Full wwPDB X-ray Structure Validation Report

Mar 14, 2018 – 11:45 am GMT

PDB ID : 1SFO
Title : RNA POLYMERASE II STRAND SEPARATED ELONGATION COMPLEX
Authors : Westover, K.D.; Bushnell, D.A.; Kornberg, R.D.
Deposited on : 2004-02-20
Resolution : 3.61 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
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
- Xtriage (Phenix) : 1.13
- EDS : trunk31020
- 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) : trunk31020
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 3.61 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>1075 (3.74-3.50)</td>
</tr>
<tr>
<td>Clashscore</td>
<td>122126</td>
<td>1163 (3.74-3.50)</td>
</tr>
<tr>
<td>Ramachandran outliers</td>
<td>120053</td>
<td>1122 (3.74-3.50)</td>
</tr>
<tr>
<td>Sidechain outliers</td>
<td>120020</td>
<td>1122 (3.74-3.50)</td>
</tr>
<tr>
<td>RSRZ outliers</td>
<td>108989</td>
<td>1043 (3.76-3.48)</td>
</tr>
<tr>
<td>RNA backbone</td>
<td>2636</td>
<td>1068 (4.30-2.90)</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 $\geq 3$, 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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>R</td>
<td>10</td>
<td>20% 10% 40% 20%</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>14</td>
<td>29% 50% 43% 7%</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1733</td>
<td>12% 39% 23% 6%  20%</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1224</td>
<td>15% 48% 21% 6% 10%</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Length</th>
<th>Quality of chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>C</td>
<td>318</td>
<td>19% 44% 18% 16%</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>215</td>
<td>16% 51% 27% 7%</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>155</td>
<td>10% 31% 12% 46%</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>146</td>
<td>13% 40% 29% 9% 9%</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>122</td>
<td>18% 40% 30% 10%</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>70</td>
<td>14% 44% 26% 9% 7%</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>120</td>
<td>14% 61% 18% 5%</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>70</td>
<td>6% 21% 31% 7% 34%</td>
</tr>
</tbody>
</table>
2 Entry composition

There are 14 unique types of molecules in this entry. The entry contains 28647 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 RNA chain called RNA STRAND.

<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>R</td>
<td>10</td>
<td>Total</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C</td>
<td>217</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>98</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>O</td>
<td>45</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P</td>
<td>65</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

- Molecule 2 is a DNA chain called DNA STRAND.

<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>2</td>
<td>T</td>
<td>14</td>
<td>Total</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C</td>
<td>279</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>135</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>O</td>
<td>48</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>P</td>
<td>83</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

- Molecule 3 is a protein called DNA-directed RNA polymerase II largest subunit.

<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>3</td>
<td>A</td>
<td>1395</td>
<td>Total</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C</td>
<td>10969</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>6917</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>O</td>
<td>1923</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>2068</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>61</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

- Molecule 4 is a protein called DNA-directed RNA polymerase II 140 kDa polypeptide.

<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>4</td>
<td>B</td>
<td>1106</td>
<td>Total</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C</td>
<td>8793</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>5568</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>O</td>
<td>1538</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>1632</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>55</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

- Molecule 5 is a protein called DNA-directed RNA polymerase II 45 kDa polypeptide.

<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>5</td>
<td>C</td>
<td>266</td>
<td>Total</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>C</td>
<td>2095</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>1317</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>O</td>
<td>348</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>S</td>
<td>417</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>13</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

- Molecule 6 is a protein called DNA-directed RNA polymerases I, II, and III 27 kDa polypeptide.
<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>6</td>
<td>E</td>
<td>214</td>
<td>Total</td>
<td>C</td>
<td>N</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1752</td>
<td>1111</td>
<td>309</td>
<td>321</td>
</tr>
</tbody>
</table>

- Molecule 7 is a protein called DNA-directed RNA polymerases I, II, and III 23 kDa polypeptide.

<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>7</td>
<td>F</td>
<td>84</td>
<td>Total</td>
<td>C</td>
<td>N</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>679</td>
<td>434</td>
<td>115</td>
<td>127</td>
</tr>
</tbody>
</table>

- Molecule 8 is a protein called DNA-directed RNA polymerases I, II, and III 14.5 kDa polypeptide.

<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>8</td>
<td>H</td>
<td>133</td>
<td>Total</td>
<td>C</td>
<td>N</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1068</td>
<td>673</td>
<td>180</td>
<td>211</td>
</tr>
</tbody>
</table>

- Molecule 9 is a protein called DNA-directed RNA polymerase II 14.2 kDa polypeptide.

<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>9</td>
<td>I</td>
<td>119</td>
<td>Total</td>
<td>C</td>
<td>N</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>971</td>
<td>596</td>
<td>179</td>
<td>186</td>
</tr>
</tbody>
</table>

- Molecule 10 is a protein called DNA-directed RNA polymerases I, II, and III 8.3 kDa polypeptide.

<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>10</td>
<td>J</td>
<td>65</td>
<td>Total</td>
<td>C</td>
<td>N</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>532</td>
<td>339</td>
<td>93</td>
<td>94</td>
</tr>
</tbody>
</table>

- Molecule 11 is a protein called DNA-directed RNA polymerase II 13.6 kDa polypeptide.

<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>11</td>
<td>K</td>
<td>114</td>
<td>Total</td>
<td>C</td>
<td>N</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>919</td>
<td>590</td>
<td>156</td>
<td>171</td>
</tr>
</tbody>
</table>

- Molecule 12 is a protein called DNA-directed RNA polymerases I, II, and III 7.7 kDa polypeptide.

<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>12</td>
<td>L</td>
<td>46</td>
<td>Total</td>
<td>C</td>
<td>N</td>
<td>O</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>364</td>
<td>224</td>
<td>72</td>
<td>64</td>
</tr>
</tbody>
</table>
- Molecule 13 is ZINC ION (three-letter code: ZN) (formula: Zn).

<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>13</td>
<td>J</td>
<td>1</td>
<td>Total</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Zn</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>B</td>
<td>1</td>
<td>Total</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Zn</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>I</td>
<td>2</td>
<td>Total</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Zn</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>C</td>
<td>1</td>
<td>Total</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Zn</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>A</td>
<td>2</td>
<td>Total</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Zn</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>L</td>
<td>1</td>
<td>Total</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Zn</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

- Molecule 14 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

<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>14</td>
<td>A</td>
<td>1</td>
<td>Total</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Mg</td>
<td>1</td>
<td>1</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: RNA STRAND
  Chain R:

- Molecule 2: DNA STRAND
  Chain T:

- Molecule 3: DNA-directed RNA polymerase II largest subunit
  Chain A:
• Molecule 4: DNA-directed RNA polymerase II 140 kDa polypeptide
• Molecule 5: DNA-directed RNA polymerase II 45 kDa polypeptide

Chain C:
• Molecule 6: DNA-directed RNA polymerases I, II, and III 27 kDa polypeptide

Chain E:

• Molecule 7: DNA-directed RNA polymerases I, II, and III 23 kDa polypeptide

Chain F:

• Molecule 8: DNA-directed RNA polymerases I, II, and III 14.5 kDa polypeptide

Chain H:

• Molecule 9: DNA-directed RNA polymerase II 14.2 kDa polypeptide

Chain I:
• Molecule 10: DNA-directed RNA polymerases I, II, and III 8.3 kDa polypeptide

Chain J:

• Molecule 11: DNA-directed RNA polymerase II 13.6 kDa polypeptide

Chain K:

• Molecule 12: DNA-directed RNA polymerases I, II, and III 7.7 kDa polypeptide

Chain L:
### 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>C 1 2 1</td>
<td>Depositor</td>
</tr>
<tr>
<td>Cell constants</td>
<td>167.08Å 221.26Å 193.69Å</td>
<td>Depositor</td>
</tr>
<tr>
<td>a, b, c, α, β, γ</td>
<td>90.00° 100.10° 90.00°</td>
<td>Depositor</td>
</tr>
<tr>
<td>Resolution (Å)</td>
<td>39.86 – 3.61</td>
<td>EDS</td>
</tr>
<tr>
<td>% Data completeness (in resolution range)</td>
<td>92.7 (39.86-3.61)</td>
<td>Depositor</td>
</tr>
<tr>
<td>R&lt;sub&gt;merge&lt;/sub&gt;</td>
<td>(Not available)</td>
<td>Depositor</td>
</tr>
<tr>
<td>R&lt;sub&gt;sym&lt;/sub&gt;</td>
<td>(Not available)</td>
<td>Depositor</td>
</tr>
<tr>
<td>&lt;I/σ(I)&gt;&lt;sup&gt;1&lt;/sup&gt;</td>
<td>1.13 (at 3.57Å)</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Refinement program</td>
<td>CNS 1.1</td>
<td>Depositor</td>
</tr>
<tr>
<td>R, R&lt;sub&gt;free&lt;/sub&gt;</td>
<td>0.315 , 0.343</td>
<td>Depositor</td>
</tr>
<tr>
<td></td>
<td>0.309 , 0.329</td>
<td>DCC</td>
</tr>
<tr>
<td>R&lt;sub&gt;free&lt;/sub&gt; test set</td>
<td>8031 reflections (10.04%)</td>
<td>wwPDB-VP</td>
</tr>
<tr>
<td>Wilson B-factor (Å&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>47.6</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Anisotropy</td>
<td>0.357</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Bulk solvent k&lt;sub&gt;sol&lt;/sub&gt;(e/Å&lt;sup&gt;3&lt;/sup&gt;), B&lt;sub&gt;sol&lt;/sub&gt;(Å&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>0.23 , -1.5</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>No twinning to report.</td>
<td>Xtriage</td>
</tr>
<tr>
<td>F&lt;sub&gt;a&lt;/sub&gt;,F&lt;sub&gt;c&lt;/sub&gt; correlation</td>
<td>0.76</td>
<td>EDS</td>
</tr>
<tr>
<td>Total number of atoms</td>
<td>28647</td>
<td>wwPDB-VP</td>
</tr>
<tr>
<td>Average B, all atoms (Å&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>53.0</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 2.72% 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: ZN, MG

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>R</td>
<td>0.67</td>
<td>0/244</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>0.75</td>
<td>0/311</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>0.88</td>
<td>15/11163 (0.1%)</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>0.84</td>
<td>7/8964 (0.1%)</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>0.78</td>
<td>0/2133</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>0.90</td>
<td>2/1788 (0.1%)</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>0.83</td>
<td>0/691</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>0.85</td>
<td>1/1086 (0.1%)</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>1.03</td>
<td>2/989 (0.2%)</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>0.78</td>
<td>0/541</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>0.74</td>
<td>0/937</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>0.99</td>
<td>1/366 (0.3%)</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>0.86</td>
<td>28/29213 (0.1%)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>#Chirality outliers</th>
<th>#Planarity outliers</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>T</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>1</td>
<td>22</td>
</tr>
</tbody>
</table>

All (28) bond length outliers are listed below:
### All (385) 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>3</td>
<td>A</td>
<td>321</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>-18.56</td>
<td>63.84</td>
<td>112.10</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>322</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>14.54</td>
<td>150.26</td>
<td>111.00</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>10</td>
<td>CYS</td>
<td>CA-CB-SG</td>
<td>12.01</td>
<td>135.61</td>
<td>114.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>315</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>11.82</td>
<td>142.50</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>478</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>-11.76</td>
<td>83.71</td>
<td>113.10</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>821</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>-11.71</td>
<td>79.39</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>431</td>
<td>TYR</td>
<td>N-CA-C</td>
<td>-11.40</td>
<td>80.23</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>259</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>11.33</td>
<td>141.58</td>
<td>111.00</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>78</td>
<td>CYS</td>
<td>CA-CB-SG</td>
<td>11.17</td>
<td>134.10</td>
<td>114.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>637</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>10.98</td>
<td>140.64</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>647</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>10.76</td>
<td>140.01</td>
<td>113.10</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>A</td>
<td>322</td>
<td>VAL</td>
<td>CB-CA-C</td>
<td>-10.69</td>
<td>91.10</td>
<td>111.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>258</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>10.58</td>
<td>139.54</td>
<td>113.10</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>120</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>10.58</td>
<td>139.56</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>635</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>10.53</td>
<td>139.44</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>320</td>
<td>ARG</td>
<td>CA-CB-CG</td>
<td>-10.52</td>
<td>90.26</td>
<td>113.40</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>479</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>9.91</td>
<td>84.24</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>69</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>9.64</td>
<td>137.03</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>868</td>
<td>MET</td>
<td>N-CA-C</td>
<td>-9.34</td>
<td>85.79</td>
<td>111.00</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>78</td>
<td>CYS</td>
<td>N-CA-CB</td>
<td>-9.19</td>
<td>94.05</td>
<td>110.60</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>257</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>8.96</td>
<td>135.18</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>283</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>8.96</td>
<td>135.49</td>
<td>113.10</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>55</td>
<td>ASP</td>
<td>N-CA-C</td>
<td>8.95</td>
<td>135.15</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>316</td>
<td>GLN</td>
<td>CB-CA-C</td>
<td>8.87</td>
<td>128.14</td>
<td>110.40</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>79</td>
<td>HIS</td>
<td>N-CA-C</td>
<td>8.87</td>
<td>134.96</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>170</td>
<td>THR</td>
<td>N-CA-C</td>
<td>8.79</td>
<td>134.73</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>249</td>
<td>SER</td>
<td>N-CA-C</td>
<td>8.66</td>
<td>134.38</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>121</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>-8.55</td>
<td>87.91</td>
<td>111.00</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>75</td>
<td>CYS</td>
<td>N-CA-C</td>
<td>-8.44</td>
<td>88.20</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>468</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>8.44</td>
<td>133.79</td>
<td>111.00</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>205</td>
<td>SER</td>
<td>N-CA-C</td>
<td>-8.42</td>
<td>88.26</td>
<td>111.00</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>137</td>
<td>GLN</td>
<td>N-CA-C</td>
<td>8.34</td>
<td>133.52</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>53</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>8.32</td>
<td>134.45</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1172</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>8.25</td>
<td>133.28</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1000</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-8.23</td>
<td>96.38</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>78</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>-8.18</td>
<td>90.83</td>
<td>112.10</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>484</td>
<td>ASN</td>
<td>N-CA-C</td>
<td>-8.17</td>
<td>88.93</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>893</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>8.15</td>
<td>134.05</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>230</td>
<td>ALA</td>
<td>C-N-CD</td>
<td>-8.14</td>
<td>102.68</td>
<td>120.60</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>430</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>8.13</td>
<td>132.96</td>
<td>111.00</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>16</td>
<td>ASP</td>
<td>N-CA-C</td>
<td>8.12</td>
<td>132.92</td>
<td>111.00</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>8</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>-8.06</td>
<td>89.24</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>317</td>
<td>LYS</td>
<td>C-N-CA</td>
<td>7.99</td>
<td>141.68</td>
<td>121.70</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>251</td>
<td>SER</td>
<td>N-CA-C</td>
<td>7.99</td>
<td>132.57</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>370</td>
<td>PHE</td>
<td>N-CA-C</td>
<td>-7.97</td>
<td>89.48</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>43</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>-7.93</td>
<td>89.59</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>475</td>
<td>SER</td>
<td>N-CA-C</td>
<td>-7.93</td>
<td>89.59</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>212</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-7.91</td>
<td>97.12</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>168</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>7.89</td>
<td>132.82</td>
<td>113.10</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>80</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>-7.88</td>
<td>89.73</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>981</td>
<td>ALA</td>
<td>N-CA-C</td>
<td>7.88</td>
<td>132.26</td>
<td>111.00</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>89</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>-7.87</td>
<td>89.75</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>712</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>-7.84</td>
<td>91.70</td>
<td>112.10</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>A</td>
<td>202</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-7.84</td>
<td>97.27</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1176</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>7.83</td>
<td>133.31</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>254</td>
<td>GLU</td>
<td>C-N-CA</td>
<td>7.83</td>
<td>141.26</td>
<td>121.70</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1111</td>
<td>MET</td>
<td>N-CA-C</td>
<td>7.80</td>
<td>132.07</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>223</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>7.71</td>
<td>132.38</td>
<td>113.10</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>324</td>
<td>SER</td>
<td>N-CA-C</td>
<td>7.71</td>
<td>131.81</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>183</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>7.67</td>
<td>132.26</td>
<td>113.10</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>102</td>
<td>VAL</td>
<td>CB-CA-C</td>
<td>-7.66</td>
<td>96.84</td>
<td>111.40</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>85</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>-7.63</td>
<td>94.02</td>
<td>113.10</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>163</td>
<td>SER</td>
<td>N-CA-C</td>
<td>7.62</td>
<td>131.59</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>318</td>
<td>SER</td>
<td>N-CA-C</td>
<td>-7.62</td>
<td>90.43</td>
<td>111.00</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>64</td>
<td>ASN</td>
<td>N-CA-C</td>
<td>7.60</td>
<td>131.52</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>317</td>
<td>LYS</td>
<td>N-CA-C</td>
<td>7.57</td>
<td>131.43</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>941</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>7.57</td>
<td>132.70</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>895</td>
<td>LYS</td>
<td>CD-CE-NZ</td>
<td>7.49</td>
<td>128.93</td>
<td>111.70</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>492</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-7.45</td>
<td>98.16</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>54</td>
<td>PHE</td>
<td>N-CA-C</td>
<td>-7.43</td>
<td>90.05</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>536</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>7.42</td>
<td>132.37</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>98</td>
<td>LYS</td>
<td>N-CA-C</td>
<td>-7.40</td>
<td>91.02</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1223</td>
<td>ASP</td>
<td>N-CA-C</td>
<td>7.38</td>
<td>130.92</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>173</td>
<td>THR</td>
<td>N-CA-C</td>
<td>-7.34</td>
<td>91.17</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>253</td>
<td>ASN</td>
<td>N-CA-C</td>
<td>7.30</td>
<td>130.71</td>
<td>111.00</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>100</td>
<td>THR</td>
<td>N-CA-C</td>
<td>-7.29</td>
<td>91.32</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>890</td>
<td>ASP</td>
<td>N-CA-C</td>
<td>-7.29</td>
<td>91.33</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1392</td>
<td>SER</td>
<td>N-CA-C</td>
<td>7.28</td>
<td>130.66</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1154</td>
<td>ALA</td>
<td>N-CA-C</td>
<td>-7.25</td>
<td>91.41</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>296</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>-7.25</td>
<td>91.44</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1221</td>
<td>SER</td>
<td>N-CA-C</td>
<td>7.24</td>
<td>130.53</td>
<td>111.00</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>157</td>
<td>SER</td>
<td>N-CA-C</td>
<td>7.23</td>
<td>130.51</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>275</td>
<td>TYR</td>
<td>CA-CB-CG</td>
<td>7.22</td>
<td>127.11</td>
<td>113.40</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>247</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>7.22</td>
<td>131.14</td>
<td>113.10</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>706</td>
<td>GLN</td>
<td>N-CA-C</td>
<td>-7.22</td>
<td>91.52</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>43</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-7.21</td>
<td>98.73</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>532</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>7.20</td>
<td>130.43</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>239</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>7.16</td>
<td>131.78</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>276</td>
<td>ILE</td>
<td>CB-CA-C</td>
<td>-7.15</td>
<td>97.29</td>
<td>111.60</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1067</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-7.15</td>
<td>98.86</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>50</td>
<td>ILE</td>
<td>CB-CA-C</td>
<td>-7.13</td>
<td>97.34</td>
<td>111.60</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1081</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>7.12</td>
<td>131.67</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>181</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-7.12</td>
<td>98.93</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>316</td>
<td>GLN</td>
<td>C-N-CA</td>
<td>7.11</td>
<td>139.47</td>
<td>121.70</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>E</td>
<td>39</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-7.11</td>
<td>98.95</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>595</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.11</td>
<td>123.85</td>
<td>120.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>330</td>
<td>LYS</td>
<td>N-CA-C</td>
<td>7.10</td>
<td>130.18</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>838</td>
<td>SER</td>
<td>N-CA-C</td>
<td>-7.10</td>
<td>91.84</td>
<td>111.00</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>121</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>-7.09</td>
<td>91.87</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>167</td>
<td>ILE</td>
<td>CB-CA-C</td>
<td>-7.07</td>
<td>97.47</td>
<td>111.60</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>10</td>
<td>CYS</td>
<td>CA-CB-SG</td>
<td>7.05</td>
<td>126.68</td>
<td>114.00</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>57</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-7.03</td>
<td>99.13</td>
<td>115.30</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>134</td>
<td>ASN</td>
<td>N-CA-C</td>
<td>-7.00</td>
<td>92.08</td>
<td>111.00</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>10</td>
<td>CYS</td>
<td>N-CA-C</td>
<td>6.99</td>
<td>129.87</td>
<td>111.00</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>83</td>
<td>GLN</td>
<td>N-CA-C</td>
<td>-6.98</td>
<td>92.14</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>81</td>
<td>PHE</td>
<td>N-CA-C</td>
<td>6.98</td>
<td>129.84</td>
<td>111.00</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>60</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>-6.97</td>
<td>98.06</td>
<td>113.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>179</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>6.93</td>
<td>131.23</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>531</td>
<td>ILE</td>
<td>N-CA-C</td>
<td>-6.92</td>
<td>92.33</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>473</td>
<td>MET</td>
<td>CA-C-N</td>
<td>-6.90</td>
<td>102.01</td>
<td>117.20</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>474</td>
<td>SER</td>
<td>N-CA-C</td>
<td>-6.90</td>
<td>92.36</td>
<td>111.00</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>167</td>
<td>HIS</td>
<td>N-CA-C</td>
<td>-6.89</td>
<td>92.41</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>99</td>
<td>LYS</td>
<td>N-CA-C</td>
<td>-6.87</td>
<td>92.46</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>21</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>6.86</td>
<td>129.53</td>
<td>111.00</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>41</td>
<td>SER</td>
<td>N-CA-C</td>
<td>6.84</td>
<td>129.47</td>
<td>111.00</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>77</td>
<td>LYS</td>
<td>C-N-CA</td>
<td>6.81</td>
<td>138.72</td>
<td>121.70</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1269</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>6.79</td>
<td>129.33</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1311</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>6.77</td>
<td>129.28</td>
<td>111.00</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>7</td>
<td>GLN</td>
<td>N-CA-C</td>
<td>6.76</td>
<td>129.26</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>236</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-6.73</td>
<td>99.82</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>550</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>6.72</td>
<td>130.76</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1229</td>
<td>SER</td>
<td>N-CA-C</td>
<td>-6.68</td>
<td>92.96</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1207</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>6.66</td>
<td>128.97</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>284</td>
<td>ALA</td>
<td>N-CA-C</td>
<td>6.65</td>
<td>128.96</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>236</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>6.65</td>
<td>128.95</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>868</td>
<td>MET</td>
<td>CG-SD-CE</td>
<td>6.65</td>
<td>110.83</td>
<td>100.20</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1128</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-6.64</td>
<td>100.02</td>
<td>115.30</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>151</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-6.64</td>
<td>100.03</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>265</td>
<td>SER</td>
<td>N-CA-C</td>
<td>6.62</td>
<td>128.86</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>451</td>
<td>HIS</td>
<td>CB-CA-C</td>
<td>-6.61</td>
<td>97.19</td>
<td>110.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>93</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>6.60</td>
<td>128.82</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>95</td>
<td>ILE</td>
<td>N-CA-C</td>
<td>-6.57</td>
<td>93.26</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>764</td>
<td>SER</td>
<td>C-N-CD</td>
<td>6.56</td>
<td>142.18</td>
<td>128.40</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>250</td>
<td>PHE</td>
<td>CB-CG-CD1</td>
<td>-6.55</td>
<td>116.21</td>
<td>120.80</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>702</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-6.54</td>
<td>100.27</td>
<td>115.30</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>E</td>
<td>5</td>
<td>ASN</td>
<td>N-CA-C</td>
<td>-6.53</td>
<td>93.38</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>254</td>
<td>GLU</td>
<td>CB-CA-C</td>
<td>6.51</td>
<td>123.43</td>
<td>110.40</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>431</td>
<td>TYR</td>
<td>CA-CB-CG</td>
<td>6.51</td>
<td>125.78</td>
<td>113.40</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>64</td>
<td>ASN</td>
<td>C-N-CD</td>
<td>-6.51</td>
<td>106.27</td>
<td>120.60</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1285</td>
<td>MET</td>
<td>CA-CB-CG</td>
<td>6.50</td>
<td>124.34</td>
<td>113.30</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>55</td>
<td>THR</td>
<td>N-CA-C</td>
<td>-6.49</td>
<td>93.49</td>
<td>111.00</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>26</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>6.47</td>
<td>128.48</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>908</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>6.46</td>
<td>130.17</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>335</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>-6.46</td>
<td>96.95</td>
<td>113.10</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>896</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>6.46</td>
<td>128.43</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>978</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>6.43</td>
<td>128.81</td>
<td>112.10</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>981</td>
<td>ALA</td>
<td>CA-C-N</td>
<td>-6.43</td>
<td>103.06</td>
<td>117.20</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>286</td>
<td>HIS</td>
<td>N-CA-C</td>
<td>6.42</td>
<td>128.32</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>254</td>
<td>GLU</td>
<td>CA-C-N</td>
<td>-6.41</td>
<td>103.10</td>
<td>117.20</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>461</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-6.39</td>
<td>100.59</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>533</td>
<td>LYS</td>
<td>CA-CB-CG</td>
<td>6.39</td>
<td>127.46</td>
<td>113.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>120</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>6.39</td>
<td>128.25</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>974</td>
<td>ASP</td>
<td>N-CA-C</td>
<td>6.34</td>
<td>128.13</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1256</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>6.33</td>
<td>128.09</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>315</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-6.33</td>
<td>100.25</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>973</td>
<td>ILE</td>
<td>N-CA-C</td>
<td>6.32</td>
<td>128.05</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>222</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>6.30</td>
<td>129.80</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>37</td>
<td>PHE</td>
<td>N-CA-C</td>
<td>-6.30</td>
<td>93.98</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>429</td>
<td>PHE</td>
<td>N-CA-C</td>
<td>-6.29</td>
<td>94.01</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>723</td>
<td>VAL</td>
<td>CA-CB-C</td>
<td>-6.29</td>
<td>99.45</td>
<td>111.40</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>637</td>
<td>LEU</td>
<td>CA-C-N</td>
<td>-6.29</td>
<td>103.37</td>
<td>117.20</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>318</td>
<td>SER</td>
<td>N-CA-CB</td>
<td>6.28</td>
<td>119.93</td>
<td>110.50</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>884</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>-6.27</td>
<td>94.07</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>636</td>
<td>PRO</td>
<td>CA-N-CD</td>
<td>-6.27</td>
<td>102.72</td>
<td>111.50</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>710</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>6.27</td>
<td>129.71</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>320</td>
<td>ARG</td>
<td>C-N-CD</td>
<td>-6.26</td>
<td>106.82</td>
<td>120.60</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>16</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>-6.26</td>
<td>94.09</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1405</td>
<td>THR</td>
<td>N-CA-C</td>
<td>6.26</td>
<td>127.90</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>723</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>6.25</td>
<td>127.87</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>323</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>-6.24</td>
<td>94.16</td>
<td>111.00</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>12</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-6.23</td>
<td>100.97</td>
<td>115.30</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>109</td>
<td>LYS</td>
<td>CA-C-N</td>
<td>-6.23</td>
<td>103.50</td>
<td>117.20</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>330</td>
<td>ALA</td>
<td>N-CA-C</td>
<td>-6.21</td>
<td>94.23</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>588</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-6.20</td>
<td>101.05</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>432</td>
<td>MET</td>
<td>N-CA-C</td>
<td>6.20</td>
<td>127.74</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>252</td>
<td>SER</td>
<td>N-CA-C</td>
<td>6.20</td>
<td>127.73</td>
<td>111.00</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>31</td>
<td>THR</td>
<td>N-CA-C</td>
<td>-6.18</td>
<td>94.31</td>
<td>111.00</td>
</tr>
</tbody>
</table>

Continued on next page...
### Mol | Chain | Res | Type | Atoms | Z | Observed(°) | Ideal(°)
--- | --- | --- | --- | --- | --- | --- | ---
6 | E | 53 | PRO | C-N-CA | -6.17 | 106.26 | 121.70
11 | K | 20 | LYS | N-CA-C | -6.16 | 94.37 | 111.00
4 | B | 473 | MET | CB-CA-C | 6.16 | 122.71 | 110.40
3 | A | 1445 | ILE | N-CA-C | 6.15 | 127.61 | 111.00
3 | A | 289 | ILE | N-CA-C | -6.15 | 94.40 | 111.00
9 | I | 118 | ARG | CB-CA-C | -6.13 | 98.14 | 110.40
3 | A | 398 | GLU | N-CA-C | -6.12 | 94.47 | 111.00
4 | B | 1168 | LEU | N-CA-C | 6.12 | 127.52 | 111.00
4 | B | 473 | MET | CB-CG-SD | 6.11 | 130.73 | 112.40
7 | F | 105 | ALA | N-CA-C | -6.09 | 94.54 | 111.00
3 | A | 7 | SER | N-CA-C | -6.09 | 94.57 | 111.00
4 | B | 250 | PHE | N-CA-C | -6.08 | 94.58 | 111.00
3 | A | 547 | LEU | CA-CB-CG | -6.08 | 101.32 | 115.30
9 | I | 74 | GLU | CA-CB-CG | -6.08 | 100.03 | 113.40
8 | H | 110 | ASP | N-CA-CB | -6.07 | 99.67 | 110.60
6 | E | 107 | THR | N-CA-C | 6.06 | 127.36 | 111.00
4 | B | 1096 | ARG | N-CA-C | -6.06 | 94.65 | 111.00
4 | B | 222 | ILE | CA-C-N | -6.05 | 103.89 | 117.20
8 | H | 62 | SER | N-CA-C | 6.04 | 127.32 | 111.00
3 | A | 67 | CYS | N-CA-C | -6.04 | 94.69 | 111.00
9 | I | 18 | GLU | N-CA-C | 6.03 | 127.27 | 111.00
12 | L | 44 | ASP | N-CA-C | -6.02 | 94.75 | 111.00
4 | B | 68 | THR | N-CA-C | 6.00 | 127.19 | 111.00
3 | A | 152 | VAL | N-CA-C | 5.99 | 127.18 | 111.00
5 | C | 109 | SER | N-CA-C | 5.98 | 127.14 | 111.00
3 | A | 1121 | GLU | N-CA-C | -5.98 | 94.86 | 111.00
3 | A | 906 | HIS | CB-CA-C | -5.97 | 98.46 | 110.40
2 | T | 3 | DG | N9-C1'-C2' | -5.97 | 101.26 | 112.60
12 | L | 49 | LYS | C-N-CA | 5.96 | 136.59 | 121.70
9 | I | 118 | ARG | N-CA-C | 5.94 | 127.04 | 111.00
3 | A | 1053 | PHE | N-CA-C | -5.94 | 94.97 | 111.00
3 | A | 257 | ARG | CB-CA-C | 5.93 | 124.26 | 111.80
4 | B | 511 | PRO | CA-CD-NE | 5.93 | 127.51 | 112.10
3 | A | 740 | LEU | CA-CB-CG | -5.93 | 101.67 | 115.30
3 | A | 702 | LEU | CA-CB-CG | 5.92 | 128.95 | 115.30
4 | B | 1184 | GLY | N-CA-C | -5.92 | 98.30 | 113.10
4 | B | 250 | PHE | CB-CG-CD2 | 5.91 | 124.94 | 120.80
2 | T | 6 | DC | N1-C1'-C2' | -5.88 | 101.42 | 112.60
4 | B | 638 | PHE | N-CA-CB | 5.88 | 121.19 | 110.60
4 | B | 222 | ILE | C-N-CA | 5.88 | 136.40 | 121.70
4 | B | 1066 | SER | N-CA-C | 5.88 | 126.87 | 111.00

Continued from previous page...
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>A</td>
<td>161</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.88</td>
<td>128.81</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1381</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>-5.87</td>
<td>95.14</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>590</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.87</td>
<td>123.23</td>
<td>120.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>708</td>
<td>MET</td>
<td>CA-CB-CG</td>
<td>5.87</td>
<td>123.28</td>
<td>113.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>895</td>
<td>LYS</td>
<td>CA-CB-CG</td>
<td>5.86</td>
<td>126.30</td>
<td>113.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1094</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>5.86</td>
<td>126.81</td>
<td>111.00</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>139</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>5.85</td>
<td>127.73</td>
<td>113.10</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>173</td>
<td>ALA</td>
<td>N-CA-C</td>
<td>5.85</td>
<td>126.80</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>177</td>
<td>ASP</td>
<td>N-CA-C</td>
<td>-5.84</td>
<td>95.22</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>648</td>
<td>HIS</td>
<td>N-CA-C</td>
<td>5.82</td>
<td>126.72</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>227</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>5.82</td>
<td>126.71</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>638</td>
<td>PHE</td>
<td>CA-CB-C</td>
<td>-5.81</td>
<td>98.78</td>
<td>110.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>569</td>
<td>LYS</td>
<td>N-CA-C</td>
<td>-5.80</td>
<td>95.33</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>320</td>
<td>ARG</td>
<td>CB-CA-C</td>
<td>5.79</td>
<td>121.98</td>
<td>110.40</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>276</td>
<td>ILE</td>
<td>N-CA-C</td>
<td>5.79</td>
<td>126.63</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>249</td>
<td>SER</td>
<td>C-N-CA</td>
<td>5.78</td>
<td>136.16</td>
<td>121.70</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>315</td>
<td>LEU</td>
<td>CB-CA-C</td>
<td>-5.78</td>
<td>99.21</td>
<td>110.20</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1155</td>
<td>ASP</td>
<td>N-CA-C</td>
<td>-5.78</td>
<td>95.40</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>340</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-5.76</td>
<td>102.05</td>
<td>115.30</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>183</td>
<td>TRP</td>
<td>N-CA-C</td>
<td>-5.76</td>
<td>95.45</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>568</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>5.72</td>
<td>126.97</td>
<td>112.10</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>3</td>
<td>VAL</td>
<td>C-N-CA</td>
<td>-5.72</td>
<td>97.99</td>
<td>122.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>285</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>5.71</td>
<td>126.95</td>
<td>112.10</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1166</td>
<td>CYS</td>
<td>CA-CB-SG</td>
<td>5.69</td>
<td>124.25</td>
<td>114.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1005</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>5.69</td>
<td>126.36</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1391</td>
<td>ARG</td>
<td>CG-CD-NE</td>
<td>5.68</td>
<td>123.73</td>
<td>111.80</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>175</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.66</td>
<td>128.31</td>
<td>115.30</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>7</td>
<td>DC</td>
<td>N1-C1'-C2'</td>
<td>-5.65</td>
<td>101.87</td>
<td>112.60</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>152</td>
<td>VAL</td>
<td>C-N-CD</td>
<td>-5.64</td>
<td>108.19</td>
<td>120.60</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>993</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>-5.64</td>
<td>95.77</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>431</td>
<td>TYR</td>
<td>CB-CA-C</td>
<td>5.63</td>
<td>121.67</td>
<td>110.40</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>77</td>
<td>ASP</td>
<td>CB-CA-C</td>
<td>-5.62</td>
<td>99.16</td>
<td>110.40</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>81</td>
<td>TYR</td>
<td>CA-CB-CG</td>
<td>5.60</td>
<td>124.04</td>
<td>113.40</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>52</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>5.60</td>
<td>127.10</td>
<td>113.10</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>865</td>
<td>LYS</td>
<td>CD-CE-NZ</td>
<td>5.59</td>
<td>124.57</td>
<td>111.70</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>130</td>
<td>ILE</td>
<td>C-N-CD</td>
<td>-5.58</td>
<td>108.31</td>
<td>120.60</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>22</td>
<td>PHE</td>
<td>N-CA-C</td>
<td>5.58</td>
<td>126.06</td>
<td>111.00</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>127</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>-5.58</td>
<td>95.94</td>
<td>111.00</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>133</td>
<td>ASN</td>
<td>CB-CA-C</td>
<td>-5.58</td>
<td>99.25</td>
<td>110.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1017</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-5.56</td>
<td>102.51</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1157</td>
<td>ALA</td>
<td>N-CA-C</td>
<td>-5.56</td>
<td>95.99</td>
<td>111.00</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>E</td>
<td>197</td>
<td>LYS</td>
<td>N-CA-C</td>
<td>-5.55</td>
<td>96.01</td>
<td>111.00</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>58</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>-5.53</td>
<td>96.06</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>132</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>5.53</td>
<td>125.93</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>60</td>
<td>SER</td>
<td>N-CA-C</td>
<td>5.52</td>
<td>125.92</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>305</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>5.50</td>
<td>125.84</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>67</td>
<td>CYS</td>
<td>CA-CB-SG</td>
<td>5.49</td>
<td>123.89</td>
<td>114.00</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>5</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.48</td>
<td>117.56</td>
<td>120.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>972</td>
<td>HIS</td>
<td>C-N-CA</td>
<td>5.48</td>
<td>135.41</td>
<td>121.70</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>326</td>
<td>ASP</td>
<td>N-CA-C</td>
<td>5.48</td>
<td>125.80</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>391</td>
<td>VAL</td>
<td>CA-CB-CG</td>
<td>5.48</td>
<td>127.90</td>
<td>115.30</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>99</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.48</td>
<td>127.70</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1283</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>5.41</td>
<td>125.61</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>50</td>
<td>ILE</td>
<td>N-CA-C</td>
<td>5.41</td>
<td>125.61</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>113</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>5.41</td>
<td>96.41</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1122</td>
<td>PRO</td>
<td>N-CA-CB</td>
<td>5.40</td>
<td>126.14</td>
<td>112.10</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>764</td>
<td>SER</td>
<td>N-CA-C</td>
<td>5.40</td>
<td>125.58</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>223</td>
<td>VAL</td>
<td>N-CA-CB</td>
<td>-5.39</td>
<td>99.63</td>
<td>111.50</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>711</td>
<td>GLU</td>
<td>C-N-CD</td>
<td>-5.39</td>
<td>108.73</td>
<td>120.60</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>154</td>
<td>LYS</td>
<td>CD-CE-NZ</td>
<td>5.39</td>
<td>124.11</td>
<td>111.70</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>646</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.39</td>
<td>127.70</td>
<td>115.30</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>111</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.39</td>
<td>127.70</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>253</td>
<td>THR</td>
<td>N-CA-C</td>
<td>5.38</td>
<td>125.53</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>181</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-5.37</td>
<td>102.95</td>
<td>115.30</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>78</td>
<td>CYS</td>
<td>N-CA-C</td>
<td>5.37</td>
<td>125.48</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>591</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>-5.35</td>
<td>96.56</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>58</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.34</td>
<td>127.59</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>256</td>
<td>GLN</td>
<td>C-N-CA</td>
<td>5.34</td>
<td>135.06</td>
<td>121.70</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>636</td>
<td>PRO</td>
<td>CA-C-N</td>
<td>-5.34</td>
<td>105.45</td>
<td>117.20</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>316</td>
<td>GLN</td>
<td>CA-C-N</td>
<td>-5.34</td>
<td>105.46</td>
<td>117.20</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>A</td>
<td>1270</td>
<td>ASN</td>
<td>N-CA-C</td>
<td>-5.34</td>
<td>96.59</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>56</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>5.33</td>
<td>125.97</td>
<td>112.10</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>49</td>
<td>ILE</td>
<td>N-CA-C</td>
<td>-5.33</td>
<td>96.61</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>888</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>5.32</td>
<td>126.40</td>
<td>113.10</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>634</td>
<td>TYR</td>
<td>C-N-CA</td>
<td>-5.32</td>
<td>108.41</td>
<td>121.70</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>11</td>
<td>ASN</td>
<td>N-CA-CB</td>
<td>5.32</td>
<td>120.17</td>
<td>110.60</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>74</td>
<td>ILE</td>
<td>C-N-CD</td>
<td>-5.31</td>
<td>108.91</td>
<td>120.60</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>5</td>
<td>VAL</td>
<td>N-CA-C</td>
<td>-5.31</td>
<td>96.66</td>
<td>111.00</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>30</td>
<td>ILE</td>
<td>N-CA-C</td>
<td>-5.31</td>
<td>96.66</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>317</td>
<td>LYS</td>
<td>CA-C-N</td>
<td>-5.31</td>
<td>105.53</td>
<td>117.20</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>380</td>
<td>VAL</td>
<td>CB-CA-C</td>
<td>-5.31</td>
<td>101.32</td>
<td>111.40</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>217</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>-5.31</td>
<td>113.53</td>
<td>118.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>599</td>
<td>SER</td>
<td>C-N-CD</td>
<td>5.30</td>
<td>139.53</td>
<td>128.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>901</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-5.29</td>
<td>103.12</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1180</td>
<td>PHE</td>
<td>N-CA-C</td>
<td>5.29</td>
<td>125.28</td>
<td>111.00</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>39</td>
<td>SER</td>
<td>N-CA-C</td>
<td>-5.29</td>
<td>96.72</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1193</td>
<td>GLN</td>
<td>N-CA-C</td>
<td>-5.28</td>
<td>96.73</td>
<td>111.00</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>110</td>
<td>ASP</td>
<td>N-CA-C</td>
<td>-5.28</td>
<td>96.74</td>
<td>111.00</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>27</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.28</td>
<td>127.44</td>
<td>115.30</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>2</td>
<td>ILE</td>
<td>N-CA-C</td>
<td>5.27</td>
<td>125.23</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1289</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>5.27</td>
<td>125.23</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1192</td>
<td>TYR</td>
<td>N-CA-C</td>
<td>5.27</td>
<td>125.22</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>595</td>
<td>ARG</td>
<td>CB-CG-CG</td>
<td>5.26</td>
<td>125.29</td>
<td>111.60</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>74</td>
<td>MET</td>
<td>N-CA-C</td>
<td>5.25</td>
<td>125.17</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>253</td>
<td>ASN</td>
<td>C-N-CA</td>
<td>5.24</td>
<td>134.79</td>
<td>121.70</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>252</td>
<td>PHE</td>
<td>CA-C-N</td>
<td>-5.23</td>
<td>105.69</td>
<td>117.20</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>883</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>5.23</td>
<td>125.11</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>918</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>-5.21</td>
<td>96.93</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1227</td>
<td>ILE</td>
<td>CB-CA-C</td>
<td>-5.21</td>
<td>101.19</td>
<td>111.60</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>854</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>-5.20</td>
<td>103.34</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>167</td>
<td>ILE</td>
<td>N-CA-C</td>
<td>-5.19</td>
<td>96.98</td>
<td>111.00</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>10</td>
<td>CYS</td>
<td>N-CA-CB</td>
<td>-5.19</td>
<td>101.27</td>
<td>110.60</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>481</td>
<td>ASP</td>
<td>N-CA-CB</td>
<td>5.18</td>
<td>119.93</td>
<td>110.60</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1112</td>
<td>LYS</td>
<td>N-CA-C</td>
<td>5.18</td>
<td>125.00</td>
<td>111.00</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>53</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>5.18</td>
<td>125.58</td>
<td>112.10</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>867</td>
<td>ILE</td>
<td>CB-CA-C</td>
<td>-5.18</td>
<td>101.23</td>
<td>111.60</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1278</td>
<td>ASN</td>
<td>N-CA-C</td>
<td>5.18</td>
<td>124.99</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>901</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>5.17</td>
<td>125.55</td>
<td>112.10</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>239</td>
<td>GLU</td>
<td>CA-CB-CG</td>
<td>5.16</td>
<td>124.76</td>
<td>113.40</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>141</td>
<td>TYR</td>
<td>N-CA-C</td>
<td>-5.16</td>
<td>97.06</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>707</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>-5.16</td>
<td>98.69</td>
<td>112.10</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>5</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>5.16</td>
<td>125.99</td>
<td>113.10</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>I</td>
<td>17</td>
<td>ARG</td>
<td>CG-CD-NE</td>
<td>-5.16</td>
<td>100.97</td>
<td>111.80</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>9</td>
<td>LYS</td>
<td>N-CA-C</td>
<td>-5.15</td>
<td>97.09</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>384</td>
<td>ASN</td>
<td>N-CA-C</td>
<td>5.14</td>
<td>124.88</td>
<td>111.00</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>41</td>
<td>SER</td>
<td>N-CA-CB</td>
<td>-5.14</td>
<td>102.79</td>
<td>110.50</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>250</td>
<td>ILE</td>
<td>N-CA-C</td>
<td>5.14</td>
<td>124.88</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1313</td>
<td>LEU</td>
<td>N-CA-C</td>
<td>-5.14</td>
<td>97.12</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>461</td>
<td>LEU</td>
<td>CB-CG-CD1</td>
<td>-5.14</td>
<td>102.27</td>
<td>111.00</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>132</td>
<td>ILE</td>
<td>CG1-CB-CG2</td>
<td>5.13</td>
<td>122.69</td>
<td>111.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>255</td>
<td>SER</td>
<td>CB-CA-C</td>
<td>5.13</td>
<td>119.84</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>147</td>
<td>VAL</td>
<td>CB-CA-C</td>
<td>-5.12</td>
<td>101.67</td>
<td>111.40</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>61</td>
<td>ASP</td>
<td>CB-CA-C</td>
<td>-5.12</td>
<td>100.16</td>
<td>110.40</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>3</td>
<td>THR</td>
<td>CA-CB-CG2</td>
<td>-5.12</td>
<td>105.23</td>
<td>112.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>417</td>
<td>TYR</td>
<td>N-CA-C</td>
<td>-5.12</td>
<td>97.19</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1109</td>
<td>LYS</td>
<td>N-CA-C</td>
<td>-5.12</td>
<td>97.19</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>510</td>
<td>LYS</td>
<td>N-CA-C</td>
<td>5.12</td>
<td>124.81</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1294</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>-5.11</td>
<td>98.81</td>
<td>112.10</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1127</td>
<td>ASP</td>
<td>N-CA-C</td>
<td>-5.11</td>
<td>97.20</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1214</td>
<td>PRO</td>
<td>N-CA-C</td>
<td>-5.11</td>
<td>98.83</td>
<td>112.10</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>62</td>
<td>SER</td>
<td>N-CA-CB</td>
<td>-5.10</td>
<td>102.85</td>
<td>110.50</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>56</td>
<td>VAL</td>
<td>CB-CA-C</td>
<td>-5.09</td>
<td>101.72</td>
<td>111.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1002</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>5.09</td>
<td>125.83</td>
<td>113.10</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1403</td>
<td>GLU</td>
<td>N-CA-C</td>
<td>5.09</td>
<td>124.74</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>254</td>
<td>GLU</td>
<td>CA-CB-CG</td>
<td>-5.08</td>
<td>102.23</td>
<td>113.40</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>122</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.08</td>
<td>126.98</td>
<td>115.30</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>238</td>
<td>ALA</td>
<td>N-CA-C</td>
<td>-5.08</td>
<td>97.29</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>602</td>
<td>ASP</td>
<td>N-CA-C</td>
<td>-5.07</td>
<td>97.30</td>
<td>111.00</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>36</td>
<td>CYS</td>
<td>N-CA-C</td>
<td>5.07</td>
<td>124.69</td>
<td>111.00</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>888</td>
<td>GLY</td>
<td>N-CA-C</td>
<td>5.07</td>
<td>125.76</td>
<td>113.10</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>192</td>
<td>ARG</td>
<td>N-CA-C</td>
<td>-5.07</td>
<td>97.32</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1285</td>
<td>MET</td>
<td>CB-CG-SD</td>
<td>5.06</td>
<td>127.59</td>
<td>112.40</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>578</td>
<td>THR</td>
<td>N-CA-C</td>
<td>-5.05</td>
<td>97.35</td>
<td>111.00</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>217</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>5.04</td>
<td>122.84</td>
<td>118.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>115</td>
<td>LEU</td>
<td>CA-CB-CG</td>
<td>5.04</td>
<td>126.89</td>
<td>115.30</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>878</td>
<td>ILE</td>
<td>N-CA-C</td>
<td>5.02</td>
<td>124.56</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>154</td>
<td>SER</td>
<td>N-CA-C</td>
<td>5.02</td>
<td>124.55</td>
<td>111.00</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>447</td>
<td>GLN</td>
<td>C-N-CD</td>
<td>5.01</td>
<td>138.93</td>
<td>128.40</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>137</td>
<td>CYS</td>
<td>N-CA-C</td>
<td>-5.00</td>
<td>97.49</td>
<td>111.00</td>
</tr>
</tbody>
</table>

All (1) chirality outliers are listed below:

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

All (22) planarity outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>A</td>
<td>322</td>
<td>VAL</td>
<td>CA</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1035</td>
<td>TYR</td>
<td>Sidechain</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>320</td>
<td>ARG</td>
<td>Mainchain</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>322</td>
<td>VAL</td>
<td>Mainchain</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>376</td>
<td>TYR</td>
<td>Sidechain</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>6</td>
<td>TYR</td>
<td>Sidechain</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>814</td>
<td>PHE</td>
<td>Sidechain</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>250</td>
<td>PHE</td>
<td>Sidechain</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>275</td>
<td>TYR</td>
<td>Sidechain</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>431</td>
<td>TYR</td>
<td>Sidechain</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>636</td>
<td>PRO</td>
<td>Mainchain</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>638</td>
<td>PHE</td>
<td>Sidechain</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>797</td>
<td>TYR</td>
<td>Sidechain</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>798</td>
<td>TYR</td>
<td>Sidechain</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>114</td>
<td>TYR</td>
<td>Sidechain</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>209</td>
<td>TYR</td>
<td>Sidechain</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>187</td>
<td>TYR</td>
<td>Sidechain</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>4</td>
<td>PHE</td>
<td>Sidechain</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>10</td>
<td>DT</td>
<td>Sidechain</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>11</td>
<td>DC</td>
<td>Sidechain</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>13</td>
<td>DA</td>
<td>Sidechain</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>6</td>
<td>DC</td>
<td>Sidechain</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>8</td>
<td>DT</td>
<td>Sidechain</td>
</tr>
</tbody>
</table>

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Non-H</th>
<th>H(model)</th>
<th>H(added)</th>
<th>Clashes</th>
<th>Symm-Clashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>R</td>
<td>217</td>
<td>0</td>
<td>110</td>
<td>18</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>279</td>
<td>0</td>
<td>160</td>
<td>43</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>10969</td>
<td>0</td>
<td>11070</td>
<td>2106</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>8793</td>
<td>0</td>
<td>8823</td>
<td>1592</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Non-H</th>
<th>H(model)</th>
<th>H(added)</th>
<th>Clashes</th>
<th>Symm-Clashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>C</td>
<td>2095</td>
<td>0</td>
<td>2051</td>
<td>337</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>1752</td>
<td>0</td>
<td>1776</td>
<td>303</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>679</td>
<td>0</td>
<td>701</td>
<td>127</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>1068</td>
<td>0</td>
<td>1040</td>
<td>193</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>T</td>
<td>971</td>
<td>0</td>
<td>929</td>
<td>164</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>532</td>
<td>0</td>
<td>542</td>
<td>125</td>
<td>0</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>919</td>
<td>0</td>
<td>929</td>
<td>175</td>
<td>0</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>364</td>
<td>0</td>
<td>387</td>
<td>65</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>A</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>B</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>C</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>I</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>J</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>L</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>14</td>
<td>A</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>28647</td>
<td>0</td>
<td>28518</td>
<td>4858</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 85.

All (4858) 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>4:B:635:ARG:HB2</td>
<td>4:B:636:PRO:CD</td>
<td>1.65</td>
<td>1.21</td>
</tr>
<tr>
<td>4:B:477:ALA:HB3</td>
<td>4:B:479:VAL:HG22</td>
<td>1.21</td>
<td>1.16</td>
</tr>
<tr>
<td>4:B:1175:LEU:O</td>
<td>4:B:1176:ASN:HB2</td>
<td>1.40</td>
<td>1.16</td>
</tr>
<tr>
<td>2:T:2:DC:H2′</td>
<td>2:T:3:DG:C8</td>
<td>1.82</td>
<td>1.15</td>
</tr>
<tr>
<td>4:B:174:LEU:HD22</td>
<td>4:B:204:ILE:HD11</td>
<td>1.20</td>
<td>1.15</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>4:B:471:LYS:HG3</td>
<td>4:B:472:ALA:H</td>
<td>0.97</td>
<td>1.14</td>
</tr>
<tr>
<td>5:C:3:GLU:HG3</td>
<td>5:C:4:GLU:H</td>
<td>0.10</td>
<td>1.13</td>
</tr>
<tr>
<td>5:C:22:LEU:CD2</td>
<td>5:C:25:VAL:HG21</td>
<td>1.80</td>
<td>1.11</td>
</tr>
<tr>
<td>3:A:1161:THR:HG22</td>
<td>3:A:1163:ILE:H</td>
<td>0.96</td>
<td>1.10</td>
</tr>
<tr>
<td>4:B:474:SER:HA</td>
<td>4:B:476:ARG:HG3</td>
<td>1.29</td>
<td>1.10</td>
</tr>
<tr>
<td>4:B:1051:THR:HG22</td>
<td>4:B:1053:GLU:H</td>
<td>1.10</td>
<td>1.09</td>
</tr>
<tr>
<td>4:B:549:THR:HG22</td>
<td>4:B:550:ASP:H</td>
<td>0.99</td>
<td>1.09</td>
</tr>
<tr>
<td>4:B:658:ILE:HA</td>
<td>4:B:661:LEU:HD12</td>
<td>1.35</td>
<td>1.09</td>
</tr>
<tr>
<td>4:B:471:LYS:HG3</td>
<td>4:B:472:ALA:N</td>
<td>1.63</td>
<td>1.09</td>
</tr>
<tr>
<td>4:B:711:GLU:H</td>
<td>4:B:712:PRO:HD3</td>
<td>1.05</td>
<td>1.08</td>
</tr>
<tr>
<td>4:B:169:ARG:HB2</td>
<td>4:B:454:THR:HG23</td>
<td>1.35</td>
<td>1.08</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>4:B:1103:ILE:HD13</td>
<td>4:B:1103:ILE:N</td>
<td>1.70</td>
<td>1.07</td>
</tr>
<tr>
<td>8:H:32:THR:HG22</td>
<td>8:H:33:GLN:HG2</td>
<td>1.32</td>
<td>1.06</td>
</tr>
<tr>
<td>4:B:464:GLY:HA3</td>
<td>4:B:478:GLY:HA2</td>
<td>1.38</td>
<td>1.05</td>
</tr>
<tr>
<td>4:B:917:PRO:HA</td>
<td>4:B:933:SER:O</td>
<td>1.54</td>
<td>1.05</td>
</tr>
<tr>
<td>4:B:635:ARG:HD2</td>
<td>4:B:636:PRO:HD3</td>
<td>1.32</td>
<td>1.05</td>
</tr>
<tr>
<td>3:A:913:LEU:HD12</td>
<td>3:A:914:GLU:H</td>
<td>0.93</td>
<td>1.05</td>
</tr>
<tr>
<td>4:B:235:SER:O</td>
<td>4:B:236:HIS:ND1</td>
<td>1.87</td>
<td>1.05</td>
</tr>
<tr>
<td>5:C:60:ASP:HB3</td>
<td>12:L:67:PHE:CE1</td>
<td>1.91</td>
<td>1.05</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>5:C:18:VAL:HG23</td>
<td>5:C:240:VAL:HG11</td>
<td>1.36</td>
<td>1.03</td>
</tr>
<tr>
<td>3:A:452:LYS:HB2</td>
<td>4:B:1141:HIS:CE1</td>
<td>1.93</td>
<td>1.03</td>
</tr>
<tr>
<td>5:C:60:ASP:HB3</td>
<td>12:L:67:PHE:HE1</td>
<td>1.18</td>
<td>1.03</td>
</tr>
<tr>
<td>4:B:329:THR:HA</td>
<td>4:B:332:ASP:HB2</td>
<td>1.36</td>
<td>1.02</td>
</tr>
<tr>
<td>5:C:3:GLU:HG3</td>
<td>5:C:4:GLU:N</td>
<td>1.74</td>
<td>1.02</td>
</tr>
<tr>
<td>5:C:57:VAL:HG11</td>
<td>10:J:60:PHE:HB2</td>
<td>1.40</td>
<td>1.02</td>
</tr>
<tr>
<td>12:L:51:CYS:O</td>
<td>12:L:51:CYS:SG</td>
<td>2.18</td>
<td>1.01</td>
</tr>
<tr>
<td>4:B:634:TYR:HE1</td>
<td>4:B:692:TYR:CD1</td>
<td>1.78</td>
<td>1.01</td>
</tr>
<tr>
<td>4:B:635:ARG:HB2</td>
<td>4:B:636:PRO:HD3</td>
<td>1.03</td>
<td>1.01</td>
</tr>
<tr>
<td>2:T:6:DC:H2</td>
<td>2:T:7:DC:H5'</td>
<td>1.41</td>
<td>1.01</td>
</tr>
<tr>
<td>4:B:473:MET:C</td>
<td>4:B:475:SER:H</td>
<td>1.46</td>
<td>1.01</td>
</tr>
<tr>
<td>4:B:701:ILE:HB</td>
<td>4:B:740:HIS:HE1</td>
<td>1.22</td>
<td>1.00</td>
</tr>
<tr>
<td>5:C:133:ILE:O</td>
<td>5:C:134:ILE:HD13</td>
<td>1.59</td>
<td>1.00</td>
</tr>
<tr>
<td>2:T:1:DA:H2</td>
<td>2:T:2:DC:O5'</td>
<td>1.57</td>
<td>1.00</td>
</tr>
<tr>
<td>4:B:1165:ILE:HG22</td>
<td>4:B:1166:CYS:N</td>
<td>1.75</td>
<td>1.00</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:C:46:ILE:HD13</td>
<td>5:C:159:ALA:HB2</td>
<td>1.42</td>
<td>1.00</td>
</tr>
<tr>
<td>5:C:44:LEU:HB2</td>
<td>5:C:77:ILE:HD11</td>
<td>1.03</td>
<td>0.99</td>
</tr>
<tr>
<td>3:A:530:GLY:C</td>
<td>3:A:532:ARG:N</td>
<td>2.03</td>
<td>0.99</td>
</tr>
<tr>
<td>4:B:1084:GLN:NE2</td>
<td>5:C:191:TYR:HA</td>
<td>1.77</td>
<td>0.99</td>
</tr>
<tr>
<td>4:B:1002:THR:HG21</td>
<td>4:B:1006:ILE:HB</td>
<td>1.41</td>
<td>0.99</td>
</tr>
<tr>
<td>4:B:256:VAL:HG11</td>
<td>4:B:382:ILE:CD1</td>
<td>1.93</td>
<td>0.98</td>
</tr>
<tr>
<td>4:B:955:THR:HG22</td>
<td>4:B:956:THR:N</td>
<td>1.72</td>
<td>0.98</td>
</tr>
<tr>
<td>6:E:113:GLN:HA</td>
<td>6:E:137:GLU:HG3</td>
<td>1.45</td>
<td>0.98</td>
</tr>
<tr>
<td>4:B:1103:ILE:HD13</td>
<td>4:B:1103:ILE:H</td>
<td>1.27</td>
<td>0.98</td>
</tr>
<tr>
<td>4:B:168:GLY:HA2</td>
<td>4:B:454:THR:OG1</td>
<td>1.64</td>
<td>0.98</td>
</tr>
<tr>
<td>5:C:229:TYR:HD1</td>
<td>5:C:229:TYR:N</td>
<td>1.62</td>
<td>0.98</td>
</tr>
<tr>
<td>8:H:116:TYR:HB2</td>
<td>8:H:123:MET:HB3</td>
<td>1.46</td>
<td>0.98</td>
</tr>
<tr>
<td>11:K:51:LEU:CD1</td>
<td>11:K:59:ALA:HB3</td>
<td>1.93</td>
<td>0.98</td>
</tr>
<tr>
<td>3:A:1004:ASN:HD22</td>
<td>6:E:167:ARG:HD2</td>
<td>0.84</td>
<td>0.97</td>
</tr>
<tr>
<td>4:B:563:MET:O</td>
<td>4:B:563:MET:HG3</td>
<td>1.61</td>
<td>0.97</td>
</tr>
<tr>
<td>4:B:711:GLU:N</td>
<td>4:B:712:PRO:HD3</td>
<td>1.76</td>
<td>0.97</td>
</tr>
<tr>
<td>5:C:258:ILE:HD11</td>
<td>11:K:42:LEU:HD21</td>
<td>1.45</td>
<td>0.97</td>
</tr>
<tr>
<td>4:B:274:PRO:O</td>
<td>4:B:276:ILE:N</td>
<td>1.97</td>
<td>0.97</td>
</tr>
<tr>
<td>5:C:260:LEU:O</td>
<td>5:C:264:GLN:HG3</td>
<td>1.64</td>
<td>0.97</td>
</tr>
<tr>
<td>8:H:81:PRO:HB2</td>
<td>8:H:82:PRO:CD</td>
<td>1.94</td>
<td>0.97</td>
</tr>
<tr>
<td>4:B:698:GLU:O</td>
<td>4:B:701:ILE:HD12</td>
<td>1.63</td>
<td>0.97</td>
</tr>
<tr>
<td>4:B:846:ILE:HG23</td>
<td>4:B:974:PRO:HG2</td>
<td>1.43</td>
<td>0.97</td>
</tr>
<tr>
<td>4:B:549:THR:HG22</td>
<td>4:B:550:ASP:N</td>
<td>1.77</td>
<td>0.96</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>5:C:194:GLU:O</td>
<td>5:C:195:GLN:HG3</td>
<td>1.64</td>
<td>0.96</td>
</tr>
<tr>
<td>4:B:977:GLY:CA</td>
<td>4:B:1099:VAL:HG21</td>
<td>1.95</td>
<td>0.96</td>
</tr>
<tr>
<td>4:B:780:VAL:HG21</td>
<td>10:J:56:LEU:CD1</td>
<td>1.95</td>
<td>0.96</td>
</tr>
<tr>
<td>2:T:5:DT:H2</td>
<td>2:T:6:DC:H5'</td>
<td>1.44</td>
<td>0.96</td>
</tr>
<tr>
<td>4:B:521:ILE:CD2</td>
<td>4:B:635:ARG:HG2</td>
<td>1.95</td>
<td>0.96</td>
</tr>
<tr>
<td>2:T:2:DC:H2'</td>
<td>2:T:3:DG:H8</td>
<td>1.25</td>
<td>0.96</td>
</tr>
<tr>
<td>4:B:899:ILE:HD11</td>
<td>4:B:911:ILE:HG12</td>
<td>1.47</td>
<td>0.96</td>
</tr>
<tr>
<td>3:A:452:LYS:HB2</td>
<td>4:B:1141:HIS:HE1</td>
<td>1.28</td>
<td>0.96</td>
</tr>
<tr>
<td>8:H:106:GLU:C</td>
<td>8:H:108:SER:H</td>
<td>1.57</td>
<td>0.96</td>
</tr>
<tr>
<td>3:A:148:CYS:O</td>
<td>3:A:149:GLU:O</td>
<td>1.84</td>
<td>0.95</td>
</tr>
<tr>
<td>3:A:7:SER:CB</td>
<td>4:B:1193:GLN:NE2</td>
<td>2.29</td>
<td>0.95</td>
</tr>
<tr>
<td>4:B:912:ILE:HD11</td>
<td>4:B:966:VAL:HG23</td>
<td>1.45</td>
<td>0.95</td>
</tr>
<tr>
<td>3:A:1392:SER:O</td>
<td>3:A:1393:ASN:ND2</td>
<td>1.97</td>
<td>0.95</td>
</tr>
<tr>
<td>4:B:635:ARG:CD</td>
<td>4:B:636:PRO:HD3</td>
<td>1.96</td>
<td>0.95</td>
</tr>
<tr>
<td>4:B:477:ALA:HB3</td>
<td>4:B:479:VAL:CG2</td>
<td>1.97</td>
<td>0.94</td>
</tr>
<tr>
<td>11:K:58:PHE:HE2</td>
<td>11:K:74:ARG:HE</td>
<td>0.98</td>
<td>0.94</td>
</tr>
<tr>
<td>11:K:58:PHE:HE2</td>
<td>11:K:74:ARG:HE</td>
<td>0.98</td>
<td>0.94</td>
</tr>
<tr>
<td>4:B:167:ILE:HG23</td>
<td>4:B:424:LEU:CD1</td>
<td>1.97</td>
<td>0.94</td>
</tr>
<tr>
<td>4:B:345:LYS:O</td>
<td>4:B:347:LYS:N</td>
<td>2.01</td>
<td>0.94</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>3:A:547:LEU:HD22</td>
<td>11:K:58:PHE:HD1</td>
<td>1.32</td>
<td>0.94</td>
</tr>
<tr>
<td>3:A:265:LYS:HE3</td>
<td>3:A:323:LYS:HG3</td>
<td>1.48</td>
<td>0.93</td>
</tr>
<tr>
<td>2:T:1:DA:H2'</td>
<td>2:T:1:DA:N3</td>
<td>1.81</td>
<td>0.93</td>
</tr>
<tr>
<td>4:B:780:VAL:HG12</td>
<td>10:J:56:LEU:HD11</td>
<td>1.48</td>
<td>0.93</td>
</tr>
<tr>
<td>4:B:796:LEU:HB3</td>
<td>4:B:799:PRO:HD3</td>
<td>1.46</td>
<td>0.93</td>
</tr>
<tr>
<td>5:C:57:VAL:CG1</td>
<td>10:J:60:PHE:HB2</td>
<td>1.98</td>
<td>0.93</td>
</tr>
<tr>
<td>4:B:550:ASP:OD1</td>
<td>4:B:551:PRO:HD2</td>
<td>1.67</td>
<td>0.93</td>
</tr>
<tr>
<td>5:C:36:VAL:HG23</td>
<td>11:K:41:THR:HG21</td>
<td>1.50</td>
<td>0.93</td>
</tr>
<tr>
<td>4:B:477:ALA:CB</td>
<td>4:B:479:VAL:HG22</td>
<td>1.99</td>
<td>0.93</td>
</tr>
<tr>
<td>11:K:32:VAL:HG23</td>
<td>11:K:74:ARG:HG3</td>
<td>1.49</td>
<td>0.93</td>
</tr>
<tr>
<td>9:I:10:CYS:SG</td>
<td>9:I:31:THR:HG22</td>
<td>2.08</td>
<td>0.93</td>
</tr>
<tr>
<td>3:A:530:GLY:C</td>
<td>3:A:532:ARG:H</td>
<td>1.58</td>
<td>0.93</td>
</tr>
<tr>
<td>3:A:58:LEU:O</td>
<td>3:A:59:GLY:O</td>
<td>1.86</td>
<td>0.93</td>
</tr>
<tr>
<td>4:B:1051:THR:HG22</td>
<td>4:B:1053:GLU:N</td>
<td>1.84</td>
<td>0.93</td>
</tr>
<tr>
<td>4:B:1106:ARG:HH21</td>
<td>4:B:1109:GLY:H</td>
<td>1.14</td>
<td>0.93</td>
</tr>
<tr>
<td>4:B:1081:LEU:O</td>
<td>5:C:189:THR:HG23</td>
<td>1.69</td>
<td>0.93</td>
</tr>
<tr>
<td>10:J:44:TYR:HA</td>
<td>10:J:47:ARG:HB2</td>
<td>1.48</td>
<td>0.93</td>
</tr>
<tr>
<td>5:C:134:ILE:CD1</td>
<td>5:C:141:GLY:HA3</td>
<td>1.99</td>
<td>0.92</td>
</tr>
<tr>
<td>6:E:52:ARG:CB</td>
<td>6:E:53:PRO:HD2</td>
<td>1.95</td>
<td>0.92</td>
</tr>
<tr>
<td>4:B:708:GLU:HG3</td>
<td>4:B:709:ASP:H</td>
<td>1.34</td>
<td>0.92</td>
</tr>
<tr>
<td>5:C:115:SER:HB3</td>
<td>5:C:141:GLY:O</td>
<td>1.69</td>
<td>0.92</td>
</tr>
<tr>
<td>4:B:102:VAL:HG21</td>
<td>4:B:112:LEU:HD22</td>
<td>1.48</td>
<td>0.92</td>
</tr>
<tr>
<td>3:A:1362:TYR:HD1</td>
<td>3:A:1363:VAL:H</td>
<td>1.05</td>
<td>0.92</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>4:B:234:ILE:H</td>
<td>4:B:234:ILE:HD13</td>
<td>1.33</td>
<td>0.92</td>
</tr>
<tr>
<td>5:C:45:ALA:HA</td>
<td>5:C:72:LEU:HD12</td>
<td>1.51</td>
<td>0.92</td>
</tr>
<tr>
<td>4:B:977:GLY:HA3</td>
<td>4:B:1099:VAL:CG2</td>
<td>1.99</td>
<td>0.92</td>
</tr>
<tr>
<td>4:B:701:ILE:CB</td>
<td>4:B:740:HIS:HE1</td>
<td>1.82</td>
<td>0.91</td>
</tr>
<tr>
<td>4:B:955:THR:CG2</td>
<td>4:B:956:THR:H</td>
<td>1.81</td>
<td>0.91</td>
</tr>
<tr>
<td>4:B:112:LEU:HD12</td>
<td>4:B:113:TYR:H</td>
<td>1.33</td>
<td>0.91</td>
</tr>
<tr>
<td>4:B:727:LYS:HD3</td>
<td>4:B:1049:ASP:OD1</td>
<td>1.69</td>
<td>0.91</td>
</tr>
<tr>
<td>4:B:102:VAL:CG2</td>
<td>4:B:112:LEU:HD22</td>
<td>2.00</td>
<td>0.91</td>
</tr>
<tr>
<td>4:B:549:THR:CG2</td>
<td>4:B:550:ASP:H</td>
<td>1.84</td>
<td>0.91</td>
</tr>
<tr>
<td>4:B:912:ILE:HD11</td>
<td>4:B:966:VAL:CG2</td>
<td>2.00</td>
<td>0.91</td>
</tr>
<tr>
<td>3:A:133:LYS:O</td>
<td>3:A:137:ALA:HB2</td>
<td>1.71</td>
<td>0.91</td>
</tr>
<tr>
<td>3:A:399:HIS:HB3</td>
<td>3:A:400:PRO:HD3</td>
<td>1.50</td>
<td>0.91</td>
</tr>
<tr>
<td>4:B:25:ILE:HD12</td>
<td>4:B:651:LEU:HD12</td>
<td>1.50</td>
<td>0.91</td>
</tr>
<tr>
<td>8:H:113:ALA:HA</td>
<td>8:H:125:LEU:O</td>
<td>1.71</td>
<td>0.91</td>
</tr>
<tr>
<td>11:K:49:GLU:HG3</td>
<td>11:K:94:ILE:CD1</td>
<td>2.00</td>
<td>0.91</td>
</tr>
<tr>
<td>3:A:185:TRP:O</td>
<td>3:A:186:LYS:HB2</td>
<td>1.69</td>
<td>0.90</td>
</tr>
<tr>
<td>8:H:97:MET:HB2</td>
<td>8:H:118:PHE:CD2</td>
<td>2.06</td>
<td>0.90</td>
</tr>
<tr>
<td>11:K:57:LEU:HD12</td>
<td>11:K:76:GLN:CG</td>
<td>2.01</td>
<td>0.90</td>
</tr>
<tr>
<td>3:A:261:ASP:CB</td>
<td>3:A:323:LYS:HD2</td>
<td>2.01</td>
<td>0.90</td>
</tr>
<tr>
<td>3:A:666:ILE:HD11</td>
<td>4:B:1030:LEU:HD13</td>
<td>1.52</td>
<td>0.90</td>
</tr>
<tr>
<td>4:B:984:HIS:HD2</td>
<td>4:B:1024:ALA:HB3</td>
<td>1.36</td>
<td>0.90</td>
</tr>
<tr>
<td>11:K:57:LEU:HD12</td>
<td>11:K:76:GLN:HG3</td>
<td>1.53</td>
<td>0.90</td>
</tr>
<tr>
<td>4:B:827:ILE:HG12</td>
<td>4:B:1012:ILE:HD11</td>
<td>1.54</td>
<td>0.90</td>
</tr>
<tr>
<td>5:C:51:VAL:HG22</td>
<td>5:C:155:LEU:CD2</td>
<td>2.02</td>
<td>0.90</td>
</tr>
<tr>
<td>4:B:701:ILE:HB</td>
<td>4:B:740:HIS:CE1</td>
<td>2.07</td>
<td>0.90</td>
</tr>
<tr>
<td>7:F:101:ILE:HD11</td>
<td>7:F:121:ALA:HB2</td>
<td>1.54</td>
<td>0.90</td>
</tr>
<tr>
<td>12:L:55:ILE:O</td>
<td>12:L:56:LEU:HB2</td>
<td>1.72</td>
<td>0.89</td>
</tr>
<tr>
<td>3:A:33:ALA:HB2</td>
<td>3:A:82:GLY:HA2</td>
<td>1.53</td>
<td>0.89</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>4:B:293:PRO:HG2</td>
<td>4:B:296:GLU:HB2</td>
<td>1.54</td>
<td>0.89</td>
</tr>
<tr>
<td>6:E:112:TYR:CE1</td>
<td>6:E:136:ASN:HB2</td>
<td>2.07</td>
<td>0.89</td>
</tr>
<tr>
<td>3:A:528:LEU:C</td>
<td>3:A:530:GLY:H</td>
<td>1.70</td>
<td>0.89</td>
</tr>
<tr>
<td>4:B:332:ASP:O</td>
<td>4:B:334:ILE:N</td>
<td>2.05</td>
<td>0.89</td>
</tr>
<tr>
<td>4:B:479:VAL:O</td>
<td>4:B:480:SER:HB3</td>
<td>1.69</td>
<td>0.89</td>
</tr>
<tr>
<td>4:B:25:ILE:HD11</td>
<td>4:B:653:VAL:HB</td>
<td>1.52</td>
<td>0.89</td>
</tr>
<tr>
<td>6:E:111:VAL:O</td>
<td>6:E:111:VAL:HG12</td>
<td>1.72</td>
<td>0.89</td>
</tr>
<tr>
<td>3:A:90:VAL:HG11</td>
<td>3:A:297:GLN:CA</td>
<td>2.01</td>
<td>0.89</td>
</tr>
<tr>
<td>4:B:1106:ARG:HD2</td>
<td>4:B:1126:GLY:O</td>
<td>1.72</td>
<td>0.89</td>
</tr>
<tr>
<td>4:B:114:PRO:HD3</td>
<td>4:B:124:TYR:CE1</td>
<td>2.07</td>
<td>0.89</td>
</tr>
<tr>
<td>7:F:98:ALA:HA</td>
<td>7:F:101:ILE:HD12</td>
<td>1.54</td>
<td>0.89</td>
</tr>
<tr>
<td>4:B:788:ARG:CB</td>
<td>4:B:788:ARG:HH11</td>
<td>1.86</td>
<td>0.89</td>
</tr>
<tr>
<td>4:B:322:PHE:CZ</td>
<td>9:I:30:ARG:HD2</td>
<td>2.07</td>
<td>0.89</td>
</tr>
<tr>
<td>4:B:471:LYS:O</td>
<td>4:B:473:MET:N</td>
<td>2.06</td>
<td>0.89</td>
</tr>
<tr>
<td>6:E:54:GLN:O</td>
<td>6:E:57:MET:HB3</td>
<td>1.71</td>
<td>0.88</td>
</tr>
<tr>
<td>10:J:9:SER:OG</td>
<td>10:J:45:CYS:HB2</td>
<td>1.73</td>
<td>0.88</td>
</tr>
<tr>
<td>10:J:5:VAL:HG12</td>
<td>10:J:6:ARG:HG3</td>
<td>1.54</td>
<td>0.88</td>
</tr>
<tr>
<td>6:E:124:VAL:HG22</td>
<td>6:E:132:ILE:CG2</td>
<td>2.03</td>
<td>0.88</td>
</tr>
<tr>
<td>4:B:129:PHE:CE2</td>
<td>4:B:166:PHE:HB2</td>
<td>2.09</td>
<td>0.88</td>
</tr>
<tr>
<td>4:B:278:GLN:HG2</td>
<td>4:B:279:ASP:H</td>
<td>1.37</td>
<td>0.88</td>
</tr>
<tr>
<td>2:T:6:DC:H2</td>
<td>2:T:7:DC:C5</td>
<td>2.03</td>
<td>0.88</td>
</tr>
<tr>
<td>4:B:798:TYR:HD2</td>
<td>10:J:4:PRO:HG3</td>
<td>1.39</td>
<td>0.88</td>
</tr>
<tr>
<td>4:B:1002:THR:CG2</td>
<td>4:B:1006:ILE:HB</td>
<td>2.04</td>
<td>0.88</td>
</tr>
<tr>
<td>5:C:44:LEU:CB</td>
<td>5:C:77:ILE:HD11</td>
<td>1.99</td>
<td>0.88</td>
</tr>
<tr>
<td>Atom-1</td>
<td>Atom-2</td>
<td>Interatomic distance (Å)</td>
<td>Clash overlap (Å)</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
<td>--------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>5:C:71:PRO:HB2</td>
<td>5:C:133:ILE:HD12</td>
<td>1.53</td>
<td>0.88</td>
</tr>
<tr>
<td>3:A:261:ASP:HB3</td>
<td>3:A:323:LYS:HD2</td>
<td>1.50</td>
<td>0.88</td>
</tr>
<tr>
<td>4:B:316:PRO:HA</td>
<td>4:B:319:GLU:HG3</td>
<td>1.54</td>
<td>0.88</td>
</tr>
<tr>
<td>4:B:329:THR:CA</td>
<td>4:B:332:ASP:HB2</td>
<td>2.03</td>
<td>0.88</td>
</tr>
<tr>
<td>5:C:46:ILE:HG21</td>
<td>5:C:157:CYS:HB3</td>
<td>1.56</td>
<td>0.88</td>
</tr>
<tr>
<td>3:A:1373:ASP:O</td>
<td>3:A:1377:THR:HG23</td>
<td>1.73</td>
<td>0.87</td>
</tr>
<tr>
<td>6:E:37:LEU:O</td>
<td>6:E:38:PRO:O</td>
<td>1.92</td>
<td>0.87</td>
</tr>
<tr>
<td>9:I:17:ARG:CG</td>
<td>9:I:18:GLU:H</td>
<td>1.86</td>
<td>0.87</td>
</tr>
<tr>
<td>5:C:258:ILE:CD1</td>
<td>11:K:42:LEU:HD21</td>
<td>2.04</td>
<td>0.87</td>
</tr>
<tr>
<td>4:B:469:GLN:O</td>
<td>4:B:471:LYS:N</td>
<td>2.05</td>
<td>0.87</td>
</tr>
<tr>
<td>4:B:788:ARG:HB3</td>
<td>4:B:788:ARG:NH1</td>
<td>1.89</td>
<td>0.87</td>
</tr>
<tr>
<td>3:A:265:LYS:NZ</td>
<td>3:A:322:VAL:CG2</td>
<td>2.36</td>
<td>0.87</td>
</tr>
<tr>
<td>3:A:455:MET:O</td>
<td>3:A:456:MET:HG2</td>
<td>1.74</td>
<td>0.87</td>
</tr>
<tr>
<td>3:A:793:SER:HB2</td>
<td>3:A:794:PRO:HD2</td>
<td>1.57</td>
<td>0.87</td>
</tr>
<tr>
<td>4:B:130:VAL:HG12</td>
<td>4:B:132:VAL:HG23</td>
<td>1.56</td>
<td>0.87</td>
</tr>
<tr>
<td>4:B:200:GLY:HA2</td>
<td>4:B:202:TYR:CE2</td>
<td>2.09</td>
<td>0.87</td>
</tr>
<tr>
<td>5:C:18:VAL:HG23</td>
<td>5:C:240:VAL:CG1</td>
<td>2.04</td>
<td>0.87</td>
</tr>
<tr>
<td>3:A:504:LEU:HD11</td>
<td>7:F:91:ALA:CB</td>
<td>2.05</td>
<td>0.87</td>
</tr>
<tr>
<td>4:B:1177:His:O</td>
<td>4:B:1179:GLN:N</td>
<td>2.06</td>
<td>0.87</td>
</tr>
<tr>
<td>5:C:70:ILE:CD1</td>
<td>5:C:144:ILE:HD11</td>
<td>2.05</td>
<td>0.87</td>
</tr>
<tr>
<td>4:B:1107:ALA:O</td>
<td>4:B:1108:ARG:HB3</td>
<td>1.75</td>
<td>0.87</td>
</tr>
<tr>
<td>5:C:46:ILE:HD11</td>
<td>5:C:72:LEU:HD11</td>
<td>1.57</td>
<td>0.86</td>
</tr>
<tr>
<td>4:B:230:ALA:HB3</td>
<td>4:B:231:PRO:HD3</td>
<td>1.56</td>
<td>0.86</td>
</tr>
<tr>
<td>5:C:114:TYR:CD2</td>
<td>5:C:140:ASN:HB2</td>
<td>2.10</td>
<td>0.86</td>
</tr>
<tr>
<td>4:B:1072:MET:HE3</td>
<td>4:B:1085:ILE:HG21</td>
<td>1.57</td>
<td>0.86</td>
</tr>
<tr>
<td>4:B:299:GLU:OE1</td>
<td>4:B:572:HIS:HB3</td>
<td>1.75</td>
<td>0.86</td>
</tr>
<tr>
<td>5:C:133:ILE:HD11</td>
<td>5:C:237:SER:HA</td>
<td>1.57</td>
<td>0.86</td>
</tr>
<tr>
<td>3:A:262:LEU:O</td>
<td>3:A:266:LEU:HB2</td>
<td>1.75</td>
<td>0.86</td>
</tr>
<tr>
<td>4:B:1156:ASP:HB3</td>
<td>4:B:1198:TYR:H</td>
<td>1.39</td>
<td>0.86</td>
</tr>
<tr>
<td>4:B:957:ASN:HB3</td>
<td>4:B:961:LEU:HD12</td>
<td>1.57</td>
<td>0.86</td>
</tr>
<tr>
<td>5:C:70:ILE:HD12</td>
<td>5:C:144:ILE:HD11</td>
<td>1.56</td>
<td>0.86</td>
</tr>
<tr>
<td>4:B:955:THR:OG1</td>
<td>12:L:55:ILE:HA</td>
<td>1.74</td>
<td>0.86</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>4:B:955:THR:HG23</td>
<td>12:L:54:ARG:O</td>
<td>1.74</td>
<td>0.86</td>
</tr>
<tr>
<td>10:J:64:ASN:CB</td>
<td>10:J:65:PRO:HD3</td>
<td>2.00</td>
<td>0.86</td>
</tr>
<tr>
<td>3:A:583:PRO:O</td>
<td>3:A:610:GLY:HA3</td>
<td>1.75</td>
<td>0.86</td>
</tr>
<tr>
<td>4:B:120:ARG:CD</td>
<td>4:B:955:THR:HG21</td>
<td>2.05</td>
<td>0.86</td>
</tr>
<tr>
<td>4:B:322:PHE:O</td>
<td>4:B:322:PHE:CD1</td>
<td>2.29</td>
<td>0.85</td>
</tr>
<tr>
<td>4:B:363:His:O</td>
<td>4:B:364:ILE:HB</td>
<td>1.75</td>
<td>0.85</td>
</tr>
<tr>
<td>4:B:996:ARG:NH2</td>
<td>5:C:38:ILE:HD12</td>
<td>1.91</td>
<td>0.85</td>
</tr>
<tr>
<td>8:H:139:ASN:O</td>
<td>8:H:140:ALA:HB2</td>
<td>1.75</td>
<td>0.85</td>
</tr>
<tr>
<td>4:B:860:MET:HG2</td>
<td>4:B:861:ASP:N</td>
<td>1.91</td>
<td>0.85</td>
</tr>
<tr>
<td>4:B:91:SER:OG</td>
<td>4:B:133:LYS:HB2</td>
<td>1.75</td>
<td>0.85</td>
</tr>
<tr>
<td>10:J:7:CYR:HA</td>
<td>10:J:49:MET:HE3</td>
<td>1.57</td>
<td>0.85</td>
</tr>
<tr>
<td>3:A:90:VAL:CG1</td>
<td>3:A:297:GLN:HB2</td>
<td>2.06</td>
<td>0.85</td>
</tr>
<tr>
<td>4:B:474:SER:CA</td>
<td>4:B:476:ARG:HG3</td>
<td>2.04</td>
<td>0.85</td>
</tr>
<tr>
<td>5:C:10:ILE:HD13</td>
<td>5:C:20:PHE:HB3</td>
<td>1.58</td>
<td>0.85</td>
</tr>
<tr>
<td>5:C:229:TYR:CD1</td>
<td>5:C:229:TYR:N</td>
<td>2.36</td>
<td>0.85</td>
</tr>
<tr>
<td>4:B:577:ALA:HB1</td>
<td>4:B:589:VAL:CG1</td>
<td>2.06</td>
<td>0.85</td>
</tr>
<tr>
<td>10:J:10:CYS:SG</td>
<td>10:J:43:ARG:CD</td>
<td>2.64</td>
<td>0.85</td>
</tr>
<tr>
<td>4:B:466:TRP:N</td>
<td>4:B:475:SER:OG</td>
<td>2.08</td>
<td>0.85</td>
</tr>
<tr>
<td>7:F:147:SER:OG</td>
<td>7:F:150:GLU:HG3</td>
<td>1.76</td>
<td>0.85</td>
</tr>
<tr>
<td>5:C:44:LEU:HD12</td>
<td>5:C:160:LYS:O</td>
<td>1.76</td>
<td>0.85</td>
</tr>
<tr>
<td>4:B:129:PHE:CE2</td>
<td>4:B:166:PHE:CB</td>
<td>2.60</td>
<td>0.85</td>
</tr>
<tr>
<td>4:B:634:TYR:CE1</td>
<td>4:B:692:TYR:CD1</td>
<td>2.64</td>
<td>0.85</td>
</tr>
<tr>
<td>4:B:798:TYR:CD2</td>
<td>10:J:4:PRO:HG3</td>
<td>2.11</td>
<td>0.85</td>
</tr>
<tr>
<td>4:B:1099:VAL:CG1</td>
<td>4:B:1103:ILE:HD11</td>
<td>2.06</td>
<td>0.85</td>
</tr>
<tr>
<td>3:A:320:ARG:NH2</td>
<td>4:B:469:GLN:O</td>
<td>2.08</td>
<td>0.85</td>
</tr>
<tr>
<td>5:C:3:GLU:CG</td>
<td>5:C:4:GLU:H</td>
<td>1.88</td>
<td>0.85</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>3:A:91:PHE:CD2</td>
<td>3:A:297:GLN:OE1</td>
<td>2.29</td>
<td>0.84</td>
</tr>
<tr>
<td>4:B:230:ALA:N</td>
<td>4:B:231:PRO:HD2</td>
<td>1.91</td>
<td>0.84</td>
</tr>
<tr>
<td>11:K:12:LEU:HD12</td>
<td>11:K:12:LEU:H</td>
<td>1.38</td>
<td>0.84</td>
</tr>
<tr>
<td>3:A:12:ARG:HD3</td>
<td>4:B:1192:TYR:HE2</td>
<td>1.40</td>
<td>0.84</td>
</tr>
<tr>
<td>4:B:475:SER:O</td>
<td>4:B:477:ALA:N</td>
<td>2.10</td>
<td>0.84</td>
</tr>
<tr>
<td>4:B:65:GLU:CG</td>
<td>4:B:66:ASP:N</td>
<td>2.33</td>
<td>0.84</td>
</tr>
<tr>
<td>4:B:736:THR:O</td>
<td>4:B:736:THR:HG22</td>
<td>1.77</td>
<td>0.84</td>
</tr>
<tr>
<td>4:B:236:HIS:HD2</td>
<td>4:B:389:ALA:HB2</td>
<td>1.42</td>
<td>0.84</td>
</tr>
<tr>
<td>4:B:801:LYS:HG2</td>
<td>10:J:52:THR:HG23</td>
<td>1.58</td>
<td>0.84</td>
</tr>
<tr>
<td>3:A:1362:TYR:HD1</td>
<td>3:A:1363:VAL:N</td>
<td>1.72</td>
<td>0.84</td>
</tr>
<tr>
<td>4:B:256:VAL:HG11</td>
<td>4:B:382:ILE:HD11</td>
<td>1.57</td>
<td>0.84</td>
</tr>
<tr>
<td>3:A:925:LEU:C</td>
<td>3:A:927:VAL:H</td>
<td>1.78</td>
<td>0.84</td>
</tr>
<tr>
<td>4:B:431:TYR:CE1</td>
<td>4:B:447:ALA:HB2</td>
<td>2.13</td>
<td>0.84</td>
</tr>
<tr>
<td>11:K:92:ASN:HA</td>
<td>11:K:95:ILE:HD12</td>
<td>1.56</td>
<td>0.84</td>
</tr>
<tr>
<td>3:A:1422:ARG:HH21</td>
<td>4:B:1220:ARG:CD</td>
<td>1.90</td>
<td>0.84</td>
</tr>
<tr>
<td>4:B:62:ILE:HD12</td>
<td>4:B:418:LYS:HE2</td>
<td>1.59</td>
<td>0.84</td>
</tr>
<tr>
<td>3:A:322:VAL:HB</td>
<td>3:A:323:LYS:HD3</td>
<td>1.58</td>
<td>0.84</td>
</tr>
<tr>
<td>3:A:922:ASP:OD1</td>
<td>3:A:923:LEU:N</td>
<td>2.09</td>
<td>0.84</td>
</tr>
<tr>
<td>8:H:106:GLU:C</td>
<td>8:H:108:SER:N</td>
<td>2.29</td>
<td>0.84</td>
</tr>
<tr>
<td>9:I:7:CYS:N</td>
<td>9:I:14:LEU:HD21</td>
<td>1.93</td>
<td>0.84</td>
</tr>
<tr>
<td>3:A:981:LEU:CD2</td>
<td>3:A:1039:LYS:HA</td>
<td>2.08</td>
<td>0.84</td>
</tr>
<tr>
<td>8:H:81:PRO:CB</td>
<td>8:H:82:PRO:HD2</td>
<td>2.04</td>
<td>0.83</td>
</tr>
<tr>
<td>9:I:15:TYR:HB3</td>
<td>9:I:16:PRO:CD</td>
<td>2.08</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:577:ALA:HB1</td>
<td>4:B:589:VAL:HG13</td>
<td>1.59</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:708:GLU:O</td>
<td>4:B:710:LEU:N</td>
<td>2.10</td>
<td>0.83</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>4:B:474:SER:O</td>
<td>4:B:476:ARG:HB2</td>
<td>1.79</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:707:PRO:HB3</td>
<td>4:B:741:CYS:SG</td>
<td>2.18</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:744:His:HD2</td>
<td>4:B:746:SER:OG</td>
<td>1.59</td>
<td>0.83</td>
</tr>
<tr>
<td>3:A:265:LYS:HE3</td>
<td>3:A:323:LYS:CG</td>
<td>2.08</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:1104:His:HB2</td>
<td>4:B:1122:ARG:HB2</td>
<td>1.60</td>
<td>0.83</td>
</tr>
<tr>
<td>3:A:343:LYS:NZ</td>
<td>4:B:1197:PRO:HE3</td>
<td>1.93</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:474:SER:HA</td>
<td>4:B:476:ARG:CG</td>
<td>2.07</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:635:ARG:CB</td>
<td>4:B:636:PRO:CD</td>
<td>2.40</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:744:His:CD2</td>
<td>4:B:746:SER:OG</td>
<td>2.31</td>
<td>0.83</td>
</tr>
<tr>
<td>8:H:84:ALA:CA</td>
<td>8:H:87:ARG:HB2</td>
<td>2.08</td>
<td>0.83</td>
</tr>
<tr>
<td>5:C:242:GLN:HE21</td>
<td>5:C:246:ARG:HE</td>
<td>1.25</td>
<td>0.83</td>
</tr>
<tr>
<td>8:H:84:ALA:HA</td>
<td>8:H:87:ARG:HB2</td>
<td>1.61</td>
<td>0.83</td>
</tr>
<tr>
<td>3:A:451:His:O</td>
<td>4:B:1137:CYS:SG</td>
<td>2.36</td>
<td>0.83</td>
</tr>
<tr>
<td>3:A:888:GLY:O</td>
<td>3:A:940:ARG:NH2</td>
<td>2.10</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:108:VAL:HG12</td>
<td>4:B:109:THR:N</td>
<td>1.94</td>
<td>0.83</td>
</tr>
<tr>
<td>6:E:64:PRO:HG3</td>
<td>6:E:76:GLY:HA2</td>
<td>1.59</td>
<td>0.83</td>
</tr>
<tr>
<td>7:F:111:LEU:O</td>
<td>7:F:113:GLY:N</td>
<td>2.10</td>
<td>0.83</td>
</tr>
<tr>
<td>8:H:84:ALA:CB</td>
<td>8:H:87:ARG:HB2</td>
<td>2.09</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:1076:His:ND1</td>
<td>11:K:40:His:HD2</td>
<td>1.76</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:555:ILE:HD11</td>
<td>4:B:582:VAL:HG11</td>
<td>1.61</td>
<td>0.83</td>
</tr>
<tr>
<td>4:B:1162:ILE:HD13</td>
<td>4:B:1168:LEU:C</td>
<td>1.97</td>
<td>0.83</td>
</tr>
<tr>
<td>8:H:84:ALA:C</td>
<td>8:H:86:ASP:H</td>
<td>1.79</td>
<td>0.83</td>
</tr>
<tr>
<td>3:A:1342:GLU:HG2</td>
<td>6:E:212:ARG:NH1</td>
<td>1.93</td>
<td>0.82</td>
</tr>
<tr>
<td>3:A:765:VAL:HG22</td>
<td>3:A:802:ASN:O</td>
<td>1.79</td>
<td>0.82</td>
</tr>
<tr>
<td>4:B:682:SER:O</td>
<td>4:B:686:ASN:ND2</td>
<td>2.12</td>
<td>0.82</td>
</tr>
<tr>
<td>4:B:640:VAL:HG23</td>
<td>4:B:740:HIS:CA</td>
<td>2.08</td>
<td>0.82</td>
</tr>
<tr>
<td>5:C:46:ILE:CG2</td>
<td>5:C:157:CYS:HB3</td>
<td>2.09</td>
<td>0.82</td>
</tr>
<tr>
<td>3:A:1441:PHE:CZ</td>
<td>7:F:89:GLU:HA</td>
<td>2.15</td>
<td>0.82</td>
</tr>
<tr>
<td>4:B:1099:VAL:HG12</td>
<td>4:B:1103:ILE:CD1</td>
<td>2.09</td>
<td>0.82</td>
</tr>
<tr>
<td>4:B:1104:HIS:HB2</td>
<td>4:B:1122:ARG:HD2</td>
<td>1.60</td>
<td>0.82</td>
</tr>
<tr>
<td>3:A:996:ASN:O</td>
<td>3:A:998:LEU:HB2</td>
<td>1.79</td>
<td>0.82</td>
</tr>
<tr>
<td>4:B:797:TYR:HB3</td>
<td>4:B:798:TYR:CD1</td>
<td>2.14</td>
<td>0.82</td>
</tr>
<tr>
<td>5:C:22:LEU:HD21</td>
<td>5:C:25:VAL:HG21</td>
<td>1.59</td>
<td>0.82</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>4:B:168:GLY:CA</td>
<td>4:B:454:THR:OG1</td>
<td>2.28</td>
<td>0.82</td>
</tr>
<tr>
<td>9:I:7:CYS:HB2</td>
<td>9:I:14:LEU:CD2</td>
<td>2.09</td>
<td>0.82</td>
</tr>
<tr>
<td>6:E:161:LYS:O</td>
<td>6:E:163:GLU:N</td>
<td>2.12</td>
<td>0.82</td>
</tr>
<tr>
<td>7:F:155:LEU:H</td>
<td>7:F:155:LEU:CD2</td>
<td>1.84</td>
<td>0.82</td>
</tr>
<tr>
<td>8:H:32:THR:HG22</td>
<td>8:H:33:GLN:CG</td>
<td>2.09</td>
<td>0.82</td>
</tr>
<tr>
<td>4:B:65:GLU:HG2</td>
<td>4:B:66:ASP:H</td>
<td>0.73</td>
<td>0.82</td>
</tr>
<tr>
<td>8:H:12:VAL:HG13</td>
<td>8:H:28:ALA:HB2</td>
<td>1.62</td>
<td>0.82</td>
</tr>
<tr>
<td>11:K:46:ILE:HG23</td>
<td>11:K:50:LEU:HD12</td>
<td>1.60</td>
<td>0.82</td>
</tr>
<tr>
<td>6:E:65:THR:C</td>
<td>6:E:67:GLU:H</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>12:L:43:THR:O</td>
<td>12:L:43:THR:CG2</td>
<td>2.27</td>
<td>0.81</td>
</tr>
<tr>
<td>9:25:LEU:HB3</td>
<td>9:38:ALA:HB2</td>
<td>1.62</td>
<td>0.81</td>
</tr>
<tr>
<td>3:A:1161:THR:CG2</td>
<td>3:A:1163:ILE:H</td>
<td>1.86</td>
<td>0.81</td>
</tr>
<tr>
<td>3:A:567:LYS:HB2</td>
<td>3:A:568:PRO:CD</td>
<td>2.03</td>
<td>0.81</td>
</tr>
<tr>
<td>4:B:1077:THR:HG22</td>
<td>4:B:1079:LYS:H</td>
<td>1.42</td>
<td>0.81</td>
</tr>
<tr>
<td>4:B:472:ALA:O</td>
<td>4:B:474:SER:N</td>
<td>2.13</td>
<td>0.81</td>
</tr>
<tr>
<td>4:B:563:MET:HA</td>
<td>4:B:589:VAL:O</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>4:B:756:ILE:HG21</td>
<td>4:B:759:PRO:HB3</td>
<td>1.60</td>
<td>0.81</td>
</tr>
<tr>
<td>5:C:39:ALA:HA</td>
<td>5:C:164:ALA:HB3</td>
<td>1.62</td>
<td>0.81</td>
</tr>
<tr>
<td>6:E:113:GLN:HB3</td>
<td>6:E:137:GLU:OE1</td>
<td>1.80</td>
<td>0.81</td>
</tr>
<tr>
<td>3:A:68:GLN:C</td>
<td>3:A:70:CYS:H</td>
<td>1.79</td>
<td>0.81</td>
</tr>
<tr>
<td>11:K:57:LEU:HB2</td>
<td>11:K:76:GLN:HG2</td>
<td>1.62</td>
<td>0.81</td>
</tr>
<tr>
<td>11:K:90:ALA:O</td>
<td>11:K:94:ILE:HD13</td>
<td>1.80</td>
<td>0.81</td>
</tr>
<tr>
<td>3:A:265:LYS:CE</td>
<td>3:A:323:LYS:HE2</td>
<td>2.10</td>
<td>0.81</td>
</tr>
<tr>
<td>4:B:882:THR:CG2</td>
<td>4:B:935:ARG:HA</td>
<td>2.08</td>
<td>0.81</td>
</tr>
<tr>
<td>10:J:51:LEU:O</td>
<td>10:J:51:LEU:HD12</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>5:C:58:LEU:HD21</td>
<td>10:J:57:ILE:HD13</td>
<td>1.60</td>
<td>0.81</td>
</tr>
<tr>
<td>12:L:43:THR:O</td>
<td>12:L:43:THR:HG22</td>
<td>1.79</td>
<td>0.81</td>
</tr>
<tr>
<td>2:T:2:DC:C2</td>
<td>2:T:3:DG:H8</td>
<td>1.92</td>
<td>0.81</td>
</tr>
<tr>
<td>3:A:1042:PHE:CE2</td>
<td>3:A:1046:LEU:HD12</td>
<td>2.15</td>
<td>0.81</td>
</tr>
<tr>
<td>8:H:142:LEU:HD12</td>
<td>8:H:143:LEU:N</td>
<td>1.96</td>
<td>0.81</td>
</tr>
<tr>
<td>8:H:93:TYR:CD1</td>
<td>8:H:143:LEU:HB2</td>
<td>2.15</td>
<td>0.81</td>
</tr>
<tr>
<td>4:B:737:THR:CG2</td>
<td>9:I:66:PRO:HB2</td>
<td>2.10</td>
<td>0.81</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>4:B:986:GLN:OE1</td>
<td>4:B:986:GLN:HA</td>
<td>1.80</td>
<td>0.81</td>
</tr>
<tr>
<td>9:I:78:CYS:SG</td>
<td>9:I:103:CYS:SG</td>
<td>2.78</td>
<td>0.81</td>
</tr>
<tr>
<td>6:E:43:LYS:O</td>
<td>6:E:47:CYS:HB2</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>5:C:66:ARG:OE2</td>
<td>10:J:3:VAL:O</td>
<td>2.14</td>
<td>0.81</td>
</tr>
<tr>
<td>4:B:830:TYR:CE1</td>
<td>4:B:1000:PRO:HB3</td>
<td>2.16</td>
<td>0.81</td>
</tr>
<tr>
<td>6:E:171:LYS:HB2</td>
<td>6:E:174:GLN:HG3</td>
<td>1.63</td>
<td>0.81</td>
</tr>
<tr>
<td>7:F:86:THR:OG1</td>
<td>7:F:89:GLU:HG3</td>
<td>1.81</td>
<td>0.81</td>
</tr>
<tr>
<td>4:B:175:ARG:HH1</td>
<td>4:B:175:ARG:HG2</td>
<td>1.44</td>
<td>0.81</td>
</tr>
<tr>
<td>5:C:134:ILE:HD12</td>
<td>5:C:141:GLY:CA</td>
<td>2.11</td>
<td>0.81</td>
</tr>
<tr>
<td>3:A:1342:GLU:HG2</td>
<td>6:E:212:ARG:HG12</td>
<td>1.45</td>
<td>0.81</td>
</tr>
<tr>
<td>4:B:984:HIS:CD2</td>
<td>4:B:1024:ALA:HB3</td>
<td>2.15</td>
<td>0.80</td>
</tr>
<tr>
<td>4:B:1077:THR:CG2</td>
<td>4:B:1079:LYS:H</td>
<td>1.94</td>
<td>0.80</td>
</tr>
<tr>
<td>7:F:75:PRO:O</td>
<td>7:F:79:ARG:HD2</td>
<td>1.81</td>
<td>0.80</td>
</tr>
<tr>
<td>8:H:89:LEU:O</td>
<td>8:H:91:ASP:H</td>
<td>1.81</td>
<td>0.80</td>
</tr>
<tr>
<td>9:I:10:CYS:HB3</td>
<td>9:I:31:THR:CG2</td>
<td>2.05</td>
<td>0.80</td>
</tr>
<tr>
<td>3:A:14:VAL:H</td>
<td>3:A:1432:GLN:NE2</td>
<td>1.80</td>
<td>0.80</td>
</tr>
<tr>
<td>8:H:139:ASN:O</td>
<td>8:H:140:ALA:CB</td>
<td>2.28</td>
<td>0.80</td>
</tr>
<tr>
<td>3:A:130:ASP:O</td>
<td>3:A:131:SER:C</td>
<td>2.18</td>
<td>0.80</td>
</tr>
<tr>
<td>3:A:445:ASN:ND2</td>
<td>3:A:446:ARG:N</td>
<td>2.30</td>
<td>0.80</td>
</tr>
<tr>
<td>2:T:4:DA:H5'</td>
<td>3:A:832:ALA:HA</td>
<td>1.64</td>
<td>0.80</td>
</tr>
<tr>
<td>4:B:806:THR:N</td>
<td>4:B:809:MET:HE3</td>
<td>1.96</td>
<td>0.80</td>
</tr>
<tr>
<td>3:A:783:THR:O</td>
<td>3:A:784:LEU:HG23</td>
<td>1.82</td>
<td>0.80</td>
</tr>
<tr>
<td>4:B:737:THR:HG23</td>
<td>9:I:66:PRO:HB3</td>
<td>1.63</td>
<td>0.80</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>4:B:519:TRP:CZ2</td>
<td>4:B:705:MET:HE1</td>
<td>2.17</td>
<td>0.80</td>
</tr>
<tr>
<td>5:C:52:GLU:OE2</td>
<td>5:C:154:LYS:HG2</td>
<td>1.81</td>
<td>0.80</td>
</tr>
<tr>
<td>5:C:173:ALA:O</td>
<td>5:C:174:ALA:HB3</td>
<td>1.81</td>
<td>0.80</td>
</tr>
<tr>
<td>8:H:3:ASN:CG</td>
<td>8:H:4:THR:H</td>
<td>1.81</td>
<td>0.80</td>
</tr>
<tr>
<td>12:L:68:GLU:OE1</td>
<td>12:L:68:GLU:O</td>
<td>2.00</td>
<td>0.80</td>
</tr>
<tr>
<td>3:A:146:MET:O</td>
<td>3:A:170:THR:CG2</td>
<td>2.29</td>
<td>0.80</td>
</tr>
<tr>
<td>10:J:64:ASN:HB3</td>
<td>10:J:65:PRO:CD</td>
<td>2.11</td>
<td>0.80</td>
</tr>
<tr>
<td>3:A:261:ASP:CG</td>
<td>3:A:323:LYS:HD2</td>
<td>2.02</td>
<td>0.80</td>
</tr>
<tr>
<td>5:C:98:VAL:C</td>
<td>5:C:99:LEU:HD23</td>
<td>2.01</td>
<td>0.80</td>
</tr>
<tr>
<td>10:J:36:LEU:HD12</td>
<td>10:J:47:ARG:HG2</td>
<td>1.64</td>
<td>0.80</td>
</tr>
<tr>
<td>3:A:886:ILE:HD11</td>
<td>3:A:943:LEU:HB2</td>
<td>1.64</td>
<td>0.80</td>
</tr>
<tr>
<td>4:B:521:LEU:HD23</td>
<td>4:B:635:ARG:HG2</td>
<td>1.64</td>
<td>0.80</td>
</tr>
<tr>
<td>4:B:794:ASN:HD22</td>
<td>4:B:794:ASN:N</td>
<td>1.80</td>
<td>0.80</td>
</tr>
<tr>
<td>3:A:305:ASP:OD1</td>
<td>3:A:306:ASN:N</td>
<td>2.15</td>
<td>0.79</td>
</tr>
<tr>
<td>4:B:1175:LEU:O</td>
<td>4:B:1176:ASN:CB</td>
<td>2.27</td>
<td>0.79</td>
</tr>
<tr>
<td>4:B:640:VAL:HG23</td>
<td>4:B:740:HIS:HA</td>
<td>1.62</td>
<td>0.79</td>
</tr>
<tr>
<td>4:B:788:ARG:CB</td>
<td>4:B:788:ARG:NH1</td>
<td>2.45</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:1284:MET:HA</td>
<td>3:A:1306:LEU:HD23</td>
<td>1.64</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:313:GLN:O</td>
<td>3:A:314:ALA:HB2</td>
<td>1.80</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:322:VAL:HB</td>
<td>3:A:323:LYS:HG2</td>
<td>1.63</td>
<td>0.79</td>
</tr>
<tr>
<td>4:B:806:THR:HG22</td>
<td>4:B:808:ALA:H</td>
<td>1.48</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:504:LEU:HD11</td>
<td>7:F:91:ALA:HB2</td>
<td>1.64</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:547:LEU:HD22</td>
<td>11:K:58:PHE:CD1</td>
<td>2.16</td>
<td>0.79</td>
</tr>
<tr>
<td>4:B:1182:CYS:O</td>
<td>4:B:1183:LYS:O</td>
<td>2.01</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:785:PRO:HB2</td>
<td>4:B:701:ILE:HD11</td>
<td>1.64</td>
<td>0.79</td>
</tr>
<tr>
<td>4:B:846:ILE:CG2</td>
<td>4:B:974:PRO:HG2</td>
<td>2.12</td>
<td>0.79</td>
</tr>
<tr>
<td>8:H:41:ASP:O</td>
<td>8:H:42:ILE:HD13</td>
<td>1.82</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:522:GLY:C</td>
<td>3:A:523:ILE:HD12</td>
<td>2.01</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:569:LYS:HG2</td>
<td>3:A:571:LEU:HD11</td>
<td>1.64</td>
<td>0.79</td>
</tr>
<tr>
<td>4:B:800:GLN:HG2</td>
<td>10:J:52:THR:HG21</td>
<td>1.63</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:7:SER:HB3</td>
<td>4:B:1193:GLN:HE22</td>
<td>1.44</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:849:MET:HE1</td>
<td>3:A:1061:GLY:HA2</td>
<td>1.63</td>
<td>0.79</td>
</tr>
<tr>
<td>4:B:68:THR:O</td>
<td>4:B:69:LEU:HD23</td>
<td>1.82</td>
<td>0.79</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>4:B:999:MET:HG3</td>
<td>4:B:1000:PRO:HD2</td>
<td>1.65</td>
<td>0.79</td>
</tr>
<tr>
<td>6:E:170:LEU:HD13</td>
<td>6:E:175:LEU:CD2</td>
<td>2.12</td>
<td>0.79</td>
</tr>
<tr>
<td>9:I:17:ARG:CG</td>
<td>9:I:18:GLU:N</td>
<td>2.45</td>
<td>0.79</td>
</tr>
<tr>
<td>4:B:62:ILE:HG23</td>
<td>4:B:418:LYS:HG2</td>
<td>1.63</td>
<td>0.79</td>
</tr>
<tr>
<td>5:C:182:PRO:HB2</td>
<td>5:C:207:CYS:SG</td>
<td>2.22</td>
<td>0.79</td>
</tr>
<tr>
<td>6:E:164:LEU:HD13</td>
<td>6:E:211:TYR:CE2</td>
<td>2.18</td>
<td>0.79</td>
</tr>
<tr>
<td>8:H:47:PHE:HB3</td>
<td>8:H:95:TYR:HD1</td>
<td>1.46</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:508:LEU:HD13</td>
<td>8:H:25:ARG:NH1</td>
<td>1.97</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:343:LYS:HZ1</td>
<td>4:B:1197:PRO:HB3</td>
<td>1.48</td>
<td>0.79</td>
</tr>
<tr>
<td>4:B:124:TYR:OH</td>
<td>4:B:179:CYS:HA</td>
<td>1.83</td>
<td>0.79</td>
</tr>
<tr>
<td>9:I:10:CYS:SG</td>
<td>9:I:32:CYS:SG</td>
<td>2.80</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:120:GLU:HG2</td>
<td>3:A:120:GLU:O</td>
<td>1.81</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:68:GLN:NE2</td>
<td>3:A:80:HIS:NE2</td>
<td>2.31</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:567:LYS:CB</td>
<td>8:H:96:VAL:H</td>
<td>1.96</td>
<td>0.79</td>
</tr>
<tr>
<td>3:A:1273:LEU:O</td>
<td>3:A:1274:ARG:HB3</td>
<td>1.82</td>
<td>0.78</td>
</tr>
<tr>
<td>4:B:815:ARG:HH11</td>
<td>4:B:815:ARG:HG3</td>
<td>1.48</td>
<td>0.78</td>
</tr>
<tr>
<td>5:C:93:ASP:O</td>
<td>5:C:127:ARG:NH2</td>
<td>2.16</td>
<td>0.78</td>
</tr>
<tr>
<td>9:I:33:SER:O</td>
<td>9:I:34:TYR:O</td>
<td>2.01</td>
<td>0.78</td>
</tr>
<tr>
<td>4:B:1076:HIS:ND1</td>
<td>11:K:40:HIS:CD2</td>
<td>2.51</td>
<td>0.78</td>
</tr>
<tr>
<td>4:B:1171:VAL:HG12</td>
<td>4:B:1172:ILE:N</td>
<td>1.95</td>
<td>0.78</td>
</tr>
<tr>
<td>4:B:174:LEU:CD2</td>
<td>4:B:204:ILE:HD11</td>
<td>2.10</td>
<td>0.78</td>
</tr>
<tr>
<td>11:K:7:PHE:HA</td>
<td>11:K:10:PHE:HZ</td>
<td>2.18</td>
<td>0.78</td>
</tr>
<tr>
<td>5:C:244:VAL:O</td>
<td>5:C:248:ILE:HG13</td>
<td>1.83</td>
<td>0.78</td>
</tr>
<tr>
<td>5:C:92:CYS:SG</td>
<td>5:C:94:LYS:CB</td>
<td>2.72</td>
<td>0.78</td>
</tr>
<tr>
<td>6:E:30:ILE:HG23</td>
<td>6:E:34:GLU:OE1</td>
<td>1.83</td>
<td>0.78</td>
</tr>
<tr>
<td>3:A:12:ARG:HD3</td>
<td>4:B:1192:TYR:CE2</td>
<td>2.18</td>
<td>0.78</td>
</tr>
<tr>
<td>4:B:167:ILE:HD12</td>
<td>4:B:424:LEU:HD11</td>
<td>1.65</td>
<td>0.78</td>
</tr>
<tr>
<td>4:B:834:ASN:O</td>
<td>4:B:1013:ASN:HB2</td>
<td>1.82</td>
<td>0.78</td>
</tr>
<tr>
<td>2:T:2:DC:C2'</td>
<td>2:T:3:DG:C8</td>
<td>2.65</td>
<td>0.78</td>
</tr>
<tr>
<td>4:B:474:SER:C</td>
<td>4:B:476:ARG:N</td>
<td>2.26</td>
<td>0.78</td>
</tr>
<tr>
<td>Atom-1</td>
<td>Atom-2</td>
<td>Interatomic distance (Å)</td>
<td>Clash overlap (Å)</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------</td>
<td>--------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>11:K:40:HIS:CE1</td>
<td>11:K:63:VAL:HG11</td>
<td>2.18</td>
<td>0.78</td>
</tr>
<tr>
<td>4:B:129:PHE:CD2</td>
<td>4:B:166:PHE:HB2</td>
<td>2.19</td>
<td>0.78</td>
</tr>
<tr>
<td>7:F:111:LEU:C</td>
<td>7:F:113:GLY:H</td>
<td>1.86</td>
<td>0.78</td>
</tr>
<tr>
<td>8:H:5:LEU:HD22</td>
<td>8:H:133:ASN:O</td>
<td>1.84</td>
<td>0.78</td>
</tr>
<tr>
<td>8:H:42:ILE:HD12</td>
<td>8:H:95:TYR:CZ</td>
<td>2.19</td>
<td>0.78</td>
</tr>
<tr>
<td>9:I:19:ASP:O</td>
<td>9:I:23:ASN:HA</td>
<td>1.84</td>
<td>0.78</td>
</tr>
<tr>
<td>3:A:1437:GLY:HA3</td>
<td>7:F:88:TYR:CD2</td>
<td>2.18</td>
<td>0.78</td>
</tr>
<tr>
<td>5:C:134:ILE:HD11</td>
<td>5:C:141:GLY:HA3</td>
<td>1.62</td>
<td>0.78</td>
</tr>
<tr>
<td>4:B:1171:VAL:CG1</td>
<td>4:B:1172:ILE:H</td>
<td>1.96</td>
<td>0.78</td>
</tr>
<tr>
<td>4:B:365:THR:HG23</td>
<td>4:B:367:LEU:H</td>
<td>1.49</td>
<td>0.78</td>
</tr>
<tr>
<td>5:C:196:ASP:O</td>
<td>5:C:200:GLU:HB2</td>
<td>1.84</td>
<td>0.78</td>
</tr>
<tr>
<td>9:I:7:CYS:CA</td>
<td>9:I:14:LEU:HD21</td>
<td>2.13</td>
<td>0.78</td>
</tr>
<tr>
<td>11:K:93:SER:O</td>
<td>11:K:97:LYS:HG3</td>
<td>1.83</td>
<td>0.78</td>
</tr>
<tr>
<td>3:A:958:VAL:HG22</td>
<td>3:A:1052:GLN:HB3</td>
<td>1.64</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:273:LEU:HB2</td>
<td>4:B:276:ILE:HD12</td>
<td>1.64</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:711:GLU:N</td>
<td>4:B:712:PRO:CD</td>
<td>2.47</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:751:VAL:HG12</td>
<td>4:B:752:ALA:N</td>
<td>1.99</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:954:VAL:O</td>
<td>12:L:55:ILE:O</td>
<td>2.01</td>
<td>0.77</td>
</tr>
<tr>
<td>3:A:1189:SER:OG</td>
<td>3:A:1190:PRO:HD2</td>
<td>1.84</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:1116:ARG:HG3</td>
<td>4:B:1198:TYR:CD2</td>
<td>2.19</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:169:ARG:HB2</td>
<td>4:B:454:THR:CG2</td>
<td>2.14</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:770:GLN:HG2</td>
<td>4:B:983:ARG:O</td>
<td>1.84</td>
<td>0.77</td>
</tr>
<tr>
<td>6:E:162:ARG:HG21</td>
<td>6:E:166:LYS:HZ3</td>
<td>1.30</td>
<td>0.77</td>
</tr>
<tr>
<td>3:A:852:TYR:CE1</td>
<td>7:F:136:ARG:HG2</td>
<td>2.19</td>
<td>0.77</td>
</tr>
<tr>
<td>10:J:43:ARG:CG</td>
<td>10:J:46:CYS:HB2</td>
<td>2.12</td>
<td>0.77</td>
</tr>
<tr>
<td>3:A:1150:SER:OG</td>
<td>3:A:1264:GLU:OE1</td>
<td>2.02</td>
<td>0.77</td>
</tr>
<tr>
<td>3:A:1329:THR:HG22</td>
<td>3:A:1331:SER:H</td>
<td>1.50</td>
<td>0.77</td>
</tr>
<tr>
<td>5:C:227:THR:HG22</td>
<td>5:C:229:TYR:CE1</td>
<td>2.18</td>
<td>0.77</td>
</tr>
<tr>
<td>9:I:6:PHE:HB3</td>
<td>9:I:12:ASN:O</td>
<td>1.84</td>
<td>0.77</td>
</tr>
<tr>
<td>3:A:1155:ASP:OD2</td>
<td>3:A:1162:VAL:HG23</td>
<td>1.84</td>
<td>0.77</td>
</tr>
<tr>
<td>12:L:48:CYS:HB3</td>
<td>12:L:51:CYS:O</td>
<td>1.85</td>
<td>0.77</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>4:B:759:PRO:HD2</td>
<td>4:B:1046:PRO:HG3</td>
<td>1.67</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:112:LEU:HD12</td>
<td>4:B:113:TYR:N</td>
<td>1.99</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:645:SER:O</td>
<td>4:B:647:GLY:N</td>
<td>2.16</td>
<td>0.77</td>
</tr>
<tr>
<td>6:E:64:PRO:HG2</td>
<td>6:E:76:GLY:HA2</td>
<td>1.67</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:911:ILE:HG22</td>
<td>4:B:912:ILE:HG13</td>
<td>1.65</td>
<td>0.77</td>
</tr>
<tr>
<td>5:C:56:THR:HG21</td>
<td>5:C:145:CYS:SG</td>
<td>2.24</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:635:ARG:CG</td>
<td>4:B:636:PRO:HD3</td>
<td>2.13</td>
<td>0.77</td>
</tr>
<tr>
<td>5:C:4:GLU:HG3</td>
<td>5:C:5:GLY:H</td>
<td>1.50</td>
<td>0.77</td>
</tr>
<tr>
<td>5:C:46:ILE:CD1</td>
<td>5:C:72:LEU:HD11</td>
<td>2.15</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:1084:GLN:OE1</td>
<td>4:B:1084:GLN:N</td>
<td>2.18</td>
<td>0.77</td>
</tr>
<tr>
<td>7:F:81:THR:HG22</td>
<td>7:F:136:ARG:HH11</td>
<td>1.50</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:635:ARG:HD2</td>
<td>4:B:636:PRO:CD</td>
<td>2.14</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:640:VAL:O</td>
<td>4:B:650:GLU:O</td>
<td>2.03</td>
<td>0.77</td>
</tr>
<tr>
<td>4:B:956:THR:OG1</td>
<td>4:B:961:LEU:O</td>
<td>2.02</td>
<td>0.77</td>
</tr>
<tr>
<td>5:C:229:TYR:HD1</td>
<td>5:C:229:TYR:H</td>
<td>1.33</td>
<td>0.76</td>
</tr>
<tr>
<td>5:C:227:THR:HG22</td>
<td>5:C:229:TYR:HE1</td>
<td>1.51</td>
<td>0.76</td>
</tr>
<tr>
<td>4:B:1184:GLY:O</td>
<td>4:B:1186:ASP:N</td>
<td>2.18</td>
<td>0.76</td>
</tr>
<tr>
<td>6:E:127:ILE:HG12</td>
<td>6:E:127:ILE:O</td>
<td>1.84</td>
<td>0.76</td>
</tr>
<tr>
<td>3:A:1171:GLN:HB2</td>
<td>3:A:1172:LEU:CD2</td>
<td>2.16</td>
<td>0.76</td>
</tr>
<tr>
<td>3:A:1193:LEU:HD12</td>
<td>3:A:1194:ARG:N</td>
<td>2.00</td>
<td>0.76</td>
</tr>
<tr>
<td>3:A:96:ILE:HG22</td>
<td>3:A:97:ALA:N</td>
<td>2.00</td>
<td>0.76</td>
</tr>
<tr>
<td>7:F:135:ARG:HG2</td>
<td>7:F:137:TYR:HE1</td>
<td>1.50</td>
<td>0.76</td>
</tr>
<tr>
<td>8:H:89:LEU:O</td>
<td>8:H:91:ASP:N</td>
<td>2.18</td>
<td>0.76</td>
</tr>
<tr>
<td>4:B:1106:ARG:HH21</td>
<td>4:B:1109:GLY:N</td>
<td>1.83</td>
<td>0.76</td>
</tr>
<tr>
<td>4:B:46:GLN:HG3</td>
<td>4:B:47:GLN:H</td>
<td>1.50</td>
<td>0.76</td>
</tr>
<tr>
<td>4:B:427:ASP:HA</td>
<td>4:B:430:ARG:HH11</td>
<td>1.50</td>
<td>0.76</td>
</tr>
<tr>
<td>5:C:99:LEU:HD23</td>
<td>5:C:99:LEU:N</td>
<td>2.01</td>
<td>0.76</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:A:30:ILE:HG13</td>
<td>4:B:1183:LYS:HZ1</td>
<td>1.49</td>
<td>0.76</td>
</tr>
<tr>
<td>5:C:242:GLN:O</td>
<td>5:C:246:ARG:HG3</td>
<td>1.85</td>
<td>0.76</td>
</tr>
<tr>
<td>11:K:12:LEU:HD12</td>
<td>11:K:12:LEU:N</td>
<td>2.00</td>
<td>0.76</td>
</tr>
<tr>
<td>11:K:46:ILE:CG2</td>
<td>11:K:50:LEU:HD12</td>
<td>2.16</td>
<td>0.76</td>
</tr>
<tr>
<td>3:A:528:LEU:C</td>
<td>3:A:530:GLY:N</td>
<td>2.38</td>
<td>0.76</td>
</tr>
<tr>
<td>4:B:859:TYR:OH</td>
<td>4:B:941:LEU:HD22</td>
<td>1.86</td>
<td>0.76</td>
</tr>
<tr>
<td>4:B:521:LEU:HD21</td>
<td>4:B:635:ARG:HG2</td>
<td>1.67</td>
<td>0.75</td>
</tr>
<tr>
<td>3:A:1154:TYR:HE1</td>
<td>9:I:18:GLU:HG2</td>
<td>1.50</td>
<td>0.75</td>
</tr>
<tr>
<td>9:I:29:CYS:SG</td>
<td>9:I:31:THR:CB</td>
<td>2.74</td>
<td>0.75</td>
</tr>
<tr>
<td>3:A:896:ARG:HD2</td>
<td>3:A:897:TYR:HE1</td>
<td>1.51</td>
<td>0.75</td>
</tr>
<tr>
<td>3:A:901:LEU:O</td>
<td>3:A:903:ASN:N</td>
<td>2.20</td>
<td>0.75</td>
</tr>
<tr>
<td>4:B:1072:MET:CE</td>
<td>4:B:1085:ILE:HG21</td>
<td>2.17</td>
<td>0.75</td>
</tr>
<tr>
<td>10:J:10:CYS:HB2</td>
<td>10:J:45:CYS:SG</td>
<td>2.25</td>
<td>0.75</td>
</tr>
<tr>
<td>6:E:198:ILE:HD11</td>
<td>6:E:212:ARG:HG3</td>
<td>1.68</td>
<td>0.75</td>
</tr>
<tr>
<td>4:B:640:VAL:HG23</td>
<td>4:B:740:HIS:N</td>
<td>2.00</td>
<td>0.75</td>
</tr>
<tr>
<td>3:A:352:VAL:HG12</td>
<td>3:A:353:ILE:N</td>
<td>2.00</td>
<td>0.75</td>
</tr>
<tr>
<td>4:B:99:LYS:HB3</td>
<td>4:B:180:TYR:CE2</td>
<td>2.21</td>
<td>0.75</td>
</tr>
<tr>
<td>5:C:51:VAL:HG22</td>
<td>5:C:155:LEU:HD22</td>
<td>1.66</td>
<td>0.75</td>
</tr>
<tr>
<td>5:C:5:GLY:O</td>
<td>5:C:7:GLN:HG2</td>
<td>1.87</td>
<td>0.75</td>
</tr>
<tr>
<td>12:L:48:CYS:CB</td>
<td>12:L:51:CYS:O</td>
<td>2.34</td>
<td>0.75</td>
</tr>
<tr>
<td>3:A:1394:THR:HG22</td>
<td>3:A:1395:GLY:N</td>
<td>2.01</td>
<td>0.75</td>
</tr>
<tr>
<td>3:A:1444:MET:HB2</td>
<td>7:F:133:VAL:HG12</td>
<td>1.67</td>
<td>0.75</td>
</tr>
<tr>
<td>3:A:444:PHE:HB3</td>
<td>3:A:458:HIS:HD2</td>
<td>1.50</td>
<td>0.75</td>
</tr>
<tr>
<td>4:B:1024:ALA:HA</td>
<td>4:B:1027:ILE:HD12</td>
<td>1.67</td>
<td>0.75</td>
</tr>
<tr>
<td>4:B:385:LEU:O</td>
<td>4:B:385:LEU:HG</td>
<td>1.86</td>
<td>0.75</td>
</tr>
<tr>
<td>4:B:556:THR:HG22</td>
<td>4:B:557:PHE:N</td>
<td>2.02</td>
<td>0.75</td>
</tr>
<tr>
<td>4:B:806:THR:HG22</td>
<td>4:B:808:ALA:N</td>
<td>2.00</td>
<td>0.75</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>7:F:125:LEU:HB2</td>
<td>7:F:130:ILE:HD12</td>
<td>1.69</td>
<td>0.75</td>
</tr>
<tr>
<td>3:A:1208:THR:OG1</td>
<td>3:A:1211:GLN:OE1</td>
<td>2.03</td>
<td>0.75</td>
</tr>
<tr>
<td>4:B:46:GLN:HE22</td>
<td>4:B:496:ARG:HA</td>
<td>1.52</td>
<td>0.75</td>
</tr>
<tr>
<td>5:C:123:ASN:HD22</td>
<td>5:C:125:MET:HG2</td>
<td>1.51</td>
<td>0.75</td>
</tr>
<tr>
<td>6:E:111:VAL:CG1</td>
<td>6:E:111:VAL:O</td>
<td>2.35</td>
<td>0.75</td>
</tr>
<tr>
<td>4:B:1066:SER:O</td>
<td>4:B:1067:ARG:HD3</td>
<td>1.87</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:482:VAL:O</td>
<td>4:B:482:VAL:HG23</td>
<td>1.87</td>
<td>0.74</td>
</tr>
<tr>
<td>8:H:7:ASP:O</td>
<td>8:H:8:ASP:HB2</td>
<td>1.87</td>
<td>0.74</td>
</tr>
<tr>
<td>9:I:111:THR:HG22</td>
<td>9:I:113:ASP:H</td>
<td>1.52</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:1364:ASN:ND2</td>
<td>3:A:1366:ARG:HH11</td>
<td>1.84</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:421:PHE:O</td>
<td>4:B:425:THR:HB</td>
<td>1.86</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:90:VAL:CG1</td>
<td>3:A:297:GLN:NE2</td>
<td>2.41</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:899:ILE:HD11</td>
<td>4:B:911:ILE:CG1</td>
<td>2.18</td>
<td>0.74</td>
</tr>
<tr>
<td>10:J:3:VAL:HG21</td>
<td>10:J:18:TRP:CB</td>
<td>2.17</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:680:THR:HG22</td>
<td>3:A:681:GLU:N</td>
<td>2.00</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:977:GLY:CA</td>
<td>4:B:1099:VAL:CG2</td>
<td>2.63</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:96:TYR:N</td>
<td>4:B:129:PHE:O</td>
<td>2.21</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:546:SER:OG</td>
<td>4:B:631:GLY:N</td>
<td>2.19</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:955:THR:CG2</td>
<td>4:B:956:THR:N</td>
<td>2.44</td>
<td>0.74</td>
</tr>
<tr>
<td>9:I:50:THR:HG22</td>
<td>9:I:52:ILE:H</td>
<td>1.52</td>
<td>0.74</td>
</tr>
<tr>
<td>11:K:40:HIS:CE1</td>
<td>11:K:63:VAL:CG1</td>
<td>2.70</td>
<td>0.74</td>
</tr>
<tr>
<td>11:K:87:LEU:O</td>
<td>11:K:90:ALA:HB3</td>
<td>1.86</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:1025:ARG:CG</td>
<td>3:A:1025:ARG:HH11</td>
<td>2.00</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:986:GLN:HE21</td>
<td>4:B:1016:ALA:HB1</td>
<td>1.51</td>
<td>0.74</td>
</tr>
<tr>
<td>5:C:241:ASP:O</td>
<td>5:C:245:VAL:HG23</td>
<td>1.87</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:742:ASN:HA</td>
<td>3:A:745:GLN:HB2</td>
<td>1.70</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:428:ILE:C</td>
<td>4:B:430:ARG:N</td>
<td>2.35</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:464:GLY:CA</td>
<td>4:B:478:GLY:HA2</td>
<td>2.15</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:1025:ARG:HA</td>
<td>3:A:1030:ARG:NH1</td>
<td>2.03</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:401:GLY:N</td>
<td>3:A:435:GLN:HD2</td>
<td>1.84</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:4:GLN:HE22</td>
<td>4:B:1159:ARG:H</td>
<td>1.33</td>
<td>0.74</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>4:B:1165:ILE:CG2</td>
<td>4:B:1166:CYS:N</td>
<td>2.48</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:128:LEU:HB3</td>
<td>4:B:167:ILE:O</td>
<td>1.87</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:174:LEU:HD12</td>
<td>4:B:179:CYS:SG</td>
<td>2.28</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:247:GLY:O</td>
<td>4:B:248:SER:HB2</td>
<td>1.86</td>
<td>0.74</td>
</tr>
<tr>
<td>5:C:58:LEU:N</td>
<td>5:C:58:LEU:HD23</td>
<td>2.03</td>
<td>0.74</td>
</tr>
<tr>
<td>9:I:31:THR:HG22</td>
<td>9:I:32:CYS:N</td>
<td>2.03</td>
<td>0.74</td>
</tr>
<tr>
<td>11:K:27:ALA:HB1</td>
<td>11:K:28:PRO:CD</td>
<td>2.17</td>
<td>0.74</td>
</tr>
<tr>
<td>4:B:247:GLY:O</td>
<td>4:B:248:SER:CB</td>
<td>2.36</td>
<td>0.74</td>
</tr>
<tr>
<td>1:R:8:G:O2'</td>
<td>1:R:9:G:H5'</td>
<td>1.87</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:1004:ASN:C</td>
<td>3:A:1004:ASN:OD1</td>
<td>2.27</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:569:LYS:HC2</td>
<td>3:A:571:LEU:CD1</td>
<td>2.17</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:902:LEU:O</td>
<td>3:A:903:ASN:HB2</td>
<td>1.88</td>
<td>0.74</td>
</tr>
<tr>
<td>1:R:9:G:CA1</td>
<td>4:B:1097:HIS:NE2</td>
<td>2.51</td>
<td>0.74</td>
</tr>
<tr>
<td>5:C:145:CYS:HA</td>
<td>10:J:2:ILE:HD11</td>
<td>1.67</td>
<td>0.74</td>
</tr>
<tr>
<td>8:H:104:PHE:CZ</td>
<td>8:H:136:LYS:HA</td>
<td>2.23</td>
<td>0.74</td>
</tr>
<tr>
<td>8:H:84:ALA:HB1</td>
<td>8:H:87:ARG:HB2</td>
<td>1.70</td>
<td>0.74</td>
</tr>
<tr>
<td>3:A:1355:VAL:CG1</td>
<td>3:A:1356:ILE:N</td>
<td>2.51</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:291:ILE:CG2</td>
<td>4:B:297:ILE:HD13</td>
<td>2.18</td>
<td>0.73</td>
</tr>
<tr>
<td>5:C:58:LEU:HD11</td>
<td>10:J:2:ILE:HD12</td>
<td>1.70</td>
<td>0.73</td>
</tr>
<tr>
<td>1:R:10:A:H8</td>
<td>1:R:10:A:OP2</td>
<td>1.70</td>
<td>0.73</td>
</tr>
<tr>
<td>3:A:1237:ILE:HG22</td>
<td>3:A:1238:ILE:N</td>
<td>2.01</td>
<td>0.73</td>
</tr>
<tr>
<td>3:A:43:GLU:O</td>
<td>3:A:46:THR:HB</td>
<td>1.87</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:862:GLN:O</td>
<td>4:B:914:LYS:NZ</td>
<td>2.20</td>
<td>0.73</td>
</tr>
<tr>
<td>5:C:37:MET:SD</td>
<td>5:C:232:VAL:HG21</td>
<td>2.27</td>
<td>0.73</td>
</tr>
<tr>
<td>12:L:46:VAL:O</td>
<td>12:L:47:ARG:HB2</td>
<td>1.87</td>
<td>0.73</td>
</tr>
<tr>
<td>3:A:1355:VAL:HG12</td>
<td>3:A:1356:ILE:H</td>
<td>1.51</td>
<td>0.73</td>
</tr>
<tr>
<td>3:A:320:ARG:HH21</td>
<td>4:B:471:LYS:CB</td>
<td>2.01</td>
<td>0.73</td>
</tr>
<tr>
<td>3:A:828:ALA:CB</td>
<td>4:B:530:GLY:HA2</td>
<td>2.18</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:310:MET:O</td>
<td>4:B:313:MET:HB2</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:784:ASN:ND2</td>
<td>4:B:788:ARG:HD2</td>
<td>2.02</td>
<td>0.73</td>
</tr>
<tr>
<td>8:H:108:SER:O</td>
<td>8:H:109:LYS:CB</td>
<td>2.36</td>
<td>0.73</td>
</tr>
<tr>
<td>1:R:9:G:CA1</td>
<td>4:B:1097:HIS:NE2</td>
<td>2.04</td>
<td>0.73</td>
</tr>
<tr>
<td>3:A:179:LEU:HD13</td>
<td>3:A:297:GLN:HG2</td>
<td>1.71</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:843:GLN:HA</td>
<td>4:B:846:ILE:HD12</td>
<td>1.68</td>
<td>0.73</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>11:K:40:HIS:HE1</td>
<td>11:K:63:VAL:CG1</td>
<td>2.01</td>
<td>0.73</td>
</tr>
<tr>
<td>12:L:29:TYR:HB3</td>
<td>12:L:56:LEU:HD22</td>
<td>1.70</td>
<td>0.73</td>
</tr>
<tr>
<td>3:A:541:ILE:HG22</td>
<td>3:A:546:VAL:HG22</td>
<td>1.70</td>
<td>0.73</td>
</tr>
<tr>
<td>5:C:120:ILE:HD11</td>
<td>5:C:130:GLY:O</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>5:C:69:LEU:O</td>
<td>10:J:6:ARG:HD2</td>
<td>1.87</td>
<td>0.73</td>
</tr>
<tr>
<td>8:H:42:ILE:O</td>
<td>8:H:44:VAL:HG23</td>
<td>1.89</td>
<td>0.73</td>
</tr>
<tr>
<td>10:J:45:CYS:O</td>
<td>10:J:48:ARG:HG3</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>11:K:58:PHE:HE2</td>
<td>11:K:74:ARG:NE</td>
<td>1.82</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:541:LEU:HD12</td>
<td>4:B:747:MET:HE1</td>
<td>1.70</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:369:GLY:O</td>
<td>4:B:370:PHE:HD1</td>
<td>1.71</td>
<td>0.73</td>
</tr>
<tr>
<td>6:E:162:ARG:NH2</td>
<td>6:E:166:LYS:NZ</td>
<td>2.36</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:1152:MET:O</td>
<td>4:B:1157:ALA:HB2</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:287:ARG:CG</td>
<td>4:B:292:ILE:HD13</td>
<td>2.16</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:63:ILE:HA</td>
<td>4:B:421:PHE:CE2</td>
<td>2.24</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:698:GLU:O</td>
<td>4:B:701:ILE:CD1</td>
<td>2.37</td>
<td>0.73</td>
</tr>
<tr>
<td>6:E:179:GLN:HB2</td>
<td>6:E:182:ASP:HB2</td>
<td>1.68</td>
<td>0.73</td>
</tr>
<tr>
<td>8:H:11:GLN:N</td>
<td>8:H:29:ALA:O</td>
<td>2.21</td>
<td>0.73</td>
</tr>
<tr>
<td>3:A:1422:ARG:NH2</td>
<td>4:B:1220:ARG:HD3</td>
<td>1.99</td>
<td>0.73</td>
</tr>
<tr>
<td>3:A:1428:VAL:HG13</td>
<td>4:B:1151:LEU:CD2</td>
<td>2.19</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:1165:ILE:HG22</td>
<td>4:B:1166:CYS:H</td>
<td>1.50</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:195:CYS:HB3</td>
<td>4:B:782:LEU:HD22</td>
<td>1.69</td>
<td>0.73</td>
</tr>
<tr>
<td>4:B:882:THR:HG22</td>
<td>4:B:883:LEU:N</td>
<td>2.02</td>
<td>0.73</td>
</tr>
<tr>
<td>3:A:1161:THR:HG22</td>
<td>3:A:1162:VAL:H</td>
<td>1.54</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:227:LYS:N</td>
<td>4:B:395:GLN:OE1</td>
<td>2.21</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:55:VAL:HG12</td>
<td>4:B:56:ASP:N</td>
<td>2.02</td>
<td>0.72</td>
</tr>
<tr>
<td>3:A:1169:ILE:HD12</td>
<td>3:A:1169:ILE:N</td>
<td>2.00</td>
<td>0.72</td>
</tr>
<tr>
<td>3:A:1067:LEU:CD2</td>
<td>3:A:1367:HIS:HE1</td>
<td>2.00</td>
<td>0.72</td>
</tr>
<tr>
<td>3:A:553:VAL:HG13</td>
<td>3:A:648:ASN:HB3</td>
<td>1.70</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:1203:LEU:CD1</td>
<td>4:B:1207:LEU:HG</td>
<td>2.19</td>
<td>0.72</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>4:B:708:GLU:C</td>
<td>4:B:710:LEU:H</td>
<td>1.91</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:783:THR:HG22</td>
<td>10:J:63:TYR:HE1</td>
<td>1.54</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:751:VAL:HG12</td>
<td>4:B:752:ALA:H</td>
<td>1.54</td>
<td>0.72</td>
</tr>
<tr>
<td>8:H:93:TYR:CD1</td>
<td>8:H:143:LEU:CB</td>
<td>2.72</td>
<td>0.72</td>
</tr>
<tr>
<td>9:I:33:SER:O</td>
<td>9:I:35:VAL:HG23</td>
<td>1.89</td>
<td>0.72</td>
</tr>
<tr>
<td>3:A:1156:PRO:O</td>
<td>3:A:1158:PRO:HD3</td>
<td>1.90</td>
<td>0.72</td>
</tr>
<tr>
<td>3:A:1397:LEU:O</td>
<td>3:A:1400:CYS:HB2</td>
<td>1.90</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:708:GLU:HG3</td>
<td>4:B:709:ASP:N</td>
<td>2.04</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:817:LEU:N</td>
<td>4:B:818:PRO:HD3</td>
<td>2.02</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:868:MET:O</td>
<td>4:B:869:SER:OG</td>
<td>2.04</td>
<td>0.72</td>
</tr>
<tr>
<td>3:A:1209:MET:SD</td>
<td>3:A:1236:LEU:HD22</td>
<td>2.29</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:123:THR:HG22</td>
<td>4:B:125:SER:HB3</td>
<td>1.70</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:129:PHE:CE2</td>
<td>4:B:166:PHE:HB3</td>
<td>2.24</td>
<td>0.72</td>
</tr>
<tr>
<td>6:E:124:VAL:H</td>
<td>6:E:125:PRO:HD2</td>
<td>1.54</td>
<td>0.72</td>
</tr>
<tr>
<td>6:E:178:ILE:HG12</td>
<td>6:E:179:GLN:N</td>
<td>2.03</td>
<td>0.72</td>
</tr>
<tr>
<td>9:I:19:ASP:CB</td>
<td>9:I:24:ARG:HG3</td>
<td>2.20</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:166:PHE:CD2</td>
<td>4:B:166:PHE:C</td>
<td>2.61</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:830:TYR:HE1</td>
<td>4:B:1000:PRO:HB3</td>
<td>1.53</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:98:THR:O</td>
<td>4:B:126:SER:CB</td>
<td>2.38</td>
<td>0.72</td>
</tr>
<tr>
<td>5:C:57:VAL:HB</td>
<td>5:C:58:LEU:HD23</td>
<td>1.70</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:474:SER:O</td>
<td>4:B:475:SER:C</td>
<td>2.28</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:56:ASP:C</td>
<td>4:B:57:TYR:HD1</td>
<td>1.93</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:638:PHE:CD1</td>
<td>4:B:743:ILE:HD13</td>
<td>2.24</td>
<td>0.72</td>
</tr>
<tr>
<td>6:E:37:LEU:HG</td>
<td>6:E:37:LEU:O</td>
<td>1.88</td>
<td>0.72</td>
</tr>
<tr>
<td>10:J:52:THR:O</td>
<td>10:J:54:VAL:HG23</td>
<td>1.90</td>
<td>0.72</td>
</tr>
<tr>
<td>3:A:565:ILE:HG12</td>
<td>3:A:567:LYS:HZ1</td>
<td>1.54</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:1065:GLN:HE21</td>
<td>4:B:1067:ARG:H</td>
<td>1.38</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:112:LEU:O</td>
<td>4:B:180:TYR:HE1</td>
<td>1.73</td>
<td>0.72</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>10:J:7:CYS:CA</td>
<td>10:J:49:MET:HE3</td>
<td>2.19</td>
<td>0.72</td>
</tr>
<tr>
<td>4:B:1196:ILE:HB</td>
<td>4:B:1197:PRO:HD2</td>
<td>1.72</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:356:LEU:HD23</td>
<td>4:B:356:LEU:N</td>
<td>2.04</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:426:LYS:O</td>
<td>4:B:430:ARG:HD2</td>
<td>1.91</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:796:LEU:HB3</td>
<td>4:B:799:PRO:CD</td>
<td>2.19</td>
<td>0.71</td>
</tr>
<tr>
<td>8:H:51:ALA:O</td>
<td>8:H:52:GLN:C</td>
<td>2.28</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:291:ILE:HG22</td>
<td>4:B:297:ILE:HD13</td>
<td>1.73</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:63:ILE:CD1</td>
<td>4:B:95:ILE:HD12</td>
<td>2.21</td>
<td>0.71</td>
</tr>
<tr>
<td>9:I:15:TYR:O</td>
<td>9:I:27:PHE:HD2</td>
<td>1.73</td>
<td>0.71</td>
</tr>
<tr>
<td>10:J:3:VAL:HG21</td>
<td>10:J:18:TRP:HB2</td>
<td>1.72</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:527:THR:OG1</td>
<td>4:B:528:PRO:HD2</td>
<td>1.90</td>
<td>0.71</td>
</tr>
<tr>
<td>3:A:1194:ARG:NH2</td>
<td>3:A:1237:ILE:CD1</td>
<td>2.54</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:1006:ILE:HD11</td>
<td>10:J:45:CY5:SG</td>
<td>2.30</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:723:VAL:O</td>
<td>4:B:724:ASP:C</td>
<td>2.29</td>
<td>0.71</td>
</tr>
<tr>
<td>3:A:1116:LEU:N</td>
<td>3:A:1308:THR:HB</td>
<td>2.03</td>
<td>0.71</td>
</tr>
<tr>
<td>3:A:530:GLY:O</td>
<td>3:A:531:ILE:C</td>
<td>2.29</td>
<td>0.71</td>
</tr>
<tr>
<td>3:A:785:PRO:HG2</td>
<td>4:B:703:ILE:HD12</td>
<td>1.72</td>
<td>0.71</td>
</tr>
<tr>
<td>11:K:102:LYS:O</td>
<td>11:K:106:GLU:HG3</td>
<td>1.90</td>
<td>0.71</td>
</tr>
<tr>
<td>3:A:475:THR:HG22</td>
<td>3:A:476:SER:N</td>
<td>2.05</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:287:ARG:NH1</td>
<td>4:B:324:ILE:O</td>
<td>2.24</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:952:VAL:HG22</td>
<td>4:B:966:VAL:HG13</td>
<td>1.73</td>
<td>0.71</td>
</tr>
<tr>
<td>3:A:265:LYS:HE2</td>
<td>3:A:323:LYS:CE</td>
<td>2.18</td>
<td>0.71</td>
</tr>
<tr>
<td>3:A:869:GLY:O</td>
<td>3:A:870:GLU:HB2</td>
<td>1.88</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:37:PHE:O</td>
<td>4:B:39:ARG:N</td>
<td>2.23</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:1155:SER:OG</td>
<td>4:B:1156:ASP:N</td>
<td>2.21</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:34:ILE:HD11</td>
<td>4:B:743:ILE:HG22</td>
<td>1.72</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:63:ILE:HD13</td>
<td>4:B:95:ILE:HD12</td>
<td>1.71</td>
<td>0.71</td>
</tr>
<tr>
<td>4:B:788:ARG:HB2</td>
<td>4:B:788:ARG:HH11</td>
<td>1.56</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>11:K:53:ASP:O</td>
<td>11:K:56:VAL:CG2</td>
<td>2.35</td>
<td>0.71</td>
</tr>
<tr>
<td>3:A:255:SER:HB3</td>
<td>4:B:918:ILE:HG23</td>
<td>1.73</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:530:GLY:O</td>
<td>3:A:532:ARG:N</td>
<td>2.22</td>
<td>0.70</td>
</tr>
<tr>
<td>6:E:39:LEU:O</td>
<td>6:E:40:GLU:C</td>
<td>2.28</td>
<td>0.70</td>
</tr>
<tr>
<td>6:E:39:LEU:O</td>
<td>6:E:41:ASP:N</td>
<td>2.24</td>
<td>0.70</td>
</tr>
<tr>
<td>2:T:4:DA:HG2</td>
<td>2:T:5:DT:HG2</td>
<td>1.73</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:1227:ILE:HG2</td>
<td>3:A:1228:TRP:N</td>
<td>2.06</td>
<td>0.70</td>
</tr>
<tr>
<td>7:F:83:PRO:HG2</td>
<td>7:F:84:TYR:HD1</td>
<td>1.55</td>
<td>0.70</td>
</tr>
<tr>
<td>11:K:33:ILE:HG13</td>
<td>11:K:87:LEU:HG22</td>
<td>1.72</td>
<td>0.70</td>
</tr>
<tr>
<td>11:K:91:CYS:O</td>
<td>11:K:94:ILE:HB</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:106:VAL:HG12</td>
<td>3:A:107:CYS:N</td>
<td>2.05</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:1161:THR:CG2</td>
<td>3:A:1162:VAL:H</td>
<td>2.04</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:92:HIS:O</td>
<td>3:A:95:PHE:HB2</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>4:B:1060:ARG:O</td>
<td>4:B:1063:GLY:N</td>
<td>2.24</td>
<td>0.70</td>
</tr>
<tr>
<td>4:B:179:CYS:SG</td>
<td>4:B:181:LEU:HD12</td>
<td>2.30</td>
<td>0.70</td>
</tr>
<tr>
<td>4:B:27:ALA:O</td>
<td>4:B:28:GLU:C</td>
<td>2.26</td>
<td>0.70</td>
</tr>
<tr>
<td>4:B:857:ARG:NH2</td>
<td>4:B:942:ARG:NH1</td>
<td>2.38</td>
<td>0.70</td>
</tr>
<tr>
<td>8:H:44:VAL:HG12</td>
<td>8:H:44:VAL:O</td>
<td>1.92</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:107:CYS:N</td>
<td>3:A:114:LEU:HD21</td>
<td>2.06</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:302:THR:OG1</td>
<td>3:A:313:GLN:NE2</td>
<td>2.24</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:381:THR:HG22</td>
<td>3:A:383:TYR:HB2</td>
<td>1.72</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:1041:ALA:O</td>
<td>3:A:1044:TRP:HB3</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:39:GLU:O</td>
<td>3:A:53:LEU:HB2</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>5:C:131:HIS:O</td>
<td>5:C:132:PRO:C</td>
<td>2.28</td>
<td>0.70</td>
</tr>
<tr>
<td>5:C:237:SER:O</td>
<td>5:C:238:ILE:HG13</td>
<td>1.89</td>
<td>0.70</td>
</tr>
<tr>
<td>7:F:98:ALA:CA</td>
<td>7:F:101:ILE:HG12</td>
<td>2.21</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:1428:VAL:HG13</td>
<td>4:B:1151:LEU:HD23</td>
<td>1.72</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:40:THR:O</td>
<td>3:A:41:MET:HG3</td>
<td>1.90</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:894:GLU:C</td>
<td>3:A:896:ARG:N</td>
<td>2.43</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:971:PHE:HB2</td>
<td>3:A:973:ILE:HD13</td>
<td>1.72</td>
<td>0.70</td>
</tr>
<tr>
<td>4:B:115:GLN:O</td>
<td>4:B:119:LEU:HD12</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>8:H:109:LYS:HB3</td>
<td>8:H:110:ASP:CG</td>
<td>2.10</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:1285:MET:HG2</td>
<td>3:A:1307:GLU:OE2</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:805:LEU:C</td>
<td>3:A:805:LEU:CD1</td>
<td>2.60</td>
<td>0.70</td>
</tr>
<tr>
<td>4:B:1060:ARG:O</td>
<td>4:B:1062:HIS:N</td>
<td>2.25</td>
<td>0.70</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>4:B:274:PRO:O</td>
<td>4:B:276:ILE:HG13</td>
<td>1.92</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:1143:LEU:O</td>
<td>3:A:1146:VAL:HG23</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:1213:GLY:HA2</td>
<td>3:A:1216:ILE:HD12</td>
<td>1.74</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:120:GLU:HG3</td>
<td>3:A:123:ARG:HD3</td>
<td>1.74</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:179:LEU:HD12</td>
<td>3:A:297:GLN:HG2</td>
<td>1.73</td>
<td>0.70</td>
</tr>
<tr>
<td>4:B:1084:GLN:HG2</td>
<td>5:C:201:TRP:CH2</td>
<td>2.27</td>
<td>0.70</td>
</tr>
<tr>
<td>5:C:11:ARG:HE</td>
<td>5:C:21:ILE:HD11</td>
<td>1.56</td>
<td>0.70</td>
</tr>
<tr>
<td>6:E:113:GLN:O</td>
<td>6:E:114:ASN:ND2</td>
<td>2.25</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:1017:LEU:HB2</td>
<td>6:E:205:SER:HA</td>
<td>1.74</td>
<td>0.70</td>
</tr>
<tr>
<td>7:F:72:LYS:O</td>
<td>7:F:73:ALA:HB2</td>
<td>1.90</td>
<td>0.70</td>
</tr>
<tr>
<td>2:T:6:DC:C2'</td>
<td>2:T:7:DC:H5'</td>
<td>2.18</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:1152:ILE:HG22</td>
<td>3:A:1152:ILE:O</td>
<td>1.90</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:261:ASP:HB3</td>
<td>3:A:323:LYS:CG</td>
<td>2.22</td>
<td>0.70</td>
</tr>
<tr>
<td>3:A:599:SER:HB3</td>
<td>3:A:603:ASN:H</td>
<td>1.57</td>
<td>0.70</td>
</tr>
<tr>
<td>4:B:423:LYS:NZ</td>
<td>4:B:423:LYS:HB2</td>
<td>2.07</td>
<td>0.70</td>
</tr>
<tr>
<td>6:E:29:PHE:O</td>
<td>6:E:30:ILE:HG13</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>4:B:992:ILE:CD1</td>
<td>11:K:67:PHE:HE2</td>
<td>2.04</td>
<td>0.70</td>
</tr>
<tr>
<td>4:B:642:ASP:O</td>
<td>4:B:644:GLU:N</td>
<td>2.25</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:634:TYR:CE1</td>
<td>4:B:692:TYR:HD1</td>
<td>2.09</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:739:THR:OG1</td>
<td>4:B:740:HIS:CE1</td>
<td>2.44</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:472:LEU:HD11</td>
<td>4:B:835:GLN:NE2</td>
<td>2.06</td>
<td>0.69</td>
</tr>
<tr>
<td>12:L:29:TYR:O</td>
<td>12:L:30:ILE:HG13</td>
<td>1.91</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:501:PRO:O</td>
<td>4:B:502:ILE:HB</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>6:E:198:ILE:CD1</td>
<td>6:E:212:ARG:HG3</td>
<td>2.22</td>
<td>0.69</td>
</tr>
<tr>
<td>11:K:51:LEU:HD13</td>
<td>11:K:59:ALA:HB3</td>
<td>1.73</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:893:LEU:HD21</td>
<td>4:B:913:GLY:N</td>
<td>2.07</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:840:ILE:HG12</td>
<td>4:B:992:ILE:HG22</td>
<td>1.74</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:302:THR:CG2</td>
<td>3:A:313:GLN:NE2</td>
<td>2.54</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:1103:ILE:CD1</td>
<td>4:B:1103:ILE:N</td>
<td>2.42</td>
<td>0.69</td>
</tr>
<tr>
<td>Atom-1</td>
<td>Atom-2</td>
<td>Interatomic distance (Å)</td>
<td>Clash overlap (Å)</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------</td>
<td>--------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>4:B:30:SER:O</td>
<td>4:B:34:ILE:HD13</td>
<td>1.91</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:313:MET:HG3</td>
<td>4:B:390:LEU:HD21</td>
<td>1.74</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:373:ARG:HA</td>
<td>4:B:566:LEU:HD23</td>
<td>1.74</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:882:THR:HG21</td>
<td>4:B:935:ARG:CA</td>
<td>2.17</td>
<td>0.69</td>
</tr>
<tr>
<td>5:C:110:THR:HG22</td>
<td>5:C:110:THR:O</td>
<td>1.91</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:901:ILE:HB2</td>
<td>3:A:926:GLN:HG2</td>
<td>1.75</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:899:ILE:HD11</td>
<td>4:B:911:ILE:HG23</td>
<td>1.74</td>
<td>0.69</td>
</tr>
<tr>
<td>6:E:35:VAL:O</td>
<td>6:E:37:LEU:N</td>
<td>2.25</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:380:VAL:CG2</td>
<td>3:A:430:TRP:N</td>
<td>2.50</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:1104:HIS:CG</td>
<td>4:B:1122:ARG:HB2</td>
<td>2.28</td>
<td>0.69</td>
</tr>
<tr>
<td>5:C:148:ARG:NH1</td>
<td>10:J:64:ASN:HA</td>
<td>2.06</td>
<td>0.69</td>
</tr>
<tr>
<td>6:E:60:PHE:CE2</td>
<td>6:E:80:VAL:HG21</td>
<td>2.27</td>
<td>0.69</td>
</tr>
<tr>
<td>10:J:52:THR:O</td>
<td>10:J:53:HIS:C</td>
<td>2.31</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:1113:THR:HG22</td>
<td>3:A:1113:THR:O</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:1148:ILE:HD11</td>
<td>3:A:1198:ASP:HB2</td>
<td>1.75</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:168:GLY:HA2</td>
<td>4:B:454:THR:HG1</td>
<td>1.55</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:175:ARG:HH11</td>
<td>4:B:175:ARG:CG</td>
<td>2.05</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:284:ILE:O</td>
<td>4:B:287:ARG:N</td>
<td>2.26</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:446:LEU:O</td>
<td>4:B:447:ALA:HB3</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:46:GLN:HE21</td>
<td>4:B:496:ARG:HG2</td>
<td>1.57</td>
<td>0.69</td>
</tr>
<tr>
<td>10:J:45:CYS:SG</td>
<td>10:J:46:CYS:N</td>
<td>2.65</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:451:HIS:CE1</td>
<td>3:A:1074:GLU:HG3</td>
<td>2.28</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:1161:THR:CG2</td>
<td>3:A:1162:VAL:N</td>
<td>2.56</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:1169:ILE:H</td>
<td>3:A:1169:ILE:CD1</td>
<td>1.90</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:1195:LEU:HD11</td>
<td>3:A:1267:MET:HE3</td>
<td>1.73</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:129:LYS:O</td>
<td>3:A:130:ASP:HB2</td>
<td>1.91</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:582:ILE:HG22</td>
<td>3:A:610:GLY:HA2</td>
<td>1.74</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:1095:LEU:C</td>
<td>4:B:1096:ARG:O</td>
<td>2.27</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:98:THR:O</td>
<td>4:B:126:SER:HB2</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:429:PHE:O</td>
<td>4:B:433:GLN:OE1</td>
<td>2.11</td>
<td>0.69</td>
</tr>
<tr>
<td>9:I:2:THR:O</td>
<td>9:I:3:THR:C</td>
<td>2.30</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:365:THR:HG23</td>
<td>4:B:366:GLN:N</td>
<td>2.06</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:420:LEU:HD21</td>
<td>4:B:468:GLU:OE2</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>7:F:120:ILE:HG22</td>
<td>7:F:121:ALA:N</td>
<td>2.07</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:800:GLN:CG</td>
<td>10:J:52:THR:HG21</td>
<td>2.23</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:1377:THR:C</td>
<td>3:A:1379:GLY:H</td>
<td>1.95</td>
<td>0.69</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:A:751:SER:HB2</td>
<td>4:B:1015:HIS:HE1</td>
<td>1.57</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:946:VAL:HG2</td>
<td>6:E:201:LYS:HB3</td>
<td>1.75</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:98:LYS:O</td>
<td>3:A:100:LYS:N</td>
<td>2.25</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:993:THR:O</td>
<td>4:B:994:TYR:HD2</td>
<td>1.76</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:1084:GLN:NE2</td>
<td>5:C:191:TYR:CA</td>
<td>2.55</td>
<td>0.69</td>
</tr>
<tr>
<td>8:H:142:LEU:C</td>
<td>8:H:143:LEU:HG</td>
<td>2.13</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:321:PRO:CG</td>
<td>3:A:322:VAL:N</td>
<td>2.54</td>
<td>0.69</td>
</tr>
<tr>
<td>4:B:236:HIS:CD2</td>
<td>4:B:389:ALA:HB2</td>
<td>2.26</td>
<td>0.69</td>
</tr>
<tr>
<td>5:C:46:ILE:HA</td>
<td>5:C:159:ALA:HA</td>
<td>1.75</td>
<td>0.69</td>
</tr>
<tr>
<td>8:H:113:ALA:CA</td>
<td>8:H:125:LEU:O</td>
<td>2.41</td>
<td>0.69</td>
</tr>
<tr>
<td>10:J:59:LYS:O</td>
<td>10:J:62:ARG:HB2</td>
<td>1.93</td>
<td>0.69</td>
</tr>
<tr>
<td>3:A:151:ASP:OD1</td>
<td>3:A:162:VAL:O</td>
<td>2.10</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:874:ASP:OD1</td>
<td>3:A:876:ALA:N</td>
<td>2.27</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:886:ILE:CD1</td>
<td>3:A:943:LEU:HB2</td>
<td>2.22</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:121:ASN:N</td>
<td>4:B:121:ASN:HD22</td>
<td>1.90</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:451:LYS:O</td>
<td>4:B:452:THR:C</td>
<td>2.31</td>
<td>0.68</td>
</tr>
<tr>
<td>5:C:173:ALA:O</td>
<td>5:C:174:ALA:CB</td>
<td>2.40</td>
<td>0.68</td>
</tr>
<tr>
<td>6:E:7:ARG:C</td>
<td>6:E:9:ILE:H</td>
<td>1.95</td>
<td>0.68</td>
</tr>
<tr>
<td>7:F:120:ILE:O</td>
<td>7:F:123:LYS:N</td>
<td>2.25</td>
<td>0.68</td>
</tr>
<tr>
<td>9:I:34:TYR:CD2</td>
<td>9:I:35:VAL:N</td>
<td>2.62</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:114:PRO:CG</td>
<td>4:B:181:LEU:HD11</td>
<td>2.24</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:26:GLU:HA</td>
<td>3:A:29:ALA:HB3</td>
<td>1.74</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:532:ARG:HG2</td>
<td>3:A:533:LYS:N</td>
<td>2.07</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:1147:LEU:HD22</td>
<td>4:B:1151:LEU:HD22</td>
<td>1.76</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:751:VAL:CG1</td>
<td>4:B:752:ALA:N</td>
<td>2.56</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:262:LEU:HG</td>
<td>3:A:328:ARG:NH2</td>
<td>2.09</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:858:ASN:ND2</td>
<td>3:A:858:ASN:C</td>
<td>2.46</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:205:ILE:HG22</td>
<td>4:B:206:ASN:ND2</td>
<td>2.09</td>
<td>0.68</td>
</tr>
<tr>
<td>5:C:163:ILE:HD12</td>
<td>5:C:166:GLU:HB2</td>
<td>1.76</td>
<td>0.68</td>
</tr>
<tr>
<td>5:C:92:CYS:SG</td>
<td>5:C:94:LYS:HB2</td>
<td>2.33</td>
<td>0.68</td>
</tr>
<tr>
<td>6:E:156:LEU:CD2</td>
<td>6:E:197:LYS:HB2</td>
<td>2.23</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:1254:ALA:O</td>
<td>3:A:1255:GLU:HB2</td>
<td>1.91</td>
<td>0.68</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>3:A:267:ALA:C</td>
<td>3:A:269:ILE:N</td>
<td>2.45</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:401:GLY:H</td>
<td>3:A:435:HIS:CD2</td>
<td>2.10</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:783:THR:CG2</td>
<td>3:A:815:PHE:CE2</td>
<td>2.77</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:809:THR:HB</td>
<td>3:A:810:PRO:HD2</td>
<td>1.74</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:852:TYR:CD2</td>
<td>3:A:1060:PRO:CB</td>
<td>2.77</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:873:MET:HG2</td>
<td>3:A:957:PRO:HG3</td>
<td>1.74</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:901:LEU:O</td>
<td>3:A:902:LEU:C</td>
<td>2.31</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:350:GLN:O</td>
<td>4:B:352:ALA:N</td>
<td>2.27</td>
<td>0.68</td>
</tr>
<tr>
<td>5:C:141:GLY:O</td>
<td>5:C:142:VAL:HB</td>
<td>1.91</td>
<td>0.68</td>
</tr>
<tr>
<td>9:I:75:CYS:SG</td>
<td>9:I:78:CYS:HB3</td>
<td>2.34</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:781:PHE:O</td>
<td>4:B:782:LEU:HG</td>
<td>1.93</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:994:TYR:HB2</td>
<td>4:B:999:MET:CE</td>
<td>2.23</td>
<td>0.68</td>
</tr>
<tr>
<td>5:C:39:ALA:HA</td>
<td>5:C:164:ALA:CB</td>
<td>2.24</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:847:ASP:HB3</td>
<td>5:C:167:HIS:CD2</td>
<td>2.28</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:497:THR:HG23</td>
<td>4:B:1146:PHE:HD1</td>
<td>1.59</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:858:ASN:ND2</td>
<td>3:A:860:LEU:H</td>
<td>1.92</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:114:PRO:HG3</td>
<td>4:B:181:LEU:CD1</td>
<td>2.24</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:363:HIS:O</td>
<td>4:B:364:ILE:CB</td>
<td>2.42</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:899:ILE:CD1</td>
<td>4:B:911:ILE:HG23</td>
<td>2.24</td>
<td>0.68</td>
</tr>
<tr>
<td>12:L:58:LYS:O</td>
<td>12:L:59:ALA:HB3</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:1095:THR:OG1</td>
<td>3:A:1113:THR:HB</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:1308:THR:HG22</td>
<td>3:A:1309:ASP:N</td>
<td>2.07</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:575:LYS:HB3</td>
<td>3:A:612:ILE:HG12</td>
<td>1.76</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:780:VAL:O</td>
<td>3:A:782:ARG:HG2</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:256:VAL:HG11</td>
<td>4:B:382:ILE:HD13</td>
<td>1.73</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:758:PHE:CE2</td>
<td>4:B:1044:ALA:HA</td>
<td>2.29</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:815:ARG:HG3</td>
<td>4:B:815:ARG:NH1</td>
<td>2.08</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:504:LEU:HD11</td>
<td>7:F:91:ALA:HB1</td>
<td>1.76</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:1308:THR:HG22</td>
<td>3:A:1310:GLY:N</td>
<td>2.09</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:10:PRO:O</td>
<td>4:B:1193:GLN:HB3</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:369:GLY:O</td>
<td>4:B:370:PHE:CD1</td>
<td>2.47</td>
<td>0.68</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>8:H:93:TYR:CD2</td>
<td>8:H:145:ARG:HD3</td>
<td>2.29</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:356:ASP:HB2</td>
<td>3:A:469:ARG:NH1</td>
<td>2.09</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:34:ILE:H</td>
<td>4:B:34:ILE:HD13</td>
<td>1.59</td>
<td>0.68</td>
</tr>
<tr>
<td>4:B:918:ILE:O</td>
<td>4:B:933:SER:N</td>
<td>2.27</td>
<td>0.68</td>
</tr>
<tr>
<td>9:I:117:LYS:O</td>
<td>9:I:118:ARG:HG2</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>3:A:211:PHE:O</td>
<td>3:A:213:His:N</td>
<td>2.27</td>
<td>0.67</td>
</tr>
<tr>
<td>3:A:30:ILE:HD11</td>
<td>4:B:1170:THR:OG1</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>11:K:7:PHE:HA</td>
<td>11:K:10:PHE:CE2</td>
<td>2.29</td>
<td>0.67</td>
</tr>
<tr>
<td>3:A:856:THR:HG22</td>
<td>3:A:856:THR:O</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:1024:ALA:HA</td>
<td>4:B:1027:ILE:CD1</td>
<td>2.23</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:36:ALA:C</td>
<td>4:B:37:PHE:O</td>
<td>2.21</td>
<td>0.67</td>
</tr>
<tr>
<td>5:C:115:SER:CB</td>
<td>5:C:141:GLY:O</td>
<td>2.40</td>
<td>0.67</td>
</tr>
<tr>
<td>5:C:245:VAL:HA</td>
<td>5:C:248:ILE:HD12</td>
<td>1.76</td>
<td>0.67</td>
</tr>
<tr>
<td>3:A:807:GLY:O</td>
<td>4:B:728:ARG:HD3</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:1156:ASP:HB3</td>
<td>4:B:1198:TYR:N</td>
<td>2.09</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:817:LEU:N</td>
<td>4:B:818:PRO:CD</td>
<td>2.57</td>
<td>0.67</td>
</tr>
<tr>
<td>5:C:32:SER:HA</td>
<td>5:C:35:ARG:HG3</td>
<td>1.74</td>
<td>0.67</td>
</tr>
<tr>
<td>5:C:143:LEU:C</td>
<td>5:C:143:LEU:HD12</td>
<td>2.13</td>
<td>0.67</td>
</tr>
<tr>
<td>8:H:47:PHE:CD2</td>
<td>8:H:95:TYR:HB2</td>
<td>2.29</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:597:MET:O</td>
<td>4:B:598:GLU:C</td>
<td>2.30</td>
<td>0.67</td>
</tr>
<tr>
<td>6:E:57:MET:O</td>
<td>6:E:57:MET:HG2</td>
<td>1.95</td>
<td>0.67</td>
</tr>
<tr>
<td>5:C:145:CYS:HA</td>
<td>10:J:2:ILE:CD1</td>
<td>2.23</td>
<td>0.67</td>
</tr>
<tr>
<td>3:A:1299:VAL:HG12</td>
<td>3:A:1300:LYS:N</td>
<td>2.01</td>
<td>0.67</td>
</tr>
<tr>
<td>3:A:1422:ARG:NH2</td>
<td>4:B:1220:ARG:CD</td>
<td>2.56</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:641:GLU:O</td>
<td>4:B:643:ASP:N</td>
<td>2.28</td>
<td>0.67</td>
</tr>
<tr>
<td>10:J:2:ILE:C</td>
<td>10:J:53:His:NE2</td>
<td>2.47</td>
<td>0.67</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:200:GLY:HA2</td>
<td>4:B:202:TYR:HE2</td>
<td>1.56</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:59:LEU:HD11</td>
<td>4:B:417:PHE:CE2</td>
<td>2.30</td>
<td>0.67</td>
</tr>
<tr>
<td>5:C:74:SER:HB3</td>
<td>5:C:77:ILE:HG13</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>1:R:5:A:H2'</td>
<td>1:R:6:G:C8</td>
<td>2.30</td>
<td>0.67</td>
</tr>
<tr>
<td>3:A:889:SER:O</td>
<td>3:A:940:ARG:NH2</td>
<td>2.27</td>
<td>0.67</td>
</tr>
<tr>
<td>3:A:751:SER:HB2</td>
<td>4:B:1015:HIS:CE1</td>
<td>2.30</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:1069:PHE:HA</td>
<td>4:B:1085:ILE:O</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:1104:His:CB</td>
<td>4:B:1122:ARG:HB2</td>
<td>2.24</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:1180:PHE:O</td>
<td>4:B:1181:GLU:O</td>
<td>2.12</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:986:GLN:NE2</td>
<td>4:B:1016:ALA:HB1</td>
<td>2.09</td>
<td>0.67</td>
</tr>
<tr>
<td>5:C:18:VAL:CG2</td>
<td>5:C:24:VAL:CG1</td>
<td>2.73</td>
<td>0.67</td>
</tr>
<tr>
<td>6:E:190:LEU:HD23</td>
<td>6:E:190:LEU:N</td>
<td>2.09</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:321:GLY:O</td>
<td>4:B:323:VAL:N</td>
<td>2.25</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:957:ASN:O</td>
<td>4:B:958:GLN:C</td>
<td>2.32</td>
<td>0.67</td>
</tr>
<tr>
<td>5:C:186:LEU:HB3</td>
<td>5:C:188:HIS:HD2</td>
<td>1.60</td>
<td>0.67</td>
</tr>
<tr>
<td>8:H:128:ASN:OD1</td>
<td>8:H:131:ASN:ND2</td>
<td>2.28</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:562:GLY:HA3</td>
<td>4:B:590:HIS:CE1</td>
<td>2.30</td>
<td>0.67</td>
</tr>
<tr>
<td>5:C:226:ASP:O</td>
<td>5:C:227:THR:HB</td>
<td>1.95</td>
<td>0.67</td>
</tr>
<tr>
<td>11:K:10:PHE:CE1</td>
<td>11:K:11:LEU:HD13</td>
<td>2.30</td>
<td>0.67</td>
</tr>
<tr>
<td>4:B:1060:ARG:C</td>
<td>4:B:1062:HIS:H</td>
<td>1.99</td>
<td>0.66</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:376:PHE:CE2</td>
<td>4:B:569:TYR:HD2</td>
<td>2.13</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:797:TYR:O</td>
<td>4:B:799:PRO:HD2</td>
<td>1.94</td>
<td>0.66</td>
</tr>
<tr>
<td>5:C:240:VAL:O</td>
<td>5:C:243:VAL:N</td>
<td>2.28</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:1120:GLU:O</td>
<td>4:B:1124:ARG:NH1</td>
<td>2.28</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:1203:LEU:HD12</td>
<td>4:B:1207:LEU:HG</td>
<td>1.78</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:778:MET:CE</td>
<td>4:B:853:SER:HB3</td>
<td>2.25</td>
<td>0.66</td>
</tr>
<tr>
<td>5:C:249:ASP:OD1</td>
<td>5:C:253:LYS:HE3</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:1170:THR:CG2</td>
<td>4:B:1183:LYS:HZ1</td>
<td>2.08</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:352:ALA:C</td>
<td>4:B:354:ASP:H</td>
<td>1.97</td>
<td>0.66</td>
</tr>
<tr>
<td>8:H:76:THR:O</td>
<td>8:H:77:ARG:O</td>
<td>2.12</td>
<td>0.66</td>
</tr>
<tr>
<td>10:J:53:HIS:HE1</td>
<td>10:J:55:ASP:OD1</td>
<td>1.79</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:128:LEU:HB2</td>
<td>4:B:168:GLY:O</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:179:CYS:SG</td>
<td>4:B:181:LEU:HB2</td>
<td>2.35</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:46:GLN:NE2</td>
<td>4:B:496:ARG:HG2</td>
<td>2.09</td>
<td>0.66</td>
</tr>
<tr>
<td>3:A:925:LEU:O</td>
<td>3:A:927:VAL:N</td>
<td>2.28</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:227:LYS:HB2</td>
<td>4:B:395:GLN:OE1</td>
<td>1.96</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:648:HIS:NE2</td>
<td>4:B:650:GLU:OE1</td>
<td>2.28</td>
<td>0.66</td>
</tr>
<tr>
<td>3:A:601:LYS:HB3</td>
<td>3:A:603:ASN:OD1</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:93:GLY:O</td>
<td>4:B:94:LYS:O</td>
<td>2.13</td>
<td>0.66</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>9:I:119:THR:C</td>
<td>9:I:120:GLN:CG</td>
<td>2.64</td>
<td>0.66</td>
</tr>
<tr>
<td>11:K:53:ASP:OD1</td>
<td>11:K:56:VAL:HG22</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:1060:ARG:C</td>
<td>4:B:1062:HIS:N</td>
<td>2.48</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:1149:GLU:HA</td>
<td>4:B:1153:GLU:OE2</td>
<td>1.96</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:449:ASN:OD1</td>
<td>4:B:451:LYS:HB3</td>
<td>1.96</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:662:MET:O</td>
<td>4:B:665:GLU:N</td>
<td>2.19</td>
<td>0.66</td>
</tr>
<tr>
<td>3:A:70:CYS:C</td>
<td>3:A:71:GLN:HG3</td>
<td>2.15</td>
<td>0.66</td>
</tr>
<tr>
<td>4:B:1106:ARG:NH2</td>
<td>4:B:1109:GLY:C</td>
<td>2.48</td>
<td>0.66</td>
</tr>
<tr>
<td>7:F:101:ILE:CD1</td>
<td>7:F:121:ALA:HB2</td>
<td>2.26</td>
<td>0.66</td>
</tr>
<tr>
<td>10:J:3:VAL:HG21</td>
<td>10:J:18:TRP:CG</td>
<td>2.31</td>
<td>0.66</td>
</tr>
<tr>
<td>3:A:1364:ASN:HD21</td>
<td>3:A:1366:ARG:NH1</td>
<td>1.94</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:44:VAL:O</td>
<td>4:B:45:SER:C</td>
<td>2.33</td>
<td>0.65</td>
</tr>
<tr>
<td>6:E:116:ILE:HG21</td>
<td>6:E:121:MET:HG2</td>
<td>1.78</td>
<td>0.65</td>
</tr>
<tr>
<td>10:J:3:VAL:HG21</td>
<td>10:J:60:PHE:CD2</td>
<td>2.31</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:199:MET:O</td>
<td>4:B:200:GLY:O</td>
<td>2.14</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:295:GLY:HA2</td>
<td>4:B:298:LEU:HG</td>
<td>1.78</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:383:ASN:HD22</td>
<td>4:B:384:ARG:HH11</td>
<td>1.44</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:46:GLN:HG3</td>
<td>4:B:47:GLN:N</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>8:H:102:TYR:N</td>
<td>8:H:102:TYR:CD2</td>
<td>2.64</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:291:ILE:HD12</td>
<td>4:B:291:ILE:N</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>8:H:77:ARG:HH11</td>
<td>8:H:77:ARG:HB2</td>
<td>1.59</td>
<td>0.65</td>
</tr>
<tr>
<td>2:T:8:DT:H2'</td>
<td>2:T:9:DC:H6</td>
<td>1.61</td>
<td>0.65</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:A:399:HIS:CB</td>
<td>3:A:400:PRO:HD3</td>
<td>2.24</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:957:ASN:N</td>
<td>4:B:959:ASP:N</td>
<td>2.29</td>
<td>0.65</td>
</tr>
<tr>
<td>3:A:568:PRO:CB</td>
<td>5:C:221:TYR:CE1</td>
<td>2.79</td>
<td>0.65</td>
</tr>
<tr>
<td>8:H:131:ASN:H</td>
<td>8:H:133:ASN:H</td>
<td>2.00</td>
<td>0.65</td>
</tr>
<tr>
<td>3:A:40:THR:HG22</td>
<td>3:A:41:MET:HE3</td>
<td>1.78</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:1034:VAL:HG12</td>
<td>4:B:1035:ALA:N</td>
<td>2.10</td>
<td>0.65</td>
</tr>
<tr>
<td>6:E:77:SER:HB3</td>
<td>6:E:105:PHE:HD2</td>
<td>1.61</td>
<td>0.65</td>
</tr>
<tr>
<td>6:E:178:ILE:HB</td>
<td>6:E:212:ARG:HD3</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>11:K:22:ASP:HB3</td>
<td>11:K:23:PRO:HD2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>2:T:11:DC:H2'</td>
<td>2:T:12:DG:H8</td>
<td>1.61</td>
<td>0.65</td>
</tr>
<tr>
<td>3:A:1102:LYS:O</td>
<td>3:A:1106:ASN:ND2</td>
<td>2.30</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:1203:LEU:HD12</td>
<td>4:B:1203:LEU:C</td>
<td>2.17</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:392:ARG:O</td>
<td>4:B:393:LYS:HE3</td>
<td>1.97</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:428:ILE:C</td>
<td>4:B:430:ARG:H</td>
<td>1.99</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:471:LYS:O</td>
<td>4:B:472:ALA:C</td>
<td>2.35</td>
<td>0.65</td>
</tr>
<tr>
<td>8:H:89:LEU:HB2</td>
<td>8:H:91:ASP:CG</td>
<td>2.17</td>
<td>0.65</td>
</tr>
<tr>
<td>8:H:93:TYR:CE2</td>
<td>8:H:145:ARG:HD3</td>
<td>2.31</td>
<td>0.65</td>
</tr>
<tr>
<td>3:A:265:LYS:CE</td>
<td>3:A:323:LYS:CG</td>
<td>2.74</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:1072:MET:O</td>
<td>4:B:1081:LEU:HB2</td>
<td>1.96</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:882:THR:OG1</td>
<td>4:B:935:ARG:HG3</td>
<td>1.96</td>
<td>0.65</td>
</tr>
<tr>
<td>5:C:137:LYS:HG2</td>
<td>5:C:138:GLU:N</td>
<td>2.11</td>
<td>0.65</td>
</tr>
<tr>
<td>11:K:12:LEU:H</td>
<td>11:K:12:LEU:CD1</td>
<td>2.09</td>
<td>0.65</td>
</tr>
<tr>
<td>3:A:1154:TYR:HB2</td>
<td>3:A:1191:TRP:CE2</td>
<td>2.32</td>
<td>0.65</td>
</tr>
<tr>
<td>3:A:76:GLU:OE1</td>
<td>4:B:1159:ARG:NH1</td>
<td>2.28</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:352:ALA:O</td>
<td>4:B:356:LEU:HG</td>
<td>1.97</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:637:LEU:HA</td>
<td>4:B:743:ILE:HD11</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:778:MET:CE</td>
<td>4:B:853:SER:CB</td>
<td>2.74</td>
<td>0.65</td>
</tr>
<tr>
<td>5:C:74:SER:HA</td>
<td>5:C:77:ILE:HG12</td>
<td>1.77</td>
<td>0.65</td>
</tr>
<tr>
<td>6:E:102:GLU:O</td>
<td>6:E:104:ASN:N</td>
<td>2.30</td>
<td>0.65</td>
</tr>
<tr>
<td>3:A:475:THR:CG2</td>
<td>3:A:476:SER:N</td>
<td>2.60</td>
<td>0.65</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>3:A:505:CYS:SG</td>
<td>4:B:1141:HIS:HD2</td>
<td>2.20</td>
<td>0.65</td>
</tr>
<tr>
<td>3:A:51:GLY:HA2</td>
<td>3:A:56:PRO:HG2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:1006:ILE:HG2</td>
<td>4:B:1087:PHE:HE2</td>
<td>1.61</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:638:PHE:CE1</td>
<td>4:B:743:ILE:HA</td>
<td>2.31</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:94:LYS:HD3</td>
<td>4:B:95:ILE:O</td>
<td>1.96</td>
<td>0.65</td>
</tr>
<tr>
<td>4:B:815:ARG:HH11</td>
<td>4:B:815:ARG:CG</td>
<td>2.09</td>
<td>0.65</td>
</tr>
<tr>
<td>8:H:3:ASN:OD1</td>
<td>8:H:4:THR:N</td>
<td>2.30</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:1194:ARG:CG</td>
<td>3:A:1237:ILE:HE13</td>
<td>2.27</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:556:THR:HG22</td>
<td>4:B:557:PHE:H</td>
<td>1.58</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:556:THR:CG2</td>
<td>4:B:557:PHE:N</td>
<td>2.59</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:62:ILE:CD1</td>
<td>4:B:418:LYS:HE2</td>
<td>2.26</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:1134:ILE:HA</td>
<td>3:A:1137:ALA:HB3</td>
<td>1.80</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:51:GLY:HA2</td>
<td>3:A:56:PRO:CG</td>
<td>2.28</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:211:VAL:O</td>
<td>4:B:480:SER:HA</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:361:LEU:N</td>
<td>4:B:362:PRO:CD</td>
<td>2.60</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:435:THR:O</td>
<td>4:B:437:GLU:N</td>
<td>2.29</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:475:SER:C</td>
<td>4:B:477:ALA:H</td>
<td>2.01</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:589:VAL:HG12</td>
<td>4:B:590:HIS:N</td>
<td>2.11</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:827:ILE:O</td>
<td>4:B:828:ALA:HB2</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:871:ASP:HB3</td>
<td>6:E:204:THR:HG23</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>8:H:3:ASN:CG</td>
<td>8:H:4:THR:N</td>
<td>2.50</td>
<td>0.64</td>
</tr>
<tr>
<td>5:C:57:VAL:HG21</td>
<td>10:J:57:ILE:HD11</td>
<td>1.78</td>
<td>0.64</td>
</tr>
<tr>
<td>2:T:4:DA:H2&quot;</td>
<td>2:T:5:DT:C6</td>
<td>2.31</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:834:THR:HB</td>
<td>3:A:1077:THR:HG23</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:1229:SER:HB3</td>
<td>3:A:1233:ASP:OD2</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:419:LYS:HG3</td>
<td>3:A:420:ARG:HG3</td>
<td>1.77</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:980:ASP:O</td>
<td>3:A:980:ASP:OD2</td>
<td>2.15</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:976:ILE:HD11</td>
<td>4:B:992:ILE:HD12</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>5:C:114:TYR:CD2</td>
<td>5:C:140:ASN:CB</td>
<td>2.80</td>
<td>0.64</td>
</tr>
<tr>
<td>12:L:53:HIS:O</td>
<td>12:L:55:ILE:N</td>
<td>2.30</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:1224:LEU:HD11</td>
<td>3:A:1240:CYS:HB3</td>
<td>1.78</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:528:LEU:O</td>
<td>3:A:530:GLY:N</td>
<td>2.31</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:528:LEU:CA</td>
<td>3:A:531:ILE:HG22</td>
<td>2.24</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:567:LYS:CB</td>
<td>3:A:568:PRO:CD</td>
<td>2.69</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:541:ILE:CD1</td>
<td>3:A:574:GLY:HA2</td>
<td>2.28</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:114:PRO:HG3</td>
<td>4:B:181:LEU:HD11</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:913:GLY:HA2</td>
<td>4:B:938:SER:HB3</td>
<td>1.78</td>
<td>0.64</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:R:8:G:O3’</td>
<td>4:B:776:GLN:NE2</td>
<td>2.31</td>
<td>0.64</td>
</tr>
<tr>
<td>2:T:13:DA:H2’</td>
<td>2:T:14:DT:C5’</td>
<td>2.27</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:209:ASN:O</td>
<td>3:A:212:LYS:N</td>
<td>2.31</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:870:GLU:CB</td>
<td>6:E:204:THR:HG21</td>
<td>2.27</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:1115:THR:HG22</td>
<td>4:B:1117:GLN:HG3</td>
<td>1.80</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:773:MET:O</td>
<td>4:B:776:GLN:N</td>
<td>2.31</td>
<td>0.64</td>
</tr>
<tr>
<td>11:K:27:ALA:HB1</td>
<td>11:K:28:PRO:HD3</td>
<td>1.78</td>
<td>0.64</td>
</tr>
<tr>
<td>9:I:15:TYR:CD1</td>
<td>9:I:15:TYR:N</td>
<td>2.65</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:913:LEU:CD1</td>
<td>3:A:914:GLU:N</td>
<td>2.39</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:1006:ILE:CG2</td>
<td>4:B:1007:VAL:N</td>
<td>2.61</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:1184:GLY:O</td>
<td>4:B:1185:CYS:C</td>
<td>2.36</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:431:TYR:CD1</td>
<td>4:B:447:ALA:HB2</td>
<td>2.32</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:550:ASP:OD1</td>
<td>4:B:551:PRO:CD</td>
<td>2.45</td>
<td>0.64</td>
</tr>
<tr>
<td>5:C:184:ASN:O</td>
<td>5:C:187:LYS:N</td>
<td>2.28</td>
<td>0.64</td>
</tr>
<tr>
<td>8:H:59:ILE:O</td>
<td>8:H:60:ALA:HB3</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:617:ARG:NE</td>
<td>4:B:619:ILE:HD13</td>
<td>2.13</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:701:ILE:HG12</td>
<td>4:B:702:LEU:N</td>
<td>2.11</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:846:ILE:HG23</td>
<td>4:B:974:PRO:CG</td>
<td>2.22</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:93:GLY:O</td>
<td>4:B:94:LYS:C</td>
<td>2.36</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:984:HIS:ND1</td>
<td>4:B:984:HIS:N</td>
<td>2.45</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:995:ARG:HB3</td>
<td>4:B:997:GLU:OE2</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>5:C:93:ASP:OD1</td>
<td>5:C:122:SER:HB2</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>5:C:39:ALA:CA</td>
<td>5:C:164:ALA:HB3</td>
<td>2.27</td>
<td>0.64</td>
</tr>
<tr>
<td>10:J:32:GLU:CD</td>
<td>10:J:32:GLU:H</td>
<td>2.01</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:1141:THR:HG21</td>
<td>3:A:1205:LYS:HD2</td>
<td>1.78</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:1308:THR:HG22</td>
<td>3:A:1310:GLY:H</td>
<td>1.61</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:1331:SER:OG</td>
<td>3:A:1333:ILE:HG22</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:893:PHE:CD2</td>
<td>3:A:893:PHE:C</td>
<td>2.70</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:1084:GLN:NE2</td>
<td>5:C:192:TRP:N</td>
<td>2.45</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:485:ARG:HH11</td>
<td>4:B:485:ARG:HG3</td>
<td>1.62</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:60:GLN:OE1</td>
<td>4:B:94:LYS:HA</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>5:C:41:ILE:HD11</td>
<td>5:C:172:PRO:HG3</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>6:E:162:ARG:NH2</td>
<td>6:E:166:LYS:HZ3</td>
<td>1.94</td>
<td>0.64</td>
</tr>
<tr>
<td>3:A:380:VAL:CG2</td>
<td>3:A:430:TRP:O</td>
<td>2.45</td>
<td>0.64</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:A:780:VAL:HG23</td>
<td>4:B:699:GLU:OE1</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:230:ALA:HB3</td>
<td>4:B:231:PRO:CD</td>
<td>2.25</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:616:ILE:HD12</td>
<td>4:B:616:ILE:N</td>
<td>2.12</td>
<td>0.64</td>
</tr>
<tr>
<td>6:E:102:GLU:C</td>
<td>6:E:104:ASN:H</td>
<td>2.02</td>
<td>0.64</td>
</tr>
<tr>
<td>6:E:211:TYR:CD1</td>
<td>6:E:211:TYR:N</td>
<td>2.65</td>
<td>0.64</td>
</tr>
<tr>
<td>9:I:55:THR:HG23</td>
<td>9:I:58:VAL:HG23</td>
<td>1.78</td>
<td>0.64</td>
</tr>
<tr>
<td>11:K:7:PHE:C</td>
<td>11:K:9:LEU:H</td>
<td>2.01</td>
<td>0.64</td>
</tr>
<tr>
<td>4:B:1103:ILE:H</td>
<td>4:B:1103:ILE:CD1</td>
<td>1.93</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:355:ILE:C</td>
<td>4:B:356:LEU:HD23</td>
<td>2.18</td>
<td>0.63</td>
</tr>
<tr>
<td>8:H:12:VAL:HA</td>
<td>8:H:28:ALA:CB</td>
<td>2.29</td>
<td>0.63</td>
</tr>
<tr>
<td>3:A:8:SER:HG</td>
<td>4:B:1180:PHE:HE1</td>
<td>1.46</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:628:THR:HG22</td>
<td>4:B:628:THR:O</td>
<td>1.97</td>
<td>0.63</td>
</tr>
<tr>
<td>8:H:84:ALA:C</td>
<td>8:H:86:ASP:N</td>
<td>2.48</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:256:VAL:O</td>
<td>4:B:385:LEU:HD13</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>3:A:1097:GLY:C</td>
<td>3:A:1099:PRO:HD2</td>
<td>2.18</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:640:VAL:O</td>
<td>4:B:641:GLU:C</td>
<td>2.37</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:957:ASN:ND2</td>
<td>4:B:958:GLN:N</td>
<td>2.45</td>
<td>0.63</td>
</tr>
<tr>
<td>5:C:74:SER:O</td>
<td>5:C:77:ILE:HB</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>8:H:31:THR:O</td>
<td>8:H:32:THR:CB</td>
<td>2.45</td>
<td>0.63</td>
</tr>
<tr>
<td>2:T:11:DC:H2'</td>
<td>2:T:12:DG:H5'</td>
<td>1.80</td>
<td>0.63</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>4:B:644:GLU:HG3</td>
<td>4:B:654:ARG:HH22</td>
<td>1.64</td>
<td>0.63</td>
</tr>
<tr>
<td>8:H:58:THR:HG22</td>
<td>8:H:59:ILE:N</td>
<td>2.13</td>
<td>0.63</td>
</tr>
<tr>
<td>3:A:785:PRO:HG3</td>
<td>4:B:698:GLU:HG2</td>
<td>1.81</td>
<td>0.63</td>
</tr>
<tr>
<td>3:A:666:ILE:CD1</td>
<td>4:B:1030:LEU:HD13</td>
<td>2.27</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:1096:ARG:O</td>
<td>4:B:1097:HIS:HB2</td>
<td>1.99</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:219:ALA:HB3</td>
<td>4:B:222:ILE:HD11</td>
<td>1.81</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:34:ILE:HD12</td>
<td>4:B:542:MET:HE1</td>
<td>1.80</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:843:GLN:HA</td>
<td>4:B:846:ILE:CD1</td>
<td>2.28</td>
<td>0.63</td>
</tr>
<tr>
<td>5:C:77:ILE:HD13</td>
<td>5:C:129:ILE:HD11</td>
<td>1.80</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:52:ASN:O</td>
<td>4:B:56:ASP:HB2</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:575:PRO:C</td>
<td>4:B:577:ALA:H</td>
<td>2.02</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:585:VAL:HG12</td>
<td>4:B:587:HL:CD2</td>
<td>2.33</td>
<td>0.63</td>
</tr>
<tr>
<td>8:H:126:GLU:C</td>
<td>8:H:130:ARG:NH1</td>
<td>2.52</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:377:PHE:O</td>
<td>4:B:380:TYR:N</td>
<td>2.31</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:546:SER:HA</td>
<td>4:B:612:GLU:OE2</td>
<td>1.99</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:597:MET:O</td>
<td>4:B:600:LEU:N</td>
<td>2.32</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:900:ALA:O</td>
<td>4:B:903:VAL:HG23</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>5:C:148:ARG:H</td>
<td>5:C:151:GLN:HG3</td>
<td>1.64</td>
<td>0.63</td>
</tr>
<tr>
<td>4:B:519:TRP:C</td>
<td>4:B:519:TRP:CD1</td>
<td>2.72</td>
<td>0.63</td>
</tr>
<tr>
<td>5:C:43:THR:CG2</td>
<td>5:C:44:LEU:N</td>
<td>2.61</td>
<td>0.63</td>
</tr>
<tr>
<td>11:K:10:PHE:CD1</td>
<td>11:K:11:LEU:HD13</td>
<td>2.34</td>
<td>0.63</td>
</tr>
<tr>
<td>11:K:7:PHE:O</td>
<td>11:K:9:LEU:N</td>
<td>2.32</td>
<td>0.63</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>3:A:68:GLN:C</td>
<td>3:A:70:CYS:N</td>
<td>2.50</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:34:ILE:HD13</td>
<td>4:B:34:ILE:N</td>
<td>2.14</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:485:ARG:HH11</td>
<td>4:B:485:ARG:CG</td>
<td>2.11</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:634:TYR:O</td>
<td>4:B:635:ARG:HB3</td>
<td>1.99</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:641:GLU:C</td>
<td>4:B:643:ASP:H</td>
<td>2.01</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:637:LEU:HD13</td>
<td>4:B:740:HIS:HB2</td>
<td>1.81</td>
<td>0.62</td>
</tr>
<tr>
<td>3:A:265:LYS:CE</td>
<td>3:A:323:LYS:HG3</td>
<td>2.27</td>
<td>0.62</td>
</tr>
<tr>
<td>3:A:914:GLU:C</td>
<td>3:A:916:GLY:H</td>
<td>2.02</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:1059:LEU:HD22</td>
<td>4:B:1064:TYR:HB2</td>
<td>1.81</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:1192:TYR:CE2</td>
<td>4:B:1218:THR:CG2</td>
<td>2.34</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:329:THR:HG22</td>
<td>4:B:332:ASP:OD2</td>
<td>1.99</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:227:LYS:CB</td>
<td>4:B:395:GLN:OE1</td>
<td>2.47</td>
<td>0.62</td>
</tr>
<tr>
<td>6:E:7:ARG:C</td>
<td>6:E:9:ILE:N</td>
<td>2.50</td>
<td>0.62</td>
</tr>
<tr>
<td>5:C:262:LEU:HD21</td>
<td>11:K:19:LEU:HD12</td>
<td>1.81</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:35:SER:O</td>
<td>4:B:37:PHE:O</td>
<td>2.18</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:471:LYS:CG</td>
<td>4:B:472:ALA:N</td>
<td>2.49</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:492:LEU:HB3</td>
<td>4:B:751:VAL:HG21</td>
<td>1.79</td>
<td>0.62</td>
</tr>
<tr>
<td>5:C:134:ILE:CD1</td>
<td>5:C:141:GLY:CA</td>
<td>2.70</td>
<td>0.62</td>
</tr>
<tr>
<td>7:F:123:LYS:O</td>
<td>7:F:123:LYS:HG2</td>
<td>1.98</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:102:VAL:CG2</td>
<td>4:B:112:LEU:HB2</td>
<td>2.29</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:129:PHE:HE2</td>
<td>4:B:166:PHE:HB3</td>
<td>1.63</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:788:ARG:NH1</td>
<td>4:B:790:ASP:OD1</td>
<td>2.24</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:957:ASN:ND2</td>
<td>4:B:958:GLN:HB2</td>
<td>2.14</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:1084:GLN:HE22</td>
<td>5:C:191:TYR:C</td>
<td>2.03</td>
<td>0.62</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:I:7:CYS:C</td>
<td>9:I:8:ARG:O</td>
<td>2.34</td>
<td>0.62</td>
</tr>
<tr>
<td>2:T:11:DC:H2'</td>
<td>2:T:12:DG:C8</td>
<td>2.35</td>
<td>0.62</td>
</tr>
<tr>
<td>3:A:1336:MET:HE3</td>
<td>3:A:1381:LEU:HG</td>
<td>1.82</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:435:THR:O</td>
<td>4:B:436:VAL:HG23</td>
<td>2.00</td>
<td>0.62</td>
</tr>
<tr>
<td>11:K:51:LEU:HD12</td>
<td>11:K:59:ALA:HB3</td>
<td>1.79</td>
<td>0.62</td>
</tr>
<tr>
<td>12:L:58:LYS:O</td>
<td>12:L:59:ALA:CB</td>
<td>2.47</td>
<td>0.62</td>
</tr>
<tr>
<td>2:T:8:DT:H2&quot;</td>
<td>2:T:9:DC:O5'</td>
<td>1.98</td>
<td>0.62</td>
</tr>
<tr>
<td>3:A:7:SER:HB2</td>
<td>4:B:1193:GLN:NE2</td>
<td>2.11</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:1033:LYS:HB2</td>
<td>4:B:1089:PRO:HD2</td>
<td>1.81</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:1184:GLY:O</td>
<td>4:B:1186:ASP:OD2</td>
<td>2.17</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:25:ILE:HG22</td>
<td>4:B:26:THR:H</td>
<td>1.64</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:333:PHE:O</td>
<td>4:B:333:PHE:CD1</td>
<td>2.52</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:449:ASN:OD1</td>
<td>4:B:451:LYS:HD2</td>
<td>1.99</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:563:MET:HE2</td>
<td>4:B:588:GLY:HA3</td>
<td>1.82</td>
<td>0.62</td>
</tr>
<tr>
<td>6:E:211:TYR:HD1</td>
<td>6:E:211:TYR:N</td>
<td>1.97</td>
<td>0.62</td>
</tr>
<tr>
<td>2:T:4:DA:H2'</td>
<td>2:T:5:DT:C7</td>
<td>2.29</td>
<td>0.62</td>
</tr>
<tr>
<td>3:A:567:LYS:HD3</td>
<td>8:H:95:TYR:CG</td>
<td>2.34</td>
<td>0.62</td>
</tr>
<tr>
<td>3:A:89:PRO:O</td>
<td>3:A:204:THR:CG2</td>
<td>2.38</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:739:THR:HG1</td>
<td>4:B:740:HIS:CE1</td>
<td>2.18</td>
<td>0.62</td>
</tr>
<tr>
<td>9:I:103:CYS:SG</td>
<td>9:I:104:LEU:N</td>
<td>2.73</td>
<td>0.62</td>
</tr>
<tr>
<td>9:I:10:CYT:CB</td>
<td>9:I:31:THR:CG2</td>
<td>2.70</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:1196:ILE:HB</td>
<td>4:B:1197:PRO:CD</td>
<td>2.29</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:118:ARG:HH22</td>
<td>4:B:194:GLU:CD</td>
<td>2.03</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:773:MET:O</td>
<td>4:B:775:LYS:N</td>
<td>2.33</td>
<td>0.62</td>
</tr>
<tr>
<td>6:E:118:PRO:O</td>
<td>6:E:122:LYS:HD2</td>
<td>1.99</td>
<td>0.62</td>
</tr>
<tr>
<td>7:F:81:THR:OG1</td>
<td>7:F:144:GLU:OE1</td>
<td>2.18</td>
<td>0.62</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:A:587:HIS:CE1</td>
<td>3:A:969:GLN:HG2</td>
<td>2.35</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:1191:ILE:HG23</td>
<td>4:B:1192:TYR:N</td>
<td>2.15</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:291:ILE:HG22</td>
<td>4:B:297:ILE:CD1</td>
<td>2.29</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:313:MET:CG</td>
<td>4:B:390:LEU:HD21</td>
<td>2.28</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:638:PHE:CD2</td>
<td>4:B:653:VAL:HG21</td>
<td>2.35</td>
<td>0.62</td>
</tr>
<tr>
<td>5:C:136:ASP:OD2</td>
<td>5:C:140:ASN:O</td>
<td>2.18</td>
<td>0.62</td>
</tr>
<tr>
<td>8:H:2:SER:O</td>
<td>8:H:3:ASN:HB2</td>
<td>1.99</td>
<td>0.62</td>
</tr>
<tr>
<td>8:H:42:ILE:HD12</td>
<td>8:H:95:TYR:CE2</td>
<td>2.35</td>
<td>0.62</td>
</tr>
<tr>
<td>4:B:1056:SER:HB3</td>
<td>4:B:1066:SER:O</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:166:PHE:HD2</td>
<td>4:B:166:PHE:C</td>
<td>2.03</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:320:ARG:NH2</td>
<td>4:B:471:LYS:HB3</td>
<td>2.06</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:653:VAL:HG22</td>
<td>4:B:689:LEU:HB3</td>
<td>1.82</td>
<td>0.61</td>
</tr>
<tr>
<td>6:E:89:GLY:HA3</td>
<td>6:E:117:THR:OG1</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:134:ARG:O</td>
<td>3:A:137:ALA:HB3</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:314:LEU:C</td>
<td>4:B:936:LEU:CD1</td>
<td>2.11</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:36:ALA:O</td>
<td>4:B:37:PHE:O</td>
<td>2.17</td>
<td>0.61</td>
</tr>
<tr>
<td>8:H:101:ALA:HB2</td>
<td>8:H:116:TYR:CE2</td>
<td>2.35</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:203:PHE:HE1</td>
<td>4:B:212:LEU:HD12</td>
<td>1.65</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:258:LEU:HD13</td>
<td>4:B:269:ILE:HG12</td>
<td>1.82</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:638:PHE:O</td>
<td>4:B:740:HIS:CB</td>
<td>2.48</td>
<td>0.61</td>
</tr>
<tr>
<td>5:C:80:LEU:CD1</td>
<td>5:C:95:CYS:HA</td>
<td>2.30</td>
<td>0.61</td>
</tr>
<tr>
<td>8:H:79:TRP:C</td>
<td>8:H:80:ARG:O</td>
<td>2.32</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:102:VAL:HD2</td>
<td>4:B:112:LEU:HD22</td>
<td>1.82</td>
<td>0.61</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:195:CYS:CB</td>
<td>4:B:782:LEU:HD22</td>
<td>2.30</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:420:LEU:O</td>
<td>4:B:423:LYS:N</td>
<td>2.34</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:778:MET:HE3</td>
<td>4:B:853:SER:CB</td>
<td>2.30</td>
<td>0.61</td>
</tr>
<tr>
<td>10:J:3:VAL:HA</td>
<td>10:J:53:HIS:CG</td>
<td>2.35</td>
<td>0.61</td>
</tr>
<tr>
<td>10:J:57:ILE:HA</td>
<td>10:J:60:PHE:HD2</td>
<td>1.66</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:645:LEU:O</td>
<td>3:A:645:LEU:HD12</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:326:ASP:OD1</td>
<td>4:B:329:THR:OG1</td>
<td>2.18</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:449:ASN:O</td>
<td>4:B:450:ALA:C</td>
<td>2.39</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:986:GLN:CA</td>
<td>4:B:986:GLN:OE1</td>
<td>2.46</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:681:TRP:O</td>
<td>4:B:684:LEU:HB2</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>6:E:113:GLN:CA</td>
<td>6:E:137:GLU:HG3</td>
<td>2.28</td>
<td>0.61</td>
</tr>
<tr>
<td>6:E:2:ASP:O</td>
<td>6:E:3:GLN:HB3</td>
<td>1.99</td>
<td>0.61</td>
</tr>
<tr>
<td>8:H:112:ILE:O</td>
<td>8:H:126:GLU:HA</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:100:LYS:NZ</td>
<td>3:A:100:LYS:HB3</td>
<td>2.15</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:1096:ARG:NH1</td>
<td>4:B:1096:ARG:HG2</td>
<td>2.16</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:248:SER:O</td>
<td>4:B:249:ARG:HB2</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:40:GLU:OE1</td>
<td>4:B:682:SER:HB2</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>6:E:114:ASN:O</td>
<td>6:E:115:ASN:HB3</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>6:E:7:ARG:O</td>
<td>6:E:9:ILE:N</td>
<td>2.34</td>
<td>0.61</td>
</tr>
<tr>
<td>8:H:101:ALA:HB2</td>
<td>8:H:116:TYR:CD2</td>
<td>2.35</td>
<td>0.61</td>
</tr>
<tr>
<td>8:H:47:PHE:HD2</td>
<td>8:H:95:TYR:CD1</td>
<td>2.19</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:1345:ARG:HD2</td>
<td>3:A:1373:ASP:OD1</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:255:SER:CB</td>
<td>4:B:918:ILE:HG23</td>
<td>2.30</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:68:GLN:NE2</td>
<td>3:A:70:CYS:HB3</td>
<td>2.16</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:427:ASP:O</td>
<td>4:B:430:ARG:HB2</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:869:SER:O</td>
<td>4:B:870:ILE:HG13</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:254:GLU:O</td>
<td>4:B:918:ILE:HG13</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>8:H:142:LEU:HD12</td>
<td>8:H:143:LEU:H</td>
<td>1.64</td>
<td>0.61</td>
</tr>
<tr>
<td>8:H:26:ILE:O</td>
<td>8:H:39:THR:HA</td>
<td>1.99</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:1209:MET:HB2</td>
<td>3:A:1231:ASP:OD2</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:1339:LEU:CD1</td>
<td>6:E:147:HIS:CD2</td>
<td>2.84</td>
<td>0.61</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>4:B:431:TYR:CD1</td>
<td>4:B:447:ALA:CB</td>
<td>2.83</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:797:TYR:C</td>
<td>4:B:799:PRO:HD2</td>
<td>2.20</td>
<td>0.61</td>
</tr>
<tr>
<td>5:C:63:ILE:O</td>
<td>5:C:64:ALA:C</td>
<td>2.39</td>
<td>0.61</td>
</tr>
<tr>
<td>6:E:178:ILE:CD1</td>
<td>6:E:185:ALA:HB2</td>
<td>2.31</td>
<td>0.61</td>
</tr>
<tr>
<td>7:F:111:LEU:N</td>
<td>7:F:111:LEU:CD1</td>
<td>2.64</td>
<td>0.61</td>
</tr>
<tr>
<td>7:F:127:GLU:O</td>
<td>7:F:129:LYS:N</td>
<td>2.33</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:337:ARG:NH1</td>
<td>3:A:839:ARG:NH1</td>
<td>2.48</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:744:LYS:HG2</td>
<td>3:A:748:MET:HE2</td>
<td>1.83</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:901:LEU:N</td>
<td>3:A:926:GLN:NE2</td>
<td>2.48</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:233:PRO:HG2</td>
<td>4:B:234:ILE:HD13</td>
<td>1.82</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:248:SER:HG</td>
<td>4:B:250:PHE:HD2</td>
<td>1.48</td>
<td>0.61</td>
</tr>
<tr>
<td>4:B:977:GLY:C</td>
<td>4:B:1099:VAL:CG2</td>
<td>2.68</td>
<td>0.61</td>
</tr>
<tr>
<td>6:E:58:MET:O</td>
<td>6:E:60:PHE:N</td>
<td>2.34</td>
<td>0.61</td>
</tr>
<tr>
<td>7:F:89:GLU:O</td>
<td>7:F:93:ILE:HD13</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>8:H:76:THR:HG22</td>
<td>8:H:76:THR:O</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>12:L:45:ALA:O</td>
<td>12:L:46:VAL:CG2</td>
<td>2.49</td>
<td>0.61</td>
</tr>
<tr>
<td>3:A:918:GLU:O</td>
<td>3:A:919:ILE:HD13</td>
<td>2.00</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:964:ILE:CD1</td>
<td>3:A:1037:LEU:HD21</td>
<td>2.31</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:1065:GLN:NE2</td>
<td>4:B:1067:ARG:H</td>
<td>1.98</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:604:ARG:NB2</td>
<td>4:B:614:SER:HA</td>
<td>2.15</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:1017:LEU:HB2</td>
<td>6:E:205:SER:CA</td>
<td>2.30</td>
<td>0.60</td>
</tr>
<tr>
<td>9:1:7:CYS:CB</td>
<td>9:1:14:LEU:HD21</td>
<td>2.31</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:1386:ARG:HA</td>
<td>3:A:1390:ASN:HB2</td>
<td>1.82</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:92:HIS:HB2</td>
<td>3:A:236:LEU:HD11</td>
<td>1.82</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:714:PHE:O</td>
<td>3:A:718:VAL:HG23</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:704:ALA:HB3</td>
<td>4:B:741:CYS:HB2</td>
<td>1.82</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:797:TYR:HB3</td>
<td>4:B:798:TYR:HD1</td>
<td>1.63</td>
<td>0.60</td>
</tr>
<tr>
<td>8:H:25:ARG:O</td>
<td>8:H:26:ILE:HD12</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>10:J:8:PHE:H</td>
<td>10:J:49:MET:CE</td>
<td>2.14</td>
<td>0.60</td>
</tr>
<tr>
<td>5:C:69:LEU:O</td>
<td>10:J:6:ARG:NH1</td>
<td>2.34</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:1052:GLN:C</td>
<td>3:A:1053:PHE:O</td>
<td>2.35</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:185:TRP:O</td>
<td>3:A:186:LYS:CB</td>
<td>2.48</td>
<td>0.60</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>4:B:1017:ILE:HB</td>
<td>4:B:1018:PRO:HD3</td>
<td>1.83</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:22:SER:O</td>
<td>4:B:23:ALA:O</td>
<td>2.19</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:273:LEU:HB2</td>
<td>4:B:276:ILE:CD1</td>
<td>2.30</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:322:PHE:CE2</td>
<td>9:I:30:ILE:CD2</td>
<td>2.36</td>
<td>0.60</td>
</tr>
<tr>
<td>5:C:5:GLY:O</td>
<td>5:C:7:GLN:CG</td>
<td>2.48</td>
<td>0.60</td>
</tr>
<tr>
<td>6:E:173:SER:O</td>
<td>6:E:175:LEU:N</td>
<td>2.34</td>
<td>0.60</td>
</tr>
<tr>
<td>7:F:128:LYS:NZ</td>
<td>7:F:149:GLU:O</td>
<td>2.29</td>
<td>0.60</td>
</tr>
<tr>
<td>5:C:167:HIS:CE1</td>
<td>12:L:70:ARG:HA</td>
<td>2.37</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:1051:ALA:O</td>
<td>3:A:1054:LEU:HB2</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:898:ARG:HA</td>
<td>3:A:933:TYR:HD1</td>
<td>1.64</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:701:ILE:CB</td>
<td>4:B:740:HIS:CE1</td>
<td>2.74</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:992:ILE:HD1</td>
<td>11:K:67:PHE:HE2</td>
<td>1.65</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:994:TYR:HB2</td>
<td>4:B:999:MET:HE1</td>
<td>1.83</td>
<td>0.60</td>
</tr>
<tr>
<td>6:E:135:PHE:HB3</td>
<td>6:E:140:LEU:CD1</td>
<td>2.24</td>
<td>0.60</td>
</tr>
<tr>
<td>6:E:162:ARG:HH2</td>
<td>6:E:166:LYS:NZ</td>
<td>1.92</td>
<td>0.60</td>
</tr>
<tr>
<td>6:E:36:GLU:O</td>
<td>6:E:38:PRO:HD3</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>8:H:49:VAL:CG1</td>
<td>8:H:50:ALA:N</td>
<td>2.64</td>
<td>0.60</td>
</tr>
<tr>
<td>8:H:96:VAL:HG22</td>
<td>8:H:143:LEU:HA</td>
<td>1.83</td>
<td>0.60</td>
</tr>
<tr>
<td>9:I:52:ILE:HG13</td>
<td>9:I:52:ILE:O</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>5:C:116:LYS:HB2</td>
<td>5:C:140:ASN:HA</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>6:E:178:ILE:CG1</td>
<td>6:E:179:GLN:N</td>
<td>2.64</td>
<td>0.60</td>
</tr>
<tr>
<td>8:H:15:VAL:CG1</td>
<td>8:H:15:VAL:O</td>
<td>2.49</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:1107:VAL:HG11</td>
<td>3:A:1381:LEU:HB3</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:1349:TYR:HB2</td>
<td>3:A:1372:VAL:HG21</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:527:THR:O</td>
<td>3:A:531:ILE:N</td>
<td>2.35</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:608:ILE:O</td>
<td>3:A:611:GLN:HB2</td>
<td>2.02</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:1067:ARG:O</td>
<td>4:B:1086:PHE:HE1</td>
<td>1.83</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:293:PRO:O</td>
<td>4:B:295:GLY:N</td>
<td>2.33</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:461:LEU:CD1</td>
<td>4:B:466:TRP:CH2</td>
<td>2.85</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:593:PRO:HG2</td>
<td>4:B:617:ARG:NH1</td>
<td>2.16</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:976:ILE:HG22</td>
<td>4:B:977:GLY:N</td>
<td>2.16</td>
<td>0.60</td>
</tr>
<tr>
<td>5:C:22:LEU:CD2</td>
<td>5:C:25:VAL:CG2</td>
<td>2.70</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:1293:SER:OG</td>
<td>3:A:1295:THR:HG23</td>
<td>2.01</td>
<td>0.60</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>3:A:596:THR:O</td>
<td>3:A:598:LEU:N</td>
<td>2.35</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:461:LEU:HD12</td>
<td>4:B:466:TRP:CZ3</td>
<td>2.35</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:806:THR:H</td>
<td>4:B:809:MET:HE3</td>
<td>1.65</td>
<td>0.60</td>
</tr>
<tr>
<td>11:K:49:GLU:CB</td>
<td>11:K:94:ILE:HD11</td>
<td>2.31</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:1120:LEU:CD2</td>
<td>3:A:1125:ALA:O</td>
<td>2.49</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:419:LYS:NZ</td>
<td>3:A:419:LYS:HB3</td>
<td>2.16</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:802:PRO:HB3</td>
<td>4:B:1091:TYR:CD1</td>
<td>2.36</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:174:LEU:HD12</td>
<td>4:B:179:CYS:HG</td>
<td>1.66</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:723:VAL:O</td>
<td>4:B:725:PRO:N</td>
<td>2.35</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:863:GLU:OE2</td>
<td>4:B:873:THR:HA</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>5:C:145:CYS:SG</td>
<td>5:C:146:LYS:N</td>
<td>2.74</td>
<td>0.60</td>
</tr>
<tr>
<td>5:C:29:MET:HB2</td>
<td>11:K:45:LEU:HD11</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:304:MET:HG3</td>
<td>4:B:1210:MET:HG3</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:64:CYS:O</td>
<td>4:B:65:GLU:CB</td>
<td>2.48</td>
<td>0.60</td>
</tr>
<tr>
<td>5:C:123:ASN:ND2</td>
<td>5:C:125:MET:HG2</td>
<td>2.17</td>
<td>0.60</td>
</tr>
<tr>
<td>5:C:244:VAL:HG21</td>
<td>11:K:105:PHE:CZ</td>
<td>2.36</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:13:THR:HB</td>
<td>3:A:15:LYS:HZ1</td>
<td>1.65</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:381:THR:O</td>
<td>3:A:384:ASN:N</td>
<td>2.34</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:40:THR:HG21</td>
<td>3:A:259:GLU:OE2</td>
<td>2.02</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:809:THR:HB</td>
<td>3:A:810:PRO:CD</td>
<td>2.31</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:921:GLY:O</td>
<td>3:A:922:ASP:O</td>
<td>2.18</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:1170:THR:CG2</td>
<td>4:B:1183:LYS:NZ</td>
<td>2.64</td>
<td>0.60</td>
</tr>
<tr>
<td>4:B:293:PRO:HG2</td>
<td>4:B:296:GLU:CB</td>
<td>2.31</td>
<td>0.60</td>
</tr>
<tr>
<td>6:E:78:LEU:HD12</td>
<td>6:E:107:THR:HG21</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:1339:LEU:CD1</td>
<td>6:E:147:HIS:HD2</td>
<td>2.14</td>
<td>0.60</td>
</tr>
<tr>
<td>6:E:61:GLN:CG</td>
<td>6:E:62:ALA:N</td>
<td>2.64</td>
<td>0.60</td>
</tr>
<tr>
<td>11:K:47:ARG:NH1</td>
<td>11:K:47:ARG:HB3</td>
<td>2.17</td>
<td>0.60</td>
</tr>
<tr>
<td>3:A:304:MET:CG</td>
<td>4:B:1210:MET:HG3</td>
<td>2.31</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:947:GLY:C</td>
<td>4:B:948:ILE:HG13</td>
<td>2.21</td>
<td>0.59</td>
</tr>
<tr>
<td>7:F:97:ARG:NE</td>
<td>7:F:124:GLU:OE2</td>
<td>2.35</td>
<td>0.59</td>
</tr>
<tr>
<td>8:H:25:ARG:HA</td>
<td>8:H:40:LEU:O</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:325:GLN:NE2</td>
<td>9:I:12:ASN:OD1</td>
<td>2.34</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:1283:VAL:O</td>
<td>3:A:1306:LEU:HA</td>
<td>2.01</td>
<td>0.59</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>3:A:31:SER:CB</td>
<td>3:A:83:HIS:HB3</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:120:LEU:HD13</td>
<td>4:B:120:6:GLU:OE2</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:408:LEU:O</td>
<td>4:B:412:LEU:HD12</td>
<td>2.01</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:801:LYS:H</td>
<td>10:J:52:THR:HG22</td>
<td>1.66</td>
<td>0.59</td>
</tr>
<tr>
<td>10:J:53:HIS:CE1</td>
<td>10:J:55:ASP:OD1</td>
<td>2.54</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:1170:THR:O</td>
<td>4:B:1170:THR:HG22</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:547:VAL:N</td>
<td>4:B:612:GLU:OE2</td>
<td>2.36</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:20:ASP:N</td>
<td>4:B:655:LYS:HZ3</td>
<td>2.00</td>
<td>0.59</td>
</tr>
<tr>
<td>10:J:58:GLU:HA</td>
<td>10:J:61:LEU:HD12</td>
<td>1.84</td>
<td>0.59</td>
</tr>
<tr>
<td>11:K:6:ARG:O</td>
<td>11:K:8:GLU:N</td>
<td>2.36</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:211:PHE:C</td>
<td>3:A:213:HIS:N</td>
<td>2.54</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:331:GLY:O</td>
<td>3:A:332:LYS:HB3</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:91:PHE:N</td>
<td>3:A:297:GLN:HE22</td>
<td>2.00</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:1065:GLN:HE21</td>
<td>4:B:1067:ARG:N</td>
<td>1.98</td>
<td>0.59</td>
</tr>
<tr>
<td>5:C:4:GLU:HG3</td>
<td>5:C:5:GLY:N</td>
<td>2.17</td>
<td>0.59</td>
</tr>
<tr>
<td>7:F:97:ARG:HD3</td>
<td>7:F:100:GLN:OE1</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>8:H:58:THR:HB</td>
<td>8:H:143:LEU:HD12</td>
<td>1.83</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:1120:LEU:O</td>
<td>3:A:1323:ASP:CB</td>
<td>2.50</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:206:GLU:O</td>
<td>3:A:209:ASN:HB2</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:269:ILE:HD11</td>
<td>4:B:386:LEU:HD21</td>
<td>1.85</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:53:GLN:HG3</td>
<td>4:B:53:GLN:O</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>6:E:81:GLU:HB3</td>
<td>6:E:96:GLU:HE1</td>
<td>1.66</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:1441:PHE:HZ</td>
<td>7:F:88:TYR:O</td>
<td>1.84</td>
<td>0.59</td>
</tr>
<tr>
<td>9:I:75:CYS:HB3</td>
<td>9:I:103:CYS:HB2</td>
<td>1.85</td>
<td>0.59</td>
</tr>
<tr>
<td>10:J:16:ASP:OD1</td>
<td>10:J:17:LYS:HG3</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:1120:LEU:O</td>
<td>3:A:1323:ASP:HB3</td>
<td>2.01</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:23:SER:HB2</td>
<td>3:A:25:GLU:HB2</td>
<td>1.84</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:494:SER:O</td>
<td>3:A:498:ARG:HG3</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:49:LYS:NZ</td>
<td>3:A:60:SER:HA</td>
<td>2.18</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:102:VAL:HG23</td>
<td>4:B:112:LEU:HB2</td>
<td>1.84</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:352:ALA:C</td>
<td>4:B:354:ASP:N</td>
<td>2.55</td>
<td>0.59</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>4:B:851:PHE:O</td>
<td>4:B:974:PRO:HD3</td>
<td>2.01</td>
<td>0.59</td>
</tr>
<tr>
<td>5:C:16:ASP:HA</td>
<td>5:C:240:VAL:HG22</td>
<td>1.85</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:300:HIS:CE1</td>
<td>4:B:745:PRO:HD2</td>
<td>2.38</td>
<td>0.59</td>
</tr>
<tr>
<td>5:C:116:LYS:HE2</td>
<td>5:C:117:ASP:OD1</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>5:C:241:ASP:CG</td>
<td>5:C:242:GLN:N</td>
<td>2.54</td>
<td>0.59</td>
</tr>
<tr>
<td>5:C:92:CYT:SG</td>
<td>5:C:94:LYS:HB3</td>
<td>2.42</td>
<td>0.59</td>
</tr>
<tr>
<td>7:F:81:THR:O</td>
<td>7:F:82:THR:C</td>
<td>2.40</td>
<td>0.59</td>
</tr>
<tr>
<td>5:C:146:LYS:NZ</td>
<td>10:J:58:GLU:OE2</td>
<td>2.30</td>
<td>0.59</td>
</tr>
<tr>
<td>12:L:47:ARG:HG3</td>
<td>12:L:52:GLY:O</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:431:TYR:CZ</td>
<td>4:B:447:ALA:HB2</td>
<td>2.37</td>
<td>0.59</td>
</tr>
<tr>
<td>5:C:22:LEU:HG22</td>
<td>5:C:25:VAL:HG21</td>
<td>1.78</td>
<td>0.59</td>
</tr>
<tr>
<td>6:E:83:CYT:SG</td>
<td>6:E:85:GLU:HB2</td>
<td>2.43</td>
<td>0.59</td>
</tr>
<tr>
<td>8:H:32:THR:HG22</td>
<td>8:H:33:GLN:H</td>
<td>1.68</td>
<td>0.59</td>
</tr>
<tr>
<td>11:K:63:VAL:O</td>
<td>11:K:63:VAL:CG2</td>
<td>2.50</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:14:VAL:HG23</td>
<td>3:A:1432:GLN:NE2</td>
<td>2.18</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:89:PRO:C</td>
<td>3:A:204:THR:HG21</td>
<td>2.22</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:302:THR:HA</td>
<td>3:A:305:ASP:O</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:1172:ILE:O</td>
<td>4:B:1172:ILE:HG22</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:805:THR:HA</td>
<td>4:B:809:MET:HE1</td>
<td>1.84</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:816:GLU:N</td>
<td>4:B:816:GLU:CD</td>
<td>2.56</td>
<td>0.59</td>
</tr>
<tr>
<td>12:L:34:CYT:O</td>
<td>12:L:35:SER:HB2</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>3:A:1192:LEU:HD11</td>
<td>3:A:1239:ARG:HB3</td>
<td>1.84</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:1067:ARG:O</td>
<td>4:B:1086:PHE:CE1</td>
<td>2.56</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:276:ILE:HG22</td>
<td>4:B:277:LYS:N</td>
<td>2.18</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:286:PHE:HB3</td>
<td>4:B:297:ILE:CD1</td>
<td>2.33</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:461:LEU:CD1</td>
<td>4:B:466:TRP:HH2</td>
<td>2.16</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:515:HIS:HD2</td>
<td>4:B:517:THR:OG1</td>
<td>1.84</td>
<td>0.59</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:578:THR:OG1</td>
<td>4:B:593:PRO:HG3</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:642:ASP:N</td>
<td>4:B:642:ASP:OD1</td>
<td>2.36</td>
<td>0.59</td>
</tr>
<tr>
<td>5:C:226:ASP:O</td>
<td>5:C:227:THR:CB</td>
<td>2.47</td>
<td>0.59</td>
</tr>
<tr>
<td>6:E:20:LYS:HE2</td>
<td>6:E:60:PHE:CZ</td>
<td>2.36</td>
<td>0.59</td>
</tr>
<tr>
<td>6:E:94:LYS:HE2</td>
<td>6:E:98:ILE:HG12</td>
<td>1.84</td>
<td>0.59</td>
</tr>
<tr>
<td>12:L:32:ALA:HB3</td>
<td>12:L:55:ILE:HD12</td>
<td>1.84</td>
<td>0.59</td>
</tr>
<tr>
<td>12:L:53:HIS:O</td>
<td>12:L:55:ILE:HG12</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>4:B:1197:PRO:O</td>
<td>4:B:1200:ALA:HB3</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:278:GLN:HG2</td>
<td>4:B:279:ASP:N</td>
<td>2.14</td>
<td>0.58</td>
</tr>
<tr>
<td>7:F:83:PRO:CD</td>
<td>7:F:84:TYR:H</td>
<td>2.15</td>
<td>0.58</td>
</tr>
<tr>
<td>2:T:11:DC:H2&quot;</td>
<td>2:T:12:DG:C5'</td>
<td>2.33</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:7:SER:HB3</td>
<td>4:B:1193:GLN:CD</td>
<td>2.24</td>
<td>0.58</td>
</tr>
<tr>
<td>8:H:24:CYS:HB2</td>
<td>8:H:44:VAL:HG21</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>8:H:58:THR:O</td>
<td>8:H:59:ILE:HD13</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>9:4:PHE:CE1</td>
<td>9:I:13:MET:HE3</td>
<td>2.38</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:1084:GLN:HG2</td>
<td>5:C:201:TRP:CE2</td>
<td>2.38</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:166:PHE:HD2</td>
<td>4:B:166:PHE:O</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:650:GLU:HG3</td>
<td>4:B:651:LEU:H</td>
<td>1.67</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:789:MET:HE3</td>
<td>4:B:965:LYS:HB3</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:1364:ASN:HD22</td>
<td>3:A:1366:ARG:HG2</td>
<td>1.64</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:244:PRO:HG2</td>
<td>3:A:245:PRO:HD2</td>
<td>1.83</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:411:PRO:HA</td>
<td>4:B:414:ALA:HB3</td>
<td>1.83</td>
<td>0.58</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:E:86:PRO:O</td>
<td>6:E:114:ASN:HB2</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:567:LYS:NZ</td>
<td>8:H:95:TYR:CZ</td>
<td>2.64</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:787:VAL:HG</td>
<td>4:B:787:VAL:O</td>
<td>2.02</td>
<td>0.58</td>
</tr>
<tr>
<td>5:C:146:LYS:O</td>
<td>5:C:147:LEU:HD23</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>5:C:66:ARG:CZ</td>
<td>10:J:2:ILE:CG2</td>
<td>2.82</td>
<td>0.58</td>
</tr>
<tr>
<td>6:E:121:MET:G</td>
<td>6:E:123:LEU:H</td>
<td>2.07</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:1342:GLU:CG</td>
<td>6:E:212:ARG:HH2</td>
<td>2.16</td>
<td>0.58</td>
</tr>
<tr>
<td>2:T:5:DT:C2'</td>
<td>2:T:6:DC:H5'</td>
<td>2.28</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:35:ILE:O</td>
<td>3:A:270:LEU:HD11</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:75:SER:CB</td>
<td>4:B:1015:HIS:HE1</td>
<td>2.16</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:1219:ASP:O</td>
<td>4:B:1220:ARG:C</td>
<td>2.42</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:282:ILE:HG13</td>
<td>4:B:283:VAL:N</td>
<td>2.19</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:912:ILE:HD11</td>
<td>4:B:966:VAL:HG21</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:1080:LYS:HG3</td>
<td>5:C:180:TYR:CE2</td>
<td>2.38</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:338:GLY:HA2</td>
<td>4:B:1129:ARG:HH2</td>
<td>1.69</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:528:LEU:HD13</td>
<td>3:A:531:ILE:CG2</td>
<td>2.34</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:230:ALA:N</td>
<td>4:B:231:PRO:CD</td>
<td>2.65</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:635:ARG:NH2</td>
<td>4:B:698:GLU:OE2</td>
<td>2.37</td>
<td>0.58</td>
</tr>
<tr>
<td>6:E:65:THR:OG1</td>
<td>6:E:68:SER:N</td>
<td>2.31</td>
<td>0.58</td>
</tr>
<tr>
<td>11:K:7:PHE:G</td>
<td>11:K:9:LEU:N</td>
<td>2.55</td>
<td>0.58</td>
</tr>
<tr>
<td>1:R:9:G:H4'</td>
<td>4:B:1097:HIS:CD2</td>
<td>2.39</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:236:HIS:HD2</td>
<td>4:B:389:ALA:CB</td>
<td>2.15</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:273:LEU:O</td>
<td>4:B:274:PRO:O</td>
<td>2.22</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:760:ASP:N</td>
<td>4:B:760:ASP:OD1</td>
<td>2.30</td>
<td>0.58</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:E:204:THR:CG2</td>
<td>6:E:205:SER:N</td>
<td>2.66</td>
<td>0.58</td>
</tr>
<tr>
<td>10:J:1:MET:N</td>
<td>10:J:56:LEU:N</td>
<td>2.52</td>
<td>0.58</td>
</tr>
<tr>
<td>11:K:47:ARG:HG2</td>
<td>11:K:47:ARG:O</td>
<td>2.02</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:189:LEU:O</td>
<td>4:B:190:TYR:C</td>
<td>2.40</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:362:PRO:C</td>
<td>4:B:363:HIS:O</td>
<td>2.40</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:834:THR:O</td>
<td>3:A:837:ILE:HB</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:263:GLY:O</td>
<td>4:B:264:SER:C</td>
<td>2.40</td>
<td>0.58</td>
</tr>
<tr>
<td>4:B:287:ARG:NH2</td>
<td>4:B:294:ASP:OD2</td>
<td>2.37</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:482:PHE:O</td>
<td>4:B:989:THR:HG23</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>5:C:11:ARG:HG3</td>
<td>5:C:19:ASP:O</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>3:A:828:ALA:HB2</td>
<td>4:B:530:GLY:HA2</td>
<td>1.86</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:1104:HIS:HB2</td>
<td>4:B:1122:ARG:CD</td>
<td>2.33</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:519:TRP:HZ2</td>
<td>4:B:705:MET:HE1</td>
<td>1.67</td>
<td>0.57</td>
</tr>
<tr>
<td>5:C:56:THR:HG22</td>
<td>5:C:57:VAL:H</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:103:LYS:HG3</td>
<td>3:A:105:LYS:N</td>
<td>2.37</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:33:ALA:C</td>
<td>3:A:34:LYS:HG3</td>
<td>2.23</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:530:GLY:HA2</td>
<td>3:A:533:LYS:H</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:8:SER:OG</td>
<td>4:B:1180:PHE:HE1</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:282:ILE:HG13</td>
<td>4:B:283:VAL:H</td>
<td>1.67</td>
<td>0.57</td>
</tr>
<tr>
<td>5:C:133:ILE:HD11</td>
<td>5:C:237:SER:CA</td>
<td>2.33</td>
<td>0.57</td>
</tr>
<tr>
<td>5:C:4:GLU:CG</td>
<td>5:C:5:GLY:H</td>
<td>2.14</td>
<td>0.57</td>
</tr>
<tr>
<td>6:E:75:MET:CG</td>
<td>6:E:76:GLY:N</td>
<td>2.67</td>
<td>0.57</td>
</tr>
<tr>
<td>9:I:33:SER:C</td>
<td>9:I:34:TYR:O</td>
<td>2.40</td>
<td>0.57</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>4:B:616:ILE:H</td>
<td>4:B:616:ILE:HD12</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>7:F:75:PRO:C</td>
<td>7:F:77:ASP:N</td>
<td>2.55</td>
<td>0.57</td>
</tr>
<tr>
<td>8:H:89:LEU:HD22</td>
<td>8:H:91:ASP:OD2</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>11:K:50:LEU:O</td>
<td>11:K:56:VAL:HG11</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:300:VAL:O</td>
<td>3:A:300:VAL:HG12</td>
<td>2.02</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:897:TYR:CD1</td>
<td>3:A:897:TYR:N</td>
<td>2.70</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:114:PRO:O</td>
<td>4:B:115:GLN:C</td>
<td>2.40</td>
<td>0.57</td>
</tr>
<tr>
<td>6:E:164:LEU:HD22</td>
<td>6:E:211:TYR:HD2</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>6:E:40:GLU:O</td>
<td>6:E:43:LYS:HB3</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:564:ALA:O</td>
<td>8:H:97:MET:HB3</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:1077:THR:HG22</td>
<td>4:B:1079:LYS:N</td>
<td>2.18</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:1219:ASP:O</td>
<td>4:B:1221:SER:N</td>
<td>2.37</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:205:ILE:CG2</td>
<td>4:B:206:ASN:ND2</td>
<td>2.67</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:423:LYS:H3</td>
<td>4:B:423:LYS:HB2</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:796:LEU:HB3</td>
<td>4:B:799:PRO:HG3</td>
<td>1.86</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:738:LYS:NZ</td>
<td>5:C:194:GLU:HA</td>
<td>2.19</td>
<td>0.57</td>
</tr>
<tr>
<td>5:C:73:GLN:HG3</td>
<td>5:C:74:SER:N</td>
<td>2.18</td>
<td>0.57</td>
</tr>
<tr>
<td>6:E:88:VAL:O</td>
<td>6:E:116:ILE:HA</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>11:K:70:ARG:O</td>
<td>11:K:71:PHE:HB3</td>
<td>2.02</td>
<td>0.57</td>
</tr>
<tr>
<td>12:L:60:ARG:HD2</td>
<td>12:L:61:THR:H</td>
<td>1.70</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:115:LEU:CD1</td>
<td>3:A:142:CYS:HB3</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:18:GLN:HB3</td>
<td>4:B:1215:ARG:HG3</td>
<td>1.86</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:808:LEU:O</td>
<td>4:B:728:ARG:NH1</td>
<td>2.37</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:1006:ILE:CD1</td>
<td>10:J:45:CYS:SG</td>
<td>2.93</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:1173:ALA:C</td>
<td>4:B:1175:LEU:H</td>
<td>2.07</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:952:VAL:HB</td>
<td>12:L:58:LYS:HB2</td>
<td>1.86</td>
<td>0.57</td>
</tr>
<tr>
<td>5:C:26:ASP:O</td>
<td>5:C:27:LEU:C</td>
<td>2.42</td>
<td>0.57</td>
</tr>
<tr>
<td>5:C:36:VAL:HG23</td>
<td>11:K:41:THR:CG2</td>
<td>2.29</td>
<td>0.57</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>10:J:32:GLU:CD</td>
<td>10:J:32:GLU:N</td>
<td>2.58</td>
<td>0.57</td>
</tr>
<tr>
<td>11:K:100:ALA:O</td>
<td>11:K:103:THR:HB</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:23:ALA:HB1</td>
<td>4:B:24:PRO:HD2</td>
<td>1.86</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:33:VAL:O</td>
<td>4:B:36:ALA:HB3</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:48:LEU:O</td>
<td>4:B:49:ASP:C</td>
<td>2.42</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:744:HIS:O</td>
<td>4:B:747:MET:HG2</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:754:SER:O</td>
<td>4:B:806:THR:HG21</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:913:GLY:HA2</td>
<td>4:B:938:SER:CB</td>
<td>2.35</td>
<td>0.57</td>
</tr>
<tr>
<td>7:F:82:THR:HG22</td>
<td>7:F:83:PRO:HD2</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:368:ASP:OD1</td>
<td>3:A:369:ASP:C</td>
<td>2.43</td>
<td>0.57</td>
</tr>
<tr>
<td>2:T:5:DT:HT</td>
<td>3:A:448:PRO:HB3</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:839:MET:HG3</td>
<td>4:B:1010:LEU:HD11</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:361:LEU:O</td>
<td>4:B:363:HIS:O</td>
<td>2.23</td>
<td>0.57</td>
</tr>
<tr>
<td>5:C:133:ILE:HD13</td>
<td>5:C:236:GLY:C</td>
<td>2.25</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:540:PHE:HD2</td>
<td>3:A:572:TRP:O</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:350:GLN:O</td>
<td>4:B:351:Tyr:C</td>
<td>2.43</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:644:GLU:CG</td>
<td>4:B:654:ARG:HG22</td>
<td>2.18</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:708:GLU:CG</td>
<td>4:B:709:ASP:H</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:1391:ARG:HG2</td>
<td>3:A:1391:ARG:HH1</td>
<td>1.70</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:35:ILE:O</td>
<td>3:A:35:ILE:HG22</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:408:LYS:HB2</td>
<td>3:A:404:Tyr:HD1</td>
<td>1.67</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:28:GLU:O</td>
<td>4:B:30:SER:N</td>
<td>2.37</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:797:Tyr:HB3</td>
<td>4:B:798:Tyr:CE1</td>
<td>2.40</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:255:SER:HB3</td>
<td>4:B:918:ILE:CG2</td>
<td>2.35</td>
<td>0.57</td>
</tr>
<tr>
<td>4:B:798:Tyr:HH</td>
<td>5:C:62:PHE:HE2</td>
<td>1.51</td>
<td>0.57</td>
</tr>
<tr>
<td>6:E:164:LEU:HD22</td>
<td>6:E:211:Tyr:CD2</td>
<td>2.40</td>
<td>0.57</td>
</tr>
<tr>
<td>3:A:1116:LEU:CD2</td>
<td>3:A:1311:VAL:HA</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>Atom-1</td>
<td>Atom-2</td>
<td>Interatomic distance (Å)</td>
<td>Clash overlap (Å)</td>
</tr>
<tr>
<td>----------------</td>
<td>-----------------</td>
<td>--------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>4:B:1074:ASN:C</td>
<td>4:B:1074:ASN:OD1</td>
<td>2.42</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:798:TYR:CD1</td>
<td>4:B:798:TYR:N</td>
<td>2.71</td>
<td>0.56</td>
</tr>
<tr>
<td>7:F:147:SER:OG</td>
<td>7:F:150:GLU:CG</td>
<td>2.48</td>
<td>0.56</td>
</tr>
<tr>
<td>8:H:36:CYS:CB</td>
<td>8:H:130:ARG:HH22</td>
<td>2.17</td>
<td>0.56</td>
</tr>
<tr>
<td>11:K:56:VAL:HA</td>
<td>11:K:77:THR:HG22</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:31:SER:HB2</td>
<td>3:A:83:HIS:HB3</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:18:GLN:HB3</td>
<td>4:B:1215:ARG:HB2</td>
<td>1.86</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:365:THR:CG2</td>
<td>4:B:366:GLN:N</td>
<td>2.68</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:361:LEU:CD2</td>
<td>4:B:377:PHE:HD2</td>
<td>2.18</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:64:CYS:O</td>
<td>4:B:65:GLU:HB3</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:666:TYR:O</td>
<td>4:B:668:ASP:N</td>
<td>2.33</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:800:GLN:CG</td>
<td>10:J:52:THR:CG2</td>
<td>2.82</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:778:MET:HE1</td>
<td>4:B:853:SER:CB</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>8:H:129:TYR:N</td>
<td>8:H:129:TYR:CD2</td>
<td>2.73</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:668:ASP:OD2</td>
<td>3:A:742:ASN:ND2</td>
<td>2.32</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:67:CYS:O</td>
<td>3:A:70:CYS:CB</td>
<td>2.32</td>
<td>0.56</td>
</tr>
<tr>
<td>5:C:66:ARG:HZ</td>
<td>10:J:2:ILE:HG21</td>
<td>2.36</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:1347:ALA:O</td>
<td>3:A:1348:LEU:C</td>
<td>2.38</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:18:GLN:NE2</td>
<td>3:A:1418:LEU:HB2</td>
<td>2.20</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:121:ASN:H</td>
<td>4:B:121:ASN:HD22</td>
<td>1.53</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:640:VAL:CG2</td>
<td>4:B:740:HIS:CA</td>
<td>2.82</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:954:VAL:HG21</td>
<td>12:L:29:TYR:HE2</td>
<td>1.69</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:947:PHE:CD2</td>
<td>3:A:954:TRP:CE2</td>
<td>2.94</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>4:B:175:ARG:NH1</td>
<td>4:B:175:ARG:CG</td>
<td>2.62</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:252:SER:O</td>
<td>4:B:252:SER:OG</td>
<td>2.20</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:461:LEU:HD11</td>
<td>4:B:466:TRP:HH2</td>
<td>1.71</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:412:LEU:HB3</td>
<td>4:B:466:TRP:NE1</td>
<td>2.19</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:466:TRP:HB2</td>
<td>4:B:479:VAL:CG2</td>
<td>2.36</td>
<td>0.56</td>
</tr>
<tr>
<td>5:C:162:GLY:HA3</td>
<td>5:C:170:TRP:CE2</td>
<td>2.41</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:443:LEU:HD12</td>
<td>4:B:1146:PHE:CZ</td>
<td>2.41</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:1131:GLY:O</td>
<td>4:B:1132:GLU:C</td>
<td>2.43</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:454:THR:HG22</td>
<td>4:B:454:THR:O</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:689:LEU:O</td>
<td>4:B:690:VAL:HG23</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:893:LEU:HD21</td>
<td>4:B:913:GLY:H</td>
<td>1.71</td>
<td>0.56</td>
</tr>
<tr>
<td>5:C:169:LYS:NZ</td>
<td>12:L:69:ALA:O</td>
<td>2.38</td>
<td>0.56</td>
</tr>
<tr>
<td>6:E:46:TYR:CD2</td>
<td>6:E:58:MET:HE3</td>
<td>2.41</td>
<td>0.56</td>
</tr>
<tr>
<td>7:F:111:LEU:H</td>
<td>7:F:111:LEU:CD1</td>
<td>2.19</td>
<td>0.56</td>
</tr>
<tr>
<td>5:C:36:VAL:CG2</td>
<td>11:K:41:THR:HG21</td>
<td>2.32</td>
<td>0.56</td>
</tr>
<tr>
<td>11:K:33:ILE:CD1</td>
<td>11:K:87:LEU:HD22</td>
<td>2.36</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:1116:LEU:HD13</td>
<td>3:A:1329:THR:OG1</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:18:GLN:HG3</td>
<td>3:A:228:PHE:CE1</td>
<td>2.40</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:18:GLN:CB</td>
<td>4:B:1215:ARG:HB2</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:476:ARG:O</td>
<td>4:B:478:GLY:N</td>
<td>2.39</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:642:ASP:HA</td>
<td>4:B:649:LYS:HA</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:792:MET:HA</td>
<td>4:B:856:PHE:O</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>5:C:77:ILE:HA</td>
<td>5:C:129:ILE:HD11</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>8:H:15:VAL:HG22</td>
<td>8:H:26:ILE:HD11</td>
<td>1.88</td>
<td>0.56</td>
</tr>
<tr>
<td>8:H:47:PHE:CD2</td>
<td>8:H:95:TYR:CB</td>
<td>2.89</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:924:LYS:O</td>
<td>3:A:927:VAL:HG12</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:1182:CYS:O</td>
<td>4:B:1182:CYS:SG</td>
<td>2.63</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:1202:LEU:O</td>
<td>4:B:1205:GLN:N</td>
<td>2.38</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:169:ARG:N</td>
<td>4:B:454:THR:OG1</td>
<td>2.39</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:560:GLU:O</td>
<td>4:B:561:TRP:CD1</td>
<td>2.58</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:805:LEU:O</td>
<td>4:B:761:HIS:ND1</td>
<td>2.38</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>3:A:804:TYR:CE2</td>
<td>4:B:763:GLN:HA</td>
<td>2.40</td>
<td>0.56</td>
</tr>
<tr>
<td>5:C:244:VAL:CG2</td>
<td>5:C:245:VAL:N</td>
<td>2.69</td>
<td>0.56</td>
</tr>
<tr>
<td>6:E:182:ASP:O</td>
<td>6:E:185:ALA:N</td>
<td>2.38</td>
<td>0.56</td>
</tr>
<tr>
<td>7:F:72:LYS:O</td>
<td>7:F:73:ALA:CB</td>
<td>2.54</td>
<td>0.56</td>
</tr>
<tr>
<td>8:H:38:LEU:HB2</td>
<td>8:H:125:LEU:CD1</td>
<td>2.36</td>
<td>0.56</td>
</tr>
<tr>
<td>5:C:58:LEU:CD2</td>
<td>10:J:57:ILE:HD13</td>
<td>2.35</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:1017:ILE:H</td>
<td>4:B:1018:PRO:CD</td>
<td>2.19</td>
<td>0.56</td>
</tr>
<tr>
<td>5:C:241:ASP:CG</td>
<td>5:C:242:GLN:H</td>
<td>2.08</td>
<td>0.56</td>
</tr>
<tr>
<td>7:F:111:LEU:C</td>
<td>7:F:113:GLY:N</td>
<td>2.54</td>
<td>0.56</td>
</tr>
<tr>
<td>11:K:83:PRO:HA</td>
<td>11:K:86:ALA:HB3</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:765:VAL:HG23</td>
<td>3:A:800:VAL:HB</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:236:HIS:CD2</td>
<td>4:B:389:ALA:CB</td>
<td>2.88</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:469:GLN:HG3</td>
<td>4:B:470:LYS:H</td>
<td>1.70</td>
<td>0.56</td>
</tr>
<tr>
<td>5:C:22:LEU:HD23</td>
<td>5:C:25:VAL:HG21</td>
<td>1.84</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:1001:ARG:HD2</td>
<td>7:F:80:ALA:O</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:1394:THR:HG21</td>
<td>3:A:1398:MET:HE3</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:531:ILE:CD1</td>
<td>3:A:622:VAL:HG1</td>
<td>2.34</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:346:ASP:HB2</td>
<td>4:B:1154:ALA:HB1</td>
<td>1.88</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:298:LEU:N</td>
<td>4:B:298:LEU:HD23</td>
<td>2.20</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:323:VAL:HG12</td>
<td>4:B:323:VAL:O</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:519:TRP:CH2</td>
<td>4:B:705:MET:HE1</td>
<td>2.40</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:70:ILE:HG22</td>
<td>4:B:70:ILE:O</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>4:B:773:MET:C</td>
<td>4:B:775:LYS:H</td>
<td>2.09</td>
<td>0.56</td>
</tr>
<tr>
<td>5:C:243:VAL:O</td>
<td>5:C:244:VAL:C</td>
<td>2.43</td>
<td>0.56</td>
</tr>
<tr>
<td>6:E:63:ASN:HB3</td>
<td>6:E:64:PRO:HD2</td>
<td>1.88</td>
<td>0.56</td>
</tr>
<tr>
<td>11:K:32:VAL:CG2</td>
<td>11:K:74:ARG:HG3</td>
<td>2.32</td>
<td>0.56</td>
</tr>
<tr>
<td>3:A:841:LEU:O</td>
<td>3:A:845:LEU:HG</td>
<td>2.05</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:361:LEU:HD23</td>
<td>4:B:377:PHE:HD2</td>
<td>1.70</td>
<td>0.55</td>
</tr>
<tr>
<td>5:C:74:SER:CA</td>
<td>5:C:77:ILE:HG12</td>
<td>2.35</td>
<td>0.55</td>
</tr>
<tr>
<td>Atom-1</td>
<td>Atom-2</td>
<td>Interatomic distance (Å)</td>
<td>Clash overlap (Å)</td>
</tr>
<tr>
<td>--------</td>
<td>--------</td>
<td>--------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>4:B:130:VAL:HG12</td>
<td>4:B:132:VAL:CG2</td>
<td>2.33</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:899:ILE:CD1</td>
<td>4:B:911:ILE:HG12</td>
<td>2.30</td>
<td>0.55</td>
</tr>
<tr>
<td>6:E:164:LEU:CD1</td>
<td>6:E:211:TYR:CE2</td>
<td>2.88</td>
<td>0.55</td>
</tr>
<tr>
<td>3:A:733:ALA:C</td>
<td>3:A:735:VAL:N</td>
<td>2.57</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:1159:ARG:NE</td>
<td>4:B:1193:GLN:HG3</td>
<td>2.21</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:130:VAL:CG1</td>
<td>4:B:132:VAL:HG23</td>
<td>2.31</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:286:PHE:HB3</td>
<td>4:B:297:ILE:HD11</td>
<td>1.88</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:365:THR:HG23</td>
<td>4:B:367:LEU:N</td>
<td>2.19</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:613:VAL:HG12</td>
<td>4:B:627:PHE:O</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:627:PHE:HB3</td>
<td>4:B:632:ARG:HH11</td>
<td>1.70</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:653:VAL:O</td>
<td>4:B:654:ARG:CD</td>
<td>2.55</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:778:MET:O</td>
<td>4:B:819:ALA:HB1</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>5:C:258:ILE:HD11</td>
<td>11:K:42:LEU:CD2</td>
<td>2.29</td>
<td>0.55</td>
</tr>
<tr>
<td>7:F:133:VAL:HG23</td>
<td>7:F:147:SER:HA</td>
<td>1.88</td>
<td>0.55</td>
</tr>
<tr>
<td>8:H:102:TYR:N</td>
<td>8:H:102:TYR:HD2</td>
<td>2.05</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:1203:LEU:HD11</td>
<td>4:B:1207:LEU:HG</td>
<td>1.88</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:26:THR:O</td>
<td>4:B:29:ASP:HB2</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:911:ILE:CD1</td>
<td>4:B:941:LEU:HD23</td>
<td>2.36</td>
<td>0.55</td>
</tr>
<tr>
<td>5:C:8:VAL:HA</td>
<td>5:C:21:ILE:O</td>
<td>2.06</td>
<td>0.55</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>11:K:88:LYS:O</td>
<td>11:K:89:ASN:C</td>
<td>2.43</td>
<td>0.55</td>
</tr>
<tr>
<td>3:A:1127:ASP:C</td>
<td>3:A:1129:GLU:N</td>
<td>2.60</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:203:PHE:CD1</td>
<td>4:B:461:LEU:HD2</td>
<td>2.41</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:976:ILE:O</td>
<td>4:B:990:ILE:HB</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>5:C:80:LEU:HD11</td>
<td>5:C:95:CYS:HA</td>
<td>1.88</td>
<td>0.55</td>
</tr>
<tr>
<td>8:H:12:VAL:HG13</td>
<td>8:H:26:ILE:HG23</td>
<td>1.88</td>
<td>0.55</td>
</tr>
<tr>
<td>10:J:34:THR:O</td>
<td>10:J:35:ALA:C</td>
<td>2.43</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:1017:ILE:H</td>
<td>4:B:1018:PRO:HD2</td>
<td>1.71</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:1208:MET:HA</td>
<td>4:B:1212:ILE:O</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:658:ILE:O</td>
<td>4:B:661:LEU:HB2</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:665:GLU:O</td>
<td>4:B:668:ASP:HB2</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:766:ARG:O</td>
<td>4:B:769:TYR:N</td>
<td>2.38</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:897:GLY:O</td>
<td>4:B:898:LEU:HD23</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>5:C:172:PRO:CD</td>
<td>5:C:173:ALA:N</td>
<td>2.69</td>
<td>0.55</td>
</tr>
<tr>
<td>6:E:75:MET:HG2</td>
<td>6:E:76:GLY:N</td>
<td>2.21</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:900:ALA:HB1</td>
<td>12:L:61:THR:OG1</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:349:ILE:O</td>
<td>4:B:350:GLN:C</td>
<td>2.45</td>
<td>0.55</td>
</tr>
<tr>
<td>8:H:88:SER:C</td>
<td>8:H:89:LEU:HG</td>
<td>2.27</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:1106:ARG:NH2</td>
<td>4:B:1109:GLY:N</td>
<td>2.54</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:170:LEU:HD12</td>
<td>4:B:171:PRO:HD2</td>
<td>1.88</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:760:ASP:O</td>
<td>4:B:762:ASN:N</td>
<td>2.36</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:795:ILE:HD12</td>
<td>4:B:795:ILE:N</td>
<td>2.21</td>
<td>0.55</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:1051:THR:HG21</td>
<td>4:B:1053:GLU:HB2</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:400:HIS:CE1</td>
<td>4:B:517:THR:HG21</td>
<td>2.42</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:449:ASN:O</td>
<td>4:B:451:LYS:N</td>
<td>2.40</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:69:LEU:HD22</td>
<td>4:B:429:PHE:CE1</td>
<td>2.42</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:778:MET:HE1</td>
<td>4:B:853:SER:HB3</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>5:C:47:ASP:O</td>
<td>5:C:48:SER:HB2</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:114:PRO:HG2</td>
<td>4:B:181:LEU:HD11</td>
<td>1.88</td>
<td>0.55</td>
</tr>
<tr>
<td>3:A:7:SER:HA</td>
<td>4:B:1175:LEU:HD21</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>4:B:446:LEU:O</td>
<td>4:B:446:LEU:HD23</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>3:A:569:LYS:HD2</td>
<td>5:C:221:TYR:O</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>8:H:36:CY5:HG2</td>
<td>8:H:126:GLU:O</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>3:A:300:VAL:O</td>
<td>3:A:304:MET:HE2</td>
<td>2.06</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:118:ARG:HA</td>
<td>4:B:207:GLY:HA2</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:223:VAL:O</td>
<td>4:B:223:VAL:CG1</td>
<td>2.54</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:356:LEU:CD2</td>
<td>4:B:356:LEU:N</td>
<td>2.66</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:22:SER:O</td>
<td>4:B:654:ARG:HD2</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:640:VAL:CG2</td>
<td>4:B:740:HIS:N</td>
<td>2.70</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:899:ILE:HD11</td>
<td>4:B:911:ILE:CB</td>
<td>2.37</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:975:GLN:HG2</td>
<td>4:B:976:ILE:H</td>
<td>1.71</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:240:VAL:O</td>
<td>5:C:241:ASP:C</td>
<td>2.45</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:43:THR:HG23</td>
<td>5:C:44:LEU:H</td>
<td>1.72</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:1076:HIS:CG</td>
<td>11:K:40:HIS:HD2</td>
<td>2.24</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:568:PRO:HB2</td>
<td>5:C:221:TYR:CE1</td>
<td>2.43</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:679:ILE:CG2</td>
<td>3:A:729:ALA:HB1</td>
<td>2.32</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:879:GLU:O</td>
<td>3:A:881:GLN:HG3</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:886:ILE:HG22</td>
<td>3:A:887:GLY:N</td>
<td>2.22</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:1008:PRO:HG2</td>
<td>4:B:1011:ILE:HD11</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:43:LEU:HD11</td>
<td>4:B:811:TYR:O</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>11:K:32:VAL:O</td>
<td>11:K:32:VAL:CG1</td>
<td>2.55</td>
<td>0.54</td>
</tr>
<tr>
<td>2:T:8:DT:HG2</td>
<td>2:T:9:DC:C6</td>
<td>2.41</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:1400:CY5:SG</td>
<td>3:A:1409:LEU:HG</td>
<td>2.47</td>
<td>0.54</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:178:ASN:O</td>
<td>4:B:179:CYS:C</td>
<td>2.45</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:58:LEU:HD21</td>
<td>10:J:57:ILE:CD1</td>
<td>2.33</td>
<td>0.54</td>
</tr>
<tr>
<td>6:E:190:LEU:CD2</td>
<td>6:E:190:LEU:N</td>
<td>2.69</td>
<td>0.54</td>
</tr>
<tr>
<td>8:H:58:THR:HB</td>
<td>8:H:143:LEU:CD1</td>
<td>2.37</td>
<td>0.54</td>
</tr>
<tr>
<td>8:H:4:THR:HG22</td>
<td>8:H:5:LEU:N</td>
<td>2.23</td>
<td>0.54</td>
</tr>
<tr>
<td>8:H:61:SER:HB3</td>
<td>8:H:139:ASN:HB3</td>
<td>1.90</td>
<td>0.54</td>
</tr>
<tr>
<td>8:H:81:PRO:CB</td>
<td>8:H:82:PRO:CD</td>
<td>2.71</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:900:ALA:CB</td>
<td>12:L:61:THR:OG1</td>
<td>2.55</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:181:LEU:O</td>
<td>3:A:202:LEU:HD12</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:261:ASP:HB3</td>
<td>3:A:323:LYS:HE3</td>
<td>1.88</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:640:GLN:O</td>
<td>3:A:643:ALA:HB3</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:1064:TYR:N</td>
<td>4:B:1064:TYR:CD1</td>
<td>2.75</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:174:LEU:HD22</td>
<td>4:B:204:ILE:CD1</td>
<td>2.14</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:423:LYS:HA</td>
<td>4:B:426:LYS:HZ1</td>
<td>1.72</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:893:LEU:CD2</td>
<td>4:B:913:GLY:H</td>
<td>2.21</td>
<td>0.54</td>
</tr>
<tr>
<td>7:F:123:LYS:CG</td>
<td>7:F:123:LYS:O</td>
<td>2.55</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:1291:VAL:CG1</td>
<td>3:A:1292:PRO:CD</td>
<td>2.84</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:1436:ILE:CD1</td>
<td>4:B:1139:ILE:HG23</td>
<td>2.38</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:756:ILE:O</td>
<td>3:A:759:ALA:HB3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:909:ASP:OD2</td>
<td>3:A:910:PRO:HD3</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:918:GLU:O</td>
<td>3:A:918:GLU:OE1</td>
<td>2.25</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:1073:TYR:N</td>
<td>4:B:1073:TYR:CD1</td>
<td>2.74</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:230:ALA:CB</td>
<td>4:B:231:PRO:CD</td>
<td>2.83</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:34:ILE:CD1</td>
<td>4:B:34:ILE:N</td>
<td>2.71</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:589:VAL:CG1</td>
<td>4:B:590:HIS:N</td>
<td>2.70</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:871:THR:O</td>
<td>4:B:872:GLU:C</td>
<td>2.46</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:166:GLU:HG3</td>
<td>11:K:10:PHE:CY</td>
<td>2.42</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:242:GLN:HE21</td>
<td>5:C:246:ARG:NE</td>
<td>2.00</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:6:PRO:HG2</td>
<td>11:K:97:LYS:HB3</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>6:E:90:VAL:H</td>
<td>6:E:120:ALA:HB2</td>
<td>1.72</td>
<td>0.54</td>
</tr>
<tr>
<td>8:H:103:LYS:HB3</td>
<td>8:H:115:TYR:HD1</td>
<td>1.73</td>
<td>0.54</td>
</tr>
<tr>
<td>2:T:1:DA:C2</td>
<td>2:T:2:DC:O5</td>
<td>2.44</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:1132:LYS:O</td>
<td>3:A:1135:ARG:CB</td>
<td>2.55</td>
<td>0.54</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:A:273:ASN:N</td>
<td>3:A:296:LEU:CD1</td>
<td>2.70</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:1184:GLY:C</td>
<td>4:B:1186:ASP:N</td>
<td>2.60</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:288:ALA:O</td>
<td>4:B:327:ARG:NH2</td>
<td>2.37</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:356:LEU:O</td>
<td>4:B:357:GLN:HG3</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:59:LEU:CD1</td>
<td>4:B:417:PHE:CE2</td>
<td>2.90</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:773:MET:C</td>
<td>4:B:775:LYS:N</td>
<td>2.59</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:899:ILE:HD11</td>
<td>4:B:911:ILE:CG2</td>
<td>2.36</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:843:GLN:HB2</td>
<td>4:B:993:THR:HB</td>
<td>1.90</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:1084:GLN:HB3</td>
<td>5:C:201:TRP:HH2</td>
<td>1.72</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:260:LEU:O</td>
<td>5:C:263:THR:HB</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:92:CYS:SG</td>
<td>5:C:94:LYS:N</td>
<td>2.80</td>
<td>0.54</td>
</tr>
<tr>
<td>6:E:157:SER:O</td>
<td>6:E:159:ASP:N</td>
<td>2.41</td>
<td>0.54</td>
</tr>
<tr>
<td>6:E:162:ARG:NH2</td>
<td>6:E:166:LYS:HZ2</td>
<td>2.04</td>
<td>0.54</td>
</tr>
<tr>
<td>6:E:156:LEU:HD21</td>
<td>6:E:197:LYS:HB2</td>
<td>1.88</td>
<td>0.54</td>
</tr>
<tr>
<td>7:F:73:ALA:O</td>
<td>7:F:74:ILE:CG1</td>
<td>2.45</td>
<td>0.54</td>
</tr>
<tr>
<td>8:H:77:ARG:O</td>
<td>8:H:78:SER:C</td>
<td>2.46</td>
<td>0.54</td>
</tr>
<tr>
<td>8:H:88:SER:O</td>
<td>8:H:89:LEU:HG</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>2:T:5:DT:H2</td>
<td>2:T:6:DC:C5'</td>
<td>2.29</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:1236:LEU:C</td>
<td>3:A:1237:ILE:HG13</td>
<td>2.29</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:530:GLY:O</td>
<td>3:A:653:VAL:CG1</td>
<td>2.56</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:596:THR:O</td>
<td>3:A:597:LEU:C</td>
<td>2.46</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:1159:ARG:HE</td>
<td>4:B:1193:GLN:HE21</td>
<td>1.56</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:428:ILE:O</td>
<td>4:B:429:PHE:C</td>
<td>2.45</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:557:PHE:CD2</td>
<td>4:B:557:PHE:C</td>
<td>2.81</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:641:GLU:HB3</td>
<td>4:B:643:ASP:OD2</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:707:PRO:CD</td>
<td>4:B:708:GLU:H</td>
<td>2.19</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:172:PRO:CD</td>
<td>5:C:173:ALA:H</td>
<td>2.21</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:193:TYR:H</td>
<td>5:C:193:TYR:HD2</td>
<td>1.55</td>
<td>0.54</td>
</tr>
<tr>
<td>6:E:37:LEU:CG</td>
<td>6:E:37:LEU:O</td>
<td>2.56</td>
<td>0.54</td>
</tr>
<tr>
<td>6:E:98:ILE:O</td>
<td>6:E:100:ILE:N</td>
<td>2.40</td>
<td>0.54</td>
</tr>
<tr>
<td>9:I:25:LEU:O</td>
<td>9:I:26:LEU:HD23</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>9:I:56:ALA:O</td>
<td>9:I:57:GLY:C</td>
<td>2.44</td>
<td>0.54</td>
</tr>
<tr>
<td>12:L:29:TYR:C</td>
<td>12:L:30:ILE:HG13</td>
<td>2.27</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:1220:PHE:O</td>
<td>3:A:1222:ASN:N</td>
<td>2.40</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:1067:LEU:CD2</td>
<td>3:A:1367:HIS:CE1</td>
<td>2.84</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:537:ARG:CG</td>
<td>3:A:537:ARG:HH11</td>
<td>2.21</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:89:PRO:C</td>
<td>3:A:90:VAL:CG2</td>
<td>2.77</td>
<td>0.54</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:1099:VAL:O</td>
<td>4:B:1103:ILE:CD1</td>
<td>2.56</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:1102:LYS:HB2</td>
<td>4:B:1103:ILE:HD13</td>
<td>1.90</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:378:LEU:O</td>
<td>4:B:382:ILE:HG12</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:469:GLN:CG</td>
<td>4:B:470:LYS:H</td>
<td>2.21</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:563:MET:CE</td>
<td>4:B:588:GLY:HA3</td>
<td>2.37</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:577:ALA:HB1</td>
<td>4:B:589:VAL:HG11</td>
<td>1.86</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:69:LEU:N</td>
<td>5:C:69:LEU:CD1</td>
<td>2.71</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:80:LEU:HD11</td>
<td>5:C:80:LEU:CD1</td>
<td>2.38</td>
<td>0.54</td>
</tr>
<tr>
<td>6:E:115:ASN:O</td>
<td>6:E:116:ILE:HG12</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>6:E:173:SER:C</td>
<td>6:E:175:LEU:H</td>
<td>2.11</td>
<td>0.54</td>
</tr>
<tr>
<td>6:E:197:LYS:C</td>
<td>6:E:198:ILE:HG13</td>
<td>2.28</td>
<td>0.54</td>
</tr>
<tr>
<td>6:E:29:PHE:C</td>
<td>6:E:30:ILE:HG13</td>
<td>2.27</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:139:TRP:O</td>
<td>3:A:141:LEU:N</td>
<td>2.40</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:216:VAL:O</td>
<td>3:A:219:PHE:HB2</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:856:THR:HB</td>
<td>3:A:865:GLN:HB2</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:863:VAL:HG11</td>
<td>3:A:866:PHE:CE2</td>
<td>2.43</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:329:THR:C</td>
<td>4:B:332:ASP:HB2</td>
<td>2.27</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:555:ILE:HD11</td>
<td>4:B:582:VAL:CG1</td>
<td>2.33</td>
<td>0.54</td>
</tr>
<tr>
<td>9:I:50:THR:CG2</td>
<td>9:I:52:ILE:CG2</td>
<td>2.83</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:1076:ALA:HA</td>
<td>3:A:1079:MET:CE</td>
<td>2.38</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:1160:VAL:O</td>
<td>4:B:1194:ILE:HD13</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:123:THR:O</td>
<td>4:B:125:SER:N</td>
<td>2.41</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:223:VAL:HG12</td>
<td>4:B:223:VAL:O</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:314:LEU:O</td>
<td>4:B:315:LYS:C</td>
<td>2.46</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:412:LEU:O</td>
<td>4:B:413:LEU:C</td>
<td>2.46</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:57:TYR:CD1</td>
<td>4:B:57:TYR:N</td>
<td>2.76</td>
<td>0.54</td>
</tr>
<tr>
<td>4:B:784:ASN:CG</td>
<td>4:B:788:ARG:HD2</td>
<td>2.27</td>
<td>0.54</td>
</tr>
<tr>
<td>5:C:99:LEU:CD2</td>
<td>5:C:99:LEU:N</td>
<td>2.70</td>
<td>0.54</td>
</tr>
<tr>
<td>11:K:32:VAL:O</td>
<td>11:K:32:VAL:HG12</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:547:LEU:CD2</td>
<td>11:K:58:PHE:HD1</td>
<td>2.14</td>
<td>0.54</td>
</tr>
<tr>
<td>11:K:65:HIS:CD2</td>
<td>11:K:66:PRO:N</td>
<td>2.76</td>
<td>0.54</td>
</tr>
<tr>
<td>11:K:71:PHE:C</td>
<td>11:K:71:PHE:CD1</td>
<td>2.82</td>
<td>0.54</td>
</tr>
<tr>
<td>3:A:1229:SER:CB</td>
<td>3:A:1233:ASP:OD2</td>
<td>2.56</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:77:CYS:SG</td>
<td>3:A:80:HIS:CE1</td>
<td>3.01</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:233:PRO:HG2</td>
<td>4:B:234:ILE:H</td>
<td>1.73</td>
<td>0.53</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:297:ILE:O</td>
<td>4:B:300:HIS:N</td>
<td>2.41</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:426:LYS:O</td>
<td>4:B:430:ARG:CZ</td>
<td>2.56</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:590:HIS:CD2</td>
<td>4:B:596:LEU:HD22</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:801:LYS:N</td>
<td>10:J:52:THR:CG2</td>
<td>2.71</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:22:LEU:HD23</td>
<td>5:C:22:LEU:C</td>
<td>2.28</td>
<td>0.53</td>
</tr>
<tr>
<td>6:E:113:GLN:HB3</td>
<td>6:E:137:GLU:CD</td>
<td>2.27</td>
<td>0.53</td>
</tr>
<tr>
<td>7:F:76:LYS:O</td>
<td>7:F:79:ARG:HD3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:16:GLU:HB2</td>
<td>4:B:1217:TYR:HB2</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:1096:ARG:HG2</td>
<td>4:B:1096:ARG:HH11</td>
<td>1.72</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:292:ILE:HD12</td>
<td>4:B:326:ASP:HA</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:482:VAL:O</td>
<td>4:B:483:LEU:C</td>
<td>2.47</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:255:VAL:HG12</td>
<td>11:K:91:CYS:HB3</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>8:H:84:ALA:HB1</td>
<td>8:H:87:ARG:CB</td>
<td>2.38</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:1148:ILE:CD1</td>
<td>3:A:1198:ASP:HB2</td>
<td>2.38</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:89:PRO:C</td>
<td>3:A:204:THR:CG2</td>
<td>2.77</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:361:LEU:HD12</td>
<td>4:B:361:LEU:N</td>
<td>2.22</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:57:VAL:CG2</td>
<td>10:J:57:ILE:HD11</td>
<td>2.37</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:63:ILE:HG22</td>
<td>5:C:67:LEU:HD11</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:52:GLU:HA</td>
<td>12:L:64:LEU:HD22</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:1106:ARG:NH1</td>
<td>4:B:1118:PRO:HB3</td>
<td>2.23</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:638:PHE:HD2</td>
<td>4:B:653:VAL:Hg21</td>
<td>1.71</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:821:GLN:HB2</td>
<td>4:B:851:PHE:CE2</td>
<td>2.44</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:856:PHE:N</td>
<td>4:B:856:PHE:CD1</td>
<td>2.76</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:857:ARG:NH1</td>
<td>7:F:139:PRO:HG2</td>
<td>2.24</td>
<td>0.53</td>
</tr>
<tr>
<td>8:H:138:GLU:C</td>
<td>8:H:139:ASN:O</td>
<td>2.46</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>11:K:47:ARG:HH11</td>
<td>11:K:47:ARG:HG2</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>2:T:1:DA:H2&lt;sup&gt;2&lt;/sup&gt;</td>
<td>2:T:2:DC:C5&lt;sup&gt;5&lt;/sup&gt;</td>
<td>2.39</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:1155:ASP:HB3</td>
<td>3:A:1241:ARG:HH21</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:1147:LEU:O</td>
<td>4:B:1151:LEU:HB2</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:1158:PHE:CE2</td>
<td>4:B:1160:VAL:HG22</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:228:LYS:O</td>
<td>4:B:229:ALA:O</td>
<td>2.25</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:487:THR:CG2</td>
<td>4:B:488:TYR:N</td>
<td>2.71</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:877:PRO:O</td>
<td>4:B:878:GLN:CG</td>
<td>2.56</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:1118:VAL:O</td>
<td>3:A:1305:VAL:HG13</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:1348:LEU:O</td>
<td>3:A:1352:VAL:HG23</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:1364:ASN:C</td>
<td>3:A:1364:ASN:ND2</td>
<td>2.62</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:947:PHE:HD2</td>
<td>3:A:954:TRP:CE2</td>
<td>2.27</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:1096:ARG:HG3</td>
<td>4:B:1097:HIS:N</td>
<td>2.23</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:70:ILE:HD11</td>
<td>5:C:144:ILE:HD11</td>
<td>1.86</td>
<td>0.53</td>
</tr>
<tr>
<td>12:L:45:ALA:O</td>
<td>12:L:46:VAL:HG23</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:953:ASN:C</td>
<td>3:A:954:TRP:CD1</td>
<td>2.82</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:1024:ALA:O</td>
<td>4:B:1025:HIS:C</td>
<td>2.46</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:321:GLY:O</td>
<td>4:B:324:ILE:N</td>
<td>2.41</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:326:ASP:CG</td>
<td>4:B:329:THR:OG1</td>
<td>2.47</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:604:ARG:HG21</td>
<td>4:B:614:SER:HA</td>
<td>1.74</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:826:ALA:HB2</td>
<td>4:B:1087:PHE:CE1</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:67:LEU:O</td>
<td>5:C:70:ILE:HB</td>
<td>2.08</td>
<td>0.53</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>3:A:1444:MET:CB</td>
<td>7:F:133:VAL:HG12</td>
<td>2.38</td>
<td>0.53</td>
</tr>
<tr>
<td>11:K:49:GLU:C</td>
<td>11:K:51:LEU:H</td>
<td>2.11</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:60:ASP:CB</td>
<td>12:L:67:PH2:CE1</td>
<td>2.80</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:606:LEU:HD22</td>
<td>3:A:614:PHE:CE2</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:1007:VAL:HG22</td>
<td>4:B:1008:PRO:HD2</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:317:CYS:O</td>
<td>4:B:320:ASP:N</td>
<td>2.33</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:274:PRO:HC2</td>
<td>4:B:359:GLU:O</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:466:TRP:HB2</td>
<td>4:B:479:VAL:HG23</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:712:PRO:O</td>
<td>4:B:712:PRO:CD</td>
<td>2.51</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:901:PRO:HA</td>
<td>4:B:949:VAL:HB</td>
<td>1.89</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:957:ASN:HD21</td>
<td>4:B:958:GLN:HB2</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:74:SER:HB3</td>
<td>5:C:77:ILE:CG1</td>
<td>2.39</td>
<td>0.53</td>
</tr>
<tr>
<td>6:E:113:GLN:C</td>
<td>6:E:114:ASN:HD22</td>
<td>2.11</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:662:PHE:O</td>
<td>4:B:828:ALA:HA</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:840:ILE:O</td>
<td>4:B:1010:LEU:HD12</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:840:ILE:O</td>
<td>4:B:1010:LEU:HD12</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:112:LEU:O</td>
<td>4:B:180:TYR:CE1</td>
<td>2.59</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:1172:ILE:O</td>
<td>4:B:1172:ILE:CG2</td>
<td>2.56</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:295:GLY:C</td>
<td>4:B:297:ILE:N</td>
<td>2.55</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:498:THR:HB</td>
<td>4:B:537:LYS:O</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:805:THR:HA</td>
<td>4:B:809:MET:CE</td>
<td>2.39</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:844:SER:OG</td>
<td>4:B:996:ARG:O</td>
<td>2.27</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:885:MET:HA</td>
<td>4:B:936:ASP:HB3</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:942:ARG:HB2</td>
<td>4:B:945:GLU:HB2</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:800:GLN:HG3</td>
<td>10:J:52:THR:HB</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:1132:LYS:O</td>
<td>3:A:1135:ARG:HB3</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>Atom-1</td>
<td>Atom-2</td>
<td>Interatomic distance (Å)</td>
<td>Clash overlap (Å)</td>
</tr>
<tr>
<td>-----------</td>
<td>-----------</td>
<td>--------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>4:B:203:PHE:CE1</td>
<td>4:B:212:LEU:HD12</td>
<td>2.44</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:635:ARG:CD</td>
<td>4:B:636:PRO:CD</td>
<td>2.78</td>
<td>0.53</td>
</tr>
<tr>
<td>4:B:824:ILE:HD11</td>
<td>10:J:45:CYS:HA</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:181:ASP:OD1</td>
<td>5:C:183:TRP:O</td>
<td>2.26</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:244:VAL:HG21</td>
<td>11:K:105:PHE:CE1</td>
<td>2.43</td>
<td>0.53</td>
</tr>
<tr>
<td>5:C:41:ILE:CG1</td>
<td>5:C:172:PRO:HG3</td>
<td>2.39</td>
<td>0.53</td>
</tr>
<tr>
<td>3:A:230:ARG:O</td>
<td>3:A:233:TRP:HB2</td>
<td>2.08</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:30:ILE:HG13</td>
<td>4:B:1170:THR:CG2</td>
<td>2.38</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:472:LEU:O</td>
<td>3:A:475:THR:HB</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:660:ASN:ND2</td>
<td>4:B:1082:MET:HB3</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:892:ALA:CA</td>
<td>3:A:895:LYS:HB2</td>
<td>2.15</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:369:GLY:HA2</td>
<td>4:B:371:GLU:OE1</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:254:GLU:HB3</td>
<td>4:B:935:ARG:HH11</td>
<td>1.73</td>
<td>0.52</td>
</tr>
<tr>
<td>5:C:193:TYR:N</td>
<td>5:C:193:TYR:CD2</td>
<td>2.76</td>
<td>0.52</td>
</tr>
<tr>
<td>5:C:244:VAL:HG21</td>
<td>11:K:105:PHE:CE2</td>
<td>2.45</td>
<td>0.52</td>
</tr>
<tr>
<td>5:C:77:ILE:CD1</td>
<td>5:C:129:ILE:HD11</td>
<td>2.38</td>
<td>0.52</td>
</tr>
<tr>
<td>8:H:114:VAL:N</td>
<td>8:H:125:LEU:O</td>
<td>2.41</td>
<td>0.52</td>
</tr>
<tr>
<td>8:H:39:THR:OG1</td>
<td>8:H:124:ARG:HB3</td>
<td>2.08</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:184:SER:O</td>
<td>3:A:185:TRP:CB</td>
<td>2.57</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:278:GLN:CG</td>
<td>4:B:279:ASP:H</td>
<td>2.17</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:215:GLN:O</td>
<td>4:B:406:LEU:HA</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:843:GLN:HB2</td>
<td>4:B:993:THR:CB</td>
<td>2.39</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:936:ASP:OD2</td>
<td>4:B:938:SER:OG</td>
<td>2.28</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:847:ASP:HB3</td>
<td>5:C:167:HIS:HD2</td>
<td>1.72</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:870:GLU:HG2</td>
<td>6:E:208:TYR:CD2</td>
<td>2.44</td>
<td>0.52</td>
</tr>
<tr>
<td>6:E:65:THR:OG1</td>
<td>6:E:67:GLU:CB</td>
<td>2.48</td>
<td>0.52</td>
</tr>
<tr>
<td>11:K:83:PRO:O</td>
<td>11:K:87:LEU:N</td>
<td>2.37</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:844:ALA:HB2</td>
<td>3:A:1389:PHE:CD2</td>
<td>2.45</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:396:PRO:C</td>
<td>3:A:397:ASN:OD1</td>
<td>2.48</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:530:GLY:CA</td>
<td>3:A:532:ARG:H</td>
<td>2.22</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:634:THR:HG1</td>
<td>3:A:642:CYS:HG</td>
<td>1.54</td>
<td>0.52</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:A:76:GLU:O</td>
<td>3:A:76:GLU:HG3</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:59:LEU:CD1</td>
<td>4:B:417:PHE:CD2</td>
<td>2.92</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:542:MET:HE2</td>
<td>4:B:747:MET:HE2</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:757:PRO:O</td>
<td>4:B:758:PHE:HB2</td>
<td>2.08</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:800:GLN:HG3</td>
<td>10:J:52:THR:CG2</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>6:E:35:VAL:C</td>
<td>6:E:37:LEU:H</td>
<td>2.13</td>
<td>0.52</td>
</tr>
<tr>
<td>11:K:40:HIS:CE1</td>
<td>11:K:63:VAL:HG13</td>
<td>2.39</td>
<td>0.52</td>
</tr>
<tr>
<td>12:L:34:CYS:SG</td>
<td>12:L:35:SER:N</td>
<td>2.82</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:1099:PRO:O</td>
<td>3:A:1102:LYS:HB3</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:453:MET:HE3</td>
<td>3:A:513:SER:HB2</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:1035:ALA:O</td>
<td>4:B:1036:ALA:C</td>
<td>2.46</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:665:GLY:HA2</td>
<td>4:B:1086:PHE:CD1</td>
<td>2.44</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:109:THR:O</td>
<td>4:B:109:THR:HG22</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:708:GLU:C</td>
<td>4:B:710:LEU:N</td>
<td>2.60</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:803:LEU:H</td>
<td>4:B:822:ASN:HD21</td>
<td>1.56</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:912:ILE:O</td>
<td>4:B:938:SER:HB2</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>5:C:186:LEU:HB3</td>
<td>5:C:188:HIS:CD2</td>
<td>2.44</td>
<td>0.52</td>
</tr>
<tr>
<td>5:C:74:SER:CB</td>
<td>5:C:77:ILE:HG13</td>
<td>2.38</td>
<td>0.52</td>
</tr>
<tr>
<td>6:E:15:ALA:O</td>
<td>6:E:19:VAL:HG23</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:1161:HIS:O</td>
<td>4:B:1162:ILE:HG12</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:25:ILE:HG22</td>
<td>4:B:29:ASP:HB2</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:824:ILE:HG12</td>
<td>10:J:48:ARG:HH12</td>
<td>1.74</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:1207:LEU:HD22</td>
<td>3:A:1208:THR:H</td>
<td>1.74</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:15:LYS:HB3</td>
<td>4:B:1220:ARG:HA</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:224:PHE:CD2</td>
<td>3:A:231:PRO:HD3</td>
<td>2.45</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:777:PHE:CD2</td>
<td>3:A:782:ARG:CA</td>
<td>2.93</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:778:MET:HE3</td>
<td>4:B:853:SER:HB2</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>10:J:64:ASN:CB</td>
<td>10:J:65:PRO:CD</td>
<td>2.75</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:244:PRO:CG</td>
<td>3:A:245:PRO:HD2</td>
<td>2.40</td>
<td>0.52</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>4:B:647:GLY:O</td>
<td>4:B:648:HIS:CG</td>
<td>2.63</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:705:MET:H</td>
<td>4:B:710:LEU:CD1</td>
<td>2.22</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:763:GLN:HG2</td>
<td>4:B:765:PRO:HD2</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>6:E:90:VAL:N</td>
<td>6:E:120:ALA:HB2</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:1116:LEU:HD22</td>
<td>3:A:1311:VAL:CG2</td>
<td>2.31</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:595:THR:OG1</td>
<td>3:A:603:ASN:HB3</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:1065:GLN:NE2</td>
<td>4:B:1067:ARG:N</td>
<td>2.56</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:165:VAL:CG1</td>
<td>4:B:166:PHE:N</td>
<td>2.72</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:197:PHE:CG</td>
<td>4:B:817:LEU:HD11</td>
<td>2.45</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:686:ASN:H</td>
<td>4:B:686:ASN:ND2</td>
<td>2.06</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:858:SER:HA</td>
<td>4:B:966:VAL:O</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>11:K:91:CYS:O</td>
<td>11:K:95:ILE:HG13</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:354:SER:HA</td>
<td>3:A:482:PHE:CD2</td>
<td>2.45</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:733:ALA:O</td>
<td>3:A:734:GLU:C</td>
<td>2.45</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:130:VAL:CG1</td>
<td>4:B:132:VAL:CG2</td>
<td>2.88</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:25:ILE:HG22</td>
<td>4:B:26:THR:N</td>
<td>2.23</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:448:ILE:HG22</td>
<td>4:B:450:ALA:H</td>
<td>1.75</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:807:ARG:HH11</td>
<td>4:B:807:ARG:HG3</td>
<td>1.74</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:955:THR:HG23</td>
<td>12:L:54:ARG:C</td>
<td>2.30</td>
<td>0.52</td>
</tr>
<tr>
<td>5:C:181:ASP:CG</td>
<td>5:C:186:LEU:HD13</td>
<td>2.29</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:803:SER:C</td>
<td>3:A:805:LEU:N</td>
<td>2.60</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:364:ILE:O</td>
<td>4:B:365:THR:HB</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:554:ILE:O</td>
<td>4:B:555:ILE:C</td>
<td>2.48</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:782:LEU:O</td>
<td>4:B:783:THR:C</td>
<td>2.47</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:806:THR:CG2</td>
<td>4:B:808:ALA:H</td>
<td>2.21</td>
<td>0.52</td>
</tr>
<tr>
<td>4:B:957:ASN:HB3</td>
<td>4:B:961:LEU:CD1</td>
<td>2.35</td>
<td>0.52</td>
</tr>
<tr>
<td>6:E:157:SER:C</td>
<td>6:E:159:ASP:N</td>
<td>2.61</td>
<td>0.52</td>
</tr>
<tr>
<td>8:H:31:THR:O</td>
<td>8:H:32:THR:HB</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>10:J:28:ASP:OD1</td>
<td>10:J:28:ASP:N</td>
<td>2.43</td>
<td>0.52</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>11:K:83:PRO:O</td>
<td>11:K:86:ALA:HB3</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>3:A:1339:LEU:HD11</td>
<td>6:E:147:HIS:CD2</td>
<td>2.45</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:780:VAL:HG23</td>
<td>4:B:699:GLU:CD</td>
<td>2.29</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1130:PHE:HZ</td>
<td>4:B:1138:MET:HG2</td>
<td>1.75</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:20:ASP:N</td>
<td>4:B:655:LYS:NZ</td>
<td>2.58</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:292:ILE:HD11</td>
<td>4:B:327:ARG:N</td>
<td>2.25</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:313:MET:HE2</td>
<td>4:B:386:LEU:HD22</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:474:SER:HA</td>
<td>4:B:476:ARG:CD</td>
<td>2.40</td>
<td>0.51</td>
</tr>
<tr>
<td>5:C:134:ILE:HD12</td>
<td>5:C:141:GLY:HA2</td>
<td>1.90</td>
<td>0.51</td>
</tr>
<tr>
<td>8:H:11:GLN:HA</td>
<td>8:H:53:ASP:O</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:1029:ARG:O</td>
<td>3:A:1033:GLN:N</td>
<td>2.32</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:1412:ALA:HA</td>
<td>3:A:1417:GLU:OE2</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:804:TYR:HE1</td>
<td>4:B:1021:MET:HE3</td>
<td>1.75</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1084:GLN:HE22</td>
<td>5:C:192:TRP:N</td>
<td>2.05</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1202:LEU:O</td>
<td>4:B:1203:LEU:C</td>
<td>2.48</td>
<td>0.51</td>
</tr>
<tr>
<td>6:E:20:LYS:HE2</td>
<td>6:E:60:PHE:CE1</td>
<td>2.45</td>
<td>0.51</td>
</tr>
<tr>
<td>8:H:102:TYR:HD2</td>
<td>8:H:102:TYR:H</td>
<td>1.55</td>
<td>0.51</td>
</tr>
<tr>
<td>8:H:32:THR:HG22</td>
<td>8:H:33:GLN:N</td>
<td>2.24</td>
<td>0.51</td>
</tr>
<tr>
<td>8:H:42:ILE:HG23</td>
<td>8:H:95:TYR:CE1</td>
<td>2.45</td>
<td>0.51</td>
</tr>
<tr>
<td>11:K:78:THR:HG22</td>
<td>11:K:79:GLU:O</td>
<td>2.10</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>4:B:245:GLU:OE1</td>
<td>4:B:551:PRO:HG2</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:273:LEU:CD2</td>
<td>4:B:360:PHE:HD1</td>
<td>2.24</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:701:ILE:CG1</td>
<td>4:B:740:HIS:HE1</td>
<td>2.24</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:892:LYS:HE2</td>
<td>4:B:904:ARG:O</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>11:K:73:LEU:CD2</td>
<td>11:K:75:ILE:HD11</td>
<td>2.41</td>
<td>0.51</td>
</tr>
<tr>
<td>11:K:97:LYS:O</td>
<td>11:K:100:ALA:HB3</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>1:R:10:A:C8</td>
<td>1:R:10:A:OP2</td>
<td>2.58</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:826:ASP:O</td>
<td>3:A:830:LYS:N</td>
<td>2.39</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:666:ILE:HA</td>
<td>4:B:1026:LEU:CD1</td>
<td>2.41</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1102:LYS:O</td>
<td>4:B:1104:HIS:N</td>
<td>2.40</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:57:TYR:N</td>
<td>4:B:57:TYR:HD1</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:566:LEU:HD11</td>
<td>4:B:586:TRP:CD2</td>
<td>2.44</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:686:ASN:C</td>
<td>4:B:688:GLY:H</td>
<td>2.14</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:816:GLU:C</td>
<td>4:B:818:PRO:HD3</td>
<td>2.30</td>
<td>0.51</td>
</tr>
<tr>
<td>5:C:242:GLN:NE2</td>
<td>5:C:246:ARG:HE</td>
<td>2.02</td>
<td>0.51</td>
</tr>
<tr>
<td>11:K:82:ASP:OD2</td>
<td>11:K:84:LYS:HD2</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:694:THR:HA</td>
<td>3:A:714:PHE:HE1</td>
<td>1.75</td>
<td>0.51</td>
</tr>
<tr>
<td>5:C:116:LYS:O</td>
<td>5:C:116:LYS:HG2</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>5:C:167:HIS:CD2</td>
<td>5:C:168:ALA:H</td>
<td>2.29</td>
<td>0.51</td>
</tr>
<tr>
<td>10:J:3:VAL:HA</td>
<td>10:J:53:HIS:CD2</td>
<td>2.45</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:552:TRP:NE1</td>
<td>3:A:655:PHE:HD1</td>
<td>2.07</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:568:PRO:CB</td>
<td>5:C:221:TYR:HE1</td>
<td>2.22</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1016:ALA:O</td>
<td>4:B:1017:ILE:HD13</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1159:ARG:HE</td>
<td>4:B:1193:GLN:NE2</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1168:LEU:C</td>
<td>4:B:1170:THR:H</td>
<td>2.13</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:516:ASN:H</td>
<td>4:B:516:ASN:HD22</td>
<td>1.58</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:981:ALA:HA</td>
<td>4:B:1092:TYR:CD2</td>
<td>2.45</td>
<td>0.51</td>
</tr>
<tr>
<td>6:E:143:ASN:OD1</td>
<td>6:E:187:TYR:HE1</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:1389:PHE:HE1</td>
<td>3:A:1390:ASN:OD1</td>
<td>1.93</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>3:A:599:SER:C</td>
<td>3:A:601:LYS:N</td>
<td>2.64</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1187:ASN:OD1</td>
<td>4:B:1190:ASP:O</td>
<td>2.29</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1159:ARG:HE</td>
<td>4:B:1193:GLN:HG3</td>
<td>1.75</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1215:ARG:O</td>
<td>4:B:1216:LEU:HD23</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:121:ASN:N</td>
<td>4:B:121:ASN:ND2</td>
<td>2.57</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:471:LYS:CG</td>
<td>4:B:472:ALA:H</td>
<td>1.91</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:653:VAL:O</td>
<td>4:B:654:ARG:HD3</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>5:C:96:SER:O</td>
<td>5:C:97:VAL:HG23</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>8:H:109:LYS:HB3</td>
<td>8:H:110:ASP:OD2</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>8:H:95:TYR:HE2</td>
<td>8:H:97:MET:SD</td>
<td>2.33</td>
<td>0.51</td>
</tr>
<tr>
<td>10:J:18:TRP:CZ2</td>
<td>10:J:22:LEU:HD11</td>
<td>2.46</td>
<td>0.51</td>
</tr>
<tr>
<td>1:R:8:G:H2'</td>
<td>1:R:9:G:H8</td>
<td>1.76</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:672:ASP:CG</td>
<td>3:A:674:PRO:HD2</td>
<td>2.31</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:426:LYS:O</td>
<td>4:B:430:ARG:NH1</td>
<td>2.44</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:413:VAL:CG1</td>
<td>4:B:627:PHE:O</td>
<td>2.57</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:770:GLN:CG</td>
<td>4:B:983:ARG:O</td>
<td>2.58</td>
<td>0.51</td>
</tr>
<tr>
<td>5:C:194:GLU:C</td>
<td>5:C:195:GLN:HG3</td>
<td>2.30</td>
<td>0.51</td>
</tr>
<tr>
<td>5:C:80:LEU:HD11</td>
<td>5:C:95:CY3:C</td>
<td>2.31</td>
<td>0.51</td>
</tr>
<tr>
<td>5:C:98:VAL:C</td>
<td>5:C:99:LEU:CD2</td>
<td>2.77</td>
<td>0.51</td>
</tr>
<tr>
<td>8:H:49:VAL:O</td>
<td>8:H:50:ALA:HB2</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>9:I:33:SER:O</td>
<td>9:I:34:TYR:C</td>
<td>2.48</td>
<td>0.51</td>
</tr>
<tr>
<td>10:J:57:ILE:HG23</td>
<td>10:J:58:GLU:N</td>
<td>2.25</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>3:A:849:MET:HE1</td>
<td>3:A:1061:GLY:CA</td>
<td>2.36</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1056:SER:HB3</td>
<td>4:B:1066:SER:HB2</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:1191:ILE:CG2</td>
<td>4:B:1192:TYR:N</td>
<td>2.74</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:364:ILE:HD13</td>
<td>4:B:585:VAL:HG22</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:34:ILE:HD11</td>
<td>4:B:743:ILE:CG2</td>
<td>2.39</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:933:SER:OG</td>
<td>4:B:934:LYS:N</td>
<td>2.42</td>
<td>0.51</td>
</tr>
<tr>
<td>8:H:115:TYR:HA</td>
<td>8:H:123:MET:O</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>12:L:28:LYS:HB2</td>
<td>12:L:30:SER:HA</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>1:R:4:G:HI</td>
<td>2:T:11:DC:H42</td>
<td>1.59</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:335:ARG:O</td>
<td>3:A:338:GLY:N</td>
<td>2.43</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:609:ASP:O</td>
<td>3:A:611:GLN:HB2</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:742:ASN:CA</td>
<td>3:A:745:GLN:HB2</td>
<td>2.41</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:361:LEU:HD23</td>
<td>4:B:377:PHE:CD2</td>
<td>2.45</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:694:ASP:O</td>
<td>4:B:695:ALA:C</td>
<td>2.50</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:781:PHE:HE2</td>
<td>4:B:793:ALA:HB1</td>
<td>1.75</td>
<td>0.51</td>
</tr>
<tr>
<td>4:B:796:LEU:HB3</td>
<td>4:B:799:PRO:CG</td>
<td>2.41</td>
<td>0.51</td>
</tr>
<tr>
<td>5:C:258:ILE:HG22</td>
<td>5:C:259:LEU:N</td>
<td>2.25</td>
<td>0.51</td>
</tr>
<tr>
<td>7:F:77:ASP:HB3</td>
<td>7:F:78:GLN:HG3</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>11:K:27:ALA:CB</td>
<td>11:K:28:PRO:HD3</td>
<td>2.38</td>
<td>0.51</td>
</tr>
<tr>
<td>3:A:1127:ASP:CB</td>
<td>3:A:1130:GLN:HB3</td>
<td>2.38</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:1197:LEU:HD12</td>
<td>3:A:1209:MET:SD</td>
<td>2.51</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:1402:PHE:CD2</td>
<td>3:A:1403:GLU:N</td>
<td>2.76</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:91:PHE:N</td>
<td>3:A:297:GLN:NE2</td>
<td>2.58</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:947:PHE:CE2</td>
<td>3:A:954:TRP:CE2</td>
<td>2.99</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:1024:ALA:O</td>
<td>4:B:1027:ILE:N</td>
<td>2.44</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:637:LEU:HD23</td>
<td>4:B:742:GLU:OE2</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:864:LYS:HG3</td>
<td>4:B:865:LYS:N</td>
<td>2.25</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:979:LYS:C</td>
<td>4:B:980:PHE:CD1</td>
<td>2.84</td>
<td>0.50</td>
</tr>
<tr>
<td>5:C:40:GLU:OE1</td>
<td>5:C:254:LYS:NZ</td>
<td>2.28</td>
<td>0.50</td>
</tr>
<tr>
<td>5:C:80:LEU:HD12</td>
<td>5:C:94:LYS:O</td>
<td>2.11</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>6:E:147:HIS:HB3</td>
<td>6:E:150:VAL:HG23</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:785:TYR:CE2</td>
<td>10:J:60:PHE:HE1</td>
<td>2.29</td>
<td>0.50</td>
</tr>
<tr>
<td>12:L:25:ALA:O</td>
<td>12:L:26:THR:OG1</td>
<td>2.22</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:110:HIS:NE2</td>
<td>12:L:53:HIS:HE1</td>
<td>2.09</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:1283:VAL:CG1</td>
<td>3:A:1284:MET:N</td>
<td>2.74</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:825:ILE:HD13</td>
<td>4:B:533:CYS:SG</td>
<td>2.52</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:827:ILE:HD12</td>
<td>4:B:1086:PHE:CD2</td>
<td>2.47</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:1170:THR:HG23</td>
<td>4:B:1183:LYS:HZ1</td>
<td>1.75</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:996:ARG:NH2</td>
<td>5:C:38:ILE:CD1</td>
<td>2.70</td>
<td>0.50</td>
</tr>
<tr>
<td>5:C:249:ASP:O</td>
<td>5:C:253:LYS:HG3</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>7:F:136:ARG:HD2</td>
<td>7:F:146:TRP:CD1</td>
<td>2.46</td>
<td>0.50</td>
</tr>
<tr>
<td>8:H:4:THR:CG2</td>
<td>8:H:5:LEU:N</td>
<td>2.73</td>
<td>0.50</td>
</tr>
<tr>
<td>8:H:7:ASP:O</td>
<td>8:H:8:ASP:CB</td>
<td>2.59</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:1025:ARG:HG2</td>
<td>3:A:1025:ARG:NH1</td>
<td>2.02</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:1377:THR:C</td>
<td>3:A:1379:GLY:N</td>
<td>2.64</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:491:VAL:CG1</td>
<td>3:A:492:PRO:HD2</td>
<td>2.42</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:426:LYS:O</td>
<td>4:B:430:ARG:CD</td>
<td>2.60</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:901:PRO:O</td>
<td>4:B:949:VAL:O</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:844:SER:HG</td>
<td>4:B:996:ARG:H</td>
<td>1.57</td>
<td>0.50</td>
</tr>
<tr>
<td>5:C:241:ASP:HB3</td>
<td>11:K:109:TRP:CE2</td>
<td>2.46</td>
<td>0.50</td>
</tr>
<tr>
<td>2:T:4:DA:C2'</td>
<td>2:T:5:DT:C6</td>
<td>2.93</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:870:GLU:HB3</td>
<td>6:E:204:THR:HG21</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:51:PHE:O</td>
<td>4:B:54:PHE:HB3</td>
<td>2.11</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>6:E:89:GLY:O</td>
<td>6:E:91:LYS:N</td>
<td>2.44</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:1171:GLN:O</td>
<td>3:A:1174:PHE:CZ</td>
<td>2.64</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:381:THR:HG23</td>
<td>3:A:382:PRO:HD2</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:528:LEU:HD12</td>
<td>3:A:528:LEU:C</td>
<td>2.31</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:1106:ARG:CG</td>
<td>4:B:1107:ALA:N</td>
<td>2.75</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:236:HIS:NE2</td>
<td>4:B:389:ALA:HA</td>
<td>2.26</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:640:VAL:CG1</td>
<td>4:B:650:GLU:O</td>
<td>2.60</td>
<td>0.50</td>
</tr>
<tr>
<td>5:C:46:ILE:HG23</td>
<td>5:C:157:CYS:HB3</td>
<td>1.92</td>
<td>0.50</td>
</tr>
<tr>
<td>5:C:173:ALA:O</td>
<td>5:C:233:GLU:O</td>
<td>2.28</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:568:PRO:HB3</td>
<td>5:C:221:TYR:CE1</td>
<td>2.46</td>
<td>0.50</td>
</tr>
<tr>
<td>5:C:23:SER:O</td>
<td>5:C:25:VAL:HG22</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>6:E:16:PHE:O</td>
<td>6:E:17:ARG:C</td>
<td>2.49</td>
<td>0.50</td>
</tr>
<tr>
<td>6:E:97:VAL:HG13</td>
<td>6:E:127:ILE:CG2</td>
<td>2.42</td>
<td>0.50</td>
</tr>
<tr>
<td>8:H:15:VAL:CG2</td>
<td>8:H:26:ILE:HD11</td>
<td>2.42</td>
<td>0.50</td>
</tr>
<tr>
<td>11:K:47:ARG:NH1</td>
<td>11:K:47:ARG:CB</td>
<td>2.74</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:1051:THR:HB</td>
<td>4:B:1054:GLY:H</td>
<td>1.75</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:1138:MET:HA</td>
<td>4:B:1138:MET:CE</td>
<td>2.40</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:288:ALA:HB1</td>
<td>4:B:331:LEU:HD13</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>7:F:90:ARG:HG3</td>
<td>7:F:94:LEU:HD12</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>9:I:32:CYS:SG</td>
<td>9:I:34:TYR:N</td>
<td>2.76</td>
<td>0.50</td>
</tr>
<tr>
<td>10:J:31:ASP:O</td>
<td>10:J:33:GLY:N</td>
<td>2.44</td>
<td>0.50</td>
</tr>
<tr>
<td>11:K:61:TYR:HD1</td>
<td>11:K:62:LYS:N</td>
<td>2.10</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:1400:CYS:O</td>
<td>3:A:1402:PHE:N</td>
<td>2.38</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:491:VAL:H</td>
<td>4:B:1150:ARG:NH2</td>
<td>2.09</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:424:LEU:HD12</td>
<td>4:B:448:ILE:HG23</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:465:ASN:O</td>
<td>4:B:467:GLY:N</td>
<td>2.45</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:521:LEU:HD23</td>
<td>4:B:635:ARG:CG</td>
<td>2.38</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:566:LEU:O</td>
<td>4:B:567:GLU:C</td>
<td>2.50</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:724:ASP:C</td>
<td>4:B:724:ASP:OD1</td>
<td>2.50</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>6:E:178:ILE:HD13</td>
<td>6:E:185:ALA:HB2</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>7:F:140:ASP:OD1</td>
<td>7:F:141:GLY:N</td>
<td>2.45</td>
<td>0.50</td>
</tr>
<tr>
<td>8:H:36:CYS:SG</td>
<td>8:H:130:ARG:NH2</td>
<td>2.75</td>
<td>0.50</td>
</tr>
<tr>
<td>9:I:7:CYS:SG</td>
<td>9:I:34:TYR:HB3</td>
<td>2.52</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:830:LYS:CE</td>
<td>3:A:1098:VAL:HG21</td>
<td>2.35</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:89:PRO:C</td>
<td>3:A:90:VAL:HG23</td>
<td>2.33</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:423:LYS:HA</td>
<td>4:B:426:LYS:NZ</td>
<td>2.27</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:627:PHE:O</td>
<td>4:B:632:ARG:NH1</td>
<td>2.43</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:662:MET:C</td>
<td>4:B:664:THR:N</td>
<td>2.63</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:885:MET:HA</td>
<td>4:B:936:ASP:CB</td>
<td>2.42</td>
<td>0.50</td>
</tr>
<tr>
<td>5:C:233:GLU:OE2</td>
<td>10:J:43:ARG:NH2</td>
<td>2.45</td>
<td>0.50</td>
</tr>
<tr>
<td>6:E:147:HIS:O</td>
<td>6:E:148:GLU:C</td>
<td>2.50</td>
<td>0.50</td>
</tr>
<tr>
<td>10:J:36:LEU:CD1</td>
<td>10:J:47:ARG:HG2</td>
<td>2.39</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:608:ILE:C</td>
<td>3:A:609:ASP:O</td>
<td>2.48</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:688:LYS:O</td>
<td>3:A:691:LEU:HB3</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:88:LYS:HD2</td>
<td>3:A:293:GLU:OE2</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:1177:HIS:O</td>
<td>4:B:1178:ASN:C</td>
<td>2.49</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:483:LEU:HG22</td>
<td>4:B:491:THR:HG23</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>4:B:979:LYS:O</td>
<td>4:B:980:PHE:CD1</td>
<td>2.65</td>
<td>0.50</td>
</tr>
<tr>
<td>5:C:27:LEU:O</td>
<td>5:C:30:ALA:N</td>
<td>2.43</td>
<td>0.50</td>
</tr>
<tr>
<td>5:C:41:ILE:O</td>
<td>5:C:41:ILE:HG12</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>5:C:74:SER:CB</td>
<td>5:C:77:ILE:CG1</td>
<td>2.89</td>
<td>0.50</td>
</tr>
<tr>
<td>3:A:1225:PHE:C</td>
<td>3:A:1226:VAL:HG23</td>
<td>2.32</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1389:PHE:O</td>
<td>3:A:1389:PHE:HD1</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:512:VAL:CG1</td>
<td>3:A:512:VAL:O</td>
<td>2.60</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>3:A:786:HIS:HE1</td>
<td>4:B:742:GLU:OE1</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:1106:ARG:NH2</td>
<td>4:B:1109:GLY:H</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:236:HIS:C</td>
<td>4:B:237:VAL:HG23</td>
<td>2.33</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:355:ILE:HG22</td>
<td>4:B:356:LEU:HD23</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:374:LYS:O</td>
<td>4:B:375:ALA:C</td>
<td>2.50</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:377:PHE:O</td>
<td>4:B:380:TYR:HB3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:430:ARG:O</td>
<td>4:B:431:TYR:O</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>5:C:141:GLY:O</td>
<td>5:C:142:VAL:O</td>
<td>2.29</td>
<td>0.49</td>
</tr>
<tr>
<td>11:K:18:LYS:HE3</td>
<td>11:K:38:GLU:OE2</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1098:VAL:N</td>
<td>3:A:1099:PRO:HD2</td>
<td>2.27</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1410:PHE:O</td>
<td>3:A:1411:GLU:C</td>
<td>2.50</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:244:PRO:O</td>
<td>3:A:246:VAL:N</td>
<td>2.45</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:568:PRO:O</td>
<td>5:C:221:TYR:CE1</td>
<td>2.64</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:1023:VAL:O</td>
<td>4:B:1027:ILE:HG13</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:493:GLN:H</td>
<td>4:B:1149:GLU:CD</td>
<td>2.16</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:487:THR:HG22</td>
<td>4:B:489:SER:N</td>
<td>2.27</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:525:ALA:O</td>
<td>4:B:527:THR:HG22</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:614:SER:HB3</td>
<td>4:B:694:ASP:OD1</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:882:THR:HG23</td>
<td>4:B:882:THR:O</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>6:E:173:SER:HB2</td>
<td>6:E:177:ARG:NH2</td>
<td>2.27</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1444:MET:N</td>
<td>7:F:133:VAL:O</td>
<td>2.45</td>
<td>0.49</td>
</tr>
<tr>
<td>10:J:1:MET:H1</td>
<td>10:J:57:ILE:N</td>
<td>2.10</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:399:HIS:CB</td>
<td>3:A:400:PRO:CD</td>
<td>2.90</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:904:THR:CG2</td>
<td>3:A:905:ASP:N</td>
<td>2.75</td>
<td>0.49</td>
</tr>
<tr>
<td>5:C:38:ILE:HG12</td>
<td>5:C:176:ILE:HD12</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>6:E:9:ILE:O</td>
<td>6:E:10:SER:C</td>
<td>2.50</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>3:A:1402:PHE:CG</td>
<td>3:A:1403:GLU:N</td>
<td>2.79</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:291:ILE:HD12</td>
<td>4:B:291:ILE:H</td>
<td>1.78</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:34:ILE:O</td>
<td>4:B:35:SER:C</td>
<td>2.50</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1339:LEU:HD13</td>
<td>6:E:147:HIS:CD2</td>
<td>2.43</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:261:ASP:HB2</td>
<td>3:A:323:LYS:HB3</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:343:LYS:HE3</td>
<td>4:B:1151:LEU:O</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:236:HIS:CD2</td>
<td>4:B:389:ALA:HA</td>
<td>2.48</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:750:GLY:O</td>
<td>4:B:751:VAL:C</td>
<td>2.51</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:759:PRO:HD2</td>
<td>4:B:767:ASN:HD2</td>
<td>1.76</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:785:TYR:CD1</td>
<td>4:B:786:ASN:N</td>
<td>2.81</td>
<td>0.49</td>
</tr>
<tr>
<td>5:C:193:TYR:N</td>
<td>5:C:193:TYR:HD2</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1007:ILE:O</td>
<td>3:A:1010:ALA:CB</td>
<td>2.60</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:381:THR:HG23</td>
<td>3:A:382:PRO:HG2</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:978:ASP:OD1</td>
<td>4:B:1098:MET:HB3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:124:TYR:CB</td>
<td>4:B:204:ILE:HD13</td>
<td>2.42</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:871:THR:O</td>
<td>4:B:872:GLU:O</td>
<td>2.31</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:896:ARG:HB3</td>
<td>3:A:897:TYR:HD1</td>
<td>1.78</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:927:VAL:HG12</td>
<td>3:A:928:LEU:N</td>
<td>2.28</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:818:MET:HG3</td>
<td>4:B:514:LEU:HD23</td>
<td>1.94</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>5:C:191:TYR:N</td>
<td>5:C:191:TYR:HD1</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:568:PRO:O</td>
<td>5:C:221:TYR:HE1</td>
<td>1.96</td>
<td>0.49</td>
</tr>
<tr>
<td>9:I:32:CYS:SG</td>
<td>9:I:33:SER:N</td>
<td>2.82</td>
<td>0.49</td>
</tr>
<tr>
<td>11:K:9:LEU:HD23</td>
<td>11:K:9:LEU:N</td>
<td>2.27</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1166:ASP:OD1</td>
<td>3:A:1194:ARG:NH2</td>
<td>2.41</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1116:LEU:CD1</td>
<td>3:A:1329:THR:OG1</td>
<td>2.60</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:902:LEU:HG</td>
<td>3:A:926:GLN:HG3</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:452:LYS:CB</td>
<td>4:B:1141:HIS:HE1</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:1158:PHE:CD2</td>
<td>4:B:1198:TYR:HD1</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:173:MET:N</td>
<td>4:B:203:PHE:HE2</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>6:E:114:ASN:O</td>
<td>6:E:115:ASN:CB</td>
<td>2.61</td>
<td>0.49</td>
</tr>
<tr>
<td>8:H:131:ASN:C</td>
<td>8:H:133:ASN:N</td>
<td>2.66</td>
<td>0.49</td>
</tr>
<tr>
<td>11:K:53:ASP:OD1</td>
<td>11:K:56:VAL:CG2</td>
<td>2.61</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1225:PHE:C</td>
<td>3:A:1226:VAL:CG2</td>
<td>2.81</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:452:LYS:CB</td>
<td>4:B:1141:HIS:CE1</td>
<td>2.82</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:515:HIS:CD2</td>
<td>4:B:517:THR:H</td>
<td>2.31</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:614:SER:OG</td>
<td>4:B:627:PHE:HB2</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:826:ALA:HB2</td>
<td>4:B:1087:PHE:CD1</td>
<td>2.48</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:842:ASN:HB3</td>
<td>4:B:845:SER:OG</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>5:C:100:THR:HB</td>
<td>5:C:119:VAL:HG12</td>
<td>1.93</td>
<td>0.49</td>
</tr>
<tr>
<td>5:C:41:ILE:CD1</td>
<td>5:C:172:PRO:HG3</td>
<td>2.41</td>
<td>0.49</td>
</tr>
<tr>
<td>6:E:121:MET:C</td>
<td>6:E:123:LEU:N</td>
<td>2.64</td>
<td>0.49</td>
</tr>
<tr>
<td>6:E:64:PRO:HG2</td>
<td>6:E:76:GLY:CA</td>
<td>2.37</td>
<td>0.49</td>
</tr>
<tr>
<td>1:R:10:A:O3'</td>
<td>3:A:485:ASP:OD1</td>
<td>2.31</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>3:A:1076:ALA:HA</td>
<td>3:A:1079:MET:HE3</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1116:LEU:HB2</td>
<td>3:A:1308:THR:CB</td>
<td>2.43</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1265:ASN:O</td>
<td>3:A:1268:LEU:N</td>
<td>2.46</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:567:LYS:HB2</td>
<td>3:A:95:TYR:HA</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:1084:GLN:NE2</td>
<td>5:C:191:TYR:C</td>
<td>2.66</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:224:GLN:O</td>
<td>4:B:238:ALA:HA</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:317:CYS:O</td>
<td>4:B:319:GLU:N</td>
<td>2.46</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:563:MET:O</td>
<td>4:B:563:MET:CG</td>
<td>2.45</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:736:THR:O</td>
<td>4:B:736:THR:CG2</td>
<td>2.51</td>
<td>0.49</td>
</tr>
<tr>
<td>4:B:841:MET:O</td>
<td>4:B:993:THR:HA</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>5:C:37:MET:HG2</td>
<td>5:C:243:VAL:HG12</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>5:C:62:PHE:HD2</td>
<td>5:C:62:PHE:O</td>
<td>1.96</td>
<td>0.49</td>
</tr>
<tr>
<td>7:F:74:ILE:HG23</td>
<td>7:F:75:PRO:HD2</td>
<td>1.93</td>
<td>0.49</td>
</tr>
<tr>
<td>3:A:1261:LYS:C</td>
<td>3:A:1263:ILE:N</td>
<td>2.63</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:1348:LEU:HD21</td>
<td>3:A:1375:MET:SD</td>
<td>2.53</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:139:TRP:C</td>
<td>3:A:141:LEU:N</td>
<td>2.63</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:538:ASP:OD1</td>
<td>8:H:22:LYS:HB2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:1096:ARG:O</td>
<td>4:B:1097:HIS:CB</td>
<td>2.60</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:1147:LEU:CD2</td>
<td>4:B:1151:LEU:HD22</td>
<td>2.42</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:1219:ASP:C</td>
<td>4:B:1221:SER:N</td>
<td>2.64</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:291:ILE:HG21</td>
<td>4:B:297:ILE:HD13</td>
<td>1.94</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:352:ALA:O</td>
<td>4:B:354:ASP:N</td>
<td>2.46</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:51:PHE:O</td>
<td>4:B:54:PHE:N</td>
<td>2.42</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:780:VAL:CG1</td>
<td>4:B:817:LEU:HD23</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:917:PRO:C</td>
<td>4:B:918:ILE:HD13</td>
<td>2.33</td>
<td>0.48</td>
</tr>
<tr>
<td>11:K:47:ARG:NH1</td>
<td>11:K:48:ALA:N</td>
<td>2.61</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:107:CYS:N</td>
<td>3:A:114:LEU:CD2</td>
<td>2.75</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:1141:THR:CG2</td>
<td>3:A:1205:LYS:HD2</td>
<td>2.43</td>
<td>0.48</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:839:MET:CG</td>
<td>4:B:1010:LEU:HD11</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:1031:LEU:HD13</td>
<td>4:B:1055:ILE:HD12</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:660:LYS:O</td>
<td>4:B:663:ALA:HB3</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:843:GLN:O</td>
<td>4:B:843:GLN:HG3</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>5:C:36:VAL:O</td>
<td>5:C:37:MET:C</td>
<td>2.51</td>
<td>0.48</td>
</tr>
<tr>
<td>7:F:136:ARG:O</td>
<td>7:F:143:PHE:HB2</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>8:H:109:LYS:C</td>
<td>8:H:111:LEU:H</td>
<td>2.16</td>
<td>0.48</td>
</tr>
<tr>
<td>8:H:5:LEU:CD2</td>
<td>8:H:133:ASN:O</td>
<td>2.58</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:1109:LYS:O</td>
<td>3:A:1111:MET:N</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:115:LEU:HB2</td>
<td>3:A:122:MET:HE2</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:1441:PHE:CE1</td>
<td>7:F:89:GLU:HA</td>
<td>2.49</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:322:VAL:O</td>
<td>3:A:323:LYS:CB</td>
<td>2.60</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:809:THR:CB</td>
<td>3:A:810:PRO:CD</td>
<td>2.91</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:461:LEU:HD12</td>
<td>4:B:466:TRP:HZ3</td>
<td>1.77</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:640:VAL:HG12</td>
<td>4:B:650:GLU:O</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:654:ARG:C</td>
<td>4:B:656:GLY:N</td>
<td>2.65</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:847:ASP:OD2</td>
<td>11:K:6:ARG:NH2</td>
<td>2.40</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:861:ASP:OD1</td>
<td>4:B:914:LYS:NZ</td>
<td>2.41</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:976:ILE:HD11</td>
<td>4:B:992:ILE:CD1</td>
<td>2.42</td>
<td>0.48</td>
</tr>
<tr>
<td>8:H:76:THR:HG2</td>
<td>8:H:77:ARG:NH2</td>
<td>2.27</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:293:PRO:HA</td>
<td>9:I:12:ASN:HD21</td>
<td>1.78</td>
<td>0.48</td>
</tr>
<tr>
<td>10:J:1:MET:H</td>
<td>10:J:57:ILE:H</td>
<td>1.61</td>
<td>0.48</td>
</tr>
<tr>
<td>10:J:59:LYS:O</td>
<td>10:J:62:ARG:CB</td>
<td>2.60</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:706:HIS:NE2</td>
<td>3:A:1139:GLU:OE2</td>
<td>2.45</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:241:VAL:HG13</td>
<td>3:A:266:LEU:CD1</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:1138:MET:HA</td>
<td>4:B:1138:MET:HE3</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:179:CYS:O</td>
<td>4:B:181:LEU:N</td>
<td>2.47</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:195:CYS:SG</td>
<td>4:B:196:PRO:HD2</td>
<td>2.54</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:300:HIS:CE1</td>
<td>4:B:376:PHE:CZ</td>
<td>3.01</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:628:THR:CG2</td>
<td>4:B:628:THR:O</td>
<td>2.60</td>
<td>0.48</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>4:B:34:ILE:CD1</td>
<td>4:B:743:ILE:CG2</td>
<td>2.91</td>
<td>0.48</td>
</tr>
<tr>
<td>6:E:59:SER:CB</td>
<td>6:E:81:GLU:HA</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>10:J:3:VAL:CG2</td>
<td>10:J:18:TRP:CG</td>
<td>2.96</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:1041:ALA:O</td>
<td>3:A:1042:PHE:C</td>
<td>2.52</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:44:THR:O</td>
<td>3:A:45:GLN:HB2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:492:PRO:CB</td>
<td>3:A:497:THR:HG22</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:68:GLN:NE2</td>
<td>3:A:70:CYS:CB</td>
<td>2.76</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:947:PHE:CD2</td>
<td>3:A:954:TRP:CZ2</td>
<td>3.01</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:1033:LYS:HE3</td>
<td>4:B:1087:PHE:O</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:230:ALA:O</td>
<td>4:B:232:SER:N</td>
<td>2.44</td>
<td>0.48</td>
</tr>
<tr>
<td>5:C:227:THR:C</td>
<td>5:C:228:PHE:CD1</td>
<td>2.86</td>
<td>0.48</td>
</tr>
<tr>
<td>8:H:40:LEU:HD13</td>
<td>8:H:123:MET:CE</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>8:H:138:GLU:O</td>
<td>8:H:139:ASN:O</td>
<td>2.31</td>
<td>0.48</td>
</tr>
<tr>
<td>11:K:29:ASN:ND2</td>
<td>11:K:78:THR:O</td>
<td>2.46</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:1313:LEU:O</td>
<td>3:A:1314:SER:C</td>
<td>2.52</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:783:THR:HB</td>
<td>3:A:787:PHE:HD1</td>
<td>1.78</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:170:LEU:HD13</td>
<td>4:B:457:LEU:HD13</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:124:TYR:HB3</td>
<td>4:B:204:ILE:HD13</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:653:VAL:O</td>
<td>4:B:654:ARG:HG2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:796:LEU:CB</td>
<td>4:B:799:PRO:HD3</td>
<td>2.32</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:864:LYS:N</td>
<td>4:B:872:GLU:OE1</td>
<td>2.40</td>
<td>0.48</td>
</tr>
<tr>
<td>6:E:42:PHE:HZ</td>
<td>6:E:58:MET:HE1</td>
<td>1.78</td>
<td>0.48</td>
</tr>
<tr>
<td>7:F:99:LEU:C</td>
<td>7:F:99:LEU:CD1</td>
<td>2.82</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:190:TYR:CZ</td>
<td>10:J:62:ARG:HG2</td>
<td>2.48</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:114:LEU:HG</td>
<td>3:A:114:LEU:H</td>
<td>1.48</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:396:PRO:C</td>
<td>3:A:397:ASN:CG</td>
<td>2.73</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>3:A:549:MET:O</td>
<td>3:A:550:LEU:C</td>
<td>2.50</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:555:ASP:O</td>
<td>3:A:556:TRP:C</td>
<td>2.50</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:928:LEU:O</td>
<td>3:A:929:LEU:C</td>
<td>2.52</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:118:ARG:NH2</td>
<td>4:B:194:GLU:OE1</td>
<td>2.47</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:234:ILE:HA</td>
<td>4:B:259:TYR:HA</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:463:THR:HG21</td>
<td>4:B:465:ASN:ND2</td>
<td>2.28</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:652:LYS:O</td>
<td>4:B:653:VAL:O</td>
<td>2.31</td>
<td>0.48</td>
</tr>
<tr>
<td>8:H:93:TYR:CD1</td>
<td>8:H:143:LEU:HB3</td>
<td>2.48</td>
<td>0.48</td>
</tr>
<tr>
<td>12:L:60:ARG:HG3</td>
<td>12:L:61:THR:O</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:419:LYS:HB3</td>
<td>3:A:419:LYS:HZ2</td>
<td>1.79</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:901:LEU:H</td>
<td>3:A:926:GLN:CG</td>
<td>2.27</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:1081:LEU:HA</td>
<td>4:B:1081:LEU:HD23</td>
<td>1.75</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:1156:MET:O</td>
<td>4:B:1156:ASP:O</td>
<td>2.31</td>
<td>0.48</td>
</tr>
<tr>
<td>5:C:164:ALA:O</td>
<td>5:C:166:GLU:N</td>
<td>2.47</td>
<td>0.48</td>
</tr>
<tr>
<td>6:E:100:ILE:HD11</td>
<td>6:E:108:GLY:HA2</td>
<td>1.94</td>
<td>0.48</td>
</tr>
<tr>
<td>6:E:183:ASP:HA</td>
<td>6:E:183:PRO:HD2</td>
<td>1.57</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:1254:ALA:O</td>
<td>3:A:1255:GLU:CB</td>
<td>2.60</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:399:HIS:O</td>
<td>3:A:401:GLY:N</td>
<td>2.41</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:76:GLU:O</td>
<td>3:A:76:GLU:CG</td>
<td>2.61</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:1006:ILE:HG22</td>
<td>4:B:1007:VAL:N</td>
<td>2.28</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:1076:HIS:CE1</td>
<td>11:K:40:HIS:CD2</td>
<td>3.02</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:431:TYR:CG</td>
<td>4:B:447:ALA:HB1</td>
<td>2.49</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:780:VAL:HG12</td>
<td>4:B:817:LEU:CD2</td>
<td>2.44</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:826:ALA:O</td>
<td>4:B:1011:ILE:HG23</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>5:C:104:PHE:HB2</td>
<td>5:C:152:GLU:HG2</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>5:C:49:VAL:HG12</td>
<td>5:C:155:LEU:HD22</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>6:E:178:ILE:HD11</td>
<td>6:E:185:ALA:HB2</td>
<td>1.95</td>
<td>0.48</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:E:36:GLU:O</td>
<td>6:E:38:PRO:CD</td>
<td>2.62</td>
<td>0.48</td>
</tr>
<tr>
<td>6:E:78:LEU:HG</td>
<td>6:E:79:TRP:N</td>
<td>2.28</td>
<td>0.48</td>
</tr>
<tr>
<td>7:F:75:PRO:O</td>
<td>7:F:77:ASP:N</td>
<td>2.47</td>
<td>0.48</td>
</tr>
<tr>
<td>7:F:95:GLY:O</td>
<td>7:F:98:ALA:HB3</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:567:LYS:HD3</td>
<td>8:H:95:TYR:HA</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:104:ALA:O</td>
<td>3:A:1044:TRP:CB</td>
<td>2.60</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:120:ALA:C</td>
<td>3:A:1202:MET:N</td>
<td>2.66</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:583:PRO:O</td>
<td>3:A:610:GLY:CA</td>
<td>2.54</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:70:CYC:C</td>
<td>3:A:71:GLN:CG</td>
<td>2.82</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:947:PHE:CE2</td>
<td>3:A:954:TRP:CD2</td>
<td>3.02</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:1013:ASN:OD1</td>
<td>4:B:1015:HIS:HB2</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:12:ARG:CB</td>
<td>4:B:1218:THR:CG2</td>
<td>2.92</td>
<td>0.48</td>
</tr>
<tr>
<td>4:B:129:PHE:CD2</td>
<td>4:B:166:PHE:CB</td>
<td>2.89</td>
<td>0.48</td>
</tr>
<tr>
<td>5:C:194:GLU:HB2</td>
<td>5:C:200:GLU:OE2</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>2:T:1:DA:C2</td>
<td>2:T:2:DC:H5</td>
<td>2.32</td>
<td>0.48</td>
</tr>
<tr>
<td>3:A:914:GLU:C</td>
<td>3:A:916:GLY:N</td>
<td>2.66</td>
<td>0.47</td>
</tr>
<tr>
<td>3:A:351:THR:HG23</td>
<td>4:B:1103:ILE:HG23</td>
<td>1.94</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:1159:ARG:HH21</td>
<td>4:B:1193:GLN:NE2</td>
<td>2.12</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:63:ILE:HD12</td>
<td>4:B:95:ILE:HD12</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>5:C:135:GLN:C</td>
<td>5:C:136:ASP:O</td>
<td>2.48</td>
<td>0.47</td>
</tr>
<tr>
<td>7:F:125:LEU:HB2</td>
<td>7:F:130:ILE:CD1</td>
<td>2.41</td>
<td>0.47</td>
</tr>
<tr>
<td>8:H:12:VAL:HG13</td>
<td>8:H:26:ILE:CG2</td>
<td>2.44</td>
<td>0.47</td>
</tr>
<tr>
<td>10:J:57:ILE:CG2</td>
<td>10:J:58:GLU:N</td>
<td>2.77</td>
<td>0.47</td>
</tr>
<tr>
<td>11:K:94:ILE:HD12</td>
<td>11:K:94:ILE:N</td>
<td>2.27</td>
<td>0.47</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:1077:THR:CG2</td>
<td>4:B:1079:LYS:CB</td>
<td>2.92</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:128:LEU:HD12</td>
<td>4:B:128:LEU:HA</td>
<td>1.50</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:186:GLU:O</td>
<td>4:B:189:LEU:HB2</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>5:C:33:LEU:HD12</td>
<td>5:C:37:MET:HE2</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>8:H:135:LEU:CD2</td>
<td>8:H:136:LYS:HD2</td>
<td>2.43</td>
<td>0.47</td>
</tr>
<tr>
<td>9:I:34:TYR:O</td>
<td>9:I:35:VAL:HG23</td>
<td>2.13</td>
<td>0.47</td>
</tr>
<tr>
<td>2:T:1:DA:C2</td>
<td>2:T:2:DC:C5</td>
<td>3.01</td>
<td>0.47</td>
</tr>
<tr>
<td>3:A:244:PRO:CB</td>
<td>3:A:245:PRO:CD</td>
<td>2.92</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:174:LEU:O</td>
<td>4:B:175:ARG:CB</td>
<td>2.62</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:254:LEU:HD22</td>
<td>4:B:361:LEU:CD1</td>
<td>2.27</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:364:ILE:O</td>
<td>4:B:365:THR:CB</td>
<td>2.62</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:803:LEU:N</td>
<td>4:B:822:ASN:HD21</td>
<td>2.13</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:976:ILE:HA</td>
<td>4:B:990:ILE:CG2</td>
<td>2.45</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:995:ARG:CZ</td>
<td>4:B:995:ARG:HB2</td>
<td>2.44</td>
<td>0.47</td>
</tr>
<tr>
<td>5:C:191:TYR:CD1</td>
<td>5:C:191:TYR:N</td>
<td>2.80</td>
<td>0.47</td>
</tr>
<tr>
<td>5:C:29:MET:HB2</td>
<td>11:K:45:LEU:CD1</td>
<td>2.44</td>
<td>0.47</td>
</tr>
<tr>
<td>6:E:136:ASN:OD1</td>
<td>6:E:137:GLU:N</td>
<td>2.46</td>
<td>0.47</td>
</tr>
<tr>
<td>1:R:5:A:H2'</td>
<td>1:R:6:G:H8</td>
<td>1.79</td>
<td>0.47</td>
</tr>
<tr>
<td>3:A:785:PRO:HB2</td>
<td>4:B:701:ILE:CD1</td>
<td>2.40</td>
<td>0.47</td>
</tr>
<tr>
<td>3:A:900:ASP:CA</td>
<td>3:A:926:GLN:NE2</td>
<td>2.77</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:1168:LEU:HB3</td>
<td>4:B:1170:THR:OG1</td>
<td>2.15</td>
<td>0.47</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:1183:LYS:O</td>
<td>4:B:1185:CYS:N</td>
<td>2.47</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:1159:ARG:HE</td>
<td>4:B:1193:GLN:CG</td>
<td>2.26</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:121:ASN:O</td>
<td>4:B:206:ASN:HA</td>
<td>2.13</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:879:ARG:HB3</td>
<td>4:B:883:LEU:HD22</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:917:PRO:O</td>
<td>4:B:918:ILE:HD13</td>
<td>2.13</td>
<td>0.47</td>
</tr>
<tr>
<td>3:A:874:ASP:C</td>
<td>3:A:874:ASP:OD1</td>
<td>2.53</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:1203:LEU:HD12</td>
<td>4:B:1203:LEU:O</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:294:ASP:N</td>
<td>9:I:12:ASN:ND2</td>
<td>2.63</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:660:LYS:HE2</td>
<td>4:B:679:TYR:CE2</td>
<td>2.50</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:816:GLU:OE1</td>
<td>4:B:816:GLU:N</td>
<td>2.48</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:98:THR:OG1</td>
<td>4:B:127:GLY:HA3</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>6:E:188:LEU:HB2</td>
<td>6:E:190:LEU:HD21</td>
<td>1.95</td>
<td>0.47</td>
</tr>
<tr>
<td>8:H:77:ARG:HB2</td>
<td>8:H:77:ARG:NH1</td>
<td>2.28</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:298:LEU:H</td>
<td>4:B:298:LEU:HD23</td>
<td>1.78</td>
<td>0.47</td>
</tr>
<tr>
<td>5:C:119:VAL:O</td>
<td>5:C:119:VAL:HG12</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>6:E:204:THR:HG22</td>
<td>6:E:205:SER:H</td>
<td>1.78</td>
<td>0.47</td>
</tr>
<tr>
<td>3:A:100:LYS:NZ</td>
<td>3:A:100:LYS:CB</td>
<td>2.78</td>
<td>0.47</td>
</tr>
<tr>
<td>3:A:570:PRO:O</td>
<td>3:A:572:TRP:CZ3</td>
<td>2.67</td>
<td>0.47</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:T:4:DA:C5</td>
<td>3:A:831:THR:HG21</td>
<td>2.50</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:198:ASP:OD1</td>
<td>4:B:485:ARG:NH2</td>
<td>2.45</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:324:ILE:HG22</td>
<td>4:B:324:ILE:O</td>
<td>2.12</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:446:ILE:O</td>
<td>4:B:447:ALA:CB</td>
<td>2.60</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:45:SER:O</td>
<td>4:B:46:GLN:C</td>
<td>2.52</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:562:GLY:O</td>
<td>4:B:563:MET:C</td>
<td>2.53</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:653:VAL:O</td>
<td>4:B:654:ARG:CG</td>
<td>2.63</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:760:ASP:C</td>
<td>4:B:762:ASN:H</td>
<td>2.16</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:794:ASN:ND2</td>
<td>4:B:794:ASN:N</td>
<td>2.54</td>
<td>0.47</td>
</tr>
<tr>
<td>8:H:47:PHE:O</td>
<td>8:H:47:PHE:CG</td>
<td>2.67</td>
<td>0.47</td>
</tr>
<tr>
<td>1:R:9:G:O4'</td>
<td>4:B:1097:HIS:CE1</td>
<td>2.68</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:1029:CYS:O</td>
<td>4:B:1030:LEU:C</td>
<td>2.53</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:1065:GLN:O</td>
<td>4:B:1065:GLN:HG3</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:174:LEU:O</td>
<td>4:B:175:ARG:HB2</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:202:TYR:N</td>
<td>4:B:202:TYR:CD2</td>
<td>2.82</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:204:ILE:N</td>
<td>4:B:204:ILE:HD12</td>
<td>2.30</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:291:ILE:CG2</td>
<td>4:B:297:ILE:CD1</td>
<td>2.90</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:579:ARG:HB2</td>
<td>4:B:586:TRP:NE1</td>
<td>2.29</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:384:ARG:HH22</td>
<td>4:B:621:GLU:HG3</td>
<td>1.79</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:830:TYR:HB3</td>
<td>4:B:831:SER:H</td>
<td>1.46</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:890:TYR:CE2</td>
<td>4:B:910:VAL:HG21</td>
<td>2.50</td>
<td>0.47</td>
</tr>
<tr>
<td>5:C:11:ARG:HE</td>
<td>5:C:21:ILE:CD1</td>
<td>2.26</td>
<td>0.47</td>
</tr>
<tr>
<td>5:C:18:VAL:O</td>
<td>5:C:231:ASN:HA</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>5:C:57:VAL:CG1</td>
<td>10:J:60:PHE:CB</td>
<td>2.82</td>
<td>0.47</td>
</tr>
<tr>
<td>1:R:5:A:C2</td>
<td>1:R:6:G:C5</td>
<td>3.03</td>
<td>0.47</td>
</tr>
<tr>
<td>3:A:518:LYS:CB</td>
<td>3:A:519:PRO:HD2</td>
<td>2.45</td>
<td>0.47</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:1051:THR:HG2</td>
<td>4:B:1052:VAL:N</td>
<td>2.29</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:128:LEU:CB</td>
<td>4:B:167:ILE:O</td>
<td>2.61</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:174:LEU:CD1</td>
<td>4:B:179:CYS:HG</td>
<td>2.27</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:363:HIS:N</td>
<td>4:B:363:HIS:ND1</td>
<td>2.63</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:474:SER:CA</td>
<td>4:B:476:ARG:CG</td>
<td>2.82</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:34:ILE:CD1</td>
<td>4:B:542:MET:HE1</td>
<td>2.43</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:648:HIS:CD2</td>
<td>4:B:648:HIS:C</td>
<td>2.88</td>
<td>0.47</td>
</tr>
<tr>
<td>5:C:17:ASN:OD1</td>
<td>5:C:233:GLU:HG2</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>5:C:44:LEU:HD22</td>
<td>5:C:129:ILE:HG13</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>8:H:112:ILE:HG23</td>
<td>8:H:113:ALA:N</td>
<td>2.30</td>
<td>0.47</td>
</tr>
<tr>
<td>11:K:24:ASP:CG</td>
<td>11:K:74:ARG:HH11</td>
<td>2.18</td>
<td>0.47</td>
</tr>
<tr>
<td>3:A:1192:LEU:CD2</td>
<td>3:A:1239:ARG:NH2</td>
<td>2.76</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:1106:ARG:NH2</td>
<td>4:B:1109:GLY:CA</td>
<td>2.78</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:1165:ILE:CG2</td>
<td>4:B:1166:CYS:H</td>
<td>2.20</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:1191:ILE:C</td>
<td>4:B:1192:TYR:CD1</td>
<td>2.89</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:173:MET:N</td>
<td>4:B:203:PHE:CE2</td>
<td>2.82</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:286:PHE:O</td>
<td>4:B:291:ILE:O</td>
<td>2.33</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:216:GLU:OE1</td>
<td>4:B:500:THR:OG1</td>
<td>2.33</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:530:GLY:O</td>
<td>4:B:533:CYS:HB2</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:951:GLN:CG</td>
<td>12:L:57:LEU:HD22</td>
<td>2.45</td>
<td>0.47</td>
</tr>
<tr>
<td>6:E:164:LEU:HD13</td>
<td>6:E:211:TYR:HE2</td>
<td>1.74</td>
<td>0.47</td>
</tr>
<tr>
<td>6:E:12:LEU:HB2</td>
<td>6:E:55:ARG:NH2</td>
<td>2.29</td>
<td>0.47</td>
</tr>
<tr>
<td>8:H:42:ILE:O</td>
<td>8:H:44:VAL:N</td>
<td>2.48</td>
<td>0.47</td>
</tr>
<tr>
<td>8:H:44:VAL:O</td>
<td>8:H:44:VAL:CG1</td>
<td>2.62</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:393:LYS:NZ</td>
<td>9:I:89:GLN:HB3</td>
<td>2.30</td>
<td>0.47</td>
</tr>
<tr>
<td>10:J:5:VAL:O</td>
<td>10:J:6:ARG:O</td>
<td>2.32</td>
<td>0.47</td>
</tr>
<tr>
<td>2:T:6:DC:C4</td>
<td>2:T:7:DC:C5</td>
<td>3.03</td>
<td>0.47</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:A:505:CYS:SG</td>
<td>4:B:1141:HIS:CD2</td>
<td>3.06</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:1072:MET:HE3</td>
<td>4:B:1085:ILE:CG2</td>
<td>2.39</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:224:GLN:O</td>
<td>4:B:239:GLU:N</td>
<td>2.47</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:236:HIS:O</td>
<td>4:B:237:VAL:CG2</td>
<td>2.64</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:332:ASP:C</td>
<td>4:B:334:ILE:H</td>
<td>2.16</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:515:HIS:CD2</td>
<td>4:B:517:THR:OG1</td>
<td>2.66</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:662:MET:O</td>
<td>4:B:663:ALA:C</td>
<td>2.53</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:666:TYR:C</td>
<td>4:B:668:ASP:H</td>
<td>2.17</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:640:VAL:HG23</td>
<td>4:B:739:THR:C</td>
<td>2.35</td>
<td>0.47</td>
</tr>
<tr>
<td>4:B:778:MET:HB3</td>
<td>4:B:796:LEU:HD13</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>5:C:253:LYS:O</td>
<td>5:C:256:ALA:HB3</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>8:H:11:GLN:HG3</td>
<td>8:H:53:ASP:O</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>3:A:1227:ILE:CG2</td>
<td>3:A:1228:TRP:N</td>
<td>2.77</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:1034:VAL:O</td>
<td>4:B:1037:LEU:HB2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:827:ILE:O</td>
<td>4:B:828:ALA:CB</td>
<td>2.63</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:956:THR:HA</td>
<td>4:B:963:PHE:HB2</td>
<td>1.96</td>
<td>0.46</td>
</tr>
<tr>
<td>5:C:162:GLY:HA3</td>
<td>5:C:170:TRP:CD2</td>
<td>2.51</td>
<td>0.46</td>
</tr>
<tr>
<td>5:C:181:ASP:OD2</td>
<td>5:C:186:LEU:HD13</td>
<td>2.14</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:1422:ARG:NH2</td>
<td>4:B:1220:ARG:HD2</td>
<td>2.28</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:68:GLN:HE22</td>
<td>3:A:70:CYS:CB</td>
<td>2.27</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:928:LEU:HA</td>
<td>3:A:928:LEU:HD23</td>
<td>1.56</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:92:HIS:C</td>
<td>3:A:92:HIS:CD2</td>
<td>2.88</td>
<td>0.46</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>4:B:101:MET:C</td>
<td>4:B:102:VAL:CG2</td>
<td>2.83</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:199:MET:N</td>
<td>4:B:199:MET:SD</td>
<td>2.78</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:202:TYR:CD1</td>
<td>4:B:209:GLU:HB3</td>
<td>2.51</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:38:PHE:CE2</td>
<td>4:B:43:LEU:HD21</td>
<td>2.51</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:469:GLN:O</td>
<td>4:B:470:LYS:C</td>
<td>2.53</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:486:TYR:HE2</td>
<td>4:B:778:MET:HG3</td>
<td>1.81</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:793:ALA:C</td>
<td>4:B:794:ASN:HD22</td>
<td>2.18</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:911:ILE:LEU</td>
<td>4:B:941:LEU:HD23</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:983:ARG:C</td>
<td>4:B:984:HIS:ND1</td>
<td>2.68</td>
<td>0.46</td>
</tr>
<tr>
<td>11:K:94:ILE:CD1</td>
<td>11:K:94:ILE:N</td>
<td>2.78</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:1100:ARG:O</td>
<td>3:A:1103:GLU:N</td>
<td>2.48</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:26:GLU:HA</td>
<td>3:A:29:ALA:CB</td>
<td>2.45</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:69:THR:HB</td>
<td>4:B:1174:LYS:HE3</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:300:HIS:CE1</td>
<td>4:B:376:PHE:CE1</td>
<td>3.03</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:254:GLU:HB3</td>
<td>4:B:935:ARG:NH1</td>
<td>2.30</td>
<td>0.46</td>
</tr>
<tr>
<td>5:C:58:LEU:N</td>
<td>5:C:58:LEU:CD2</td>
<td>2.72</td>
<td>0.46</td>
</tr>
<tr>
<td>6:E:100:ILE:HD13</td>
<td>6:E:108:GLY:HA3</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>6:E:53:PRO:CB</td>
<td>6:E:55:ARG:NH1</td>
<td>2.31</td>
<td>0.46</td>
</tr>
<tr>
<td>9:I:2:THR:HG22</td>
<td>9:I:2:THR:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>11:K:28:PRO:C</td>
<td>11:K:30:ALA:N</td>
<td>2.68</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:1076:HIS:CG</td>
<td>11:K:40:HIS:CD2</td>
<td>3.02</td>
<td>0.46</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>5:C:258:ILE:HD12</td>
<td>11:K:42:LEU:HD21</td>
<td>1.95</td>
<td>0.46</td>
</tr>
<tr>
<td>11:K:46:ILE:O</td>
<td>11:K:50:LEU:HB2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>12:L:27:LEU:O</td>
<td>12:L:28:LYS:HG2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>12:L:48:CYS:HB3</td>
<td>12:L:51:CYS:C</td>
<td>2.35</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:8:SER:OG</td>
<td>4:B:1180:PHE:CE1</td>
<td>2.67</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:589:VAL:HG12</td>
<td>4:B:590:HIS:H</td>
<td>1.79</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:653:VAL:HG12</td>
<td>4:B:654:ARG:N</td>
<td>2.31</td>
<td>0.46</td>
</tr>
<tr>
<td>5:C:43:THR:CG2</td>
<td>5:C:44:LEU:H</td>
<td>2.28</td>
<td>0.46</td>
</tr>
<tr>
<td>7:F:120:ILE:CG2</td>
<td>7:F:121:ALA:N</td>
<td>2.77</td>
<td>0.46</td>
</tr>
<tr>
<td>8:H:32:THR:CG2</td>
<td>8:H:33:GLN:CG</td>
<td>2.88</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:782:ARG:NH1</td>
<td>3:A:785:PRO:HA</td>
<td>2.31</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:783:THR:HB</td>
<td>3:A:787:PHE:CD1</td>
<td>2.50</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:809:THR:H</td>
<td>3:A:812:GLU:HB2</td>
<td>1.80</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:90:VAL:CG1</td>
<td>3:A:297:GLN:CA</td>
<td>2.78</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:63:ILE:HG12</td>
<td>4:B:421:PHE:CEZ</td>
<td>2.51</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:984:HIS:CD2</td>
<td>4:B:1025:HIS:N</td>
<td>2.84</td>
<td>0.46</td>
</tr>
<tr>
<td>6:E:63:ASN:HA</td>
<td>6:E:64:PRO:HD3</td>
<td>1.64</td>
<td>0.46</td>
</tr>
<tr>
<td>8:H:126:GLU:O</td>
<td>8:H:130:ARG:NH1</td>
<td>2.47</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:714:PHE:CB</td>
<td>9:I:97:MET:HE3</td>
<td>2.45</td>
<td>0.46</td>
</tr>
<tr>
<td>1:R:9:G:P</td>
<td>4:B:776:GLN:HE22</td>
<td>2.38</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:1261:LYS:C</td>
<td>3:A:1263:ILE:H</td>
<td>2.18</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:1392:SER:C</td>
<td>3:A:1393:ASN:ND2</td>
<td>2.65</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:57:ARG:O</td>
<td>3:A:68:GLN:CG</td>
<td>2.64</td>
<td>0.46</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:A:30:ILE:CG1</td>
<td>4:B:1170:THR:HG23</td>
<td>2.46</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:195:CYSHB2</td>
<td>4:B:784:ASN:OD1</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:760:ASP:C</td>
<td>4:B:762:ASN:N</td>
<td>2.69</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:854:LEU:HD23</td>
<td>4:B:854:LEU:HA</td>
<td>1.47</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:666:ILE:HA</td>
<td>4:B:1026:LEU:HD13</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:823:GLY:O</td>
<td>3:A:824:LEU:C</td>
<td>2.54</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:737:THR:O</td>
<td>4:B:738:PHE:N</td>
<td>2.33</td>
<td>0.46</td>
</tr>
<tr>
<td>5:C:124:LEU:O</td>
<td>5:C:125:MET:HB2</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:1084:GLN:HE22</td>
<td>5:C:191:TYR:CA</td>
<td>2.21</td>
<td>0.46</td>
</tr>
<tr>
<td>6:E:144:ILE:CG1</td>
<td>6:E:145:THR:N</td>
<td>2.79</td>
<td>0.46</td>
</tr>
<tr>
<td>6:E:171:LYS:O</td>
<td>6:E:173:SER:N</td>
<td>2.49</td>
<td>0.46</td>
</tr>
<tr>
<td>9:I:15:TYR:HD1</td>
<td>9:I:15:TYR:N</td>
<td>2.11</td>
<td>0.46</td>
</tr>
<tr>
<td>11:K:61:TYR:HA</td>
<td>11:K:72:LYS:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:1211:GLN:N</td>
<td>3:A:1215:ARG:HB2</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:113:TYR:O</td>
<td>4:B:114:PRO:C</td>
<td>2.50</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:1213:THR:HA</td>
<td>4:B:1214:PRO:HD3</td>
<td>1.68</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:472:ALA:C</td>
<td>4:B:474:SER:N</td>
<td>2.69</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:620:ARG:H</td>
<td>4:B:620:ARG:HG3</td>
<td>1.48</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:779:GLY:HA2</td>
<td>4:B:796:LEU:HB2</td>
<td>1.98</td>
<td>0.46</td>
</tr>
<tr>
<td>8:H:49:VAL:HG13</td>
<td>8:H:50:ALA:N</td>
<td>2.30</td>
<td>0.46</td>
</tr>
<tr>
<td>10:J:8:PHE:H</td>
<td>10:J:49:MET:HE1</td>
<td>1.80</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:1163:ILE:HA</td>
<td>3:A:1164:PRO:HD2</td>
<td>1.56</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:1441:PHE:HZ</td>
<td>7:F:89:GLU:CA</td>
<td>2.92</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:726:ARG:CG</td>
<td>3:A:727:ASP:N</td>
<td>2.79</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:1161:HI5:CD2</td>
<td>4:B:1173:ALA:HB2</td>
<td>2.51</td>
<td>0.46</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>4:B:361:LEU:CD1</td>
<td>4:B:361:LEU:N</td>
<td>2.78</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:421:PHE:HA</td>
<td>4:B:453:ILE:HD11</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:541:LEU:CD1</td>
<td>4:B:747:MET:HE1</td>
<td>2.43</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:780:VAL:HG12</td>
<td>4:B:817:LEU:HD23</td>
<td>1.96</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:59:LEU:HG</td>
<td>4:B:95:ILE:HD13</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>4:B:856:PHE:HA</td>
<td>4:B:968:VAL:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>5:C:167:HIS:CD2</td>
<td>5:C:168:ALA:N</td>
<td>2.84</td>
<td>0.46</td>
</tr>
<tr>
<td>6:E:12:LEU:HD21</td>
<td>6:E:58:MET:HE1</td>
<td>1.98</td>
<td>0.46</td>
</tr>
<tr>
<td>8:H:50:ALA:O</td>
<td>8:H:53:ASP:HB2</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>8:H:59:ILE:O</td>
<td>8:H:60:ALA:CB</td>
<td>2.61</td>
<td>0.46</td>
</tr>
<tr>
<td>10:J:23:ASN:O</td>
<td>10:J:27:GLU:HB2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>3:A:1340:GLY:CA</td>
<td>6:E:183:PRO:HG2</td>
<td>2.46</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:1349:TYR:CD2</td>
<td>3:A:1350:LYS:N</td>
<td>2.83</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:892:ALA:HB2</td>
<td>3:A:895:LYS:HD2</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:1064:TYR:N</td>
<td>4:B:1064:TYR:HD1</td>
<td>2.14</td>
<td>0.45</td>
</tr>
<tr>
<td>1:R:9:G:C5'</td>
<td>4:B:1097:HIS:NE2</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:335:ARG:NH1</td>
<td>4:B:1202:LEU:HD12</td>
<td>2.31</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:435:THR:C</td>
<td>4:B:437:GLU:N</td>
<td>2.70</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:877:PRO:O</td>
<td>4:B:878:GLN:HG2</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:41:ILE:HA</td>
<td>5:C:42:PRO:HD3</td>
<td>1.49</td>
<td>0.45</td>
</tr>
<tr>
<td>6:E:42:PHE:CZ</td>
<td>6:E:58:MET:HE1</td>
<td>2.51</td>
<td>0.45</td>
</tr>
<tr>
<td>6:E:82:PHE:N</td>
<td>6:E:82:PHE:CD1</td>
<td>2.84</td>
<td>0.45</td>
</tr>
<tr>
<td>7:F:81:THR:CG2</td>
<td>7:F:136:ARG:CD</td>
<td>2.84</td>
<td>0.45</td>
</tr>
<tr>
<td>8:H:5:LEU:HB3</td>
<td>8:H:133:ASN:O</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:R:8:G:N2</td>
<td>2:T:8:DT:N3</td>
<td>2.64</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:1042:PHE:C</td>
<td>3:A:1042:PHE:CD2</td>
<td>2.89</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:867:IIE:HG22</td>
<td>3:A:872:GLY:N</td>
<td>2.32</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:1159:ARG:NE</td>
<td>4:B:1193:GLN:HE21</td>
<td>2.15</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:331:LEU:O</td>
<td>4:B:332:ASP:O</td>
<td>2.34</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:411:PRO:C</td>
<td>4:B:414:ALA:HB3</td>
<td>2.37</td>
<td>0.45</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>4:B:550:ASP:HA</td>
<td>4:B:551:PRO:HD3</td>
<td>1.61</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:610:ASN:O</td>
<td>4:B:613:VAL:HG23</td>
<td>2.15</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:785:PRO:CG</td>
<td>4:B:703:ILE:HD12</td>
<td>2.45</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:744:HIS:HA</td>
<td>4:B:745:PRO:HD3</td>
<td>1.50</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:780:VAL:HA</td>
<td>4:B:795:ILE:HG23</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:953:LEU:HD22</td>
<td>4:B:965:LYS:HB2</td>
<td>1.97</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:848:ARG:HH22</td>
<td>4:B:996:ARG:NH1</td>
<td>2.14</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:999:MET:HG2</td>
<td>4:B:1008:PRO:HD2</td>
<td>1.97</td>
<td>0.45</td>
</tr>
<tr>
<td>6:E:32:GLN:O</td>
<td>6:E:32:GLN:HG3</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>12:L:30:ILE:HD11</td>
<td>12:L:59:ALA:HA</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>12:L:45:ALA:O</td>
<td>12:L:46:VAL:HG22</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:25:ILE:HD12</td>
<td>4:B:651:LEU:CD1</td>
<td>2.34</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:317:CYS:O</td>
<td>4:B:318:VAL:C</td>
<td>2.54</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:501:PRO:O</td>
<td>4:B:502:ILE:CB</td>
<td>2.64</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:118:LEU:HB2</td>
<td>5:C:132:PRO:HG3</td>
<td>1.97</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:120:ILE:HD21</td>
<td>5:C:124:LEU:HD21</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:133:ILE:C</td>
<td>5:C:134:ILE:HD13</td>
<td>2.32</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:62:PHE:CD2</td>
<td>5:C:62:PHE:C</td>
<td>2.90</td>
<td>0.45</td>
</tr>
<tr>
<td>6:E:173:SER:C</td>
<td>6:E:175:LEU:N</td>
<td>2.69</td>
<td>0.45</td>
</tr>
<tr>
<td>8:H:58:THR:HG22</td>
<td>8:H:59:ILE:H</td>
<td>1.80</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:792:TYR:CD1</td>
<td>3:A:792:TYR:N</td>
<td>2.85</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:1072:MET:CE</td>
<td>4:B:1085:ILE:CG2</td>
<td>2.92</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:350:GLN:O</td>
<td>4:B:353:LYS:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:562:GLY:HA3</td>
<td>4:B:590:LYS:HE1</td>
<td>1.78</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:589:VAL:CG1</td>
<td>4:B:590:LYS:H</td>
<td>2.28</td>
<td>0.45</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>5:C:163:ILE:O</td>
<td>5:C:164:ALA:C</td>
<td>2.55</td>
<td>0.45</td>
</tr>
<tr>
<td>8:H:106:GLU:HG3</td>
<td>8:H:112:ILE:HD11</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>8:H:40:LEU:CD1</td>
<td>8:H:123:MET:HE3</td>
<td>2.46</td>
<td>0.45</td>
</tr>
<tr>
<td>10:J:57:ILE:C</td>
<td>10:J:59:LYS:N</td>
<td>2.67</td>
<td>0.45</td>
</tr>
<tr>
<td>2:T:14:DT:HG2+</td>
<td>3:A:317:LYS:HG2</td>
<td>1.97</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:120:LYS:O</td>
<td>3:A:120:LEU:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:35:ILE:O</td>
<td>3:A:270:LEU:CD1</td>
<td>2.65</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:966:ASN:O</td>
<td>3:A:104:TRP:CH2</td>
<td>2.70</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:293:PRO:O</td>
<td>4:B:294:ASP:C</td>
<td>2.55</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:647:GLY:O</td>
<td>4:B:648:HIS:CD2</td>
<td>2.69</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:732:SER:HB3</td>
<td>4:B:734:LYS:CD2</td>
<td>2.51</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:14:LEU:CG1</td>
<td>5:C:14:LEU:N</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:27:LEU:C</td>
<td>5:C:29:MET:N</td>
<td>2.49</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:848:ARG:NH1</td>
<td>10:J:8:PHE:O</td>
<td>2.49</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:332:LYS:C</td>
<td>3:A:334:GLY:N</td>
<td>2.69</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:110:ARG:HH21</td>
<td>4:B:110:GLY:HH21</td>
<td>2.19</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:117:ALA:C</td>
<td>4:B:117:LEU:N</td>
<td>2.70</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:27:ALA:O</td>
<td>4:B:30:SER:OG</td>
<td>2.34</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:408:LEU:HA</td>
<td>4:B:408:LEU:HD12</td>
<td>1.57</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:428:ILE:HG13</td>
<td>4:B:448:ILE:HD13</td>
<td>1.97</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:476:ARG:O</td>
<td>4:B:477:ALA:C</td>
<td>2.52</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:478:THR:O</td>
<td>4:B:488:TYR:C</td>
<td>2.55</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:523:CYS:SG</td>
<td>4:B:524:PRO:HD2</td>
<td>2.56</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:569:TYR:CE1</td>
<td>4:B:589:VAL:HG21</td>
<td>2.52</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:802:PRO:HG3</td>
<td>4:B:1091:TYR:HG3</td>
<td>2.51</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:3:GLU:CG</td>
<td>5:C:4:GLU:N</td>
<td>2.55</td>
<td>0.45</td>
</tr>
<tr>
<td>7:F:83:PRO:CD</td>
<td>7:F:84:TYR:N</td>
<td>2.79</td>
<td>0.45</td>
</tr>
<tr>
<td>9:1:4:PHE:CE1</td>
<td>9:1:13:MET:CE</td>
<td>3.00</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>3:A:315:LEU:CD1</td>
<td>3:A:319:GLY:HA2</td>
<td>2.27</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:341:MET:HE1</td>
<td>3:A:843:LYS:HZ3</td>
<td>1.80</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:49:LYS:HZ2</td>
<td>3:A:60:SER:HA</td>
<td>1.81</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:870:GLU:C</td>
<td>6:E:204:THR:HG21</td>
<td>2.37</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:1030:LEU:HD1</td>
<td>4:B:1067:ARG:C</td>
<td>2.37</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:1096:ARG:HH11</td>
<td>4:B:1096:ARG:CB</td>
<td>2.30</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:1148:LYS:O</td>
<td>4:B:1152:MET:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:274:PRO:O</td>
<td>4:B:275:TYR:C</td>
<td>2.53</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:357:GLN:O</td>
<td>4:B:366:GLN:HA</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:579:ARG:HB2</td>
<td>4:B:586:TRP:HE1</td>
<td>1.82</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:782:LEU:HB3</td>
<td>4:B:784:ASN:OD1</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:860:MET:CG</td>
<td>4:B:861:ASP:N</td>
<td>2.72</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:899:ILE:HG22</td>
<td>4:B:900:ALA:N</td>
<td>2.32</td>
<td>0.45</td>
</tr>
<tr>
<td>6:E:82:PHE:N</td>
<td>6:E:82:PHE:HD1</td>
<td>2.15</td>
<td>0.45</td>
</tr>
<tr>
<td>10:J:50:ILE:C</td>
<td>10:J:52:THR:N</td>
<td>2.67</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:1127:ASP:HB3</td>
<td>3:A:1130:GLN:H</td>
<td>1.82</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:18:GLN:HE22</td>
<td>3:A:1418:LEU:HB2</td>
<td>1.81</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:884:ASP:N</td>
<td>3:A:884:ASP:OD2</td>
<td>2.49</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:1051:THR:CG2</td>
<td>4:B:1053:GLU:HB2</td>
<td>2.46</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:105:SER:O</td>
<td>4:B:106:ASP:C</td>
<td>2.54</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:270:LYS:HE3</td>
<td>4:B:281:PRO:HG3</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:282:ILE:CG1</td>
<td>4:B:283:VAL:N</td>
<td>2.79</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:292:ILE:HD1</td>
<td>4:B:327:ARG:H</td>
<td>1.82</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:521:LEU:CD2</td>
<td>4:B:635:ARG:CG</td>
<td>2.84</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:574:SER:HB3</td>
<td>4:B:591:ARG:HH21</td>
<td>1.82</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:641:GLU:C</td>
<td>4:B:643:ASP:N</td>
<td>2.69</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:738:LYS:HZ1</td>
<td>5:C:194:GLU:HA</td>
<td>1.79</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:183:TRP:Z2</td>
<td>5:C:207:CYS:HB3</td>
<td>2.51</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:41:ILE:HD1</td>
<td>5:C:172:PRO:CG</td>
<td>2.47</td>
<td>0.45</td>
</tr>
<tr>
<td>6:E:63:ASN:HB3</td>
<td>6:E:64:PRO:CD</td>
<td>2.46</td>
<td>0.45</td>
</tr>
<tr>
<td>7:F:81:THR:CG2</td>
<td>7:F:136:ARG:NH1</td>
<td>2.64</td>
<td>0.45</td>
</tr>
<tr>
<td>10:J:25:LEU:HB2</td>
<td>10:J:26:GLN:H</td>
<td>1.66</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>5:C:66:ARG:HH21</td>
<td>10:J:4:PRO:HA</td>
<td>1.82</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:1213:GLY:HA2</td>
<td>3:A:1216:ILE:CD1</td>
<td>2.46</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:1382:THR:HG22</td>
<td>3:A:1388:GLY:CA</td>
<td>2.46</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:1082:MET:HA</td>
<td>5:C:189:THR:HA</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:1115:THR:O</td>
<td>4:B:1116:ARG:CB</td>
<td>2.65</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:226:PHE:O</td>
<td>4:B:236:HIS:HA</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:744:HIS:CG</td>
<td>4:B:745:PRO:CD</td>
<td>3.00</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:796:LEU:O</td>
<td>4:B:799:PRO:HD2</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:821:GLN:OE1</td>
<td>4:B:851:PHE:N</td>
<td>2.45</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:847:ASP:C</td>
<td>4:B:849:GLY:N</td>
<td>2.71</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:101:LEU:HB3</td>
<td>5:C:155:LEU:HB2</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>5:C:183:TRP:O</td>
<td>5:C:185:LYS:N</td>
<td>2.49</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:797:TYR:CE2</td>
<td>5:C:62:PHE:HA</td>
<td>2.52</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:1338:VAL:O</td>
<td>6:E:183:PRO:CB</td>
<td>2.64</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:67:CYS:C</td>
<td>3:A:68:GLN:NE2</td>
<td>2.70</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:786:HIS:N</td>
<td>3:A:786:HIS:CD2</td>
<td>2.85</td>
<td>0.45</td>
</tr>
<tr>
<td>3:A:901:LEU:CA</td>
<td>3:A:907:THR:HG23</td>
<td>2.32</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:38:PHE:CE2</td>
<td>4:B:43:LEU:CD2</td>
<td>3.01</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:62:ILE:CG2</td>
<td>4:B:418:LYS:HG2</td>
<td>2.39</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:712:PRO:O</td>
<td>4:B:712:PRO:HD2</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>8:H:84:ALA:CB</td>
<td>8:H:87:ARG:CB</td>
<td>2.90</td>
<td>0.45</td>
</tr>
<tr>
<td>4:B:360:PHE:CE1</td>
<td>4:B:361:LEU:HD13</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:428:ILE:O</td>
<td>4:B:430:ARG:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:449:ASN:CG</td>
<td>4:B:449:ASN:O</td>
<td>2.56</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:451:LYS:O</td>
<td>4:B:453:ILE:N</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>4:B:170:LEU:CD1</td>
<td>4:B:457:LEU:HD13</td>
<td>2.46</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:573:GLN:HG2</td>
<td>4:B:573:GLN:O</td>
<td>2.16</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:859:TYR:OH</td>
<td>4:B:941:LEU:CD2</td>
<td>2.61</td>
<td>0.44</td>
</tr>
<tr>
<td>6:E:100:ILE:O</td>
<td>6:E:101:GLN:C</td>
<td>2.56</td>
<td>0.44</td>
</tr>
<tr>
<td>6:E:78:LEU:HD23</td>
<td>10:J:8:PHE:N</td>
<td>2.37</td>
<td>0.44</td>
</tr>
<tr>
<td>11:K:43:GLY:CA</td>
<td>11:K:71:PHE:CZ</td>
<td>3.01</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:1384:VAL:O</td>
<td>3:A:1389:PHE:CE2</td>
<td>2.70</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:191:LYS:C</td>
<td>4:B:193:LYS:H</td>
<td>2.21</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:213:ILE:O</td>
<td>4:B:215:GLN:HG2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:234:ILE:N</td>
<td>4:B:234:ILE:HD13</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:356:LEU:HA</td>
<td>4:B:360:PHE:HB3</td>
<td>1.98</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:461:LEU:HD12</td>
<td>4:B:461:LEU:HA</td>
<td>1.68</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:420:LEU:CD2</td>
<td>4:B:468:GLU:OE2</td>
<td>2.65</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:894:ASP:OD2</td>
<td>12:L:58:LYS:NZ</td>
<td>2.48</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:992:ILE:HG13</td>
<td>4:B:993:THR:H</td>
<td>1.81</td>
<td>0.44</td>
</tr>
<tr>
<td>5:C:80:LEU:HD12</td>
<td>5:C:95:CYS:HA</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>10:J:1:MET:N</td>
<td>10:J:56:LEU:HB2</td>
<td>2.32</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:265:LYS:HZ1</td>
<td>3:A:322:VAL:CB</td>
<td>2.30</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1079:LYS:HE3</td>
<td>5:C:188:HIS:ND1</td>
<td>2.32</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:383:ASN:ND2</td>
<td>4:B:384:ARG:HH11</td>
<td>2.11</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:412:LEU:HB3</td>
<td>4:B:466:TRP:CE2</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:653:VAL:C</td>
<td>4:B:654:ARG:HG2</td>
<td>2.38</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:542:MET:HG3</td>
<td>4:B:747:MET:HE3</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:801:LYS:O</td>
<td>10:J:52:THR:HG21</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:912:ILE:O</td>
<td>4:B:938:SER:CB</td>
<td>2.65</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:957:ASN:C</td>
<td>4:B:957:ASN:ND2</td>
<td>2.71</td>
<td>0.44</td>
</tr>
<tr>
<td>5:C:144:ILE:HA</td>
<td>5:C:144:ILE:HD13</td>
<td>1.82</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:551:TYR:CE2</td>
<td>11:K:74:ARG:HB2</td>
<td>2.52</td>
<td>0.44</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>11:K:92:ASN:O</td>
<td>11:K:96:ASN:ND2</td>
<td>2.51</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:209:ASN:O</td>
<td>3:A:212:LYS:HB2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:943:LEU:C</td>
<td>3:A:945:GLU:N</td>
<td>2.69</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:745:PRO:HB2</td>
<td>4:B:1047:PHE:CD1</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1106:ARG:CD</td>
<td>4:B:1126:GLY:O</td>
<td>2.57</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1135:ARG:O</td>
<td>4:B:1136:ASP:C</td>
<td>2.53</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:42:GLY:C</td>
<td>4:B:43:LEU:HD23</td>
<td>2.38</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:636:PRO:HB2</td>
<td>4:B:637:LEU:H</td>
<td>1.09</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:708:GLU:CG</td>
<td>4:B:709:ASP:N</td>
<td>2.73</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:981:ALA:O</td>
<td>4:B:982:SER:O</td>
<td>2.36</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1084:GLN:NE2</td>
<td>5:C:192:TRP:H</td>
<td>2.14</td>
<td>0.44</td>
</tr>
<tr>
<td>5:C:44:LEU:HD12</td>
<td>5:C:44:LEU:HA</td>
<td>1.73</td>
<td>0.44</td>
</tr>
<tr>
<td>5:C:69:LEU:N</td>
<td>5:C:69:LEU:HD13</td>
<td>2.33</td>
<td>0.44</td>
</tr>
<tr>
<td>7:F:121:ALA:HA</td>
<td>7:F:124:GLU:HB2</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:1343:ALA:O</td>
<td>3:A:1346:ALA:HB3</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:7:SER:CB</td>
<td>4:B:1193:GLN:HE22</td>
<td>2.12</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:954:TRP:N</td>
<td>3:A:954:TRP:CD1</td>
<td>2.84</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1002:THR:HG22</td>
<td>4:B:1006:ILE:O</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1031:LEU:HD13</td>
<td>4:B:1055:ILE:CD1</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1033:LYS:HA</td>
<td>4:B:1089:PRO:CG</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1202:LEU:HD22</td>
<td>4:B:1202:LEU:HA</td>
<td>1.45</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:31:TRP:CD2</td>
<td>4:B:807:ARG:HD2</td>
<td>2.53</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:766:ARG:HD3</td>
<td>4:B:766:ARG:HA</td>
<td>1.83</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:759:PRO:HB2</td>
<td>4:B:767:ASN:ND2</td>
<td>2.32</td>
<td>0.44</td>
</tr>
<tr>
<td>5:C:167:HIS:HD2</td>
<td>5:C:168:ALA:H</td>
<td>1.64</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:996:ARG:CE</td>
<td>5:C:38:ILE:HD12</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>6:E:98:ILE:C</td>
<td>6:E:100:ILE:N</td>
<td>2.71</td>
<td>0.44</td>
</tr>
<tr>
<td>8:H:98:TYR:N</td>
<td>8:H:118:PHE:HD2</td>
<td>2.16</td>
<td>0.44</td>
</tr>
<tr>
<td>8:H:129:TYR:C</td>
<td>8:H:131:ASN:N</td>
<td>2.71</td>
<td>0.44</td>
</tr>
<tr>
<td>8:H:95:TYR:CE2</td>
<td>8:H:97:MET:SD</td>
<td>3.10</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:1017:LEU:HB2</td>
<td>6:E:206:GLY:H</td>
<td>1.82</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:1228:TRP:CA</td>
<td>3:A:1237:ILE:O</td>
<td>2.63</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:537:ARG:CG</td>
<td>3:A:537:ARG:NH1</td>
<td>2.77</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>4:B:1077:THR:HG23</td>
<td>4:B:1079:LYS:H</td>
<td>1.77</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1197:PRO:O</td>
<td>4:B:1200:ALA:CB</td>
<td>2.64</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1215:ARG:C</td>
<td>4:B:1216:LEU:HD23</td>
<td>2.38</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:189:LEU:O</td>
<td>4:B:192:LEU:N</td>
<td>2.51</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:361:LEU:N</td>
<td>4:B:362:PRO:HD3</td>
<td>2.31</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:724:ASP:O</td>
<td>4:B:724:ASP:OD1</td>
<td>2.35</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:756:ILE:CG2</td>
<td>4:B:759:PRO:HB3</td>
<td>2.38</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:197:PHE:CD1</td>
<td>4:B:817:LEU:HD11</td>
<td>2.53</td>
<td>0.44</td>
</tr>
<tr>
<td>6:E:12:LEU:HD12</td>
<td>6:E:12:LEU:O</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>7:F:97:ARG:CD</td>
<td>7:F:100:GLN:OE1</td>
<td>2.66</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:504:LEU:CD1</td>
<td>7:F:91:ALA:HB1</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>8:H:7:ASP:OD1</td>
<td>8:H:8:ASP:N</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1144:ALA:O</td>
<td>4:B:1147:LEU:N</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:321:GLY:C</td>
<td>4:B:323:VAL:N</td>
<td>2.71</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:626:ILE:HD12</td>
<td>4:B:626:ILE:N</td>
<td>2.33</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:761:HIS:H</td>
<td>4:B:761:HIS:CD2</td>
<td>2.35</td>
<td>0.44</td>
</tr>
<tr>
<td>6:E:59:SER:OG</td>
<td>6:E:81:GLU:HG3</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>7:F:86:THR:OG1</td>
<td>7:F:89:GLU:CG</td>
<td>2.60</td>
<td>0.44</td>
</tr>
<tr>
<td>12:L:61:THR:HG22</td>
<td>12:L:62:LYS:N</td>
<td>2.32</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:129:LYS:O</td>
<td>3:A:130:ASP:OD2</td>
<td>2.36</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:1336:MET:HE1</td>
<td>3:A:1381:LEU:HB2</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:264:PHE:O</td>
<td>3:A:267:ALA:HB3</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:441:PRO:O</td>
<td>3:A:441:PRO:HG2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>2:T:5:DT:CT'</td>
<td>3:A:448:PRO:HB3</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:51:GLY:CA</td>
<td>3:A:56:PRO:HG2</td>
<td>2.45</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:120:ARG:HD2</td>
<td>4:B:955:THR:CG2</td>
<td>2.16</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:61:ASP:OD1</td>
<td>4:B:61:ASP:N</td>
<td>2.51</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>4:B:689:LEU:C</td>
<td>4:B:690:VAL:HG23</td>
<td>2.38</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:751:VAL:HG22</td>
<td>4:B:812:LEU:HD11</td>
<td>1.98</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:893:LEU:HD23</td>
<td>4:B:897:GLY:C</td>
<td>2.39</td>
<td>0.44</td>
</tr>
<tr>
<td>6:E:17:ARG:O</td>
<td>6:E:20:LYS:HB2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>7:F:134:ILE:HG22</td>
<td>7:F:135:ARG:N</td>
<td>2.32</td>
<td>0.44</td>
</tr>
<tr>
<td>10:J:1:MET:HB2</td>
<td>10:J:1:MET:HE2</td>
<td>1.88</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:528:LEU:HA</td>
<td>3:A:531:ILE:H</td>
<td>1.82</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:1159:ARG:HH21</td>
<td>4:B:1193:GLN:HE21</td>
<td>1.66</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:286:PHE:CG</td>
<td>4:B:297:ILE:HD12</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:456:GLY:HA3</td>
<td>4:B:468:GLU:OE2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:518:HIS:O</td>
<td>4:B:519:TRP:C</td>
<td>2.55</td>
<td>0.44</td>
</tr>
<tr>
<td>4:B:868:MET:O</td>
<td>4:B:869:SER:CB</td>
<td>2.66</td>
<td>0.44</td>
</tr>
<tr>
<td>12:L:62:LYS:O</td>
<td>12:L:64:LEU:HG</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>3:A:332:LYS:H</td>
<td>3:A:337:ARG:HB2</td>
<td>1.82</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:54:ASN:OD1</td>
<td>3:A:54:ASN:O</td>
<td>2.36</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:78:PRO:O</td>
<td>3:A:79:GLY:C</td>
<td>2.56</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:840:ARG:O</td>
<td>3:A:841:LEU:C</td>
<td>2.55</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:1183:LYS:CE</td>
<td>4:B:1183:LYS:O</td>
<td>2.66</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:273:LEU:HD21</td>
<td>4:B:360:PHE:HD1</td>
<td>1.82</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:427:ASP:HA</td>
<td>4:B:430:ARG:HD2</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:834:ASN:HB2</td>
<td>4:B:839:MET:HA</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>5:C:237:SER:C</td>
<td>5:C:238:ILE:HG13</td>
<td>2.38</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1017:LEU:HB2</td>
<td>6:E:206:GLY:N</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>8:H:12:VAL:HA</td>
<td>8:H:28:ALA:HB1</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1276:VAL:HB</td>
<td>3:A:1279:ILE:HD13</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1398:MET:O</td>
<td>3:A:1399:ARG:C</td>
<td>2.56</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:445:ASN:ND2</td>
<td>3:A:446:ARG:C</td>
<td>2.72</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:618:GLU:CD</td>
<td>3:A:619:LYS:N</td>
<td>2.70</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:691:LEU:HD11</td>
<td>3:A:695:LYS:HD2</td>
<td>2.00</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>3:A:89:PRO:O</td>
<td>3:A:90:VAL:CG2</td>
<td>2.66</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:941:LYS:O</td>
<td>3:A:942:PHE:C</td>
<td>2.56</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:1072:MET:HB2</td>
<td>4:B:1085:ILE:CD1</td>
<td>2.49</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:107:GLY:O</td>
<td>4:B:108:VAL:O</td>
<td>2.37</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:25:ILE:H</td>
<td>4:B:25:ILE:HG13</td>
<td>1.64</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:376:PHE:CZ</td>
<td>4:B:569:TYR:HB3</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:483:LEU:HB3</td>
<td>4:B:484:ASN:H</td>
<td>1.60</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:54:PHE:CZ</td>
<td>4:B:55:VAL:C</td>
<td>2.56</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:884:ARG:O</td>
<td>4:B:936:ASP:HB3</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:951:GLN:HG2</td>
<td>12:L:57:LEU:HD22</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>5:C:204:SER:O</td>
<td>5:C:205:LYS:C</td>
<td>2.55</td>
<td>0.43</td>
</tr>
<tr>
<td>7:F:101:ILE:CD1</td>
<td>7:F:120:ILE:HG22</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>7:F:80:ALA:O</td>
<td>7:F:81:THR:C</td>
<td>2.57</td>
<td>0.43</td>
</tr>
<tr>
<td>8:H:76:THR:O</td>
<td>8:H:76:THR:CG2</td>
<td>2.66</td>
<td>0.43</td>
</tr>
<tr>
<td>9:I:84:VAL:O</td>
<td>9:I:84:VAL:CG1</td>
<td>2.65</td>
<td>0.43</td>
</tr>
<tr>
<td>9:I:7:CY5:SG</td>
<td>9:I:8:ARG:O</td>
<td>2.77</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1044:TRP:C</td>
<td>3:A:1046:LEU:N</td>
<td>2.69</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:361:LEU:N</td>
<td>3:A:471:ASN:ND2</td>
<td>2.67</td>
<td>0.43</td>
</tr>
<tr>
<td>2:T:6:DC:H4'</td>
<td>3:A:447:GLN:OE1</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:583:PRO:HG2</td>
<td>3:A:586:ILE:HG13</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:599:SER:O</td>
<td>3:A:602:ASP:N</td>
<td>2.32</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:690:VAL:HG13</td>
<td>3:A:718:VAL:HG22</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:88:LYS:HA</td>
<td>3:A:89:PRO:HD2</td>
<td>1.70</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:1001:PHE:CD2</td>
<td>5:C:34:ARG:NH2</td>
<td>2.86</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:634:TYR:CD1</td>
<td>4:B:692:TYR:HB3</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:63:ILE:CG1</td>
<td>4:B:421:PHE:HZ</td>
<td>3.01</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:744:HIS:CD2</td>
<td>4:B:745:PRO:HD2</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:890:TYR:O</td>
<td>4:B:892:LYS:N</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:996:ARG:NH2</td>
<td>5:C:174:ALA:O</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>5:C:27:LEU:HA</td>
<td>5:C:228:PHE:HZ</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:946:VAL:CG2</td>
<td>6:E:201:LYS:HB3</td>
<td>2.47</td>
<td>0.43</td>
</tr>
<tr>
<td>7:F:117:PRO:O</td>
<td>7:F:120:ILE:HB</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>8:H:93:TYR:HD2</td>
<td>8:H:145:ARG:HB3</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:547:LEU:CD2</td>
<td>11:K:58:PHE:CD1</td>
<td>2.96</td>
<td>0.43</td>
</tr>
<tr>
<td>11:K:4:PRO:O</td>
<td>11:K:5:ASP:C</td>
<td>2.56</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1021:LEU:O</td>
<td>3:A:1022:LEU:C</td>
<td>2.56</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1156:PRO:CD</td>
<td>3:A:1157:ASP:N</td>
<td>2.81</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>3:A:1207:LEU:HD11</td>
<td>3:A:1273:LEU:HD23</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1219:THR:HG23</td>
<td>3:A:1271:ILE:HD11</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:867:ILE:HG22</td>
<td>3:A:872:GLY:CA</td>
<td>2.49</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:7:SER:OG</td>
<td>3:A:9:ALA:HB3</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:112:LEU:HA</td>
<td>4:B:112:LEU:HD12</td>
<td>1.62</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:1197:PRO:O</td>
<td>4:B:1200:ALA:N</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:173:MET:O</td>
<td>4:B:176:SER:CB</td>
<td>2.66</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:359:GLU:HA</td>
<td>4:B:362:PRO:HG3</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:458:LYS:O</td>
<td>4:B:462:ALA:N</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:55:VAL:O</td>
<td>4:B:56:ASP:C</td>
<td>2.56</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:705:MET:H</td>
<td>4:B:710:LEU:HD12</td>
<td>1.82</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:841:MET:SD</td>
<td>4:B:990:ILE:HD11</td>
<td>2.58</td>
<td>0.43</td>
</tr>
<tr>
<td>2:T:10:DT:OP1</td>
<td>4:B:857:ARG:NH2</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:872:GLU:HG3</td>
<td>4:B:916:THR:OG1</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>5:C:41:ILE:HG12</td>
<td>5:C:172:PRO:HG3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>6:E:39:LEU:C</td>
<td>6:E:41:ASP:N</td>
<td>2.71</td>
<td>0.43</td>
</tr>
<tr>
<td>7:F:81:THR:CB</td>
<td>7:F:144:GLU:OE1</td>
<td>2.67</td>
<td>0.43</td>
</tr>
<tr>
<td>10:J:1:MET:HI</td>
<td>10:J:56:LEU:HB2</td>
<td>1.84</td>
<td>0.43</td>
</tr>
<tr>
<td>10:J:7:CYS:SG</td>
<td>10:J:7:CYS:O</td>
<td>2.74</td>
<td>0.43</td>
</tr>
<tr>
<td>10:J:8:PHE:H</td>
<td>10:J:49:MET:HE3</td>
<td>1.81</td>
<td>0.43</td>
</tr>
<tr>
<td>11:K:47:ARG:HD3</td>
<td>11:K:60:ALA:HA</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>11:K:49:GLU:C</td>
<td>11:K:51:LEU:N</td>
<td>2.71</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:1159:ARG:CD</td>
<td>4:B:1193:GLN:HG3</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:325:ILE:HG22</td>
<td>4:B:1210:MET:SD</td>
<td>2.59</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:125:SER:HB2</td>
<td>4:B:171:PRO:N</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:474:SER:O</td>
<td>4:B:476:ARG:N</td>
<td>2.47</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:54:PHE:HB3</td>
<td>4:B:55:VAL:H</td>
<td>1.58</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:598:GLU:O</td>
<td>4:B:599:THR:C</td>
<td>2.57</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:666:TYR:C</td>
<td>4:B:668:ASP:N</td>
<td>2.72</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:701:ILE:HG12</td>
<td>4:B:703:ILE:HG13</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:640:VAL:CG2</td>
<td>4:B:740:HIS:HA</td>
<td>2.39</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:488:TYR:HE2</td>
<td>4:B:813:LYS:HB2</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>5:C:137:LYS:HD3</td>
<td>5:C:138:GLU:HG2</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>6:E:20:LYS:O</td>
<td>6:E:21:GLU:C</td>
<td>2.57</td>
<td>0.43</td>
</tr>
<tr>
<td>7:F:93:ILE:HD11</td>
<td>7:F:134:ILE:HD11</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>8:H:40:LEU:HD13</td>
<td>8:H:123:MET:HE2</td>
<td>2.00</td>
<td>0.43</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:A:1044:TRP:O</td>
<td>3:A:1046:LEU:N</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:138:ILE:HG22</td>
<td>3:A:139:TRP:N</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1418:LEU:HD21</td>
<td>4:B:1222:ARG:HG3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:367:PRO:CB</td>
<td>3:A:466:SER:HA</td>
<td>2.49</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:714:PHE:CG</td>
<td>9:I:97:MET:CE</td>
<td>3.01</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:1022:THR:HG23</td>
<td>4:B:1022:THR:O</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:176:SER:O</td>
<td>4:B:182:SER:HB3</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:308:TRP:CG</td>
<td>4:B:309:GLN:N</td>
<td>2.86</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:430:ARG:HB3</td>
<td>4:B:434:ARG:NH1</td>
<td>2.34</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:535:LEU:HA</td>
<td>4:B:535:LEU:HD23</td>
<td>1.71</td>
<td>0.43</td>
</tr>
<tr>
<td>6:E:128:PRO:HA</td>
<td>6:E:129:PRO:HA</td>
<td>1.72</td>
<td>0.43</td>
</tr>
<tr>
<td>11:K:17:SER:O</td>
<td>11:K:18:LYS:C</td>
<td>2.55</td>
<td>0.43</td>
</tr>
<tr>
<td>12:L:43:THR:HG23</td>
<td>12:L:43:THR:O</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1168:GLU:O</td>
<td>3:A:1171:GLN:N</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:491:VAL:O</td>
<td>3:A:493:GLN:NE2</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:530:GLY:C</td>
<td>3:A:653:VAL:HG11</td>
<td>2.39</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:1058:LEU:HD23</td>
<td>4:B:1058:LEU:HA</td>
<td>1.73</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:1095:LEU:O</td>
<td>4:B:1096:ARG:O</td>
<td>2.35</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:113:TYR:O</td>
<td>4:B:116:GLU:N</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:12:ARG:HB2</td>
<td>4:B:1218:THR:CG2</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:170:LEU:HD12</td>
<td>4:B:171:PRO:CD</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:233:PRO:HG2</td>
<td>4:B:234:ILE:N</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:254:LEU:HD12</td>
<td>4:B:272:THR:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:365:THR:HG21</td>
<td>4:B:367:LEU:HD12</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:423:LYS:CB</td>
<td>4:B:423:LYS:NZ</td>
<td>2.76</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:211:VAL:CG2</td>
<td>4:B:483:LEU:HG</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:710:LEU:O</td>
<td>4:B:711:GLU:HB3</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:842:ASN:O</td>
<td>4:B:846:ILE:HG13</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>6:E:127:ILE:H</td>
<td>6:E:127:ILE:CD1</td>
<td>2.31</td>
<td>0.43</td>
</tr>
<tr>
<td>6:E:71:LYS:HD3</td>
<td>6:E:160:GLU:OE2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>2:T:8:DT:OP2</td>
<td>2:T:8:DT:HT3</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1382:THR:HG22</td>
<td>3:A:1388:GLY:HA3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
</tbody>
</table>
| 3:A:152:VAL:HG13  | 3:A:153:PRO:HD2     | 2.00                      | 0.43             

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>3:A:793:SER:OG</td>
<td>3:A:793:GLU:HG3</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:1132:GLU:O</td>
<td>4:B:1135:ARG:HB3</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:368:GLU:HB3</td>
<td>4:B:369:GLY:H</td>
<td>1.71</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:169:ARG:HD2</td>
<td>4:B:454:THR:HG21</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:584:ILE:O</td>
<td>4:B:557:PHE:N</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:991:GLY:O</td>
<td>4:B:992:ILE:HB</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>5:C:260:LEU:O</td>
<td>5:C:264:GLN:CG</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>5:C:5:GLY:O</td>
<td>5:C:6:PRO:C</td>
<td>2.56</td>
<td>0.43</td>
</tr>
<tr>
<td>6:E:186:LEU:HA</td>
<td>6:E:186:LEU:HD23</td>
<td>1.91</td>
<td>0.43</td>
</tr>
<tr>
<td>6:E:46:TYR:CD2</td>
<td>6:E:58:MET:CE</td>
<td>3.02</td>
<td>0.43</td>
</tr>
<tr>
<td>8:H:143:LEU:C</td>
<td>8:H:144:ILE:HG13</td>
<td>2.39</td>
<td>0.43</td>
</tr>
<tr>
<td>8:H:15:VAL:HG12</td>
<td>8:H:15:VAL:O</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>8:H:62:SER:HB2</td>
<td>8:H:63:LEU:H</td>
<td>1.29</td>
<td>0.43</td>
</tr>
<tr>
<td>11:K:82:ASP:HA</td>
<td>11:K:83:PRO:HD2</td>
<td>1.61</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1349:TYR:O</td>
<td>3:A:1351:GLU:N</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:33:ALA:O</td>
<td>3:A:34:LYS:HG3</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:407:ARG:HB3</td>
<td>3:A:430:TRP:CG2</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:458:HIS:CE1</td>
<td>3:A:507:VAL:CG2</td>
<td>2.95</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:699:ALA:O</td>
<td>3:A:701:LEU:HG</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:707:GLY:O</td>
<td>3:A:1281:ARG:HD3</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:778:GLY:HA3</td>
<td>4:B:516:ASN:HB2</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:902:LEU:H</td>
<td>3:A:902:LEU:HG</td>
<td>1.31</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:929:LEU:N</td>
<td>3:A:929:LEU:CD2</td>
<td>2.77</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:989:GLY:O</td>
<td>3:A:992:ASP:N</td>
<td>2.34</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:1007:VAL:HG13</td>
<td>4:B:1008:PRO:N</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:100:PRO:HG2</td>
<td>4:B:124:TYR:CZ</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:174:LEU:HD23</td>
<td>4:B:202:TYR:CE1</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:258:LEU:O</td>
<td>4:B:259:TYR:C</td>
<td>2.56</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:46:GLN:NE2</td>
<td>4:B:496:ARG:HA</td>
<td>2.27</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:566:LEU:O</td>
<td>4:B:569:TYR:HB2</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:639:ILE:HD11</td>
<td>4:B:691:GLU:HG3</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>5:C:73:GLN:HE21</td>
<td>5:C:75:MET:HB2</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>6:E:117:THR:O</td>
<td>6:E:120:ALA:HB3</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1325:THR:O</td>
<td>6:E:147:HIS:ND1</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>6:E:95:THR:O</td>
<td>6:E:95:THR:HG22</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:1331:SER:HG</td>
<td>3:A:1333:ILE:HG22</td>
<td>1.84</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:401:GLY:CA</td>
<td>3:A:435:HIS:CD2</td>
<td>3.01</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>3:A:518:LYS:HB2</td>
<td>3:A:519:PRO:HD2</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:76:GLU:O</td>
<td>3:A:76:GLU:OE2</td>
<td>2.37</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:921:GLY:C</td>
<td>3:A:922:ASP:O</td>
<td>2.57</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:928:LEU:O</td>
<td>3:A:930:ASP:N</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:1196:ILE:HD13</td>
<td>4:B:1196:ILE:N</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:26:THR:O</td>
<td>4:B:27:ALA:C</td>
<td>2.57</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:297:ILE:HG22</td>
<td>4:B:298:LEU:N</td>
<td>2.34</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:360:PHE:CD1</td>
<td>4:B:361:LEU:HD13</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:554:ILE:HG22</td>
<td>4:B:555:ILE:N</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:737:THR:O</td>
<td>4:B:738:PHE:C</td>
<td>2.58</td>
<td>0.43</td>
</tr>
<tr>
<td>4:B:638:PHE:O</td>
<td>4:B:740:HIS:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>5:C:35:ARG:HB2</td>
<td>5:C:36:VAL:H</td>
<td>1.67</td>
<td>0.43</td>
</tr>
<tr>
<td>6:E:79:TRP:CE3</td>
<td>6:E:79:TRP:HA</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>7:F:97:ARG:NH2</td>
<td>7:F:124:GLU:OE2</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>11:K:42:LEU:O</td>
<td>11:K:43:GLY:C</td>
<td>2.58</td>
<td>0.43</td>
</tr>
<tr>
<td>11:K:61:TYR:CD1</td>
<td>11:K:62:LYS:N</td>
<td>2.86</td>
<td>0.43</td>
</tr>
<tr>
<td>3:A:494:SER:HB2</td>
<td>3:A:496:GLU:HG3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:924:LYS:HB2</td>
<td>3:A:924:LYS:HE3</td>
<td>1.57</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1131:GLY:C</td>
<td>4:B:1133:MET:N</td>
<td>2.71</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:294:ASP:H</td>
<td>9:I:12:ASN:HD21</td>
<td>1.67</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:914:LYS:H</td>
<td>4:B:938:SER:HB3</td>
<td>1.83</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:911:ILE:HD11</td>
<td>4:B:941:LEU:HG</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>8:H:47:PHE:CD2</td>
<td>8:H:95:TYR:CD1</td>
<td>3.04</td>
<td>0.42</td>
</tr>
<tr>
<td>11:K:44:ASN:HA</td>
<td>11:K:61:TYR:HE2</td>
<td>1.84</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:320:ARG:NH2</td>
<td>4:B:471:LYS:N</td>
<td>2.67</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:671:ALA:O</td>
<td>3:A:672:ASP:C</td>
<td>2.56</td>
<td>0.42</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>3:A:587:HIS:HE1</td>
<td>3:A:969:GLN:HG2</td>
<td>1.83</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1084:GLN:CB</td>
<td>5:C:201:TRP:HH2</td>
<td>2.32</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1116:ARG:HG3</td>
<td>4:B:1198:TYR:CG</td>
<td>2.52</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:124:TYR:OH</td>
<td>4:B:179:CYS:CA</td>
<td>2.62</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:349:ILE:O</td>
<td>4:B:350:GLN:O</td>
<td>2.37</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:376:PHE:CE2</td>
<td>4:B:569:TYR:CD2</td>
<td>3.01</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:410:GLY:O</td>
<td>4:B:412:LEU:N</td>
<td>2.52</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:53:GLN:CG</td>
<td>4:B:53:GLN:O</td>
<td>2.67</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:653:VAL:HG12</td>
<td>4:B:654:ARG:H</td>
<td>1.84</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:970:THR:HG22</td>
<td>4:B:971:THR:N</td>
<td>2.34</td>
<td>0.42</td>
</tr>
<tr>
<td>7:F:77:ASP:HB3</td>
<td>7:F:78:GLN:H</td>
<td>1.60</td>
<td>0.42</td>
</tr>
<tr>
<td>9:I:85:PHE:CD1</td>
<td>9:I:86:PHE:N</td>
<td>2.87</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1084:GLN:CD</td>
<td>4:B:1084:GLN:N</td>
<td>2.68</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1099:VAL:O</td>
<td>4:B:1101:ASP:N</td>
<td>2.52</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:449:ASN:HD21</td>
<td>4:B:451:LYS:CD</td>
<td>2.33</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:702:LEU:HA</td>
<td>4:B:702:LEU:HD12</td>
<td>1.46</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:166:GLU:HG3</td>
<td>11:K:10:PHE:HZ</td>
<td>1.82</td>
<td>0.42</td>
</tr>
<tr>
<td>6:E:175:LEU:HB3</td>
<td>6:E:213:ILE:HG22</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>10:J:14:VAL:C</td>
<td>10:J:16:ASP:H</td>
<td>2.22</td>
<td>0.42</td>
</tr>
<tr>
<td>12:L:34:CYS:O</td>
<td>12:L:35:SER:CB</td>
<td>2.67</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:1354:ASN:HA</td>
<td>3:A:1357:ALA:HB3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:320:ARG:NH2</td>
<td>4:B:470:LYS:C</td>
<td>2.73</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:910:PRO:HB3</td>
<td>3:A:916:GLY:HA3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1059:LEU:CD1</td>
<td>4:B:1064:TYR:HB2</td>
<td>2.49</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1099:VAL:HG23</td>
<td>4:B:1099:VAL:H</td>
<td>1.50</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:343:LYS:HD3</td>
<td>4:B:1155:SER:OG</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:92:PHE:HD2</td>
<td>4:B:130:VAL:HG11</td>
<td>1.84</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>4:B:165:VAL:HG13</td>
<td>4:B:166:PHE:N</td>
<td>2.35</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:745:PRO:O</td>
<td>4:B:748:ILE:HG12</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:134:ILE:HD12</td>
<td>5:C:141:GLY:HA3</td>
<td>1.72</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:46:ILE:CD1</td>
<td>5:C:159:ALA:HB2</td>
<td>2.30</td>
<td>0.42</td>
</tr>
<tr>
<td>8:H:40:LEU:HD12</td>
<td>8:H:40:LEU:HA</td>
<td>1.86</td>
<td>0.42</td>
</tr>
<tr>
<td>10:J:7:CYS:SG</td>
<td>10:J:10:CYS:N</td>
<td>2.90</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:941:LYS:O</td>
<td>3:A:943:LEU:N</td>
<td>2.52</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1059:LEU:HD23</td>
<td>4:B:1066:SER:HA</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:297:ILE:O</td>
<td>4:B:299:GLU:N</td>
<td>2.52</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:417:PHE:O</td>
<td>4:B:418:LYS:O</td>
<td>2.37</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:542:MET:CE</td>
<td>4:B:747:MET:HG3</td>
<td>2.49</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:783:THR:HG22</td>
<td>10:J:63:TYR:CE1</td>
<td>2.45</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:69:LEU:HD12</td>
<td>5:C:169:LYS:HB3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:261:ALA:HA</td>
<td>5:C:264:GLN:HG3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:62:PHE:HD2</td>
<td>5:C:62:PHE:C</td>
<td>2.22</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:190:TYR:CE1</td>
<td>10:J:62:ARG:HG2</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>11:K:45:LEU:HA</td>
<td>11:K:45:LEU:HD12</td>
<td>1.61</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:1227:ILE:C</td>
<td>3:A:1228:TRP:CE3</td>
<td>2.93</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:803:LEU:O</td>
<td>4:B:1042:GLY:HA3</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:759:PRO:CD</td>
<td>4:B:1046:PRO:HG3</td>
<td>2.43</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1053:GLU:O</td>
<td>4:B:1055:ILE:N</td>
<td>2.53</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:802:PRO:CB</td>
<td>4:B:1091:TYR:CD1</td>
<td>3.03</td>
<td>0.42</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:110:HIS:CD2</td>
<td>4:B:111:ALA:N</td>
<td>2.88</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1139:ILE:H</td>
<td>4:B:1139:ILE:HG13</td>
<td>1.61</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:167:ILE:CG2</td>
<td>4:B:424:LEU:CD1</td>
<td>2.76</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:527:THR:OG1</td>
<td>4:B:528:PRO:CD</td>
<td>2.65</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:606:LYS:HB2</td>
<td>4:B:606:LYS:HE3</td>
<td>1.88</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:781:PHE:CE1</td>
<td>4:B:782:LEU:HD12</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:954:VAL:HA</td>
<td>4:B:963:PHE:O</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:957:ASN:HD22</td>
<td>4:B:958:GLN:N</td>
<td>2.16</td>
<td>0.42</td>
</tr>
<tr>
<td>8:H:93:TYR:HD2</td>
<td>8:H:145:ARG:HD3</td>
<td>1.82</td>
<td>0.42</td>
</tr>
<tr>
<td>8:H:32:THR:CG2</td>
<td>8:H:33:GLN:H</td>
<td>2.26</td>
<td>0.42</td>
</tr>
<tr>
<td>8:H:82:PRO:C</td>
<td>8:H:84:ALA:H</td>
<td>2.10</td>
<td>0.42</td>
</tr>
<tr>
<td>8:H:89:LEU:HB2</td>
<td>8:H:91:ASP:CB</td>
<td>2.49</td>
<td>0.42</td>
</tr>
<tr>
<td>9:I:75:CYS:CB</td>
<td>9:I:103:CYS:HB2</td>
<td>2.49</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:939:ASP:HA</td>
<td>3:A:942:PHE:HB3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1023:VAL:O</td>
<td>4:B:1024:ALA:C</td>
<td>2.57</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:102:VAL:CG2</td>
<td>4:B:112:LEU:CD2</td>
<td>2.88</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1032:SER:C</td>
<td>4:B:1089:PRO:HG2</td>
<td>2.40</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:114:PRO:HG3</td>
<td>4:B:181:LEU:HD12</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:478:GLY:C</td>
<td>4:B:479:VAL:O</td>
<td>2.45</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:724:ASP:HA</td>
<td>4:B:725:PRO:HD2</td>
<td>1.88</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:815:ARG:H</td>
<td>4:B:815:ARG:HG2</td>
<td>1.63</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:821:GLN:CD</td>
<td>4:B:851:PHE:H</td>
<td>2.22</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:911:ILE:HD11</td>
<td>4:B:941:LEU:CG</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:37:MET:SD</td>
<td>5:C:232:VAL:CG2</td>
<td>3.04</td>
<td>0.42</td>
</tr>
<tr>
<td>7:F:120:ILE:HG22</td>
<td>7:F:121:ALA:H</td>
<td>1.81</td>
<td>0.42</td>
</tr>
<tr>
<td>10:J:54:VAL:O</td>
<td>10:J:56:LEU:N</td>
<td>2.49</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:1362:TYR:CE1</td>
<td>3:A:1364:ASN:HA</td>
<td>2.54</td>
<td>0.42</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>4:B:1006:ILE:HG23</td>
<td>4:B:1007:VAL:N</td>
<td>2.34</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:107:GLY:C</td>
<td>4:B:108:VAL:O</td>
<td>2.57</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1162:ILE:HD13</td>
<td>4:B:1168:LEU:O</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:325:ILE:CG2</td>
<td>4:B:1210:MET:SD</td>
<td>3.08</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:170:LEU:HA</td>
<td>4:B:171:PRO:HD2</td>
<td>1.50</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:276:ILE:CG2</td>
<td>4:B:277:LYS:N</td>
<td>2.81</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:360:PHE:C</td>
<td>4:B:362:PRO:HD3</td>
<td>2.40</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:722:ASP:OD1</td>
<td>4:B:722:ASP:N</td>
<td>2.51</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:796:LEU:O</td>
<td>4:B:799:PRO:CD</td>
<td>2.68</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:906:SER:O</td>
<td>4:B:909:ASP:CG</td>
<td>2.58</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:31:ASN:O</td>
<td>5:C:34:ARG:N</td>
<td>2.53</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:61:GLU:O</td>
<td>5:C:64:ALA:HB3</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:66:ARG:NH1</td>
<td>10:I:2:ILE:HG21</td>
<td>2.35</td>
<td>0.42</td>
</tr>
<tr>
<td>9:I:9:ASP:OD1</td>
<td>9:I:9:ASP:N</td>
<td>2.52</td>
<td>0.42</td>
</tr>
<tr>
<td>10:I:8:PHE:N</td>
<td>10:I:49:MET:HE3</td>
<td>2.35</td>
<td>0.42</td>
</tr>
<tr>
<td>11:K:83:PRO:O</td>
<td>11:K:86:ALA:N</td>
<td>2.52</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1106:ARG:HE</td>
<td>4:B:1109:GLY:N</td>
<td>2.18</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:1192:TYR:CD2</td>
<td>4:B:1218:THR:HG21</td>
<td>2.55</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:230:ALA:C</td>
<td>4:B:232:SER:H</td>
<td>2.22</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:349:ILE:O</td>
<td>4:B:352:ALA:N</td>
<td>2.49</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:361:LEU:N</td>
<td>4:B:362:PRO:HD2</td>
<td>2.33</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:482:VAL:CG2</td>
<td>4:B:482:VAL:O</td>
<td>2.58</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:581:PHE:CB</td>
<td>4:B:625:LYS:HG2</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:638:PHE:HE1</td>
<td>4:B:743:ILE:HA</td>
<td>1.81</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:778:MET:HE3</td>
<td>4:B:853:SER:HB3</td>
<td>1.97</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:153:LEU:HA</td>
<td>5:C:153:LEU:HD13</td>
<td>1.72</td>
<td>0.42</td>
</tr>
<tr>
<td>6:E:78:LEU:HD23</td>
<td>6:E:78:LEU:O</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>8:H:104:PHE:CE2</td>
<td>8:H:136:LYS:HA</td>
<td>2.54</td>
<td>0.42</td>
</tr>
<tr>
<td>11:K:103:THR:O</td>
<td>11:K:106:GLU:HB2</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>11:K:40:HIS:O</td>
<td>11:K:41:THR:C</td>
<td>2.57</td>
<td>0.42</td>
</tr>
<tr>
<td>11:K:47:ARG:NH1</td>
<td>11:K:47:ARG:C</td>
<td>2.71</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>3:A:1441:PHE:HB2</td>
<td>7:F:134:ILE:HG23</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:189:LEU:C</td>
<td>4:B:191:LYS:N</td>
<td>2.69</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:166:PHE:HE2</td>
<td>4:B:450:ALA:CB</td>
<td>2.33</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:563:MET:CE</td>
<td>4:B:588:GLY:CA</td>
<td>2.98</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:620:ARG:NH2</td>
<td>9:I:89:GLN:NE2</td>
<td>2.67</td>
<td>0.42</td>
</tr>
<tr>
<td>4:B:95:ILE:HA</td>
<td>4:B:129:PHE:O</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:38:ILE:HG12</td>
<td>5:C:176:ILE:CD1</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:206:ASN:ND2</td>
<td>5:C:229:TYR:CD2</td>
<td>2.88</td>
<td>0.42</td>
</tr>
<tr>
<td>5:C:43:THR:HG22</td>
<td>5:C:44:LEU:N</td>
<td>2.34</td>
<td>0.42</td>
</tr>
<tr>
<td>8:H:93:TYR:HA</td>
<td>8:H:145:ARG:HB3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:540:PHE:CE1</td>
<td>8:H:43:ASN:ND2</td>
<td>2.88</td>
<td>0.42</td>
</tr>
<tr>
<td>2:T:11:DC:C2'</td>
<td>2:T:12:DG:H8</td>
<td>2.31</td>
<td>0.42</td>
</tr>
<tr>
<td>3:A:184:SER:OG</td>
<td>3:A:185:TRP:N</td>
<td>2.52</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:662:PHE:CE1</td>
<td>3:A:742:ASN:HB3</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:787:PHE:HD2</td>
<td>3:A:796:SER:HA</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:753:ALA:O</td>
<td>4:B:755:ILE:N</td>
<td>2.53</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:844:SER:O</td>
<td>4:B:847:ASP:HB2</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:848:ARG:NH2</td>
<td>4:B:996:ARG:NH1</td>
<td>2.68</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:569:LYS:CD</td>
<td>5:C:221:TYR:O</td>
<td>2.68</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:27:LEU:HA</td>
<td>5:C:228:PHE:CE2</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:37:MET:HE2</td>
<td>5:C:37:MET:HB2</td>
<td>1.79</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:1340:GLY:HA2</td>
<td>6:E:183:PRO:HG2</td>
<td>2.01</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>9:I:26:LEU:HD23</td>
<td>9:I:26:LEU:HA</td>
<td>1.65</td>
<td>0.41</td>
</tr>
<tr>
<td>11:K:5:ASP:HB3</td>
<td>11:K:7:PHE:CE2</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:1156:PRO:CG</td>
<td>3:A:1157:ASP:N</td>
<td>2.84</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:265:LYS:HE3</td>
<td>3:A:323:LYS:HG2</td>
<td>1.97</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:997:LEU:O</td>
<td>3:A:1053:PHE:CD2</td>
<td>2.73</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1085:ILE:CG2</td>
<td>4:B:1086:PHE:N</td>
<td>2.83</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1106:ARG:HH21</td>
<td>4:B:1109:GLY:CA</td>
<td>2.33</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:291:ILE:CD1</td>
<td>4:B:291:ILE:N</td>
<td>2.80</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:431:TYR:CD1</td>
<td>4:B:447:ALA:HB1</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:51:PHE:O</td>
<td>4:B:54:PHE:CB</td>
<td>2.68</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:664:THR:HG22</td>
<td>4:B:664:THR:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:769:TYR:C</td>
<td>4:B:771:SER:N</td>
<td>2.73</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:843:GLN:HB2</td>
<td>4:B:993:THR:OG1</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:141:GLY:C</td>
<td>5:C:142:VAL:O</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:53:PRO:O</td>
<td>6:E:55:ARG:N</td>
<td>2.52</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:65:THR:O</td>
<td>6:E:67:GLU:N</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>7:F:94:LEU:HA</td>
<td>7:F:94:LEU:HD23</td>
<td>1.69</td>
<td>0.41</td>
</tr>
<tr>
<td>9:I:40:SER:HB2</td>
<td>9:I:41:PRO:HD3</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>11:K:3:ALA:HA</td>
<td>11:K:4:PRO:HD3</td>
<td>1.76</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:1004:ASN:ND2</td>
<td>6:E:167:ARG:CG</td>
<td>2.84</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:100:LYS:HB3</td>
<td>3:A:100:LYS:HZ1</td>
<td>1.83</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:1348:LEU:HA</td>
<td>3:A:1348:LEU:HD12</td>
<td>1.73</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:147:VAL:HB</td>
<td>3:A:149:GLU:N</td>
<td>2.36</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:208:LEU:HD22</td>
<td>3:A:212:LYS:HG3</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:38:PRO:N</td>
<td>3:A:270:LEU:HD22</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:381:THR:CB</td>
<td>3:A:382:PRO:HD2</td>
<td>2.49</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:783:THR:HG23</td>
<td>3:A:815:PHE:HE2</td>
<td>1.84</td>
<td>0.41</td>
</tr>
<tr>
<td>1:R:9:G:H5'</td>
<td>4:B:1097:HIS:NE2</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:179:CYS:C</td>
<td>4:B:181:LEU:N</td>
<td>2.74</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:474:SER:HA</td>
<td>4:B:476:ARG:NE</td>
<td>2.35</td>
<td>0.41</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:982:SER:HB2</td>
<td>4:B:983:ARG:H</td>
<td>1.56</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:238:ILE:CG2</td>
<td>5:C:242:GLN:HB2</td>
<td>2.49</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:35:ARG:O</td>
<td>5:C:38:ILE:HB</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:78:LEU:CG</td>
<td>6:E:107:THR:HG22</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>7:F:74:ILE:CG2</td>
<td>7:F:75:PRO:HD2</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>8:H:58:THR:CG2</td>
<td>8:H:59:ILE:N</td>
<td>2.81</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:1286:LYS:HB2</td>
<td>3:A:1304:TRP:CH2</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:1289:ARG:HG2</td>
<td>3:A:1291:VAL:HG23</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:399:HIS:CG</td>
<td>3:A:400:PRO:N</td>
<td>2.88</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:608:ILE:HG12</td>
<td>3:A:613:ILE:CG1</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1027:ILE:H</td>
<td>4:B:1027:ILE:HG13</td>
<td>1.54</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1035:ALA:O</td>
<td>4:B:1039:GLY:N</td>
<td>2.44</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1106:ARG:HG3</td>
<td>4:B:1107:ALA:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:225:VAL:HG11</td>
<td>4:B:385:LEU:HA</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:427:ASP:CA</td>
<td>4:B:430:ARG:HD2</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:431:TYR:CG</td>
<td>4:B:447:ALA:CB</td>
<td>3.03</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:746:SER:O</td>
<td>4:B:749:LEU:HB2</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:149:LEU:O</td>
<td>6:E:151:PRO:HD3</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>7:F:81:THR:O</td>
<td>7:F:82:THR:O</td>
<td>2.38</td>
<td>0.41</td>
</tr>
<tr>
<td>8:H:25:ARG:HB2</td>
<td>8:H:25:ARG:HE</td>
<td>1.29</td>
<td>0.41</td>
</tr>
<tr>
<td>10:I:43:ARG:HD2</td>
<td>10:J:45:CYS:SG</td>
<td>2.60</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:548:ASN:OD1</td>
<td>11:K:60:ALA:HB1</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>12:L:46:VAL:HG12</td>
<td>12:L:47:ARG:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:368:LYS:HA</td>
<td>3:A:462:VAL:CG1</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:491:VAL:HG13</td>
<td>3:A:492:PRO:HD2</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:751:SER:O</td>
<td>3:A:752:LYS:HG2</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:393:LYS:HE3</td>
<td>9:I:89:GLN:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:575:PRO:C</td>
<td>4:B:577:ALA:N</td>
<td>2.71</td>
<td>0.41</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4:B:685:LEU:HD13</td>
<td>4:B:690:VAL:HG12</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:879:ARG:HB2</td>
<td>4:B:880:THR:H</td>
<td>1.02</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:51:VAL:HG13</td>
<td>5:C:155:LEU:HD23</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:231:ASN:C</td>
<td>5:C:231:ASN:ND2</td>
<td>2.74</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:35:VAL:HG12</td>
<td>6:E:36:GLU:N</td>
<td>2.36</td>
<td>0.41</td>
</tr>
<tr>
<td>8:H:18:GLY:O</td>
<td>8:H:19:ARG:O</td>
<td>2.39</td>
<td>0.41</td>
</tr>
<tr>
<td>8:H:89:LEU:HB2</td>
<td>8:H:91:ASP:OD1</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>10:J:14:VAL:O</td>
<td>10:J:16:ASP:N</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>10:J:1:MET:N</td>
<td>10:J:56:LEU:H</td>
<td>2.18</td>
<td>0.41</td>
</tr>
<tr>
<td>10:J:37:SER:OG</td>
<td>10:J:47:ARG:NH2</td>
<td>2.53</td>
<td>0.41</td>
</tr>
<tr>
<td>10:J:5:VAL:HG12</td>
<td>10:J:6:ARG:CG</td>
<td>2.38</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:302:THR:CB</td>
<td>3:A:313:GLN:NE2</td>
<td>2.83</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:518:LYS:HG3</td>
<td>3:A:519:PRO:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:709:THR:O</td>
<td>3:A:712:GLU:N</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:818:MET:HA</td>
<td>4:B:514:LEU:HB3</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1135:ARG:O</td>
<td>4:B:1139:ILE:HG13</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1196:ILE:CB</td>
<td>4:B:1197:PRO:CD</td>
<td>2.96</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:236:HIS:CD2</td>
<td>4:B:389:ALA:CA</td>
<td>3.04</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:322:PHE:CZ</td>
<td>9:I:30:ARG:CD</td>
<td>2.92</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:428:ILE:O</td>
<td>4:B:432:MET:HE2</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:563:MET:O</td>
<td>4:B:564:GLU:C</td>
<td>2.57</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:685:LEU:CD1</td>
<td>4:B:690:VAL:HG12</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:104:PHE:HA</td>
<td>5:C:151:GLN:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:181:ASP:CB</td>
<td>5:C:186:LEU:HD13</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:260:LEU:HD11</td>
<td>5:C:264:GLN:HE21</td>
<td>1.86</td>
<td>0.41</td>
</tr>
<tr>
<td>8:H:100:THR:HG22</td>
<td>8:H:101:ALA:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>8:H:36:CYS:HB2</td>
<td>8:H:130:ARG:HH22</td>
<td>1.86</td>
<td>0.41</td>
</tr>
<tr>
<td>11:K:34:THR:CG2</td>
<td>11:K:35:PHE:N</td>
<td>2.83</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>3:A:904:THR:O</td>
<td>3:A:906:HIS:N</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:272:THR:O</td>
<td>4:B:273:LEU:HG</td>
<td>2.19</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:294:ASP:N</td>
<td>9:I:12:ASN:HD21</td>
<td>2.18</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:311:LEU:HA</td>
<td>4:B:311:LEU:HD23</td>
<td>1.78</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:473:MET:O</td>
<td>4:B:475:SER:N</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:737:THR:CG2</td>
<td>9:I:66:PRO:CA</td>
<td>2.98</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:781:PHE:CD1</td>
<td>4:B:782:LEU:HD12</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:244:VAL:HG23</td>
<td>5:C:245:VAL:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:24:LYS:HG2</td>
<td>6:E:25:ASP:N</td>
<td>2.34</td>
<td>0.41</td>
</tr>
<tr>
<td>8:H:135:LEU:HD13</td>
<td>8:H:137:GLN:NE2</td>
<td>2.36</td>
<td>0.41</td>
</tr>
<tr>
<td>8:H:19:ARG:O</td>
<td>8:H:20:TYR:CG</td>
<td>2.74</td>
<td>0.41</td>
</tr>
<tr>
<td>11:K:50:LEU:CD1</td>
<td>11:K:73:LEU:HD21</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:1172:LEU:N</td>
<td>3:A:1172:LEU:CD2</td>
<td>2.78</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:596:THR:C</td>
<td>3:A:598:LEU:N</td>
<td>2.73</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:878:ILE:C</td>
<td>3:A:879:GLU:HG3</td>
<td>2.41</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1060:ARG:O</td>
<td>4:B:1061:GLU:C</td>
<td>2.59</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1177:HIS:O</td>
<td>4:B:1179:GLN:HG3</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1184:GLY:O</td>
<td>4:B:1186:ASP:CG</td>
<td>2.59</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:179:CY5:S:C</td>
<td>4:B:181:LEU:H</td>
<td>2.24</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:487:THR:HG22</td>
<td>4:B:489:SER:H</td>
<td>1.84</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:44:VAL:HG11</td>
<td>4:B:495:LEU:HD13</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:898:LEU:O</td>
<td>4:B:899:ILE:C</td>
<td>2.59</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:117:ASP:N</td>
<td>5:C:117:ASP:OD1</td>
<td>2.53</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:129:ILE:O</td>
<td>5:C:131:HIS:HD2</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1084:GLN:CG</td>
<td>5:C:201:TRP:CH2</td>
<td>3.02</td>
<td>0.41</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5:C:245:VAL:C</td>
<td>5:C:247:GLY:N</td>
<td>2.73</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:78:LEU:HG</td>
<td>6:E:107:THR:HG22</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:118:PRO:O</td>
<td>6:E:122:LYS:CD</td>
<td>2.68</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:202:SER:C</td>
<td>6:E:204:THR:HG</td>
<td>2.24</td>
<td>0.41</td>
</tr>
<tr>
<td>7:F:101:ILE:HG21</td>
<td>7:F:120:ILE:HG21</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>7:F:77:ASP:O</td>
<td>7:F:78:GLN:C</td>
<td>2.59</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:1155:ASP:CG</td>
<td>3:A:1162:VAL:HG23</td>
<td>2.41</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:306:ASN:OD1</td>
<td>3:A:313:GLN:NE2</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:62:ASP:O</td>
<td>3:A:64:ASN:N</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1027:ILE:O</td>
<td>4:B:1028:GLU:C</td>
<td>2.59</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1067:ARG:HB2</td>
<td>4:B:1069:PHE:CD1</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:281:PRO:HG2</td>
<td>4:B:320:ASP:OD2</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:43:LEU:HA</td>
<td>4:B:43:LEU:HD23</td>
<td>1.64</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:485:ARG:NH1</td>
<td>4:B:485:ARG:CG</td>
<td>2.76</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:563:MET:HE1</td>
<td>4:B:588:GLY:CA</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:953:LEU:O</td>
<td>4:B:964:VAL:HA</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:957:ASN:C</td>
<td>4:B:957:ASN:HD22</td>
<td>2.24</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:31:ASN:C</td>
<td>5:C:33:LEU:N</td>
<td>2.74</td>
<td>0.41</td>
</tr>
<tr>
<td>9:I:5:ARG:HD3</td>
<td>9:I:36:GLU:OE2</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:737:THR:HG21</td>
<td>9:I:66:PRO:CA</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>11:K:86:ALA:O</td>
<td>11:K:90:ALA:HB2</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:1191:TRP:CZ2</td>
<td>3:A:1257:ASP:OD1</td>
<td>2.74</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:453:MET:HB3</td>
<td>3:A:477:PRO:HB2</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:50:ILE:O</td>
<td>3:A:52:GLY:N</td>
<td>2.54</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:990:VAL:HG12</td>
<td>3:A:991:LYS:N</td>
<td>2.36</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>4:B:1104:HIS:HB2</td>
<td>4:B:1122:ARG:CB</td>
<td>2.41</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1217:TYR:N</td>
<td>4:B:1217:TYR:CD1</td>
<td>2.89</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:474:SER:HA</td>
<td>4:B:476:ARG:HE</td>
<td>1.86</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:476:ARG:C</td>
<td>4:B:478:GLY:N</td>
<td>2.73</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:545:ILE:C</td>
<td>4:B:634:TYR:HE2</td>
<td>2.25</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:36:ALA:HB2</td>
<td>4:B:661:LEU:HD22</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:701:ILE:CG1</td>
<td>4:B:703:ILE:HG13</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:705:MET:H</td>
<td>4:B:710:LEU:HD11</td>
<td>1.86</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:786:HIS:CE1</td>
<td>4:B:742:GLU:OE1</td>
<td>2.74</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:792:MET:O</td>
<td>4:B:793:ALA:HB2</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:893:LEU:HD23</td>
<td>4:B:897:GLY:O</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:119:VAL:O</td>
<td>5:C:119:VAL:CG1</td>
<td>2.69</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:245:VAL:O</td>
<td>5:C:247:GLY:N</td>
<td>2.53</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:6:PRO:O</td>
<td>5:C:7:GLN:HG2</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:32:GLN:CG</td>
<td>6:E:32:GLN:O</td>
<td>2.69</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:43:LYS:HA</td>
<td>6:E:47:CYS:SG</td>
<td>2.61</td>
<td>0.41</td>
</tr>
<tr>
<td>11:K:50:LEU:CD2</td>
<td>11:K:75:ILE:HG13</td>
<td>2.44</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:1410:PHE:C</td>
<td>3:A:1412:ALA:N</td>
<td>2.71</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:144:THR:O</td>
<td>3:A:146:MET:HE2</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:660:ASN:ND2</td>
<td>4:B:1082:MET:CB</td>
<td>2.84</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:808:LEU:CD2</td>
<td>3:A:816:HIS:HD2</td>
<td>2.34</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1096:ARG:CG</td>
<td>4:B:1097:HIS:N</td>
<td>2.84</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:1168:LEU:C</td>
<td>4:B:1170:THR:N</td>
<td>2.74</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:457:LEU:HD23</td>
<td>4:B:457:LEU:HA</td>
<td>1.71</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:472:ALA:O</td>
<td>4:B:473:MET:C</td>
<td>2.59</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:554:ILE:HA</td>
<td>4:B:554:ILE:HD13</td>
<td>1.86</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:541:LEU:HB2</td>
<td>4:B:747:MET:HE3</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:802:PRO:HA</td>
<td>4:B:1091:TYR:CD1</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:488:TYR:CE2</td>
<td>4:B:813:LYS:HB2</td>
<td>2.56</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>4:B:953:LEU:HD23</td>
<td>4:B:953:LEU:C</td>
<td>2.42</td>
<td>0.41</td>
</tr>
<tr>
<td>4:B:992:ILE:HG13</td>
<td>4:B:993:THR:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>5:C:63:ILE:O</td>
<td>5:C:66:ARG:N</td>
<td>2.46</td>
<td>0.41</td>
</tr>
<tr>
<td>6:E:147:HIS:O</td>
<td>6:E:150:VAL:N</td>
<td>2.38</td>
<td>0.41</td>
</tr>
<tr>
<td>7:F:109:VAL:HG11</td>
<td>7:F:123:LYS:HG2</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>7:F:133:VAL:HG22</td>
<td>7:F:146:TRP:C</td>
<td>2.42</td>
<td>0.41</td>
</tr>
<tr>
<td>10:J:50:ILE:C</td>
<td>10:J:52:THR:H</td>
<td>2.25</td>
<td>0.41</td>
</tr>
<tr>
<td>11:K:31:VAL:HG13</td>
<td>11:K:32:VAL:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>11:K:83:PRO:HA</td>
<td>11:K:86:ALA:CB</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>3:A:265:LYS:HZ2</td>
<td>3:A:322:VAL:HB</td>
<td>1.84</td>
<td>0.40</td>
</tr>
<tr>
<td>3:A:804:TYR:O</td>
<td>4:B:761:HIS:HB3</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:113:TYR:HA</td>
<td>4:B:114:PRO:HD2</td>
<td>1.98</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:1170:THR:HG23</td>
<td>4:B:1183:LYS:NZ</td>
<td>2.35</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:225:VAL:O</td>
<td>4:B:226:PHE:CD2</td>
<td>2.74</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:230:ALA:O</td>
<td>4:B:261:ARG:HD2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:297:ILE:HA</td>
<td>4:B:297:ILE:HD13</td>
<td>1.70</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:430:ARG:C</td>
<td>4:B:431:TYR:O</td>
<td>2.55</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:461:LEU:HD11</td>
<td>4:B:466:TRP:CH2</td>
<td>2.52</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:582:VAL:HG22</td>
<td>4:B:626:ILE:HB</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:956:THR:HA</td>
<td>4:B:961:LEU:O</td>
<td>2.22</td>
<td>0.40</td>
</tr>
<tr>
<td>7:F:83:PRO:HD2</td>
<td>7:F:84:TYR:H</td>
<td>1.84</td>
<td>0.40</td>
</tr>
<tr>
<td>8:H:107:VAL:C</td>
<td>8:H:108:SER:O</td>
<td>2.57</td>
<td>0.40</td>
</tr>
<tr>
<td>9:I:58:VAL:C</td>
<td>9:I:59:VAL:HG23</td>
<td>2.41</td>
<td>0.40</td>
</tr>
<tr>
<td>10:J:3:VAL:N</td>
<td>10:J:53:HIS:CE1</td>
<td>2.89</td>
<td>0.40</td>
</tr>
<tr>
<td>10:J:57:ILE:O</td>
<td>10:J:59:LYS:N</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>11:K:24:ASP:CG</td>
<td>11:K:74:ARG:NH1</td>
<td>2.74</td>
<td>0.40</td>
</tr>
<tr>
<td>3:A:1077:THR:O</td>
<td>3:A:1078:GLN:NE2</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>3:A:598:LEU:O</td>
<td>3:A:600:PRO:N</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:1131:GLY:O</td>
<td>4:B:1134:GLU:N</td>
<td>2.53</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>4:B:493:SER:HB2</td>
<td>4:B:751:VAL:HG11</td>
<td>2.02</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:499:ASN:OD1</td>
<td>4:B:500:THR:N</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:694:ASP:O</td>
<td>4:B:697:GLU:N</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:791:THR:O</td>
<td>4:B:792:MET:O</td>
<td>2.38</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:800:GLN:HG3</td>
<td>10:J:52:THR:CB</td>
<td>2.52</td>
<td>0.40</td>
</tr>
<tr>
<td>5:C:16:ASP:O</td>
<td>5:C:233:GLU:HA</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>5:C:186:LEU:N</td>
<td>5:C:186:LEU:HD12</td>
<td>2.36</td>
<td>0.40</td>
</tr>
<tr>
<td>10:J:43:ARG:O</td>
<td>10:J:47:ARG:N</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>3:A:369:SER:CB</td>
<td>11:K:2:ASN:OD1</td>
<td>2.69</td>
<td>0.40</td>
</tr>
<tr>
<td>2:T:4:DA:H3'</td>
<td>2:T:4:DA:P</td>
<td>2.60</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:369:GLY:C</td>
<td>4:B:370:PHE:HD1</td>
<td>2.24</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:429:PHE:C</td>
<td>4:B:433:GLN:OE1</td>
<td>2.60</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:461:LEU:HD12</td>
<td>4:B:466:TRP:CH2</td>
<td>2.54</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:512:ARG:HB3</td>
<td>4:B:533:CYS:O</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>5:C:196:ASP:C</td>
<td>5:C:198:ALA:N</td>
<td>2.74</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:847:ASP:O</td>
<td>5:C:65:HIS:HE1</td>
<td>2.04</td>
<td>0.40</td>
</tr>
<tr>
<td>6:E:79:TRP:HE3</td>
<td>6:E:79:TRP:HA</td>
<td>1.85</td>
<td>0.40</td>
</tr>
<tr>
<td>8:H:16:ASP:HA</td>
<td>8:H:17:PRO:HD2</td>
<td>1.75</td>
<td>0.40</td>
</tr>
<tr>
<td>8:H:25:ARG:HB2</td>
<td>8:H:41:ASP:OD1</td>
<td>2.20</td>
<td>0.40</td>
</tr>
<tr>
<td>3:A:567:LYS:HD3</td>
<td>8:H:95:TYR:CA</td>
<td>2.51</td>
<td>0.40</td>
</tr>
<tr>
<td>3:A:567:LYS:CB</td>
<td>8:H:95:TYR:HA</td>
<td>2.52</td>
<td>0.40</td>
</tr>
<tr>
<td>11:K:58:PHE:CE2</td>
<td>11:K:74:ARG:NE</td>
<td>2.61</td>
<td>0.40</td>
</tr>
<tr>
<td>12:L:53:HIS:C</td>
<td>12:L:55:ILE:N</td>
<td>2.73</td>
<td>0.40</td>
</tr>
<tr>
<td>3:A:1329:THR:C</td>
<td>3:A:1331:SER:N</td>
<td>2.75</td>
<td>0.40</td>
</tr>
<tr>
<td>3:A:312:PRO:C</td>
<td>3:A:313:GLN:HG3</td>
<td>2.30</td>
<td>0.40</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>4:B:212:LEU:HD23</td>
<td>4:B:212:LEU:HA</td>
<td>1.70</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:425:THR:HG22</td>
<td>4:B:425:THR:HA</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:518:HIS:HD2</td>
<td>4:B:518:HIS:HG2</td>
<td>1.86</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:529:GLU:HG3</td>
<td>4:B:529:GLU:HG1</td>
<td>1.64</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:628:THR:HB</td>
<td>4:B:628:THR:HG2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:994:TYR:OH</td>
<td>4:B:994:TYR:HA</td>
<td>2.70</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:849:GLY:HG</td>
<td>4:B:849:GLY:HA</td>
<td>2.25</td>
<td>0.40</td>
</tr>
<tr>
<td>6:E:105:PHB:CD2</td>
<td>6:E:105:PHB:CE1</td>
<td>2.50</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:1197:PRO:CB</td>
<td>4:B:1197:PRO:CD2</td>
<td>2.27</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:132:LEU:HG1</td>
<td>4:B:132:LEU:HD2</td>
<td>2.84</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:188:LEU:HG</td>
<td>4:B:188:LEU:HC2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:376:LYS:H</td>
<td>4:B:376:LYS:CD2</td>
<td>2.38</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:471:LYS:H</td>
<td>4:B:471:LYS:CD2</td>
<td>2.25</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:518:HIS:CD2</td>
<td>4:B:518:HIS:CE2</td>
<td>2.40</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:755:ILE:CD2</td>
<td>4:B:755:ILE:CE2</td>
<td>2.69</td>
<td>0.40</td>
</tr>
<tr>
<td>4:B:1091:TYR:CE1</td>
<td>4:B:1091:TYR:CD2</td>
<td>2.55</td>
<td>0.40</td>
</tr>
<tr>
<td>5:C:248:ILE:H</td>
<td>5:C:248:ILE:HG1</td>
<td>1.51</td>
<td>0.40</td>
</tr>
<tr>
<td>6:E:100:ILE:HG1</td>
<td>6:E:100:ILE:HG2</td>
<td>2.55</td>
<td>0.40</td>
</tr>
<tr>
<td>8:H:136:LYS:CD</td>
<td>8:H:136:LYS:HC2</td>
<td>2.52</td>
<td>0.40</td>
</tr>
<tr>
<td>10:J:16:ASP:OD1</td>
<td>10:J:16:ASP:OE1</td>
<td>2.60</td>
<td>0.40</td>
</tr>
</tbody>
</table>

Continued on next page...
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>3</td>
<td>A</td>
<td>1383/1733 (80%)</td>
<td>851 (62%)</td>
<td>315 (23%)</td>
<td>217 (16%)</td>
<td>0 4</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1088/1224 (89%)</td>
<td>730 (67%)</td>
<td>214 (20%)</td>
<td>144 (13%)</td>
<td>0 5</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>264/318 (83%)</td>
<td>187 (71%)</td>
<td>49 (19%)</td>
<td>28 (11%)</td>
<td>0 8</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>212/215 (99%)</td>
<td>142 (67%)</td>
<td>41 (19%)</td>
<td>29 (14%)</td>
<td>0 5</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>82/155 (53%)</td>
<td>49 (60%)</td>
<td>26 (32%)</td>
<td>7 (8%)</td>
<td>1 12</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>129/146 (88%)</td>
<td>87 (67%)</td>
<td>16 (12%)</td>
<td>26 (20%)</td>
<td>0 2</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>117/122 (96%)</td>
<td>74 (63%)</td>
<td>24 (20%)</td>
<td>19 (16%)</td>
<td>0 3</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>63/70 (90%)</td>
<td>42 (67%)</td>
<td>11 (18%)</td>
<td>10 (16%)</td>
<td>0 3</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>112/120 (93%)</td>
<td>81 (72%)</td>
<td>20 (18%)</td>
<td>11 (10%)</td>
<td>1 10</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>44/70 (63%)</td>
<td>20 (46%)</td>
<td>10 (23%)</td>
<td>14 (32%)</td>
<td>0 0</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>3494/4173 (84%)</td>
<td>2263 (65%)</td>
<td>726 (21%)</td>
<td>505 (14%)</td>
<td>0 4</td>
</tr>
</tbody>
</table>

All (505) 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>3</td>
<td>A</td>
<td>44</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>50</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>55</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>56</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>57</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>3</td>
<td>A</td>
<td>59</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>62</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>63</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>69</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>72</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>74</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>76</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>89</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>93</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>99</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>124</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>130</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>131</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>138</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>149</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>167</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>169</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>185</td>
<td>TRP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>209</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>214</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>219</td>
<td>PHE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>223</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>244</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>248</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>250</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>253</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>254</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>283</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>285</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>286</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>290</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>312</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>313</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>314</td>
<td>ALA</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>317</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>318</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>320</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>321</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>322</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>323</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>331</td>
<td>GLY</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>3</td>
<td>A</td>
<td>335</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>336</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>385</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>399</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>404</td>
<td>TYR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>415</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>476</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>567</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>568</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>593</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>597</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>610</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>668</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>888</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>889</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>895</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>903</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>904</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>909</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>922</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>972</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>986</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>998</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1036</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1053</td>
<td>PHE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1054</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1080</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1110</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1139</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1140</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1169</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1200</td>
<td>ALA</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1201</td>
<td>ALA</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1223</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1255</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1257</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1274</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1280</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1314</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1327</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1389</td>
<td>PHE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1392</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>3</td>
<td>A</td>
<td>1394</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1401</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1425</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>21</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>23</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>29</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>38</td>
<td>PHE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>55</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>65</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>108</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>168</td>
<td>GLY</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>229</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>231</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>248</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>249</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>274</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>275</td>
<td>TYR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>294</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>327</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>332</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>333</td>
<td>PHE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>346</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>351</td>
<td>TYR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>367</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>419</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>432</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>450</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>466</td>
<td>TRP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>468</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>469</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>470</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>473</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>476</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>531</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>635</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>636</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>637</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>642</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>643</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>645</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>646</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>653</td>
<td>VAL</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>4</td>
<td>B</td>
<td>708</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>709</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>723</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>734</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>738</td>
<td>PHE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>869</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>878</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>958</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>982</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1046</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1061</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1097</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1103</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1167</td>
<td>GLY</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1176</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1178</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1181</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1183</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1214</td>
<td>PRO</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>107</td>
<td>SER</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>142</td>
<td>VAL</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>174</td>
<td>ALA</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>213</td>
<td>PRO</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>215</td>
<td>GLU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>240</td>
<td>VAL</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>3</td>
<td>GLN</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>36</td>
<td>GLU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>37</td>
<td>LEU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>38</td>
<td>PRO</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>59</td>
<td>SER</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>77</td>
<td>SER</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>90</td>
<td>VAL</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>97</td>
<td>VAL</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>103</td>
<td>LYS</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>111</td>
<td>VAL</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>115</td>
<td>ASN</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>162</td>
<td>ARG</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>174</td>
<td>GLN</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>73</td>
<td>ALA</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>74</td>
<td>ILE</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>112</td>
<td>GLU</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>128</td>
<td>LYS</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>H</td>
<td>3</td>
<td>ASN</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>32</td>
<td>THR</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>34</td>
<td>ASP</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>43</td>
<td>ASN</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>77</td>
<td>ARG</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>80</td>
<td>ARG</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>81</td>
<td>PRO</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>86</td>
<td>ASP</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>91</td>
<td>ASP</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>109</td>
<td>LYS</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>135</td>
<td>LEU</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>140</td>
<td>ALA</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>15</td>
<td>TYR</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>16</td>
<td>PRO</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>21</td>
<td>GLU</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>33</td>
<td>SER</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>34</td>
<td>TYR</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>79</td>
<td>HIS</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>116</td>
<td>ASN</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>2</td>
<td>ILE</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>6</td>
<td>ARG</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>55</td>
<td>ASP</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>64</td>
<td>ASN</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>7</td>
<td>PHE</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>27</td>
<td>ALA</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>28</td>
<td>PRO</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>26</td>
<td>THR</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>35</td>
<td>SER</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>43</td>
<td>THR</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>45</td>
<td>ALA</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>47</td>
<td>ARG</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>54</td>
<td>ARG</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>55</td>
<td>ILE</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>59</td>
<td>ALA</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>64</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>54</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>61</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>68</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>117</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>129</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>139</td>
<td>TRP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>178</td>
<td>GLY</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>3</td>
<td>A</td>
<td>210</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>212</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>255</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>257</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>315</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>409</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>428</td>
<td>TYR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>473</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>538</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>609</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>672</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>776</td>
<td>ALA</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>819</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>846</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>852</td>
<td>TYR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>854</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>916</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>958</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>979</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>980</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>985</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1002</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1028</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1135</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1221</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1231</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1386</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1388</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1424</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1437</td>
<td>GLY</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>27</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>37</td>
<td>PHE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>94</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>124</td>
<td>TYR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>132</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>200</td>
<td>GLY</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>266</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>318</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>350</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>365</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>452</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>472</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>4</td>
<td>B</td>
<td>485</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>641</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>695</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>712</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>731</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>751</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>761</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>774</td>
<td>GLY</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>792</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>793</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>872</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>891</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>942</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>959</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1017</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1021</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1185</td>
<td>CYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1202</td>
<td>LEU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>5</td>
<td>GLY</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>28</td>
<td>ALA</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>46</td>
<td>ILE</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>110</td>
<td>THR</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>245</td>
<td>VAL</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>31</td>
<td>THR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>40</td>
<td>GLU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>45</td>
<td>LYS</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>148</td>
<td>GLU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>168</td>
<td>TYR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>183</td>
<td>PRO</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>8</td>
<td>ASP</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>20</td>
<td>TYR</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>52</td>
<td>GLN</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>82</td>
<td>PRO</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>90</td>
<td>ALA</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>139</td>
<td>ASN</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>3</td>
<td>THR</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>10</td>
<td>CYS</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>11</td>
<td>ASN</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>23</td>
<td>ASN</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>60</td>
<td>GLN</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>8</td>
<td>PHE</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>32</td>
<td>GLU</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>11</td>
<td>K</td>
<td>5</td>
<td>ASP</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>13</td>
<td>GLY</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>78</td>
<td>THR</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>90</td>
<td>ALA</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>53</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>5</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>48</td>
<td>ALA</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>66</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>109</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>220</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>251</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>259</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>268</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>306</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>333</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>517</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>529</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>556</td>
<td>TRP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>600</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>604</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>737</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>838</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>902</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>905</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>923</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>942</td>
<td>PHE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1037</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1046</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1098</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1115</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1133</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1353</td>
<td>TYR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1403</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>45</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>180</td>
<td>TYR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>230</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>264</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>265</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>398</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>410</td>
<td>GLY</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>411</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>451</td>
<td>LYS</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>B</td>
<td>471</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>477</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>707</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>713</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>725</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>754</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>937</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1144</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1220</td>
<td>ARG</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>4</td>
<td>GLU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>6</td>
<td>PRO</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>48</td>
<td>SER</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>184</td>
<td>ASN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>206</td>
<td>ASN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>212</td>
<td>PRO</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>203</td>
<td>GLU</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>81</td>
<td>THR</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>141</td>
<td>GLY</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>19</td>
<td>ARG</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>47</td>
<td>GLU</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>54</td>
<td>GLU</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>86</td>
<td>PHE</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>51</td>
<td>LEU</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>53</td>
<td>HIS</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>8</td>
<td>GLU</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>83</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>108</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>140</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>184</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>245</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>400</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>543</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>583</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>963</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1051</td>
<td>ALA</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1077</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1168</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1174</td>
<td>PHE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1204</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1206</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1242</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1261</td>
<td>LYS</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>3</td>
<td>A</td>
<td>1287</td>
<td>TYR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1367</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1383</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1398</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>46</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>58</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>179</td>
<td>CYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>298</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>394</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>464</td>
<td>GLY</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>598</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>711</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>828</td>
<td>ALA</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>865</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>879</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1066</td>
<td>SER</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>165</td>
<td>LYS</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>202</td>
<td>PRO</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>214</td>
<td>ASN</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>16</td>
<td>PHE</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>124</td>
<td>VAL</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>137</td>
<td>GLU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>161</td>
<td>LYS</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>96</td>
<td>THR</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>33</td>
<td>GLN</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>44</td>
<td>VAL</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>48</td>
<td>PRO</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>78</td>
<td>SER</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>83</td>
<td>GLN</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>89</td>
<td>LEU</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>20</td>
<td>LYS</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>115</td>
<td>LYS</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>30</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>10</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>96</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>104</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>153</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>271</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>284</td>
<td>ALA</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>288</td>
<td>ALA</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>418</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>424</td>
<td>ILE</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>3</td>
<td>A</td>
<td>526</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>599</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>691</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1050</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1127</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1233</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1270</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1366</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1421</td>
<td>CYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>114</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>323</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>353</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>368</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>744</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>818</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>842</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>899</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1108</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1157</td>
<td>ALA</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>32</td>
<td>SER</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>64</td>
<td>ALA</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>195</td>
<td>GLN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>264</td>
<td>GLN</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>51</td>
<td>ALA</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>84</td>
<td>VAL</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>97</td>
<td>MET</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>4</td>
<td>PRO</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>88</td>
<td>LYS</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>56</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>51</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>316</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>625</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>706</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>926</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1049</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1136</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>28</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>324</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>418</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>724</td>
<td>ASP</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>136</td>
<td>ASP</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>185</td>
<td>LYS</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>6</td>
<td>E</td>
<td>8</td>
<td>ASN</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>172</td>
<td>GLU</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>48</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>477</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>756</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1148</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>974</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>992</td>
<td>ILE</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>172</td>
<td>PRO</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>118</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>27</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>325</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>382</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>530</td>
<td>GLY</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>825</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>837</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>201</td>
<td>GLY</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>284</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>285</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>555</td>
<td>ILE</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>15</td>
<td>GLY</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>46</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>162</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>289</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>171</td>
<td>PRO</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>243</td>
<td>VAL</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>14</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>531</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1045</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1335</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>247</td>
<td>GLY</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>292</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>870</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>877</td>
<td>PRO</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>127</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>639</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>467</td>
<td>GLY</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>76</td>
<td>GLY</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>3</td>
<td>A</td>
<td>1218/1520 (80%)</td>
<td>859 (70%)</td>
<td>359 (30%)</td>
<td>0 3</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>960/1061 (90%)</td>
<td>718 (75%)</td>
<td>242 (25%)</td>
<td>0 5</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>234/274 (85%)</td>
<td>175 (75%)</td>
<td>59 (25%)</td>
<td>0 5</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>196/197 (100% )</td>
<td>141 (72%)</td>
<td>55 (28%)</td>
<td>0 3</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>74/137 (54%)</td>
<td>57 (77%)</td>
<td>17 (23%)</td>
<td>1 6</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>117/128 (91%)</td>
<td>80 (68%)</td>
<td>37 (32%)</td>
<td>0 2</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>113/116 (97%)</td>
<td>84 (74%)</td>
<td>29 (26%)</td>
<td>0 5</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>60/65 (92%)</td>
<td>42 (70%)</td>
<td>18 (30%)</td>
<td>0 3</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>99/102 (97%)</td>
<td>81 (82%)</td>
<td>18 (18%)</td>
<td>2 12</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>40/57 (70%)</td>
<td>27 (68%)</td>
<td>13 (32%)</td>
<td>0 2</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>3111/3657 (85%)</td>
<td>2264 (73%)</td>
<td>847 (27%)</td>
<td>0 4</td>
</tr>
</tbody>
</table>

All (847) 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>3</td>
<td>A</td>
<td>6</td>
<td>TYR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>18</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>22</td>
<td>PHE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>25</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>28</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>31</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>32</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>38</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>41</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>47</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>49</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>50</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>53</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>56</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>60</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>62</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>3</td>
<td>A</td>
<td>64</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>65</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>67</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>68</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>69</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>71</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>72</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>74</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>80</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>83</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>84</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>93</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>96</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>100</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>102</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>105</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>107</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>113</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>114</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>115</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>116</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>121</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>123</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>132</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>140</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>142</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>143</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>147</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>150</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>151</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>162</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>167</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>169</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>170</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>180</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>184</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>185</td>
<td>TRP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>186</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>207</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>208</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>215</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>219</td>
<td>PHE</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>3</td>
<td>A</td>
<td>222</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>225</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>227</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>229</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>235</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>237</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>238</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>239</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>240</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>247</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>248</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>249</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>250</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>254</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>256</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>257</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>263</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>265</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>266</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>270</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>271</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>275</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>279</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>282</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>287</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>291</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>295</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>296</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>297</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>302</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>304</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>306</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>307</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>308</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>315</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>318</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>320</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>321</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>323</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>324</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>325</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>335</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>3</td>
<td>A</td>
<td>337</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>344</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>348</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>350</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>356</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>359</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>364</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>380</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>381</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>387</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>388</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>391</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>397</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>398</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>403</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>404</td>
<td>TYR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>406</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>407</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>412</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>419</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>423</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>424</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>433</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>434</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>437</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>438</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>441</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>443</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>445</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>449</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>450</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>452</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>453</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>455</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>456</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>462</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>466</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>475</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>476</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>481</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>489</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>493</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>3</td>
<td>A</td>
<td>495</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>496</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>500</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>501</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>512</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>513</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>514</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>521</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>524</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>525</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>531</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>533</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>552</td>
<td>TRP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>567</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>573</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>576</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>577</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>589</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>590</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>596</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>597</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>598</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>601</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>608</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>612</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>614</td>
<td>PHE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>618</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>621</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>625</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>629</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>630</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>648</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>652</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>653</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>658</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>660</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>666</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>674</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>680</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>682</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>685</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>687</td>
<td>LYS</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>3</td>
<td>A</td>
<td>691</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>695</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>702</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>710</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>711</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>713</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>720</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>722</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>732</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>735</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>737</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>738</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>740</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>752</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>754</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>756</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>764</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>765</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>768</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>771</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>774</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>788</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>795</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>803</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>805</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>816</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>821</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>826</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>829</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>830</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>831</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>839</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>853</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>854</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>855</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>857</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>858</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>879</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>882</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>884</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>886</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>889</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>3</td>
<td>A</td>
<td>890</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>893</td>
<td>PHE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>896</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>897</td>
<td>TYR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>898</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>902</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>904</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>905</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>907</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>911</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>913</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>918</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>923</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>924</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>925</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>927</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>929</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>932</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>934</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>940</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>941</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>964</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>968</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>969</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>973</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>978</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>980</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>988</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>990</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>993</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>995</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>996</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>997</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>998</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1001</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1004</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1006</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1009</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1017</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1019</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1022</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1024</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>3</td>
<td>A</td>
<td>1025</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1029</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1032</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1037</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1046</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1060</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1070</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1077</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1079</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1092</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1095</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1103</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1107</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1116</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1120</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1122</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1128</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1132</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1133</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1134</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1138</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1146</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1150</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1156</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1162</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1163</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1171</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1172</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1173</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1187</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1190</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1193</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1199</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1207</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1208</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1215</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1223</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1227</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1231</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1234</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1235</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1243</td>
<td>VAL</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>A</td>
<td>1262</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1264</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1265</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1267</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1272</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1273</td>
<td>LEU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1274</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1277</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1280</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1281</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1285</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1290</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1292</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1295</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1299</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1300</td>
<td>LYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1309</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1315</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1318</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1322</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1325</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1326</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1333</td>
<td>ILE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1336</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1349</td>
<td>TYR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1355</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1359</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1362</td>
<td>TYR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1364</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1376</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1384</td>
<td>VAL</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1385</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1387</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1389</td>
<td>PHE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1390</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1391</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1393</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1398</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1400</td>
<td>CYS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1405</td>
<td>THR</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1407</td>
<td>GLU</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1411</td>
<td>GLU</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>3</td>
<td>A</td>
<td>1420</td>
<td>ASP</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1422</td>
<td>ARG</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1425</td>
<td>SER</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1433</td>
<td>MET</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1435</td>
<td>PRO</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1441</td>
<td>PHE</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1445</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>20</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>24</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>28</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>34</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>49</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>61</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>63</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>65</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>66</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>68</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>94</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>97</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>98</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>104</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>109</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>119</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>120</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>128</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>130</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>131</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>134</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>166</td>
<td>PHE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>174</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>175</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>177</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>185</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>188</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>194</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>206</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>217</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>218</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>222</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>223</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>225</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>231</td>
<td>PRO</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>4</td>
<td>B</td>
<td>234</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>246</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>249</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>251</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>252</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>253</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>257</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>261</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>268</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>274</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>275</td>
<td>TYR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>276</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>283</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>298</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>304</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>305</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>315</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>316</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>319</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>322</td>
<td>PHE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>329</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>331</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>333</td>
<td>PHE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>346</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>347</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>359</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>362</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>365</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>367</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>372</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>373</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>385</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>387</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>393</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>401</td>
<td>PHE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>404</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>408</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>411</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>416</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>419</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>423</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>424</td>
<td>LEU</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>B</td>
<td>425</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>426</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>429</td>
<td>PHE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>431</td>
<td>TYR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>433</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>436</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>451</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>458</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>461</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>469</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>471</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>474</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>482</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>485</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>499</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>511</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>513</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>519</td>
<td>TRP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>521</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>531</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>537</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>539</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>540</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>547</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>552</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>554</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>556</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>563</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>570</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>572</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>573</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>574</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>592</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>598</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>613</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>617</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>623</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>624</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>635</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>638</td>
<td>PHE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>640</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>641</td>
<td>GLU</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>4</td>
<td>B</td>
<td>642</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>644</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>646</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>648</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>658</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>667</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>679</td>
<td>TYR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>682</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>686</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>701</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>709</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>710</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>714</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>723</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>724</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>728</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>730</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>732</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>740</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>741</td>
<td>CYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>748</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>751</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>760</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>762</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>764</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>766</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>778</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>789</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>790</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>791</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>794</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>795</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>807</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>810</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>812</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>815</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>817</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>822</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>837</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>838</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>856</td>
<td>PHE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>858</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>4</td>
<td>B</td>
<td>861</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>865</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>866</td>
<td>TYR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>871</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>878</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>879</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>882</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>883</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>886</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>889</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>893</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>895</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>896</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>901</td>
<td>PRO</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>914</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>916</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>933</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>938</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>941</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>944</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>953</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>956</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>957</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>958</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>962</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>968</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>976</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>983</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>984</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>986</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>989</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>993</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>995</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>996</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>999</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1007</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1019</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1020</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1021</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1034</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1048</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1049</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>4</td>
<td>B</td>
<td>1064</td>
<td>TYR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1065</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1073</td>
<td>TYR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1074</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1077</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1082</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1096</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1103</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1108</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1113</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1116</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1119</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1120</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1123</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1124</td>
<td>ARG</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1138</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1141</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1145</td>
<td>SER</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1147</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1152</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1162</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1171</td>
<td>VAL</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1172</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1181</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1183</td>
<td>LYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1185</td>
<td>CYS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1189</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1190</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1191</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1194</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1195</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1196</td>
<td>ILE</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1202</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1203</td>
<td>LEU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1206</td>
<td>GLU</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1210</td>
<td>MET</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1218</td>
<td>THR</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1219</td>
<td>ASP</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1222</td>
<td>ARG</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>11</td>
<td>ARG</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>23</td>
<td>SER</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>25</td>
<td>VAL</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>C</td>
<td>26</td>
<td>ASP</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>27</td>
<td>LEU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>33</td>
<td>LEU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>34</td>
<td>ARG</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>41</td>
<td>ILE</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>46</td>
<td>ILE</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>50</td>
<td>GLU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>53</td>
<td>THR</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>55</td>
<td>THR</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>56</td>
<td>THR</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>58</td>
<td>LEU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>62</td>
<td>PHE</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>67</td>
<td>LEU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>69</td>
<td>LEU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>70</td>
<td>ILE</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>77</td>
<td>ILE</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>89</td>
<td>GLU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>91</td>
<td>HIS</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>99</td>
<td>LEU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>110</td>
<td>THR</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>111</td>
<td>THR</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>117</td>
<td>ASP</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>119</td>
<td>VAL</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>122</td>
<td>SER</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>135</td>
<td>GLN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>137</td>
<td>LYS</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>138</td>
<td>GLU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>140</td>
<td>ASN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>143</td>
<td>LEU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>145</td>
<td>CYS</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>151</td>
<td>GLN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>153</td>
<td>LEU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>154</td>
<td>LYS</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>163</td>
<td>ILE</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>166</td>
<td>GLU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>172</td>
<td>PRO</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>178</td>
<td>PHE</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>189</td>
<td>THR</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>193</td>
<td>TYR</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>197</td>
<td>SER</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>199</td>
<td>LYS</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>209</td>
<td>TYR</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>5</td>
<td>C</td>
<td>215</td>
<td>GLU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>229</td>
<td>TYR</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>231</td>
<td>ASN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>233</td>
<td>GLU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>234</td>
<td>SER</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>240</td>
<td>VAL</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>249</td>
<td>ASP</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>250</td>
<td>THR</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>258</td>
<td>ILE</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>260</td>
<td>LEU</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>264</td>
<td>GLN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>265</td>
<td>MET</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>267</td>
<td>GLN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>268</td>
<td>ASP</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>3</td>
<td>GLN</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>4</td>
<td>GLU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>6</td>
<td>GLU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>9</td>
<td>ILE</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>31</td>
<td>THR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>35</td>
<td>VAL</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>37</td>
<td>LEU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>38</td>
<td>PRO</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>40</td>
<td>GLU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>58</td>
<td>MET</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>60</td>
<td>PHE</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>61</td>
<td>GLN</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>68</td>
<td>SER</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>73</td>
<td>PRO</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>77</td>
<td>SER</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>78</td>
<td>LEU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>87</td>
<td>SER</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>92</td>
<td>THR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>94</td>
<td>LYS</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>100</td>
<td>ILE</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>101</td>
<td>GLN</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>105</td>
<td>PHE</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>107</td>
<td>THR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>109</td>
<td>ILE</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>110</td>
<td>PHE</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>117</td>
<td>THR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>121</td>
<td>MET</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>122</td>
<td>LYS</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>6</td>
<td>E</td>
<td>123</td>
<td>LEU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>124</td>
<td>VAL</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>127</td>
<td>ILE</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>129</td>
<td>PRO</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>131</td>
<td>THR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>134</td>
<td>THR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>144</td>
<td>ILE</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>145</td>
<td>THR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>146</td>
<td>HIS</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>153</td>
<td>HIS</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>155</td>
<td>ARG</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>156</td>
<td>LEU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>158</td>
<td>SER</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>165</td>
<td>LEU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>168</td>
<td>TYR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>169</td>
<td>ARG</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>172</td>
<td>GLU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>175</td>
<td>LEU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>180</td>
<td>ARG</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>187</td>
<td>TYR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>188</td>
<td>LEU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>190</td>
<td>LEU</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>196</td>
<td>VAL</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>204</td>
<td>THR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>211</td>
<td>TYR</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>212</td>
<td>ARG</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>215</td>
<td>MET</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>79</td>
<td>ARG</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>82</td>
<td>THR</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>87</td>
<td>LYS</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>90</td>
<td>ARG</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>92</td>
<td>ARG</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>99</td>
<td>LEU</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>104</td>
<td>ASN</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>110</td>
<td>ASP</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>111</td>
<td>LEU</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>115</td>
<td>THR</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>119</td>
<td>ARG</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>120</td>
<td>ILE</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>125</td>
<td>LEU</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>133</td>
<td>VAL</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>148</td>
<td>VAL</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>F</td>
<td>151</td>
<td>LEU</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>155</td>
<td>LEU</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>2</td>
<td>SER</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>8</td>
<td>ASP</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>14</td>
<td>GLU</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>15</td>
<td>VAL</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>21</td>
<td>ASN</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>25</td>
<td>ARG</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>27</td>
<td>GLU</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>30</td>
<td>SER</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>31</td>
<td>THR</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>33</td>
<td>GLN</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>36</td>
<td>CYS</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>37</td>
<td>LYS</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>38</td>
<td>LEU</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>39</td>
<td>THR</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>48</td>
<td>PRO</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>49</td>
<td>VAL</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>61</td>
<td>SER</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>63</td>
<td>LEU</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>76</td>
<td>THR</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>77</td>
<td>ARG</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>82</td>
<td>PRO</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>88</td>
<td>SER</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>89</td>
<td>LEU</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>91</td>
<td>ASP</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>97</td>
<td>MET</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>102</td>
<td>TYR</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>103</td>
<td>LYS</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>105</td>
<td>GLU</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>110</td>
<td>ASP</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>112</td>
<td>ILE</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>124</td>
<td>ARG</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>129</td>
<td>TYR</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>130</td>
<td>ARG</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>136</td>
<td>LYS</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>138</td>
<td>GLU</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>142</td>
<td>LEU</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>143</td>
<td>LEU</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>10</td>
<td>CYS</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>12</td>
<td>ASN</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>13</td>
<td>MET</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>9</td>
<td>I</td>
<td>14</td>
<td>LEU</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>15</td>
<td>TYR</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>16</td>
<td>PRO</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>19</td>
<td>ASP</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>22</td>
<td>ASN</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>24</td>
<td>ARG</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>26</td>
<td>LEU</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>28</td>
<td>GLU</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>29</td>
<td>CYS</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>30</td>
<td>ARG</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>31</td>
<td>THR</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>34</td>
<td>TYR</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>42</td>
<td>LEU</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>45</td>
<td>ARG</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>46</td>
<td>HIS</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>55</td>
<td>THR</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>83</td>
<td>ASN</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>84</td>
<td>VAL</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>91</td>
<td>ARG</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>101</td>
<td>PHE</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>104</td>
<td>LEU</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>107</td>
<td>SER</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>117</td>
<td>LYS</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>118</td>
<td>ARG</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>119</td>
<td>THR</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>120</td>
<td>GLN</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>1</td>
<td>MET</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>7</td>
<td>CYS</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>13</td>
<td>VAL</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>14</td>
<td>VAL</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>16</td>
<td>ASP</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>19</td>
<td>GLU</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>27</td>
<td>GLU</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>28</td>
<td>ASP</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>31</td>
<td>ASP</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>32</td>
<td>GLU</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>36</td>
<td>LEU</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>43</td>
<td>ARG</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>48</td>
<td>ARG</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>51</td>
<td>LEU</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>54</td>
<td>VAL</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>55</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>10</td>
<td>J</td>
<td>60</td>
<td>PHE</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>62</td>
<td>ARG</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>1</td>
<td>MET</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>9</td>
<td>LEU</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>17</td>
<td>SER</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>34</td>
<td>THR</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>42</td>
<td>LEU</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>47</td>
<td>ARG</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>50</td>
<td>LEU</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>53</td>
<td>ASP</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>56</td>
<td>VAL</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>61</td>
<td>TYR</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>71</td>
<td>PHE</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>76</td>
<td>GLN</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>81</td>
<td>TYR</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>101</td>
<td>LEU</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>108</td>
<td>GLU</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>111</td>
<td>LEU</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>113</td>
<td>THR</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>114</td>
<td>LEU</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>27</td>
<td>LEU</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>28</td>
<td>LYS</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>31</td>
<td>CYS</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>38</td>
<td>LEU</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>40</td>
<td>LEU</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>41</td>
<td>SER</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>42</td>
<td>ARG</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>50</td>
<td>ASP</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>51</td>
<td>CYS</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>55</td>
<td>ILE</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>63</td>
<td>ARG</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>65</td>
<td>VAL</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>68</td>
<td>GLU</td>
</tr>
</tbody>
</table>

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (101) 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>3</td>
<td>A</td>
<td>4</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>18</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>68</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>71</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>83</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>3</td>
<td>A</td>
<td>92</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>169</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>171</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>297</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>306</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>313</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>339</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>358</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>435</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>445</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>471</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>493</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>587</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>631</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>650</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>659</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>660</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>741</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>742</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>745</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>757</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>786</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>858</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>903</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>906</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>926</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>935</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>965</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>968</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>994</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1009</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1078</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1110</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1171</td>
<td>GLN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1173</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1278</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1364</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1367</td>
<td>HIS</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1390</td>
<td>ASN</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1432</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>46</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>115</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>4</td>
<td>B</td>
<td>121</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>206</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>300</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>325</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>366</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>383</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>400</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>415</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>465</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>515</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>516</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>518</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>572</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>657</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>686</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>734</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>740</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>744</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>786</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>794</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>822</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>842</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>957</td>
<td>ASN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>975</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1015</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1065</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1117</td>
<td>GLN</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1141</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1161</td>
<td>HIS</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1193</td>
<td>GLN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>65</td>
<td>HIS</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>73</td>
<td>GLN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>112</td>
<td>ASN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>123</td>
<td>ASN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>131</td>
<td>HIS</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>167</td>
<td>HIS</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>206</td>
<td>ASN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>242</td>
<td>GLN</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>264</td>
<td>GLN</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>5</td>
<td>ASN</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>99</td>
<td>HIS</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>104</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>6</td>
<td>E</td>
<td>114</td>
<td>ASN</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>147</td>
<td>HIS</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>33</td>
<td>GLN</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>137</td>
<td>GLN</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>12</td>
<td>ASN</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>83</td>
<td>ASN</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>89</td>
<td>GLN</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>116</td>
<td>ASN</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>40</td>
<td>HIS</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>65</td>
<td>HIS</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>96</td>
<td>ASN</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>53</td>
<td>HIS</td>
</tr>
</tbody>
</table>

5.3.3 RNA

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Backbone Outliers</th>
<th>Pucker Outliers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>R</td>
<td>9/10 (90%)</td>
<td>2 (22%)</td>
<td>0</td>
</tr>
</tbody>
</table>

All (2) RNA backbone 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>R</td>
<td>5</td>
<td>A</td>
</tr>
<tr>
<td>1</td>
<td>R</td>
<td>10</td>
<td>A</td>
</tr>
</tbody>
</table>

There are no RNA pucker outliers to report.

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

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

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 9 ligands modelled in this entry, 9 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.
There are no bond angle outliers.
There are no chirality outliers.
There are no torsion outliers.
There are no ring outliers.
No monomer is involved in short contacts.

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>R</td>
<td>10/10 (100%)</td>
<td>1.35</td>
<td>2 (20%)</td>
<td>1 0</td>
<td>30, 82, 200, 200</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>14/14 (100%)</td>
<td>1.04</td>
<td>4 (28%)</td>
<td>0 0</td>
<td>30, 107, 200, 200</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1395/1733 (80%)</td>
<td>-0.15</td>
<td>26 (1%)</td>
<td>66 52</td>
<td>30, 32, 134, 200</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1106/1224 (90%)</td>
<td>-0.23</td>
<td>11 (0%)</td>
<td>82 70</td>
<td>30, 30, 118, 198</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>266/318 (83%)</td>
<td>-0.35</td>
<td>0</td>
<td>100 100</td>
<td>30, 30, 84, 140</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>214/215 (99%)</td>
<td>0.28</td>
<td>15 (7%)</td>
<td>16 10</td>
<td>30, 67, 153, 200</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>84/155 (54%)</td>
<td>-0.08</td>
<td>0</td>
<td>100 100</td>
<td>30, 31, 93, 141</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>133/146 (91%)</td>
<td>-0.08</td>
<td>3 (2%)</td>
<td>60 45</td>
<td>30, 47, 138, 190</td>
</tr>
<tr>
<td>9</td>
<td>I</td>
<td>119/122 (97%)</td>
<td>-0.09</td>
<td>0</td>
<td>100 100</td>
<td>30, 32, 114, 163</td>
</tr>
<tr>
<td>10</td>
<td>J</td>
<td>65/70 (92%)</td>
<td>-0.41</td>
<td>0</td>
<td>100 100</td>
<td>30, 30, 96, 141</td>
</tr>
<tr>
<td>11</td>
<td>K</td>
<td>114/120 (95%)</td>
<td>-0.36</td>
<td>0</td>
<td>100 100</td>
<td>30, 30, 73, 107</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>46/70 (65%)</td>
<td>-0.24</td>
<td>1 (2%)</td>
<td>62 46</td>
<td>30, 45, 132, 158</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>3566/4197 (84%)</td>
<td>-0.16</td>
<td>62 (1%)</td>
<td>70 56</td>
<td>30, 31, 130, 200</td>
</tr>
</tbody>
</table>

All (62) 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>4</td>
<td>B</td>
<td>866</td>
<td>TYR</td>
<td>5.8</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>316</td>
<td>GLN</td>
<td>5.0</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>1</td>
<td>DA</td>
<td>4.8</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1175</td>
<td>SER</td>
<td>4.5</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>149</td>
<td>GLU</td>
<td>4.4</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>161</td>
<td>LEU</td>
<td>4.4</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>44</td>
<td>THR</td>
<td>4.3</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>83</td>
<td>CYS</td>
<td>4.3</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1176</td>
<td>LEU</td>
<td>4.0</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>715</td>
<td>ALA</td>
<td>3.9</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>183</td>
<td>GLY</td>
<td>3.8</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>RSRZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>A</td>
<td>253</td>
<td>ASN</td>
<td>3.5</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>199</td>
<td>LEU</td>
<td>3.3</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>256</td>
<td>GLN</td>
<td>3.2</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>2</td>
<td>DC</td>
<td>3.2</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>173</td>
<td>THR</td>
<td>3.2</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>86</td>
<td>ASP</td>
<td>3.2</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>85</td>
<td>GLY</td>
<td>3.1</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>869</td>
<td>SER</td>
<td>3.0</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>433</td>
<td>GLN</td>
<td>3.0</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1189</td>
<td>ILE</td>
<td>3.0</td>
</tr>
<tr>
<td>1</td>
<td>R</td>
<td>3</td>
<td>C</td>
<td>2.9</td>
</tr>
<tr>
<td>1</td>
<td>R</td>
<td>1</td>
<td>A</td>
<td>2.9</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>152</td>
<td>VAL</td>
<td>2.9</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>868</td>
<td>MET</td>
<td>2.8</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>100</td>
<td>ILE</td>
<td>2.8</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>186</td>
<td>LYS</td>
<td>2.8</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>311</td>
<td>GLN</td>
<td>2.8</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>87</td>
<td>SER</td>
<td>2.7</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>69</td>
<td>THR</td>
<td>2.7</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>200</td>
<td>ARG</td>
<td>2.6</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>56</td>
<td>PRO</td>
<td>2.6</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>48</td>
<td>ASP</td>
<td>2.5</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>121</td>
<td>LEU</td>
<td>2.5</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>3</td>
<td>DG</td>
<td>2.5</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>127</td>
<td>ILE</td>
<td>2.5</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>1255</td>
<td>GLU</td>
<td>2.5</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>647</td>
<td>GLY</td>
<td>2.5</td>
</tr>
<tr>
<td>2</td>
<td>T</td>
<td>14</td>
<td>DT</td>
<td>2.5</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>255</td>
<td>SER</td>
<td>2.4</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>125</td>
<td>PRO</td>
<td>2.4</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>153</td>
<td>PRO</td>
<td>2.4</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>122</td>
<td>LYS</td>
<td>2.4</td>
</tr>
<tr>
<td>8</td>
<td>H</td>
<td>83</td>
<td>GLN</td>
<td>2.4</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>84</td>
<td>ASP</td>
<td>2.4</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>110</td>
<td>PHE</td>
<td>2.3</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>66</td>
<td>LYS</td>
<td>2.3</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>865</td>
<td>LYS</td>
<td>2.3</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>882</td>
<td>THR</td>
<td>2.3</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>93</td>
<td>MET</td>
<td>2.2</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>171</td>
<td>GLN</td>
<td>2.2</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>250</td>
<td>ILE</td>
<td>2.2</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>121</td>
<td>MET</td>
<td>2.2</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>RSRZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>B</td>
<td>134</td>
<td>LYS</td>
<td>2.1</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>254</td>
<td>GLU</td>
<td>2.1</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>66</td>
<td>GLU</td>
<td>2.1</td>
</tr>
<tr>
<td>12</td>
<td>L</td>
<td>50</td>
<td>ASP</td>
<td>2.1</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>117</td>
<td>THR</td>
<td>2.1</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>429</td>
<td>PHE</td>
<td>2.1</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>164</td>
<td>ARG</td>
<td>2.0</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>49</td>
<td>SER</td>
<td>2.0</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>119</td>
<td>SER</td>
<td>2.0</td>
</tr>
</tbody>
</table>

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

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

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>RSCC</th>
<th>RSR</th>
<th>B-factors(Å²)</th>
<th>Q&lt;0.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>MG</td>
<td>A</td>
<td>2000</td>
<td>1/1</td>
<td>0.69</td>
<td>0.20</td>
<td>22,22,22,22</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>ZN</td>
<td>A</td>
<td>1734</td>
<td>1/1</td>
<td>0.84</td>
<td>0.29</td>
<td>22,22,22,22</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>ZN</td>
<td>A</td>
<td>1735</td>
<td>1/1</td>
<td>0.87</td>
<td>0.10</td>
<td>22,22,22,22</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>ZN</td>
<td>B</td>
<td>1307</td>
<td>1/1</td>
<td>0.91</td>
<td>0.11</td>
<td>22,22,22,22</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>ZN</td>
<td>I</td>
<td>203</td>
<td>1/1</td>
<td>0.92</td>
<td>0.21</td>
<td>22,22,22,22</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>ZN</td>
<td>J</td>
<td>101</td>
<td>1/1</td>
<td>0.93</td>
<td>0.11</td>
<td>22,22,22,22</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>ZN</td>
<td>I</td>
<td>204</td>
<td>1/1</td>
<td>0.96</td>
<td>0.17</td>
<td>22,22,22,22</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>ZN</td>
<td>C</td>
<td>319</td>
<td>1/1</td>
<td>0.98</td>
<td>0.06</td>
<td>22,22,22,22</td>
<td>0</td>
</tr>
<tr>
<td>13</td>
<td>ZN</td>
<td>L</td>
<td>105</td>
<td>1/1</td>
<td>0.98</td>
<td>0.06</td>
<td>22,22,22,22</td>
<td>0</td>
</tr>
</tbody>
</table>

6.5 Other polymers

There are no such residues in this entry.