This is a Full wwPDB/EMDataBank EM Map/Model Validation Report for a publicly released PDB/EMDB entry.

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

A user guide is available at
with specific help available everywhere you see the 📖 symbol.

MolProbity : 4.02b-467
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : trunk30686
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

**ELECTRON MICROSCOPY**

The reported resolution of this entry is 8.20 Å.

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.

<table>
<thead>
<tr>
<th>Metric</th>
<th>Whole archive (#Entries)</th>
<th>EM structures (#Entries)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clashscore</td>
<td>136279</td>
<td>1886</td>
</tr>
<tr>
<td>Ramachandran outliers</td>
<td>132675</td>
<td>1663</td>
</tr>
<tr>
<td>Sidechain outliers</td>
<td>132484</td>
<td>1531</td>
</tr>
</tbody>
</table>

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for \( \geq 3, 2, 1 \) and 0 types of geometric quality criteria. 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\%

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Length</th>
<th>Quality of chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>547</td>
<td>62%</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>547</td>
<td>62%</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>547</td>
<td>62%</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>547</td>
<td>63%</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>547</td>
<td>62%</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>547</td>
<td>63%</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>547</td>
<td>62%</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>547</td>
<td>56%</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>547</td>
<td>55%</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Length</th>
<th>Quality of chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>J</td>
<td>547</td>
<td><img src="image1" alt="Quality Bar" /></td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>547</td>
<td><img src="image2" alt="Quality Bar" /></td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>547</td>
<td><img src="image3" alt="Quality Bar" /></td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>547</td>
<td><img src="image4" alt="Quality Bar" /></td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>547</td>
<td><img src="image5" alt="Quality Bar" /></td>
</tr>
<tr>
<td>2</td>
<td>O</td>
<td>111</td>
<td><img src="image6" alt="Quality Bar" /></td>
</tr>
<tr>
<td>2</td>
<td>P</td>
<td>111</td>
<td><img src="image7" alt="Quality Bar" /></td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>111</td>
<td><img src="image8" alt="Quality Bar" /></td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>111</td>
<td><img src="image9" alt="Quality Bar" /></td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>111</td>
<td><img src="image10" alt="Quality Bar" /></td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>111</td>
<td><img src="image11" alt="Quality Bar" /></td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>111</td>
<td><img src="image12" alt="Quality Bar" /></td>
</tr>
</tbody>
</table>
2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 57953 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called 60 KDA GROEL.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>524</td>
<td>Total</td>
<td>C 3855</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N 2397</td>
<td>O 665</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>S 773</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

- Molecule 2 is a protein called CAPSID ASSEMBLY PROTEIN GP31.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>O</td>
<td>83</td>
<td>Total</td>
<td>C 641</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N 417</td>
<td>O 106</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>S 114</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

Continued on next page...
## Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>P</td>
<td>83</td>
<td>Total C N O S 641 417 106 114 4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>83</td>
<td>Total C N O S 641 417 106 114 4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>83</td>
<td>Total C N O S 641 417 106 114 4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>83</td>
<td>Total C N O S 641 417 106 114 4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>83</td>
<td>Total C N O S 641 417 106 114 4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>83</td>
<td>Total C N O S 641 417 106 114 4</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-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 outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: 60 KDA GROEL

Chain A:

Chain B:
• Molecule 1: 60 KDA GROEL

Chain C:

• Molecule 1: 60 KDA GROEL

Chain D:

• Molecule 1: 60 KDA GROEL

Chain E:
• Molecule 1: 60 KDA GROEL

Chain F:

• Molecule 1: 60 KDA GROEL

Chain G:
- Molecule 1: 60 KDA GROEL

Chain H:

- Molecule 1: 60 KDA GROEL

Chain I:
• Molecule 1: 60 KDA GROEL

Chain J:

... (diagram showing amino acid identities and conservation)

• Molecule 1: 60 KDA GROEL

Chain K:

... (diagram showing amino acid identities and conservation)

• Molecule 1: 60 KDA GROEL

Chain L:

... (diagram showing amino acid identities and conservation)
• Molecule 1: 60 KDA GROEL

Chain M:

• Molecule 1: 60 KDA GROEL

Chain N:
• Molecule 2: CAPSID ASSEMBLY PROTEIN GP31

Chain O:

• Molecule 2: CAPSID ASSEMBLY PROTEIN GP31

Chain P:

• Molecule 2: CAPSID ASSEMBLY PROTEIN GP31

Chain Q:

• Molecule 2: CAPSID ASSEMBLY PROTEIN GP31

Chain R:

• Molecule 2: CAPSID ASSEMBLY PROTEIN GP31

Chain S:
• Molecule 2: CAPSID ASSEMBLY PROTEIN GP31

Chain T:

• Molecule 2: CAPSID ASSEMBLY PROTEIN GP31

Chain U:
## 4 Experimental information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reconstruction method</td>
<td>SINGLE PARTICLE</td>
<td>Depositor</td>
</tr>
<tr>
<td>Imposed symmetry</td>
<td>POINT, D7</td>
<td>Depositor</td>
</tr>
<tr>
<td>Number of particles used</td>
<td>10300</td>
<td>Depositor</td>
</tr>
<tr>
<td>Resolution determination method</td>
<td>Not provided</td>
<td>Depositor</td>
</tr>
<tr>
<td>CTF correction method</td>
<td>FULL CORRECTION ON 2D CLASS AVERAGES</td>
<td>Depositor</td>
</tr>
<tr>
<td>Microscope</td>
<td>FEI TECNAI F20</td>
<td>Depositor</td>
</tr>
<tr>
<td>Voltage (kV)</td>
<td>200</td>
<td>Depositor</td>
</tr>
<tr>
<td>Electron dose (e⁻/Å²)</td>
<td>15</td>
<td>Depositor</td>
</tr>
<tr>
<td>Minimum defocus (nm)</td>
<td>1300</td>
<td>Depositor</td>
</tr>
<tr>
<td>Maximum defocus (nm)</td>
<td>3300</td>
<td>Depositor</td>
</tr>
<tr>
<td>Magnification</td>
<td>50000</td>
<td>Depositor</td>
</tr>
<tr>
<td>Image detector</td>
<td>KODAK SO-163 FILM</td>
<td>Depositor</td>
</tr>
</tbody>
</table>
5  Model quality

5.1  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 root-mean-square of all Z scores of the bond lengths (or angles).

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Bond lengths</th>
<th>Bond angles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>RMSZ</td>
<td>$</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1.07</td>
<td>3/3882 (0.1%)</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>1.07</td>
<td>3/3882 (0.1%)</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1.07</td>
<td>3/3882 (0.1%)</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>1.07</td>
<td>3/3882 (0.1%)</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1.07</td>
<td>3/3882 (0.1%)</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>1.07</td>
<td>3/3882 (0.1%)</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1.07</td>
<td>3/3882 (0.1%)</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>0.68</td>
<td>1/3806 (0.0%)</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>0.69</td>
<td>1/3806 (0.0%)</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>0.69</td>
<td>1/3806 (0.0%)</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>0.69</td>
<td>1/3806 (0.0%)</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>0.69</td>
<td>1/3806 (0.0%)</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>0.69</td>
<td>1/3806 (0.0%)</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>0.69</td>
<td>1/3806 (0.0%)</td>
</tr>
<tr>
<td>2</td>
<td>O</td>
<td>0.59</td>
<td>0/657</td>
</tr>
<tr>
<td>2</td>
<td>P</td>
<td>0.59</td>
<td>0/657</td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>0.59</td>
<td>0/657</td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>0.59</td>
<td>0/657</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>0.59</td>
<td>0/657</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>0.59</td>
<td>0/657</td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>0.59</td>
<td>0/657</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>0.88</td>
<td>28/58415 (0.0%)</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>#Chirality outliers</th>
<th>#Planarity outliers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>#Chirality outliers</th>
<th>#Planarity outliers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>0</td>
<td>14</td>
</tr>
</tbody>
</table>

All (28) bond length outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>F</td>
<td>191</td>
<td>GLU</td>
<td>C-N</td>
<td>-42.62</td>
<td>0.56</td>
<td>1.33</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>191</td>
<td>GLU</td>
<td>C-N</td>
<td>-42.60</td>
<td>0.56</td>
<td>1.33</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>191</td>
<td>GLU</td>
<td>C-N</td>
<td>-42.60</td>
<td>0.56</td>
<td>1.33</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>191</td>
<td>GLU</td>
<td>C-N</td>
<td>-42.60</td>
<td>0.56</td>
<td>1.33</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>191</td>
<td>GLU</td>
<td>C-N</td>
<td>-42.59</td>
<td>0.56</td>
<td>1.33</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>191</td>
<td>GLU</td>
<td>C-N</td>
<td>-42.59</td>
<td>0.56</td>
<td>1.33</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>191</td>
<td>GLU</td>
<td>C-N</td>
<td>-42.57</td>
<td>0.56</td>
<td>1.33</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>136</td>
<td>VAL</td>
<td>C-N</td>
<td>26.70</td>
<td>1.84</td>
<td>1.34</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>136</td>
<td>VAL</td>
<td>C-N</td>
<td>26.68</td>
<td>1.84</td>
<td>1.34</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>136</td>
<td>VAL</td>
<td>C-N</td>
<td>26.68</td>
<td>1.84</td>
<td>1.34</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>136</td>
<td>VAL</td>
<td>C-N</td>
<td>26.67</td>
<td>1.84</td>
<td>1.34</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>136</td>
<td>VAL</td>
<td>C-N</td>
<td>26.67</td>
<td>1.84</td>
<td>1.34</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>136</td>
<td>VAL</td>
<td>C-N</td>
<td>26.66</td>
<td>1.84</td>
<td>1.34</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>136</td>
<td>VAL</td>
<td>C-N</td>
<td>26.66</td>
<td>1.84</td>
<td>1.34</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.32</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.30</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.29</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.27</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.26</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.26</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.23</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.16</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.16</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.16</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.15</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.13</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.13</td>
<td>1.31</td>
<td>1.25</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>F</td>
<td>76</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>5.13</td>
<td>1.31</td>
<td>1.25</td>
</tr>
</tbody>
</table>

All (301) bond angle outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>N</td>
<td>373</td>
<td>ALA</td>
<td>O-C-N</td>
<td>-33.61</td>
<td>66.06</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>373</td>
<td>ALA</td>
<td>O-C-N</td>
<td>-33.61</td>
<td>66.06</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>373</td>
<td>ALA</td>
<td>O-C-N</td>
<td>-33.60</td>
<td>66.07</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>373</td>
<td>ALA</td>
<td>O-C-N</td>
<td>-33.60</td>
<td>66.07</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>373</td>
<td>ALA</td>
<td>O-C-N</td>
<td>-33.60</td>
<td>66.08</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>373</td>
<td>ALA</td>
<td>O-C-N</td>
<td>-33.58</td>
<td>66.11</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-26.40</td>
<td>63.40</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-26.40</td>
<td>63.40</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-26.39</td>
<td>63.41</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-26.39</td>
<td>63.42</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-26.39</td>
<td>63.42</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-26.39</td>
<td>63.42</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-26.38</td>
<td>63.44</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.57</td>
<td>68.61</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.57</td>
<td>68.61</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.56</td>
<td>68.62</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.56</td>
<td>68.62</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.56</td>
<td>68.62</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.55</td>
<td>68.64</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.55</td>
<td>68.64</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.55</td>
<td>68.64</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.55</td>
<td>68.64</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.55</td>
<td>68.64</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.55</td>
<td>68.64</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-25.55</td>
<td>68.64</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>373</td>
<td>ALA</td>
<td>O-C-N</td>
<td>-23.33</td>
<td>162.87</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>373</td>
<td>ALA</td>
<td>O-C-N</td>
<td>-23.33</td>
<td>162.87</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>191</td>
<td>GLU</td>
<td>C-N-CA</td>
<td>-22.34</td>
<td>75.38</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>191</td>
<td>GLU</td>
<td>C-N-CA</td>
<td>-22.34</td>
<td>75.39</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>191</td>
<td>GLU</td>
<td>C-N-CA</td>
<td>-22.33</td>
<td>75.40</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>191</td>
<td>GLU</td>
<td>C-N-CA</td>
<td>-22.33</td>
<td>75.41</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>191</td>
<td>GLU</td>
<td>C-N-CA</td>
<td>-22.33</td>
<td>75.41</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>191</td>
<td>GLU</td>
<td>C-N-CA</td>
<td>-22.33</td>
<td>75.41</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>191</td>
<td>GLU</td>
<td>C-N-CA</td>
<td>-22.33</td>
<td>75.41</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-21.43</td>
<td>77.30</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-21.43</td>
<td>77.31</td>
<td>122.30</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-21.42</td>
<td>77.31</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-21.42</td>
<td>77.32</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-21.42</td>
<td>77.32</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-21.41</td>
<td>77.33</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>373</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-21.41</td>
<td>77.33</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>191</td>
<td>GLU</td>
<td>CA-C-N</td>
<td>-20.16</td>
<td>75.89</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>191</td>
<td>GLU</td>
<td>CA-C-N</td>
<td>-20.15</td>
<td>75.89</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>191</td>
<td>GLU</td>
<td>CA-C-N</td>
<td>-20.15</td>
<td>75.90</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>191</td>
<td>GLU</td>
<td>CA-C-N</td>
<td>-20.14</td>
<td>75.91</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>191</td>
<td>GLU</td>
<td>CA-C-N</td>
<td>-20.14</td>
<td>75.92</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>191</td>
<td>GLU</td>
<td>CA-C-N</td>
<td>-20.14</td>
<td>75.92</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>191</td>
<td>GLU</td>
<td>CA-C-N</td>
<td>-20.12</td>
<td>75.95</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>191</td>
<td>GLU</td>
<td>O-C-N</td>
<td>-19.28</td>
<td>90.42</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>191</td>
<td>GLU</td>
<td>O-C-N</td>
<td>-19.28</td>
<td>90.43</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>191</td>
<td>GLU</td>
<td>O-C-N</td>
<td>-19.27</td>
<td>90.45</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>191</td>
<td>GLU</td>
<td>O-C-N</td>
<td>-19.26</td>
<td>90.46</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>191</td>
<td>GLU</td>
<td>O-C-N</td>
<td>-19.25</td>
<td>90.47</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>191</td>
<td>GLU</td>
<td>O-C-N</td>
<td>-19.25</td>
<td>90.52</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>191</td>
<td>GLU</td>
<td>O-C-N</td>
<td>-19.22</td>
<td>90.52</td>
<td>123.20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-11.96</td>
<td>114.32</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-11.95</td>
<td>114.33</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-11.94</td>
<td>114.33</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-11.93</td>
<td>114.34</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-11.92</td>
<td>114.34</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-11.91</td>
<td>114.35</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-11.90</td>
<td>114.35</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>11.82</td>
<td>126.21</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>11.78</td>
<td>126.19</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>11.78</td>
<td>126.19</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>11.77</td>
<td>126.18</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>11.77</td>
<td>126.18</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>11.74</td>
<td>126.17</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>11.70</td>
<td>126.15</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>136</td>
<td>VAL</td>
<td>CA-C-N</td>
<td>-11.26</td>
<td>85.57</td>
<td>117.10</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>136</td>
<td>VAL</td>
<td>CA-C-N</td>
<td>-11.26</td>
<td>85.56</td>
<td>117.10</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>136</td>
<td>VAL</td>
<td>CA-C-N</td>
<td>-11.26</td>
<td>85.58</td>
<td>117.10</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>136</td>
<td>VAL</td>
<td>CA-C-N</td>
<td>-11.25</td>
<td>85.59</td>
<td>117.10</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>136</td>
<td>VAL</td>
<td>CA-C-N</td>
<td>-11.25</td>
<td>85.60</td>
<td>117.10</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-11.25</td>
<td>93.70</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>136</td>
<td>VAL</td>
<td>CA-C-N</td>
<td>-11.25</td>
<td>85.61</td>
<td>117.10</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>136</td>
<td>VAL</td>
<td>CA-C-N</td>
<td>-11.24</td>
<td>85.61</td>
<td>117.10</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-11.24</td>
<td>93.72</td>
<td>116.20</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-11.24</td>
<td>93.73</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-11.23</td>
<td>93.73</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-11.23</td>
<td>93.73</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-11.23</td>
<td>93.74</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>373</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-11.22</td>
<td>93.76</td>
<td>116.20</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.99</td>
<td>126.39</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.99</td>
<td>126.39</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>136</td>
<td>VAL</td>
<td>C-N-CA</td>
<td>-8.98</td>
<td>84.28</td>
<td>122.00</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>136</td>
<td>VAL</td>
<td>C-N-CA</td>
<td>-8.98</td>
<td>84.30</td>
<td>122.00</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>136</td>
<td>VAL</td>
<td>C-N-CA</td>
<td>-8.97</td>
<td>84.31</td>
<td>122.00</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>136</td>
<td>VAL</td>
<td>C-N-CA</td>
<td>-8.97</td>
<td>84.31</td>
<td>122.00</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>136</td>
<td>VAL</td>
<td>C-N-CA</td>
<td>-8.97</td>
<td>84.31</td>
<td>122.00</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>136</td>
<td>VAL</td>
<td>C-N-CA</td>
<td>-8.97</td>
<td>84.31</td>
<td>122.00</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>136</td>
<td>VAL</td>
<td>C-N-CA</td>
<td>-8.97</td>
<td>84.32</td>
<td>122.00</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.97</td>
<td>126.37</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.95</td>
<td>126.35</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.94</td>
<td>126.35</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.93</td>
<td>126.34</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.92</td>
<td>126.33</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.79</td>
<td>126.21</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.78</td>
<td>126.20</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.77</td>
<td>126.20</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.75</td>
<td>126.18</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.75</td>
<td>126.17</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.74</td>
<td>126.17</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>523</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>8.74</td>
<td>126.16</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.72</td>
<td>115.94</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.72</td>
<td>115.94</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.67</td>
<td>115.97</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.64</td>
<td>115.98</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.61</td>
<td>116.00</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.57</td>
<td>116.01</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.55</td>
<td>116.02</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.60</td>
<td>124.10</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.60</td>
<td>124.10</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.54</td>
<td>124.07</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.54</td>
<td>124.07</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.54</td>
<td>124.07</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.51</td>
<td>124.06</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>197</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.49</td>
<td>124.04</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.15</td>
<td>124.74</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.14</td>
<td>124.72</td>
<td>118.30</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>L</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.13</td>
<td>124.72</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.13</td>
<td>124.72</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.12</td>
<td>124.71</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.12</td>
<td>124.71</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.11</td>
<td>124.70</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.10</td>
<td>124.69</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.10</td>
<td>124.69</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.08</td>
<td>124.67</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.08</td>
<td>124.67</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.07</td>
<td>124.66</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.07</td>
<td>124.66</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>7.07</td>
<td>124.66</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.85</td>
<td>124.46</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.85</td>
<td>124.46</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.83</td>
<td>124.45</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.83</td>
<td>124.44</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.82</td>
<td>124.44</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.82</td>
<td>124.43</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.81</td>
<td>124.43</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.76</td>
<td>124.38</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.75</td>
<td>124.38</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.74</td>
<td>124.37</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.74</td>
<td>124.37</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.73</td>
<td>124.36</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.71</td>
<td>124.34</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>115</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.71</td>
<td>124.34</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.67</td>
<td>124.31</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.66</td>
<td>124.29</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.66</td>
<td>124.29</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.66</td>
<td>124.29</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.65</td>
<td>124.29</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.65</td>
<td>124.29</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.65</td>
<td>124.28</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.64</td>
<td>124.28</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.64</td>
<td>124.28</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.64</td>
<td>124.27</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.64</td>
<td>124.27</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.63</td>
<td>124.27</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.62</td>
<td>124.26</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>64</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.61</td>
<td>124.25</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.54</td>
<td>124.19</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.53</td>
<td>124.18</td>
<td>118.30</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.51</td>
<td>124.16</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.50</td>
<td>124.15</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.50</td>
<td>124.15</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.50</td>
<td>124.15</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>T</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.50</td>
<td>124.15</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.50</td>
<td>124.15</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.49</td>
<td>124.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.49</td>
<td>124.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.49</td>
<td>124.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.49</td>
<td>124.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.49</td>
<td>124.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.49</td>
<td>124.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.49</td>
<td>124.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.48</td>
<td>124.13</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.48</td>
<td>124.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.48</td>
<td>124.13</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.48</td>
<td>124.13</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.48</td>
<td>124.13</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.48</td>
<td>124.13</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.47</td>
<td>124.12</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.47</td>
<td>124.12</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>435</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.47</td>
<td>124.12</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.45</td>
<td>124.10</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.45</td>
<td>124.10</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-6.44</td>
<td>117.08</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-6.44</td>
<td>117.08</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.43</td>
<td>124.09</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.42</td>
<td>124.08</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-6.42</td>
<td>117.09</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-6.38</td>
<td>117.11</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-6.38</td>
<td>117.11</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-6.37</td>
<td>117.11</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>334</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.33</td>
<td>124.00</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>334</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.33</td>
<td>124.00</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>6.33</td>
<td>123.47</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>6.33</td>
<td>123.46</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>334</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.31</td>
<td>123.98</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>6.30</td>
<td>123.45</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>334</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.30</td>
<td>123.97</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-6.28</td>
<td>117.16</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>6.27</td>
<td>123.44</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>334</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.27</td>
<td>123.94</td>
<td>118.30</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>334</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.27</td>
<td>123.94</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>6.27</td>
<td>123.43</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>6.26</td>
<td>123.43</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>334</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>6.26</td>
<td>123.93</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>268</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>6.23</td>
<td>123.41</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.93</td>
<td>123.64</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.92</td>
<td>123.63</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.90</td>
<td>123.61</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.90</td>
<td>123.61</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.89</td>
<td>123.60</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.87</td>
<td>123.59</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.86</td>
<td>123.57</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>136</td>
<td>VAL</td>
<td>O-C-N</td>
<td>-5.55</td>
<td>110.56</td>
<td>121.10</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>136</td>
<td>VAL</td>
<td>O-C-N</td>
<td>-5.55</td>
<td>110.56</td>
<td>121.10</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>136</td>
<td>VAL</td>
<td>O-C-N</td>
<td>-5.54</td>
<td>110.57</td>
<td>121.10</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>136</td>
<td>VAL</td>
<td>O-C-N</td>
<td>-5.54</td>
<td>110.58</td>
<td>121.10</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>136</td>
<td>VAL</td>
<td>O-C-N</td>
<td>-5.54</td>
<td>110.58</td>
<td>121.10</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>136</td>
<td>VAL</td>
<td>O-C-N</td>
<td>-5.53</td>
<td>110.59</td>
<td>121.10</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>136</td>
<td>VAL</td>
<td>O-C-N</td>
<td>-5.53</td>
<td>110.59</td>
<td>121.10</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>136</td>
<td>VAL</td>
<td>O-C-N</td>
<td>-5.53</td>
<td>110.59</td>
<td>121.10</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>188</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.53</td>
<td>123.28</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>188</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.52</td>
<td>123.27</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>188</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.52</td>
<td>123.27</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>268</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>5.52</td>
<td>131.32</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>268</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>5.51</td>
<td>131.32</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>268</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>5.51</td>
<td>131.31</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>268</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>5.51</td>
<td>131.31</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>188</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.50</td>
<td>123.25</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>268</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>5.50</td>
<td>131.29</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>188</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.49</td>
<td>123.24</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>268</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>5.49</td>
<td>131.28</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>188</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.48</td>
<td>123.23</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.48</td>
<td>123.23</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>268</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>5.47</td>
<td>131.26</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>188</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.47</td>
<td>123.22</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.46</td>
<td>123.22</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.46</td>
<td>123.21</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.46</td>
<td>123.21</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.45</td>
<td>123.20</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.44</td>
<td>123.20</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.44</td>
<td>123.19</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.43</td>
<td>123.19</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>247</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.42</td>
<td>127.76</td>
<td>115.30</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.40</td>
<td>123.16</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>247</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.40</td>
<td>127.72</td>
<td>115.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.40</td>
<td>123.16</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.40</td>
<td>123.16</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>247</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.40</td>
<td>127.71</td>
<td>115.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>247</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.39</td>
<td>127.70</td>
<td>115.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>247</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.39</td>
<td>127.70</td>
<td>115.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>247</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.39</td>
<td>127.70</td>
<td>115.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>247</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.39</td>
<td>127.70</td>
<td>115.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.38</td>
<td>123.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.38</td>
<td>123.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.37</td>
<td>123.13</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.30</td>
<td>123.07</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.30</td>
<td>123.07</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.30</td>
<td>123.07</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.30</td>
<td>123.07</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.30</td>
<td>123.07</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>224</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.29</td>
<td>123.06</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>224</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.29</td>
<td>123.06</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.28</td>
<td>123.05</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.28</td>
<td>123.05</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>224</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.28</td>
<td>123.05</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.28</td>
<td>123.05</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.27</td>
<td>123.05</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>224</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.27</td>
<td>123.04</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.27</td>
<td>123.04</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.27</td>
<td>123.04</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.26</td>
<td>123.03</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>283</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.26</td>
<td>123.03</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>224</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.24</td>
<td>123.02</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.24</td>
<td>123.01</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>18</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.23</td>
<td>127.33</td>
<td>115.30</td>
</tr>
<tr>
<td>2</td>
<td>P</td>
<td>18</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.23</td>
<td>127.33</td>
<td>115.30</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>18</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.23</td>
<td>127.33</td>
<td>115.30</td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>18</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.23</td>
<td>127.32</td>
<td>115.30</td>
</tr>
<tr>
<td>2</td>
<td>O</td>
<td>18</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.22</td>
<td>127.32</td>
<td>115.30</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>18</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.22</td>
<td>127.31</td>
<td>115.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>224</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.22</td>
<td>123.00</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>224</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.22</td>
<td>122.99</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>18</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.22</td>
<td>127.30</td>
<td>115.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.16</td>
<td>122.94</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.15</td>
<td>122.94</td>
<td>118.30</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.14</td>
<td>122.93</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.14</td>
<td>122.93</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.12</td>
<td>122.91</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.12</td>
<td>122.90</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>253</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.10</td>
<td>122.89</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>359</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.10</td>
<td>122.89</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>359</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.09</td>
<td>122.88</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>359</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.09</td>
<td>122.88</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>359</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.07</td>
<td>122.86</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>359</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.06</td>
<td>122.86</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>359</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.05</td>
<td>122.85</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>359</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.04</td>
<td>122.83</td>
<td>118.30</td>
</tr>
</tbody>
</table>

There are no chirality outliers.

All (14) planarity outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>191</td>
<td>GLU</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>191</td>
<td>GLU</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>191</td>
<td>GLU</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>191</td>
<td>GLU</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>191</td>
<td>GLU</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>191</td>
<td>GLU</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>191</td>
<td>GLU</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>373</td>
<td>ALA</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>373</td>
<td>ALA</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>373</td>
<td>ALA</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>373</td>
<td>ALA</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>373</td>
<td>ALA</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>373</td>
<td>ALA</td>
<td>Mainchain</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>373</td>
<td>ALA</td>
<td>Mainchain</td>
</tr>
</tbody>
</table>

5.2 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 the 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 within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Non-H</th>
<th>H(model)</th>
<th>H(added)</th>
<th>Clashes</th>
<th>Symm-Clashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>3855</td>
<td>0</td>
<td>3971</td>
<td>193</td>
<td>0</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Non-H</th>
<th>H(model)</th>
<th>H(added)</th>
<th>Clashes</th>
<th>Symm-Clashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B</td>
<td>3855</td>
<td>0</td>
<td>3971</td>
<td>194</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>3855</td>
<td>0</td>
<td>3971</td>
<td>197</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>3855</td>
<td>0</td>
<td>3971</td>
<td>189</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>3855</td>
<td>0</td>
<td>3971</td>
<td>199</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>3855</td>
<td>0</td>
<td>3971</td>
<td>196</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>3855</td>
<td>0</td>
<td>3971</td>
<td>198</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>3783</td>
<td>0</td>
<td>3916</td>
<td>226</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>3783</td>
<td>0</td>
<td>3916</td>
<td>233</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>3783</td>
<td>0</td>
<td>3916</td>
<td>229</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>3783</td>
<td>0</td>
<td>3916</td>
<td>234</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>3783</td>
<td>0</td>
<td>3916</td>
<td>228</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>3783</td>
<td>0</td>
<td>3916</td>
<td>236</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>3783</td>
<td>0</td>
<td>3916</td>
<td>234</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>O</td>
<td>641</td>
<td>0</td>
<td>652</td>
<td>60</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>P</td>
<td>641</td>
<td>0</td>
<td>652</td>
<td>61</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>641</td>
<td>0</td>
<td>652</td>
<td>61</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>641</td>
<td>0</td>
<td>652</td>
<td>61</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>641</td>
<td>0</td>
<td>652</td>
<td>60</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>641</td>
<td>0</td>
<td>652</td>
<td>60</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>641</td>
<td>0</td>
<td>652</td>
<td>61</td>
<td>0</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>57953</td>
<td>0</td>
<td>59773</td>
<td>2885</td>
<td>0</td>
</tr>
</tbody>
</table>

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 25.

All (2885) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:L:138:CYS:CB</td>
<td>1:L:410:GLY:HA2</td>
<td>1.38</td>
<td>1.52</td>
</tr>
<tr>
<td>1:C:464:VAL:CG2</td>
<td>1:C:467:ASN:HD22</td>
<td>1.27</td>
<td>1.48</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:D:464:VAL:HG21</td>
<td>1:K:467:ASN:ND2</td>
<td>1.18</td>
<td>1.46</td>
</tr>
<tr>
<td>1:C:464:VAL:CB</td>
<td>1:J:467:ASN:HD22</td>
<td>1.29</td>
<td>1.45</td>
</tr>
<tr>
<td>1:C:464:VAL:HG21</td>
<td>1:J:467:ASN:ND2</td>
<td>1.18</td>
<td>1.45</td>
</tr>
<tr>
<td>1:C:464:VAL:CG2</td>
<td>1:J:467:ASN:ND2</td>
<td>1.80</td>
<td>1.45</td>
</tr>
<tr>
<td>1:B:146:GLN:NE2</td>
<td>1:B:494:LEU:HD11</td>
<td>1.30</td>
<td>1.44</td>
</tr>
<tr>
<td>1:B:464:VAL:CB</td>
<td>1:I:467:ASN:HD22</td>
<td>1.29</td>
<td>1.43</td>
</tr>
<tr>
<td>1:D:464:VAL:CG2</td>
<td>1:K:467:ASN:ND2</td>
<td>1.80</td>
<td>1.43</td>
</tr>
<tr>
<td>1:E:464:VAL:CB</td>
<td>1:L:467:ASN:HD22</td>
<td>1.29</td>
<td>1.43</td>
</tr>
<tr>
<td>1:C:146:GLN:NE2</td>
<td>1:C:494:LEU:HD11</td>
<td>1.30</td>
<td>1.42</td>
</tr>
<tr>
<td>1:B:464:VAL:HG21</td>
<td>1:I:467:ASN:ND2</td>
<td>1.18</td>
<td>1.41</td>
</tr>
<tr>
<td>1:B:464:VAL:CG2</td>
<td>1:E:467:ASN:ND2</td>
<td>1.80</td>
<td>1.39</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:D:146:GLN:NE2</td>
<td>1:D:494:LEU:HD11</td>
<td>1.30</td>
<td>1.39</td>
</tr>
<tr>
<td>1:K:150:ILE:CD1</td>
<td>1:K:494:LEU:O</td>
<td>1.71</td>
<td>1.36</td>
</tr>
<tr>
<td>1:I:150:ILE:CD1</td>
<td>1:I:494:LEU:O</td>
<td>1.71</td>
<td>1.35</td>
</tr>
<tr>
<td>1:L:150:ILE:CD1</td>
<td>1:L:494:LEU:O</td>
<td>1.71</td>
<td>1.34</td>
</tr>
<tr>
<td>1:E:136:VAL:C</td>
<td>1:E:137:PRO:N</td>
<td>1.84</td>
<td>1.31</td>
</tr>
<tr>
<td>1:D:136:VAL:C</td>
<td>1:D:137:PRO:N</td>
<td>1.84</td>
<td>1.30</td>
</tr>
<tr>
<td>1:C:136:VAL:C</td>
<td>1:C:137:PRO:N</td>
<td>1.84</td>
<td>1.29</td>
</tr>
<tr>
<td>1:D:203:TYR:OH</td>
<td>1:E:286:LYS:HD3</td>
<td>1.31</td>
<td>1.27</td>
</tr>
<tr>
<td>1:B:203:TYR:OH</td>
<td>1:C:286:LYS:HD3</td>
<td>1.31</td>
<td>1.27</td>
</tr>
<tr>
<td>1:B:136:VAL:C</td>
<td>1:B:137:PRO:N</td>
<td>1.84</td>
<td>1.25</td>
</tr>
<tr>
<td>1:C:203:TYR:OH</td>
<td>1:D:286:LYS:HD3</td>
<td>1.31</td>
<td>1.24</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:464:VAL:CB</td>
<td>1:N:467:ASN:ND2</td>
<td>1.98</td>
<td>1.21</td>
</tr>
<tr>
<td>1:D:464:VAL:CB</td>
<td>1:K:467:ASN:ND2</td>
<td>1.98</td>
<td>1.20</td>
</tr>
<tr>
<td>1:C:18:ARG:CB</td>
<td>1:C:18:ARG:HH11</td>
<td>1.55</td>
<td>1.18</td>
</tr>
<tr>
<td>1:B:18:ARG:CB</td>
<td>1:B:18:ARG:HH11</td>
<td>1.55</td>
<td>1.18</td>
</tr>
<tr>
<td>1:H:138:CYS:CB</td>
<td>1:H:410:GLY:CA</td>
<td>2.08</td>
<td>1.18</td>
</tr>
<tr>
<td>1:M:138:CYS:CB</td>
<td>1:M:410:GLY:CA</td>
<td>2.08</td>
<td>1.17</td>
</tr>
<tr>
<td>1:L:147:VAL:HG23</td>
<td>1:L:496:PRO:HG3</td>
<td>1.21</td>
<td>1.17</td>
</tr>
<tr>
<td>1:J:516:THR:O</td>
<td>1:K:36:ARG:NH1</td>
<td>1.78</td>
<td>1.17</td>
</tr>
<tr>
<td>1:H:516:THR:O</td>
<td>1:I:36:ARG:NH1</td>
<td>1.78</td>
<td>1.17</td>
</tr>
<tr>
<td>1:J:516:THR:O</td>
<td>1:J:36:ARG:NH1</td>
<td>1.78</td>
<td>1.17</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:K:516:THR:O</td>
<td>1:L:36:ARG:NH1</td>
<td>1.78</td>
<td>1.16</td>
</tr>
<tr>
<td>1:L:138:CYS:CB</td>
<td>1:L:410:GLY:CA</td>
<td>2.08</td>
<td>1.16</td>
</tr>
<tr>
<td>1:M:516:THR:O</td>
<td>1:N:36:ARG:NH1</td>
<td>1.78</td>
<td>1.16</td>
</tr>
<tr>
<td>1:D:172:GLU:OE2</td>
<td>1:D:350:ARG:HG3</td>
<td>1.44</td>
<td>1.15</td>
</tr>
<tr>
<td>1:M:147:VAL:HG23</td>
<td>1:M:496:PRO:HG3</td>
<td>1.21</td>
<td>1.15</td>
</tr>
<tr>
<td>1:K:138:CYS:CB</td>
<td>1:K:410:GLY:CA</td>
<td>2.08</td>
<td>1.14</td>
</tr>
<tr>
<td>1:L:516:THR:O</td>
<td>1:M:36:ARG:NH1</td>
<td>1.78</td>
<td>1.14</td>
</tr>
<tr>
<td>1:J:147:VAL:HG23</td>
<td>1:J:496:PRO:HG3</td>
<td>1.20</td>
<td>1.11</td>
</tr>
<tr>
<td>1:B:464:VAL:CB</td>
<td>1:I:467:ASN:ND2</td>
<td>1.98</td>
<td>1.11</td>
</tr>
</tbody>
</table>
### Interatomic distance (Å) and Clash overlap (Å)

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:E:197:ARG:HD3</td>
<td>1:E:277:LYS:HB2</td>
<td>1.30</td>
<td>1.10</td>
</tr>
<tr>
<td>1:C:18:ARG:NH1</td>
<td>1:C:18:ARG:HB3</td>
<td>1.68</td>
<td>1.09</td>
</tr>
<tr>
<td>1:E:18:ARG:NH1</td>
<td>1:E:18:ARG:HB3</td>
<td>1.68</td>
<td>1.08</td>
</tr>
<tr>
<td>1:F:18:ARG:NH1</td>
<td>1:F:18:ARG:HB3</td>
<td>1.68</td>
<td>1.08</td>
</tr>
<tr>
<td>1:N:18:ARG:HB3</td>
<td>1:N:18:ARG:NH1</td>
<td>1.68</td>
<td>1.08</td>
</tr>
<tr>
<td>1:A:18:ARG:HB3</td>
<td>1:A:18:ARG:NH1</td>
<td>1.68</td>
<td>1.08</td>
</tr>
<tr>
<td>1:M:18:ARG:HB3</td>
<td>1:M:18:ARG:NH1</td>
<td>1.68</td>
<td>1.08</td>
</tr>
<tr>
<td>1:C:172:GLU:OE2</td>
<td>1:C:350:ARG:CG</td>
<td>2.03</td>
<td>1.07</td>
</tr>
<tr>
<td>1:H:18:ARG:HB3</td>
<td>1:H:18:ARG:NH1</td>
<td>1.68</td>
<td>1.07</td>
</tr>
<tr>
<td>1:B:197:ARG:HD3</td>
<td>1:B:277:LYS:HB2</td>
<td>1.30</td>
<td>1.07</td>
</tr>
<tr>
<td>1:B:204:PHE:HE2</td>
<td>1:B:266:THR:HG21</td>
<td>1.20</td>
<td>1.07</td>
</tr>
<tr>
<td>1:G:18:ARG:NH1</td>
<td>1:G:18:ARG:HB3</td>
<td>1.68</td>
<td>1.07</td>
</tr>
<tr>
<td>1:I:18:ARG:HB3</td>
<td>1:I:18:ARG:NH1</td>
<td>1.68</td>
<td>1.07</td>
</tr>
<tr>
<td>1:K:147:VAL:HG23</td>
<td>1:K:496:PRO:CG</td>
<td>1.86</td>
<td>1.06</td>
</tr>
<tr>
<td>1:D:197:ARG:HD3</td>
<td>1:D:277:LYS:HB2</td>
<td>1.30</td>
<td>1.07</td>
</tr>
<tr>
<td>1:C:204:PHE:HE2</td>
<td>1:C:266:THR:HG21</td>
<td>1.20</td>
<td>1.07</td>
</tr>
<tr>
<td>1:D:18:ARG:HB3</td>
<td>1:D:18:ARG:NH1</td>
<td>1.68</td>
<td>1.07</td>
</tr>
<tr>
<td>1:J:18:ARG:HB3</td>
<td>1:J:18:ARG:NH1</td>
<td>1.68</td>
<td>1.07</td>
</tr>
<tr>
<td>1:D:172:GLU:OE2</td>
<td>1:D:350:ARG:CG</td>
<td>2.03</td>
<td>1.06</td>
</tr>
<tr>
<td>1:K:18:ARG:NH1</td>
<td>1:K:18:ARG:HB3</td>
<td>1.68</td>
<td>1.06</td>
</tr>
<tr>
<td>1:B:18:ARG:HB3</td>
<td>1:B:18:ARG:NH1</td>
<td>1.68</td>
<td>1.06</td>
</tr>
<tr>
<td>1:B:172:GLU:OE2</td>
<td>1:B:350:ARG:CG</td>
<td>2.03</td>
<td>1.06</td>
</tr>
<tr>
<td>1:K:147:VAL:HG23</td>
<td>1:K:496:PRO:CG</td>
<td>1.86</td>
<td>1.06</td>
</tr>
<tr>
<td>1:B:146:GLN:HE21</td>
<td>1:B:494:LEU:CD1</td>
<td>1.69</td>
<td>1.06</td>
</tr>
<tr>
<td>1:E:464:VAL:HG11</td>
<td>1:L:467:ASN:ND2</td>
<td>1.70</td>
<td>1.06</td>
</tr>
<tr>
<td>1:L:147:VAL:HG23</td>
<td>1:L:496:PRO:CG</td>
<td>1.86</td>
<td>1.06</td>
</tr>
<tr>
<td>1:G:204:PHE:HE2</td>
<td>1:G:266:THR:HG21</td>
<td>1.20</td>
<td>1.06</td>
</tr>
<tr>
<td>1:I:147:VAL:HG23</td>
<td>1:I:496:PRO:CG</td>
<td>1.86</td>
<td>1.06</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:K:18:ARG:HB3</td>
<td>1:K:18:ARG:HH11</td>
<td>0.89</td>
<td>1.06</td>
</tr>
<tr>
<td>1:D:464:VAL:HG11</td>
<td>1:K:467:ASN:ND2</td>
<td>1.70</td>
<td>1.06</td>
</tr>
<tr>
<td>1:A:204:PHE:HE2</td>
<td>1:A:266:THR:HG21</td>
<td>1.20</td>
<td>1.06</td>
</tr>
<tr>
<td>1:G:146:GLN:HE21</td>
<td>1:G:494:LEU:CD1</td>
<td>1.69</td>
<td>1.06</td>
</tr>
<tr>
<td>1:J:18:ARG:HH11</td>
<td>1:J:18:ARG:HB3</td>
<td>0.89</td>
<td>1.06</td>
</tr>
<tr>
<td>1:D:172:GLU:OE2</td>
<td>1:D:350:ARG:CD</td>
<td>2.04</td>
<td>1.05</td>
</tr>
<tr>
<td>1:H:147:VAL:HG23</td>
<td>1:H:496:PRO:CG</td>
<td>1.86</td>
<td>1.05</td>
</tr>
<tr>
<td>1:L:18:ARG:HH11</td>
<td>1:L:18:ARG:HB3</td>
<td>0.89</td>
<td>1.05</td>
</tr>
<tr>
<td>1:N:147:VAL:HG23</td>
<td>1:N:496:PRO:CG</td>
<td>1.86</td>
<td>1.05</td>
</tr>
<tr>
<td>1:C:464:VAL:HG11</td>
<td>1:J:467:ASN:ND2</td>
<td>1.70</td>
<td>1.05</td>
</tr>
<tr>
<td>1:C:197:ARG:HD3</td>
<td>1:C:277:LYS:HB2</td>
<td>1.30</td>
<td>1.05</td>
</tr>
<tr>
<td>1:D:146:GLN:HE21</td>
<td>1:D:494:LEU:CD1</td>
<td>1.69</td>
<td>1.05</td>
</tr>
<tr>
<td>1:F:464:VAL:CG1</td>
<td>1:M:467:ASN:ND2</td>
<td>2.18</td>
<td>1.05</td>
</tr>
<tr>
<td>1:J:147:VAL:HG23</td>
<td>1:J:496:PRO:CG</td>
<td>1.86</td>
<td>1.05</td>
</tr>
<tr>
<td>1:M:147:VAL:HG23</td>
<td>1:M:496:PRO:CG</td>
<td>1.86</td>
<td>1.05</td>
</tr>
<tr>
<td>1:C:172:GLU:OE2</td>
<td>1:C:350:ARG:CD</td>
<td>2.04</td>
<td>1.05</td>
</tr>
<tr>
<td>1:E:172:GLU:OE2</td>
<td>1:E:350:ARG:CG</td>
<td>2.03</td>
<td>1.05</td>
</tr>
<tr>
<td>1:M:18:ARG:HB3</td>
<td>1:M:18:ARG:HH11</td>
<td>0.89</td>
<td>1.05</td>
</tr>
<tr>
<td>1:B:464:VAL:HG11</td>
<td>1:I:467:ASN:ND2</td>
<td>1.70</td>
<td>1.05</td>
</tr>
<tr>
<td>1:I:18:ARG:HB3</td>
<td>1:I:18:ARG:HH11</td>
<td>0.89</td>
<td>1.05</td>
</tr>
<tr>
<td>1:G:18:ARG:HH11</td>
<td>1:G:18:ARG:HB3</td>
<td>0.89</td>
<td>1.04</td>
</tr>
<tr>
<td>1:D:461:GLU:OE1</td>
<td>1:K:463:SER:HB2</td>
<td>1.57</td>
<td>1.04</td>
</tr>
<tr>
<td>1:C:146:GLN:HE21</td>
<td>1:C:494:LEU:CD1</td>
<td>1.69</td>
<td>1.04</td>
</tr>
<tr>
<td>1:E:146:GLN:HE21</td>
<td>1:E:494:LEU:CD1</td>
<td>1.69</td>
<td>1.04</td>
</tr>
<tr>
<td>1:N:18:ARG:HH11</td>
<td>1:N:18:ARG:HB3</td>
<td>0.89</td>
<td>1.04</td>
</tr>
<tr>
<td>1:F:461:GLU:OE1</td>
<td>1:M:463:SER:HB2</td>
<td>1.57</td>
<td>1.03</td>
</tr>
<tr>
<td>1:H:18:ARG:HH11</td>
<td>1:H:18:ARG:HB3</td>
<td>0.89</td>
<td>1.03</td>
</tr>
<tr>
<td>1:B:18:ARG:HB3</td>
<td>1:B:18:ARG:HH11</td>
<td>0.89</td>
<td>1.03</td>
</tr>
<tr>
<td>1:D:204:PHE:HE2</td>
<td>1:D:266:THR:HG21</td>
<td>1.20</td>
<td>1.03</td>
</tr>
</tbody>
</table>

Continued on next page...
### Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:E:204:PHE:HE2</td>
<td>1:E:266:THR:HG21</td>
<td>1.20</td>
<td>1.03</td>
</tr>
<tr>
<td>1:C:172:GLU:OE2</td>
<td>1:C:350:ARG:HD2</td>
<td>1.59</td>
<td>1.03</td>
</tr>
<tr>
<td>1:F:18:ARG:HB3</td>
<td>1:F:18:ARG:HH11</td>
<td>0.89</td>
<td>1.03</td>
</tr>
<tr>
<td>1:G:464:VAL:CG1</td>
<td>1:N:467:ASN:ND2</td>
<td>2.18</td>
<td>1.03</td>
</tr>
<tr>
<td>1:C:18:ARG:HB3</td>
<td>1:C:18:ARG:HH11</td>
<td>0.89</td>
<td>1.02</td>
</tr>
<tr>
<td>1:C:461:GLU:OE1</td>
<td>1:J:463:SER:HB2</td>
<td>1.57</td>
<td>1.02</td>
</tr>
<tr>
<td>1:B:461:GLU:OE1</td>
<td>1:J:463:SER:HB2</td>
<td>1.57</td>
<td>1.02</td>
</tr>
<tr>
<td>1:B:172:GLU:OE2</td>
<td>1:B:350:ARG:HD2</td>
<td>1.59</td>
<td>1.02</td>
</tr>
<tr>
<td>1:B:464:VAL:HG21</td>
<td>1:I:467:ASN:CB</td>
<td>1.89</td>
<td>1.02</td>
</tr>
<tr>
<td>1:J:138:CYS:CA</td>
<td>1:J:410:GLY:HA2</td>
<td>1.90</td>
<td>1.02</td>
</tr>
<tr>
<td>1:C:464:VAL:HG21</td>
<td>1:J:467:ASN:CB</td>
<td>1.89</td>
<td>1.02</td>
</tr>
<tr>
<td>1:E:464:VAL:HG21</td>
<td>1:L:467:ASN:CB</td>
<td>1.89</td>
<td>1.02</td>
</tr>
<tr>
<td>1:I:138:CYS:CA</td>
<td>1:I:410:GLY:HA2</td>
<td>1.90</td>
<td>1.01</td>
</tr>
<tr>
<td>1:K:138:CYS:CA</td>
<td>1:K:410:GLY:HA2</td>
<td>1.90</td>
<td>1.01</td>
</tr>
<tr>
<td>1:B:406:ALA:HB2</td>
<td>1:B:496:PRO:HB3</td>
<td>1.40</td>
<td>1.01</td>
</tr>
<tr>
<td>1:E:18:ARG:HH11</td>
<td>1:E:18:ARG:HB3</td>
<td>0.89</td>
<td>1.01</td>
</tr>
<tr>
<td>1:H:138:CYS:CA</td>
<td>1:H:410:GLY:HA2</td>
<td>1.90</td>
<td>1.01</td>
</tr>
<tr>
<td>1:D:18:ARG:HH11</td>
<td>1:D:18:ARG:HB3</td>
<td>0.89</td>
<td>1.01</td>
</tr>
<tr>
<td>1:D:406:ALA:O</td>
<td>1:D:410:GLY:N</td>
<td>1.94</td>
<td>1.01</td>
</tr>
<tr>
<td>1:D:464:VAL:HG21</td>
<td>1:K:467:ASN:CB</td>
<td>1.89</td>
<td>1.01</td>
</tr>
<tr>
<td>1:E:406:ALA:HB2</td>
<td>1:E:496:PRO:HB3</td>
<td>1.40</td>
<td>1.01</td>
</tr>
<tr>
<td>1:L:138:CYS:CA</td>
<td>1:L:410:GLY:HA2</td>
<td>1.90</td>
<td>1.00</td>
</tr>
<tr>
<td>1:E:406:ALA:O</td>
<td>1:E:410:GLY:N</td>
<td>1.94</td>
<td>1.00</td>
</tr>
<tr>
<td>1:N:138:CYS:CA</td>
<td>1:N:410:GLY:HA2</td>
<td>1.90</td>
<td>1.00</td>
</tr>
</tbody>
</table>

*Continued on next page...*
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:B:406:ALA:O</td>
<td>1:B:410:GLY:N</td>
<td>1.94</td>
<td>1.00</td>
</tr>
<tr>
<td>1:B:464:VAL:CG1</td>
<td>1:I:467:ASN:ND2</td>
<td>2.18</td>
<td>1.00</td>
</tr>
<tr>
<td>1:D:464:VAL:CG1</td>
<td>1:K:467:ASN:ND2</td>
<td>2.18</td>
<td>1.00</td>
</tr>
<tr>
<td>1:K:138:CYS:CB</td>
<td>1:K:410:GLY:N</td>
<td>2.23</td>
<td>1.00</td>
</tr>
<tr>
<td>1:A:464:VAL:CG1</td>
<td>1:H:467:ASN:ND2</td>
<td>2.18</td>
<td>1.00</td>
</tr>
<tr>
<td>1:B:146:GLN:NE2</td>
<td>1:B:494:LEU:CD1</td>
<td>2.25</td>
<td>1.00</td>
</tr>
<tr>
<td>1:C:146:GLN:NE2</td>
<td>1:C:494:LEU:CD1</td>
<td>2.25</td>
<td>1.00</td>
</tr>
<tr>
<td>1:E:464:VAL:CG1</td>
<td>1:L:467:ASN:ND2</td>
<td>2.18</td>
<td>1.00</td>
</tr>
<tr>
<td>1:M:138:CYS:CA</td>
<td>1:M:410:GLY:HA2</td>
<td>1.90</td>
<td>0.99</td>
</tr>
<tr>
<td>1:C:406:ALA:O</td>
<td>1:C:410:GLY:N</td>
<td>1.93</td>
<td>0.99</td>
</tr>
<tr>
<td>1:E:138:CYS:HB3</td>
<td>1:E:410:GLY:HA2</td>
<td>1.45</td>
<td>0.99</td>
</tr>
<tr>
<td>1:D:406:ALA:HB2</td>
<td>1:D:496:PRO:HB3</td>
<td>1.40</td>
<td>0.99</td>
</tr>
<tr>
<td>1:D:138:CYS:HB3</td>
<td>1:D:410:GLY:HA2</td>
<td>1.45</td>
<td>0.99</td>
</tr>
<tr>
<td>1:G:146:GLN:NE2</td>
<td>1:G:494:LEU:CD1</td>
<td>2.25</td>
<td>0.98</td>
</tr>
<tr>
<td>1:C:463:SER:OG</td>
<td>1:J:464:VAL:HG23</td>
<td>1.63</td>
<td>0.98</td>
</tr>
<tr>
<td>1:C:138:CYS:HB3</td>
<td>1:C:410:GLY:HA2</td>
<td>1.45</td>
<td>0.98</td>
</tr>
<tr>
<td>1:A:146:GLN:NE2</td>
<td>1:A:494:LEU:CD1</td>
<td>2.25</td>
<td>0.98</td>
</tr>
<tr>
<td>1:L:138:CYS:CB</td>
<td>1:L:410:GLY:N</td>
<td>2.23</td>
<td>0.98</td>
</tr>
<tr>
<td>1:B:138:CYS:HB3</td>
<td>1:B:410:GLY:HA2</td>
<td>1.45</td>
<td>0.98</td>
</tr>
<tr>
<td>1:B:203:TYR:HH</td>
<td>1:C:286:LYS:HD3</td>
<td>1.26</td>
<td>0.98</td>
</tr>
<tr>
<td>1:D:146:GLN:NE2</td>
<td>1:D:494:LEU:CD1</td>
<td>2.25</td>
<td>0.97</td>
</tr>
<tr>
<td>1:C:105:LYS:HG2</td>
<td>1:I:109:ALA:O</td>
<td>1.62</td>
<td>0.97</td>
</tr>
<tr>
<td>1:F:146:GLN:NE2</td>
<td>1:F:494:LEU:CD1</td>
<td>2.25</td>
<td>0.97</td>
</tr>
<tr>
<td>1:C:464:VAL:CG1</td>
<td>1:J:467:ASN:ND2</td>
<td>2.18</td>
<td>0.97</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:138:CYS:HB3</td>
<td>1:G:410:GLY:HA2</td>
<td>1.45</td>
<td>0.97</td>
</tr>
<tr>
<td>1:H:138:CYS:CB</td>
<td>1:H:410:GLY:N</td>
<td>2.22</td>
<td>0.97</td>
</tr>
<tr>
<td>1:A:138:CYS:CB</td>
<td>1:A:410:GLY:HA2</td>
<td>1.45</td>
<td>0.97</td>
</tr>
<tr>
<td>1:N:138:CYS:CB</td>
<td>1:N:410:GLY:N</td>
<td>2.22</td>
<td>0.97</td>
</tr>
<tr>
<td>1:B:463:SER:OG</td>
<td>1:I:464:VAL:HG23</td>
<td>1.63</td>
<td>0.97</td>
</tr>
<tr>
<td>1:E:146:GLN:NE2</td>
<td>1:E:494:LEU:CD1</td>
<td>2.25</td>
<td>0.96</td>
</tr>
<tr>
<td>1:N:150:ILE:HD13</td>
<td>1:N:494:LEU:O</td>
<td>0.78</td>
<td>0.95</td>
</tr>
<tr>
<td>1:F:204:PHE:CE2</td>
<td>1:F:266:THR:HG21</td>
<td>2.02</td>
<td>0.95</td>
</tr>
<tr>
<td>1:H:150:ILE:HD13</td>
<td>1:H:494:LEU:O</td>
<td>0.78</td>
<td>0.95</td>
</tr>
<tr>
<td>1:C:204:PHE:CE2</td>
<td>1:C:266:THR:HG21</td>
<td>2.02</td>
<td>0.95</td>
</tr>
<tr>
<td>1:D:204:PHE:CE2</td>
<td>1:D:266:THR:HG21</td>
<td>2.01</td>
<td>0.95</td>
</tr>
<tr>
<td>1:F:136:VAL:CA</td>
<td>1:F:137:PRO:N</td>
<td>2.30</td>
<td>0.95</td>
</tr>
<tr>
<td>1:E:204:PHE:CE2</td>
<td>1:E:266:THR:HG21</td>
<td>2.02</td>
<td>0.95</td>
</tr>
<tr>
<td>1:M:150:ILE:HD13</td>
<td>1:M:494:LEU:O</td>
<td>0.78</td>
<td>0.95</td>
</tr>
<tr>
<td>1:I:150:ILE:HD13</td>
<td>1:I:494:LEU:O</td>
<td>0.78</td>
<td>0.95</td>
</tr>
<tr>
<td>1:K:150:ILE:HD13</td>
<td>1:K:494:LEU:O</td>
<td>0.78</td>
<td>0.95</td>
</tr>
<tr>
<td>1:F:204:PHE:CE2</td>
<td>1:F:266:THR:HG21</td>
<td>2.02</td>
<td>0.95</td>
</tr>
<tr>
<td>1:E:136:VAL:CA</td>
<td>1:E:137:PRO:N</td>
<td>2.30</td>
<td>0.95</td>
</tr>
<tr>
<td>1:E:204:PHE:CE2</td>
<td>1:E:266:THR:HG21</td>
<td>2.02</td>
<td>0.95</td>
</tr>
<tr>
<td>1:M:381:VAL:HG21</td>
<td>1:M:393:LYS:HA</td>
<td>1.48</td>
<td>0.94</td>
</tr>
<tr>
<td>1:N:381:VAL:HG21</td>
<td>1:N:393:LYS:HA</td>
<td>1.48</td>
<td>0.94</td>
</tr>
<tr>
<td>1:L:150:ILE:HD13</td>
<td>1:L:494:LEU:O</td>
<td>0.78</td>
<td>0.94</td>
</tr>
<tr>
<td>1:B:203:TYR:HH</td>
<td>1:B:286:LYS:HD3</td>
<td>1.26</td>
<td>0.94</td>
</tr>
<tr>
<td>1:D:136:VAL:CA</td>
<td>1:D:137:PRO:N</td>
<td>2.30</td>
<td>0.94</td>
</tr>
<tr>
<td>1:E:136:VAL:CA</td>
<td>1:E:137:PRO:N</td>
<td>2.30</td>
<td>0.94</td>
</tr>
<tr>
<td>1:B:204:PHE:CE2</td>
<td>1:B:266:THR:HG21</td>
<td>2.01</td>
<td>0.94</td>
</tr>
<tr>
<td>1:E:136:VAL:CB</td>
<td>1:E:410:GLY:N</td>
<td>2.23</td>
<td>0.94</td>
</tr>
<tr>
<td>1:L:381:VAL:HG21</td>
<td>1:L:393:LYS:HA</td>
<td>1.48</td>
<td>0.94</td>
</tr>
<tr>
<td>1:C:136:VAL:CA</td>
<td>1:C:137:PRO:N</td>
<td>2.30</td>
<td>0.94</td>
</tr>
<tr>
<td>1:G:204:PHE:CE2</td>
<td>1:G:266:THR:HG21</td>
<td>2.01</td>
<td>0.94</td>
</tr>
<tr>
<td>1:H:381:VAL:HG21</td>
<td>1:H:393:LYS:HA</td>
<td>1.48</td>
<td>0.94</td>
</tr>
<tr>
<td>1:A:136:VAL:CA</td>
<td>1:A:137:PRO:N</td>
<td>2.30</td>
<td>0.94</td>
</tr>
<tr>
<td>1:A:204:PHE:CE2</td>
<td>1:A:266:THR:HG21</td>
<td>2.01</td>
<td>0.94</td>
</tr>
<tr>
<td>1:B:136:VAL:CA</td>
<td>1:B:137:PRO:N</td>
<td>2.30</td>
<td>0.93</td>
</tr>
<tr>
<td>1:M:138:CYS:CB</td>
<td>1:M:410:GLY:N</td>
<td>2.22</td>
<td>0.93</td>
</tr>
<tr>
<td>1:G:136:VAL:CA</td>
<td>1:G:137:PRO:N</td>
<td>2.30</td>
<td>0.93</td>
</tr>
<tr>
<td>2:O:70:SER:OG</td>
<td>2:U:80:PRO:HG2</td>
<td>1.69</td>
<td>0.93</td>
</tr>
<tr>
<td>2:P:80:PRO:HG2</td>
<td>2:Q:70:SER:OG</td>
<td>1.69</td>
<td>0.93</td>
</tr>
<tr>
<td>2:Q:80:PRO:HG2</td>
<td>2:R:70:SER:OG</td>
<td>1.69</td>
<td>0.93</td>
</tr>
<tr>
<td>1:K:381:VAL:HG21</td>
<td>1:K:393:LYS:HA</td>
<td>1.48</td>
<td>0.93</td>
</tr>
<tr>
<td>1:I:381:VAL:HG21</td>
<td>1:I:393:LYS:HA</td>
<td>1.48</td>
<td>0.93</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:R:80:PRO:HG2</td>
<td>2:S:70:SER:OG</td>
<td>1.69</td>
<td>0.93</td>
</tr>
<tr>
<td>1:F:203:TYR:HH</td>
<td>1:G:286:LYS:HD3</td>
<td>1.20</td>
<td>0.93</td>
</tr>
<tr>
<td>1:A:286:LYS:HD3</td>
<td>1:G:203:TYR:HH</td>
<td>1.12</td>
<td>0.93</td>
</tr>
<tr>
<td>1:I:381:VAL:HG21</td>
<td>1:J:393:LYS:HA</td>
<td>1.48</td>
<td>0.93</td>
</tr>
<tr>
<td>2:O:80:PRO:HG2</td>
<td>2:P:70:SER:OG</td>
<td>1.69</td>
<td>0.92</td>
</tr>
<tr>
<td>1:E:463:SER:HB2</td>
<td>1:L:464:VAL:HG21</td>
<td>1.51</td>
<td>0.92</td>
</tr>
<tr>
<td>2:T:80:PRO:HG2</td>
<td>2:U:70:SER:OG</td>
<td>1.69</td>
<td>0.92</td>
</tr>
<tr>
<td>1:D:463:SER:HB2</td>
<td>1:K:464:VAL:HG21</td>
<td>1.51</td>
<td>0.92</td>
</tr>
<tr>
<td>2:S:80:PRO:HG2</td>
<td>2:T:70:SER:OG</td>
<td>1.69</td>
<td>0.92</td>
</tr>
<tr>
<td>2:S:17:ILE:HD11</td>
<td>2:T:108:CYS:HB3</td>
<td>1.52</td>
<td>0.91</td>
</tr>
<tr>
<td>2:R:17:ILE:HD11</td>
<td>2:S:108:CYS:HB3</td>
<td>1.52</td>
<td>0.91</td>
</tr>
<tr>
<td>2:T:17:ILE:HD11</td>
<td>2:U:108:CYS:HB3</td>
<td>1.52</td>
<td>0.91</td>
</tr>
<tr>
<td>1:D:203:TYR:HH</td>
<td>1:E:286:LYS:HD3</td>
<td>1.17</td>
<td>0.91</td>
</tr>
<tr>
<td>1:E:203:TYR:HH</td>
<td>1:F:286:LYS:HD3</td>
<td>1.09</td>
<td>0.91</td>
</tr>
<tr>
<td>2:Q:17:ILE:HD11</td>
<td>2:R:108:CYS:HB3</td>
<td>1.52</td>
<td>0.91</td>
</tr>
<tr>
<td>1:I:190:VAL:HG21</td>
<td>1:J:334:ASP:OD2</td>
<td>1.71</td>
<td>0.91</td>
</tr>
<tr>
<td>1:C:463:SER:HB2</td>
<td>1:J:464:VAL:HG21</td>
<td>1.51</td>
<td>0.90</td>
</tr>
<tr>
<td>1:D:466:GLN:HB3</td>
<td>1:D:494:LEU:HG</td>
<td>1.54</td>
<td>0.90</td>
</tr>
<tr>
<td>1:B:463:SER:HB2</td>
<td>1:I:464:VAL:HG21</td>
<td>1.51</td>
<td>0.90</td>
</tr>
<tr>
<td>1:I:190:VAL:HG21</td>
<td>1:J:334:ASP:OD2</td>
<td>1.71</td>
<td>0.90</td>
</tr>
<tr>
<td>1:E:466:GLN:HB3</td>
<td>1:E:494:LEU:HG</td>
<td>1.54</td>
<td>0.89</td>
</tr>
<tr>
<td>1:C:466:GLN:HB3</td>
<td>1:C:494:LEU:HG</td>
<td>1.54</td>
<td>0.89</td>
</tr>
<tr>
<td>1:N:190:VAL:HG21</td>
<td>1:N:334:ASP:OD2</td>
<td>1.71</td>
<td>0.89</td>
</tr>
<tr>
<td>2:P:17:ILE:HD11</td>
<td>2:Q:108:CYS:HB3</td>
<td>1.52</td>
<td>0.89</td>
</tr>
<tr>
<td>1:M:190:VAL:HG21</td>
<td>1:M:334:ASP:OD2</td>
<td>1.71</td>
<td>0.89</td>
</tr>
<tr>
<td>2:0:108:CYS:HB3</td>
<td>2:U:17:ILE:HD11</td>
<td>1.52</td>
<td>0.89</td>
</tr>
<tr>
<td>1:H:150:ILE:HD13</td>
<td>1:H:494:LEU:C</td>
<td>1.93</td>
<td>0.89</td>
</tr>
<tr>
<td>1:I:150:ILE:HD13</td>
<td>1:J:494:LEU:C</td>
<td>1.93</td>
<td>0.89</td>
</tr>
<tr>
<td>1:K:190:VAL:HG21</td>
<td>1:K:334:ASP:OD2</td>
<td>1.71</td>
<td>0.89</td>
</tr>
<tr>
<td>1:L:190:VAL:HG21</td>
<td>1:L:334:ASP:OD2</td>
<td>1.71</td>
<td>0.89</td>
</tr>
<tr>
<td>1:J:143:ALA:O</td>
<td>1:J:146:GLN:HB3</td>
<td>1.73</td>
<td>0.89</td>
</tr>
<tr>
<td>2:O:17:ILE:HD11</td>
<td>2:P:108:CYS:HB3</td>
<td>1.52</td>
<td>0.89</td>
</tr>
<tr>
<td>1:H:143:ALA:O</td>
<td>1:H:146:GLN:HB3</td>
<td>1.73</td>
<td>0.89</td>
</tr>
<tr>
<td>1:M:150:ILE:HD13</td>
<td>1:M:494:LEU:C</td>
<td>1.93</td>
<td>0.88</td>
</tr>
<tr>
<td>1:J:146:GLN:HB3</td>
<td>1:F:494:LEU:HG</td>
<td>1.54</td>
<td>0.88</td>
</tr>
<tr>
<td>1:N:143:ALA:O</td>
<td>1:N:146:GLN:HB3</td>
<td>1.73</td>
<td>0.88</td>
</tr>
<tr>
<td>1:H:143:ALA:O</td>
<td>1:H:146:GLN:HB3</td>
<td>1.73</td>
<td>0.88</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:K:143:ALA:O</td>
<td>1:K:146:GLN:HB3</td>
<td>1.73</td>
<td>0.88</td>
</tr>
<tr>
<td>1:M:146:GLN:HB3</td>
<td>1:M:146:GLN:HB3</td>
<td>1.73</td>
<td>0.88</td>
</tr>
<tr>
<td>1:D:463:SER:HB2</td>
<td>1:K:464:VAL:CG2</td>
<td>2.04</td>
<td>0.88</td>
</tr>
<tr>
<td>1:B:463:GLN:HB3</td>
<td>1:B:494:LEU:HG</td>
<td>1.54</td>
<td>0.88</td>
</tr>
<tr>
<td>1:M:166:MET:HE2</td>
<td>1:M:171:LYS:HA</td>
<td>1.55</td>
<td>0.88</td>
</tr>
<tr>
<td>1:C:463:SER:HB2</td>
<td>1:J:464:VAL:CG2</td>
<td>2.04</td>
<td>0.88</td>
</tr>
<tr>
<td>2:S:82:PRO:HA</td>
<td>2:T:110:TYR:CE1</td>
<td>2.09</td>
<td>0.88</td>
</tr>
<tr>
<td>1:E:463:SER:HB2</td>
<td>1:L:464:VAL:CG2</td>
<td>2.04</td>
<td>0.87</td>
</tr>
<tr>
<td>2:O:82:PRO:HA</td>
<td>2:P:110:TYR:CE1</td>
<td>2.09</td>
<td>0.87</td>
</tr>
<tr>
<td>1:A:146:GLN:HB3</td>
<td>1:A:494:LEU:HG</td>
<td>1.54</td>
<td>0.87</td>
</tr>
<tr>
<td>1:C:267:MET:SD</td>
<td>1:D:305:ILE:HD12</td>
<td>2.15</td>
<td>0.87</td>
</tr>
<tr>
<td>1:G:463:SER:HB2</td>
<td>1:N:464:VAL:CG2</td>
<td>2.04</td>
<td>0.87</td>
</tr>
<tr>
<td>2:O:110:TYR:CE1</td>
<td>2:U:82:PRO:HA</td>
<td>2.09</td>
<td>0.87</td>
</tr>
<tr>
<td>1:E:267:MET:SD</td>
<td>1:F:305:ILE:HD12</td>
<td>2.15</td>
<td>0.87</td>
</tr>
<tr>
<td>1:F:267:MET:SD</td>
<td>1:G:305:ILE:HD12</td>
<td>2.15</td>
<td>0.87</td>
</tr>
<tr>
<td>1:N:166:MET:HE2</td>
<td>1:N:171:LYS:HA</td>
<td>1.55</td>
<td>0.87</td>
</tr>
<tr>
<td>2:Q:82:PRO:HA</td>
<td>2:R:110:TYR:CE1</td>
<td>2.09</td>
<td>0.87</td>
</tr>
<tr>
<td>1:A:304:GLU:OE2</td>
<td>1:G:203:TYR:CE2</td>
<td>2.28</td>
<td>0.87</td>
</tr>
<tr>
<td>1:B:267:MET:SD</td>
<td>1:C:305:ILE:HD12</td>
<td>2.14</td>
<td>0.87</td>
</tr>
<tr>
<td>1:A:203:TYR:CE2</td>
<td>1:B:304:GLU:OE2</td>
<td>2.28</td>
<td>0.87</td>
</tr>
<tr>
<td>1:A:267:MET:SD</td>
<td>1:B:305:ILE:HD12</td>
<td>2.15</td>
<td>0.87</td>
</tr>
<tr>
<td>1:D:203:TYR:CE2</td>
<td>1:E:304:GLU:OE2</td>
<td>2.28</td>
<td>0.87</td>
</tr>
<tr>
<td>2:R:82:PRO:HA</td>
<td>2:S:110:TYR:CE1</td>
<td>2.09</td>
<td>0.87</td>
</tr>
<tr>
<td>1:A:305:ILE:HD12</td>
<td>1:G:267:MET:SD</td>
<td>2.15</td>
<td>0.87</td>
</tr>
<tr>
<td>1:I:166:MET:HE2</td>
<td>1:I:171:LYS:HA</td>
<td>1.55</td>
<td>0.87</td>
</tr>
<tr>
<td>1:L:166:MET:HE2</td>
<td>1:L:171:LYS:HA</td>
<td>1.56</td>
<td>0.87</td>
</tr>
<tr>
<td>1:F:463:SER:HB2</td>
<td>1:M:464:VAL:CG2</td>
<td>2.04</td>
<td>0.87</td>
</tr>
<tr>
<td>1:N:150:ILE:HD13</td>
<td>1:N:494:LEU:C</td>
<td>1.93</td>
<td>0.87</td>
</tr>
<tr>
<td>2:T:82:PRO:HA</td>
<td>2:U:110:TYR:CE1</td>
<td>2.09</td>
<td>0.87</td>
</tr>
<tr>
<td>1:G:146:GLN:HB3</td>
<td>1:G:494:LEU:HG</td>
<td>1.54</td>
<td>0.87</td>
</tr>
<tr>
<td>2:P:82:PRO:HA</td>
<td>2:Q:110:TYR:CE1</td>
<td>2.09</td>
<td>0.87</td>
</tr>
<tr>
<td>1:K:150:ILE:HD13</td>
<td>1:K:494:LEU:C</td>
<td>1.93</td>
<td>0.87</td>
</tr>
<tr>
<td>1:F:203:TYR:CE2</td>
<td>1:G:304:GLU:OE2</td>
<td>2.28</td>
<td>0.86</td>
</tr>
<tr>
<td>1:B:463:SER:HB2</td>
<td>1:I:464:VAL:CG2</td>
<td>2.04</td>
<td>0.86</td>
</tr>
<tr>
<td>1:I:150:ILE:HD13</td>
<td>1:I:494:LEU:C</td>
<td>1.93</td>
<td>0.86</td>
</tr>
<tr>
<td>1:L:143:ALA:O</td>
<td>1:L:146:GLN:HB3</td>
<td>1.73</td>
<td>0.86</td>
</tr>
<tr>
<td>1:B:203:TYR:CE2</td>
<td>1:C:304:GLU:OE2</td>
<td>2.28</td>
<td>0.86</td>
</tr>
<tr>
<td>1:C:203:TYR:CE2</td>
<td>1:D:304:GLU:OE2</td>
<td>2.28</td>
<td>0.86</td>
</tr>
<tr>
<td>1:E:203:TYR:CE2</td>
<td>1:F:304:GLU:OE2</td>
<td>2.28</td>
<td>0.86</td>
</tr>
<tr>
<td>1:C:461:GLU:OE1</td>
<td>1:J:463:SER:CB</td>
<td>2.24</td>
<td>0.86</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:461:GLU:OE1</td>
<td>1:H:463:SER:CB</td>
<td>2.24</td>
<td>0.86</td>
</tr>
<tr>
<td>1:D:267:MET:SD</td>
<td>1:E:305:ILE:HD12</td>
<td>2.15</td>
<td>0.86</td>
</tr>
<tr>
<td>1:B:461:GLU:OE1</td>
<td>1:I:463:SER:CB</td>
<td>2.24</td>
<td>0.86</td>
</tr>
<tr>
<td>1:F:461:GLU:OE1</td>
<td>1:M:463:SER:CB</td>
<td>2.24</td>
<td>0.86</td>
</tr>
<tr>
<td>1:G:461:GLU:OE1</td>
<td>1:N:463:SER:CB</td>
<td>2.24</td>
<td>0.86</td>
</tr>
<tr>
<td>1:D:461:GLU:OE1</td>
<td>1:K:463:SER:CB</td>
<td>2.24</td>
<td>0.86</td>
</tr>
<tr>
<td>1:L:150:ILE:HD13</td>
<td>1:L:494:LEU:C</td>
<td>1.93</td>
<td>0.86</td>
</tr>
<tr>
<td>1:J:166:MET:HE2</td>
<td>1:J:171:LYS:HA</td>
<td>1.55</td>
<td>0.85</td>
</tr>
<tr>
<td>1:B:90:THR:O</td>
<td>1:B:94:VAL:HG23</td>
<td>1.77</td>
<td>0.85</td>
</tr>
<tr>
<td>1:H:166:MET:HE2</td>
<td>1:H:171:LYS:HA</td>
<td>1.55</td>
<td>0.85</td>
</tr>
<tr>
<td>1:J:90:THR:O</td>
<td>1:J:94:VAL:HG23</td>
<td>1.77</td>
<td>0.85</td>
</tr>
<tr>
<td>1:M:90:THR:O</td>
<td>1:M:94:VAL:HG23</td>
<td>1.77</td>
<td>0.85</td>
</tr>
<tr>
<td>1:K:90:THR:O</td>
<td>1:K:94:VAL:HG23</td>
<td>1.77</td>
<td>0.85</td>
</tr>
<tr>
<td>1:L:90:THR:O</td>
<td>1:L:94:VAL:HG23</td>
<td>1.77</td>
<td>0.85</td>
</tr>
<tr>
<td>1:I:90:THR:O</td>
<td>1:I:94:VAL:HG23</td>
<td>1.77</td>
<td>0.85</td>
</tr>
<tr>
<td>1:N:90:THR:O</td>
<td>1:N:94:VAL:HG23</td>
<td>1.77</td>
<td>0.85</td>
</tr>
<tr>
<td>1:C:90:THR:O</td>
<td>1:C:94:VAL:HG23</td>
<td>1.77</td>
<td>0.85</td>
</tr>
<tr>
<td>1:K:166:MET:HE2</td>
<td>1:K:171:LYS:HA</td>
<td>1.55</td>
<td>0.84</td>
</tr>
<tr>
<td>1:A:90:THR:O</td>
<td>1:A:94:VAL:HG23</td>
<td>1.77</td>
<td>0.84</td>
</tr>
<tr>
<td>1:E:90:THR:O</td>
<td>1:E:94:VAL:HG23</td>
<td>1.77</td>
<td>0.84</td>
</tr>
<tr>
<td>1:B:174:VAL:HG21</td>
<td>1:B:367:GLU:HA</td>
<td>1.58</td>
<td>0.84</td>
</tr>
<tr>
<td>1:E:461:GLU:OE1</td>
<td>1:L:463:SER:CB</td>
<td>2.24</td>
<td>0.84</td>
</tr>
<tr>
<td>1:G:174:VAL:HG21</td>
<td>1:G:367:GLU:HA</td>
<td>1.58</td>
<td>0.84</td>
</tr>
<tr>
<td>1:D:90:THR:O</td>
<td>1:D:94:VAL:HG23</td>
<td>1.77</td>
<td>0.84</td>
</tr>
<tr>
<td>1:G:138:CYS:HB2</td>
<td>1:G:411:VAL:HG13</td>
<td>1.59</td>
<td>0.84</td>
</tr>
<tr>
<td>1:C:174:VAL:HG21</td>
<td>1:C:367:GLU:HA</td>
<td>1.58</td>
<td>0.84</td>
</tr>
<tr>
<td>1:F:90:THR:O</td>
<td>1:F:94:VAL:HG23</td>
<td>1.77</td>
<td>0.83</td>
</tr>
<tr>
<td>1:D:138:CYS:HB2</td>
<td>1:D:411:VAL:HG13</td>
<td>1.59</td>
<td>0.83</td>
</tr>
<tr>
<td>1:D:174:VAL:HG21</td>
<td>1:D:367:GLU:HA</td>
<td>1.58</td>
<td>0.83</td>
</tr>
<tr>
<td>1:G:90:THR:O</td>
<td>1:G:94:VAL:HG23</td>
<td>1.77</td>
<td>0.83</td>
</tr>
<tr>
<td>1:G:463:SER:CB</td>
<td>1:N:464:VAL:CG2</td>
<td>2.57</td>
<td>0.83</td>
</tr>
<tr>
<td>1:D:463:SER:CB</td>
<td>1:K:464:VAL:CG2</td>
<td>2.57</td>
<td>0.83</td>
</tr>
<tr>
<td>1:E:138:CYS:HB2</td>
<td>1:E:411:VAL:HG13</td>
<td>1.59</td>
<td>0.83</td>
</tr>
<tr>
<td>1:B:463:SER:CB</td>
<td>1:1:464:VAL:CG2</td>
<td>2.57</td>
<td>0.83</td>
</tr>
<tr>
<td>1:E:197:ARG:HD3</td>
<td>1:E:277:LYS:CB</td>
<td>2.09</td>
<td>0.83</td>
</tr>
<tr>
<td>1:H:90:THR:O</td>
<td>1:H:94:VAL:HG23</td>
<td>1.77</td>
<td>0.83</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:F:463:SER:CB</td>
<td>1:M:464:VAL:CG2</td>
<td>2.57</td>
<td>0.83</td>
</tr>
<tr>
<td>1:F:197:ARG:HD3</td>
<td>1:F:277:LYS:CB</td>
<td>2.09</td>
<td>0.82</td>
</tr>
<tr>
<td>1:E:463:SER:CB</td>
<td>1:L:464:VAL:CG2</td>
<td>2.57</td>
<td>0.82</td>
</tr>
<tr>
<td>1:A:463:SER:CB</td>
<td>1:H:464:VAL:CG2</td>
<td>2.57</td>
<td>0.82</td>
</tr>
<tr>
<td>1:N:149:THR:HG23</td>
<td>1:N:159:GLY:HA3</td>
<td>1.61</td>
<td>0.82</td>
</tr>
<tr>
<td>1:H:149:THR:HG23</td>
<td>1:H:159:GLY:HA3</td>
<td>1.61</td>
<td>0.82</td>
</tr>
<tr>
<td>1:M:149:THR:HG23</td>
<td>1:M:159:GLY:HA3</td>
<td>1.61</td>
<td>0.82</td>
</tr>
<tr>
<td>1:A:197:ARG:HD3</td>
<td>1:A:277:LYS:CB</td>
<td>2.09</td>
<td>0.82</td>
</tr>
<tr>
<td>1:D:197:ARG:HD3</td>
<td>1:D:277:LYS:CB</td>
<td>2.09</td>
<td>0.82</td>
</tr>
<tr>
<td>1:B:197:ARG:HD3</td>
<td>1:B:277:LYS:CB</td>
<td>2.09</td>
<td>0.82</td>
</tr>
<tr>
<td>1:C:138:CYS:HB2</td>
<td>1:C:411:VAL:HG13</td>
<td>1.59</td>
<td>0.82</td>
</tr>
<tr>
<td>1:B:138:CYS:HB2</td>
<td>1:B:411:VAL:HG13</td>
<td>1.59</td>
<td>0.82</td>
</tr>
<tr>
<td>1:C:463:SER:CB</td>
<td>1:J:464:VAL:CG2</td>
<td>2.57</td>
<td>0.82</td>
</tr>
<tr>
<td>1:E:172:GLU:CD</td>
<td>1:E:350:ARG:HG3</td>
<td>2.01</td>
<td>0.81</td>
</tr>
<tr>
<td>1:L:149:THR:HG23</td>
<td>1:L:159:GLY:HA3</td>
<td>1.61</td>
<td>0.81</td>
</tr>
<tr>
<td>1:C:197:ARG:HD3</td>
<td>1:C:277:LYS:CB</td>
<td>2.09</td>
<td>0.81</td>
</tr>
<tr>
<td>1:F:172:GLU:CD</td>
<td>1:F:350:ARG:HG3</td>
<td>2.01</td>
<td>0.81</td>
</tr>
<tr>
<td>1:C:464:VAL:CG2</td>
<td>1:J:467:ASN:CB</td>
<td>2.59</td>
<td>0.81</td>
</tr>
<tr>
<td>1:J:143:ALA:O</td>
<td>1:J:147:VAL:HG12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:K:143:ALA:O</td>
<td>1:K:147:VAL:HG12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:J:138:CYS:HB2</td>
<td>1:J:410:GLY:HA2</td>
<td>0.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:L:406:ALA:O</td>
<td>1:L:410:GLY:N</td>
<td>2.14</td>
<td>0.81</td>
</tr>
<tr>
<td>1:B:414:GLY:O</td>
<td>1:B:417:VAL:HG12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:H:143:ALA:O</td>
<td>1:H:147:VAL:HG12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:I:143:ALA:O</td>
<td>1:I:147:VAL:HG12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:I:149:THR:HG23</td>
<td>1:I:159:GLY:HA3</td>
<td>1.61</td>
<td>0.81</td>
</tr>
<tr>
<td>1:K:149:THR:HG23</td>
<td>1:K:159:GLY:HA3</td>
<td>1.61</td>
<td>0.81</td>
</tr>
<tr>
<td>1:L:414:GLY:O</td>
<td>1:L:417:VAL:HG12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:E:464:VAL:HB</td>
<td>1:L:467:ASN:ND2</td>
<td>1.96</td>
<td>0.81</td>
</tr>
<tr>
<td>1:D:464:VAL:CG2</td>
<td>1:K:467:ASN:CB</td>
<td>2.59</td>
<td>0.81</td>
</tr>
<tr>
<td>1:H:136:VAL:CA</td>
<td>1:H:137:PRO:N</td>
<td>2.44</td>
<td>0.81</td>
</tr>
<tr>
<td>1:M:136:VAL:CA</td>
<td>1:M:137:PRO:N</td>
<td>2.44</td>
<td>0.81</td>
</tr>
<tr>
<td>1:M:143:ALA:O</td>
<td>1:M:147:VAL:HG12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:M:406:ALA:O</td>
<td>1:M:410:GLY:N</td>
<td>2.14</td>
<td>0.81</td>
</tr>
<tr>
<td>1:N:414:GLY:O</td>
<td>1:N:417:VAL:HG12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:G:414:GLY:O</td>
<td>1:G:417:VAL:HG12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:K:138:CYS:HB2</td>
<td>1:K:410:GLY:HA2</td>
<td>0.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:L:143:ALA:O</td>
<td>1:L:147:VAL:HG12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:N:143:ALA:O</td>
<td>1:N:147:VAL:HG12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:I:136:VAL:CA</td>
<td>1:I:137:PRO:N</td>
<td>2.44</td>
<td>0.81</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:K:406:ALA:O</td>
<td>1:K:410:GLY:N</td>
<td>2.14</td>
<td>0.81</td>
</tr>
<tr>
<td>1:N:136:VAL:CA</td>
<td>1:N:137:PRO:N</td>
<td>2.44</td>
<td>0.81</td>
</tr>
<tr>
<td>1:N:138:CYS:HB2</td>
<td>1:N:410:GLY:HA2</td>
<td>0.81</td>
<td>0.81</td>
</tr>
<tr>
<td>1:H:138:CYS:HB2</td>
<td>1:H:410:GLY:HA2</td>
<td>0.81</td>
<td>0.80</td>
</tr>
<tr>
<td>1:B:172:GLU:CD</td>
<td>1:B:350:ARG:HG3</td>
<td>2.01</td>
<td>0.80</td>
</tr>
<tr>
<td>1:C:414:GLY:O</td>
<td>1:C:417:VAL:HG12</td>
<td>1.81</td>
<td>0.80</td>
</tr>
<tr>
<td>1:D:172:GLU:CD</td>
<td>1:D:350:ARG:HG3</td>
<td>2.01</td>
<td>0.80</td>
</tr>
<tr>
<td>1:I:406:ALA:O</td>
<td>1:I:410:GLY:N</td>
<td>2.14</td>
<td>0.80</td>
</tr>
<tr>
<td>1:M:138:CYS:HB2</td>
<td>1:M:410:GLY:HA2</td>
<td>0.81</td>
<td>0.80</td>
</tr>
<tr>
<td>1:F:414:GLY:O</td>
<td>1:F:417:VAL:HG12</td>
<td>1.81</td>
<td>0.80</td>
</tr>
<tr>
<td>1:J:414:GLY:O</td>
<td>1:J:417:VAL:HG12</td>
<td>1.81</td>
<td>0.80</td>
</tr>
<tr>
<td>1:K:136:VAL:CA</td>
<td>1:K:137:PRO:N</td>
<td>2.44</td>
<td>0.80</td>
</tr>
<tr>
<td>1:J:149:THR:HG23</td>
<td>1:J:159:GLY:HA3</td>
<td>1.61</td>
<td>0.80</td>
</tr>
<tr>
<td>1:L:136:VAL:CA</td>
<td>1:L:137:PRO:N</td>
<td>2.44</td>
<td>0.80</td>
</tr>
<tr>
<td>1:E:464:VAL:CG2</td>
<td>1:L:467:ASN:CB</td>
<td>2.59</td>
<td>0.80</td>
</tr>
<tr>
<td>1:G:172:GLU:CD</td>
<td>1:G:350:ARG:HG3</td>
<td>2.01</td>
<td>0.80</td>
</tr>
<tr>
<td>1:G:373:ALA:O</td>
<td>1:G:374:GLY:O</td>
<td>1.85</td>
<td>0.80</td>
</tr>
<tr>
<td>1:D:464:VAL:HB</td>
<td>1:K:467:ASN:ND2</td>
<td>1.96</td>
<td>0.80</td>
</tr>
<tr>
<td>1:A:172:GLU:CD</td>
<td>1:A:350:ARG:HG3</td>
<td>2.01</td>
<td>0.80</td>
</tr>
<tr>
<td>1:J:136:VAL:CA</td>
<td>1:J:137:PRO:N</td>
<td>2.44</td>
<td>0.80</td>
</tr>
<tr>
<td>1:K:414:GLY:O</td>
<td>1:K:417:VAL:HG12</td>
<td>1.81</td>
<td>0.80</td>
</tr>
<tr>
<td>1:D:414:GLY:O</td>
<td>1:D:417:VAL:HG12</td>
<td>1.81</td>
<td>0.80</td>
</tr>
<tr>
<td>1:I:414:GLY:O</td>
<td>1:I:417:VAL:HG12</td>
<td>1.81</td>
<td>0.80</td>
</tr>
<tr>
<td>1:A:414:GLY:O</td>
<td>1:A:417:VAL:HG12</td>
<td>1.81</td>
<td>0.79</td>
</tr>
<tr>
<td>1:F:373:ALA:O</td>
<td>1:F:374:GLY:O</td>
<td>1.84</td>
<td>0.79</td>
</tr>
<tr>
<td>1:H:414:GLY:O</td>
<td>1:H:417:VAL:HG12</td>
<td>1.81</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:373:ALA:O</td>
<td>1:A:374:GLY:O</td>
<td>1.84</td>
<td>0.79</td>
</tr>
<tr>
<td>1:G:197:ARG:HD3</td>
<td>1:G:277:LYS:CB</td>
<td>2.09</td>
<td>0.79</td>
</tr>
<tr>
<td>1:C:172:GLU:CD</td>
<td>1:C:350:ARG:HG3</td>
<td>2.01</td>
<td>0.79</td>
</tr>
<tr>
<td>1:E:414:GLY:O</td>
<td>1:E:417:VAL:HG12</td>
<td>1.81</td>
<td>0.79</td>
</tr>
<tr>
<td>1:M:414:GLY:O</td>
<td>1:M:417:VAL:HG12</td>
<td>1.81</td>
<td>0.79</td>
</tr>
<tr>
<td>1:I:138:CYS:HB2</td>
<td>1:I:410:GLY:HA2</td>
<td>0.81</td>
<td>0.79</td>
</tr>
<tr>
<td>1:H:63:GLU:HB2</td>
<td>1:N:3:ALA:CB</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:C:463:SER:OG</td>
<td>1:J:464:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:L:169:VAL:HG13</td>
<td>1:L:173:GLY:HA3</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:B:430:ARG:HT2</td>
<td>1:B:430:ARG:HH11</td>
<td>1.48</td>
<td>0.79</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:306:GLY:HA3</td>
<td>1:G:264:VAL:CG1</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:B:463:SER:OG</td>
<td>1:J:173:GLY:HA3</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:M:3:ALA:CB</td>
<td>1:N:63:GLU:HB2</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:3:ALA:CB</td>
<td>1:M:173:GLY:HA3</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:B:306:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:K:169:VAL:HG13</td>
<td>1:A:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:464:VAL:CG1</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:K:169:VAL:HG13</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:306:GLY:HA3</td>
<td>1:N:63:GLU:HB2</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:M:173:GLY:HA3</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:M:3:ALA:CB</td>
<td>1:N:63:GLU:HB2</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:306:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:B:464:VAL:CG1</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:M:173:GLY:HA3</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:N:63:GLU:HB2</td>
<td>1:M:173:GLY:HA3</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:463:SER:OG</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:306:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:B:464:VAL:CG1</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:M:173:GLY:HA3</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:N:63:GLU:HB2</td>
<td>1:M:173:GLY:HA3</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:463:SER:OG</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:306:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:B:464:VAL:CG1</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:M:173:GLY:HA3</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:N:63:GLU:HB2</td>
<td>1:M:173:GLY:HA3</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:463:SER:OG</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:306:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:B:464:VAL:CG1</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:M:173:GLY:HA3</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:N:63:GLU:HB2</td>
<td>1:M:173:GLY:HA3</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:463:SER:OG</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:306:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:B:464:VAL:CG1</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:M:173:GLY:HA3</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:N:63:GLU:HB2</td>
<td>1:M:173:GLY:HA3</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:463:SER:OG</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:306:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:B:464:VAL:CG1</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:M:173:GLY:HA3</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:N:63:GLU:HB2</td>
<td>1:M:173:GLY:HA3</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:463:SER:OG</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:306:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
<tr>
<td>1:B:464:VAL:CG1</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:146:VAL:CG2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>1:M:173:GLY:HA3</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:N:63:GLU:HB2</td>
<td>1:M:173:GLY:HA3</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:A:463:SER:OG</td>
<td>1:H:147:ASN:ND2</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>1:J:173:GLY:HA3</td>
<td>1:G:306:GLY:HA3</td>
<td>2.13</td>
<td>0.79</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:I:137:PRO:C</td>
<td>1:I:410:GLY:HA3</td>
<td>2.04</td>
<td>0.78</td>
</tr>
<tr>
<td>1:L:3:ALA:CB</td>
<td>1:L:63:GLU:HB2</td>
<td>2.13</td>
<td>0.78</td>
</tr>
<tr>
<td>1:F:463:SER:OG</td>
<td>1:M:464:VAL:CG2</td>
<td>2.31</td>
<td>0.78</td>
</tr>
<tr>
<td>1:C:373:ALA:O</td>
<td>1:C:374:GLY:O</td>
<td>1.84</td>
<td>0.78</td>
</tr>
<tr>
<td>1:L:137:PRO:C</td>
<td>1:L:410:GLY:HA3</td>
<td>2.04</td>
<td>0.78</td>
</tr>
<tr>
<td>1:E:463:SER:OG</td>
<td>1:L:464:VAL:CG2</td>
<td>2.31</td>
<td>0.78</td>
</tr>
<tr>
<td>1:M:192:GLY:CA</td>
<td>1:M:376:VAL:HG23</td>
<td>2.14</td>
<td>0.78</td>
</tr>
<tr>
<td>1:M:430:ARG:HG2</td>
<td>1:M:430:ARG:HH11</td>
<td>1.48</td>
<td>0.78</td>
</tr>
<tr>
<td>1:A:264:VAL:HG11</td>
<td>1:B:306:GLY:HA3</td>
<td>1.67</td>
<td>0.77</td>
</tr>
<tr>
<td>1:A:306:GLY:HA3</td>
<td>1:G:264:VAL:HG11</td>
<td>1.67</td>
<td>0.77</td>
</tr>
<tr>
<td>1:F:264:VAL:HG11</td>
<td>1:G:306:GLY:HA3</td>
<td>1.67</td>
<td>0.77</td>
</tr>
<tr>
<td>1:I:192:GLY:CA</td>
<td>1:I:376:VAL:HG23</td>
<td>2.14</td>
<td>0.77</td>
</tr>
<tr>
<td>1:G:463:SER:OG</td>
<td>1:N:464:VAL:CG2</td>
<td>2.31</td>
<td>0.77</td>
</tr>
<tr>
<td>1:E:264:VAL:HG11</td>
<td>1:F:306:GLY:HA3</td>
<td>1.67</td>
<td>0.77</td>
</tr>
<tr>
<td>1:J:430:ARG:HH11</td>
<td>1:J:430:ARG:HG2</td>
<td>1.48</td>
<td>0.77</td>
</tr>
<tr>
<td>1:C:264:VAL:CG1</td>
<td>1:D:306:GLY:HA3</td>
<td>2.13</td>
<td>0.77</td>
</tr>
<tr>
<td>1:D:264:VAL:CG1</td>
<td>1:E:306:GLY:HA3</td>
<td>2.13</td>
<td>0.77</td>
</tr>
<tr>
<td>1:B:264:VAL:HG11</td>
<td>1:C:306:GLY:HA3</td>
<td>1.67</td>
<td>0.77</td>
</tr>
<tr>
<td>1:M:137:PRO:C</td>
<td>1:M:410:GLY:HA3</td>
<td>2.04</td>
<td>0.77</td>
</tr>
<tr>
<td>1:F:464:VAL:HB</td>
<td>1:M:467:ASN:ND2</td>
<td>1.96</td>
<td>0.77</td>
</tr>
<tr>
<td>1:L:136:VAL:N</td>
<td>1:L:137:PRO:N</td>
<td>2.25</td>
<td>0.77</td>
</tr>
<tr>
<td>1:C:138:CYS:CB</td>
<td>1:C:411:VAL:HG13</td>
<td>2.14</td>
<td>0.77</td>
</tr>
<tr>
<td>1:G:138:CYS:CB</td>
<td>1:G:411:VAL:HG13</td>
<td>2.14</td>
<td>0.77</td>
</tr>
<tr>
<td>1:N:137:PRO:C</td>
<td>1:N:410:GLY:HA3</td>
<td>2.04</td>
<td>0.77</td>
</tr>
<tr>
<td>1:B:138:CYS:CB</td>
<td>1:B:411:VAL:HG13</td>
<td>2.14</td>
<td>0.76</td>
</tr>
<tr>
<td>1:D:264:VAL:HG11</td>
<td>1:E:306:GLY:HA3</td>
<td>1.67</td>
<td>0.76</td>
</tr>
<tr>
<td>1:E:430:ARG:HH11</td>
<td>1:E:430:ARG:HG2</td>
<td>1.48</td>
<td>0.76</td>
</tr>
<tr>
<td>1:A:138:CYS:CB</td>
<td>1:A:410:GLY:HA2</td>
<td>2.15</td>
<td>0.76</td>
</tr>
<tr>
<td>1:C:430:ARG:HG2</td>
<td>1:C:430:ARG:HH11</td>
<td>1.48</td>
<td>0.76</td>
</tr>
<tr>
<td>1:C:464:VAL:CG2</td>
<td>1:J:467:ASN:HB2</td>
<td>2.16</td>
<td>0.76</td>
</tr>
<tr>
<td>1:C:264:VAL:HG11</td>
<td>1:D:306:GLY:HA3</td>
<td>1.67</td>
<td>0.76</td>
</tr>
<tr>
<td>1:D:138:CYS:CB</td>
<td>1:D:411:VAL:HG13</td>
<td>2.14</td>
<td>0.76</td>
</tr>
<tr>
<td>1:A:464:VAL:CG2</td>
<td>1:H:467:ASN:HB2</td>
<td>2.16</td>
<td>0.76</td>
</tr>
<tr>
<td>1:E:138:CYS:CB</td>
<td>1:E:410:GLY:HA2</td>
<td>2.15</td>
<td>0.76</td>
</tr>
<tr>
<td>1:G:138:CYS:CB</td>
<td>1:G:410:GLY:HA2</td>
<td>2.15</td>
<td>0.76</td>
</tr>
<tr>
<td>1:G:464:VAL:CG2</td>
<td>1:N:467:ASN:HB2</td>
<td>2.16</td>
<td>0.76</td>
</tr>
<tr>
<td>1:C:464:VAL:HB</td>
<td>1:J:467:ASN:ND2</td>
<td>1.96</td>
<td>0.76</td>
</tr>
<tr>
<td>1:N:430:ARG:HH11</td>
<td>1:N:430:ARG:HG2</td>
<td>1.48</td>
<td>0.76</td>
</tr>
<tr>
<td>1:D:203:TYR:OH</td>
<td>1:E:286:LYS:CD</td>
<td>2.25</td>
<td>0.76</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:F:138:CYS:CB</td>
<td>1:F:410:GLY:HA2</td>
<td>2.15</td>
<td>0.76</td>
</tr>
<tr>
<td>1:B:172:GLU:O</td>
<td>1:B:369:VAL:HG23</td>
<td>1.86</td>
<td>0.76</td>
</tr>
<tr>
<td>1:E:138:CYS:CB</td>
<td>1:E:411:VAL:HG13</td>
<td>2.14</td>
<td>0.76</td>
</tr>
<tr>
<td>1:F:463:SER:HG</td>
<td>1:M:464:VAL:HG23</td>
<td>1.48</td>
<td>0.76</td>
</tr>
<tr>
<td>1:B:138:CYS:CB</td>
<td>1:B:410:GLY:HA2</td>
<td>2.15</td>
<td>0.75</td>
</tr>
<tr>
<td>1:B:203:TYR:OH</td>
<td>1:C:286:LYS:CD</td>
<td>2.25</td>
<td>0.75</td>
</tr>
<tr>
<td>1:I:430:ARG:HG2</td>
<td>1:I:430:ARG:HH11</td>
<td>1.48</td>
<td>0.75</td>
</tr>
<tr>
<td>1:D:138:CYS:CB</td>
<td>1:D:410:GLY:HA2</td>
<td>2.15</td>
<td>0.75</td>
</tr>
<tr>
<td>1:G:172:GLU:O</td>
<td>1:G:369:VAL:HG23</td>
<td>1.86</td>
<td>0.75</td>
</tr>
<tr>
<td>1:D:464:VAL:CG2</td>
<td>1:K:467:ASN:HB2</td>
<td>2.16</td>
<td>0.75</td>
</tr>
<tr>
<td>1:B:373:ALA:O</td>
<td>1:B:374:GLY:O</td>
<td>1.84</td>
<td>0.75</td>
</tr>
<tr>
<td>1:B:464:VAL:CG2</td>
<td>1:I:467:ASN:HB2</td>
<td>2.16</td>
<td>0.75</td>
</tr>
<tr>
<td>1:F:464:VAL:CG2</td>
<td>1:M:467:ASN:HB2</td>
<td>2.16</td>
<td>0.75</td>
</tr>
<tr>
<td>1:N:149:THR:CG2</td>
<td>1:N:156:GLU:HA</td>
<td>2.17</td>
<td>0.75</td>
</tr>
<tr>
<td>1:J:149:THR:CG2</td>
<td>1:J:156:GLU:HA</td>
<td>2.17</td>
<td>0.75</td>
</tr>
<tr>
<td>1:K:136:VAL:N</td>
<td>1:K:137:PRO:N</td>
<td>2.25</td>
<td>0.75</td>
</tr>
<tr>
<td>1:E:464:VAL:CG2</td>
<td>1:L:467:ASN:HB2</td>
<td>2.16</td>
<td>0.75</td>
</tr>
<tr>
<td>1:C:203:TYR:OH</td>
<td>1:D:286:LYS:CD</td>
<td>2.26</td>
<td>0.75</td>
</tr>
<tr>
<td>1:D:172:GLU:O</td>
<td>1:D:369:VAL:HG23</td>
<td>1.86</td>
<td>0.75</td>
</tr>
<tr>
<td>1:K:136:VAL:C</td>
<td>1:K:137:PRO:N</td>
<td>2.40</td>
<td>0.75</td>
</tr>
<tr>
<td>1:C:172:GLU:O</td>
<td>1:C:369:VAL:HG23</td>
<td>1.86</td>
<td>0.75</td>
</tr>
<tr>
<td>1:A:172:GLU:O</td>
<td>1:A:369:VAL:HG23</td>
<td>1.86</td>
<td>0.74</td>
</tr>
<tr>
<td>1:F:172:GLU:O</td>
<td>1:F:369:VAL:HG23</td>
<td>1.86</td>
<td>0.74</td>
</tr>
<tr>
<td>1:K:149:THR:CG2</td>
<td>1:K:156:GLU:HA</td>
<td>2.17</td>
<td>0.74</td>
</tr>
<tr>
<td>1:L:136:VAL:C</td>
<td>1:L:137:PRO:N</td>
<td>2.40</td>
<td>0.74</td>
</tr>
<tr>
<td>1:H:136:VAL:C</td>
<td>1:H:137:PRO:N</td>
<td>2.40</td>
<td>0.74</td>
</tr>
<tr>
<td>1:H:149:THR:CG2</td>
<td>1:H:156:GLU:HA</td>
<td>2.17</td>
<td>0.74</td>
</tr>
<tr>
<td>1:L:149:THR:CG2</td>
<td>1:L:156:GLU:HA</td>
<td>2.17</td>
<td>0.74</td>
</tr>
<tr>
<td>1:D:146:GLN:OE1</td>
<td>1:D:492:GLY:HA2</td>
<td>1.88</td>
<td>0.74</td>
</tr>
<tr>
<td>1:I:149:THR:CG2</td>
<td>1:I:156:GLU:HA</td>
<td>2.17</td>
<td>0.74</td>
</tr>
<tr>
<td>1:N:136:VAL:N</td>
<td>1:N:137:PRO:N</td>
<td>2.25</td>
<td>0.74</td>
</tr>
<tr>
<td>1:C:105:LYS:HD3</td>
<td>1:I:110:GLY:HA3</td>
<td>1.69</td>
<td>0.74</td>
</tr>
<tr>
<td>1:G:146:GLN:OE1</td>
<td>1:G:492:GLY:HA2</td>
<td>1.88</td>
<td>0.74</td>
</tr>
<tr>
<td>1:B:105:LYS:HD3</td>
<td>1:H:110:GLY:HA3</td>
<td>1.69</td>
<td>0.74</td>
</tr>
<tr>
<td>1:M:149:THR:CG2</td>
<td>1:M:156:GLU:HA</td>
<td>2.17</td>
<td>0.74</td>
</tr>
<tr>
<td>1:B:136:VAL:HA</td>
<td>1:B:137:PRO:CD</td>
<td>2.18</td>
<td>0.74</td>
</tr>
<tr>
<td>1:E:146:GLN:OE1</td>
<td>1:E:492:GLY:HA2</td>
<td>1.88</td>
<td>0.74</td>
</tr>
<tr>
<td>1:G:136:VAL:HA</td>
<td>1:G:137:PRO:CD</td>
<td>2.18</td>
<td>0.74</td>
</tr>
<tr>
<td>1:C:138:CYS:CB</td>
<td>1:C:410:GLY:HA2</td>
<td>2.15</td>
<td>0.74</td>
</tr>
<tr>
<td>1:F:136:VAL:HA</td>
<td>1:F:137:PRO:CD</td>
<td>2.18</td>
<td>0.74</td>
</tr>
</tbody>
</table>
### Atom-1  Atom-2  Interatomic distance (Å)  Clash overlap (Å)

| 1:D:105:LYS:HD3  | 1:J:110:GLY:HA3  | 1.69  | 0.74  |
| 1:J:136:VAL:C   | 1:J:137:PRO:N   | 2.40  | 0.74  |
| 1:J:136:VAL:HA  | 1:J:137:PRO:HD2 | 0.77  | 0.74  |
| 1:C:146:GLN:OE1 | 1:C:492:GLY:HA2 | 1.88  | 0.74  |
| 1:E:136:VAL:HA  | 1:E:137:PRO:CD  | 2.18  | 0.74  |
| 1:E:172:GLU:O   | 1:E:369:VAL:HG23| 1.86  | 0.74  |
| 1:I:136:VAL:C   | 1:I:137:PRO:N   | 2.40  | 0.74  |
| 1:A:136:VAL:HA  | 1:A:137:PRO:CD  | 2.18  | 0.74  |
| 1:D:136:VAL:HA  | 1:D:137:PRO:CD  | 2.18  | 0.74  |
| 1:A:105:LYS:HD3 | 1:N:110:GLY:HA3 | 1.69  | 0.74  |
| 1:N:136:VAL:C   | 1:N:137:PRO:N   | 2.40  | 0.74  |
| 1:D:138:CYS:SG  | 1:D:411:VAL:HG13| 2.28  | 0.73  |
| 1:B:146:GLN:OE1 | 1:B:492:GLY:HA2 | 1.88  | 0.73  |
| 1:C:136:VAL:HA  | 1:C:137:PRO:CD  | 2.18  | 0.73  |
| 1:F:138:CYS:SG  | 1:F:411:VAL:HG13| 2.28  | 0.73  |
| 1:G:138:CYS:SG  | 1:G:411:VAL:HG13| 2.28  | 0.73  |
| 1:A:136:VAL:HA  | 1:A:137:PRO:HD2 | 1.70  | 0.73  |
| 1:A:146:GLN:OE1 | 1:A:492:GLY:HA2 | 1.88  | 0.73  |
| 1:A:138:CYS:SG  | 1:A:411:VAL:HG13| 2.28  | 0.73  |
| 1:D:105:LYS:HD3 | 1:K:110:GLY:HA3 | 1.69  | 0.73  |
| 1:F:203:TYR:OH  | 1:G:286:LYS:CD  | 2.25  | 0.73  |
| 1:F:146:GLN:OE1 | 1:F:492:GLY:HA2 | 1.88  | 0.73  |
| 1:B:138:CYS:SG  | 1:B:411:VAL:HG13| 2.28  | 0.73  |
| 1:D:464:VAL:HG21| 1:K:467:ASN:HB2 | 1.71  | 0.73  |
| 1:C:138:CYS:SG  | 1:C:411:VAL:HG13| 2.28  | 0.73  |
| 1:G:173:GLY:HA2 | 1:G:370:ALA:HB2 | 1.71  | 0.72  |
| 1:A:136:VAL:HA  | 1:A:137:PRO:HD2 | 0.77  | 0.72  |
| 1:B:136:VAL:HA  | 1:B:137:PRO:HD2 | 1.70  | 0.72  |
| 1:E:138:CYS:SG  | 1:E:411:VAL:HG13| 2.28  | 0.72  |
| 1:M:136:VAL:C   | 1:M:137:PRO:N   | 2.40  | 0.72  |
| 1:G:173:GLY:HA2 | 1:G:370:ALA:HB2 | 1.71  | 0.72  |
| 1:A:136:VAL:HA  | 1:A:137:PRO:HD2 | 0.77  | 0.72  |
| 1:C:173:GLY:HA2 | 1:C:370:ALA:HB2 | 1.71  | 0.72  |
| 1:F:136:VAL:HA  | 1:F:137:PRO:HD2 | 1.70  | 0.72  |
| 2:O:80:PRO:O    | 2:P:110:TYR:OH  | 2.08  | 0.71  |
| 1:G:105:LYS:HD3 | 1:M:110:GLY:HA3 | 1.69  | 0.71  |

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:464:VAL:HG21</td>
<td>1:N:467:ASN:HB2</td>
<td>1.71</td>
<td>0.71</td>
</tr>
<tr>
<td>1:H:136:VAL:HA</td>
<td>1:H:137:PRO:HD2</td>
<td>0.77</td>
<td>0.71</td>
</tr>
<tr>
<td>1:F:105:LYS:HD3</td>
<td>1:L:110:GLY:HA3</td>
<td>1.69</td>
<td>0.71</td>
</tr>
<tr>
<td>1:A:173:GLY:HA2</td>
<td>1:A:370:ALA:HB2</td>
<td>1.71</td>
<td>0.71</td>
</tr>
<tr>
<td>1:D:173:GLY:HA2</td>
<td>1:D:370:ALA:HB2</td>
<td>1.71</td>
<td>0.71</td>
</tr>
<tr>
<td>2:P:102:HIS:HD2</td>
<td>2:P:104:LYS:H</td>
<td>1.38</td>
<td>0.71</td>
</tr>
<tr>
<td>1:B:173:GLY:HA2</td>
<td>1:B:370:ALA:HB2</td>
<td>1.71</td>
<td>0.71</td>
</tr>
<tr>
<td>2:S:102:HIS:HD2</td>
<td>2:S:104:LYS:H</td>
<td>1.38</td>
<td>0.71</td>
</tr>
<tr>
<td>2:R:102:HIS:HD2</td>
<td>2:R:104:LYS:H</td>
<td>1.38</td>
<td>0.71</td>
</tr>
<tr>
<td>1:M:18:ARG:CB</td>
<td>1:M:18:ARG:NH1</td>
<td>2.41</td>
<td>0.71</td>
</tr>
<tr>
<td>2:Q:80:PRO:O</td>
<td>2:R:110:TYR:OH</td>
<td>2.08</td>
<td>0.71</td>
</tr>
<tr>
<td>2:T:80:PRO:O</td>
<td>2:U:110:TYR:OH</td>
<td>2.08</td>
<td>0.71</td>
</tr>
<tr>
<td>1:A:464:VAL:HG21</td>
<td>1:H:467:ASN:HB2</td>
<td>1.71</td>
<td>0.71</td>
</tr>
<tr>
<td>1:D:373:ALA:O</td>
<td>1:D:374:GLY:O</td>
<td>1.84</td>
<td>0.71</td>
</tr>
<tr>
<td>1:H:18:ARG:CB</td>
<td>1:H:18:ARG:NH1</td>
<td>2.41</td>
<td>0.71</td>
</tr>
<tr>
<td>1:J:136:VAL:N</td>
<td>1:J:137:PRO:N</td>
<td>2.25</td>
<td>0.71</td>
</tr>
<tr>
<td>1:D:136:VAL:HA</td>
<td>1:D:137:PRO:HD2</td>
<td>1.70</td>
<td>0.71</td>
</tr>
<tr>
<td>2:R:80:PRO:O</td>
<td>2:S:110:TYR:OH</td>
<td>2.08</td>
<td>0.71</td>
</tr>
<tr>
<td>1:A:203:TYR:OH</td>
<td>1:B:286:LYS:CD</td>
<td>2.25</td>
<td>0.70</td>
</tr>
<tr>
<td>1:F:18:ARG:NH1</td>
<td>1:F:18:ARG:CB</td>
<td>2.41</td>
<td>0.70</td>
</tr>
<tr>
<td>2:U:102:HIS:HD2</td>
<td>2:U:104:LYS:H</td>
<td>1.38</td>
<td>0.70</td>
</tr>
<tr>
<td>1:J:398:ASP:O</td>
<td>1:J:401:HIS:HB2</td>
<td>1.92</td>
<td>0.70</td>
</tr>
<tr>
<td>1:K:398:ASP:O</td>
<td>1:K:401:HIS:HB2</td>
<td>1.92</td>
<td>0.70</td>
</tr>
<tr>
<td>1:N:136:VAL:HA</td>
<td>1:N:137:PRO:HD2</td>
<td>0.77</td>
<td>0.70</td>
</tr>
<tr>
<td>1:N:398:ASP:O</td>
<td>1:N:401:HIS:HB2</td>
<td>1.92</td>
<td>0.70</td>
</tr>
<tr>
<td>2:S:77:ARG:HD3</td>
<td>2:T:72:PRO:CG</td>
<td>2.22</td>
<td>0.70</td>
</tr>
<tr>
<td>1:D:18:ARG:CB</td>
<td>1:D:18:ARG:NH1</td>
<td>2.41</td>
<td>0.70</td>
</tr>
<tr>
<td>1:E:173:GLY:HA2</td>
<td>1:E:370:ALA:HB2</td>
<td>1.71</td>
<td>0.70</td>
</tr>
<tr>
<td>1:L:398:ASP:O</td>
<td>1:L:401:HIS:HB2</td>
<td>1.92</td>
<td>0.70</td>
</tr>
<tr>
<td>1:M:398:ASP:O</td>
<td>1:M:401:HIS:HB2</td>
<td>1.92</td>
<td>0.70</td>
</tr>
<tr>
<td>1:H:398:ASP:O</td>
<td>1:H:401:HIS:HB2</td>
<td>1.92</td>
<td>0.70</td>
</tr>
<tr>
<td>2:S:80:PRO:O</td>
<td>2:T:110:TYR:OH</td>
<td>2.08</td>
<td>0.70</td>
</tr>
<tr>
<td>1:F:464:VAL:HG21</td>
<td>1:M:467:ASN:HB2</td>
<td>1.71</td>
<td>0.70</td>
</tr>
<tr>
<td>2:R:77:ARG:HD3</td>
<td>2:S:72:PRO:CG</td>
<td>2.22</td>
<td>0.70</td>
</tr>
<tr>
<td>1:J:398:ASP:O</td>
<td>1:J:401:HIS:HB2</td>
<td>1.92</td>
<td>0.70</td>
</tr>
<tr>
<td>1:L:192:GLY:HA3</td>
<td>1:L:376:VAL:CG2</td>
<td>2.22</td>
<td>0.70</td>
</tr>
<tr>
<td>2:T:102:HIS:HD2</td>
<td>2:T:104:LYS:H</td>
<td>1.38</td>
<td>0.69</td>
</tr>
<tr>
<td>1:N:192:GLY:HA3</td>
<td>1:N:376:VAL:CG2</td>
<td>2.22</td>
<td>0.69</td>
</tr>
<tr>
<td>2:T:77:ARG:HD3</td>
<td>2:U:72:PRO:CG</td>
<td>2.22</td>
<td>0.69</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:I:138:CYS:HB2</td>
<td>1:I:410:GLY:C</td>
<td>2.13</td>
<td>0.69</td>
</tr>
<tr>
<td>2:P:80:PRO:O</td>
<td>2:Q:110:TYR:OH</td>
<td>2.08</td>
<td>0.69</td>
</tr>
<tr>
<td>2:R:80:PRO:CG</td>
<td>2:S:70:SER:OG</td>
<td>2.40</td>
<td>0.69</td>
</tr>
<tr>
<td>2:O:110:TYR:OH</td>
<td>2:U:80:PRO:O</td>
<td>2.08</td>
<td>0.69</td>
</tr>
<tr>
<td>1:K:136:VAL:HA</td>
<td>1:K:137:PRO:HD2</td>
<td>0.77</td>
<td>0.69</td>
</tr>
<tr>
<td>1:K:138:CYS:HB2</td>
<td>1:K:410:GLY:C</td>
<td>2.12</td>
<td>0.69</td>
</tr>
<tr>
<td>2:O:72:PRO:CG</td>
<td>2:U:77:ARG:HD3</td>
<td>2.22</td>
<td>0.69</td>
</tr>
<tr>
<td>2:O:77:ARG:HD3</td>
<td>2:P:72:PRO:CG</td>
<td>2.22</td>
<td>0.69</td>
</tr>
<tr>
<td>2:Q:80:PRO:CG</td>
<td>2:R:70:SER:OG</td>
<td>2.40</td>
<td>0.69</td>
</tr>
<tr>
<td>1:K:176:THR:HG21</td>
<td>1:K:333:ILE:HD11</td>
<td>1.75</td>
<td>0.69</td>
</tr>
<tr>
<td>1:L:176:THR:HG21</td>
<td>1:L:333:ILE:HD11</td>
<td>1.75</td>
<td>0.69</td>
</tr>
<tr>
<td>1:N:176:THR:HG21</td>
<td>1:N:333:ILE:HD11</td>
<td>1.75</td>
<td>0.69</td>
</tr>
<tr>
<td>1:H:176:THR:HG21</td>
<td>1:H:333:ILE:HD11</td>
<td>1.75</td>
<td>0.69</td>
</tr>
<tr>
<td>1:K:192:GLY:HA3</td>
<td>1:K:376:VAL:CG2</td>
<td>2.22</td>
<td>0.69</td>
</tr>
<tr>
<td>1:L:138:CYS:HB2</td>
<td>1:L:410:GLY:C</td>
<td>2.13</td>
<td>0.69</td>
</tr>
<tr>
<td>1:L:175:ILE:HD12</td>
<td>1:L:175:ILE:N</td>
<td>2.08</td>
<td>0.69</td>
</tr>
<tr>
<td>1:M:176:THR:HG21</td>
<td>1:M:333:ILE:HD11</td>
<td>1.75</td>
<td>0.69</td>
</tr>
<tr>
<td>1:J:192:GLY:HA3</td>
<td>1:J:376:VAL:CG2</td>
<td>2.22</td>
<td>0.69</td>
</tr>
<tr>
<td>1:M:136:VAL:HA</td>
<td>1:M:137:PRO:HD2</td>
<td>0.77</td>
<td>0.69</td>
</tr>
<tr>
<td>1:M:157:THR:O</td>
<td>1:M:160:LYS:HB3</td>
<td>1.93</td>
<td>0.69</td>
</tr>
<tr>
<td>1:M:414:GLY:O</td>
<td>1:M:417:VAL:CG1</td>
<td>2.41</td>
<td>0.69</td>
</tr>
<tr>
<td>1:J:192:GLY:HA3</td>
<td>1:J:376:VAL:CG2</td>
<td>2.22</td>
<td>0.69</td>
</tr>
<tr>
<td>1:N:137:PRO:C</td>
<td>1:N:410:GLY:CA</td>
<td>2.62</td>
<td>0.69</td>
</tr>
<tr>
<td>2:P:80:PRO:CG</td>
<td>2:Q:70:SER:OG</td>
<td>2.40</td>
<td>0.69</td>
</tr>
<tr>
<td>1:B:18:ARG:CG</td>
<td>1:B:18:ARG:HH11</td>
<td>2.06</td>
<td>0.68</td>
</tr>
<tr>
<td>1:B:414:GLY:O</td>
<td>1:B:417:VAL:CG1</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:H:18:ARG:CG</td>
<td>1:H:18:ARG:HH11</td>
<td>2.06</td>
<td>0.68</td>
</tr>
<tr>
<td>1:J:176:THR:HG21</td>
<td>1:J:333:ILE:HD11</td>
<td>1.75</td>
<td>0.68</td>
</tr>
<tr>
<td>1:L:157:THR:O</td>
<td>1:L:160:LYS:HB3</td>
<td>1.93</td>
<td>0.68</td>
</tr>
<tr>
<td>1:M:137:PRO:C</td>
<td>1:M:410:GLY:CA</td>
<td>2.62</td>
<td>0.68</td>
</tr>
<tr>
<td>1:N:157:THR:O</td>
<td>1:N:160:LYS:HB3</td>
<td>1.93</td>
<td>0.68</td>
</tr>
<tr>
<td>2:O:102:HIS:HD2</td>
<td>2:O:104:LYS:H</td>
<td>1.38</td>
<td>0.68</td>
</tr>
<tr>
<td>1:H:192:GLY:HA3</td>
<td>1:H:376:VAL:CG2</td>
<td>2.22</td>
<td>0.68</td>
</tr>
<tr>
<td>1:I:175:ILE:N</td>
<td>1:I:175:ILE:HD12</td>
<td>2.08</td>
<td>0.68</td>
</tr>
<tr>
<td>1:L:414:GLY:O</td>
<td>1:L:417:VAL:CG1</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:N:192:GLY:C</td>
<td>1:N:376:VAL:HG23</td>
<td>2.14</td>
<td>0.68</td>
</tr>
<tr>
<td>2:Q:77:ARG:HD3</td>
<td>2:R:72:PRO:CG</td>
<td>2.22</td>
<td>0.68</td>
</tr>
<tr>
<td>1:A:18:ARG:CG</td>
<td>1:A:18:ARG:HH11</td>
<td>2.06</td>
<td>0.68</td>
</tr>
<tr>
<td>1:D:414:GLY:O</td>
<td>1:D:417:VAL:CG1</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:E:18:ARG:NH1</td>
<td>1:E:18:ARG:CB</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:K:157:THR:O</td>
<td>1:K:160:LYS:HB3</td>
<td>1.93</td>
<td>0.68</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:K:175:ILE:N</td>
<td>1:K:175:ILE:HD12</td>
<td>2.08</td>
<td>0.68</td>
</tr>
<tr>
<td>1:K:137:PRO:C</td>
<td>1:K:410:GLY:CA</td>
<td>2.62</td>
<td>0.68</td>
</tr>
<tr>
<td>1:L:381:VAL:HB</td>
<td>1:L:389:MET:HE3</td>
<td>1.76</td>
<td>0.68</td>
</tr>
<tr>
<td>1:N:414:GLY:O</td>
<td>1:N:417:VAL:CG1</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:A:414:GLY:O</td>
<td>1:A:417:VAL:CG1</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:C:18:ARG:CG</td>
<td>1:C:18:ARG:HH11</td>
<td>2.07</td>
<td>0.68</td>
</tr>
<tr>
<td>1:E:414:GLY:O</td>
<td>1:E:417:VAL:CG1</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:F:414:GLY:O</td>
<td>1:F:417:VAL:CG1</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:I:192:GLY:C</td>
<td>1:I:376:VAL:HG23</td>
<td>2.14</td>
<td>0.68</td>
</tr>
<tr>
<td>1:K:381:VAL:HB</td>
<td>1:K:389:MET:HE3</td>
<td>1.76</td>
<td>0.68</td>
</tr>
<tr>
<td>1:M:175:ILE:HD12</td>
<td>1:M:175:ILE:N</td>
<td>2.08</td>
<td>0.68</td>
</tr>
<tr>
<td>2:P:77:ARG:HD3</td>
<td>2:Q:72:PRO:CG</td>
<td>2.22</td>
<td>0.68</td>
</tr>
<tr>
<td>1:C:18:ARG:NH1</td>
<td>1:C:18:ARG:CB</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:G:414:GLY:O</td>
<td>1:G:417:VAL:CG1</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:I:18:ARG:NH1</td>
<td>1:I:18:ARG:CB</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:I:137:PRO:C</td>
<td>1:I:410:GLY:CA</td>
<td>2.62</td>
<td>0.68</td>
</tr>
<tr>
<td>1:C:138:CYS:N</td>
<td>1:C:410:GLY:HA2</td>
<td>2.09</td>
<td>0.68</td>
</tr>
<tr>
<td>1:G:18:ARG:CG</td>
<td>1:G:18:ARG:HH11</td>
<td>2.06</td>
<td>0.68</td>
</tr>
<tr>
<td>1:I:176:THR:HG21</td>
<td>1:I:333:ILE:HD11</td>
<td>1.75</td>
<td>0.68</td>
</tr>
<tr>
<td>1:I:18:ARG:HH11</td>
<td>1:I:18:ARG:CG</td>
<td>2.07</td>
<td>0.68</td>
</tr>
<tr>
<td>1:I:192:GLY:C</td>
<td>1:I:376:VAL:HG23</td>
<td>2.14</td>
<td>0.68</td>
</tr>
<tr>
<td>1:N:381:VAL:HB</td>
<td>1:N:389:MET:HE3</td>
<td>1.76</td>
<td>0.68</td>
</tr>
<tr>
<td>1:D:18:ARG:CG</td>
<td>1:D:18:ARG:HH11</td>
<td>2.06</td>
<td>0.68</td>
</tr>
<tr>
<td>1:H:137:PRO:C</td>
<td>1:H:410:GLY:CA</td>
<td>2.62</td>
<td>0.68</td>
</tr>
<tr>
<td>1:H:157:THR:O</td>
<td>1:H:160:LYS:HB3</td>
<td>1.93</td>
<td>0.68</td>
</tr>
<tr>
<td>1:I:157:THR:O</td>
<td>1:I:160:LYS:HB3</td>
<td>1.93</td>
<td>0.68</td>
</tr>
<tr>
<td>2:O:80:PRO:CG</td>
<td>2:P:70:SER:OG</td>
<td>2.40</td>
<td>0.68</td>
</tr>
<tr>
<td>1:F:18:ARG:CG</td>
<td>1:F:18:ARG:HH11</td>
<td>2.06</td>
<td>0.68</td>
</tr>
<tr>
<td>1:I:157:THR:O</td>
<td>1:I:160:LYS:HB3</td>
<td>1.93</td>
<td>0.68</td>
</tr>
<tr>
<td>1:M:138:CYS:HB2</td>
<td>1:M:410:GLY:C</td>
<td>2.12</td>
<td>0.68</td>
</tr>
<tr>
<td>1:M:18:ARG:CG</td>
<td>1:M:18:ARG:HH11</td>
<td>2.06</td>
<td>0.68</td>
</tr>
<tr>
<td>1:E:18:ARG:HH11</td>
<td>1:E:18:ARG:CG</td>
<td>2.06</td>
<td>0.68</td>
</tr>
<tr>
<td>1:H:175:ILE:N</td>
<td>1:H:175:ILE:HD12</td>
<td>2.08</td>
<td>0.68</td>
</tr>
<tr>
<td>1:I:137:PRO:C</td>
<td>1:I:410:GLY:CA</td>
<td>2.62</td>
<td>0.68</td>
</tr>
<tr>
<td>1:L:137:PRO:C</td>
<td>1:L:410:GLY:CA</td>
<td>2.62</td>
<td>0.68</td>
</tr>
<tr>
<td>1:K:414:GLY:O</td>
<td>1:K:417:VAL:CG1</td>
<td>2.41</td>
<td>0.68</td>
</tr>
<tr>
<td>1:L:192:GLY:C</td>
<td>1:L:376:VAL:HG23</td>
<td>2.14</td>
<td>0.68</td>
</tr>
<tr>
<td>1:M:192:GLY:C</td>
<td>1:M:376:VAL:HG23</td>
<td>2.14</td>
<td>0.68</td>
</tr>
<tr>
<td>1:M:192:GLY:HA3</td>
<td>1:M:376:VAL:CG2</td>
<td>2.22</td>
<td>0.68</td>
</tr>
<tr>
<td>1:I:404:ARG:O</td>
<td>1:I:408:GLU:HG3</td>
<td>1.94</td>
<td>0.67</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:T:80:PRO:CG</td>
<td>2:U:70:SER:OG</td>
<td>2.40</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:414:GLY:O</td>
<td>1:C:417:VAL:CG1</td>
<td>2.41</td>
<td>0.67</td>
</tr>
<tr>
<td>1:H:404:ARG:O</td>
<td>1:H:408:GLU:HG3</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>1:I:381:VAL:HB</td>
<td>1:I:389:MET:HE3</td>
<td>1.76</td>
<td>0.67</td>
</tr>
<tr>
<td>1:J:381:VAL:HB</td>
<td>1:I:389:MET:HE3</td>
<td>1.76</td>
<td>0.67</td>
</tr>
<tr>
<td>1:A:138:CYS:N</td>
<td>1:A:410:GLY:HA2</td>
<td>2.09</td>
<td>0.67</td>
</tr>
<tr>
<td>1:E:138:CYS:N</td>
<td>1:E:410:GLY:HA2</td>
<td>2.09</td>
<td>0.67</td>
</tr>
<tr>
<td>1:B:138:CYS:N</td>
<td>1:B:410:GLY:HA2</td>
<td>2.09</td>
<td>0.67</td>
</tr>
<tr>
<td>1:I:18:ARG:CG</td>
<td>1:I:18:ARG:HH11</td>
<td>2.07</td>
<td>0.67</td>
</tr>
<tr>
<td>1:J:192:GLY:HA3</td>
<td>1:I:376:VAL:HG23</td>
<td>1.76</td>
<td>0.67</td>
</tr>
<tr>
<td>1:J:192:GLY:HA3</td>
<td>1:I:376:VAL:HG23</td>
<td>1.76</td>
<td>0.67</td>
</tr>
<tr>
<td>1:N:18:ARG:HH11</td>
<td>1:N:18:ARG:CG</td>
<td>2.06</td>
<td>0.67</td>
</tr>
<tr>
<td>1:A:304:GLU:OE2</td>
<td>1:G:203:TYR:HE2</td>
<td>1.78</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:209:GLU:O</td>
<td>1:D:351:GLN:NE2</td>
<td>2.28</td>
<td>0.67</td>
</tr>
<tr>
<td>1:J:414:GLY:O</td>
<td>1:J:417:VAL:CG1</td>
<td>2.41</td>
<td>0.67</td>
</tr>
<tr>
<td>1:K:192:GLY:C</td>
<td>1:K:376:VAL:HG23</td>
<td>2.14</td>
<td>0.67</td>
</tr>
<tr>
<td>2:P:82:PRO:CA</td>
<td>2:Q:110:TYR:CE1</td>
<td>2.78</td>
<td>0.67</td>
</tr>
<tr>
<td>1:E:209:GLU:O</td>
<td>1:F:351:GLN:NE2</td>
<td>2.28</td>
<td>0.67</td>
</tr>
<tr>
<td>1:F:410:GLY:HA2</td>
<td>1:F:138:CYS:N</td>
<td>2.09</td>
<td>0.67</td>
</tr>
<tr>
<td>1:G:138:CYS:N</td>
<td>1:G:410:GLY:HA2</td>
<td>2.09</td>
<td>0.67</td>
</tr>
<tr>
<td>1:A:351:GLN:NE2</td>
<td>1:G:209:GLU:O</td>
<td>2.28</td>
<td>0.67</td>
</tr>
<tr>
<td>1:J:175:ILE:HD12</td>
<td>1:J:175:ILE:N</td>
<td>2.08</td>
<td>0.67</td>
</tr>
<tr>
<td>1:L:136:VAL:HA</td>
<td>1:L:137:PRO:HD2</td>
<td>0.77</td>
<td>0.67</td>
</tr>
<tr>
<td>1:L:404:ARG:O</td>
<td>1:L:408:GLU:HG3</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>1:A:203:TYR:HE2</td>
<td>1:B:304:GLU:OE2</td>
<td>1.78</td>
<td>0.67</td>
</tr>
<tr>
<td>1:D:138:CYS:N</td>
<td>1:D:410:GLY:HA2</td>
<td>2.09</td>
<td>0.67</td>
</tr>
<tr>
<td>1:F:209:GLU:O</td>
<td>1:G:351:GLN:NE2</td>
<td>2.28</td>
<td>0.67</td>
</tr>
<tr>
<td>1:I:414:GLY:O</td>
<td>1:I:417:VAL:CG1</td>
<td>2.41</td>
<td>0.67</td>
</tr>
<tr>
<td>1:J:404:ARG:O</td>
<td>1:J:408:GLU:HG3</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>1:N:175:ILE:HD12</td>
<td>1:N:175:ILE:N</td>
<td>2.08</td>
<td>0.67</td>
</tr>
<tr>
<td>1:N:404:ARG:O</td>
<td>1:N:408:GLU:HG3</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>1:B:417:VAL:HG11</td>
<td>1:B:488:MET:HG3</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>1:G:13:ARG:HD2</td>
<td>1:G:104:LEU:HD22</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>1:H:381:VAL:HB</td>
<td>1:H:389:MET:HE3</td>
<td>1.76</td>
<td>0.67</td>
</tr>
<tr>
<td>1:K:18:ARG:CG</td>
<td>1:K:18:ARG:HH11</td>
<td>2.07</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:13:ARG:HD2</td>
<td>1:C:104:LEU:HD22</td>
<td>1.77</td>
<td>0.67</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:D:13:ARG:HD2</td>
<td>1:D:104:LEU:HD22</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>1:F:203:TYR:HE2</td>
<td>1:G:304:GLU:OE2</td>
<td>1.78</td>
<td>0.67</td>
</tr>
<tr>
<td>1:G:138:CYS:HB3</td>
<td>1:G:410:GLY:CA</td>
<td>2.22</td>
<td>0.67</td>
</tr>
<tr>
<td>1:L:13:ARG:HD2</td>
<td>1:L:104:LEU:HD22</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>2:Q:77:ARG:HD3</td>
<td>2:R:72:PRO:HG2</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>2:R:77:ARG:HD3</td>
<td>2:S:72:PRO:HG2</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>2:S:82:PRO:CA</td>
<td>2:S:110:TYR:CE1</td>
<td>2.78</td>
<td>0.67</td>
</tr>
<tr>
<td>1:K:192:GLY:HA3</td>
<td>1:K:376:VAL:HG23</td>
<td>1.76</td>
<td>0.67</td>
</tr>
<tr>
<td>2:S:80:PRO:CG</td>
<td>2:T:70:SER:OG</td>
<td>2.40</td>
<td>0.67</td>
</tr>
<tr>
<td>1:A:74:VAL:O</td>
<td>1:A:77:VAL:HG13</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>1:C:417:VAL:HG11</td>
<td>1:C:488:MET:HG3</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:F:74:VAL:O</td>
<td>1:F:77:VAL:HG13</td>
<td>1.96</td>
<td>0.66</td>
</tr>
<tr>
<td>1:J:18:ARG:CB</td>
<td>1:J:18:ARG:NH1</td>
<td>2.41</td>
<td>0.66</td>
</tr>
<tr>
<td>1:A:209:GLU:O</td>
<td>1:B:351:GLN:NE2</td>
<td>2.28</td>
<td>0.66</td>
</tr>
<tr>
<td>1:C:150:ILE:HD11</td>
<td>1:C:493:ILE:HA</td>
<td>1.78</td>
<td>0.66</td>
</tr>
<tr>
<td>1:D:150:ILE:HD11</td>
<td>1:D:493:ILE:HA</td>
<td>1.78</td>
<td>0.66</td>
</tr>
<tr>
<td>1:G:74:VAL:O</td>
<td>1:G:77:VAL:HG13</td>
<td>1.96</td>
<td>0.66</td>
</tr>
<tr>
<td>1:H:192:GLY:HA3</td>
<td>1:H:376:VAL:HG23</td>
<td>1.76</td>
<td>0.66</td>
</tr>
<tr>
<td>1:H:74:VAL:O</td>
<td>1:H:77:VAL:HG13</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>1:J:13:ARG:HD2</td>
<td>1:J:104:LEU:HD22</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:K:13:ARG:HD2</td>
<td>1:K:104:LEU:HD22</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:L:18:ARG:HH11</td>
<td>1:L:18:ARG:CG</td>
<td>2.06</td>
<td>0.66</td>
</tr>
<tr>
<td>2:T:82:PRO:CA</td>
<td>2:U:110:TYR:CE1</td>
<td>2.78</td>
<td>0.66</td>
</tr>
<tr>
<td>1:A:138:CYS:HB3</td>
<td>1:A:410:GLY:CA</td>
<td>2.22</td>
<td>0.66</td>
</tr>
<tr>
<td>1:E:74:VAL:O</td>
<td>1:E:77:VAL:HG13</td>
<td>1.96</td>
<td>0.66</td>
</tr>
<tr>
<td>1:F:138:CYS:HB3</td>
<td>1:F:410:GLY:CA</td>
<td>2.22</td>
<td>0.66</td>
</tr>
<tr>
<td>1:K:404:ARG:O</td>
<td>1:K:408:GLU:HG3</td>
<td>1.94</td>
<td>0.66</td>
</tr>
<tr>
<td>1:L:74:VAL:O</td>
<td>1:L:77:VAL:HG13</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>1:M:381:VAL:HB</td>
<td>1:M:389:MET:HE3</td>
<td>1.76</td>
<td>0.66</td>
</tr>
<tr>
<td>2:Q:82:PRO:CA</td>
<td>2:T:110:TYR:CE1</td>
<td>2.78</td>
<td>0.66</td>
</tr>
<tr>
<td>2:S:77:ARG:HD3</td>
<td>2:T:72:PRO:HG2</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:E:150:ILE:HD11</td>
<td>1:E:493:ILE:HA</td>
<td>1.78</td>
<td>0.66</td>
</tr>
<tr>
<td>1:I:13:ARG:HD2</td>
<td>1:I:104:LEU:HD22</td>
<td>1.78</td>
<td>0.66</td>
</tr>
<tr>
<td>1:I:74:VAL:O</td>
<td>1:I:77:VAL:HG13</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>2:S:82:PRO:CA</td>
<td>2:T:110:TYR:CE1</td>
<td>2.78</td>
<td>0.66</td>
</tr>
<tr>
<td>1:A:18:ARG:CB</td>
<td>1:A:18:ARG:NH1</td>
<td>2.41</td>
<td>0.66</td>
</tr>
<tr>
<td>1:E:13:ARG:HD2</td>
<td>1:E:104:LEU:HD22</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:L:452:ARG:HG2</td>
<td>1:L:452:ARG:NH1</td>
<td>2.11</td>
<td>0.66</td>
</tr>
<tr>
<td>2:T:77:ARG:HD3</td>
<td>2:U:72:PRO:HG2</td>
<td>1.77</td>
<td>0.66</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:B:13:ARG:HD2</td>
<td>1:B:104:LEU:HD22</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:B:209:GLU:O</td>
<td>1:C:351:GLN:NE2</td>
<td>2.28</td>
<td>0.66</td>
</tr>
<tr>
<td>1:D:138:CYS:HB3</td>
<td>1:D:410:GLY:CA</td>
<td>2.22</td>
<td>0.66</td>
</tr>
<tr>
<td>1:D:209:GLU:O</td>
<td>1:E:351:GLN:NE2</td>
<td>2.28</td>
<td>0.66</td>
</tr>
<tr>
<td>1:G:417:VAL:HG11</td>
<td>1:G:488:MET:HG3</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:I:452:ARG:HG2</td>
<td>1:I:452:ARG:HG2</td>
<td>2.11</td>
<td>0.66</td>
</tr>
<tr>
<td>1:J:417:VAL:HG11</td>
<td>1:J:488:MET:HG3</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:M:13:ARG:HD2</td>
<td>1:M:104:LEU:HD22</td>
<td>1.78</td>
<td>0.66</td>
</tr>
<tr>
<td>1:N:147:VAL:CG2</td>
<td>1:N:496:PRO:HG3</td>
<td>2.14</td>
<td>0.66</td>
</tr>
<tr>
<td>1:B:138:CYS:HB3</td>
<td>1:B:410:GLY:CA</td>
<td>2.22</td>
<td>0.66</td>
</tr>
<tr>
<td>1:B:452:ARG:HG2</td>
<td>1:B:452:ARG:NH1</td>
<td>2.11</td>
<td>0.66</td>
</tr>
<tr>
<td>1:B:74:VAL:O</td>
<td>1:B:77:VAL:HG13</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>1:K:18:ARG:CB</td>
<td>1:K:18:ARG:NH1</td>
<td>2.41</td>
<td>0.66</td>
</tr>
<tr>
<td>2:O:82:PRO:CA</td>
<td>2:P:110:TYR:CE1</td>
<td>2.78</td>
<td>0.66</td>
</tr>
<tr>
<td>2:P:77:ARG:HD3</td>
<td>2:Q:72:PRO:HG2</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:L:417:VAL:HG11</td>
<td>1:L:488:MET:HG3</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:M:74:VAL:O</td>
<td>1:M:77:VAL:HG13</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>1:B:150:ILE:HD11</td>
<td>1:B:493:ILE:HA</td>
<td>1.78</td>
<td>0.66</td>
</tr>
<tr>
<td>1:B:203:TYR:HE2</td>
<td>1:C:304:GLU:OE2</td>
<td>1.78</td>
<td>0.66</td>
</tr>
<tr>
<td>1:E:138:CYS:HB3</td>
<td>1:E:410:GLY:CA</td>
<td>2.22</td>
<td>0.66</td>
</tr>
<tr>
<td>1:I:138:CYS:N</td>
<td>1:I:410:GLY:HA2</td>
<td>2.11</td>
<td>0.66</td>
</tr>
<tr>
<td>1:L:192:GLY:HA3</td>
<td>1:L:376:VAL:HG23</td>
<td>1.76</td>
<td>0.66</td>
</tr>
<tr>
<td>1:M:417:VAL:HG11</td>
<td>1:M:488:MET:HG3</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:L:3:ALA:HB1</td>
<td>1:M:63:GLU:HB2</td>
<td>1.78</td>
<td>0.65</td>
</tr>
<tr>
<td>1:A:452:ARG:NH1</td>
<td>1:A:452:ARG:HG2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:C:138:CYS:HB3</td>
<td>1:C:410:GLY:CA</td>
<td>2.22</td>
<td>0.65</td>
</tr>
<tr>
<td>1:J:138:CYS:N</td>
<td>1:J:410:GLY:HA2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:K:452:ARG:NH1</td>
<td>1:K:452:ARG:HG2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:K:417:VAL:HG11</td>
<td>1:K:488:MET:HG3</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>1:M:404:ARG:O</td>
<td>1:M:408:GLU:HG3</td>
<td>1.94</td>
<td>0.65</td>
</tr>
<tr>
<td>1:D:417:VAL:HG11</td>
<td>1:D:488:MET:HG3</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>1:J:74:VAL:O</td>
<td>1:J:77:VAL:HG13</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>1:L:3:ALA:HB1</td>
<td>1:M:63:GLU:HB2</td>
<td>1.78</td>
<td>0.66</td>
</tr>
<tr>
<td>1:A:452:ARG:NH1</td>
<td>1:A:452:ARG:HG2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:C:138:CYS:HB3</td>
<td>1:C:410:GLY:CA</td>
<td>2.22</td>
<td>0.65</td>
</tr>
<tr>
<td>1:J:138:CYS:N</td>
<td>1:J:410:GLY:HA2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:K:452:ARG:NH1</td>
<td>1:K:452:ARG:HG2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:K:417:VAL:HG11</td>
<td>1:K:488:MET:HG3</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>1:M:404:ARG:O</td>
<td>1:M:408:GLU:HG3</td>
<td>1.94</td>
<td>0.65</td>
</tr>
<tr>
<td>1:D:417:VAL:HG11</td>
<td>1:D:488:MET:HG3</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>1:D:74:VAL:O</td>
<td>1:D:77:VAL:HG13</td>
<td>1.96</td>
<td>0.65</td>
</tr>
<tr>
<td>1:E:417:VAL:HG11</td>
<td>1:E:488:MET:HG3</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>1:H:138:CYS:N</td>
<td>1:H:410:GLY:HA2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:I:155:ASP:OD1</td>
<td>1:I:158:VAL:HG23</td>
<td>1.97</td>
<td>0.65</td>
</tr>
<tr>
<td>1:E:464:VAL:HG21</td>
<td>1:L:467:ASN:HB2</td>
<td>1.71</td>
<td>0.65</td>
</tr>
<tr>
<td>1:M:155:ASP:OD1</td>
<td>1:M:158:VAL:HG23</td>
<td>1.97</td>
<td>0.65</td>
</tr>
</tbody>
</table>

*Continued on next page...*
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:P:102:HIS:CD2</td>
<td>2:P:104:LYS:H</td>
<td>2.15</td>
<td>0.65</td>
</tr>
<tr>
<td>1:H:138:CYS:HB2</td>
<td>1:H:410:GLY:C</td>
<td>2.12</td>
<td>0.65</td>
</tr>
<tr>
<td>1:K:155:ASP:OD1</td>
<td>1:K:158:VAL:HG23</td>
<td>1.97</td>
<td>0.65</td>
</tr>
<tr>
<td>2:O:72:PRO:HG2</td>
<td>2:U:77:ARG:HD3</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>1:E:452:ARG:NH1</td>
<td>1:E:452:ARG:HG2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:H:452:ARG:NH1</td>
<td>1:H:452:ARG:HG2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:J:452:ARG:HG2</td>
<td>1:J:452:ARG:NH1</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:K:74:VAL:O</td>
<td>1:K:77:VAL:HG13</td>
<td>1.95</td>
<td>0.65</td>
</tr>
<tr>
<td>1:M:452:ARG:HG2</td>
<td>1:M:452:ARG:NH1</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>2:T:102:HIS:CD2</td>
<td>2:T:104:LYS:H</td>
<td>2.15</td>
<td>0.65</td>
</tr>
<tr>
<td>1:E:203:TYR:HE2</td>
<td>1:F:304:GLU:OE2</td>
<td>1.78</td>
<td>0.65</td>
</tr>
<tr>
<td>1:H:3:ALA:HB1</td>
<td>1:I:63:GLU:HB2</td>
<td>1.78</td>
<td>0.65</td>
</tr>
<tr>
<td>1:K:138:CYS:N</td>
<td>1:K:410:GLY:HA2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:K:448:GLU:HB3</td>
<td>1:K:452:ARG:HD2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>1:N:13:ARG:HD2</td>
<td>1:N:104:LEU:HD22</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>1:H:63:GLU:HB2</td>
<td>1:N:3:ALA:HB1</td>
<td>1.78</td>
<td>0.65</td>
</tr>
<tr>
<td>2:O:110:TYR:CE1</td>
<td>2:U:82:PRO:CA</td>
<td>2.78</td>
<td>0.65</td>
</tr>
<tr>
<td>1:C:448:GLU:HB3</td>
<td>1:C:452:ARG:HD2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>1/J:155:ASP:OD1</td>
<td>1/J:158:VAL:HG23</td>
<td>1.97</td>
<td>0.65</td>
</tr>
<tr>
<td>1:L:448:GLU:HB3</td>
<td>1:L:452:ARG:HD2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>1:N:417:VAL:HG11</td>
<td>1:N:488:MET:HG3</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>2:R:102:HIS:CD2</td>
<td>2:R:104:LYS:H</td>
<td>2.15</td>
<td>0.65</td>
</tr>
<tr>
<td>1:C:74:VAL:O</td>
<td>1:C:77:VAL:HG13</td>
<td>1.96</td>
<td>0.65</td>
</tr>
<tr>
<td>1:C:203:TYR:HH</td>
<td>1:D:286:LYS:HD3</td>
<td>1.57</td>
<td>0.65</td>
</tr>
<tr>
<td>1:D:448:GLU:HB3</td>
<td>1:D:452:ARG:HD2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>1:E:448:GLU:HB3</td>
<td>1:E:452:ARG:HD2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>1:F:146:GLN:HB2</td>
<td>1:F:494:LEU:CD1</td>
<td>2.27</td>
<td>0.65</td>
</tr>
<tr>
<td>1:H:417:VAL:HG11</td>
<td>1:H:488:MET:HG3</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>1:J:448:GLU:HB3</td>
<td>1:J:452:ARG:HD2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>1:M:192:GLY:HA3</td>
<td>1:M:376:VAL:HG23</td>
<td>1.76</td>
<td>0.65</td>
</tr>
<tr>
<td>1:N:155:ASP:OD1</td>
<td>1:N:158:VAL:HG23</td>
<td>1.97</td>
<td>0.65</td>
</tr>
<tr>
<td>1:N:138:CYS:N</td>
<td>1:N:410:GLY:HA2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:F:448:GLU:HB3</td>
<td>1:F:452:ARG:HD2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>1:F:452:ARG:NH1</td>
<td>1:F:452:ARG:HG2</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>1:G:146:GLN:HB2</td>
<td>1:G:494:LEU:CD1</td>
<td>2.27</td>
<td>0.65</td>
</tr>
<tr>
<td>1:L:18:ARG:CB</td>
<td>1:L:18:ARG:NH1</td>
<td>2.41</td>
<td>0.65</td>
</tr>
<tr>
<td>1:M:448:GLU:HB3</td>
<td>1:M:452:ARG:HD2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>1:N:74:VAL:O</td>
<td>1:N:77:VAL:HG13</td>
<td>1.95</td>
<td>0.65</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:O:77:ARG:HD3</td>
<td>2:P:72:PRO:HG2</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>1:B:18:ARG:CB</td>
<td>1:B:18:ARG:NH1</td>
<td>2.41</td>
<td>0.65</td>
</tr>
<tr>
<td>1:B:146:GLN:HB2</td>
<td>1:B:494:LEU:CD1</td>
<td>2.27</td>
<td>0.65</td>
</tr>
<tr>
<td>1:C:146:GLN:HB2</td>
<td>1:C:494:LEU:CD1</td>
<td>2.27</td>
<td>0.65</td>
</tr>
<tr>
<td>1:G:150:ILE:HD11</td>
<td>1:G:493:ILE:HA</td>
<td>1.78</td>
<td>0.65</td>
</tr>
<tr>
<td>1:M:147:VAL:CG2</td>
<td>1:M:496:PRO:HG3</td>
<td>2.14</td>
<td>0.65</td>
</tr>
<tr>
<td>1:N:192:GLY:HA3</td>
<td>1:N:376:VAL:HG23</td>
<td>1.76</td>
<td>0.65</td>
</tr>
<tr>
<td>1:N:448:GLU:HB3</td>
<td>1:N:452:ARG:HD2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>2:O:102:HIS:CD2</td>
<td>2:O:104:LYS:H</td>
<td>2.15</td>
<td>0.65</td>
</tr>
<tr>
<td>1:A:146:GLN:HB2</td>
<td>1:A:494:LEU:CD1</td>
<td>2.27</td>
<td>0.64</td>
</tr>
<tr>
<td>1:D:146:GLN:HB2</td>
<td>1:D:494:LEU:CD1</td>
<td>2.27</td>
<td>0.64</td>
</tr>
<tr>
<td>1:E:146:GLN:HB2</td>
<td>1:E:494:LEU:CD1</td>
<td>2.27</td>
<td>0.64</td>
</tr>
<tr>
<td>1:M:3:ALA:HB1</td>
<td>1:N:63:GLU:HB2</td>
<td>1.78</td>
<td>0.64</td>
</tr>
<tr>
<td>1:B:448:GLU:HB3</td>
<td>1:B:452:ARG:HD2</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>1:H:448:GLU:HB3</td>
<td>1:H:452:ARG:HD2</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>1:I:448:GLU:HB3</td>
<td>1:I:452:ARG:HD2</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>1:D:452:ARG:HG2</td>
<td>1:D:452:ARG:NH1</td>
<td>2.11</td>
<td>0.64</td>
</tr>
<tr>
<td>1:L:138:CYS:N</td>
<td>1:L:410:GLY:HA2</td>
<td>2.11</td>
<td>0.64</td>
</tr>
<tr>
<td>1:3:ALA:HB1</td>
<td>1:J:63:GLU:HB2</td>
<td>1.78</td>
<td>0.64</td>
</tr>
<tr>
<td>1:M:138:CYS:N</td>
<td>1:M:410:GLY:HA2</td>
<td>2.11</td>
<td>0.64</td>
</tr>
<tr>
<td>2:S:102:HIS:CD2</td>
<td>2:S:104:LYS:H</td>
<td>2.15</td>
<td>0.64</td>
</tr>
<tr>
<td>1:A:448:GLU:HB3</td>
<td>1:A:452:ARG:HD2</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>1:E:452:ARG:HG2</td>
<td>1:E:452:ARG:HH11</td>
<td>1.63</td>
<td>0.64</td>
</tr>
<tr>
<td>1:F:452:ARG:HG2</td>
<td>1:F:452:ARG:HH11</td>
<td>1.63</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:452:ARG:NH1</td>
<td>1:G:452:ARG:HG2</td>
<td>2.11</td>
<td>0.64</td>
</tr>
<tr>
<td>1:K:171:LYS:HD3</td>
<td>1:K:407:VAL:HG11</td>
<td>1.80</td>
<td>0.64</td>
</tr>
<tr>
<td>1:K:87:ASP:OD2</td>
<td>1:K:151:SER:HA</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>1:M:87:ASP:OD2</td>
<td>1:M:151:SER:HA</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>1:N:452:ARG:NH1</td>
<td>1:N:452:ARG:HG2</td>
<td>2.11</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:448:GLU:HB3</td>
<td>1:G:452:ARG:HD2</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:452:ARG:HH11</td>
<td>1:G:452:ARG:HG2</td>
<td>1.63</td>
<td>0.64</td>
</tr>
<tr>
<td>1:H:155:ASP:OD1</td>
<td>1:H:158:VAL:HG23</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>1:87:ASP:OD2</td>
<td>1:1:151:SER:HA</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>1:3:ALA:HB1</td>
<td>1:K:63:GLU:HB2</td>
<td>1.78</td>
<td>0.64</td>
</tr>
<tr>
<td>1:J:171:LYS:HD3</td>
<td>1:J:407:VAL:HG11</td>
<td>1.80</td>
<td>0.64</td>
</tr>
<tr>
<td>1:K:452:ARG:HH11</td>
<td>1:K:452:ARG:HG2</td>
<td>1.63</td>
<td>0.64</td>
</tr>
<tr>
<td>1:N:18:ARG:CB</td>
<td>1:N:18:ARG:NH1</td>
<td>2.41</td>
<td>0.64</td>
</tr>
<tr>
<td>2:Q:102:HIS:CD2</td>
<td>2:Q:104:LYS:H</td>
<td>2.15</td>
<td>0.64</td>
</tr>
<tr>
<td>1:C:452:ARG:HG2</td>
<td>1:C:452:ARG:NH1</td>
<td>2.11</td>
<td>0.64</td>
</tr>
<tr>
<td>1:J:452:ARG:HG2</td>
<td>1:J:452:ARG:HH11</td>
<td>1.63</td>
<td>0.64</td>
</tr>
<tr>
<td>1:K:25:ASP:HA</td>
<td>1:K:28:LYS:HE2</td>
<td>1.80</td>
<td>0.64</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:L:452:ARG:HG2</td>
<td>1:L:452:ARG:HH11</td>
<td>1.63</td>
<td>0.64</td>
</tr>
<tr>
<td>1:N:87:ASP:OD2</td>
<td>1:N:151:SER:HA</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>1:B:44:PHE:CD1</td>
<td>1:B:44:PHE:N</td>
<td>2.66</td>
<td>0.64</td>
</tr>
<tr>
<td>1:C:203:TYR:HE2</td>
<td>1:D:304:GLU:OE2</td>
<td>1.78</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:18:ARG:NH1</td>
<td>1:G:18:ARG:CB</td>
<td>2.41</td>
<td>0.64</td>
</tr>
<tr>
<td>1:25:ASP:HA</td>
<td>1:28:LYS:HE2</td>
<td>1.80</td>
<td>0.64</td>
</tr>
<tr>
<td>1:452:ARG:HH11</td>
<td>1:452:ARG:HG2</td>
<td>1.63</td>
<td>0.64</td>
</tr>
<tr>
<td>1:J:25:ASP:HA</td>
<td>1:J:28:LYS:HE2</td>
<td>1.80</td>
<td>0.64</td>
</tr>
<tr>
<td>2:R:10:ARG:O</td>
<td>2:S:108:CYS:HA</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>1:A:477:GLY:HA3</td>
<td>1:A:488:MET:SD</td>
<td>2.38</td>
<td>0.64</td>
</tr>
<tr>
<td>1:C:44:PHE:CD1</td>
<td>1:C:44:PHE:N</td>
<td>2.66</td>
<td>0.64</td>
</tr>
<tr>
<td>1:D:452:ARG:HG2</td>
<td>1:D:452:ARG:HH11</td>
<td>1.63</td>
<td>0.64</td>
</tr>
<tr>
<td>1:H:25:ASP:HA</td>
<td>1:H:28:LYS:HE2</td>
<td>1.80</td>
<td>0.64</td>
</tr>
<tr>
<td>1:L:155:ASP:OD1</td>
<td>1:L:158:VAL:HG23</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>1:L:25:ASP:HA</td>
<td>1:L:28:LYS:HE2</td>
<td>1.80</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:105:LYS:CG</td>
<td>1:M:109:ALA:O</td>
<td>2.45</td>
<td>0.64</td>
</tr>
<tr>
<td>1:I:171:LYS:HD3</td>
<td>1:I:407:VAL:HG11</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>1:M:477:GLY:HA3</td>
<td>1:M:488:MET:SD</td>
<td>2.38</td>
<td>0.64</td>
</tr>
<tr>
<td>2:P:10:ARG:O</td>
<td>2:Q:108:CYS:HA</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>1:B:464:VAL:HG21</td>
<td>1:B:467:ASN:HB2</td>
<td>1.71</td>
<td>0.63</td>
</tr>
<tr>
<td>1:B:477:GLY:HA3</td>
<td>1:B:488:MET:SD</td>
<td>2.38</td>
<td>0.63</td>
</tr>
<tr>
<td>1:G:477:GLY:HA3</td>
<td>1:G:488:MET:SD</td>
<td>2.38</td>
<td>0.63</td>
</tr>
<tr>
<td>1:H:87:ASP:OD2</td>
<td>1:H:151:SER:HA</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>1:I:477:GLY:HA3</td>
<td>1:I:488:MET:SD</td>
<td>2.38</td>
<td>0.63</td>
</tr>
<tr>
<td>1:L:87:ASP:OD2</td>
<td>1:L:151:SER:HA</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>1:A:452:ARG:HH11</td>
<td>1:A:452:ARG:HG2</td>
<td>1.63</td>
<td>0.63</td>
</tr>
<tr>
<td>1:K:477:GLY:HA3</td>
<td>1:K:488:MET:SD</td>
<td>2.38</td>
<td>0.63</td>
</tr>
<tr>
<td>1:N:477:GLY:HA3</td>
<td>1:N:488:MET:SD</td>
<td>2.38</td>
<td>0.63</td>
</tr>
<tr>
<td>1:A:44:PHE:CD1</td>
<td>1:A:44:PHE:N</td>
<td>2.66</td>
<td>0.63</td>
</tr>
<tr>
<td>1:L:477:GLY:HA3</td>
<td>1:L:488:MET:SD</td>
<td>2.39</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:452:ARG:HG2</td>
<td>1:C:452:ARG:HH11</td>
<td>1.63</td>
<td>0.63</td>
</tr>
<tr>
<td>1:K:3:ALA:HB1</td>
<td>1:L:63:GLU:HB2</td>
<td>1.78</td>
<td>0.63</td>
</tr>
<tr>
<td>1:L:171:LYS:HD3</td>
<td>1:L:407:VAL:HG11</td>
<td>1.80</td>
<td>0.63</td>
</tr>
<tr>
<td>1:N:452:ARG:HH11</td>
<td>1:N:452:ARG:HG2</td>
<td>1.63</td>
<td>0.63</td>
</tr>
<tr>
<td>1:B:452:ARG:HG2</td>
<td>1:B:452:ARG:HH11</td>
<td>1.63</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:477:GLY:HA3</td>
<td>1:C:488:MET:SD</td>
<td>2.38</td>
<td>0.63</td>
</tr>
<tr>
<td>1:B:28:LYS:HE2</td>
<td>1:B:25:ASP:HA</td>
<td>1.80</td>
<td>0.63</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:D:44:PHE:N</td>
<td>1:D:44:PHE:CD1</td>
<td>2.66</td>
<td>0.63</td>
</tr>
<tr>
<td>1:M:25:ASP:HA</td>
<td>1:M:28:LYS:HE2</td>
<td>1.80</td>
<td>0.63</td>
</tr>
<tr>
<td>1:N:25:ASP:HA</td>
<td>1:N:28:LYS:HE2</td>
<td>1.80</td>
<td>0.63</td>
</tr>
<tr>
<td>1:E:44:PHE:N</td>
<td>1:E:44:PHE:CD1</td>
<td>2.66</td>
<td>0.63</td>
</tr>
<tr>
<td>1:H:452:ARG:HH11</td>
<td>1:H:452:ARG:HG2</td>
<td>1.63</td>
<td>0.63</td>
</tr>
<tr>
<td>1:A:25:ASP:HA</td>
<td>1:A:28:LYS:HE2</td>
<td>1.80</td>
<td>0.63</td>
</tr>
<tr>
<td>1:M:452:ARG:HG2</td>
<td>1:M:452:ARG:HH11</td>
<td>1.63</td>
<td>0.63</td>
</tr>
<tr>
<td>1:G:44:PHE:N</td>
<td>1:G:44:PHE:CD1</td>
<td>2.66</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:25:ASP:HA</td>
<td>1:C:28:LYS:HE2</td>
<td>1.80</td>
<td>0.62</td>
</tr>
<tr>
<td>1:J:87:ASP:OD2</td>
<td>1:J:151:SER:HA</td>
<td>1.98</td>
<td>0.62</td>
</tr>
<tr>
<td>1:L:138:CYS:N</td>
<td>1:L:410:GLY:CA</td>
<td>2.62</td>
<td>0.62</td>
</tr>
<tr>
<td>1:J:155:ASP:CG</td>
<td>1:J:158:VAL:HG23</td>
<td>2.20</td>
<td>0.62</td>
</tr>
<tr>
<td>1:K:155:ASP:CG</td>
<td>1:K:158:VAL:HG23</td>
<td>2.20</td>
<td>0.62</td>
</tr>
<tr>
<td>1:M:145:ALA:HA</td>
<td>1:M:159:GLY:O</td>
<td>1.99</td>
<td>0.62</td>
</tr>
<tr>
<td>2:O:82:PRO:HB3</td>
<td>2:P:110:TYR:CD1</td>
<td>2.35</td>
<td>0.62</td>
</tr>
<tr>
<td>2:T:82:PRO:HB3</td>
<td>2:U:110:TYR:CD1</td>
<td>2.35</td>
<td>0.62</td>
</tr>
<tr>
<td>1:D:25:ASP:HA</td>
<td>1:D:28:LYS:HE2</td>
<td>1.80</td>
<td>0.62</td>
</tr>
<tr>
<td>2:O:110:TYR:CD1</td>
<td>2:U:82:PRO:HB3</td>
<td>2.35</td>
<td>0.62</td>
</tr>
<tr>
<td>1:E:263:VAL:CG1</td>
<td>1:F:305:ILE:HG22</td>
<td>2.30</td>
<td>0.62</td>
</tr>
<tr>
<td>1:K:157:THR:O</td>
<td>1:K:161:LEU:HD13</td>
<td>1.98</td>
<td>0.62</td>
</tr>
<tr>
<td>1:L:155:ASP:CG</td>
<td>1:L:158:VAL:HG23</td>
<td>2.20</td>
<td>0.62</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:D:477:GLY:HA3</td>
<td>1:D:488:MET:SD</td>
<td>2.38</td>
<td>0.62</td>
</tr>
<tr>
<td>1:H:44:PHE:CD1</td>
<td>1:H:44:PHE:N</td>
<td>2.66</td>
<td>0.62</td>
</tr>
<tr>
<td>1:I:138:CYS:N</td>
<td>1:I:410:GLY:CA</td>
<td>2.62</td>
<td>0.62</td>
</tr>
<tr>
<td>1:J:235:PRO:HG3</td>
<td>1:J:310:GLU:HA</td>
<td>1.82</td>
<td>0.62</td>
</tr>
<tr>
<td>1:K:145:ALA:HA</td>
<td>1:K:159:GLY:O</td>
<td>1.99</td>
<td>0.62</td>
</tr>
<tr>
<td>2:P:82:PRO:HB3</td>
<td>2:Q:110:TYR:CD1</td>
<td>2.35</td>
<td>0.62</td>
</tr>
<tr>
<td>1:F:263:VAL:CG1</td>
<td>1:G:305:ILE:HG22</td>
<td>2.30</td>
<td>0.62</td>
</tr>
<tr>
<td>1:G:25:ASP:HA</td>
<td>1:G:28:LYS:HE2</td>
<td>1.80</td>
<td>0.62</td>
</tr>
<tr>
<td>1:I:235:PRO:HG3</td>
<td>1:J:310:GLU:HA</td>
<td>1.82</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:263:VAL:CG1</td>
<td>1:D:305:ILE:HG22</td>
<td>2.30</td>
<td>0.62</td>
</tr>
<tr>
<td>1:E:25:ASP:HA</td>
<td>1:E:28:LYS:HE2</td>
<td>1.80</td>
<td>0.62</td>
</tr>
<tr>
<td>1:D:263:VAL:CG1</td>
<td>1:E:305:ILE:HG22</td>
<td>2.30</td>
<td>0.62</td>
</tr>
<tr>
<td>1:E:477:GLY:HA3</td>
<td>1:E:488:MET:SD</td>
<td>2.38</td>
<td>0.62</td>
</tr>
<tr>
<td>1:I:44:PHE:N</td>
<td>1:I:44:PHE:CD1</td>
<td>2.66</td>
<td>0.62</td>
</tr>
<tr>
<td>1:K:138:CYS:N</td>
<td>1:K:410:GLY:CA</td>
<td>2.62</td>
<td>0.62</td>
</tr>
<tr>
<td>1:M:155:ASP:CG</td>
<td>1:M:158:VAL:HG23</td>
<td>2.20</td>
<td>0.62</td>
</tr>
<tr>
<td>1:B:263:VAL:CG1</td>
<td>1:C:305:ILE:HG22</td>
<td>2.30</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:146:GLN:HE21</td>
<td>1:C:494:LEU:HD11</td>
<td>0.77</td>
<td>0.62</td>
</tr>
<tr>
<td>1:D:203:TYR:HE2</td>
<td>1:E:304:GLU:OE2</td>
<td>1.78</td>
<td>0.61</td>
</tr>
<tr>
<td>1:H:235:PRO:HG3</td>
<td>1:H:310:GLU:HA</td>
<td>1.82</td>
<td>0.61</td>
</tr>
<tr>
<td>1:I:157:THR:O</td>
<td>1:L:161:LEU:HD13</td>
<td>1.98</td>
<td>0.61</td>
</tr>
<tr>
<td>2:S:82:PRO:HB3</td>
<td>2:T:110:TYR:CD1</td>
<td>2.35</td>
<td>0.61</td>
</tr>
<tr>
<td>1:H:169:VAL:O</td>
<td>1:H:169:VAL:HG22</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>1:L:145:ALA:HA</td>
<td>1:L:159:GLY:O</td>
<td>1.99</td>
<td>0.61</td>
</tr>
<tr>
<td>1:N:235:PRO:HG3</td>
<td>1:N:310:GLU:HA</td>
<td>1.82</td>
<td>0.61</td>
</tr>
<tr>
<td>1:I:145:ALA:HA</td>
<td>1:I:159:GLY:O</td>
<td>1.99</td>
<td>0.61</td>
</tr>
<tr>
<td>1:K:169:VAL:O</td>
<td>1:I:169:VAL:HG22</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>1:K:169:VAL:HG22</td>
<td>1:K:169:VAL:O</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>1:F:25:ASP:HA</td>
<td>1:F:28:LYS:HE2</td>
<td>1.80</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:305:ILE:HG22</td>
<td>1:G:263:VAL:CG1</td>
<td>2.30</td>
<td>0.61</td>
</tr>
<tr>
<td>1:J:169:VAL:O</td>
<td>1:J:169:VAL:HG22</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>1:K:235:PRO:HG3</td>
<td>1:K:310:GLU:HA</td>
<td>1.82</td>
<td>0.61</td>
</tr>
<tr>
<td>1:K:190:VAL:CG2</td>
<td>1:K:334:ASP:OD2</td>
<td>2.47</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:263:VAL:CG1</td>
<td>1:B:305:ILE:HG22</td>
<td>2.30</td>
<td>0.61</td>
</tr>
<tr>
<td>2:R:82:PRO:HB3</td>
<td>2:S:110:TYR:CD1</td>
<td>2.35</td>
<td>0.61</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:Q:82:PRO:HB3</td>
<td>2:R:110:TYR:CD1</td>
<td>2.35</td>
<td>0.61</td>
</tr>
<tr>
<td>1:J:190:VAL:CG2</td>
<td>1:J:334:ASP:OD2</td>
<td>2.47</td>
<td>0.61</td>
</tr>
<tr>
<td>1:L:169:VAL:HG22</td>
<td>1:L:169:VAL:O</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>2:O:8:PRO:O</td>
<td>2:P:110:TYR:HA</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>2:P:8:PRO:O</td>
<td>2:Q:110:TYR:HA</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>1:M:235:PRO:HG3</td>
<td>1:M:310:GLU:HA</td>
<td>1.82</td>
<td>0.61</td>
</tr>
<tr>
<td>1:M:190:VAL:CG2</td>
<td>1:M:334:ASP:OD2</td>
<td>2.47</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:305:ILE:CD1</td>
<td>1:G:267:MET:SD</td>
<td>2.89</td>
<td>0.61</td>
</tr>
<tr>
<td>1:B:325:ILE:HG12</td>
<td>1:B:330:THR:HG23</td>
<td>1.83</td>
<td>0.61</td>
</tr>
<tr>
<td>1:M:385:THR:HG23</td>
<td>1:M:388:GLU:HB3</td>
<td>1.83</td>
<td>0.61</td>
</tr>
<tr>
<td>2:T:8:PRO:O</td>
<td>2:U:110:TYR:HA</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>1:M:44:PHE:CD1</td>
<td>1:M:44:PHE:N</td>
<td>2.66</td>
<td>0.60</td>
</tr>
<tr>
<td>1:N:385:THR:HG23</td>
<td>1:N:388:GLU:HB3</td>
<td>1.83</td>
<td>0.60</td>
</tr>
<tr>
<td>2:S:8:PRO:O</td>
<td>2:T:110:TYR:HA</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>1:N:169:VAL:HG22</td>
<td>1:N:169:VAL:O</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>2:O:110:TYR:HA</td>
<td>2:U:8:PRO:O</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>2:Q:8:PRO:O</td>
<td>2:R:110:TYR:HA</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>1:I:190:VAL:CG2</td>
<td>1:I:334:ASP:OD2</td>
<td>2.47</td>
<td>0.60</td>
</tr>
<tr>
<td>1:K:430:ARG:NH1</td>
<td>1:K:430:ARG:HG2</td>
<td>2.17</td>
<td>0.60</td>
</tr>
<tr>
<td>1:L:385:THR:O</td>
<td>1:L:389:MET:HB2</td>
<td>2.02</td>
<td>0.60</td>
</tr>
<tr>
<td>1:K:385:THR:HG23</td>
<td>1:K:388:GLU:HB3</td>
<td>1.83</td>
<td>0.60</td>
</tr>
<tr>
<td>1:L:385:THR:HG23</td>
<td>1:L:388:GLU:HB3</td>
<td>1.83</td>
<td>0.60</td>
</tr>
<tr>
<td>1:F:463:SER:CB</td>
<td>1:M:464:VAL:HG21</td>
<td>2.27</td>
<td>0.60</td>
</tr>
<tr>
<td>1:N:44:PHE:N</td>
<td>1:N:44:PHE:CD1</td>
<td>2.66</td>
<td>0.60</td>
</tr>
<tr>
<td>1:E:267:MET:SD</td>
<td>1:F:305:ILE:CD1</td>
<td>2.89</td>
<td>0.60</td>
</tr>
<tr>
<td>1:F:267:MET:SD</td>
<td>1:G:305:ILE:CD1</td>
<td>2.89</td>
<td>0.60</td>
</tr>
<tr>
<td>1:J:44:PHE:N</td>
<td>1:J:44:PHE:CD1</td>
<td>2.66</td>
<td>0.60</td>
</tr>
<tr>
<td>1:L:235:PRO:HG3</td>
<td>1:L:310:GLU:HA</td>
<td>1.82</td>
<td>0.60</td>
</tr>
<tr>
<td>1:L:516:THR:C</td>
<td>1:M:36:ARG:NH1</td>
<td>2.55</td>
<td>0.60</td>
</tr>
<tr>
<td>1:N:400:LEU:HD23</td>
<td>1:N:400:LEU:C</td>
<td>2.22</td>
<td>0.60</td>
</tr>
<tr>
<td>1:B:267:MET:SD</td>
<td>1:C:305:ILE:CD1</td>
<td>2.89</td>
<td>0.60</td>
</tr>
<tr>
<td>1:K:516:THR:C</td>
<td>1:L:36:ARG:NH1</td>
<td>2.55</td>
<td>0.60</td>
</tr>
<tr>
<td>1:N:385:THR:O</td>
<td>1:N:389:MET:HB2</td>
<td>2.02</td>
<td>0.60</td>
</tr>
<tr>
<td>1:N:510:VAL:HG12</td>
<td>1:N:514:MET:CE</td>
<td>2.32</td>
<td>0.60</td>
</tr>
<tr>
<td>2:R:8:PRO:O</td>
<td>2:S:110:TYR:HA</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>1:H:385:THR:O</td>
<td>1:H:389:MET:HB2</td>
<td>2.02</td>
<td>0.60</td>
</tr>
<tr>
<td>1:L:147:VAL:CG2</td>
<td>1:L:496:PRO:HB3</td>
<td>2.32</td>
<td>0.60</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:M:430:ARG:HG2</td>
<td>1:M:430:ARG:NH1</td>
<td>2.17</td>
<td>0.60</td>
</tr>
<tr>
<td>1:D:146:GLN:HE21</td>
<td>1:D:494:LEU:HD11</td>
<td>0.77</td>
<td>0.60</td>
</tr>
<tr>
<td>1:F:146:GLN:HE21</td>
<td>1:F:494:LEU:HD11</td>
<td>0.77</td>
<td>0.60</td>
</tr>
<tr>
<td>1:H:385:THR:HG23</td>
<td>1:H:388:GLU:HB3</td>
<td>1.83</td>
<td>0.60</td>
</tr>
<tr>
<td>1:J:400:LEU:HD23</td>
<td>1:J:400:LEU:C</td>
<td>2.22</td>
<td>0.60</td>
</tr>
<tr>
<td>1:L:510:VAL:HG12</td>
<td>1:L:514:MET:CE</td>
<td>2.32</td>
<td>0.60</td>
</tr>
<tr>
<td>1:M:510:VAL:HG12</td>
<td>1:M:514:MET:CE</td>
<td>2.32</td>
<td>0.60</td>
</tr>
<tr>
<td>1:H:400:LEU:C</td>
<td>1:H:400:LEU:HD23</td>
<td>2.22</td>
<td>0.60</td>
</tr>
<tr>
<td>1:K:385:THR:O</td>
<td>1:K:389:MET:HB2</td>
<td>2.02</td>
<td>0.60</td>
</tr>
<tr>
<td>1:K:147:VAL:CG2</td>
<td>1:K:496:PRO:HB3</td>
<td>2.32</td>
<td>0.60</td>
</tr>
<tr>
<td>1:M:169:VAL:HG22</td>
<td>1:M:169:VAL:O</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>1:M:516:THR:C</td>
<td>1:N:36:ARG:NH1</td>
<td>2.55</td>
<td>0.60</td>
</tr>
<tr>
<td>1:G:510:VAL:HG12</td>
<td>1:G:514:MET:CE</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:J:430:ARG:NH1</td>
<td>1:J:430:ARG:HG2</td>
<td>2.17</td>
<td>0.59</td>
</tr>
<tr>
<td>1:M:385:THR:O</td>
<td>1:M:389:MET:HB2</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:E:510:VAL:HG12</td>
<td>1:E:514:MET:CE</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:F:44:PHE:CD1</td>
<td>1:F:44:PHE:N</td>
<td>2.66</td>
<td>0.59</td>
</tr>
<tr>
<td>1:J:385:THR:HG23</td>
<td>1:J:388:GLU:HB3</td>
<td>1.83</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:325:ILE:HG12</td>
<td>1:C:330:THR:HG23</td>
<td>1.83</td>
<td>0.59</td>
</tr>
<tr>
<td>1:J:385:THR:O</td>
<td>1:J:389:MET:HB2</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:J:147:VAL:CG2</td>
<td>1:J:496:PRO:HB3</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:K:400:LEU:C</td>
<td>1:K:400:LEU:HD23</td>
<td>2.22</td>
<td>0.59</td>
</tr>
<tr>
<td>1:N:147:VAL:CG2</td>
<td>1:N:496:PRO:HB3</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:J:147:VAL:CG2</td>
<td>1:J:496:PRO:HB3</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:F:406:ALA:CB</td>
<td>1:F:496:PRO:HB3</td>
<td>2.27</td>
<td>0.59</td>
</tr>
<tr>
<td>1:F:510:VAL:HG12</td>
<td>1:F:514:MET:CE</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:A:510:VAL:HG12</td>
<td>1:A:514:MET:CE</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:H:147:VAL:CG2</td>
<td>1:H:496:PRO:HB3</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:K:510:VAL:HG12</td>
<td>1:K:514:MET:CE</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:L:430:ARG:NH1</td>
<td>1:L:430:ARG:HG2</td>
<td>2.17</td>
<td>0.59</td>
</tr>
<tr>
<td>1:D:510:VAL:HG12</td>
<td>1:D:514:MET:CE</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:J:516:THR:C</td>
<td>1:K:36:ARG:NH1</td>
<td>2.55</td>
<td>0.59</td>
</tr>
<tr>
<td>1:L:400:LEU:HD23</td>
<td>1:L:400:LEU:C</td>
<td>2.22</td>
<td>0.59</td>
</tr>
<tr>
<td>1:M:147:VAL:CG2</td>
<td>1:M:496:PRO:HB3</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:E:325:ILE:HG12</td>
<td>1:E:330:THR:HG23</td>
<td>1.83</td>
<td>0.59</td>
</tr>
<tr>
<td>1:M:400:LEU:C</td>
<td>1:M:400:LEU:HD23</td>
<td>2.22</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:510:VAL:HG12</td>
<td>1:C:514:MET:CE</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:J:385:THR:HG23</td>
<td>1:J:388:GLU:H</td>
<td>1.68</td>
<td>0.59</td>
</tr>
<tr>
<td>1:A:430:ARG:NH1</td>
<td>1:A:430:ARG:HG2</td>
<td>2.17</td>
<td>0.59</td>
</tr>
<tr>
<td>1:D:325:ILE:HG12</td>
<td>1:D:330:THR:HG23</td>
<td>1.83</td>
<td>0.59</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:146:GLN:HE21</td>
<td>1:G:494:LEU:HD11</td>
<td>0.77</td>
<td>0.59</td>
</tr>
<tr>
<td>1:I:510:VAL:HG12</td>
<td>1:I:514:MET:CE</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:B:510:VAL:HG12</td>
<td>1:B:514:MET:CE</td>
<td>2.32</td>
<td>0.58</td>
</tr>
<tr>
<td>1:I:385:THR:O</td>
<td>1:I:389:MET:HB2</td>
<td>2.02</td>
<td>0.58</td>
</tr>
<tr>
<td>1:I:510:VAL:HG12</td>
<td>1:I:514:MET:CE</td>
<td>2.32</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:353:ILE:HG12</td>
<td>1:B:365:LEU:HB3</td>
<td>1.85</td>
<td>0.58</td>
</tr>
<tr>
<td>1:E:353:ILE:HG12</td>
<td>1:E:365:LEU:HB3</td>
<td>1.85</td>
<td>0.58</td>
</tr>
<tr>
<td>1:H:36:ARG:NH1</td>
<td>1:N:516:THR:C</td>
<td>2.55</td>
<td>0.58</td>
</tr>
<tr>
<td>2:R:81:HIS:HD2</td>
<td>2:R:83:PHE:H</td>
<td>1.52</td>
<td>0.58</td>
</tr>
<tr>
<td>1:D:224:ASP:HB3</td>
<td>1:D:302:SER:HA</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>2:P:80:PRO:HG2</td>
<td>2:Q:70:SER:HG</td>
<td>1.68</td>
<td>0.58</td>
</tr>
<tr>
<td>2:Q:11:ALA:HA</td>
<td>2:R:107:PRO:O</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>1:C:353:ILE:HG12</td>
<td>1:C:365:LEU:HB3</td>
<td>1.85</td>
<td>0.58</td>
</tr>
<tr>
<td>1:D:353:ILE:HG12</td>
<td>1:D:365:LEU:HB3</td>
<td>1.85</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:105:LYS:CG</td>
<td>1:H:109:ALA:O</td>
<td>2.45</td>
<td>0.58</td>
</tr>
<tr>
<td>1:H:510:VAL:HG12</td>
<td>1:H:514:MET:CE</td>
<td>2.32</td>
<td>0.58</td>
</tr>
<tr>
<td>1:L:385:THR:HG23</td>
<td>1:L:388:GLU:H</td>
<td>1.68</td>
<td>0.58</td>
</tr>
<tr>
<td>1:A:409:GLU:CB</td>
<td>1:A:498:LYS:HB2</td>
<td>2.34</td>
<td>0.58</td>
</tr>
<tr>
<td>1:D:409:GLU:CB</td>
<td>1:D:498:LYS:HB2</td>
<td>2.34</td>
<td>0.58</td>
</tr>
<tr>
<td>1:E:105:LYS:CG</td>
<td>1:K:109:ALA:O</td>
<td>2.45</td>
<td>0.58</td>
</tr>
<tr>
<td>2:R:11:ALA:HA</td>
<td>2:S:107:PRO:O</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>1:C:224:ASP:HB3</td>
<td>1:C:302:SER:HA</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>1:F:409:GLU:CB</td>
<td>1:F:498:LYS:HB2</td>
<td>2.34</td>
<td>0.58</td>
</tr>
<tr>
<td>2:O:110:TYR:HD1</td>
<td>2:U:82:PRO:HB3</td>
<td>1.69</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:406:ALA:C6</td>
<td>1:B:496:PRO:HB3</td>
<td>2.27</td>
<td>0.58</td>
</tr>
<tr>
<td>1:C:430:ARG:NH1</td>
<td>1:C:430:ARG:HG2</td>
<td>2.17</td>
<td>0.58</td>
</tr>
<tr>
<td>1:L:190:VAL:CG2</td>
<td>1:L:334:ASP:OD2</td>
<td>2.47</td>
<td>0.58</td>
</tr>
<tr>
<td>2:P:82:PRO:HB3</td>
<td>2:Q:110:TYR:HD1</td>
<td>1.69</td>
<td>0.58</td>
</tr>
<tr>
<td>1:K:385:THR:HG23</td>
<td>1:K:388:GLU:H</td>
<td>1.68</td>
<td>0.58</td>
</tr>
<tr>
<td>1:D:105:LYS:CG</td>
<td>1:J:109:ALA:O</td>
<td>2.45</td>
<td>0.58</td>
</tr>
<tr>
<td>1:D:86:GLY:HA3</td>
<td>1:D:401:His:HB3</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>1:E:86:GLY:HA3</td>
<td>1:E:401:His:HB3</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>1:F:86:GLY:HA3</td>
<td>1:F:401:His:HB3</td>
<td>1.86</td>
<td>0.58</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:86:GLY:HA3</td>
<td>1:G:401:HIS:HB3</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>1:L:279:PRO:O</td>
<td>1:1:285:ARG:HB3</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>1:L:44:PHE:N</td>
<td>1:L:44:PHE:CD1</td>
<td>2.66</td>
<td>0.58</td>
</tr>
<tr>
<td>1:M:279:PRO:O</td>
<td>1:M:285:ARG:HB3</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>1:N:279:PRO:O</td>
<td>1:N:285:ARG:HB3</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>1:F:430:ARG:NH1</td>
<td>1:F:430:ARG:HG2</td>
<td>2.17</td>
<td>0.57</td>
</tr>
<tr>
<td>2:O:82:PRO:HB3</td>
<td>2:P:110:TYR:HD1</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>1:E:224:ASP:HB3</td>
<td>1:E:302:SER:HA</td>
<td>1.86</td>
<td>0.57</td>
</tr>
<tr>
<td>1:K:44:PHE:N</td>
<td>1:K:44:PHE:CD1</td>
<td>2.66</td>
<td>0.57</td>
</tr>
<tr>
<td>1:L:392:LYS:O</td>
<td>1:L:396:VAL:HG23</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:N:392:LYS:O</td>
<td>1:N:396:VAL:HG23</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>2:P:81:HIS:HD2</td>
<td>2:P:83:PHE:H</td>
<td>1.52</td>
<td>0.57</td>
</tr>
<tr>
<td>2:Q:82:PRO:HB3</td>
<td>2:R:110:TYR:HD1</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>2:T:81:HIS:HD2</td>
<td>2:T:83:PHE:H</td>
<td>1.52</td>
<td>0.57</td>
</tr>
<tr>
<td>1:A:86:GLY:HA3</td>
<td>1:A:401:HIS:HB3</td>
<td>1.86</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:409:GLU:CB</td>
<td>1:B:498:LYS:HB2</td>
<td>2.33</td>
<td>0.57</td>
</tr>
<tr>
<td>1:D:147:VAL:HB</td>
<td>1:D:496:PRO:HG3</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:E:146:GLN:HE21</td>
<td>1:E:494:LEU:HD11</td>
<td>0.77</td>
<td>0.57</td>
</tr>
<tr>
<td>2:S:81:HIS:HD2</td>
<td>2:S:83:PHE:H</td>
<td>1.52</td>
<td>0.57</td>
</tr>
<tr>
<td>1:A:146:GLN:HE21</td>
<td>1:A:494:LEU:HD11</td>
<td>0.77</td>
<td>0.57</td>
</tr>
<tr>
<td>1:D:16:MET:HG3</td>
<td>1:D:520:MET:HE1</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:E:147:VAL:HB</td>
<td>1:E:496:PRO:HG3</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:J:279:PRO:O</td>
<td>1:J:285:ARG:HB3</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>2:O:85:ALA:HA</td>
<td>2:P:48:LEU:CD2</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>1:F:147:VAL:HB</td>
<td>1:F:496:PRO:HG3</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:F:16:MET:HG3</td>
<td>1:F:520:MET:HE1</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:H:516:THR:C</td>
<td>1:I:36:ARG:NH1</td>
<td>2.55</td>
<td>0.57</td>
</tr>
<tr>
<td>1:L:161:LEU:H</td>
<td>1:L:161:LEU:HD12</td>
<td>1.70</td>
<td>0.57</td>
</tr>
<tr>
<td>1:M:16:MET:HG3</td>
<td>1:M:520:MET:HE1</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>2:S:85:ALA:HA</td>
<td>2:T:48:LEU:CD2</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>2:T:82:PRO:HB3</td>
<td>2:U:110:TYR:HD1</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:409:GLU:CB</td>
<td>1:C:498:LYS:HB2</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>1:E:409:GLU:CB</td>
<td>1:E:498:LYS:HB2</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>1:L:279:PRO:O</td>
<td>1:L:285:ARG:HB3</td>
<td>2.04</td>
<td>0.57</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:R:82:PRO:HB3</td>
<td>2:S:110:TYR:HD1</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>2:R:85:ALA:HA</td>
<td>2:S:48:LEU:CD2</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>2:U:81:HIS:HD2</td>
<td>2:U:83:PHE.H</td>
<td>1.51</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:224:ASP:HB3</td>
<td>1:B:302:SER:HA</td>
<td>1.86</td>
<td>0.57</td>
</tr>
<tr>
<td>1:G:147:VAL:HB</td>
<td>1:G:496:PRO:HG3</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:G:409:GLU:CB</td>
<td>1:G:498:LYS:HB2</td>
<td>2.33</td>
<td>0.57</td>
</tr>
<tr>
<td>1:J:516:THR:C</td>
<td>1:J:36:ARG:NH1</td>
<td>2.55</td>
<td>0.57</td>
</tr>
<tr>
<td>1:I:16:MET:HG3</td>
<td>1:I:520:MET:HE1</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>2:S:82:PRO:HB3</td>
<td>2:T:110:TYR:HD1</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>1:D:263:VAL:HG11</td>
<td>1:E:305:ILE:HG22</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:I:16:MET:HG3</td>
<td>1:I:520:MET:HE1</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:K:138:CYS:SG</td>
<td>1:K:144:ILE:HD13</td>
<td>2.45</td>
<td>0.57</td>
</tr>
<tr>
<td>1:L:138:CYS:SG</td>
<td>1:L:144:ILE:HD13</td>
<td>2.45</td>
<td>0.57</td>
</tr>
<tr>
<td>2:P:85:ALA:HA</td>
<td>2:Q:48:LEU:CD2</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>2:O:70:SER:HG</td>
<td>2:U:80:PRO:HG2</td>
<td>1.70</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:147:VAL:HB</td>
<td>1:C:496:PRO:HG3</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:86:GLY:HA3</td>
<td>1:C:401:HIS:HB3</td>
<td>1.86</td>
<td>0.57</td>
</tr>
<tr>
<td>1:H:16:MET:HG3</td>
<td>1:H:520:MET:HE1</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:I:171:LYS:HD3</td>
<td>1:I:407:VAL:CG1</td>
<td>2.35</td>
<td>0.57</td>
</tr>
<tr>
<td>1:N:16:MET:HG3</td>
<td>1:N:520:MET:HE3</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:16:MET:HG3</td>
<td>1:B:520:MET:HE1</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:263:VAL:HG11</td>
<td>1:D:305:ILE:HG22</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:E:263:VAL:HG11</td>
<td>1:F:305:ILE:HG22</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:I:392:LYS:O</td>
<td>1:I:396:VAL:HG23</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>1:K:392:LYS:O</td>
<td>1:K:396:VAL:HG23</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:M:392:LYS:O</td>
<td>1:M:396:VAL:HG23</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>2:Q:81:HIS:HD2</td>
<td>2:Q:83:PHE.H</td>
<td>1.52</td>
<td>0.57</td>
</tr>
<tr>
<td>1:H:171:LYS:HD3</td>
<td>1:H:407:VAL:CG1</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>1:J:138:CYS:SG</td>
<td>1:J:144:ILE:HD13</td>
<td>2.45</td>
<td>0.56</td>
</tr>
<tr>
<td>1:J:16:MET:HG3</td>
<td>1:J:520:MET:HE1</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:K:279:PRO:O</td>
<td>1:K:285:ARG:HB3</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>1:K:16:MET:HG3</td>
<td>1:K:520:MET:HE1</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:L:16:MET:HG3</td>
<td>1:L:520:MET:HE1</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:M:138:CYS:SG</td>
<td>1:M:144:ILE:HD13</td>
<td>2.45</td>
<td>0.56</td>
</tr>
<tr>
<td>2:Q:85:ALA:HA</td>
<td>2:R:48:LEU:CD2</td>
<td>2.34</td>
<td>0.56</td>
</tr>
<tr>
<td>2:T:85:ALA:HA</td>
<td>2:U:48:LEU:CD2</td>
<td>2.34</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:16:MET:HG3</td>
<td>1:A:520:MET:HE1</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:406:ALA:CB</td>
<td>1:D:496:PRO:HB3</td>
<td>2.27</td>
<td>0.56</td>
</tr>
<tr>
<td>1:J:171:LYS:HD3</td>
<td>1:J:407:VAL:CG1</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>1:K:171:LYS:HD3</td>
<td>1:K:407:VAL:CG1</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>1:C:16:MET:HG3</td>
<td>1:C:520:MET:HE3</td>
<td>1.87</td>
<td>0.56</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:C:105:LYS:CG</td>
<td>1:I:109:ALA:O</td>
<td>2.45</td>
<td>0.56</td>
</tr>
<tr>
<td>1:L:138:CY5:SG</td>
<td>1:L:144:ILE:HD13</td>
<td>2.45</td>
<td>0.56</td>
</tr>
<tr>
<td>1:J:392:LYS:O</td>
<td>1:j:396:VAL:HG23</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>1:N:138:CY5:SG</td>
<td>1:N:144:ILE:HD13</td>
<td>2.45</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:147:VAL:HB</td>
<td>1:A:496:PRO:HG3</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:267:MET:SD</td>
<td>1:B:305:ILE:CD1</td>
<td>2.89</td>
<td>0.56</td>
</tr>
<tr>
<td>1:E:16:MET:HG3</td>
<td>1:E:520:MET:HE1</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:H:261:THR:O</td>
<td>1:H:265:ASN:HB2</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>1:L:161:lys:O</td>
<td>1:L:161:lys:HD12</td>
<td>1.69</td>
<td>0.56</td>
</tr>
<tr>
<td>1:N:138:CY5:SG</td>
<td>1:N:144:ILE:HD13</td>
<td>2.45</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:147:VAL:HB</td>
<td>1:A:496:PRO:HG3</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:G:204:PH5:HE1</td>
<td>1:G:274:ALA:HB2</td>
<td>1.71</td>
<td>0.56</td>
</tr>
<tr>
<td>1:H:392:LYS:O</td>
<td>1:H:396:VAL:HG23</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>1:N:171:LYS:HD3</td>
<td>1:N:407:VAL:CG1</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:204:PH5:HE1</td>
<td>1:B:274:ALA:HB2</td>
<td>1.71</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:263:VAL:HG11</td>
<td>1:A:305:ILE:HG22</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:F:224:ASP:HB3</td>
<td>1:F:302:SER:HA</td>
<td>1.86</td>
<td>0.56</td>
</tr>
<tr>
<td>1:M:261:THR:O</td>
<td>1:M:265:ASN:HB2</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>1:N:16:MET:O</td>
<td>1:N:20:VAL:HG23</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:N:261:THR:O</td>
<td>1:N:265:ASN:HB2</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>2:O:81:HIS:HD2</td>
<td>2:O:83:PH5:H</td>
<td>1.52</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:86:GLY:HA3</td>
<td>1:B:401:HIS:HB3</td>
<td>1.86</td>
<td>0.56</td>
</tr>
<tr>
<td>1:G:224:ASP:HB3</td>
<td>1:G:302:SER:HA</td>
<td>1.86</td>
<td>0.56</td>
</tr>
<tr>
<td>1:J:510:VAL:HG12</td>
<td>1:J:514:MET:HE1</td>
<td>1.88</td>
<td>0.56</td>
</tr>
<tr>
<td>1:L:261:THR:O</td>
<td>1:L:265:ASN:HB2</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:16:MET:O</td>
<td>1:A:20:VAL:HG23</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:16:MET:O</td>
<td>1:D:20:VAL:HG23</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:F:16:MET:O</td>
<td>1:F:20:VAL:HG23</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:F:263:VAL:HG11</td>
<td>1:G:305:ILE:HG22</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:I:161:LEU:HD12</td>
<td>1:I:161:LEU:H</td>
<td>1.69</td>
<td>0.56</td>
</tr>
<tr>
<td>1:J:16:MET:O</td>
<td>1:J:20:VAL:HG23</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:K:16:MET:O</td>
<td>1:K:20:VAL:HG23</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:M:161:LEU:H</td>
<td>1:M:161:LEU:HD12</td>
<td>1.70</td>
<td>0.56</td>
</tr>
<tr>
<td>1:G:463:SER:CB</td>
<td>1:N:464:VAL:HG21</td>
<td>2.27</td>
<td>0.56</td>
</tr>
<tr>
<td>1:K:161:LEU:HD12</td>
<td>1:K:161:LEU:H</td>
<td>1.70</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:224:ASP:HB3</td>
<td>1:A:302:SER:HA</td>
<td>1.86</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:136:VAL:HA</td>
<td>1:B:137:PRO:N</td>
<td>2.18</td>
<td>0.56</td>
</tr>
<tr>
<td>1:C:16:MET:O</td>
<td>1:C:20:VAL:HG23</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:E:204:PH5:HE1</td>
<td>1:E:274:ALA:HB2</td>
<td>1.71</td>
<td>0.56</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:H:234:LEU:N</td>
<td>1:H:235:PRO:HD2</td>
<td>2.21</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:16:MET:O</td>
<td>1:B:20:VAL:HG23</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:G:16:MET:O</td>
<td>1:G:20:VAL:HG23</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:H:138:CYS:SG</td>
<td>1:H:144:ILE:HD13</td>
<td>2.45</td>
<td>0.56</td>
</tr>
<tr>
<td>1:N:161:LEU:HD12</td>
<td>1:N:161:LEU:H</td>
<td>1.70</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:172:GLU:O</td>
<td>1:B:369:VAL:CG2</td>
<td>2.54</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:204:PHE:HE1</td>
<td>1:C:274:ALA:HB2</td>
<td>1.71</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:263:VAL:HG11</td>
<td>1:C:305:ILE:HG22</td>
<td>1.87</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:172:GLU:O</td>
<td>1:C:369:VAL:CG2</td>
<td>2.54</td>
<td>0.55</td>
</tr>
<tr>
<td>1:K:234:LEU:N</td>
<td>1:K:235:PRO:HD2</td>
<td>2.21</td>
<td>0.55</td>
</tr>
<tr>
<td>1:A:204:PHE:HE1</td>
<td>1:A:274:ALA:HB2</td>
<td>1.71</td>
<td>0.55</td>
</tr>
<tr>
<td>1:G:406:ALA:CB</td>
<td>1:G:496:PRO:HB3</td>
<td>2.27</td>
<td>0.55</td>
</tr>
<tr>
<td>1:I:16:MET:O</td>
<td>1:I:20:VAL:HG23</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:N:147:VAL:CG2</td>
<td>1:N:496:PRO:CG</td>
<td>2.75</td>
<td>0.55</td>
</tr>
<tr>
<td>1:F:204:PHE:HE1</td>
<td>1:F:274:ALA:HB2</td>
<td>1.71</td>
<td>0.55</td>
</tr>
<tr>
<td>1:J:419:LEU:HG</td>
<td>1:J:447:MET:HG2</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:L:16:MET:O</td>
<td>1:L:20:VAL:HG23</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:33:PRO:HA</td>
<td>1:C:153:ASN:HD21</td>
<td>1.72</td>
<td>0.55</td>
</tr>
<tr>
<td>1:A:77:VAL:HG23</td>
<td>1:A:92:ALB:HB1</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:136:VAL:CA</td>
<td>1:E:137:PRO:CD</td>
<td>2.83</td>
<td>0.55</td>
</tr>
<tr>
<td>1:L:419:LEU:HG</td>
<td>1:L:447:MET:HG2</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:M:419:LEU:HG</td>
<td>1:M:447:MET:HG2</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:77:VAL:HG23</td>
<td>1:D:92:ALB:HB1</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:510:VAL:HG12</td>
<td>1:E:514:MET:HE1</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:I:419:LEU:HG</td>
<td>1:I:447:MET:HG2</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:K:419:LEU:HG</td>
<td>1:K:447:MET:HG2</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:K:147:VAL:HG21</td>
<td>1:K:496:PRO:HB3</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:77:VAL:HG23</td>
<td>1:C:92:ALB:HB1</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:419:LEU:HG</td>
<td>1:E:447:MET:HG2</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:A:146:GLN:CB</td>
<td>1:A:494:LEU:CD1</td>
<td>2.85</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:77:VAL:HG23</td>
<td>1:B:92:ALB:HB1</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:16:MET:O</td>
<td>1:E:20:VAL:HG23</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:A:305:ILE:HG22</td>
<td>1:G:263:VAL:HG11</td>
<td>1.87</td>
<td>0.55</td>
</tr>
<tr>
<td>1:G:510:VAL:HG12</td>
<td>1:G:514:MET:HE1</td>
<td>1.88</td>
<td>0.55</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:H:147:VAL:CG2</td>
<td>1:H:496:PRO:CG</td>
<td>2.75</td>
<td>0.55</td>
</tr>
<tr>
<td>1:M:16:MET:O</td>
<td>1:M:20:VAL:HG23</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:510:VAL:HG12</td>
<td>1:C:514:MET:HE1</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:430:ARG:NH1</td>
<td>1:E:430:ARG:HG2</td>
<td>2.17</td>
<td>0.55</td>
</tr>
<tr>
<td>1:G:146:GLN:CB</td>
<td>1:G:494:LEU:CD1</td>
<td>2.85</td>
<td>0.55</td>
</tr>
<tr>
<td>1:G:77:VAL:HG23</td>
<td>1:G:92:ALA:HB1</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:L:147:VAL:HG21</td>
<td>1:L:496:PRO:HB3</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:L:175:ILE:HD13</td>
<td>1:L:404:ARG:NH2</td>
<td>2.22</td>
<td>0.55</td>
</tr>
<tr>
<td>1:M:77:VAL:HG23</td>
<td>1:M:92:ALA:HB1</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:430:ARG:HG2</td>
<td>1:B:430:ARG:NH1</td>
<td>2.17</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:510:VAL:HG12</td>
<td>1:B:514:MET:HE1</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:33:PRO:HA</td>
<td>1:D:153:ASN:HD21</td>
<td>1.72</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:146:GLN:CB</td>
<td>1:D:494:LEU:CD1</td>
<td>2.85</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:146:GLN:CB</td>
<td>1:E:494:LEU:CD1</td>
<td>2.85</td>
<td>0.55</td>
</tr>
<tr>
<td>1:H:16:MET:O</td>
<td>1:H:20:VAL:HG23</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:H:77:VAL:HG23</td>
<td>1:H:92:ALA:HB1</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:L:147:VAL:CG2</td>
<td>1:L:496:PRO:HG3</td>
<td>2.14</td>
<td>0.55</td>
</tr>
<tr>
<td>1:K:261:THR:O</td>
<td>1:K:265:ASN:HB2</td>
<td>2.05</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:463:SER:HG</td>
<td>1:K:464:VAL:HG23</td>
<td>1.68</td>
<td>0.55</td>
</tr>
<tr>
<td>1:L:234:LEU:N</td>
<td>1:L:235:PRO:HD2</td>
<td>2.21</td>
<td>0.55</td>
</tr>
<tr>
<td>1:N:77:VAL:HG23</td>
<td>1:N:92:ALA:HB1</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:A:172:GLU:O</td>
<td>1:A:369:VAL:CG2</td>
<td>2.54</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:419:LEU:HG</td>
<td>1:A:447:MET:HG2</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:33:PRO:HA</td>
<td>1:B:153:ASN:HD21</td>
<td>1.72</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:146:GLN:CB</td>
<td>1:B:494:LEU:CD1</td>
<td>2.85</td>
<td>0.54</td>
</tr>
<tr>
<td>1:D:204:PHE:HE1</td>
<td>1:D:274:ALA:HB2</td>
<td>1.71</td>
<td>0.54</td>
</tr>
<tr>
<td>1:D:419:LEU:HG</td>
<td>1:D:447:MET:HG2</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:E:77:VAL:HG23</td>
<td>1:E:92:ALA:HB1</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:E:510:VAL:HG12</td>
<td>1:F:514:MET:HE1</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:G:172:GLU:O</td>
<td>1:G:369:VAL:CG2</td>
<td>2.54</td>
<td>0.54</td>
</tr>
<tr>
<td>1:J:234:LEU:N</td>
<td>1:J:235:PRO:HD2</td>
<td>2.21</td>
<td>0.54</td>
</tr>
<tr>
<td>1:K:184:GLN:HA</td>
<td>1:K:184:GLN:OE1</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>1:K:510:VAL:HG12</td>
<td>1:K:514:MET:HE1</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:L:510:VAL:HG12</td>
<td>1:L:514:MET:HE1</td>
<td>1.90</td>
<td>0.54</td>
</tr>
<tr>
<td>1:M:175:ILE:HD13</td>
<td>1:M:404:ARG:NH2</td>
<td>2.22</td>
<td>0.54</td>
</tr>
<tr>
<td>2:P:82:PRO:HA</td>
<td>2:Q:110:TYR:CD1</td>
<td>2.42</td>
<td>0.54</td>
</tr>
<tr>
<td>1:D:172:GLU:O</td>
<td>1:D:369:VAL:CG2</td>
<td>2.54</td>
<td>0.54</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:F:419:LEU:HG</td>
<td>1:F:447:MET:HG2</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:I:184:GLN:HA</td>
<td>1:I:184:GLN:OE1</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>1:K:175:ILE:HD13</td>
<td>1:K:404:ARG:NH2</td>
<td>2.22</td>
<td>0.54</td>
</tr>
<tr>
<td>1:M:147:VAL:HG21</td>
<td>1:M:496:PRO:HB3</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:N:234:LEU:N</td>
<td>1:N:235:PRO:HD2</td>
<td>2.21</td>
<td>0.54</td>
</tr>
<tr>
<td>2:O:82:PRO:HA</td>
<td>2:P:110:TYR:CD1</td>
<td>2.42</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:33:PRO:HA</td>
<td>1:A:153:ASN:HD21</td>
<td>1.72</td>
<td>0.54</td>
</tr>
<tr>
<td>1:D:510:VAL:HG12</td>
<td>1:D:514:MET:HE1</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:I:175:ILE:HD13</td>
<td>1:I:404:ARG:NH2</td>
<td>2.22</td>
<td>0.54</td>
</tr>
<tr>
<td>1:K:441:LYS:HB3</td>
<td>1:K:445:ARG:HH21</td>
<td>1.73</td>
<td>0.54</td>
</tr>
<tr>
<td>1:L:441:LYS:HB3</td>
<td>1:L:445:ARG:HH21</td>
<td>1.73</td>
<td>0.54</td>
</tr>
<tr>
<td>1:N:419:LEU:HG</td>
<td>1:N:447:MET:HG2</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:146:GLN:HE21</td>
<td>1:B:494:LEU:HD11</td>
<td>0.77</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:146:GLN:CB</td>
<td>1:B:494:LEU:HG</td>
<td>2.34</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:441:LYS:HB3</td>
<td>1:C:445:ARG:HH21</td>
<td>1.73</td>
<td>0.54</td>
</tr>
<tr>
<td>1:E:33:PRO:HA</td>
<td>1:E:153:ASN:HD21</td>
<td>1.72</td>
<td>0.54</td>
</tr>
<tr>
<td>1:I:433:ASN:OD1</td>
<td>1:I:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:I:510:VAL:HG12</td>
<td>1:I:514:MET:HE1</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:J:147:VAL:HG21</td>
<td>1:J:496:PRO:HB3</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:L:433:ASN:OD1</td>
<td>1:L:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>2:T:82:PRO:HA</td>
<td>2:U:110:TYR:CD1</td>
<td>2.42</td>
<td>0.54</td>
</tr>
<tr>
<td>1:F:146:GLN:CB</td>
<td>1:F:494:LEU:CD1</td>
<td>2.85</td>
<td>0.54</td>
</tr>
<tr>
<td>1:F:433:ASN:OD1</td>
<td>1:F:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:G:111:MET:HG3</td>
<td>1:G:435:ASP:OD1</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:G:433:ASN:OD1</td>
<td>1:G:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:H:147:VAL:HG21</td>
<td>1:H:496:PRO:HB3</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:K:433:ASN:OD1</td>
<td>1:K:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:L:77:VAL:HG23</td>
<td>1:L:92:ALA:HB1</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:N:441:LYS:HB3</td>
<td>1:N:445:ARG:HH21</td>
<td>1.73</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:433:ASN:OD1</td>
<td>1:B:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:F:138:CYS:SG</td>
<td>1:F:411:VAL:CG1</td>
<td>2.96</td>
<td>0.54</td>
</tr>
<tr>
<td>1:J:111:MET:HG3</td>
<td>1:J:435:ASP:OD1</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:N:184:GLN:HA</td>
<td>1:N:184:GLN:OE1</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>2:O:80:PRO:CD</td>
<td>2:P:70:SER:OG</td>
<td>2.56</td>
<td>0.54</td>
</tr>
<tr>
<td>2:P:80:PRO:CD</td>
<td>2:Q:70:SER:OG</td>
<td>2.56</td>
<td>0.54</td>
</tr>
<tr>
<td>2:T:77:ARG:HD3</td>
<td>2:U:72:PRO:HG3</td>
<td>1.90</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:433:ASN:OD1</td>
<td>1:A:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:F:77:VAL:HG23</td>
<td>1:F:92:ALA:HB1</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:G:430:ARG:HG2</td>
<td>1:G:430:ARG:NH1</td>
<td>2.17</td>
<td>0.54</td>
</tr>
<tr>
<td>1:J:441:LYS:HB3</td>
<td>1:J:445:ARG:HH21</td>
<td>1.73</td>
<td>0.54</td>
</tr>
<tr>
<td>1:L:149:THR:HG22</td>
<td>1:L:156:GLU:HA</td>
<td>1.90</td>
<td>0.54</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:L:184:GLN:OE1</td>
<td>1:L:184:GLN:HA</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>2:S:77:ARG:HD3</td>
<td>2:T:72:PRO:HG3</td>
<td>1.90</td>
<td>0.54</td>
</tr>
<tr>
<td>2:T:80:PRO:CD</td>
<td>2:U:70:SER:OG</td>
<td>2.56</td>
<td>0.54</td>
</tr>
<tr>
<td>1:G:419:LEU:HG</td>
<td>1:G:447:MET:HG2</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:H:419:LEU:HG</td>
<td>1:H:447:MET:HG2</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:K:18:ARG:OG</td>
<td>1:K:18:ARG:NH1</td>
<td>2.70</td>
<td>0.54</td>
</tr>
<tr>
<td>1:M:433:ASN:OD1</td>
<td>1:M:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:M:510:VAL:HG12</td>
<td>1:M:514:MET:HE1</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>2:S:80:PRO:CD</td>
<td>2:T:70:SER:OG</td>
<td>2.56</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:146:GLN:CB</td>
<td>1:C:494:LEU:CD1</td>
<td>2.85</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:267:MET:SD</td>
<td>1:D:305:ILE:CD1</td>
<td>2.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:E:441:LYS:HB3</td>
<td>1:E:445:ARG:HH21</td>
<td>1.73</td>
<td>0.54</td>
</tr>
<tr>
<td>1:H:111:MET:HG3</td>
<td>1:H:435:ASP:OD1</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:H:441:LYS:HB3</td>
<td>1:H:445:ARG:HH21</td>
<td>1.73</td>
<td>0.54</td>
</tr>
<tr>
<td>1:I:111:MET:HG3</td>
<td>1:I:435:ASP:OD1</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:J:433:ASN:OD1</td>
<td>1:J:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:K:148:LYS:HG2</td>
<td>1:K:44:PHG:CE2</td>
<td>2.43</td>
<td>0.54</td>
</tr>
<tr>
<td>1:L:149:THR:CG2</td>
<td>1:L:159:GLY:HA3</td>
<td>2.37</td>
<td>0.54</td>
</tr>
<tr>
<td>1:N:111:MET:HG3</td>
<td>1:N:435:ASP:OD1</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:N:433:ASN:OD1</td>
<td>1:N:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:111:MET:HG3</td>
<td>1:B:435:ASP:OD1</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:419:LEU:HG</td>
<td>1:B:447:MET:HG2</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:18:ARG:NH1</td>
<td>1:C:18:ARG:CG</td>
<td>2.70</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:433:ASN:OD1</td>
<td>1:C:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:D:138:CYS:SG</td>
<td>1:D:411:VAL:CG1</td>
<td>2.96</td>
<td>0.54</td>
</tr>
<tr>
<td>1:F:172:GLU:O</td>
<td>1:F:369:VAL:CG2</td>
<td>2.54</td>
<td>0.54</td>
</tr>
<tr>
<td>1:H:433:ASN:OD1</td>
<td>1:H:436:GLN:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:I:184:GLN:OE1</td>
<td>1:I:184:GLN:HA</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>1:I:147:VAL:CG2</td>
<td>1:I:496:PRO:HG3</td>
<td>2.14</td>
<td>0.54</td>
</tr>
<tr>
<td>1:I:77:VAL:HG23</td>
<td>1:I:92:ALA:HB1</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:J:152:ALA:O</td>
<td>1:J:153:ASN:HB3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:J:175:ILE:HD13</td>
<td>1:J:404:ARG:NH2</td>
<td>2.22</td>
<td>0.54</td>
</tr>
<tr>
<td>1:J:42:LYS:HG2</td>
<td>1:J:44:PHG:CE2</td>
<td>2.43</td>
<td>0.54</td>
</tr>
<tr>
<td>1:K:77:VAL:HG23</td>
<td>1:K:92:ALA:HB1</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>2:Q:80:PRO:CD</td>
<td>2:R:70:SER:OG</td>
<td>2.56</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:441:LYS:HB3</td>
<td>1:A:445:ARG:HH21</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:138:CYS:SG</td>
<td>1:B:411:VAL:CG1</td>
<td>2.96</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:409:GLU:HB3</td>
<td>1:D:498:LYS:HB2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:441:LYS:HB3</td>
<td>1:D:445:ARG:HH21</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>1:F:111:MET:HG3</td>
<td>1:F:435:ASP:OD1</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:L:145:ALA:O</td>
<td>1:L:149:THR:HG23</td>
<td>2.08</td>
<td>0.53</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:M:145:ALA:O</td>
<td>1:M:149:THR:HG23</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:419:LEU:HG</td>
<td>1:C:447:MET:HG2</td>
<td>1.89</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:111:MET:HG3</td>
<td>1:C:435:ASP:OD1</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:E:172:GLU:O</td>
<td>1:E:369:VAL:CG2</td>
<td>2.54</td>
<td>0.53</td>
</tr>
<tr>
<td>1:F:42:LYS:HG2</td>
<td>1:F:44:PHE:CE2</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>1:F:441:LYS:HB3</td>
<td>1:F:445:ARG:HH21</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>1:G:42:LYS:HG2</td>
<td>1:G:44:PHE:CE2</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>1:J:77:VAL:HG23</td>
<td>1:J:92:ALA:HB1</td>
<td>1.89</td>
<td>0.53</td>
</tr>
<tr>
<td>1:K:111:MET:HG3</td>
<td>1:K:435:ASP:OD1</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:K:147:VAL:CG2</td>
<td>1:K:496:PRO:CG</td>
<td>2.75</td>
<td>0.53</td>
</tr>
<tr>
<td>1:M:149:THR:HG22</td>
<td>1:M:156:GLU:HA</td>
<td>1.89</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:42:LYS:HG2</td>
<td>1:B:44:PHE:CE2</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>1:E:433:ASN:OD1</td>
<td>1:E:436:GLN:HG3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:H:152:ALA:O</td>
<td>1:H:153:ASN:HB3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:I:152:ALA:O</td>
<td>1:I:153:ASN:HB3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:I:441:LYS:HB3</td>
<td>1:I:445:ARG:HH21</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>1:J:192:GLY:C</td>
<td>1:J:376:VAL:CG2</td>
<td>2.77</td>
<td>0.53</td>
</tr>
<tr>
<td>1:J:386:GLU:HG2</td>
<td>1:J:390:LYS:HE2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:J:402:ALA:O</td>
<td>1:J:406:ALA:N</td>
<td>2.32</td>
<td>0.53</td>
</tr>
<tr>
<td>1:K:145:ALA:O</td>
<td>1:K:149:THR:HG23</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:M:111:MET:HG3</td>
<td>1:M:435:ASP:OD1</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:M:192:GLY:C</td>
<td>1:M:376:VAL:CG2</td>
<td>2.77</td>
<td>0.53</td>
</tr>
<tr>
<td>1:N:147:VAL:HG21</td>
<td>1:N:496:PRO:HB3</td>
<td>1.89</td>
<td>0.53</td>
</tr>
<tr>
<td>2:O:70:SER:OG</td>
<td>2:U:80:PRO:CD</td>
<td>2.56</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:409:GLU:HB3</td>
<td>1:C:498:LYS:HB2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:I:145:ALA:O</td>
<td>1:I:149:THR:HG23</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:I:386:GLU:HG2</td>
<td>1:I:390:LYS:HE2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:N:145:ALA:O</td>
<td>1:N:149:THR:HG23</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:N:192:GLY:C</td>
<td>1:N:376:VAL:CG2</td>
<td>2.77</td>
<td>0.53</td>
</tr>
<tr>
<td>1:N:510:VAL:HG12</td>
<td>1:N:514:MET:HE1</td>
<td>1.89</td>
<td>0.53</td>
</tr>
<tr>
<td>1:E:111:MET:HG3</td>
<td>1:E:435:ASP:OD1</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:H:42:LYS:HG2</td>
<td>1:H:44:PHE:CE2</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>1:K:147:VAL:HG23</td>
<td>1:K:496:PRO:CB</td>
<td>2.38</td>
<td>0.53</td>
</tr>
<tr>
<td>1:K:386:GLU:HG2</td>
<td>1:K:390:LYS:HE2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:M:42:LYS:HG2</td>
<td>1:M:44:PHE:CE2</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>1:M:441:LYS:HB3</td>
<td>1:M:445:ARG:HH21</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>2:R:77:ARG:HD3</td>
<td>2:S:72:PRO:HG3</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:111:MET:HG3</td>
<td>1:A:435:ASP:OD1</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:138:CYS:SG</td>
<td>1:C:411:VAL:CG1</td>
<td>2.96</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:42:LYS:HG2</td>
<td>1:D:44:PHE:CE2</td>
<td>2.43</td>
<td>0.53</td>
</tr>
</tbody>
</table>
### Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:E:42:LYS:HG2</td>
<td>1:E:44:PHE:CE2</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>1:G:136:VAL:CA</td>
<td>1:G:137:PRO:CD</td>
<td>2.83</td>
<td>0.53</td>
</tr>
<tr>
<td>1:H:386:GLU:HG2</td>
<td>1:H:390:LYS:HE2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:H:395:ARG:O</td>
<td>1:H:398:ASP:HB2</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:I:147:VAL:HG21</td>
<td>1:I:496:PRO:HB3</td>
<td>1.89</td>
<td>0.53</td>
</tr>
<tr>
<td>1:L:152:ALA:O</td>
<td>1:L:153:ASN:HB3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:M:147:VAL:HG23</td>
<td>1:M:496:PRO:CB</td>
<td>2.39</td>
<td>0.53</td>
</tr>
<tr>
<td>1:M:184:GLN:OE1</td>
<td>1:M:184:GLN:HA</td>
<td>2.07</td>
<td>0.53</td>
</tr>
<tr>
<td>1:M:395:ARG:O</td>
<td>1:M:398:ASP:HB2</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:N:386:GLU:HG2</td>
<td>1:N:390:LYS:HE2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>2:S:82:PRO:HA</td>
<td>2:T:110:TYR:CD1</td>
<td>2.42</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:441:LYS:HB3</td>
<td>1:B:445:ARG:HH21</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:267:MET:SD</td>
<td>1:E:305:ILE:CD1</td>
<td>2.89</td>
<td>0.53</td>
</tr>
<tr>
<td>1:H:145:ALA:O</td>
<td>1:H:149:THR:HG23</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:I:192:GLY:C</td>
<td>1:I:376:VAL:CG2</td>
<td>2.77</td>
<td>0.53</td>
</tr>
<tr>
<td>1:K:149:THR:HG22</td>
<td>1:K:156:GLU:HA</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:M:152:ALA:O</td>
<td>1:M:153:ASN:HB3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:M:386:GLU:HG2</td>
<td>1:M:390:LYS:HE2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:N:395:ARG:O</td>
<td>1:N:398:ASP:HB2</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>2:S:17:ILE:CD1</td>
<td>2:T:108:CYS:HB3</td>
<td>2.34</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:42:LYS:HG2</td>
<td>1:C:44:PHE:CE2</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>1:E:143:GLU:HB3</td>
<td>1:E:411:VAL:CG1</td>
<td>2.96</td>
<td>0.53</td>
</tr>
<tr>
<td>1:E:409:GLU:HB2</td>
<td>1:E:498:LYS:HB2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:I:42:LYS:HG2</td>
<td>1:I:44:PHE:CE2</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>1:L:267:MET:O</td>
<td>1:L:268:ARG:HB2</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:L:386:GLU:HG2</td>
<td>1:L:390:LYS:HE2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:111:MET:HG3</td>
<td>1:D:435:ASP:OD1</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:433:ASN:OD1</td>
<td>1:D:436:GLN:HG3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:I:147:VAL:HG23</td>
<td>1:I:496:PRO:CB</td>
<td>2.39</td>
<td>0.53</td>
</tr>
<tr>
<td>1:K:192:GLY:C</td>
<td>1:K:376:VAL:CG2</td>
<td>2.77</td>
<td>0.53</td>
</tr>
<tr>
<td>1:N:147:VAL:HG23</td>
<td>1:N:496:PRO:CB</td>
<td>2.39</td>
<td>0.53</td>
</tr>
<tr>
<td>2:S:80:PRO:CD</td>
<td>2:S:70:SER:OG</td>
<td>2.56</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:409:GLU:HB3</td>
<td>1:B:498:LYS:HB2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:G:409:GLU:HB3</td>
<td>1:G:498:LYS:HB2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:I:147:VAL:HA</td>
<td>1:I:150:ILE:HD12</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>1:L:395:ARG:O</td>
<td>1:L:398:ASP:HB2</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:J:395:ARG:O</td>
<td>1:J:398:ASP:HB2</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:K:147:VAL:CG2</td>
<td>1:K:496:PRO:HG3</td>
<td>2.14</td>
<td>0.53</td>
</tr>
<tr>
<td>1:M:149:THR:CG2</td>
<td>1:M:159:GLY:HA3</td>
<td>2.36</td>
<td>0.53</td>
</tr>
</tbody>
</table>

*Continued on next page...*
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:N:152:ALA:O</td>
<td>1:N:153:ASN:HB3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:136:VAL:CA</td>
<td>1:C:137:PRO:CD</td>
<td>2.83</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:146:GLN:CB</td>
<td>1:C:494:LEU:HG</td>
<td>2.34</td>
<td>0.52</td>
</tr>
<tr>
<td>1:H:192:GLY:C</td>
<td>1:H:376:VAL:CG2</td>
<td>2.77</td>
<td>0.52</td>
</tr>
<tr>
<td>1:L:111:MET:HG3</td>
<td>1:L:435:ASP:OD1</td>
<td>2.08</td>
<td>0.52</td>
</tr>
<tr>
<td>1:N:147:VAL:HA</td>
<td>1:N:150:ILE:HD12</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>1:N:430:ARG:NH1</td>
<td>1:N:430:ARG:HG2</td>
<td>2.17</td>
<td>0.52</td>
</tr>
<tr>
<td>2:S:5:GLN:HG3</td>
<td>2:S:6:GLN:NE2</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>2:T:5:GLN:HG3</td>
<td>2:T:6:GLN:NE2</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>1:G:138:CYS:SG</td>
<td>1:G:411:VAL:CG1</td>
<td>2.96</td>
<td>0.52</td>
</tr>
<tr>
<td>1:K:395:ARG:O</td>
<td>1:K:398:ASP:HB2</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>1:L:18:ARG:NH1</td>
<td>1:L:18:ARG:CG</td>
<td>2.70</td>
<td>0.52</td>
</tr>
<tr>
<td>1:N:192:GLY:CA</td>
<td>1:N:376:VAL:CG2</td>
<td>2.83</td>
<td>0.52</td>
</tr>
<tr>
<td>1:H:44:PHE:H</td>
<td>1:H:44:PHE:HD1</td>
<td>1.55</td>
<td>0.52</td>
</tr>
<tr>
<td>1:K:152:ALA:O</td>
<td>1:K:153:ASN:HB3</td>
<td>2.08</td>
<td>0.52</td>
</tr>
<tr>
<td>1:K:403:THR:O</td>
<td>1:K:407:VAL:HG23</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>1:M:267:MET:O</td>
<td>1:M:268:ARG:HB2</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>1:M:385:THR:CG2</td>
<td>1:M:388:GLU:HB3</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>2:O:5:GLN:HG3</td>
<td>2:O:6:GLN:NE2</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:409:GLU:HB3</td>
<td>1:A:498:LYS:HB2</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>1:J:403:THR:O</td>
<td>1:J:407:VAL:HG23</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>1:K:267:MET:O</td>
<td>1:K:268:ARG:HB2</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>1:L:385:THR:CG2</td>
<td>1:L:388:GLU:HB3</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>2:O:77:ARG:HD3</td>
<td>2:P:72:PRO:HG3</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>1:D:18:ARG:CG</td>
<td>1:D:18:ARG:NH1</td>
<td>2.70</td>
<td>0.52</td>
</tr>
<tr>
<td>1:D:430:ARG:NH1</td>
<td>1:D:430:ARG:HG2</td>
<td>2.17</td>
<td>0.52</td>
</tr>
<tr>
<td>1:H:430:ARG:HG2</td>
<td>1:H:430:ARG:NH1</td>
<td>2.17</td>
<td>0.52</td>
</tr>
<tr>
<td>1:I:403:THR:O</td>
<td>1:J:407:VAL:HG23</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>1:L:161:LEU:H</td>
<td>1:L:161:LEU:CD1</td>
<td>2.23</td>
<td>0.52</td>
</tr>
<tr>
<td>1:L:42:LYS:HG2</td>
<td>1:L:44:PHE:CE2</td>
<td>2.43</td>
<td>0.52</td>
</tr>
<tr>
<td>1:M:147:VAL:HA</td>
<td>1:M:150:ILE:HD12</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:455:VAL:HG21</td>
<td>1:C:465:VAL:HG11</td>
<td>1.92</td>
<td>0.52</td>
</tr>
<tr>
<td>1:G:441:LYS:HB3</td>
<td>1:G:445:ARG:HH21</td>
<td>1.73</td>
<td>0.52</td>
</tr>
<tr>
<td>1:G:405:ALA:HB1</td>
<td>1:G:498:LYS:HB3</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>1:H:147:VAL:HA</td>
<td>1:H:150:ILE:HD12</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>1:N:42:LYS:HG2</td>
<td>1:N:44:PHE:CE2</td>
<td>2.43</td>
<td>0.52</td>
</tr>
<tr>
<td>2:Q:5:GLN:HG3</td>
<td>2:Q:6:GLN:NE2</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>2:U:5:GLN:HG3</td>
<td>2:U:6:GLN:NE2</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:405:ALA:HB1</td>
<td>1:A:498:LYS:HB3</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>1:H:267:MET:O</td>
<td>1:H:268:ARG:HB2</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>1:I:385:THR:CG2</td>
<td>1:I:388:GLU:HB3</td>
<td>2.40</td>
<td>0.52</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:J:145:ALA:O</td>
<td>1:J:149:THR:HG23</td>
<td>2.08</td>
<td>0.52</td>
</tr>
<tr>
<td>1:K:161:LEU:H</td>
<td>1:K:161:LEU:CD1</td>
<td>2.23</td>
<td>0.52</td>
</tr>
<tr>
<td>1:K:455:VAL:HG21</td>
<td>1:K:465:VAL:HG11</td>
<td>1.92</td>
<td>0.52</td>
</tr>
<tr>
<td>1:L:403:THR:O</td>
<td>1:L:407:VAL:HG23</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>2:Q:85:ALA:HA</td>
<td>2:R:48:LEU:CD1</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>1:D:455:VAL:HG21</td>
<td>1:D:465:VAL:HG11</td>
<td>1.92</td>
<td>0.52</td>
</tr>
<tr>
<td>1:F:264:VAL:HG13</td>
<td>1:G:306:GLY:HA3</td>
<td>1.92</td>
<td>0.52</td>
</tr>
<tr>
<td>1:L:192:GLY:C</td>
<td>1:L:376:VAL:CG2</td>
<td>2.77</td>
<td>0.52</td>
</tr>
<tr>
<td>1:M:161:LEU:CD1</td>
<td>1:M:161:LEU:H</td>
<td>2.23</td>
<td>0.52</td>
</tr>
<tr>
<td>1:N:161:LEU:CD1</td>
<td>1:N:161:LEU:H</td>
<td>2.23</td>
<td>0.52</td>
</tr>
<tr>
<td>2:O:85:ALA:HA</td>
<td>2:P:48:LEU:CD1</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>2:P:5:GLN:HG3</td>
<td>2:P:6:GLN:NE2</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>2:R:5:GLN:HG3</td>
<td>2:R:6:GLN:NE2</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:138:CYS:SG</td>
<td>1:A:411:VAL:CG1</td>
<td>2.96</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:405:ALA:HB1</td>
<td>1:C:498:LYS:HB3</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>1:H:403:THR:O</td>
<td>1:H:407:VAL:HG23</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:464:VAL:HG22</td>
<td>1:H:467:ASN:HB2</td>
<td>1.92</td>
<td>0.52</td>
</tr>
<tr>
<td>1:L:455:VAL:HG21</td>
<td>1:L:465:VAL:HG11</td>
<td>1.92</td>
<td>0.52</td>
</tr>
<tr>
<td>1:N:149:THR:CG2</td>
<td>1:N:159:GLY:HA3</td>
<td>2.37</td>
<td>0.52</td>
</tr>
<tr>
<td>2:P:85:ALA:HA</td>
<td>2:Q:48:LEU:CD1</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:42:LYS:HG2</td>
<td>1:A:44:PHE:CE2</td>
<td>2.43</td>
<td>0.52</td>
</tr>
<tr>
<td>1:B:136:VAL:CA</td>
<td>1:B:137:PRO:CD</td>
<td>2.83</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:146:GLN:HB3</td>
<td>1:C:494:LEU:CG</td>
<td>2.35</td>
<td>0.52</td>
</tr>
<tr>
<td>1:D:146:GLN:CB</td>
<td>1:D:494:LEU:HG</td>
<td>2.34</td>
<td>0.52</td>
</tr>
<tr>
<td>1:N:149:THR:HG22</td>
<td>1:N:156:GLU:HA</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>1:N:267:MET:O</td>
<td>1:N:268:ARG:HB2</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>2:P:77:ARG:HD3</td>
<td>2:Q:72:PRO:HG3</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>2:R:85:ALA:HA</td>
<td>2:S:48:LEU:CD1</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:136:VAL:CA</td>
<td>1:A:137:PRO:CD</td>
<td>2.83</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:18:ARG:CG</td>
<td>1:A:18:ARG:NH1</td>
<td>2.70</td>
<td>0.51</td>
</tr>
<tr>
<td>1:B:455:VAL:HG21</td>
<td>1:B:465:VAL:HG11</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:306:GLY:HA3</td>
<td>1:G:264:VAL:HG13</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:487:ASN:O</td>
<td>1:G:491:MET:HG3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:H:192:GLY:O</td>
<td>1:H:376:VAL:CG2</td>
<td>2.83</td>
<td>0.51</td>
</tr>
</tbody>
</table>

Continued on next page...
## Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å)
---|---|---|---
1:B:464:VAL:HG22 | 1:I:467:ASN:HB2 | 1.92 | 0.51
1:I:149:THR:HG22 | 1:J:156:GLU:HA | 1.90 | 0.51
1:N:385:THR:CG2 | 1:N:388:GLU:HB3 | 2.40 | 0.51
1:D:405:ALA:HB1 | 1:D:498:LYS:HB3 | 1.91 | 0.51
1:E:146:GLN:HB3 | 1:E:494:LEU:CG | 2.35 | 0.51
1:E:405:ALA:HB1 | 1:E:498:LYS:HB3 | 1.91 | 0.51
1:F:409:GLU:HB3 | 1:F:498:LYS:HB2 | 1.90 | 0.51
1:H:149:THR:HG22 | 1:H:156:GLU:HA | 1.90 | 0.51
1:I:267:MET:O | 1:I:268:ARG:HB2 | 2.09 | 0.51
1:I:487:ASN:O | 1:I:491:MET:HG3 | 2.10 | 0.51
1:I:487:ASN:O | 1:J:491:MET:HG3 | 2.10 | 0.51
1:D:44:PHN:H | 1:D:44:PHN:HD1 | 1.55 | 0.51
1:E:146:GLN:CB | 1:E:494:LEU:HG | 2.34 | 0.51
1:H:487:ASN:O | 1:H:491:MET:HG3 | 2.11 | 0.51
1:I:161:LEU:CD1 | 1:I:161:LEU:H | 2.23 | 0.51
1:J:385:THR:CG2 | 1:J:388:GLU:HB3 | 2.40 | 0.51
1:K:385:THR:CG2 | 1:K:388:GLU:HB3 | 2.40 | 0.51
1:L:395:ARG:O | 1:L:398:ASP:HB2 | 2.09 | 0.51
1:M:143:ALA:C | 1:M:146:GLN:HB3 | 2.31 | 0.51
1:M:403:THR:O | 1:M:407:VAL:HG23 | 2.10 | 0.51
1:N:487:ASN:O | 1:N:491:MET:HG3 | 2.10 | 0.51
1:E:18:ARG:CG | 1:E:18:ARG:NH1 | 2.70 | 0.51
1:H:149:THR:CG2 | 1:H:159:GLY:HA3 | 2.37 | 0.51
1:H:161:LEU:CD1 | 1:H:161:LEU:H | 2.22 | 0.51
1:K:143:ALA:C | 1:K:146:GLN:HB3 | 2.31 | 0.51
1:N:403:THR:O | 1:N:407:VAL:HG23 | 2.10 | 0.51
1:B:405:ALA:HB1 | 1:B:498:LYS:HB3 | 1.91 | 0.51
1:E:264:VAL:HG13 | 1:F:306:GLY:HA3 | 1.92 | 0.51
1:H:402:ALA:O | 1:H:406:ALA:N | 2.32 | 0.51
1:I:149:THR:HG22 | 1:I:156:GLU:HA | 1.90 | 0.51
1:J:147:VAL:HA | 1:J:150:ILE:HD12 | 1.91 | 0.51
1:E:463:SER:HG | 1:L:464:VAL:HG23 | 1.75 | 0.51
2:R:17:ILE:CD1 | 2:S:108:CYS:HB3 | 2.34 | 0.51
2:O:106:ILE:O | 2:U:12:VAL:CG2 | 2.58 | 0.51
1:F:172:GLU:OE1 | 1:F:350:ARG:HG3 | 2.11 | 0.51
1:F:18:ARG:NH1 | 1:F:18:ARG:CG | 2.70 | 0.51
1:H:147:VAL:HG23 | 1:H:496:PRO:CB | 2.39 | 0.51
1:I:149:THR:CG2 | 1:I:159:GLY:HA3 | 2.37 | 0.51
1:J:267:MET:O | 1:J:268:ARG:HB2 | 2.09 | 0.51

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:D:464:VAL:HG22</td>
<td>1:K:467:ASN:HB2</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>1:K:487:ASN:O</td>
<td>1:K:491:MET:HG3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>2:O:17:ILE:CD1</td>
<td>2:P:108:CYS:HB3</td>
<td>2.34</td>
<td>0.51</td>
</tr>
<tr>
<td>2:Q:12:VAL:CG2</td>
<td>2:R:106:ILE:O</td>
<td>2.59</td>
<td>0.51</td>
</tr>
<tr>
<td>2:S:85:ALA:HA</td>
<td>2:T:48:LEU:CD1</td>
<td>2.40</td>
<td>0.51</td>
</tr>
<tr>
<td>1:B:172:GLU:OE1</td>
<td>1:B:350:ARG:HG3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:F:487:ASN:O</td>
<td>1:F:491:MET:HG3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:L:192:GLY:CA</td>
<td>1:L:376:VAL:CG2</td>
<td>2.83</td>
<td>0.51</td>
</tr>
<tr>
<td>1:L:194:GLN:HB2</td>
<td>1:L:331:THR:HB</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>2:P:12:VAL:CG2</td>
<td>2:Q:106:ILE:O</td>
<td>2.58</td>
<td>0.51</td>
</tr>
<tr>
<td>2:T:17:ILE:CD1</td>
<td>2:U:108:CYS:HB3</td>
<td>2.34</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:172:GLU:OE1</td>
<td>1:A:350:ARG:HG3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:44:PHE:HD1</td>
<td>1:C:44:PHE:H</td>
<td>1.55</td>
<td>0.51</td>
</tr>
<tr>
<td>1:I:190:VAL:HG22</td>
<td>1:I:191:GLU:N</td>
<td>2.26</td>
<td>0.51</td>
</tr>
<tr>
<td>1:M:194:GLN:HB2</td>
<td>1:M:331:THR:HB</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>2:Q:77:ARG:HD3</td>
<td>2:R:72:PRO:HG3</td>
<td>1.90</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:487:ASN:O</td>
<td>1:A:491:MET:HG3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:E:487:ASN:O</td>
<td>1:E:491:MET:HG3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:F:405:ALA:HB1</td>
<td>1:F:498:LYS:HB3</td>
<td>1.91</td>
<td>0.51</td>
</tr>
<tr>
<td>1:F:146:GLN:CB</td>
<td>1:F:494:LEU:HG</td>
<td>2.34</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:172:GLU:OE1</td>
<td>1:G:350:ARG:HG3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:18:ARG:NH1</td>
<td>1:G:18:ARG:CG</td>
<td>2.70</td>
<td>0.51</td>
</tr>
<tr>
<td>1:I:180:GLY:HA2</td>
<td>1:I:380:LYS:HB3</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>1:I:430:ARG:HG2</td>
<td>1:I:430:ARG:NH1</td>
<td>2.17</td>
<td>0.51</td>
</tr>
<tr>
<td>1:J:161:LEU:H</td>
<td>1:J:161:LEU:CD1</td>
<td>2.22</td>
<td>0.51</td>
</tr>
<tr>
<td>1:J:44:PHE:H</td>
<td>1:J:44:PHE:HD1</td>
<td>1.55</td>
<td>0.51</td>
</tr>
<tr>
<td>2:T:12:VAL:CG2</td>
<td>2:U:106:ILE:O</td>
<td>2.58</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:172:GLU:OE1</td>
<td>1:C:350:ARG:HG3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:487:ASN:O</td>
<td>1:C:491:MET:HG3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:E:172:GLU:OE1</td>
<td>1:E:350:ARG:HG3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:L:147:VAL:HA</td>
<td>1:L:150:ILE:HD12</td>
<td>1.91</td>
<td>0.51</td>
</tr>
<tr>
<td>1:M:18:ARG:CG</td>
<td>1:M:18:ARG:NH1</td>
<td>2.70</td>
<td>0.51</td>
</tr>
<tr>
<td>1:M:381:VAL:HB</td>
<td>1:M:389:MET:CE</td>
<td>2.41</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:406:ALA:CB</td>
<td>1:A:496:PRO:HB3</td>
<td>2.27</td>
<td>0.50</td>
</tr>
<tr>
<td>1:E:44:PHE:HD1</td>
<td>1:E:44:PHE:H</td>
<td>1.55</td>
<td>0.50</td>
</tr>
<tr>
<td>1:N:18:ARG:CG</td>
<td>1:N:18:ARG:NH1</td>
<td>2.70</td>
<td>0.50</td>
</tr>
<tr>
<td>1:N:381:VAL:HB</td>
<td>1:N:389:MET:CE</td>
<td>2.41</td>
<td>0.50</td>
</tr>
<tr>
<td>2:O:108:CYS:HB3</td>
<td>2:U:17:ILE:CD1</td>
<td>2.34</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:264:VAL:HG13</td>
<td>1:B:306:GLY:HA3</td>
<td>1.92</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:487:ASN:O</td>
<td>1:B:491:MET:HG3</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:L:147:VAL:CG2</td>
<td>1:L:496:PRO:CG</td>
<td>2.75</td>
<td>0.50</td>
</tr>
<tr>
<td>1:M:190:VAL:HG22</td>
<td>1:M:191:GLU:N</td>
<td>2.26</td>
<td>0.50</td>
</tr>
<tr>
<td>1:M:487:ASN:O</td>
<td>1:M:491:MET:HG3</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:D:487:ASN:O</td>
<td>1:D:491:MET:HG3</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:H:180:GLY:HA2</td>
<td>1:H:380:LYS:HB3</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:H:147:VAL:CG2</td>
<td>1:H:496:PRO:HG3</td>
<td>2.14</td>
<td>0.50</td>
</tr>
<tr>
<td>1:I:194:GLN:HB2</td>
<td>1:I:331:THR:HB</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:J:180:GLY:HA2</td>
<td>1:J:380:LYS:HB3</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:J:147:VAL:CG2</td>
<td>1:J:496:PRO:CG</td>
<td>2.75</td>
<td>0.50</td>
</tr>
<tr>
<td>1:M:389:MET:HE1</td>
<td>1:M:389:MET:O</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>2:R:12:VAL:CG2</td>
<td>2:S:106:ILE:O</td>
<td>2.59</td>
<td>0.50</td>
</tr>
<tr>
<td>2:S:12:VAL:CG2</td>
<td>2:T:106:ILE:O</td>
<td>2.58</td>
<td>0.50</td>
</tr>
<tr>
<td>1:J:143:ALA:C</td>
<td>1:L:146:GLN:HB3</td>
<td>2.31</td>
<td>0.50</td>
</tr>
<tr>
<td>1:K:147:VAL:HA</td>
<td>1:K:150:ILE:HD12</td>
<td>1.91</td>
<td>0.50</td>
</tr>
<tr>
<td>1:K:391:GLU:O</td>
<td>1:K:394:ALA:HB3</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:L:391:GLU:O</td>
<td>1:L:394:ALA:HB3</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:E:464:VAL:HG22</td>
<td>1:L:467:ASN:HB2</td>
<td>1.92</td>
<td>0.50</td>
</tr>
<tr>
<td>1:N:194:GLN:HB2</td>
<td>1:N:331:THR:HB</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:N:193:MET:HG3</td>
<td>1:N:371:LYS:HB3</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:464:VAL:HG22</td>
<td>1:N:467:ASN:HB2</td>
<td>1.92</td>
<td>0.50</td>
</tr>
<tr>
<td>2:T:18:LEU:HD13</td>
<td>2:T:51:VAL:HA</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:146:GLN:CB</td>
<td>1:A:494:LEU:HG</td>
<td>2.34</td>
<td>0.50</td>
</tr>
<tr>
<td>1:D:264:VAL:HG13</td>
<td>1:E:306:GLY:HA3</td>
<td>1.92</td>
<td>0.50</td>
</tr>
<tr>
<td>1:H:193:MET:HG3</td>
<td>1:H:371:LYS:HB3</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:L:147:VAL:HG23</td>
<td>1:L:496:PRO:CB</td>
<td>2.39</td>
<td>0.50</td>
</tr>
<tr>
<td>1:L:487:ASN:O</td>
<td>1:L:491:MET:HG3</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:H:143:ALA:C</td>
<td>1:H:146:GLN:HB3</td>
<td>2.31</td>
<td>0.50</td>
</tr>
<tr>
<td>1:L:44:PHE:HD1</td>
<td>1:L:44:PHE:H</td>
<td>1.55</td>
<td>0.50</td>
</tr>
<tr>
<td>1:N:290:GLN:HB3</td>
<td>1:N:345:ARG:HH21</td>
<td>1.77</td>
<td>0.50</td>
</tr>
<tr>
<td>1:N:402:ALA:O</td>
<td>1:N:406:ALA:N</td>
<td>2.32</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:146:GLN:HB3</td>
<td>1:B:494:LEU:CG</td>
<td>2.35</td>
<td>0.50</td>
</tr>
<tr>
<td>1:H:381:VAL:HB</td>
<td>1:H:389:MET:CE</td>
<td>2.41</td>
<td>0.50</td>
</tr>
<tr>
<td>1:J:147:VAL:HG23</td>
<td>1:J:496:PRO:CB</td>
<td>2.39</td>
<td>0.50</td>
</tr>
<tr>
<td>1:J:391:GLU:O</td>
<td>1:J:394:ALA:HB3</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:L:190:VAL:HG22</td>
<td>1:L:191:GLU:N</td>
<td>2.26</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Continued on next page...
### Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:L:381:VAL:HB</td>
<td>1:L:389:MET:CE</td>
<td>2.41</td>
<td>0.50</td>
</tr>
<tr>
<td>1:M:391:GLU:O</td>
<td>1:M:394:ALA:HB3</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:N:391:GLU:O</td>
<td>1:N:394:ALA:HB3</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:J:149:THR:CG2</td>
<td>1:J:159:GLY:HA3</td>
<td>2.37</td>
<td>0.50</td>
</tr>
<tr>
<td>1:J:194:GLN:HB2</td>
<td>1:J:331:THR:HB</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:K:136:VAL:C</td>
<td>1:K:137:PRO:CB</td>
<td>2.79</td>
<td>0.50</td>
</tr>
<tr>
<td>1:F:464:VAL:HG22</td>
<td>1:M:467:ASN:HB2</td>
<td>1.92</td>
<td>0.50</td>
</tr>
<tr>
<td>2:Q:17:ILE:CD1</td>
<td>2:R:108:CYS:HB3</td>
<td>2.34</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:406:ALA:CB</td>
<td>1:C:496:PRO:HB3</td>
<td>2.27</td>
<td>0.50</td>
</tr>
<tr>
<td>1:H:194:GLN:HB2</td>
<td>1:H:331:THR:HB</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:I:193:MET:HG3</td>
<td>1:I:371:LYS:HB3</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:J:136:VAL:C</td>
<td>1:J:137:PRO:CB</td>
<td>2.79</td>
<td>0.50</td>
</tr>
<tr>
<td>1:M:193:MET:HG3</td>
<td>1:M:371:LYS:HB3</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>2:S:18:LEU:HD13</td>
<td>2:S:51:VAL:HA</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>1:H:391:GLU:O</td>
<td>1:H:394:ALA:HB3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:1:402:ALA:O</td>
<td>1:1:406:ALA:N</td>
<td>2.32</td>
<td>0.49</td>
</tr>
<tr>
<td>1:K:194:GLN:HB2</td>
<td>1:K:331:THR:HB</td>
<td>1.93</td>
<td>0.49</td>
</tr>
<tr>
<td>1:J:194:GLU:O</td>
<td>1:J:394:ALA:HB3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:J:143:ALA:C</td>
<td>1:J:146:GLN:HB3</td>
<td>2.31</td>
<td>0.49</td>
</tr>
<tr>
<td>1:L:143:ALA:C</td>
<td>1:L:146:GLN:HB3</td>
<td>2.31</td>
<td>0.49</td>
</tr>
<tr>
<td>1:L:193:MET:HG3</td>
<td>1:L:371:LYS:HB3</td>
<td>1.93</td>
<td>0.49</td>
</tr>
<tr>
<td>1:N:135:SER:HG</td>
<td>1:N:137:PRO:CA</td>
<td>2.15</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:150:ILE:CD1</td>
<td>1:C:493:ILE:HA</td>
<td>2.43</td>
<td>0.49</td>
</tr>
<tr>
<td>1:E:406:ALA:CB</td>
<td>1:E:496:PRO:HB3</td>
<td>2.27</td>
<td>0.49</td>
</tr>
<tr>
<td>1:H:290:GLN:HB3</td>
<td>1:H:345:ARG:HH21</td>
<td>1.77</td>
<td>0.49</td>
</tr>
<tr>
<td>1:J:193:MET:HG3</td>
<td>1:J:371:LYS:HB3</td>
<td>1.93</td>
<td>0.49</td>
</tr>
<tr>
<td>1:K:193:MET:HG3</td>
<td>1:K:371:LYS:HB3</td>
<td>1.93</td>
<td>0.49</td>
</tr>
<tr>
<td>1:K:180:GLY:HA2</td>
<td>1:K:380:LYS:HB3</td>
<td>1.93</td>
<td>0.49</td>
</tr>
<tr>
<td>1:K:95:LEU:HD13</td>
<td>1:K:504:LEU:HD23</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:L:290:GLN:HB3</td>
<td>1:L:345:ARG:HH21</td>
<td>1.77</td>
<td>0.49</td>
</tr>
<tr>
<td>1:M:192:GLY:CA</td>
<td>1:M:376:VAL:CG2</td>
<td>2.83</td>
<td>0.49</td>
</tr>
<tr>
<td>1:N:214:GLU:HG2</td>
<td>1:N:324:VAL:HG12</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:172:GLU:OE1</td>
<td>1:D:350:ARG:HG3</td>
<td>2.11</td>
<td>0.49</td>
</tr>
</tbody>
</table>

**Continued on next page...**
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:E:95:LEU:HD13</td>
<td>1:E:504:LEU:HD23</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:F:44:PHE:HD1</td>
<td>1:F:44:PHE:H</td>
<td>1.55</td>
<td>0.49</td>
</tr>
<tr>
<td>1:I:136:VAL:C</td>
<td>1:I:137:PRO:CB</td>
<td>2.79</td>
<td>0.49</td>
</tr>
<tr>
<td>1:L:180:GLY:HA2</td>
<td>1:L:380:LYS:HB3</td>
<td>1.93</td>
<td>0.49</td>
</tr>
<tr>
<td>1:L:95:LEU:HD13</td>
<td>1:L:504:LEU:HD23</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:M:180:GLY:HA2</td>
<td>1:M:380:LYS:HB3</td>
<td>1.93</td>
<td>0.49</td>
</tr>
<tr>
<td>1:M:214:GLU:HG2</td>
<td>1:M:324:VAL:HG12</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:M:290:GLN:HB3</td>
<td>1:M:345:ARG:HH21</td>
<td>1.77</td>
<td>0.49</td>
</tr>
<tr>
<td>2:O:18:LEU:HD13</td>
<td>2:O:51:VAL:HA</td>
<td>1.93</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:44:PHE:HD1</td>
<td>1:B:44:PHE:H</td>
<td>1.55</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:264:VAL:HG13</td>
<td>1:C:306:GLY:HA3</td>
<td>1.92</td>
<td>0.49</td>
</tr>
<tr>
<td>1:K:190:VAL:HG22</td>
<td>1:K:191:GLU:N</td>
<td>2.26</td>
<td>0.49</td>
</tr>
<tr>
<td>1:K:214:GLU:HG2</td>
<td>1:K:324:VAL:HG12</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>1:K:179:ASP:OD2</td>
<td>1:K:390:LYS:HG2</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:L:214:GLU:HG2</td>
<td>1:L:324:VAL:HG12</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:18:ARG:CG</td>
<td>1:B:18:ARG:NH1</td>
<td>2.70</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:409:GLU:HB2</td>
<td>1:C:498:LYS:HB2</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:451:LEU:O</td>
<td>1:C:451:LEU:HD22</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:95:LEU:HD13</td>
<td>1:C:504:LEU:HD23</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:31:LEU:HD23</td>
<td>1:D:453:GLN:HB3</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:95:LEU:HD13</td>
<td>1:D:504:LEU:HD23</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:E:150:ILE:CD1</td>
<td>1:E:493:ILE:HA</td>
<td>2.43</td>
<td>0.49</td>
</tr>
<tr>
<td>1:F:146:GLN:HB3</td>
<td>1:F:494:LEU:CG</td>
<td>2.35</td>
<td>0.49</td>
</tr>
<tr>
<td>1:H:136:VAL:C</td>
<td>1:H:137:PRO:CB</td>
<td>2.79</td>
<td>0.49</td>
</tr>
<tr>
<td>1:H:179:ASP:OD2</td>
<td>1:H:390:LYS:HG2</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:I:381:VAL:HB</td>
<td>1:I:389:MET:CE</td>
<td>2.41</td>
<td>0.49</td>
</tr>
<tr>
<td>1:K:402:ALA:O</td>
<td>1:K:406:ALA:N</td>
<td>2.32</td>
<td>0.49</td>
</tr>
<tr>
<td>1:N:143:ALA:C</td>
<td>1:N:146:GLN:HB3</td>
<td>2.31</td>
<td>0.49</td>
</tr>
<tr>
<td>1:F:95:LEU:HD13</td>
<td>1:F:504:LEU:HD23</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:J:381:VAL:HB</td>
<td>1:J:389:MET:CE</td>
<td>2.41</td>
<td>0.49</td>
</tr>
<tr>
<td>1:J:95:LEU:HD13</td>
<td>1:J:504:LEU:HD23</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:K:381:VAL:HB</td>
<td>1:K:389:MET:CE</td>
<td>2.41</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:95:LEU:HD13</td>
<td>1:B:504:LEU:HD23</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:H:214:GLU:HG2</td>
<td>1:H:324:VAL:HG12</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:J:214:GLU:HG2</td>
<td>1:J:324:VAL:HG12</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:J:179:ASP:OD2</td>
<td>1:J:390:LYS:HG2</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:J:399:ALA:O</td>
<td>1:J:400:LEU:C</td>
<td>2.51</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:464:VAL:HG22</td>
<td>1:C:467:ASN:HB2</td>
<td>1.92</td>
<td>0.49</td>
</tr>
</tbody>
</table>

Continued on next page...
### Atom-1 | Atom-2 | Interatomic distance (Å) | Clash overlap (Å)
---|---|---|---
1:L:147:VAL:CG2 | 1:L:496:PRO:HG3 | 2.14 | 0.49
1:M:221:LEU:HD12 | 1:M:249:ILE:HG23 | 1.95 | 0.49
1:N:136:VAL:C | 1:N:137:PRO:CB | 2.79 | 0.49
1:N:180:GLY:HA2 | 1:N:380:LYS:HB3 | 1.93 | 0.49
1:N:95:LEU:HD13 | 1:N:504:LEU:HD23 | 1.95 | 0.49
2:P:18:LEU:HD13 | 2:P:51:VAL:HA | 1.93 | 0.49
2:R:18:LEU:HD13 | 2:R:51:VAL:HA | 1.94 | 0.49
1:C:31:LEU:HD23 | 1:C:453:GLN:HB3 | 1.95 | 0.49
1:C:264:VAL:HG13 | 1:D:306:GLY:HA3 | 1.92 | 0.49
1:E:203:TYR:HH | 1:F:286:LYS:CD | 2.01 | 0.49
1:I:214:GLU:HG2 | 1:I:324:VAL:HG12 | 1.95 | 0.49
1:L:383:ALA:CB | 1:L:389:MET:HA | 2.43 | 0.49
1:N:221:LEU:HD12 | 1:N:249:ILE:HG23 | 1.95 | 0.49
1:N:179:ASP:OD2 | 1:N:390:LYS:HG2 | 2.13 | 0.49
1:B:451:LEU:HD22 | 1:B:451:LEU:O | 2.12 | 0.49
1:G:146:GLN:CB | 1:G:494:LEU:HG | 2.34 | 0.49
1:H:161:LEU:HD12 | 1:H:161:LEU:N | 2.28 | 0.49
1:K:399:ALA:O | 1:K:400:LEU:C | 2.51 | 0.49
1:L:179:ASP:OD2 | 1:L:390:LYS:HG2 | 2.13 | 0.49
1:M:95:LEU:HD13 | 1:M:504:LEU:HD23 | 1.95 | 0.49
1:A:409:GLU:O | 1:A:497:THR:HB | 2.13 | 0.48
1:D:409:GLU:O | 1:D:497:THR:HB | 2.13 | 0.48
1:E:409:GLU:HB2 | 1:E:498:LYS:HB2 | 1.95 | 0.48
1:G:365:LEU:O | 1:G:369:VAL:HG13 | 2.13 | 0.48
1:G:31:LEU:HD23 | 1:G:453:GLN:HB3 | 1.95 | 0.48
1:G:409:GLU:HB2 | 1:G:498:LYS:HB2 | 1.94 | 0.48
1:I:161:LEU:HD12 | 1:I:161:LEU:N | 2.28 | 0.48
1:L:221:LEU:HD12 | 1:L:249:ILE:HG23 | 1.95 | 0.48
1:L:137:PRO:C | 1:L:410:GLY:HA2 | 2.34 | 0.48
1:H:95:LEU:HD13 | 1:H:504:LEU:HD23 | 1.95 | 0.48
1:M:383:ALA:CB | 1:M:389:MET:HA | 2.43 | 0.48
1:A:150:ILE:CD1 | 1:A:493:ILE:HA | 2.43 | 0.48
1:D:338:GLU:H | 1:D:338:GLU:CD | 2.17 | 0.48
1:F:31:LEU:HD23 | 1:F:453:GLN:HB3 | 1.95 | 0.48
1:G:44:PHE:H | 1:G:44:PHE:HD1 | 1.55 | 0.48
1:I:290:GLN:HB3 | 1:I:345:ARG:HH21 | 1.77 | 0.48
1:I:179:ASP:OD2 | 1:I:390:LYS:HG2 | 2.13 | 0.48

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:J:290:GLN:HB3</td>
<td>1:J:345:ARG:HH21</td>
<td>1.77</td>
<td>0.48</td>
</tr>
<tr>
<td>1:K:383:ALA:CB</td>
<td>1:K:389:MET:HA</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>1:N:137:PRO:C</td>
<td>1:N:410:GLY:HA2</td>
<td>2.34</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:146:GLN:HB3</td>
<td>1:A:494:LEU:CG</td>
<td>2.35</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:409:GLU:HB2</td>
<td>1:A:498:LYS:HB2</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:31:LEU:HD23</td>
<td>1:B:453:GLN:HB3</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:451:LEU:HD22</td>
<td>1:D:451:LEU:O</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:365:LEU:O</td>
<td>1:E:369:VAL:HG13</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:H:221:LEU:HD12</td>
<td>1:H:249:ILE:HG23</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:J:31:LEU:HD23</td>
<td>1:J:453:GLN:HB3</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:K:149:THR:CG2</td>
<td>1:K:159:GLY:HA3</td>
<td>2.37</td>
<td>0.48</td>
</tr>
<tr>
<td>1:M:402:ALA:O</td>
<td>1:M:406:ALA:N</td>
<td>2.32</td>
<td>0.48</td>
</tr>
<tr>
<td>1:N:399:ALA:O</td>
<td>1:N:400:LEU:C</td>
<td>2.51</td>
<td>0.48</td>
</tr>
<tr>
<td>1:N:31:LEU:HD23</td>
<td>1:N:453:GLN:HB3</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:409:GLU:O</td>
<td>1:E:497:THR:HB</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>1:H:399:ALA:O</td>
<td>1:H:400:LEU:C</td>
<td>2.51</td>
<td>0.48</td>
</tr>
<tr>
<td>1:I:95:LEU:HD13</td>
<td>1:I:504:LEU:HD23</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:K:290:GLN:HB3</td>
<td>1:K:345:ARG:HH21</td>
<td>1.77</td>
<td>0.48</td>
</tr>
<tr>
<td>1:L:402:ALA:O</td>
<td>1:L:406:ALA:N</td>
<td>2.32</td>
<td>0.48</td>
</tr>
<tr>
<td>2:P:17:ILE:CD1</td>
<td>2:Q:108:CYS:HB3</td>
<td>2.34</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:95:LEU:HD13</td>
<td>1:A:504:LEU:HD23</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:K:221:LEU:HD12</td>
<td>1:K:249:ILE:HG23</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:M:179:ASP:OD2</td>
<td>1:M:390:LYS:HG2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:N:44:PHE:H</td>
<td>1:N:44:PHE:HD1</td>
<td>1.55</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:44: PHE:HD1</td>
<td>1:A:44:PHE:H</td>
<td>1.55</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:409:GLU:O</td>
<td>1:B:497:THR:HB</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:409:GLU:O</td>
<td>1:C:497:THR:HB</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:146:GLN:HB3</td>
<td>1:G:494:LEU:CG</td>
<td>2.36</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:500:ILE:CD1</td>
<td>1:G:493:ILE:HA</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:409:GLU:O</td>
<td>1:G:497:THR:HB</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:95:LEU:HD13</td>
<td>1:G:504:LEU:HD23</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:I:221:LEU:HD12</td>
<td>1:I:249:ILE:HG23</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:M:161:LEU:HD12</td>
<td>1:M:161:LEU:N</td>
<td>2.28</td>
<td>0.48</td>
</tr>
<tr>
<td>1:M:399:ALA:O</td>
<td>1:M:400:LEU:C</td>
<td>2.51</td>
<td>0.48</td>
</tr>
<tr>
<td>1:M:31:LEU:HD23</td>
<td>1:M:453:GLN:HB3</td>
<td>1.95</td>
<td>0.48</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:B:338:GLU:H</td>
<td>1:B:338:GLU:CD</td>
<td>2.17</td>
<td>0.48</td>
</tr>
<tr>
<td>1:F:409:GLU:HB2</td>
<td>1:F:498:LYS:HB2</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:305:ILE:HG22</td>
<td>1:G:263:VAL:HG12</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>1:1:161:LEU:N</td>
<td>1:E:161:LEU:HD12</td>
<td>2.28</td>
<td>0.48</td>
</tr>
<tr>
<td>1:1:31:LEU:HD23</td>
<td>1:1:453:GLN:HB3</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:J:221:LEU:HD12</td>
<td>1:J:249:ILE:HG23</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:K:136:VAL:C</td>
<td>1:K:137:PRO:HB2</td>
<td>2.34</td>
<td>0.48</td>
</tr>
<tr>
<td>1:M:160:LYS:HG2</td>
<td>1:M:164:GLU:OE2</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>1:N:136:VAL:C</td>
<td>1:N:137:PRO:HB2</td>
<td>2.34</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:263:VAL:HG12</td>
<td>1:B:305:ILE:HG22</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:146:GLN:HB2</td>
<td>1:B:494:LEU:HD12</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:146:GLN:HB2</td>
<td>1:C:494:LEU:HD12</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:237:LEU:HD21</td>
<td>1:D:271:VAL:HG21</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:J:383:ALA:CB</td>
<td>1:J:389:MET:HA</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:31:LEU:HD23</td>
<td>1:A:453:GLN:HB3</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:338:GLU:CD</td>
<td>1:C:338:GLU:H</td>
<td>2.17</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:31:LEU:HD23</td>
<td>1:E:453:GLN:HB3</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:K:161:LEU:N</td>
<td>1:K:161:LEU:HD12</td>
<td>2.28</td>
<td>0.48</td>
</tr>
<tr>
<td>1:K:31:LEU:HD23</td>
<td>1:L:161:LEU:HD12</td>
<td>2.28</td>
<td>0.48</td>
</tr>
<tr>
<td>1:L:161:LEU:N</td>
<td>1:N:383:ALA:CB</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:237:LEU:HD21</td>
<td>1:B:271:VAL:HG21</td>
<td>1.95</td>
<td>0.47</td>
</tr>
<tr>
<td>1:E:338:GLU:CD</td>
<td>1:E:338:GLU:H</td>
<td>2.17</td>
<td>0.47</td>
</tr>
<tr>
<td>1:L:160:LYS:HG2</td>
<td>1:L:164:GLU:OE2</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:266:THR:HG23</td>
<td>1:A:272:LYS:HA</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:266:THR:HG23</td>
<td>1:B:272:LYS:HA</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:365:LEU:O</td>
<td>1:B:369:VAL:HG13</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:365:LEU:O</td>
<td>1:D:369:VAL:HG13</td>
<td>2.13</td>
<td>0.47</td>
</tr>
<tr>
<td>1:E:363:VAL:HG12</td>
<td>1:G:305:ILE:HG22</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:I:136:VAL:C</td>
<td>1:I:137:PRO:HB2</td>
<td>2.34</td>
<td>0.47</td>
</tr>
<tr>
<td>1:M:136:VAL:C</td>
<td>1:M:137:PRO:CB</td>
<td>2.79</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:409:GLU:HB2</td>
<td>1:B:498:LYS:HB2</td>
<td>1.94</td>
<td>0.47</td>
</tr>
<tr>
<td>1:F:266:THR:HG23</td>
<td>1:F:272:LYS:HA</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:100:ILE:HG13</td>
<td>1:G:511:ALA:HB1</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:L:399:ALA:O</td>
<td>1:L:400:LEU:C</td>
<td>2.51</td>
<td>0.47</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:N:175:ILE:CD1</td>
<td>1:N:175:ILE:N</td>
<td>2.77</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:100:ILE:HG13</td>
<td>1:A:511:ALA:HB1</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:237:LEU:HD21</td>
<td>1:C:271:VAL:HG21</td>
<td>1.95</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:146:GLN:HB2</td>
<td>1:D:494:LEU:HD12</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:E:266:THR:HG23</td>
<td>1:E:272:LYS:HA</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:K:192:GLY:CA</td>
<td>1:K:376:VAL:CG2</td>
<td>2.83</td>
<td>0.47</td>
</tr>
<tr>
<td>2:R:10:ARG:O</td>
<td>2:S:108:CYS:CA</td>
<td>2.62</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:289:LEU:HA</td>
<td>1:B:292:ILE:HD12</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:409:GLU:HB2</td>
<td>1:D:498:LYS:HB2</td>
<td>1.94</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:266:THR:HG23</td>
<td>1:G:272:LYS:HA</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:H:383:ALA:CB</td>
<td>1:H:389:MET:HA</td>
<td>2.43</td>
<td>0.47</td>
</tr>
<tr>
<td>1:I:100:ILE:HG13</td>
<td>1:I:511:ALA:HB1</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:L:399:ALA:O</td>
<td>1:L:400:LEU:C</td>
<td>2.51</td>
<td>0.47</td>
</tr>
<tr>
<td>1:J:160:LYS:HG2</td>
<td>1:J:164:GLU:OE2</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:218:PRO:HB3</td>
<td>1:A:246:PRO:HB2</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:266:THR:HG23</td>
<td>1:C:272:LYS:HA</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:289:LEU:HA</td>
<td>1:C:292:ILE:HD12</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:266:THR:HG23</td>
<td>1:D:272:LYS:HA</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:F:100:ILE:HG13</td>
<td>1:F:511:ALA:HB1</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:I:383:ALA:CB</td>
<td>1:I:389:MET:HA</td>
<td>2.43</td>
<td>0.47</td>
</tr>
<tr>
<td>1:J:100:ILE:HG13</td>
<td>1:J:511:ALA:HB1</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:L:136:VAL:C</td>
<td>1:L:137:PRO:HB2</td>
<td>2.34</td>
<td>0.47</td>
</tr>
<tr>
<td>1:M:136:VAL:C</td>
<td>1:M:137:PRO:HB2</td>
<td>2.35</td>
<td>0.47</td>
</tr>
<tr>
<td>1:M:313:THR:HG22</td>
<td>1:M:314:LEU:H</td>
<td>1.80</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:218:PRO:HB3</td>
<td>1:B:246:PRO:HB2</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:150:ILE:CD1</td>
<td>1:B:493:ILE:HA</td>
<td>2.43</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:150:ILE:CD1</td>
<td>1:D:493:ILE:HA</td>
<td>2.43</td>
<td>0.47</td>
</tr>
<tr>
<td>1:F:218:PRO:HB3</td>
<td>1:F:246:PRO:HB2</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:F:150:ILE:CD1</td>
<td>1:F:493:ILE:HA</td>
<td>2.43</td>
<td>0.47</td>
</tr>
<tr>
<td>1:H:100:ILE:HG13</td>
<td>1:H:511:ALA:HB1</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:100:ILE:HG13</td>
<td>1:B:511:ALA:HB1</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:F:146:GLN:HB2</td>
<td>1:F:494:LEU:HD12</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:I:169:VAL:CG1</td>
<td>1:I:173:GLY:HA3</td>
<td>2.42</td>
<td>0.47</td>
</tr>
<tr>
<td>1:I:147:VAL:CG2</td>
<td>1:I:496:PRO:CB</td>
<td>2.93</td>
<td>0.47</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:L:31:LEU:HD23</td>
<td>1:L:453:GLN:HB3</td>
<td>1.95</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:365:LEU:O</td>
<td>1:C:369:VAL:HG13</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:289:LEU:HA</td>
<td>1:D:292:ILE:HD12</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:E:146:GLN:HB2</td>
<td>1:E:494:LEU:HD12</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:E:263:VAL:HG12</td>
<td>1:F:305:ILE:HG22</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:146:GLN:HB2</td>
<td>1:G:494:LEU:HD12</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:H:147:VAL:CG2</td>
<td>1:H:496:PRO:CB</td>
<td>2.93</td>
<td>0.47</td>
</tr>
<tr>
<td>1:I:160:LYS:HG2</td>
<td>1:I:164:GLU:OE2</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:K:160:LYS:HG2</td>
<td>1:K:164:GLU:OE2</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:K:175:ILE:CD1</td>
<td>1:K:175:ILE:N</td>
<td>2.77</td>
<td>0.47</td>
</tr>
<tr>
<td>1:L:313:THR:HG22</td>
<td>1:L:314:LEU:H</td>
<td>1.80</td>
<td>0.47</td>
</tr>
<tr>
<td>1:M:228:SER:O</td>
<td>1:M:257:GLU:HB3</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:218:PRO:HB3</td>
<td>1:G:246:PRO:HB2</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:I:513:LEU:HA</td>
<td>1:I:513:LEU:HD23</td>
<td>1.72</td>
<td>0.47</td>
</tr>
<tr>
<td>1:M:137:PRO:C</td>
<td>1:M:410:GLY:HA2</td>
<td>2.33</td>
<td>0.47</td>
</tr>
<tr>
<td>1:N:228:SER:O</td>
<td>1:N:257:GLU:HB3</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:N:313:THR:HG22</td>
<td>1:N:314:LEU:H</td>
<td>1.80</td>
<td>0.47</td>
</tr>
<tr>
<td>1:N:100:ILE:HG13</td>
<td>1:N:511:ALA:HB1</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>2:T:7:LEU:HB3</td>
<td>2:T:8:PRO:HD2</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:351:GLN:O</td>
<td>1:A:351:GLN:HG2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:H:136:VAL:C</td>
<td>1:H:137:PRO:HB2</td>
<td>2.34</td>
<td>0.46</td>
</tr>
<tr>
<td>1:H:157:THR:O</td>
<td>1:H:161:LEU:CD1</td>
<td>2.64</td>
<td>0.46</td>
</tr>
<tr>
<td>1:H:175:ILE:N</td>
<td>1:H:175:ILE:CD1</td>
<td>2.77</td>
<td>0.46</td>
</tr>
<tr>
<td>1:H:217:SER:HA</td>
<td>1:H:320:ALA:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:J:147:VAL:CG2</td>
<td>1:J:496:PRO:CB</td>
<td>2.93</td>
<td>0.46</td>
</tr>
<tr>
<td>1:K:217:SER:HA</td>
<td>1:K:320:ALA:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:K:313:THR:HG22</td>
<td>1:K:314:LEU:H</td>
<td>1.79</td>
<td>0.46</td>
</tr>
<tr>
<td>1:N:147:VAL:CG2</td>
<td>1:N:496:PRO:CB</td>
<td>2.93</td>
<td>0.46</td>
</tr>
<tr>
<td>2:O:10:ARG:O</td>
<td>2:P:108:CYS:CA</td>
<td>2.62</td>
<td>0.46</td>
</tr>
<tr>
<td>2:U:7:LEU:HB3</td>
<td>2:U:8:PRO:HD2</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:289:LEU:HA</td>
<td>1:F:292:ILE:HD12</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:J:313:THR:HG22</td>
<td>1:J:314:LEU:H</td>
<td>1.79</td>
<td>0.46</td>
</tr>
<tr>
<td>1:J:316:VAL:C</td>
<td>1:J:137:PRO:HB2</td>
<td>2.34</td>
<td>0.46</td>
</tr>
<tr>
<td>1:J:313:THR:HG22</td>
<td>1:J:314:LEU:H</td>
<td>1.80</td>
<td>0.46</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:K:100:ILE:HG13</td>
<td>1:K:511:ALA:HB1</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:M:513:LEU:HD23</td>
<td>1:M:513:LEU:HA</td>
<td>1.72</td>
<td>0.46</td>
</tr>
<tr>
<td>2:Q:10:ARG:O</td>
<td>2:R:108:CYS:CA</td>
<td>2.62</td>
<td>0.46</td>
</tr>
<tr>
<td>2:S:7:LEU:HB3</td>
<td>2:S:8:PRO:HD2</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:351:GLN:HG2</td>
<td>1:C:351:GLN:O</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:E:289:LEU:HA</td>
<td>1:E:292:ILE:HD12</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:E:461:GLU:OE1</td>
<td>1:L:463:SER:HB3</td>
<td>2.13</td>
<td>0.46</td>
</tr>
<tr>
<td>1:I:228:SER:O</td>
<td>1:I:257:GLU:HB3</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:L:192:GLY:CA</td>
<td>1:L:376:VAL:CG2</td>
<td>2.83</td>
<td>0.46</td>
</tr>
<tr>
<td>1:L:228:SER:O</td>
<td>1:L:257:GLU:HB3</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:N:157:THR:O</td>
<td>1:N:161:LEU:CD1</td>
<td>2.64</td>
<td>0.46</td>
</tr>
<tr>
<td>2:P:7:LEU:HB3</td>
<td>2:P:8:PRO:HD2</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>2:Q:7:LEU:HB3</td>
<td>2:Q:8:PRO:HD2</td>
<td>1.98</td>
<td>0.46</td>
</tr>
<tr>
<td>2:R:7:LEU:HB3</td>
<td>2:R:8:PRO:HD2</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:351:GLN:O</td>
<td>1:D:351:GLN:HG2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:464:VAL:HB</td>
<td>1:K:467:ASN:HD21</td>
<td>1.78</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:464:VAL:HB</td>
<td>1:H:467:ASN:HD21</td>
<td>1.78</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:218:PRO:HB3</td>
<td>1:D:246:PRO:HB2</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:263:VAL:HG12</td>
<td>1:E:305:ILE:HG22</td>
<td>1.96</td>
<td>0.46</td>
</tr>
<tr>
<td>1:I:149:THR:HG22</td>
<td>1:I:156:GLU:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:J:137:PRO:C</td>
<td>1:J:410:GLY:HA2</td>
<td>2.33</td>
<td>0.46</td>
</tr>
<tr>
<td>1:M:149:THR:HG22</td>
<td>1:M:156:GLU:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>2:O:7:LEU:HB3</td>
<td>2:O:8:PRO:HD2</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:351:GLN:O</td>
<td>1:B:351:GLN:HG2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:513:LEU:HD23</td>
<td>1:B:513:LEU:HA</td>
<td>1.73</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:100:ILE:HG13</td>
<td>1:C:511:ALA:HB1</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:351:GLN:HG2</td>
<td>1:G:351:GLN:O</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:H:228:SER:O</td>
<td>1:H:257:GLU:HB3</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:J:149:THR:HG22</td>
<td>1:J:156:GLU:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:K:228:SER:O</td>
<td>1:K:257:GLU:HB3</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:L:100:ILE:HG13</td>
<td>1:L:511:ALA:HB1</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:M:169:VAL:CG1</td>
<td>1:M:173:GLY:HA3</td>
<td>2.42</td>
<td>0.46</td>
</tr>
<tr>
<td>1:H:149:THR:HG22</td>
<td>1:H:156:GLU:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:J:217:SER:HA</td>
<td>1:J:320:ALA:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:M:100:ILE:HG13</td>
<td>1:M:511:ALA:HB1</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:N:149:THR:HG22</td>
<td>1:N:156:GLU:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:N:217:SER:HA</td>
<td>1:N:320:ALA:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:263:VAL:HG12</td>
<td>1:D:305:ILE:HG22</td>
<td>1.96</td>
<td>0.46</td>
</tr>
<tr>
<td>1:H:137:PRO:C</td>
<td>1:H:410:GLY:HA2</td>
<td>2.34</td>
<td>0.46</td>
</tr>
<tr>
<td>1:J:169:VAL:CG1</td>
<td>1:J:173:GLY:HA3</td>
<td>2.42</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:461:GLU:OE1</td>
<td>1:K:463:SER:HB3</td>
<td>2.13</td>
<td>0.46</td>
</tr>
<tr>
<td>1:M:157:THR:O</td>
<td>1:M:161:LEU:CD1</td>
<td>2.64</td>
<td>0.46</td>
</tr>
<tr>
<td>2:S:10:ARG:O</td>
<td>2:T:108:CYS:CA</td>
<td>2.62</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:146:GLN:HB2</td>
<td>1:A:494:LEU:HD12</td>
<td>1.96</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:136:VAL:CA</td>
<td>1:D:137:PRO:CD</td>
<td>2.83</td>
<td>0.46</td>
</tr>
<tr>
<td>1:H:313:THR:HG22</td>
<td>1:H:314:LEU:H</td>
<td>1.80</td>
<td>0.46</td>
</tr>
<tr>
<td>1:J:228:SER:O</td>
<td>1:J:257:GLU:HB3</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:100:ILE:HG13</td>
<td>1:D:511:ALA:HB1</td>
<td>1.97</td>
<td>0.45</td>
</tr>
<tr>
<td>1:F:461:GLU:OE1</td>
<td>1:M:463:SER:HB3</td>
<td>2.13</td>
<td>0.45</td>
</tr>
<tr>
<td>1:I:217:SER:HA</td>
<td>1:I:320:ALA:O</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:J:192:GLY:CA</td>
<td>1:J:376:VAL:CG2</td>
<td>2.83</td>
<td>0.45</td>
</tr>
<tr>
<td>1:L:217:SER:HA</td>
<td>1:L:320:ALA:O</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:F:366:GLN:O</td>
<td>1:F:369:VAL:HG22</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:366:GLN:O</td>
<td>1:G:369:VAL:HG22</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:K:137:ILE:CD1</td>
<td>1:M:175:ILE:N</td>
<td>2.77</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:320:ALA:HA</td>
<td>1:G:335:GLY:HA2</td>
<td>1.99</td>
<td>0.45</td>
</tr>
<tr>
<td>1:J:178:GLU:O</td>
<td>1:J:380:LYS:HA</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:K:137:PRO:C</td>
<td>1:K:410:GLY:HA2</td>
<td>2.34</td>
<td>0.45</td>
</tr>
<tr>
<td>2:S:80:PRO:HD2</td>
<td>2:S:70:SER:CB</td>
<td>2.47</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:366:GLN:O</td>
<td>1:A:369:VAL:HG22</td>
<td>2.16</td>
<td>0.45</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:E:366:GLN:O</td>
<td>1:E:369:VAL:HG22</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:J:389:MET:O</td>
<td>1:J:389:MET:HE1</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:L:157:THR:O</td>
<td>1:L:161:LEU:CD1</td>
<td>2.64</td>
<td>0.45</td>
</tr>
<tr>
<td>1:M:217:SER:HA</td>
<td>1:M:320:ALA:O</td>
<td>2.15</td>
<td>0.45</td>
</tr>
<tr>
<td>2:O:80:PRO:HG2</td>
<td>2:P:70:SER:CB</td>
<td>2.47</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:197:ARG:CD</td>
<td>1:C:277:LYS:HB2</td>
<td>2.23</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:461:GLU:OE1</td>
<td>1:J:463:SER:HB3</td>
<td>2.13</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:197:ARG:CD</td>
<td>1:G:277:LYS:HB2</td>
<td>2.23</td>
<td>0.45</td>
</tr>
<tr>
<td>1:K:149:THR:HG22</td>
<td>1:K:156:GLU:O</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:K:157:THR:O</td>
<td>1:K:161:LEU:CD1</td>
<td>2.64</td>
<td>0.45</td>
</tr>
<tr>
<td>1:K:169:VAL:CG1</td>
<td>1:K:173:GLY:HA3</td>
<td>2.42</td>
<td>0.45</td>
</tr>
<tr>
<td>1:L:169:VAL:CG1</td>
<td>1:L:173:GLY:HA3</td>
<td>2.42</td>
<td>0.45</td>
</tr>
<tr>
<td>1:N:513:LEU:HG23</td>
<td>1:N:513:LEU:HA</td>
<td>1.72</td>
<td>0.45</td>
</tr>
<tr>
<td>2:O:70:SER:CB</td>
<td>2:U:80:PRO:HG2</td>
<td>2.47</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:464:VAL:HB</td>
<td>1:I:467:ASN:HG21</td>
<td>1.78</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:366:GLN:O</td>
<td>1:D:369:VAL:HG22</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:464:VAL:HB</td>
<td>1:N:467:ASN:HG21</td>
<td>1.78</td>
<td>0.45</td>
</tr>
<tr>
<td>1:I:178:GLU:O</td>
<td>1:I:380:LYS:HA</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:K:178:GLU:O</td>
<td>1:K:380:LYS:HA</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:L:421:ARG:HA</td>
<td>1:L:421:ARG:HA3</td>
<td>1.78</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:320:ALA:HA</td>
<td>1:A:335:GLY:HA2</td>
<td>1.99</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:263:VAL:HG2</td>
<td>1:C:305:ILE:HG22</td>
<td>1.96</td>
<td>0.45</td>
</tr>
<tr>
<td>1:F:320:ALA:HA</td>
<td>1:F:335:GLY:HA2</td>
<td>1.99</td>
<td>0.45</td>
</tr>
<tr>
<td>1:I:18:ARG:NH1</td>
<td>1:I:18:ARG:CG</td>
<td>2.70</td>
<td>0.45</td>
</tr>
<tr>
<td>1:I:137:PRO:C</td>
<td>1:I:410:GLY:HG2</td>
<td>2.33</td>
<td>0.45</td>
</tr>
<tr>
<td>1:J:157:THR:O</td>
<td>1:J:161:LEU:CD1</td>
<td>2.64</td>
<td>0.45</td>
</tr>
<tr>
<td>1:L:313:THR:HG22</td>
<td>1:L:314:LEU:HG12</td>
<td>1.99</td>
<td>0.45</td>
</tr>
<tr>
<td>1:M:147:VAL:CG2</td>
<td>1:M:496:PRO:CB</td>
<td>2.93</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:366:GLN:O</td>
<td>1:B:369:VAL:HG22</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:461:GLU:OE1</td>
<td>1:I:463:SER:HB3</td>
<td>2.13</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:444:LEU:O</td>
<td>1:C:447:MET:HB2</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:M:514:MET:HE3</td>
<td>1:M:514:MET:HE3</td>
<td>1.89</td>
<td>0.45</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:F:44:LEU:O</td>
<td>1:F:447:MET:HB2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:H:18:ARG:CG</td>
<td>1:H:18:ARG:NH1</td>
<td>2.70</td>
<td>0.44</td>
</tr>
<tr>
<td>1:I:421:ARG:HD3</td>
<td>1:I:421:ARG:HA</td>
<td>1.78</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:366:GLN:O</td>
<td>1:C:369:VAL:HG22</td>
<td>2.16</td>
<td>0.44</td>
</tr>
<tr>
<td>1:K:513:LEU:HD23</td>
<td>1:K:513:LEU:HA</td>
<td>1.72</td>
<td>0.44</td>
</tr>
<tr>
<td>2:S:80:PRO:HD2</td>
<td>2:T:70:SER:CB</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:225:LYS:HG2</td>
<td>1:A:303:GLU:HB2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:421:ARG:HA</td>
<td>1:A:421:ARG:HD3</td>
<td>1.78</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:225:LYS:HG2</td>
<td>1:B:303:GLU:HB2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:444:LEU:O</td>
<td>1:D:447:MET:HB2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:320:ALA:HA</td>
<td>1:E:335:GLY:HA2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:I:44:PHE:HD1</td>
<td>1:I:44:PHE:H</td>
<td>1.55</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:461:GLU:OE1</td>
<td>1:H:463:SER:HB3</td>
<td>2.13</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:86:GLY:HA3</td>
<td>1:B:401:HIS:CB</td>
<td>2.48</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:225:LYS:HG2</td>
<td>1:E:303:GLU:HB2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:444:LEU:O</td>
<td>1:E:447:MET:HB2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:173:GLY:HA2</td>
<td>1:G:370:ALA:CB</td>
<td>2.45</td>
<td>0.44</td>
</tr>
<tr>
<td>2:Q:80:PRO:HD2</td>
<td>2:R:70:SER:CB</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>2:T:80:PRO:HD2</td>
<td>2:U:70:SER:CB</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:86:GLY:HA3</td>
<td>1:A:401:HIS:CB</td>
<td>2.48</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:162:ILE:HG12</td>
<td>1:C:400:LEU:HD23</td>
<td>2.00</td>
<td>0.44</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:D:225:LYS:HG2</td>
<td>1:D:303:GLU:HB2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:N:444:LEU:O</td>
<td>1:N:447:MET:HB2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:162:ILE:HG12</td>
<td>1:A:400:LEU:HD23</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:234:LEU:HB2</td>
<td>1:B:235:PRO:HD3</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:162:ILE:HG12</td>
<td>1:B:400:LEU:HD23</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:320:ALA:HA</td>
<td>1:C:335:GLY:HA2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:F:234:LEU:HB2</td>
<td>1:F:235:PRO:HD3</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:225:LYS:HG2</td>
<td>1:G:303:GLU:HB2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:513:LEU:HA</td>
<td>1:G:513:LEU:HD23</td>
<td>1.73</td>
<td>0.44</td>
</tr>
<tr>
<td>1:H:444:LEU:O</td>
<td>1:H:447:MET:HB2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:L:165:ALA:O</td>
<td>1:L:168:LYS:HB2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:M:421:ARG:HA</td>
<td>1:M:421:ARG:HD3</td>
<td>1.78</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:320:ALA:HA</td>
<td>1:B:335:GLY:HA2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:162:ILE:HG12</td>
<td>1:D:400:LEU:HD23</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:320:ALA:HA</td>
<td>1:D:335:GLY:HA2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:H:455:VAL:HG11</td>
<td>1:H:462:PRO:HA</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:I:444:LEU:O</td>
<td>1:I:447:MET:HB2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:J:444:LEU:O</td>
<td>1:J:447:MET:HB2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:M:178:GLU:O</td>
<td>1:M:380:LYS:HA</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>2:T:83:PHE:HD2</td>
<td>2:T:89:LYS:HD2</td>
<td>1.83</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:162:ILE:HG12</td>
<td>1:G:400:LEU:HD23</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:I:286:LYS:NZ</td>
<td>1:I:304:GLU:OE1</td>
<td>2.51</td>
<td>0.44</td>
</tr>
<tr>
<td>1:J:421:ARG:HA</td>
<td>1:J:421:ARG:HD3</td>
<td>1.78</td>
<td>0.44</td>
</tr>
<tr>
<td>1:K:158:VAL:C</td>
<td>1:K:160:LYS:N</td>
<td>2.71</td>
<td>0.44</td>
</tr>
<tr>
<td>1:K:165:ALA:O</td>
<td>1:K:168:LYS:HB2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:K:421:ARG:HA</td>
<td>1:K:421:ARG:HD3</td>
<td>1.78</td>
<td>0.44</td>
</tr>
<tr>
<td>1:K:455:VAL:HG11</td>
<td>1:K:462:PRO:HA</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:L:178:GLU:O</td>
<td>1:L:380:LYS:HA</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:L:513:LEU:HA</td>
<td>1:L:513:LEU:HD23</td>
<td>1.72</td>
<td>0.44</td>
</tr>
<tr>
<td>2:P:80:PRO:HD2</td>
<td>2:Q:70:SER:CB</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:444:LEU:O</td>
<td>1:B:447:MET:HB2</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:234:LEU:HB2</td>
<td>1:C:235:PRO:HD3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:464:VAL:HB</td>
<td>1:J:467:ASN:HD21</td>
<td>1.78</td>
<td>0.43</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:234:LEU:HB2</td>
<td>1:G:235:PRO:HD3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:I:153:ASN:O</td>
<td>1:I:154:SER:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:I:153:ASN:O</td>
<td>1:I:154:SER:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:L:147:VAL:CG2</td>
<td>1:L:496:PRO:CB</td>
<td>2.93</td>
<td>0.43</td>
</tr>
<tr>
<td>1:M:444:LEU:O</td>
<td>1:M:447:MET:HB2</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:N:455:VAL:HG11</td>
<td>1:N:462:PRO:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>2:U:83:PHE:HD2</td>
<td>2:U:89:LYS:HD2</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:234:LEU:HB2</td>
<td>1:A:235:PRO:HD3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:225:LYS:HG2</td>
<td>1:C:303:GLU:HB2</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:233:MET:HB3</td>
<td>1:D:237:LEU:HD12</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:78:ALA:HB2</td>
<td>1:D:93:THR:OG1</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:514:MET:HB2</td>
<td>1:G:514:MET:HE3</td>
<td>1.87</td>
<td>0.43</td>
</tr>
<tr>
<td>1:I:313:THR:HG22</td>
<td>1:I:314:LEU:HD12</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:J:286:LYS:NZ</td>
<td>1:J:304:GLU:OE1</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>1:J:455:VAL:HG11</td>
<td>1:J:462:PRO:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:K:153:ASN:O</td>
<td>1:K:154:SER:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:K:149:THR:HG21</td>
<td>1:K:156:GLU:HA</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:M:286:LYS:NZ</td>
<td>1:M:304:GLU:OE1</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>1:M:20:VAL:HG13</td>
<td>1:M:74:VAL:HG11</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:N:78:ALA:HB2</td>
<td>1:N:93:THR:OG1</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>2:S:83:PHE:HD2</td>
<td>2:S:89:LYS:HD2</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>2:S:86:LEU:HD23</td>
<td>2:T:68:LEU:CD2</td>
<td>2.49</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:78:ALA:HB2</td>
<td>1:A:93:THR:OG1</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:234:LEU:HB2</td>
<td>1:E:235:PRO:HD3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:F:455:VAL:HG11</td>
<td>1:F:462:PRO:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:455:VAL:HG11</td>
<td>1:G:462:PRO:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:86:GLY:HA3</td>
<td>1:G:401:HIS:CB</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>1:I:157:THR:O</td>
<td>1:I:161:LEU:CD1</td>
<td>2.64</td>
<td>0.43</td>
</tr>
<tr>
<td>1:I:165:ALA:O</td>
<td>1:I:168:LYS:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:I:389:MET:HE1</td>
<td>1:I:389:MET:O</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:I:514:MET:HE3</td>
<td>1:I:514:MET:HB2</td>
<td>1.92</td>
<td>0.43</td>
</tr>
<tr>
<td>1:J:165:ALA:O</td>
<td>1:J:168:LYS:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:N:20:VAL:HG13</td>
<td>1:N:74:VAL:HG11</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>2:O:86:LEU:HD23</td>
<td>2:P:68:LEU:CD2</td>
<td>2.49</td>
<td>0.43</td>
</tr>
<tr>
<td>2:P:83:PHE:HD2</td>
<td>2:P:89:LYS:HD2</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:444:LEU:O</td>
<td>1:A:447:MET:HB2</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:193:MET:HG3</td>
<td>1:B:371:LYS:HB3</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:78:ALA:HB2</td>
<td>1:B:93:THR:OG1</td>
<td>2.18</td>
<td>0.43</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:D:247:LEU:HB3</td>
<td>1:D:273:VAL:HG12</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:147:VAL:HG22</td>
<td>1:G:403:THR:HG22</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:H:165:ALA:O</td>
<td>1:H:168:LYS:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:J:18:ARG:NH1</td>
<td>1:J:18:ARG:CG</td>
<td>2.70</td>
<td>0.43</td>
</tr>
<tr>
<td>1:L:153:ASN:O</td>
<td>1:L:154:SER:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:L:389:MET:HE1</td>
<td>1:L:393:LYS:HB2</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:L:444:LEU:O</td>
<td>1:L:447:MET:HB2</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:M:149:THR:H</td>
<td>1:M:159:GLY:HA3</td>
<td>1.84</td>
<td>0.43</td>
</tr>
<tr>
<td>1:N:158:VAL:C</td>
<td>1:N:160:LYS:N</td>
<td>2.71</td>
<td>0.43</td>
</tr>
<tr>
<td>1:N:286:LYS:NZ</td>
<td>1:N:304:GLU:OE1</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>2:Q:83:PHE:HD2</td>
<td>2:Q:89:LYS:HD2</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>2:R:12:VAL:HG23</td>
<td>2:S:106:ILE:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:193:MET:HG3</td>
<td>1:C:371:LYS:HB3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:20:VAL:HG13</td>
<td>1:C:74:VAL:HG11</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:162:ILE:HG12</td>
<td>1:E:400:LEU:HD23</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:F:173:GLY:HA2</td>
<td>1:F:370:ALA:CB</td>
<td>2.45</td>
<td>0.43</td>
</tr>
<tr>
<td>1:F:225:LYS:HG2</td>
<td>1:F:303:GLU:HB2</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:K:197:ARG:HG2</td>
<td>1:K:277:LYS:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:K:44:PHE:H</td>
<td>1:K:44:PHE:HD1</td>
<td>1.55</td>
<td>0.43</td>
</tr>
<tr>
<td>1:L:455:VAL:HG11</td>
<td>1:L:462:PRO:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:L:20:VAL:HG13</td>
<td>1:L:74:VAL:HG11</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:M:165:ALA:O</td>
<td>1:M:168:LYS:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:N:149:THR:H</td>
<td>1:N:159:GLY:HA3</td>
<td>1.84</td>
<td>0.43</td>
</tr>
<tr>
<td>1:N:165:ALA:O</td>
<td>1:N:168:LYS:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>2:Q:12:VAL:HG23</td>
<td>2:R:106:ILE:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:147:VAL:HG22</td>
<td>1:A:403:THR:HG22</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:247:LEU:HB3</td>
<td>1:C:273:VAL:HG12</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:234:LEU:HB2</td>
<td>1:D:235:PRO:HD3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:F:162:ILE:HG12</td>
<td>1:F:400:LEU:HD23</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:H:153:ASN:O</td>
<td>1:H:154:SER:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:H:286:LYS:NZ</td>
<td>1:H:304:GLU:OE1</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>1:I:455:VAL:HG11</td>
<td>1:I:462:PRO:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:M:153:ASN:O</td>
<td>1:M:154:SER:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:20:VAL:HG13</td>
<td>1:B:74:VAL:HG11</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:233:MET:HB3</td>
<td>1:C:237:LEU:HD12</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:197:ARG:CD</td>
<td>1:E:277:LYS:HB2</td>
<td>2.23</td>
<td>0.43</td>
</tr>
<tr>
<td>1:F:193:MET:HG3</td>
<td>1:F:371:LYS:HB3</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:444:LEU:O</td>
<td>1:G:447:MET:HB2</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:I:78:ALA:HB2</td>
<td>1:I:93:THR:OG1</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>2:T:86:LEU:HD23</td>
<td>2:U:68:LEU:CD2</td>
<td>2.49</td>
<td>0.43</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:173:GLY:HA2</td>
<td>1:A:370:ALA:CB</td>
<td>2.45</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:147:VAL:HG22</td>
<td>1:D:403:THR:HG22</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:455:VAL:HG11</td>
<td>1:D:462:PRO:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:455:VAL:HG11</td>
<td>1:E:462:PRO:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:514:MET:HE3</td>
<td>1:E:514:MET:HB2</td>
<td>1.92</td>
<td>0.43</td>
</tr>
<tr>
<td>1:F:513:LEU:HA</td>
<td>1:F:513:LEU:HD23</td>
<td>1.73</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:193:MET:HG3</td>
<td>1:G:371:LYS:HB3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:78:ALA:HB2</td>
<td>1:G:93:THR:OG1</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:J:262:LEU:HD22</td>
<td>1:J:273:VAL:HG21</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:K:149:THR:H</td>
<td>1:K:159:GLY:HA3</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>1:K:286:LYS:NZ</td>
<td>1:K:304:GLU:OE1</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>1:K:78:ALA:HB2</td>
<td>1:K:93:THR:OG1</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:L:389:MET:CE</td>
<td>1:L:389:MET:C</td>
<td>2.87</td>
<td>0.43</td>
</tr>
<tr>
<td>2:S:12:VAL:HG23</td>
<td>2:T:106:ILE:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:455:VAL:HG11</td>
<td>1:A:462:PRO:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:233:MET:HB3</td>
<td>1:B:237:LEU:HD12</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:147:VAL:HG22</td>
<td>1:B:403:THR:HG22</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:147:VAL:HG22</td>
<td>1:C:403:THR:HG22</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:455:VAL:HG11</td>
<td>1:C:462:PRO:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:513:LEU:HA</td>
<td>1:C:513:LEU:HD23</td>
<td>1.73</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:78:ALA:HB2</td>
<td>1:C:93:THR:OG1</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:222:LEU:HD12</td>
<td>1:D:293:ALA:HB2</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:F:464:VAL:HB</td>
<td>1:M:467:ASN:HD21</td>
<td>1.78</td>
<td>0.43</td>
</tr>
<tr>
<td>1:H:149:THR:H</td>
<td>1:H:159:GLY:HA3</td>
<td>1.84</td>
<td>0.43</td>
</tr>
<tr>
<td>1:J:149:THR:H</td>
<td>1:J:159:GLY:HA3</td>
<td>1.84</td>
<td>0.43</td>
</tr>
<tr>
<td>1:J:197:ARG:HG2</td>
<td>1:J:277:LYS:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:J:78:ALA:HB2</td>
<td>1:J:93:THR:OG1</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:K:389:MET:CE</td>
<td>1:K:389:MET:C</td>
<td>2.87</td>
<td>0.43</td>
</tr>
<tr>
<td>1:K:444:LEU:O</td>
<td>1:K:447:MET:HB2</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:K:20:VAL:HG13</td>
<td>1:K:74:VAL:HG11</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:M:389:MET:C</td>
<td>1:M:389:MET:CE</td>
<td>2.87</td>
<td>0.43</td>
</tr>
<tr>
<td>1:N:153:ASN:O</td>
<td>1:N:154:SER:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:N:197:ARG:HG2</td>
<td>1:N:277:LYS:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:N:389:MET:C</td>
<td>1:N:389:MET:CE</td>
<td>2.87</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:247:LEU:HB3</td>
<td>1:B:273:VAL:HG12</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:247:LEU:HB3</td>
<td>1:E:273:VAL:HG12</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:147:VAL:HG22</td>
<td>1:E:403:THR:HG22</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:F:147:VAL:HG22</td>
<td>1:F:403:THR:HG22</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:H:20:VAL:HG13</td>
<td>1:H:74:VAL:HG11</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:J:158:VAL:C</td>
<td>1:J:160:LYS:N</td>
<td>2.71</td>
<td>0.43</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:K:262:LEU:HD22</td>
<td>1:K:273:VAL:HG21</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:L:286:LYS:NZ</td>
<td>1:L:304:GLU:OE1</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>1:M:44:PHE:HD1</td>
<td>1:M:44:PHE:H</td>
<td>1.55</td>
<td>0.43</td>
</tr>
<tr>
<td>1:M:455:VAL:HG11</td>
<td>1:M:462:PRO:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:M:78:ALA:HB2</td>
<td>1:M:93:THR:OG1</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>2:O:106:ILE:O</td>
<td>2:U:12:VAL:HG23</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>2:P:86:LEU:HD23</td>
<td>2:Q:68:LEU:CD2</td>
<td>2.49</td>
<td>0.43</td>
</tr>
<tr>
<td>1:F:86:GLY:HA3</td>
<td>1:F:401:HIS:CB</td>
<td>2.48</td>
<td>0.42</td>
</tr>
<tr>
<td>1:J:389:MET:CE</td>
<td>1:J:389:MET:C</td>
<td>2.87</td>
<td>0.42</td>
</tr>
<tr>
<td>1:K:198:GLY:O</td>
<td>1:K:276:VAL:HG12</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>2:R:83:PHE:HD2</td>
<td>2:R:89:LYS:HD2</td>
<td>1.83</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:193:MET:HG3</td>
<td>1:D:371:LYS:HB3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:20:VAL:HG13</td>
<td>1:D:74:VAL:HG11</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:236:VAL:O</td>
<td>1:E:240:VAL:HG23</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:222:LEU:HD12</td>
<td>1:E:293:ALA:HB2</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:193:MET:HG3</td>
<td>1:E:371:LYS:HB3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:513:LEU:HA</td>
<td>1:E:513:LEU:HD23</td>
<td>1.73</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:78:ALA:HB2</td>
<td>1:E:93:THR:OG1</td>
<td>2.18</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:477:GLY:CA</td>
<td>1:G:488:MET:SD</td>
<td>3.07</td>
<td>0.42</td>
</tr>
<tr>
<td>1:L:262:LEU:HD22</td>
<td>1:L:273:VAL:HG21</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:M:147:VAL:CG2</td>
<td>1:M:496:PRO:CG</td>
<td>2.75</td>
<td>0.42</td>
</tr>
<tr>
<td>1:N:262:LEU:HD22</td>
<td>1:N:273:VAL:HG21</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>2:O:83:PHE:HD2</td>
<td>2:O:89:LYS:HD2</td>
<td>1.83</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:259:LEU:O</td>
<td>1:C:263:VAL:HG23</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:405:ALA:HB1</td>
<td>1:C:498:LYS:HD3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:259:LEU:O</td>
<td>1:D:263:VAL:HG23</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:259:LEU:O</td>
<td>1:E:263:VAL:HG23</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:F:20:VAL:HG13</td>
<td>1:F:74:VAL:HG11</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:F:78:ALA:HB2</td>
<td>1:F:93:THR:OG1</td>
<td>2.18</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:146:GLN:HB2</td>
<td>1:G:494:LEU:HD11</td>
<td>1.95</td>
<td>0.42</td>
</tr>
<tr>
<td>1:H:389:MET:C</td>
<td>1:H:389:MET:CE</td>
<td>2.87</td>
<td>0.42</td>
</tr>
<tr>
<td>1:H:78:ALA:HB2</td>
<td>1:H:93:THR:OG1</td>
<td>2.18</td>
<td>0.42</td>
</tr>
<tr>
<td>1:I:198:GLY:O</td>
<td>1:I:276:VAL:HG12</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:I:197:ARG:HG2</td>
<td>1:I:277:LYS:O</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:I:389:MET:CE</td>
<td>1:I:389:MET:C</td>
<td>2.87</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:463:SER:CB</td>
<td>1:J:464:VAL:HG21</td>
<td>2.27</td>
<td>0.42</td>
</tr>
<tr>
<td>1:K:389:MET:HE1</td>
<td>1:K:393:LYS:HB2</td>
<td>2.02</td>
<td>0.42</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:L:149:THR:H</td>
<td>1:L:159:GLY:HA3</td>
<td>1.84</td>
<td>0.42</td>
</tr>
<tr>
<td>1:K:118:ARG:HH22</td>
<td>1:L:34:LYS:HE2</td>
<td>1.85</td>
<td>0.42</td>
</tr>
<tr>
<td>1:M:197:ARG:HG2</td>
<td>1:M:277:LYS:O</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:247:LEU:HB3</td>
<td>1:A:273:VAL:HG12</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:193:MET:HG3</td>
<td>1:A:371:LYS:HB3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:464:VAL:HG23</td>
<td>1:H:464:VAL:HA</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:455:VAL:HG11</td>
<td>1:B:462:PRO:HA</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:222:LEU:HD12</td>
<td>1:C:293:ALA:HB2</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:405:ALA:HB1</td>
<td>1:D:498:LYS:HD3</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:86:GLY:HA3</td>
<td>1:D:401:HIS:CB</td>
<td>2.48</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:421:ARG:HD3</td>
<td>1:E:421:ARG:HA</td>
<td>1.78</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:238:GLU:HA</td>
<td>1:G:238:GLU:OE2</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:I:103:GLY:HA3</td>
<td>1:I:515:ILE:HG21</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:J:176:THR:HG21</td>
<td>1:J:333:ILE:CD1</td>
<td>2.48</td>
<td>0.42</td>
</tr>
<tr>
<td>1:J:262:LEU:O</td>
<td>1:J:266:THR:HG23</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:L:136:VAL:C</td>
<td>1:L:137:PRO:CB</td>
<td>2.79</td>
<td>0.42</td>
</tr>
<tr>
<td>1:L:78:ALA:HB2</td>
<td>1:L:93:THR:OG1</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:N:136:VAL:C</td>
<td>1:N:137:PRO:CD</td>
<td>2.87</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:222:LEU:HD12</td>
<td>1:B:293:ALA:HB2</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:86:GLY:HA3</td>
<td>1:E:401:HIS:CB</td>
<td>2.48</td>
<td>0.42</td>
</tr>
<tr>
<td>1:F:146:GLN:HB2</td>
<td>1:F:494:LEU:HD11</td>
<td>1.95</td>
<td>0.42</td>
</tr>
<tr>
<td>1:J:198:GLY:O</td>
<td>1:J:276:VAL:HG12</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:K:197:ARG:HG2</td>
<td>1:H:277:LYS:O</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:K:103:GLY:HA3</td>
<td>1:K:515:ILE:HG21</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:M:158:VAL:C</td>
<td>1:M:160:LYS:N</td>
<td>2.71</td>
<td>0.42</td>
</tr>
<tr>
<td>1:M:198:GLY:O</td>
<td>1:M:276:VAL:HG12</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:J:103:GLY:HA3</td>
<td>1:J:515:ILE:HG21</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:M:198:GLY:O</td>
<td>1:M:276:VAL:HG12</td>
<td>2.19</td>
<td>0.42</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:N:477:GLY:CA</td>
<td>1:N:488:MET:SD</td>
<td>3.07</td>
<td>0.42</td>
</tr>
<tr>
<td>2:P:12:VAL:HG23</td>
<td>2:Q:106:ILE:O</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:27:VAL:HG12</td>
<td>1:B:90:THR:HG23</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:174:VAL:CG2</td>
<td>1:C:367:GLU:HA</td>
<td>2.40</td>
<td>0.42</td>
</tr>
<tr>
<td>1:F:405:ALA:HB1</td>
<td>1:F:498:LYS:HD3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:236:VAL:O</td>
<td>1:G:240:VAL:HG23</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:259:LEU:O</td>
<td>1:G:263:VAL:HG23</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:H:262:LEU:HD22</td>
<td>1:H:273:VAL:HG21</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:H:103:GLY:HA3</td>
<td>1:H:515:ILE:HG21</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:I:262:LEU:HD22</td>
<td>1:I:273:VAL:HG21</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:I:118:ARG:HH22</td>
<td>1:I:134:LYS:HE2</td>
<td>1.85</td>
<td>0.42</td>
</tr>
<tr>
<td>1:K:262:LEU:O</td>
<td>1:K:266:THR:HG23</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:L:149:THR:HG21</td>
<td>1:L:156:GLU:HA</td>
<td>1.99</td>
<td>0.42</td>
</tr>
<tr>
<td>1:L:197:ARG:HG2</td>
<td>1:L:277:LYS:O</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:245:LYS:HA</td>
<td>1:B:246:PRO:HD3</td>
<td>1.94</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:174:VAL:CG2</td>
<td>1:B:367:GLU:HA</td>
<td>2.40</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:146:GLN:HE21</td>
<td>1:C:146:GLN:HB2</td>
<td>1.66</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:302:SER:HB3</td>
<td>1:G:305:ILE:HG12</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:405:ALA:HB1</td>
<td>1:G:498:LYS:HD3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:I:262:LEU:O</td>
<td>1:I:266:THR:HG23</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:I:20:VAL:HG13</td>
<td>1:I:74:VAL:HG11</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:J:385:THR:HG23</td>
<td>1:J:388:GLU:CB</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>1:M:103:GLY:HA3</td>
<td>1:M:515:ILE:HG21</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>2:Q:90:GLN:H</td>
<td>2:Q:90:GLN:HG3</td>
<td>1.72</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:238:GLU:HA</td>
<td>1:A:238:GLU:OE2</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:302:SER:HB3</td>
<td>1:A:305:ILE:HG12</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:27:VAL:HG12</td>
<td>1:A:90:THR:HG23</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:405:ALA:HB1</td>
<td>1:B:498:LYS:HD3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:477:GLY:CA</td>
<td>1:C:488:MET:SD</td>
<td>3.07</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:103:GLY:HA3</td>
<td>1:C:515:ILE:HG21</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:27:VAL:HG12</td>
<td>1:D:90:THR:HG23</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:F:222:LEU:HD12</td>
<td>1:F:293:ALa:HB2</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:247:LEU:HB3</td>
<td>1:G:273:VAL:HG12</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:461:GLU:OE1</td>
<td>1:N:463:SER:HB3</td>
<td>2.13</td>
<td>0.42</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:I:149:THR:H</td>
<td>1:I:159:GLY:HA3</td>
<td>1.84</td>
<td>0.42</td>
</tr>
<tr>
<td>1:J:27:VAL:HG12</td>
<td>1:J:90:THR:HG23</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:K:27:VAL:HG12</td>
<td>1:K:90:THR:HG23</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:M:118:ARG:HH22</td>
<td>1:N:34:LYS:HE2</td>
<td>1.85</td>
<td>0.42</td>
</tr>
<tr>
<td>1:M:262:LEU:HD22</td>
<td>1:M:273:VAL:HG21</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:N:389:MET:HE1</td>
<td>1:N:393:LYS:HB2</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>2:O:12:VAL:HG23</td>
<td>2:P:106:ILE:O</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:236:VAL:O</td>
<td>1:A:240:VAL:HG23</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:20:VAL:HG13</td>
<td>1:A:74:VAL:HG11</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:86:GLY:HA3</td>
<td>1:C:401:HIS:CB</td>
<td>2.48</td>
<td>0.42</td>
</tr>
<tr>
<td>1:F:247:LEU:HB3</td>
<td>1:F:273:VAL:HG12</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:J:137:PRO:O</td>
<td>1:J:410:GLY:CA</td>
<td>2.68</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:463:SER:HG</td>
<td>1:J:464:VAL:HG23</td>
<td>1.75</td>
<td>0.42</td>
</tr>
<tr>
<td>1:K:477:GLY:CA</td>
<td>1:K:488:MET:SD</td>
<td>3.07</td>
<td>0.42</td>
</tr>
<tr>
<td>1:L:198:GLY:O</td>
<td>1:L:276:VAL:HG12</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:464:VAL:HG23</td>
<td>1:N:464:VAL:HA</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:405:ALA:HA</td>
<td>1:A:498:LYS:HD3</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:103:GLY:HA3</td>
<td>1:B:515:ILE:HG21</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:302:SER:HB3</td>
<td>1:C:305:ILE:HG12</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:370:ALA:HB1</td>
<td>1:C:375:GLY:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:464:VAL:HG23</td>
<td>1:J:464:VAL:HA</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:146:GLN:HE21</td>
<td>1:E:146:GLN:HB2</td>
<td>1.66</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:370:ALA:HB1</td>
<td>1:E:375:GLY:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:F:103:GLY:HA3</td>
<td>1:F:515:ILE:HG21</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:370:ALA:HB1</td>
<td>1:G:375:GLY:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:463:SER:CB</td>
<td>1:K:464:VAL:HG21</td>
<td>2.27</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:464:VAL:HG23</td>
<td>1:L:464:VAL:HA</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:389:MET:C</td>
<td>1:M:389:MET:HE1</td>
<td>2.41</td>
<td>0.41</td>
</tr>
<tr>
<td>1:N:389:MET:HE1</td>
<td>1:N:389:MET:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:222:LEU:HD12</td>
<td>1:A:293:ALA:HB2</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:405:ALA:HB1</td>
<td>1:A:498:LYS:HD3</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:405:ALA:HA</td>
<td>1:B:498:LYS:HD3</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:27:VAL:HG12</td>
<td>1:C:90:THR:HG23</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:405:ALA:HA</td>
<td>1:G:498:LYS:HD3</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:H:198:GLY:O</td>
<td>1:H:276:VAL:HG12</td>
<td>2.19</td>
<td>0.41</td>
</tr>
<tr>
<td>1:I:385:THR:HG23</td>
<td>1:I:388:GLU:CB</td>
<td>2.49</td>
<td>0.41</td>
</tr>
<tr>
<td>1:J:149:THR:N</td>
<td>1:J:159:GLY:HA3</td>
<td>2.35</td>
<td>0.41</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:L:336:VAL:O</td>
<td>1:L:336:VAL:HG12</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:266:THR:HG22</td>
<td>1:M:273:VAL:H</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:385:THR:HG23</td>
<td>1:M:388:GLU:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>1:N:103:GLY:HA3</td>
<td>1:N:515:ILE:HG21</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:N:137:PRO:O</td>
<td>1:N:410:GLY:CA</td>
<td>2.68</td>
<td>0.41</td>
</tr>
<tr>
<td>1:N:149:THR:N</td>
<td>1:N:159:GLY:HA3</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:477:GLY:CA</td>
<td>1:B:488:MET:SD</td>
<td>3.07</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:225:LYS:HG3</td>
<td>1:C:225:LYS:H</td>
<td>1.66</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:236:VAL:O</td>
<td>1:D:240:VAL:HG23</td>
<td>2.19</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:421:ARG:HA</td>
<td>1:D:421:ARG:HD3</td>
<td>1.78</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:464:VAL:HG23</td>
<td>1:K:464:VAL:HA</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:477:GLY:CA</td>
<td>1:D:488:MET:SD</td>
<td>3.07</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:225:LYS:HG3</td>
<td>1:E:225:LYS:H</td>
<td>1.66</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:27:VAL:HG12</td>
<td>1:E:90:THR:HG23</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:477:GLY:CA</td>
<td>1:E:488:MET:SD</td>
<td>3.07</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:146:GLN:HB2</td>
<td>1:E:494:LEU:HD11</td>
<td>1.95</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:20:VAL:HG13</td>
<td>1:E:74:VAL:HG11</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:421:ARG:HA</td>
<td>1:G:421:ARG:HD3</td>
<td>1.78</td>
<td>0.41</td>
</tr>
<tr>
<td>1:H:262:LEU:O</td>
<td>1:H:266:THR:HG23</td>
<td>2.19</td>
<td>0.41</td>
</tr>
<tr>
<td>1:K:389:MET:O</td>
<td>1:K:389:MET:HE1</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:L:262:LEU:O</td>
<td>1:L:266:THR:HG23</td>
<td>2.19</td>
<td>0.41</td>
</tr>
<tr>
<td>1:L:27:VAL:HG12</td>
<td>1:L:90:THR:HG23</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:N:266:THR:HG22</td>
<td>1:N:273:VAL:H</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>2:R:81:HIS:CG</td>
<td>2:R:94:ILE:HG21</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:302:SER:HB3</td>
<td>1:B:305:ILE:HG12</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:405:ALA:HA</td>
<td>1:C:498:LYS:HD3</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:103:GLY:HA3</td>
<td>1:D:515:ILE:HG21</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:38:VAL:HG22</td>
<td>1:E:519:CYS:HB3</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:F:302:SER:HB3</td>
<td>1:F:305:ILE:HG12</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:H:385:THR:HG23</td>
<td>1:H:388:GLU:CB</td>
<td>2.49</td>
<td>0.41</td>
</tr>
<tr>
<td>1:I:158:VAL:C</td>
<td>1:I:160:LYS:N</td>
<td>2.71</td>
<td>0.41</td>
</tr>
<tr>
<td>1:I:149:THR:N</td>
<td>1:I:159:GLY:HA3</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>1:I:336:VAL:O</td>
<td>1:I:336:VAL:HG12</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:463:SER:CB</td>
<td>1:B:464:VAL:HG21</td>
<td>2.27</td>
<td>0.41</td>
</tr>
<tr>
<td>1:I:477:GLY:CA</td>
<td>1:I:488:MET:SD</td>
<td>3.07</td>
<td>0.41</td>
</tr>
<tr>
<td>1:I:147:VAL:CG2</td>
<td>1:I:496:PRO:CG</td>
<td>2.75</td>
<td>0.41</td>
</tr>
<tr>
<td>1:K:336:VAL:HG12</td>
<td>1:K:336:VAL:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:J:118:ARG:HH22</td>
<td>1:K:34:LYS:HE2</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>1:L:266:THR:HG22</td>
<td>1:L:273:VAL:H</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>1:N:262:LEU:O</td>
<td>1:N:266:THR:HG23</td>
<td>2.19</td>
<td>0.41</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:P:90:GLN:HG3</td>
<td>2:P:90:GLN:H</td>
<td>1.73</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:512:GLY:O</td>
<td>1:B:515:ILE:HG13</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:38:VAL:HG22</td>
<td>1:D:519:CYS:HB3</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:38:VAL:HG22</td>
<td>1:C:519:CYS:HB3</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:302:SER:HB3</td>
<td>1:D:305:ILE:HG12</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:F:405:ALA:HA</td>
<td>1:F:498:LYS:HD3</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:F:464:VAL:HG23</td>
<td>1:M:464:VAL:HA</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:103:GLY:HA3</td>
<td>1:G:515:ILE:HG21</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:H:34:LYS:HE2</td>
<td>1:N:118:ARG:HH22</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>1:I:150:ILE:HG21</td>
<td>1:I:494:LEU:O</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:L:118:ARG:HH22</td>
<td>1:M:34:LYS:HE2</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:262:LEU:O</td>
<td>1:M:266:THR:HG23</td>
<td>2.19</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:103:GLY:HA3</td>
<td>1:A:515:ILE:HG21</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:236:VAL:O</td>
<td>1:B:240:VAL:HG23</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:259:LEU:O</td>
<td>1:B:263:VAL:HG23</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:236:VAL:O</td>
<td>1:C:240:VAL:HG23</td>
<td>2.19</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:405:ALA:HA</td>
<td>1:D:498:LYS:HD3</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:461:GLU:HA</td>
<td>1:E:462:PRO:HD3</td>
<td>1.93</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:405:ALA:HB1</td>
<td>1:E:498:LYS:HD3</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:512:GLY:O</td>
<td>1:E:515:ILE:HG13</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:H:166:MET:HE2</td>
<td>1:H:171:LYS:CA</td>
<td>2.40</td>
<td>0.41</td>
</tr>
<tr>
<td>1:J:136:VAL:C</td>
<td>1:J:137:PRO:CD</td>
<td>2.87</td>
<td>0.41</td>
</tr>
<tr>
<td>1:K:149:THR:N</td>
<td>1:K:159:GLY:HA3</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:146:GLN:HB2</td>
<td>1:A:494:LEU:HD11</td>
<td>1.95</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:238:GLU:HA</td>
<td>1:B:238:GLU:OE2</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:238:GLU:OE2</td>
<td>1:E:238:GLU:HA</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:F:197:ARG:CD</td>
<td>1:F:277:LYS:HB2</td>
<td>2.23</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:222:LEU:HD12</td>
<td>1:G:293:ALA:HB2</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:27:VAL:HG12</td>
<td>1:G:90:THR:HG23</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:H:266:THR:HG22</td>
<td>1:H:273:VAL:H</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>1:H:27:VAL:HG12</td>
<td>1:H:90:THR:HG23</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:I:118:ARG:HH22</td>
<td>1:I:34:LYS:HE2</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>1:I:247:LEU:HB3</td>
<td>1:I:273:VAL:HG12</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:J:137:PRO:O</td>
<td>1:J:410:GLY:CA</td>
<td>2.68</td>
<td>0.41</td>
</tr>
<tr>
<td>1:J:247:LEU:HB3</td>
<td>1:J:273:VAL:HG12</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:K:514:MET:HB2</td>
<td>1:K:514:MET:HE3</td>
<td>1.95</td>
<td>0.41</td>
</tr>
<tr>
<td>1:L:385:THR:HG23</td>
<td>1:L:388:GLU:CB</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:L:401:HIS:O</td>
<td>1:L:402:ALA:C</td>
<td>2.59</td>
<td>0.41</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:L:477:GLY:CA</td>
<td>1:L:488:MET:SD</td>
<td>3.07</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:173:GLY:HA2</td>
<td>1:B:370:ALA:CB</td>
<td>2.45</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:173:GLY:HA2</td>
<td>1:C:370:ALA:CB</td>
<td>2.45</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:302:SER:HB3</td>
<td>1:E:305:ILE:HG12</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:38:VAL:HG22</td>
<td>1:F:519:CYS:HB3</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:F:370:ALA:HB1</td>
<td>1:F:375:GLY:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:224:ASP:CB</td>
<td>1:G:302:SER:HA</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:J:513:LEU:HD23</td>
<td>1:J:513:LEU:HA</td>
<td>1.72</td>
<td>0.41</td>
</tr>
<tr>
<td>1:K:137:PRO:O</td>
<td>1:K:410:GLY:CA</td>
<td>2.68</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:149:THR:HG21</td>
<td>1:M:156:GLU:HA</td>
<td>1.99</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:512:GLY:O</td>
<td>1:M:515:ILE:HG13</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>2:O:81:HIS:CG</td>
<td>2:O:94:ILE:HG21</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>2:P:81:HIS:CG</td>
<td>2:P:94:ILE:HG21</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>2:S:81:HIS:CG</td>
<td>2:S:94:ILE:HG21</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>2:T:81:HIS:CG</td>
<td>2:T:94:ILE:HG21</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:259:LEU:O</td>
<td>1:A:263:VAL:HG23</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:38:VAL:HG22</td>
<td>1:B:519:CYS:HB3</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:512:GLY:O</td>
<td>1:C:515:ILE:HG13</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:405:ALA:HA</td>
<td>1:E:498:LYS:HD3</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:103:GLY:HA3</td>
<td>1:E:515:ILE:HG21</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:I:389:MET:HE1</td>
<td>1:I:393:LYS:HB2</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:J:150:ILE:HG21</td>
<td>1:J:494:LEU:O</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:J:512:GLY:O</td>
<td>1:J:515:ILE:HG13</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:K:285:ARG:HA</td>
<td>1:K:288:MET:HB2</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:K:512:GLY:O</td>
<td>1:K:515:ILE:HG13</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:L:137:PRO:O</td>
<td>1:L:410:GLY:CA</td>
<td>2.68</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:187:LEU:HD23</td>
<td>1:M:188:ASP:N</td>
<td>2.36</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:247:LEU:HB3</td>
<td>1:M:273:VAL:HG12</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:385:THR:HG23</td>
<td>1:M:388:GLU:CB</td>
<td>2.49</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:401:HIS:O</td>
<td>1:M:402:ALA:C</td>
<td>2.59</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:27:VAL:HG12</td>
<td>1:M:90:THR:HG23</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:N:285:ARG:HA</td>
<td>1:N:288:MET:HB2</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:N:385:THR:HG23</td>
<td>1:N:388:GLU:CB</td>
<td>2.49</td>
<td>0.41</td>
</tr>
<tr>
<td>1:N:385:THR:HG23</td>
<td>1:N:388:GLU:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>1:N:512:GLY:O</td>
<td>1:N:515:ILE:HG13</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:351:GLN:O</td>
<td>1:A:354:GLU:HB2</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:224:ASP:CB</td>
<td>1:C:302:SER:HA</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:174:VAL:CG2</td>
<td>1:D:367:GLU:HA</td>
<td>2.40</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:370:ALA:HB1</td>
<td>1:D:375:GLY:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:F:27:VAL:HG12</td>
<td>1:F:90:THR:HG23</td>
<td>2.02</td>
<td>0.41</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:J:285:ARG:HA</td>
<td>1:J:288:MET:HB2</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:J:385:THR:HG23</td>
<td>1:J:388:GLU:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>1:K:176:THR:HG21</td>
<td>1:K:333:ILE:CD1</td>
<td>2.48</td>
<td>0.41</td>
</tr>
<tr>
<td>1:L:142:LYS:O</td>
<td>1:L:146:GLN:HB2</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:L:512:GLY:O</td>
<td>1:L:515:ILE:HG13</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:137:PRO:O</td>
<td>1:M:410:GLY:CA</td>
<td>2.68</td>
<td>0.41</td>
</tr>
<tr>
<td>1:M:502:SER:O</td>
<td>1:M:503:ALA:C</td>
<td>2.60</td>
<td>0.41</td>
</tr>
<tr>
<td>2:Q:81:HIS:CG</td>
<td>2:Q:94:ILE:HG21</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:512:GLY:O</td>
<td>1:A:515:ILE:HG13</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:421:ARG:HA</td>
<td>1:B:421:ARG:HD3</td>
<td>1.78</td>
<td>0.41</td>
</tr>
<tr>
<td>1:F:512:GLY:O</td>
<td>1:F:515:ILE:HG13</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:H:158:VAL:C</td>
<td>1:H:160:LYS:N</td>
<td>2.71</td>
<td>0.41</td>
</tr>
<tr>
<td>1:H:172:GLU:OE1</td>
<td>1:H:172:GLU:N</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>1:H:137:PRO:O</td>
<td>1:H:410:GLY:CA</td>
<td>2.68</td>
<td>0.41</td>
</tr>
<tr>
<td>1:J:142:LYS:O</td>
<td>1:J:146:GLN:HB2</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:K:187:LEU:HD23</td>
<td>1:K:188:ASP:N</td>
<td>2.36</td>
<td>0.41</td>
</tr>
<tr>
<td>1:K:3:ALA:CB</td>
<td>1:L:63:GLU:CB</td>
<td>2.94</td>
<td>0.41</td>
</tr>
<tr>
<td>1:L:389:MET:HE1</td>
<td>1:L:389:MET:O</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:463:SER:CB</td>
<td>1:L:464:VAL:HG21</td>
<td>2.27</td>
<td>0.41</td>
</tr>
<tr>
<td>1:N:187:LEU:HD23</td>
<td>1:N:188:ASP:N</td>
<td>2.36</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:351:GLN:O</td>
<td>1:D:354:GLU:HB2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:E:351:GLN:O</td>
<td>1:E:354:GLU:HB2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:1385:THR:HG23</td>
<td>1:I:388:GLU:N</td>
<td>2.35</td>
<td>0.40</td>
</tr>
<tr>
<td>1:13:ALA:CB</td>
<td>1:J:63:GLU:CB</td>
<td>2.94</td>
<td>0.40</td>
</tr>
<tr>
<td>1:K:172:GLU:N</td>
<td>1:K:172:GLU:OE1</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>1:K:247:LEU:HB3</td>
<td>1:K:273:VAL:HG12</td>
<td>2.02</td>
<td>0.40</td>
</tr>
<tr>
<td>1:L:187:LEU:HD23</td>
<td>1:L:188:ASP:N</td>
<td>2.36</td>
<td>0.40</td>
</tr>
<tr>
<td>1:M:142:LYS:O</td>
<td>1:M:146:GLN:HB2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:N:27:VAL:HG12</td>
<td>1:N:90:THR:HG23</td>
<td>2.02</td>
<td>0.40</td>
</tr>
<tr>
<td>1:B:146:GLN:HB2</td>
<td>1:B:494:LEU:HD11</td>
<td>1.95</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:351:GLN:O</td>
<td>1:C:354:GLU:HB2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:K:385:THR:HG23</td>
<td>1:K:388:GLU:N</td>
<td>2.35</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:165:ALA:O</td>
<td>1:C:169:VAL:HG22</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:D:146:GLN:HB2</td>
<td>1:D:494:LEU:HD11</td>
<td>1.95</td>
<td>0.40</td>
</tr>
<tr>
<td>1:E:165:ALA:O</td>
<td>1:E:169:VAL:HG22</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:165:ALA:O</td>
<td>1:G:169:VAL:HG22</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:351:GLN:O</td>
<td>1:G:354:GLU:HB2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:512:GLY:O</td>
<td>1:G:515:ILE:HG13</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:H:193:MET:HG2</td>
<td>1:H:194:GLN:N</td>
<td>2.36</td>
<td>0.40</td>
</tr>
<tr>
<td>1:H:285:ARG:HA</td>
<td>1:H:288:MET:HB2</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>1:I:142:LYS:O</td>
<td>1:I:146:GLN:HB2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:I:266:THR:HG22</td>
<td>1:I:273:VAL:H</td>
<td>1.85</td>
<td>0.40</td>
</tr>
<tr>
<td>1:K:266:THR:HG22</td>
<td>1:K:273:VAL:H</td>
<td>1.85</td>
<td>0.40</td>
</tr>
<tr>
<td>1:M:158:VAL:O</td>
<td>1:M:159:GLY:C</td>
<td>2.60</td>
<td>0.40</td>
</tr>
<tr>
<td>1:M:477:GLY:CA</td>
<td>1:M:488:MET:SD</td>
<td>3.07</td>
<td>0.40</td>
</tr>
<tr>
<td>1:N:158:VAL:O</td>
<td>1:N:159:GLY:C</td>
<td>2.60</td>
<td>0.40</td>
</tr>
<tr>
<td>1:N:247:LEU:HB3</td>
<td>1:N:273:VAL:HG12</td>
<td>2.02</td>
<td>0.40</td>
</tr>
<tr>
<td>2:R:21:GLU:HA</td>
<td>2:R:22:PRO:HD3</td>
<td>1.88</td>
<td>0.40</td>
</tr>
<tr>
<td>2:R:90:GLN:H</td>
<td>2:R:90:GLN:HG3</td>
<td>1.73</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:246:PRO:HB3</td>
<td>1:G:272:LYS:HB3</td>
<td>2.04</td>
<td>0.40</td>
</tr>
<tr>
<td>1:F:38:VAL:HG22</td>
<td>1:G:519:CYC:HB3</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>1:H:247:LEU:HB3</td>
<td>1:H:273:VAL:HG12</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>1:I:172:GLU:OE1</td>
<td>1:I:172:GLU:N</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>1:I:193:MET:HG2</td>
<td>1:I:194:GLN:N</td>
<td>2.36</td>
<td>0.40</td>
</tr>
<tr>
<td>1:I:512:GLY:O</td>
<td>1:I:515:ILE:HG13</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:J:178:GLU:HG2</td>
<td>1:J:322:ARG:CZ</td>
<td>2.52</td>
<td>0.40</td>
</tr>
<tr>
<td>1:L:247:LEU:HB3</td>
<td>1:L:273:VAL:HG12</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>1:M:165:ALA:O</td>
<td>1:M:168:LYS:N</td>
<td>2.38</td>
<td>0.40</td>
</tr>
<tr>
<td>1:N:142:LYS:O</td>
<td>1:N:146:GLN:HB2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:N:193:MET:HG2</td>
<td>1:N:194:GLN:N</td>
<td>2.36</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:519:CYC:HB3</td>
<td>1:G:38:VAL:HG22</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>1:B:165:ALA:O</td>
<td>1:B:169:VAL:HG22</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:146:GLN:HB2</td>
<td>1:C:494:LEU:HD11</td>
<td>1.95</td>
<td>0.40</td>
</tr>
<tr>
<td>1:E:224:ASP:CB</td>
<td>1:E:302:SER:HA</td>
<td>2.51</td>
<td>0.40</td>
</tr>
<tr>
<td>1:F:246:PRO:HB3</td>
<td>1:F:272:LYS:HB3</td>
<td>2.04</td>
<td>0.40</td>
</tr>
<tr>
<td>1:K:158:VAL:O</td>
<td>1:K:159:GLY:C</td>
<td>2.60</td>
<td>0.40</td>
</tr>
<tr>
<td>1:K:385:THR:HG23</td>
<td>1:K:388:GLU:CB</td>
<td>2.49</td>
<td>0.40</td>
</tr>
<tr>
<td>1:M:172:GLU:OE1</td>
<td>1:M:172:GLU:OE1</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>1:M:285:ARG:HA</td>
<td>1:M:288:MET:HB2</td>
<td>2.03</td>
<td>0.40</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:N:166:MET:HE2</td>
<td>1:N:171:LYS:CA</td>
<td>2.40</td>
<td>0.40</td>
</tr>
</tbody>
</table>

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 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 EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Favoured</th>
<th>Allowed</th>
<th>Outliers</th>
<th>Percentiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>520/547 (95%)</td>
<td>483 (93%)</td>
<td>31 (6%)</td>
<td>6 (1%)</td>
<td>14 56</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>520/547 (95%)</td>
<td>483 (93%)</td>
<td>31 (6%)</td>
<td>6 (1%)</td>
<td>14 56</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>520/547 (95%)</td>
<td>483 (93%)</td>
<td>31 (6%)</td>
<td>6 (1%)</td>
<td>14 56</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>520/547 (95%)</td>
<td>483 (93%)</td>
<td>31 (6%)</td>
<td>6 (1%)</td>
<td>14 56</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>520/547 (95%)</td>
<td>483 (93%)</td>
<td>31 (6%)</td>
<td>6 (1%)</td>
<td>14 56</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>520/547 (95%)</td>
<td>483 (93%)</td>
<td>31 (6%)</td>
<td>6 (1%)</td>
<td>14 56</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>520/547 (95%)</td>
<td>483 (93%)</td>
<td>31 (6%)</td>
<td>6 (1%)</td>
<td>14 56</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>505/547 (92%)</td>
<td>447 (88%)</td>
<td>45 (9%)</td>
<td>13 (3%)</td>
<td>6 38</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>505/547 (92%)</td>
<td>447 (88%)</td>
<td>45 (9%)</td>
<td>13 (3%)</td>
<td>6 38</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>505/547 (92%)</td>
<td>447 (88%)</td>
<td>45 (9%)</td>
<td>13 (3%)</td>
<td>6 38</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>505/547 (92%)</td>
<td>447 (88%)</td>
<td>45 (9%)</td>
<td>13 (3%)</td>
<td>6 38</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>505/547 (92%)</td>
<td>447 (88%)</td>
<td>45 (9%)</td>
<td>13 (3%)</td>
<td>6 38</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>505/547 (92%)</td>
<td>447 (88%)</td>
<td>45 (9%)</td>
<td>13 (3%)</td>
<td>6 38</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>505/547 (92%)</td>
<td>447 (88%)</td>
<td>45 (9%)</td>
<td>13 (3%)</td>
<td>6 38</td>
</tr>
<tr>
<td>2</td>
<td>O</td>
<td>79/111 (71%)</td>
<td>76 (96%)</td>
<td>3 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>2</td>
<td>P</td>
<td>79/111 (71%)</td>
<td>76 (96%)</td>
<td>3 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>79/111 (71%)</td>
<td>76 (96%)</td>
<td>3 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>79/111 (71%)</td>
<td>76 (96%)</td>
<td>3 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Favoured</th>
<th>Allowed</th>
<th>Outliers</th>
<th>Percentiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>S</td>
<td>79/111 (71%)</td>
<td>76 (96%)</td>
<td>3 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>79/111 (71%)</td>
<td>76 (96%)</td>
<td>3 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>79/111 (71%)</td>
<td>76 (96%)</td>
<td>3 (4%)</td>
<td>0</td>
<td>100 100</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>7728/8435 (92%)</td>
<td>7042 (91%)</td>
<td>553 (7%)</td>
<td>133 (2%)</td>
<td>14 49</td>
</tr>
</tbody>
</table>

All (133) Ramachandran outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>137</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>337</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>137</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>337</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>137</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>337</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>137</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>337</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>137</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>337</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>137</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>337</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>137</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>337</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>401</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>401</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>401</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>401</td>
<td>HIS</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>L</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>401</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>401</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>401</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>270</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>270</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>270</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>270</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>270</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>270</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>270</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>205</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>205</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>205</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>205</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>205</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>205</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>205</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>155</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>155</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>155</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>155</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>155</td>
<td>ASP</td>
</tr>
</tbody>
</table>

Continued on next page...
### Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M</td>
<td>155</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>155</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>160</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>160</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>160</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>165</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>160</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>165</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>160</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>165</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>165</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>165</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>160</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>165</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>160</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>165</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>305</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>305</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>305</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>305</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>305</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>305</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>305</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>256</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>256</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>387</td>
<td>VAL</td>
</tr>
</tbody>
</table>

*Continued on next page...*
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>J</td>
<td>256</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>256</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>256</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>256</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>256</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>374</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>387</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>387</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>387</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>387</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>387</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>387</td>
<td>VAL</td>
</tr>
</tbody>
</table>

5.3.2 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 EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Rotameric</th>
<th>Outliers</th>
<th>Percentiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>404/414 (98%)</td>
<td>352 (87%)</td>
<td>52 (13%)</td>
<td>5  22</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>404/414 (98%)</td>
<td>352 (87%)</td>
<td>52 (13%)</td>
<td>5  22</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>404/414 (98%)</td>
<td>352 (87%)</td>
<td>52 (13%)</td>
<td>5  22</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>404/414 (98%)</td>
<td>352 (87%)</td>
<td>52 (13%)</td>
<td>5  22</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>404/414 (98%)</td>
<td>352 (87%)</td>
<td>52 (13%)</td>
<td>5  22</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>404/414 (98%)</td>
<td>352 (87%)</td>
<td>52 (13%)</td>
<td>5  22</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>404/414 (98%)</td>
<td>352 (87%)</td>
<td>52 (13%)</td>
<td>5  22</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>396/414 (96%)</td>
<td>347 (88%)</td>
<td>49 (12%)</td>
<td>5  23</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>396/414 (96%)</td>
<td>347 (88%)</td>
<td>49 (12%)</td>
<td>5  23</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>396/414 (96%)</td>
<td>347 (88%)</td>
<td>49 (12%)</td>
<td>5  23</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>396/414 (96%)</td>
<td>347 (88%)</td>
<td>49 (12%)</td>
<td>5  23</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Rotameric</th>
<th>Outliers</th>
<th>Percentiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>L</td>
<td>396/414 (96%)</td>
<td>347 (88%)</td>
<td>49 (12%)</td>
<td>5  23</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>396/414 (96%)</td>
<td>347 (88%)</td>
<td>49 (12%)</td>
<td>5  23</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>396/414 (96%)</td>
<td>347 (88%)</td>
<td>49 (12%)</td>
<td>5  23</td>
</tr>
<tr>
<td>2</td>
<td>O</td>
<td>73/96 (76%)</td>
<td>71 (97%)</td>
<td>2 (3%)</td>
<td>48 72</td>
</tr>
<tr>
<td>2</td>
<td>P</td>
<td>73/96 (76%)</td>
<td>71 (97%)</td>
<td>2 (3%)</td>
<td>48 72</td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>73/96 (76%)</td>
<td>71 (97%)</td>
<td>2 (3%)</td>
<td>48 72</td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>73/96 (76%)</td>
<td>71 (97%)</td>
<td>2 (3%)</td>
<td>48 72</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>73/96 (76%)</td>
<td>71 (97%)</td>
<td>2 (3%)</td>
<td>48 72</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>73/96 (76%)</td>
<td>71 (97%)</td>
<td>2 (3%)</td>
<td>48 72</td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>73/96 (76%)</td>
<td>71 (97%)</td>
<td>2 (3%)</td>
<td>48 72</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>6111/6468 (94%)</td>
<td>5390 (88%)</td>
<td>721 (12%)</td>
<td>10 25</td>
</tr>
</tbody>
</table>

All (721) residues with a non-rotameric sidechain are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>138</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>147</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>168</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>176</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>177</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>178</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>183</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>184</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>197</td>
<td>ARG</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>225</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>229</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>237</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>281</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>322</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>345</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>350</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>366</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>391</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>400</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>452</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>132</td>
<td>LYS</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B</td>
<td>138</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>147</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>168</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>176</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>177</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>178</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>183</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>184</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>225</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>229</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>237</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>281</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>322</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>345</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>350</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>366</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>391</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>400</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>452</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>8</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>23</td>
<td>LEU</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>138</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>147</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>168</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>176</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>177</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>178</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>183</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>184</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>225</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>229</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>237</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>281</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>322</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>345</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>350</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>366</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>391</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>400</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>445</td>
<td>ARG</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>452</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>138</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>147</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>168</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>176</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>177</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>178</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>183</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>184</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>225</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>229</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>237</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>281</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>322</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>345</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>350</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>366</td>
<td>GLN</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D</td>
<td>391</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>400</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>452</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>138</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>147</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>168</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>176</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>177</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>178</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>183</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>184</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>225</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>229</td>
<td>ASN</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>237</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>281</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>322</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>345</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>350</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>366</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>391</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>400</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>452</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>138</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>147</td>
<td>VAL</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>F</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>168</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>176</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>177</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>178</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>183</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>184</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>225</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>229</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>237</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>281</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>322</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>345</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>350</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>366</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>391</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>400</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>452</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>43</td>
<td>SER</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>138</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>147</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>168</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>176</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>177</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>178</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>183</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>184</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>225</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>229</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>237</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>281</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>322</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>345</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>350</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>366</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>391</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>400</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>452</td>
<td>ARG</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>172</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>210</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>221</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>230</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>232</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>233</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>247</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>248</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>255</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>267</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>272</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>328</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>329</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>331</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>343</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>364</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>419</td>
<td>LEU</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>H</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>452</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>172</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>210</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>221</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>230</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>232</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>233</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>247</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>248</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>255</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>267</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>272</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>328</td>
<td>ASP</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I</td>
<td>329</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>331</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>343</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>364</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>452</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>172</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>210</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>221</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>230</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>232</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>233</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>247</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>248</td>
<td>LEU</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>J</td>
<td>255</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>267</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>272</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>328</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>329</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>331</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>343</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>364</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>452</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>172</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>197</td>
<td>ARG</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>K</td>
<td>210</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>221</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>230</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>232</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>233</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>247</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>248</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>255</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>267</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>272</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>328</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>329</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>331</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>343</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>364</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>452</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>74</td>
<td>VAL</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>L</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>172</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>210</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>221</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>230</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>232</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>233</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>247</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>248</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>255</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>267</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>272</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>328</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>329</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>331</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>343</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>364</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>452</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>18</td>
<td>ARG</td>
</tr>
</tbody>
</table>

Continued on next page...
### Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>172</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>210</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>221</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>230</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>232</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>233</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>247</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>248</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>255</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>267</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>272</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>328</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>329</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>331</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>343</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>364</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>419</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>420</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>421</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>422</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>430</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>445</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>451</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>452</td>
<td>ARG</td>
</tr>
</tbody>
</table>

*Continued on next page...*
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M</td>
<td>461</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>494</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>504</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>510</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>514</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>6</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>23</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>43</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>44</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>48</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>62</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>74</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>129</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>172</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>197</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>210</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>221</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>230</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>232</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>233</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>247</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>248</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>255</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>267</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>268</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>272</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>288</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>328</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>329</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>331</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>343</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>364</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>389</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>417</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>419</td>
<td>LEU</td>
</tr>
</tbody>
</table>

Continued on next page...
Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (152) such sidechains are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>348</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>366</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>153</td>
<td>ASN</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B</td>
<td>348</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>348</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>348</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>348</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>366</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>348</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>366</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>153</td>
<td>ASN</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>348</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>366</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>319</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>453</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>467</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>319</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>467</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>319</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>467</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>319</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>467</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>319</td>
<td>GLN</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>L</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>467</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>319</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>453</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>467</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>97</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>146</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>153</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>319</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>453</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>467</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>475</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>O</td>
<td>5</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>O</td>
<td>6</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>O</td>
<td>52</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>O</td>
<td>81</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>O</td>
<td>102</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>P</td>
<td>5</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>P</td>
<td>6</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>P</td>
<td>52</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>P</td>
<td>81</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>P</td>
<td>102</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>5</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>6</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>52</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>81</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>Q</td>
<td>102</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>5</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>6</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>52</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>81</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>R</td>
<td>102</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>5</td>
<td>GLN</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>S</td>
<td>6</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>52</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>81</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>S</td>
<td>102</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>5</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>6</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>52</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>81</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>102</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>5</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>6</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>52</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>81</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>U</td>
<td>102</td>
<td>HIS</td>
</tr>
</tbody>
</table>

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:
<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Number of breaks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>3</td>
</tr>
</tbody>
</table>

All chain breaks are listed below:

<table>
<thead>
<tr>
<th>Model</th>
<th>Chain</th>
<th>Residue-1</th>
<th>Atom-1</th>
<th>Residue-2</th>
<th>Atom-2</th>
<th>Distance (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>H</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>4.21</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>4.21</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>4.21</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>4.21</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>4.21</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>4.21</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>4.21</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>3.08</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>3.08</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>3.08</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>3.08</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>3.08</td>
</tr>
<tr>
<td>1</td>
<td>M</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>3.08</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>3.08</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>2.83</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>2.83</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>2.83</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>2.83</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>2.83</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>2.83</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>409:GLU</td>
<td>C</td>
<td>410:GLY</td>
<td>N</td>
<td>2.83</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>2.40</td>
</tr>
<tr>
<td>1</td>
<td>I</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>2.40</td>
</tr>
<tr>
<td>1</td>
<td>J</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>2.40</td>
</tr>
<tr>
<td>1</td>
<td>K</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>2.40</td>
</tr>
<tr>
<td>1</td>
<td>L</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>2.40</td>
</tr>
</tbody>
</table>

Continued on next page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Model</th>
<th>Chain</th>
<th>Residue-1</th>
<th>Atom-1</th>
<th>Residue-2</th>
<th>Atom-2</th>
<th>Distance (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>M</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>2.40</td>
</tr>
<tr>
<td>1</td>
<td>N</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>2.40</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>1.85</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>1.84</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>1.84</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>1.84</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>1.84</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>1.84</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>136:VAL</td>
<td>C</td>
<td>137:PRO</td>
<td>N</td>
<td>1.84</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>0.56</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>0.56</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>0.56</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>0.56</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>0.56</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>0.56</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>191:GLU</td>
<td>C</td>
<td>192:GLY</td>
<td>N</td>
<td>0.56</td>
</tr>
</tbody>
</table>