 | 0.17 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 15 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 15 | 0.17 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 15 | 0.17 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 15 | 0.17 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 15 | 0.17 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 15 | 0.17 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 8 | 0.17 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 8 | 0.17 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 8 | 0.17 |
| (2,1350) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 8 | 0.17 |
| (2,1350) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 8 | 0.17 |
| (2,1350) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 8 | 0.17 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 15 | 0.17 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 15 | 0.17 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 15 | 0.17 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 15 | 0.17 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 15 | 0.17 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 15 | 0.17 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 7 | 0.17 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 7 | 0.17 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 7 | 0.17 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 7 | 0.17 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 7 | 0.17 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 7 | 0.17 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 10 | 0.17 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 10 | 0.17 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 10 | 0.17 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 10 | 0.17 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 10 | 0.17 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 10 | 0.17 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 15 | 0.17 |
| (2,1321) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB2 | 12 | 0.17 |
| (2,1321) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB3 | 12 | 0.17 |
| (2,1321) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB2 | 12 | 0.17 |
| (2,1321) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB3 | 12 | 0.17 |
| (2,1321) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB2 | 12 | 0.17 |
| (2,1321) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB3 | 12 | 0.17 |
| (2,1289) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 11 | 0.17 |
| (2,1270) | 1:707:A:ARG:H | 1:707:A:ARG:HG2 | 7 | 0.17 |
| (2,1270) | 1:707:A:ARG:H | 1:707:A:ARG:HG3 | 7 | 0.17 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 15 | 0.17 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 15 | 0.17 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 8 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 8 | 0.17 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 8 | 0.17 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 8 | 0.17 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 8 | 0.17 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 8 | 0.17 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 1 | 0.17 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 1 | 0.17 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 1 | 0.17 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 1 | 0.17 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 1 | 0.17 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 1 | 0.17 |
| (2,1229) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB2 | 12 | 0.17 |
| (2,1229) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB3 | 12 | 0.17 |
| (2,1229) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB2 | 12 | 0.17 |
| (2,1229) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB3 | 12 | 0.17 |
| (2,1229) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB2 | 12 | 0.17 |
| (2,1229) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB3 | 12 | 0.17 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 4 | 0.17 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 7 | 0.17 |
| (2,1213) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 14 | 0.17 |
| (2,1206) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 8 | 0.17 |
| (2,1206) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 8 | 0.17 |
| (2,1206) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 8 | 0.17 |
| (2,1206) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 10 | 0.17 |
| (2,1206) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 10 | 0.17 |
| (2,1206) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 10 | 0.17 |
| (2,1198) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH11 | 8 | 0.17 |
| (2,1198) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH12 | 8 | 0.17 |
| (2,1198) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH11 | 8 | 0.17 |
| (2,1198) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH12 | 8 | 0.17 |
| (2,1198) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH11 | 8 | 0.17 |
| (2,1198) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH12 | 8 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 2 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 2 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 2 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 2 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 2 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 2 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 13 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 13 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 13 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 13 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 13 | 0.17 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 13 | 0.17 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD11 | 14 | 0.17 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD12 | 14 | 0.17 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD13 | 14 | 0.17 |
| (2,1126) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 15 | 0.17 |
| (2,1126) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 15 | 0.17 |
| (2,1126) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 15 | 0.17 |
| (2,1118) | 1:672:A:TRP:H | 1:673:A:PHE:H | 6 | 0.17 |
| (2,1118) | 1:672:A:TRP:H | 1:673:A:PHE:H | 12 | 0.17 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 2 | 0.17 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 1 | 0.17 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 5 | 0.17 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 10 | 0.17 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 4 | 0.17 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 4 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 10 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 10 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 10 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 10 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 10 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 10 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 14 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 14 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 14 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 14 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 14 | 0.17 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 14 | 0.17 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD11 | 1 | 0.17 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD12 | 1 | 0.17 |
| (2,1052) | 1:819:A:ALA:H | 1:820:A:ILE:HD13 | 1 | 0.17 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 2 | 0.17 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 2 | 0.17 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 2 | 0.17 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 2 | 0.17 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 2 | 0.17 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 2 | 0.17 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 8 | 0.17 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 8 | 0.17 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 8 | 0.17 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 8 | 0.17 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 8 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 8 | 0.17 |
| (2,1032) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 14 | 0.17 |
| (2,1032) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 14 | 0.17 |
| (2,1032) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 14 | 0.17 |
| (2,1011) | 1:782:A:VAL:HG21 | 1:779:A:THR:HA | 4 | 0.17 |
| (2,1011) | 1:782:A:VAL:HG22 | 1:779:A:THR:HA | 4 | 0.17 |
| (2,1011) | 1:782:A:VAL:HG23 | 1:779:A:THR:HA | 4 | 0.17 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 12 | 0.17 |
| (2,1005) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 12 | 0.17 |
| (2,1005) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 12 | 0.17 |
| (2,1005) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 12 | 0.17 |
| (2,1005) | 1:781:A:ILE:HG21 | 1:778:A:VAL:HA | 14 | 0.17 |
| (2,1005) | 1:781:A:ILE:HG22 | 1:778:A:VAL:HA | 14 | 0.17 |
| (2,1005) | 1:781:A:ILE:HG23 | 1:778:A:VAL:HA | 14 | 0.17 |
| (2,977) | 1:777:A:ILE:H | 1:774:A:LEU:HA | 1 | 0.17 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 10 | 0.17 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 10 | 0.17 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 10 | 0.17 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 10 | 0.17 |
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 10 | 0.17 |
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 10 | 0.17 |
| (2,952) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH21 | 6 | 0.17 |
| (2,952) | 1:771:A:LEU:HD21 | 1:772:A:ARG:HH22 | 6 | 0.17 |
| (2,952) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH21 | 6 | 0.17 |
| (2,952) | 1:771:A:LEU:HD22 | 1:772:A:ARG:HH22 | 6 | 0.17 |
| (2,952) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH21 | 6 | 0.17 |
| (2,952) | 1:771:A:LEU:HD23 | 1:772:A:ARG:HH22 | 6 | 0.17 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 2 | 0.17 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 2 | 0.17 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 15 | 0.17 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 15 | 0.17 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 15 | 0.17 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 15 | 0.17 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 15 | 0.17 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 15 | 0.17 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 8 | 0.17 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 8 | 0.17 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 8 | 0.17 |
| (2,925) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 8 | 0.17 |
| (2,925) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 8 | 0.17 |
| (2,925) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 8 | 0.17 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 15 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 15 | 0.17 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 15 | 0.17 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 15 | 0.17 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 15 | 0.17 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 15 | 0.17 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 7 | 0.17 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 7 | 0.17 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 7 | 0.17 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 7 | 0.17 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 7 | 0.17 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 7 | 0.17 |
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 10 | 0.17 |
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 10 | 0.17 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 10 | 0.17 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 10 | 0.17 |
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 10 | 0.17 |
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 10 | 0.17 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 15 | 0.17 |
| (2,896) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB2 | 12 | 0.17 |
| (2,896) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB3 | 12 | 0.17 |
| (2,896) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB2 | 12 | 0.17 |
| (2,896) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB3 | 12 | 0.17 |
| (2,896) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB2 | 12 | 0.17 |
| (2,896) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB3 | 12 | 0.17 |
| (2,864) | 1:710:A:GLN:H | 1:708:A:VAL:HA | 11 | 0.17 |
| (2,845) | 1:707:A:ARG:H | 1:707:A:ARG:HG2 | 7 | 0.17 |
| (2,845) | 1:707:A:ARG:H | 1:707:A:ARG:HG3 | 7 | 0.17 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 15 | 0.17 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 15 | 0.17 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 8 | 0.17 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 8 | 0.17 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 8 | 0.17 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 8 | 0.17 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 8 | 0.17 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 8 | 0.17 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 1 | 0.17 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 1 | 0.17 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 1 | 0.17 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 1 | 0.17 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 1 | 0.17 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 1 | 0.17 |
| (2,804) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB2 | 12 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,804) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB3 | 12 | 0.17 |
| (2,804) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB2 | 12 | 0.17 |
| (2,804) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB3 | 12 | 0.17 |
| (2,804) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB2 | 12 | 0.17 |
| (2,804) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB3 | 12 | 0.17 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 4 | 0.17 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 7 | 0.17 |
| (2,788) | 1:700:A:ALA:H | 1:699:A:PHE:HA | 14 | 0.17 |
| (2,781) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 8 | 0.17 |
| (2,781) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 8 | 0.17 |
| (2,781) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 8 | 0.17 |
| (2,781) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 10 | 0.17 |
| (2,781) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 10 | 0.17 |
| (2,781) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 10 | 0.17 |
| (2,773) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH11 | 8 | 0.17 |
| (2,773) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH12 | 8 | 0.17 |
| (2,773) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH11 | 8 | 0.17 |
| (2,773) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH12 | 8 | 0.17 |
| (2,773) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH11 | 8 | 0.17 |
| (2,773) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH12 | 8 | 0.17 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 2 | 0.17 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 2 | 0.17 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 2 | 0.17 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 2 | 0.17 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 2 | 0.17 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 2 | 0.17 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 13 | 0.17 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 13 | 0.17 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 13 | 0.17 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 13 | 0.17 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 13 | 0.17 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 13 | 0.17 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD11 | 14 | 0.17 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD12 | 14 | 0.17 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD13 | 14 | 0.17 |
| (2,701) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 15 | 0.17 |
| (2,701) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 15 | 0.17 |
| (2,701) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 15 | 0.17 |
| (2,693) | 1:672:A:TRP:H | 1:673:A:PHE:H | 6 | 0.17 |
| (2,693) | 1:672:A:TRP:H | 1:673:A:PHE:H | 12 | 0.17 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 2 | 0.17 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 1 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|------------------------|------------------------|----------|---------------|
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 5 | 0.17 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 10 | 0.17 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB2 | 4 | 0.17 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB3 | 4 | 0.17 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 8 | 0.17 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 8 | 0.17 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 8 | 0.17 |
| (2,546) | 1:776:B:LEU:H | 1:773:B:ASP:HA | 15 | 0.17 |
| (2,545) | 1:775:B:LEU:HD11 | 1:772:B:ARG:HA | 1 | 0.17 |
| (2,545) | 1:775:B:LEU:HD12 | 1:772:B:ARG:HA | 1 | 0.17 |
| (2,545) | 1:775:B:LEU:HD13 | 1:772:B:ARG:HA | 1 | 0.17 |
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD2 | 15 | 0.17 |
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD3 | 15 | 0.17 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH21 | 11 | 0.17 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH22 | 11 | 0.17 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH21 | 11 | 0.17 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH22 | 11 | 0.17 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH21 | 11 | 0.17 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH22 | 11 | 0.17 |
| (2,522) | 1:764:B:SER:H | 1:761:B:ARG:HA | 9 | 0.17 |
| (2,522) | 1:764:B:SER:H | 1:761:B:ARG:HA | 13 | 0.17 |
| (2,516) | 1:760:B:LEU:HD21 | 1:768:B:TYR:HE1 | 10 | 0.17 |
| (2,516) | 1:760:B:LEU:HD21 | 1:768:B:TYR:HE2 | 10 | 0.17 |
| (2,516) | 1:760:B:LEU:HD22 | 1:768:B:TYR:HE1 | 10 | 0.17 |
| (2,516) | 1:760:B:LEU:HD22 | 1:768:B:TYR:HE2 | 10 | 0.17 |
| (2,516) | 1:760:B:LEU:HD23 | 1:768:B:TYR:HE1 | 10 | 0.17 |
| (2,516) | 1:760:B:LEU:HD23 | 1:768:B:TYR:HE2 | 10 | 0.17 |
| (2,509) | 1:758:B:ASP:H | 1:754:B:ALA:HB1 | 12 | 0.17 |
| (2,509) | 1:758:B:ASP:H | 1:754:B:ALA:HB2 | 12 | 0.17 |
| (2,509) | 1:758:B:ASP:H | 1:754:B:ALA:HB3 | 12 | 0.17 |
| (2,500) | 1:754:B:ALA:HB1 | 1:758:B:ASP:H | 12 | 0.17 |
| (2,500) | 1:754:B:ALA:HB2 | 1:758:B:ASP:H | 12 | 0.17 |
| (2,500) | 1:754:B:ALA:HB3 | 1:758:B:ASP:H | 12 | 0.17 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 12 | 0.17 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 12 | 0.17 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 12 | 0.17 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 12 | 0.17 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 12 | 0.17 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 12 | 0.17 |
| (2,492) | 1:753:B:LEU:HD21 | 1:750:B:ASN:HB2 | 1 | 0.17 |
| (2,492) | 1:753:B:LEU:HD21 | 1:750:B:ASN:HB3 | 1 | 0.17 |
| (2,492) | 1:753:B:LEU:HD22 | 1:750:B:ASN:HB2 | 1 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,492) | 1:753:B:LEU:HD22 | 1:750:B:ASN:HB3 | 1 | 0.17 |
| (2,492) | 1:753:B:LEU:HD23 | 1:750:B:ASN:HB2 | 1 | 0.17 |
| (2,492) | 1:753:B:LEU:HD23 | 1:750:B:ASN:HB3 | 1 | 0.17 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 7 | 0.17 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 7 | 0.17 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 7 | 0.17 |
| (2,465) | 1:746:B:ILE:H | 1:743:B:ASP:HB2 | 14 | 0.17 |
| (2,465) | 1:746:B:ILE:H | 1:743:B:ASP:HB3 | 14 | 0.17 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD2 | 8 | 0.17 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD3 | 8 | 0.17 |
| (2,414) | 1:707:B:ARG:H | 1:704:B:LEU:HA | 12 | 0.17 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG21 | 8 | 0.17 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG22 | 8 | 0.17 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG23 | 8 | 0.17 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG21 | 8 | 0.17 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG22 | 8 | 0.17 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG23 | 8 | 0.17 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG21 | 8 | 0.17 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG22 | 8 | 0.17 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG23 | 8 | 0.17 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG21 | 15 | 0.17 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG22 | 15 | 0.17 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG23 | 15 | 0.17 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG21 | 15 | 0.17 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG22 | 15 | 0.17 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG23 | 15 | 0.17 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG21 | 15 | 0.17 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG22 | 15 | 0.17 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG23 | 15 | 0.17 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD2 | 10 | 0.17 |
| (2,393) | 1:704:B:LEU:HD11 | 1:707:B:ARG:HD3 | 10 | 0.17 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD2 | 10 | 0.17 |
| (2,393) | 1:704:B:LEU:HD12 | 1:707:B:ARG:HD3 | 10 | 0.17 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD2 | 10 | 0.17 |
| (2,393) | 1:704:B:LEU:HD13 | 1:707:B:ARG:HD3 | 10 | 0.17 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB2 | 11 | 0.17 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB3 | 11 | 0.17 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB2 | 11 | 0.17 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB3 | 11 | 0.17 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB2 | 11 | 0.17 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB3 | 11 | 0.17 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 2 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 3 | 0.17 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 6 | 0.17 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 7 | 0.17 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 15 | 0.17 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 9 | 0.17 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 9 | 0.17 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 9 | 0.17 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 12 | 0.17 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 12 | 0.17 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 12 | 0.17 |
| (2,354) | 1:697:B:ILE:HG21 | 1:700:B:ALA:HB1 | 15 | 0.17 |
| (2,354) | 1:697:B:ILE:HG21 | 1:700:B:ALA:HB2 | 15 | 0.17 |
| (2,354) | 1:697:B:ILE:HG21 | 1:700:B:ALA:HB3 | 15 | 0.17 |
| (2,354) | 1:697:B:ILE:HG22 | 1:700:B:ALA:HB1 | 15 | 0.17 |
| (2,354) | 1:697:B:ILE:HG22 | 1:700:B:ALA:HB2 | 15 | 0.17 |
| (2,354) | 1:697:B:ILE:HG22 | 1:700:B:ALA:HB3 | 15 | 0.17 |
| (2,354) | 1:697:B:ILE:HG23 | 1:700:B:ALA:HB1 | 15 | 0.17 |
| (2,354) | 1:697:B:ILE:HG23 | 1:700:B:ALA:HB2 | 15 | 0.17 |
| (2,354) | 1:697:B:ILE:HG23 | 1:700:B:ALA:HB3 | 15 | 0.17 |
| (2,338) | 1:693:B:ILE:HG21 | 1:693:B:ILE:H | 6 | 0.17 |
| (2,338) | 1:693:B:ILE:HG22 | 1:693:B:ILE:H | 6 | 0.17 |
| (2,338) | 1:693:B:ILE:HG23 | 1:693:B:ILE:H | 6 | 0.17 |
| (2,336) | 1:693:B:ILE:HD11 | 1:697:B:ILE:H | 6 | 0.17 |
| (2,336) | 1:693:B:ILE:HD12 | 1:697:B:ILE:H | 6 | 0.17 |
| (2,336) | 1:693:B:ILE:HD13 | 1:697:B:ILE:H | 6 | 0.17 |
| (2,332) | 1:692:B:LEU:HD11 | 1:691:B:SER:HB2 | 11 | 0.17 |
| (2,332) | 1:692:B:LEU:HD11 | 1:691:B:SER:HB3 | 11 | 0.17 |
| (2,332) | 1:692:B:LEU:HD12 | 1:691:B:SER:HB2 | 11 | 0.17 |
| (2,332) | 1:692:B:LEU:HD12 | 1:691:B:SER:HB3 | 11 | 0.17 |
| (2,332) | 1:692:B:LEU:HD13 | 1:691:B:SER:HB2 | 11 | 0.17 |
| (2,332) | 1:692:B:LEU:HD13 | 1:691:B:SER:HB3 | 11 | 0.17 |
| (2,288) | 1:679:B:LEU:HD11 | 1:678:B:TRP:HH2 | 2 | 0.17 |
| (2,288) | 1:679:B:LEU:HD12 | 1:678:B:TRP:HH2 | 2 | 0.17 |
| (2,288) | 1:679:B:LEU:HD13 | 1:678:B:TRP:HH2 | 2 | 0.17 |
| (2,288) | 1:679:B:LEU:HD21 | 1:678:B:TRP:HH2 | 2 | 0.17 |
| (2,288) | 1:679:B:LEU:HD22 | 1:678:B:TRP:HH2 | 2 | 0.17 |
| (2,288) | 1:679:B:LEU:HD23 | 1:678:B:TRP:HH2 | 2 | 0.17 |
| (2,277) | 1:676:B:THR:HG21 | 1:669:B:LEU:HA | 9 | 0.17 |
| (2,277) | 1:676:B:THR:HG22 | 1:669:B:LEU:HA | 9 | 0.17 |
| (2,277) | 1:676:B:THR:HG23 | 1:669:B:LEU:HA | 9 | 0.17 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD11 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD12 | 12 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD13 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD21 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD22 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD23 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD11 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD12 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD13 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD21 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD22 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD23 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD11 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD12 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD13 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD21 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD22 | 12 | 0.17 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD23 | 12 | 0.17 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 3 | 0.17 |
| (2,225) | 1:664:B:ASP:H | 1:663:B:LEU:H | 14 | 0.17 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 10 | 0.17 |
| (2,224) | 1:664:B:ASP:H | 1:663:B:LEU:HA | 14 | 0.17 |
| (2,219) | 1:663:B:LEU:H | 1:664:B:ASP:H | 14 | 0.17 |
| (2,214) | 1:661:B:LEU:HD11 | 1:662:B:GLU:HG2 | 8 | 0.17 |
| (2,214) | 1:661:B:LEU:HD11 | 1:662:B:GLU:HG3 | 8 | 0.17 |
| (2,214) | 1:661:B:LEU:HD12 | 1:662:B:GLU:HG2 | 8 | 0.17 |
| (2,214) | 1:661:B:LEU:HD12 | 1:662:B:GLU:HG3 | 8 | 0.17 |
| (2,214) | 1:661:B:LEU:HD13 | 1:662:B:GLU:HG2 | 8 | 0.17 |
| (2,214) | 1:661:B:LEU:HD13 | 1:662:B:GLU:HG3 | 8 | 0.17 |
| (2,214) | 1:661:B:LEU:HD21 | 1:662:B:GLU:HG2 | 8 | 0.17 |
| (2,214) | 1:661:B:LEU:HD21 | 1:662:B:GLU:HG3 | 8 | 0.17 |
| (2,214) | 1:661:B:LEU:HD22 | 1:662:B:GLU:HG2 | 8 | 0.17 |
| (2,214) | 1:661:B:LEU:HD22 | 1:662:B:GLU:HG3 | 8 | 0.17 |
| (2,214) | 1:661:B:LEU:HD23 | 1:662:B:GLU:HG2 | 8 | 0.17 |
| (2,214) | 1:661:B:LEU:HD23 | 1:662:B:GLU:HG3 | 8 | 0.17 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 1 | 0.17 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 1 | 0.17 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 1 | 0.17 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 2 | 0.17 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 2 | 0.17 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 2 | 0.17 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 10 | 0.17 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 10 | 0.17 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 10 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 1 | 0.17 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 1 | 0.17 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 1 | 0.17 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 2 | 0.17 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 2 | 0.17 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 2 | 0.17 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 10 | 0.17 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 10 | 0.17 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 10 | 0.17 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD11 | 2 | 0.17 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD12 | 2 | 0.17 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD13 | 2 | 0.17 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 13 | 0.17 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 13 | 0.17 |
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD11 | 6 | 0.17 |
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD12 | 6 | 0.17 |
| (2,189) | 1:816:A:ASN:H | 1:830:A:ILE:HD13 | 6 | 0.17 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD11 | 6 | 0.17 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD12 | 6 | 0.17 |
| (2,188) | 1:816:A:ASN:H | 1:830:A:ILE:HD13 | 6 | 0.17 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 12 | 0.17 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 12 | 0.17 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD2 | 14 | 0.17 |
| (2,184) | 1:808:B:LYS:H | 1:838:B:ARG:HD3 | 14 | 0.17 |
| (2,177) | 1:803:A:TRP:HE1 | 1:764:B:SER:HG | 14 | 0.17 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 5 | 0.17 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 5 | 0.17 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 14 | 0.17 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 14 | 0.17 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 14 | 0.17 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 14 | 0.17 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 7 | 0.17 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 7 | 0.17 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 7 | 0.17 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 7 | 0.17 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 7 | 0.17 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 7 | 0.17 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 14 | 0.17 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 14 | 0.17 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 14 | 0.17 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 14 | 0.17 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 14 | 0.17 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 14 | 0.17 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD1 | 10 | 0.17 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD2 | 10 | 0.17 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD1 | 10 | 0.17 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD2 | 10 | 0.17 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD1 | 10 | 0.17 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD2 | 10 | 0.17 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD1 | 11 | 0.17 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD2 | 11 | 0.17 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD1 | 11 | 0.17 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD2 | 11 | 0.17 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD1 | 11 | 0.17 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD2 | 11 | 0.17 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD11 | 10 | 0.17 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD12 | 10 | 0.17 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD13 | 10 | 0.17 |
| (1,247) | 1:837:B:SER:O | 1:841:B:ARG:H | 4 | 0.17 |
| (1,192) | 1:799:B:LEU:O | 1:803:B:TRP:N | 15 | 0.17 |
| (1,191) | 1:799:B:LEU:O | 1:803:B:TRP:H | 6 | 0.17 |
| (1,182) | 1:794:B:LYS:O | 1:798:B:ASN:N | 10 | 0.17 |
| (1,161) | 1:837:B:SER:O | 1:841:B:ARG:H | 4 | 0.17 |
| (1,106) | 1:799:B:LEU:O | 1:803:B:TRP:N | 15 | 0.17 |
| (1,105) | 1:799:B:LEU:O | 1:803:B:TRP:H | 6 | 0.17 |
| (1,96) | 1:794:B:LYS:O | 1:798:B:ASN:N | 10 | 0.17 |
| (1,75) | 1:837:B:SER:O | 1:841:B:ARG:H | 4 | 0.17 |
| (1,20) | 1:799:B:LEU:O | 1:803:B:TRP:N | 15 | 0.17 |
| (1,19) | 1:799:B:LEU:O | 1:803:B:TRP:H | 6 | 0.17 |
| (1,10) | 1:794:B:LYS:O | 1:798:B:ASN:N | 10 | 0.17 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 4 | 0.16 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 4 | 0.16 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 4 | 0.16 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 4 | 0.16 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 4 | 0.16 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 4 | 0.16 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 14 | 0.16 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 14 | 0.16 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 14 | 0.16 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 14 | 0.16 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 14 | 0.16 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 14 | 0.16 |
| (2,1465) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 3 | 0.16 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 9 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 9 | 0.16 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 9 | 0.16 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 9 | 0.16 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 9 | 0.16 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 9 | 0.16 |
| (2,1458) | 1:786:A:GLY:H | 1:782:A:VAL:HA | 9 | 0.16 |
| (2,1451) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 4 | 0.16 |
| (2,1443) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 5 | 0.16 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 12 | 0.16 |
| (2,1438) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 12 | 0.16 |
| (2,1437) | 1:783:A:GLU:H | 1:780:A:ARG:HA | 11 | 0.16 |
| (2,1436) | 1:782:A:VAL:HG21 | 1:779:A:THR:HA | 15 | 0.16 |
| (2,1436) | 1:782:A:VAL:HG22 | 1:779:A:THR:HA | 15 | 0.16 |
| (2,1436) | 1:782:A:VAL:HG23 | 1:779:A:THR:HA | 15 | 0.16 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 9 | 0.16 |
| (2,1365) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 3 | 0.16 |
| (2,1365) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 3 | 0.16 |
| (2,1365) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 3 | 0.16 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 12 | 0.16 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 12 | 0.16 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 12 | 0.16 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 12 | 0.16 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 12 | 0.16 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 12 | 0.16 |
| (2,1329) | 1:748:A:LEU:H | 1:745:A:SER:HA | 14 | 0.16 |
| (2,1323) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD22 | 13 | 0.16 |
| (2,1323) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD22 | 13 | 0.16 |
| (2,1323) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD22 | 13 | 0.16 |
| (2,1314) | 1:746:A:ILE:H | 1:743:A:ASP:HA | 8 | 0.16 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 8 | 0.16 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 7 | 0.16 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 7 | 0.16 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 7 | 0.16 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 7 | 0.16 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 7 | 0.16 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 7 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 4 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 4 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 4 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 4 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 4 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 4 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 12 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 12 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 12 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 12 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 12 | 0.16 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 12 | 0.16 |
| (2,1228) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE1 | 13 | 0.16 |
| (2,1228) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE2 | 13 | 0.16 |
| (2,1228) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE1 | 13 | 0.16 |
| (2,1228) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE2 | 13 | 0.16 |
| (2,1228) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE1 | 13 | 0.16 |
| (2,1228) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE2 | 13 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD1 | 15 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD2 | 15 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD1 | 15 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD2 | 15 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD1 | 15 | 0.16 |
| (2,1227) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD2 | 15 | 0.16 |
| (2,1217) | 1:700:A:ALA:HB1 | 1:697:A:ILE:HA | 11 | 0.16 |
| (2,1217) | 1:700:A:ALA:HB2 | 1:697:A:ILE:HA | 11 | 0.16 |
| (2,1217) | 1:700:A:ALA:HB3 | 1:697:A:ILE:HA | 11 | 0.16 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 7 | 0.16 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 7 | 0.16 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 7 | 0.16 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 7 | 0.16 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 7 | 0.16 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 7 | 0.16 |
| (2,1206) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 11 | 0.16 |
| (2,1206) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 11 | 0.16 |
| (2,1206) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 11 | 0.16 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 7 | 0.16 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 7 | 0.16 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 7 | 0.16 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 7 | 0.16 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 7 | 0.16 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 7 | 0.16 |
| (2,1185) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA2 | 3 | 0.16 |
| (2,1185) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA3 | 3 | 0.16 |
| (2,1185) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA2 | 3 | 0.16 |
| (2,1185) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA3 | 3 | 0.16 |
| (2,1185) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA2 | 3 | 0.16 |
| (2,1185) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA3 | 3 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1181) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HG21 | 6 | 0.16 |
| (2,1181) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HG22 | 6 | 0.16 |
| (2,1181) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HG23 | 6 | 0.16 |
| (2,1181) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HG21 | 6 | 0.16 |
| (2,1181) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HG22 | 6 | 0.16 |
| (2,1181) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HG23 | 6 | 0.16 |
| (2,1181) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HG21 | 6 | 0.16 |
| (2,1181) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HG22 | 6 | 0.16 |
| (2,1181) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HG23 | 6 | 0.16 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 10 | 0.16 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 10 | 0.16 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 10 | 0.16 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 10 | 0.16 |
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 10 | 0.16 |
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 10 | 0.16 |
| (2,1168) | 1:686:A:ILE:HD11 | 1:685:A:PHE:H | 6 | 0.16 |
| (2,1168) | 1:686:A:ILE:HD12 | 1:685:A:PHE:H | 6 | 0.16 |
| (2,1168) | 1:686:A:ILE:HD13 | 1:685:A:PHE:H | 6 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 6 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 6 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 6 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 6 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 6 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 6 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 13 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 13 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 13 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 13 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 13 | 0.16 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 13 | 0.16 |
| (2,1146) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 3 | 0.16 |
| (2,1146) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 3 | 0.16 |
| (2,1146) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 3 | 0.16 |
| (2,1143) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 7 | 0.16 |
| (2,1143) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 7 | 0.16 |
| (2,1143) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 7 | 0.16 |
| (2,1122) | 1:674:A:ASP:H | 1:677:A:ASN:H | 14 | 0.16 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 15 | 0.16 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 15 | 0.16 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 15 | 0.16 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 15 | 0.16 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 15 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 15 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD11 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD12 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD13 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD21 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD22 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD23 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD11 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD12 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD13 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD21 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD22 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD23 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD11 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD12 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD13 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD21 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD22 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD23 | 2 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD11 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD12 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD13 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD21 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD22 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD23 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD11 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD12 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD13 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD21 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD22 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD23 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD11 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD12 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD13 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD21 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD22 | 8 | 0.16 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD23 | 8 | 0.16 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 14 | 0.16 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 8 | 0.16 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 4 | 0.16 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 4 | 0.16 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 4 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 4 | 0.16 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 4 | 0.16 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 4 | 0.16 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 14 | 0.16 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 14 | 0.16 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 14 | 0.16 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 14 | 0.16 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 14 | 0.16 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 14 | 0.16 |
| (2,1040) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 3 | 0.16 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 9 | 0.16 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 9 | 0.16 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 9 | 0.16 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 9 | 0.16 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 9 | 0.16 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 9 | 0.16 |
| (2,1033) | 1:786:A:GLY:H | 1:782:A:VAL:HA | 9 | 0.16 |
| (2,1026) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 4 | 0.16 |
| (2,1018) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 5 | 0.16 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD2 | 12 | 0.16 |
| (2,1013) | 1:783:A:GLU:H | 1:780:A:ARG:HD3 | 12 | 0.16 |
| (2,1012) | 1:783:A:GLU:H | 1:780:A:ARG:HA | 11 | 0.16 |
| (2,1011) | 1:782:A:VAL:HG21 | 1:779:A:THR:HA | 15 | 0.16 |
| (2,1011) | 1:782:A:VAL:HG22 | 1:779:A:THR:HA | 15 | 0.16 |
| (2,1011) | 1:782:A:VAL:HG23 | 1:779:A:THR:HA | 15 | 0.16 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 9 | 0.16 |
| (2,940) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 3 | 0.16 |
| (2,940) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 3 | 0.16 |
| (2,940) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 3 | 0.16 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 12 | 0.16 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 12 | 0.16 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 12 | 0.16 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 12 | 0.16 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 12 | 0.16 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 12 | 0.16 |
| (2,904) | 1:748:A:LEU:H | 1:745:A:SER:HA | 14 | 0.16 |
| (2,898) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD22 | 13 | 0.16 |
| (2,898) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD22 | 13 | 0.16 |
| (2,898) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD22 | 13 | 0.16 |
| (2,889) | 1:746:A:ILE:H | 1:743:A:ASP:HA | 8 | 0.16 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 8 | 0.16 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 7 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 7 | 0.16 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 7 | 0.16 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 7 | 0.16 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 7 | 0.16 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 7 | 0.16 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 4 | 0.16 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 4 | 0.16 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 4 | 0.16 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 4 | 0.16 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 4 | 0.16 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 4 | 0.16 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 12 | 0.16 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 12 | 0.16 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 12 | 0.16 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 12 | 0.16 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 12 | 0.16 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 12 | 0.16 |
| (2,803) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE1 | 13 | 0.16 |
| (2,803) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE2 | 13 | 0.16 |
| (2,803) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE1 | 13 | 0.16 |
| (2,803) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE2 | 13 | 0.16 |
| (2,803) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE1 | 13 | 0.16 |
| (2,803) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE2 | 13 | 0.16 |
| (2,802) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD1 | 15 | 0.16 |
| (2,802) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD2 | 15 | 0.16 |
| (2,802) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD1 | 15 | 0.16 |
| (2,802) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD2 | 15 | 0.16 |
| (2,802) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD1 | 15 | 0.16 |
| (2,802) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD2 | 15 | 0.16 |
| (2,792) | 1:700:A:ALA:HB1 | 1:697:A:ILE:HA | 11 | 0.16 |
| (2,792) | 1:700:A:ALA:HB2 | 1:697:A:ILE:HA | 11 | 0.16 |
| (2,792) | 1:700:A:ALA:HB3 | 1:697:A:ILE:HA | 11 | 0.16 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 7 | 0.16 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 7 | 0.16 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 7 | 0.16 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 7 | 0.16 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 7 | 0.16 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 7 | 0.16 |
| (2,781) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 11 | 0.16 |
| (2,781) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 11 | 0.16 |
| (2,781) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 11 | 0.16 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 7 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 7 | 0.16 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 7 | 0.16 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 7 | 0.16 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 7 | 0.16 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 7 | 0.16 |
| (2,760) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA2 | 3 | 0.16 |
| (2,760) | 1:693:A:ILE:HD11 | 1:694:A:GLY:HA3 | 3 | 0.16 |
| (2,760) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA2 | 3 | 0.16 |
| (2,760) | 1:693:A:ILE:HD12 | 1:694:A:GLY:HA3 | 3 | 0.16 |
| (2,760) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA2 | 3 | 0.16 |
| (2,760) | 1:693:A:ILE:HD13 | 1:694:A:GLY:HA3 | 3 | 0.16 |
| (2,756) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HG21 | 6 | 0.16 |
| (2,756) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HG22 | 6 | 0.16 |
| (2,756) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HG23 | 6 | 0.16 |
| (2,756) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HG21 | 6 | 0.16 |
| (2,756) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HG22 | 6 | 0.16 |
| (2,756) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HG23 | 6 | 0.16 |
| (2,756) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HG21 | 6 | 0.16 |
| (2,756) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HG22 | 6 | 0.16 |
| (2,756) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HG23 | 6 | 0.16 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 10 | 0.16 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 10 | 0.16 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 10 | 0.16 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 10 | 0.16 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 10 | 0.16 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 10 | 0.16 |
| (2,743) | 1:686:A:ILE:HD11 | 1:685:A:PHE:H | 6 | 0.16 |
| (2,743) | 1:686:A:ILE:HD12 | 1:685:A:PHE:H | 6 | 0.16 |
| (2,743) | 1:686:A:ILE:HD13 | 1:685:A:PHE:H | 6 | 0.16 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 6 | 0.16 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 6 | 0.16 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 6 | 0.16 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 6 | 0.16 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 6 | 0.16 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 6 | 0.16 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 13 | 0.16 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 13 | 0.16 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 13 | 0.16 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 13 | 0.16 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 13 | 0.16 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 13 | 0.16 |
| (2,721) | 1:682:A:ILE:HD11 | 1:681:A:TYR:H | 3 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,721) | 1:682:A:ILE:HD12 | 1:681:A:TYR:H | 3 | 0.16 |
| (2,721) | 1:682:A:ILE:HD13 | 1:681:A:TYR:H | 3 | 0.16 |
| (2,718) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 7 | 0.16 |
| (2,718) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 7 | 0.16 |
| (2,718) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 7 | 0.16 |
| (2,697) | 1:674:A:ASP:H | 1:677:A:ASN:H | 14 | 0.16 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 15 | 0.16 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 15 | 0.16 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 15 | 0.16 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 15 | 0.16 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 15 | 0.16 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 15 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD11 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD12 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD13 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD21 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD22 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD23 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD11 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD12 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD13 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD21 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD22 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD23 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD11 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD12 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD13 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD21 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD22 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD23 | 2 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD11 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD12 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD13 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD21 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD22 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD23 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD11 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD12 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD13 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD21 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD22 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD23 | 8 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD11 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD12 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD13 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD21 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD22 | 8 | 0.16 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD23 | 8 | 0.16 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 14 | 0.16 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 8 | 0.16 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 6 | 0.16 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 6 | 0.16 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 15 | 0.16 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 15 | 0.16 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 15 | 0.16 |
| (2,601) | 1:785:B:LEU:H | 1:782:B:VAL:HA | 3 | 0.16 |
| (2,599) | 1:784:B:LEU:HD11 | 1:787:B:ARG:HD2 | 3 | 0.16 |
| (2,599) | 1:784:B:LEU:HD11 | 1:787:B:ARG:HD3 | 3 | 0.16 |
| (2,599) | 1:784:B:LEU:HD12 | 1:787:B:ARG:HD2 | 3 | 0.16 |
| (2,599) | 1:784:B:LEU:HD12 | 1:787:B:ARG:HD3 | 3 | 0.16 |
| (2,599) | 1:784:B:LEU:HD13 | 1:787:B:ARG:HD2 | 3 | 0.16 |
| (2,599) | 1:784:B:LEU:HD13 | 1:787:B:ARG:HD3 | 3 | 0.16 |
| (2,575) | 1:781:B:ILE:H | 1:778:B:VAL:HA | 12 | 0.16 |
| (2,546) | 1:776:B:LEU:H | 1:773:B:ASP:HA | 3 | 0.16 |
| (2,522) | 1:764:B:SER:H | 1:761:B:ARG:HA | 11 | 0.16 |
| (2,515) | 1:760:B:LEU:HD11 | 1:757:B:TRP:HA | 2 | 0.16 |
| (2,515) | 1:760:B:LEU:HD12 | 1:757:B:TRP:HA | 2 | 0.16 |
| (2,515) | 1:760:B:LEU:HD13 | 1:757:B:TRP:HA | 2 | 0.16 |
| (2,515) | 1:760:B:LEU:HD11 | 1:757:B:TRP:HA | 11 | 0.16 |
| (2,515) | 1:760:B:LEU:HD12 | 1:757:B:TRP:HA | 11 | 0.16 |
| (2,515) | 1:760:B:LEU:HD13 | 1:757:B:TRP:HA | 11 | 0.16 |
| (2,502) | 1:755:B:LEU:H | 1:752:B:SER:HA | 10 | 0.16 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 5 | 0.16 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 5 | 0.16 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 5 | 0.16 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 5 | 0.16 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 5 | 0.16 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 5 | 0.16 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 14 | 0.16 |
| (2,479) | 1:748:B:LEU:H | 1:745:B:SER:HA | 13 | 0.16 |
| (2,473) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD22 | 8 | 0.16 |
| (2,473) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD22 | 8 | 0.16 |
| (2,473) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD22 | 8 | 0.16 |
| (2,473) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD22 | 10 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,473) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD22 | 10 | 0.16 |
| (2,473) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD22 | 10 | 0.16 |
| (2,470) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HA | 15 | 0.16 |
| (2,470) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HA | 15 | 0.16 |
| (2,470) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HA | 15 | 0.16 |
| (2,428) | 1:708:B:VAL:HG11 | 1:705:B:VAL:HA | 9 | 0.16 |
| (2,428) | 1:708:B:VAL:HG12 | 1:705:B:VAL:HA | 9 | 0.16 |
| (2,428) | 1:708:B:VAL:HG13 | 1:705:B:VAL:HA | 9 | 0.16 |
| (2,414) | 1:707:B:ARG:H | 1:704:B:LEU:HA | 15 | 0.16 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 12 | 0.16 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 12 | 0.16 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD1 | 3 | 0.16 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD2 | 3 | 0.16 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD1 | 3 | 0.16 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD2 | 3 | 0.16 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD1 | 3 | 0.16 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD2 | 3 | 0.16 |
| (2,372) | 1:701:B:VAL:HG11 | 1:698:B:VAL:HA | 5 | 0.16 |
| (2,372) | 1:701:B:VAL:HG12 | 1:698:B:VAL:HA | 5 | 0.16 |
| (2,372) | 1:701:B:VAL:HG13 | 1:698:B:VAL:HA | 5 | 0.16 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 1 | 0.16 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 12 | 0.16 |
| (2,363) | 1:700:B:ALA:H | 1:699:B:PHE:HA | 14 | 0.16 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 13 | 0.16 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 13 | 0.16 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 13 | 0.16 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 13 | 0.16 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 13 | 0.16 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 13 | 0.16 |
| (2,326) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HD1 | 14 | 0.16 |
| (2,326) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HD2 | 14 | 0.16 |
| (2,326) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HD1 | 14 | 0.16 |
| (2,326) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HD2 | 14 | 0.16 |
| (2,326) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HD1 | 14 | 0.16 |
| (2,326) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HD2 | 14 | 0.16 |
| (2,296) | 1:682:B:ILE:HD11 | 1:681:B:TYR:H | 2 | 0.16 |
| (2,296) | 1:682:B:ILE:HD12 | 1:681:B:TYR:H | 2 | 0.16 |
| (2,296) | 1:682:B:ILE:HD13 | 1:681:B:TYR:H | 2 | 0.16 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD11 | 3 | 0.16 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD12 | 3 | 0.16 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD13 | 3 | 0.16 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 9 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 9 | 0.16 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 9 | 0.16 |
| (2,280) | 1:676:B:THR:HG21 | 1:681:B:TYR:HH | 6 | 0.16 |
| (2,280) | 1:676:B:THR:HG22 | 1:681:B:TYR:HH | 6 | 0.16 |
| (2,280) | 1:676:B:THR:HG23 | 1:681:B:TYR:HH | 6 | 0.16 |
| (2,273) | 1:675:B:ILE:H | 1:674:B:ASP:H | 15 | 0.16 |
| (2,271) | 1:673:B:PHE:H | 1:672:B:TRP:H | 6 | 0.16 |
| (2,259) | 1:670:B:TRP:H | 1:667:B:ALA:HA | 3 | 0.16 |
| (2,253) | 1:669:B:LEU:H | 1:666:B:TRP:HA | 13 | 0.16 |
| (2,253) | 1:669:B:LEU:H | 1:666:B:TRP:HA | 15 | 0.16 |
| (2,229) | 1:665:B:LYS:H | 1:664:B:ASP:HA | 15 | 0.16 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 15 | 0.16 |
| (2,195) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 15 | 0.16 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG12 | 15 | 0.16 |
| (2,194) | 1:817:A:ALA:H | 1:830:A:ILE:HG13 | 15 | 0.16 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD11 | 5 | 0.16 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD12 | 5 | 0.16 |
| (2,187) | 1:816:B:ASN:H | 1:830:B:ILE:HD13 | 5 | 0.16 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 9 | 0.16 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 9 | 0.16 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 14 | 0.16 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 14 | 0.16 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 9 | 0.16 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 9 | 0.16 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 9 | 0.16 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 9 | 0.16 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 9 | 0.16 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 9 | 0.16 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 13 | 0.16 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 13 | 0.16 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 13 | 0.16 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 13 | 0.16 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 13 | 0.16 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 13 | 0.16 |
| (2,114) | 1:781:A:ILE:HD11 | 1:743:B:ASP:HA | 5 | 0.16 |
| (2,114) | 1:781:A:ILE:HD12 | 1:743:B:ASP:HA | 5 | 0.16 |
| (2,114) | 1:781:A:ILE:HD13 | 1:743:B:ASP:HA | 5 | 0.16 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD2 | 1 | 0.16 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD3 | 1 | 0.16 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD2 | 1 | 0.16 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD3 | 1 | 0.16 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD2 | 1 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD3 | 1 | 0.16 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD2 | 8 | 0.16 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD3 | 8 | 0.16 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB2 | 10 | 0.16 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB3 | 10 | 0.16 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD2 | 3 | 0.16 |
| (2,78) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HD3 | 3 | 0.16 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD2 | 3 | 0.16 |
| (2,78) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HD3 | 3 | 0.16 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD2 | 3 | 0.16 |
| (2,78) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HD3 | 3 | 0.16 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE1 | 1 | 0.16 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE2 | 1 | 0.16 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE1 | 1 | 0.16 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE2 | 1 | 0.16 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE1 | 1 | 0.16 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE2 | 1 | 0.16 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD1 | 1 | 0.16 |
| (2,59) | 1:700:A:ALA:HB1 | 1:699:A:PHE:HD2 | 1 | 0.16 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD1 | 1 | 0.16 |
| (2,59) | 1:700:A:ALA:HB2 | 1:699:A:PHE:HD2 | 1 | 0.16 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD1 | 1 | 0.16 |
| (2,59) | 1:700:A:ALA:HB3 | 1:699:A:PHE:HD2 | 1 | 0.16 |
| (2,55) | 1:696:B:ARG:HE | 1:694:A:GLY:HA2 | 15 | 0.16 |
| (2,55) | 1:696:B:ARG:HE | 1:694:A:GLY:HA3 | 15 | 0.16 |
| (2,37) | 1:692:B:LEU:HD21 | 1:694:A:GLY:H | 3 | 0.16 |
| (2,37) | 1:692:B:LEU:HD22 | 1:694:A:GLY:H | 3 | 0.16 |
| (2,37) | 1:692:B:LEU:HD23 | 1:694:A:GLY:H | 3 | 0.16 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG21 | 9 | 0.16 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG22 | 9 | 0.16 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG23 | 9 | 0.16 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG21 | 9 | 0.16 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG22 | 9 | 0.16 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG23 | 9 | 0.16 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG21 | 9 | 0.16 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG22 | 9 | 0.16 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG23 | 9 | 0.16 |
| (2,13) | 1:666:B:TRP:HE1 | 1:666:A:TRP:HD1 | 14 | 0.16 |
| (2,12) | 1:666:A:TRP:HE1 | 1:666:B:TRP:HZ2 | 4 | 0.16 |
| (1,233) | 1:830:B:ILE:O | 1:834:B:GLN:H | 14 | 0.16 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 12 | 0.16 |
| (1,191) | 1:799:B:LEU:O | 1:803:B:TRP:H | 7 | 0.16 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 4 | 0.16 |
| (1,175) | 1:791:B:GLU:O | 1:795:B:TYR:H | 1 | 0.16 |
| (1,175) | 1:791:B:GLU:O | 1:795:B:TYR:H | 7 | 0.16 |
| (1,175) | 1:791:B:GLU:O | 1:795:B:TYR:H | 10 | 0.16 |
| (1,147) | 1:830:B:ILE:O | 1:834:B:GLN:H | 14 | 0.16 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 12 | 0.16 |
| (1,105) | 1:799:B:LEU:O | 1:803:B:TRP:H | 7 | 0.16 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 4 | 0.16 |
| (1,89) | 1:791:B:GLU:O | 1:795:B:TYR:H | 1 | 0.16 |
| (1,89) | 1:791:B:GLU:O | 1:795:B:TYR:H | 7 | 0.16 |
| (1,89) | 1:791:B:GLU:O | 1:795:B:TYR:H | 10 | 0.16 |
| (1,61) | 1:830:B:ILE:O | 1:834:B:GLN:H | 14 | 0.16 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 12 | 0.16 |
| (1,19) | 1:799:B:LEU:O | 1:803:B:TRP:H | 7 | 0.16 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 4 | 0.16 |
| (1,3) | 1:791:B:GLU:O | 1:795:B:TYR:H | 1 | 0.16 |
| (1,3) | 1:791:B:GLU:O | 1:795:B:TYR:H | 7 | 0.16 |
| (1,3) | 1:791:B:GLU:O | 1:795:B:TYR:H | 10 | 0.16 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 6 | 0.15 |
| (2,1480) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 6 | 0.15 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 5 | 0.15 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 5 | 0.15 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 7 | 0.15 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 7 | 0.15 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 4 | 0.15 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 4 | 0.15 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 4 | 0.15 |
| (2,1458) | 1:786:A:GLY:H | 1:782:A:VAL:HA | 8 | 0.15 |
| (2,1457) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 12 | 0.15 |
| (2,1457) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 12 | 0.15 |
| (2,1457) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 12 | 0.15 |
| (2,1425) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 6 | 0.15 |
| (2,1425) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 10 | 0.15 |
| (2,1376) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE1 | 3 | 0.15 |
| (2,1376) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE2 | 3 | 0.15 |
| (2,1376) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE1 | 3 | 0.15 |
| (2,1376) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE2 | 3 | 0.15 |
| (2,1376) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE1 | 3 | 0.15 |
| (2,1376) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE2 | 3 | 0.15 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 1 | 0.15 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 1 | 0.15 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 10 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 10 | 0.15 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 12 | 0.15 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 12 | 0.15 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 12 | 0.15 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 12 | 0.15 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 12 | 0.15 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 12 | 0.15 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 14 | 0.15 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 14 | 0.15 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 14 | 0.15 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 14 | 0.15 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 14 | 0.15 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 14 | 0.15 |
| (2,1288) | 1:709:A:ARG:HE | 1:709:A:ARG:H | 13 | 0.15 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 5 | 0.15 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 5 | 0.15 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 5 | 0.15 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 5 | 0.15 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 5 | 0.15 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 5 | 0.15 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 6 | 0.15 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 11 | 0.15 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 11 | 0.15 |
| (2,1235) | 1:704:A:LEU:H | 1:701:A:VAL:HA | 14 | 0.15 |
| (2,1227) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD1 | 9 | 0.15 |
| (2,1227) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD2 | 9 | 0.15 |
| (2,1227) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD1 | 9 | 0.15 |
| (2,1227) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD2 | 9 | 0.15 |
| (2,1227) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD1 | 9 | 0.15 |
| (2,1227) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD2 | 9 | 0.15 |
| (2,1224) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 14 | 0.15 |
| (2,1218) | 1:700:A:ALA:HB1 | 1:703:A:SER:HB2 | 11 | 0.15 |
| (2,1218) | 1:700:A:ALA:HB1 | 1:703:A:SER:HB3 | 11 | 0.15 |
| (2,1218) | 1:700:A:ALA:HB2 | 1:703:A:SER:HB2 | 11 | 0.15 |
| (2,1218) | 1:700:A:ALA:HB2 | 1:703:A:SER:HB3 | 11 | 0.15 |
| (2,1218) | 1:700:A:ALA:HB3 | 1:703:A:SER:HB2 | 11 | 0.15 |
| (2,1218) | 1:700:A:ALA:HB3 | 1:703:A:SER:HB3 | 11 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 3 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 3 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 3 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 3 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 3 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 3 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 3 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 3 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 3 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 14 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 14 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 14 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 14 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 14 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 14 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 14 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 14 | 0.15 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 14 | 0.15 |
| (2,1198) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH11 | 10 | 0.15 |
| (2,1198) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH12 | 10 | 0.15 |
| (2,1198) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH11 | 10 | 0.15 |
| (2,1198) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH12 | 10 | 0.15 |
| (2,1198) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH11 | 10 | 0.15 |
| (2,1198) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH12 | 10 | 0.15 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 6 | 0.15 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 6 | 0.15 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 6 | 0.15 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 6 | 0.15 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 6 | 0.15 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 6 | 0.15 |
| (2,1138) | 1:679:A:LEU:HD11 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,1138) | 1:679:A:LEU:HD12 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,1138) | 1:679:A:LEU:HD13 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,1138) | 1:679:A:LEU:HD21 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,1138) | 1:679:A:LEU:HD22 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,1138) | 1:679:A:LEU:HD23 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 6 | 0.15 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 6 | 0.15 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 6 | 0.15 |
| (2,1126) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 10 | 0.15 |
| (2,1126) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 10 | 0.15 |
| (2,1126) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 10 | 0.15 |
| (2,1109) | 1:670:A:TRP:H | 1:667:A:ALA:HA | 11 | 0.15 |
| (2,1108) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 6 | 0.15 |
| (2,1108) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 6 | 0.15 |
| (2,1108) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 6 | 0.15 |
| (2,1108) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 6 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,1108) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 6 | 0.15 |
| (2,1108) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 6 | 0.15 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 4 | 0.15 |
| (2,1084) | 1:666:A:TRP:H | 1:663:A:LEU:HA | 9 | 0.15 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 11 | 0.15 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE21 | 6 | 0.15 |
| (2,1055) | 1:835:A:GLY:H | 1:834:A:GLN:HE22 | 6 | 0.15 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 5 | 0.15 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 5 | 0.15 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 7 | 0.15 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 7 | 0.15 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 4 | 0.15 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 4 | 0.15 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 4 | 0.15 |
| (2,1033) | 1:786:A:GLY:H | 1:782:A:VAL:HA | 8 | 0.15 |
| (2,1032) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 12 | 0.15 |
| (2,1032) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 12 | 0.15 |
| (2,1032) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 12 | 0.15 |
| (2,1000) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 6 | 0.15 |
| (2,1000) | 1:781:A:ILE:H | 1:778:A:VAL:HA | 10 | 0.15 |
| (2,951) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE1 | 3 | 0.15 |
| (2,951) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE2 | 3 | 0.15 |
| (2,951) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE1 | 3 | 0.15 |
| (2,951) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE2 | 3 | 0.15 |
| (2,951) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE1 | 3 | 0.15 |
| (2,951) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE2 | 3 | 0.15 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 1 | 0.15 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 1 | 0.15 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 10 | 0.15 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 10 | 0.15 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 12 | 0.15 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 12 | 0.15 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 12 | 0.15 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 12 | 0.15 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 12 | 0.15 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 12 | 0.15 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 14 | 0.15 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 14 | 0.15 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 14 | 0.15 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 14 | 0.15 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 14 | 0.15 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 14 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,863) | 1:709:A:ARG:HE | 1:709:A:ARG:H | 13 | 0.15 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 5 | 0.15 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 5 | 0.15 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 5 | 0.15 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 5 | 0.15 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 5 | 0.15 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 5 | 0.15 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 6 | 0.15 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 11 | 0.15 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 11 | 0.15 |
| (2,810) | 1:704:A:LEU:H | 1:701:A:VAL:HA | 14 | 0.15 |
| (2,802) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD1 | 9 | 0.15 |
| (2,802) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HD2 | 9 | 0.15 |
| (2,802) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD1 | 9 | 0.15 |
| (2,802) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HD2 | 9 | 0.15 |
| (2,802) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD1 | 9 | 0.15 |
| (2,802) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HD2 | 9 | 0.15 |
| (2,799) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 14 | 0.15 |
| (2,793) | 1:700:A:ALA:HB1 | 1:703:A:SER:HB2 | 11 | 0.15 |
| (2,793) | 1:700:A:ALA:HB1 | 1:703:A:SER:HB3 | 11 | 0.15 |
| (2,793) | 1:700:A:ALA:HB2 | 1:703:A:SER:HB2 | 11 | 0.15 |
| (2,793) | 1:700:A:ALA:HB2 | 1:703:A:SER:HB3 | 11 | 0.15 |
| (2,793) | 1:700:A:ALA:HB3 | 1:703:A:SER:HB2 | 11 | 0.15 |
| (2,793) | 1:700:A:ALA:HB3 | 1:703:A:SER:HB3 | 11 | 0.15 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 3 | 0.15 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 3 | 0.15 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 3 | 0.15 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 3 | 0.15 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 3 | 0.15 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 3 | 0.15 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 3 | 0.15 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 3 | 0.15 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 3 | 0.15 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 14 | 0.15 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 14 | 0.15 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 14 | 0.15 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 14 | 0.15 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 14 | 0.15 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 14 | 0.15 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 14 | 0.15 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 14 | 0.15 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 14 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,773) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH11 | 10 | 0.15 |
| (2,773) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HH12 | 10 | 0.15 |
| (2,773) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH11 | 10 | 0.15 |
| (2,773) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HH12 | 10 | 0.15 |
| (2,773) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH11 | 10 | 0.15 |
| (2,773) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HH12 | 10 | 0.15 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 6 | 0.15 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 6 | 0.15 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 6 | 0.15 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 6 | 0.15 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 6 | 0.15 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 6 | 0.15 |
| (2,713) | 1:679:A:LEU:HD11 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,713) | 1:679:A:LEU:HD12 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,713) | 1:679:A:LEU:HD13 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,713) | 1:679:A:LEU:HD21 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,713) | 1:679:A:LEU:HD22 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,713) | 1:679:A:LEU:HD23 | 1:678:A:TRP:HH2 | 6 | 0.15 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 6 | 0.15 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 6 | 0.15 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 6 | 0.15 |
| (2,701) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 10 | 0.15 |
| (2,701) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 10 | 0.15 |
| (2,701) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 10 | 0.15 |
| (2,684) | 1:670:A:TRP:H | 1:667:A:ALA:HA | 11 | 0.15 |
| (2,683) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 6 | 0.15 |
| (2,683) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 6 | 0.15 |
| (2,683) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 6 | 0.15 |
| (2,683) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 6 | 0.15 |
| (2,683) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 6 | 0.15 |
| (2,683) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 6 | 0.15 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 4 | 0.15 |
| (2,659) | 1:666:A:TRP:H | 1:663:A:LEU:HA | 9 | 0.15 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 11 | 0.15 |
| (2,636) | 1:761:B:ARG:HH12 | 1:758:B:ASP:OD1 | 10 | 0.15 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 15 | 0.15 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 15 | 0.15 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD11 | 13 | 0.15 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD12 | 13 | 0.15 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD13 | 13 | 0.15 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD11 | 3 | 0.15 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD12 | 3 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD13 | 3 | 0.15 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD21 | 3 | 0.15 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD22 | 3 | 0.15 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD23 | 3 | 0.15 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD11 | 5 | 0.15 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD12 | 5 | 0.15 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD13 | 5 | 0.15 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD21 | 5 | 0.15 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD22 | 5 | 0.15 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD23 | 5 | 0.15 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD21 | 12 | 0.15 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD22 | 12 | 0.15 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD23 | 12 | 0.15 |
| (2,608) | 1:786:B:GLY:H | 1:782:B:VAL:HA | 3 | 0.15 |
| (2,608) | 1:786:B:GLY:H | 1:782:B:VAL:HA | 9 | 0.15 |
| (2,593) | 1:784:B:LEU:H | 1:781:B:ILE:HA | 7 | 0.15 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD2 | 7 | 0.15 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD3 | 7 | 0.15 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 7 | 0.15 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD2 | 5 | 0.15 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD3 | 5 | 0.15 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD2 | 5 | 0.15 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD3 | 5 | 0.15 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD2 | 5 | 0.15 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD3 | 5 | 0.15 |
| (2,557) | 1:777:B:ILE:HD11 | 1:774:B:LEU:HA | 1 | 0.15 |
| (2,557) | 1:777:B:ILE:HD12 | 1:774:B:LEU:HA | 1 | 0.15 |
| (2,557) | 1:777:B:ILE:HD13 | 1:774:B:LEU:HA | 1 | 0.15 |
| (2,546) | 1:776:B:LEU:H | 1:773:B:ASP:HA | 8 | 0.15 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH21 | 6 | 0.15 |
| (2,527) | 1:771:B:LEU:HD21 | 1:772:B:ARG:HH22 | 6 | 0.15 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH21 | 6 | 0.15 |
| (2,527) | 1:771:B:LEU:HD22 | 1:772:B:ARG:HH22 | 6 | 0.15 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH21 | 6 | 0.15 |
| (2,527) | 1:771:B:LEU:HD23 | 1:772:B:ARG:HH22 | 6 | 0.15 |
| (2,522) | 1:764:B:SER:H | 1:761:B:ARG:HA | 2 | 0.15 |
| (2,479) | 1:748:B:LEU:H | 1:745:B:SER:HA | 12 | 0.15 |
| (2,472) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD21 | 12 | 0.15 |
| (2,472) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD21 | 12 | 0.15 |
| (2,472) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD21 | 12 | 0.15 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG11 | 6 | 0.15 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG12 | 6 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG13 | 6 | 0.15 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG11 | 11 | 0.15 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG12 | 11 | 0.15 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG13 | 11 | 0.15 |
| (2,429) | 1:708:B:VAL:HG21 | 1:707:B:ARG:HD2 | 9 | 0.15 |
| (2,429) | 1:708:B:VAL:HG21 | 1:707:B:ARG:HD3 | 9 | 0.15 |
| (2,429) | 1:708:B:VAL:HG22 | 1:707:B:ARG:HD2 | 9 | 0.15 |
| (2,429) | 1:708:B:VAL:HG22 | 1:707:B:ARG:HD3 | 9 | 0.15 |
| (2,429) | 1:708:B:VAL:HG23 | 1:707:B:ARG:HD2 | 9 | 0.15 |
| (2,429) | 1:708:B:VAL:HG23 | 1:707:B:ARG:HD3 | 9 | 0.15 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 10 | 0.15 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 10 | 0.15 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG21 | 3 | 0.15 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG22 | 3 | 0.15 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG23 | 3 | 0.15 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG21 | 3 | 0.15 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG22 | 3 | 0.15 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG23 | 3 | 0.15 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG21 | 3 | 0.15 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG22 | 3 | 0.15 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG23 | 3 | 0.15 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB2 | 15 | 0.15 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB3 | 15 | 0.15 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB2 | 15 | 0.15 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB3 | 15 | 0.15 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB2 | 15 | 0.15 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB3 | 15 | 0.15 |
| (2,378) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HE1 | 3 | 0.15 |
| (2,378) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HE2 | 3 | 0.15 |
| (2,378) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HE1 | 3 | 0.15 |
| (2,378) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HE2 | 3 | 0.15 |
| (2,378) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HE1 | 3 | 0.15 |
| (2,378) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HE2 | 3 | 0.15 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD1 | 2 | 0.15 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD2 | 2 | 0.15 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD1 | 2 | 0.15 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD2 | 2 | 0.15 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD1 | 2 | 0.15 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD2 | 2 | 0.15 |
| (2,372) | 1:701:B:VAL:HG11 | 1:698:B:VAL:HA | 4 | 0.15 |
| (2,372) | 1:701:B:VAL:HG12 | 1:698:B:VAL:HA | 4 | 0.15 |
| (2,372) | 1:701:B:VAL:HG13 | 1:698:B:VAL:HA | 4 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,367) | 1:700:B:ALA:HB1 | 1:697:B:ILE:HA | 6 | 0.15 |
| (2,367) | 1:700:B:ALA:HB2 | 1:697:B:ILE:HA | 6 | 0.15 |
| (2,367) | 1:700:B:ALA:HB3 | 1:697:B:ILE:HA | 6 | 0.15 |
| (2,367) | 1:700:B:ALA:HB1 | 1:697:B:ILE:HA | 7 | 0.15 |
| (2,367) | 1:700:B:ALA:HB2 | 1:697:B:ILE:HA | 7 | 0.15 |
| (2,367) | 1:700:B:ALA:HB3 | 1:697:B:ILE:HA | 7 | 0.15 |
| (2,357) | 1:698:B:VAL:HG11 | 1:699:B:PHE:HD1 | 14 | 0.15 |
| (2,357) | 1:698:B:VAL:HG11 | 1:699:B:PHE:HD2 | 14 | 0.15 |
| (2,357) | 1:698:B:VAL:HG12 | 1:699:B:PHE:HD1 | 14 | 0.15 |
| (2,357) | 1:698:B:VAL:HG12 | 1:699:B:PHE:HD2 | 14 | 0.15 |
| (2,357) | 1:698:B:VAL:HG13 | 1:699:B:PHE:HD1 | 14 | 0.15 |
| (2,357) | 1:698:B:VAL:HG13 | 1:699:B:PHE:HD2 | 14 | 0.15 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 1 | 0.15 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 1 | 0.15 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 1 | 0.15 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 1 | 0.15 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 1 | 0.15 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 1 | 0.15 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 7 | 0.15 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 7 | 0.15 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 7 | 0.15 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 7 | 0.15 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 7 | 0.15 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 7 | 0.15 |
| (2,343) | 1:695:B:LEU:HD11 | 1:691:B:SER:HB2 | 7 | 0.15 |
| (2,343) | 1:695:B:LEU:HD11 | 1:691:B:SER:HB3 | 7 | 0.15 |
| (2,343) | 1:695:B:LEU:HD12 | 1:691:B:SER:HB2 | 7 | 0.15 |
| (2,343) | 1:695:B:LEU:HD12 | 1:691:B:SER:HB3 | 7 | 0.15 |
| (2,343) | 1:695:B:LEU:HD13 | 1:691:B:SER:HB2 | 7 | 0.15 |
| (2,343) | 1:695:B:LEU:HD13 | 1:691:B:SER:HB3 | 7 | 0.15 |
| (2,326) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HD1 | 13 | 0.15 |
| (2,326) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HD2 | 13 | 0.15 |
| (2,326) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HD1 | 13 | 0.15 |
| (2,326) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HD2 | 13 | 0.15 |
| (2,326) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HD1 | 13 | 0.15 |
| (2,326) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HD2 | 13 | 0.15 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD11 | 2 | 0.15 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD12 | 2 | 0.15 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD13 | 2 | 0.15 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD11 | 2 | 0.15 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD12 | 2 | 0.15 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD13 | 2 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD11 | 2 | 0.15 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD12 | 2 | 0.15 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD13 | 2 | 0.15 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD11 | 3 | 0.15 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD12 | 3 | 0.15 |
| (2,323) | 1:688:B:ILE:HD11 | 1:684:B:ILE:HD13 | 3 | 0.15 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD11 | 3 | 0.15 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD12 | 3 | 0.15 |
| (2,323) | 1:688:B:ILE:HD12 | 1:684:B:ILE:HD13 | 3 | 0.15 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD11 | 3 | 0.15 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD12 | 3 | 0.15 |
| (2,323) | 1:688:B:ILE:HD13 | 1:684:B:ILE:HD13 | 3 | 0.15 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB2 | 12 | 0.15 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB3 | 12 | 0.15 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB2 | 12 | 0.15 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB3 | 12 | 0.15 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB2 | 12 | 0.15 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB3 | 12 | 0.15 |
| (2,259) | 1:670:B:TRP:H | 1:667:B:ALA:HA | 8 | 0.15 |
| (2,245) | 1:667:B:ALA:H | 1:666:B:TRP:HD1 | 12 | 0.15 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 7 | 0.15 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 12 | 0.15 |
| (2,228) | 1:665:B:LYS:H | 1:662:B:GLU:HA | 14 | 0.15 |
| (2,180) | 1:806:A:GLU:H | 1:771:B:LEU:HG | 10 | 0.15 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 14 | 0.15 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 14 | 0.15 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 14 | 0.15 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 14 | 0.15 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 11 | 0.15 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 11 | 0.15 |
| (2,153) | 1:792:A:ALA:H | 1:752:B:SER:HB2 | 12 | 0.15 |
| (2,153) | 1:792:A:ALA:H | 1:752:B:SER:HB3 | 12 | 0.15 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 4 | 0.15 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 4 | 0.15 |
| (2,135) | 1:756:B:ILE:H | 1:796:A:TRP:HE1 | 1 | 0.15 |
| (2,123) | 1:785:A:LEU:HD21 | 1:747:B:ARG:HD2 | 15 | 0.15 |
| (2,123) | 1:785:A:LEU:HD21 | 1:747:B:ARG:HD3 | 15 | 0.15 |
| (2,123) | 1:785:A:LEU:HD22 | 1:747:B:ARG:HD2 | 15 | 0.15 |
| (2,123) | 1:785:A:LEU:HD22 | 1:747:B:ARG:HD3 | 15 | 0.15 |
| (2,123) | 1:785:A:LEU:HD23 | 1:747:B:ARG:HD2 | 15 | 0.15 |
| (2,123) | 1:785:A:LEU:HD23 | 1:747:B:ARG:HD3 | 15 | 0.15 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD2 | 6 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD3 | 6 | 0.15 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD2 | 9 | 0.15 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD3 | 9 | 0.15 |
| (2,96) | 1:755:A:LEU:HD11 | 1:710:B:GLN:HE21 | 8 | 0.15 |
| (2,96) | 1:755:A:LEU:HD11 | 1:710:B:GLN:HE22 | 8 | 0.15 |
| (2,96) | 1:755:A:LEU:HD12 | 1:710:B:GLN:HE21 | 8 | 0.15 |
| (2,96) | 1:755:A:LEU:HD12 | 1:710:B:GLN:HE22 | 8 | 0.15 |
| (2,96) | 1:755:A:LEU:HD13 | 1:710:B:GLN:HE21 | 8 | 0.15 |
| (2,96) | 1:755:A:LEU:HD13 | 1:710:B:GLN:HE22 | 8 | 0.15 |
| (2,81) | 1:708:A:VAL:HG21 | 1:714:B:PRO:HA | 7 | 0.15 |
| (2,81) | 1:708:A:VAL:HG22 | 1:714:B:PRO:HA | 7 | 0.15 |
| (2,81) | 1:708:A:VAL:HG23 | 1:714:B:PRO:HA | 7 | 0.15 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB1 | 8 | 0.15 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB2 | 8 | 0.15 |
| (2,64) | 1:702:B:LEU:HD21 | 1:700:A:ALA:HB3 | 8 | 0.15 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB1 | 8 | 0.15 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB2 | 8 | 0.15 |
| (2,64) | 1:702:B:LEU:HD22 | 1:700:A:ALA:HB3 | 8 | 0.15 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB1 | 8 | 0.15 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB2 | 8 | 0.15 |
| (2,64) | 1:702:B:LEU:HD23 | 1:700:A:ALA:HB3 | 8 | 0.15 |
| (2,60) | 1:700:A:ALA:HB1 | 1:699:B:PHE:HD1 | 4 | 0.15 |
| (2,60) | 1:700:A:ALA:HB1 | 1:699:B:PHE:HD2 | 4 | 0.15 |
| (2,60) | 1:700:A:ALA:HB2 | 1:699:B:PHE:HD1 | 4 | 0.15 |
| (2,60) | 1:700:A:ALA:HB2 | 1:699:B:PHE:HD2 | 4 | 0.15 |
| (2,60) | 1:700:A:ALA:HB3 | 1:699:B:PHE:HD1 | 4 | 0.15 |
| (2,60) | 1:700:A:ALA:HB3 | 1:699:B:PHE:HD2 | 4 | 0.15 |
| (2,55) | 1:696:B:ARG:HE | 1:694:A:GLY:HA2 | 14 | 0.15 |
| (2,55) | 1:696:B:ARG:HE | 1:694:A:GLY:HA3 | 14 | 0.15 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD11 | 2 | 0.15 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD12 | 2 | 0.15 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD13 | 2 | 0.15 |
| (2,19) | 1:678:B:TRP:HE1 | 1:683:A:ARG:HE | 13 | 0.15 |
| (2,13) | 1:666:B:TRP:HE1 | 1:666:A:TRP:HD1 | 1 | 0.15 |
| (2,13) | 1:666:B:TRP:HE1 | 1:666:A:TRP:HD1 | 2 | 0.15 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB2 | 2 | 0.15 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB3 | 2 | 0.15 |
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB2 | 13 | 0.15 |
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB3 | 13 | 0.15 |
| (1,247) | 1:837:B:SER:O | 1:841:B:ARG:H | 13 | 0.15 |
| (1,245) | 1:836:B:ALA:O | 1:840:B:ILE:H | 5 | 0.15 |
| (1,243) | 1:835:B:GLY:O | 1:839:B:ALA:H | 4 | 0.15 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (1,233) | 1:830:B:ILE:O | 1:834:B:GLN:H | 8 | 0.15 |
| (1,225) | 1:826:B:THR:O | 1:830:B:ILE:H | 1 | 0.15 |
| (1,219) | 1:813:B:SER:O | 1:817:B:ALA:H | 11 | 0.15 |
| (1,199) | 1:803:B:TRP:O | 1:807:B:LEU:H | 15 | 0.15 |
| (1,192) | 1:799:B:LEU:O | 1:803:B:TRP:N | 1 | 0.15 |
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 1 | 0.15 |
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 11 | 0.15 |
| (1,177) | 1:792:B:ALA:O | 1:796:B:TRP:H | 5 | 0.15 |
| (1,176) | 1:791:B:GLU:O | 1:795:B:TYR:N | 1 | 0.15 |
| (1,161) | 1:837:B:SER:O | 1:841:B:ARG:H | 13 | 0.15 |
| (1,159) | 1:836:B:ALA:O | 1:840:B:ILE:H | 5 | 0.15 |
| (1,157) | 1:835:B:GLY:O | 1:839:B:ALA:H | 4 | 0.15 |
| (1,147) | 1:830:B:ILE:O | 1:834:B:GLN:H | 8 | 0.15 |
| (1,139) | 1:826:B:THR:O | 1:830:B:ILE:H | 1 | 0.15 |
| (1,133) | 1:813:B:SER:O | 1:817:B:ALA:H | 11 | 0.15 |
| (1,113) | 1:803:B:TRP:O | 1:807:B:LEU:H | 15 | 0.15 |
| (1,106) | 1:799:B:LEU:O | 1:803:B:TRP:N | 1 | 0.15 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 1 | 0.15 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 11 | 0.15 |
| (1,91) | 1:792:B:ALA:O | 1:796:B:TRP:H | 5 | 0.15 |
| (1,90) | 1:791:B:GLU:O | 1:795:B:TYR:N | 1 | 0.15 |
| (1,75) | 1:837:B:SER:O | 1:841:B:ARG:H | 13 | 0.15 |
| (1,73) | 1:836:B:ALA:O | 1:840:B:ILE:H | 5 | 0.15 |
| (1,71) | 1:835:B:GLY:O | 1:839:B:ALA:H | 4 | 0.15 |
| (1,61) | 1:830:B:ILE:O | 1:834:B:GLN:H | 8 | 0.15 |
| (1,53) | 1:826:B:THR:O | 1:830:B:ILE:H | 1 | 0.15 |
| (1,47) | 1:813:B:SER:O | 1:817:B:ALA:H | 11 | 0.15 |
| (1,27) | 1:803:B:TRP:O | 1:807:B:LEU:H | 15 | 0.15 |
| (1,20) | 1:799:B:LEU:O | 1:803:B:TRP:N | 1 | 0.15 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 1 | 0.15 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 11 | 0.15 |
| (1,5) | 1:792:B:ALA:O | 1:796:B:TRP:H | 5 | 0.15 |
| (1,4) | 1:791:B:GLU:O | 1:795:B:TYR:N | 1 | 0.15 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 2 | 0.14 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 2 | 0.14 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 2 | 0.14 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 2 | 0.14 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 2 | 0.14 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 3 | 0.14 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 3 | 0.14 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 3 | 0.14 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 13 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 13 | 0.14 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 13 | 0.14 |
| (2,1457) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 7 | 0.14 |
| (2,1457) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 7 | 0.14 |
| (2,1457) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 7 | 0.14 |
| (2,1451) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 1 | 0.14 |
| (2,1444) | 1:784:A:LEU:H | 1:782:A:VAL:HA | 7 | 0.14 |
| (2,1443) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 3 | 0.14 |
| (2,1443) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 10 | 0.14 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 4 | 0.14 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 10 | 0.14 |
| (2,1414) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 1 | 0.14 |
| (2,1414) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 1 | 0.14 |
| (2,1414) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 1 | 0.14 |
| (2,1395) | 1:775:A:LEU:HD11 | 1:772:A:ARG:HA | 8 | 0.14 |
| (2,1395) | 1:775:A:LEU:HD12 | 1:772:A:ARG:HA | 8 | 0.14 |
| (2,1395) | 1:775:A:LEU:HD13 | 1:772:A:ARG:HA | 8 | 0.14 |
| (2,1395) | 1:775:A:LEU:HD11 | 1:772:A:ARG:HA | 15 | 0.14 |
| (2,1395) | 1:775:A:LEU:HD12 | 1:772:A:ARG:HA | 15 | 0.14 |
| (2,1395) | 1:775:A:LEU:HD13 | 1:772:A:ARG:HA | 15 | 0.14 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 3 | 0.14 |
| (2,1373) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 3 | 0.14 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 6 | 0.14 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 6 | 0.14 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 6 | 0.14 |
| (2,1352) | 1:755:A:LEU:H | 1:752:A:SER:HA | 5 | 0.14 |
| (2,1350) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 6 | 0.14 |
| (2,1350) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 6 | 0.14 |
| (2,1350) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 6 | 0.14 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 3 | 0.14 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 3 | 0.14 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 3 | 0.14 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 3 | 0.14 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 3 | 0.14 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 3 | 0.14 |
| (2,1323) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD22 | 6 | 0.14 |
| (2,1323) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD22 | 6 | 0.14 |
| (2,1323) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD22 | 6 | 0.14 |
| (2,1321) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB2 | 4 | 0.14 |
| (2,1321) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB3 | 4 | 0.14 |
| (2,1321) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB2 | 4 | 0.14 |
| (2,1321) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB3 | 4 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1321) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB2 | 4 | 0.14 |
| (2,1321) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB3 | 4 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 14 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 14 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 14 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 14 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 14 | 0.14 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 14 | 0.14 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 3 | 0.14 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 15 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 12 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 12 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 12 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 12 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 12 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 12 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 13 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 13 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 13 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 13 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 13 | 0.14 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 13 | 0.14 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG21 | 3 | 0.14 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG22 | 3 | 0.14 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG23 | 3 | 0.14 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG21 | 3 | 0.14 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG22 | 3 | 0.14 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG23 | 3 | 0.14 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG21 | 3 | 0.14 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG22 | 3 | 0.14 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG23 | 3 | 0.14 |
| (2,1229) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB2 | 4 | 0.14 |
| (2,1229) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB3 | 4 | 0.14 |
| (2,1229) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB2 | 4 | 0.14 |
| (2,1229) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB3 | 4 | 0.14 |
| (2,1229) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB2 | 4 | 0.14 |
| (2,1229) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB3 | 4 | 0.14 |
| (2,1229) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB2 | 8 | 0.14 |
| (2,1229) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB3 | 8 | 0.14 |
| (2,1229) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB2 | 8 | 0.14 |
| (2,1229) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB3 | 8 | 0.14 |
| (2,1229) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB2 | 8 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1229) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB3 | 8 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE1 | 7 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE2 | 7 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE1 | 7 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE2 | 7 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE1 | 7 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE2 | 7 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE1 | 9 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE2 | 9 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE1 | 9 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE2 | 9 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE1 | 9 | 0.14 |
| (2,1228) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE2 | 9 | 0.14 |
| (2,1224) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 7 | 0.14 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 9 | 0.14 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 13 | 0.14 |
| (2,1217) | 1:700:A:ALA:HB1 | 1:697:A:ILE:HA | 15 | 0.14 |
| (2,1217) | 1:700:A:ALA:HB2 | 1:697:A:ILE:HA | 15 | 0.14 |
| (2,1217) | 1:700:A:ALA:HB3 | 1:697:A:ILE:HA | 15 | 0.14 |
| (2,1206) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 1 | 0.14 |
| (2,1206) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 1 | 0.14 |
| (2,1206) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 1 | 0.14 |
| (2,1195) | 1:695:A:LEU:HD21 | 1:698:A:VAL:HB | 13 | 0.14 |
| (2,1195) | 1:695:A:LEU:HD22 | 1:698:A:VAL:HB | 13 | 0.14 |
| (2,1195) | 1:695:A:LEU:HD23 | 1:698:A:VAL:HB | 13 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 4 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 4 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 4 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 4 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 4 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 4 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 11 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 11 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 11 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 11 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 11 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 11 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 12 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 12 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 12 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 12 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 12 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 12 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 15 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 15 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 15 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 15 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 15 | 0.14 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 15 | 0.14 |
| (2,1193) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB2 | 8 | 0.14 |
| (2,1193) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB3 | 8 | 0.14 |
| (2,1193) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB2 | 8 | 0.14 |
| (2,1193) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB3 | 8 | 0.14 |
| (2,1193) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB2 | 8 | 0.14 |
| (2,1193) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB3 | 8 | 0.14 |
| (2,1143) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 12 | 0.14 |
| (2,1143) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 12 | 0.14 |
| (2,1143) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 12 | 0.14 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 8 | 0.14 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 8 | 0.14 |
| (2,1134) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 8 | 0.14 |
| (2,1130) | 1:676:A:THR:HG21 | 1:681:A:TYR:HH | 4 | 0.14 |
| (2,1130) | 1:676:A:THR:HG22 | 1:681:A:TYR:HH | 4 | 0.14 |
| (2,1130) | 1:676:A:THR:HG23 | 1:681:A:TYR:HH | 4 | 0.14 |
| (2,1109) | 1:670:A:TRP:H | 1:667:A:ALA:HA | 6 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 7 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 7 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 7 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 7 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 7 | 0.14 |
| (2,1108) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 7 | 0.14 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 13 | 0.14 |
| (2,1092) | 1:667:A:ALA:H | 1:664:A:ASP:HA | 12 | 0.14 |
| (2,1091) | 1:666:A:TRP:HE1 | 1:662:A:GLU:H | 14 | 0.14 |
| (2,1091) | 1:666:A:TRP:HE1 | 1:662:A:GLU:H | 15 | 0.14 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 3 | 0.14 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 13 | 0.14 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 2 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 2 | 0.14 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 2 | 0.14 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 2 | 0.14 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 2 | 0.14 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 3 | 0.14 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 3 | 0.14 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 3 | 0.14 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 13 | 0.14 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 13 | 0.14 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 13 | 0.14 |
| (2,1032) | 1:785:A:LEU:HD21 | 1:782:A:VAL:HA | 7 | 0.14 |
| (2,1032) | 1:785:A:LEU:HD22 | 1:782:A:VAL:HA | 7 | 0.14 |
| (2,1032) | 1:785:A:LEU:HD23 | 1:782:A:VAL:HA | 7 | 0.14 |
| (2,1026) | 1:785:A:LEU:H | 1:782:A:VAL:HA | 1 | 0.14 |
| (2,1019) | 1:784:A:LEU:H | 1:782:A:VAL:HA | 7 | 0.14 |
| (2,1018) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 3 | 0.14 |
| (2,1018) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 10 | 0.14 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 4 | 0.14 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 10 | 0.14 |
| (2,989) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 1 | 0.14 |
| (2,989) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 1 | 0.14 |
| (2,989) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 1 | 0.14 |
| (2,970) | 1:775:A:LEU:HD11 | 1:772:A:ARG:HA | 8 | 0.14 |
| (2,970) | 1:775:A:LEU:HD12 | 1:772:A:ARG:HA | 8 | 0.14 |
| (2,970) | 1:775:A:LEU:HD13 | 1:772:A:ARG:HA | 8 | 0.14 |
| (2,970) | 1:775:A:LEU:HD11 | 1:772:A:ARG:HA | 15 | 0.14 |
| (2,970) | 1:775:A:LEU:HD12 | 1:772:A:ARG:HA | 15 | 0.14 |
| (2,970) | 1:775:A:LEU:HD13 | 1:772:A:ARG:HA | 15 | 0.14 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB2 | 3 | 0.14 |
| (2,948) | 1:764:A:SER:H | 1:771:A:LEU:HB3 | 3 | 0.14 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 6 | 0.14 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 6 | 0.14 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 6 | 0.14 |
| (2,927) | 1:755:A:LEU:H | 1:752:A:SER:HA | 5 | 0.14 |
| (2,925) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 6 | 0.14 |
| (2,925) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 6 | 0.14 |
| (2,925) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 6 | 0.14 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 3 | 0.14 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 3 | 0.14 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 3 | 0.14 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 3 | 0.14 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 3 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 3 | 0.14 |
| (2,898) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD22 | 6 | 0.14 |
| (2,898) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD22 | 6 | 0.14 |
| (2,898) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD22 | 6 | 0.14 |
| (2,896) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB2 | 4 | 0.14 |
| (2,896) | 1:746:A:ILE:HD11 | 1:743:A:ASP:HB3 | 4 | 0.14 |
| (2,896) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB2 | 4 | 0.14 |
| (2,896) | 1:746:A:ILE:HD12 | 1:743:A:ASP:HB3 | 4 | 0.14 |
| (2,896) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB2 | 4 | 0.14 |
| (2,896) | 1:746:A:ILE:HD13 | 1:743:A:ASP:HB3 | 4 | 0.14 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 14 | 0.14 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 14 | 0.14 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 14 | 0.14 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 14 | 0.14 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 14 | 0.14 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 14 | 0.14 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 3 | 0.14 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 15 | 0.14 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 12 | 0.14 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 12 | 0.14 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 12 | 0.14 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 12 | 0.14 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 12 | 0.14 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 12 | 0.14 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 13 | 0.14 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 13 | 0.14 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 13 | 0.14 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 13 | 0.14 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 13 | 0.14 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 13 | 0.14 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG21 | 3 | 0.14 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG22 | 3 | 0.14 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG23 | 3 | 0.14 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG21 | 3 | 0.14 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG22 | 3 | 0.14 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG23 | 3 | 0.14 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG21 | 3 | 0.14 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG22 | 3 | 0.14 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG23 | 3 | 0.14 |
| (2,804) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB2 | 4 | 0.14 |
| (2,804) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB3 | 4 | 0.14 |
| (2,804) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB2 | 4 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,804) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB3 | 4 | 0.14 |
| (2,804) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB2 | 4 | 0.14 |
| (2,804) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB3 | 4 | 0.14 |
| (2,804) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB2 | 8 | 0.14 |
| (2,804) | 1:702:A:LEU:HD21 | 1:706:A:ASN:HB3 | 8 | 0.14 |
| (2,804) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB2 | 8 | 0.14 |
| (2,804) | 1:702:A:LEU:HD22 | 1:706:A:ASN:HB3 | 8 | 0.14 |
| (2,804) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB2 | 8 | 0.14 |
| (2,804) | 1:702:A:LEU:HD23 | 1:706:A:ASN:HB3 | 8 | 0.14 |
| (2,803) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE1 | 7 | 0.14 |
| (2,803) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE2 | 7 | 0.14 |
| (2,803) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE1 | 7 | 0.14 |
| (2,803) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE2 | 7 | 0.14 |
| (2,803) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE1 | 7 | 0.14 |
| (2,803) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE2 | 7 | 0.14 |
| (2,803) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE1 | 9 | 0.14 |
| (2,803) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE2 | 9 | 0.14 |
| (2,803) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE1 | 9 | 0.14 |
| (2,803) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE2 | 9 | 0.14 |
| (2,803) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE1 | 9 | 0.14 |
| (2,803) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE2 | 9 | 0.14 |
| (2,799) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 7 | 0.14 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 9 | 0.14 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 13 | 0.14 |
| (2,792) | 1:700:A:ALA:HB1 | 1:697:A:ILE:HA | 15 | 0.14 |
| (2,792) | 1:700:A:ALA:HB2 | 1:697:A:ILE:HA | 15 | 0.14 |
| (2,792) | 1:700:A:ALA:HB3 | 1:697:A:ILE:HA | 15 | 0.14 |
| (2,781) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 1 | 0.14 |
| (2,781) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 1 | 0.14 |
| (2,781) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 1 | 0.14 |
| (2,770) | 1:695:A:LEU:HD21 | 1:698:A:VAL:HB | 13 | 0.14 |
| (2,770) | 1:695:A:LEU:HD22 | 1:698:A:VAL:HB | 13 | 0.14 |
| (2,770) | 1:695:A:LEU:HD23 | 1:698:A:VAL:HB | 13 | 0.14 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 4 | 0.14 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 4 | 0.14 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 4 | 0.14 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 4 | 0.14 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 4 | 0.14 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 4 | 0.14 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 11 | 0.14 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 11 | 0.14 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 11 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 11 | 0.14 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 11 | 0.14 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 11 | 0.14 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 12 | 0.14 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 12 | 0.14 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 12 | 0.14 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 12 | 0.14 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 12 | 0.14 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 12 | 0.14 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 15 | 0.14 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 15 | 0.14 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 15 | 0.14 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 15 | 0.14 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 15 | 0.14 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 15 | 0.14 |
| (2,768) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB2 | 8 | 0.14 |
| (2,768) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB3 | 8 | 0.14 |
| (2,768) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB2 | 8 | 0.14 |
| (2,768) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB3 | 8 | 0.14 |
| (2,768) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB2 | 8 | 0.14 |
| (2,768) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB3 | 8 | 0.14 |
| (2,718) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 12 | 0.14 |
| (2,718) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 12 | 0.14 |
| (2,718) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 12 | 0.14 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD11 | 8 | 0.14 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD12 | 8 | 0.14 |
| (2,709) | 1:678:A:TRP:HE1 | 1:675:A:ILE:HD13 | 8 | 0.14 |
| (2,705) | 1:676:A:THR:HG21 | 1:681:A:TYR:HH | 4 | 0.14 |
| (2,705) | 1:676:A:THR:HG22 | 1:681:A:TYR:HH | 4 | 0.14 |
| (2,705) | 1:676:A:THR:HG23 | 1:681:A:TYR:HH | 4 | 0.14 |
| (2,684) | 1:670:A:TRP:H | 1:667:A:ALA:HA | 6 | 0.14 |
| (2,683) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,683) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,683) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,683) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,683) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,683) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 5 | 0.14 |
| (2,683) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 7 | 0.14 |
| (2,683) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 7 | 0.14 |
| (2,683) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 7 | 0.14 |
| (2,683) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 7 | 0.14 |
| (2,683) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 7 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,683) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 7 | 0.14 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 13 | 0.14 |
| (2,667) | 1:667:A:ALA:H | 1:664:A:ASP:HA | 12 | 0.14 |
| (2,666) | 1:666:A:TRP:HE1 | 1:662:A:GLU:H | 14 | 0.14 |
| (2,666) | 1:666:A:TRP:HE1 | 1:662:A:GLU:H | 15 | 0.14 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 3 | 0.14 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 13 | 0.14 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD11 | 15 | 0.14 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD12 | 15 | 0.14 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD13 | 15 | 0.14 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD21 | 15 | 0.14 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD22 | 15 | 0.14 |
| (2,619) | 1:797:B:TRP:HE1 | 1:793:B:LEU:HD23 | 15 | 0.14 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD21 | 7 | 0.14 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD22 | 7 | 0.14 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD23 | 7 | 0.14 |
| (2,615) | 1:796:B:TRP:HE1 | 1:796:B:TRP:H | 15 | 0.14 |
| (2,599) | 1:784:B:LEU:HD11 | 1:787:B:ARG:HD2 | 14 | 0.14 |
| (2,599) | 1:784:B:LEU:HD11 | 1:787:B:ARG:HD3 | 14 | 0.14 |
| (2,599) | 1:784:B:LEU:HD12 | 1:787:B:ARG:HD2 | 14 | 0.14 |
| (2,599) | 1:784:B:LEU:HD12 | 1:787:B:ARG:HD3 | 14 | 0.14 |
| (2,599) | 1:784:B:LEU:HD13 | 1:787:B:ARG:HD2 | 14 | 0.14 |
| (2,599) | 1:784:B:LEU:HD13 | 1:787:B:ARG:HD3 | 14 | 0.14 |
| (2,580) | 1:781:B:ILE:HG21 | 1:778:B:VAL:HA | 3 | 0.14 |
| (2,580) | 1:781:B:ILE:HG22 | 1:778:B:VAL:HA | 3 | 0.14 |
| (2,580) | 1:781:B:ILE:HG23 | 1:778:B:VAL:HA | 3 | 0.14 |
| (2,576) | 1:781:B:ILE:H | 1:780:B:ARG:HA | 5 | 0.14 |
| (2,575) | 1:781:B:ILE:H | 1:778:B:VAL:HA | 3 | 0.14 |
| (2,519) | 1:763:B:LEU:HD11 | 1:764:B:SER:HG | 3 | 0.14 |
| (2,519) | 1:763:B:LEU:HD12 | 1:764:B:SER:HG | 3 | 0.14 |
| (2,519) | 1:763:B:LEU:HD13 | 1:764:B:SER:HG | 3 | 0.14 |
| (2,519) | 1:763:B:LEU:HD11 | 1:764:B:SER:HG | 15 | 0.14 |
| (2,519) | 1:763:B:LEU:HD12 | 1:764:B:SER:HG | 15 | 0.14 |
| (2,519) | 1:763:B:LEU:HD13 | 1:764:B:SER:HG | 15 | 0.14 |
| (2,515) | 1:760:B:LEU:HD11 | 1:757:B:TRP:HA | 5 | 0.14 |
| (2,515) | 1:760:B:LEU:HD12 | 1:757:B:TRP:HA | 5 | 0.14 |
| (2,515) | 1:760:B:LEU:HD13 | 1:757:B:TRP:HA | 5 | 0.14 |
| (2,515) | 1:760:B:LEU:HD11 | 1:757:B:TRP:HA | 15 | 0.14 |
| (2,515) | 1:760:B:LEU:HD12 | 1:757:B:TRP:HA | 15 | 0.14 |
| (2,515) | 1:760:B:LEU:HD13 | 1:757:B:TRP:HA | 15 | 0.14 |
| (2,509) | 1:758:B:ASP:H | 1:754:B:ALA:HB1 | 8 | 0.14 |
| (2,509) | 1:758:B:ASP:H | 1:754:B:ALA:HB2 | 8 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,509) | 1:758:B:ASP:H | 1:754:B:ALA:HB3 | 8 | 0.14 |
| (2,502) | 1:755:B:LEU:H | 1:752:B:SER:HA | 12 | 0.14 |
| (2,500) | 1:754:B:ALA:HB1 | 1:758:B:ASP:H | 8 | 0.14 |
| (2,500) | 1:754:B:ALA:HB2 | 1:758:B:ASP:H | 8 | 0.14 |
| (2,500) | 1:754:B:ALA:HB3 | 1:758:B:ASP:H | 8 | 0.14 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA2 | 1 | 0.14 |
| (2,498) | 1:754:B:ALA:HB1 | 1:751:B:GLY:HA3 | 1 | 0.14 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA2 | 1 | 0.14 |
| (2,498) | 1:754:B:ALA:HB2 | 1:751:B:GLY:HA3 | 1 | 0.14 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA2 | 1 | 0.14 |
| (2,498) | 1:754:B:ALA:HB3 | 1:751:B:GLY:HA3 | 1 | 0.14 |
| (2,482) | 1:749:B:VAL:H | 1:746:B:ILE:HA | 1 | 0.14 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD2 | 5 | 0.14 |
| (2,478) | 1:748:B:LEU:H | 1:744:B:ARG:HD3 | 5 | 0.14 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB2 | 4 | 0.14 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB3 | 4 | 0.14 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB2 | 4 | 0.14 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB3 | 4 | 0.14 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB2 | 4 | 0.14 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB3 | 4 | 0.14 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB2 | 9 | 0.14 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB3 | 9 | 0.14 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB2 | 9 | 0.14 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB3 | 9 | 0.14 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB2 | 9 | 0.14 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB3 | 9 | 0.14 |
| (2,446) | 1:710:B:GLN:HE21 | 1:706:B:ASN:HB2 | 8 | 0.14 |
| (2,446) | 1:710:B:GLN:HE21 | 1:706:B:ASN:HB3 | 8 | 0.14 |
| (2,446) | 1:710:B:GLN:HE22 | 1:706:B:ASN:HB2 | 8 | 0.14 |
| (2,446) | 1:710:B:GLN:HE22 | 1:706:B:ASN:HB3 | 8 | 0.14 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD11 | 7 | 0.14 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD12 | 7 | 0.14 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD13 | 7 | 0.14 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD21 | 7 | 0.14 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD22 | 7 | 0.14 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD23 | 7 | 0.14 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 11 | 0.14 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 11 | 0.14 |
| (2,407) | 1:706:B:ASN:H | 1:703:B:SER:HA | 12 | 0.14 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB2 | 5 | 0.14 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB3 | 5 | 0.14 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB2 | 5 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB3 | 5 | 0.14 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB2 | 5 | 0.14 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB3 | 5 | 0.14 |
| (2,405) | 1:705:B:VAL:HG21 | 1:702:B:LEU:HG | 5 | 0.14 |
| (2,405) | 1:705:B:VAL:HG22 | 1:702:B:LEU:HG | 5 | 0.14 |
| (2,405) | 1:705:B:VAL:HG23 | 1:702:B:LEU:HG | 5 | 0.14 |
| (2,403) | 1:705:B:VAL:HG11 | 1:709:B:ARG:HD2 | 9 | 0.14 |
| (2,403) | 1:705:B:VAL:HG11 | 1:709:B:ARG:HD3 | 9 | 0.14 |
| (2,403) | 1:705:B:VAL:HG12 | 1:709:B:ARG:HD2 | 9 | 0.14 |
| (2,403) | 1:705:B:VAL:HG12 | 1:709:B:ARG:HD3 | 9 | 0.14 |
| (2,403) | 1:705:B:VAL:HG13 | 1:709:B:ARG:HD2 | 9 | 0.14 |
| (2,403) | 1:705:B:VAL:HG13 | 1:709:B:ARG:HD3 | 9 | 0.14 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG21 | 7 | 0.14 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG22 | 7 | 0.14 |
| (2,395) | 1:704:B:LEU:HD11 | 1:708:B:VAL:HG23 | 7 | 0.14 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG21 | 7 | 0.14 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG22 | 7 | 0.14 |
| (2,395) | 1:704:B:LEU:HD12 | 1:708:B:VAL:HG23 | 7 | 0.14 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG21 | 7 | 0.14 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG22 | 7 | 0.14 |
| (2,395) | 1:704:B:LEU:HD13 | 1:708:B:VAL:HG23 | 7 | 0.14 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB2 | 1 | 0.14 |
| (2,379) | 1:702:B:LEU:HD21 | 1:706:B:ASN:HB3 | 1 | 0.14 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB2 | 1 | 0.14 |
| (2,379) | 1:702:B:LEU:HD22 | 1:706:B:ASN:HB3 | 1 | 0.14 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB2 | 1 | 0.14 |
| (2,379) | 1:702:B:LEU:HD23 | 1:706:B:ASN:HB3 | 1 | 0.14 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD1 | 7 | 0.14 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD2 | 7 | 0.14 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD1 | 7 | 0.14 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD2 | 7 | 0.14 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD1 | 7 | 0.14 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD2 | 7 | 0.14 |
| (2,374) | 1:702:B:LEU:H | 1:699:B:PHE:HA | 7 | 0.14 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 10 | 0.14 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 10 | 0.14 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 10 | 0.14 |
| (2,345) | 1:695:B:LEU:HD21 | 1:698:B:VAL:HB | 15 | 0.14 |
| (2,345) | 1:695:B:LEU:HD22 | 1:698:B:VAL:HB | 15 | 0.14 |
| (2,345) | 1:695:B:LEU:HD23 | 1:698:B:VAL:HB | 15 | 0.14 |
| (2,335) | 1:693:B:ILE:HD11 | 1:694:B:GLY:HA2 | 3 | 0.14 |
| (2,335) | 1:693:B:ILE:HD11 | 1:694:B:GLY:HA3 | 3 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,335) | 1:693:B:ILE:HD12 | 1:694:B:GLY:HA2 | 3 | 0.14 |
| (2,335) | 1:693:B:ILE:HD12 | 1:694:B:GLY:HA3 | 3 | 0.14 |
| (2,335) | 1:693:B:ILE:HD13 | 1:694:B:GLY:HA2 | 3 | 0.14 |
| (2,335) | 1:693:B:ILE:HD13 | 1:694:B:GLY:HA3 | 3 | 0.14 |
| (2,307) | 1:684:B:ILE:HG21 | 1:688:B:ILE:H | 1 | 0.14 |
| (2,307) | 1:684:B:ILE:HG22 | 1:688:B:ILE:H | 1 | 0.14 |
| (2,307) | 1:684:B:ILE:HG23 | 1:688:B:ILE:H | 1 | 0.14 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD1 | 13 | 0.14 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD2 | 13 | 0.14 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD1 | 13 | 0.14 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD2 | 13 | 0.14 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD1 | 13 | 0.14 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD2 | 13 | 0.14 |
| (2,301) | 1:684:B:ILE:HD11 | 1:681:B:TYR:HA | 4 | 0.14 |
| (2,301) | 1:684:B:ILE:HD12 | 1:681:B:TYR:HA | 4 | 0.14 |
| (2,301) | 1:684:B:ILE:HD13 | 1:681:B:TYR:HA | 4 | 0.14 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB2 | 15 | 0.14 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB3 | 15 | 0.14 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB2 | 15 | 0.14 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB3 | 15 | 0.14 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB2 | 15 | 0.14 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB3 | 15 | 0.14 |
| (2,292) | 1:681:B:TYR:H | 1:682:B:ILE:H | 11 | 0.14 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD11 | 9 | 0.14 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD12 | 9 | 0.14 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD13 | 9 | 0.14 |
| (2,286) | 1:678:B:TRP:HE1 | 1:682:B:ILE:H | 2 | 0.14 |
| (2,280) | 1:676:B:THR:HG21 | 1:681:B:TYR:HH | 1 | 0.14 |
| (2,280) | 1:676:B:THR:HG22 | 1:681:B:TYR:HH | 1 | 0.14 |
| (2,280) | 1:676:B:THR:HG23 | 1:681:B:TYR:HH | 1 | 0.14 |
| (2,272) | 1:674:B:ASP:H | 1:677:B:ASN:H | 10 | 0.14 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD11 | 7 | 0.14 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD12 | 7 | 0.14 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD13 | 7 | 0.14 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD21 | 7 | 0.14 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD22 | 7 | 0.14 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD23 | 7 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD11 | 4 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD12 | 4 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD13 | 4 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD21 | 4 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD22 | 4 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD23 | 4 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD11 | 13 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD12 | 13 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD13 | 13 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD21 | 13 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD22 | 13 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD23 | 13 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD11 | 14 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD12 | 14 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD13 | 14 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD21 | 14 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD22 | 14 | 0.14 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD23 | 14 | 0.14 |
| (2,259) | 1:670:B:TRP:H | 1:667:B:ALA:HA | 9 | 0.14 |
| (2,259) | 1:670:B:TRP:H | 1:667:B:ALA:HA | 10 | 0.14 |
| (2,253) | 1:669:B:LEU:H | 1:666:B:TRP:HA | 11 | 0.14 |
| (2,245) | 1:667:B:ALA:H | 1:666:B:TRP:HD1 | 1 | 0.14 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 3 | 0.14 |
| (2,225) | 1:664:B:ASP:H | 1:663:B:LEU:H | 10 | 0.14 |
| (2,219) | 1:663:B:LEU:H | 1:664:B:ASP:H | 10 | 0.14 |
| (2,214) | 1:661:B:LEU:HD11 | 1:662:B:GLU:HG2 | 7 | 0.14 |
| (2,214) | 1:661:B:LEU:HD11 | 1:662:B:GLU:HG3 | 7 | 0.14 |
| (2,214) | 1:661:B:LEU:HD12 | 1:662:B:GLU:HG2 | 7 | 0.14 |
| (2,214) | 1:661:B:LEU:HD12 | 1:662:B:GLU:HG3 | 7 | 0.14 |
| (2,214) | 1:661:B:LEU:HD13 | 1:662:B:GLU:HG2 | 7 | 0.14 |
| (2,214) | 1:661:B:LEU:HD13 | 1:662:B:GLU:HG3 | 7 | 0.14 |
| (2,214) | 1:661:B:LEU:HD21 | 1:662:B:GLU:HG2 | 7 | 0.14 |
| (2,214) | 1:661:B:LEU:HD21 | 1:662:B:GLU:HG3 | 7 | 0.14 |
| (2,214) | 1:661:B:LEU:HD22 | 1:662:B:GLU:HG2 | 7 | 0.14 |
| (2,214) | 1:661:B:LEU:HD22 | 1:662:B:GLU:HG3 | 7 | 0.14 |
| (2,214) | 1:661:B:LEU:HD23 | 1:662:B:GLU:HG2 | 7 | 0.14 |
| (2,214) | 1:661:B:LEU:HD23 | 1:662:B:GLU:HG3 | 7 | 0.14 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 4 | 0.14 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 4 | 0.14 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 4 | 0.14 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD2 | 1 | 0.14 |
| (2,208) | 1:839:B:ALA:H | 1:808:B:LYS:HD3 | 1 | 0.14 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 3 | 0.14 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 3 | 0.14 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 3 | 0.14 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 3 | 0.14 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 3 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 3 | 0.14 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 10 | 0.14 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 10 | 0.14 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 8 | 0.14 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 8 | 0.14 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 8 | 0.14 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 8 | 0.14 |
| (2,177) | 1:803:A:TRP:HE1 | 1:764:B:SER:HG | 10 | 0.14 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 1 | 0.14 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 1 | 0.14 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 1 | 0.14 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 1 | 0.14 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 9 | 0.14 |
| (2,159) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 9 | 0.14 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG12 | 9 | 0.14 |
| (2,158) | 1:794:A:LYS:H | 1:847:A:ILE:HG13 | 9 | 0.14 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 1 | 0.14 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 1 | 0.14 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG12 | 6 | 0.14 |
| (2,147) | 1:782:A:VAL:H | 1:746:B:ILE:HG13 | 6 | 0.14 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG12 | 9 | 0.14 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG13 | 9 | 0.14 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG12 | 13 | 0.14 |
| (2,142) | 1:781:A:ILE:H | 1:746:B:ILE:HG13 | 13 | 0.14 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB2 | 15 | 0.14 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB3 | 15 | 0.14 |
| (2,126) | 1:785:A:LEU:HD21 | 1:749:B:VAL:HB | 15 | 0.14 |
| (2,126) | 1:785:A:LEU:HD22 | 1:749:B:VAL:HB | 15 | 0.14 |
| (2,126) | 1:785:A:LEU:HD23 | 1:749:B:VAL:HB | 15 | 0.14 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 4 | 0.14 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 4 | 0.14 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 4 | 0.14 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 4 | 0.14 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 4 | 0.14 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 4 | 0.14 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD2 | 13 | 0.14 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD3 | 13 | 0.14 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD2 | 13 | 0.14 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD3 | 13 | 0.14 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD2 | 13 | 0.14 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD3 | 13 | 0.14 |
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD2 | 1 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,105) | 1:763:A:LEU:H | 1:742:B:ARG:HD3 | 1 | 0.14 |
| (2,96) | 1:755:A:LEU:HD11 | 1:710:B:GLN:HE21 | 3 | 0.14 |
| (2,96) | 1:755:A:LEU:HD11 | 1:710:B:GLN:HE22 | 3 | 0.14 |
| (2,96) | 1:755:A:LEU:HD12 | 1:710:B:GLN:HE21 | 3 | 0.14 |
| (2,96) | 1:755:A:LEU:HD12 | 1:710:B:GLN:HE22 | 3 | 0.14 |
| (2,96) | 1:755:A:LEU:HD13 | 1:710:B:GLN:HE21 | 3 | 0.14 |
| (2,96) | 1:755:A:LEU:HD13 | 1:710:B:GLN:HE22 | 3 | 0.14 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB2 | 14 | 0.14 |
| (2,93) | 1:754:A:ALA:H | 1:716:B:SER:HB3 | 14 | 0.14 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 1 | 0.14 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 1 | 0.14 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 1 | 0.14 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 1 | 0.14 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 1 | 0.14 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 1 | 0.14 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD11 | 13 | 0.14 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD12 | 13 | 0.14 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD13 | 13 | 0.14 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG12 | 6 | 0.14 |
| (2,42) | 1:693:A:ILE:H | 1:693:B:ILE:HG13 | 6 | 0.14 |
| (2,37) | 1:692:B:LEU:HD21 | 1:694:A:GLY:H | 6 | 0.14 |
| (2,37) | 1:692:B:LEU:HD22 | 1:694:A:GLY:H | 6 | 0.14 |
| (2,37) | 1:692:B:LEU:HD23 | 1:694:A:GLY:H | 6 | 0.14 |
| (2,37) | 1:692:B:LEU:HD21 | 1:694:A:GLY:H | 13 | 0.14 |
| (2,37) | 1:692:B:LEU:HD22 | 1:694:A:GLY:H | 13 | 0.14 |
| (2,37) | 1:692:B:LEU:HD23 | 1:694:A:GLY:H | 13 | 0.14 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG21 | 10 | 0.14 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG22 | 10 | 0.14 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG23 | 10 | 0.14 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG21 | 10 | 0.14 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG22 | 10 | 0.14 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG23 | 10 | 0.14 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG21 | 10 | 0.14 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG22 | 10 | 0.14 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG23 | 10 | 0.14 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB2 | 13 | 0.14 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB3 | 13 | 0.14 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB2 | 15 | 0.14 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB3 | 15 | 0.14 |
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB2 | 9 | 0.14 |
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB3 | 9 | 0.14 |
| (1,257) | 1:850:B:GLY:O | 1:854:B:ILE:H | 15 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (1,255) | 1:849:B:GLN:O | 1:853:B:ARG:H | 11 | 0.14 |
| (1,247) | 1:837:B:SER:O | 1:841:B:ARG:H | 10 | 0.14 |
| (1,245) | 1:836:B:ALA:O | 1:840:B:ILE:H | 2 | 0.14 |
| (1,245) | 1:836:B:ALA:O | 1:840:B:ILE:H | 4 | 0.14 |
| (1,241) | 1:834:B:GLN:O | 1:838:B:ARG:H | 8 | 0.14 |
| (1,233) | 1:830:B:ILE:O | 1:834:B:GLN:H | 9 | 0.14 |
| (1,219) | 1:813:B:SER:O | 1:817:B:ALA:H | 12 | 0.14 |
| (1,213) | 1:810:B:SER:O | 1:814:B:LEU:H | 14 | 0.14 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 5 | 0.14 |
| (1,191) | 1:799:B:LEU:O | 1:803:B:TRP:H | 11 | 0.14 |
| (1,191) | 1:799:B:LEU:O | 1:803:B:TRP:H | 12 | 0.14 |
| (1,189) | 1:798:B:ASN:O | 1:802:B:TYR:H | 11 | 0.14 |
| (1,189) | 1:798:B:ASN:O | 1:802:B:TYR:H | 13 | 0.14 |
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 3 | 0.14 |
| (1,177) | 1:792:B:ALA:O | 1:796:B:TRP:H | 3 | 0.14 |
| (1,176) | 1:791:B:GLU:O | 1:795:B:TYR:N | 10 | 0.14 |
| (1,175) | 1:791:B:GLU:O | 1:795:B:TYR:H | 2 | 0.14 |
| (1,171) | 1:850:B:GLY:O | 1:854:B:ILE:H | 15 | 0.14 |
| (1,169) | 1:849:B:GLN:O | 1:853:B:ARG:H | 11 | 0.14 |
| (1,161) | 1:837:B:SER:O | 1:841:B:ARG:H | 10 | 0.14 |
| (1,159) | 1:836:B:ALA:O | 1:840:B:ILE:H | 2 | 0.14 |
| (1,159) | 1:836:B:ALA:O | 1:840:B:ILE:H | 4 | 0.14 |
| (1,155) | 1:834:B:GLN:O | 1:838:B:ARG:H | 8 | 0.14 |
| (1,147) | 1:830:B:ILE:O | 1:834:B:GLN:H | 9 | 0.14 |
| (1,133) | 1:813:B:SER:O | 1:817:B:ALA:H | 12 | 0.14 |
| (1,127) | 1:810:B:SER:O | 1:814:B:LEU:H | 14 | 0.14 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 5 | 0.14 |
| (1,105) | 1:799:B:LEU:O | 1:803:B:TRP:H | 11 | 0.14 |
| (1,105) | 1:799:B:LEU:O | 1:803:B:TRP:H | 12 | 0.14 |
| (1,103) | 1:798:B:ASN:O | 1:802:B:TYR:H | 11 | 0.14 |
| (1,103) | 1:798:B:ASN:O | 1:802:B:TYR:H | 13 | 0.14 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 3 | 0.14 |
| (1,91) | 1:792:B:ALA:O | 1:796:B:TRP:H | 3 | 0.14 |
| (1,90) | 1:791:B:GLU:O | 1:795:B:TYR:N | 10 | 0.14 |
| (1,89) | 1:791:B:GLU:O | 1:795:B:TYR:H | 2 | 0.14 |
| (1,85) | 1:850:B:GLY:O | 1:854:B:ILE:H | 15 | 0.14 |
| (1,83) | 1:849:B:GLN:O | 1:853:B:ARG:H | 11 | 0.14 |
| (1,75) | 1:837:B:SER:O | 1:841:B:ARG:H | 10 | 0.14 |
| (1,73) | 1:836:B:ALA:O | 1:840:B:ILE:H | 2 | 0.14 |
| (1,73) | 1:836:B:ALA:O | 1:840:B:ILE:H | 4 | 0.14 |
| (1,69) | 1:834:B:GLN:O | 1:838:B:ARG:H | 8 | 0.14 |
| (1,61) | 1:830:B:ILE:O | 1:834:B:GLN:H | 9 | 0.14 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (1,47) | 1:813:B:SER:O | 1:817:B:ALA:H | 12 | 0.14 |
| (1,41) | 1:810:B:SER:O | 1:814:B:LEU:H | 14 | 0.14 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 5 | 0.14 |
| (1,19) | 1:799:B:LEU:O | 1:803:B:TRP:H | 11 | 0.14 |
| (1,19) | 1:799:B:LEU:O | 1:803:B:TRP:H | 12 | 0.14 |
| (1,17) | 1:798:B:ASN:O | 1:802:B:TYR:H | 11 | 0.14 |
| (1,17) | 1:798:B:ASN:O | 1:802:B:TYR:H | 13 | 0.14 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 3 | 0.14 |
| (1,5) | 1:792:B:ALA:O | 1:796:B:TRP:H | 3 | 0.14 |
| (1,4) | 1:791:B:GLU:O | 1:795:B:TYR:N | 10 | 0.14 |
| (1,3) | 1:791:B:GLU:O | 1:795:B:TYR:H | 2 | 0.14 |
| (2,1487) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD2 | 9 | 0.13 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 8 | 0.13 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 8 | 0.13 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 8 | 0.13 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 8 | 0.13 |
| (2,1467) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 8 | 0.13 |
| (2,1465) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 5 | 0.13 |
| (2,1436) | 1:782:A:VAL:HG21 | 1:779:A:THR:HA | 11 | 0.13 |
| (2,1436) | 1:782:A:VAL:HG22 | 1:779:A:THR:HA | 11 | 0.13 |
| (2,1436) | 1:782:A:VAL:HG23 | 1:779:A:THR:HA | 11 | 0.13 |
| (2,1431) | 1:782:A:VAL:H | 1:779:A:THR:HA | 8 | 0.13 |
| (2,1426) | 1:781:A:ILE:H | 1:780:A:ARG:HA | 3 | 0.13 |
| (2,1426) | 1:781:A:ILE:H | 1:780:A:ARG:HA | 9 | 0.13 |
| (2,1415) | 1:779:A:THR:H | 1:776:A:LEU:HA | 3 | 0.13 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 1 | 0.13 |
| (2,1408) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 1 | 0.13 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 1 | 0.13 |
| (2,1408) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 1 | 0.13 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 1 | 0.13 |
| (2,1408) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 1 | 0.13 |
| (2,1402) | 1:777:A:ILE:H | 1:774:A:LEU:HA | 13 | 0.13 |
| (2,1397) | 1:776:A:LEU:H | 1:775:A:LEU:HA | 10 | 0.13 |
| (2,1376) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE1 | 5 | 0.13 |
| (2,1376) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE2 | 5 | 0.13 |
| (2,1376) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE1 | 5 | 0.13 |
| (2,1376) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE2 | 5 | 0.13 |
| (2,1376) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE1 | 5 | 0.13 |
| (2,1376) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE2 | 5 | 0.13 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 3 | 0.13 |
| (2,1370) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 3 | 0.13 |
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 3 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1370) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 3 | 0.13 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 3 | 0.13 |
| (2,1370) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 3 | 0.13 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 12 | 0.13 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 12 | 0.13 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 12 | 0.13 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 12 | 0.13 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 12 | 0.13 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 12 | 0.13 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 1 | 0.13 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 1 | 0.13 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 1 | 0.13 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 12 | 0.13 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 12 | 0.13 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 12 | 0.13 |
| (2,1357) | 1:755:A:LEU:HD21 | 1:759:A:ASP:HB3 | 12 | 0.13 |
| (2,1357) | 1:755:A:LEU:HD22 | 1:759:A:ASP:HB3 | 12 | 0.13 |
| (2,1357) | 1:755:A:LEU:HD23 | 1:759:A:ASP:HB3 | 12 | 0.13 |
| (2,1352) | 1:755:A:LEU:H | 1:752:A:SER:HA | 13 | 0.13 |
| (2,1350) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 1 | 0.13 |
| (2,1350) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 1 | 0.13 |
| (2,1350) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 1 | 0.13 |
| (2,1350) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 12 | 0.13 |
| (2,1350) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 12 | 0.13 |
| (2,1350) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 12 | 0.13 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 12 | 0.13 |
| (2,1342) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 12 | 0.13 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 12 | 0.13 |
| (2,1342) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 12 | 0.13 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 12 | 0.13 |
| (2,1342) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 12 | 0.13 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 15 | 0.13 |
| (2,1341) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 15 | 0.13 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 15 | 0.13 |
| (2,1341) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 15 | 0.13 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 15 | 0.13 |
| (2,1341) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 15 | 0.13 |
| (2,1332) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 6 | 0.13 |
| (2,1324) | 1:747:A:ARG:H | 1:744:A:ARG:HA | 8 | 0.13 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 1 | 0.13 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 1 | 0.13 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 1 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 1 | 0.13 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 1 | 0.13 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 1 | 0.13 |
| (2,1270) | 1:707:A:ARG:H | 1:707:A:ARG:HG2 | 1 | 0.13 |
| (2,1270) | 1:707:A:ARG:H | 1:707:A:ARG:HG3 | 1 | 0.13 |
| (2,1270) | 1:707:A:ARG:H | 1:707:A:ARG:HG2 | 13 | 0.13 |
| (2,1270) | 1:707:A:ARG:H | 1:707:A:ARG:HG3 | 13 | 0.13 |
| (2,1253) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD2 | 13 | 0.13 |
| (2,1253) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD3 | 13 | 0.13 |
| (2,1253) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD2 | 13 | 0.13 |
| (2,1253) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD3 | 13 | 0.13 |
| (2,1253) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD2 | 13 | 0.13 |
| (2,1253) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD3 | 13 | 0.13 |
| (2,1246) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 2 | 0.13 |
| (2,1235) | 1:704:A:LEU:H | 1:701:A:VAL:HA | 3 | 0.13 |
| (2,1228) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE1 | 8 | 0.13 |
| (2,1228) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE2 | 8 | 0.13 |
| (2,1228) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE1 | 8 | 0.13 |
| (2,1228) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE2 | 8 | 0.13 |
| (2,1228) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE1 | 8 | 0.13 |
| (2,1228) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE2 | 8 | 0.13 |
| (2,1222) | 1:701:A:VAL:HG11 | 1:698:A:VAL:HA | 2 | 0.13 |
| (2,1222) | 1:701:A:VAL:HG12 | 1:698:A:VAL:HA | 2 | 0.13 |
| (2,1222) | 1:701:A:VAL:HG13 | 1:698:A:VAL:HA | 2 | 0.13 |
| (2,1219) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 12 | 0.13 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 5 | 0.13 |
| (2,1207) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 5 | 0.13 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 5 | 0.13 |
| (2,1207) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 5 | 0.13 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 5 | 0.13 |
| (2,1207) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 5 | 0.13 |
| (2,1205) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 4 | 0.13 |
| (2,1205) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 4 | 0.13 |
| (2,1205) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 4 | 0.13 |
| (2,1205) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 10 | 0.13 |
| (2,1205) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 10 | 0.13 |
| (2,1205) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 10 | 0.13 |
| (2,1195) | 1:695:A:LEU:HD21 | 1:698:A:VAL:HB | 3 | 0.13 |
| (2,1195) | 1:695:A:LEU:HD22 | 1:698:A:VAL:HB | 3 | 0.13 |
| (2,1195) | 1:695:A:LEU:HD23 | 1:698:A:VAL:HB | 3 | 0.13 |
| (2,1193) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB2 | 13 | 0.13 |
| (2,1193) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB3 | 13 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,1193) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB2 | 13 | 0.13 |
| (2,1193) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB3 | 13 | 0.13 |
| (2,1193) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB2 | 13 | 0.13 |
| (2,1193) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB3 | 13 | 0.13 |
| (2,1186) | 1:693:A:ILE:HD11 | 1:697:A:ILE:H | 3 | 0.13 |
| (2,1186) | 1:693:A:ILE:HD12 | 1:697:A:ILE:H | 3 | 0.13 |
| (2,1186) | 1:693:A:ILE:HD13 | 1:697:A:ILE:H | 3 | 0.13 |
| (2,1172) | 1:687:A:ILE:HG21 | 1:691:A:SER:HG | 11 | 0.13 |
| (2,1172) | 1:687:A:ILE:HG22 | 1:691:A:SER:HG | 11 | 0.13 |
| (2,1172) | 1:687:A:ILE:HG23 | 1:691:A:SER:HG | 11 | 0.13 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 5 | 0.13 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 5 | 0.13 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 5 | 0.13 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 5 | 0.13 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 5 | 0.13 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 5 | 0.13 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD11 | 12 | 0.13 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD12 | 12 | 0.13 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD13 | 12 | 0.13 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD21 | 12 | 0.13 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD22 | 12 | 0.13 |
| (2,1135) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD23 | 12 | 0.13 |
| (2,1130) | 1:676:A:THR:HG21 | 1:681:A:TYR:HH | 7 | 0.13 |
| (2,1130) | 1:676:A:THR:HG22 | 1:681:A:TYR:HH | 7 | 0.13 |
| (2,1130) | 1:676:A:THR:HG23 | 1:681:A:TYR:HH | 7 | 0.13 |
| (2,1126) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 12 | 0.13 |
| (2,1126) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 12 | 0.13 |
| (2,1126) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 12 | 0.13 |
| (2,1109) | 1:670:A:TRP:H | 1:667:A:ALA:HA | 13 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 14 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 14 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 14 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 14 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 14 | 0.13 |
| (2,1108) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 14 | 0.13 |
| (2,1095) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 3 | 0.13 |
| (2,1091) | 1:666:A:TRP:HE1 | 1:662:A:GLU:H | 12 | 0.13 |
| (2,1079) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 9 | 0.13 |
| (2,1078) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 1 | 0.13 |
| (2,1078) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 12 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 5 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 5 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 5 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 5 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 5 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 5 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,1062) | 1:770:A:ARG:HH21 | 1:773:A:ASP:OD2 | 9 | 0.13 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 8 | 0.13 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 8 | 0.13 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD21 | 8 | 0.13 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD22 | 8 | 0.13 |
| (2,1042) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD23 | 8 | 0.13 |
| (2,1040) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 5 | 0.13 |
| (2,1011) | 1:782:A:VAL:HG21 | 1:779:A:THR:HA | 11 | 0.13 |
| (2,1011) | 1:782:A:VAL:HG22 | 1:779:A:THR:HA | 11 | 0.13 |
| (2,1011) | 1:782:A:VAL:HG23 | 1:779:A:THR:HA | 11 | 0.13 |
| (2,1006) | 1:782:A:VAL:H | 1:779:A:THR:HA | 8 | 0.13 |
| (2,1001) | 1:781:A:ILE:H | 1:780:A:ARG:HA | 3 | 0.13 |
| (2,1001) | 1:781:A:ILE:H | 1:780:A:ARG:HA | 9 | 0.13 |
| (2,990) | 1:779:A:THR:H | 1:776:A:LEU:HA | 3 | 0.13 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD2 | 1 | 0.13 |
| (2,983) | 1:777:A:ILE:HG21 | 1:780:A:ARG:HD3 | 1 | 0.13 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD2 | 1 | 0.13 |
| (2,983) | 1:777:A:ILE:HG22 | 1:780:A:ARG:HD3 | 1 | 0.13 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD2 | 1 | 0.13 |
| (2,983) | 1:777:A:ILE:HG23 | 1:780:A:ARG:HD3 | 1 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,977) | 1:777:A:ILE:H | 1:774:A:LEU:HA | 13 | 0.13 |
| (2,972) | 1:776:A:LEU:H | 1:775:A:LEU:HA | 10 | 0.13 |
| (2,951) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE1 | 5 | 0.13 |
| (2,951) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE2 | 5 | 0.13 |
| (2,951) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE1 | 5 | 0.13 |
| (2,951) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE2 | 5 | 0.13 |
| (2,951) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE1 | 5 | 0.13 |
| (2,951) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE2 | 5 | 0.13 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE1 | 3 | 0.13 |
| (2,945) | 1:763:A:LEU:HD21 | 1:768:A:TYR:HE2 | 3 | 0.13 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE1 | 3 | 0.13 |
| (2,945) | 1:763:A:LEU:HD22 | 1:768:A:TYR:HE2 | 3 | 0.13 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE1 | 3 | 0.13 |
| (2,945) | 1:763:A:LEU:HD23 | 1:768:A:TYR:HE2 | 3 | 0.13 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 12 | 0.13 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 12 | 0.13 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 12 | 0.13 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 12 | 0.13 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 12 | 0.13 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 12 | 0.13 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 1 | 0.13 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 1 | 0.13 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 1 | 0.13 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 12 | 0.13 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 12 | 0.13 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 12 | 0.13 |
| (2,932) | 1:755:A:LEU:HD21 | 1:759:A:ASP:HB3 | 12 | 0.13 |
| (2,932) | 1:755:A:LEU:HD22 | 1:759:A:ASP:HB3 | 12 | 0.13 |
| (2,932) | 1:755:A:LEU:HD23 | 1:759:A:ASP:HB3 | 12 | 0.13 |
| (2,927) | 1:755:A:LEU:H | 1:752:A:SER:HA | 13 | 0.13 |
| (2,925) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 1 | 0.13 |
| (2,925) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 1 | 0.13 |
| (2,925) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 1 | 0.13 |
| (2,925) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 12 | 0.13 |
| (2,925) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 12 | 0.13 |
| (2,925) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 12 | 0.13 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB2 | 12 | 0.13 |
| (2,917) | 1:753:A:LEU:HD21 | 1:750:A:ASN:HB3 | 12 | 0.13 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB2 | 12 | 0.13 |
| (2,917) | 1:753:A:LEU:HD22 | 1:750:A:ASN:HB3 | 12 | 0.13 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB2 | 12 | 0.13 |
| (2,917) | 1:753:A:LEU:HD23 | 1:750:A:ASN:HB3 | 12 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB2 | 15 | 0.13 |
| (2,916) | 1:753:A:LEU:HD11 | 1:757:A:TRP:HB3 | 15 | 0.13 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB2 | 15 | 0.13 |
| (2,916) | 1:753:A:LEU:HD12 | 1:757:A:TRP:HB3 | 15 | 0.13 |
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB2 | 15 | 0.13 |
| (2,916) | 1:753:A:LEU:HD13 | 1:757:A:TRP:HB3 | 15 | 0.13 |
| (2,907) | 1:749:A:VAL:H | 1:746:A:ILE:HA | 6 | 0.13 |
| (2,899) | 1:747:A:ARG:H | 1:744:A:ARG:HA | 8 | 0.13 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 1 | 0.13 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 1 | 0.13 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 1 | 0.13 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 1 | 0.13 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 1 | 0.13 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 1 | 0.13 |
| (2,845) | 1:707:A:ARG:H | 1:707:A:ARG:HG2 | 1 | 0.13 |
| (2,845) | 1:707:A:ARG:H | 1:707:A:ARG:HG3 | 1 | 0.13 |
| (2,845) | 1:707:A:ARG:H | 1:707:A:ARG:HG2 | 13 | 0.13 |
| (2,845) | 1:707:A:ARG:H | 1:707:A:ARG:HG3 | 13 | 0.13 |
| (2,828) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD2 | 13 | 0.13 |
| (2,828) | 1:705:A:VAL:HG11 | 1:709:A:ARG:HD3 | 13 | 0.13 |
| (2,828) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD2 | 13 | 0.13 |
| (2,828) | 1:705:A:VAL:HG12 | 1:709:A:ARG:HD3 | 13 | 0.13 |
| (2,828) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD2 | 13 | 0.13 |
| (2,828) | 1:705:A:VAL:HG13 | 1:709:A:ARG:HD3 | 13 | 0.13 |
| (2,821) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 2 | 0.13 |
| (2,810) | 1:704:A:LEU:H | 1:701:A:VAL:HA | 3 | 0.13 |
| (2,803) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE1 | 8 | 0.13 |
| (2,803) | 1:702:A:LEU:HD11 | 1:699:A:PHE:HE2 | 8 | 0.13 |
| (2,803) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE1 | 8 | 0.13 |
| (2,803) | 1:702:A:LEU:HD12 | 1:699:A:PHE:HE2 | 8 | 0.13 |
| (2,803) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE1 | 8 | 0.13 |
| (2,803) | 1:702:A:LEU:HD13 | 1:699:A:PHE:HE2 | 8 | 0.13 |
| (2,797) | 1:701:A:VAL:HG11 | 1:698:A:VAL:HA | 2 | 0.13 |
| (2,797) | 1:701:A:VAL:HG12 | 1:698:A:VAL:HA | 2 | 0.13 |
| (2,797) | 1:701:A:VAL:HG13 | 1:698:A:VAL:HA | 2 | 0.13 |
| (2,794) | 1:701:A:VAL:H | 1:698:A:VAL:HA | 12 | 0.13 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD1 | 5 | 0.13 |
| (2,782) | 1:698:A:VAL:HG11 | 1:699:A:PHE:HD2 | 5 | 0.13 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD1 | 5 | 0.13 |
| (2,782) | 1:698:A:VAL:HG12 | 1:699:A:PHE:HD2 | 5 | 0.13 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD1 | 5 | 0.13 |
| (2,782) | 1:698:A:VAL:HG13 | 1:699:A:PHE:HD2 | 5 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,780) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 4 | 0.13 |
| (2,780) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 4 | 0.13 |
| (2,780) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 4 | 0.13 |
| (2,780) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 10 | 0.13 |
| (2,780) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 10 | 0.13 |
| (2,780) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 10 | 0.13 |
| (2,770) | 1:695:A:LEU:HD21 | 1:698:A:VAL:HB | 3 | 0.13 |
| (2,770) | 1:695:A:LEU:HD22 | 1:698:A:VAL:HB | 3 | 0.13 |
| (2,770) | 1:695:A:LEU:HD23 | 1:698:A:VAL:HB | 3 | 0.13 |
| (2,768) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB2 | 13 | 0.13 |
| (2,768) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB3 | 13 | 0.13 |
| (2,768) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB2 | 13 | 0.13 |
| (2,768) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB3 | 13 | 0.13 |
| (2,768) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB2 | 13 | 0.13 |
| (2,768) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB3 | 13 | 0.13 |
| (2,761) | 1:693:A:ILE:HD11 | 1:697:A:ILE:H | 3 | 0.13 |
| (2,761) | 1:693:A:ILE:HD12 | 1:697:A:ILE:H | 3 | 0.13 |
| (2,761) | 1:693:A:ILE:HD13 | 1:697:A:ILE:H | 3 | 0.13 |
| (2,747) | 1:687:A:ILE:HG21 | 1:691:A:SER:HG | 11 | 0.13 |
| (2,747) | 1:687:A:ILE:HG22 | 1:691:A:SER:HG | 11 | 0.13 |
| (2,747) | 1:687:A:ILE:HG23 | 1:691:A:SER:HG | 11 | 0.13 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 5 | 0.13 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 5 | 0.13 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 5 | 0.13 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 5 | 0.13 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 5 | 0.13 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 5 | 0.13 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD11 | 12 | 0.13 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD12 | 12 | 0.13 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD13 | 12 | 0.13 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD21 | 12 | 0.13 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD22 | 12 | 0.13 |
| (2,710) | 1:678:A:TRP:HE1 | 1:679:A:LEU:HD23 | 12 | 0.13 |
| (2,705) | 1:676:A:THR:HG21 | 1:681:A:TYR:HH | 7 | 0.13 |
| (2,705) | 1:676:A:THR:HG22 | 1:681:A:TYR:HH | 7 | 0.13 |
| (2,705) | 1:676:A:THR:HG23 | 1:681:A:TYR:HH | 7 | 0.13 |
| (2,701) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 12 | 0.13 |
| (2,701) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 12 | 0.13 |
| (2,701) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 12 | 0.13 |
| (2,684) | 1:670:A:TRP:H | 1:667:A:ALA:HA | 13 | 0.13 |
| (2,683) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 14 | 0.13 |
| (2,683) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 14 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,683) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 14 | 0.13 |
| (2,683) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 14 | 0.13 |
| (2,683) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 14 | 0.13 |
| (2,683) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 14 | 0.13 |
| (2,670) | 1:667:A:ALA:H | 1:666:A:TRP:HD1 | 3 | 0.13 |
| (2,666) | 1:666:A:TRP:HE1 | 1:662:A:GLU:H | 12 | 0.13 |
| (2,654) | 1:665:A:LYS:H | 1:664:A:ASP:HA | 9 | 0.13 |
| (2,653) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 1 | 0.13 |
| (2,653) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 12 | 0.13 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 5 | 0.13 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 15 | 0.13 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 15 | 0.13 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 7 | 0.13 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 7 | 0.13 |
| (2,630) | 1:835:B:GLY:H | 1:834:B:GLN:HE21 | 14 | 0.13 |
| (2,630) | 1:835:B:GLY:H | 1:834:B:GLN:HE22 | 14 | 0.13 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD11 | 4 | 0.13 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD12 | 4 | 0.13 |
| (2,627) | 1:819:B:ALA:H | 1:820:B:ILE:HD13 | 4 | 0.13 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB2 | 5 | 0.13 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB3 | 5 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB2 | 12 | 0.13 |
| (2,625) | 1:806:B:GLU:H | 1:803:B:TRP:HB3 | 12 | 0.13 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD11 | 8 | 0.13 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD12 | 8 | 0.13 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD13 | 8 | 0.13 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD21 | 8 | 0.13 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD22 | 8 | 0.13 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD23 | 8 | 0.13 |
| (2,618) | 1:797:B:TRP:H | 1:796:B:TRP:HD1 | 15 | 0.13 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD21 | 13 | 0.13 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD22 | 13 | 0.13 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD23 | 13 | 0.13 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 6 | 0.13 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 6 | 0.13 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 6 | 0.13 |
| (2,615) | 1:796:B:TRP:HE1 | 1:796:B:TRP:H | 6 | 0.13 |
| (2,615) | 1:796:B:TRP:HE1 | 1:796:B:TRP:H | 14 | 0.13 |
| (2,601) | 1:785:B:LEU:H | 1:782:B:VAL:HA | 4 | 0.13 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD2 | 2 | 0.13 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD3 | 2 | 0.13 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 4 | 0.13 |
| (2,576) | 1:781:B:ILE:H | 1:780:B:ARG:HA | 1 | 0.13 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 2 | 0.13 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD2 | 14 | 0.13 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD3 | 14 | 0.13 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD2 | 14 | 0.13 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD3 | 14 | 0.13 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD2 | 14 | 0.13 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD3 | 14 | 0.13 |
| (2,545) | 1:775:B:LEU:HD11 | 1:772:B:ARG:HA | 14 | 0.13 |
| (2,545) | 1:775:B:LEU:HD12 | 1:772:B:ARG:HA | 14 | 0.13 |
| (2,545) | 1:775:B:LEU:HD13 | 1:772:B:ARG:HA | 14 | 0.13 |
| (2,541) | 1:775:B:LEU:H | 1:774:B:LEU:HA | 3 | 0.13 |
| (2,530) | 1:773:B:ASP:H | 1:770:B:ARG:HA | 11 | 0.13 |
| (2,522) | 1:764:B:SER:H | 1:761:B:ARG:HA | 12 | 0.13 |
| (2,507) | 1:755:B:LEU:HD21 | 1:759:B:ASP:HB3 | 4 | 0.13 |
| (2,507) | 1:755:B:LEU:HD22 | 1:759:B:ASP:HB3 | 4 | 0.13 |
| (2,507) | 1:755:B:LEU:HD23 | 1:759:B:ASP:HB3 | 4 | 0.13 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB2 | 7 | 0.13 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB3 | 7 | 0.13 |
| (2,473) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD22 | 13 | 0.13 |
| (2,473) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD22 | 13 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,473) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD22 | 13 | 0.13 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB2 | 11 | 0.13 |
| (2,471) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HB3 | 11 | 0.13 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB2 | 11 | 0.13 |
| (2,471) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HB3 | 11 | 0.13 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB2 | 11 | 0.13 |
| (2,471) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HB3 | 11 | 0.13 |
| (2,465) | 1:746:B:ILE:H | 1:743:B:ASP:HB2 | 15 | 0.13 |
| (2,465) | 1:746:B:ILE:H | 1:743:B:ASP:HB3 | 15 | 0.13 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 1 | 0.13 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 1 | 0.13 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 13 | 0.13 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 13 | 0.13 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB2 | 3 | 0.13 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB3 | 3 | 0.13 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB2 | 3 | 0.13 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB3 | 3 | 0.13 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB2 | 3 | 0.13 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB3 | 3 | 0.13 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB2 | 6 | 0.13 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB3 | 6 | 0.13 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB2 | 6 | 0.13 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB3 | 6 | 0.13 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB2 | 6 | 0.13 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB3 | 6 | 0.13 |
| (2,390) | 1:704:B:LEU:H | 1:704:B:LEU:HB3 | 10 | 0.13 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD1 | 14 | 0.13 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD2 | 14 | 0.13 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD1 | 14 | 0.13 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD2 | 14 | 0.13 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD1 | 14 | 0.13 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD2 | 14 | 0.13 |
| (2,358) | 1:698:B:VAL:HG11 | 1:702:B:LEU:HB2 | 14 | 0.13 |
| (2,358) | 1:698:B:VAL:HG11 | 1:702:B:LEU:HB3 | 14 | 0.13 |
| (2,358) | 1:698:B:VAL:HG12 | 1:702:B:LEU:HB2 | 14 | 0.13 |
| (2,358) | 1:698:B:VAL:HG12 | 1:702:B:LEU:HB3 | 14 | 0.13 |
| (2,358) | 1:698:B:VAL:HG13 | 1:702:B:LEU:HB2 | 14 | 0.13 |
| (2,358) | 1:698:B:VAL:HG13 | 1:702:B:LEU:HB3 | 14 | 0.13 |
| (2,340) | 1:693:B:ILE:HG21 | 1:696:B:ARG:HG2 | 13 | 0.13 |
| (2,340) | 1:693:B:ILE:HG21 | 1:696:B:ARG:HG3 | 13 | 0.13 |
| (2,340) | 1:693:B:ILE:HG22 | 1:696:B:ARG:HG2 | 13 | 0.13 |
| (2,340) | 1:693:B:ILE:HG22 | 1:696:B:ARG:HG3 | 13 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,340) | 1:693:B:ILE:HG23 | 1:696:B:ARG:HG2 | 13 | 0.13 |
| (2,340) | 1:693:B:ILE:HG23 | 1:696:B:ARG:HG3 | 13 | 0.13 |
| (2,338) | 1:693:B:ILE:HG21 | 1:693:B:ILE:H | 10 | 0.13 |
| (2,338) | 1:693:B:ILE:HG22 | 1:693:B:ILE:H | 10 | 0.13 |
| (2,338) | 1:693:B:ILE:HG23 | 1:693:B:ILE:H | 10 | 0.13 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD1 | 1 | 0.13 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD2 | 1 | 0.13 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD1 | 1 | 0.13 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD2 | 1 | 0.13 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD1 | 1 | 0.13 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD2 | 1 | 0.13 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD1 | 6 | 0.13 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD2 | 6 | 0.13 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD1 | 6 | 0.13 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD2 | 6 | 0.13 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD1 | 6 | 0.13 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD2 | 6 | 0.13 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD1 | 11 | 0.13 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD2 | 11 | 0.13 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD1 | 11 | 0.13 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD2 | 11 | 0.13 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD1 | 11 | 0.13 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD2 | 11 | 0.13 |
| (2,304) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HB2 | 9 | 0.13 |
| (2,304) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HB3 | 9 | 0.13 |
| (2,304) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HB2 | 9 | 0.13 |
| (2,304) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HB3 | 9 | 0.13 |
| (2,304) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HB2 | 9 | 0.13 |
| (2,304) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HB3 | 9 | 0.13 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD11 | 8 | 0.13 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD12 | 8 | 0.13 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD13 | 8 | 0.13 |
| (2,288) | 1:679:B:LEU:HD11 | 1:678:B:TRP:HH2 | 3 | 0.13 |
| (2,288) | 1:679:B:LEU:HD12 | 1:678:B:TRP:HH2 | 3 | 0.13 |
| (2,288) | 1:679:B:LEU:HD13 | 1:678:B:TRP:HH2 | 3 | 0.13 |
| (2,288) | 1:679:B:LEU:HD21 | 1:678:B:TRP:HH2 | 3 | 0.13 |
| (2,288) | 1:679:B:LEU:HD22 | 1:678:B:TRP:HH2 | 3 | 0.13 |
| (2,288) | 1:679:B:LEU:HD23 | 1:678:B:TRP:HH2 | 3 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD11 | 6 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD12 | 6 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD13 | 6 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD21 | 6 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD22 | 6 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD23 | 6 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD11 | 13 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD12 | 13 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD13 | 13 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD21 | 13 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD22 | 13 | 0.13 |
| (2,285) | 1:678:B:TRP:HE1 | 1:679:B:LEU:HD23 | 13 | 0.13 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 14 | 0.13 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 14 | 0.13 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 14 | 0.13 |
| (2,277) | 1:676:B:THR:HG21 | 1:669:B:LEU:HA | 6 | 0.13 |
| (2,277) | 1:676:B:THR:HG22 | 1:669:B:LEU:HA | 6 | 0.13 |
| (2,277) | 1:676:B:THR:HG23 | 1:669:B:LEU:HA | 6 | 0.13 |
| (2,276) | 1:676:B:THR:HG21 | 1:666:B:TRP:HZ3 | 7 | 0.13 |
| (2,276) | 1:676:B:THR:HG22 | 1:666:B:TRP:HZ3 | 7 | 0.13 |
| (2,276) | 1:676:B:THR:HG23 | 1:666:B:TRP:HZ3 | 7 | 0.13 |
| (2,272) | 1:674:B:ASP:H | 1:677:B:ASN:H | 2 | 0.13 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD11 | 2 | 0.13 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD12 | 2 | 0.13 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD13 | 2 | 0.13 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD21 | 2 | 0.13 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD22 | 2 | 0.13 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD23 | 2 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD11 | 1 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD12 | 1 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD13 | 1 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD21 | 1 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD22 | 1 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD23 | 1 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD11 | 6 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD12 | 6 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD13 | 6 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD21 | 6 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD22 | 6 | 0.13 |
| (2,264) | 1:670:B:TRP:HE1 | 1:669:B:LEU:HD23 | 6 | 0.13 |
| (2,253) | 1:669:B:LEU:H | 1:666:B:TRP:HA | 10 | 0.13 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD11 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD12 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD13 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD21 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD22 | 7 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,248) | 1:667:B:ALA:HB1 | 1:663:B:LEU:HD23 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD11 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD12 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD13 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD21 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD22 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB2 | 1:663:B:LEU:HD23 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD11 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD12 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD13 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD21 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD22 | 7 | 0.13 |
| (2,248) | 1:667:B:ALA:HB3 | 1:663:B:LEU:HD23 | 7 | 0.13 |
| (2,245) | 1:667:B:ALA:H | 1:666:B:TRP:HD1 | 3 | 0.13 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 4 | 0.13 |
| (2,225) | 1:664:B:ASP:H | 1:663:B:LEU:H | 7 | 0.13 |
| (2,219) | 1:663:B:LEU:H | 1:664:B:ASP:H | 7 | 0.13 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ1 | 7 | 0.13 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ2 | 7 | 0.13 |
| (2,211) | 1:839:B:ALA:H | 1:808:B:LYS:HZ3 | 7 | 0.13 |
| (2,207) | 1:831:A:GLU:H | 1:816:A:ASN:HD21 | 9 | 0.13 |
| (2,207) | 1:831:A:GLU:H | 1:816:A:ASN:HD22 | 9 | 0.13 |
| (2,206) | 1:831:A:GLU:H | 1:816:A:ASN:HD21 | 9 | 0.13 |
| (2,206) | 1:831:A:GLU:H | 1:816:A:ASN:HD22 | 9 | 0.13 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 10 | 0.13 |
| (2,204) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 10 | 0.13 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG12 | 10 | 0.13 |
| (2,203) | 1:827:A:ASP:H | 1:820:A:ILE:HG13 | 10 | 0.13 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD11 | 14 | 0.13 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD12 | 14 | 0.13 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD13 | 14 | 0.13 |
| (2,169) | 1:797:B:TRP:HE1 | 1:848:B:ARG:HB2 | 8 | 0.13 |
| (2,169) | 1:797:B:TRP:HE1 | 1:848:B:ARG:HB3 | 8 | 0.13 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB2 | 13 | 0.13 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB3 | 13 | 0.13 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD2 | 3 | 0.13 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD3 | 3 | 0.13 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD2 | 3 | 0.13 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD3 | 3 | 0.13 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD2 | 3 | 0.13 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD3 | 3 | 0.13 |
| (2,102) | 1:759:A:ASP:H | 1:709:B:ARG:HD2 | 14 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,102) | 1:759:A:ASP:H | 1:709:B:ARG:HD3 | 14 | 0.13 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD21 | 4 | 0.13 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD22 | 4 | 0.13 |
| (2,99) | 1:758:A:ASP:H | 1:715:B:LEU:HD23 | 4 | 0.13 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD2 | 10 | 0.13 |
| (2,84) | 1:709:A:ARG:H | 1:714:B:PRO:HD3 | 10 | 0.13 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE1 | 10 | 0.13 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE2 | 10 | 0.13 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE1 | 10 | 0.13 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE2 | 10 | 0.13 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE1 | 10 | 0.13 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE2 | 10 | 0.13 |
| (2,60) | 1:700:A:ALA:HB1 | 1:699:B:PHE:HD1 | 8 | 0.13 |
| (2,60) | 1:700:A:ALA:HB1 | 1:699:B:PHE:HD2 | 8 | 0.13 |
| (2,60) | 1:700:A:ALA:HB2 | 1:699:B:PHE:HD1 | 8 | 0.13 |
| (2,60) | 1:700:A:ALA:HB2 | 1:699:B:PHE:HD2 | 8 | 0.13 |
| (2,60) | 1:700:A:ALA:HB3 | 1:699:B:PHE:HD1 | 8 | 0.13 |
| (2,60) | 1:700:A:ALA:HB3 | 1:699:B:PHE:HD2 | 8 | 0.13 |
| (2,37) | 1:692:B:LEU:HD21 | 1:694:A:GLY:H | 8 | 0.13 |
| (2,37) | 1:692:B:LEU:HD22 | 1:694:A:GLY:H | 8 | 0.13 |
| (2,37) | 1:692:B:LEU:HD23 | 1:694:A:GLY:H | 8 | 0.13 |
| (2,37) | 1:692:B:LEU:HD21 | 1:694:A:GLY:H | 9 | 0.13 |
| (2,37) | 1:692:B:LEU:HD22 | 1:694:A:GLY:H | 9 | 0.13 |
| (2,37) | 1:692:B:LEU:HD23 | 1:694:A:GLY:H | 9 | 0.13 |
| (2,37) | 1:692:B:LEU:HD21 | 1:694:A:GLY:H | 14 | 0.13 |
| (2,37) | 1:692:B:LEU:HD22 | 1:694:A:GLY:H | 14 | 0.13 |
| (2,37) | 1:692:B:LEU:HD23 | 1:694:A:GLY:H | 14 | 0.13 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG21 | 2 | 0.13 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG22 | 2 | 0.13 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG23 | 2 | 0.13 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG21 | 2 | 0.13 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG22 | 2 | 0.13 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG23 | 2 | 0.13 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG21 | 2 | 0.13 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG22 | 2 | 0.13 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG23 | 2 | 0.13 |
| (2,22) | 1:678:B:TRP:HE1 | 1:687:A:ILE:HD11 | 8 | 0.13 |
| (2,22) | 1:678:B:TRP:HE1 | 1:687:A:ILE:HD12 | 8 | 0.13 |
| (2,22) | 1:678:B:TRP:HE1 | 1:687:A:ILE:HD13 | 8 | 0.13 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB2 | 3 | 0.13 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB3 | 3 | 0.13 |
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB2 | 4 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,5) | 1:663:A:LEU:H | 1:661:A:LEU:HB3 | 4 | 0.13 |
| (1,257) | 1:850:B:GLY:O | 1:854:B:ILE:H | 3 | 0.13 |
| (1,247) | 1:837:B:SER:O | 1:841:B:ARG:H | 2 | 0.13 |
| (1,199) | 1:803:B:TRP:O | 1:807:B:LEU:H | 4 | 0.13 |
| (1,197) | 1:802:B:TYR:O | 1:806:B:GLU:H | 2 | 0.13 |
| (1,197) | 1:802:B:TYR:O | 1:806:B:GLU:H | 4 | 0.13 |
| (1,197) | 1:802:B:TYR:O | 1:806:B:GLU:H | 7 | 0.13 |
| (1,197) | 1:802:B:TYR:O | 1:806:B:GLU:H | 15 | 0.13 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 7 | 0.13 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 10 | 0.13 |
| (1,192) | 1:799:B:LEU:O | 1:803:B:TRP:N | 3 | 0.13 |
| (1,191) | 1:799:B:LEU:O | 1:803:B:TRP:H | 5 | 0.13 |
| (1,184) | 1:795:B:TYR:O | 1:799:B:LEU:N | 13 | 0.13 |
| (1,182) | 1:794:B:LYS:O | 1:798:B:ASN:N | 5 | 0.13 |
| (1,182) | 1:794:B:LYS:O | 1:798:B:ASN:N | 15 | 0.13 |
| (1,179) | 1:793:B:LEU:O | 1:797:B:TRP:H | 10 | 0.13 |
| (1,175) | 1:791:B:GLU:O | 1:795:B:TYR:H | 3 | 0.13 |
| (1,171) | 1:850:B:GLY:O | 1:854:B:ILE:H | 3 | 0.13 |
| (1,161) | 1:837:B:SER:O | 1:841:B:ARG:H | 2 | 0.13 |
| (1,113) | 1:803:B:TRP:O | 1:807:B:LEU:H | 4 | 0.13 |
| (1,111) | 1:802:B:TYR:O | 1:806:B:GLU:H | 2 | 0.13 |
| (1,111) | 1:802:B:TYR:O | 1:806:B:GLU:H | 4 | 0.13 |
| (1,111) | 1:802:B:TYR:O | 1:806:B:GLU:H | 7 | 0.13 |
| (1,111) | 1:802:B:TYR:O | 1:806:B:GLU:H | 15 | 0.13 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 7 | 0.13 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 10 | 0.13 |
| (1,106) | 1:799:B:LEU:O | 1:803:B:TRP:N | 3 | 0.13 |
| (1,105) | 1:799:B:LEU:O | 1:803:B:TRP:H | 5 | 0.13 |
| (1,98) | 1:795:B:TYR:O | 1:799:B:LEU:N | 13 | 0.13 |
| (1,96) | 1:794:B:LYS:O | 1:798:B:ASN:N | 5 | 0.13 |
| (1,96) | 1:794:B:LYS:O | 1:798:B:ASN:N | 15 | 0.13 |
| (1,93) | 1:793:B:LEU:O | 1:797:B:TRP:H | 10 | 0.13 |
| (1,89) | 1:791:B:GLU:O | 1:795:B:TYR:H | 3 | 0.13 |
| (1,85) | 1:850:B:GLY:O | 1:854:B:ILE:H | 3 | 0.13 |
| (1,75) | 1:837:B:SER:O | 1:841:B:ARG:H | 2 | 0.13 |
| (1,27) | 1:803:B:TRP:O | 1:807:B:LEU:H | 4 | 0.13 |
| (1,25) | 1:802:B:TYR:O | 1:806:B:GLU:H | 2 | 0.13 |
| (1,25) | 1:802:B:TYR:O | 1:806:B:GLU:H | 4 | 0.13 |
| (1,25) | 1:802:B:TYR:O | 1:806:B:GLU:H | 7 | 0.13 |
| (1,25) | 1:802:B:TYR:O | 1:806:B:GLU:H | 15 | 0.13 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 7 | 0.13 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 10 | 0.13 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (1,20) | 1:799:B:LEU:O | 1:803:B:TRP:N | 3 | 0.13 |
| (1,19) | 1:799:B:LEU:O | 1:803:B:TRP:H | 5 | 0.13 |
| (1,12) | 1:795:B:TYR:O | 1:799:B:LEU:N | 13 | 0.13 |
| (1,10) | 1:794:B:LYS:O | 1:798:B:ASN:N | 5 | 0.13 |
| (1,10) | 1:794:B:LYS:O | 1:798:B:ASN:N | 15 | 0.13 |
| (1,7) | 1:793:B:LEU:O | 1:797:B:TRP:H | 10 | 0.13 |
| (1,3) | 1:791:B:GLU:O | 1:795:B:TYR:H | 3 | 0.13 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 1 | 0.12 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 1 | 0.12 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 1 | 0.12 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 1 | 0.12 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 1 | 0.12 |
| (2,1478) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 1 | 0.12 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 6 | 0.12 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 6 | 0.12 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 6 | 0.12 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 11 | 0.12 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 11 | 0.12 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 11 | 0.12 |
| (2,1465) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 8 | 0.12 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 5 | 0.12 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 5 | 0.12 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 5 | 0.12 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 5 | 0.12 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 5 | 0.12 |
| (2,1463) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 5 | 0.12 |
| (2,1439) | 1:783:A:GLU:H | 1:782:A:VAL:HA | 14 | 0.12 |
| (2,1437) | 1:783:A:GLU:H | 1:780:A:ARG:HA | 2 | 0.12 |
| (2,1426) | 1:781:A:ILE:H | 1:780:A:ARG:HA | 1 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 15 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 15 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 15 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 15 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 15 | 0.12 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 15 | 0.12 |
| (2,1376) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE1 | 15 | 0.12 |
| (2,1376) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE2 | 15 | 0.12 |
| (2,1376) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE1 | 15 | 0.12 |
| (2,1376) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE2 | 15 | 0.12 |
| (2,1376) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE1 | 15 | 0.12 |
| (2,1376) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE2 | 15 | 0.12 |
| (2,1371) | 1:763:A:LEU:HD21 | 1:771:A:LEU:HB2 | 9 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1371) | 1:763:A:LEU:HD21 | 1:771:A:LEU:HB3 | 9 | 0.12 |
| (2,1371) | 1:763:A:LEU:HD22 | 1:771:A:LEU:HB2 | 9 | 0.12 |
| (2,1371) | 1:763:A:LEU:HD22 | 1:771:A:LEU:HB3 | 9 | 0.12 |
| (2,1371) | 1:763:A:LEU:HD23 | 1:771:A:LEU:HB2 | 9 | 0.12 |
| (2,1371) | 1:763:A:LEU:HD23 | 1:771:A:LEU:HB3 | 9 | 0.12 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 11 | 0.12 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 11 | 0.12 |
| (2,1359) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 11 | 0.12 |
| (2,1352) | 1:755:A:LEU:H | 1:752:A:SER:HA | 8 | 0.12 |
| (2,1351) | 1:755:A:LEU:H | 1:751:A:GLY:HA2 | 14 | 0.12 |
| (2,1351) | 1:755:A:LEU:H | 1:751:A:GLY:HA3 | 14 | 0.12 |
| (2,1350) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 11 | 0.12 |
| (2,1350) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 11 | 0.12 |
| (2,1350) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 11 | 0.12 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 9 | 0.12 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 9 | 0.12 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 9 | 0.12 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 9 | 0.12 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 9 | 0.12 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 9 | 0.12 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 14 | 0.12 |
| (2,1343) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 14 | 0.12 |
| (2,1329) | 1:748:A:LEU:H | 1:745:A:SER:HA | 10 | 0.12 |
| (2,1315) | 1:746:A:ILE:H | 1:743:A:ASP:HB2 | 8 | 0.12 |
| (2,1315) | 1:746:A:ILE:H | 1:743:A:ASP:HB3 | 8 | 0.12 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 6 | 0.12 |
| (2,1279) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 6 | 0.12 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 6 | 0.12 |
| (2,1279) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 6 | 0.12 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 6 | 0.12 |
| (2,1279) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 6 | 0.12 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 2 | 0.12 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 2 | 0.12 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 2 | 0.12 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 2 | 0.12 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 2 | 0.12 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 2 | 0.12 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 2 | 0.12 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 2 | 0.12 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 2 | 0.12 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 2 | 0.12 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 2 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 2 | 0.12 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 14 | 0.12 |
| (2,1256) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 14 | 0.12 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 14 | 0.12 |
| (2,1256) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 14 | 0.12 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 14 | 0.12 |
| (2,1256) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 14 | 0.12 |
| (2,1255) | 1:705:A:VAL:HG21 | 1:702:A:LEU:HG | 10 | 0.12 |
| (2,1255) | 1:705:A:VAL:HG22 | 1:702:A:LEU:HG | 10 | 0.12 |
| (2,1255) | 1:705:A:VAL:HG23 | 1:702:A:LEU:HG | 10 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 2 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 2 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 2 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 2 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 2 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 2 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 7 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 7 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 7 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 7 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 7 | 0.12 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 7 | 0.12 |
| (2,1205) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 11 | 0.12 |
| (2,1205) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 11 | 0.12 |
| (2,1205) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 11 | 0.12 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 11 | 0.12 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 11 | 0.12 |
| (2,1204) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 11 | 0.12 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 11 | 0.12 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 11 | 0.12 |
| (2,1204) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 11 | 0.12 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 11 | 0.12 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 11 | 0.12 |
| (2,1204) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 11 | 0.12 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 14 | 0.12 |
| (2,1194) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 14 | 0.12 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 14 | 0.12 |
| (2,1194) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 14 | 0.12 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 14 | 0.12 |
| (2,1194) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 14 | 0.12 |
| (2,1193) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB2 | 6 | 0.12 |
| (2,1193) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB3 | 6 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1193) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB2 | 6 | 0.12 |
| (2,1193) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB3 | 6 | 0.12 |
| (2,1193) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB2 | 6 | 0.12 |
| (2,1193) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB3 | 6 | 0.12 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 8 | 0.12 |
| (2,1155) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 8 | 0.12 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 8 | 0.12 |
| (2,1155) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 8 | 0.12 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 8 | 0.12 |
| (2,1155) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 8 | 0.12 |
| (2,1143) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 8 | 0.12 |
| (2,1143) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 8 | 0.12 |
| (2,1143) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 8 | 0.12 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD11 | 15 | 0.12 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD12 | 15 | 0.12 |
| (2,1140) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD13 | 15 | 0.12 |
| (2,1136) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 12 | 0.12 |
| (2,1126) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 6 | 0.12 |
| (2,1126) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 6 | 0.12 |
| (2,1126) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 6 | 0.12 |
| (2,1118) | 1:672:A:TRP:H | 1:673:A:PHE:H | 15 | 0.12 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 6 | 0.12 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 6 | 0.12 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 6 | 0.12 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 6 | 0.12 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 6 | 0.12 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 6 | 0.12 |
| (2,1108) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,1108) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,1108) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,1108) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,1108) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,1108) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD11 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD12 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD13 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD21 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD22 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD23 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD11 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD12 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD13 | 9 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD21 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD22 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD23 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD11 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD12 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD13 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD21 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD22 | 9 | 0.12 |
| (2,1098) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD23 | 9 | 0.12 |
| (2,1097) | 1:667:A:ALA:HB1 | 1:664:A:ASP:HA | 3 | 0.12 |
| (2,1097) | 1:667:A:ALA:HB2 | 1:664:A:ASP:HA | 3 | 0.12 |
| (2,1097) | 1:667:A:ALA:HB3 | 1:664:A:ASP:HA | 3 | 0.12 |
| (2,1097) | 1:667:A:ALA:HB1 | 1:664:A:ASP:HA | 13 | 0.12 |
| (2,1097) | 1:667:A:ALA:HB2 | 1:664:A:ASP:HA | 13 | 0.12 |
| (2,1097) | 1:667:A:ALA:HB3 | 1:664:A:ASP:HA | 13 | 0.12 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG11 | 1 | 0.12 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG12 | 1 | 0.12 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG13 | 1 | 0.12 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG21 | 1 | 0.12 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG22 | 1 | 0.12 |
| (2,1053) | 1:826:A:THR:H | 1:822:A:VAL:HG23 | 1 | 0.12 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 6 | 0.12 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 6 | 0.12 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 6 | 0.12 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 11 | 0.12 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 11 | 0.12 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 11 | 0.12 |
| (2,1040) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 8 | 0.12 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD11 | 5 | 0.12 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD12 | 5 | 0.12 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD13 | 5 | 0.12 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD21 | 5 | 0.12 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD22 | 5 | 0.12 |
| (2,1038) | 1:790:A:TRP:HE1 | 1:793:A:LEU:HD23 | 5 | 0.12 |
| (2,1014) | 1:783:A:GLU:H | 1:782:A:VAL:HA | 14 | 0.12 |
| (2,1012) | 1:783:A:GLU:H | 1:780:A:ARG:HA | 2 | 0.12 |
| (2,1001) | 1:781:A:ILE:H | 1:780:A:ARG:HA | 1 | 0.12 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 15 | 0.12 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 15 | 0.12 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 15 | 0.12 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 15 | 0.12 |
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 15 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 15 | 0.12 |
| (2,951) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE1 | 15 | 0.12 |
| (2,951) | 1:771:A:LEU:HD11 | 1:768:A:TYR:HE2 | 15 | 0.12 |
| (2,951) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE1 | 15 | 0.12 |
| (2,951) | 1:771:A:LEU:HD12 | 1:768:A:TYR:HE2 | 15 | 0.12 |
| (2,951) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE1 | 15 | 0.12 |
| (2,951) | 1:771:A:LEU:HD13 | 1:768:A:TYR:HE2 | 15 | 0.12 |
| (2,946) | 1:763:A:LEU:HD21 | 1:771:A:LEU:HB2 | 9 | 0.12 |
| (2,946) | 1:763:A:LEU:HD21 | 1:771:A:LEU:HB3 | 9 | 0.12 |
| (2,946) | 1:763:A:LEU:HD22 | 1:771:A:LEU:HB2 | 9 | 0.12 |
| (2,946) | 1:763:A:LEU:HD22 | 1:771:A:LEU:HB3 | 9 | 0.12 |
| (2,946) | 1:763:A:LEU:HD23 | 1:771:A:LEU:HB2 | 9 | 0.12 |
| (2,946) | 1:763:A:LEU:HD23 | 1:771:A:LEU:HB3 | 9 | 0.12 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB1 | 11 | 0.12 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB2 | 11 | 0.12 |
| (2,934) | 1:758:A:ASP:H | 1:754:A:ALA:HB3 | 11 | 0.12 |
| (2,927) | 1:755:A:LEU:H | 1:752:A:SER:HA | 8 | 0.12 |
| (2,926) | 1:755:A:LEU:H | 1:751:A:GLY:HA2 | 14 | 0.12 |
| (2,926) | 1:755:A:LEU:H | 1:751:A:GLY:HA3 | 14 | 0.12 |
| (2,925) | 1:754:A:ALA:HB1 | 1:758:A:ASP:H | 11 | 0.12 |
| (2,925) | 1:754:A:ALA:HB2 | 1:758:A:ASP:H | 11 | 0.12 |
| (2,925) | 1:754:A:ALA:HB3 | 1:758:A:ASP:H | 11 | 0.12 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 9 | 0.12 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 9 | 0.12 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 9 | 0.12 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 9 | 0.12 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 9 | 0.12 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 9 | 0.12 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB2 | 14 | 0.12 |
| (2,918) | 1:754:A:ALA:H | 1:750:A:ASN:HB3 | 14 | 0.12 |
| (2,904) | 1:748:A:LEU:H | 1:745:A:SER:HA | 10 | 0.12 |
| (2,890) | 1:746:A:ILE:H | 1:743:A:ASP:HB2 | 8 | 0.12 |
| (2,890) | 1:746:A:ILE:H | 1:743:A:ASP:HB3 | 8 | 0.12 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD2 | 6 | 0.12 |
| (2,854) | 1:708:A:VAL:HG21 | 1:707:A:ARG:HD3 | 6 | 0.12 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD2 | 6 | 0.12 |
| (2,854) | 1:708:A:VAL:HG22 | 1:707:A:ARG:HD3 | 6 | 0.12 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD2 | 6 | 0.12 |
| (2,854) | 1:708:A:VAL:HG23 | 1:707:A:ARG:HD3 | 6 | 0.12 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 2 | 0.12 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 2 | 0.12 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 2 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 2 | 0.12 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 2 | 0.12 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 2 | 0.12 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 2 | 0.12 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 2 | 0.12 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 2 | 0.12 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 2 | 0.12 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 2 | 0.12 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 2 | 0.12 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB2 | 14 | 0.12 |
| (2,831) | 1:705:A:VAL:HG21 | 1:706:A:ASN:HB3 | 14 | 0.12 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB2 | 14 | 0.12 |
| (2,831) | 1:705:A:VAL:HG22 | 1:706:A:ASN:HB3 | 14 | 0.12 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB2 | 14 | 0.12 |
| (2,831) | 1:705:A:VAL:HG23 | 1:706:A:ASN:HB3 | 14 | 0.12 |
| (2,830) | 1:705:A:VAL:HG21 | 1:702:A:LEU:HG | 10 | 0.12 |
| (2,830) | 1:705:A:VAL:HG22 | 1:702:A:LEU:HG | 10 | 0.12 |
| (2,830) | 1:705:A:VAL:HG23 | 1:702:A:LEU:HG | 10 | 0.12 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 2 | 0.12 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 2 | 0.12 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 2 | 0.12 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 2 | 0.12 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 2 | 0.12 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 2 | 0.12 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 7 | 0.12 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 7 | 0.12 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 7 | 0.12 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 7 | 0.12 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 7 | 0.12 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 7 | 0.12 |
| (2,780) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HA | 11 | 0.12 |
| (2,780) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HA | 11 | 0.12 |
| (2,780) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HA | 11 | 0.12 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB1 | 11 | 0.12 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB2 | 11 | 0.12 |
| (2,779) | 1:697:A:ILE:HG21 | 1:700:A:ALA:HB3 | 11 | 0.12 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB1 | 11 | 0.12 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB2 | 11 | 0.12 |
| (2,779) | 1:697:A:ILE:HG22 | 1:700:A:ALA:HB3 | 11 | 0.12 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB1 | 11 | 0.12 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB2 | 11 | 0.12 |
| (2,779) | 1:697:A:ILE:HG23 | 1:700:A:ALA:HB3 | 11 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD2 | 14 | 0.12 |
| (2,769) | 1:695:A:LEU:HD21 | 1:696:A:ARG:HD3 | 14 | 0.12 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD2 | 14 | 0.12 |
| (2,769) | 1:695:A:LEU:HD22 | 1:696:A:ARG:HD3 | 14 | 0.12 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD2 | 14 | 0.12 |
| (2,769) | 1:695:A:LEU:HD23 | 1:696:A:ARG:HD3 | 14 | 0.12 |
| (2,768) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB2 | 6 | 0.12 |
| (2,768) | 1:695:A:LEU:HD11 | 1:691:A:SER:HB3 | 6 | 0.12 |
| (2,768) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB2 | 6 | 0.12 |
| (2,768) | 1:695:A:LEU:HD12 | 1:691:A:SER:HB3 | 6 | 0.12 |
| (2,768) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB2 | 6 | 0.12 |
| (2,768) | 1:695:A:LEU:HD13 | 1:691:A:SER:HB3 | 6 | 0.12 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD1 | 8 | 0.12 |
| (2,730) | 1:684:A:ILE:HG21 | 1:685:A:PHE:HD2 | 8 | 0.12 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD1 | 8 | 0.12 |
| (2,730) | 1:684:A:ILE:HG22 | 1:685:A:PHE:HD2 | 8 | 0.12 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD1 | 8 | 0.12 |
| (2,730) | 1:684:A:ILE:HG23 | 1:685:A:PHE:HD2 | 8 | 0.12 |
| (2,718) | 1:682:A:ILE:HG21 | 1:679:A:LEU:H | 8 | 0.12 |
| (2,718) | 1:682:A:ILE:HG22 | 1:679:A:LEU:H | 8 | 0.12 |
| (2,718) | 1:682:A:ILE:HG23 | 1:679:A:LEU:H | 8 | 0.12 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD11 | 15 | 0.12 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD12 | 15 | 0.12 |
| (2,715) | 1:680:A:TRP:HE1 | 1:684:A:ILE:HD13 | 15 | 0.12 |
| (2,711) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 12 | 0.12 |
| (2,701) | 1:676:A:THR:HG21 | 1:666:A:TRP:HZ3 | 6 | 0.12 |
| (2,701) | 1:676:A:THR:HG22 | 1:666:A:TRP:HZ3 | 6 | 0.12 |
| (2,701) | 1:676:A:THR:HG23 | 1:666:A:TRP:HZ3 | 6 | 0.12 |
| (2,693) | 1:672:A:TRP:H | 1:673:A:PHE:H | 15 | 0.12 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 6 | 0.12 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 6 | 0.12 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 6 | 0.12 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 6 | 0.12 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 6 | 0.12 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 6 | 0.12 |
| (2,683) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,683) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,683) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,683) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,683) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,683) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 10 | 0.12 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD11 | 9 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD12 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD13 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD21 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD22 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB1 | 1:663:A:LEU:HD23 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD11 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD12 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD13 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD21 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD22 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB2 | 1:663:A:LEU:HD23 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD11 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD12 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD13 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD21 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD22 | 9 | 0.12 |
| (2,673) | 1:667:A:ALA:HB3 | 1:663:A:LEU:HD23 | 9 | 0.12 |
| (2,672) | 1:667:A:ALA:HB1 | 1:664:A:ASP:HA | 3 | 0.12 |
| (2,672) | 1:667:A:ALA:HB2 | 1:664:A:ASP:HA | 3 | 0.12 |
| (2,672) | 1:667:A:ALA:HB3 | 1:664:A:ASP:HA | 3 | 0.12 |
| (2,672) | 1:667:A:ALA:HB1 | 1:664:A:ASP:HA | 13 | 0.12 |
| (2,672) | 1:667:A:ALA:HB2 | 1:664:A:ASP:HA | 13 | 0.12 |
| (2,672) | 1:667:A:ALA:HB3 | 1:664:A:ASP:HA | 13 | 0.12 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD2 | 3 | 0.12 |
| (2,631) | 1:839:B:ALA:H | 1:838:B:ARG:HD3 | 3 | 0.12 |
| (2,615) | 1:796:B:TRP:HE1 | 1:796:B:TRP:H | 1 | 0.12 |
| (2,608) | 1:786:B:GLY:H | 1:782:B:VAL:HA | 14 | 0.12 |
| (2,601) | 1:785:B:LEU:H | 1:782:B:VAL:HA | 9 | 0.12 |
| (2,599) | 1:784:B:LEU:HD11 | 1:787:B:ARG:HD2 | 9 | 0.12 |
| (2,599) | 1:784:B:LEU:HD11 | 1:787:B:ARG:HD3 | 9 | 0.12 |
| (2,599) | 1:784:B:LEU:HD12 | 1:787:B:ARG:HD2 | 9 | 0.12 |
| (2,599) | 1:784:B:LEU:HD12 | 1:787:B:ARG:HD3 | 9 | 0.12 |
| (2,599) | 1:784:B:LEU:HD13 | 1:787:B:ARG:HD2 | 9 | 0.12 |
| (2,599) | 1:784:B:LEU:HD13 | 1:787:B:ARG:HD3 | 9 | 0.12 |
| (2,593) | 1:784:B:LEU:H | 1:781:B:ILE:HA | 9 | 0.12 |
| (2,593) | 1:784:B:LEU:H | 1:781:B:ILE:HA | 10 | 0.12 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD2 | 4 | 0.12 |
| (2,588) | 1:783:B:GLU:H | 1:780:B:ARG:HD3 | 4 | 0.12 |
| (2,587) | 1:783:B:GLU:H | 1:780:B:ARG:HA | 2 | 0.12 |
| (2,587) | 1:783:B:GLU:H | 1:780:B:ARG:HA | 14 | 0.12 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 11 | 0.12 |
| (2,565) | 1:779:B:THR:H | 1:776:B:LEU:HA | 11 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,541) | 1:775:B:LEU:H | 1:774:B:LEU:HA | 15 | 0.12 |
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD2 | 9 | 0.12 |
| (2,531) | 1:773:B:ASP:H | 1:770:B:ARG:HD3 | 9 | 0.12 |
| (2,528) | 1:772:B:ARG:H | 1:771:B:LEU:H | 11 | 0.12 |
| (2,524) | 1:771:B:LEU:H | 1:772:B:ARG:H | 11 | 0.12 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE1 | 8 | 0.12 |
| (2,520) | 1:763:B:LEU:HD21 | 1:768:B:TYR:HE2 | 8 | 0.12 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE1 | 8 | 0.12 |
| (2,520) | 1:763:B:LEU:HD22 | 1:768:B:TYR:HE2 | 8 | 0.12 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE1 | 8 | 0.12 |
| (2,520) | 1:763:B:LEU:HD23 | 1:768:B:TYR:HE2 | 8 | 0.12 |
| (2,519) | 1:763:B:LEU:HD11 | 1:764:B:SER:HG | 10 | 0.12 |
| (2,519) | 1:763:B:LEU:HD12 | 1:764:B:SER:HG | 10 | 0.12 |
| (2,519) | 1:763:B:LEU:HD13 | 1:764:B:SER:HG | 10 | 0.12 |
| (2,499) | 1:754:B:ALA:HB1 | 1:753:B:LEU:HD21 | 10 | 0.12 |
| (2,499) | 1:754:B:ALA:HB1 | 1:753:B:LEU:HD22 | 10 | 0.12 |
| (2,499) | 1:754:B:ALA:HB1 | 1:753:B:LEU:HD23 | 10 | 0.12 |
| (2,499) | 1:754:B:ALA:HB2 | 1:753:B:LEU:HD21 | 10 | 0.12 |
| (2,499) | 1:754:B:ALA:HB2 | 1:753:B:LEU:HD22 | 10 | 0.12 |
| (2,499) | 1:754:B:ALA:HB2 | 1:753:B:LEU:HD23 | 10 | 0.12 |
| (2,499) | 1:754:B:ALA:HB3 | 1:753:B:LEU:HD21 | 10 | 0.12 |
| (2,499) | 1:754:B:ALA:HB3 | 1:753:B:LEU:HD22 | 10 | 0.12 |
| (2,499) | 1:754:B:ALA:HB3 | 1:753:B:LEU:HD23 | 10 | 0.12 |
| (2,485) | 1:753:B:LEU:H | 1:750:B:ASN:HA | 12 | 0.12 |
| (2,473) | 1:746:B:ILE:HG21 | 1:750:B:ASN:HD22 | 7 | 0.12 |
| (2,473) | 1:746:B:ILE:HG22 | 1:750:B:ASN:HD22 | 7 | 0.12 |
| (2,473) | 1:746:B:ILE:HG23 | 1:750:B:ASN:HD22 | 7 | 0.12 |
| (2,465) | 1:746:B:ILE:H | 1:743:B:ASP:HB2 | 8 | 0.12 |
| (2,465) | 1:746:B:ILE:H | 1:743:B:ASP:HB3 | 8 | 0.12 |
| (2,439) | 1:710:B:GLN:H | 1:708:B:VAL:HA | 4 | 0.12 |
| (2,407) | 1:706:B:ASN:H | 1:703:B:SER:HA | 13 | 0.12 |
| (2,403) | 1:705:B:VAL:HG11 | 1:709:B:ARG:HD2 | 3 | 0.12 |
| (2,403) | 1:705:B:VAL:HG11 | 1:709:B:ARG:HD3 | 3 | 0.12 |
| (2,403) | 1:705:B:VAL:HG12 | 1:709:B:ARG:HD2 | 3 | 0.12 |
| (2,403) | 1:705:B:VAL:HG12 | 1:709:B:ARG:HD3 | 3 | 0.12 |
| (2,403) | 1:705:B:VAL:HG13 | 1:709:B:ARG:HD2 | 3 | 0.12 |
| (2,403) | 1:705:B:VAL:HG13 | 1:709:B:ARG:HD3 | 3 | 0.12 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD1 | 11 | 0.12 |
| (2,377) | 1:702:B:LEU:HD11 | 1:699:B:PHE:HD2 | 11 | 0.12 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD1 | 11 | 0.12 |
| (2,377) | 1:702:B:LEU:HD12 | 1:699:B:PHE:HD2 | 11 | 0.12 |
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD1 | 11 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,377) | 1:702:B:LEU:HD13 | 1:699:B:PHE:HD2 | 11 | 0.12 |
| (2,358) | 1:698:B:VAL:HG11 | 1:702:B:LEU:HB2 | 1 | 0.12 |
| (2,358) | 1:698:B:VAL:HG11 | 1:702:B:LEU:HB3 | 1 | 0.12 |
| (2,358) | 1:698:B:VAL:HG12 | 1:702:B:LEU:HB2 | 1 | 0.12 |
| (2,358) | 1:698:B:VAL:HG12 | 1:702:B:LEU:HB3 | 1 | 0.12 |
| (2,358) | 1:698:B:VAL:HG13 | 1:702:B:LEU:HB2 | 1 | 0.12 |
| (2,358) | 1:698:B:VAL:HG13 | 1:702:B:LEU:HB3 | 1 | 0.12 |
| (2,357) | 1:698:B:VAL:HG11 | 1:699:B:PHE:HD1 | 12 | 0.12 |
| (2,357) | 1:698:B:VAL:HG11 | 1:699:B:PHE:HD2 | 12 | 0.12 |
| (2,357) | 1:698:B:VAL:HG12 | 1:699:B:PHE:HD1 | 12 | 0.12 |
| (2,357) | 1:698:B:VAL:HG12 | 1:699:B:PHE:HD2 | 12 | 0.12 |
| (2,357) | 1:698:B:VAL:HG13 | 1:699:B:PHE:HD1 | 12 | 0.12 |
| (2,357) | 1:698:B:VAL:HG13 | 1:699:B:PHE:HD2 | 12 | 0.12 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 2 | 0.12 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 2 | 0.12 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 2 | 0.12 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 13 | 0.12 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 13 | 0.12 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 13 | 0.12 |
| (2,352) | 1:697:B:ILE:HG21 | 1:694:B:GLY:HA2 | 14 | 0.12 |
| (2,352) | 1:697:B:ILE:HG21 | 1:694:B:GLY:HA3 | 14 | 0.12 |
| (2,352) | 1:697:B:ILE:HG22 | 1:694:B:GLY:HA2 | 14 | 0.12 |
| (2,352) | 1:697:B:ILE:HG22 | 1:694:B:GLY:HA3 | 14 | 0.12 |
| (2,352) | 1:697:B:ILE:HG23 | 1:694:B:GLY:HA2 | 14 | 0.12 |
| (2,352) | 1:697:B:ILE:HG23 | 1:694:B:GLY:HA3 | 14 | 0.12 |
| (2,340) | 1:693:B:ILE:HG21 | 1:696:B:ARG:HG2 | 3 | 0.12 |
| (2,340) | 1:693:B:ILE:HG21 | 1:696:B:ARG:HG3 | 3 | 0.12 |
| (2,340) | 1:693:B:ILE:HG22 | 1:696:B:ARG:HG2 | 3 | 0.12 |
| (2,340) | 1:693:B:ILE:HG22 | 1:696:B:ARG:HG3 | 3 | 0.12 |
| (2,340) | 1:693:B:ILE:HG23 | 1:696:B:ARG:HG2 | 3 | 0.12 |
| (2,340) | 1:693:B:ILE:HG23 | 1:696:B:ARG:HG3 | 3 | 0.12 |
| (2,336) | 1:693:B:ILE:HD11 | 1:697:B:ILE:H | 12 | 0.12 |
| (2,336) | 1:693:B:ILE:HD12 | 1:697:B:ILE:H | 12 | 0.12 |
| (2,336) | 1:693:B:ILE:HD13 | 1:697:B:ILE:H | 12 | 0.12 |
| (2,330) | 1:692:B:LEU:HD11 | 1:689:B:VAL:HA | 3 | 0.12 |
| (2,330) | 1:692:B:LEU:HD12 | 1:689:B:VAL:HA | 3 | 0.12 |
| (2,330) | 1:692:B:LEU:HD13 | 1:689:B:VAL:HA | 3 | 0.12 |
| (2,327) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HE1 | 14 | 0.12 |
| (2,327) | 1:689:B:VAL:HG21 | 1:685:B:PHE:HE2 | 14 | 0.12 |
| (2,327) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HE1 | 14 | 0.12 |
| (2,327) | 1:689:B:VAL:HG22 | 1:685:B:PHE:HE2 | 14 | 0.12 |
| (2,327) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HE1 | 14 | 0.12 |

*Continued on next page...*

| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,327) | 1:689:B:VAL:HG23 | 1:685:B:PHE:HE2 | 14 | 0.12 |
| (2,324) | 1:688:B:ILE:HG21 | 1:692:B:LEU:HG | 4 | 0.12 |
| (2,324) | 1:688:B:ILE:HG22 | 1:692:B:LEU:HG | 4 | 0.12 |
| (2,324) | 1:688:B:ILE:HG23 | 1:692:B:LEU:HG | 4 | 0.12 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB2 | 8 | 0.12 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB3 | 8 | 0.12 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB2 | 8 | 0.12 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB3 | 8 | 0.12 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB2 | 8 | 0.12 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB3 | 8 | 0.12 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB2 | 11 | 0.12 |
| (2,297) | 1:682:B:ILE:HD11 | 1:685:B:PHE:HB3 | 11 | 0.12 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB2 | 11 | 0.12 |
| (2,297) | 1:682:B:ILE:HD12 | 1:685:B:PHE:HB3 | 11 | 0.12 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB2 | 11 | 0.12 |
| (2,297) | 1:682:B:ILE:HD13 | 1:685:B:PHE:HB3 | 11 | 0.12 |
| (2,296) | 1:682:B:ILE:HD11 | 1:681:B:TYR:H | 7 | 0.12 |
| (2,296) | 1:682:B:ILE:HD12 | 1:681:B:TYR:H | 7 | 0.12 |
| (2,296) | 1:682:B:ILE:HD13 | 1:681:B:TYR:H | 7 | 0.12 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD11 | 13 | 0.12 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD12 | 13 | 0.12 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD13 | 13 | 0.12 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 12 | 0.12 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 12 | 0.12 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 12 | 0.12 |
| (2,280) | 1:676:B:THR:HG21 | 1:681:B:TYR:HH | 4 | 0.12 |
| (2,280) | 1:676:B:THR:HG22 | 1:681:B:TYR:HH | 4 | 0.12 |
| (2,280) | 1:676:B:THR:HG23 | 1:681:B:TYR:HH | 4 | 0.12 |
| (2,276) | 1:676:B:THR:HG21 | 1:666:B:TRP:HZ3 | 1 | 0.12 |
| (2,276) | 1:676:B:THR:HG22 | 1:666:B:TRP:HZ3 | 1 | 0.12 |
| (2,276) | 1:676:B:THR:HG23 | 1:666:B:TRP:HZ3 | 1 | 0.12 |
| (2,276) | 1:676:B:THR:HG21 | 1:666:B:TRP:HZ3 | 5 | 0.12 |
| (2,276) | 1:676:B:THR:HG22 | 1:666:B:TRP:HZ3 | 5 | 0.12 |
| (2,276) | 1:676:B:THR:HG23 | 1:666:B:TRP:HZ3 | 5 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD11 | 3 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD12 | 3 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD13 | 3 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD21 | 3 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD22 | 3 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD23 | 3 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD11 | 4 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD12 | 4 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD13 | 4 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD21 | 4 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD22 | 4 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD23 | 4 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD11 | 6 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD12 | 6 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD13 | 6 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD21 | 6 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD22 | 6 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD23 | 6 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD11 | 14 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD12 | 14 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD13 | 14 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD21 | 14 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD22 | 14 | 0.12 |
| (2,269) | 1:672:B:TRP:HE1 | 1:669:B:LEU:HD23 | 14 | 0.12 |
| (2,268) | 1:672:B:TRP:H | 1:673:B:PHE:H | 1 | 0.12 |
| (2,259) | 1:670:B:TRP:H | 1:667:B:ALA:HA | 13 | 0.12 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 11 | 0.12 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG12 | 12 | 0.12 |
| (2,202) | 1:827:B:ASP:H | 1:820:B:ILE:HG13 | 12 | 0.12 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 8 | 0.12 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 8 | 0.12 |
| (2,198) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 8 | 0.12 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD11 | 8 | 0.12 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD12 | 8 | 0.12 |
| (2,197) | 1:826:A:THR:H | 1:820:A:ILE:HD13 | 8 | 0.12 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD11 | 7 | 0.12 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD12 | 7 | 0.12 |
| (2,196) | 1:826:B:THR:H | 1:820:B:ILE:HD13 | 7 | 0.12 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 14 | 0.12 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 14 | 0.12 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 2 | 0.12 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 2 | 0.12 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 10 | 0.12 |
| (2,186) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 10 | 0.12 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 2 | 0.12 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 2 | 0.12 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD2 | 10 | 0.12 |
| (2,185) | 1:808:A:LYS:H | 1:838:A:ARG:HD3 | 10 | 0.12 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 3 | 0.12 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 15 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 15 | 0.12 |
| (2,153) | 1:792:A:ALA:H | 1:752:B:SER:HB2 | 10 | 0.12 |
| (2,153) | 1:792:A:ALA:H | 1:752:B:SER:HB3 | 10 | 0.12 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD2 | 5 | 0.12 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD3 | 5 | 0.12 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD2 | 5 | 0.12 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD3 | 5 | 0.12 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD2 | 5 | 0.12 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD3 | 5 | 0.12 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB2 | 5 | 0.12 |
| (2,62) | 1:700:A:ALA:HB1 | 1:702:A:LEU:HB3 | 5 | 0.12 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB2 | 5 | 0.12 |
| (2,62) | 1:700:A:ALA:HB2 | 1:702:A:LEU:HB3 | 5 | 0.12 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB2 | 5 | 0.12 |
| (2,62) | 1:700:A:ALA:HB3 | 1:702:A:LEU:HB3 | 5 | 0.12 |
| (2,60) | 1:700:A:ALA:HB1 | 1:699:B:PHE:HD1 | 6 | 0.12 |
| (2,60) | 1:700:A:ALA:HB1 | 1:699:B:PHE:HD2 | 6 | 0.12 |
| (2,60) | 1:700:A:ALA:HB2 | 1:699:B:PHE:HD1 | 6 | 0.12 |
| (2,60) | 1:700:A:ALA:HB2 | 1:699:B:PHE:HD2 | 6 | 0.12 |
| (2,60) | 1:700:A:ALA:HB3 | 1:699:B:PHE:HD1 | 6 | 0.12 |
| (2,60) | 1:700:A:ALA:HB3 | 1:699:B:PHE:HD2 | 6 | 0.12 |
| (2,60) | 1:700:A:ALA:HB1 | 1:699:B:PHE:HD1 | 15 | 0.12 |
| (2,60) | 1:700:A:ALA:HB1 | 1:699:B:PHE:HD2 | 15 | 0.12 |
| (2,60) | 1:700:A:ALA:HB2 | 1:699:B:PHE:HD1 | 15 | 0.12 |
| (2,60) | 1:700:A:ALA:HB2 | 1:699:B:PHE:HD2 | 15 | 0.12 |
| (2,60) | 1:700:A:ALA:HB3 | 1:699:B:PHE:HD1 | 15 | 0.12 |
| (2,60) | 1:700:A:ALA:HB3 | 1:699:B:PHE:HD2 | 15 | 0.12 |
| (2,48) | 1:693:A:ILE:HD11 | 1:696:B:ARG:HH21 | 11 | 0.12 |
| (2,48) | 1:693:A:ILE:HD11 | 1:696:B:ARG:HH22 | 11 | 0.12 |
| (2,48) | 1:693:A:ILE:HD12 | 1:696:B:ARG:HH21 | 11 | 0.12 |
| (2,48) | 1:693:A:ILE:HD12 | 1:696:B:ARG:HH22 | 11 | 0.12 |
| (2,48) | 1:693:A:ILE:HD13 | 1:696:B:ARG:HH21 | 11 | 0.12 |
| (2,48) | 1:693:A:ILE:HD13 | 1:696:B:ARG:HH22 | 11 | 0.12 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG21 | 5 | 0.12 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG22 | 5 | 0.12 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG23 | 5 | 0.12 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG21 | 5 | 0.12 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG22 | 5 | 0.12 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG23 | 5 | 0.12 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG21 | 5 | 0.12 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG22 | 5 | 0.12 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG23 | 5 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG21 | 13 | 0.12 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG22 | 13 | 0.12 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG23 | 13 | 0.12 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG21 | 13 | 0.12 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG22 | 13 | 0.12 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG23 | 13 | 0.12 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG21 | 13 | 0.12 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG22 | 13 | 0.12 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG23 | 13 | 0.12 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD11 | 15 | 0.12 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD12 | 15 | 0.12 |
| (2,30) | 1:687:A:ILE:H | 1:686:B:ILE:HD13 | 15 | 0.12 |
| (2,19) | 1:678:B:TRP:HE1 | 1:683:A:ARG:HE | 11 | 0.12 |
| (2,13) | 1:666:B:TRP:HE1 | 1:666:A:TRP:HD1 | 11 | 0.12 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB2 | 9 | 0.12 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB3 | 9 | 0.12 |
| (1,257) | 1:850:B:GLY:O | 1:854:B:ILE:H | 8 | 0.12 |
| (1,257) | 1:850:B:GLY:O | 1:854:B:ILE:H | 11 | 0.12 |
| (1,249) | 1:846:B:ARG:O | 1:850:B:GLY:H | 10 | 0.12 |
| (1,243) | 1:835:B:GLY:O | 1:839:B:ALA:H | 11 | 0.12 |
| (1,239) | 1:833:B:VAL:O | 1:837:B:SER:H | 5 | 0.12 |
| (1,233) | 1:830:B:ILE:O | 1:834:B:GLN:H | 2 | 0.12 |
| (1,233) | 1:830:B:ILE:O | 1:834:B:GLN:H | 5 | 0.12 |
| (1,228) | 1:827:B:ASP:O | 1:831:B:GLU:N | 6 | 0.12 |
| (1,225) | 1:826:B:THR:O | 1:830:B:ILE:H | 15 | 0.12 |
| (1,219) | 1:813:B:SER:O | 1:817:B:ALA:H | 7 | 0.12 |
| (1,213) | 1:810:B:SER:O | 1:814:B:LEU:H | 8 | 0.12 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 1 | 0.12 |
| (1,195) | 1:801:B:GLN:O | 1:805:B:GLN:H | 2 | 0.12 |
| (1,192) | 1:799:B:LEU:O | 1:803:B:TRP:N | 6 | 0.12 |
| (1,192) | 1:799:B:LEU:O | 1:803:B:TRP:N | 7 | 0.12 |
| (1,189) | 1:798:B:ASN:O | 1:802:B:TYR:H | 10 | 0.12 |
| (1,187) | 1:797:B:TRP:O | 1:801:B:GLN:H | 9 | 0.12 |
| (1,187) | 1:797:B:TRP:O | 1:801:B:GLN:H | 13 | 0.12 |
| (1,184) | 1:795:B:TYR:O | 1:799:B:LEU:N | 5 | 0.12 |
| (1,177) | 1:792:B:ALA:O | 1:796:B:TRP:H | 1 | 0.12 |
| (1,177) | 1:792:B:ALA:O | 1:796:B:TRP:H | 4 | 0.12 |
| (1,171) | 1:850:B:GLY:O | 1:854:B:ILE:H | 8 | 0.12 |
| (1,171) | 1:850:B:GLY:O | 1:854:B:ILE:H | 11 | 0.12 |
| (1,163) | 1:846:B:ARG:O | 1:850:B:GLY:H | 10 | 0.12 |
| (1,157) | 1:835:B:GLY:O | 1:839:B:ALA:H | 11 | 0.12 |
| (1,153) | 1:833:B:VAL:O | 1:837:B:SER:H | 5 | 0.12 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (1,147) | 1:830:B:ILE:O | 1:834:B:GLN:H | 2 | 0.12 |
| (1,147) | 1:830:B:ILE:O | 1:834:B:GLN:H | 5 | 0.12 |
| (1,142) | 1:827:B:ASP:O | 1:831:B:GLU:N | 6 | 0.12 |
| (1,139) | 1:826:B:THR:O | 1:830:B:ILE:H | 15 | 0.12 |
| (1,133) | 1:813:B:SER:O | 1:817:B:ALA:H | 7 | 0.12 |
| (1,127) | 1:810:B:SER:O | 1:814:B:LEU:H | 8 | 0.12 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 1 | 0.12 |
| (1,109) | 1:801:B:GLN:O | 1:805:B:GLN:H | 2 | 0.12 |
| (1,106) | 1:799:B:LEU:O | 1:803:B:TRP:N | 6 | 0.12 |
| (1,106) | 1:799:B:LEU:O | 1:803:B:TRP:N | 7 | 0.12 |
| (1,103) | 1:798:B:ASN:O | 1:802:B:TYR:H | 10 | 0.12 |
| (1,101) | 1:797:B:TRP:O | 1:801:B:GLN:H | 9 | 0.12 |
| (1,101) | 1:797:B:TRP:O | 1:801:B:GLN:H | 13 | 0.12 |
| (1,98) | 1:795:B:TYR:O | 1:799:B:LEU:N | 5 | 0.12 |
| (1,91) | 1:792:B:ALA:O | 1:796:B:TRP:H | 1 | 0.12 |
| (1,91) | 1:792:B:ALA:O | 1:796:B:TRP:H | 4 | 0.12 |
| (1,85) | 1:850:B:GLY:O | 1:854:B:ILE:H | 8 | 0.12 |
| (1,85) | 1:850:B:GLY:O | 1:854:B:ILE:H | 11 | 0.12 |
| (1,77) | 1:846:B:ARG:O | 1:850:B:GLY:H | 10 | 0.12 |
| (1,71) | 1:835:B:GLY:O | 1:839:B:ALA:H | 11 | 0.12 |
| (1,67) | 1:833:B:VAL:O | 1:837:B:SER:H | 5 | 0.12 |
| (1,61) | 1:830:B:ILE:O | 1:834:B:GLN:H | 2 | 0.12 |
| (1,61) | 1:830:B:ILE:O | 1:834:B:GLN:H | 5 | 0.12 |
| (1,56) | 1:827:B:ASP:O | 1:831:B:GLU:N | 6 | 0.12 |
| (1,53) | 1:826:B:THR:O | 1:830:B:ILE:H | 15 | 0.12 |
| (1,47) | 1:813:B:SER:O | 1:817:B:ALA:H | 7 | 0.12 |
| (1,41) | 1:810:B:SER:O | 1:814:B:LEU:H | 8 | 0.12 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 1 | 0.12 |
| (1,23) | 1:801:B:GLN:O | 1:805:B:GLN:H | 2 | 0.12 |
| (1,20) | 1:799:B:LEU:O | 1:803:B:TRP:N | 6 | 0.12 |
| (1,20) | 1:799:B:LEU:O | 1:803:B:TRP:N | 7 | 0.12 |
| (1,17) | 1:798:B:ASN:O | 1:802:B:TYR:H | 10 | 0.12 |
| (1,15) | 1:797:B:TRP:O | 1:801:B:GLN:H | 9 | 0.12 |
| (1,15) | 1:797:B:TRP:O | 1:801:B:GLN:H | 13 | 0.12 |
| (1,12) | 1:795:B:TYR:O | 1:799:B:LEU:N | 5 | 0.12 |
| (1,5) | 1:792:B:ALA:O | 1:796:B:TRP:H | 1 | 0.12 |
| (1,5) | 1:792:B:ALA:O | 1:796:B:TRP:H | 4 | 0.12 |
| (2,1482) | 1:852:A:GLU:H | 1:848:A:ARG:HG2 | 13 | 0.11 |
| (2,1482) | 1:852:A:GLU:H | 1:848:A:ARG:HG3 | 13 | 0.11 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 10 | 0.11 |
| (2,1481) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 10 | 0.11 |
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 14 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1479) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 14 | 0.11 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 3 | 0.11 |
| (2,1475) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 3 | 0.11 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 11 | 0.11 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 11 | 0.11 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 11 | 0.11 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 11 | 0.11 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 11 | 0.11 |
| (2,1474) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 11 | 0.11 |
| (2,1436) | 1:782:A:VAL:HG21 | 1:779:A:THR:HA | 13 | 0.11 |
| (2,1436) | 1:782:A:VAL:HG22 | 1:779:A:THR:HA | 13 | 0.11 |
| (2,1436) | 1:782:A:VAL:HG23 | 1:779:A:THR:HA | 13 | 0.11 |
| (2,1391) | 1:775:A:LEU:H | 1:774:A:LEU:HA | 7 | 0.11 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 2 | 0.11 |
| (2,1364) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 2 | 0.11 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 2 | 0.11 |
| (2,1364) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 2 | 0.11 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 2 | 0.11 |
| (2,1364) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 2 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 6 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 6 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 6 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 6 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 6 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 6 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 10 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 10 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 10 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 10 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 10 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 10 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 13 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 13 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 13 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 13 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 13 | 0.11 |
| (2,1348) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 13 | 0.11 |
| (2,1329) | 1:748:A:LEU:H | 1:745:A:SER:HA | 4 | 0.11 |
| (2,1329) | 1:748:A:LEU:H | 1:745:A:SER:HA | 11 | 0.11 |
| (2,1322) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 2 | 0.11 |
| (2,1322) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 2 | 0.11 |
| (2,1322) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 2 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1322) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 9 | 0.11 |
| (2,1322) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 9 | 0.11 |
| (2,1322) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 9 | 0.11 |
| (2,1294) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 11 | 0.11 |
| (2,1290) | 1:710:A:GLN:H | 1:709:A:ARG:HA | 13 | 0.11 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 14 | 0.11 |
| (2,1280) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 14 | 0.11 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 14 | 0.11 |
| (2,1280) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 14 | 0.11 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 14 | 0.11 |
| (2,1280) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 14 | 0.11 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 5 | 0.11 |
| (2,1271) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 5 | 0.11 |
| (2,1264) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 10 | 0.11 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 13 | 0.11 |
| (2,1263) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 13 | 0.11 |
| (2,1246) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 4 | 0.11 |
| (2,1246) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 13 | 0.11 |
| (2,1246) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 14 | 0.11 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 10 | 0.11 |
| (2,1243) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 10 | 0.11 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 10 | 0.11 |
| (2,1243) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 10 | 0.11 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 10 | 0.11 |
| (2,1243) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 10 | 0.11 |
| (2,1224) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 11 | 0.11 |
| (2,1223) | 1:701:A:VAL:HG21 | 1:698:A:VAL:HA | 15 | 0.11 |
| (2,1223) | 1:701:A:VAL:HG22 | 1:698:A:VAL:HA | 15 | 0.11 |
| (2,1223) | 1:701:A:VAL:HG23 | 1:698:A:VAL:HA | 15 | 0.11 |
| (2,1206) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 7 | 0.11 |
| (2,1206) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 7 | 0.11 |
| (2,1206) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 7 | 0.11 |
| (2,1202) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA2 | 7 | 0.11 |
| (2,1202) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA3 | 7 | 0.11 |
| (2,1202) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA2 | 7 | 0.11 |
| (2,1202) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA3 | 7 | 0.11 |
| (2,1202) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA2 | 7 | 0.11 |
| (2,1202) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA3 | 7 | 0.11 |
| (2,1195) | 1:695:A:LEU:HD21 | 1:698:A:VAL:HB | 6 | 0.11 |
| (2,1195) | 1:695:A:LEU:HD22 | 1:698:A:VAL:HB | 6 | 0.11 |
| (2,1195) | 1:695:A:LEU:HD23 | 1:698:A:VAL:HB | 6 | 0.11 |
| (2,1188) | 1:693:A:ILE:HG21 | 1:693:A:ILE:H | 13 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1188) | 1:693:A:ILE:HG22 | 1:693:A:ILE:H | 13 | 0.11 |
| (2,1188) | 1:693:A:ILE:HG23 | 1:693:A:ILE:H | 13 | 0.11 |
| (2,1182) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB2 | 8 | 0.11 |
| (2,1182) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB3 | 8 | 0.11 |
| (2,1182) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB2 | 8 | 0.11 |
| (2,1182) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB3 | 8 | 0.11 |
| (2,1182) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB2 | 8 | 0.11 |
| (2,1182) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB3 | 8 | 0.11 |
| (2,1180) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HA | 11 | 0.11 |
| (2,1180) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HA | 11 | 0.11 |
| (2,1180) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HA | 11 | 0.11 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 6 | 0.11 |
| (2,1177) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 6 | 0.11 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 6 | 0.11 |
| (2,1177) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 6 | 0.11 |
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 6 | 0.11 |
| (2,1177) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 6 | 0.11 |
| (2,1173) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD11 | 14 | 0.11 |
| (2,1173) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD12 | 14 | 0.11 |
| (2,1173) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD13 | 14 | 0.11 |
| (2,1173) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD11 | 14 | 0.11 |
| (2,1173) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD12 | 14 | 0.11 |
| (2,1173) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD13 | 14 | 0.11 |
| (2,1173) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD11 | 14 | 0.11 |
| (2,1173) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD12 | 14 | 0.11 |
| (2,1173) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD13 | 14 | 0.11 |
| (2,1168) | 1:686:A:ILE:HD11 | 1:685:A:PHE:H | 13 | 0.11 |
| (2,1168) | 1:686:A:ILE:HD12 | 1:685:A:PHE:H | 13 | 0.11 |
| (2,1168) | 1:686:A:ILE:HD13 | 1:685:A:PHE:H | 13 | 0.11 |
| (2,1167) | 1:686:A:ILE:HD11 | 1:683:A:ARG:HA | 13 | 0.11 |
| (2,1167) | 1:686:A:ILE:HD12 | 1:683:A:ARG:HA | 13 | 0.11 |
| (2,1167) | 1:686:A:ILE:HD13 | 1:683:A:ARG:HA | 13 | 0.11 |
| (2,1151) | 1:684:A:ILE:HD11 | 1:681:A:TYR:HA | 15 | 0.11 |
| (2,1151) | 1:684:A:ILE:HD12 | 1:681:A:TYR:HA | 15 | 0.11 |
| (2,1151) | 1:684:A:ILE:HD13 | 1:681:A:TYR:HA | 15 | 0.11 |
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 5 | 0.11 |
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 5 | 0.11 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 5 | 0.11 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 5 | 0.11 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 5 | 0.11 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 5 | 0.11 |
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 10 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1147) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 10 | 0.11 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 10 | 0.11 |
| (2,1147) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 10 | 0.11 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 10 | 0.11 |
| (2,1147) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 10 | 0.11 |
| (2,1142) | 1:681:A:TYR:H | 1:682:A:ILE:H | 9 | 0.11 |
| (2,1142) | 1:681:A:TYR:H | 1:682:A:ILE:H | 11 | 0.11 |
| (2,1139) | 1:680:A:TRP:HE1 | 1:683:A:ARG:HH21 | 2 | 0.11 |
| (2,1139) | 1:680:A:TRP:HE1 | 1:683:A:ARG:HH22 | 2 | 0.11 |
| (2,1138) | 1:679:A:LEU:HD11 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,1138) | 1:679:A:LEU:HD12 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,1138) | 1:679:A:LEU:HD13 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,1138) | 1:679:A:LEU:HD21 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,1138) | 1:679:A:LEU:HD22 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,1138) | 1:679:A:LEU:HD23 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,1136) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 1 | 0.11 |
| (2,1119) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD11 | 15 | 0.11 |
| (2,1119) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD12 | 15 | 0.11 |
| (2,1119) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD13 | 15 | 0.11 |
| (2,1119) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD21 | 15 | 0.11 |
| (2,1119) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD22 | 15 | 0.11 |
| (2,1119) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD23 | 15 | 0.11 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 12 | 0.11 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 12 | 0.11 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 12 | 0.11 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 12 | 0.11 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 12 | 0.11 |
| (2,1114) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 12 | 0.11 |
| (2,1113) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB1 | 10 | 0.11 |
| (2,1113) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB2 | 10 | 0.11 |
| (2,1113) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB3 | 10 | 0.11 |
| (2,1108) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,1108) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,1108) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,1108) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,1108) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,1108) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,1108) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 8 | 0.11 |
| (2,1108) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 8 | 0.11 |
| (2,1108) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 8 | 0.11 |
| (2,1108) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 8 | 0.11 |
| (2,1108) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 8 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1108) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 8 | 0.11 |
| (2,1097) | 1:667:A:ALA:HB1 | 1:664:A:ASP:HA | 14 | 0.11 |
| (2,1097) | 1:667:A:ALA:HB2 | 1:664:A:ASP:HA | 14 | 0.11 |
| (2,1097) | 1:667:A:ALA:HB3 | 1:664:A:ASP:HA | 14 | 0.11 |
| (2,1097) | 1:667:A:ALA:HB1 | 1:664:A:ASP:HA | 15 | 0.11 |
| (2,1097) | 1:667:A:ALA:HB2 | 1:664:A:ASP:HA | 15 | 0.11 |
| (2,1097) | 1:667:A:ALA:HB3 | 1:664:A:ASP:HA | 15 | 0.11 |
| (2,1092) | 1:667:A:ALA:H | 1:664:A:ASP:HA | 10 | 0.11 |
| (2,1091) | 1:666:A:TRP:HE1 | 1:662:A:GLU:H | 5 | 0.11 |
| (2,1078) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 7 | 0.11 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 1 | 0.11 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 6 | 0.11 |
| (2,1074) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 7 | 0.11 |
| (2,1057) | 1:852:A:GLU:H | 1:848:A:ARG:HG2 | 13 | 0.11 |
| (2,1057) | 1:852:A:GLU:H | 1:848:A:ARG:HG3 | 13 | 0.11 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD2 | 10 | 0.11 |
| (2,1056) | 1:839:A:ALA:H | 1:838:A:ARG:HD3 | 10 | 0.11 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG2 | 14 | 0.11 |
| (2,1054) | 1:835:A:GLY:H | 1:834:A:GLN:HG3 | 14 | 0.11 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB2 | 3 | 0.11 |
| (2,1050) | 1:806:A:GLU:H | 1:803:A:TRP:HB3 | 3 | 0.11 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD11 | 11 | 0.11 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD12 | 11 | 0.11 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD13 | 11 | 0.11 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD21 | 11 | 0.11 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD22 | 11 | 0.11 |
| (2,1049) | 1:803:A:TRP:HE1 | 1:800:A:LEU:HD23 | 11 | 0.11 |
| (2,1011) | 1:782:A:VAL:HG21 | 1:779:A:THR:HA | 13 | 0.11 |
| (2,1011) | 1:782:A:VAL:HG22 | 1:779:A:THR:HA | 13 | 0.11 |
| (2,1011) | 1:782:A:VAL:HG23 | 1:779:A:THR:HA | 13 | 0.11 |
| (2,966) | 1:775:A:LEU:H | 1:774:A:LEU:HA | 7 | 0.11 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG12 | 2 | 0.11 |
| (2,939) | 1:760:A:LEU:HD11 | 1:756:A:ILE:HG13 | 2 | 0.11 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG12 | 2 | 0.11 |
| (2,939) | 1:760:A:LEU:HD12 | 1:756:A:ILE:HG13 | 2 | 0.11 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG12 | 2 | 0.11 |
| (2,939) | 1:760:A:LEU:HD13 | 1:756:A:ILE:HG13 | 2 | 0.11 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 6 | 0.11 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 6 | 0.11 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 6 | 0.11 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 6 | 0.11 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 6 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 6 | 0.11 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 10 | 0.11 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 10 | 0.11 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 10 | 0.11 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 10 | 0.11 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 10 | 0.11 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 10 | 0.11 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA2 | 13 | 0.11 |
| (2,923) | 1:754:A:ALA:HB1 | 1:751:A:GLY:HA3 | 13 | 0.11 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA2 | 13 | 0.11 |
| (2,923) | 1:754:A:ALA:HB2 | 1:751:A:GLY:HA3 | 13 | 0.11 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA2 | 13 | 0.11 |
| (2,923) | 1:754:A:ALA:HB3 | 1:751:A:GLY:HA3 | 13 | 0.11 |
| (2,904) | 1:748:A:LEU:H | 1:745:A:SER:HA | 4 | 0.11 |
| (2,904) | 1:748:A:LEU:H | 1:745:A:SER:HA | 11 | 0.11 |
| (2,897) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 2 | 0.11 |
| (2,897) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 2 | 0.11 |
| (2,897) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 2 | 0.11 |
| (2,897) | 1:746:A:ILE:HG21 | 1:750:A:ASN:HD21 | 9 | 0.11 |
| (2,897) | 1:746:A:ILE:HG22 | 1:750:A:ASN:HD21 | 9 | 0.11 |
| (2,897) | 1:746:A:ILE:HG23 | 1:750:A:ASN:HD21 | 9 | 0.11 |
| (2,869) | 1:710:A:GLN:H | 1:710:A:GLN:HB3 | 11 | 0.11 |
| (2,865) | 1:710:A:GLN:H | 1:709:A:ARG:HA | 13 | 0.11 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB2 | 14 | 0.11 |
| (2,855) | 1:708:A:VAL:HG21 | 1:745:A:SER:HB3 | 14 | 0.11 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB2 | 14 | 0.11 |
| (2,855) | 1:708:A:VAL:HG22 | 1:745:A:SER:HB3 | 14 | 0.11 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB2 | 14 | 0.11 |
| (2,855) | 1:708:A:VAL:HG23 | 1:745:A:SER:HB3 | 14 | 0.11 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD2 | 5 | 0.11 |
| (2,846) | 1:707:A:ARG:H | 1:707:A:ARG:HD3 | 5 | 0.11 |
| (2,839) | 1:707:A:ARG:H | 1:704:A:LEU:HA | 10 | 0.11 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB2 | 13 | 0.11 |
| (2,838) | 1:707:A:ARG:H | 1:703:A:SER:HB3 | 13 | 0.11 |
| (2,821) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 4 | 0.11 |
| (2,821) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 13 | 0.11 |
| (2,821) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 14 | 0.11 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD2 | 10 | 0.11 |
| (2,818) | 1:704:A:LEU:HD11 | 1:707:A:ARG:HD3 | 10 | 0.11 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD2 | 10 | 0.11 |
| (2,818) | 1:704:A:LEU:HD12 | 1:707:A:ARG:HD3 | 10 | 0.11 |
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD2 | 10 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,818) | 1:704:A:LEU:HD13 | 1:707:A:ARG:HD3 | 10 | 0.11 |
| (2,799) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 11 | 0.11 |
| (2,798) | 1:701:A:VAL:HG21 | 1:698:A:VAL:HA | 15 | 0.11 |
| (2,798) | 1:701:A:VAL:HG22 | 1:698:A:VAL:HA | 15 | 0.11 |
| (2,798) | 1:701:A:VAL:HG23 | 1:698:A:VAL:HA | 15 | 0.11 |
| (2,781) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 7 | 0.11 |
| (2,781) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 7 | 0.11 |
| (2,781) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 7 | 0.11 |
| (2,777) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA2 | 7 | 0.11 |
| (2,777) | 1:697:A:ILE:HG21 | 1:694:A:GLY:HA3 | 7 | 0.11 |
| (2,777) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA2 | 7 | 0.11 |
| (2,777) | 1:697:A:ILE:HG22 | 1:694:A:GLY:HA3 | 7 | 0.11 |
| (2,777) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA2 | 7 | 0.11 |
| (2,777) | 1:697:A:ILE:HG23 | 1:694:A:GLY:HA3 | 7 | 0.11 |
| (2,770) | 1:695:A:LEU:HD21 | 1:698:A:VAL:HB | 6 | 0.11 |
| (2,770) | 1:695:A:LEU:HD22 | 1:698:A:VAL:HB | 6 | 0.11 |
| (2,770) | 1:695:A:LEU:HD23 | 1:698:A:VAL:HB | 6 | 0.11 |
| (2,763) | 1:693:A:ILE:HG21 | 1:693:A:ILE:H | 13 | 0.11 |
| (2,763) | 1:693:A:ILE:HG22 | 1:693:A:ILE:H | 13 | 0.11 |
| (2,763) | 1:693:A:ILE:HG23 | 1:693:A:ILE:H | 13 | 0.11 |
| (2,757) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB2 | 8 | 0.11 |
| (2,757) | 1:692:A:LEU:HD11 | 1:691:A:SER:HB3 | 8 | 0.11 |
| (2,757) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB2 | 8 | 0.11 |
| (2,757) | 1:692:A:LEU:HD12 | 1:691:A:SER:HB3 | 8 | 0.11 |
| (2,757) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB2 | 8 | 0.11 |
| (2,757) | 1:692:A:LEU:HD13 | 1:691:A:SER:HB3 | 8 | 0.11 |
| (2,755) | 1:692:A:LEU:HD11 | 1:689:A:VAL:HA | 11 | 0.11 |
| (2,755) | 1:692:A:LEU:HD12 | 1:689:A:VAL:HA | 11 | 0.11 |
| (2,755) | 1:692:A:LEU:HD13 | 1:689:A:VAL:HA | 11 | 0.11 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE1 | 6 | 0.11 |
| (2,752) | 1:689:A:VAL:HG21 | 1:685:A:PHE:HE2 | 6 | 0.11 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE1 | 6 | 0.11 |
| (2,752) | 1:689:A:VAL:HG22 | 1:685:A:PHE:HE2 | 6 | 0.11 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE1 | 6 | 0.11 |
| (2,752) | 1:689:A:VAL:HG23 | 1:685:A:PHE:HE2 | 6 | 0.11 |
| (2,748) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD11 | 14 | 0.11 |
| (2,748) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD12 | 14 | 0.11 |
| (2,748) | 1:688:A:ILE:HD11 | 1:684:A:ILE:HD13 | 14 | 0.11 |
| (2,748) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD11 | 14 | 0.11 |
| (2,748) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD12 | 14 | 0.11 |
| (2,748) | 1:688:A:ILE:HD12 | 1:684:A:ILE:HD13 | 14 | 0.11 |
| (2,748) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD11 | 14 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,748) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD12 | 14 | 0.11 |
| (2,748) | 1:688:A:ILE:HD13 | 1:684:A:ILE:HD13 | 14 | 0.11 |
| (2,743) | 1:686:A:ILE:HD11 | 1:685:A:PHE:H | 13 | 0.11 |
| (2,743) | 1:686:A:ILE:HD12 | 1:685:A:PHE:H | 13 | 0.11 |
| (2,743) | 1:686:A:ILE:HD13 | 1:685:A:PHE:H | 13 | 0.11 |
| (2,742) | 1:686:A:ILE:HD11 | 1:683:A:ARG:HA | 13 | 0.11 |
| (2,742) | 1:686:A:ILE:HD12 | 1:683:A:ARG:HA | 13 | 0.11 |
| (2,742) | 1:686:A:ILE:HD13 | 1:683:A:ARG:HA | 13 | 0.11 |
| (2,726) | 1:684:A:ILE:HD11 | 1:681:A:TYR:HA | 15 | 0.11 |
| (2,726) | 1:684:A:ILE:HD12 | 1:681:A:TYR:HA | 15 | 0.11 |
| (2,726) | 1:684:A:ILE:HD13 | 1:681:A:TYR:HA | 15 | 0.11 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 5 | 0.11 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 5 | 0.11 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 5 | 0.11 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 5 | 0.11 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 5 | 0.11 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 5 | 0.11 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB2 | 10 | 0.11 |
| (2,722) | 1:682:A:ILE:HD11 | 1:685:A:PHE:HB3 | 10 | 0.11 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB2 | 10 | 0.11 |
| (2,722) | 1:682:A:ILE:HD12 | 1:685:A:PHE:HB3 | 10 | 0.11 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB2 | 10 | 0.11 |
| (2,722) | 1:682:A:ILE:HD13 | 1:685:A:PHE:HB3 | 10 | 0.11 |
| (2,717) | 1:681:A:TYR:H | 1:682:A:ILE:H | 9 | 0.11 |
| (2,717) | 1:681:A:TYR:H | 1:682:A:ILE:H | 11 | 0.11 |
| (2,714) | 1:680:A:TRP:HE1 | 1:683:A:ARG:HH21 | 2 | 0.11 |
| (2,714) | 1:680:A:TRP:HE1 | 1:683:A:ARG:HH22 | 2 | 0.11 |
| (2,713) | 1:679:A:LEU:HD11 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,713) | 1:679:A:LEU:HD12 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,713) | 1:679:A:LEU:HD13 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,713) | 1:679:A:LEU:HD21 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,713) | 1:679:A:LEU:HD22 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,713) | 1:679:A:LEU:HD23 | 1:678:A:TRP:HH2 | 10 | 0.11 |
| (2,711) | 1:678:A:TRP:HE1 | 1:682:A:ILE:H | 1 | 0.11 |
| (2,694) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD11 | 15 | 0.11 |
| (2,694) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD12 | 15 | 0.11 |
| (2,694) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD13 | 15 | 0.11 |
| (2,694) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD21 | 15 | 0.11 |
| (2,694) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD22 | 15 | 0.11 |
| (2,694) | 1:672:A:TRP:HE1 | 1:669:A:LEU:HD23 | 15 | 0.11 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD11 | 12 | 0.11 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD12 | 12 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD13 | 12 | 0.11 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD21 | 12 | 0.11 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD22 | 12 | 0.11 |
| (2,689) | 1:670:A:TRP:HE1 | 1:669:A:LEU:HD23 | 12 | 0.11 |
| (2,688) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB1 | 10 | 0.11 |
| (2,688) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB2 | 10 | 0.11 |
| (2,688) | 1:670:A:TRP:HE1 | 1:667:A:ALA:HB3 | 10 | 0.11 |
| (2,683) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,683) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,683) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,683) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,683) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,683) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 1 | 0.11 |
| (2,683) | 1:669:A:LEU:HD11 | 1:672:A:TRP:HZ3 | 8 | 0.11 |
| (2,683) | 1:669:A:LEU:HD12 | 1:672:A:TRP:HZ3 | 8 | 0.11 |
| (2,683) | 1:669:A:LEU:HD13 | 1:672:A:TRP:HZ3 | 8 | 0.11 |
| (2,683) | 1:669:A:LEU:HD21 | 1:672:A:TRP:HZ3 | 8 | 0.11 |
| (2,683) | 1:669:A:LEU:HD22 | 1:672:A:TRP:HZ3 | 8 | 0.11 |
| (2,683) | 1:669:A:LEU:HD23 | 1:672:A:TRP:HZ3 | 8 | 0.11 |
| (2,672) | 1:667:A:ALA:HB1 | 1:664:A:ASP:HA | 14 | 0.11 |
| (2,672) | 1:667:A:ALA:HB2 | 1:664:A:ASP:HA | 14 | 0.11 |
| (2,672) | 1:667:A:ALA:HB3 | 1:664:A:ASP:HA | 14 | 0.11 |
| (2,672) | 1:667:A:ALA:HB1 | 1:664:A:ASP:HA | 15 | 0.11 |
| (2,672) | 1:667:A:ALA:HB2 | 1:664:A:ASP:HA | 15 | 0.11 |
| (2,672) | 1:667:A:ALA:HB3 | 1:664:A:ASP:HA | 15 | 0.11 |
| (2,667) | 1:667:A:ALA:H | 1:664:A:ASP:HA | 10 | 0.11 |
| (2,666) | 1:666:A:TRP:HE1 | 1:662:A:GLU:H | 5 | 0.11 |
| (2,653) | 1:665:A:LYS:H | 1:662:A:GLU:HA | 7 | 0.11 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 1 | 0.11 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 6 | 0.11 |
| (2,649) | 1:664:A:ASP:H | 1:663:A:LEU:HA | 7 | 0.11 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG11 | 6 | 0.11 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG12 | 6 | 0.11 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG13 | 6 | 0.11 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG21 | 6 | 0.11 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG22 | 6 | 0.11 |
| (2,628) | 1:826:B:THR:H | 1:822:B:VAL:HG23 | 6 | 0.11 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD21 | 14 | 0.11 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD22 | 14 | 0.11 |
| (2,617) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD23 | 14 | 0.11 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 1 | 0.11 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 1 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 1 | 0.11 |
| (2,600) | 1:784:B:LEU:HD21 | 1:781:B:ILE:HA | 9 | 0.11 |
| (2,600) | 1:784:B:LEU:HD22 | 1:781:B:ILE:HA | 9 | 0.11 |
| (2,600) | 1:784:B:LEU:HD23 | 1:781:B:ILE:HA | 9 | 0.11 |
| (2,589) | 1:783:B:GLU:H | 1:782:B:VAL:HA | 13 | 0.11 |
| (2,586) | 1:782:B:VAL:HG21 | 1:779:B:THR:HA | 1 | 0.11 |
| (2,586) | 1:782:B:VAL:HG22 | 1:779:B:THR:HA | 1 | 0.11 |
| (2,586) | 1:782:B:VAL:HG23 | 1:779:B:THR:HA | 1 | 0.11 |
| (2,586) | 1:782:B:VAL:HG21 | 1:779:B:THR:HA | 10 | 0.11 |
| (2,586) | 1:782:B:VAL:HG22 | 1:779:B:THR:HA | 10 | 0.11 |
| (2,586) | 1:782:B:VAL:HG23 | 1:779:B:THR:HA | 10 | 0.11 |
| (2,580) | 1:781:B:ILE:HG21 | 1:778:B:VAL:HA | 2 | 0.11 |
| (2,580) | 1:781:B:ILE:HG22 | 1:778:B:VAL:HA | 2 | 0.11 |
| (2,580) | 1:781:B:ILE:HG23 | 1:778:B:VAL:HA | 2 | 0.11 |
| (2,576) | 1:781:B:ILE:H | 1:780:B:ARG:HA | 3 | 0.11 |
| (2,576) | 1:781:B:ILE:H | 1:780:B:ARG:HA | 8 | 0.11 |
| (2,576) | 1:781:B:ILE:H | 1:780:B:ARG:HA | 12 | 0.11 |
| (2,576) | 1:781:B:ILE:H | 1:780:B:ARG:HA | 14 | 0.11 |
| (2,564) | 1:778:B:VAL:HG21 | 1:775:B:LEU:HA | 13 | 0.11 |
| (2,564) | 1:778:B:VAL:HG22 | 1:775:B:LEU:HA | 13 | 0.11 |
| (2,564) | 1:778:B:VAL:HG23 | 1:775:B:LEU:HA | 13 | 0.11 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD2 | 15 | 0.11 |
| (2,558) | 1:777:B:ILE:HG21 | 1:780:B:ARG:HD3 | 15 | 0.11 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD2 | 15 | 0.11 |
| (2,558) | 1:777:B:ILE:HG22 | 1:780:B:ARG:HD3 | 15 | 0.11 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD2 | 15 | 0.11 |
| (2,558) | 1:777:B:ILE:HG23 | 1:780:B:ARG:HD3 | 15 | 0.11 |
| (2,551) | 1:776:B:LEU:HD11 | 1:773:B:ASP:HB2 | 9 | 0.11 |
| (2,551) | 1:776:B:LEU:HD11 | 1:773:B:ASP:HB3 | 9 | 0.11 |
| (2,551) | 1:776:B:LEU:HD12 | 1:773:B:ASP:HB2 | 9 | 0.11 |
| (2,551) | 1:776:B:LEU:HD12 | 1:773:B:ASP:HB3 | 9 | 0.11 |
| (2,551) | 1:776:B:LEU:HD13 | 1:773:B:ASP:HB2 | 9 | 0.11 |
| (2,551) | 1:776:B:LEU:HD13 | 1:773:B:ASP:HB3 | 9 | 0.11 |
| (2,545) | 1:775:B:LEU:HD11 | 1:772:B:ARG:HA | 11 | 0.11 |
| (2,545) | 1:775:B:LEU:HD12 | 1:772:B:ARG:HA | 11 | 0.11 |
| (2,545) | 1:775:B:LEU:HD13 | 1:772:B:ARG:HA | 11 | 0.11 |
| (2,526) | 1:771:B:LEU:HD11 | 1:768:B:TYR:HE1 | 5 | 0.11 |
| (2,526) | 1:771:B:LEU:HD11 | 1:768:B:TYR:HE2 | 5 | 0.11 |
| (2,526) | 1:771:B:LEU:HD12 | 1:768:B:TYR:HE1 | 5 | 0.11 |
| (2,526) | 1:771:B:LEU:HD12 | 1:768:B:TYR:HE2 | 5 | 0.11 |
| (2,526) | 1:771:B:LEU:HD13 | 1:768:B:TYR:HE1 | 5 | 0.11 |
| (2,526) | 1:771:B:LEU:HD13 | 1:768:B:TYR:HE2 | 5 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,518) | 1:763:B:LEU:HD11 | 1:759:B:ASP:HA | 9 | 0.11 |
| (2,518) | 1:763:B:LEU:HD12 | 1:759:B:ASP:HA | 9 | 0.11 |
| (2,518) | 1:763:B:LEU:HD13 | 1:759:B:ASP:HA | 9 | 0.11 |
| (2,506) | 1:755:B:LEU:H | 1:756:B:ILE:H | 12 | 0.11 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB2 | 12 | 0.11 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB3 | 12 | 0.11 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB2 | 13 | 0.11 |
| (2,493) | 1:754:B:ALA:H | 1:750:B:ASN:HB3 | 13 | 0.11 |
| (2,483) | 1:749:B:VAL:H | 1:748:B:LEU:HA | 12 | 0.11 |
| (2,479) | 1:748:B:LEU:H | 1:745:B:SER:HA | 14 | 0.11 |
| (2,465) | 1:746:B:ILE:H | 1:743:B:ASP:HB2 | 5 | 0.11 |
| (2,465) | 1:746:B:ILE:H | 1:743:B:ASP:HB3 | 5 | 0.11 |
| (2,429) | 1:708:B:VAL:HG21 | 1:707:B:ARG:HD2 | 8 | 0.11 |
| (2,429) | 1:708:B:VAL:HG21 | 1:707:B:ARG:HD3 | 8 | 0.11 |
| (2,429) | 1:708:B:VAL:HG22 | 1:707:B:ARG:HD2 | 8 | 0.11 |
| (2,429) | 1:708:B:VAL:HG22 | 1:707:B:ARG:HD3 | 8 | 0.11 |
| (2,429) | 1:708:B:VAL:HG23 | 1:707:B:ARG:HD2 | 8 | 0.11 |
| (2,429) | 1:708:B:VAL:HG23 | 1:707:B:ARG:HD3 | 8 | 0.11 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD2 | 13 | 0.11 |
| (2,421) | 1:707:B:ARG:H | 1:707:B:ARG:HD3 | 13 | 0.11 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB2 | 14 | 0.11 |
| (2,413) | 1:707:B:ARG:H | 1:703:B:SER:HB3 | 14 | 0.11 |
| (2,405) | 1:705:B:VAL:HG21 | 1:702:B:LEU:HG | 6 | 0.11 |
| (2,405) | 1:705:B:VAL:HG22 | 1:702:B:LEU:HG | 6 | 0.11 |
| (2,405) | 1:705:B:VAL:HG23 | 1:702:B:LEU:HG | 6 | 0.11 |
| (2,405) | 1:705:B:VAL:HG21 | 1:702:B:LEU:HG | 7 | 0.11 |
| (2,405) | 1:705:B:VAL:HG22 | 1:702:B:LEU:HG | 7 | 0.11 |
| (2,405) | 1:705:B:VAL:HG23 | 1:702:B:LEU:HG | 7 | 0.11 |
| (2,390) | 1:704:B:LEU:H | 1:704:B:LEU:HB3 | 12 | 0.11 |
| (2,367) | 1:700:B:ALA:HB1 | 1:697:B:ILE:HA | 14 | 0.11 |
| (2,367) | 1:700:B:ALA:HB2 | 1:697:B:ILE:HA | 14 | 0.11 |
| (2,367) | 1:700:B:ALA:HB3 | 1:697:B:ILE:HA | 14 | 0.11 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 5 | 0.11 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 5 | 0.11 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 5 | 0.11 |
| (2,355) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HA | 2 | 0.11 |
| (2,355) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HA | 2 | 0.11 |
| (2,355) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HA | 2 | 0.11 |
| (2,352) | 1:697:B:ILE:HG21 | 1:694:B:GLY:HA2 | 7 | 0.11 |
| (2,352) | 1:697:B:ILE:HG21 | 1:694:B:GLY:HA3 | 7 | 0.11 |
| (2,352) | 1:697:B:ILE:HG22 | 1:694:B:GLY:HA2 | 7 | 0.11 |
| (2,352) | 1:697:B:ILE:HG22 | 1:694:B:GLY:HA3 | 7 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,352) | 1:697:B:ILE:HG23 | 1:694:B:GLY:HA2 | 7 | 0.11 |
| (2,352) | 1:697:B:ILE:HG23 | 1:694:B:GLY:HA3 | 7 | 0.11 |
| (2,336) | 1:693:B:ILE:HD11 | 1:697:B:ILE:H | 13 | 0.11 |
| (2,336) | 1:693:B:ILE:HD12 | 1:697:B:ILE:H | 13 | 0.11 |
| (2,336) | 1:693:B:ILE:HD13 | 1:697:B:ILE:H | 13 | 0.11 |
| (2,330) | 1:692:B:LEU:HD11 | 1:689:B:VAL:HA | 10 | 0.11 |
| (2,330) | 1:692:B:LEU:HD12 | 1:689:B:VAL:HA | 10 | 0.11 |
| (2,330) | 1:692:B:LEU:HD13 | 1:689:B:VAL:HA | 10 | 0.11 |
| (2,324) | 1:688:B:ILE:HG21 | 1:692:B:LEU:HG | 13 | 0.11 |
| (2,324) | 1:688:B:ILE:HG22 | 1:692:B:LEU:HG | 13 | 0.11 |
| (2,324) | 1:688:B:ILE:HG23 | 1:692:B:LEU:HG | 13 | 0.11 |
| (2,304) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HB2 | 7 | 0.11 |
| (2,304) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HB3 | 7 | 0.11 |
| (2,304) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HB2 | 7 | 0.11 |
| (2,304) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HB3 | 7 | 0.11 |
| (2,304) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HB2 | 7 | 0.11 |
| (2,304) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HB3 | 7 | 0.11 |
| (2,301) | 1:684:B:ILE:HD11 | 1:681:B:TYR:HA | 10 | 0.11 |
| (2,301) | 1:684:B:ILE:HD12 | 1:681:B:TYR:HA | 10 | 0.11 |
| (2,301) | 1:684:B:ILE:HD13 | 1:681:B:TYR:HA | 10 | 0.11 |
| (2,296) | 1:682:B:ILE:HD11 | 1:681:B:TYR:H | 4 | 0.11 |
| (2,296) | 1:682:B:ILE:HD12 | 1:681:B:TYR:H | 4 | 0.11 |
| (2,296) | 1:682:B:ILE:HD13 | 1:681:B:TYR:H | 4 | 0.11 |
| (2,292) | 1:681:B:TYR:H | 1:682:B:ILE:H | 9 | 0.11 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD11 | 1 | 0.11 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD12 | 1 | 0.11 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD13 | 1 | 0.11 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD11 | 15 | 0.11 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD12 | 15 | 0.11 |
| (2,290) | 1:680:B:TRP:HE1 | 1:684:B:ILE:HD13 | 15 | 0.11 |
| (2,286) | 1:678:B:TRP:HE1 | 1:682:B:ILE:H | 4 | 0.11 |
| (2,286) | 1:678:B:TRP:HE1 | 1:682:B:ILE:H | 15 | 0.11 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 8 | 0.11 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 8 | 0.11 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 8 | 0.11 |
| (2,276) | 1:676:B:THR:HG21 | 1:666:B:TRP:HZ3 | 14 | 0.11 |
| (2,276) | 1:676:B:THR:HG22 | 1:666:B:TRP:HZ3 | 14 | 0.11 |
| (2,276) | 1:676:B:THR:HG23 | 1:666:B:TRP:HZ3 | 14 | 0.11 |
| (2,268) | 1:672:B:TRP:H | 1:673:B:PHE:H | 11 | 0.11 |
| (2,268) | 1:672:B:TRP:H | 1:673:B:PHE:H | 15 | 0.11 |
| (2,263) | 1:670:B:TRP:HE1 | 1:667:B:ALA:HB1 | 7 | 0.11 |
| (2,263) | 1:670:B:TRP:HE1 | 1:667:B:ALA:HB2 | 7 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,263) | 1:670:B:TRP:HE1 | 1:667:B:ALA:HB3 | 7 | 0.11 |
| (2,245) | 1:667:B:ALA:H | 1:666:B:TRP:HD1 | 8 | 0.11 |
| (2,243) | 1:667:B:ALA:H | 1:666:B:TRP:HA | 9 | 0.11 |
| (2,242) | 1:667:B:ALA:H | 1:664:B:ASP:HA | 8 | 0.11 |
| (2,234) | 1:666:B:TRP:H | 1:663:B:LEU:HA | 14 | 0.11 |
| (2,233) | 1:665:B:LYS:H | 1:666:B:TRP:HD1 | 2 | 0.11 |
| (2,228) | 1:665:B:LYS:H | 1:662:B:GLU:HA | 12 | 0.11 |
| (2,205) | 1:831:B:GLU:H | 1:816:B:ASN:HD21 | 13 | 0.11 |
| (2,205) | 1:831:B:GLU:H | 1:816:B:ASN:HD22 | 13 | 0.11 |
| (2,192) | 1:816:A:ASN:H | 1:831:A:GLU:HG2 | 6 | 0.11 |
| (2,192) | 1:816:A:ASN:H | 1:831:A:GLU:HG3 | 6 | 0.11 |
| (2,191) | 1:816:A:ASN:H | 1:831:A:GLU:HG2 | 6 | 0.11 |
| (2,191) | 1:816:A:ASN:H | 1:831:A:GLU:HG3 | 6 | 0.11 |
| (2,177) | 1:803:A:TRP:HE1 | 1:764:B:SER:HG | 11 | 0.11 |
| (2,177) | 1:803:A:TRP:HE1 | 1:764:B:SER:HG | 12 | 0.11 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 15 | 0.11 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 15 | 0.11 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 15 | 0.11 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 15 | 0.11 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG12 | 6 | 0.11 |
| (2,157) | 1:794:B:LYS:H | 1:847:B:ILE:HG13 | 6 | 0.11 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB2 | 4 | 0.11 |
| (2,141) | 1:771:B:LEU:H | 1:806:A:GLU:HB3 | 4 | 0.11 |
| (2,126) | 1:785:A:LEU:HD21 | 1:749:B:VAL:HB | 6 | 0.11 |
| (2,126) | 1:785:A:LEU:HD22 | 1:749:B:VAL:HB | 6 | 0.11 |
| (2,126) | 1:785:A:LEU:HD23 | 1:749:B:VAL:HB | 6 | 0.11 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB2 | 1 | 0.11 |
| (2,118) | 1:785:B:LEU:HD21 | 1:716:A:SER:HB3 | 1 | 0.11 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB2 | 1 | 0.11 |
| (2,118) | 1:785:B:LEU:HD22 | 1:716:A:SER:HB3 | 1 | 0.11 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB2 | 1 | 0.11 |
| (2,118) | 1:785:B:LEU:HD23 | 1:716:A:SER:HB3 | 1 | 0.11 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD2 | 2 | 0.11 |
| (2,108) | 1:777:A:ILE:HD11 | 1:742:B:ARG:HD3 | 2 | 0.11 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD2 | 2 | 0.11 |
| (2,108) | 1:777:A:ILE:HD12 | 1:742:B:ARG:HD3 | 2 | 0.11 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD2 | 2 | 0.11 |
| (2,108) | 1:777:A:ILE:HD13 | 1:742:B:ARG:HD3 | 2 | 0.11 |
| (2,96) | 1:755:A:LEU:HD11 | 1:710:B:GLN:HE21 | 5 | 0.11 |
| (2,96) | 1:755:A:LEU:HD11 | 1:710:B:GLN:HE22 | 5 | 0.11 |
| (2,96) | 1:755:A:LEU:HD12 | 1:710:B:GLN:HE21 | 5 | 0.11 |
| (2,96) | 1:755:A:LEU:HD12 | 1:710:B:GLN:HE22 | 5 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,96) | 1:755:A:LEU:HD13 | 1:710:B:GLN:HE21 | 5 | 0.11 |
| (2,96) | 1:755:A:LEU:HD13 | 1:710:B:GLN:HE22 | 5 | 0.11 |
| (2,96) | 1:755:A:LEU:HD11 | 1:710:B:GLN:HE21 | 10 | 0.11 |
| (2,96) | 1:755:A:LEU:HD11 | 1:710:B:GLN:HE22 | 10 | 0.11 |
| (2,96) | 1:755:A:LEU:HD12 | 1:710:B:GLN:HE21 | 10 | 0.11 |
| (2,96) | 1:755:A:LEU:HD12 | 1:710:B:GLN:HE22 | 10 | 0.11 |
| (2,96) | 1:755:A:LEU:HD13 | 1:710:B:GLN:HE21 | 10 | 0.11 |
| (2,96) | 1:755:A:LEU:HD13 | 1:710:B:GLN:HE22 | 10 | 0.11 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE1 | 14 | 0.11 |
| (2,75) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HE2 | 14 | 0.11 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE1 | 14 | 0.11 |
| (2,75) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HE2 | 14 | 0.11 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE1 | 14 | 0.11 |
| (2,75) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HE2 | 14 | 0.11 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB2 | 8 | 0.11 |
| (2,72) | 1:708:A:VAL:HG21 | 1:712:B:TYR:HB3 | 8 | 0.11 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB2 | 8 | 0.11 |
| (2,72) | 1:708:A:VAL:HG22 | 1:712:B:TYR:HB3 | 8 | 0.11 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB2 | 8 | 0.11 |
| (2,72) | 1:708:A:VAL:HG23 | 1:712:B:TYR:HB3 | 8 | 0.11 |
| (2,69) | 1:704:A:LEU:HD21 | 1:706:B:ASN:HB2 | 13 | 0.11 |
| (2,69) | 1:704:A:LEU:HD21 | 1:706:B:ASN:HB3 | 13 | 0.11 |
| (2,69) | 1:704:A:LEU:HD22 | 1:706:B:ASN:HB2 | 13 | 0.11 |
| (2,69) | 1:704:A:LEU:HD22 | 1:706:B:ASN:HB3 | 13 | 0.11 |
| (2,69) | 1:704:A:LEU:HD23 | 1:706:B:ASN:HB2 | 13 | 0.11 |
| (2,69) | 1:704:A:LEU:HD23 | 1:706:B:ASN:HB3 | 13 | 0.11 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD11 | 4 | 0.11 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD12 | 4 | 0.11 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD13 | 4 | 0.11 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD11 | 10 | 0.11 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD12 | 10 | 0.11 |
| (2,43) | 1:693:B:ILE:H | 1:693:A:ILE:HD13 | 10 | 0.11 |
| (2,37) | 1:692:B:LEU:HD21 | 1:694:A:GLY:H | 2 | 0.11 |
| (2,37) | 1:692:B:LEU:HD22 | 1:694:A:GLY:H | 2 | 0.11 |
| (2,37) | 1:692:B:LEU:HD23 | 1:694:A:GLY:H | 2 | 0.11 |
| (2,37) | 1:692:B:LEU:HD21 | 1:694:A:GLY:H | 5 | 0.11 |
| (2,37) | 1:692:B:LEU:HD22 | 1:694:A:GLY:H | 5 | 0.11 |
| (2,37) | 1:692:B:LEU:HD23 | 1:694:A:GLY:H | 5 | 0.11 |
| (1,248) | 1:837:B:SER:O | 1:841:B:ARG:N | 5 | 0.11 |
| (1,247) | 1:837:B:SER:O | 1:841:B:ARG:H | 6 | 0.11 |
| (1,247) | 1:837:B:SER:O | 1:841:B:ARG:H | 8 | 0.11 |
| (1,245) | 1:836:B:ALA:O | 1:840:B:ILE:H | 3 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (1,242) | 1:834:B:GLN:O | 1:838:B:ARG:N | 8 | 0.11 |
| (1,241) | 1:834:B:GLN:O | 1:838:B:ARG:H | 4 | 0.11 |
| (1,239) | 1:833:B:VAL:O | 1:837:B:SER:H | 13 | 0.11 |
| (1,234) | 1:830:B:ILE:O | 1:834:B:GLN:N | 9 | 0.11 |
| (1,233) | 1:830:B:ILE:O | 1:834:B:GLN:H | 7 | 0.11 |
| (1,231) | 1:829:B:VAL:O | 1:833:B:VAL:H | 8 | 0.11 |
| (1,227) | 1:827:B:ASP:O | 1:831:B:GLU:H | 15 | 0.11 |
| (1,219) | 1:813:B:SER:O | 1:817:B:ALA:H | 4 | 0.11 |
| (1,219) | 1:813:B:SER:O | 1:817:B:ALA:H | 15 | 0.11 |
| (1,203) | 1:805:B:GLN:O | 1:809:B:ASN:H | 7 | 0.11 |
| (1,199) | 1:803:B:TRP:O | 1:807:B:LEU:H | 13 | 0.11 |
| (1,198) | 1:802:B:TYR:O | 1:806:B:GLU:N | 9 | 0.11 |
| (1,197) | 1:802:B:TYR:O | 1:806:B:GLU:H | 6 | 0.11 |
| (1,192) | 1:799:B:LEU:O | 1:803:B:TRP:N | 12 | 0.11 |
| (1,184) | 1:795:B:TYR:O | 1:799:B:LEU:N | 12 | 0.11 |
| (1,182) | 1:794:B:LYS:O | 1:798:B:ASN:N | 1 | 0.11 |
| (1,182) | 1:794:B:LYS:O | 1:798:B:ASN:N | 7 | 0.11 |
| (1,181) | 1:794:B:LYS:O | 1:798:B:ASN:H | 14 | 0.11 |
| (1,177) | 1:792:B:ALA:O | 1:796:B:TRP:H | 7 | 0.11 |
| (1,176) | 1:791:B:GLU:O | 1:795:B:TYR:N | 7 | 0.11 |
| (1,162) | 1:837:B:SER:O | 1:841:B:ARG:N | 5 | 0.11 |
| (1,161) | 1:837:B:SER:O | 1:841:B:ARG:H | 6 | 0.11 |
| (1,161) | 1:837:B:SER:O | 1:841:B:ARG:H | 8 | 0.11 |
| (1,159) | 1:836:B:ALA:O | 1:840:B:ILE:H | 3 | 0.11 |
| (1,156) | 1:834:B:GLN:O | 1:838:B:ARG:N | 8 | 0.11 |
| (1,155) | 1:834:B:GLN:O | 1:838:B:ARG:H | 4 | 0.11 |
| (1,153) | 1:833:B:VAL:O | 1:837:B:SER:H | 13 | 0.11 |
| (1,148) | 1:830:B:ILE:O | 1:834:B:GLN:N | 9 | 0.11 |
| (1,147) | 1:830:B:ILE:O | 1:834:B:GLN:H | 7 | 0.11 |
| (1,145) | 1:829:B:VAL:O | 1:833:B:VAL:H | 8 | 0.11 |
| (1,141) | 1:827:B:ASP:O | 1:831:B:GLU:H | 15 | 0.11 |
| (1,133) | 1:813:B:SER:O | 1:817:B:ALA:H | 4 | 0.11 |
| (1,133) | 1:813:B:SER:O | 1:817:B:ALA:H | 15 | 0.11 |
| (1,117) | 1:805:B:GLN:O | 1:809:B:ASN:H | 7 | 0.11 |
| (1,113) | 1:803:B:TRP:O | 1:807:B:LEU:H | 13 | 0.11 |
| (1,112) | 1:802:B:TYR:O | 1:806:B:GLU:N | 9 | 0.11 |
| (1,111) | 1:802:B:TYR:O | 1:806:B:GLU:H | 6 | 0.11 |
| (1,106) | 1:799:B:LEU:O | 1:803:B:TRP:N | 12 | 0.11 |
| (1,98) | 1:795:B:TYR:O | 1:799:B:LEU:N | 12 | 0.11 |
| (1,96) | 1:794:B:LYS:O | 1:798:B:ASN:N | 1 | 0.11 |
| (1,96) | 1:794:B:LYS:O | 1:798:B:ASN:N | 7 | 0.11 |
| (1,95) | 1:794:B:LYS:O | 1:798:B:ASN:H | 14 | 0.11 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (1,91) | 1:792:B:ALA:O | 1:796:B:TRP:H | 7 | 0.11 |
| (1,90) | 1:791:B:GLU:O | 1:795:B:TYR:N | 7 | 0.11 |
| (1,76) | 1:837:B:SER:O | 1:841:B:ARG:N | 5 | 0.11 |
| (1,75) | 1:837:B:SER:O | 1:841:B:ARG:H | 6 | 0.11 |
| (1,75) | 1:837:B:SER:O | 1:841:B:ARG:H | 8 | 0.11 |
| (1,73) | 1:836:B:ALA:O | 1:840:B:ILE:H | 3 | 0.11 |
| (1,70) | 1:834:B:GLN:O | 1:838:B:ARG:N | 8 | 0.11 |
| (1,69) | 1:834:B:GLN:O | 1:838:B:ARG:H | 4 | 0.11 |
| (1,67) | 1:833:B:VAL:O | 1:837:B:SER:H | 13 | 0.11 |
| (1,62) | 1:830:B:ILE:O | 1:834:B:GLN:N | 9 | 0.11 |
| (1,61) | 1:830:B:ILE:O | 1:834:B:GLN:H | 7 | 0.11 |
| (1,59) | 1:829:B:VAL:O | 1:833:B:VAL:H | 8 | 0.11 |
| (1,55) | 1:827:B:ASP:O | 1:831:B:GLU:H | 15 | 0.11 |
| (1,47) | 1:813:B:SER:O | 1:817:B:ALA:H | 4 | 0.11 |
| (1,47) | 1:813:B:SER:O | 1:817:B:ALA:H | 15 | 0.11 |
| (1,31) | 1:805:B:GLN:O | 1:809:B:ASN:H | 7 | 0.11 |
| (1,27) | 1:803:B:TRP:O | 1:807:B:LEU:H | 13 | 0.11 |
| (1,26) | 1:802:B:TYR:O | 1:806:B:GLU:N | 9 | 0.11 |
| (1,25) | 1:802:B:TYR:O | 1:806:B:GLU:H | 6 | 0.11 |
| (1,20) | 1:799:B:LEU:O | 1:803:B:TRP:N | 12 | 0.11 |
| (1,12) | 1:795:B:TYR:O | 1:799:B:LEU:N | 12 | 0.11 |
| (1,10) | 1:794:B:LYS:O | 1:798:B:ASN:N | 1 | 0.11 |
| (1,10) | 1:794:B:LYS:O | 1:798:B:ASN:N | 7 | 0.11 |
| (1,9) | 1:794:B:LYS:O | 1:798:B:ASN:H | 14 | 0.11 |
| (1,5) | 1:792:B:ALA:O | 1:796:B:TRP:H | 7 | 0.11 |
| (1,4) | 1:791:B:GLU:O | 1:795:B:TYR:N | 7 | 0.11 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD11 | 2 | 0.1 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD12 | 2 | 0.1 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD13 | 2 | 0.1 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD21 | 2 | 0.1 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD22 | 2 | 0.1 |
| (2,1469) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD23 | 2 | 0.1 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 4 | 0.1 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 4 | 0.1 |
| (2,1466) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 4 | 0.1 |
| (2,1465) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 12 | 0.1 |
| (2,1458) | 1:786:A:GLY:H | 1:782:A:VAL:HA | 15 | 0.1 |
| (2,1443) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 14 | 0.1 |
| (2,1426) | 1:781:A:ILE:H | 1:780:A:ARG:HA | 4 | 0.1 |
| (2,1414) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 13 | 0.1 |
| (2,1414) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 13 | 0.1 |
| (2,1414) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 13 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1410) | 1:778:A:VAL:H | 1:777:A:ILE:HA | 2 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 9 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 9 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 9 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 9 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 9 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 9 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 11 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 11 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 11 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 11 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 11 | 0.1 |
| (2,1401) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 11 | 0.1 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 8 | 0.1 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 8 | 0.1 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 12 | 0.1 |
| (2,1381) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 12 | 0.1 |
| (2,1365) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 15 | 0.1 |
| (2,1365) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 15 | 0.1 |
| (2,1365) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 15 | 0.1 |
| (2,1315) | 1:746:A:ILE:H | 1:743:A:ASP:HB2 | 3 | 0.1 |
| (2,1315) | 1:746:A:ILE:H | 1:743:A:ASP:HB3 | 3 | 0.1 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 12 | 0.1 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 12 | 0.1 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 12 | 0.1 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 12 | 0.1 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 12 | 0.1 |
| (2,1272) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 12 | 0.1 |
| (2,1246) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 6 | 0.1 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG21 | 1 | 0.1 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG22 | 1 | 0.1 |
| (2,1245) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG23 | 1 | 0.1 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG21 | 1 | 0.1 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG22 | 1 | 0.1 |
| (2,1245) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG23 | 1 | 0.1 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG21 | 1 | 0.1 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG22 | 1 | 0.1 |
| (2,1245) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG23 | 1 | 0.1 |
| (2,1224) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 9 | 0.1 |
| (2,1224) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 13 | 0.1 |
| (2,1206) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 12 | 0.1 |
| (2,1206) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 12 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|---|---|---|---|---|
| (2,1206) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 12 | 0.1 |
| (2,1201) | 1:696:A:ARG:H | 1:696:A:ARG:HE | 6 | 0.1 |
| (2,1201) | 1:696:A:ARG:H | 1:696:A:ARG:HE | 15 | 0.1 |
| (2,1174) | 1:688:A:ILE:HG21 | 1:692:A:LEU:HG | 3 | 0.1 |
| (2,1174) | 1:688:A:ILE:HG22 | 1:692:A:LEU:HG | 3 | 0.1 |
| (2,1174) | 1:688:A:ILE:HG23 | 1:692:A:LEU:HG | 3 | 0.1 |
| (2,1172) | 1:687:A:ILE:HG21 | 1:691:A:SER:HG | 2 | 0.1 |
| (2,1172) | 1:687:A:ILE:HG22 | 1:691:A:SER:HG | 2 | 0.1 |
| (2,1172) | 1:687:A:ILE:HG23 | 1:691:A:SER:HG | 2 | 0.1 |
| (2,1171) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD11 | 6 | 0.1 |
| (2,1171) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD12 | 6 | 0.1 |
| (2,1171) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD13 | 6 | 0.1 |
| (2,1171) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD11 | 6 | 0.1 |
| (2,1171) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD12 | 6 | 0.1 |
| (2,1171) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD13 | 6 | 0.1 |
| (2,1171) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD11 | 6 | 0.1 |
| (2,1171) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD12 | 6 | 0.1 |
| (2,1171) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD13 | 6 | 0.1 |
| (2,1167) | 1:686:A:ILE:HD11 | 1:683:A:ARG:HA | 4 | 0.1 |
| (2,1167) | 1:686:A:ILE:HD12 | 1:683:A:ARG:HA | 4 | 0.1 |
| (2,1167) | 1:686:A:ILE:HD13 | 1:683:A:ARG:HA | 4 | 0.1 |
| (2,1167) | 1:686:A:ILE:HD11 | 1:683:A:ARG:HA | 14 | 0.1 |
| (2,1167) | 1:686:A:ILE:HD12 | 1:683:A:ARG:HA | 14 | 0.1 |
| (2,1167) | 1:686:A:ILE:HD13 | 1:683:A:ARG:HA | 14 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 1 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 1 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 1 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 1 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 1 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,1064) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 1 | 0.1 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD11 | 2 | 0.1 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD12 | 2 | 0.1 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD13 | 2 | 0.1 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD21 | 2 | 0.1 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD22 | 2 | 0.1 |
| (2,1044) | 1:797:A:TRP:HE1 | 1:793:A:LEU:HD23 | 2 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD11 | 4 | 0.1 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD12 | 4 | 0.1 |
| (2,1041) | 1:796:A:TRP:HE1 | 1:799:A:LEU:HD13 | 4 | 0.1 |
| (2,1040) | 1:796:A:TRP:HE1 | 1:796:A:TRP:H | 12 | 0.1 |
| (2,1033) | 1:786:A:GLY:H | 1:782:A:VAL:HA | 15 | 0.1 |
| (2,1018) | 1:784:A:LEU:H | 1:781:A:ILE:HA | 14 | 0.1 |
| (2,1001) | 1:781:A:ILE:H | 1:780:A:ARG:HA | 4 | 0.1 |
| (2,989) | 1:778:A:VAL:HG21 | 1:775:A:LEU:HA | 13 | 0.1 |
| (2,989) | 1:778:A:VAL:HG22 | 1:775:A:LEU:HA | 13 | 0.1 |
| (2,989) | 1:778:A:VAL:HG23 | 1:775:A:LEU:HA | 13 | 0.1 |
| (2,985) | 1:778:A:VAL:H | 1:777:A:ILE:HA | 2 | 0.1 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 9 | 0.1 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 9 | 0.1 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 9 | 0.1 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 9 | 0.1 |
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 9 | 0.1 |
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 9 | 0.1 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB2 | 11 | 0.1 |
| (2,976) | 1:776:A:LEU:HD11 | 1:773:A:ASP:HB3 | 11 | 0.1 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB2 | 11 | 0.1 |
| (2,976) | 1:776:A:LEU:HD12 | 1:773:A:ASP:HB3 | 11 | 0.1 |
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB2 | 11 | 0.1 |
| (2,976) | 1:776:A:LEU:HD13 | 1:773:A:ASP:HB3 | 11 | 0.1 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 8 | 0.1 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 8 | 0.1 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD2 | 12 | 0.1 |
| (2,956) | 1:773:A:ASP:H | 1:770:A:ARG:HD3 | 12 | 0.1 |
| (2,940) | 1:760:A:LEU:HD11 | 1:757:A:TRP:HA | 15 | 0.1 |
| (2,940) | 1:760:A:LEU:HD12 | 1:757:A:TRP:HA | 15 | 0.1 |
| (2,940) | 1:760:A:LEU:HD13 | 1:757:A:TRP:HA | 15 | 0.1 |
| (2,890) | 1:746:A:ILE:H | 1:743:A:ASP:HB2 | 3 | 0.1 |
| (2,890) | 1:746:A:ILE:H | 1:743:A:ASP:HB3 | 3 | 0.1 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD11 | 12 | 0.1 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD12 | 12 | 0.1 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD13 | 12 | 0.1 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD21 | 12 | 0.1 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD22 | 12 | 0.1 |
| (2,847) | 1:707:A:ARG:HE | 1:704:A:LEU:HD23 | 12 | 0.1 |
| (2,821) | 1:705:A:VAL:H | 1:702:A:LEU:HA | 6 | 0.1 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG21 | 1 | 0.1 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG22 | 1 | 0.1 |
| (2,820) | 1:704:A:LEU:HD11 | 1:708:A:VAL:HG23 | 1 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG21 | 1 | 0.1 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG22 | 1 | 0.1 |
| (2,820) | 1:704:A:LEU:HD12 | 1:708:A:VAL:HG23 | 1 | 0.1 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG21 | 1 | 0.1 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG22 | 1 | 0.1 |
| (2,820) | 1:704:A:LEU:HD13 | 1:708:A:VAL:HG23 | 1 | 0.1 |
| (2,799) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 9 | 0.1 |
| (2,799) | 1:702:A:LEU:H | 1:699:A:PHE:HA | 13 | 0.1 |
| (2,781) | 1:698:A:VAL:HG11 | 1:695:A:LEU:HG | 12 | 0.1 |
| (2,781) | 1:698:A:VAL:HG12 | 1:695:A:LEU:HG | 12 | 0.1 |
| (2,781) | 1:698:A:VAL:HG13 | 1:695:A:LEU:HG | 12 | 0.1 |
| (2,776) | 1:696:A:ARG:H | 1:696:A:ARG:HE | 6 | 0.1 |
| (2,776) | 1:696:A:ARG:H | 1:696:A:ARG:HE | 15 | 0.1 |
| (2,749) | 1:688:A:ILE:HG21 | 1:692:A:LEU:HG | 3 | 0.1 |
| (2,749) | 1:688:A:ILE:HG22 | 1:692:A:LEU:HG | 3 | 0.1 |
| (2,749) | 1:688:A:ILE:HG23 | 1:692:A:LEU:HG | 3 | 0.1 |
| (2,747) | 1:687:A:ILE:HG21 | 1:691:A:SER:HG | 2 | 0.1 |
| (2,747) | 1:687:A:ILE:HG22 | 1:691:A:SER:HG | 2 | 0.1 |
| (2,747) | 1:687:A:ILE:HG23 | 1:691:A:SER:HG | 2 | 0.1 |
| (2,746) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD11 | 6 | 0.1 |
| (2,746) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD12 | 6 | 0.1 |
| (2,746) | 1:687:A:ILE:HD11 | 1:684:A:ILE:HD13 | 6 | 0.1 |
| (2,746) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD11 | 6 | 0.1 |
| (2,746) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD12 | 6 | 0.1 |
| (2,746) | 1:687:A:ILE:HD12 | 1:684:A:ILE:HD13 | 6 | 0.1 |
| (2,746) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD11 | 6 | 0.1 |
| (2,746) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD12 | 6 | 0.1 |
| (2,746) | 1:687:A:ILE:HD13 | 1:684:A:ILE:HD13 | 6 | 0.1 |
| (2,742) | 1:686:A:ILE:HD11 | 1:683:A:ARG:HA | 4 | 0.1 |
| (2,742) | 1:686:A:ILE:HD12 | 1:683:A:ARG:HA | 4 | 0.1 |
| (2,742) | 1:686:A:ILE:HD13 | 1:683:A:ARG:HA | 4 | 0.1 |
| (2,742) | 1:686:A:ILE:HD11 | 1:683:A:ARG:HA | 14 | 0.1 |
| (2,742) | 1:686:A:ILE:HD12 | 1:683:A:ARG:HA | 14 | 0.1 |
| (2,742) | 1:686:A:ILE:HD13 | 1:683:A:ARG:HA | 14 | 0.1 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,639) | 1:661:A:LEU:HD11 | 1:662:A:GLU:HG3 | 1 | 0.1 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,639) | 1:661:A:LEU:HD12 | 1:662:A:GLU:HG3 | 1 | 0.1 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,639) | 1:661:A:LEU:HD13 | 1:662:A:GLU:HG3 | 1 | 0.1 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,639) | 1:661:A:LEU:HD21 | 1:662:A:GLU:HG3 | 1 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|------|--------|--------|----------|---------------|
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,639) | 1:661:A:LEU:HD22 | 1:662:A:GLU:HG3 | 1 | 0.1 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG2 | 1 | 0.1 |
| (2,639) | 1:661:A:LEU:HD23 | 1:662:A:GLU:HG3 | 1 | 0.1 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD11 | 14 | 0.1 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD12 | 14 | 0.1 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD13 | 14 | 0.1 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD21 | 14 | 0.1 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD22 | 14 | 0.1 |
| (2,624) | 1:803:B:TRP:HE1 | 1:800:B:LEU:HD23 | 14 | 0.1 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 11 | 0.1 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 11 | 0.1 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 11 | 0.1 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD11 | 13 | 0.1 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD12 | 13 | 0.1 |
| (2,616) | 1:796:B:TRP:HE1 | 1:799:B:LEU:HD13 | 13 | 0.1 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD11 | 11 | 0.1 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD12 | 11 | 0.1 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD13 | 11 | 0.1 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD21 | 11 | 0.1 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD22 | 11 | 0.1 |
| (2,613) | 1:790:B:TRP:HE1 | 1:793:B:LEU:HD23 | 11 | 0.1 |
| (2,608) | 1:786:B:GLY:H | 1:782:B:VAL:HA | 15 | 0.1 |
| (2,581) | 1:782:B:VAL:H | 1:779:B:THR:HA | 12 | 0.1 |
| (2,576) | 1:781:B:ILE:H | 1:780:B:ARG:HA | 13 | 0.1 |
| (2,560) | 1:778:B:VAL:H | 1:777:B:ILE:HA | 9 | 0.1 |
| (2,541) | 1:775:B:LEU:H | 1:774:B:LEU:HA | 1 | 0.1 |
| (2,516) | 1:760:B:LEU:HD21 | 1:768:B:TYR:HE1 | 8 | 0.1 |
| (2,516) | 1:760:B:LEU:HD21 | 1:768:B:TYR:HE2 | 8 | 0.1 |
| (2,516) | 1:760:B:LEU:HD22 | 1:768:B:TYR:HE1 | 8 | 0.1 |
| (2,516) | 1:760:B:LEU:HD22 | 1:768:B:TYR:HE2 | 8 | 0.1 |
| (2,516) | 1:760:B:LEU:HD23 | 1:768:B:TYR:HE1 | 8 | 0.1 |
| (2,516) | 1:760:B:LEU:HD23 | 1:768:B:TYR:HE2 | 8 | 0.1 |
| (2,470) | 1:746:B:ILE:HD11 | 1:743:B:ASP:HA | 14 | 0.1 |
| (2,470) | 1:746:B:ILE:HD12 | 1:743:B:ASP:HA | 14 | 0.1 |
| (2,470) | 1:746:B:ILE:HD13 | 1:743:B:ASP:HA | 14 | 0.1 |
| (2,464) | 1:746:B:ILE:H | 1:743:B:ASP:HA | 13 | 0.1 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG11 | 1 | 0.1 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG12 | 1 | 0.1 |
| (2,437) | 1:709:B:ARG:HE | 1:705:B:VAL:HG13 | 1 | 0.1 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD11 | 9 | 0.1 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD12 | 9 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD13 | 9 | 0.1 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD21 | 9 | 0.1 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD22 | 9 | 0.1 |
| (2,422) | 1:707:B:ARG:HE | 1:704:B:LEU:HD23 | 9 | 0.1 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB2 | 15 | 0.1 |
| (2,406) | 1:705:B:VAL:HG21 | 1:706:B:ASN:HB3 | 15 | 0.1 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB2 | 15 | 0.1 |
| (2,406) | 1:705:B:VAL:HG22 | 1:706:B:ASN:HB3 | 15 | 0.1 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB2 | 15 | 0.1 |
| (2,406) | 1:705:B:VAL:HG23 | 1:706:B:ASN:HB3 | 15 | 0.1 |
| (2,367) | 1:700:B:ALA:HB1 | 1:697:B:ILE:HA | 4 | 0.1 |
| (2,367) | 1:700:B:ALA:HB2 | 1:697:B:ILE:HA | 4 | 0.1 |
| (2,367) | 1:700:B:ALA:HB3 | 1:697:B:ILE:HA | 4 | 0.1 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 7 | 0.1 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 7 | 0.1 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 7 | 0.1 |
| (2,356) | 1:698:B:VAL:HG11 | 1:695:B:LEU:HG | 15 | 0.1 |
| (2,356) | 1:698:B:VAL:HG12 | 1:695:B:LEU:HG | 15 | 0.1 |
| (2,356) | 1:698:B:VAL:HG13 | 1:695:B:LEU:HG | 15 | 0.1 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD2 | 5 | 0.1 |
| (2,344) | 1:695:B:LEU:HD21 | 1:696:B:ARG:HD3 | 5 | 0.1 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD2 | 5 | 0.1 |
| (2,344) | 1:695:B:LEU:HD22 | 1:696:B:ARG:HD3 | 5 | 0.1 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD2 | 5 | 0.1 |
| (2,344) | 1:695:B:LEU:HD23 | 1:696:B:ARG:HD3 | 5 | 0.1 |
| (2,318) | 1:686:B:ILE:HD11 | 1:685:B:PHE:H | 15 | 0.1 |
| (2,318) | 1:686:B:ILE:HD12 | 1:685:B:PHE:H | 15 | 0.1 |
| (2,318) | 1:686:B:ILE:HD13 | 1:685:B:PHE:H | 15 | 0.1 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD1 | 5 | 0.1 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD2 | 5 | 0.1 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD1 | 5 | 0.1 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD2 | 5 | 0.1 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD1 | 5 | 0.1 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD2 | 5 | 0.1 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD1 | 15 | 0.1 |
| (2,305) | 1:684:B:ILE:HG21 | 1:685:B:PHE:HD2 | 15 | 0.1 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD1 | 15 | 0.1 |
| (2,305) | 1:684:B:ILE:HG22 | 1:685:B:PHE:HD2 | 15 | 0.1 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD1 | 15 | 0.1 |
| (2,305) | 1:684:B:ILE:HG23 | 1:685:B:PHE:HD2 | 15 | 0.1 |
| (2,295) | 1:682:B:ILE:HG21 | 1:685:B:PHE:HD1 | 8 | 0.1 |
| (2,295) | 1:682:B:ILE:HG21 | 1:685:B:PHE:HD2 | 8 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,295) | 1:682:B:ILE:HG22 | 1:685:B:PHE:HD1 | 8 | 0.1 |
| (2,295) | 1:682:B:ILE:HG22 | 1:685:B:PHE:HD2 | 8 | 0.1 |
| (2,295) | 1:682:B:ILE:HG23 | 1:685:B:PHE:HD1 | 8 | 0.1 |
| (2,295) | 1:682:B:ILE:HG23 | 1:685:B:PHE:HD2 | 8 | 0.1 |
| (2,286) | 1:678:B:TRP:HE1 | 1:682:B:ILE:H | 10 | 0.1 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD11 | 5 | 0.1 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD12 | 5 | 0.1 |
| (2,284) | 1:678:B:TRP:HE1 | 1:675:B:ILE:HD13 | 5 | 0.1 |
| (2,263) | 1:670:B:TRP:HE1 | 1:667:B:ALA:HB1 | 13 | 0.1 |
| (2,263) | 1:670:B:TRP:HE1 | 1:667:B:ALA:HB2 | 13 | 0.1 |
| (2,263) | 1:670:B:TRP:HE1 | 1:667:B:ALA:HB3 | 13 | 0.1 |
| (2,258) | 1:669:B:LEU:HD11 | 1:672:B:TRP:HZ3 | 13 | 0.1 |
| (2,258) | 1:669:B:LEU:HD12 | 1:672:B:TRP:HZ3 | 13 | 0.1 |
| (2,258) | 1:669:B:LEU:HD13 | 1:672:B:TRP:HZ3 | 13 | 0.1 |
| (2,258) | 1:669:B:LEU:HD21 | 1:672:B:TRP:HZ3 | 13 | 0.1 |
| (2,258) | 1:669:B:LEU:HD22 | 1:672:B:TRP:HZ3 | 13 | 0.1 |
| (2,258) | 1:669:B:LEU:HD23 | 1:672:B:TRP:HZ3 | 13 | 0.1 |
| (2,245) | 1:667:B:ALA:H | 1:666:B:TRP:HD1 | 5 | 0.1 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG2 | 3 | 0.1 |
| (2,190) | 1:816:B:ASN:H | 1:831:B:GLU:HG3 | 3 | 0.1 |
| (2,183) | 1:806:A:GLU:H | 1:772:B:ARG:HE | 8 | 0.1 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB2 | 8 | 0.1 |
| (2,174) | 1:803:A:TRP:HE1 | 1:764:B:SER:HB3 | 8 | 0.1 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 3 | 0.1 |
| (2,171) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 3 | 0.1 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB2 | 3 | 0.1 |
| (2,170) | 1:797:A:TRP:HE1 | 1:848:A:ARG:HB3 | 3 | 0.1 |
| (2,114) | 1:781:A:ILE:HD11 | 1:743:B:ASP:HA | 13 | 0.1 |
| (2,114) | 1:781:A:ILE:HD12 | 1:743:B:ASP:HA | 13 | 0.1 |
| (2,114) | 1:781:A:ILE:HD13 | 1:743:B:ASP:HA | 13 | 0.1 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG21 | 9 | 0.1 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG22 | 9 | 0.1 |
| (2,90) | 1:713:B:SER:H | 1:708:A:VAL:HG23 | 9 | 0.1 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD11 | 10 | 0.1 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD12 | 10 | 0.1 |
| (2,52) | 1:696:B:ARG:H | 1:693:A:ILE:HD13 | 10 | 0.1 |
| (2,37) | 1:692:B:LEU:HD21 | 1:694:A:GLY:H | 15 | 0.1 |
| (2,37) | 1:692:B:LEU:HD22 | 1:694:A:GLY:H | 15 | 0.1 |
| (2,37) | 1:692:B:LEU:HD23 | 1:694:A:GLY:H | 15 | 0.1 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG21 | 12 | 0.1 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG22 | 12 | 0.1 |
| (2,33) | 1:687:A:ILE:HG21 | 1:689:B:VAL:HG23 | 12 | 0.1 |

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| Key | Atom-1 | Atom-2 | Model ID | Violation (Å) |
|-----|--------|--------|----------|---------------|
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG21 | 12 | 0.1 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG22 | 12 | 0.1 |
| (2,33) | 1:687:A:ILE:HG22 | 1:689:B:VAL:HG23 | 12 | 0.1 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG21 | 12 | 0.1 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG22 | 12 | 0.1 |
| (2,33) | 1:687:A:ILE:HG23 | 1:689:B:VAL:HG23 | 12 | 0.1 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB2 | 5 | 0.1 |
| (2,9) | 1:664:A:ASP:H | 1:660:B:LEU:HB3 | 5 | 0.1 |
| (1,241) | 1:834:B:GLN:O | 1:838:B:ARG:H | 1 | 0.1 |
| (1,233) | 1:830:B:ILE:O | 1:834:B:GLN:H | 10 | 0.1 |
| (1,219) | 1:813:B:SER:O | 1:817:B:ALA:H | 8 | 0.1 |
| (1,199) | 1:803:B:TRP:O | 1:807:B:LEU:H | 7 | 0.1 |
| (1,182) | 1:794:B:LYS:O | 1:798:B:ASN:N | 3 | 0.1 |
| (1,177) | 1:792:B:ALA:O | 1:796:B:TRP:H | 14 | 0.1 |
| (1,176) | 1:791:B:GLU:O | 1:795:B:TYR:N | 3 | 0.1 |
| (1,155) | 1:834:B:GLN:O | 1:838:B:ARG:H | 1 | 0.1 |
| (1,147) | 1:830:B:ILE:O | 1:834:B:GLN:H | 10 | 0.1 |
| (1,133) | 1:813:B:SER:O | 1:817:B:ALA:H | 8 | 0.1 |
| (1,113) | 1:803:B:TRP:O | 1:807:B:LEU:H | 7 | 0.1 |
| (1,96) | 1:794:B:LYS:O | 1:798:B:ASN:N | 3 | 0.1 |
| (1,91) | 1:792:B:ALA:O | 1:796:B:TRP:H | 14 | 0.1 |
| (1,90) | 1:791:B:GLU:O | 1:795:B:TYR:N | 3 | 0.1 |
| (1,69) | 1:834:B:GLN:O | 1:838:B:ARG:H | 1 | 0.1 |
| (1,61) | 1:830:B:ILE:O | 1:834:B:GLN:H | 10 | 0.1 |
| (1,47) | 1:813:B:SER:O | 1:817:B:ALA:H | 8 | 0.1 |
| (1,27) | 1:803:B:TRP:O | 1:807:B:LEU:H | 7 | 0.1 |
| (1,10) | 1:794:B:LYS:O | 1:798:B:ASN:N | 3 | 0.1 |
| (1,5) | 1:792:B:ALA:O | 1:796:B:TRP:H | 14 | 0.1 |
| (1,4) | 1:791:B:GLU:O | 1:795:B:TYR:N | 3 | 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 | 149 | 50.0 | 75 | 50.3 | 25.2 | 5 | 3.4 | 1.7 |
| PHI | 149 | 50.0 | 69 | 46.3 | 23.2 | 4 | 2.7 | 1.3 |
| Total | 298 | 100.0 | 144 | 48.3 | 48.3 | 9 | 3.0 | 3.0 |

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

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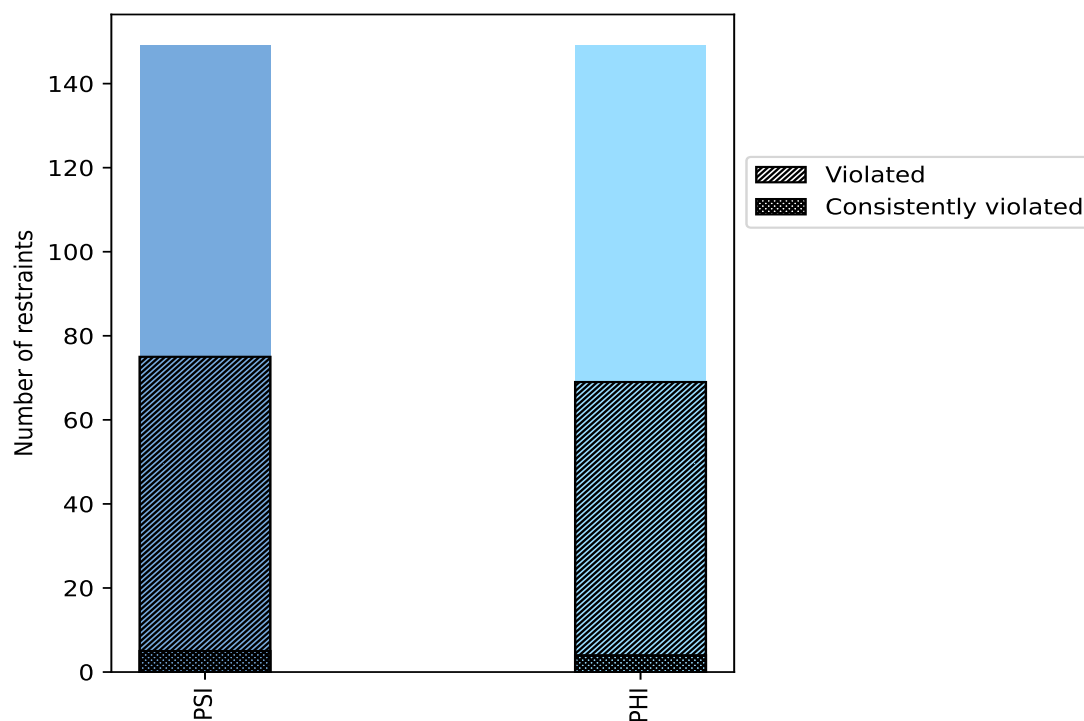


Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

## 10.2 Dihedral-angle violation statistics for each model ⓘ

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 | 17 | 21 | 38 | 2.03 | 4.62 | 0.92 | 1.76 |
| 2 | 30 | 28 | 58 | 1.98 | 3.88 | 0.83 | 1.81 |
| 3 | 26 | 25 | 51 | 2.53 | 5.3 | 1.34 | 2.04 |
| 4 | 25 | 21 | 46 | 2.04 | 6.43 | 1.19 | 1.63 |
| 5 | 29 | 28 | 57 | 2.0 | 4.74 | 0.87 | 1.83 |
| 6 | 19 | 18 | 37 | 1.93 | 4.07 | 0.78 | 1.63 |
| 7 | 16 | 17 | 33 | 2.16 | 4.77 | 1.01 | 1.93 |
| 8 | 19 | 17 | 36 | 2.15 | 7.23 | 1.49 | 1.48 |
| 9 | 20 | 24 | 44 | 2.14 | 4.93 | 1.08 | 1.8 |
| 10 | 20 | 25 | 45 | 1.8 | 5.42 | 0.88 | 1.54 |
| 11 | 30 | 25 | 55 | 2.37 | 7.09 | 1.51 | 1.84 |
| 12 | 22 | 22 | 44 | 2.26 | 5.32 | 1.26 | 1.69 |
| 13 | 25 | 19 | 44 | 1.99 | 4.64 | 0.86 | 1.77 |
| 14 | 19 | 20 | 39 | 2.18 | 5.41 | 1.24 | 1.68 |
| 15 | 23 | 20 | 43 | 1.97 | 4.97 | 1.08 | 1.46 |

### 10.2.1 Bar graph : Dihedral violation statistics for each model ⓘ
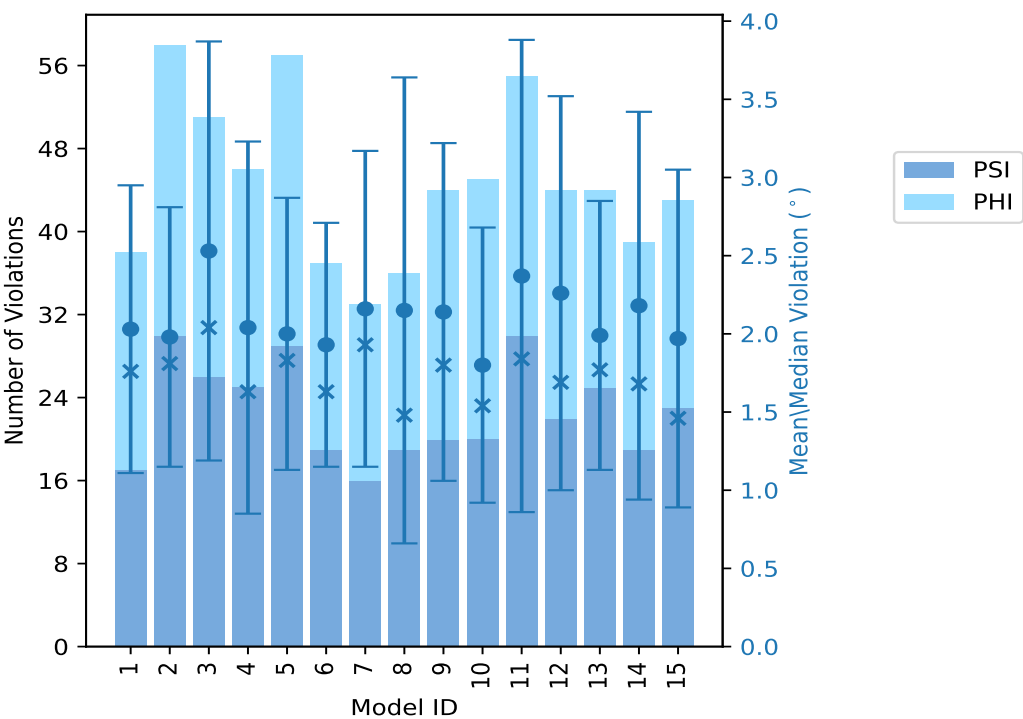
The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

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

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

| Number of violated restraints | | | Fraction of the ensemble | |
|---|---|---|---|---|
| PSI | PHI | Total | Count[1] | % |
| 23 | 20 | 43 | 1 | 6.7 |
| 9 | 12 | 21 | 2 | 13.3 |
| 11 | 6 | 17 | 3 | 20.0 |
| 4 | 5 | 9 | 4 | 26.7 |
| 9 | 4 | 13 | 5 | 33.3 |
| 2 | 2 | 4 | 6 | 40.0 |
| 1 | 3 | 4 | 7 | 46.7 |
| 1 | 2 | 3 | 8 | 53.3 |
| 4 | 2 | 6 | 9 | 60.0 |
| 3 | 4 | 7 | 10 | 66.7 |
| 1 | 2 | 3 | 11 | 73.3 |
| 1 | 1 | 2 | 12 | 80.0 |
| 0 | 1 | 1 | 13 | 86.7 |
| 1 | 1 | 2 | 14 | 93.3 |
| 5 | 4 | 9 | 15 | 100.0 |

[1] Number of models with violations

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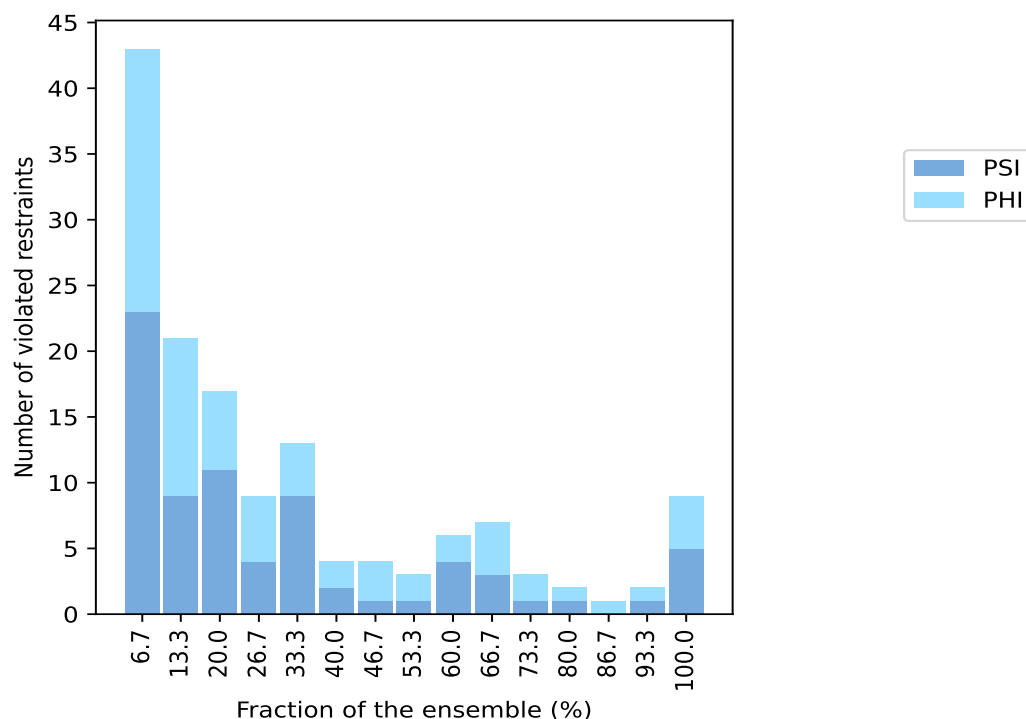


## 10.4　Most violated dihedral-angle restraints in the ensemble ⓘ

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

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models in the ensemble
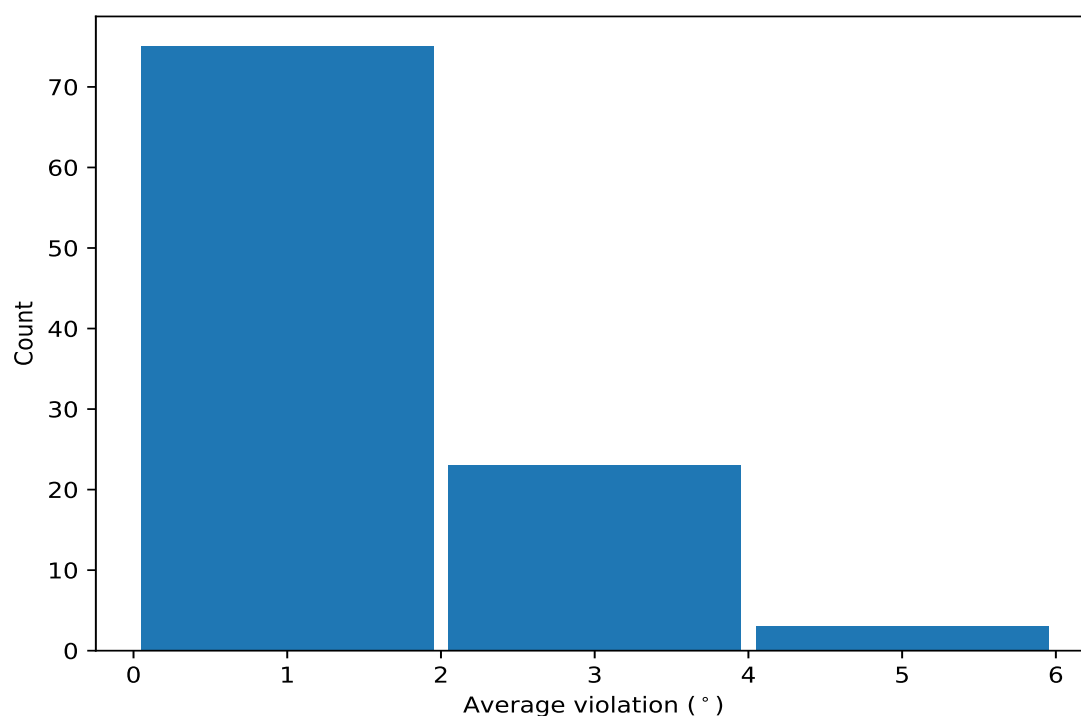
## 10.4.2  Table: Most violated dihedral-angle restraints ⓘ

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

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models[1] | Mean | SD[2] | Median |
|---|---|---|---|---|---|---|---|---|
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 15 | 4.51 | 1.33 | 4.64 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 15 | 4.41 | 1.43 | 4.69 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 15 | 4.09 | 0.66 | 4.07 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 15 | 3.88 | 0.8 | 3.83 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 15 | 3.46 | 1.28 | 3.29 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 15 | 3.27 | 1.31 | 3.13 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 15 | 3.04 | 0.68 | 2.97 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 15 | 2.57 | 0.62 | 2.75 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 15 | 2.19 | 0.82 | 2.1 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 14 | 2.3 | 0.88 | 2.14 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 14 | 1.97 | 0.45 | 2.02 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 13 | 1.82 | 0.46 | 1.95 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 12 | 2.17 | 0.58 | 2.13 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 12 | 2.03 | 0.86 | 1.9 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 11 | 2.52 | 1.6 | 1.87 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 11 | 1.92 | 0.56 | 1.88 |
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 11 | 1.47 | 0.34 | 1.44 |
| (1,19) | 1:675:B:ILE:C | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 10 | 2.39 | 0.73 | 2.41 |
| (1,18) | 1:675:B:ILE:N | 1:675:B:ILE:CA | 1:675:B:ILE:C | 1:676:B:THR:N | 10 | 2.19 | 0.66 | 2.23 |
| (1,99) | 1:740:B:ARG:C | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 10 | 1.88 | 0.82 | 1.7 |
| (1,251) | 1:826:B:THR:C | 1:827:B:ASP:N | 1:827:B:ASP:CA | 1:827:B:ASP:C | 10 | 1.85 | 0.73 | 1.76 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models[1] | Mean | SD[2] | Median |
|-----|--------|--------|--------|--------|-----------|------|------|--------|
| (1,69) | 1:702:B:LEU:C | 1:703:B:SER:N | 1:703:B:SER:CA | 1:703:B:SER:C | 10 | 1.52 | 0.32 | 1.46 |
| (1,68) | 1:702:B:LEU:N | 1:702:B:LEU:CA | 1:702:B:LEU:C | 1:703:B:SER:N | 10 | 1.45 | 0.35 | 1.38 |
| (1,86) | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 1:714:B:PRO:N | 10 | 1.41 | 0.2 | 1.38 |
| (1,142) | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 1:763:B:LEU:N | 9 | 2.39 | 0.67 | 2.51 |
| (1,143) | 1:762:B:SER:C | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 9 | 2.18 | 0.57 | 2.27 |
| (1,154) | 1:773:B:ASP:N | 1:773:B:ASP:CA | 1:773:B:ASP:C | 1:774:B:LEU:N | 9 | 1.84 | 0.65 | 1.65 |
| (1,162) | 1:777:B:ILE:N | 1:777:B:ILE:CA | 1:777:B:ILE:C | 1:778:B:VAL:N | 9 | 1.83 | 0.62 | 1.63 |
| (1,46) | 1:691:B:SER:N | 1:691:B:SER:CA | 1:691:B:SER:C | 1:692:B:LEU:N | 9 | 1.56 | 0.4 | 1.49 |
| (1,83) | 1:709:B:ARG:C | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 9 | 1.49 | 0.5 | 1.33 |
| (1,120) | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 1:752:B:SER:N | 8 | 1.94 | 0.5 | 1.77 |
| (1,197) | 1:794:B:LYS:C | 1:795:B:TYR:N | 1:795:B:TYR:CA | 1:795:B:TYR:C | 8 | 1.59 | 0.53 | 1.44 |
| (1,47) | 1:691:B:SER:C | 1:692:B:LEU:N | 1:692:B:LEU:CA | 1:692:B:LEU:C | 8 | 1.28 | 0.23 | 1.2 |
| (1,133) | 1:757:B:TRP:C | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 7 | 3.3 | 1.98 | 2.28 |
| (1,81) | 1:708:B:VAL:C | 1:709:B:ARG:N | 1:709:B:ARG:CA | 1:709:B:ARG:C | 7 | 2.02 | 0.68 | 1.78 |
| (1,196) | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 1:795:B:TYR:N | 7 | 2.01 | 0.66 | 2.06 |
| (1,61) | 1:698:B:VAL:C | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 7 | 1.86 | 0.62 | 1.68 |
| (1,134) | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 1:759:B:ASP:N | 6 | 2.45 | 1.27 | 2.22 |
| (1,135) | 1:758:B:ASP:C | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 6 | 2.43 | 1.1 | 2.3 |
| (1,155) | 1:773:B:ASP:C | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 6 | 1.73 | 0.71 | 1.47 |
| (1,250) | 1:826:B:THR:N | 1:826:B:THR:CA | 1:826:B:THR:C | 1:827:B:ASP:N | 6 | 1.39 | 0.31 | 1.4 |
| (1,136) | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 1:760:B:LEU:N | 5 | 2.64 | 1.1 | 1.96 |
| (1,80) | 1:708:B:VAL:N | 1:708:B:VAL:CA | 1:708:B:VAL:C | 1:709:B:ARG:N | 5 | 1.99 | 0.64 | 1.79 |
| (1,137) | 1:759:B:ASP:C | 1:760:B:LEU:N | 1:760:B:LEU:CA | 1:760:B:LEU:C | 5 | 1.92 | 0.73 | 1.67 |
| (1,121) | 1:751:B:GLY:C | 1:752:B:SER:N | 1:752:B:SER:CA | 1:752:B:SER:C | 5 | 1.81 | 0.35 | 1.76 |
| (1,144) | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 1:764:B:SER:N | 5 | 1.8 | 0.59 | 1.61 |
| (1,20) | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 1:677:B:ASN:N | 5 | 1.75 | 0.78 | 1.26 |
| (1,272) | 1:837:B:SER:N | 1:837:B:SER:CA | 1:837:B:SER:C | 1:838:B:ARG:N | 5 | 1.72 | 0.55 | 1.63 |
| (1,156) | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 1:775:B:LEU:N | 5 | 1.68 | 0.67 | 1.42 |
| (1,158) | 1:775:B:LEU:N | 1:775:B:LEU:CA | 1:775:B:LEU:C | 1:776:B:LEU:N | 5 | 1.56 | 0.49 | 1.19 |
| (1,185) | 1:788:B:ARG:C | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 5 | 1.49 | 0.43 | 1.37 |
| (1,274) | 1:838:B:ARG:N | 1:838:B:ARG:CA | 1:838:B:ARG:C | 1:839:B:ALA:N | 5 | 1.39 | 0.24 | 1.32 |
| (1,179) | 1:785:B:LEU:C | 1:786:B:GLY:N | 1:786:B:GLY:CA | 1:786:B:GLY:C | 5 | 1.21 | 0.17 | 1.13 |
| (1,186) | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 1:790:B:TRP:N | 5 | 1.17 | 0.07 | 1.17 |
| (1,270) | 1:836:B:ALA:N | 1:836:B:ALA:CA | 1:836:B:ALA:C | 1:837:B:SER:N | 4 | 1.95 | 0.46 | 2.08 |
| (1,271) | 1:836:B:ALA:C | 1:837:B:SER:N | 1:837:B:SER:CA | 1:837:B:SER:C | 4 | 1.76 | 0.37 | 1.8 |
| (1,60) | 1:698:B:VAL:N | 1:698:B:VAL:CA | 1:698:B:VAL:C | 1:699:B:PHE:N | 4 | 1.66 | 0.68 | 1.52 |
| (1,163) | 1:777:B:ILE:C | 1:778:B:VAL:N | 1:778:B:VAL:CA | 1:778:B:VAL:C | 4 | 1.64 | 0.37 | 1.58 |
| (1,194) | 1:793:B:LEU:N | 1:793:B:LEU:CA | 1:793:B:LEU:C | 1:794:B:LYS:N | 4 | 1.51 | 0.5 | 1.3 |
| (1,151) | 1:771:B:LEU:C | 1:772:B:ARG:N | 1:772:B:ARG:CA | 1:772:B:ARG:C | 4 | 1.5 | 0.33 | 1.54 |
| (1,64) | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 1:701:B:VAL:N | 4 | 1.36 | 0.07 | 1.38 |
| (1,191) | 1:791:B:GLU:C | 1:792:B:ALA:N | 1:792:B:ALA:CA | 1:792:B:ALA:C | 4 | 1.28 | 0.44 | 1.03 |
| (1,273) | 1:837:B:SER:C | 1:838:B:ARG:N | 1:838:B:ARG:CA | 1:838:B:ARG:C | 4 | 1.26 | 0.12 | 1.26 |
| (1,88) | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 1:716:B:SER:N | 3 | 2.03 | 0.57 | 1.92 |
| (1,210) | 1:801:B:GLN:N | 1:801:B:GLN:CA | 1:801:B:GLN:C | 1:802:B:TYR:N | 3 | 2.01 | 0.77 | 1.56 |
| (1,85) | 1:712:B:TYR:C | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 3 | 1.97 | 0.68 | 2.11 |
| (1,131) | 1:756:B:ILE:C | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 3 | 1.63 | 0.34 | 1.65 |
| (1,184) | 1:788:B:ARG:N | 1:788:B:ARG:CA | 1:788:B:ARG:C | 1:789:B:GLY:N | 3 | 1.57 | 0.27 | 1.52 |
| (1,84) | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 1:711:B:GLY:N | 3 | 1.53 | 0.27 | 1.37 |
| (1,172) | 1:782:B:VAL:N | 1:782:B:VAL:CA | 1:782:B:VAL:C | 1:783:B:GLU:N | 3 | 1.5 | 0.25 | 1.5 |
| (1,202) | 1:797:B:TRP:N | 1:797:B:TRP:CA | 1:797:B:TRP:C | 1:798:B:ASN:N | 3 | 1.43 | 0.11 | 1.42 |
| (1,123) | 1:752:B:SER:C | 1:753:B:LEU:N | 1:753:B:LEU:CA | 1:753:B:LEU:C | 3 | 1.37 | 0.16 | 1.46 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Models[1] | Mean | SD[2] | Median |
|------|--------|--------|--------|--------|-----------|------|------|--------|
| (1,166) | 1:779:B:THR:N | 1:779:B:THR:CA | 1:779:B:THR:C | 1:780:B:ARG:N | 3 | 1.36 | 0.05 | 1.38 |
| (1,206) | 1:799:B:LEU:N | 1:799:B:LEU:CA | 1:799:B:LEU:C | 1:800:B:LEU:N | 3 | 1.36 | 0.13 | 1.34 |
| (1,54) | 1:695:B:LEU:N | 1:695:B:LEU:CA | 1:695:B:LEU:C | 1:696:B:ARG:N | 3 | 1.33 | 0.27 | 1.23 |
| (1,248) | 1:820:B:ILE:N | 1:820:B:ILE:CA | 1:820:B:ILE:C | 1:821:B:ALA:N | 3 | 1.28 | 0.31 | 1.07 |
| (1,192) | 1:792:B:ALA:N | 1:792:B:ALA:CA | 1:792:B:ALA:C | 1:793:B:LEU:N | 3 | 1.22 | 0.11 | 1.23 |
| (1,225) | 1:808:B:LYS:C | 1:809:B:ASN:N | 1:809:B:ASN:CA | 1:809:B:ASN:C | 3 | 1.16 | 0.1 | 1.16 |
| (1,187) | 1:789:B:GLY:C | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 3 | 1.15 | 0.1 | 1.11 |
| (1,141) | 1:761:B:ARG:C | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 3 | 1.12 | 0.07 | 1.15 |
| (1,21) | 1:676:B:THR:C | 1:677:B:ASN:N | 1:677:B:ASN:CA | 1:677:B:ASN:C | 2 | 2.31 | 0.39 | 2.31 |
| (1,247) | 1:819:B:ALA:C | 1:820:B:ILE:N | 1:820:B:ILE:CA | 1:820:B:ILE:C | 2 | 1.94 | 0.44 | 1.94 |
| (1,3) | 1:664:B:ASP:C | 1:665:B:LYS:N | 1:665:B:LYS:CA | 1:665:B:LYS:C | 2 | 1.86 | 0.56 | 1.86 |
| (1,129) | 1:755:B:LEU:C | 1:756:B:ILE:N | 1:756:B:ILE:CA | 1:756:B:ILE:C | 2 | 1.86 | 0.07 | 1.86 |
| (1,34) | 1:685:B:PHE:N | 1:685:B:PHE:CA | 1:685:B:PHE:C | 1:686:B:ILE:N | 2 | 1.77 | 0.18 | 1.77 |
| (1,128) | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 1:756:B:ILE:N | 2 | 1.55 | 0.27 | 1.55 |
| (1,113) | 1:747:B:ARG:C | 1:748:B:LEU:N | 1:748:B:LEU:CA | 1:748:B:LEU:C | 2 | 1.54 | 0.05 | 1.54 |
| (1,170) | 1:781:B:ILE:N | 1:781:B:ILE:CA | 1:781:B:ILE:C | 1:782:B:VAL:N | 2 | 1.47 | 0.23 | 1.47 |
| (1,2) | 1:664:B:ASP:N | 1:664:B:ASP:CA | 1:664:B:ASP:C | 1:665:B:LYS:N | 2 | 1.44 | 0.26 | 1.44 |
| (1,242) | 1:817:B:ALA:N | 1:817:B:ALA:CA | 1:817:B:ALA:C | 1:818:B:THR:N | 2 | 1.41 | 0.11 | 1.41 |
| (1,168) | 1:780:B:ARG:N | 1:780:B:ARG:CA | 1:780:B:ARG:C | 1:781:B:ILE:N | 2 | 1.34 | 0.09 | 1.34 |
| (1,35) | 1:685:B:PHE:C | 1:686:B:ILE:N | 1:686:B:ILE:CA | 1:686:B:ILE:C | 2 | 1.3 | 0.06 | 1.3 |
| (1,111) | 1:746:B:ILE:C | 1:747:B:ARG:N | 1:747:B:ARG:CA | 1:747:B:ARG:C | 2 | 1.25 | 0.2 | 1.25 |
| (1,211) | 1:801:B:GLN:C | 1:802:B:TYR:N | 1:802:B:TYR:CA | 1:802:B:TYR:C | 2 | 1.24 | 0.09 | 1.24 |
| (1,55) | 1:695:B:LEU:C | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 2 | 1.21 | 0.09 | 1.21 |
| (1,22) | 1:677:B:ASN:N | 1:677:B:ASN:CA | 1:677:B:ASN:C | 1:678:B:TRP:N | 2 | 1.11 | 0.02 | 1.11 |
| (1,175) | 1:783:B:GLU:C | 1:784:B:LEU:N | 1:784:B:LEU:CA | 1:784:B:LEU:C | 2 | 1.11 | 0.1 | 1.11 |
| (1,203) | 1:797:B:TRP:C | 1:798:B:ASN:N | 1:798:B:ASN:CA | 1:798:B:ASN:C | 2 | 1.1 | 0.09 | 1.1 |
| (1,174) | 1:783:B:GLU:N | 1:783:B:GLU:CA | 1:783:B:GLU:C | 1:784:B:LEU:N | 2 | 1.09 | 0.06 | 1.09 |
| (1,165) | 1:778:B:VAL:C | 1:779:B:THR:N | 1:779:B:THR:CA | 1:779:B:THR:C | 2 | 1.04 | 0.02 | 1.04 |
| (1,238) | 1:815:B:LEU:N | 1:815:B:LEU:CA | 1:815:B:LEU:C | 1:816:B:ASN:N | 2 | 1.02 | 0.02 | 1.02 |

[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.
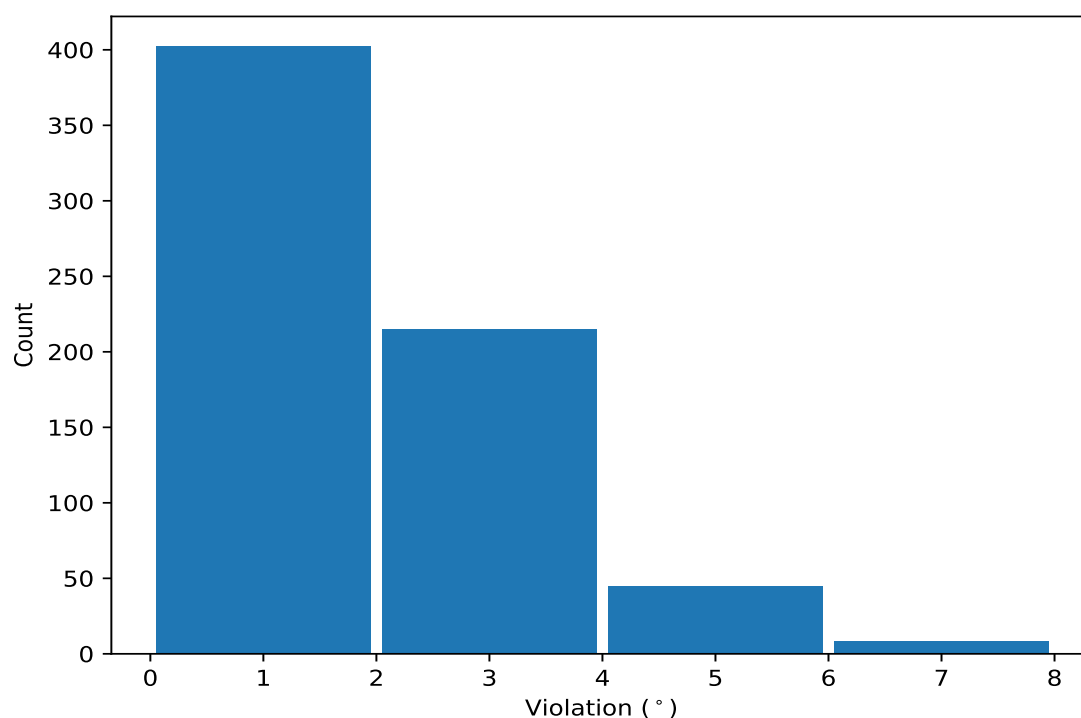
## 10.5.2 Table: All violated dihedral-angle restraints ⓘ

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 (°) |
|-----|--------|--------|--------|--------|----------|---------------|
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 8 | 7.23 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 8 | 7.2 |
| (1,133) | 1:757:B:TRP:C | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 11 | 7.09 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 11 | 6.96 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 11 | 6.75 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 11 | 6.66 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 4 | 6.43 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 4 | 6.1 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 10 | 5.42 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 14 | 5.41 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 14 | 5.36 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 12 | 5.32 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 3 | 5.3 |
| (1,133) | 1:757:B:TRP:C | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 3 | 5.05 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 14 | 4.99 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 15 | 4.97 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 12 | 4.96 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 12 | 4.94 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 15 | 4.93 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 9 | 4.93 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 12 | 4.88 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 9 | 4.77 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 7 | 4.77 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 5 | 4.74 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 15 | 4.73 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 12 | 4.72 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 3 | 4.7 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 3 | 4.69 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 7 | 4.68 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 12 | 4.68 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 3 | 4.67 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 13 | 4.64 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 3 | 4.64 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 1 | 4.62 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 8 | 4.61 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 4 | 4.61 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 10 | 4.57 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 3 | 4.47 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 14 | 4.47 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 13 | 4.4 |
| (1,134) | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 1:759:B:ASP:N | 3 | 4.4 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 3 | 4.4 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 3 | 4.35 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 11 | 4.32 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 14 | 4.32 |
| (1,136) | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 1:760:B:LEU:N | 5 | 4.27 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 1 | 4.21 |
| (1,135) | 1:758:B:ASP:C | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 3 | 4.16 |
| (1,99) | 1:740:B:ARG:C | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 3 | 4.16 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 7 | 4.1 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 12 | 4.09 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 4 | 4.08 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 6 | 4.07 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 1 | 3.93 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 9 | 3.92 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 4 | 3.91 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 9 | 3.89 |
| (1,19) | 1:675:B:ILE:C | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 2 | 3.88 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 11 | 3.85 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 1 | 3.84 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 2 | 3.83 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 5 | 3.81 |
| (1,133) | 1:757:B:TRP:C | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 5 | 3.79 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 13 | 3.77 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 11 | 3.74 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 14 | 3.72 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 9 | 3.69 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 9 | 3.68 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 1 | 3.63 |
| (1,136) | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 1:760:B:LEU:N | 3 | 3.63 |
| (1,134) | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 1:759:B:ASP:N | 11 | 3.63 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 10 | 3.6 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|-----|--------|--------|--------|--------|----------|---------------|
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 11 | 3.59 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 9 | 3.59 |
| (1,154) | 1:773:B:ASP:N | 1:773:B:ASP:CA | 1:773:B:ASP:C | 1:774:B:LEU:N | 3 | 3.56 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 2 | 3.56 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 7 | 3.54 |
| (1,251) | 1:826:B:THR:C | 1:827:B:ASP:N | 1:827:B:ASP:CA | 1:827:B:ASP:C | 15 | 3.53 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 13 | 3.46 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 14 | 3.45 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 15 | 3.45 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 8 | 3.45 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 3 | 3.42 |
| (1,212) | 1:802:B:TYR:N | 1:802:B:TYR:CA | 1:802:B:TYR:C | 1:803:B:TRP:N | 9 | 3.41 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 6 | 3.41 |
| (1,196) | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 1:795:B:TYR:N | 12 | 3.4 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 6 | 3.4 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 5 | 3.37 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 6 | 3.34 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 3 | 3.33 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 2 | 3.3 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 8 | 3.29 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 11 | 3.29 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 8 | 3.26 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 2 | 3.26 |
| (1,18) | 1:675:B:ILE:N | 1:675:B:ILE:CA | 1:675:B:ILE:C | 1:676:B:THR:N | 13 | 3.23 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 15 | 3.22 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 6 | 3.22 |
| (1,155) | 1:773:B:ASP:C | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 3 | 3.21 |
| (1,142) | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 1:763:B:LEU:N | 8 | 3.21 |
| (1,142) | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 1:763:B:LEU:N | 12 | 3.18 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 7 | 3.17 |
| (1,135) | 1:758:B:ASP:C | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 5 | 3.15 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 11 | 3.15 |
| (1,81) | 1:708:B:VAL:C | 1:709:B:ARG:N | 1:709:B:ARG:CA | 1:709:B:ARG:C | 2 | 3.15 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 11 | 3.14 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 14 | 3.13 |
| (1,142) | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 1:763:B:LEU:N | 15 | 3.11 |
| (1,135) | 1:758:B:ASP:C | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 11 | 3.11 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 3 | 3.11 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 14 | 3.11 |
| (1,210) | 1:801:B:GLN:N | 1:801:B:GLN:CA | 1:801:B:GLN:C | 1:802:B:TYR:N | 9 | 3.09 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 5 | 3.09 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 15 | 3.08 |
| (1,143) | 1:762:B:SER:C | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 12 | 3.06 |
| (1,61) | 1:698:B:VAL:C | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 11 | 3.03 |
| (1,18) | 1:675:B:ILE:N | 1:675:B:ILE:CA | 1:675:B:ILE:C | 1:676:B:THR:N | 2 | 3.02 |
| (1,19) | 1:675:B:ILE:C | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 13 | 3.01 |
| (1,137) | 1:759:B:ASP:C | 1:760:B:LEU:N | 1:760:B:LEU:CA | 1:760:B:LEU:C | 5 | 3.0 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 2 | 3.0 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 2 | 2.99 |
| (1,20) | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 1:677:B:ASN:N | 2 | 2.98 |
| (1,156) | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 1:775:B:LEU:N | 2 | 2.97 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 7 | 2.97 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 4 | 2.97 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 5 | 2.94 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 7 | 2.94 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 7 | 2.92 |
| (1,188) | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 1:791:B:GLU:N | 15 | 2.9 |
| (1,144) | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 1:764:B:SER:N | 2 | 2.9 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 2 | 2.88 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 10 | 2.86 |
| (1,162) | 1:777:B:ILE:N | 1:777:B:ILE:CA | 1:777:B:ILE:C | 1:778:B:VAL:N | 14 | 2.85 |
| (1,134) | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 1:759:B:ASP:N | 5 | 2.85 |
| (1,80) | 1:708:B:VAL:N | 1:708:B:VAL:CA | 1:708:B:VAL:C | 1:709:B:ARG:N | 12 | 2.85 |
| (1,162) | 1:777:B:ILE:N | 1:777:B:ILE:CA | 1:777:B:ILE:C | 1:778:B:VAL:N | 2 | 2.84 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 1 | 2.84 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 9 | 2.82 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 6 | 2.81 |
| (1,120) | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 1:752:B:SER:N | 5 | 2.79 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 15 | 2.78 |
| (1,88) | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 1:716:B:SER:N | 9 | 2.78 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 1 | 2.75 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 2 | 2.75 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 13 | 2.75 |
| (1,58) | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 1:698:B:VAL:N | 3 | 2.73 |
| (1,251) | 1:826:B:THR:C | 1:827:B:ASP:N | 1:827:B:ASP:CA | 1:827:B:ASP:C | 6 | 2.72 |
| (1,85) | 1:712:B:TYR:C | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 5 | 2.72 |
| (1,19) | 1:675:B:ILE:C | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 8 | 2.72 |
| (1,83) | 1:709:B:ARG:C | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 3 | 2.71 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 4 | 2.71 |
| (1,272) | 1:837:B:SER:N | 1:837:B:SER:CA | 1:837:B:SER:C | 1:838:B:ARG:N | 5 | 2.7 |
| (1,21) | 1:676:B:THR:C | 1:677:B:ASN:N | 1:677:B:ASN:CA | 1:677:B:ASN:C | 2 | 2.7 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 13 | 2.69 |
| (1,19) | 1:675:B:ILE:C | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 9 | 2.69 |
| (1,143) | 1:762:B:SER:C | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 15 | 2.68 |
| (1,143) | 1:762:B:SER:C | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 7 | 2.67 |
| (1,81) | 1:708:B:VAL:C | 1:709:B:ARG:N | 1:709:B:ARG:CA | 1:709:B:ARG:C | 12 | 2.67 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 1 | 2.67 |
| (1,18) | 1:675:B:ILE:N | 1:675:B:ILE:CA | 1:675:B:ILE:C | 1:676:B:THR:N | 9 | 2.67 |
| (1,142) | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 1:763:B:LEU:N | 11 | 2.66 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 15 | 2.64 |
| (1,197) | 1:794:B:LYS:C | 1:795:B:TYR:N | 1:795:B:TYR:CA | 1:795:B:TYR:C | 12 | 2.63 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 9 | 2.62 |
| (1,60) | 1:698:B:VAL:N | 1:698:B:VAL:CA | 1:698:B:VAL:C | 1:699:B:PHE:N | 11 | 2.62 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 5 | 2.6 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 11 | 2.6 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 7 | 2.58 |
| (1,120) | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 1:752:B:SER:N | 6 | 2.58 |
| (1,80) | 1:708:B:VAL:N | 1:708:B:VAL:CA | 1:708:B:VAL:C | 1:709:B:ARG:N | 2 | 2.56 |
| (1,18) | 1:675:B:ILE:N | 1:675:B:ILE:CA | 1:675:B:ILE:C | 1:676:B:THR:N | 8 | 2.56 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 6 | 2.54 |
| (1,137) | 1:759:B:ASP:C | 1:760:B:LEU:N | 1:760:B:LEU:CA | 1:760:B:LEU:C | 3 | 2.53 |
| (1,19) | 1:675:B:ILE:C | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 11 | 2.52 |

*Continued on next page...*

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 9 | 2.51 |
| (1,142) | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 1:763:B:LEU:N | 7 | 2.51 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 12 | 2.47 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 9 | 2.46 |
| (1,143) | 1:762:B:SER:C | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 11 | 2.45 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 10 | 2.45 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 1 | 2.44 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 4 | 2.43 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 5 | 2.43 |
| (1,3) | 1:664:B:ASP:C | 1:665:B:LYS:N | 1:665:B:LYS:CA | 1:665:B:LYS:C | 9 | 2.42 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 8 | 2.41 |
| (1,46) | 1:691:B:SER:N | 1:691:B:SER:CA | 1:691:B:SER:C | 1:692:B:LEU:N | 1 | 2.41 |
| (1,270) | 1:836:B:ALA:N | 1:836:B:ALA:CA | 1:836:B:ALA:C | 1:837:B:SER:N | 4 | 2.4 |
| (1,148) | 1:770:B:ARG:N | 1:770:B:ARG:CA | 1:770:B:ARG:C | 1:771:B:LEU:N | 2 | 2.4 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 9 | 2.4 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 13 | 2.4 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 7 | 2.4 |
| (1,81) | 1:708:B:VAL:C | 1:709:B:ARG:N | 1:709:B:ARG:CA | 1:709:B:ARG:C | 13 | 2.4 |
| (1,247) | 1:819:B:ALA:C | 1:820:B:ILE:N | 1:820:B:ILE:CA | 1:820:B:ILE:C | 13 | 2.38 |
| (1,61) | 1:698:B:VAL:C | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 3 | 2.38 |
| (1,18) | 1:675:B:ILE:N | 1:675:B:ILE:CA | 1:675:B:ILE:C | 1:676:B:THR:N | 10 | 2.38 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 2 | 2.37 |
| (1,194) | 1:793:B:LEU:N | 1:793:B:LEU:CA | 1:793:B:LEU:C | 1:794:B:LYS:N | 5 | 2.36 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 10 | 2.36 |
| (1,20) | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 1:677:B:ASN:N | 8 | 2.35 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 11 | 2.34 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 4 | 2.34 |
| (1,270) | 1:836:B:ALA:N | 1:836:B:ALA:CA | 1:836:B:ALA:C | 1:837:B:SER:N | 5 | 2.33 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 2 | 2.33 |
| (1,197) | 1:794:B:LYS:C | 1:795:B:TYR:N | 1:795:B:TYR:CA | 1:795:B:TYR:C | 14 | 2.3 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 7 | 2.3 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 12 | 2.3 |
| (1,158) | 1:775:B:LEU:N | 1:775:B:LEU:CA | 1:775:B:LEU:C | 1:776:B:LEU:N | 15 | 2.3 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 13 | 2.29 |
| (1,19) | 1:675:B:ILE:C | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 10 | 2.29 |
| (1,196) | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 1:795:B:TYR:N | 13 | 2.28 |
| (1,185) | 1:788:B:ARG:C | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 11 | 2.28 |
| (1,133) | 1:757:B:TRP:C | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 4 | 2.28 |
| (1,143) | 1:762:B:SER:C | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 8 | 2.27 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 13 | 2.25 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 2 | 2.25 |
| (1,121) | 1:751:B:GLY:C | 1:752:B:SER:N | 1:752:B:SER:CA | 1:752:B:SER:C | 5 | 2.25 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 14 | 2.24 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 6 | 2.24 |
| (1,120) | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 1:752:B:SER:N | 9 | 2.24 |
| (1,133) | 1:757:B:TRP:C | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 2 | 2.23 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 13 | 2.22 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 10 | 2.21 |
| (1,62) | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1:700:B:ALA:N | 5 | 2.21 |
| (1,28) | 1:682:B:ILE:N | 1:682:B:ILE:CA | 1:682:B:ILE:C | 1:683:B:ARG:N | 10 | 2.21 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 6 | 2.2 |

*Continued on next page...*

*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 8 | 2.19 |
| (1,163) | 1:777:B:ILE:C | 1:778:B:VAL:N | 1:778:B:VAL:CA | 1:778:B:VAL:C | 2 | 2.19 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 12 | 2.17 |
| (1,69) | 1:702:B:LEU:C | 1:703:B:SER:N | 1:703:B:SER:CA | 1:703:B:SER:C | 3 | 2.17 |
| (1,68) | 1:702:B:LEU:N | 1:702:B:LEU:CA | 1:702:B:LEU:C | 1:703:B:SER:N | 3 | 2.17 |
| (1,271) | 1:836:B:ALA:C | 1:837:B:SER:N | 1:837:B:SER:CA | 1:837:B:SER:C | 4 | 2.16 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 12 | 2.16 |
| (1,149) | 1:770:B:ARG:C | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 7 | 2.16 |
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 9 | 2.15 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 4 | 2.15 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 5 | 2.14 |
| (1,121) | 1:751:B:GLY:C | 1:752:B:SER:N | 1:752:B:SER:CA | 1:752:B:SER:C | 9 | 2.14 |
| (1,59) | 1:697:B:ILE:C | 1:698:B:VAL:N | 1:698:B:VAL:CA | 1:698:B:VAL:C | 3 | 2.14 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 1 | 2.13 |
| (1,162) | 1:777:B:ILE:N | 1:777:B:ILE:CA | 1:777:B:ILE:C | 1:778:B:VAL:N | 5 | 2.13 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 13 | 2.12 |
| (1,99) | 1:740:B:ARG:C | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 7 | 2.11 |
| (1,85) | 1:712:B:TYR:C | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 4 | 2.11 |
| (1,196) | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 1:795:B:TYR:N | 15 | 2.1 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 1 | 2.1 |
| (1,157) | 1:774:B:LEU:C | 1:775:B:LEU:N | 1:775:B:LEU:CA | 1:775:B:LEU:C | 2 | 2.09 |
| (1,271) | 1:836:B:ALA:C | 1:837:B:SER:N | 1:837:B:SER:CA | 1:837:B:SER:C | 5 | 2.08 |
| (1,18) | 1:675:B:ILE:N | 1:675:B:ILE:CA | 1:675:B:ILE:C | 1:676:B:THR:N | 11 | 2.08 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 1 | 2.07 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 4 | 2.07 |
| (1,46) | 1:691:B:SER:N | 1:691:B:SER:CA | 1:691:B:SER:C | 1:692:B:LEU:N | 13 | 2.07 |
| (1,196) | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 1:795:B:TYR:N | 5 | 2.06 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 2 | 2.06 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 6 | 2.05 |
| (1,191) | 1:791:B:GLU:C | 1:792:B:ALA:N | 1:792:B:ALA:CA | 1:792:B:ALA:C | 11 | 2.04 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 3 | 2.04 |
| (1,142) | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 1:763:B:LEU:N | 10 | 2.04 |
| (1,99) | 1:740:B:ARG:C | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 5 | 2.04 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 12 | 2.04 |
| (1,131) | 1:756:B:ILE:C | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 2 | 2.03 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 8 | 2.03 |
| (1,143) | 1:762:B:SER:C | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 10 | 2.01 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 5 | 2.01 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 1 | 2.01 |
| (1,158) | 1:775:B:LEU:N | 1:775:B:LEU:CA | 1:775:B:LEU:C | 1:776:B:LEU:N | 1 | 2.0 |
| (1,154) | 1:773:B:ASP:N | 1:773:B:ASP:CA | 1:773:B:ASP:C | 1:774:B:LEU:N | 10 | 2.0 |
| (1,60) | 1:698:B:VAL:N | 1:698:B:VAL:CA | 1:698:B:VAL:C | 1:699:B:PHE:N | 3 | 2.0 |
| (1,19) | 1:675:B:ILE:C | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 6 | 2.0 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 13 | 1.99 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 4 | 1.98 |
| (1,19) | 1:675:B:ILE:C | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 4 | 1.98 |
| (1,99) | 1:740:B:ARG:C | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 6 | 1.97 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 5 | 1.97 |
| (1,169) | 1:780:B:ARG:C | 1:781:B:ILE:N | 1:781:B:ILE:CA | 1:781:B:ILE:C | 15 | 1.96 |
| (1,136) | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 1:760:B:LEU:N | 11 | 1.96 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 11 | 1.96 |

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*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|-----|--------|--------|--------|--------|----------|---------------|
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 7 | 1.95 |
| (1,61) | 1:698:B:VAL:C | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 14 | 1.95 |
| (1,34) | 1:685:B:PHE:N | 1:685:B:PHE:CA | 1:685:B:PHE:C | 1:686:B:ILE:N | 10 | 1.95 |
| (1,251) | 1:826:B:THR:C | 1:827:B:ASP:N | 1:827:B:ASP:CA | 1:827:B:ASP:C | 4 | 1.93 |
| (1,129) | 1:755:B:LEU:C | 1:756:B:ILE:N | 1:756:B:ILE:CA | 1:756:B:ILE:C | 7 | 1.93 |
| (1,63) | 1:699:B:PHE:C | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 5 | 1.93 |
| (1,29) | 1:682:B:ILE:C | 1:683:B:ARG:N | 1:683:B:ARG:CA | 1:683:B:ARG:C | 10 | 1.93 |
| (1,184) | 1:788:B:ARG:N | 1:788:B:ARG:CA | 1:788:B:ARG:C | 1:789:B:GLY:N | 11 | 1.92 |
| (1,151) | 1:771:B:LEU:C | 1:772:B:ARG:N | 1:772:B:ARG:CA | 1:772:B:ARG:C | 14 | 1.92 |
| (1,88) | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 1:716:B:SER:N | 10 | 1.92 |
| (1,21) | 1:676:B:THR:C | 1:677:B:ASN:N | 1:677:B:ASN:CA | 1:677:B:ASN:C | 8 | 1.92 |
| (1,162) | 1:777:B:ILE:N | 1:777:B:ILE:CA | 1:777:B:ILE:C | 1:778:B:VAL:N | 11 | 1.91 |
| (1,84) | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 1:711:B:GLY:N | 4 | 1.91 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 6 | 1.9 |
| (1,251) | 1:826:B:THR:C | 1:827:B:ASP:N | 1:827:B:ASP:CA | 1:827:B:ASP:C | 13 | 1.89 |
| (1,154) | 1:773:B:ASP:N | 1:773:B:ASP:CA | 1:773:B:ASP:C | 1:774:B:LEU:N | 2 | 1.89 |
| (1,83) | 1:709:B:ARG:C | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 7 | 1.89 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 6 | 1.88 |
| (1,155) | 1:773:B:ASP:C | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 10 | 1.87 |
| (1,142) | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 1:763:B:LEU:N | 14 | 1.87 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 8 | 1.87 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 9 | 1.86 |
| (1,274) | 1:838:B:ARG:N | 1:838:B:ARG:CA | 1:838:B:ARG:C | 1:839:B:ALA:N | 2 | 1.85 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 13 | 1.85 |
| (1,120) | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 1:752:B:SER:N | 11 | 1.84 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 1 | 1.84 |
| (1,69) | 1:702:B:LEU:C | 1:703:B:SER:N | 1:703:B:SER:CA | 1:703:B:SER:C | 11 | 1.84 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 5 | 1.84 |
| (1,270) | 1:836:B:ALA:N | 1:836:B:ALA:CA | 1:836:B:ALA:C | 1:837:B:SER:N | 2 | 1.83 |
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 1 | 1.83 |
| (1,68) | 1:702:B:LEU:N | 1:702:B:LEU:CA | 1:702:B:LEU:C | 1:703:B:SER:N | 5 | 1.83 |
| (1,144) | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 1:764:B:SER:N | 13 | 1.82 |
| (1,143) | 1:762:B:SER:C | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 14 | 1.82 |
| (1,128) | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 1:756:B:ILE:N | 11 | 1.82 |
| (1,251) | 1:826:B:THR:C | 1:827:B:ASP:N | 1:827:B:ASP:CA | 1:827:B:ASP:C | 1 | 1.81 |
| (1,172) | 1:782:B:VAL:N | 1:782:B:VAL:CA | 1:782:B:VAL:C | 1:783:B:GLU:N | 13 | 1.81 |
| (1,99) | 1:740:B:ARG:C | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 8 | 1.8 |
| (1,250) | 1:826:B:THR:N | 1:826:B:THR:CA | 1:826:B:THR:C | 1:827:B:ASP:N | 6 | 1.79 |
| (1,129) | 1:755:B:LEU:C | 1:756:B:ILE:N | 1:756:B:ILE:CA | 1:756:B:ILE:C | 2 | 1.79 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 5 | 1.79 |
| (1,80) | 1:708:B:VAL:N | 1:708:B:VAL:CA | 1:708:B:VAL:C | 1:709:B:ARG:N | 3 | 1.79 |
| (1,19) | 1:675:B:ILE:C | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 12 | 1.79 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 7 | 1.78 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 10 | 1.78 |
| (1,81) | 1:708:B:VAL:C | 1:709:B:ARG:N | 1:709:B:ARG:CA | 1:709:B:ARG:C | 14 | 1.78 |
| (1,272) | 1:837:B:SER:N | 1:837:B:SER:CA | 1:837:B:SER:C | 1:838:B:ARG:N | 2 | 1.77 |
| (1,163) | 1:777:B:ILE:C | 1:778:B:VAL:N | 1:778:B:VAL:CA | 1:778:B:VAL:C | 1 | 1.76 |
| (1,121) | 1:751:B:GLY:C | 1:752:B:SER:N | 1:752:B:SER:CA | 1:752:B:SER:C | 1 | 1.76 |
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 14 | 1.76 |
| (1,69) | 1:702:B:LEU:C | 1:703:B:SER:N | 1:703:B:SER:CA | 1:703:B:SER:C | 4 | 1.76 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 11 | 1.75 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|---|---|---|---|---|---|---|
| (1,47) | 1:691:B:SER:C | 1:692:B:LEU:N | 1:692:B:LEU:CA | 1:692:B:LEU:C | 1 | 1.75 |
| (1,18) | 1:675:B:ILE:N | 1:675:B:ILE:CA | 1:675:B:ILE:C | 1:676:B:THR:N | 4 | 1.75 |
| (1,213) | 1:802:B:TYR:C | 1:803:B:TRP:N | 1:803:B:TRP:CA | 1:803:B:TRP:C | 9 | 1.74 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 13 | 1.73 |
| (1,86) | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 1:714:B:PRO:N | 12 | 1.73 |
| (1,248) | 1:820:B:ILE:N | 1:820:B:ILE:CA | 1:820:B:ILE:C | 1:821:B:ALA:N | 12 | 1.72 |
| (1,136) | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 1:760:B:LEU:N | 2 | 1.72 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 4 | 1.72 |
| (1,251) | 1:826:B:THR:C | 1:827:B:ASP:N | 1:827:B:ASP:CA | 1:827:B:ASP:C | 10 | 1.71 |
| (1,170) | 1:781:B:ILE:N | 1:781:B:ILE:CA | 1:781:B:ILE:C | 1:782:B:VAL:N | 15 | 1.7 |
| (1,154) | 1:773:B:ASP:N | 1:773:B:ASP:CA | 1:773:B:ASP:C | 1:774:B:LEU:N | 13 | 1.7 |
| (1,120) | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 1:752:B:SER:N | 1 | 1.7 |
| (1,54) | 1:695:B:LEU:N | 1:695:B:LEU:CA | 1:695:B:LEU:C | 1:696:B:ARG:N | 12 | 1.7 |
| (1,2) | 1:664:B:ASP:N | 1:664:B:ASP:CA | 1:664:B:ASP:C | 1:665:B:LYS:N | 9 | 1.7 |
| (1,156) | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 1:775:B:LEU:N | 14 | 1.69 |
| (1,126) | 1:754:B:ALA:N | 1:754:B:ALA:CA | 1:754:B:ALA:C | 1:755:B:LEU:N | 10 | 1.69 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 12 | 1.69 |
| (1,69) | 1:702:B:LEU:C | 1:703:B:SER:N | 1:703:B:SER:CA | 1:703:B:SER:C | 14 | 1.68 |
| (1,61) | 1:698:B:VAL:C | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 15 | 1.68 |
| (1,155) | 1:773:B:ASP:C | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 6 | 1.67 |
| (1,137) | 1:759:B:ASP:C | 1:760:B:LEU:N | 1:760:B:LEU:CA | 1:760:B:LEU:C | 1 | 1.67 |
| (1,68) | 1:702:B:LEU:N | 1:702:B:LEU:CA | 1:702:B:LEU:C | 1:703:B:SER:N | 13 | 1.67 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 2 | 1.67 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 10 | 1.66 |
| (1,80) | 1:708:B:VAL:N | 1:708:B:VAL:CA | 1:708:B:VAL:C | 1:709:B:ARG:N | 13 | 1.66 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 11 | 1.66 |
| (1,154) | 1:773:B:ASP:N | 1:773:B:ASP:CA | 1:773:B:ASP:C | 1:774:B:LEU:N | 5 | 1.65 |
| (1,131) | 1:756:B:ILE:C | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 3 | 1.65 |
| (1,154) | 1:773:B:ASP:N | 1:773:B:ASP:CA | 1:773:B:ASP:C | 1:774:B:LEU:N | 11 | 1.64 |
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 2 | 1.64 |
| (1,272) | 1:837:B:SER:N | 1:837:B:SER:CA | 1:837:B:SER:C | 1:838:B:ARG:N | 4 | 1.63 |
| (1,250) | 1:826:B:THR:N | 1:826:B:THR:CA | 1:826:B:THR:C | 1:827:B:ASP:N | 1 | 1.63 |
| (1,250) | 1:826:B:THR:N | 1:826:B:THR:CA | 1:826:B:THR:C | 1:827:B:ASP:N | 4 | 1.63 |
| (1,162) | 1:777:B:ILE:N | 1:777:B:ILE:CA | 1:777:B:ILE:C | 1:778:B:VAL:N | 12 | 1.63 |
| (1,120) | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 1:752:B:SER:N | 12 | 1.63 |
| (1,86) | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 1:714:B:PRO:N | 11 | 1.63 |
| (1,68) | 1:702:B:LEU:N | 1:702:B:LEU:CA | 1:702:B:LEU:C | 1:703:B:SER:N | 6 | 1.63 |
| (1,61) | 1:698:B:VAL:C | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 10 | 1.62 |
| (1,46) | 1:691:B:SER:N | 1:691:B:SER:CA | 1:691:B:SER:C | 1:692:B:LEU:N | 14 | 1.62 |
| (1,144) | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 1:764:B:SER:N | 6 | 1.61 |
| (1,81) | 1:708:B:VAL:C | 1:709:B:ARG:N | 1:709:B:ARG:CA | 1:709:B:ARG:C | 6 | 1.61 |
| (1,136) | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 1:760:B:LEU:N | 1 | 1.6 |
| (1,86) | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 1:714:B:PRO:N | 5 | 1.6 |
| (1,18) | 1:675:B:ILE:N | 1:675:B:ILE:CA | 1:675:B:ILE:C | 1:676:B:THR:N | 6 | 1.6 |
| (1,222) | 1:807:B:LEU:N | 1:807:B:LEU:CA | 1:807:B:LEU:C | 1:808:B:LYS:N | 4 | 1.59 |
| (1,151) | 1:771:B:LEU:C | 1:772:B:ARG:N | 1:772:B:ARG:CA | 1:772:B:ARG:C | 3 | 1.59 |
| (1,134) | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 1:759:B:ASP:N | 4 | 1.59 |
| (1,113) | 1:747:B:ARG:C | 1:748:B:LEU:N | 1:748:B:LEU:CA | 1:748:B:LEU:C | 13 | 1.59 |
| (1,99) | 1:740:B:ARG:C | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 11 | 1.59 |
| (1,83) | 1:709:B:ARG:C | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 9 | 1.59 |
| (1,34) | 1:685:B:PHE:N | 1:685:B:PHE:CA | 1:685:B:PHE:C | 1:686:B:ILE:N | 15 | 1.59 |

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*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|------|--------|--------|--------|--------|----------|---------------|
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 12 | 1.58 |
| (1,86) | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 1:714:B:PRO:N | 14 | 1.58 |
| (1,46) | 1:691:B:SER:N | 1:691:B:SER:CA | 1:691:B:SER:C | 1:692:B:LEU:N | 7 | 1.58 |
| (1,122) | 1:752:B:SER:N | 1:752:B:SER:CA | 1:752:B:SER:C | 1:753:B:LEU:N | 3 | 1.57 |
| (1,210) | 1:801:B:GLN:N | 1:801:B:GLN:CA | 1:801:B:GLN:C | 1:802:B:TYR:N | 13 | 1.56 |
| (1,202) | 1:797:B:TRP:N | 1:797:B:TRP:CA | 1:797:B:TRP:C | 1:798:B:ASN:N | 9 | 1.56 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 6 | 1.56 |
| (1,154) | 1:773:B:ASP:N | 1:773:B:ASP:CA | 1:773:B:ASP:C | 1:774:B:LEU:N | 15 | 1.56 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 12 | 1.56 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 5 | 1.55 |
| (1,100) | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 1:742:B:ARG:N | 3 | 1.55 |
| (1,196) | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 1:795:B:TYR:N | 11 | 1.54 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 14 | 1.54 |
| (1,185) | 1:788:B:ARG:C | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 3 | 1.54 |
| (1,121) | 1:751:B:GLY:C | 1:752:B:SER:N | 1:752:B:SER:CA | 1:752:B:SER:C | 6 | 1.54 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 14 | 1.54 |
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 10 | 1.54 |
| (1,69) | 1:702:B:LEU:C | 1:703:B:SER:N | 1:703:B:SER:CA | 1:703:B:SER:C | 13 | 1.54 |
| (1,18) | 1:675:B:ILE:N | 1:675:B:ILE:CA | 1:675:B:ILE:C | 1:676:B:THR:N | 12 | 1.54 |
| (1,206) | 1:799:B:LEU:N | 1:799:B:LEU:CA | 1:799:B:LEU:C | 1:800:B:LEU:N | 13 | 1.53 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 10 | 1.53 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 11 | 1.53 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 15 | 1.53 |
| (1,242) | 1:817:B:ALA:N | 1:817:B:ALA:CA | 1:817:B:ALA:C | 1:818:B:THR:N | 12 | 1.52 |
| (1,184) | 1:788:B:ARG:N | 1:788:B:ARG:CA | 1:788:B:ARG:C | 1:789:B:GLY:N | 3 | 1.52 |
| (1,142) | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 1:763:B:LEU:N | 5 | 1.52 |
| (1,271) | 1:836:B:ALA:C | 1:837:B:SER:N | 1:837:B:SER:CA | 1:837:B:SER:C | 2 | 1.51 |
| (1,246) | 1:819:B:ALA:N | 1:819:B:ALA:CA | 1:819:B:ALA:C | 1:820:B:ILE:N | 13 | 1.51 |
| (1,150) | 1:771:B:LEU:N | 1:771:B:LEU:CA | 1:771:B:LEU:C | 1:772:B:ARG:N | 11 | 1.51 |
| (1,123) | 1:752:B:SER:C | 1:753:B:LEU:N | 1:753:B:LEU:CA | 1:753:B:LEU:C | 6 | 1.51 |
| (1,172) | 1:782:B:VAL:N | 1:782:B:VAL:CA | 1:782:B:VAL:C | 1:783:B:GLU:N | 10 | 1.5 |
| (1,144) | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 1:764:B:SER:N | 3 | 1.5 |
| (1,47) | 1:691:B:SER:C | 1:692:B:LEU:N | 1:692:B:LEU:CA | 1:692:B:LEU:C | 14 | 1.5 |
| (1,247) | 1:819:B:ALA:C | 1:820:B:ILE:N | 1:820:B:ILE:CA | 1:820:B:ILE:C | 6 | 1.49 |
| (1,179) | 1:785:B:LEU:C | 1:786:B:GLY:N | 1:786:B:GLY:CA | 1:786:B:GLY:C | 4 | 1.49 |
| (1,162) | 1:777:B:ILE:N | 1:777:B:ILE:CA | 1:777:B:ILE:C | 1:778:B:VAL:N | 1 | 1.49 |
| (1,151) | 1:771:B:LEU:C | 1:772:B:ARG:N | 1:772:B:ARG:CA | 1:772:B:ARG:C | 1 | 1.49 |
| (1,135) | 1:758:B:ASP:C | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 4 | 1.49 |
| (1,113) | 1:747:B:ARG:C | 1:748:B:LEU:N | 1:748:B:LEU:CA | 1:748:B:LEU:C | 3 | 1.49 |
| (1,46) | 1:691:B:SER:N | 1:691:B:SER:CA | 1:691:B:SER:C | 1:692:B:LEU:N | 2 | 1.49 |
| (1,197) | 1:794:B:LYS:C | 1:795:B:TYR:N | 1:795:B:TYR:CA | 1:795:B:TYR:C | 11 | 1.48 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 1 | 1.48 |
| (1,154) | 1:773:B:ASP:N | 1:773:B:ASP:CA | 1:773:B:ASP:C | 1:774:B:LEU:N | 6 | 1.48 |
| (1,119) | 1:750:B:ASN:C | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 8 | 1.48 |
| (1,198) | 1:795:B:TYR:N | 1:795:B:TYR:CA | 1:795:B:TYR:C | 1:796:B:TRP:N | 8 | 1.47 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 15 | 1.47 |
| (1,143) | 1:762:B:SER:C | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 4 | 1.47 |
| (1,197) | 1:794:B:LYS:C | 1:795:B:TYR:N | 1:795:B:TYR:CA | 1:795:B:TYR:C | 15 | 1.46 |
| (1,123) | 1:752:B:SER:C | 1:753:B:LEU:N | 1:753:B:LEU:CA | 1:753:B:LEU:C | 3 | 1.46 |
| (1,272) | 1:837:B:SER:N | 1:837:B:SER:CA | 1:837:B:SER:C | 1:838:B:ARG:N | 8 | 1.45 |
| (1,111) | 1:746:B:ILE:C | 1:747:B:ARG:N | 1:747:B:ARG:CA | 1:747:B:ARG:C | 7 | 1.45 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|-----|--------|--------|--------|--------|----------|---------------|
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 5 | 1.44 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 15 | 1.44 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 4 | 1.43 |
| (1,168) | 1:780:B:ARG:N | 1:780:B:ARG:CA | 1:780:B:ARG:C | 1:781:B:ILE:N | 15 | 1.43 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 2 | 1.43 |
| (1,202) | 1:797:B:TRP:N | 1:797:B:TRP:CA | 1:797:B:TRP:C | 1:798:B:ASN:N | 3 | 1.42 |
| (1,197) | 1:794:B:LYS:C | 1:795:B:TYR:N | 1:795:B:TYR:CA | 1:795:B:TYR:C | 5 | 1.42 |
| (1,156) | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 1:775:B:LEU:N | 5 | 1.42 |
| (1,83) | 1:709:B:ARG:C | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 14 | 1.42 |
| (1,64) | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 1:701:B:VAL:N | 10 | 1.42 |
| (1,251) | 1:826:B:THR:C | 1:827:B:ASP:N | 1:827:B:ASP:CA | 1:827:B:ASP:C | 2 | 1.41 |
| (1,166) | 1:779:B:THR:N | 1:779:B:THR:CA | 1:779:B:THR:C | 1:780:B:ARG:N | 5 | 1.41 |
| (1,142) | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 1:763:B:LEU:N | 4 | 1.41 |
| (1,135) | 1:758:B:ASP:C | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 2 | 1.41 |
| (1,120) | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 1:752:B:SER:N | 4 | 1.41 |
| (1,86) | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 1:714:B:PRO:N | 4 | 1.41 |
| (1,68) | 1:702:B:LEU:N | 1:702:B:LEU:CA | 1:702:B:LEU:C | 1:703:B:SER:N | 11 | 1.41 |
| (1,64) | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 1:701:B:VAL:N | 14 | 1.41 |
| (1,196) | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 1:795:B:TYR:N | 14 | 1.4 |
| (1,99) | 1:740:B:ARG:C | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 12 | 1.4 |
| (1,88) | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 1:716:B:SER:N | 3 | 1.4 |
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 12 | 1.4 |
| (1,273) | 1:837:B:SER:C | 1:838:B:ARG:N | 1:838:B:ARG:CA | 1:838:B:ARG:C | 5 | 1.39 |
| (1,243) | 1:817:B:ALA:C | 1:818:B:THR:N | 1:818:B:THR:CA | 1:818:B:THR:C | 12 | 1.39 |
| (1,163) | 1:777:B:ILE:C | 1:778:B:VAL:N | 1:778:B:VAL:CA | 1:778:B:VAL:C | 14 | 1.39 |
| (1,133) | 1:757:B:TRP:C | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 8 | 1.39 |
| (1,81) | 1:708:B:VAL:C | 1:709:B:ARG:N | 1:709:B:ARG:CA | 1:709:B:ARG:C | 3 | 1.39 |
| (1,273) | 1:837:B:SER:C | 1:838:B:ARG:N | 1:838:B:ARG:CA | 1:838:B:ARG:C | 2 | 1.38 |
| (1,166) | 1:779:B:THR:N | 1:779:B:THR:CA | 1:779:B:THR:C | 1:780:B:ARG:N | 13 | 1.38 |
| (1,69) | 1:702:B:LEU:C | 1:703:B:SER:N | 1:703:B:SER:CA | 1:703:B:SER:C | 15 | 1.38 |
| (1,210) | 1:801:B:GLN:N | 1:801:B:GLN:CA | 1:801:B:GLN:C | 1:802:B:TYR:N | 7 | 1.37 |
| (1,195) | 1:793:B:LEU:C | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 15 | 1.37 |
| (1,185) | 1:788:B:ARG:C | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 10 | 1.37 |
| (1,84) | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 1:711:B:GLY:N | 3 | 1.37 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 5 | 1.37 |
| (1,274) | 1:838:B:ARG:N | 1:838:B:ARG:CA | 1:838:B:ARG:C | 1:839:B:ALA:N | 12 | 1.36 |
| (1,35) | 1:685:B:PHE:C | 1:686:B:ILE:N | 1:686:B:ILE:CA | 1:686:B:ILE:C | 10 | 1.36 |
| (1,27) | 1:681:B:TYR:C | 1:682:B:ILE:N | 1:682:B:ILE:CA | 1:682:B:ILE:C | 10 | 1.36 |
| (1,194) | 1:793:B:LEU:N | 1:793:B:LEU:CA | 1:793:B:LEU:C | 1:794:B:LYS:N | 13 | 1.35 |
| (1,192) | 1:792:B:ALA:N | 1:792:B:ALA:CA | 1:792:B:ALA:C | 1:793:B:LEU:N | 5 | 1.35 |
| (1,99) | 1:740:B:ARG:C | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 1 | 1.35 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 4 | 1.35 |
| (1,97) | 1:739:B:GLU:C | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 14 | 1.35 |
| (1,86) | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 1:714:B:PRO:N | 6 | 1.35 |
| (1,47) | 1:691:B:SER:C | 1:692:B:LEU:N | 1:692:B:LEU:CA | 1:692:B:LEU:C | 7 | 1.35 |
| (1,206) | 1:799:B:LEU:N | 1:799:B:LEU:CA | 1:799:B:LEU:C | 1:800:B:LEU:N | 5 | 1.34 |
| (1,162) | 1:777:B:ILE:N | 1:777:B:ILE:CA | 1:777:B:ILE:C | 1:778:B:VAL:N | 4 | 1.34 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 13 | 1.34 |
| (1,121) | 1:751:B:GLY:C | 1:752:B:SER:N | 1:752:B:SER:CA | 1:752:B:SER:C | 12 | 1.34 |
| (1,68) | 1:702:B:LEU:N | 1:702:B:LEU:CA | 1:702:B:LEU:C | 1:703:B:SER:N | 15 | 1.34 |
| (1,64) | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 1:701:B:VAL:N | 1 | 1.34 |

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*Continued from previous page...*

| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|-----|--------|--------|--------|--------|----------|---------------|
| (1,211) | 1:801:B:GLN:C | 1:802:B:TYR:N | 1:802:B:TYR:CA | 1:802:B:TYR:C | 7 | 1.33 |
| (1,120) | 1:751:B:GLY:N | 1:751:B:GLY:CA | 1:751:B:GLY:C | 1:752:B:SER:N | 14 | 1.33 |
| (1,83) | 1:709:B:ARG:C | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 1 | 1.33 |
| (1,274) | 1:838:B:ARG:N | 1:838:B:ARG:CA | 1:838:B:ARG:C | 1:839:B:ALA:N | 5 | 1.32 |
| (1,196) | 1:794:B:LYS:N | 1:794:B:LYS:CA | 1:794:B:LYS:C | 1:795:B:TYR:N | 9 | 1.32 |
| (1,179) | 1:785:B:LEU:C | 1:786:B:GLY:N | 1:786:B:GLY:CA | 1:786:B:GLY:C | 9 | 1.31 |
| (1,84) | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 1:711:B:GLY:N | 11 | 1.31 |
| (1,46) | 1:691:B:SER:N | 1:691:B:SER:CA | 1:691:B:SER:C | 1:692:B:LEU:N | 11 | 1.31 |
| (1,242) | 1:817:B:ALA:N | 1:817:B:ALA:CA | 1:817:B:ALA:C | 1:818:B:THR:N | 4 | 1.3 |
| (1,202) | 1:797:B:TRP:N | 1:797:B:TRP:CA | 1:797:B:TRP:C | 1:798:B:ASN:N | 10 | 1.3 |
| (1,166) | 1:779:B:THR:N | 1:779:B:THR:CA | 1:779:B:THR:C | 1:780:B:ARG:N | 1 | 1.3 |
| (1,55) | 1:695:B:LEU:C | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 12 | 1.3 |
| (1,3) | 1:664:B:ASP:C | 1:665:B:LYS:N | 1:665:B:LYS:CA | 1:665:B:LYS:C | 14 | 1.3 |
| (1,225) | 1:808:B:LYS:C | 1:809:B:ASN:N | 1:809:B:ASN:CA | 1:809:B:ASN:C | 8 | 1.29 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 8 | 1.29 |
| (1,187) | 1:789:B:GLY:C | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 7 | 1.29 |
| (1,186) | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 1:790:B:TRP:N | 7 | 1.29 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 12 | 1.29 |
| (1,271) | 1:836:B:ALA:C | 1:837:B:SER:N | 1:837:B:SER:CA | 1:837:B:SER:C | 8 | 1.28 |
| (1,214) | 1:803:B:TRP:N | 1:803:B:TRP:CA | 1:803:B:TRP:C | 1:804:B:SER:N | 9 | 1.28 |
| (1,133) | 1:757:B:TRP:C | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 7 | 1.28 |
| (1,128) | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 1:756:B:ILE:N | 6 | 1.28 |
| (1,47) | 1:691:B:SER:C | 1:692:B:LEU:N | 1:692:B:LEU:CA | 1:692:B:LEU:C | 13 | 1.28 |
| (1,46) | 1:691:B:SER:N | 1:691:B:SER:CA | 1:691:B:SER:C | 1:692:B:LEU:N | 5 | 1.28 |
| (1,216) | 1:804:B:SER:N | 1:804:B:SER:CA | 1:804:B:SER:C | 1:805:B:GLN:N | 7 | 1.27 |
| (1,178) | 1:785:B:LEU:N | 1:785:B:LEU:CA | 1:785:B:LEU:C | 1:786:B:GLY:N | 4 | 1.27 |
| (1,155) | 1:773:B:ASP:C | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 11 | 1.27 |
| (1,86) | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 1:714:B:PRO:N | 15 | 1.27 |
| (1,69) | 1:702:B:LEU:C | 1:703:B:SER:N | 1:703:B:SER:CA | 1:703:B:SER:C | 6 | 1.27 |
| (1,25) | 1:678:B:TRP:C | 1:679:B:LEU:N | 1:679:B:LEU:CA | 1:679:B:LEU:C | 10 | 1.27 |
| (1,184) | 1:788:B:ARG:N | 1:788:B:ARG:CA | 1:788:B:ARG:C | 1:789:B:GLY:N | 10 | 1.26 |
| (1,171) | 1:781:B:ILE:C | 1:782:B:VAL:N | 1:782:B:VAL:CA | 1:782:B:VAL:C | 3 | 1.26 |
| (1,155) | 1:773:B:ASP:C | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 12 | 1.26 |
| (1,69) | 1:702:B:LEU:C | 1:703:B:SER:N | 1:703:B:SER:CA | 1:703:B:SER:C | 5 | 1.26 |
| (1,20) | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 1:677:B:ASN:N | 7 | 1.26 |
| (1,1) | 1:663:B:LEU:C | 1:664:B:ASP:N | 1:664:B:ASP:CA | 1:664:B:ASP:C | 10 | 1.26 |
| (1,270) | 1:836:B:ALA:N | 1:836:B:ALA:CA | 1:836:B:ALA:C | 1:837:B:SER:N | 8 | 1.25 |
| (1,159) | 1:775:B:LEU:C | 1:776:B:LEU:N | 1:776:B:LEU:CA | 1:776:B:LEU:C | 10 | 1.25 |
| (1,135) | 1:758:B:ASP:C | 1:759:B:ASP:N | 1:759:B:ASP:CA | 1:759:B:ASP:C | 8 | 1.25 |
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 6 | 1.25 |
| (1,64) | 1:700:B:ALA:N | 1:700:B:ALA:CA | 1:700:B:ALA:C | 1:701:B:VAL:N | 12 | 1.25 |
| (1,194) | 1:793:B:LEU:N | 1:793:B:LEU:CA | 1:793:B:LEU:C | 1:794:B:LYS:N | 11 | 1.24 |
| (1,170) | 1:781:B:ILE:N | 1:781:B:ILE:CA | 1:781:B:ILE:C | 1:782:B:VAL:N | 14 | 1.24 |
| (1,168) | 1:780:B:ARG:N | 1:780:B:ARG:CA | 1:780:B:ARG:C | 1:781:B:ILE:N | 11 | 1.24 |
| (1,145) | 1:763:B:LEU:C | 1:764:B:SER:N | 1:764:B:SER:CA | 1:764:B:SER:C | 4 | 1.24 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 10 | 1.24 |
| (1,35) | 1:685:B:PHE:C | 1:686:B:ILE:N | 1:686:B:ILE:CA | 1:686:B:ILE:C | 15 | 1.24 |
| (1,192) | 1:792:B:ALA:N | 1:792:B:ALA:CA | 1:792:B:ALA:C | 1:793:B:LEU:N | 11 | 1.23 |
| (1,163) | 1:777:B:ILE:C | 1:778:B:VAL:N | 1:778:B:VAL:CA | 1:778:B:VAL:C | 5 | 1.23 |
| (1,143) | 1:762:B:SER:C | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 5 | 1.23 |
| (1,99) | 1:740:B:ARG:C | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 15 | 1.23 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|-----|--------|--------|--------|--------|----------|---------------|
| (1,54) | 1:695:B:LEU:N | 1:695:B:LEU:CA | 1:695:B:LEU:C | 1:696:B:ARG:N | 5 | 1.23 |
| (1,251) | 1:826:B:THR:C | 1:827:B:ASP:N | 1:827:B:ASP:CA | 1:827:B:ASP:C | 9 | 1.22 |
| (1,251) | 1:826:B:THR:C | 1:827:B:ASP:N | 1:827:B:ASP:CA | 1:827:B:ASP:C | 11 | 1.22 |
| (1,206) | 1:799:B:LEU:N | 1:799:B:LEU:CA | 1:799:B:LEU:C | 1:800:B:LEU:N | 7 | 1.22 |
| (1,197) | 1:794:B:LYS:C | 1:795:B:TYR:N | 1:795:B:TYR:CA | 1:795:B:TYR:C | 13 | 1.22 |
| (1,137) | 1:759:B:ASP:C | 1:760:B:LEU:N | 1:760:B:LEU:CA | 1:760:B:LEU:C | 2 | 1.22 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 15 | 1.22 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 9 | 1.22 |
| (1,86) | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 1:714:B:PRO:N | 3 | 1.22 |
| (1,83) | 1:709:B:ARG:C | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 15 | 1.22 |
| (1,69) | 1:702:B:LEU:C | 1:703:B:SER:N | 1:703:B:SER:CA | 1:703:B:SER:C | 8 | 1.22 |
| (1,274) | 1:838:B:ARG:N | 1:838:B:ARG:CA | 1:838:B:ARG:C | 1:839:B:ALA:N | 4 | 1.21 |
| (1,274) | 1:838:B:ARG:N | 1:838:B:ARG:CA | 1:838:B:ARG:C | 1:839:B:ALA:N | 8 | 1.21 |
| (1,175) | 1:783:B:GLU:C | 1:784:B:LEU:N | 1:784:B:LEU:CA | 1:784:B:LEU:C | 15 | 1.21 |
| (1,156) | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 1:775:B:LEU:N | 13 | 1.21 |
| (1,134) | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 1:759:B:ASP:N | 2 | 1.21 |
| (1,61) | 1:698:B:VAL:C | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 9 | 1.21 |
| (1,186) | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 1:790:B:TRP:N | 3 | 1.2 |
| (1,172) | 1:782:B:VAL:N | 1:782:B:VAL:CA | 1:782:B:VAL:C | 1:783:B:GLU:N | 15 | 1.2 |
| (1,131) | 1:756:B:ILE:C | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 15 | 1.2 |
| (1,68) | 1:702:B:LEU:N | 1:702:B:LEU:CA | 1:702:B:LEU:C | 1:703:B:SER:N | 14 | 1.2 |
| (1,203) | 1:797:B:TRP:C | 1:798:B:ASN:N | 1:798:B:ASN:CA | 1:798:B:ASN:C | 9 | 1.19 |
| (1,158) | 1:775:B:LEU:N | 1:775:B:LEU:CA | 1:775:B:LEU:C | 1:776:B:LEU:N | 9 | 1.19 |
| (1,141) | 1:761:B:ARG:C | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 12 | 1.19 |
| (1,99) | 1:740:B:ARG:C | 1:741:B:ASP:N | 1:741:B:ASP:CA | 1:741:B:ASP:C | 2 | 1.19 |
| (1,46) | 1:691:B:SER:N | 1:691:B:SER:CA | 1:691:B:SER:C | 1:692:B:LEU:N | 3 | 1.19 |
| (1,23) | 1:677:B:ASN:C | 1:678:B:TRP:N | 1:678:B:TRP:CA | 1:678:B:TRP:C | 4 | 1.19 |
| (1,250) | 1:826:B:THR:N | 1:826:B:THR:CA | 1:826:B:THR:C | 1:827:B:ASP:N | 15 | 1.18 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 14 | 1.18 |
| (1,72) | 1:704:B:LEU:N | 1:704:B:LEU:CA | 1:704:B:LEU:C | 1:705:B:VAL:N | 10 | 1.18 |
| (1,68) | 1:702:B:LEU:N | 1:702:B:LEU:CA | 1:702:B:LEU:C | 1:703:B:SER:N | 8 | 1.18 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 7 | 1.18 |
| (1,186) | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 1:790:B:TRP:N | 11 | 1.17 |
| (1,185) | 1:788:B:ARG:C | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 5 | 1.17 |
| (1,79) | 1:707:B:ARG:C | 1:708:B:VAL:N | 1:708:B:VAL:CA | 1:708:B:VAL:C | 3 | 1.17 |
| (1,2) | 1:664:B:ASP:N | 1:664:B:ASP:CA | 1:664:B:ASP:C | 1:665:B:LYS:N | 14 | 1.17 |
| (1,225) | 1:808:B:LYS:C | 1:809:B:ASN:N | 1:809:B:ASN:CA | 1:809:B:ASN:C | 11 | 1.16 |
| (1,138) | 1:760:B:LEU:N | 1:760:B:LEU:CA | 1:760:B:LEU:C | 1:761:B:ARG:N | 13 | 1.16 |
| (1,137) | 1:759:B:ASP:C | 1:760:B:LEU:N | 1:760:B:LEU:CA | 1:760:B:LEU:C | 12 | 1.16 |
| (1,86) | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 1:714:B:PRO:N | 8 | 1.16 |
| (1,273) | 1:837:B:SER:C | 1:838:B:ARG:N | 1:838:B:ARG:CA | 1:838:B:ARG:C | 1 | 1.15 |
| (1,223) | 1:807:B:LEU:C | 1:808:B:LYS:N | 1:808:B:LYS:CA | 1:808:B:LYS:C | 4 | 1.15 |
| (1,211) | 1:801:B:GLN:C | 1:802:B:TYR:N | 1:802:B:TYR:CA | 1:802:B:TYR:C | 5 | 1.15 |
| (1,174) | 1:783:B:GLU:N | 1:783:B:GLU:CA | 1:783:B:GLU:C | 1:784:B:LEU:N | 15 | 1.15 |
| (1,158) | 1:775:B:LEU:N | 1:775:B:LEU:CA | 1:775:B:LEU:C | 1:776:B:LEU:N | 2 | 1.15 |
| (1,144) | 1:763:B:LEU:N | 1:763:B:LEU:CA | 1:763:B:LEU:C | 1:764:B:SER:N | 9 | 1.15 |
| (1,141) | 1:761:B:ARG:C | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 11 | 1.15 |
| (1,123) | 1:752:B:SER:C | 1:753:B:LEU:N | 1:753:B:LEU:CA | 1:753:B:LEU:C | 10 | 1.15 |
| (1,98) | 1:740:B:ARG:N | 1:740:B:ARG:CA | 1:740:B:ARG:C | 1:741:B:ASP:N | 10 | 1.15 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 15 | 1.14 |
| (1,186) | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 1:790:B:TRP:N | 12 | 1.14 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|------|--------|--------|--------|--------|----------|---------------|
| (1,162) | 1:777:B:ILE:N | 1:777:B:ILE:CA | 1:777:B:ILE:C | 1:778:B:VAL:N | 6 | 1.14 |
| (1,162) | 1:777:B:ILE:N | 1:777:B:ILE:CA | 1:777:B:ILE:C | 1:778:B:VAL:N | 13 | 1.14 |
| (1,158) | 1:775:B:LEU:N | 1:775:B:LEU:CA | 1:775:B:LEU:C | 1:776:B:LEU:N | 3 | 1.14 |
| (1,83) | 1:709:B:ARG:C | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 2 | 1.14 |
| (1,273) | 1:837:B:SER:C | 1:838:B:ARG:N | 1:838:B:ARG:CA | 1:838:B:ARG:C | 4 | 1.13 |
| (1,179) | 1:785:B:LEU:C | 1:786:B:GLY:N | 1:786:B:GLY:CA | 1:786:B:GLY:C | 10 | 1.13 |
| (1,86) | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 1:714:B:PRO:N | 2 | 1.13 |
| (1,61) | 1:698:B:VAL:C | 1:699:B:PHE:N | 1:699:B:PHE:CA | 1:699:B:PHE:C | 1 | 1.13 |
| (1,57) | 1:696:B:ARG:C | 1:697:B:ILE:N | 1:697:B:ILE:CA | 1:697:B:ILE:C | 10 | 1.13 |
| (1,55) | 1:695:B:LEU:C | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 5 | 1.13 |
| (1,47) | 1:691:B:SER:C | 1:692:B:LEU:N | 1:692:B:LEU:CA | 1:692:B:LEU:C | 5 | 1.13 |
| (1,22) | 1:677:B:ASN:N | 1:677:B:ASN:CA | 1:677:B:ASN:C | 1:678:B:TRP:N | 2 | 1.13 |
| (1,208) | 1:800:B:LEU:N | 1:800:B:LEU:CA | 1:800:B:LEU:C | 1:801:B:GLN:N | 11 | 1.12 |
| (1,197) | 1:794:B:LYS:C | 1:795:B:TYR:N | 1:795:B:TYR:CA | 1:795:B:TYR:C | 1 | 1.12 |
| (1,156) | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 1:775:B:LEU:N | 8 | 1.12 |
| (1,153) | 1:772:B:ARG:C | 1:773:B:ASP:N | 1:773:B:ASP:CA | 1:773:B:ASP:C | 9 | 1.12 |
| (1,81) | 1:708:B:VAL:C | 1:709:B:ARG:N | 1:709:B:ARG:CA | 1:709:B:ARG:C | 9 | 1.12 |
| (1,47) | 1:691:B:SER:C | 1:692:B:LEU:N | 1:692:B:LEU:CA | 1:692:B:LEU:C | 2 | 1.12 |
| (1,46) | 1:691:B:SER:N | 1:691:B:SER:CA | 1:691:B:SER:C | 1:692:B:LEU:N | 4 | 1.12 |
| (1,187) | 1:789:B:GLY:C | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 11 | 1.11 |
| (1,179) | 1:785:B:LEU:C | 1:786:B:GLY:N | 1:786:B:GLY:CA | 1:786:B:GLY:C | 3 | 1.11 |
| (1,83) | 1:709:B:ARG:C | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 10 | 1.11 |
| (1,76) | 1:706:B:ASN:N | 1:706:B:ASN:CA | 1:706:B:ASN:C | 1:707:B:ARG:N | 5 | 1.11 |
| (1,20) | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 1:677:B:ASN:N | 12 | 1.11 |
| (1,18) | 1:675:B:ILE:N | 1:675:B:ILE:CA | 1:675:B:ILE:C | 1:676:B:THR:N | 3 | 1.11 |
| (1,194) | 1:793:B:LEU:N | 1:793:B:LEU:CA | 1:793:B:LEU:C | 1:794:B:LYS:N | 9 | 1.1 |
| (1,130) | 1:756:B:ILE:N | 1:756:B:ILE:CA | 1:756:B:ILE:C | 1:757:B:TRP:N | 2 | 1.1 |
| (1,127) | 1:754:B:ALA:C | 1:755:B:LEU:N | 1:755:B:LEU:CA | 1:755:B:LEU:C | 6 | 1.1 |
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 11 | 1.1 |
| (1,250) | 1:826:B:THR:N | 1:826:B:THR:CA | 1:826:B:THR:C | 1:827:B:ASP:N | 9 | 1.09 |
| (1,197) | 1:794:B:LYS:C | 1:795:B:TYR:N | 1:795:B:TYR:CA | 1:795:B:TYR:C | 9 | 1.09 |
| (1,192) | 1:792:B:ALA:N | 1:792:B:ALA:CA | 1:792:B:ALA:C | 1:793:B:LEU:N | 13 | 1.09 |
| (1,155) | 1:773:B:ASP:C | 1:774:B:LEU:N | 1:774:B:LEU:CA | 1:774:B:LEU:C | 5 | 1.09 |
| (1,154) | 1:773:B:ASP:N | 1:773:B:ASP:CA | 1:773:B:ASP:C | 1:774:B:LEU:N | 1 | 1.09 |
| (1,80) | 1:708:B:VAL:N | 1:708:B:VAL:CA | 1:708:B:VAL:C | 1:709:B:ARG:N | 14 | 1.09 |
| (1,22) | 1:677:B:ASN:N | 1:677:B:ASN:CA | 1:677:B:ASN:C | 1:678:B:TRP:N | 9 | 1.09 |
| (1,189) | 1:790:B:TRP:C | 1:791:B:GLU:N | 1:791:B:GLU:CA | 1:791:B:GLU:C | 14 | 1.08 |
| (1,185) | 1:788:B:ARG:C | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 9 | 1.08 |
| (1,69) | 1:702:B:LEU:C | 1:703:B:SER:N | 1:703:B:SER:CA | 1:703:B:SER:C | 2 | 1.08 |
| (1,56) | 1:696:B:ARG:N | 1:696:B:ARG:CA | 1:696:B:ARG:C | 1:697:B:ILE:N | 8 | 1.08 |
| (1,248) | 1:820:B:ILE:N | 1:820:B:ILE:CA | 1:820:B:ILE:C | 1:821:B:ALA:N | 2 | 1.07 |
| (1,186) | 1:789:B:GLY:N | 1:789:B:GLY:CA | 1:789:B:GLY:C | 1:790:B:TRP:N | 4 | 1.07 |
| (1,116) | 1:749:B:VAL:N | 1:749:B:VAL:CA | 1:749:B:VAL:C | 1:750:B:ASN:N | 2 | 1.07 |
| (1,85) | 1:712:B:TYR:C | 1:713:B:SER:N | 1:713:B:SER:CA | 1:713:B:SER:C | 9 | 1.07 |
| (1,68) | 1:702:B:LEU:N | 1:702:B:LEU:CA | 1:702:B:LEU:C | 1:703:B:SER:N | 4 | 1.07 |
| (1,187) | 1:789:B:GLY:C | 1:790:B:TRP:N | 1:790:B:TRP:CA | 1:790:B:TRP:C | 12 | 1.06 |
| (1,47) | 1:691:B:SER:C | 1:692:B:LEU:N | 1:692:B:LEU:CA | 1:692:B:LEU:C | 4 | 1.06 |
| (1,165) | 1:778:B:VAL:C | 1:779:B:THR:N | 1:779:B:THR:CA | 1:779:B:THR:C | 13 | 1.05 |
| (1,111) | 1:746:B:ILE:C | 1:747:B:ARG:N | 1:747:B:ARG:CA | 1:747:B:ARG:C | 6 | 1.05 |
| (1,54) | 1:695:B:LEU:N | 1:695:B:LEU:CA | 1:695:B:LEU:C | 1:696:B:ARG:N | 15 | 1.05 |
| (1,50) | 1:693:B:ILE:N | 1:693:B:ILE:CA | 1:693:B:ILE:C | 1:694:B:GLY:N | 10 | 1.05 |

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| Key | Atom-1 | Atom-2 | Atom-3 | Atom-4 | Model ID | Violation (°) |
|-----|--------|--------|--------|--------|----------|---------------|
| (1,291) | 1:851:B:LEU:C | 1:852:B:GLU:N | 1:852:B:GLU:CA | 1:852:B:GLU:C | 11 | 1.04 |
| (1,248) | 1:820:B:ILE:N | 1:820:B:ILE:CA | 1:820:B:ILE:C | 1:821:B:ALA:N | 6 | 1.04 |
| (1,238) | 1:815:B:LEU:N | 1:815:B:LEU:CA | 1:815:B:LEU:C | 1:816:B:ASN:N | 15 | 1.04 |
| (1,234) | 1:813:B:SER:N | 1:813:B:SER:CA | 1:813:B:SER:C | 1:814:B:LEU:N | 5 | 1.04 |
| (1,225) | 1:808:B:LYS:C | 1:809:B:ASN:N | 1:809:B:ASN:CA | 1:809:B:ASN:C | 2 | 1.04 |
| (1,191) | 1:791:B:GLU:C | 1:792:B:ALA:N | 1:792:B:ALA:CA | 1:792:B:ALA:C | 12 | 1.04 |
| (1,134) | 1:758:B:ASP:N | 1:758:B:ASP:CA | 1:758:B:ASP:C | 1:759:B:ASP:N | 8 | 1.04 |
| (1,47) | 1:691:B:SER:C | 1:692:B:LEU:N | 1:692:B:LEU:CA | 1:692:B:LEU:C | 3 | 1.04 |
| (1,272) | 1:837:B:SER:N | 1:837:B:SER:CA | 1:837:B:SER:C | 1:838:B:ARG:N | 1 | 1.03 |
| (1,217) | 1:804:B:SER:C | 1:805:B:GLN:N | 1:805:B:GLN:CA | 1:805:B:GLN:C | 7 | 1.03 |
| (1,174) | 1:783:B:GLU:N | 1:783:B:GLU:CA | 1:783:B:GLU:C | 1:784:B:LEU:N | 13 | 1.03 |
| (1,141) | 1:761:B:ARG:C | 1:762:B:SER:N | 1:762:B:SER:CA | 1:762:B:SER:C | 10 | 1.03 |
| (1,118) | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 1:751:B:GLY:N | 8 | 1.03 |
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 13 | 1.03 |
| (1,60) | 1:698:B:VAL:N | 1:698:B:VAL:CA | 1:698:B:VAL:C | 1:699:B:PHE:N | 14 | 1.03 |
| (1,20) | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 1:677:B:ASN:N | 11 | 1.03 |
| (1,224) | 1:808:B:LYS:N | 1:808:B:LYS:CA | 1:808:B:LYS:C | 1:809:B:ASN:N | 2 | 1.02 |
| (1,191) | 1:791:B:GLU:C | 1:792:B:ALA:N | 1:792:B:ALA:CA | 1:792:B:ALA:C | 9 | 1.02 |
| (1,165) | 1:778:B:VAL:C | 1:779:B:THR:N | 1:779:B:THR:CA | 1:779:B:THR:C | 2 | 1.02 |
| (1,117) | 1:749:B:VAL:C | 1:750:B:ASN:N | 1:750:B:ASN:CA | 1:750:B:ASN:C | 2 | 1.02 |
| (1,68) | 1:702:B:LEU:N | 1:702:B:LEU:CA | 1:702:B:LEU:C | 1:703:B:SER:N | 7 | 1.02 |
| (1,24) | 1:678:B:TRP:N | 1:678:B:TRP:CA | 1:678:B:TRP:C | 1:679:B:LEU:N | 10 | 1.02 |
| (1,19) | 1:675:B:ILE:C | 1:676:B:THR:N | 1:676:B:THR:CA | 1:676:B:THR:C | 3 | 1.02 |
| (1,251) | 1:826:B:THR:C | 1:827:B:ASP:N | 1:827:B:ASP:CA | 1:827:B:ASP:C | 5 | 1.01 |
| (1,203) | 1:797:B:TRP:C | 1:798:B:ASN:N | 1:798:B:ASN:CA | 1:798:B:ASN:C | 10 | 1.01 |
| (1,191) | 1:791:B:GLU:C | 1:792:B:ALA:N | 1:792:B:ALA:CA | 1:792:B:ALA:C | 15 | 1.01 |
| (1,179) | 1:785:B:LEU:C | 1:786:B:GLY:N | 1:786:B:GLY:CA | 1:786:B:GLY:C | 1 | 1.01 |
| (1,175) | 1:783:B:GLU:C | 1:784:B:LEU:N | 1:784:B:LEU:CA | 1:784:B:LEU:C | 13 | 1.01 |
| (1,151) | 1:771:B:LEU:C | 1:772:B:ARG:N | 1:772:B:ARG:CA | 1:772:B:ARG:C | 8 | 1.01 |
| (1,132) | 1:757:B:TRP:N | 1:757:B:TRP:CA | 1:757:B:TRP:C | 1:758:B:ASP:N | 6 | 1.01 |
| (1,87) | 1:714:B:PRO:C | 1:715:B:LEU:N | 1:715:B:LEU:CA | 1:715:B:LEU:C | 8 | 1.01 |
| (1,83) | 1:709:B:ARG:C | 1:710:B:GLN:N | 1:710:B:GLN:CA | 1:710:B:GLN:C | 5 | 1.01 |
| (1,60) | 1:698:B:VAL:N | 1:698:B:VAL:CA | 1:698:B:VAL:C | 1:699:B:PHE:N | 15 | 1.01 |
| (1,5) | 1:665:B:LYS:C | 1:666:B:TRP:N | 1:666:B:TRP:CA | 1:666:B:TRP:C | 15 | 1.01 |
| (1,256) | 1:829:B:VAL:N | 1:829:B:VAL:CA | 1:829:B:VAL:C | 1:830:B:ILE:N | 6 | 1.0 |
| (1,250) | 1:826:B:THR:N | 1:826:B:THR:CA | 1:826:B:THR:C | 1:827:B:ASP:N | 2 | 1.0 |
| (1,238) | 1:815:B:LEU:N | 1:815:B:LEU:CA | 1:815:B:LEU:C | 1:816:B:ASN:N | 2 | 1.0 |