Full wwPDB X-ray Structure Validation Report

Aug 8, 2018 – 02:21 AM EDT

PDB ID : 2RG0
Title : Crystal structure of cellobiohydrolase from Melanocarpus albomyces complexed with cellotetraose
Authors : Parkkinen, T.; Koivula, A.; Vehmaanper, J.; Rouvinen, J.
Deposited on : 2007-10-02
Resolution : 2.10 Å (reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the symbol.

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

MolProbity : 4.02b-467
Mogul : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
EDS : rb-20031172
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20031172
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

**X-RAY DIFFRACTION**

The reported resolution of this entry is 2.10 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>Similar resolution (#Entries, resolution range(Å))</th>
</tr>
</thead>
<tbody>
<tr>
<td>R_free</td>
<td>111664</td>
<td>4608 (2.10-2.10)</td>
</tr>
<tr>
<td>Clashscore</td>
<td>122126</td>
<td>5109 (2.10-2.10)</td>
</tr>
<tr>
<td>Ramachandran outliers</td>
<td>120053</td>
<td>5059 (2.10-2.10)</td>
</tr>
<tr>
<td>Sidechain outliers</td>
<td>120020</td>
<td>5060 (2.10-2.10)</td>
</tr>
<tr>
<td>RSRZ outliers</td>
<td>108989</td>
<td>4497 (2.10-2.10)</td>
</tr>
</tbody>
</table>

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for >=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%

The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

<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>430</td>
<td>[22%, 55%, 21%]</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>430</td>
<td>[21%, 55%, 22%]</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>430</td>
<td>[20%, 59%, 20%]</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>430</td>
<td>[23%, 56%, 19%]</td>
</tr>
</tbody>
</table>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit crite-
<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Chirality</th>
<th>Geometry</th>
<th>Clashes</th>
<th>Electron density</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PCA</td>
<td>A</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>1</td>
<td>PCA</td>
<td>B</td>
<td>1</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
</tbody>
</table>
2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 13956 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 Cellulose 1,4-beta-cellobiosidase.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>430</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3333 2075 558 669 31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>430</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3333 2075 558 669 31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>430</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3333 2075 558 669 31</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>430</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3333 2075 558 669 31</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There are 4 discrepancies between the modelled and reference sequences:

<table>
<thead>
<tr>
<th>Chain</th>
<th>Residue</th>
<th>Modeled</th>
<th>Actual</th>
<th>Comment</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1</td>
<td>PCA</td>
<td>GLN</td>
<td>ENGINEERED</td>
<td>UNP Q8J0K6</td>
</tr>
<tr>
<td>B</td>
<td>1</td>
<td>PCA</td>
<td>GLN</td>
<td>ENGINEERED</td>
<td>UNP Q8J0K6</td>
</tr>
<tr>
<td>C</td>
<td>1</td>
<td>PCA</td>
<td>GLN</td>
<td>ENGINEERED</td>
<td>UNP Q8J0K6</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>PCA</td>
<td>GLN</td>
<td>ENGINEERED</td>
<td>UNP Q8J0K6</td>
</tr>
</tbody>
</table>

- Molecule 2 is CELLOBIOSE (three-letter code: CBI) (formula: C_{12}H_{22}O_{11}).
- Molecule 3 is beta-D-glucopyranosyl-(1->4)-beta-D-glucopyranosyl-(1->4)-beta-D-glucopyranosyl-(1->4)-beta-D-glucopyranose (three-letter code: CTT) (formula: C_{24}H_{42}O_{21}).
Molecule 4 is water.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>B</td>
<td>1</td>
<td>Total C O</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>45 24 21</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>A</td>
<td>101</td>
<td>Total O</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>101 101</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>109</td>
<td>Total O</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>109 109</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>C</td>
<td>122</td>
<td>Total O</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122 122</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>D</td>
<td>132</td>
<td>Total O</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>132 132</td>
<td></td>
<td></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 and electron density. 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. A red dot above a residue indicates a poor fit to the electron density (RSRZ > 2). 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: Cellulose 1,4-beta-cellobiosidase

Chain A:

- Molecule 1: Cellulose 1,4-beta-cellobiosidase

Chain B:
• Molecule 1: Cellulose 1,4-beta-cellobiosidase

Chain C:

• Molecule 1: Cellulose 1,4-beta-cellobiosidase

Chain D:
## 4 Data and refinement statistics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Space group</td>
<td>P 1 2 1</td>
<td>Depositor</td>
</tr>
<tr>
<td>Cell constants</td>
<td>50.98Å 94.81Å 190.43Å</td>
<td>Depositor</td>
</tr>
<tr>
<td>a, b, c, α, β, γ</td>
<td>90.00° 90.01° 90.00°</td>
<td>Depositor</td>
</tr>
<tr>
<td>Resolution (Å)</td>
<td>20.00 – 2.10</td>
<td>Depositor</td>
</tr>
<tr>
<td>% Data completeness (in range)</td>
<td>94.6 (20.00-2.10)</td>
<td>Depositor</td>
</tr>
<tr>
<td>Rmerge</td>
<td>(Not available)</td>
<td>Depositor</td>
</tr>
<tr>
<td>Rsym</td>
<td>0.18</td>
<td>Depositor</td>
</tr>
<tr>
<td>I/σ(I)</td>
<td>1.38 (at 2.10Å)</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Refinement program</td>
<td>SHELX, SHELXL-97</td>
<td>Depositor</td>
</tr>
<tr>
<td>R, Rfree</td>
<td>0.211, 0.282</td>
<td>Depositor</td>
</tr>
<tr>
<td>R&lt;sub&gt;free&lt;/sub&gt; test set</td>
<td>5264 reflections (5.00%)</td>
<td>wwPDB-VP</td>
</tr>
<tr>
<td>Wilson B-factor (Å&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>10.2</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Anisotropy</td>
<td>0.220</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Bulk solvent k&lt;sub&gt;sol&lt;/sub&gt;(e/Å³), B&lt;sub&gt;sol&lt;/sub&gt;(Å&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>0.21, 68.3</td>
<td>EDS</td>
</tr>
<tr>
<td>L-test for twinning&lt;sup&gt;2&lt;/sup&gt;</td>
<td>&lt;</td>
<td>L</td>
</tr>
<tr>
<td>Estimated twinning fraction</td>
<td>0.428 for h,-k,-l</td>
<td>Xtriage</td>
</tr>
<tr>
<td>F&lt;sub&gt;o&lt;/sub&gt;-F&lt;sub&gt;c&lt;/sub&gt; correlation</td>
<td>0.87</td>
<td>EDS</td>
</tr>
<tr>
<td>Total number of atoms</td>
<td>13956</td>
<td>wwPDB-VP</td>
</tr>
<tr>
<td>Average B, all atoms (Å&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>32.0</td>
<td>wwPDB-VP</td>
</tr>
</tbody>
</table>

Xtriage’s analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 18.53% of the height of the origin peak. No significant pseudotranslation is detected.*

---

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical values of < |L| >, < L<sup>2</sup> > for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.


5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CTT, PCA, CBI.

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>0.32</td>
<td>0/3416</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>0.33</td>
<td>0/3416</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>0.32</td>
<td>0/3416</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>0.33</td>
<td>0/3416</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>0.33</td>
<td>0/13664</td>
</tr>
</tbody>
</table>

There are no bond length outliers.

All (16) 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$^\circ$</th>
<th>Ideal$^\circ$</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>D</td>
<td>251</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>8.88</td>
<td>136.04</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>366</td>
<td>TRP</td>
<td>C-N-CA</td>
<td>8.45</td>
<td>142.81</td>
<td>121.70</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>18</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.83</td>
<td>124.22</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>228</td>
<td>HIS</td>
<td>CA-CB-CG</td>
<td>6.30</td>
<td>124.31</td>
<td>113.60</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>42</td>
<td>HIS</td>
<td>C-N-CA</td>
<td>6.11</td>
<td>136.98</td>
<td>121.70</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>216</td>
<td>TRP</td>
<td>C-N-CA</td>
<td>5.87</td>
<td>136.38</td>
<td>121.70</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>339</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-5.71</td>
<td>117.44</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>26</td>
<td>GLN</td>
<td>C-N-CA</td>
<td>5.69</td>
<td>135.92</td>
<td>121.70</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>34</td>
<td>ILE</td>
<td>C-N-CA</td>
<td>5.47</td>
<td>135.37</td>
<td>121.70</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>225</td>
<td>PHE</td>
<td>CB-CG-CD2</td>
<td>5.33</td>
<td>124.53</td>
<td>120.80</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>39</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-5.30</td>
<td>117.65</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>143</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>5.26</td>
<td>134.86</td>
<td>121.70</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>38</td>
<td>TRP</td>
<td>CA-CB-CG</td>
<td>5.23</td>
<td>123.64</td>
<td>113.70</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>189</td>
<td>ILE</td>
<td>C-N-CA</td>
<td>5.17</td>
<td>134.62</td>
<td>121.70</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>266</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>5.04</td>
<td>124.03</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>384</td>
<td>LYS</td>
<td>C-N-CA</td>
<td>5.02</td>
<td>134.26</td>
<td>121.70</td>
</tr>
</tbody>
</table>

There are no chirality outliers.

There are no planarity outliers.
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>3333</td>
<td>0</td>
<td>3028</td>
<td>376</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>3333</td>
<td>0</td>
<td>3027</td>
<td>401</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>3333</td>
<td>0</td>
<td>3028</td>
<td>399</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>3333</td>
<td>0</td>
<td>3028</td>
<td>360</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>A</td>
<td>46</td>
<td>0</td>
<td>44</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>C</td>
<td>23</td>
<td>0</td>
<td>22</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>46</td>
<td>0</td>
<td>44</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>45</td>
<td>0</td>
<td>42</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>A</td>
<td>101</td>
<td>0</td>
<td>0</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>109</td>
<td>0</td>
<td>0</td>
<td>11</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>C</td>
<td>122</td>
<td>0</td>
<td>0</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>D</td>
<td>132</td>
<td>0</td>
<td>0</td>
<td>12</td>
<td>0</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>13956</td>
<td>0</td>
<td>12263</td>
<td>1514</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 59.

All (1514) 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:B:37:ASN:HA</td>
<td>1:B:181:LYS:HE2</td>
<td>1.38</td>
<td>1.02</td>
</tr>
<tr>
<td>1:D:21:ALA:HB3</td>
<td>1:D:24:ASN:HD22</td>
<td>1.18</td>
<td>1.01</td>
</tr>
<tr>
<td>1:C:250:ASP:HB3</td>
<td>1:C:253:ALA:HB2</td>
<td>1.42</td>
<td>1.01</td>
</tr>
<tr>
<td>1:B:2:ARG:HA</td>
<td>1:B:162:GLN:HB2</td>
<td>1.40</td>
<td>0.99</td>
</tr>
<tr>
<td>1:A:296:LYS:HE3</td>
<td>1:A:323:GLU:HB3</td>
<td>1.44</td>
<td>0.98</td>
</tr>
<tr>
<td>1:B:32:VAL:HG11</td>
<td>1:B:90:LEU:HD22</td>
<td>1.46</td>
<td>0.97</td>
</tr>
<tr>
<td>1:A:297:LEU:HB2</td>
<td>1:A:324:ILE:HB</td>
<td>1.47</td>
<td>0.94</td>
</tr>
<tr>
<td>1:C:155:MET:HA</td>
<td>1:C:161:ASN:HB3</td>
<td>1.49</td>
<td>0.94</td>
</tr>
<tr>
<td>1:D:77:TYR:HB3</td>
<td>1:D:83:ALA:HB3</td>
<td>1.48</td>
<td>0.94</td>
</tr>
<tr>
<td>1:D:373:MET:HG3</td>
<td>1:D:376:LEU:HB3</td>
<td>1.49</td>
<td>0.94</td>
</tr>
<tr>
<td>1:C:39:ARG:HH22</td>
<td>1:C:74:ALA:HB2</td>
<td>1.31</td>
<td>0.93</td>
</tr>
<tr>
<td>1:B:111:MET:HA</td>
<td>1:B:118:GLN:H</td>
<td>1.36</td>
<td>0.91</td>
</tr>
<tr>
<td>1:C:267:ARG:HG3</td>
<td>1:C:392:ARG:HG3</td>
<td>1.51</td>
<td>0.88</td>
</tr>
<tr>
<td>1:B:230:CYS:HA</td>
<td>1:B:256:CYS:HA</td>
<td>1.56</td>
<td>0.87</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:C:372:ASN:HB3</td>
<td>1:C:400:GLY:HA3</td>
<td>1.55</td>
<td>0.87</td>
</tr>
<tr>
<td>1:A:146:PHE:HB3</td>
<td>1:A:359:MET:HB3</td>
<td>1.55</td>
<td>0.86</td>
</tr>
<tr>
<td>1:D:291:ARG:HG3</td>
<td>1:D:298:SER:HB3</td>
<td>1.58</td>
<td>0.84</td>
</tr>
<tr>
<td>1:B:105:GLY:HA2</td>
<td>1:B:365:ILE:HG22</td>
<td>1.60</td>
<td>0.82</td>
</tr>
<tr>
<td>1:D:250:ASP:HB3</td>
<td>1:D:253:ALA:HB2</td>
<td>1.62</td>
<td>0.82</td>
</tr>
<tr>
<td>1:C:32:VAL:HG13</td>
<td>1:C:110:LEU:HD13</td>
<td>1.61</td>
<td>0.82</td>
</tr>
<tr>
<td>1:C:139:GLY:HA3</td>
<td>1:C:400:GLY:HA2</td>
<td>1.58</td>
<td>0.81</td>
</tr>
<tr>
<td>1:D:226:THR:HG23</td>
<td>1:D:262:ASP:HB3</td>
<td>1.61</td>
<td>0.81</td>
</tr>
<tr>
<td>1:D:297:LEU:HD11</td>
<td>1:D:355:LEU:HD11</td>
<td>1.62</td>
<td>0.81</td>
</tr>
<tr>
<td>1:D:408:GLN:HG3</td>
<td>1:D:409:PHE:HD1</td>
<td>1.46</td>
<td>0.81</td>
</tr>
<tr>
<td>1:D:135:THR:HB</td>
<td>1:D:413:GLN:H</td>
<td>1.45</td>
<td>0.81</td>
</tr>
<tr>
<td>1:D:110:LEU:HD12</td>
<td>1:D:111:MET:H</td>
<td>1.46</td>
<td>0.80</td>
</tr>
<tr>
<td>1:A:128:ALA:HB3</td>
<td>1:A:420:ARG:HB2</td>
<td>1.64</td>
<td>0.80</td>
</tr>
<tr>
<td>1:D:228:HIS:HB3</td>
<td>1:D:257:ASP:HB3</td>
<td>1.61</td>
<td>0.80</td>
</tr>
<tr>
<td>1:B:123:MET:HE1</td>
<td>1:B:356:ARG:HE</td>
<td>1.46</td>
<td>0.80</td>
</tr>
<tr>
<td>1:B:147:VAL:HG12</td>
<td>1:B:212:GLU:HB2</td>
<td>1.64</td>
<td>0.80</td>
</tr>
<tr>
<td>1:B:227:PRO:HG3</td>
<td>1:B:324:ILE:HG21</td>
<td>1.64</td>
<td>0.80</td>
</tr>
<tr>
<td>1:B:146:PHE:HB3</td>
<td>1:B:359:MET:HB3</td>
<td>1.62</td>
<td>0.79</td>
</tr>
<tr>
<td>1:B:42:HIS:HA</td>
<td>1:B:49:CYS:HB2</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>1:D:129:PHE:HA</td>
<td>1:D:418:ASN:O</td>
<td>1.83</td>
<td>0.78</td>
</tr>
<tr>
<td>1:D:36:ALA:HA</td>
<td>1:D:39:ARG:HD2</td>
<td>1.64</td>
<td>0.78</td>
</tr>
<tr>
<td>1:D:16:TRP:O</td>
<td>1:D:28:VAL:HB</td>
<td>1.83</td>
<td>0.78</td>
</tr>
<tr>
<td>1:A:342:PHE:HD2</td>
<td>1:A:343:GLU:HG3</td>
<td>1.48</td>
<td>0.78</td>
</tr>
<tr>
<td>1:D:396:PRO:O</td>
<td>1:D:399:SER:HB3</td>
<td>1.84</td>
<td>0.78</td>
</tr>
<tr>
<td>1:C:254:GLY:HA3</td>
<td>4:C:500:HOH:O</td>
<td>1.83</td>
<td>0.78</td>
</tr>
<tr>
<td>1:C:306:ARG:HH21</td>
<td>1:D:305:GLY:H</td>
<td>1.28</td>
<td>0.78</td>
</tr>
<tr>
<td>1:D:91:THR:O</td>
<td>1:D:92:LEU:HD23</td>
<td>1.84</td>
<td>0.77</td>
</tr>
<tr>
<td>1:A:137:GLU:O</td>
<td>1:A:140:ILE:HG13</td>
<td>1.84</td>
<td>0.77</td>
</tr>
<tr>
<td>1:A:2:ARG:HG3</td>
<td>1:A:69:CYS:O</td>
<td>1.84</td>
<td>0.77</td>
</tr>
<tr>
<td>1:D:227:PRO:HD2</td>
<td>1:D:261:CYS:O</td>
<td>1.83</td>
<td>0.77</td>
</tr>
<tr>
<td>1:B:177:ALA:HB3</td>
<td>1:B:208:SER:OG</td>
<td>1.85</td>
<td>0.77</td>
</tr>
<tr>
<td>1:B:178:ARG:HA</td>
<td>1:B:206:TYR:O</td>
<td>1.84</td>
<td>0.77</td>
</tr>
<tr>
<td>1:C:175:GLN:OE1</td>
<td>1:C:246:THR:HB</td>
<td>1.84</td>
<td>0.77</td>
</tr>
<tr>
<td>1:C:176:CYS:O</td>
<td>1:C:178:ARG:HG2</td>
<td>1.85</td>
<td>0.77</td>
</tr>
<tr>
<td>1:C:265:PRO:HA</td>
<td>1:C:270:ASN:HD22</td>
<td>1.49</td>
<td>0.77</td>
</tr>
<tr>
<td>1:B:146:PHE:HA</td>
<td>1:B:360:VAL:O</td>
<td>1.83</td>
<td>0.77</td>
</tr>
<tr>
<td>1:A:175:GLN:OE1</td>
<td>1:A:258:ALA:HB1</td>
<td>1.85</td>
<td>0.77</td>
</tr>
<tr>
<td>1:A:17:GLN:HB2</td>
<td>1:A:27:THR:HA</td>
<td>1.65</td>
<td>0.77</td>
</tr>
<tr>
<td>1:C:263:TYR:HA</td>
<td>1:C:268:MET:HE3</td>
<td>1.67</td>
<td>0.76</td>
</tr>
<tr>
<td>1:A:257:ASP:HA</td>
<td>1:A:341:ARG:HD3</td>
<td>1.66</td>
<td>0.76</td>
</tr>
<tr>
<td>1:A:293:GLU:HG2</td>
<td>1:A:296:LYS:O</td>
<td>1.84</td>
<td>0.76</td>
</tr>
</tbody>
</table>

Continued from previous 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:97:LYS:HD2</td>
<td>1:C:6:GLU:OE2</td>
<td>1.85</td>
<td>0.76</td>
</tr>
<tr>
<td>1:A:341:ARG:O</td>
<td>1:A:345:VAL:HG22</td>
<td>1.86</td>
<td>0.76</td>
</tr>
<tr>
<td>1:B:420:ARG:HB2</td>
<td>1:B:427:THR:HG22</td>
<td>1.68</td>
<td>0.76</td>
</tr>
<tr>
<td>1:B:269:GLY:HA3</td>
<td>1:B:314:THR:OG1</td>
<td>1.84</td>
<td>0.76</td>
</tr>
<tr>
<td>1:C:36:ALA:HA</td>
<td>1:C:39:ARG:HG3</td>
<td>1.65</td>
<td>0.76</td>
</tr>
<tr>
<td>1:A:104:VAL:HG23</td>
<td>2:A:432:CB1:O6</td>
<td>1.86</td>
<td>0.76</td>
</tr>
<tr>
<td>1:B:379:ILE:HA</td>
<td>1:B:390:ALA:O</td>
<td>1.85</td>
<td>0.76</td>
</tr>
<tr>
<td>1:D:95:VAL:HG22</td>
<td>1:D:104:VAL:HG13</td>
<td>1.68</td>
<td>0.76</td>
</tr>
<tr>
<td>1:B:126:GLU:HB2</td>
<td>1:B:290:SER:O</td>
<td>1.86</td>
<td>0.76</td>
</tr>
<tr>
<td>1:C:41:LEU:HA</td>
<td>1:C:70:MET:O</td>
<td>1.86</td>
<td>0.76</td>
</tr>
<tr>
<td>1:D:295:ASN:H</td>
<td>1:D:352:ASN:ND2</td>
<td>1.84</td>
<td>0.76</td>
</tr>
<tr>
<td>1:B:274:TYR:HA</td>
<td>1:B:280:LEU:HB3</td>
<td>1.67</td>
<td>0.76</td>
</tr>
<tr>
<td>1:C:127:LEU:HD12</td>
<td>1:C:420:ARG:O</td>
<td>1.86</td>
<td>0.76</td>
</tr>
<tr>
<td>1:D:104:VAL:HG21</td>
<td>1:D:406:GLU:OE1</td>
<td>1.86</td>
<td>0.76</td>
</tr>
<tr>
<td>1:D:96:THR:OG1</td>
<td>1:D:103:ASN:HB3</td>
<td>1.85</td>
<td>0.76</td>
</tr>
<tr>
<td>1:A:343:GLU:HA</td>
<td>1:A:347:GLY:H</td>
<td>1.50</td>
<td>0.75</td>
</tr>
<tr>
<td>1:A:34:ILE:HB</td>
<td>1:A:77:TYR:OH</td>
<td>1.86</td>
<td>0.75</td>
</tr>
<tr>
<td>1:A:267:ARG:HG3</td>
<td>1:A:392:ARG:HG3</td>
<td>1.67</td>
<td>0.75</td>
</tr>
<tr>
<td>1:B:147:VAL:O</td>
<td>1:B:360:VAL:HG23</td>
<td>1.86</td>
<td>0.75</td>
</tr>
<tr>
<td>1:D:175:GLN:O</td>
<td>1:D:245:GLY:HA3</td>
<td>1.85</td>
<td>0.75</td>
</tr>
<tr>
<td>1:D:125:ASN:HD22</td>
<td>1:D:423:PRO:HA</td>
<td>1.51</td>
<td>0.75</td>
</tr>
<tr>
<td>1:C:111:MET:HA</td>
<td>1:C:117:TYR:HA</td>
<td>1.69</td>
<td>0.75</td>
</tr>
<tr>
<td>1:C:41:LEU:HD23</td>
<td>1:C:70:MET:O</td>
<td>1.86</td>
<td>0.75</td>
</tr>
<tr>
<td>1:D:158:TYR:HB3</td>
<td>1:D:185:GLY:HA3</td>
<td>1.68</td>
<td>0.75</td>
</tr>
<tr>
<td>1:B:134:SER:HB3</td>
<td>4:B:510:HOH:O</td>
<td>1.86</td>
<td>0.75</td>
</tr>
<tr>
<td>1:B:88:ASP:O</td>
<td>1:B:417:SER:HA</td>
<td>1.87</td>
<td>0.75</td>
</tr>
<tr>
<td>1:C:188:ASN:HB3</td>
<td>1:C:204:GLY:HA3</td>
<td>1.67</td>
<td>0.75</td>
</tr>
<tr>
<td>1:B:292:PHE:HB3</td>
<td>1:B:355:LEU:HD11</td>
<td>1.68</td>
<td>0.74</td>
</tr>
<tr>
<td>1:C:226:THR:HG23</td>
<td>1:C:262:ASP:HB3</td>
<td>1.68</td>
<td>0.74</td>
</tr>
<tr>
<td>1:A:251:ARG:HH22</td>
<td>2:A:431:CB1:H2</td>
<td>1.52</td>
<td>0.74</td>
</tr>
<tr>
<td>1:A:276:LYS:HG3</td>
<td>1:A:283:SER:HB3</td>
<td>1.69</td>
<td>0.74</td>
</tr>
<tr>
<td>1:B:325:THR:OG1</td>
<td>1:B:328:LEU:HB2</td>
<td>1.88</td>
<td>0.74</td>
</tr>
<tr>
<td>1:B:41:LEU:HD23</td>
<td>1:B:71:ILE:HG23</td>
<td>1.69</td>
<td>0.74</td>
</tr>
<tr>
<td>1:C:379:ILE:HA</td>
<td>1:C:390:ALA:O</td>
<td>1.87</td>
<td>0.74</td>
</tr>
<tr>
<td>1:B:32:VAL:HA</td>
<td>1:B:109:TYR:O</td>
<td>1.88</td>
<td>0.74</td>
</tr>
<tr>
<td>1:B:268:MET:HA</td>
<td>1:B:315:TRP:NE1</td>
<td>2.03</td>
<td>0.74</td>
</tr>
<tr>
<td>1:C:206:TYR:HA</td>
<td>1:C:238:CYS:O</td>
<td>1.88</td>
<td>0.74</td>
</tr>
<tr>
<td>1:A:89:ALA:HA</td>
<td>1:A:417:SER:HB3</td>
<td>1.70</td>
<td>0.73</td>
</tr>
<tr>
<td>1:D:349:GLU:HA</td>
<td>1:D:352:ASN:OD1</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>1:A:107:ARG:HG3</td>
<td>1:A:364:SER:HB2</td>
<td>1.70</td>
<td>0.73</td>
</tr>
</tbody>
</table>

Continued on next page...
### Table: Interatomic Distances and Overlaps

<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:229:ALA:O</td>
<td>1:B:345:VAL:HG21</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>1:D:27:THR:HG23</td>
<td>1:D:29:ASN:HD21</td>
<td>1.53</td>
<td>0.73</td>
</tr>
<tr>
<td>1:B:277:GLY:HA2</td>
<td>1:B:281:ASP:OD1</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>1:D:231:THR:OG1</td>
<td>1:D:255:LYS:HB3</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>1:D:264:ASN:HD21</td>
<td>1:D:266:TYR:HB3</td>
<td>1.52</td>
<td>0.73</td>
</tr>
<tr>
<td>1:D:254:ALA:O</td>
<td>1:D:357:VAL:HG23</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>1:D:358:PRO:HA</td>
<td>1:D:359:PRO:HA</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>1:A:17:GLN:OE1</td>
<td>1:A:420:ARG:HD3</td>
<td>1.89</td>
<td>0.73</td>
</tr>
<tr>
<td>1:D:211:ALA:HB2</td>
<td>1:D:233:ASN:HB3</td>
<td>1.69</td>
<td>0.73</td>
</tr>
<tr>
<td>1:D:92:LEU:HB2</td>
<td>1:D:414:VAL:HG12</td>
<td>1.71</td>
<td>0.73</td>
</tr>
<tr>
<td>1:D:122:LEU:O</td>
<td>1:D:292:PHE:HB2</td>
<td>1.89</td>
<td>0.73</td>
</tr>
<tr>
<td>1:A:110:LEU:HB3</td>
<td>1:A:118:GLN:HB3</td>
<td>1.71</td>
<td>0.73</td>
</tr>
<tr>
<td>1:A:296:LYS:HA</td>
<td>1:A:324:ILE:O</td>
<td>1.88</td>
<td>0.72</td>
</tr>
<tr>
<td>1:A:296:LYS:HG3</td>
<td>1:A:325:THR:HG2</td>
<td>1.72</td>
<td>0.72</td>
</tr>
<tr>
<td>1:B:240:THR:O</td>
<td>1:B:243:CYS:HB2</td>
<td>1.89</td>
<td>0.72</td>
</tr>
<tr>
<td>1:A:266:TYR:HB3</td>
<td>1:A:392:ARG:O</td>
<td>1.89</td>
<td>0.72</td>
</tr>
<tr>
<td>1:B:127:LEU:HD11</td>
<td>1:B:419:ILE:HG23</td>
<td>1.70</td>
<td>0.72</td>
</tr>
<tr>
<td>1:B:59:CYS:HB3</td>
<td>1:B:189:ILE:HD13</td>
<td>1.70</td>
<td>0.72</td>
</tr>
<tr>
<td>1:A:335:VAL:HG23</td>
<td>4:A:467:HOH:O</td>
<td>1.88</td>
<td>0.72</td>
</tr>
<tr>
<td>1:D:254:GLY:HA3</td>
<td>4:D:491:HOH:O</td>
<td>1.89</td>
<td>0.72</td>
</tr>
<tr>
<td>1:A:19:CYS:HB3</td>
<td>1:A:426:SER:O</td>
<td>1.89</td>
<td>0.72</td>
</tr>
<tr>
<td>1:A:354:ALA:O</td>
<td>1:A:357:VAL:HG23</td>
<td>1.90</td>
<td>0.72</td>
</tr>
<tr>
<td>1:B:117:TYR:O</td>
<td>1:B:151:GLU:HG3</td>
<td>1.90</td>
<td>0.72</td>
</tr>
<tr>
<td>1:B:175:GLN:NE2</td>
<td>3:B:431:CTT:H4C</td>
<td>2.05</td>
<td>0.72</td>
</tr>
<tr>
<td>1:D:105:GLY:HA2</td>
<td>1:D:365:ILE:HG23</td>
<td>1.71</td>
<td>0.72</td>
</tr>
<tr>
<td>1:A:38:TRP:HD1</td>
<td>1:A:103:ASN:HD21</td>
<td>1.38</td>
<td>0.72</td>
</tr>
<tr>
<td>1:B:53:ASN:O</td>
<td>1:B:194:SER:HB3</td>
<td>1.89</td>
<td>0.72</td>
</tr>
<tr>
<td>1:B:222:ALA:HB3</td>
<td>1:B:376:LEU:O</td>
<td>1.89</td>
<td>0.72</td>
</tr>
<tr>
<td>1:D:53:ASN:HA</td>
<td>1:D:200:ASN:O</td>
<td>1.89</td>
<td>0.72</td>
</tr>
<tr>
<td>1:C:84:SER:O</td>
<td>1:C:90:LEU:HD12</td>
<td>1.90</td>
<td>0.72</td>
</tr>
<tr>
<td>1:D:34:ILE:HG22</td>
<td>1:D:39:ARG:NH2</td>
<td>2.05</td>
<td>0.72</td>
</tr>
<tr>
<td>1:B:374:LEU:HD23</td>
<td>1:B:378:SER:HB3</td>
<td>1.70</td>
<td>0.71</td>
</tr>
<tr>
<td>1:A:149:MET:HE2</td>
<td>1:A:360:VAL:HG21</td>
<td>1.72</td>
<td>0.71</td>
</tr>
<tr>
<td>1:D:41:LEU:HD13</td>
<td>1:D:49:CYS:HB2</td>
<td>1.71</td>
<td>0.71</td>
</tr>
<tr>
<td>1:D:39:ARG:HB3</td>
<td>1:D:71:ILE:HG22</td>
<td>1.71</td>
<td>0.71</td>
</tr>
<tr>
<td>1:C:293:GLU:OE1</td>
<td>1:C:296:LYS:HE3</td>
<td>1.89</td>
<td>0.71</td>
</tr>
<tr>
<td>1:A:356:ARG:HD3</td>
<td>1:B:20:THR:HB</td>
<td>1.71</td>
<td>0.71</td>
</tr>
<tr>
<td>1:B:212:GLU:O</td>
<td>1:B:228:HIS:HB2</td>
<td>1.90</td>
<td>0.71</td>
</tr>
<tr>
<td>1:C:19:CYS:HA</td>
<td>1:C:25:CYS:HA</td>
<td>1.72</td>
<td>0.71</td>
</tr>
<tr>
<td>1:C:318:MET:HE2</td>
<td>1:C:332:MET:HA</td>
<td>1.72</td>
<td>0.71</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:111:MET:HB2</td>
<td>1:B:116:LYS:O</td>
<td>1.89</td>
<td>0.71</td>
</tr>
<tr>
<td>1:A:292:PHE:HA</td>
<td>1:A:297:LEU:HD12</td>
<td>1.73</td>
<td>0.71</td>
</tr>
<tr>
<td>1:B:101:GLY:HA3</td>
<td>4:B:513:HOH:O</td>
<td>1.90</td>
<td>0.71</td>
</tr>
<tr>
<td>1:D:319:PRO:HD3</td>
<td>1:D:331:THR:OG1</td>
<td>1.91</td>
<td>0.71</td>
</tr>
<tr>
<td>1:D:401:VAL:HB</td>
<td>1:D:404:GLU:HB2</td>
<td>1.71</td>
<td>0.71</td>
</tr>
<tr>
<td>1:B:75:GLY:HA2</td>
<td>1:C:78:LEU:HD12</td>
<td>1.73</td>
<td>0.70</td>
</tr>
<tr>
<td>1:D:350:GLN:O</td>
<td>1:D:353:ASN:HB2</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>1:A:275:GLY:O</td>
<td>1:A:281:ASP:HA</td>
<td>1.90</td>
<td>0.70</td>
</tr>
<tr>
<td>1:C:1:PCA:HA</td>
<td>1:C:66:ALA:O</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>1:D:189:ILE:H23</td>
<td>1:D:190:GLU:H</td>
<td>1.56</td>
<td>0.70</td>
</tr>
<tr>
<td>1:D:39:ARG:HA</td>
<td>4:D:583:HOH:O</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>1:D:177:ALA:O</td>
<td>1:D:180:LEU:HG</td>
<td>1.90</td>
<td>0.70</td>
</tr>
<tr>
<td>1:A:104:VAL:H23</td>
<td>2:A:432:CBI:HO6</td>
<td>1.56</td>
<td>0.70</td>
</tr>
<tr>
<td>1:B:22:PRO:HD3</td>
<td>1:B:426:SER:HA</td>
<td>1.73</td>
<td>0.70</td>
</tr>
<tr>
<td>1:D:111:MET:HE1</td>
<td>1:D:114:PRO:HA</td>
<td>1.73</td>
<td>0.70</td>
</tr>
<tr>
<td>1:A:59:CYS:HA</td>
<td>1:A:68:LYS:HD3</td>
<td>1.74</td>
<td>0.70</td>
</tr>
<tr>
<td>1:B:144:LEU:HD21</td>
<td>1:B:361:LEU:HG</td>
<td>1.74</td>
<td>0.70</td>
</tr>
<tr>
<td>1:B:281:ASP:HB3</td>
<td>1:B:284:ARG:HG3</td>
<td>1.73</td>
<td>0.70</td>
</tr>
<tr>
<td>1:B:384:LYS:HD2</td>
<td>1:B:387:GLN:HB2</td>
<td>1.74</td>
<td>0.70</td>
</tr>
<tr>
<td>1:C:149:MET:SD</td>
<td>1:C:171:TYR:HA</td>
<td>2.32</td>
<td>0.70</td>
</tr>
<tr>
<td>1:D:192:TRP:HA</td>
<td>1:D:203:VAL:O</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>1:D:249:GLU:H2</td>
<td>4:D:490:HOH:O</td>
<td>1.90</td>
<td>0.70</td>
</tr>
<tr>
<td>1:D:79:GLY:O</td>
<td>1:D:98:HIS:HB3</td>
<td>1.92</td>
<td>0.70</td>
</tr>
<tr>
<td>1:B:6:GLU:OE1</td>
<td>1:C:97:LYS:HG3</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>1:A:173:ASP:HB2</td>
<td>1:A:212:GLU:OE1</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>1:A:49:CYS:HA</td>
<td>1:A:58:ALA:O</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>1:D:96:THR:H23</td>
<td>1:D:103:ASN:O</td>
<td>1.91</td>
<td>0.69</td>
</tr>
<tr>
<td>1:A:295:ASN:OD1</td>
<td>1:A:348:PHE:HB3</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>1:C:292:PHE:HB3</td>
<td>1:C:355:LEU:HD22</td>
<td>1.74</td>
<td>0.69</td>
</tr>
<tr>
<td>1:C:39:ARG:ND2</td>
<td>1:C:74:ALA:HB2</td>
<td>2.06</td>
<td>0.69</td>
</tr>
<tr>
<td>1:C:137:GLU:H</td>
<td>1:C:140:ILE:HD12</td>
<td>1.57</td>
<td>0.69</td>
</tr>
<tr>
<td>1:C:49:CYS:HA</td>
<td>1:C:56:THR:OG1</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>1:D:239:GLU:H</td>
<td>1:D:242:ASN:ND2</td>
<td>1.91</td>
<td>0.69</td>
</tr>
<tr>
<td>1:D:372:ASN:HB3</td>
<td>1:D:400:GLY:HA3</td>
<td>1.74</td>
<td>0.69</td>
</tr>
<tr>
<td>1:D:62:ALA:HA</td>
<td>1:D:187:ALA:HB3</td>
<td>1.74</td>
<td>0.69</td>
</tr>
<tr>
<td>1:B:156:ALA:O</td>
<td>1:B:159:PRO:HD3</td>
<td>1.93</td>
<td>0.69</td>
</tr>
<tr>
<td>1:B:372:ASN:HB2</td>
<td>1:B:374:LEU:HD12</td>
<td>1.75</td>
<td>0.69</td>
</tr>
<tr>
<td>1:C:141:ASN:O</td>
<td>1:C:365:ILE:HA</td>
<td>1.93</td>
<td>0.69</td>
</tr>
<tr>
<td>1:A:295:ASN:H</td>
<td>1:A:352:ASN:ND2</td>
<td>1.91</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:A:37:ASN:HD22</td>
<td>2:A:432:CBI:H6'2</td>
<td>1.56</td>
<td>0.68</td>
</tr>
<tr>
<td>1:A:269:GLY:O</td>
<td>1:A:271:PRO:HD3</td>
<td>1.92</td>
<td>0.68</td>
</tr>
<tr>
<td>1:D:251:ARG:NH1</td>
<td>1:D:258:ALA:HB1</td>
<td>2.08</td>
<td>0.68</td>
</tr>
<tr>
<td>1:A:84:SER:O</td>
<td>1:A:90:LEU:HD12</td>
<td>1.93</td>
<td>0.68</td>
</tr>
<tr>
<td>1:A:319:PRO:HG3</td>
<td>1:A:327:GLU:HG3</td>
<td>1.75</td>
<td>0.68</td>
</tr>
<tr>
<td>1:B:34:ILE:HD13</td>
<td>1:B:35:ASP:H</td>
<td>1.59</td>
<td>0.68</td>
</tr>
<tr>
<td>1:C:32:VAL:HG12</td>
<td>1:C:109:TYR:O</td>
<td>1.93</td>
<td>0.68</td>
</tr>
<tr>
<td>1:C:345:VAL:O</td>
<td>1:C:350:GLN:HG2</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>1:B:163:ALA:HB1</td>
<td>1:D:167:TYR:HB2</td>
<td>1.75</td>
<td>0.68</td>
</tr>
<tr>
<td>1:B:111:MET:HA</td>
<td>1:B:118:GLN:N</td>
<td>2.09</td>
<td>0.68</td>
</tr>
<tr>
<td>1:B:110:LEU:O</td>
<td>1:B:118:GLN:HB3</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>1:C:150:GLU:OE2</td>
<td>1:C:157:SER:HB3</td>
<td>1.93</td>
<td>0.68</td>
</tr>
<tr>
<td>1:C:61:THR:OG1</td>
<td>1:C:64:ASP:HB3</td>
<td>1.92</td>
<td>0.68</td>
</tr>
<tr>
<td>1:B:12:PRO:HB3</td>
<td>1:B:85:THR:HG21</td>
<td>1.76</td>
<td>0.68</td>
</tr>
<tr>
<td>1:C:143:ALA:HB2</td>
<td>1:C:217:GLU:HA</td>
<td>1.76</td>
<td>0.68</td>
</tr>
<tr>
<td>1:D:273:PHE:O</td>
<td>1:D:279:THR:HB</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>1:A:177:ALA:O</td>
<td>1:A:207:GLY:HA2</td>
<td>1.93</td>
<td>0.68</td>
</tr>
<tr>
<td>1:B:267:ARG:HB3</td>
<td>1:B:268:MET:HE2</td>
<td>1.74</td>
<td>0.68</td>
</tr>
<tr>
<td>1:D:280:LEU:HD22</td>
<td>1:D:303:GLN:OE1</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>1:A:289:VAL:O</td>
<td>1:A:299:GLN:HA</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>1:A:7:THR:HG21</td>
<td>1:A:73:GLY:O</td>
<td>1.95</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:148:ALA:HB2</td>
<td>1:C:359:MET:HG2</td>
<td>1.76</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:183:VAL:HG13</td>
<td>1:C:235:TYR:OH</td>
<td>1.95</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:31:GLU:O</td>
<td>1:C:111:MET:HB2</td>
<td>1.93</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:373:MET:HA</td>
<td>1:C:375:TRP:NE1</td>
<td>2.08</td>
<td>0.67</td>
</tr>
<tr>
<td>1:D:176:CYS:HA</td>
<td>1:D:208:SER:O</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>1:D:267:ARG:HA</td>
<td>1:D:391:ALA:O</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>1:B:372:ASN:O</td>
<td>1:B:400:GLY:HA3</td>
<td>1.93</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:302:ILE:HA</td>
<td>1:C:306:ARG:O</td>
<td>1.95</td>
<td>0.67</td>
</tr>
<tr>
<td>1:A:224:ALA:HA</td>
<td>1:A:263:TYR:O</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>1:B:368:ASP:OD2</td>
<td>1:B:371:ALA:HB3</td>
<td>1.95</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:131:VAL:O</td>
<td>1:C:285:LYS:HA</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:37:ASN:HD21</td>
<td>1:C:180:LEU:HA</td>
<td>1.60</td>
<td>0.67</td>
</tr>
<tr>
<td>1:A:68:LYS:HG3</td>
<td>1:A:69:CYS:SG</td>
<td>2.35</td>
<td>0.67</td>
</tr>
<tr>
<td>1:B:155:MET:HG3</td>
<td>1:B:164:GLY:HA3</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>1:B:374:LEU:O</td>
<td>1:B:380:TYR:HB2</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>1:B:36:ALA:HA</td>
<td>1:B:39:ARG:HG3</td>
<td>1.74</td>
<td>0.66</td>
</tr>
<tr>
<td>1:D:35:ASP:HB2</td>
<td>1:D:109:TYR:OH</td>
<td>1.96</td>
<td>0.66</td>
</tr>
<tr>
<td>1:A:325:THR:OG1</td>
<td>1:A:327:GLU:HG2</td>
<td>1.95</td>
<td>0.66</td>
</tr>
</tbody>
</table>

Continued on next page...
### Atom-1  |  Atom-2  |  Interatomic distance (Å)  |  Clash overlap (Å)
--- | --- | --- | ---
1:A:122:LEU:HG  | 1:A:359:MET:HG3  | 1.76  | 0.66
1:C:207:GLY:O  | 1:C:237:VAL:HG13  | 1.95  | 0.66
1:D:71:ILE:HD12  | 1:D:167:TYR:HB3  | 1.76  | 0.66
1:D:251:ARG:HH11  | 1:D:251:ARG:HG3  | 1.60  | 0.66
1:B:36:ALA:HB2  | 1:B:169:THR:HG22  | 1.77  | 0.66
1:A:196:THR:HG23  | 4:A:511:HOH:O  | 1.94  | 0.66
1:A:83:ALA:HA  | 1:A:91:THR:O  | 1.96  | 0.66
1:D:401:VAL:O  | 1:D:405:VAL:HG22  | 1.95  | 0.66
1:A:64:ASP:O  | 1:A:68:LYS:HG2  | 1.96  | 0.66
1:B:154:GLY:HA2  | 1:B:157:SER:OG  | 1.96  | 0.66
1:C:384:LYS:HE3  | 1:C:387:GLN:HE22  | 1.60  | 0.66
1:D:264:ASN:ND2  | 1:D:267:ARG:H  | 1.94  | 0.66
1:B:94:PHE:HA  | 1:B:365:ILE:HG21  | 1.77  | 0.66
1:D:149:MET:HG2  | 1:D:171:TYR:HA  | 1.77  | 0.66
1:D:268:MET:O  | 1:D:313:PRO:HA  | 1.96  | 0.66
1:B:401:VAL:HG12  | 1:B:404:GLU:HB2  | 1.78  | 0.66
1:C:173:ASP:HB2  | 1:C:212:GLU:OE1  | 1.96  | 0.66
1:B:350:GLN:HA  | 1:B:353:ASN:OD1  | 1.95  | 0.65
1:B:376:LEU:HG  | 1:B:376:LEU:O  | 1.95  | 0.65
1:D:166:ARG:HD2  | 1:D:167:TYR:HE2  | 1.61  | 0.65
1:B:401:VAL:HG11  | 1:B:404:GLU:OE2  | 1.96  | 0.65
1:C:380:TYR:HE2  | 2:C:431:CBI:HO2'  | 1.44  | 0.65
1:C:349:GLU:O  | 1:C:352:ASN:HB2  | 1.95  | 0.65
1:D:155:MET:SD  | 1:D:164:GLY:HA2  | 2.36  | 0.65
1:D:230:CY3:HB2  | 1:D:232:THR:O  | 1.96  | 0.65
1:D:110:LEU:HD12  | 1:D:111:MET:N  | 2.12  | 0.65
1:A:2:ARG:HA  | 1:A:162:GLN:OE1  | 1.96  | 0.65
1:B:134:SER:OG  | 1:B:283:SER:HA  | 1.96  | 0.65
1:D:64:ASP:OD1  | 1:D:68:LYS:HD2  | 1.97  | 0.65
1:B:111:MET:HE2  | 1:B:116:LYS:O  | 1.97  | 0.64
1:C:39:ARG:HA  | 1:C:39:ARG:HH11  | 1.62  | 0.64
1:A:257:ASP:OD2  | 1:A:260:GLY:HA2  | 1.96  | 0.64
1:A:378:SER:O  | 1:A:392:ARG:HB2  | 1.97  | 0.64
1:D:134:SER:O  | 1:D:135:THR:HG23  | 1.98  | 0.64
1:C:307:LYS:HD3  | 1:D:304:ASP:HB3  | 1.79  | 0.64
1:B:141:ASN:HB3  | 1:B:366:TRP:NE1  | 2.12  | 0.64
1:C:306:ARG:HH21  | 1:D:305:GLY:N  | 1.94  | 0.64
1:A:146:PHE:HA  | 1:A:360:VAL:O  | 1.98  | 0.64
1:C:182:PHE:HA  | 1:C:186:LYS:O  | 1.97  | 0.64
1:B:76:ASP:OD1  | 1:C:76:ASP:HA  | 1.97  | 0.64

*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:91:THR:OG1</td>
<td>1:C:415:VAL:HB</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>1:B:275:GLY:HA3</td>
<td>1:B:278:LYS:HD2</td>
<td>1.80</td>
<td>0.64</td>
</tr>
<tr>
<td>1:B:81:TYR:HA</td>
<td>1:B:103:ASN:ND2</td>
<td>2.12</td>
<td>0.64</td>
</tr>
<tr>
<td>1:D:263:TYR:OH</td>
<td>1:D:313:PRO:HD3</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>1:A:133:LEU:HD11</td>
<td>1:A:286:PHE:HZ</td>
<td>1.63</td>
<td>0.64</td>
</tr>
<tr>
<td>1:A:340:ASN:O</td>
<td>1:A:344:GLU:HB2</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>1:A:257:ASP:OD1</td>
<td>1:A:341:ARG:HB3</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>1:C:40:TRP:O</td>
<td>1:C:71:ILE:HA</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>1:D:49:CYS:HA</td>
<td>1:D:58:ALA:HB3</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>1:D:13:PRO:O</td>
<td>1:D:85:THR:HG21</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>1:B:230:CYS:HB3</td>
<td>1:B:255:LYS:O</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>1:D:147:VAL:O</td>
<td>1:D:359:MET:HB3</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>1:D:264:ASN:HB3</td>
<td>1:D:267:ARG:HB3</td>
<td>1.80</td>
<td>0.64</td>
</tr>
<tr>
<td>1:A:61:THR:HB</td>
<td>1:A:190:GLU:OE1</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>1:B:205:PRO:HA</td>
<td>1:B:240:THR:HG23</td>
<td>1.80</td>
<td>0.63</td>
</tr>
<tr>
<td>1:B:227:PRO:HB2</td>
<td>1:B:351:LEU:HD11</td>
<td>1.80</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:39:ARG:HD2</td>
<td>1:C:167:TYR:HB3</td>
<td>1.80</td>
<td>0.63</td>
</tr>
<tr>
<td>1:B:183:VAL:HG21</td>
<td>1:B:206:TYR:O</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>1:B:48:ASN:OD1</td>
<td>1:C:99:GLU:HG3</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>1:B:21:ALA:HA</td>
<td>1:B:426:SER:HB3</td>
<td>1.81</td>
<td>0.63</td>
</tr>
<tr>
<td>1:B:117:TYR:HB2</td>
<td>1:B:151:GLU:HA</td>
<td>1.79</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:130:ASP:HA</td>
<td>1:C:286:PHE:O</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>1:A:146:PHE:O</td>
<td>1:A:147:VAL:HG13</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:95:VAL:HG22</td>
<td>1:C:104:VAL:HG22</td>
<td>1.79</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:353:ASN:O</td>
<td>1:C:357:VAL:HG23</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>1:D:295:ASN:H</td>
<td>1:D:352:ASN:HD21</td>
<td>1.46</td>
<td>0.63</td>
</tr>
<tr>
<td>1:B:31:GLU:O</td>
<td>1:B:31:GLU:HG2</td>
<td>1.99</td>
<td>0.63</td>
</tr>
<tr>
<td>1:D:329:CYS:O</td>
<td>1:D:332:MET:HB3</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:153:GLY:HA3</td>
<td>1:C:165:ALA:N</td>
<td>2.14</td>
<td>0.63</td>
</tr>
<tr>
<td>1:B:64:ASP:O</td>
<td>1:B:68:LYS:HB3</td>
<td>1.99</td>
<td>0.62</td>
</tr>
<tr>
<td>1:A:295:ASN:HA</td>
<td>1:A:348:PHE:CD2</td>
<td>2.34</td>
<td>0.62</td>
</tr>
<tr>
<td>1:B:88:ASP:HB2</td>
<td>1:B:418:ASN:H</td>
<td>1.63</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:288:VAL:HG13</td>
<td>1:C:299:GLN:NE2</td>
<td>2.14</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:35:ASP:OD2</td>
<td>1:C:37:ASN:HB2</td>
<td>1.99</td>
<td>0.62</td>
</tr>
<tr>
<td>1:D:149:MET:SD</td>
<td>1:D:171:TYR:HA</td>
<td>2.39</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:198:ASP:HB2</td>
<td>1:C:369:HIS:CD2</td>
<td>2.34</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:317:GLY:O</td>
<td>1:C:331:THR:HB</td>
<td>2.00</td>
<td>0.62</td>
</tr>
<tr>
<td>1:B:384:LYS:HD3</td>
<td>1:B:385:GLU:N</td>
<td>2.14</td>
<td>0.62</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:6:GLU:HA</td>
<td>4:B:507:HOH:O</td>
<td>1.98</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:195:SER:HB3</td>
<td>1:C:201:ALA:O</td>
<td>2.00</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:366:TRP:HB3</td>
<td>4:C:493:HOH:O</td>
<td>1.98</td>
<td>0.62</td>
</tr>
<tr>
<td>1:D:31:GLU:HG3</td>
<td>1:D:111:MET:HB2</td>
<td>1.81</td>
<td>0.62</td>
</tr>
<tr>
<td>1:B:286:PHE:HB3</td>
<td>1:B:303:GLN:NE2</td>
<td>2.14</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:115:ASP:HA</td>
<td>1:C:166:ARG:HG2</td>
<td>1.82</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:141:ASN:HB2</td>
<td>1:C:373:MET:SD</td>
<td>2.40</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:144:LEU:HD21</td>
<td>1:A:361:LEU:HD11</td>
<td>1.80</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:343:GLU:HG2</td>
<td>1:A:347:GLY:HA2</td>
<td>1.81</td>
<td>0.61</td>
</tr>
<tr>
<td>1:C:95:VAL:HA</td>
<td>1:C:103:ASN:O</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>1:C:265:PRO:HG3</td>
<td>1:C:310:ILE:HG23</td>
<td>1.80</td>
<td>0.61</td>
</tr>
<tr>
<td>1:C:136:VAL:HG22</td>
<td>1:C:413:GLN:O</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>1:D:203:VAL:HG12</td>
<td>1:D:204:GLY:O</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:286:PHE:HB3</td>
<td>1:A:303:GLN:NE2</td>
<td>2.15</td>
<td>0.61</td>
</tr>
<tr>
<td>1:C:420:ARG:HD2</td>
<td>1:C:427:THR:HB</td>
<td>1.82</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:4:GLY:HA2</td>
<td>1:A:70:MET:SD</td>
<td>2.40</td>
<td>0.61</td>
</tr>
<tr>
<td>1:C:232:THR:HG22</td>
<td>1:C:234:GLU:HG2</td>
<td>1.83</td>
<td>0.61</td>
</tr>
<tr>
<td>1:C:18:ARG:HB3</td>
<td>1:C:26:GLN:HG2</td>
<td>1.82</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:84:SER:O</td>
<td>1:A:90:LEU:HA</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>1:D:179:ASP:HB3</td>
<td>1:D:247:TYR:CE1</td>
<td>2.36</td>
<td>0.61</td>
</tr>
<tr>
<td>1:D:34:ILE:HG23</td>
<td>1:D:35:ASP:O</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:141:ASN:HB3</td>
<td>1:A:366:TRP:NE1</td>
<td>2.15</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:264:ASN:HB3</td>
<td>1:A:267:ARG:HB2</td>
<td>1.83</td>
<td>0.61</td>
</tr>
<tr>
<td>1:C:92:LEU:O</td>
<td>1:C:413:GLN:HA</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>1:D:163:ALA:HB3</td>
<td>1:D:169:THR:HG21</td>
<td>1.82</td>
<td>0.61</td>
</tr>
<tr>
<td>1:D:396:PRO:HD2</td>
<td>1:D:399:SER:HB2</td>
<td>1.82</td>
<td>0.61</td>
</tr>
<tr>
<td>1:D:50:TYR:O</td>
<td>1:D:51:ASP:HB2</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>1:C:89:ALA:HB2</td>
<td>1:C:417:SER:HB3</td>
<td>1.81</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:114:PRO:O</td>
<td>1:A:166:ARG:HB2</td>
<td>2.00</td>
<td>0.60</td>
</tr>
<tr>
<td>1:A:377:ASP:HB2</td>
<td>1:A:395:CYS:SG</td>
<td>2.41</td>
<td>0.60</td>
</tr>
<tr>
<td>1:B:315:TRP:CH2</td>
<td>1:B:388:PRO:HB3</td>
<td>2.37</td>
<td>0.60</td>
</tr>
<tr>
<td>1:C:22:PRO:HG3</td>
<td>1:C:425:GLY:O</td>
<td>2.00</td>
<td>0.60</td>
</tr>
<tr>
<td>1:C:346:GLY:HA3</td>
<td>1:C:350:GLN:HB2</td>
<td>1.83</td>
<td>0.60</td>
</tr>
<tr>
<td>1:B:126:GLU:OE1</td>
<td>1:B:291:ARG:HG2</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>1:D:239:GLU:H</td>
<td>1:D:242:ASN:HD22</td>
<td>1.46</td>
<td>0.60</td>
</tr>
<tr>
<td>1:A:336:PHE:CD1</td>
<td>1:A:388:PRO:HB2</td>
<td>2.37</td>
<td>0.60</td>
</tr>
<tr>
<td>1:A:380:TYR:CD1</td>
<td>1:A:382:PRO:HD3</td>
<td>2.36</td>
<td>0.60</td>
</tr>
<tr>
<td>1:A:50:TYR:HA</td>
<td>1:A:55:TRP:HA</td>
<td>1.82</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:A:73:GLY:O</td>
<td>1:D:99:GLU:HG3</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>1:B:267:ARG:HG2</td>
<td>1:B:389:GLY:HA2</td>
<td>1.83</td>
<td>0.60</td>
</tr>
<tr>
<td>1:C:34:ILE:HG22</td>
<td>1:C:77:TYR:OH</td>
<td>2.02</td>
<td>0.60</td>
</tr>
<tr>
<td>1:D:206:TYR:CD2</td>
<td>1:D:239:GLU:HG3</td>
<td>2.36</td>
<td>0.60</td>
</tr>
<tr>
<td>1:A:188:ASN:OD1</td>
<td>1:A:206:TYR:HB2</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>1:C:41:LEU:HG</td>
<td>1:C:71:ILE:HG22</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>1:A:55:TRP:HB3</td>
<td>1:A:189:ILE:HD12</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>1:C:155:MET:HG3</td>
<td>1:C:161:ASN:O</td>
<td>2.02</td>
<td>0.60</td>
</tr>
<tr>
<td>1:C:264:ASN:O</td>
<td>1:C:268:MET:HG2</td>
<td>2.02</td>
<td>0.60</td>
</tr>
<tr>
<td>1:A:110:LEU:HD12</td>
<td>1:A:111:MET:H</td>
<td>1.67</td>
<td>0.60</td>
</tr>
<tr>
<td>1:A:1:PCA:HG2</td>
<td>1:A:71:ILE:HD11</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>1:A:357:VAL:HG12</td>
<td>1:A:358:PRO:HD2</td>
<td>1.83</td>
<td>0.59</td>
</tr>
<tr>
<td>1:B:255:LYS:HG2</td>
<td>4:B:578:HOH:O</td>
<td>2.01</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:133:LEU:HD11</td>
<td>1:C:286:PHE:CZ</td>
<td>2.37</td>
<td>0.59</td>
</tr>
<tr>
<td>1:B:301:PHE:O</td>
<td>1:B:307:LYS:HG2</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:106:SER:HG</td>
<td>1:C:108:PHE:HE1</td>
<td>1.50</td>
<td>0.59</td>
</tr>
<tr>
<td>1:D:125:ASN:HB3</td>
<td>1:D:422:GLY:O</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:D:182:PHE:O</td>
<td>1:D:183:VAL:HG23</td>
<td>2.01</td>
<td>0.59</td>
</tr>
<tr>
<td>1:A:377:ASP:O</td>
<td>1:A:395:CYS:HB2</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:B:144:LEU:HD23</td>
<td>1:B:362:VAL:O</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:B:42:HIS:ND1</td>
<td>1:B:46:MET:HA</td>
<td>2.17</td>
<td>0.59</td>
</tr>
<tr>
<td>1:D:385:GLU:O</td>
<td>1:D:387:GLN:HG3</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:D:375:TRP:CH2</td>
<td>2:D:431:CBI:H5</td>
<td>2.37</td>
<td>0.59</td>
</tr>
<tr>
<td>1:A:119:MET:HA</td>
<td>1:A:359:MET:O</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:D:107:ARG:HH11</td>
<td>2:D:432:CBI:H2'</td>
<td>1.67</td>
<td>0.59</td>
</tr>
<tr>
<td>1:B:35:ASP:O</td>
<td>1:B:38:TRP:HB2</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:183:VAL:HG13</td>
<td>1:C:208:SER:OG</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>1:A:34:ILE:HG23</td>
<td>1:A:35:ASP:O</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:B:179:ASP:HB3</td>
<td>1:B:247:TYR:CE2</td>
<td>2.38</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:122:LEU:HD23</td>
<td>1:C:292:PHE:CD2</td>
<td>2.38</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:183:VAL:O</td>
<td>1:C:186:LYS:HG2</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:225:PHE:O</td>
<td>1:C:262:ASP:HA</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:307:LYS:HB2</td>
<td>1:C:430:PHE:CE2</td>
<td>2.38</td>
<td>0.59</td>
</tr>
<tr>
<td>1:D:17:GLN:O</td>
<td>1:D:420:ARG:HA</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>1:A:1:PCA:HA</td>
<td>1:A:66:ALA:O</td>
<td>2.02</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:11:HIS:HB3</td>
<td>1:B:31:GLU:HG3</td>
<td>1.83</td>
<td>0.58</td>
</tr>
<tr>
<td>1:A:288:VAL:HG22</td>
<td>1:A:301:PHE:HE2</td>
<td>1.67</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:122:LEU:HD11</td>
<td>1:B:146:PHE:CE1</td>
<td>2.37</td>
<td>0.58</td>
</tr>
<tr>
<td>1:A:147:VAL:HG12</td>
<td>1:A:212:GLU:HA</td>
<td>1.83</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:213:ILE:HG21</td>
<td>1:B:292:PHE:HE2</td>
<td>1.68</td>
<td>0.58</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:C:126:GLU:OE1</td>
<td>1:C:424:ILE:HA</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:265:PRO:O</td>
<td>1:B:270:ASN:HB2</td>
<td>2.02</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:353:ASN:HA</td>
<td>1:B:356:ARG:HG3</td>
<td>1.85</td>
<td>0.58</td>
</tr>
<tr>
<td>1:D:47:GLN:HG2</td>
<td>1:D:58:ALA:HB2</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:30:ALA:HB1</td>
<td>1:B:111:MET:O</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:291:ARG:HD3</td>
<td>1:C:424:ILE:HG23</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>1:D:295:ARG:O</td>
<td>1:C:235:TYR:HA</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>1:A:142:SER:HA</td>
<td>1:A:364:SER:O</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>1:A:251:ARG:NH2</td>
<td>1:A:311:STR:HA</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>1:A:33:VAL:O</td>
<td>1:A:108:PHE:HA</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>1:D:132:ASP:OD1</td>
<td>1:D:134:SER:HB3</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>1:D:155:MET:CE</td>
<td>1:D:164:GLY:HA2</td>
<td>2.34</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:209:CYS:HB2</td>
<td>1:B:236:HIS:NE2</td>
<td>2.18</td>
<td>0.58</td>
</tr>
<tr>
<td>1:A:251:ARG:NH2</td>
<td>2:A:431:CB:1H2</td>
<td>2.17</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:111:MET:HE1</td>
<td>1:B:165:ALA:HB1</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>1:B:231:THR:HG23</td>
<td>1:B:345:VAL:HB</td>
<td>1.85</td>
<td>0.58</td>
</tr>
<tr>
<td>1:C:341:ARG:HG3</td>
<td>1:C:341:ARG:O</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>1:D:144:LEU:O</td>
<td>1:D:144:LEU:HD23</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>1:D:155:MET:HG3</td>
<td>1:D:161:ASN:O</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>1:C:306:ARG:NH2</td>
<td>1:D:305:GLY:H</td>
<td>2.00</td>
<td>0.58</td>
</tr>
<tr>
<td>1:A:250:ASP:HB3</td>
<td>1:A:253:ALA:HB2</td>
<td>1.85</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:225:PHE:CZ</td>
<td>1:B:297:LEU:HD23</td>
<td>2.39</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:368:ASP:CB</td>
<td>1:B:373:MET:HE2</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:211:ALA:HB2</td>
<td>1:C:233:ASN:OD1</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:D:31:GLU:OE2</td>
<td>1:D:114:PRO:HD3</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:143:ALA:CB</td>
<td>1:C:217:GLU:HA</td>
<td>2.33</td>
<td>0.57</td>
</tr>
<tr>
<td>1:A:29:ASN:HD22</td>
<td>1:A:29:ASN:N</td>
<td>2.01</td>
<td>0.57</td>
</tr>
<tr>
<td>1:A:307:LYS:HD3</td>
<td>1:A:430:PHE:HB3</td>
<td>1.86</td>
<td>0.57</td>
</tr>
<tr>
<td>1:A:90:LEU:HD12</td>
<td>1:A:91:THR:H</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:122:LEU:HD21</td>
<td>1:B:146:PHE:CD1</td>
<td>2.39</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:149:MET:HB2</td>
<td>1:B:360:VAL:HG21</td>
<td>1.85</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:128:ALA:CB</td>
<td>1:B:289:VAL:HG22</td>
<td>2.35</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:327:GLU:O</td>
<td>1:B:331:THR:HG23</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:D:163:ALA:HB1</td>
<td>1:D:167:TYR:CB</td>
<td>2.34</td>
<td>0.57</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:B:151:GLU:O</td>
<td>1:B:151:GLU:HG2</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:105:GLY:HA2</td>
<td>1:B:365:ILE:CG2</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:325:THR:HG2</td>
<td>4:C:453:HOH:O</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:335:VAL:HG12</td>
<td>1:B:336:PHE:HD1</td>
<td>1.70</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:127:LEU:HG</td>
<td>1:C:128:ALA:H</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>1:D:35:ASP:HB2</td>
<td>1:D:109:TYR:CZ</td>
<td>2.39</td>
<td>0.57</td>
</tr>
<tr>
<td>1:A:351:LEU:O</td>
<td>1:A:355:LEU:HG</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:381:PRO:HB2</td>
<td>1:C:383:GLU:OE2</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>1:A:177:ALA:HB1</td>
<td>1:A:180:LEU:HG</td>
<td>1.85</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:121:ASN:O</td>
<td>1:C:421:PHE:HZ</td>
<td>1.88</td>
<td>0.57</td>
</tr>
<tr>
<td>1:B:335:VAL:HG12</td>
<td>1:B:336:PHE:CD1</td>
<td>2.39</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:296:LYS:HD2</td>
<td>1:C:323:GLU:OE2</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:401:VAL:CG1</td>
<td>1:C:404:GLU:HB2</td>
<td>2.35</td>
<td>0.57</td>
</tr>
<tr>
<td>1:D:264:ASN:ND2</td>
<td>1:D:266:TYR:HB3</td>
<td>2.18</td>
<td>0.57</td>
</tr>
<tr>
<td>1:A:202:GLY:O</td>
<td>1:A:203:VAL:HG23</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:77:TYR:HB3</td>
<td>1:A:83:ALA:HB3</td>
<td>1.86</td>
<td>0.56</td>
</tr>
<tr>
<td>1:C:295:ASN:H</td>
<td>1:C:352:ASN:HD21</td>
<td>1.52</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:295:ASN:HA</td>
<td>1:B:348:PHE:CE2</td>
<td>2.40</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:301:PHE:HB2</td>
<td>1:B:308:ILE:HB</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:144:LEU:HA</td>
<td>1:B:362:VAL:O</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:3:ALA:HB1</td>
<td>1:D:167:TYR:OH</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:39:ARG:HA</td>
<td>1:D:99:GLU:OE2</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:112:ASN:O</td>
<td>1:A:116:LYS:HD2</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:257:ASP:CB</td>
<td>1:A:341:ARG:HG2</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:213:ILE:HG21</td>
<td>1:B:292:PHE:CE2</td>
<td>2.41</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:292:PHE:CB</td>
<td>1:B:355:LEU:HD11</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:217:GLU:O</td>
<td>1:B:376:LEU:HD11</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:155:MET:HG3</td>
<td>1:A:161:ASN:O</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:42:HIS:HB2</td>
<td>1:B:47:GLN:O</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:71:ILE:HD11</td>
<td>1:B:163:ALA:CB</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:111:MET:CE</td>
<td>1:D:114:PRO:HA</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:423:PRO:HD2</td>
<td>1:D:426:SER:OG</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:265:PRO:HA</td>
<td>1:D:268:MET:HB2</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:18:ARG:HA</td>
<td>1:D:421:PHE:O</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:81:TYR:O</td>
<td>1:D:96:THR:HG21</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:195:SER:HB3</td>
<td>1:D:198:ASP:HB3</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:178:ARG:HB2</td>
<td>1:A:247:TYR:HB2</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:350:GLN:O</td>
<td>1:B:350:GLN:HG3</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:372:ASN:HD22</td>
<td>1:D:402:PRO:HD3</td>
<td>1.71</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:125:ASN:HD22</td>
<td>1:D:423:PRO:CA</td>
<td>2.19</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:D:61:THR:HG22</td>
<td>1:D:190:GLU:OE1</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:215:VAL:HG22</td>
<td>1:D:225:PHE:CE2</td>
<td>2.40</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:133:LEU:HD11</td>
<td>1:A:286:PHE:CE2</td>
<td>2.40</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:288:VAL:HG22</td>
<td>1:A:301:PHE:CE2</td>
<td>2.40</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:368:ASP:O</td>
<td>1:B:372:ASN:HA</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:42:HIS:CE1</td>
<td>1:B:46:MET:HA</td>
<td>2.41</td>
<td>0.56</td>
</tr>
<tr>
<td>1:B:9:GLU:OE2</td>
<td>1:B:9:GLU:HA</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>1:D:2:ARG:HE</td>
<td>1:D:67:GLU:HA</td>
<td>1.71</td>
<td>0.56</td>
</tr>
<tr>
<td>1:C:122:LEU:HB3</td>
<td>1:C:292:PHE:CG</td>
<td>2.41</td>
<td>0.55</td>
</tr>
<tr>
<td>1:A:281:ASP:OD2</td>
<td>1:A:284:ARG:HD2</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:135:THR:O</td>
<td>1:B:412:ALA:HB1</td>
<td>2.05</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:301:PHE:O</td>
<td>1:B:307:LYS:HA</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:125:ASN:HB3</td>
<td>1:C:422:GLY:O</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:132:ASP:HB3</td>
<td>1:D:415:VAL:CG1</td>
<td>2.37</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:141:ASN:O</td>
<td>1:D:365:ILE:HA</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:182:PHE:CE1</td>
<td>1:C:187:ALA:HB2</td>
<td>2.42</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:391:ALA:HB3</td>
<td>4:D:549:HOH:O</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:130:ASP:HA</td>
<td>1:B:286:PHE:O</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:110:LEU:HD23</td>
<td>1:C:361:LEU:O</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:265:PRO:CA</td>
<td>1:C:270:ASN:HD22</td>
<td>2.17</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:233:ASN:OD1</td>
<td>1:C:354:ALA:HB2</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:66:ALA:HB1</td>
<td>1:C:160:SER:OG</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:95:VAL:CG2</td>
<td>1:C:104:VAL:HG22</td>
<td>2.36</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:163:ALA:O</td>
<td>1:B:166:ARG:HD2</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:340:ASN:OD1</td>
<td>1:C:343:GLU:HB2</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:379:ILE:HB</td>
<td>1:B:397:THR:CG2</td>
<td>2.37</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:401:VAL:CG1</td>
<td>1:B:404:GLU:HB2</td>
<td>2.35</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:21:ALA:HB3</td>
<td>1:D:24:ASN:ND2</td>
<td>2.04</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:342:PHE:CEZ</td>
<td>1:D:348:PHE:HA</td>
<td>2.41</td>
<td>0.55</td>
</tr>
<tr>
<td>1:A:324:ILE:HG22</td>
<td>1:A:348:PHE:CE2</td>
<td>2.42</td>
<td>0.55</td>
</tr>
<tr>
<td>1:A:37:ASN:ND2</td>
<td>2:A:432:CBI:H6'2</td>
<td>2.22</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:175:GLN:HE22</td>
<td>3:B:431:CTT:H4C</td>
<td>1.72</td>
<td>0.55</td>
</tr>
<tr>
<td>1:B:297:LEU:HB2</td>
<td>1:B:324:ILE:HB</td>
<td>1.88</td>
<td>0.55</td>
</tr>
</tbody>
</table>

Continued on next page...
### Interatomic distances and clash overlap

<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:233:ASN:HB2</td>
<td>1:B:357:VAL:HG21</td>
<td>1.88</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:109:TYR:CD1</td>
<td>1:D:362:VAL:HG22</td>
<td>2.42</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:377:ASP:HB2</td>
<td>1:D:395:CYS:SG</td>
<td>2.47</td>
<td>0.55</td>
</tr>
<tr>
<td>1:D:95:VAL:CG1</td>
<td>1:D:97:LYS:HE2</td>
<td>2.37</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:263:TYR:CZ</td>
<td>1:C:322:SER:HA</td>
<td>2.41</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:318:MET:CE</td>
<td>1:C:332:MET:HA</td>
<td>2.37</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:292:PHE:HB3</td>
<td>1:C:355:LEU:CD2</td>
<td>2.37</td>
<td>0.54</td>
</tr>
<tr>
<td>1:D:267:ARG:HG2</td>
<td>1:D:267:ARG:O</td>
<td>2.06</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:350:GLN:O</td>
<td>1:A:353:ASN:HB2</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:223:PHE:O</td>
<td>1:B:264:ASN:HB2</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:175:GLN:OE1</td>
<td>1:B:258:ALA:HB1</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:267:ARG:HB3</td>
<td>1:B:268:MET:CE</td>
<td>2.37</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:13:PRO:HA</td>
<td>1:B:31:GLU:CB</td>
<td>2.37</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:374:LEU:HD21</td>
<td>1:B:397:THR:HA</td>
<td>1.88</td>
<td>0.54</td>
</tr>
<tr>
<td>1:D:206:TYR:CE2</td>
<td>1:D:239:GLU:HG3</td>
<td>2.42</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:55:TRP:CE3</td>
<td>1:A:189:ILE:HD12</td>
<td>2.43</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:50:TYR:HD1</td>
<td>1:B:55:TRP:HA</td>
<td>1.72</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:122:LEU:CD2</td>
<td>1:B:213:ILE:HD13</td>
<td>2.38</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:128:ALA:HA</td>
<td>1:C:288:VAL:O</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:306:ARG:HE</td>
<td>1:D:305:GLY:N</td>
<td>2.05</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:369:HIS:HA</td>
<td>1:C:402:PRO:HG3</td>
<td>1.90</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:94:PHE:CE2</td>
<td>1:C:95:VAL:HG23</td>
<td>2.42</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:109:TYR:CD1</td>
<td>1:C:362:VAL:HG13</td>
<td>2.42</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:229:ALA:HB1</td>
<td>1:C:233:ASN:OD1</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:141:ASN:OD1</td>
<td>1:A:143:ALA:HB2</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:333:PHE:CE2</td>
<td>1:A:340:ASN:HA</td>
<td>2.43</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:59:CYS:HB3</td>
<td>1:B:189:ILE:CD1</td>
<td>2.36</td>
<td>0.54</td>
</tr>
<tr>
<td>1:D:198:ASP:OD1</td>
<td>1:D:201:ALA:HB3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:D:289:VAL:HB</td>
<td>1:D:300:TYR:CE2</td>
<td>2.43</td>
<td>0.54</td>
</tr>
<tr>
<td>1:D:291:ARG:CG</td>
<td>1:D:298:SER:HB3</td>
<td>2.34</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:17:GLN:HG2</td>
<td>1:A:17:GLN:O</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:41:LEU:HD12</td>
<td>1:A:49:CYS:HB2</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:14:LEU:HD12</td>
<td>1:C:15:THR:H</td>
<td>1.73</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:230:CYS:HB3</td>
<td>1:C:256:CYS:HA</td>
<td>1.90</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:6:GLU:HB3</td>
<td>1:C:72:GLU:OE2</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:175:GLN:HE21</td>
<td>3:B:431:CTT:HA1D</td>
<td>1.72</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:82:GLY:HA3</td>
<td>1:B:93:LYS:HB3</td>
<td>1.88</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:198:ASP:HB2</td>
<td>1:C:369:HIS:NE2</td>
<td>2.23</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:197:SER:O</td>
<td>1:A:199:PRO:HD3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:65:CYS:HA</td>
<td>1:A:68:LYS:HG2</td>
<td>1.90</td>
<td>0.54</td>
</tr>
<tr>
<td>1:B:112:ASN:HB2</td>
<td>1:B:118:GLN:OE1</td>
<td>2.07</td>
<td>0.54</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:B:95:VAL:HG22</td>
<td>1:B:104:VAL:HG22</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:217:GLU:O</td>
<td>1:A:223:PHE:HB2</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:36:ALA:HA</td>
<td>1:A:39:ARG:HD2</td>
<td>1.88</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:82:GLY:O</td>
<td>1:A:93:LYS:HG3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:92:LEU:HD22</td>
<td>1:B:106:SER:HB3</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:287:THR:HB</td>
<td>1:B:302:ILE:HB</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:333:PHE:CD2</td>
<td>1:B:340:ASN:HA</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:107:ARG:HA</td>
<td>1:D:364:SER:HB3</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:272:ASP:HA</td>
<td>1:D:278:LYS:HD3</td>
<td>1.88</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:27:THR:HG23</td>
<td>1:D:29:ASN:ND2</td>
<td>2.21</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:319:PRO:CG</td>
<td>1:A:327:GLU:HG3</td>
<td>2.38</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:19:CYS:HA</td>
<td>1:B:25:CYS:HA</td>
<td>1.88</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:31:GLU:HG3</td>
<td>1:C:111:MET:CE</td>
<td>2.38</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:11:HIS:CD2</td>
<td>1:D:33:VAL:HB</td>
<td>2.44</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:372:ASN:HB3</td>
<td>1:A:400:GLY:HA3</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:123:MET:HE3</td>
<td>1:B:356:ARG:HH21</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:384:LYS:HA</td>
<td>1:B:384:LYS:HE2</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:127:LEU:HD12</td>
<td>1:B:420:ARG:O</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:111:MET:HE1</td>
<td>1:A:166:ARG:HA</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:34:ILE:HG12</td>
<td>1:B:108:PHE:CE1</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:135:THR:HG22</td>
<td>1:C:412:ALA:HA</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:149:MET:CG</td>
<td>1:D:171:TYR:HA</td>
<td>2.39</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:58:ALA:O</td>
<td>1:D:68:LYS:HD3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:372:ASN:O</td>
<td>1:A:400:GLY:HA3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:82:GLY:O</td>
<td>1:A:93:LYS:HD2</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:46:MET:HB3</td>
<td>4:A:526:HOH:O</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:142:SER:HB2</td>
<td>1:B:414:VAL:HG11</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:178:ARG:HB3</td>
<td>1:B:178:ARG:HH11</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:377:ASP:O</td>
<td>1:D:395:CYS:HB2</td>
<td>2.07</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:77:TYR:O</td>
<td>1:D:81:TYR:HB2</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:37:ASN:O</td>
<td>2:A:432:CBI:H3</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:99:GLU:HG3</td>
<td>1:D:40:TRP:CD1</td>
<td>2.42</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:22:PRO:CD</td>
<td>1:B:426:SER:HA</td>
<td>2.38</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:68:LYS:O</td>
<td>1:B:68:LYS:HG3</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:297:LEU:HB2</td>
<td>1:D:324:ILE:HB</td>
<td>1.89</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:65:CY5:HB3</td>
<td>1:D:182:PHE:CZ</td>
<td>2.44</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:286:PHE:HB3</td>
<td>1:C:303:GLN:HG3</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:319:PRO:CG</td>
<td>1:C:328:LEU:HD23</td>
<td>2.39</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:40:TRP:O</td>
<td>1:D:72:GLU:HG2</td>
<td>2.09</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:A:38:TRP:CE2</td>
<td>2:A:432:CBI:H5</td>
<td>2.44</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:193:LYS:HA</td>
<td>4:B:501:HOH:O</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:226:THR:OG1</td>
<td>1:B:262:ASP:HB2</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:130:ASP:OD2</td>
<td>1:C:418:ASN:HB3</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:188:ASN:O</td>
<td>1:C:192:TRP:HE3</td>
<td>1.92</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:193:LYS:HB2</td>
<td>1:C:203:VAL:HB</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:198:ASP:HB3</td>
<td>1:C:201:ALA:HB3</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:384:LYS:CE</td>
<td>1:C:387:GLN:HE22</td>
<td>2.21</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:20:THR:OG1</td>
<td>1:D:24:ASN:HB3</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:92:LEU:HB2</td>
<td>1:D:414:VAL:CG1</td>
<td>2.38</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:13:PRO:HA</td>
<td>1:C:31:GLU:HB3</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:384:LYS:CD</td>
<td>1:C:387:GLN:HE22</td>
<td>2.22</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:122:LEU:HD11</td>
<td>1:D:146:PHE:CD1</td>
<td>2.44</td>
<td>0.53</td>
</tr>
<tr>
<td>1:D:92:LEU:O</td>
<td>1:D:413:GLN:HB2</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:B:229:ALA:HB3</td>
<td>4:B:557:HOH:O</td>
<td>2.07</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:133:LEU:O</td>
<td>1:C:220:ALA:HB2</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>1:B:146:PHE:HE2</td>
<td>1:B:361:LEU:HB2</td>
<td>1.73</td>
<td>0.52</td>
</tr>
<tr>
<td>1:D:266:TYR:HB2</td>
<td>4:D:512:HOH:O</td>
<td>2.08</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:336:PHE:HD1</td>
<td>1:A:388:PRO:HB2</td>
<td>1.75</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:143:ALA:HA</td>
<td>1:C:216:TRP:O</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:341:ARG:O</td>
<td>1:C:344:GLU:HB3</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:369:HIS:CE1</td>
<td>1:C:402:PRO:HB3</td>
<td>2.43</td>
<td>0.52</td>
</tr>
<tr>
<td>1:B:141:ASN:HD21</td>
<td>1:B:217:GLU:HB3</td>
<td>1.75</td>
<td>0.52</td>
</tr>
<tr>
<td>1:B:92:LEU:HD22</td>
<td>1:B:106:SER:CB</td>
<td>2.39</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:288:VAL:HG22</td>
<td>1:C:301:PHE:CE2</td>
<td>2.45</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:50:TYR:CA</td>
<td>1:A:56:THR:HG23</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>1:B:274:TYR:CD1</td>
<td>1:B:280:LEU:HD12</td>
<td>2.45</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:120:PHE:HB2</td>
<td>1:C:146:PHE:CE2</td>
<td>2.44</td>
<td>0.52</td>
</tr>
<tr>
<td>1:D:213:ILE:O</td>
<td>1:D:213:ILE:HG22</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:86:SER:HB3</td>
<td>1:A:89:ALA:HB3</td>
<td>1.92</td>
<td>0.52</td>
</tr>
<tr>
<td>1:D:2:ARG:HB2</td>
<td>1:D:70:MET:HB3</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>1:B:1:PCA:O</td>
<td>1:B:162:GLN:HG3</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:147:VAL:HG12</td>
<td>1:C:212:GLU:CB</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>1:B:379:ILE:HB</td>
<td>1:B:397:THR:HG21</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:144:LEU:HD11</td>
<td>1:C:361:LEU:HD21</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:226:THR:HG22</td>
<td>1:A:228:HIS:CD2</td>
<td>2.45</td>
<td>0.52</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:176:CYS:O</td>
<td>1:B:178:ARG:HG2</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>1:B:420:ARG:HB2</td>
<td>1:B:427:THR:CG2</td>
<td>2.38</td>
<td>0.52</td>
</tr>
<tr>
<td>1:D:95:VAL:HG11</td>
<td>1:D:97:LYS:HE2</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>1:D:12:PRO:HD2</td>
<td>1:D:32:VAL:O</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:41:LEU:O</td>
<td>1:A:48:ASN:HA</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:19:CYS:HB3</td>
<td>1:C:24:ASN:O</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:132:ASP:HB3</td>
<td>1:A:415:VAL:CG2</td>
<td>2.40</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:20:THR:HG23</td>
<td>1:A:24:ASN:O</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:287:THR:O</td>
<td>1:A:301:PHE:HA</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:324:ILE:HG2</td>
<td>1:A:348:PHE:CE1</td>
<td>2.45</td>
<td>0.51</td>
</tr>
<tr>
<td>1:B:172:CYS:HB2</td>
<td>1:B:209:CYS:O</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:B:345:VAL:HG23</td>
<td>1:B:345:VAL:O</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:B:10:ASN:O</td>
<td>1:B:77:TYR:HE1</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:34:ILE:HD12</td>
<td>1:C:108:PHE:CZ</td>
<td>2.46</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:139:GLY:HA2</td>
<td>1:D:373:MET:HB3</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:143:ALA:HA</td>
<td>1:D:216:TRP:O</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:299:GLN:O</td>
<td>1:D:299:GLN:HG2</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:41:LEU:O</td>
<td>1:D:42:HIS:HB3</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:198:ASP:HB3</td>
<td>1:A:201:ALA:HB3</td>
<td>1.91</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:131:VAL:HG22</td>
<td>1:C:133:LEU:HG</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:193:LYS:HD2</td>
<td>1:C:203:VAL:CG1</td>
<td>2.40</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:211:ALA:CB</td>
<td>1:D:233:ASN:HB3</td>
<td>2.39</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:31:GLU:HG3</td>
<td>1:C:111:MET:HE3</td>
<td>1.91</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:4:GLY:HA3</td>
<td>1:D:72:GLU:OE2</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:80:THR:HG23</td>
<td>1:D:98:HIS:CD2</td>
<td>2.45</td>
<td>0.51</td>
</tr>
<tr>
<td>1:B:325:THR:HB</td>
<td>1:B:326:PRO:HD2</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>1:B:368:ASP:HB2</td>
<td>1:B:373:MET:HE2</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:147:VAL:HG23</td>
<td>1:C:149:MET:CG</td>
<td>2.40</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:166:ARG:HD2</td>
<td>1:D:167:TYR:CE2</td>
<td>2.45</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:47:GLN:CG</td>
<td>1:D:58:ALA:HB2</td>
<td>2.40</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:256:CYS:O</td>
<td>1:A:341:ARG:HD3</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:163:ALA:HB1</td>
<td>1:C:167:TYR:CD2</td>
<td>2.45</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:319:PRO:HG3</td>
<td>1:C:328:LEU:HA</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:92:LEU:HD22</td>
<td>4:C:490:HOH:O</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:310:ILE:HG23</td>
<td>1:D:311:PRO:HD2</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>1:B:232:THR:HG2</td>
<td>1:B:232:THR:O</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:B:377:ASP:HB2</td>
<td>1:B:395:CYS:SG</td>
<td>2.50</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:373:MET:HG2</td>
<td>1:C:376:LEU:HD22</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:80:THR:HB</td>
<td>1:C:81:TYR:CD2</td>
<td>2.46</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:396:PRO:HD2</td>
<td>1:D:399:SER:CB</td>
<td>2.41</td>
<td>0.51</td>
</tr>
<tr>
<td>1:B:122:LEU:HD21</td>
<td>1:B:146:PHE:HD1</td>
<td>1.76</td>
<td>0.51</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:136:VAL:HG23</td>
<td>1:B:413:GLN:O</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:153:GLY:HA3</td>
<td>1:C:165:ALA:H</td>
<td>1.76</td>
<td>0.51</td>
</tr>
<tr>
<td>1:B:366:TRP:CG</td>
<td>3:B:431:CTT:H3E</td>
<td>2.46</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:178:ARG:HD3</td>
<td>1:C:248:SER:OG</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:37:ASN:ND2</td>
<td>1:C:180:LEU:HA</td>
<td>2.25</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:385:GLU:HG3</td>
<td>1:C:386:GLY:N</td>
<td>2.26</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:379:ILE:O</td>
<td>1:D:379:ILE:HG22</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:D:107:ARG:HD3</td>
<td>2:D:432:CBI:H2'</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:144:LEU:HD21</td>
<td>1:A:361:LEU:CD1</td>
<td>2.40</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:225:PHE:CE1</td>
<td>1:A:327:GLU:HG3</td>
<td>2.41</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:107:ARG:HA</td>
<td>1:B:363:MET:O</td>
<td>2.10</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:16:TRP:CD1</td>
<td>1:B:30:ALA:HB3</td>
<td>2.46</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:21:ALA:HB1</td>
<td>1:B:22:PRO:HD2</td>
<td>1.92</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:341:ARG:HB3</td>
<td>4:B:498:HOH:O</td>
<td>2.10</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:379:ILE:HG22</td>
<td>1:B:379:ILE:O</td>
<td>2.10</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:315:TRP:SZ2</td>
<td>1:B:388:PRO:HB3</td>
<td>2.46</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:125:ASN:HD22</td>
<td>1:C:422:GLY:C</td>
<td>2.15</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:14:LEU:HB3</td>
<td>1:C:32:VAL:HG22</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:295:ASN:HA</td>
<td>1:C:348:PHE:CE2</td>
<td>2.46</td>
<td>0.50</td>
</tr>
<tr>
<td>1:D:17:GLN:CG</td>
<td>1:D:420:ARG:HG2</td>
<td>2.40</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:122:LEU:O</td>
<td>1:A:125:ASN:HB2</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:7:THR:O</td>
<td>1:B:72:GLU:OE1</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:94:PHE:CD2</td>
<td>1:B:95:VAL:HG23</td>
<td>2.46</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:232:THR:HG22</td>
<td>1:C:234:GLU:CG</td>
<td>2.41</td>
<td>0.50</td>
</tr>
<tr>
<td>1:D:209:CYS:SG</td>
<td>1:D:238:CYS:HB3</td>
<td>2.52</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:173:ASP:HB2</td>
<td>1:A:212:GLU:HG3</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:268:MET:HA</td>
<td>1:B:315:TRP:CD1</td>
<td>2.47</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:233:ASN:O</td>
<td>1:B:357:VAL:HG11</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:129:PHE:O</td>
<td>1:A:130:ASP:OD1</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:34:ILE:HA</td>
<td>1:C:107:ARG:O</td>
<td>2.10</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:133:LEU:HD11</td>
<td>1:C:286:PHE:HZ</td>
<td>1.76</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:220:ALA:HB1</td>
<td>1:A:276:LYS:CE</td>
<td>2.41</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:209:CYS:HB2</td>
<td>1:A:236:HIS:CE1</td>
<td>2.47</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:186:LYS:O</td>
<td>1:B:187:ALA:O</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:262:ASP:OD1</td>
<td>1:B:262:ASP:O</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:287:THR:HG22</td>
<td>1:B:287:THR:O</td>
<td>2.10</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:289:VAL:O</td>
<td>1:B:299:GLN:HB2</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:242:ASN:O</td>
<td>1:C:254:GLY:HA2</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:D:401:VAL:HB</td>
<td>1:D:404:GLU:CB</td>
<td>2.40</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:294:GLU:OE1</td>
<td>1:A:352:ASN:OD1</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:346:GLY:O</td>
<td>1:A:347:GLY:O</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:401:VAL:O</td>
<td>1:A:405:VAL:HG22</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:143:ALA:HB1</td>
<td>1:B:216:TRP:O</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:197:SER:HB3</td>
<td>1:B:369:HIS:HB2</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:43:ASP:HB2</td>
<td>1:B:47:GLN:O</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:35:ASP:OD1</td>
<td>1:C:109:TYR:OH</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:96:THR:HG23</td>
<td>4:C:529:HOH:O</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:D:112:ASN:O</td>
<td>1:D:113:GLY:O</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:D:133:LEU:HD21</td>
<td>1:D:216:TRP:HZ2</td>
<td>1.77</td>
<td>0.50</td>
</tr>
<tr>
<td>1:D:59:CYS:HA</td>
<td>1:D:68:LYS:HD3</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:261:CYS:HB2</td>
<td>1:A:342:PHE:CD1</td>
<td>2.47</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:121:ASN:O</td>
<td>1:B:125:ASN:OD1</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:243:CYS:O</td>
<td>1:B:253:ALA:HB3</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:315:TRP:HB2</td>
<td>1:B:318:MET:SD</td>
<td>2.52</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:13:PRO:HA</td>
<td>1:B:31:GLU:HB2</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:188:ASN:HB2</td>
<td>1:C:192:TRP:HZ3</td>
<td>1.76</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:265:PRO:HA</td>
<td>1:C:270:ASN:ND2</td>
<td>2.21</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:289:VAL:O</td>
<td>1:C:289:VAL:HG12</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:349:GLU:OE2</td>
<td>1:C:352:ASN:OD1</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:110:LEU:HD23</td>
<td>1:C:361:LEU:HB3</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:155:MET:O</td>
<td>1:A:158:TYR:O</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:182:PHE:HB3</td>
<td>1:A:186:LYS:O</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:218:SER:O</td>
<td>1:A:219:ASN:HB3</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:20:THR:OG1</td>
<td>1:B:24:ASN:O</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:379:ILE:HD12</td>
<td>1:B:397:THR:HG23</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:157:SER:HG</td>
<td>1:C:158:TYR:HD2</td>
<td>1.60</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:264:ASN:HB3</td>
<td>1:C:267:ARG:HB2</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:295:ASN:OD1</td>
<td>1:C:352:ASN:OD1</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:228:HIS:HB3</td>
<td>1:A:257:ASP:O</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:178:ARG:HB3</td>
<td>1:B:178:ARG:NH1</td>
<td>2.27</td>
<td>0.50</td>
</tr>
<tr>
<td>1:B:354:ALA:HA</td>
<td>1:B:357:VAL:CG2</td>
<td>2.42</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:38:TRP:HZ2</td>
<td>1:C:106:SER:HA</td>
<td>2.47</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:206:TYR:HB3</td>
<td>1:C:237:VAL:CG1</td>
<td>2.42</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:379:ILE:HD11</td>
<td>4:C:533:HOH:O</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:D:237:VAL:HG12</td>
<td>1:D:237:VAL:O</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:D:380:TYR:HE2</td>
<td>2:D:431:CBI:HO2'</td>
<td>1.56</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:19:CYS:O</td>
<td>1:A:426:SER:OG</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:268:MET:SD</td>
<td>1:A:313:PRO:HB3</td>
<td>2.52</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:380:TYR:CD1</td>
<td>1:A:381:PRO:HA</td>
<td>2.46</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:B:123:MET:CE</td>
<td>1:B:356:ARG:HH21</td>
<td>2.25</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:179:ASP:HB3</td>
<td>1:B:247:TYR:CZ</td>
<td>2.47</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:29:ASN:O</td>
<td>1:B:30:ALA:O</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:41:LEU:HD23</td>
<td>1:B:71:ILE:CG2</td>
<td>2.41</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:193:LYS:CB</td>
<td>1:C:203:VAL:HB</td>
<td>2.42</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:216:TRP:HE1</td>
<td>1:C:218:SER:HG</td>
<td>1.59</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:255:GLY:O</td>
<td>1:D:251:ARG:HG3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:251:ARG:HG2</td>
<td>1:D:251:ARG:O</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:17:GLN:HG3</td>
<td>1:D:420:ARG:HG2</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:135:THR:OG1</td>
<td>1:A:135:THR:O</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:59:CYS:HB3</td>
<td>1:A:189:ILE:CD1</td>
<td>2.42</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:276:LYS:HD3</td>
<td>1:A:276:LYS:N</td>
<td>2.27</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:380:TYR:HB3</td>
<td>1:B:392:ARG:CZ</td>
<td>2.41</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:259:ASN:O</td>
<td>1:D:260:GLY:O</td>
<td>2.29</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:273:PHE:HA</td>
<td>1:A:279:THR:HB</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:233:ASN:OD1</td>
<td>1:A:354:ALA:HB2</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:267:ARG:HE</td>
<td>1:A:389:GLY:HA2</td>
<td>1.78</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:215:VAL:HA</td>
<td>1:B:225:PHE:CE2</td>
<td>2.47</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:378:SER:O</td>
<td>1:B:392:ARG:HD2</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:390:ALA:O</td>
<td>1:C:392:ARG:HD2</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:35:ASP:HB3</td>
<td>1:D:38:TRP:HZ3</td>
<td>2.47</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:263:TYR:OH</td>
<td>1:A:313:PRO:HD3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:357:VAL:O</td>
<td>1:A:359:MET:HG2</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:86:SER:CB</td>
<td>1:A:89:ALA:HB3</td>
<td>2.42</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:126:GLU:O</td>
<td>1:B:421:PHE:HA</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:204:GLY:O</td>
<td>1:C:205:PRO:O</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:215:VAL:HG21</td>
<td>1:D:292:PHE:HZ3</td>
<td>2.47</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:302:ILE:HG23</td>
<td>1:D:306:ARG:O</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:51:ASP:O</td>
<td>1:D:54:GLN:O</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:188:ASN:O</td>
<td>1:A:192:TRP:HE3</td>
<td>1.96</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:173:ASP:O</td>
<td>1:C:210:CYS:O</td>
<td>2.29</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:400:GLY:O</td>
<td>1:A:402:PRO:HD3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:64:ASP:OD2</td>
<td>1:A:68:LYS:HD2</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:127:LEU:HG</td>
<td>1:B:128:ALA:N</td>
<td>2.26</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:189:ILE:O</td>
<td>1:B:192:TRP:HB2</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:199:PRO:HG2</td>
<td>1:B:200:ASN:OD1</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:135:THR:OG1</td>
<td>1:B:412:ALA:HA</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:424:ILE:O</td>
<td>1:B:424:IPT:HG22</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:4:GLY:HA2</td>
<td>1:B:70:MET:CE</td>
<td>2.42</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:90:LEU:O</td>
<td>1:B:416:TRP:HD1</td>
<td>1.95</td>
<td>0.49</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:C:152:ASP:O</td>
<td>1:C:164:GLY:HA3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:214:ASP:OD1</td>
<td>1:C:217:GLU:OE1</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:159:PRO:O</td>
<td>1:D:162:GLN:OE1</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:372:ASN:ND2</td>
<td>1:D:402:PRO:HD3</td>
<td>2.26</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:18:ARG:HB2</td>
<td>1:C:28:VAL:HG21</td>
<td>1.93</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:293:GLU:HB</td>
<td>1:C:296:LYS:HB3</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:325:THR:HB</td>
<td>1:C:326:PRO:HD2</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:373:MET:HG3</td>
<td>1:C:375:TRP:CZ2</td>
<td>2.48</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:226:THR:HG21</td>
<td>2:C:431:CBI:O2</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:64:ASP:O</td>
<td>1:D:68:LYS:HB2</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:290:SER:HB3</td>
<td>1:A:299:GLN:HG3</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:155:MET:O</td>
<td>1:B:158:TYR:O</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:366:TRP:HB3</td>
<td>4:D:599:HOH:O</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:48:ASN:O</td>
<td>1:A:58:ALA:HB3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:187:ALA:A</td>
<td>1:B:188:ASN:HB2</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:206:TYR:HB3</td>
<td>1:C:237:VAL:HG11</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:122:LEU:O</td>
<td>1:C:292:PHE:HB2</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:55:TRP:CG</td>
<td>1:C:189:ILE:HG13</td>
<td>2.47</td>
<td>0.49</td>
</tr>
<tr>
<td>1:D:34:ILE:HG22</td>
<td>1:D:39:ARG:HH21</td>
<td>1.76</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:55:LEU:O</td>
<td>1:C:56:THR:HG23</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:B:142:SER:OG</td>
<td>1:B:142:SER:CB</td>
<td>2.30</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:128:ALA:HA</td>
<td>1:B:288:VAL:O</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:373:MET:SD</td>
<td>1:D:376:LEU:HD23</td>
<td>2.52</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:49:CYS:O</td>
<td>1:D:56:THR:HG23</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:145:TYR:CD1</td>
<td>1:B:362:VAL:HB</td>
<td>2.49</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:180:LEU:HB2</td>
<td>1:B:183:VAL:HG23</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:188:ASN:HB3</td>
<td>1:B:192:TRP:CZ3</td>
<td>2.47</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:353:ASN:O</td>
<td>1:B:357:VAL:HG23</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:40:TRP:HB3</td>
<td>1:C:72:GLU:HB2</td>
<td>1.94</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:126:GLU:CD</td>
<td>1:C:425:GLY:H</td>
<td>2.16</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:257:ASP:HB2</td>
<td>1:A:341:ARG:HG2</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:209:CYS:HB2</td>
<td>1:B:236:HIS:CD2</td>
<td>2.48</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:264:ASN:OD1</td>
<td>1:B:266:TYR:HB3</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:27:THR:O</td>
<td>1:D:27:THR:HG22</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:36:ALA:O</td>
<td>1:D:39:ARG:HB2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:177:ALA:CB</td>
<td>1:A:180:LEU:HG</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:340:ASN:CG</td>
<td>1:B:343:GLU:HB2</td>
<td>2.34</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:80:THR:HG22</td>
<td>1:B:81:TYR:CG</td>
<td>2.48</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:18:ARG:CB</td>
<td>1:C:26:GLN:HG2</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:384:LYS:HA</td>
<td>1:C:384:LYS:HD2</td>
<td>1.52</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:39:ARG:NH1</td>
<td>1:C:39:ARG:HA</td>
<td>2.25</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:327:GLU:O</td>
<td>1:D:331:THR:HG23</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:14:LEU:HD23</td>
<td>1:B:110:LEU:HD11</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:327:GLU:O</td>
<td>1:C:330:SER:OG</td>
<td>2.30</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:139:GLY:CA</td>
<td>1:C:400:GLY:HA2</td>
<td>2.38</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:182:PHE:CD1</td>
<td>1:D:187:ALA:HA</td>
<td>2.49</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:2:ARG:HH21</td>
<td>1:D:68:LYS:N</td>
<td>2.11</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:80:THR:HG22</td>
<td>1:D:80:THR:O</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:114:PRO:HG2</td>
<td>1:B:115:ASP:OD2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:244:GLY:HA3</td>
<td>1:B:254:GLY:H</td>
<td>1.78</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:264:ASN:H</td>
<td>1:C:268:MET:CE</td>
<td>2.26</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:129:PHE:HE2</td>
<td>1:D:131:VAL:HB</td>
<td>1.78</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:93:LYS:HE3</td>
<td>1:D:413:GLN:OE1</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:391:ALA:O</td>
<td>1:A:392:ARG:HG3</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:48:ASN:O</td>
<td>1:B:56:THR:HG21</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:35:ASP:HB3</td>
<td>1:C:38:TRP:CZ3</td>
<td>2.48</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:414:VAL:HG21</td>
<td>1:D:416:TRP:CZ2</td>
<td>2.48</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:423:PRO:O</td>
<td>1:D:426:SER:HB3</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:55:TRP:HB3</td>
<td>1:A:189:ILE:CD1</td>
<td>2.44</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:326:PRO:O</td>
<td>1:A:330:SER:OG</td>
<td>2.30</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:50:TYR:N</td>
<td>1:A:56:THR:HG23</td>
<td>2.29</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:115:ASP:OD2</td>
<td>1:B:115:ASP:N</td>
<td>2.47</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:136:VAL:HG21</td>
<td>1:B:414:VAL:HB</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:249:GLU:H</td>
<td>1:B:249:GLU:HG2</td>
<td>1.51</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:18:ARG:HD2</td>
<td>1:C:26:GLN:OE1</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:14:LEU:H</td>
<td>1:C:31:GLU:HA</td>
<td>1.78</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:330:SER:O</td>
<td>1:D:334:ASP:OD2</td>
<td>2.31</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:352:ASN:HA</td>
<td>1:D:355:LEU:HB2</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:D:93:LYS:HE2</td>
<td>4:D:530:HOH:O</td>
<td>2.13</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:92:LEU:HD21</td>
<td>1:B:108:PHE:CD1</td>
<td>2.49</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:80:THR:OG1</td>
<td>1:C:76:ASP:HB2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:94:PHE:CD2</td>
<td>1:C:95:VAL:HG23</td>
<td>2.49</td>
<td>0.48</td>
</tr>
<tr>
<td>1:B:10:ASN:O</td>
<td>1:B:12:PRO:HD3</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:41:LEU:HD13</td>
<td>1:B:69:CYS:HB3</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:119:MET:SD</td>
<td>1:C:151:GLU:HG3</td>
<td>2.54</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:215:VAL:HG22</td>
<td>1:D:225:PHE:HE2</td>
<td>1.78</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:164:GLY:HA2</td>
<td>1:A:169:THR:OG1</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:183:VAL:HG11</td>
<td>1:B:206:TYR:HB3</td>
<td>1.95</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:134:SER:HB2</td>
<td>1:C:283:SER:HA</td>
<td>1.95</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:135:THR:O</td>
<td>1:B:137:GLU:HG2</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:106:SER:OG</td>
<td>1:C:108:PHE:HE1</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:387:GLN:O</td>
<td>1:C:390:ALA:HB3</td>
<td>2.13</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:308:ILE:HG22</td>
<td>1:A:308:ILE:O</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:126:GLU:OE1</td>
<td>1:B:424:ILE:HA</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:309:GLU:HG2</td>
<td>4:C:525:HOH:O</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:117:TYR:H</td>
<td>1:B:151:GLU:HG2</td>
<td>1.78</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:128:ALA:HB1</td>
<td>1:B:289:VAL:HG22</td>
<td>1.95</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:130:ASP:CG</td>
<td>1:B:418:ASN:HD22</td>
<td>2.17</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:1:PCA:HA</td>
<td>1:B:66:ALA:O</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:275:GLY:CA</td>
<td>1:C:278:LYS:HG3</td>
<td>2.45</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:7:THR:O</td>
<td>1:C:73:GLY:HA3</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:115:ASP:O</td>
<td>1:D:165:ALA:HB3</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:2:ARG:H</td>
<td>1:D:2:ARG:HG2</td>
<td>1.34</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:96:THR:HG1</td>
<td>1:D:103:ASN:HB3</td>
<td>1.79</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:374:LEU:HD21</td>
<td>1:D:399:SER:O</td>
<td>2.13</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:379:ILE:CG2</td>
<td>1:A:385:GLU:HB2</td>
<td>2.43</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:22:PRO:O</td>
<td>1:A:429:ASP:OD2</td>
<td>2.32</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:241:THR:O</td>
<td>1:C:253:ALA:HB1</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:230:CYS:HB3</td>
<td>1:C:255:LYS:O</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:375:TRP:O</td>
<td>1:C:392:ARG:HG2</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:107:ARG:HG2</td>
<td>1:D:109:TYR:CE1</td>
<td>2.50</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:189:ILE:HG23</td>
<td>1:D:190:GLU:HG3</td>
<td>1.95</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:178:ARG:HG2</td>
<td>1:A:204:GLY:O</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:173:ASP:HB2</td>
<td>1:A:212:GLU:CD</td>
<td>2.35</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:95:VAL:HG23</td>
<td>1:A:410:PRO:HA</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:181:LYS:HB2</td>
<td>1:B:181:LYS:HE3</td>
<td>1.29</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:82:GLY:O</td>
<td>1:C:93:LYS:HB2</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:336:PHE:O</td>
<td>1:D:337:ASN:HB2</td>
<td>2.14</td>
<td>0.47</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:C:245:GLY:H</td>
<td>1:C:251:ARG:HA</td>
<td>1.79</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:257:ASP:CG</td>
<td>1:C:260:GLY:H</td>
<td>2.18</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:27:THR:CG2</td>
<td>1:D:29:ASN:HD21</td>
<td>2.23</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:117:TYR:OH</td>
<td>1:C:168:GLY:HA2</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:341:ARG:HD2</td>
<td>1:D:345:VAL:HG13</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:415:VAL:HG13</td>
<td>1:D:415:VAL:O</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:231:THR:CG2</td>
<td>1:B:345:VAL:HB</td>
<td>2.44</td>
<td>0.47</td>
</tr>
<tr>
<td>1:B:306:ARG:HB3</td>
<td>1:B:306:ARG:HE</td>
<td>1.56</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:147:VAL:HG23</td>
<td>1:C:149:MET:HG2</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:262:ASP:O</td>
<td>1:C:268:MET:HE3</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:263:TYR:OH</td>
<td>1:C:321:SER:O</td>
<td>2.33</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:94:PHE:CD1</td>
<td>1:D:104:VAL:HG12</td>
<td>2.50</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:31:GLU:HG3</td>
<td>1:D:111:MET:CB</td>
<td>2.43</td>
<td>0.47</td>
</tr>
<tr>
<td>1:D:266:TYR:CZ</td>
<td>1:D:271:PRO:HB3</td>
<td>2.50</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:343:GLU:HA</td>
<td>1:A:347:GLY:N</td>
<td>2.26</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:15:THR:HB</td>
<td>1:B:27:THR:CG2</td>
<td>2.45</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:175:GLN:O</td>
<td>1:B:176:CYS:HB2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:155:MET:HA</td>
<td>1:C:161:ASN:CB</td>
<td>2.33</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:105:GLY:CA</td>
<td>1:D:365:ILE:HG23</td>
<td>2.42</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:196:THR:OG1</td>
<td>1:B:196:THR:O</td>
<td>2.30</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:32:VAL:HG12</td>
<td>1:C:109:TYR:C</td>
<td>2.35</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:136:VAL:HG11</td>
<td>1:D:142:SER:OG</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:126:GLU:HB3</td>
<td>1:B:291:ARG:HG2</td>
<td>1.95</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:82:GLY:O</td>
<td>1:B:93:LYS:HB2</td>
<td>2.14</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:147:VAL:HG12</td>
<td>1:C:212:GLU:HB3</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:193:LYS:HB2</td>
<td>1:C:203:VAL:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:26:GLN:HG3</td>
<td>1:C:28:VAL:HG22</td>
<td>1.98</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:122:LEU:HB3</td>
<td>1:C:292:PHE:CB</td>
<td>2.45</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:312:PRO:HB3</td>
<td>1:C:321:SER:HA</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:280:LEU:HA</td>
<td>1:D:303:GLN:OE1</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:35:ASP:HB2</td>
<td>1:D:109:TYR:CE2</td>
<td>2.51</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:45:ASN:O</td>
<td>1:D:46:MET:HB2</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:39:ARG:HH21</td>
<td>1:B:167:TYR:C</td>
<td>2.18</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:160:SER:O</td>
<td>1:C:160:SER:OG</td>
<td>2.30</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:223:PHE:O</td>
<td>1:D:224:ALA:HB2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:229:ALA:O</td>
<td>1:D:257:ASP:HB2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:307:LYS:HD2</td>
<td>1:D:430:PHE:CD2</td>
<td>2.51</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:293:GLU:OE1</td>
<td>1:A:298:SER:OG</td>
<td>2.33</td>
<td>0.46</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:B:144:LEU:O</td>
<td>1:B:145:TYR:HB3</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:213:ILE:HG22</td>
<td>1:B:213:ILE:O</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:89:ALA:HA</td>
<td>1:B:416:TRP:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:14:LEU:HD12</td>
<td>1:C:15:THR:N</td>
<td>2.31</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:166:ARG:HB2</td>
<td>1:C:167:TYR:CD2</td>
<td>2.50</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:174:ALA:HB1</td>
<td>1:D:257:ASP:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:400:GLY:O</td>
<td>1:D:402:PRO:HD3</td>
<td>2.14</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:297:LEU:O</td>
<td>1:A:323:GLU:HA</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:380:TYR:HB3</td>
<td>1:A:392:ARG:CZ</td>
<td>2.46</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:377:ASP:O</td>
<td>1:B:378:SER:HB2</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:50:TYR:CD1</td>
<td>1:B:55:TRP:HA</td>
<td>2.51</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:121:ASN:ND2</td>
<td>1:C:121:ASN:H</td>
<td>2.14</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:146:PHE:O</td>
<td>1:C:212:GLU:HA</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:221:TYR:O</td>
<td>1:C:222:ALA:HB2</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:288:VAL:HG13</td>
<td>1:C:299:GLN:HE21</td>
<td>1.80</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:227:PRO:HG3</td>
<td>1:C:297:LEU:CD2</td>
<td>2.45</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:392:ARG:N</td>
<td>1:C:392:ARG:HD2</td>
<td>2.31</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:392:ARG:HG2</td>
<td>1:C:392:ARG:HH11</td>
<td>1.79</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:126:GLU:HB2</td>
<td>1:D:291:ARG:HA</td>
<td>1.96</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:2:ARG:HA</td>
<td>1:D:162:GLN:HB2</td>
<td>1.98</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:7:THR:HA</td>
<td>1:D:8:PRO:HD3</td>
<td>1.67</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:114:PRO:HB2</td>
<td>1:A:166:ARG:CZ</td>
<td>2.45</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:263:TYR:OH</td>
<td>1:C:322:SER:HA</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:318:MET:HE1</td>
<td>1:C:336:PHE:HZ</td>
<td>2.51</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:105:GLY:HA3</td>
<td>1:C:365:ILE:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:113:GLY:O</td>
<td>1:D:115:ASP:N</td>
<td>2.49</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:96:THR:OG1</td>
<td>1:A:103:ASN:O</td>
<td>2.30</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:149:MET:CE</td>
<td>1:A:360:VAL:HG21</td>
<td>2.45</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:226:THR:HG23</td>
<td>1:B:261:CYS:C</td>
<td>2.36</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:400:GLY:O</td>
<td>1:B:402:PRO:HD3</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:48:ASN:O</td>
<td>1:B:56:THR:OG1</td>
<td>2.30</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:164:GLY:HA2</td>
<td>1:C:169:THR:OG1</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:208:SER:OG</td>
<td>1:C:235:TYR:OH</td>
<td>2.30</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:269:GLY:O</td>
<td>1:C:314:THR:HG21</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:319:PRO:HD3</td>
<td>1:C:331:THR:OG1</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:293:GLU:HB2</td>
<td>1:D:296:LYS:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:2:ARG:HE22</td>
<td>1:A:70:MET:CE</td>
<td>2.27</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:9:GLU:OE1</td>
<td>1:A:33:VAL:HG23</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:105:GLY:O</td>
<td>1:D:106:SER:HB3</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:157:SER:O</td>
<td>1:D:159:PRO:HD3</td>
<td>2.15</td>
<td>0.46</td>
</tr>
</tbody>
</table>

Continued on next page...
### Interatomic Distances and Clash Overlaps

<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:172:CYS:O</td>
<td>1:D:173:ASP:HB3</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:D:141:ASN:HB2</td>
<td>1:D:373:MET:SD</td>
<td>2.56</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:267:ARG:HE</td>
<td>1:A:389:GLY:CA</td>
<td>2.28</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:132:ASP:HB3</td>
<td>1:A:415:VAL:CG1</td>
<td>2.46</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:39:ARG:NH1</td>
<td>1:A:73:GLY:HA2</td>
<td>2.30</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:15:THR:O</td>
<td>1:B:15:THR:OG1</td>
<td>2.30</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:147:VAL:CG1</td>
<td>1:B:212:GLU:HB2</td>
<td>2.39</td>
<td>0.46</td>
</tr>
<tr>
<td>1:B:341:ARG:NH1</td>
<td>1:B:344:GLU:OE1</td>
<td>2.49</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:257:ASP:HA</td>
<td>1:C:341:ARG:HG2</td>
<td>1.98</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:211:ALA:HB2</td>
<td>1:A:233:ASN:HB3</td>
<td>1.99</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:227:PRO:CG</td>
<td>1:B:324:ILE:HG21</td>
<td>2.41</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:354:ALA:HA</td>
<td>1:B:357:VAL:HG23</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:266:TYR:CD2</td>
<td>1:C:271:PRO:HA</td>
<td>2.51</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:94:PHE:HZ</td>
<td>1:C:104:VAL:HG13</td>
<td>2.52</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:408:GLN:HG3</td>
<td>1:D:409:PHE:CD1</td>
<td>2.38</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:327:GLU:N</td>
<td>1:B:327:GLU:OE2</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:366:TRP:HE2</td>
<td>1:B:367:ASP:O</td>
<td>1.99</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:76:ASP:OD1</td>
<td>1:B:76:ASP:O</td>
<td>2.34</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:324:ILE:HG22</td>
<td>1:C:324:ILE:O</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:336:PHE:HA</td>
<td>1:C:388:PRO:HB2</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:225:PHE:HZ</td>
<td>1:A:297:LEU:HB3</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:126:GLU:OE2</td>
<td>1:B:427:THR:OG1</td>
<td>2.30</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:152:ASP:OD2</td>
<td>1:B:155:MET:HB2</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:291:ARG:HB3</td>
<td>1:B:424:ILE:HG12</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:275:GLY:HA3</td>
<td>1:C:278:LYS:HG3</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:78:LEU:O</td>
<td>1:C:80:THR:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:2:ARG:O</td>
<td>1:D:71:ILE:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:133:LEU:HD12</td>
<td>1:A:133:LEU:H</td>
<td>1.80</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:175:GLN:NE2</td>
<td>3:B:431:CTT:O2D</td>
<td>2.49</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:1:PCA:O</td>
<td>1:B:162:GLN:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:200:ASN:ND2</td>
<td>4:B:504:HOH:O</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:227:PRO:HB2</td>
<td>1:B:351:LEU:CD1</td>
<td>2.46</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:178:ARG:NE</td>
<td>1:B:248:SER:OG</td>
<td>2.49</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:299:GLN:HG3</td>
<td>1:B:300:TYR:N</td>
<td>2.31</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:384:LYS:HG3</td>
<td>1:B:387:GLN:HB2</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:264:ASN:O</td>
<td>1:C:267:ARG:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:264:ASN:O</td>
<td>1:D:268:MET:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:39:ARG:NE</td>
<td>1:A:167:TYR:O</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:39:ARG:NH2</td>
<td>1:B:167:TYR:HA</td>
<td>2.32</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:32:VAL:CG1</td>
<td>1:C:110:LEU:HA</td>
<td>2.45</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:135:THR:HG22</td>
<td>1:C:135:THR:O</td>
<td>2.17</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:C:18:ARG:O</td>
<td>1:C:26:GLN:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:181:LYS:HB2</td>
<td>1:D:181:LYS:HE2</td>
<td>1.66</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:200:ASN:N</td>
<td>1:D:200:ASN:OD1</td>
<td>2.49</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:371:ALA:O</td>
<td>1:D:373:MET:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:38:TRP:H</td>
<td>1:D:38:TRP:HE3</td>
<td>1.64</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:17:GLN:HE2</td>
<td>1:A:25:CYS:HB2</td>
<td>1.81</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:51:ASP:O</td>
<td>1:A:53:ASN:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:115:ASP:OD1</td>
<td>1:B:166:ARG:NH1</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:267:ARG:NH1</td>
<td>3:B:431:CTT:H6B</td>
<td>2.32</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:380:TYR:CG</td>
<td>1:B:381:PRO:HA</td>
<td>2.51</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:9:GLU:OE2</td>
<td>1:B:39:ARG:NH1</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:212:GLU:HG3</td>
<td>1:C:212:GLU:O</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:265:PRO:O</td>
<td>1:C:270:ASN:ND2</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:270:ASN:OD1</td>
<td>1:D:311:PRO:HB2</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:252:PHE:O</td>
<td>1:A:341:ARG:NH1</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:348:PHE:HD2</td>
<td>1:A:352:ASN:ND2</td>
<td>2.15</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:112:ASN:ND2</td>
<td>1:B:118:GLN:OE1</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:251:ARG:NH2</td>
<td>3:B:431:CTT:O6C</td>
<td>2.49</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:188:ASN:HB2</td>
<td>1:C:192:TRP:O6C</td>
<td>2.52</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:149:ARG:CA</td>
<td>1:A:39:ARG:HH11</td>
<td>2.29</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:401:VAL:HG1</td>
<td>1:C:404:GLU:OE2</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:42:HIS:HB2</td>
<td>1:C:47:GLN:O</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:107:ARG:HD3</td>
<td>2:D:432:CBI:C2'</td>
<td>2.46</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:178:ARG:HB2</td>
<td>1:D:203:VAL:HG13</td>
<td>1.99</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:239:GLU:O</td>
<td>1:D:242:ASN:ND2</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:215:VAL:HG2</td>
<td>1:D:292:PHE:HZ</td>
<td>1.81</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:401:VAL:O</td>
<td>1:D:404:GLU:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:402:PRO:O</td>
<td>1:B:405:VAL:HG2</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:77:TYR:HD2</td>
<td>1:B:81:TYR:HD2</td>
<td>1.65</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:264:ASN:C</td>
<td>1:C:268:MET:HG2</td>
<td>2.37</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:124:GLY:N</td>
<td>1:C:292:PHE:O</td>
<td>2.49</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:296:LYS:HE2</td>
<td>4:D:545:HOH:O</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:409:PHE:N</td>
<td>1:D:410:PRO:HD3</td>
<td>2.32</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:158:TYR:HA</td>
<td>1:A:159:PRO:HD3</td>
<td>1.58</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:152:ASP:OD2</td>
<td>1:B:155:MET:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:180:LEU:HB2</td>
<td>1:B:183:VAL:CG2</td>
<td>2.47</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:228:HIS:ND1</td>
<td>1:B:257:ASP:O</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:118:GLN:NE2</td>
<td>4:C:540:HOH:O</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:32:VAL:CG1</td>
<td>1:C:110:LEU:HD2</td>
<td>2.47</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:93:LYS:HE3</td>
<td>1:C:96:THR:HG2</td>
<td>1.99</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:35:ASP:OD2</td>
<td>1:D:38:TRP:HZ3</td>
<td>1.99</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:D:387:GLN:NE2</td>
<td>4:D:595:HOH:O</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:9:GLU:OE1</td>
<td>1:D:77:TYR:OH</td>
<td>2.30</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:413:GLN:NE2</td>
<td>1:A:413:GLN:O</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:22:PRO:HD3</td>
<td>1:B:425:GLY:O</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:B:61:THR:N</td>
<td>1:B:64:ASP:OD2</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:401:VAL:HB</td>
<td>1:C:404:GLU:HB2</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:91:THR:HA</td>
<td>1:C:415:VAL:HA</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:110:LEU:O</td>
<td>1:D:117:TYR:HB3</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:D:380:TYR:O</td>
<td>1:D:392:ARG:NH2</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:197:SER:OG</td>
<td>1:A:198:ASP:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:300:TYR:CD1</td>
<td>1:A:307:LYS:HD2</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:349:GLU:HA</td>
<td>1:B:352:ASN:OD1</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:116:LYS:HG2</td>
<td>1:C:116:LYS:H</td>
<td>1.38</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:198:ASP:OD1</td>
<td>1:C:201:ALA:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:32:VAL:HG12</td>
<td>1:C:110:LEU:HA</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:267:ARG:HA</td>
<td>1:C:391:ALA:O</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:71:ILE:HD11</td>
<td>1:D:163:ALA:CB</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:163:ALA:HB1</td>
<td>1:D:167:TYR:CG</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:218:SER:OG</td>
<td>1:D:219:ASN:N</td>
<td>2.49</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:251:ARG:NH2</td>
<td>2:D:431:CBI:O6</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:12:PRO:O</td>
<td>1:A:32:VAL:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:1:PCA:HG3</td>
<td>1:A:182:PHE:CD1</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:381:PRO:HA</td>
<td>1:A:382:PRO:HD3</td>
<td>1.83</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:110:LEU:HA</td>
<td>1:B:110:LEU:HD12</td>
<td>1.79</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:26:GLN:NE2</td>
<td>1:B:27:THR:O</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:354:ALA:O</td>
<td>1:B:357:VAL:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:175:GLN:NE2</td>
<td>3:B:431:CTT:O6C</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:67:GLU:OE2</td>
<td>1:B:162:GLN:NE2</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:82:GLY:O</td>
<td>1:B:93:LYS:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:212:GLU:O</td>
<td>1:C:228:HIS:HD2</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:291:ARG:HE</td>
<td>1:C:424:ILE:CG2</td>
<td>2.30</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:38:TRP:HZ2</td>
<td>1:D:106:SER:HA</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:16:TRP:HZ3</td>
<td>1:D:421:PHE:HB3</td>
<td>1.82</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:65:CYS:HB3</td>
<td>1:D:182:PHE:HZ</td>
<td>1.82</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:239:GLU:O</td>
<td>1:A:242:ASN:ND2</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:42:HIS:NE2</td>
<td>1:A:72:GLU:OE2</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:178:ARG:HD2</td>
<td>1:B:207:GLY:HA3</td>
<td>2.00</td>
<td>0.44</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:B:243:CYS:O</td>
<td>1:B:254:GLY:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:84:SER:O</td>
<td>1:B:90:LEU:HD12</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:94:PHE:CE2</td>
<td>1:B:95:VAL:HG23</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:176:CYS:O</td>
<td>1:C:178:ARG:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:213:ILE:HD12</td>
<td>1:C:213:ILE:N</td>
<td>2.33</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:262:ASP:OD1</td>
<td>1:C:267:ARG:NH1</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:333:PHE:O</td>
<td>1:C:337:ASN:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:34:ILE:HB</td>
<td>1:C:77:TYR:HE2</td>
<td>1.82</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:303:GLN:O</td>
<td>1:D:306:ARG:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:337:ASN:ND2</td>
<td>4:A:461:HOO:O</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:92:LEU:HB2</td>
<td>1:C:414:VAL:CG1</td>
<td>2.46</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:219:ASN:ND2</td>
<td>1:D:377:ASP:OD2</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:76:ASP:OD2</td>
<td>1:D:79:GLY:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:149:MET:HE2</td>
<td>1:A:360:VAL:CG2</td>
<td>2.44</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:376:LEU:O</td>
<td>1:A:392:ARG:HB3</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:45:ASN:O</td>
<td>1:A:46:MET:HB2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:174:ALA:O</td>
<td>1:B:258:ALA:HA</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:183:VAL:N</td>
<td>1:B:186:LYS:O</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:209:CYS:O</td>
<td>1:B:210:CYS:HB3</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:229:ALA:N</td>
<td>4:B:557:HOO:O</td>
<td>2.49</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:342:PHE:O</td>
<td>1:B:347:GLY:HA2</td>
<td>2.16</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:48:ASN:ND2</td>
<td>1:B:50:TYR:O</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:18:ARG:NH2</td>
<td>4:C:540:HOO:O</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:339:ARG:NH2</td>
<td>4:C:498:HOO:O</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:50:TYR:OH</td>
<td>1:D:200:ASN:O</td>
<td>2.35</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:342:PHE:HZ</td>
<td>1:D:348:PHE:HA</td>
<td>1.83</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:4:GLY:HA3</td>
<td>1:D:72:GLU:CD</td>
<td>2.38</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:96:THR:N</td>
<td>1:D:103:ASN:O</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:21:ALA:O</td>
<td>1:A:23:GLY:N</td>
<td>2.49</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:172:CYS:HB2</td>
<td>1:B:209:CYS:C</td>
<td>2.38</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:18:ARG:O</td>
<td>1:C:25:CYS:HA</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:326:PRO:HG2</td>
<td>1:C:327:GLU:OE2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:369:HIS:ND1</td>
<td>1:C:402:PRO:HG3</td>
<td>2.32</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:88:ASP:OD1</td>
<td>1:C:88:ASP:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:134:SER:O</td>
<td>1:D:134:SER:OG</td>
<td>2.29</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:246:THR:OG1</td>
<td>1:D:251:ARG:OH1</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:280:LEU:HD23</td>
<td>1:D:308:ILE:HG21</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:31:GLU:HG3</td>
<td>1:D:111:MET:HE2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:327:GLU:O</td>
<td>1:D:331:THR:OG1</td>
<td>2.30</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:334:ASP:N</td>
<td>1:D:334:ASP:OD2</td>
<td>2.50</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:2:ARG:CB</td>
<td>1:D:70:MET:HB3</td>
<td>2.48</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:380:TYR:HA</td>
<td>1:A:381:PRO:HA</td>
<td>1.61</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:50:TYR:O</td>
<td>1:A:51:ASP:HB2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>4:A:463:HOH:O</td>
<td>1:B:116:LYS:HE2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:17:GLN:O</td>
<td>1:B:420:ARG:HA</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:197:SER:CB</td>
<td>1:B:369:HIS:HB2</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:80:THR:HG22</td>
<td>1:B:81:TYR:CD1</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:319:PRO:HG2</td>
<td>1:C:328:LEU:HD23</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:357:VAL:HA</td>
<td>1:C:358:PRO:HD2</td>
<td>1.78</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:129:PHE:CE2</td>
<td>1:D:131:VAL:HB</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:295:ASN:N</td>
<td>1:D:295:ASN:OD1</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:262:ASP:N</td>
<td>1:A:262:ASP:OD1</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:267:ARG:NE</td>
<td>1:A:389:GLY:O</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:315:TRP:CH2</td>
<td>1:A:388:PRO:HB3</td>
<td>2.53</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:90:LEU:HD12</td>
<td>1:A:91:THR:N</td>
<td>2.31</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:160:SER:OG</td>
<td>1:B:185:GLY:HA3</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:119:MET:HE2</td>
<td>1:C:119:MET:HB3</td>
<td>1.76</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:244:GLY:HA2</td>
<td>1:C:253:ALA:HB3</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:226:THR:CG2</td>
<td>1:C:262:ASP:HB3</td>
<td>2.42</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:128:ALA:HB2</td>
<td>1:C:289:VAL:HG22</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:268:MET:O</td>
<td>1:C:313:PRO:HB3</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:152:ASP:OD2</td>
<td>1:A:156:ALA:HB2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:380:TYR:O</td>
<td>1:A:392:ARG:NH2</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:274:TYR:O</td>
<td>1:B:278:LYS:HD2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:B:290:SER:OG</td>
<td>1:B:299:GLN:NE2</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:50:TYR:OH</td>
<td>1:D:192:TRP:NE1</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:247:TYR:HB2</td>
<td>4:D:608:HOH:O</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:D:2:ARG:HG2</td>
<td>1:D:69:CYS:O</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:120:PHE:N</td>
<td>1:A:359:MET:O</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:146:PHE:HB3</td>
<td>1:A:359:MET:CB</td>
<td>2.38</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:51:ASP:N</td>
<td>1:A:54:GLN:O</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:130:ASP:OD1</td>
<td>1:B:130:ASP:N</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:152:ASP:CG</td>
<td>1:B:155:MET:H</td>
<td>2.22</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:133:LEU:HD11</td>
<td>1:C:286:PHE:CE2</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:208:SER:HG</td>
<td>1:C:235:TYR:HH</td>
<td>1.61</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:89:ALA:HA</td>
<td>1:C:416:TRP:O</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:41:LEU:HD23</td>
<td>1:C:70:MET:C</td>
<td>2.38</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:428:TYR:O</td>
<td>1:D:430:PHE:N</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:375:TRP:CZ2</td>
<td>2:D:431:CB:HE5</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:150:GLU:H</td>
<td>1:A:150:GLU:HG3</td>
<td>1.29</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:59:CYS:HB3</td>
<td>1:A:189:ILE:HD13</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:178:ARG:HH21</td>
<td>1:B:248:SER:HA</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:257:ASP:OD2</td>
<td>1:B:260:GLY:N</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:63:THR:HG23</td>
<td>1:B:186:LYS:HE3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:125:ASN:HD22</td>
<td>1:C:423:PRO:N</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:14:LEU:O</td>
<td>1:C:30:ALA:O</td>
<td>2.36</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:133:LEU:H</td>
<td>1:D:133:LEU:HG</td>
<td>1.62</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:262:ASP:OD1</td>
<td>1:D:262:ASP:N</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:280:LEU:HD11</td>
<td>1:D:286:PHE:CD1</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:142:SER:HB3</td>
<td>1:A:414:VAL:HB</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:3:ALA:C</td>
<td>1:A:70:MET:HB2</td>
<td>2.38</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:43:ASP:OD1</td>
<td>1:A:68:LYS:NZ</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:324:ILE:HG22</td>
<td>1:B:324:ILE:O</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:145:TYR:O</td>
<td>1:B:362:VAL:HG23</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:52:GLY:O</td>
<td>1:C:200:ASN:HA</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:77:TYR:HB3</td>
<td>1:D:83:ALA:CB</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:148:ALA:HB2</td>
<td>1:A:359:MET:CE</td>
<td>2.49</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:171:TYR:O</td>
<td>1:A:180:LEU:HD11</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:182:PHE:O</td>
<td>1:A:183:VAL:HG23</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:342:PHE:CD2</td>
<td>1:A:343:GLU:HG3</td>
<td>2.39</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:357:VAL:CG1</td>
<td>1:A:358:PRO:HD2</td>
<td>2.46</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:144:LEU:HD23</td>
<td>1:B:145:TYR:H</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:133:LEU:HD13</td>
<td>1:B:219:ASN:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:368:ASP:HB3</td>
<td>1:B:373:MET:HE2</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:72:GLU:OE1</td>
<td>1:B:72:GLU:HA</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:192:TRP:HE1</td>
<td>1:C:202:GLY:HA3</td>
<td>1.84</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:228:HIS:ND1</td>
<td>1:C:257:ASP:O</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:409:PHE:N</td>
<td>1:C:410:PRO:HD3</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:43:ASP:OD2</td>
<td>1:C:47:GLN:N</td>
<td>2.49</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:181:LYS:O</td>
<td>1:D:188:ASN:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:60:SER:HB3</td>
<td>1:A:64:ASP:OD1</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:266:TYR:CD2</td>
<td>1:D:271:PRO:HA</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:369:HIS:CG</td>
<td>1:A:402:PRO:HG2</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:384:LYS:O</td>
<td>1:B:385:GLU:HB3</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:144:LEU:HD23</td>
<td>1:C:215:VAL:HB</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:82:GLY:CA</td>
<td>1:C:96:THR:HG21</td>
<td>2.49</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:137:GLU:O</td>
<td>1:D:219:ASN:ND2</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:180:LEU:N</td>
<td>1:D:180:LEU:HD23</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:245:GLY:HA2</td>
<td>1:D:258:ALA:HB2</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:401:VAL:C</td>
<td>1:D:405:VAL:HG22</td>
<td>2.38</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:63:THR:HB</td>
<td>1:D:64:ASP:H</td>
<td>1.69</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:119:MET:HE1</td>
<td>1:A:149:MET:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:259:ASN:N</td>
<td>1:A:259:ASN:OD1</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:2:ARG:O</td>
<td>1:A:70:MET:HA</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:362:VAL:HG12</td>
<td>1:A:363:MET:N</td>
<td>2.34</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:368:ASP:H</td>
<td>1:A:373:MET:HE2</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:354:ALA:O</td>
<td>1:B:357:VAL:HB</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:312:PRO:HB3</td>
<td>1:C:321:SER:CA</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:64:ASP:OD1</td>
<td>1:C:68:LYS:HD2</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:263:TYR:OH</td>
<td>1:D:312:PRO:HA</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:17:GLN:HE21</td>
<td>1:A:25:CYS:CB</td>
<td>2.32</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:134:SER:HB2</td>
<td>1:A:283:SER:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:39:ARG:HH11</td>
<td>1:B:39:ARG:HD3</td>
<td>1.68</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:136:VAL:HG12</td>
<td>1:C:140:ILE:HB</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:216:TRP:NE1</td>
<td>1:C:218:SER:OG</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:275:GLY:C</td>
<td>1:C:278:LYS:HG3</td>
<td>2.39</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:182:PHE:CZ</td>
<td>1:D:187:ALA:HB2</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:272:ASP:C</td>
<td>1:D:278:LYS:HD3</td>
<td>2.38</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:61:THR:O</td>
<td>1:D:64:ASP:OD2</td>
<td>2.37</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:17:GLN:HB2</td>
<td>1:A:26:GLN:O</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:13:PRO:HA</td>
<td>1:A:31:GLU:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:333:PHE:O</td>
<td>1:A:337:ASN:N</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:378:SER:O</td>
<td>1:A:392:ARG:HD2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:302:ILE:HG12</td>
<td>1:A:430:PHE:CE1</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:63:THR:O</td>
<td>1:A:63:THR:HG22</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:17:GLN:HG3</td>
<td>4:B:520:HOH:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:318:MET:HG2</td>
<td>1:D:331:THR:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:146:PHE:CE2</td>
<td>1:D:361:LEU:HB2</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:374:LEU:O</td>
<td>1:D:378:SER:HB3</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:83:ALA:HB2</td>
<td>1:A:108:PHE:HZ</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:9:GLU:HB2</td>
<td>1:B:167:TYR:CZ</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:1:PCA:HB2</td>
<td>1:B:2:ARG:H</td>
<td>1.61</td>
<td>0.43</td>
</tr>
<tr>
<td>1:B:110:LEU:HB2</td>
<td>1:B:361:LEU:HD23</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:55:TRP:O</td>
<td>1:C:181:LYS:HG2</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:315:TRP:O</td>
<td>1:C:318:MET:HB2</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:18:ARG:NH1</td>
<td>1:D:118:GLN:HE22</td>
<td>2.16</td>
<td>0.43</td>
</tr>
<tr>
<td>1:D:123:MET:SD</td>
<td>1:D:294:GLU:HG3</td>
<td>2.58</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:31:GLU:HG2</td>
<td>1:A:111:MET:HB2</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:114:PRO:HB2</td>
<td>1:A:166:ARG:NH2</td>
<td>2.34</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:300:TYR:CG</td>
<td>1:A:307:LYS:HE3</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:398:ASP:OD1</td>
<td>1:A:398:ASP:N</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:302:ILE:HG12</td>
<td>1:A:430:PHE:HE1</td>
<td>1.83</td>
<td>0.42</td>
</tr>
</tbody>
</table>

Continued on next page...
### 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:B:139:GLY:HA2</td>
<td>1:B:377:ASP:OD2</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:173:ASP:HB2</td>
<td>1:C:174:ALA:H</td>
<td>1.68</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:198:ASP:HB2</td>
<td>1:C:369:HIS:HE2</td>
<td>1.84</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:149:MET:SD</td>
<td>1:D:171:TYR:HD1</td>
<td>2.42</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:40:TRP:HB3</td>
<td>1:D:72:GLU:HB2</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:323:GLU:HG</td>
<td>1:A:323:GLU:H</td>
<td>1.32</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:34:ILE:HD12</td>
<td>1:C:108:PHE:CE1</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:176:CYS:HB3</td>
<td>1:C:207:GLY:HA3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:197:SER:OG</td>
<td>1:C:198:ASP:N</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:263:TYR:HE1</td>
<td>1:C:328:LEU:HG</td>
<td>1.84</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:82:GLU:HA3</td>
<td>1:C:96:THR:HG21</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:21:ALA:HB1</td>
<td>1:D:22:PRO:HD2</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:35:ASP:HB3</td>
<td>1:D:38:TRP:HZ3</td>
<td>1.84</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:35:ASP:OD2</td>
<td>1:A:107:ARG:NH2</td>
<td>2.49</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:122:LEU:HB3</td>
<td>1:B:355:LEU:HD13</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:188:ASN:O</td>
<td>1:B:192:TRP:HE3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:131:VAL:HG13</td>
<td>1:B:286:PHE:CE2</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:133:LEU:HD21</td>
<td>1:C:216:TRP:CZ2</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:20:THR:OG1</td>
<td>1:C:21:ALA:N</td>
<td>2.51</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:299:GLN:O</td>
<td>1:C:310:ILE:HD12</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:381:PRO:HB3</td>
<td>4:C:491:HOH:O</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:111:MET:HE3</td>
<td>1:D:111:MET:HB3</td>
<td>1.86</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:123:MET:HE1</td>
<td>1:D:352:ASN:HB3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:372:ASN:HB2</td>
<td>1:D:374:LEU:HG</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:379:ILE:HG12</td>
<td>1:D:391:ALA:HA</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:21:ALA:HB1</td>
<td>1:A:22:PRO:HD2</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:336:PHE:HD1</td>
<td>1:A:336:PHE:HA</td>
<td>1.70</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:177:ALA:HB1</td>
<td>1:B:180:LEU:HG</td>
<td>1.99</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:254:GLY:O</td>
<td>1:B:256:CYS:N</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:178:ARG:HB3</td>
<td>1:C:207:GLY:HA2</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:193:LYS:HD2</td>
<td>1:C:203:VAL:HG12</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:284:ARG:NH1</td>
<td>1:C:304:ASP:OD2</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:306:ARG:NH2</td>
<td>1:D:302:ILE:HG22</td>
<td>2.34</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:145:TYR:CE2</td>
<td>1:C:362:VAL:HB</td>
<td>2.55</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:99:GLU:HA</td>
<td>1:C:40:TRP:CE3</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:180:LEU:HB2</td>
<td>1:D:183:VAL:HG23</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:295:ASN:HA</td>
<td>1:D:348:PHE:CE2</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:276:LYS:HZ3</td>
<td>1:A:276:LYS:HG2</td>
<td>1.75</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:155:MET:HG3</td>
<td>1:B:164:GLY:CA</td>
<td>2.47</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:155:MET:HB2</td>
<td>1:C:164:GLY:HA3</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:384:LYS:HE3</td>
<td>1:C:387:GLN:NE2</td>
<td>2.31</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:C:38:TRP:CH2</td>
<td>1:C:107:ARG:HB2</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:109:TYR:CE1</td>
<td>1:D:362:VAL:HG13</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:40:TRP:CE3</td>
<td>1:D:72:GLU:HG3</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:58:ALA:HB1</td>
<td>1:B:68:LYS:CE</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:147:VAL:HG12</td>
<td>1:C:212:GLU:HB2</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:213:ILE:HA</td>
<td>1:C:227:PRO:HA</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:133:ILE:HA</td>
<td>1:D:136:VAL:HG23</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:84:SER:O</td>
<td>1:D:90:LEU:HD12</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:77:TYR:O</td>
<td>1:A:82:GLY:N</td>
<td>2.52</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:134:SER:HA</td>
<td>1:B:282:THR:O</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:152:ASP:OD1</td>
<td>1:B:154:GLY:N</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:378:SER:O</td>
<td>1:B:392:ARG:HB2</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:58:ALA:HB1</td>
<td>1:B:68:LYS:HE2</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:430:PHE:HD2</td>
<td>1:D:304:ASP:OD1</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:117:TYR:OH</td>
<td>1:D:169:THR:O</td>
<td>2.30</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:232:THR:OG1</td>
<td>1:D:255:LYS:NZ</td>
<td>2.49</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:319:PRO:HG3</td>
<td>1:D:327:GLU:HB2</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:39:ARG:HB3</td>
<td>1:D:71:ILE:CG2</td>
<td>2.47</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:93:LYS:HD2</td>
<td>1:D:413:GLN:OE1</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:12:PRO:HD3</td>
<td>1:D:77:TYR:CE1</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:325:THR:HG1</td>
<td>1:A:327:GLU:HG2</td>
<td>1.81</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:380:TYR:CG</td>
<td>1:A:381:PRO:HA</td>
<td>2.55</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:272:ASP:O</td>
<td>1:B:278:LYS:HB2</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:76:ASP:O</td>
<td>1:A:80:THR:N</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:133:LEU:HD13</td>
<td>1:B:219:ASN:C</td>
<td>2.40</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:183:VAL:CG1</td>
<td>1:B:206:TYR:HB3</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:18:ARG:O</td>
<td>1:B:26:GLN:N</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>1:B:302:ILE:O</td>
<td>1:B:302:ILE:HG22</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:226:THR:HG22</td>
<td>1:C:226:THR:O</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:234:GLU:HG2</td>
<td>1:C:234:GLU:H</td>
<td>1.53</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:123:MET:HA</td>
<td>1:C:292:PHE:O</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:104:VAL:HG21</td>
<td>1:C:406:GLU:OE1</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:60:SER:HB3</td>
<td>1:C:64:ASP:OD2</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:206:TYR:HA</td>
<td>1:A:206:TYR:HD2</td>
<td>1.71</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:46:MET:HE2</td>
<td>1:A:46:MET:HA</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:77:TYR:O</td>
<td>1:A:83:ALA:N</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:237:VAL:HG12</td>
<td>1:C:238:CYS:N</td>
<td>2.35</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:273:PHE:CE1</td>
<td>1:C:311:PRO:HD3</td>
<td>2.55</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:D:226:THR:HG23</td>
<td>1:D:262:ASP:CB</td>
<td>2.40</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:287:THR:O</td>
<td>1:D:301:PHE:HA</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:D:401:VAL:O</td>
<td>1:D:405:VAL:N</td>
<td>2.49</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:17:GLN:HB2</td>
<td>1:A:27:THR:CA</td>
<td>2.43</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:55:TRP:HH2</td>
<td>1:A:182:PHE:CE1</td>
<td>2.38</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:307:LYS:HD3</td>
<td>1:A:430:PHE:CG</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:117:TYR:N</td>
<td>1:B:151:GLU:O</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:122:LEU:HD23</td>
<td>1:B:213:ILE:HD13</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:205:PRO:O</td>
<td>1:B:239:GLU:HA</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:348:PHE:O</td>
<td>1:B:352:ASN:OD1</td>
<td>2.38</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:39:ARG:HD2</td>
<td>1:B:72:GLU:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:97:LYS:HD2</td>
<td>1:C:6:GLU:CD</td>
<td>2.40</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:148:ALA:HB2</td>
<td>1:C:359:MET:CG</td>
<td>2.48</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:179:ASP:HB3</td>
<td>1:C:247:TYR:CZ</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:293:GLU:O</td>
<td>1:C:296:LYS:N</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:353:ASN:HA</td>
<td>1:C:356:ARG:HD2</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:16:TRP:HB2</td>
<td>1:C:419:ILE:HB</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:230:CYS:CB</td>
<td>1:D:256:CYS:HA</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:286:PHE:CB</td>
<td>1:D:303:GLN:HG2</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:91:THR:HG23</td>
<td>1:D:415:VAL:HB</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:41:LEU:HD11</td>
<td>1:A:182:PHE:HZ</td>
<td>1.84</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:83:ALA:HB2</td>
<td>1:A:108:PHE:CZ</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:318:MET:CE</td>
<td>1:B:332:MET:HA</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:384:LYS:HD2</td>
<td>1:B:387:GLN:CB</td>
<td>2.47</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:178:ARG:HB3</td>
<td>1:C:207:GLY:CA</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:197:SER:HB2</td>
<td>1:D:369:HIS:HD2</td>
<td>1.83</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:414:VAL:HG13</td>
<td>1:D:414:VAL:O</td>
<td>2.19</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:22:PRO:HB2</td>
<td>1:A:429:ASP:CG</td>
<td>2.41</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:313:PRO:HD3</td>
<td>1:B:321:SER:O</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:374:LEU:CD2</td>
<td>1:B:397:THR:HA</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:82:GLY:HA3</td>
<td>1:B:93:LYS:CB</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:230:CYS:HB3</td>
<td>1:C:255:LYS:C</td>
<td>2.40</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:275:GLY:O</td>
<td>1:C:281:ASP:HA</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:341:ARG:NH1</td>
<td>1:C:344:GLU:OE1</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:7:THR:HA</td>
<td>1:C:8:PRO:HD2</td>
<td>1.94</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:107:ARG:NH2</td>
<td>2:D:432:CB1:O6</td>
<td>2.49</td>
<td>0.41</td>
</tr>
</tbody>
</table>
| 1:D:85:THR:HA    | 1:D:89:ALA:O         | 2.20                     | 0.41              

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:189:ILE:HG23</td>
<td>1:A:190:GLU:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:2:ARG:HH22</td>
<td>1:A:70:MET:HE1</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:181:LYS:O</td>
<td>1:B:187:ALA:HA</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:257:ASP:CG</td>
<td>1:B:260:GLY:H</td>
<td>2.23</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:127:LEU:HG</td>
<td>1:C:128:ALA:N</td>
<td>2.32</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:193:LYS:CA</td>
<td>1:C:193:LYS:HZ3</td>
<td>2.32</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:205:PRO:HB2</td>
<td>1:C:206:TYR:H</td>
<td>1.47</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:45:ASN:O</td>
<td>1:C:46:MET:HB2</td>
<td>2.19</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:78:LEU:HB3</td>
<td>1:C:79:GLY:H</td>
<td>1.58</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:80:THR:HB</td>
<td>1:C:81:TYR:CE2</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:11:HIS:HD2</td>
<td>1:D:33:VAL:HB</td>
<td>1.84</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:196:THR:OG1</td>
<td>1:A:197:SER:N</td>
<td>2.53</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:33:VAL:HG22</td>
<td>1:A:34:ILE:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:343:GLU:CG</td>
<td>1:A:347:GLY:HA2</td>
<td>2.47</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:189:ILE:HG23</td>
<td>1:B:190:GLU:N</td>
<td>2.36</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:267:ARG:HH12</td>
<td>3:B:431:CTT:H6B</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:325:THR:H</td>
<td>1:B:328:LEU:HB2</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:122:LEU:HD23</td>
<td>1:C:292:PHE:CE2</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:144:LEU:O</td>
<td>1:A:145:TYR:HB3</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:143:ALA:N</td>
<td>1:A:364:SER:O</td>
<td>2.49</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:130:ASP:N</td>
<td>1:A:417:SER:O</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:93:LYS:H</td>
<td>1:A:93:LYS:HG3</td>
<td>1.52</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:154:GLY:C</td>
<td>1:C:161:ASN:HD2</td>
<td>2.23</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:158:TYR:HA</td>
<td>1:C:159:PRO:HD2</td>
<td>1.70</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:280:LEU:HD11</td>
<td>1:D:286:PHE:CG</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:403:ALA:O</td>
<td>1:A:406:GLU:N</td>
<td>2.53</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:41:LEU:CD1</td>
<td>1:A:49:CYS:HB2</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:137:GLU:HG3</td>
<td>1:B:409:PHE:CG</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:310:ILE:HA</td>
<td>1:B:311:PRO:HD2</td>
<td>1.85</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:325:THR:H</td>
<td>1:B:328:LEU:CB</td>
<td>2.34</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:387:GLN:HA</td>
<td>1:B:388:PRO:HD3</td>
<td>1.91</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:95:VAL:CG2</td>
<td>1:B:104:VAL:HG13</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:144:LEU:HG</td>
<td>1:C:145:TYR:N</td>
<td>2.36</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:383:GLU:H</td>
<td>1:C:383:GLU:HG2</td>
<td>1.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:230:CYS:HB3</td>
<td>1:D:256:CYS:HA</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:242:ASN:HA</td>
<td>4:D:524:HOH:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:307:LYS:O</td>
<td>1:D:308:ILE:HG13</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:36:ALA:HA</td>
<td>1:D:39:ARG:CD</td>
<td>2.43</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:296:LYS:NZ</td>
<td>1:A:323:GLU:OE2</td>
<td>2.49</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:394:ASP:N</td>
<td>1:B:394:ASP:OD2</td>
<td>2.53</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:C:230:CYS:HB3</td>
<td>1:C:256:CYS:CA</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:297:LEU:HD12</td>
<td>1:C:297:LEU:HA</td>
<td>1.79</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:2:ARG:HH21</td>
<td>1:D:68:LYS:CA</td>
<td>2.34</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:145:TYR:CB</td>
<td>1:A:214:ASP:HA</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:250:ASP:OD2</td>
<td>1:A:253:ALA:HB2</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:145:TYR:HE2</td>
<td>1:B:212:GLU:OE1</td>
<td>2.04</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:163:ALA:O</td>
<td>1:B:166:ARG:HG3</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:178:ARG:HD2</td>
<td>1:B:243:CYS:SG</td>
<td>2.60</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:255:LYS:HD2</td>
<td>4:B:499:HOH:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:99:GLU:HG3</td>
<td>1:C:40:TRP:HB2</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:145:TYR:HB3</td>
<td>1:C:214:ASP:HA</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:174:ALA:HB2</td>
<td>1:C:212:GLU:HG2</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:145:TYR:O</td>
<td>1:A:362:VAL:N</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:328:LEU:HD13</td>
<td>1:B:328:LEU:HA</td>
<td>1.79</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:86:SER:O</td>
<td>1:B:89:ALA:HB3</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:351:LEU:O</td>
<td>1:C:354:ALA:N</td>
<td>2.52</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:325:THR:HB</td>
<td>1:D:327:GLU:OE1</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:350:GLN:OE1</td>
<td>1:D:353:ASN:OD1</td>
<td>2.38</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:225:PHE:CZ</td>
<td>1:A:297:LEU:HG</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:371:ALA:O</td>
<td>1:A:374:LEU:HG</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:85:THR:HG22</td>
<td>1:A:87:GLY:H</td>
<td>1.86</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:11:HIS:CD2</td>
<td>1:B:33:VAL:HG23</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:141:ASN:HB3</td>
<td>1:B:366:TRP:CE2</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:B:273:PHE:HE2</td>
<td>1:B:301:PHE:HE1</td>
<td>1.69</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:144:LEU:HB3</td>
<td>1:C:216:TRP:HB3</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:250:LEU:HA</td>
<td>1:C:280:LEU:HD22</td>
<td>1.88</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:374:LEU:O</td>
<td>1:C:378:SER:N</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:D:45:ASN:ND2</td>
<td>4:D:488:HOH:O</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:38:TRP:NE1</td>
<td>2:A:432:CBI:H62</td>
<td>2.35</td>
<td>0.40</td>
</tr>
<tr>
<td>1:B:232:THR:HG22</td>
<td>1:B:234:GLU:HG2</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>1:B:6:GLU:HB3</td>
<td>1:B:7:THR:H</td>
<td>1.57</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:228:HIS:HA</td>
<td>1:C:342:PHE:HE1</td>
<td>1.85</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:346:GLY:CA</td>
<td>1:C:350:GLN:HB2</td>
<td>2.50</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:380:TYR:HE2</td>
<td>2:C:431:CBI:O2'</td>
<td>2.01</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:2:ARG:O</td>
<td>1:C:70:MET:HB3</td>
<td>2.20</td>
<td>0.40</td>
</tr>
<tr>
<td>1:D:195:SER:CB</td>
<td>1:D:198:ASP:HB3</td>
<td>2.51</td>
<td>0.40</td>
</tr>
<tr>
<td>1:D:78:LEU:HD22</td>
<td>1:D:78:LEU:O</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:D:94:PHE:O</td>
<td>1:D:105:GLY:N</td>
<td>2.50</td>
<td>0.40</td>
</tr>
<tr>
<td>1:B:123:MET:CE</td>
<td>1:B:356:ARG:HE</td>
<td>2.24</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:115:ASP:O</td>
<td>1:C:165:ALA:HB3</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:C:225:PHE:HE1</td>
<td>1:C:298:SER:O</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:108:PHE:O</td>
<td>1:C:362:VAL:HG13</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:336:PHE:CE1</td>
<td>1:A:388:PRO:HB2</td>
<td>2.56</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:97:LYS:HA</td>
<td>1:A:102:THR:HA</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>1:D:35:ASP:HA</td>
<td>1:D:168:GLY:O</td>
<td>2.22</td>
<td>0.40</td>
</tr>
<tr>
<td>1:D:145:TYR:HH</td>
<td>2:D:432:CBI:HO1'</td>
<td>1.62</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:155:MET:HE3</td>
<td>1:A:155:MET:HB3</td>
<td>1.76</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:232:THR:HG22</td>
<td>1:A:234:GLU:HG2</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:245:GLY:O</td>
<td>1:A:251:ARG:HG3</td>
<td>2.22</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:228:HIS:ND1</td>
<td>1:A:257:ASP:O</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:315:TRP:CZ3</td>
<td>1:A:388:PRO:HB3</td>
<td>2.57</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:75:GLY:O</td>
<td>1:A:77:TYR:N</td>
<td>2.55</td>
<td>0.40</td>
</tr>
<tr>
<td>1:B:143:ALA:O</td>
<td>1:B:364:SER:OG</td>
<td>2.36</td>
<td>0.40</td>
</tr>
<tr>
<td>1:B:325:THR:HB</td>
<td>1:B:327:GLU:OE2</td>
<td>2.22</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:307:LYS:HD2</td>
<td>1:C:430:PHE:HB3</td>
<td>2.04</td>
<td>0.40</td>
</tr>
<tr>
<td>1:D:198:ASP:OD1</td>
<td>1:D:201:ALA:N</td>
<td>2.50</td>
<td>0.40</td>
</tr>
<tr>
<td>1:D:274:TYR:C</td>
<td>1:D:278:LYS:HD2</td>
<td>2.42</td>
<td>0.40</td>
</tr>
<tr>
<td>1:D:380:TYR:HE2</td>
<td>2:D:431:CBI:O2'</td>
<td>2.04</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:124:GLY:O</td>
<td>1:A:125:ASN:ND2</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:41:LEU:HD22</td>
<td>1:A:41:LEU:HA</td>
<td>1.88</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:193:LYS:NZ</td>
<td>1:C:193:LYS:N</td>
<td>2.70</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 X-ray entries followed by that with respect to entries of similar resolution.

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>428/430 (100%)</td>
<td>354 (83%)</td>
<td>57 (13%)</td>
<td>17 (4%)</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>428/430 (100%)</td>
<td>336 (78%)</td>
<td>64 (15%)</td>
<td>28 (6%)</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>Analysed</th>
<th>Favoured</th>
<th>Allowed</th>
<th>Outliers</th>
<th>Percentiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>428/430 (100%)</td>
<td>332 (78%)</td>
<td>69 (16%)</td>
<td>27 (6%)</td>
<td>1 0</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>428/430 (100%)</td>
<td>331 (77%)</td>
<td>71 (17%)</td>
<td>26 (6%)</td>
<td>1 0</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>1712/1720 (100%)</td>
<td>1353 (79%)</td>
<td>261 (15%)</td>
<td>98 (6%)</td>
<td>2 0</td>
</tr>
</tbody>
</table>

All (98) 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>59</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>122</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>278</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>347</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>6</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>30</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>78</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>86</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>187</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>188</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>240</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>273</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>304</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>385</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>399</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>46</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>94</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>205</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>385</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>399</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>402</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>43</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>51</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>94</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>114</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>135</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>190</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>199</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>235</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>260</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>372</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>30</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>129</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>176</td>
<td>CYS</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>210</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>335</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>43</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>73</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>79</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>87</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>165</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>180</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>200</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>240</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>429</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>87</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>98</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>113</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>385</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>52</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>315</td>
<td>TRP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>337</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>384</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>403</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>94</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>123</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>184</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>212</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>338</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>78</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>173</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>206</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>383</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>388</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>404</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>63</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>106</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>191</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>205</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>319</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>385</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>62</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>211</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>412</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>424</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>177</td>
<td>ALA</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>219</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>414</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>22</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>71</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>176</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>285</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>328</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>76</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>390</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>176</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>260</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>391</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>8</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>138</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>159</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>164</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>345</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>52</td>
<td>GLY</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>313</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>402</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>424</td>
<td>ILE</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 X-ray entries followed by that with respect to entries of similar resolution.

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>354/354 (100%)</td>
<td>240 (68%)</td>
<td>114 (32%)</td>
<td>0 0</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>354/354 (100%)</td>
<td>251 (71%)</td>
<td>103 (29%)</td>
<td>0 0</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>354/354 (100%)</td>
<td>255 (72%)</td>
<td>99 (28%)</td>
<td>0 0</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>354/354 (100%)</td>
<td>259 (73%)</td>
<td>95 (27%)</td>
<td>0 0</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>1416/1416 (100%)</td>
<td>1005 (71%)</td>
<td>411 (29%)</td>
<td>0 0</td>
</tr>
</tbody>
</table>

All (411) 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>2</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>6</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>7</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>17</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>20</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>26</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>27</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>29</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>32</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>34</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>37</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>41</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>45</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>46</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>54</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>57</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>59</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>64</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>71</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>76</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>78</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>84</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>86</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>92</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>93</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>97</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>104</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>110</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>116</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>121</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>122</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>130</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>133</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>135</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>137</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>140</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>142</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>144</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>147</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>149</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>150</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>155</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>157</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>A</td>
<td>175</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>181</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>193</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>194</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>196</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>198</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>206</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>209</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>212</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>215</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>219</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>225</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>231</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>233</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>239</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>241</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>247</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>249</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>251</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>252</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>255</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>259</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>261</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>266</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>267</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>272</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>276</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>280</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>285</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>290</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>291</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>293</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>294</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>297</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>298</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>300</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>304</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>307</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>308</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>309</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>314</td>
<td>THR</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>323</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>328</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>332</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>334</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>336</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>337</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>338</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>339</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>340</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>341</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>348</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>352</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>353</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>356</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>357</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>361</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>364</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>366</td>
<td>TRP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>385</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>392</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>397</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>401</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>404</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>409</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>413</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>417</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>426</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>429</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>2</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>6</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>7</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>9</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>20</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>24</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>31</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>34</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>41</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>44</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>45</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>46</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>47</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>B</td>
<td>48</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>49</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>59</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>63</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>64</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>67</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>68</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>71</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>76</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>78</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>86</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>88</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>93</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>96</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>98</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>106</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>115</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>123</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>127</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>130</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>135</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>144</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>145</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>149</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>155</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>166</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>169</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>178</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>179</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>181</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>190</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>193</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>196</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>197</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>200</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>209</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>212</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>214</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>217</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>240</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>243</td>
<td>CYS</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>B</td>
<td>249</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>255</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>262</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>264</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>267</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>268</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>278</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>281</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>285</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>287</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>293</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>298</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>299</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>306</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>310</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>316</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>320</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>323</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>327</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>328</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>330</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>332</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>334</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>337</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>338</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>340</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>348</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>349</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>352</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>353</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>355</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>356</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>365</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>367</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>369</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>374</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>376</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>383</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>384</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>385</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>394</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>B</td>
<td>395</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>397</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>404</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>415</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>416</td>
<td>TRP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>2</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>5</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>11</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>20</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>28</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>32</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>33</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>39</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>44</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>46</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>47</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>53</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>57</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>59</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>61</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>64</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>70</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>77</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>78</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>86</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>88</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>96</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>97</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>98</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>99</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>115</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>116</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>118</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>119</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>121</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>123</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>133</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>144</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>149</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>166</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>167</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>173</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>175</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>180</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>193</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>200</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>208</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>209</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>223</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>225</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>228</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>230</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>232</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>234</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>238</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>240</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>241</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>242</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>246</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>249</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>252</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>255</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>263</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>265</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>267</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>270</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>272</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>284</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>290</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>291</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>294</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>297</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>298</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>299</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>303</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>306</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>316</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>318</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>335</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>337</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>341</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>342</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>348</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>349</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>351</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>352</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>361</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>366</td>
<td>TRP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>373</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>379</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>383</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>384</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>392</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>394</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>397</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>398</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>404</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>413</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>415</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>419</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>420</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>424</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>2</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>10</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>27</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>29</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>38</td>
<td>TRP</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>39</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>41</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>57</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>59</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>60</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>61</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>64</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>68</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>70</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>71</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>78</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>84</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>93</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>96</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>97</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>98</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>D</td>
<td>99</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>104</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>110</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>111</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>114</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>117</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>119</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>123</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>126</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>133</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>134</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>135</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>138</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>145</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>146</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>150</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>155</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>166</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>171</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>175</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>178</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>181</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>186</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>189</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>193</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>194</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>196</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>197</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>200</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>208</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>225</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>226</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>228</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>230</td>
<td>CYS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>234</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>236</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>242</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>249</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>251</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>270</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>280</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>281</td>
<td>ASP</td>
</tr>
</tbody>
</table>

Continued on next page...
Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (56) 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>5</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>24</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>26</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>29</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>48</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>103</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>A</td>
<td>5</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>24</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>26</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>29</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>48</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>103</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>A</td>
<td>236</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>270</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>303</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>320</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>337</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>340</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>353</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>369</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>372</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>408</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>413</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>5</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>6</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>45</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>103</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>125</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>175</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>270</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>299</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>320</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>340</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>372</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>387</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>5</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>17</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>29</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>37</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>45</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>118</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>121</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>125</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>161</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>270</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>320</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>337</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>352</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>353</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>387</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>10</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>24</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>29</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>103</td>
<td>ASN</td>
</tr>
</tbody>
</table>

Continued on next page...
5.3.3 RNA

There are no RNA molecules in this entry.

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

4 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ 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>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Bond lengths</th>
<th>Bond angles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Counts</td>
<td>RMSZ</td>
</tr>
<tr>
<td>1</td>
<td>PCA</td>
<td>A</td>
<td>1</td>
<td>1</td>
<td>8,8,9</td>
<td>2.04</td>
</tr>
<tr>
<td>1</td>
<td>PCA</td>
<td>B</td>
<td>1</td>
<td>1</td>
<td>8,8,9</td>
<td>1.94</td>
</tr>
<tr>
<td>1</td>
<td>PCA</td>
<td>C</td>
<td>1</td>
<td>1</td>
<td>8,8,9</td>
<td>2.00</td>
</tr>
<tr>
<td>1</td>
<td>PCA</td>
<td>D</td>
<td>1</td>
<td>1</td>
<td>8,8,9</td>
<td>2.03</td>
</tr>
</tbody>
</table>

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Chirals</th>
<th>Torsions</th>
<th>Rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PCA</td>
<td>A</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>0/0/11/13</td>
<td>0/1/1/1</td>
</tr>
<tr>
<td>1</td>
<td>PCA</td>
<td>B</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>0/0/11/13</td>
<td>0/1/1/1</td>
</tr>
<tr>
<td>1</td>
<td>PCA</td>
<td>C</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>0/0/11/13</td>
<td>0/1/1/1</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Chirals</th>
<th>Torsions</th>
<th>Rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PCA</td>
<td>D</td>
<td>1</td>
<td>1</td>
<td>-</td>
<td>0/0/11/13</td>
<td>0/1/1/1</td>
</tr>
</tbody>
</table>

All (7) 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>B</td>
<td>1</td>
<td>PCA</td>
<td>CA-C</td>
<td>2.01</td>
<td>1.52</td>
<td>1.50</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>1</td>
<td>PCA</td>
<td>CA-C</td>
<td>2.19</td>
<td>1.53</td>
<td>1.50</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1</td>
<td>PCA</td>
<td>CA-C</td>
<td>2.23</td>
<td>1.53</td>
<td>1.50</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1</td>
<td>PCA</td>
<td>CD-N</td>
<td>4.76</td>
<td>1.47</td>
<td>1.34</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>1</td>
<td>PCA</td>
<td>CD-N</td>
<td>4.79</td>
<td>1.48</td>
<td>1.34</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>1</td>
<td>PCA</td>
<td>CD-N</td>
<td>4.83</td>
<td>1.48</td>
<td>1.34</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1</td>
<td>PCA</td>
<td>CD-N</td>
<td>4.96</td>
<td>1.48</td>
<td>1.34</td>
</tr>
</tbody>
</table>

All (9) 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>A</td>
<td>1</td>
<td>PCA</td>
<td>OE-CD-CG</td>
<td>-3.30</td>
<td>120.87</td>
<td>126.83</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1</td>
<td>PCA</td>
<td>CG-CD-N</td>
<td>-2.59</td>
<td>101.26</td>
<td>108.35</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>1</td>
<td>PCA</td>
<td>OE-CD-CG</td>
<td>-2.52</td>
<td>122.28</td>
<td>126.83</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>1</td>
<td>PCA</td>
<td>CB-CA-C</td>
<td>-2.42</td>
<td>109.37</td>
<td>112.70</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>1</td>
<td>PCA</td>
<td>CG-CD-N</td>
<td>-2.32</td>
<td>102.02</td>
<td>108.35</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>1</td>
<td>PCA</td>
<td>O-C-CA</td>
<td>-2.19</td>
<td>119.98</td>
<td>125.09</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1</td>
<td>PCA</td>
<td>CB-CA-C</td>
<td>-2.10</td>
<td>109.81</td>
<td>112.70</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1</td>
<td>PCA</td>
<td>CB-CA-C</td>
<td>-2.03</td>
<td>109.91</td>
<td>112.70</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1</td>
<td>PCA</td>
<td>CB-CG-CD</td>
<td>2.42</td>
<td>108.44</td>
<td>104.38</td>
</tr>
</tbody>
</table>

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

3 monomers are involved in 10 short contacts:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Clashes</th>
<th>Symm-Clashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>1</td>
<td>PCA</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>1</td>
<td>PCA</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1</td>
<td>PCA</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

5.5 Carbohydrates

There are no carbohydrates in this entry.
5.6 Ligand geometry

6 ligands are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ 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>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Bond lengths</th>
<th>Bond angles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Count</td>
<td>RMSZ</td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>A</td>
<td>431</td>
<td>-</td>
<td>24,24,24</td>
<td>0.50</td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>A</td>
<td>432</td>
<td>-</td>
<td>24,24,24</td>
<td>0.45</td>
</tr>
<tr>
<td>3</td>
<td>CTT</td>
<td>B</td>
<td>431</td>
<td>-</td>
<td>48,48,48</td>
<td>0.48</td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>C</td>
<td>431</td>
<td>-</td>
<td>24,24,24</td>
<td>0.48</td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>D</td>
<td>431</td>
<td>-</td>
<td>24,24,24</td>
<td>0.49</td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>D</td>
<td>432</td>
<td>-</td>
<td>24,24,24</td>
<td>0.46</td>
</tr>
</tbody>
</table>

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Chirals</th>
<th>Torsions</th>
<th>Rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>CBI</td>
<td>A</td>
<td>431</td>
<td>-</td>
<td>0/8/48/48</td>
<td>0/2/2/2</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>A</td>
<td>432</td>
<td>-</td>
<td>0/8/48/48</td>
<td>0/2/2/2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>CTT</td>
<td>B</td>
<td>431</td>
<td>-</td>
<td>0/20/100/100</td>
<td>0/4/4/4</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>C</td>
<td>431</td>
<td>-</td>
<td>0/8/48/48</td>
<td>0/2/2/2</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>D</td>
<td>431</td>
<td>-</td>
<td>0/8/48/48</td>
<td>0/2/2/2</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>D</td>
<td>432</td>
<td>-</td>
<td>0/8/48/48</td>
<td>0/2/2/2</td>
<td></td>
</tr>
</tbody>
</table>

There are no bond length outliers.

All (22) 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>2</td>
<td>D</td>
<td>432</td>
<td>CBI</td>
<td>C1-O4'-C4'</td>
<td>-4.51</td>
<td>106.70</td>
<td>117.97</td>
</tr>
<tr>
<td>2</td>
<td>A</td>
<td>431</td>
<td>CBI</td>
<td>C1-O4'-C4'</td>
<td>-4.12</td>
<td>107.68</td>
<td>117.97</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>431</td>
<td>CTT</td>
<td>C1D-O4C-C4C</td>
<td>-3.49</td>
<td>109.25</td>
<td>117.97</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>431</td>
<td>CTT</td>
<td>C1E-O4D-C4D</td>
<td>-3.40</td>
<td>109.47</td>
<td>117.97</td>
</tr>
<tr>
<td>2</td>
<td>C</td>
<td>431</td>
<td>CBI</td>
<td>C1-O4'-C4'</td>
<td>-3.29</td>
<td>109.76</td>
<td>117.97</td>
</tr>
</tbody>
</table>

Continued on next page...
There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6 monomers are involved in 34 short contacts:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Clashes</th>
<th>Symm-Clashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>A</td>
<td>431</td>
<td>CBI</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>A</td>
<td>432</td>
<td>CBI</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>431</td>
<td>CTT</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>C</td>
<td>431</td>
<td>CBI</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>431</td>
<td>CBI</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>432</td>
<td>CBI</td>
<td>6</td>
<td>0</td>
</tr>
</tbody>
</table>

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.
6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>&lt;RSRZ&gt;</th>
<th>#RSRZ&gt;2</th>
<th>OWAB(Å²)</th>
<th>Q&lt;0.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>429/430 (99%)</td>
<td>-0.59</td>
<td>1 (0%)</td>
<td>94</td>
<td>95</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>429/430 (99%)</td>
<td>-0.58</td>
<td>1 (0%)</td>
<td>94</td>
<td>95</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>429/430 (99%)</td>
<td>-0.62</td>
<td>2 (0%)</td>
<td>90</td>
<td>92</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>429/430 (99%)</td>
<td>-0.65</td>
<td>1 (0%)</td>
<td>94</td>
<td>95</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>1716/1720 (99%)</td>
<td>-0.61</td>
<td>5 (0%)</td>
<td>93</td>
<td>94</td>
</tr>
</tbody>
</table>

All (5) RSRZ outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>RSRZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>405</td>
<td>VAL</td>
<td>4.9</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>100</td>
<td>TYR</td>
<td>4.6</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>19</td>
<td>CYS</td>
<td>2.3</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>100</td>
<td>TYR</td>
<td>2.2</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>191</td>
<td>GLY</td>
<td>2.1</td>
</tr>
</tbody>
</table>

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q< 0.9’ lists the number of atoms with occupancy less than 0.9.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Atoms</th>
<th>RSCC</th>
<th>RSR</th>
<th>B-factors(Å²)</th>
<th>Q&lt;0.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PCA</td>
<td>C</td>
<td>1</td>
<td>8/9</td>
<td>0.93</td>
<td>0.11</td>
<td>21,32,43,57</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>PCA</td>
<td>B</td>
<td>1</td>
<td>8/9</td>
<td>0.96</td>
<td>0.09</td>
<td>28,41,48,52</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>PCA</td>
<td>A</td>
<td>1</td>
<td>8/9</td>
<td>0.96</td>
<td>0.08</td>
<td>15,28,31,49</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>PCA</td>
<td>D</td>
<td>1</td>
<td>8/9</td>
<td>0.97</td>
<td>0.06</td>
<td>19,25,30,40</td>
<td>0</td>
</tr>
</tbody>
</table>
6.3 Carbohydrates

There are no carbohydrates in this entry.

6.4 Ligands

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q<0.9’ lists the number of atoms with occupancy less than 0.9.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Atoms</th>
<th>RCCC</th>
<th>RSR</th>
<th>B-factors(Å$^2$)</th>
<th>Q&lt;0.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>CTT</td>
<td>B</td>
<td>431</td>
<td>45/45</td>
<td>0.94</td>
<td>0.10</td>
<td>15,35,48,60</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>A</td>
<td>431</td>
<td>23/23</td>
<td>0.95</td>
<td>0.08</td>
<td>18,38,49,57</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>D</td>
<td>432</td>
<td>23/23</td>
<td>0.96</td>
<td>0.08</td>
<td>7,30,42,51</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>D</td>
<td>431</td>
<td>23/23</td>
<td>0.96</td>
<td>0.09</td>
<td>6,25,36,59</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>A</td>
<td>432</td>
<td>23/23</td>
<td>0.97</td>
<td>0.08</td>
<td>12,24,44,50</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>CBI</td>
<td>C</td>
<td>431</td>
<td>23/23</td>
<td>0.97</td>
<td>0.07</td>
<td>17,22,37,50</td>
<td>0</td>
</tr>
</tbody>
</table>

6.5 Other polymers

There are no such residues in this entry.