Full wwPDB X-ray Structure Validation Report

Mar 9, 2018 – 08:39 am GMT

PDB ID : 1T36
Title : Crystal structure of E. coli carbamoyl phosphate synthetase small subunit mutant C248D complexed with uridine 5’-monophosphate
Authors : Thoden, J.B.; Huang, X.; Raushel, F.M.; Holden, H.M.
Deposited on : 2004-04-24
Resolution : 2.10 Å (reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
with specific help available everywhere you see the symbol.

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

- MolProbity : 4.02b-467
- Mogul : 1.7.3 (157068), CSD as539be (2018)
- Xtriage (Phenix) : 1.13
- EDS : trunk30967
- 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) : trunk30967
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.10 Å.

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

<table>
<thead>
<tr>
<th>Metric</th>
<th>Whole archive (#Entries)</th>
<th>Similar resolution (#Entries, resolution range(Å))</th>
</tr>
</thead>
<tbody>
<tr>
<td>$R_{\text{free}}$</td>
<td>111664</td>
<td>4608 (2.10-2.10)</td>
</tr>
<tr>
<td>Clashscore</td>
<td>122126</td>
<td>5109 (2.10-2.10)</td>
</tr>
<tr>
<td>Ramachandran outliers</td>
<td>120053</td>
<td>5059 (2.10-2.10)</td>
</tr>
<tr>
<td>Sidechain outliers</td>
<td>120020</td>
<td>5060 (2.10-2.10)</td>
</tr>
<tr>
<td>RSRZ outliers</td>
<td>108989</td>
<td>4497 (2.10-2.10)</td>
</tr>
</tbody>
</table>

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for $\geq 3$, 2, 1 and 0 types of geometric quality criteria. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $<5\%$

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Length</th>
<th>Quality of chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>1073</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1073</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1073</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1073</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>382</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>382</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Length</th>
<th>Quality of chain</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>F</td>
<td>382</td>
<td>6%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>53%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>37%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>...</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>382</td>
<td>9%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>41%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>46%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>11%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>...</td>
</tr>
</tbody>
</table>
2 Entry composition

There are 11 unique types of molecules in this entry. The entry contains 48757 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Carbamoyl-phosphate synthase large chain.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>1058</td>
<td>Total C N O S</td>
<td>0</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8212 5155 1436 1575 46</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1058</td>
<td>Total C N O S</td>
<td>0</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8197 5146 1426 1579 46</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1058</td>
<td>Total C N O S</td>
<td>0</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8182 5137 1425 1575 45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1058</td>
<td>Total C N O S</td>
<td>0</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>8206 5152 1432 1577 45</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Molecule 2 is a protein called Carbamoyl-phosphate synthase small chain.

<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>B</td>
<td>379</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2897 1826 508 554 9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>379</td>
<td>Total C N O S</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2904 1830 511 554 9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>379</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2897 1826 508 554 9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>379</td>
<td>Total C N O S</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2897 1826 508 554 9</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

There are 4 discrepancies between the modelled and reference sequences:

<table>
<thead>
<tr>
<th>Chain</th>
<th>Residue</th>
<th>Modelled</th>
<th>Actual</th>
<th>Comment</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>248</td>
<td>ASP</td>
<td>CYS</td>
<td>ENGINEERED</td>
<td>UNP P00907</td>
</tr>
<tr>
<td>D</td>
<td>248</td>
<td>ASP</td>
<td>CYS</td>
<td>ENGINEERED</td>
<td>UNP P00907</td>
</tr>
<tr>
<td>F</td>
<td>248</td>
<td>ASP</td>
<td>CYS</td>
<td>ENGINEERED</td>
<td>UNP P00907</td>
</tr>
<tr>
<td>H</td>
<td>248</td>
<td>ASP</td>
<td>CYS</td>
<td>ENGINEERED</td>
<td>UNP P00907</td>
</tr>
</tbody>
</table>

- Molecule 3 is MANGANESE (II) ION (three-letter code: MN) (formula: Mn).
<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>G</td>
<td>3</td>
<td>Total</td>
<td>Mn</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>3</td>
<td>Total</td>
<td>Mn</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>3</td>
<td>Total</td>
<td>Mn</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>E</td>
<td>3</td>
<td>Total</td>
<td>Mn</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 4 is POTASSIUM ION (three-letter code: K) (formula: K).

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>ZeroOcc</th>
<th>AltConf</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>G</td>
<td>5</td>
<td>Total</td>
<td>K</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>D</td>
<td>1</td>
<td>Total</td>
<td>K</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>E</td>
<td>5</td>
<td>Total</td>
<td>K</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>H</td>
<td>1</td>
<td>Total</td>
<td>K</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1</td>
<td>Total</td>
<td>K</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>C</td>
<td>4</td>
<td>Total</td>
<td>K</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>A</td>
<td>4</td>
<td>Total</td>
<td>K</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>F</td>
<td>1</td>
<td>Total</td>
<td>K</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 5 is PHOSPHATE ION (three-letter code: PO4) (formula: O₄P).
Molecule 6 is CHLORIDE ION (three-letter code: CL) (formula: Cl).
- Molecule 7 is ADENOSINE-5'-DIPHOSPHATE (three-letter code: ADP) (formula: C_{10}H_{15}N_{5}O_{10}P_{2}).

![ADP](https://example.com/ADP.png)

<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>7</td>
<td>A</td>
<td>1</td>
<td>Total C N O P</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>27 10 5 10 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>1</td>
<td>Total C N O P</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>27 10 5 10 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>C</td>
<td>1</td>
<td>Total C N O P</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>27 10 5 10 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>C</td>
<td>1</td>
<td>Total C N O P</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>27 10 5 10 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1</td>
<td>Total C N O P</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>27 10 5 10 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1</td>
<td>Total C N O P</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>27 10 5 10 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1</td>
<td>Total C N O P</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>27 10 5 10 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1</td>
<td>Total C N O P</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>27 10 5 10 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Molecule 8 is L-ornithine (three-letter code: ORN) (formula: C_{5}H_{12}N_{2}O_{2}).
<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>8</td>
<td>A</td>
<td>1</td>
<td>Total C N O</td>
<td>9 5 2 2</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>C</td>
<td>1</td>
<td>Total C N O</td>
<td>9 5 2 2</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>E</td>
<td>1</td>
<td>Total C N O</td>
<td>9 5 2 2</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>G</td>
<td>1</td>
<td>Total C N O</td>
<td>9 5 2 2</td>
<td>0</td>
</tr>
</tbody>
</table>

- Molecule 9 is TETRAETHYLAMMONIUM ION (three-letter code: NET) (formula: C₈H₂₀N).
• Molecule 10 is URIDINE-5'-MONOPHOSPHATE (three-letter code: U) (formula: C$_9$H$_{13}$N$_2$O$_9$P).

![URIDINE-5'-MONOPHOSPHATE](image_url)

• Molecule 11 is water.

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

<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>11</td>
<td>B</td>
<td>161</td>
<td>Total 161 O 161</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11</td>
<td>C</td>
<td>819</td>
<td>Total 819 O 819</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11</td>
<td>D</td>
<td>221</td>
<td>Total 221 O 221</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11</td>
<td>E</td>
<td>832</td>
<td>Total 832 O 832</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11</td>
<td>F</td>
<td>200</td>
<td>Total 200 O 200</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11</td>
<td>G</td>
<td>705</td>
<td>Total 705 O 705</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>11</td>
<td>H</td>
<td>118</td>
<td>Total 118 O 118</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry 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: Carbamoyl-phosphate synthase large chain

Chain A:

• Molecule 1: Carbamoyl-phosphate synthase large chain
Molecule 1: Carbamoyl-phosphate synthase large chain
Molecule 1: Carbamoyl-phosphate synthase large chain

Chain G:
• Molecule 2: Carbamoyl-phosphate synthase small chain

Chain B:

• Molecule 2: Carbamoyl-phosphate synthase small chain

Chain D:
- Molecule 2: Carbamoyl-phosphate synthase small chain

Chain F:

- Molecule 2: Carbamoyl-phosphate synthase small chain

Chain H:
4 Data and refinement statistics

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Space group</td>
<td>P 21 21 21</td>
<td>Depositor</td>
</tr>
<tr>
<td>Cell constants</td>
<td>152.50Å 164.90Å 333.10Å</td>
<td>Depositor</td>
</tr>
<tr>
<td>a, b, c, α, β, γ</td>
<td>90.00° 90.00° 90.00°</td>
<td>Depositor</td>
</tr>
<tr>
<td>Resolution (Å)</td>
<td>30.00 – 2.10</td>
<td>Depositor</td>
</tr>
<tr>
<td></td>
<td>29.70 – 2.10</td>
<td>EDS</td>
</tr>
<tr>
<td>% Data completeness</td>
<td>90.0 (30.00-2.10)</td>
<td>Depositor</td>
</tr>
<tr>
<td>(in resolution range)</td>
<td>88.6 (29.70-2.10)</td>
<td>EDS</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>0.05</td>
<td>Depositor</td>
</tr>
<tr>
<td>&lt;I/σ(I)&gt;&lt;sup&gt;1&lt;/sup&gt;</td>
<td>0.88 (at 2.10Å)</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Refinement program</td>
<td>TNT</td>
<td>Depositor</td>
</tr>
<tr>
<td>R, R&lt;sub&gt;free&lt;/sub&gt;</td>
<td>0.176 , 0.209</td>
<td>Depositor</td>
</tr>
<tr>
<td></td>
<td>0.175 , 0.176</td>
<td>DCC</td>
</tr>
<tr>
<td>R&lt;sub&gt;free&lt;/sub&gt; test set</td>
<td>42730 reflections (9.94%)</td>
<td>wwPDB-VP</td>
</tr>
<tr>
<td>Wilson B-factor (Å²)</td>
<td>28.2</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Anisotropy</td>
<td>0.072</td>
<td>Xtriage</td>
</tr>
<tr>
<td>Bulk solvent k&lt;sub&gt;sol&lt;/sub&gt;(e/Å³), B&lt;sub&gt;sol&lt;/sub&gt;(Å²)</td>
<td>0.29 , 120.0</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;o&lt;/sub&gt;,F&lt;sub&gt;c&lt;/sub&gt; correlation</td>
<td>0.96</td>
<td>EDS</td>
</tr>
<tr>
<td>Total number of atoms</td>
<td>48757</td>
<td>wwPDB-VP</td>
</tr>
<tr>
<td>Average B, all atoms (Å²)</td>
<td>44.0</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 2.52% 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| >, < L² > 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: ADP, CL, K, MN, ORN, NET, PO4

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Bond lengths</th>
<th>Bond angles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>RMSZ</td>
<td>#</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1.05</td>
<td>68/8374 (0.8%)</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1.06</td>
<td>81/8355 (1.0%)</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1.06</td>
<td>74/8328 (0.9%)</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1.05</td>
<td>74/8368 (0.9%)</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>0.94</td>
<td>19/2959 (0.6%)</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>0.97</td>
<td>17/2970 (0.6%)</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>0.97</td>
<td>19/2959 (0.6%)</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>0.94</td>
<td>20/2959 (0.7%)</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>1.03</td>
<td>372/45272 (0.8%)</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>B</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

All (372) bond length outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>F</td>
<td>372</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>8.39</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>166</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>8.34</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>145</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>8.28</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1009[A]</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>8.21</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1009[B]</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>8.21</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>349</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>8.21</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>355</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>8.16</td>
<td>1.34</td>
<td>1.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>B</td>
<td>183</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.96</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>190</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.95</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>109</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.87</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>655</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.82</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>145</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.81</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1024</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.80</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>804</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.73</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1024</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.72</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>226</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.71</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1009</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.63</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>699</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.62</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>166</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.60</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>372</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.59</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>910</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.59</td>
<td>1.34</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>166</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.55</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>166</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.54</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>145</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.54</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>955</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.53</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>217</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.49</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>153</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.44</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>183</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.41</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>983</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.40</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>226</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.38</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>707</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.36</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>591</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.32</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>478</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.29</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>419</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.28</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1024</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.28</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>983</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.27</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>771</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.26</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>217</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.20</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1009</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.17</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>707</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.14</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>910</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.13</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>365</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.13</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>676</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.12</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>183</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.12</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>109</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.10</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>703</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.09</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>183</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.08</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>39</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.08</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>127</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.08</td>
<td>1.33</td>
<td>1.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>59</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.08</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>703</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.07</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>676</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.06</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>427</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.04</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>372</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>7.02</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>780</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.98</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>951</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.97</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>301</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.97</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>804</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.97</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>876</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.96</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>731</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.96</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>699</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.96</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>703</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.95</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>186</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.93</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>473</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.89</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>187</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.87</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>591</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.87</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>550</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.86</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>318</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.86</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>955</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.86</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>577</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.84</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>550</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.83</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>512</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.83</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>260</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.82</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>226</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.81</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>372</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.79</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>726</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.79</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>771</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.78</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>683</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.77</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>510</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.77</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>161</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.76</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>726</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.76</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>260</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.75</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>699</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.74</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>70</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.74</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>512[A]</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.73</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>512[B]</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.73</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>110</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.73</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>604</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.71</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>375</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.70</td>
<td>1.33</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>676</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.67</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>145</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.67</td>
<td>1.32</td>
<td>1.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>H</td>
<td>355</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.65</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>467</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.64</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>780</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.64</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>215</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.64</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>96</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.63</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>226</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.63</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>836</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.63</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>699</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.63</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>683</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.63</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>783</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.63</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>783</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.63</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>951</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.61</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>683</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.61</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>109</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>-6.60</td>
<td>1.18</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>910</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.60</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>771</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.60</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>349</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.59</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1009</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.59</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>761</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.59</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>512</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.58</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>783</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.57</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>161</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.55</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>876</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.54</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>72</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.54</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>731</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.53</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>478</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.53</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>383</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.52</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>683</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.51</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>926</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.51</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>970</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.51</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>577</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.49</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>474</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.48</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>655</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.47</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>365</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.47</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>707</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.47</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>186</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.46</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>301</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.45</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>926</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.45</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>186</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.44</td>
<td>1.32</td>
<td>1.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>955</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.44</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>478</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.42</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>951</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.42</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>383</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.41</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>103</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.41</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>983</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.39</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>771</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.39</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>955</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.39</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>190</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.37</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>153</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.36</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>72</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.36</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>110</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.36</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>467</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.35</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>219</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.35</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>804</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.35</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>334</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.34</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>419</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.33</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>577</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.33</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>110</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.31</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>274</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.31</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>189</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.27</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>334</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.27</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>549</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.26</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>731</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.26</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>591</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.25</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>375</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.25</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>633</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.24</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>260</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.23</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>189</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.23</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>153[A]</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.21</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>153[B]</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.21</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>186</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.21</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>624</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.21</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>676</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.20</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>299</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.19</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>970</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.19</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>72</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.18</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>726</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.18</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>876</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.15</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>633</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.14</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>707</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.14</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>467</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.13</td>
<td>1.32</td>
<td>1.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>187</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.13</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>419</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.12</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>110</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.12</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>161</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.12</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>29</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.12</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>841</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.11</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>215</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.11</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>375</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.10</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>988</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.08</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>96</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.07</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>474</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.07</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>510</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.07</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>703</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.07</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>187</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.06</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>892</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.05</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>318</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.03</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>208</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.03</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>655</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.02</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>208</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.02</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>624</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.01</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>124</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.01</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>70</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.00</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>301</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>6.00</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>478</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.98</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>274</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.98</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>549</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.98</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>403</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.97</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>109</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.96</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>103</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.95</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>892</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.95</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>549</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.95</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>836</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.95</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>318</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.94</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>468</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.94</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>560</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.93</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>876</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.93</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>577</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.92</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>510</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.92</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>673</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.92</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>655</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.91</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>474</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.90</td>
<td>1.32</td>
<td>1.25</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>B</td>
<td>10</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.89</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>41</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.89</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>189</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.88</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1024</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.86</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>299</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.85</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>154</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.85</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>260</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.83</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>628</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.83</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>71</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.78</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>375</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.78</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>549A</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.78</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>549B</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.78</td>
<td>1.32</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>39A</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.77</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>39B</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.77</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>535</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.77</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1067</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.76</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1060</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.76</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>726</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.76</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>783</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.76</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>187</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.75</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>996</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.75</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>841</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.74</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>996</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.74</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>731</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.74</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>70</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.73</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>260</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.71</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>628</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.71</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>79</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.70</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>512</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.68</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>780</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.67</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>101</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.67</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>467</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.67</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>127</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.66</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>560</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.64</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>819</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.64</td>
<td>1.31</td>
<td>1.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>535</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>-5.63</td>
<td>1.19</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>71</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.60</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>67</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.60</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>1060</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.59</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>535</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.58</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>628</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.55</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>40</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.55</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>299</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.54</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>96</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.62</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>71</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.60</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1060</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.59</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>535</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.58</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>628</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.55</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>40</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.55</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>836</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.53</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>219</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.52</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>673</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.52</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>190</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.52</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>189</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.52</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>926</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.52</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>153</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.52</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>673</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.51</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>41</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.51</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>419</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.51</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>926</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.51</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>39</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.51</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>355</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.51</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>10</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.50</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>260</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.49</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>673</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.49</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>473</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.49</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>189</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.49</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>260</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.47</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>C</td>
<td>550</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>-5.45</td>
<td>1.19</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>67</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.44</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>892</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.41</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>301</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.41</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>393</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.40</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>548</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.40</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>127</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.39</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>71</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.39</td>
<td>1.31</td>
<td>1.25</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>203</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.39</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>79</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.39</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>619</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.36</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>334</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.36</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>804[A]</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.35</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>804[B]</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.35</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>96</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.35</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>926</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.35</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>103</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.34</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>334</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.36</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>804[A]</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.35</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>804[B]</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.35</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>29</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.32</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>836</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.32</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>468</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.31</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>187</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.31</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>619</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.31</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>383</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>-5.31</td>
<td>1.19</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>124</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.30</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>278</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.30</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>383</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.29</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>81</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.28</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>761</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.28</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>624</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.27</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>189</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.26</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>39</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>-5.26</td>
<td>1.19</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>278</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.26</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>550</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.25</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1067</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.25</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>604</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.23</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>124</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.22</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>154</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.22</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>278</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.21</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>552</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>-5.20</td>
<td>1.20</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>819</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.20</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>595</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.19</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>187</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.19</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>41</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.19</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>318</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.19</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>235</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.15</td>
<td>1.31</td>
<td>1.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>127</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.14</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>124</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.14</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>970</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.14</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>29</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.12</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>780</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.12</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>365</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.11</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>203</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.11</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>970</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.11</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>761</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.11</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>882</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.11</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>427</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.10</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>393</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.09</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>910</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.09</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>39</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.08</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>25</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.08</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>624</td>
<td>GLU</td>
<td>CD-OE1</td>
<td>-5.07</td>
<td>1.20</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>393</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.06</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>916</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.06</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>403</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.06</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>208</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.06</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>633</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.06</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>841</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.05</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>71</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.05</td>
<td>1.31</td>
<td>1.25</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>944</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-15.12</td>
<td>112.74</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>187</td>
<td>GLU</td>
<td>CD-OE2</td>
<td>5.00</td>
<td>1.31</td>
<td>1.25</td>
</tr>
</tbody>
</table>

All (706) bond angle outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>514</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-15.12</td>
<td>112.74</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>944</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>14.25</td>
<td>127.42</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>514</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-14.00</td>
<td>113.30</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>104</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>13.43</td>
<td>127.02</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>652</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>13.13</td>
<td>126.87</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>810</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>12.83</td>
<td>126.72</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>43</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>11.39</td>
<td>126.00</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>75</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>11.24</td>
<td>125.92</td>
<td>120.30</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>514</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>11.07</td>
<td>125.84</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>42</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>-10.98</td>
<td>114.41</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>104</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>10.80</td>
<td>125.70</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>104</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>10.38</td>
<td>125.49</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>471</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>10.36</td>
<td>125.48</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>C</td>
<td>514</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>10.28</td>
<td>125.44</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>736</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-10.05</td>
<td>115.27</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>389</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>10.05</td>
<td>125.33</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>400</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>10.04</td>
<td>125.32</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>265</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>10.02</td>
<td>125.31</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>518</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-9.92</td>
<td>109.37</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>677</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>9.73</td>
<td>125.16</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>130[B]</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>9.66</td>
<td>125.13</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>130[A]</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>9.66</td>
<td>125.13</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>43</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-9.59</td>
<td>115.51</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>671</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>9.47</td>
<td>125.03</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>684</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-9.36</td>
<td>115.62</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>652</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>9.35</td>
<td>136.69</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1021</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>9.34</td>
<td>124.97</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>769</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-9.24</td>
<td>109.99</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>38</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>9.20</td>
<td>124.90</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>75</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-9.15</td>
<td>115.72</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>838</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>-9.10</td>
<td>115.54</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>188</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>8.89</td>
<td>124.75</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1020</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.87</td>
<td>124.73</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>625</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.87</td>
<td>110.32</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>579</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>8.86</td>
<td>126.27</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>956</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.85</td>
<td>115.88</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>460</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.80</td>
<td>124.70</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>518</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>8.79</td>
<td>126.21</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>671</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.69</td>
<td>115.96</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>131</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.66</td>
<td>124.63</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>131</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.60</td>
<td>124.60</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>188</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>8.59</td>
<td>126.03</td>
<td>118.30</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>509</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.59</td>
<td>124.59</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>128</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.57</td>
<td>110.59</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>112</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>8.56</td>
<td>126.00</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1020</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.52</td>
<td>116.04</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>972</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.52</td>
<td>110.63</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>43</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.51</td>
<td>116.05</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>97</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.46</td>
<td>110.68</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>956</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.43</td>
<td>116.09</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>43</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.42</td>
<td>124.51</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>373</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.41</td>
<td>116.09</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>517</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.38</td>
<td>124.49</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>652</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>8.36</td>
<td>124.48</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>128</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.35</td>
<td>110.79</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>579</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.32</td>
<td>110.81</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>425</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.32</td>
<td>116.14</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>972</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.32</td>
<td>110.81</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>609</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.31</td>
<td>110.82</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>372</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.31</td>
<td>110.82</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>944</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.31</td>
<td>124.45</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>579</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.27</td>
<td>110.86</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>223</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.27</td>
<td>110.86</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>810</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-8.27</td>
<td>116.17</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>416</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.25</td>
<td>110.88</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>753</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.24</td>
<td>110.88</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>416</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>8.23</td>
<td>125.71</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>611</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.22</td>
<td>110.91</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>104</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.20</td>
<td>124.40</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>223</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>8.16</td>
<td>125.64</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>136</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-8.11</td>
<td>111.00</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>42</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>-8.10</td>
<td>116.14</td>
<td>121.00</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>342</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.09</td>
<td>124.34</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>222</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.05</td>
<td>124.32</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>558</td>
<td>ASP</td>
<td>N-CA-CB</td>
<td>-8.04</td>
<td>96.12</td>
<td>110.60</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>671</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>8.02</td>
<td>124.31</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1004</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.99</td>
<td>124.30</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>136</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.99</td>
<td>111.11</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>733</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.96</td>
<td>111.13</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>223</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.95</td>
<td>111.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>6</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.94</td>
<td>111.15</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>248</td>
<td>ASP</td>
<td>N-CA-CB</td>
<td>-7.94</td>
<td>96.31</td>
<td>110.60</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>6</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.93</td>
<td>111.16</td>
<td>118.30</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>306</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.93</td>
<td>124.27</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>50</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.91</td>
<td>124.25</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>6</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.90</td>
<td>125.41</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>227</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.89</td>
<td>125.40</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>459</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.87</td>
<td>111.22</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>670</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.86</td>
<td>125.38</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>378</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.86</td>
<td>124.23</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>609</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.86</td>
<td>111.23</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>223</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.86</td>
<td>125.37</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>609</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.84</td>
<td>124.22</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>128</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.86</td>
<td>125.37</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>227</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.89</td>
<td>125.40</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>459</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.87</td>
<td>111.22</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1021</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.85</td>
<td>124.23</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>50</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.84</td>
<td>124.22</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>998</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.84</td>
<td>124.22</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>867</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.83</td>
<td>124.21</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>248</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.82</td>
<td>111.27</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>223</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.82</td>
<td>111.26</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>112</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.80</td>
<td>111.28</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>558</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.79</td>
<td>111.29</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>631</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.77</td>
<td>124.19</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>38</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.76</td>
<td>116.42</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>326</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.75</td>
<td>116.42</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>188</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.75</td>
<td>111.33</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>211</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.74</td>
<td>111.34</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>227</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.74</td>
<td>111.34</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>342</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.74</td>
<td>116.43</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>912</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.72</td>
<td>124.16</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>372</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.71</td>
<td>111.36</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>674</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.71</td>
<td>111.37</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>212</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.70</td>
<td>116.45</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>42</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>7.69</td>
<td>125.62</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>736</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.69</td>
<td>124.15</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>579</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.69</td>
<td>125.22</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>459</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.68</td>
<td>125.21</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>611</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.66</td>
<td>125.19</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1054</td>
<td>LEU</td>
<td>N-CA-CB</td>
<td>-7.66</td>
<td>95.08</td>
<td>110.40</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>249</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.65</td>
<td>111.42</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>112</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.64</td>
<td>111.42</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>11</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.60</td>
<td>111.46</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>631</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.60</td>
<td>124.10</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>317</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.59</td>
<td>125.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1021</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.59</td>
<td>124.09</td>
<td>120.30</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>959</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.58</td>
<td>111.47</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>306</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.58</td>
<td>124.09</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>609</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.57</td>
<td>125.11</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>922</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.56</td>
<td>116.52</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>959</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.56</td>
<td>111.50</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>753</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.52</td>
<td>111.53</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>736</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.52</td>
<td>124.06</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>490</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.51</td>
<td>124.05</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>753</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.52</td>
<td>111.53</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>262</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.50</td>
<td>125.05</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>736</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.50</td>
<td>124.05</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>730</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.49</td>
<td>111.56</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>736</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.49</td>
<td>124.04</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>736</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.49</td>
<td>124.04</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>959</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.51</td>
<td>124.05</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>579</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.47</td>
<td>111.57</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>922</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.49</td>
<td>124.04</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1021</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.47</td>
<td>116.56</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>161</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.47</td>
<td>111.58</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>317</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.45</td>
<td>111.59</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>124</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.45</td>
<td>125.01</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>520</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-7.44</td>
<td>116.54</td>
<td>121.00</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>15</td>
<td>PHE</td>
<td>CB-CG-CD2</td>
<td>7.43</td>
<td>126.00</td>
<td>120.80</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>807</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.43</td>
<td>111.61</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>959</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.43</td>
<td>111.62</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>989</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.41</td>
<td>124.00</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>6</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.41</td>
<td>124.97</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>211</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.41</td>
<td>111.63</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>487</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.41</td>
<td>124.96</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>609</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.41</td>
<td>124.96</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>227</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.35</td>
<td>111.69</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>136</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.34</td>
<td>111.69</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>227</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.34</td>
<td>111.69</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>579</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.34</td>
<td>124.90</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>128</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.33</td>
<td>124.90</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>558</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.33</td>
<td>111.71</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>944</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.33</td>
<td>123.96</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>867</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.32</td>
<td>116.64</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>652</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.32</td>
<td>116.64</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>197</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.32</td>
<td>111.72</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>614</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.32</td>
<td>111.72</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>248</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.31</td>
<td>111.72</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>226</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.31</td>
<td>124.88</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>959</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.28</td>
<td>111.75</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>136</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.27</td>
<td>124.84</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>6</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.27</td>
<td>111.76</td>
<td>118.30</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>611</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.26</td>
<td>124.84</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>558</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.25</td>
<td>124.83</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>194</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.25</td>
<td>116.67</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>530</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.24</td>
<td>111.78</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>116</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.24</td>
<td>123.92</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>362</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.23</td>
<td>111.79</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>326</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.23</td>
<td>123.91</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>611</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.22</td>
<td>111.80</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>487</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.22</td>
<td>111.80</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>558</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.21</td>
<td>111.81</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>27</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.19</td>
<td>124.77</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1030</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.18</td>
<td>123.89</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>84</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.18</td>
<td>111.84</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>124</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.16</td>
<td>111.85</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>416</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.16</td>
<td>111.86</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>670</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.16</td>
<td>111.86</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>769</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.14</td>
<td>124.73</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>765</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.14</td>
<td>124.73</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>249</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.14</td>
<td>111.87</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>838</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>7.14</td>
<td>125.28</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>333</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.14</td>
<td>111.88</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>675</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.13</td>
<td>123.86</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>361</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.13</td>
<td>123.86</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>50</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.11</td>
<td>116.75</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>223</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.09</td>
<td>124.68</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>501</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.07</td>
<td>116.76</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>667</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.07</td>
<td>111.93</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>471</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.07</td>
<td>123.83</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>246</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>7.06</td>
<td>124.65</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>97</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.05</td>
<td>111.96</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>262</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.05</td>
<td>111.96</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>490</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.05</td>
<td>116.78</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>114</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.04</td>
<td>111.96</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>83</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-7.03</td>
<td>116.78</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>237</td>
<td>PHE</td>
<td>CB-CG-CD1</td>
<td>-7.03</td>
<td>115.88</td>
<td>120.80</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>845</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>7.03</td>
<td>123.81</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>333</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-7.03</td>
<td>111.97</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>82</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-7.00</td>
<td>116.80</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>15</td>
<td>PHE</td>
<td>CB-CG-CD1</td>
<td>-6.99</td>
<td>115.91</td>
<td>120.80</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>509</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.99</td>
<td>123.80</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>129</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.99</td>
<td>123.79</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>188</td>
<td>ARG</td>
<td>CB-CG-OD1</td>
<td>6.98</td>
<td>124.58</td>
<td>118.30</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>F</td>
<td>262</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.96</td>
<td>124.56</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>342</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.95</td>
<td>123.78</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>675</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.93</td>
<td>123.77</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>43</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.93</td>
<td>123.76</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>625</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.91</td>
<td>124.52</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>715</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.88</td>
<td>123.74</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>212</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.87</td>
<td>123.74</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>43</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.87</td>
<td>116.86</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>471</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.86</td>
<td>116.87</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>460</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.86</td>
<td>116.87</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>558</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.86</td>
<td>112.13</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>733</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.85</td>
<td>112.13</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>223</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.85</td>
<td>124.46</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>670</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.84</td>
<td>112.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>131</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.84</td>
<td>116.88</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>97</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>-6.83</td>
<td>112.15</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>82</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.82</td>
<td>123.71</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>490[A]</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.82</td>
<td>123.71</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>490[B]</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.82</td>
<td>123.71</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>956</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.82</td>
<td>116.89</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>215</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.82</td>
<td>123.71</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>435</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.81</td>
<td>116.89</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>67</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.81</td>
<td>124.43</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>50</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.81</td>
<td>123.70</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>517</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.80</td>
<td>116.90</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>317</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.79</td>
<td>112.19</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>757</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.76</td>
<td>124.39</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>124</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.74</td>
<td>112.24</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>330</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-6.73</td>
<td>116.96</td>
<td>121.00</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>227</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.73</td>
<td>112.24</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>848</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.72</td>
<td>123.66</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>763</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.72</td>
<td>112.25</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>460</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.71</td>
<td>116.94</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>133</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.71</td>
<td>112.26</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>223</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.71</td>
<td>112.26</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>211</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.71</td>
<td>112.26</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>609</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.68</td>
<td>124.32</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>490</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.68</td>
<td>123.64</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>97</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.67</td>
<td>124.31</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>334</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.67</td>
<td>112.30</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>434</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.67</td>
<td>112.30</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>333</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.67</td>
<td>112.30</td>
<td>118.30</td>
</tr>
</tbody>
</table>

Continued on next page...
Mol | Chain | Res | Type | Atoms       | Z    | Observed(°) | Ideal(°) |
---|-------|-----|------|-------------|------|-------------|----------|
1  | G     | 330 | TYR  | CB-CG-CD2   | -6.67| 117.00      | 121.00   |
2  | F     | 198 | ASP  | CB-CG-OD1   | 6.66 | 124.30      | 118.30   |
1  | G     | 338 | ASP  | CB-CG-OD2   | -6.66| 112.31      | 118.30   |
2  | B     | 342 | ARG  | NE-CZ-NH2   | -6.66| 116.97      | 120.30   |
1  | A     | 810 | ARG  | NE-CZ-NH2   | -6.65| 116.97      | 120.30   |
1  | C     | 84  | ASP  | CB-CG-OD2   | -6.65| 112.31      | 118.30   |
1  | G     | 625 | ASP  | CB-CG-OD1   | 6.64 | 124.28      | 118.30   |
1  | E     | 246 | ASP  | CB-CG-OD1   | 6.62 | 124.26      | 118.30   |
1  | C     | 124 | ASP  | CB-CG-OD2   | -6.62| 112.35      | 118.30   |
1  | E     | 128 | ASP  | CB-CG-OD1   | 6.62 | 124.25      | 118.30   |
1  | C     | 104 | ARG  | NE-CZ-NH1   | 6.61 | 123.61      | 120.30   |
1  | A     | 810 | ARG  | NE-CZ-NH2   | -6.59| 117.01      | 120.30   |
2  | B     | 198 | ASP  | CB-CG-OD2   | -6.61| 112.36      | 118.30   |
1  | C     | 579 | ASP  | CB-CG-OD2   | -6.61| 112.36      | 118.30   |
2  | D     | 262 | ASP  | CB-CG-OD2   | -6.61| 112.36      | 118.30   |
1  | E     | 372 | ASP  | CB-CG-OD1   | 6.60 | 124.24      | 118.30   |
2  | F     | 139 | ASP  | CB-CG-OD2   | -6.60| 112.36      | 118.30   |
1  | A     | 128 | ASP  | CB-CG-OD2   | -6.59| 112.37      | 118.30   |
1  | C     | 227 | ASP  | CB-CG-OD1   | 6.59 | 124.23      | 118.30   |
2  | D     | 148 | ARG  | NE-CZ-NH1   | 6.59 | 123.59      | 120.30   |
2  | D     | 148 | ARG  | NE-CZ-NH1   | 6.59 | 123.59      | 120.30   |
1  | E     | 471 | ARG  | NE-CZ-NH2   | -6.59| 117.01      | 120.30   |
1  | G     | 530 | ASP  | CB-CG-OD2   | -6.58| 112.38      | 118.30   |
1  | C     | 715 | ARG  | NE-CZ-NH2   | 6.57 | 123.58      | 120.30   |
2  | F     | 269 | CYS  | CA-CB-SG    | 6.55 | 125.79      | 114.00   |
1  | G     | 426 | ARG  | NE-CZ-NH2   | -6.55| 117.03      | 120.30   |
1  | G     | 426 | ARG  | NE-CZ-NH2   | -6.55| 117.03      | 120.30   |
1  | A     | 169 | ARG  | NE-CZ-NH1   | 6.55 | 123.57      | 120.30   |
1  | C     | 1027| ARG  | NE-CZ-NH1   | 6.54 | 123.57      | 120.30   |
1  | A     | 459 | ASP  | CB-CG-OD2   | -6.54| 112.41      | 118.30   |
1  | A     | 287 | ALA  | N-CA-CB     | 6.54 | 119.26      | 110.10   |
1  | A     | 343 | ARG  | NE-CZ-NH1   | 6.54 | 123.57      | 120.30   |
1  | G     | 258 | ASP  | CB-CG-OD2   | -6.54| 112.42      | 118.30   |
1  | G     | 294 | ARG  | NE-CZ-NH2   | -6.53| 117.03      | 120.30   |
1  | G     | 757 | ASP  | CB-CG-OD1   | 6.53 | 124.17      | 118.30   |
1  | A     | 667 | ASP  | CB-CG-OD2   | -6.52| 112.43      | 118.30   |
1  | A     | 460 | ARG  | NE-CZ-NH1   | 6.52 | 123.56      | 120.30   |
2  | D     | 67  | ASP  | CB-CG-OD2   | -6.51| 112.44      | 118.30   |
1  | G     | 226 | ASP  | CB-CG-OD2   | -6.51| 112.44      | 118.30   |
2  | B     | 317 | ASP  | CB-CG-OD1   | 6.50 | 124.15      | 118.30   |
1  | C     | 57  | ASP  | CB-CG-OD2   | -6.50| 112.45      | 118.30   |
1  | C     | 258 | ASP  | CB-CG-OD1   | 6.49 | 124.14      | 118.30   

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>670</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.49</td>
<td>124.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>614</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.49</td>
<td>124.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1041</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.48</td>
<td>124.13</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>317</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.47</td>
<td>124.13</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>642</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-6.47</td>
<td>117.12</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>539</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.47</td>
<td>112.48</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>258</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.46</td>
<td>124.12</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>410</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.46</td>
<td>124.11</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>944</td>
<td>ARG</td>
<td>NH1-CZ-NH2</td>
<td>-6.45</td>
<td>112.30</td>
<td>119.40</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1025</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.45</td>
<td>124.10</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>84</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.45</td>
<td>124.10</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>791</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.44</td>
<td>124.10</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>373</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.44</td>
<td>123.52</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>84</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.43</td>
<td>112.51</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>50</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.43</td>
<td>117.08</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>410</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.43</td>
<td>124.09</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>736</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.41</td>
<td>117.09</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>84</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.41</td>
<td>124.07</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>192</td>
<td>PHE</td>
<td>CB-CG-CD1</td>
<td>-6.41</td>
<td>116.31</td>
<td>120.80</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>972</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.41</td>
<td>112.53</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>991</td>
<td>VAL</td>
<td>CA-CB-CG1</td>
<td>6.41</td>
<td>120.51</td>
<td>110.90</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>631</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.40</td>
<td>123.50</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1025</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.38</td>
<td>124.04</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>592</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.37</td>
<td>112.56</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>124</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.36</td>
<td>124.03</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>43</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.36</td>
<td>117.12</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>294</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.35</td>
<td>123.47</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>989</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.35</td>
<td>117.12</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>944</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.34</td>
<td>123.47</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>333</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.34</td>
<td>124.01</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>763</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.34</td>
<td>124.01</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>188</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.34</td>
<td>124.00</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>57</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.33</td>
<td>112.60</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1025</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.32</td>
<td>112.61</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>757</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.32</td>
<td>112.61</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>494</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.31</td>
<td>123.45</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>667</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.30</td>
<td>112.63</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>753</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.30</td>
<td>112.63</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>733</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.30</td>
<td>112.63</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>735</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.30</td>
<td>117.15</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>149</td>
<td>ALA</td>
<td>N-CA-CB</td>
<td>6.28</td>
<td>118.90</td>
<td>110.10</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>57</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.28</td>
<td>123.95</td>
<td>118.30</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>161</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.28</td>
<td>112.65</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>226</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.28</td>
<td>123.95</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>317</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.27</td>
<td>112.66</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>262</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.27</td>
<td>112.66</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>112</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.26</td>
<td>123.94</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>249</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.26</td>
<td>112.67</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>249</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.26</td>
<td>123.93</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>434</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.26</td>
<td>123.93</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>807</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.25</td>
<td>123.92</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>441</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.25</td>
<td>123.92</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>460</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.25</td>
<td>123.42</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>521</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.23</td>
<td>112.69</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>169</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.22</td>
<td>123.41</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>807</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.21</td>
<td>123.89</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>27</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.20</td>
<td>112.72</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>211</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.19</td>
<td>123.88</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>261</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-6.19</td>
<td>117.28</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>609</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.19</td>
<td>112.73</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>539</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.19</td>
<td>112.73</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>227</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.18</td>
<td>123.86</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>130</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.18</td>
<td>123.39</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>956</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.18</td>
<td>123.39</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>757</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.17</td>
<td>123.85</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>249</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.17</td>
<td>112.75</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>6</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.14</td>
<td>112.77</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>416</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.14</td>
<td>112.78</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>460</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.13</td>
<td>117.23</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>148</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.13</td>
<td>117.23</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>211</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.13</td>
<td>112.78</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>670</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.12</td>
<td>123.81</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>161</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.11</td>
<td>112.80</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>716</td>
<td>PRO</td>
<td>N-CA-CB</td>
<td>6.11</td>
<td>110.64</td>
<td>103.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>991</td>
<td>VAL</td>
<td>CA-CB-CG2</td>
<td>6.11</td>
<td>120.07</td>
<td>110.90</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>959</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.11</td>
<td>123.80</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>6</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.11</td>
<td>123.80</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>197</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.11</td>
<td>123.80</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>416</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.11</td>
<td>112.81</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>769</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.09</td>
<td>112.82</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>959</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.09</td>
<td>123.78</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>400</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.09</td>
<td>117.26</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>558</td>
<td>ASP</td>
<td>N-CA-CB</td>
<td>-6.08</td>
<td>99.65</td>
<td>110.60</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>197</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.08</td>
<td>123.77</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>592</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.08</td>
<td>112.83</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>539</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.07</td>
<td>123.77</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>246</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.07</td>
<td>112.84</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>211</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.07</td>
<td>123.76</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>128</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.05</td>
<td>112.85</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>539</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.05</td>
<td>112.85</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>197</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.05</td>
<td>112.85</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>211</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.07</td>
<td>123.76</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>246</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.07</td>
<td>112.84</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>211</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.07</td>
<td>123.76</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>294</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.05</td>
<td>117.28</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>539</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.05</td>
<td>112.85</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>169</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.04</td>
<td>117.28</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>246</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.05</td>
<td>112.85</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>539</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.05</td>
<td>112.85</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>169</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-6.02</td>
<td>123.73</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>238</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.04</td>
<td>123.74</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>652</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>6.02</td>
<td>132.03</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>670</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>6.02</td>
<td>123.72</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>169</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>6.02</td>
<td>123.31</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>757</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-6.01</td>
<td>112.89</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>42</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>6.00</td>
<td>124.60</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>28</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-5.99</td>
<td>117.41</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>333</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.99</td>
<td>123.69</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>487</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.97</td>
<td>123.67</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1010</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.97</td>
<td>123.67</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>810</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.95</td>
<td>123.28</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>559</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.95</td>
<td>117.33</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>758</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.95</td>
<td>123.65</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>499</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.95</td>
<td>123.65</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>333</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.95</td>
<td>123.65</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>487</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.97</td>
<td>123.67</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>105</td>
<td>HIS</td>
<td>CA-CB-CG</td>
<td>-5.95</td>
<td>103.49</td>
<td>113.60</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1057</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.94</td>
<td>123.65</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>499</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.94</td>
<td>112.95</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>136</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.94</td>
<td>123.64</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>539</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.93</td>
<td>112.96</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>139</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.93</td>
<td>112.96</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>114</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.92</td>
<td>123.63</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>299</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.92</td>
<td>112.97</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>82</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.92</td>
<td>117.34</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>758</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.92</td>
<td>123.62</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>344</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.91</td>
<td>112.98</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>84</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.90</td>
<td>112.99</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>517</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.90</td>
<td>123.25</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>810</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.90</td>
<td>123.25</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>823</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.90</td>
<td>123.25</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>344</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.89</td>
<td>113.00</td>
<td>118.30</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>128</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.89</td>
<td>113.00</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>42</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>-5.89</td>
<td>117.47</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>974</td>
<td>THR</td>
<td>CA-CB-CG2</td>
<td>-5.88</td>
<td>104.16</td>
<td>112.40</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>441</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.88</td>
<td>113.00</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>557</td>
<td>THR</td>
<td>C-N-CA</td>
<td>5.88</td>
<td>136.41</td>
<td>121.70</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>338</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.88</td>
<td>113.01</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>299</td>
<td>THR</td>
<td>CA-CB-CG2</td>
<td>5.88</td>
<td>123.59</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>441</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.88</td>
<td>113.00</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>557</td>
<td>THR</td>
<td>C-N-CA</td>
<td>5.88</td>
<td>136.41</td>
<td>121.70</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1025</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.87</td>
<td>113.01</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>238</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.87</td>
<td>123.58</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>215</td>
<td>ARG</td>
<td>N-CA-CB</td>
<td>-5.87</td>
<td>100.04</td>
<td>110.60</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>84</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.86</td>
<td>123.58</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>521</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.86</td>
<td>123.58</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>959</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.85</td>
<td>123.57</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>161</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.84</td>
<td>113.04</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>449</td>
<td>VAL</td>
<td>CA-CB-CG2</td>
<td>-5.83</td>
<td>102.15</td>
<td>110.90</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>944</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.83</td>
<td>117.39</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1025</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.83</td>
<td>123.55</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>372</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.83</td>
<td>113.06</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>211</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.83</td>
<td>123.54</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>57</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.83</td>
<td>123.54</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>226</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.82</td>
<td>113.06</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>674</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.82</td>
<td>123.54</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>4</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.81</td>
<td>123.21</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>334</td>
<td>GLU</td>
<td>CB-CA-C</td>
<td>-5.81</td>
<td>98.78</td>
<td>110.40</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>251</td>
<td>ALA</td>
<td>N-CA-CB</td>
<td>5.81</td>
<td>118.23</td>
<td>110.10</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>248</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.80</td>
<td>123.52</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1057</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.79</td>
<td>113.09</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>791</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.79</td>
<td>113.09</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>730</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.78</td>
<td>113.09</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>430</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.78</td>
<td>113.10</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>430</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.78</td>
<td>113.10</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>131</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.77</td>
<td>117.41</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>716</td>
<td>PRO</td>
<td>N-CA-CB</td>
<td>5.77</td>
<td>110.23</td>
<td>103.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>441</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.77</td>
<td>113.11</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>758</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.76</td>
<td>113.11</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>807</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.76</td>
<td>113.11</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>904</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.76</td>
<td>123.49</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>207</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.76</td>
<td>113.12</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>112</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.76</td>
<td>123.48</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>625</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.75</td>
<td>123.48</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>974</td>
<td>THR</td>
<td>CA-CB-CG2</td>
<td>-5.75</td>
<td>104.35</td>
<td>112.40</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>684</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.75</td>
<td>123.17</td>
<td>120.30</td>
</tr>
</tbody>
</table>
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>2</td>
<td>D</td>
<td>128</td>
<td>GLN</td>
<td>CB-CA-C</td>
<td>-5.75</td>
<td>98.91</td>
<td>110.40</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>642</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-5.74</td>
<td>117.56</td>
<td>121.00</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>136</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.74</td>
<td>113.14</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>131</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.73</td>
<td>117.44</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>244</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.72</td>
<td>123.45</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>362</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.71</td>
<td>123.44</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>912</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.71</td>
<td>123.16</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>677</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.71</td>
<td>117.45</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>129</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.70</td>
<td>123.15</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>950</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.70</td>
<td>117.45</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>434</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.70</td>
<td>113.17</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1020</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>5.69</td>
<td>131.57</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>912</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>5.69</td>
<td>131.57</td>
<td>123.60</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>84</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.68</td>
<td>113.19</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>154</td>
<td>ASN</td>
<td>N-CA-CB</td>
<td>5.67</td>
<td>120.81</td>
<td>110.60</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>129</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.67</td>
<td>117.47</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>674</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.66</td>
<td>113.20</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>373</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.66</td>
<td>123.13</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>730</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.65</td>
<td>123.38</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>558</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.64</td>
<td>123.38</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>133</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.64</td>
<td>123.38</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>133</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.64</td>
<td>123.38</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>273</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.66</td>
<td>123.38</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>84</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.64</td>
<td>113.22</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>667</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.64</td>
<td>123.37</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>127</td>
<td>ALA</td>
<td>N-CA-CB</td>
<td>5.63</td>
<td>117.99</td>
<td>110.10</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>198</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.62</td>
<td>113.24</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>362</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.62</td>
<td>113.24</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>998</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.62</td>
<td>117.49</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>501</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.62</td>
<td>123.11</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>558</td>
<td>ASP</td>
<td>N-CA-CB</td>
<td>-5.62</td>
<td>100.48</td>
<td>110.60</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.62</td>
<td>113.25</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>716</td>
<td>PRO</td>
<td>N-CA-CB</td>
<td>5.61</td>
<td>110.04</td>
<td>103.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>84</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.61</td>
<td>123.35</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>579</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.61</td>
<td>123.35</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>609</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.61</td>
<td>113.25</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>154</td>
<td>ASN</td>
<td>CB-CA-C</td>
<td>5.60</td>
<td>121.61</td>
<td>110.40</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>716</td>
<td>PRO</td>
<td>N-CA-CB</td>
<td>5.60</td>
<td>110.02</td>
<td>103.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>373</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.59</td>
<td>117.50</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>133</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.59</td>
<td>113.27</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>82</td>
<td>ARG</td>
<td>CD-NE-CZ</td>
<td>5.59</td>
<td>131.42</td>
<td>123.60</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>45</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.58</td>
<td>113.28</td>
<td>118.30</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>487</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.58</td>
<td>113.28</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>169</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.58</td>
<td>117.51</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>249</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.58</td>
<td>123.32</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>386</td>
<td>ALA</td>
<td>N-CA-CB</td>
<td>5.58</td>
<td>117.91</td>
<td>110.10</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>625</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.57</td>
<td>123.32</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>684</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.57</td>
<td>123.09</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>119</td>
<td>THR</td>
<td>CA-CB-CG2</td>
<td>-5.57</td>
<td>104.60</td>
<td>112.40</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>159</td>
<td>ALA</td>
<td>CB-CA-C</td>
<td>5.66</td>
<td>118.44</td>
<td>110.10</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>557</td>
<td>THR</td>
<td>C-N-CA</td>
<td>5.66</td>
<td>135.59</td>
<td>121.70</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>709</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.54</td>
<td>123.29</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>H</td>
<td>139</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.54</td>
<td>123.29</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>625</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.54</td>
<td>113.31</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>344</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.54</td>
<td>113.31</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>258</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.54</td>
<td>123.28</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>326</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.53</td>
<td>123.07</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>B</td>
<td>139</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.53</td>
<td>113.32</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>534</td>
<td>GLU</td>
<td>CB-CA-C</td>
<td>-5.53</td>
<td>99.35</td>
<td>110.40</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>378</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.53</td>
<td>117.54</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>121</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.52</td>
<td>123.27</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>368</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.52</td>
<td>123.26</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>625</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.52</td>
<td>113.34</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>410</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.50</td>
<td>113.34</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>198</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.50</td>
<td>113.35</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>377</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-5.50</td>
<td>117.70</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>84</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.50</td>
<td>123.25</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>435</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.50</td>
<td>123.05</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1025</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.50</td>
<td>123.25</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>197</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>5.50</td>
<td>124.30</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>97</td>
<td>TYR</td>
<td>CB-CG-OD1</td>
<td>5.50</td>
<td>123.25</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>D</td>
<td>13</td>
<td>THR</td>
<td>CA-CB-CG2</td>
<td>-5.50</td>
<td>104.70</td>
<td>112.40</td>
</tr>
<tr>
<td>1</td>
<td>F</td>
<td>97</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.49</td>
<td>123.24</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>338</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.49</td>
<td>123.24</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>133</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.49</td>
<td>123.24</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>867</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.49</td>
<td>123.05</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>520</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-5.48</td>
<td>117.71</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>631</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.48</td>
<td>123.04</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>478</td>
<td>GLU</td>
<td>CB-CG-CD</td>
<td>-5.47</td>
<td>99.42</td>
<td>114.20</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>594</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-5.47</td>
<td>117.72</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1025</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.47</td>
<td>113.38</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>521</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.47</td>
<td>113.38</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>237</td>
<td>PHE</td>
<td>CB-CG-CD2</td>
<td>5.46</td>
<td>124.63</td>
<td>120.80</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>888</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>-5.46</td>
<td>117.72</td>
<td>121.00</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>2</td>
<td>H</td>
<td>93</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.46</td>
<td>123.03</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>667</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.46</td>
<td>123.22</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>457</td>
<td>ASN</td>
<td>N-CA-CB</td>
<td>5.46</td>
<td>120.43</td>
<td>110.60</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>344</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.46</td>
<td>123.21</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>118</td>
<td>ALA</td>
<td>N-CA-CB</td>
<td>5.45</td>
<td>117.73</td>
<td>110.10</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>38</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.45</td>
<td>123.02</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>248</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.44</td>
<td>123.20</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>362</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.44</td>
<td>123.20</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>459</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>-5.44</td>
<td>113.41</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>118</td>
<td>ALA</td>
<td>N-CA-CB</td>
<td>5.45</td>
<td>117.73</td>
<td>110.10</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>38</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.45</td>
<td>123.02</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>344</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.44</td>
<td>123.20</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>93</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.46</td>
<td>123.03</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>667</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.46</td>
<td>123.22</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>457</td>
<td>ASN</td>
<td>N-CA-CB</td>
<td>5.46</td>
<td>120.43</td>
<td>110.60</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>344</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.44</td>
<td>123.21</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>118</td>
<td>ALA</td>
<td>N-CA-CB</td>
<td>5.45</td>
<td>117.73</td>
<td>110.10</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>1</td>
<td>C</td>
<td>297</td>
<td>VAL</td>
<td>CA-CB-CG1</td>
<td>-5.33</td>
<td>102.91</td>
<td>110.90</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1003</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.33</td>
<td>113.51</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>344</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.33</td>
<td>113.51</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>559</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.32</td>
<td>122.96</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>830</td>
<td>PHE</td>
<td>CB-CA-C</td>
<td>-5.31</td>
<td>99.78</td>
<td>110.40</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>922</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.31</td>
<td>122.96</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1003</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.31</td>
<td>123.08</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>333</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.30</td>
<td>113.53</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>124</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.30</td>
<td>113.53</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>75</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.30</td>
<td>122.95</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>372</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.29</td>
<td>123.06</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>197</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>-5.29</td>
<td>117.83</td>
<td>121.00</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>652</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.29</td>
<td>117.66</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>27</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.29</td>
<td>113.54</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>216</td>
<td>LEU</td>
<td>CA-C-N</td>
<td>-5.29</td>
<td>105.57</td>
<td>117.20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>57</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.28</td>
<td>123.05</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>136</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.28</td>
<td>123.05</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>226</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.28</td>
<td>113.55</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>733</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.28</td>
<td>113.55</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>353</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.28</td>
<td>123.05</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>157</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.27</td>
<td>123.05</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>204</td>
<td>LEU</td>
<td>CB-CA-C</td>
<td>-5.27</td>
<td>100.19</td>
<td>110.20</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>244</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.27</td>
<td>113.56</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>487</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.26</td>
<td>123.04</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>608</td>
<td>THR</td>
<td>CA-CB-CG2</td>
<td>-5.25</td>
<td>105.05</td>
<td>112.40</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>807</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.25</td>
<td>113.58</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>247</td>
<td>PRO</td>
<td>C-N-CA</td>
<td>5.24</td>
<td>134.79</td>
<td>121.70</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>757</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.24</td>
<td>113.59</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>807</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.23</td>
<td>123.01</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>614</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.23</td>
<td>113.59</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>758</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.22</td>
<td>113.60</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>675</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.22</td>
<td>122.91</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>333</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.22</td>
<td>123.00</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>27</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.22</td>
<td>123.00</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>371</td>
<td>ASN</td>
<td>O-C-N</td>
<td>-5.21</td>
<td>114.36</td>
<td>122.70</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>154</td>
<td>ASN</td>
<td>N-CA-C</td>
<td>5.21</td>
<td>125.07</td>
<td>111.00</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>40</td>
<td>GLU</td>
<td>CG-CD-OE2</td>
<td>-5.21</td>
<td>107.88</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1041</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.21</td>
<td>122.99</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1025</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.21</td>
<td>113.61</td>
<td>118.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>112</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.21</td>
<td>122.99</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>730</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.21</td>
<td>122.98</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>757</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.20</td>
<td>122.98</td>
<td>118.30</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Res</th>
<th>Type</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>113.62</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>113.62</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>103.11</td>
<td>110.90</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.97</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>113.63</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.89</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.96</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>107.94</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>103.11</td>
<td>110.90</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>113.67</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.72</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.72</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>104.71</td>
<td>114.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.74</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.74</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.72</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.72</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>113.70</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.72</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>120.30</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>121.70</td>
<td>121.70</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.95</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.72</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.72</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>113.67</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>119.77</td>
<td>110.60</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.72</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>119.77</td>
<td>110.60</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>113.72</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>119.75</td>
<td>110.60</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>113.73</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.76</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>92.08</td>
<td>100.20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>100.22</td>
<td>110.40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>119.77</td>
<td>110.60</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>113.72</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>119.75</td>
<td>110.60</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>113.73</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>117.76</td>
<td>120.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>122.88</td>
<td>118.30</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>119.75</td>
<td>110.60</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(°)</th>
<th>Ideal(°)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>885</td>
<td>PRO</td>
<td>N-CA-CB</td>
<td>5.07</td>
<td>109.38</td>
<td>103.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>402</td>
<td>LEU</td>
<td>CB-CG-CD2</td>
<td>-5.06</td>
<td>102.39</td>
<td>111.00</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>27</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.06</td>
<td>122.86</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>530</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.06</td>
<td>113.75</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1054</td>
<td>LEU</td>
<td>CB-CA-C</td>
<td>-5.06</td>
<td>100.59</td>
<td>110.20</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>88</td>
<td>ILE</td>
<td>CB-CA-C</td>
<td>-5.06</td>
<td>101.49</td>
<td>111.60</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>269</td>
<td>CYS</td>
<td>N-CA-CB</td>
<td>5.05</td>
<td>119.70</td>
<td>110.60</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>614</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.05</td>
<td>122.85</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1000</td>
<td>HIS</td>
<td>CA-CB-CG</td>
<td>-5.05</td>
<td>105.01</td>
<td>113.60</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>471</td>
<td>ARG</td>
<td>NE-CZ-NH1</td>
<td>5.05</td>
<td>122.82</td>
<td>120.30</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>328</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.05</td>
<td>119.89</td>
<td>110.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>161</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.05</td>
<td>122.84</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>386</td>
<td>GLU</td>
<td>N-CA-CB</td>
<td>5.05</td>
<td>117.17</td>
<td>110.10</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>278</td>
<td>ASN</td>
<td>CA-CB-CG</td>
<td>-5.04</td>
<td>100.32</td>
<td>110.40</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>304</td>
<td>VAL</td>
<td>CA-CB-CG1</td>
<td>-5.04</td>
<td>103.34</td>
<td>110.90</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>344</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.03</td>
<td>122.83</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>912</td>
<td>ARG</td>
<td>NE-CZ-NH2</td>
<td>-5.03</td>
<td>117.79</td>
<td>120.30</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>279</td>
<td>THR</td>
<td>CA-CB-CG2</td>
<td>-5.03</td>
<td>105.36</td>
<td>112.40</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>338</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.03</td>
<td>113.78</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>818</td>
<td>PHE</td>
<td>CB-CG-CD1</td>
<td>5.02</td>
<td>124.32</td>
<td>120.80</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>248</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.01</td>
<td>122.81</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>226</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.01</td>
<td>122.81</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>791</td>
<td>ASP</td>
<td>CB-CG-OD2</td>
<td>-5.00</td>
<td>113.80</td>
<td>118.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>657</td>
<td>ALA</td>
<td>C-N-CA</td>
<td>-5.00</td>
<td>111.80</td>
<td>122.30</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1057</td>
<td>ASP</td>
<td>CB-CG-OD1</td>
<td>5.00</td>
<td>122.80</td>
<td>118.30</td>
</tr>
</tbody>
</table>

All (3) chirality outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atom</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>B</td>
<td>154</td>
<td>ASN</td>
<td>CA</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>154</td>
<td>ASN</td>
<td>CA</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>154</td>
<td>ASN</td>
<td>CA</td>
</tr>
</tbody>
</table>

There are no planarity outliers.

### 5.2 Too-close contacts 📝

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.
<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Non-H</th>
<th>H(model)</th>
<th>H(added)</th>
<th>Clashes</th>
<th>Symm-Clashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>8212</td>
<td>0</td>
<td>8255</td>
<td>231</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>8197</td>
<td>0</td>
<td>8225</td>
<td>254</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>8182</td>
<td>0</td>
<td>8216</td>
<td>209</td>
<td>0</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>8206</td>
<td>0</td>
<td>8247</td>
<td>340</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>2897</td>
<td>0</td>
<td>2860</td>
<td>147</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>2904</td>
<td>0</td>
<td>2869</td>
<td>133</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>2897</td>
<td>0</td>
<td>2860</td>
<td>128</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>2897</td>
<td>0</td>
<td>2860</td>
<td>213</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>A</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>E</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>G</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>A</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>B</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>C</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>D</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>E</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>F</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>G</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>H</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>A</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>E</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>G</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>A</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>C</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>D</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>F</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>G</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>H</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>54</td>
<td>0</td>
<td>24</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>C</td>
<td>54</td>
<td>0</td>
<td>24</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>54</td>
<td>0</td>
<td>24</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>54</td>
<td>0</td>
<td>24</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>A</td>
<td>9</td>
<td>0</td>
<td>11</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>C</td>
<td>9</td>
<td>0</td>
<td>11</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>E</td>
<td>9</td>
<td>0</td>
<td>11</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>G</td>
<td>9</td>
<td>0</td>
<td>11</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>A</td>
<td>9</td>
<td>0</td>
<td>20</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>C</td>
<td>9</td>
<td>0</td>
<td>20</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>E</td>
<td>9</td>
<td>0</td>
<td>20</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>G</td>
<td>9</td>
<td>0</td>
<td>20</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>

*Continued on next page...*
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 18.

All (1643) 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>2:F:245:PRO:HD3</td>
<td>2:F:270:LEU:HD11</td>
<td>1.51</td>
<td>0.91</td>
</tr>
<tr>
<td>2:D:322:PRO:HB2</td>
<td>2:D:324:ASN:HD21</td>
<td>1.35</td>
<td>0.91</td>
</tr>
<tr>
<td>1:E:1002:GLN:HE22</td>
<td>1:E:1006:LYS:HE3</td>
<td>1.34</td>
<td>0.91</td>
</tr>
<tr>
<td>2:D:322:PRO:HB2</td>
<td>2:D:324:ASN:ND2</td>
<td>1.87</td>
<td>0.90</td>
</tr>
<tr>
<td>2:H:195:VAL:HG23</td>
<td>2:H:233:PRO:HB3</td>
<td>1.54</td>
<td>0.90</td>
</tr>
<tr>
<td>1:G:1:MET:HB2</td>
<td>1:G:224:LYS:NZ</td>
<td>1.86</td>
<td>0.90</td>
</tr>
<tr>
<td>2:H:322:PRO:HB2</td>
<td>2:H:324:ASN:ND2</td>
<td>1.87</td>
<td>0.90</td>
</tr>
<tr>
<td>2:H:324:ASN:H</td>
<td>2:H:324:ASN:ND2</td>
<td>1.65</td>
<td>0.89</td>
</tr>
<tr>
<td>2:B:285:LYS:HG3</td>
<td>2:B:314:PHE:CE1</td>
<td>2.08</td>
<td>0.89</td>
</tr>
<tr>
<td>1:A:695:VAL:HG13</td>
<td>1:A:700:MET:HB3</td>
<td>1.55</td>
<td>0.87</td>
</tr>
<tr>
<td>1:G:728:VAL:CG1</td>
<td>1:G:733:ASP:HB3</td>
<td>2.05</td>
<td>0.87</td>
</tr>
<tr>
<td>1:C:670:ASP:HB3</td>
<td>1:C:677:ARG:HH21</td>
<td>1.39</td>
<td>0.86</td>
</tr>
<tr>
<td>1:C:695:VAL:HG13</td>
<td>1:C:700:MET:HB3</td>
<td>1.57</td>
<td>0.86</td>
</tr>
<tr>
<td>2:B:50:ARG:HH11</td>
<td>2:B:50:ARG:HG3</td>
<td>1.40</td>
<td>0.86</td>
</tr>
<tr>
<td>2:H:245:PRO:CD</td>
<td>2:H:270:LEU:HD11</td>
<td>2.05</td>
<td>0.86</td>
</tr>
<tr>
<td>2:D:285:LYS:HG3</td>
<td>2:D:314:PHE:CE1</td>
<td>2.12</td>
<td>0.85</td>
</tr>
<tr>
<td>2:D:324:ASN:HD22</td>
<td>2:D:324:ASN:N</td>
<td>1.67</td>
<td>0.85</td>
</tr>
<tr>
<td>1:E:728:VAL:HG13</td>
<td>1:E:733:ASP:HB3</td>
<td>1.57</td>
<td>0.85</td>
</tr>
<tr>
<td>1:G:509:ARG:HB2</td>
<td>1:G:509:ARG:HH11</td>
<td>1.42</td>
<td>0.84</td>
</tr>
<tr>
<td>1:C:687:LEU:HD13</td>
<td>1:C:812:GLN:HG2</td>
<td>1.57</td>
<td>0.84</td>
</tr>
<tr>
<td>2:B:57:TYR:CD1</td>
<td>2:B:58:PRO:HD2</td>
<td>2.13</td>
<td>0.84</td>
</tr>
<tr>
<td>1:C:728:VAL:CG1</td>
<td>1:C:733:ASP:HB3</td>
<td>2.08</td>
<td>0.83</td>
</tr>
<tr>
<td>1:E:695:VAL:HG21</td>
<td>1:E:701:ALA:HA</td>
<td>1.59</td>
<td>0.83</td>
</tr>
<tr>
<td>1:E:698:ILE:H</td>
<td>1:E:698:ILE:HD12</td>
<td>1.42</td>
<td>0.83</td>
</tr>
<tr>
<td>1:A:40:GLU:CG</td>
<td>1:A:325:LYS:HE2</td>
<td>2.07</td>
<td>0.83</td>
</tr>
<tr>
<td>1:A:728:VAL:HG13</td>
<td>1:A:733:ASP:HB3</td>
<td>1.58</td>
<td>0.83</td>
</tr>
<tr>
<td>1:E:695:VAL:HG11</td>
<td>1:E:701:ALA:HB2</td>
<td>1.60</td>
<td>0.83</td>
</tr>
<tr>
<td>1:G:784:GLN:HE21</td>
<td>1:G:784:GLN:H</td>
<td>0.86</td>
<td>0.83</td>
</tr>
<tr>
<td>2:D:324:ASN:ND2</td>
<td>2:D:324:ASN:H</td>
<td>1.77</td>
<td>0.83</td>
</tr>
<tr>
<td>2:H:6:LEU:HD11</td>
<td>2:H:8:VAL:CG2</td>
<td>2.08</td>
<td>0.83</td>
</tr>
<tr>
<td>2:H:6:LEU:HD11</td>
<td>2:H:8:VAL:HG23</td>
<td>1.58</td>
<td>0.83</td>
</tr>
<tr>
<td>2:H:27:VAL:CG2</td>
<td>2:H:131:CYS:HB2</td>
<td>2.05</td>
<td>0.83</td>
</tr>
<tr>
<td>1:A:130:ARG:HB2</td>
<td>1:A:148:ILE:HG13</td>
<td>1.60</td>
<td>0.82</td>
</tr>
<tr>
<td>2:D:227:ASP:HA</td>
<td>2:D:230:LYS:CD</td>
<td>2.08</td>
<td>0.82</td>
</tr>
<tr>
<td>1:G:475:LYS:HD2</td>
<td>1:G:488:PHE:HZ</td>
<td>2.14</td>
<td>0.82</td>
</tr>
<tr>
<td>1:G:563:MET:CE</td>
<td>1:G:635:PRO:HG3</td>
<td>2.10</td>
<td>0.81</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:C:693:ALA:HB2</td>
<td>1:C:708:ILE:HD11</td>
<td>1.61</td>
<td>0.81</td>
</tr>
<tr>
<td>1:E:967[B]:GLN:HE21</td>
<td>1:E:1054:LEU:HD13</td>
<td>1.43</td>
<td>0.81</td>
</tr>
<tr>
<td>1:G:768:CYS:HB2</td>
<td>1:G:773:VAL:HG22</td>
<td>1.63</td>
<td>0.80</td>
</tr>
<tr>
<td>1:G:872:LYS:HG2</td>
<td>1:G:877:GLN:HG2</td>
<td>1.64</td>
<td>0.80</td>
</tr>
<tr>
<td>2:D:228:VAL:HA</td>
<td>2:D:231:MET:CE</td>
<td>2.11</td>
<td>0.80</td>
</tr>
<tr>
<td>1:A:1073:LYS:N</td>
<td>1:A:1073:LYS:HD2</td>
<td>1.95</td>
<td>0.80</td>
</tr>
<tr>
<td>1:A:130[B]:ARG:HB2</td>
<td>1:A:148:ILE:HG13</td>
<td>1.64</td>
<td>0.80</td>
</tr>
<tr>
<td>1:G:708:ILE:CG2</td>
<td>1:G:712:LEU:HD11</td>
<td>2.12</td>
<td>0.79</td>
</tr>
<tr>
<td>1:G:991:VAL:HB</td>
<td>11:G:1721:HOH:O</td>
<td>1.83</td>
<td>0.79</td>
</tr>
<tr>
<td>1:G:225:ASN:ND2</td>
<td>1:G:331:THR:HG21</td>
<td>1.97</td>
<td>0.79</td>
</tr>
<tr>
<td>1:C:695:VAL:HG11</td>
<td>1:C:701:ALA:HB2</td>
<td>1.64</td>
<td>0.78</td>
</tr>
<tr>
<td>1:E:509:ARG:HH11</td>
<td>1:E:509:ARG:CB</td>
<td>1.97</td>
<td>0.78</td>
</tr>
<tr>
<td>2:F:263:ILE:HG22</td>
<td>2:F:264:PRO:HD2</td>
<td>1.65</td>
<td>0.78</td>
</tr>
<tr>
<td>2:H:57:TYR:CD1</td>
<td>2:H:58:PRO:HD2</td>
<td>2.19</td>
<td>0.78</td>
</tr>
<tr>
<td>1:G:728:VAL:HG12</td>
<td>1:G:733:ASP:HB3</td>
<td>1.66</td>
<td>0.77</td>
</tr>
<tr>
<td>1:G:479:VAL:CG2</td>
<td>1:G:483:GLY:HA3</td>
<td>2.14</td>
<td>0.77</td>
</tr>
<tr>
<td>1:G:726:GLU:HG3</td>
<td>1:G:727:ILE:N</td>
<td>2.00</td>
<td>0.77</td>
</tr>
<tr>
<td>1:A:1020:ARG:O</td>
<td>1:A:1024:GLU:HG3</td>
<td>1.85</td>
<td>0.77</td>
</tr>
<tr>
<td>1:A:784:GLN:HE21</td>
<td>1:A:784:GLN:H</td>
<td>1.33</td>
<td>0.77</td>
</tr>
<tr>
<td>2:D:133:ILE:CD1</td>
<td>2:D:143:ALA:HB2</td>
<td>2.15</td>
<td>0.77</td>
</tr>
<tr>
<td>1:G:563:MET:HE1</td>
<td>1:G:635:PRO:HG3</td>
<td>1.66</td>
<td>0.77</td>
</tr>
<tr>
<td>1:A:725:MET:HE3</td>
<td>11:A:1609:HOH:O</td>
<td>1.84</td>
<td>0.77</td>
</tr>
<tr>
<td>2:B:194:VAL:HB</td>
<td>2:B:216:LEU:HD23</td>
<td>1.65</td>
<td>0.77</td>
</tr>
<tr>
<td>1:C:652:ARG:HH11</td>
<td>1:C:652:ARG:HG2</td>
<td>1.47</td>
<td>0.76</td>
</tr>
<tr>
<td>2:F:57:TYR:CD1</td>
<td>2:F:58:PRO:HD2</td>
<td>2.19</td>
<td>0.76</td>
</tr>
<tr>
<td>2:D:27:VAL:HG13</td>
<td>2:D:131:CYS:HB2</td>
<td>1.68</td>
<td>0.76</td>
</tr>
<tr>
<td>1:G:1020:ARG:O</td>
<td>1:G:1024:GLU:HG3</td>
<td>1.85</td>
<td>0.76</td>
</tr>
<tr>
<td>2:B:324:ASN:N</td>
<td>2:B:324:ASN:HD22</td>
<td>1.81</td>
<td>0.76</td>
</tr>
<tr>
<td>2:F:259:LEU:O</td>
<td>2:F:345:LYS:HE3</td>
<td>1.86</td>
<td>0.76</td>
</tr>
<tr>
<td>1:G:1017:THR:HG21</td>
<td>1:G:1023:ILE:HA</td>
<td>1.65</td>
<td>0.76</td>
</tr>
<tr>
<td>1:C:967[A]:GLN:HG3</td>
<td>1:C:1054:LEU:HD13</td>
<td>1.68</td>
<td>0.76</td>
</tr>
<tr>
<td>1:E:157:ALA:HA</td>
<td>11:E:1237:HOH:O</td>
<td>1.84</td>
<td>0.76</td>
</tr>
<tr>
<td>1:A:228:CYS:SG</td>
<td>1:A:269:MET:HG2</td>
<td>2.26</td>
<td>0.76</td>
</tr>
<tr>
<td>2:D:345:LYS:HB3</td>
<td>2:D:346:PRO:HD2</td>
<td>1.68</td>
<td>0.76</td>
</tr>
<tr>
<td>1:E:1020:ARG:O</td>
<td>1:E:1024:GLU:HG3</td>
<td>1.85</td>
<td>0.76</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:E:103:GLU:HG3</td>
<td>1:E:104:ARG:N</td>
<td>2.01</td>
<td>0.76</td>
</tr>
<tr>
<td>1:E:3:LYS:HB2</td>
<td>1:E:42:TYR:OH</td>
<td>1.85</td>
<td>0.75</td>
</tr>
<tr>
<td>2:H:71:GLU:O</td>
<td>2:H:203:ARG:HG3</td>
<td>1.87</td>
<td>0.75</td>
</tr>
<tr>
<td>1:G:57:ASP:HB3</td>
<td>1:G:59:GLU:OE1</td>
<td>1.86</td>
<td>0.75</td>
</tr>
<tr>
<td>2:B:322:PRO:HG2</td>
<td>2:B:324:ASN:HD21</td>
<td>1.51</td>
<td>0.75</td>
</tr>
<tr>
<td>1:C:3:LYS:HB3</td>
<td>1:C:330:TYR:CE1</td>
<td>2.22</td>
<td>0.75</td>
</tr>
<tr>
<td>1:C:675:ARG:CD</td>
<td>1:C:675:ARG:H</td>
<td>1.99</td>
<td>0.75</td>
</tr>
<tr>
<td>2:D:227:ASP:CA</td>
<td>2:D:230:LYS:HD2</td>
<td>2.12</td>
<td>0.75</td>
</tr>
<tr>
<td>1:E:693:ALA:HB3</td>
<td>1:E:708:IIE:HD11</td>
<td>1.68</td>
<td>0.75</td>
</tr>
<tr>
<td>1:A:726:GLU:HG3</td>
<td>1:A:727:IIE:N</td>
<td>2.00</td>
<td>0.74</td>
</tr>
<tr>
<td>2:D:50:ARG:HD2</td>
<td>2:D:50:ARG:N</td>
<td>2.01</td>
<td>0.74</td>
</tr>
<tr>
<td>1:G:695:VAL:HG13</td>
<td>1:G:700:MET:HB3</td>
<td>1.69</td>
<td>0.74</td>
</tr>
<tr>
<td>1:C:693:ALA:CB</td>
<td>1:C:708:IIE:HD11</td>
<td>2.16</td>
<td>0.74</td>
</tr>
<tr>
<td>1:C:1020:ARG:O</td>
<td>1:C:1024:GLU:HG3</td>
<td>1.87</td>
<td>0.74</td>
</tr>
<tr>
<td>2:B:324:ASN:H</td>
<td>2:B:324:ASN:HD22</td>
<td>1.36</td>
<td>0.74</td>
</tr>
<tr>
<td>2:D:8:VAL:HG22</td>
<td>2:D:14:GLN:HG2</td>
<td>1.70</td>
<td>0.74</td>
</tr>
<tr>
<td>1:A:563:MET:HE3</td>
<td>1:A:635:PRO:HG3</td>
<td>1.69</td>
<td>0.74</td>
</tr>
<tr>
<td>2:D:228:VAL:HA</td>
<td>2:D:231:MET:HE2</td>
<td>1.68</td>
<td>0.74</td>
</tr>
<tr>
<td>2:D:282:LYS:HG3</td>
<td>2:D:320:THR:HG21</td>
<td>1.68</td>
<td>0.74</td>
</tr>
<tr>
<td>1:A:1001:IIE:HD12</td>
<td>1:A:1002:GLN:N</td>
<td>2.03</td>
<td>0.73</td>
</tr>
<tr>
<td>2:B:139:ASP:OD2</td>
<td>2:B:142:LEU:HB2</td>
<td>1.89</td>
<td>0.73</td>
</tr>
<tr>
<td>1:G:64:THR:O</td>
<td>1:G:1065:VAL:HG3</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>1:A:449:VAL:N</td>
<td>11:A:1435:HOH:O</td>
<td>2.21</td>
<td>0.73</td>
</tr>
<tr>
<td>2:D:226:GLU:O</td>
<td>2:D:230:LYS:HG3</td>
<td>1.87</td>
<td>0.73</td>
</tr>
<tr>
<td>2:H:16:HIS:O</td>
<td>2:H:113:IIE:HG22</td>
<td>1.88</td>
<td>0.73</td>
</tr>
<tr>
<td>1:C:967[B]:GLN:HG2</td>
<td>1:C:1054:LEU:HD13</td>
<td>1.69</td>
<td>0.73</td>
</tr>
<tr>
<td>2:D:150:PHE:CE1</td>
<td>2:D:152:GLY:HA2</td>
<td>2.24</td>
<td>0.73</td>
</tr>
<tr>
<td>1:G:423:LYS:HB3</td>
<td>11:G:1397:HOH:O</td>
<td>1.89</td>
<td>0.73</td>
</tr>
<tr>
<td>2:H:50:ARG:HG3</td>
<td>2:H:50:ARG:HH11</td>
<td>1.52</td>
<td>0.73</td>
</tr>
<tr>
<td>1:E:331:THR:OG1</td>
<td>1:E:334:GLU:HG3</td>
<td>1.89</td>
<td>0.72</td>
</tr>
<tr>
<td>1:G:858:GLY:HA2</td>
<td>1:G:1069:HIS:CE1</td>
<td>2.24</td>
<td>0.72</td>
</tr>
<tr>
<td>1:E:734:LEU:O</td>
<td>1:E:734:LEU:HD12</td>
<td>1.89</td>
<td>0.72</td>
</tr>
<tr>
<td>1:A:344:THR:HB</td>
<td>1:A:345:PRO:HD2</td>
<td>1.71</td>
<td>0.72</td>
</tr>
<tr>
<td>1:C:698:IIE:H</td>
<td>1:C:698:IIE:HD12</td>
<td>1.53</td>
<td>0.72</td>
</tr>
<tr>
<td>2:B:316:VAL:HG12</td>
<td>2:B:337:LEU:HD23</td>
<td>1.71</td>
<td>0.72</td>
</tr>
<tr>
<td>1:C:38:ARG:NH1</td>
<td>1:C:38:ARG:HG3</td>
<td>2.03</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>2:B:261:THR:OG1</td>
<td>2:B:263:ILE:HG13</td>
<td>1.89</td>
<td>0.72</td>
</tr>
<tr>
<td>1:C:772:MET:SD</td>
<td>1:C:880:THR:HC22</td>
<td>2.30</td>
<td>0.72</td>
</tr>
<tr>
<td>1:C:905:PRO:HB2</td>
<td>1:C:1040:TYR:OH</td>
<td>1.90</td>
<td>0.72</td>
</tr>
<tr>
<td>2:B:50:ARG:NH1</td>
<td>2:B:50:ARG:HG3</td>
<td>2.03</td>
<td>0.72</td>
</tr>
<tr>
<td>2:D:263:ILE:HG22</td>
<td>2:D:264:PRO:HD2</td>
<td>1.72</td>
<td>0.72</td>
</tr>
<tr>
<td>2:B:324:ASN:H</td>
<td>2:B:324:ASN:ND2</td>
<td>1.87</td>
<td>0.71</td>
</tr>
<tr>
<td>2:H:299:ASP:OD1</td>
<td>2:H:302:LYS:HD2</td>
<td>1.91</td>
<td>0.71</td>
</tr>
<tr>
<td>1:C:1004:ARG:HD3</td>
<td>1:C:1009[B]:GLU:OE2</td>
<td>1.91</td>
<td>0.71</td>
</tr>
<tr>
<td>2:B:286:MET:HE1</td>
<td>2:B:315:ALA:HB2</td>
<td>1.73</td>
<td>0.71</td>
</tr>
<tr>
<td>1:C:1001:ILE:HD12</td>
<td>1:C:1029:ILE:CG1</td>
<td>2.21</td>
<td>0.71</td>
</tr>
<tr>
<td>2:B:246:ALA:HB1</td>
<td>2:B:248:ASP:CG</td>
<td>2.12</td>
<td>0.70</td>
</tr>
<tr>
<td>1:C:321:LYS:HE3</td>
<td>11:C:1621:HOH:O</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>1:E:967[B]:GLN:NE2</td>
<td>1:E:1054:LEU:HB3</td>
<td>2.06</td>
<td>0.70</td>
</tr>
<tr>
<td>2:F:286:MET:HG2</td>
<td>11:F:1893:HOH:O</td>
<td>1.91</td>
<td>0.70</td>
</tr>
<tr>
<td>2:F:376:GLN:HA</td>
<td>2:F:379:LYS:HZ2</td>
<td>1.56</td>
<td>0.70</td>
</tr>
<tr>
<td>1:C:670:ASP:HB3</td>
<td>1:C:677:ARG:NH2</td>
<td>2.05</td>
<td>0.70</td>
</tr>
<tr>
<td>1:C:671:ARG:HG2</td>
<td>11:C:677:ARG:NH1</td>
<td>2.06</td>
<td>0.70</td>
</tr>
<tr>
<td>2:B:205:ILE:HG13</td>
<td>2:B:355:GLU:HG3</td>
<td>1.74</td>
<td>0.70</td>
</tr>
<tr>
<td>1:E:1:MET:HB2</td>
<td>1:E:224:LYS:NZ</td>
<td>2.07</td>
<td>0.70</td>
</tr>
<tr>
<td>1:C:1:MET:HB2</td>
<td>1:C:224:LYS:NZ</td>
<td>2.05</td>
<td>0.70</td>
</tr>
<tr>
<td>1:E:734:LEU:HD11</td>
<td>1:E:738:PHE:CE2</td>
<td>2.27</td>
<td>0.70</td>
</tr>
<tr>
<td>1:A:930:LYS:HE3</td>
<td>11:A:1156:HOH:O</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>1:I:668:ALA:O</td>
<td>11:I:671:ARG:HB2</td>
<td>1.92</td>
<td>0.69</td>
</tr>
<tr>
<td>1:C:873:SER:O</td>
<td>1:C:877:GLN:HG3</td>
<td>1.93</td>
<td>0.69</td>
</tr>
<tr>
<td>1:A:38:ARG:HG3</td>
<td>1:A:38:ARG:NH1</td>
<td>2.00</td>
<td>0.69</td>
</tr>
<tr>
<td>2:B:190:LEU:HD13</td>
<td>2:B:214:CYS:O</td>
<td>1.91</td>
<td>0.69</td>
</tr>
<tr>
<td>2:H:285:LYS:HG3</td>
<td>2:H:314:PHE:CE1</td>
<td>2.27</td>
<td>0.69</td>
</tr>
<tr>
<td>1:G:726:GLU:HG3</td>
<td>1:G:727:ILE:HE</td>
<td>1.57</td>
<td>0.69</td>
</tr>
<tr>
<td>2:B:324:ASN:O</td>
<td>2:B:342:ARG:HD2</td>
<td>1.91</td>
<td>0.69</td>
</tr>
<tr>
<td>2:B:279:SER:O</td>
<td>2:B:322:PRO:HG3</td>
<td>1.93</td>
<td>0.69</td>
</tr>
<tr>
<td>1:C:1063:ILE:HG12</td>
<td>1:C:1067:GLU:OE2</td>
<td>1.93</td>
<td>0.69</td>
</tr>
<tr>
<td>2:F:254:ALA:O</td>
<td>2:F:257:LYS:HB2</td>
<td>1.92</td>
<td>0.68</td>
</tr>
<tr>
<td>1:G:901:PRO:HD2</td>
<td>6:G:1086:CL:CL</td>
<td>2.30</td>
<td>0.68</td>
</tr>
<tr>
<td>1:E:644:GLY:O</td>
<td>1:E:647:PRO:HD2</td>
<td>1.92</td>
<td>0.68</td>
</tr>
<tr>
<td>1:E:726:GLU:HG3</td>
<td>1:E:727:ILE:H</td>
<td>1.56</td>
<td>0.68</td>
</tr>
<tr>
<td>2:H:334:ASP:OD2</td>
<td>2:H:336:THR:HG23</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>1:A:784:GLN:NE2</td>
<td>1:A:784:GLN:H</td>
<td>1.90</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>1:G:652[A]:ARG:NH1</td>
<td>1:G:667:ASP:HA</td>
<td>2.09</td>
<td>0.68</td>
</tr>
<tr>
<td>2:H:150:PHE:CE1</td>
<td>2:H:152:GLY:HA2</td>
<td>2.27</td>
<td>0.68</td>
</tr>
<tr>
<td>1:A:695:VAL:HG21</td>
<td>1:A:701:ALA:HA</td>
<td>1.76</td>
<td>0.68</td>
</tr>
<tr>
<td>1:C:833:LYS:O</td>
<td>1:C:836:GLU:HB2</td>
<td>1.94</td>
<td>0.68</td>
</tr>
<tr>
<td>1:C:228:CYS:SG</td>
<td>1:C:269:MET:HG2</td>
<td>2.34</td>
<td>0.67</td>
</tr>
<tr>
<td>2:H:133:ILE:HD12</td>
<td>2:H:143:ALA:CB</td>
<td>2.22</td>
<td>0.67</td>
</tr>
<tr>
<td>1:A:1:MET:HG3</td>
<td>1:A:2:PRO:HD2</td>
<td>1.75</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:43:ARG:NH2</td>
<td>1:C:81:GLU:OE2</td>
<td>2.28</td>
<td>0.67</td>
</tr>
<tr>
<td>1:G:967[A]:GLN:HG3</td>
<td>1:G:1054:LEU:HD13</td>
<td>1.76</td>
<td>0.67</td>
</tr>
<tr>
<td>1:A:703:GLU:O</td>
<td>1:A:706:LYS:HB2</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>2:B:322:PRO:CG</td>
<td>2:B:324:ASN:HD21</td>
<td>2.08</td>
<td>0.67</td>
</tr>
<tr>
<td>2:D:227:ASP:O</td>
<td>2:D:230:LYS:HB2</td>
<td>1.95</td>
<td>0.67</td>
</tr>
<tr>
<td>2:B:50:ARG:N</td>
<td>2:B:50:ARG:HD2</td>
<td>1.99</td>
<td>0.67</td>
</tr>
<tr>
<td>2:D:50:ARG:HH11</td>
<td>2:D:50:ARG:HG3</td>
<td>1.58</td>
<td>0.67</td>
</tr>
<tr>
<td>1:E:1021:ARG:HD3</td>
<td>1:E:1025:ASP:OD2</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>1:C:1:MET:HG3</td>
<td>1:C:2:PRO:HD2</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>1:G:716:PRO:HA</td>
<td>1:G:750:VAL:HG22</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>1:A:40:GLU:HG2</td>
<td>1:A:325:LYS:HE2</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>2:B:225:ALA:O</td>
<td>2:B:228:VAL:HB</td>
<td>1.94</td>
<td>0.67</td>
</tr>
<tr>
<td>2:B:228:VAL:HA</td>
<td>2:B:231:MET:CE</td>
<td>2.25</td>
<td>0.67</td>
</tr>
<tr>
<td>1:E:905:PRO:HB2</td>
<td>1:E:1040:TYR:OH</td>
<td>1.95</td>
<td>0.67</td>
</tr>
<tr>
<td>2:B:263:ILE:HG22</td>
<td>2:B:264:PRO:HD2</td>
<td>1.77</td>
<td>0.67</td>
</tr>
<tr>
<td>2:B:322:PRO:HB2</td>
<td>2:B:324:ASN:ND2</td>
<td>2.09</td>
<td>0.67</td>
</tr>
<tr>
<td>2:D:282:LYS:HG3</td>
<td>2:D:320:THR:CG2</td>
<td>2.24</td>
<td>0.67</td>
</tr>
<tr>
<td>2:B:222:GLN:HB2</td>
<td>11:B:3567:HOH:O</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>1:G:172:PHE:HB3</td>
<td>1:G:200:PRO:HG2</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:G:479:VAL:HG23</td>
<td>1:G:483:GLY:HA3</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:G:687:LEU:HD13</td>
<td>1:G:812:GLN:HG2</td>
<td>1.76</td>
<td>0.66</td>
</tr>
<tr>
<td>2:B:228:VAL:HA</td>
<td>2:B:231:MET:HE2</td>
<td>1.77</td>
<td>0.66</td>
</tr>
<tr>
<td>1:C:726:GLU:HG3</td>
<td>1:C:727:ILE:H</td>
<td>1.59</td>
<td>0.66</td>
</tr>
<tr>
<td>1:G:728:VAL:HG13</td>
<td>1:G:733:ASP:HB3</td>
<td>1.76</td>
<td>0.66</td>
</tr>
<tr>
<td>1:G:863:LYS:O</td>
<td>1:G:866:ALA:HB3</td>
<td>1.94</td>
<td>0.66</td>
</tr>
<tr>
<td>2:B:153:LEU:O</td>
<td>2:B:156:MET:HB2</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>2:B:228:VAL:HG11</td>
<td>2:B:258:PHE:CE1</td>
<td>2.30</td>
<td>0.66</td>
</tr>
<tr>
<td>1:C:419:GLU:HG2</td>
<td>11:C:1718:HOH:O</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>2:D:139:ASP:OD2</td>
<td>2:D:142:LEU:HB2</td>
<td>1.96</td>
<td>0.66</td>
</tr>
<tr>
<td>1:E:563:MET:HE3</td>
<td>1:E:635:PRO:HG3</td>
<td>1.77</td>
<td>0.66</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:695:VAL:HG11</td>
<td>1:A:701:ALA:HB2</td>
<td>1.76</td>
<td>0.66</td>
</tr>
<tr>
<td>2:B:286:MET:HG2</td>
<td>11:B:3570:HOH:O</td>
<td>1.94</td>
<td>0.66</td>
</tr>
<tr>
<td>1:G:735:ARG:O</td>
<td>1:G:738:PHE:N</td>
<td>2.29</td>
<td>0.66</td>
</tr>
<tr>
<td>1:E:757:ASP:O</td>
<td>1:E:833:LYS:NZ</td>
<td>2.28</td>
<td>0.66</td>
</tr>
<tr>
<td>1:A:672:ALA:HB3</td>
<td>1:A:844:PRO:HG3</td>
<td>1.78</td>
<td>0.66</td>
</tr>
<tr>
<td>1:C:482:THR:HB</td>
<td>11:C:1747:HOH:O</td>
<td>1.96</td>
<td>0.66</td>
</tr>
<tr>
<td>2:D:50:ARG:NH1</td>
<td>2:D:50:ARG:HG3</td>
<td>2.11</td>
<td>0.66</td>
</tr>
<tr>
<td>1:G:695:VAL:HG11</td>
<td>1:G:701:ALA:CB</td>
<td>2.23</td>
<td>0.66</td>
</tr>
<tr>
<td>1:G:803:GLN:HG3</td>
<td>1:G:807:ASP:OD1</td>
<td>1.96</td>
<td>0.66</td>
</tr>
<tr>
<td>1:E:907:LEU:HD11</td>
<td>8:E:1091:ORN:HD3</td>
<td>1.76</td>
<td>0.66</td>
</tr>
<tr>
<td>1:E:698:ILE:CD1</td>
<td>1:E:698:ILE:H</td>
<td>2.09</td>
<td>0.66</td>
</tr>
<tr>
<td>2:H:40:GLN:OE1</td>
<td>2:H:69:ASP:HB2</td>
<td>1.95</td>
<td>0.66</td>
</tr>
<tr>
<td>1:C:956:ARG:HB3</td>
<td>1:C:1044:LEU:CD2</td>
<td>2.27</td>
<td>0.65</td>
</tr>
<tr>
<td>2:B:228:VAL:HG12</td>
<td>2:B:229:LEU:N</td>
<td>2.10</td>
<td>0.65</td>
</tr>
<tr>
<td>2:F:244:ASP:OD2</td>
<td>2:F:245:PRO:HD2</td>
<td>1.97</td>
<td>0.65</td>
</tr>
<tr>
<td>1:E:43:ARG:NH2</td>
<td>1:E:81:GLU:OE2</td>
<td>2.30</td>
<td>0.65</td>
</tr>
<tr>
<td>1:G:873:SER:O</td>
<td>1:G:877:GLN:HG3</td>
<td>1.97</td>
<td>0.65</td>
</tr>
<tr>
<td>1:G:475[C]:LYS:HD3</td>
<td>1:G:488:PHE:CZ</td>
<td>2.32</td>
<td>0.65</td>
</tr>
<tr>
<td>1:A:509:ARG:NH1</td>
<td>1:A:512[A]:GLU:OE1</td>
<td>2.29</td>
<td>0.65</td>
</tr>
<tr>
<td>1:A:735:ARG:O</td>
<td>1:A:738:PHE:N</td>
<td>2.29</td>
<td>0.65</td>
</tr>
<tr>
<td>1:A:814:GLN:NE2</td>
<td>11:A:1532:HOH:O</td>
<td>2.30</td>
<td>0.65</td>
</tr>
<tr>
<td>1:C:703:GLU:O</td>
<td>1:C:706:LYS:HB2</td>
<td>1.97</td>
<td>0.65</td>
</tr>
<tr>
<td>1:C:671:ARG:NH2</td>
<td>1:C:819:GLU:O</td>
<td>2.30</td>
<td>0.65</td>
</tr>
<tr>
<td>1:E:674:ASP:HB3</td>
<td>1:E:677:ARG:HG3</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>1:A:289:ASN:HB3</td>
<td>1:A:292:ASN:OD1</td>
<td>1.97</td>
<td>0.65</td>
</tr>
<tr>
<td>1:G:24:CYS:HB2</td>
<td>1:G:604:GLU:HB2</td>
<td>1.79</td>
<td>0.65</td>
</tr>
<tr>
<td>1:A:905:PRO:HB2</td>
<td>1:A:1040:TYR:OH</td>
<td>1.96</td>
<td>0.65</td>
</tr>
<tr>
<td>2:H:33:ASN:OD1</td>
<td>2:H:292:GLY:HA2</td>
<td>1.97</td>
<td>0.65</td>
</tr>
<tr>
<td>1:E:726:GLU:OE1</td>
<td>1:E:1020:ARG:NE</td>
<td>2.30</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:475[A]:LYS:HD3</td>
<td>1:G:488:PHE:CZ</td>
<td>2.32</td>
<td>0.64</td>
</tr>
<tr>
<td>2:D:228:VAL:HG22</td>
<td>2:D:231:MET:CE</td>
<td>2.27</td>
<td>0.64</td>
</tr>
<tr>
<td>1:E:3:LYS:HB3</td>
<td>1:E:330:TYR:CE1</td>
<td>2.32</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:954:LYS:O</td>
<td>1:G:957:VAL:HG12</td>
<td>1.96</td>
<td>0.64</td>
</tr>
<tr>
<td>2:H:262:ASP:OD1</td>
<td>2:H:345:LYS:NZ</td>
<td>2.31</td>
<td>0.64</td>
</tr>
<tr>
<td>1:A:696:THR:HB</td>
<td>1:A:700:MET:SD</td>
<td>2.37</td>
<td>0.64</td>
</tr>
<tr>
<td>1:E:703:GLU:O</td>
<td>1:E:706:LYS:HB2</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>2:B:71:GLU:O</td>
<td>2:B:203:ARG:HG3</td>
<td>1.96</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:417:ASP:OD1</td>
<td>1:G:423:LYS:NZ</td>
<td>2.29</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:4:ARG:HD3</td>
<td>1:G:7:ILE:HD12</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>2:H:139:ASP:OD2</td>
<td>2:H:142:LEU:HB2</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>2:H:34:THR:HA</td>
<td>2:H:56:THR:OG1</td>
<td>1.97</td>
<td>0.64</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>1:A:344:THR:HB</td>
<td>1:A:345:PRO:CD</td>
<td>2.27</td>
<td>0.64</td>
</tr>
<tr>
<td>2:B:228:VAL:HG11</td>
<td>2:B:258:PHE:CZ</td>
<td>2.33</td>
<td>0.64</td>
</tr>
<tr>
<td>9:G:1092:NET:H22</td>
<td>9:G:1092:NET:H42</td>
<td>1.79</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:781:HIS:CE1</td>
<td>1:G:789:SER:HB2</td>
<td>2.33</td>
<td>0.64</td>
</tr>
<tr>
<td>1:A:946:LEU:C</td>
<td>1:A:947:LEU:HD12</td>
<td>2.18</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:738:PHE:O</td>
<td>1:G:741:ALA:HB3</td>
<td>1.97</td>
<td>0.64</td>
</tr>
<tr>
<td>2:H:248:ASP:N</td>
<td>2:H:248:ASP:OD2</td>
<td>2.29</td>
<td>0.64</td>
</tr>
<tr>
<td>1:E:1:MET:HB2</td>
<td>1:E:224:LYS:HE3</td>
<td>1.80</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:321:LYS:NZ</td>
<td>1:G:611:ASP:OD1</td>
<td>2.30</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:702:VAL:HG11</td>
<td>1:G:735:ARG:NH2</td>
<td>2.13</td>
<td>0.64</td>
</tr>
<tr>
<td>2:H:286:MET:HE1</td>
<td>2:H:312:HIS:HE1</td>
<td>1.62</td>
<td>0.64</td>
</tr>
<tr>
<td>2:D:158:LEU:O</td>
<td>2:D:161:GLU:HB2</td>
<td>1.98</td>
<td>0.64</td>
</tr>
<tr>
<td>1:A:172:PHE:HB3</td>
<td>1:A:200:PRO:HG2</td>
<td>1.78</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:1:MET:HB2</td>
<td>1:G:224:LYS:CE</td>
<td>2.28</td>
<td>0.64</td>
</tr>
<tr>
<td>1:G:950:ARG:NH1</td>
<td>11:G:1675:HOH:O</td>
<td>2.31</td>
<td>0.64</td>
</tr>
<tr>
<td>1:A:425[B]:ARG:NH2</td>
<td>11:A:1745:HOH:O</td>
<td>2.31</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:687:LEU:CD1</td>
<td>1:C:812:GLN:HG2</td>
<td>2.27</td>
<td>0.63</td>
</tr>
<tr>
<td>1:E:321:LYS:NZ</td>
<td>1:E:611:ASP:OD1</td>
<td>2.30</td>
<td>0.63</td>
</tr>
<tr>
<td>2:D:120:ARG:NH2</td>
<td>11:D:2337:HOH:O</td>
<td>2.29</td>
<td>0.63</td>
</tr>
<tr>
<td>2:D:201:ALA:HB2</td>
<td>2:D:239:SER:CB</td>
<td>2.28</td>
<td>0.63</td>
</tr>
<tr>
<td>2:B:344:ASP:O</td>
<td>2:B:345:LYS:HD3</td>
<td>1.99</td>
<td>0.63</td>
</tr>
<tr>
<td>1:G:981:LEU:HD12</td>
<td>1:G:988:PRO:HG3</td>
<td>1.79</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:693:ALA:HB1</td>
<td>1:C:704:LYS:HG2</td>
<td>1.81</td>
<td>0.63</td>
</tr>
<tr>
<td>1:E:1:MET:N</td>
<td>11:E:1623:HOH:O</td>
<td>2.30</td>
<td>0.63</td>
</tr>
<tr>
<td>2:F:8:VAL:HG22</td>
<td>2:F:14:GLN:HG2</td>
<td>1.80</td>
<td>0.63</td>
</tr>
<tr>
<td>1:E:1:MET:HB2</td>
<td>1:E:224:LYS:CE</td>
<td>2.29</td>
<td>0.63</td>
</tr>
<tr>
<td>1:E:698:ILE:O</td>
<td>1:E:702:VAL:HG23</td>
<td>1.98</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:495:LYS:NZ</td>
<td>11:C:1740:HOH:O</td>
<td>2.27</td>
<td>0.63</td>
</tr>
<tr>
<td>1:C:32:GLN:OE1</td>
<td>1:C:320:ALA:HB3</td>
<td>1.98</td>
<td>0.62</td>
</tr>
<tr>
<td>2:D:286:MET:HB2</td>
<td>2:D:313:GLY:O</td>
<td>1.98</td>
<td>0.62</td>
</tr>
<tr>
<td>2:B:353:HIS:ND1</td>
<td>2:B:355:GLU:OE1</td>
<td>2.30</td>
<td>0.62</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:E:493:LYS:HE2</td>
<td>1:E:517:ARG:HD3</td>
<td>1.82</td>
<td>0.62</td>
</tr>
<tr>
<td>1:E:812:GLN:NE2</td>
<td>11:E:1791:HOH:O</td>
<td>2.27</td>
<td>0.62</td>
</tr>
<tr>
<td>2:D:228:VAL:HA</td>
<td>2:D:231:MET:HE3</td>
<td>1.80</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:65:TYR:OH</td>
<td>1:C:80:LYS:HE2</td>
<td>1.99</td>
<td>0.62</td>
</tr>
<tr>
<td>1:E:858:GLY:HA2</td>
<td>1:E:1069:HIS:CE1</td>
<td>2.33</td>
<td>0.62</td>
</tr>
<tr>
<td>1:G:974:THR:O</td>
<td>1:G:975:HIS:C</td>
<td>2.38</td>
<td>0.62</td>
</tr>
<tr>
<td>1:A:67:GLU:HB3</td>
<td>1:A:68:PRO:HD2</td>
<td>1.82</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:698:ILE:O</td>
<td>1:C:702:VAL:HG23</td>
<td>1.99</td>
<td>0.62</td>
</tr>
<tr>
<td>1:C:702:VAL:HG11</td>
<td>1:C:735:ARG:NH2</td>
<td>2.13</td>
<td>0.62</td>
</tr>
<tr>
<td>2:F:263:ILE:CG2</td>
<td>2:F:264:PRO:HD2</td>
<td>2.30</td>
<td>0.62</td>
</tr>
<tr>
<td>1:G:1037:LYS:HE2</td>
<td>11:G:1756:HOH:O</td>
<td>1.98</td>
<td>0.62</td>
</tr>
<tr>
<td>1:G:762:VAL:HG13</td>
<td>1:G:779:MET:O</td>
<td>2.00</td>
<td>0.62</td>
</tr>
<tr>
<td>1:E:997:GLY:O</td>
<td>1:E:1000:HIS:HB3</td>
<td>2.00</td>
<td>0.62</td>
</tr>
<tr>
<td>1:A:563:MET:CE</td>
<td>1:A:635:PRO:HG3</td>
<td>2.30</td>
<td>0.62</td>
</tr>
<tr>
<td>1:G:488:PHE:O</td>
<td>1:G:491:GLN:N</td>
<td>2.33</td>
<td>0.62</td>
</tr>
<tr>
<td>2:H:286:MET:CE</td>
<td>2:H:315:ALA:HB2</td>
<td>2.29</td>
<td>0.62</td>
</tr>
<tr>
<td>2:H:5:ALA:HB3</td>
<td>2:H:110:ILE:HG13</td>
<td>1.82</td>
<td>0.62</td>
</tr>
<tr>
<td>2:B:245:PRO:HD3</td>
<td>2:B:270:LEU:CD1</td>
<td>2.27</td>
<td>0.62</td>
</tr>
<tr>
<td>2:D:228:VAL:O</td>
<td>2:D:231:MET:HG3</td>
<td>2.00</td>
<td>0.62</td>
</tr>
<tr>
<td>2:D:26:ALA:O</td>
<td>2:D:131:CYS:HA</td>
<td>2.00</td>
<td>0.62</td>
</tr>
<tr>
<td>1:E:784:GLN:H</td>
<td>1:E:784:GLN:NE2</td>
<td>1.98</td>
<td>0.61</td>
</tr>
<tr>
<td>1:G:400:ARG:HD3</td>
<td>11:G:1373:HOH:O</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>1:G:76:LYS:HE3</td>
<td>11:G:1740:HOH:O</td>
<td>1.99</td>
<td>0.61</td>
</tr>
<tr>
<td>2:B:247:PRO:HA</td>
<td>2:B:252:ILE:CD1</td>
<td>2.30</td>
<td>0.61</td>
</tr>
<tr>
<td>1:C:761:GLU:HG2</td>
<td>1:C:781:HIS:CE1</td>
<td>2.34</td>
<td>0.61</td>
</tr>
<tr>
<td>1:G:734:LEU:HD11</td>
<td>1:G:738:PHE:CE2</td>
<td>2.35</td>
<td>0.61</td>
</tr>
<tr>
<td>2:H:144:LEU:O</td>
<td>2:H:144:LEU:HD12</td>
<td>2.00</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:728:VAL:CG1</td>
<td>1:A:733:ASP:HB3</td>
<td>2.29</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:738:PHE:O</td>
<td>1:A:741:ALA:HB3</td>
<td>2.01</td>
<td>0.61</td>
</tr>
<tr>
<td>1:E:967[B]:GLN:HE21</td>
<td>1:E:1054:LEU:CD1</td>
<td>2.13</td>
<td>0.61</td>
</tr>
<tr>
<td>1:G:354:TYR:HB2</td>
<td>1:G:388:GLY:O</td>
<td>2.01</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>1:C:44:VAL:N</td>
<td>1:C:62:ASP:OD2</td>
<td>2.29</td>
<td>0.61</td>
</tr>
<tr>
<td>1:C:698:ILE:N</td>
<td>1:C:698:ILE:HD12</td>
<td>2.14</td>
<td>0.61</td>
</tr>
<tr>
<td>1:C:998:ARG:CB</td>
<td>1:C:999:PRO:HA</td>
<td>2.30</td>
<td>0.61</td>
</tr>
<tr>
<td>1:G:617:TYR:CG</td>
<td>1:G:629:ILE:HD13</td>
<td>2.35</td>
<td>0.61</td>
</tr>
<tr>
<td>1:E:1002:GLN:NE2</td>
<td>1:E:1006:LYS:HE3</td>
<td>2.12</td>
<td>0.61</td>
</tr>
<tr>
<td>1:A:1000:HIS:CD2</td>
<td>1:A:1003:ASP:H</td>
<td>2.19</td>
<td>0.60</td>
</tr>
<tr>
<td>1:E:1000:HIS:CD2</td>
<td>1:E:1003:ASP:H</td>
<td>2.19</td>
<td>0.60</td>
</tr>
<tr>
<td>1:G:804:GLU:O</td>
<td>1:G:808:VAL:HG23</td>
<td>2.00</td>
<td>0.60</td>
</tr>
<tr>
<td>2:H:324:ASN:N</td>
<td>2:H:324:ASN:ND2</td>
<td>2.30</td>
<td>0.60</td>
</tr>
<tr>
<td>1:C:17:PRO:HG3</td>
<td>1:C:917:VAL:HG13</td>
<td>1.83</td>
<td>0.60</td>
</tr>
<tr>
<td>1:E:509:ARG:HH11</td>
<td>1:E:509:ARG:HB3</td>
<td>1.66</td>
<td>0.60</td>
</tr>
<tr>
<td>1:G:946:LEU:CD1</td>
<td>1:G:991:VAL:HG11</td>
<td>2.31</td>
<td>0.60</td>
</tr>
<tr>
<td>2:H:342:ARG:HB3</td>
<td>2:H:344:ASP:OD2</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>2:B:34:THR:HA</td>
<td>2:B:56:THR:OD1</td>
<td>2.02</td>
<td>0.60</td>
</tr>
<tr>
<td>1:C:1020:ARG:O</td>
<td>1:C:1020:ARG:HG3</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>1:C:956:ARG:HB3</td>
<td>1:C:1044:LEU:HD21</td>
<td>1.82</td>
<td>0.60</td>
</tr>
<tr>
<td>1:G:1021:ARG:HG3</td>
<td>1:G:1021:ARG:HH11</td>
<td>1.66</td>
<td>0.60</td>
</tr>
<tr>
<td>1:G:471:ARG:HD2</td>
<td>11:G:1643:HOH:O</td>
<td>2.00</td>
<td>0.60</td>
</tr>
<tr>
<td>1:C:822:VAL:O</td>
<td>1:C:823:ARG:HD3</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>1:E:1000:HIS:HD2</td>
<td>1:E:1003:ASP:H</td>
<td>1.48</td>
<td>0.60</td>
</tr>
<tr>
<td>1:E:527:LYS:HD2</td>
<td>2:F:116:ARG:HD3</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>2:B:246:ALA:HB1</td>
<td>2:B:248:ASP:OD2</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>2:B:237:PRO:HE1</td>
<td>2:B:268:ILE:HG13</td>
<td>1.66</td>
<td>0.60</td>
</tr>
<tr>
<td>2:D:178:THR:HG22</td>
<td>2:D:179:GLY:N</td>
<td>2.15</td>
<td>0.60</td>
</tr>
<tr>
<td>2:B:232:ASN:N</td>
<td>2:B:233:PRO:HD3</td>
<td>2.16</td>
<td>0.60</td>
</tr>
<tr>
<td>2:B:245:PRO:CG</td>
<td>2:B:274:LEU:HD21</td>
<td>2.32</td>
<td>0.60</td>
</tr>
<tr>
<td>1:C:907:LEU:HD11</td>
<td>8:C:1091:ORN:HD3</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>2:H:104:ARG:HG2</td>
<td>2:H:105:HIS:CD2</td>
<td>2.36</td>
<td>0.60</td>
</tr>
<tr>
<td>2:H:367:PRO:HE1</td>
<td>2:H:370:PHE:HE3</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>1:A:948:SER:OG</td>
<td>10:A:1091:U:H5&quot;</td>
<td>2.01</td>
<td>0.60</td>
</tr>
<tr>
<td>1:E:257:THR:HG22</td>
<td>2:F:63:VAL:HG21</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>1:G:728:VAL:HG11</td>
<td>1:G:734:LEU:HA</td>
<td>1.84</td>
<td>0.60</td>
</tr>
<tr>
<td>1:G:772:MET:HE2</td>
<td>1:G:880:THR:HA</td>
<td>1.82</td>
<td>0.60</td>
</tr>
<tr>
<td>1:A:994:VAL:HG23</td>
<td>1:A:1001:ILE:HD11</td>
<td>1.82</td>
<td>0.59</td>
</tr>
<tr>
<td>1:E:344:THR:HB</td>
<td>1:E:345:PRO:HD2</td>
<td>1.83</td>
<td>0.59</td>
</tr>
<tr>
<td>2:F:300:VAL:HG22</td>
<td>2:F:328:THR:O</td>
<td>2.01</td>
<td>0.59</td>
</tr>
</tbody>
</table>

*Continued on next page...*
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:H:50:ARG:HD2</td>
<td>2:H:50:ARG:N</td>
<td>2.17</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:698:ILE:H</td>
<td>1:C:698:ILE:CD1</td>
<td>2.14</td>
<td>0.59</td>
</tr>
<tr>
<td>1:E:1021:ARG:CG</td>
<td>1:E:1021:ARG:HH11</td>
<td>2.15</td>
<td>0.59</td>
</tr>
<tr>
<td>1:G:620:PRO:HB2</td>
<td>1:G:622:THR:HG23</td>
<td>1.83</td>
<td>0.59</td>
</tr>
<tr>
<td>1:A:695:VAL:CG1</td>
<td>1:A:700:MET:HB3</td>
<td>2.30</td>
<td>0.59</td>
</tr>
<tr>
<td>1:E:1073:LYS:HD2</td>
<td>1:E:1073:LYS:N</td>
<td>2.17</td>
<td>0.59</td>
</tr>
<tr>
<td>2:B:78:GLN:HG2</td>
<td>11:B:3896:HOH:O</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:519:GLN:NE2</td>
<td>11:C:1768:HOH:O</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:552:GLU:HB3</td>
<td>11:C:1775:HOH:O</td>
<td>2.01</td>
<td>0.59</td>
</tr>
<tr>
<td>2:D:157:ASP:OD2</td>
<td>2:D:160:LYS:HG2</td>
<td>2.03</td>
<td>0.59</td>
</tr>
<tr>
<td>2:D:282:LYS:HG3</td>
<td>2:D:320:THR:CB</td>
<td>2.32</td>
<td>0.59</td>
</tr>
<tr>
<td>2:F:41:GLU:CB</td>
<td>2:F:358:PRO:HD3</td>
<td>2.33</td>
<td>0.59</td>
</tr>
<tr>
<td>2:B:269:CYS:O</td>
<td>2:B:272:HIS:HB3</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:237:PHE:CE2</td>
<td>1:C:458:ILE:HD13</td>
<td>2.38</td>
<td>0.59</td>
</tr>
<tr>
<td>1:G:905:PRO:HB2</td>
<td>1:G:1040:TYR:OH</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:A:1000:HIS:HD2</td>
<td>1:A:1003:ASP:H</td>
<td>1.49</td>
<td>0.59</td>
</tr>
<tr>
<td>1:A:693:ALA:HB2</td>
<td>1:A:708:ILE:HD11</td>
<td>1.84</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:784:GLN:H</td>
<td>1:C:784:GLN:HE21</td>
<td>1.50</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:784:GLN:HE22</td>
<td>1:C:1043:THR:HB</td>
<td>1.68</td>
<td>0.59</td>
</tr>
<tr>
<td>1:G:734:LEU:HD12</td>
<td>1:G:734:LEU:O</td>
<td>2.02</td>
<td>0.59</td>
</tr>
<tr>
<td>1:A:115:MET:HG2</td>
<td>1:A:118:ALA:O</td>
<td>2.01</td>
<td>0.59</td>
</tr>
<tr>
<td>1:G:597:ILE:HG12</td>
<td>1:G:615:ARG:HB2</td>
<td>1.85</td>
<td>0.59</td>
</tr>
<tr>
<td>1:C:713:VAL:HG23</td>
<td>1:C:755:PHE:HB2</td>
<td>1.84</td>
<td>0.58</td>
</tr>
<tr>
<td>2:D:57:TYR:CD1</td>
<td>2:D:58:PRO:HD2</td>
<td>2.39</td>
<td>0.58</td>
</tr>
<tr>
<td>1:E:904:ASP:O</td>
<td>1:E:906:LEU:N</td>
<td>2.36</td>
<td>0.58</td>
</tr>
<tr>
<td>2:F:345:LYS:HB3</td>
<td>2:F:346:PRO:HD2</td>
<td>1.85</td>
<td>0.58</td>
</tr>
<tr>
<td>1:C:1021:ARG:HH11</td>
<td>1:C:1021:ARG:HG3</td>
<td>1.67</td>
<td>0.58</td>
</tr>
<tr>
<td>1:C:1:MET:N</td>
<td>1:C:224:LYS:HE3</td>
<td>2.17</td>
<td>0.58</td>
</tr>
<tr>
<td>2:B:245:PRO:HG2</td>
<td>2:B:274:LEU:CD2</td>
<td>2.34</td>
<td>0.58</td>
</tr>
<tr>
<td>1:G:698:ILE:O</td>
<td>1:G:702:VAL:HG23</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>1:A:417:ASP:OD1</td>
<td>1:A:423:LYS:NZ</td>
<td>2.30</td>
<td>0.58</td>
</tr>
<tr>
<td>1:C:17:PRO:HG3</td>
<td>1:C:917:VAL:CG1</td>
<td>2.33</td>
<td>0.58</td>
</tr>
<tr>
<td>1:G:1000:HIS:CD2</td>
<td>1:G:1002:GLN:HB3</td>
<td>2.38</td>
<td>0.58</td>
</tr>
<tr>
<td>1:G:676:GLU:O</td>
<td>1:G:680:HIS:ND1</td>
<td>2.36</td>
<td>0.58</td>
</tr>
<tr>
<td>1:G:761:GLU:HG2</td>
<td>1:G:781:HIS:CE1</td>
<td>2.39</td>
<td>0.58</td>
</tr>
</tbody>
</table>
### Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:H:153:LEU:O</td>
<td>2:H:156:MET:HB2</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>2:B:272:HIS:ND1</td>
<td>2:B:349:SER:OG</td>
<td>2.32</td>
<td>0.58</td>
</tr>
<tr>
<td>1:C:646:THR:HB</td>
<td>1:C:647:PRO:HD3</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>1:G:773:VAL:HG21</td>
<td>1:G:817:ALA:CB</td>
<td>2.33</td>
<td>0.58</td>
</tr>
<tr>
<td>1:A:761:GLU:HB3</td>
<td>1:A:781:HIS:ND1</td>
<td>2.19</td>
<td>0.58</td>
</tr>
<tr>
<td>1:E:440:ALA:O</td>
<td>1:E:444:ARG:HG3</td>
<td>2.03</td>
<td>0.58</td>
</tr>
<tr>
<td>1:G:79:GLU:HG2</td>
<td>1:G:111:PHE:CE2</td>
<td>2.38</td>
<td>0.58</td>
</tr>
<tr>
<td>2:B:345:LYS:HB3</td>
<td>2:B:346:PRO:HD2</td>
<td>1.84</td>
<td>0.58</td>
</tr>
<tr>
<td>1:C:1:MET:H3</td>
<td>1:C:224:LYS:HE3</td>
<td>1.69</td>
<td>0.58</td>
</tr>
<tr>
<td>2:D:275:LEU:HD23</td>
<td>2:D:349:SER:OG</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>2:F:186:LYS:HB2</td>
<td>2:F:189:GLU:OE2</td>
<td>2.04</td>
<td>0.58</td>
</tr>
<tr>
<td>1:G:481:ILE:HA</td>
<td>1:G:484:LEU:HD12</td>
<td>1.86</td>
<td>0.58</td>
</tr>
<tr>
<td>1:E:172:PHE:HB3</td>
<td>1:E:200:PRO:HG2</td>
<td>1.85</td>
<td>0.58</td>
</tr>
<tr>
<td>1:E:735:ARG:O</td>
<td>1:E:738:PHE:N</td>
<td>2.37</td>
<td>0.58</td>
</tr>
<tr>
<td>1:G:784:GLN:N</td>
<td>1:G:784:GLN:NE2</td>
<td>2.36</td>
<td>0.58</td>
</tr>
<tr>
<td>1:C:858:GLY:HA2</td>
<td>1:C:1069:HIS:CE1</td>
<td>2.38</td>
<td>0.57</td>
</tr>
<tr>
<td>2:B:46:PRO:HA</td>
<td>2:B:76:HIS:CG</td>
<td>2.39</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:60[B]:MET:HE3</td>
<td>11:C:1146:HOH:O</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:E:947:LEU:HG</td>
<td>1:E:1014:ILE:CG2</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>2:H:201:ALA:HB2</td>
<td>2:H:239:SER:CB</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:814:GLN:HG3</td>
<td>1:C:818:PHE:HE2</td>
<td>1.69</td>
<td>0.57</td>
</tr>
<tr>
<td>1:E:340:THR:O</td>
<td>1:E:343:ARG:HB2</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:G:118:ALA:HA</td>
<td>11:G:1763:HOH:O</td>
<td>2.03</td>
<td>0.57</td>
</tr>
<tr>
<td>1:G:902:GLY:O</td>
<td>1:G:1027:ARG:NH2</td>
<td>2.38</td>
<td>0.57</td>
</tr>
<tr>
<td>1:G:32:GLN:OE1</td>
<td>1:G:320:ALA:HB3</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:G:702:VAL:O</td>
<td>1:G:706:LYS:HD2</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>1:A:1072:ILE:C</td>
<td>1:A:1073:LYS:HD2</td>
<td>2.24</td>
<td>0.57</td>
</tr>
<tr>
<td>1:A:726:GLU:HG3</td>
<td>1:A:727:ILE:H</td>
<td>1.67</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:157:ALA:O</td>
<td>1:C:160:ALA:HB3</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:678:PHE:CE1</td>
<td>1:C:842:VAL:HG23</td>
<td>2.40</td>
<td>0.57</td>
</tr>
<tr>
<td>1:G:168:ILE:CG2</td>
<td>1:G:204:LEU:HD22</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>11:G:1440:HOH:O</td>
<td>2:H:123:ARG:HD2</td>
<td>2.02</td>
<td>0.57</td>
</tr>
<tr>
<td>2:H:361:HIS:ND1</td>
<td>11:H:399:HOH:O</td>
<td>2.30</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:419:GLU:HB3</td>
<td>1:C:423[B]:LYS:NZ</td>
<td>2.18</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:761:GLU:HB3</td>
<td>1:C:781:HIS:ND1</td>
<td>2.19</td>
<td>0.57</td>
</tr>
<tr>
<td>2:H:142:LEU:O</td>
<td>2:H:146:LYS:HG3</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>2:H:369:HIS:O</td>
<td>2:H:372:GLU:HB2</td>
<td>2.05</td>
<td>0.57</td>
</tr>
<tr>
<td>1:C:24:CYS:SG</td>
<td>1:C:576:ILE:HD12</td>
<td>2.44</td>
<td>0.57</td>
</tr>
<tr>
<td>2:D:225:ALA:HB2</td>
<td>2:D:254:ALA:HB1</td>
<td>1.87</td>
<td>0.57</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:E:1006:LYS:HG3</td>
<td>1:E:1006:LYS:O</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:G:702:VAL:HG13</td>
<td>1:G:731:GLU:HG3</td>
<td>1.86</td>
<td>0.57</td>
</tr>
<tr>
<td>1:G:105:GLN:HA</td>
<td>1:G:105:GLN:NE2</td>
<td>2.20</td>
<td>0.57</td>
</tr>
<tr>
<td>1:G:965:LEU:HG</td>
<td>1:G:971:LEU:HD11</td>
<td>1.87</td>
<td>0.57</td>
</tr>
<tr>
<td>1:A:936:ASN:HB2</td>
<td>11:A:1109:HOH:O</td>
<td>2.04</td>
<td>0.57</td>
</tr>
<tr>
<td>1:E:947:LEU:N</td>
<td>1:E:947:LEU:HD12</td>
<td>2.20</td>
<td>0.57</td>
</tr>
<tr>
<td>1:G:695:VAL:CG1</td>
<td>1:G:700:MET:HB3</td>
<td>2.34</td>
<td>0.57</td>
</tr>
<tr>
<td>1:E:158:VAL:HG11</td>
<td>1:E:206:ILE:HB</td>
<td>1.86</td>
<td>0.56</td>
</tr>
<tr>
<td>2:H:286:MET:HE2</td>
<td>2:H:315:ALA:HB2</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>2:B:324:ASN:N</td>
<td>2:B:324:ASN:ND2</td>
<td>2.45</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:1001:ILE:O</td>
<td>1:A:1005:ILE:HG13</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>2:B:150:PHE:CE1</td>
<td>2:B:152:GLY:HA2</td>
<td>2.40</td>
<td>0.56</td>
</tr>
<tr>
<td>1:C:814:GLN:HG3</td>
<td>1:C:818:PHE:CE2</td>
<td>2.39</td>
<td>0.56</td>
</tr>
<tr>
<td>1:C:51:PRO:HG3</td>
<td>1:C:918:MET:HB2</td>
<td>1.86</td>
<td>0.56</td>
</tr>
<tr>
<td>2:B:237:PHE:CE1</td>
<td>2:B:268:ILE:HG13</td>
<td>2.41</td>
<td>0.56</td>
</tr>
<tr>
<td>2:B:322:PRO:HB2</td>
<td>2:B:324:ASN:HD21</td>
<td>1.69</td>
<td>0.56</td>
</tr>
<tr>
<td>2:D:201:ALA:HA</td>
<td>2:D:240:ASN:OD1</td>
<td>2.05</td>
<td>0.56</td>
</tr>
<tr>
<td>1:E:417:ASP:OD2</td>
<td>1:E:418:PRO:HD2</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:730:ASP:H</td>
<td>1:A:733:ASP:HB2</td>
<td>1.71</td>
<td>0.56</td>
</tr>
<tr>
<td>1:E:503:ALA:HB1</td>
<td>1:E:508:VAL:O</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>2:H:342:ARG:NH2</td>
<td>2:H:344:ASP:OD1</td>
<td>2.33</td>
<td>0.56</td>
</tr>
<tr>
<td>1:E:950:ARG:HD3</td>
<td>11:E:1593:HOH:O</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>2:F:290:HIS:HB2</td>
<td>2:F:312:HIS:CD2</td>
<td>2.40</td>
<td>0.56</td>
</tr>
<tr>
<td>1:C:423:LYS:HE2</td>
<td>11:C:1420:HOH:O</td>
<td>2.04</td>
<td>0.56</td>
</tr>
<tr>
<td>1:E:142:GLU:OE2</td>
<td>1:E:294:ARG:NH2</td>
<td>2.38</td>
<td>0.56</td>
</tr>
<tr>
<td>2:H:133:ILE:HD11</td>
<td>2:H:143:ALA:HA</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>2:F:201:ALA:HB2</td>
<td>2:F:239:SER:HB2</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:G:695:VAL:HG11</td>
<td>1:G:701:ALA:N</td>
<td>2.21</td>
<td>0.56</td>
</tr>
<tr>
<td>1:A:698:ILE:O</td>
<td>1:A:702:VAL:HG23</td>
<td>2.06</td>
<td>0.56</td>
</tr>
<tr>
<td>1:G:698:ILE:N</td>
<td>1:G:698:ILE:HD12</td>
<td>2.20</td>
<td>0.56</td>
</tr>
<tr>
<td>1:E:1057:ASP:HB3</td>
<td>1:E:1060:GLU:HB2</td>
<td>1.87</td>
<td>0.56</td>
</tr>
<tr>
<td>1:G:703:GLU:HA</td>
<td>1:G:706:LYS:HD3</td>
<td>1.88</td>
<td>0.56</td>
</tr>
<tr>
<td>1:C:695:VAL:HG21</td>
<td>1:C:701:ALA:CA</td>
<td>2.28</td>
<td>0.55</td>
</tr>
<tr>
<td>2:D:345:LYS:HB3</td>
<td>2:D:346:PRO:CD</td>
<td>2.35</td>
<td>0.55</td>
</tr>
<tr>
<td>2:D:48:TYR:HA</td>
<td>2:D:51:GLN:HE21</td>
<td>1.70</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:995:HIS:ND1</td>
<td>11:E:1847:HOH:O</td>
<td>2.33</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:571:ARG:HD3</td>
<td>1:C:571:ARG:N</td>
<td>2.21</td>
<td>0.55</td>
</tr>
</tbody>
</table>
### Table 1: Interatomic Distances and Clash Overlaps

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:695:VAL:HG21</td>
<td>1:G:701:ALA:HA</td>
<td>1.88</td>
<td>0.55</td>
</tr>
<tr>
<td>1:A:40:GLU:HG3</td>
<td>1:A:325:LYS:HE2</td>
<td>1.88</td>
<td>0.55</td>
</tr>
<tr>
<td>2:D:201:ALA:HB2</td>
<td>2:D:239:SER:HB2</td>
<td>1.77</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:967[B]:GLN:NE2</td>
<td>1:E:1054:LEU:HD13</td>
<td>2.17</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:703:GLU:HA</td>
<td>1:E:706:LYS:HD3</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:494:ARG:HG2</td>
<td>1:E:547:TYR:HB2</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>1:G:874:LEU:HB3</td>
<td>1:G:879:VAL:O</td>
<td>2.05</td>
<td>0.55</td>
</tr>
<tr>
<td>2:B:298:LYS:HE2</td>
<td>2:B:303:ASN:OD1</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:956:ARG:HB3</td>
<td>1:E:1044:LEU:CD2</td>
<td>2.36</td>
<td>0.55</td>
</tr>
<tr>
<td>1:G:950:ARG:HG2</td>
<td>1:G:1016:THR:OG1</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>2:B:168:TYR:O</td>
<td>2:B:218:ILE:N</td>
<td>2.29</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:423[B]:LYS:NZ</td>
<td>11:C:1420:HOH:O</td>
<td>2.38</td>
<td>0.55</td>
</tr>
<tr>
<td>1:G:274:GLU:HB2</td>
<td>11:G:1205:HOH:O</td>
<td>2.06</td>
<td>0.55</td>
</tr>
<tr>
<td>1:G:802:SER:O</td>
<td>1:G:806:GLN:HG3</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>1:A:130[A]:ARG:NE</td>
<td>11:A:1197:HOH:O</td>
<td>2.38</td>
<td>0.55</td>
</tr>
<tr>
<td>1:G:645[A]:GLN:HG3</td>
<td>1:G:649:LYS:HE3</td>
<td>1.89</td>
<td>0.55</td>
</tr>
<tr>
<td>2:B:263:ILE:CG2</td>
<td>2:B:264:PRO:HD2</td>
<td>2.36</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:1:MET:HB2</td>
<td>1:C:224:LYS:HZ1</td>
<td>1.72</td>
<td>0.55</td>
</tr>
<tr>
<td>1:C:509:ARG:HD3</td>
<td>11:C:1763:HOH:O</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>2:B:172:GLN:O</td>
<td>2:B:207:ARG:HA</td>
<td>2.07</td>
<td>0.55</td>
</tr>
<tr>
<td>1:E:3:LYS:NZ</td>
<td>11:E:1094:HOH:O</td>
<td>2.39</td>
<td>0.55</td>
</tr>
<tr>
<td>1:A:336:MET:HB3</td>
<td>1:A:342:GLY:HA2</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:64:THR:O</td>
<td>1:C:1065:VAL:HG23</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:446:GLY:O</td>
<td>1:E:447:LEU:HD23</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>1:G:213:TRP:CZ3</td>
<td>1:G:296:ILE:HD12</td>
<td>2.42</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:321:LYS:NZ</td>
<td>1:C:611:ASP:OD1</td>
<td>2.40</td>
<td>0.54</td>
</tr>
<tr>
<td>2:H:186:LYS:O</td>
<td>2:H:189:GLU:HB2</td>
<td>2.06</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:701:ALA:O</td>
<td>1:A:705:ALA:N</td>
<td>2.30</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:588:ALA:HB2</td>
<td>1:A:863:LYS:HG2</td>
<td>1.90</td>
<td>0.54</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:C:46:LEU:HD12</td>
<td>1:C:46:LEU:C</td>
<td>2.28</td>
<td>0.54</td>
</tr>
<tr>
<td>2:D:205:ILE:HG13</td>
<td>2:D:355:GLU:HG3</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>1:E:1:MET:N</td>
<td>1:E:224:LYS:HE3</td>
<td>2.21</td>
<td>0.54</td>
</tr>
<tr>
<td>1:G:788:HIS:ND1</td>
<td>1:G:911:MET:HB2</td>
<td>2.23</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:646:THR:HB</td>
<td>1:A:647:PRO:HD3</td>
<td>1.88</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:661:VAL:HB</td>
<td>11:C:1801:HOH:O</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:E:695:VAL:HG13</td>
<td>1:E:700:MET:HB3</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>2:H:334:ASP:CG</td>
<td>2:H:336:THR:HG23</td>
<td>2.28</td>
<td>0.54</td>
</tr>
<tr>
<td>2:B:322:PRO:CB</td>
<td>2:B:324:ASN:HD21</td>
<td>2.21</td>
<td>0.54</td>
</tr>
<tr>
<td>2:F:342:ARG:HB3</td>
<td>2:F:345:LYS:H</td>
<td>1.71</td>
<td>0.54</td>
</tr>
<tr>
<td>1:A:833:LYS:O</td>
<td>1:A:836:GLU:HB2</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>2:D:324:ASN:N</td>
<td>2:D:324:ASN:ND2</td>
<td>2.41</td>
<td>0.54</td>
</tr>
<tr>
<td>2:F:228:VAL:O</td>
<td>2:F:231:MET:HG3</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:G:563:MET:HE3</td>
<td>1:G:635:PRO:HG3</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>2:B:201:ALA:HB2</td>
<td>2:B:239:SER:CB</td>
<td>2.38</td>
<td>0.54</td>
</tr>
<tr>
<td>2:B:355:GLU:OE2</td>
<td>2:B:355:GLU:N</td>
<td>2.30</td>
<td>0.54</td>
</tr>
<tr>
<td>2:B:364:ALA:N</td>
<td>2:B:365:PRO:HD2</td>
<td>2.23</td>
<td>0.54</td>
</tr>
<tr>
<td>1:E:670:ASP:HB2</td>
<td>11:E:1785:HOH:O</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>2:F:50:ARG:N</td>
<td>2:F:50:ARG:HD2</td>
<td>2.21</td>
<td>0.54</td>
</tr>
<tr>
<td>1:G:991:VAL:HG21</td>
<td>1:G:1001:ILE:HG22</td>
<td>1.89</td>
<td>0.54</td>
</tr>
<tr>
<td>2:H:257:LYS:O</td>
<td>2:H:261:THR:HG23</td>
<td>2.06</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:905:PRO:HB2</td>
<td>1:C:1040:TYR:HH</td>
<td>1.70</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:762:VAL:HG13</td>
<td>1:C:779:MET:O</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>2:D:10:GLU:OE2</td>
<td>2:D:129:ASN:N</td>
<td>2.29</td>
<td>0.54</td>
</tr>
<tr>
<td>1:E:185:ARG:NH2</td>
<td>11:E:1238:HOH:O</td>
<td>2.40</td>
<td>0.54</td>
</tr>
<tr>
<td>1:G:967[B]:GLN:HG2</td>
<td>1:G:1054:LEU:HD13</td>
<td>1.90</td>
<td>0.54</td>
</tr>
<tr>
<td>2:H:132:ILE:HG22</td>
<td>2:H:133:ILE:N</td>
<td>2.23</td>
<td>0.54</td>
</tr>
<tr>
<td>1:C:43:ARG:HA</td>
<td>1:C:62:ASP:OD2</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>2:F:50:ARG:HG2</td>
<td>2:F:158:LEU:HD22</td>
<td>1.90</td>
<td>0.54</td>
</tr>
<tr>
<td>2:H:69:ASP:HA</td>
<td>11:H:500:HOH:O</td>
<td>2.07</td>
<td>0.54</td>
</tr>
<tr>
<td>2:D:277:LEU:HD23</td>
<td>2:D:281:ALA:O</td>
<td>2.08</td>
<td>0.54</td>
</tr>
<tr>
<td>1:E:901:PRO:HD2</td>
<td>6:E:1086:CL:CL</td>
<td>2.45</td>
<td>0.54</td>
</tr>
<tr>
<td>1:E:125:LYS:NZ</td>
<td>11:E:1188:HOH:O</td>
<td>2.41</td>
<td>0.54</td>
</tr>
<tr>
<td>1:E:144:ALA:HB1</td>
<td>1:E:208:GLU:CG</td>
<td>2.38</td>
<td>0.54</td>
</tr>
<tr>
<td>1:G:1067:GLU:O</td>
<td>1:G:1068:MET:C</td>
<td>2.46</td>
<td>0.53</td>
</tr>
<tr>
<td>2:B:6:LEU:HD12</td>
<td>2:B:7:LEU:N</td>
<td>2.23</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:827:ASN:HB3</td>
<td>1:C:843:ASN:HB2</td>
<td>1.90</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>2:D:262:ASP:HB2</td>
<td>11:D:2882:HOH:O</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>2:D:272:HIS:HA</td>
<td>2:D:349:SER:HB2</td>
<td>1.88</td>
<td>0.53</td>
</tr>
<tr>
<td>1:E:1:MET:HZ2</td>
<td>1:E:224:LYS:HZ2</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>1:G:698:ILE:HD12</td>
<td>1:G:698:ILE:H</td>
<td>1.73</td>
<td>0.53</td>
</tr>
<tr>
<td>2:H:365:ALA:CB</td>
<td>2:H:365:PRO:HD2</td>
<td>2.28</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:941:LYS:NZ</td>
<td>1:A:1056:ALA:O</td>
<td>2.33</td>
<td>0.53</td>
</tr>
<tr>
<td>1:E:1051:ALA:O</td>
<td>1:E:1054:LEU:HB2</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:G:722:THR:O</td>
<td>1:G:626:VAL:HG23</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:482:THR:HB</td>
<td>11:E:1442:HOH:O</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:E:734:LEU:C</td>
<td>1:E:734:LEU:HD12</td>
<td>2.28</td>
<td>0.53</td>
</tr>
<tr>
<td>1:G:139:ILE:HD11</td>
<td>1:G:141:LEU:HD12</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:709:GLY:O</td>
<td>1:754:HIS:ND1</td>
<td>2.41</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:1019:GLY:O</td>
<td>1:C:1023:ILE:HD12</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:171:SER:HB2</td>
<td>1:C:203:GLU:HB3</td>
<td>1.90</td>
<td>0.53</td>
</tr>
<tr>
<td>1:E:675:ARG:HD3</td>
<td>1:E:675:ARG:H</td>
<td>1.72</td>
<td>0.53</td>
</tr>
<tr>
<td>1:E:954:LYS:O</td>
<td>1:E:980:VAL:HG11</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>1:G:710:TYR:HB3</td>
<td>11:G:729:TYR:O</td>
<td>2.07</td>
<td>0.53</td>
</tr>
<tr>
<td>2:H:236:ILE:CD2</td>
<td>2:H:263:ILE:CG2</td>
<td>2.38</td>
<td>0.53</td>
</tr>
<tr>
<td>2:H:45:ASP:HB3</td>
<td>2:H:48:TYR:HD2</td>
<td>1.74</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:70:HIS:O</td>
<td>1:A:74:VAL:HG23</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>2:B:322:PRO:HD2</td>
<td>2:B:324:ASN:ND2</td>
<td>2.21</td>
<td>0.53</td>
</tr>
<tr>
<td>2:F:41:GLU:HB2</td>
<td>2:F:358:PRO:HD3</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>1:G:423:LYS:HA</td>
<td>1:G:426[B]:ARG:NH2</td>
<td>2.24</td>
<td>0.53</td>
</tr>
<tr>
<td>1:G:946:LEU:HD11</td>
<td>1:G:991:VAL:HG11</td>
<td>1.89</td>
<td>0.53</td>
</tr>
<tr>
<td>2:H:8:VAL:HG12</td>
<td>2:H:9:LEU:N</td>
<td>2.24</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:979:ILE:O</td>
<td>1:A:983:GLU:HG3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>2:B:49:SER:O</td>
<td>2:B:50:ARG:HB2</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:1051:ALA:O</td>
<td>1:C:1054:LEU:HB2</td>
<td>2.07</td>
<td>0.53</td>
</tr>
<tr>
<td>1:G:272:LEU:HD21</td>
<td>1:G:282:SER:HB2</td>
<td>1.89</td>
<td>0.53</td>
</tr>
<tr>
<td>2:H:279:SER:OG</td>
<td>2:H:342:ARG:NH1</td>
<td>2.30</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:289:ASN:OD1</td>
<td>1:A:290:PRO:HD2</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:A:3:LYS:OD1</td>
<td>1:A:42:TYR:OH</td>
<td>2.08</td>
<td>0.53</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:665:SER:O</td>
<td>1:A:669:ILE:HG13</td>
<td>2.09</td>
<td>0.53</td>
</tr>
<tr>
<td>2:B:367:PHE:O</td>
<td>2:B:370:PHE:HB3</td>
<td>2.08</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:1:MET:CG</td>
<td>1:C:2:PRO:HD2</td>
<td>2.39</td>
<td>0.53</td>
</tr>
<tr>
<td>1:C:728:VAL:HG11</td>
<td>1:C:734:LEU:HA</td>
<td>1.91</td>
<td>0.53</td>
</tr>
<tr>
<td>2:D:188:ASP:N</td>
<td>2:D:188:ASP:OD2</td>
<td>2.31</td>
<td>0.53</td>
</tr>
<tr>
<td>1:G:100:LEU:HD12</td>
<td>1:G:100:LEU:N</td>
<td>2.24</td>
<td>0.53</td>
</tr>
<tr>
<td>2:B:247:PRO:HA</td>
<td>2:B:252:ILE:HD12</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>2:B:50:ARG:HH11</td>
<td>2:B:50:ARG:CG</td>
<td>2.18</td>
<td>0.52</td>
</tr>
<tr>
<td>1:G:751:LEU:O</td>
<td>1:G:752:LEU:HD12</td>
<td>2.08</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:695:VAL:HG12</td>
<td>1:A:696:THR:N</td>
<td>2.22</td>
<td>0.52</td>
</tr>
<tr>
<td>1:E:956:ARG:HB3</td>
<td>1:E:1044:LEU:HD21</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>2:H:48:TYR:O</td>
<td>2:H:51:GLN:HB2</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:992:ASN:ND2</td>
<td>1:E:975:HIS:NE2</td>
<td>2.57</td>
<td>0.52</td>
</tr>
<tr>
<td>2:F:41:GLU:HB3</td>
<td>2:F:358:PRO:HD3</td>
<td>1.92</td>
<td>0.52</td>
</tr>
<tr>
<td>1:G:237:PHE:HB3</td>
<td>1:G:248:ILE:HB</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>1:G:17:PRO:HG3</td>
<td>1:G:917:VAL:HG13</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>1:E:278:GLU:HG2</td>
<td>11:E:1310:HOH:O</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>1:E:726:GLU:HG3</td>
<td>1:E:727:ILE:N</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>1:G:178:GLY:HA3</td>
<td>1:G:198:LEU:HD23</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>1:G:1:MET:HB2</td>
<td>1:G:224:LYS:HE3</td>
<td>1.90</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:28:TYR:CZ</td>
<td>1:A:313:LYS:HE3</td>
<td>2.43</td>
<td>0.52</td>
</tr>
<tr>
<td>2:B:350:PHE:HB2</td>
<td>2:B:366:LEU:CD2</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:419:GLU:CB</td>
<td>1:C:423:LYS:NZ</td>
<td>2.73</td>
<td>0.52</td>
</tr>
<tr>
<td>2:F:193:HIS:O</td>
<td>2:F:234:ASP:HB2</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>1:G:384:VAL:HG22</td>
<td>1:G:385:MET:N</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>2:H:176:THR:O</td>
<td>2:H:180:GLY:N</td>
<td>2.37</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:685:LEU:O</td>
<td>1:A:686:LYS:HB2</td>
<td>2.09</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:822:VAL:O</td>
<td>1:A:823:ARG:HD3</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:420:ALA:HA</td>
<td>1:C:423:LYS:HD2</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:542:TYR:CD1</td>
<td>1:C:616:LEU:HD23</td>
<td>2.45</td>
<td>0.52</td>
</tr>
<tr>
<td>1:G:1035:GLN:NE2</td>
<td>11:G:1544:HOH:O</td>
<td>2.43</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:954:LYS:O</td>
<td>1:A:957:VAL:HG12</td>
<td>2.10</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:3:LYS:HB3</td>
<td>1:C:330:TYR:CZ</td>
<td>2.44</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:671:ARG:HG3</td>
<td>1:A:677:ARG:NH1</td>
<td>2.24</td>
<td>0.52</td>
</tr>
<tr>
<td>1:C:998:ARG:HB3</td>
<td>1:C:999:PRO:HA</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>2:D:228:VAL:HG22</td>
<td>2:D:231:MET:HE1</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>2:D:245:PRO:HD3</td>
<td>2:D:270:LEU:CD1</td>
<td>2.33</td>
<td>0.52</td>
</tr>
<tr>
<td>2:D:282:LYS:HG3</td>
<td>2:D:320:THR:HB</td>
<td>1.92</td>
<td>0.52</td>
</tr>
<tr>
<td>1:G:708:ILE:HG21</td>
<td>1:G:712:LEU:HD11</td>
<td>1.92</td>
<td>0.52</td>
</tr>
<tr>
<td>2:H:54:THR:HG23</td>
<td>2:H:81:VAL:HG12</td>
<td>1.90</td>
<td>0.52</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:B:316:VAL:CG1</td>
<td>2:B:337:LEU:HD23</td>
<td>2.38</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:370:ALA:HB2</td>
<td>1:A:903:VAL:CG2</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:891:LYS:HG2</td>
<td>1:A:892:GLU:N</td>
<td>2.25</td>
<td>0.52</td>
</tr>
<tr>
<td>2:B:50:ARG:HG2</td>
<td>2:B:158:LEU:CD2</td>
<td>2.40</td>
<td>0.52</td>
</tr>
<tr>
<td>2:D:46:PRO:HA</td>
<td>2:D:76:HIS:CG</td>
<td>2.45</td>
<td>0.52</td>
</tr>
<tr>
<td>1:E:517:ARG:HG2</td>
<td>1:E:522:LEU:HD23</td>
<td>1.91</td>
<td>0.52</td>
</tr>
<tr>
<td>1:A:223:ASP:OD1</td>
<td>1:A:227:ASN:HB2</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>2:D:362:ASP:OD2</td>
<td>2:D:362:ASP:N</td>
<td>2.41</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:10:ILE:HD13</td>
<td>1:G:37:LEU:HD13</td>
<td>1.90</td>
<td>0.51</td>
</tr>
<tr>
<td>2:B:340:ILE:O</td>
<td>2:B:348:PHE:HB2</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:174:MET:HB2</td>
<td>5:C:1078:PO4:O1</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>2:D:196:ALA:HA</td>
<td>2:D:237:PHE:O</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:E:873:SER:O</td>
<td>1:E:877:GLN:HG3</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:701:ALA:O</td>
<td>1:G:705:ALA:N</td>
<td>2.33</td>
<td>0.51</td>
</tr>
<tr>
<td>2:H:160:LYS:HE3</td>
<td>2:H:161:GLU:OE2</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:663:GLY:O</td>
<td>1:A:664:THR:C</td>
<td>2.48</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:426:ARG:C</td>
<td>1:C:426:ARG:HD3</td>
<td>2.30</td>
<td>0.51</td>
</tr>
<tr>
<td>1:E:967[B]:GLN:NE2</td>
<td>1:E:1054:LEU:CB</td>
<td>2.74</td>
<td>0.51</td>
</tr>
<tr>
<td>1:E:998:ARG:CB</td>
<td>1:E:999:PRO:HA</td>
<td>2.40</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:784:GLN:HB3</td>
<td>11:G:1480:HOH:O</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>2:H:286:MET:HE1</td>
<td>2:H:312:HIS:CE1</td>
<td>2.44</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:224:LYS:HE2</td>
<td>1:A:329:GLY:O</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:450:ASP:N</td>
<td>11:A:1435:HOH:O</td>
<td>2.27</td>
<td>0.51</td>
</tr>
<tr>
<td>2:B:83:ARG:HG3</td>
<td>2:B:83:ARG:HH11</td>
<td>1.75</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:225:ASN:ND2</td>
<td>11:G:1296:HOH:O</td>
<td>2.42</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:762:VAL:HG12</td>
<td>1:G:763:ASP:N</td>
<td>2.25</td>
<td>0.51</td>
</tr>
<tr>
<td>2:H:317:ASP:OD2</td>
<td>2:H:319:ALA:HB3</td>
<td>2.09</td>
<td>0.51</td>
</tr>
<tr>
<td>2:H:50:ARG:NH1</td>
<td>2:H:50:ARG:HG3</td>
<td>2.16</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:344:THR:HB</td>
<td>1:C:335:PRO:HD2</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:998:ARG:HA</td>
<td>1:C:999:PRO:C</td>
<td>2.28</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:784:GLN:H</td>
<td>1:C:784:GLN:NE2</td>
<td>2.08</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:7:ILE:HG23</td>
<td>1:C:84:ASP:HB2</td>
<td>1.91</td>
<td>0.51</td>
</tr>
<tr>
<td>1:E:500:ALA:O</td>
<td>1:E:504:LYS:HG3</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:526:TYR:CE1</td>
<td>1:G:545:SER:HB3</td>
<td>2.46</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:228:CYS:HB2</td>
<td>1:A:273:ARG:NH2</td>
<td>2.26</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:167:ILE:HD12</td>
<td>1:C:167:ILE:N</td>
<td>2.25</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:973:ALA:O</td>
<td>1:C:991:VAL:HG12</td>
<td>2.10</td>
<td>0.51</td>
</tr>
</tbody>
</table>
Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:E:361:ARG:CZ</td>
<td>1:E:571:ARG:HG2</td>
<td>2.41</td>
<td>0.51</td>
</tr>
<tr>
<td>1:E:682:VAL:HG13</td>
<td>1:E:687:LEU:HB2</td>
<td>1.90</td>
<td>0.51</td>
</tr>
<tr>
<td>1:E:796:LEU:C</td>
<td>1:E:796:LEU:HD23</td>
<td>2.31</td>
<td>0.51</td>
</tr>
<tr>
<td>2:F:255:ILE:HA</td>
<td>2:F:258:PHE:HD2</td>
<td>1.76</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:1000:HIS:CD2</td>
<td>1:G:1003:ASP:H</td>
<td>2.28</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:773:VAL:HG21</td>
<td>1:G:817:ALA:HB3</td>
<td>1.91</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:69:ILE:O</td>
<td>1:C:69:ILE:HG22</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:695:VAL:CG2</td>
<td>1:G:752:LEU:HD22</td>
<td>2.40</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:730:ASP:OD2</td>
<td>1:A:733:ASP:HB2</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:948:SER:OD2</td>
<td>1:A:1015:ASN:HA</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>2:B:248:ASP:OD2</td>
<td>2:B:248:ASP:N</td>
<td>2.41</td>
<td>0.51</td>
</tr>
<tr>
<td>1:C:385:MET:HB2</td>
<td>1:C:603:PRO:HG3</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>2:D:277:LEU:HD21</td>
<td>2:D:283:THR:HG23</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>1:E:258:ASP:O</td>
<td>1:E:262:GLN:HG2</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:E:526:TYR:CE1</td>
<td>1:E:545:SER:HB3</td>
<td>2.46</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:1027[B]:ARG:CZ</td>
<td>1:A:1027[B]:ARG:HB3</td>
<td>2.40</td>
<td>0.51</td>
</tr>
<tr>
<td>1:A:772[A]:MET:SD</td>
<td>1:A:880:THR:HG22</td>
<td>2.51</td>
<td>0.51</td>
</tr>
<tr>
<td>2:D:174:SER:O</td>
<td>2:D:182:PRO:HD3</td>
<td>2.11</td>
<td>0.51</td>
</tr>
<tr>
<td>1:E:973:ALA:O</td>
<td>1:E:991:VAL:HG12</td>
<td>2.10</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:143:THR:HA</td>
<td>1:G:296:ILE:HG23</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:146:SER:HB2</td>
<td>1:G:205:LEU:HD11</td>
<td>1.93</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:479:VAL:HG21</td>
<td>1:G:483:GLY:HA3</td>
<td>1.92</td>
<td>0.51</td>
</tr>
<tr>
<td>1:G:891:LYS:NZ</td>
<td>11:G:1678:HOH:O</td>
<td>2.43</td>
<td>0.51</td>
</tr>
<tr>
<td>2:B:194:VAL:HB</td>
<td>2:B:216:LEU:CD2</td>
<td>2.38</td>
<td>0.50</td>
</tr>
<tr>
<td>2:B:72:SER:HB2</td>
<td>11:B:3543:HOH:O</td>
<td>2.10</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:119:THR:HG23</td>
<td>11:G:1763:HOH:O</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:43:ARG:NH2</td>
<td>1:G:81:GLU:OE2</td>
<td>2.39</td>
<td>0.50</td>
</tr>
<tr>
<td>2:H:244:ASP:OD2</td>
<td>2:H:245:PRO:HD2</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:1048:PHE:O</td>
<td>1:C:1052:MET:HG3</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:770:GLY:HA2</td>
<td>1:G:823:ARG:NH1</td>
<td>2.26</td>
<td>0.50</td>
</tr>
<tr>
<td>2:H:141:ALA:O</td>
<td>2:H:145:GLU:N</td>
<td>2.39</td>
<td>0.50</td>
</tr>
<tr>
<td>2:H:9:LEU:O</td>
<td>2:H:10:GLU:C</td>
<td>2.49</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:951:GLU:OE1</td>
<td>1:A:951:GLU:HA</td>
<td>2.06</td>
<td>0.50</td>
</tr>
<tr>
<td>2:D:116:ARG:O</td>
<td>2:D:120:ARG:HG3</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:1:MET:O</td>
<td>1:G:334:GLU:OE1</td>
<td>2.29</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:333:ASP:N</td>
<td>1:A:333:ASP:OD1</td>
<td>2.44</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:B:245:PRO:HG2</td>
<td>2:B:274:LEU:HD21</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>2:D:246:ALA:HB1</td>
<td>2:D:248:ASP:HB2</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:577:GLU:O</td>
<td>1:G:580:TYR:HB3</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>2:H:49:SER:O</td>
<td>2:H:50:ARG:HB2</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:715:ARG:NH2</td>
<td>7:A:1088:ADP:O1A</td>
<td>2.44</td>
<td>0.50</td>
</tr>
<tr>
<td>2:B:318:GLU:HA</td>
<td>2:B:321:LEU:HD13</td>
<td>1.91</td>
<td>0.50</td>
</tr>
<tr>
<td>2:B:6:LEU:HD11</td>
<td>2:B:8:VAL:CG2</td>
<td>2.41</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:951:GLU:HA</td>
<td>1:C:954:LYS:HD2</td>
<td>1.93</td>
<td>0.50</td>
</tr>
<tr>
<td>2:D:316:VAL:CG1</td>
<td>2:D:337:LEU:HD23</td>
<td>2.41</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:814:GLN:CG</td>
<td>1:G:818:PHE:HE2</td>
<td>2.25</td>
<td>0.50</td>
</tr>
<tr>
<td>2:H:10:GLU:HB2</td>
<td>2:H:128:GLN:HG2</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>2:H:121:LEU:CD1</td>
<td>2:H:125:LYS:HD3</td>
<td>2.42</td>
<td>0.50</td>
</tr>
<tr>
<td>2:H:225:ALA:HA</td>
<td>2:H:258:PHE:CZ</td>
<td>2.47</td>
<td>0.50</td>
</tr>
<tr>
<td>2:B:6:LEU:HD11</td>
<td>2:B:8:VAL:HG23</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:948:SER:OG</td>
<td>10:C:1093:U:H5&quot;</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>2:D:12:GLY:HA2</td>
<td>2:D:144:LEU:HD13</td>
<td>1.92</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:40:GLU:OE1</td>
<td>1:G:325:LYS:HE2</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:796:LEU:HD23</td>
<td>1:G:797:PRO:N</td>
<td>2.27</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:101:GLU:OE2</td>
<td>1:A:104:ARG:NH2</td>
<td>2.41</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:467:GLU:O</td>
<td>1:A:471:ARG:HG2</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>2:B:285:LYS:HG3</td>
<td>2:B:314:PHE:CD1</td>
<td>2.47</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:1:MET:HB2</td>
<td>1:C:224:LYS:HZ2</td>
<td>1.76</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:675:ARG:HD3</td>
<td>1:C:675:ARG:H</td>
<td>1.77</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:802:SER:O</td>
<td>1:C:806:GLN:HG3</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:E:682:VAL:CG1</td>
<td>1:E:687:LEU:HB2</td>
<td>2.42</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:358:LYS:HG2</td>
<td>1:G:359:ILE:N</td>
<td>2.19</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:372:ASP:N</td>
<td>11:C:1371:HOH:O</td>
<td>2.30</td>
<td>0.50</td>
</tr>
<tr>
<td>1:E:425:ARG:HD3</td>
<td>11:E:1422:HOH:O</td>
<td>2.11</td>
<td>0.50</td>
</tr>
<tr>
<td>2:F:154:ASN:ND2</td>
<td>2:F:314:PHE:HZ</td>
<td>2.08</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:339:ILE:CD1</td>
<td>1:G:530:ASP:HA</td>
<td>2.36</td>
<td>0.50</td>
</tr>
<tr>
<td>1:G:579:ASP:OD1</td>
<td>1:G:605:THR:HB</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>1:A:527:LYS:HB2</td>
<td>1:A:544:TYR:CZ</td>
<td>2.46</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:563:MET:HE3</td>
<td>1:C:635:PRO:HG3</td>
<td>1.94</td>
<td>0.50</td>
</tr>
<tr>
<td>1:C:349:GLU:O</td>
<td>2:D:294:ASN:HB2</td>
<td>2.12</td>
<td>0.50</td>
</tr>
<tr>
<td>2:F:342:ARG:NE</td>
<td>2:F:344:ASP:OD2</td>
<td>2.45</td>
<td>0.50</td>
</tr>
<tr>
<td>2:H:32:PHE:HA</td>
<td>2:H:54:THR: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>2:D:9:LEU:HD12</td>
<td>2:D:13:THR:HB</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>2:D:6:LEU:HD13</td>
<td>2:D:16:HIS:CE1</td>
<td>2.47</td>
<td>0.49</td>
</tr>
<tr>
<td>2:F:281:ALA:HB2</td>
<td>2:F:322:PRO:HD3</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>1:G:180:GLY:HA2</td>
<td>1:G:376:THR:OG1</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>1:G:439:ILE:O</td>
<td>1:G:442:ALA:HB3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:G:9:SER:O</td>
<td>1:G:84:ASP:HB2</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:1066:GLN:HB2</td>
<td>11:C:1156:HOH:O</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:930:LYS:HE3</td>
<td>11:C:1159:HOH:O</td>
<td>2.11</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:421:LEU:HB3</td>
<td>1:E:421:LEU:HD13</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>1:G:569:PRO:O</td>
<td>1:G:571:ARG:HD2</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:416:ASP:OD2</td>
<td>1:A:416:ASP:N</td>
<td>2.34</td>
<td>0.49</td>
</tr>
<tr>
<td>1:G:697:ALA:HB3</td>
<td>1:G:700:MET:HB2</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>2:H:48:TYR:CZ</td>
<td>2:H:311:ASN:ND2</td>
<td>2.80</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:702:VAL:O</td>
<td>1:C:706:LYS:HD3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:E:735:ARG:O</td>
<td>1:E:738:PHE:HB2</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:951:GLU:O</td>
<td>1:C:954:LYS:HB2</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:G:735:ARG:O</td>
<td>1:G:738:PHE:HB2</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>2:B:157:ASP:OD1</td>
<td>2:B:160:LYS:HD3</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>2:B:186:LYS:O</td>
<td>2:B:187:GLU:C</td>
<td>2.50</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:1:MET:CB</td>
<td>1:C:2:PRO:HD2</td>
<td>2.43</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:223:ASP:OD2</td>
<td>1:C:227:ASN:HB2</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>2:D:263:ILE:HG22</td>
<td>2:D:264:PRO:CD</td>
<td>2.40</td>
<td>0.49</td>
</tr>
<tr>
<td>2:D:370:PHE:O</td>
<td>2:D:374:ILE:HG13</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>2:F:255:ILE:HA</td>
<td>2:F:258:PHE:CD2</td>
<td>2.48</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:240:MET:HE3</td>
<td>7:A:1087:ADP:C4</td>
<td>2.46</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:337:ASN:HB3</td>
<td>1:C:340:THR:OG1</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>2:D:2:ILE:HD11</td>
<td>11:D:2829:HOH:O</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:E:559:ARG:NH1</td>
<td>11:E:1893:HOH:O</td>
<td>2.44</td>
<td>0.49</td>
</tr>
<tr>
<td>1:E:691:ALA:HB3</td>
<td>1:E:708:ILE:HG23</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:E:695:VAL:HG21</td>
<td>1:E:701:ALA:CA</td>
<td>2.37</td>
<td>0.49</td>
</tr>
<tr>
<td>1:G:702:VAL:CG1</td>
<td>1:G:731:GLU:HG3</td>
<td>2.43</td>
<td>0.49</td>
</tr>
<tr>
<td>1:G:781:HIS:HE1</td>
<td>1:G:789:SER:HB2</td>
<td>1.76</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:1:MET:O</td>
<td>1:A:334:GLU:OE1</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:767:ILE:CD1</td>
<td>1:A:865:ALA:HB2</td>
<td>2.42</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:686:LYS:O</td>
<td>1:C:687:LEU:HD23</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:950:ARG:HD3</td>
<td>11:C:1583:HOH:O</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:E:157:ALA:O</td>
<td>1:E:160:ALA:HB3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:1017:THR:HG21</td>
<td>1:G:1023:ILE:CA</td>
<td>2.40</td>
<td>0.49</td>
</tr>
<tr>
<td>2:B:199:PHE:O</td>
<td>2:B:241:GLY:HA3</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>2:B:376:GLN:HG3</td>
<td>2:B:376:GLN:O</td>
<td>2.13</td>
<td>0.49</td>
</tr>
<tr>
<td>1:G:695:VAL:HG11</td>
<td>1:G:701:ALA:CA</td>
<td>2.43</td>
<td>0.49</td>
</tr>
<tr>
<td>1:G:79:GLU:HG2</td>
<td>1:G:111:PHE:CA</td>
<td>2.48</td>
<td>0.49</td>
</tr>
<tr>
<td>1:G:672:ALA:CB</td>
<td>1:G:844:PRO:HG3</td>
<td>2.42</td>
<td>0.49</td>
</tr>
<tr>
<td>2:H:310:GLN:OE1</td>
<td>2:H:312:HIS:NE2</td>
<td>2.46</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:1006:LYS:O</td>
<td>1:A:1006:LYS:HG3</td>
<td>2.12</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:150:HIS:N</td>
<td>1:A:154:GLU:OE2</td>
<td>2.30</td>
<td>0.49</td>
</tr>
<tr>
<td>1:A:225:ASN:ND2</td>
<td>1:A:331:THR:HG21</td>
<td>2.28</td>
<td>0.49</td>
</tr>
<tr>
<td>2:B:345:LYS:HB3</td>
<td>2:B:346:PRO:CD</td>
<td>2.43</td>
<td>0.49</td>
</tr>
<tr>
<td>1:C:420:ALA:HA</td>
<td>1:C:423[A]:LYS:HD2</td>
<td>1.95</td>
<td>0.49</td>
</tr>
<tr>
<td>1:E:967[A]:GLN:HG3</td>
<td>1:E:1054:LEU:HD13</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>2:F:133:ILE:HG22</td>
<td>2:F:138:PRO:HB3</td>
<td>1.94</td>
<td>0.49</td>
</tr>
<tr>
<td>1:E:110:GLU:HG2</td>
<td>1:E:111:PHE:CD1</td>
<td>2.47</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:493:LYS:HE2</td>
<td>1:E:517:ARG:CD</td>
<td>2.43</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:58:PRO:HD2</td>
<td>1:E:59:GLU:OE2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:693:ALA:CB</td>
<td>1:E:708:ILE:HD11</td>
<td>2.38</td>
<td>0.48</td>
</tr>
<tr>
<td>2:F:170:TRP:HB3</td>
<td>2:F:216:LEU:HB2</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:1021:ARG:O</td>
<td>1:G:1025:ASP:OD2</td>
<td>2.31</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:170:PRO:HA</td>
<td>1:G:204:LEU:HD23</td>
<td>1.94</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:354:TYR:CD2</td>
<td>1:G:387:ILE:HG23</td>
<td>2.48</td>
<td>0.48</td>
</tr>
<tr>
<td>2:H:286:MET:HE3</td>
<td>2:H:315:ALA:HB2</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>2:H:275:LEU:HD23</td>
<td>2:H:349:SER:HB3</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:347:SER:O</td>
<td>2:B:296:PRO:HB3</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:315:THR:O</td>
<td>1:G:531:THR:HG22</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:493:LYS:NZ</td>
<td>1:G:499:ASP:OD2</td>
<td>2.34</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:515:LYS:HG3</td>
<td>11:A:1774:HOH:O</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:479:VAL:HB</td>
<td>1:C:483:GLY:HA3</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:527:LYS:HB2</td>
<td>1:C:544:TYR:CA</td>
<td>2.48</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:68:PRO:HG3</td>
<td>1:C:930:LYS:O</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:1000:HIS:HD2</td>
<td>1:G:1003:ASP:H</td>
<td>1.61</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:460:ARG:HG3</td>
<td>11:G:1283:HOH:O</td>
<td>2.11</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>2:B:284:VAL:O</td>
<td>2:B:314:PHE:HA</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:228:CYS:O</td>
<td>1:C:269:MET:HE1</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:509:ARG:HH11</td>
<td>1:E:509:ARG:HB2</td>
<td>1.75</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:636:LYS:HD3</td>
<td>11:E:1773:HOH:O</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:853:VAL:O</td>
<td>1:E:857:THR:HG23</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:751:LEU:O</td>
<td>1:C:752:LEU:HD12</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:772:MET:HE2</td>
<td>1:C:880:THR:HA</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:1004:ARG:NH1</td>
<td>1:E:1009:GLU:OE1</td>
<td>2.41</td>
<td>0.48</td>
</tr>
<tr>
<td>2:H:227:ASP:HA</td>
<td>2:H:230:LYS:HD2</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:174:MET:HB3</td>
<td>11:C:1191:HOH:O</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:361:ARG:NH2</td>
<td>1:C:571:ARG:HG2</td>
<td>2.28</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:726:GLU:HG3</td>
<td>1:C:727:ILE:N</td>
<td>2.27</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:1021:ARG:HG3</td>
<td>1:E:1021:ARG:HH11</td>
<td>1.79</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:128:ASP:OD1</td>
<td>1:E:130:ARG:HB3</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:2:PRO:O</td>
<td>1:E:3:LYS:C</td>
<td>2.48</td>
<td>0.48</td>
</tr>
<tr>
<td>2:F:45:ASP:OD2</td>
<td>2:F:46:PRO:HD2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:730:ASP:O</td>
<td>1:G:733:ASP:HB2</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:775:ILE:HG13</td>
<td>1:A:810:ARG:HG2</td>
<td>1.94</td>
<td>0.48</td>
</tr>
<tr>
<td>2:B:290:HIS:NE2</td>
<td>2:B:334:ASP:OD1</td>
<td>2.46</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:626:VAL:O</td>
<td>1:C:630:VAL:HG23</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>2:D:342:ARG:NH2</td>
<td>2:D:344:ASP:OD1</td>
<td>2.30</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:35:LYS:O</td>
<td>1:E:39[B]:GLU:HB2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:151:THR:OG1</td>
<td>1:A:154:GLU:HG3</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:267:ALA:O</td>
<td>1:C:271:VAL:HG23</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>1:C:784:GLN:O</td>
<td>1:C:784:GLN:HG2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>2:B:50:ARG:HG2</td>
<td>2:B:158:LEU:HD22</td>
<td>1.95</td>
<td>0.48</td>
</tr>
<tr>
<td>2:D:153:LEU:O</td>
<td>2:D:155:GLY:N</td>
<td>2.47</td>
<td>0.48</td>
</tr>
<tr>
<td>2:H:18:ARG:NH1</td>
<td>2:H:20:ILE:HG22</td>
<td>2.29</td>
<td>0.48</td>
</tr>
<tr>
<td>2:H:295:HIS:NE2</td>
<td>2:H:333:PHE:HB2</td>
<td>2.29</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:703:GLU:HA</td>
<td>1:A:703:GLU:OE2</td>
<td>2.14</td>
<td>0.48</td>
</tr>
<tr>
<td>1:A:704:LYS:O</td>
<td>1:A:707:GLU:HB2</td>
<td>2.13</td>
<td>0.48</td>
</tr>
<tr>
<td>2:D:154:ASN:ND2</td>
<td>2:D:314:PHE:HZ</td>
<td>2.12</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:950:ARG:HH11</td>
<td>1:E:950:ARG:HD2</td>
<td>1.55</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>2:F:342:ARG:NH2</td>
<td>2:F:344:ASP:OD1</td>
<td>2.47</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:1027:ARG:NE</td>
<td>1:G:1031:ARG:HD3</td>
<td>2.28</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:530:ASP:C</td>
<td>1:G:531:THR:HG23</td>
<td>2.35</td>
<td>0.48</td>
</tr>
<tr>
<td>1:G:563:MET:HB2</td>
<td>1:G:638:VAL:HG22</td>
<td>1.96</td>
<td>0.48</td>
</tr>
<tr>
<td>1:E:493:ARG:HG2</td>
<td>1:E:547:TYR:CB</td>
<td>2.44</td>
<td>0.47</td>
</tr>
<tr>
<td>1:E:736:ARG:O</td>
<td>1:E:740:THR:HG23</td>
<td>2.13</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:563:MET:CB</td>
<td>1:G:638:VAL:HG22</td>
<td>2.44</td>
<td>0.47</td>
</tr>
<tr>
<td>2:H:296:PRO:HB2</td>
<td>2:H:332:LEU:HB2</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:361:ARG:HZ</td>
<td>1:A:571:ARG:HG2</td>
<td>2.45</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:130:ARG:HG3</td>
<td>1:C:148:ILE:HG13</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:70:HIS:O</td>
<td>1:C:73:VAL:N</td>
<td>2.45</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:772:MET:CE</td>
<td>1:C:880:THR:HG22</td>
<td>2.44</td>
<td>0.47</td>
</tr>
<tr>
<td>2:D:170:TRP:HB2</td>
<td>2:D:216:LEU:HB2</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:1:MET:HB2</td>
<td>1:A:224:LYS:HE3</td>
<td>1.95</td>
<td>0.47</td>
</tr>
<tr>
<td>1:E:224:LYS:NZ</td>
<td>11:E:1624:HOH:O</td>
<td>2.42</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:49:SER:O</td>
<td>1:G:51:PRO:HD3</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:956:ARG:HB3</td>
<td>1:C:1044:LEU:CD2</td>
<td>2.44</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:67:GLU:HB3</td>
<td>1:C:68:PRO:HD2</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:860:PRO:HB2</td>
<td>1:C:863:LYS:HB2</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>2:D:272:HIS:HA</td>
<td>2:D:349:SER:CB</td>
<td>2.44</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:168:ILE:HG23</td>
<td>1:G:204:LEU:HD22</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:698:ILE:CD1</td>
<td>1:G:698:ILE:H</td>
<td>2.27</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:943:GLY:O</td>
<td>1:G:969:PHE:HA</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:349:GLU:O</td>
<td>2:H:294:ASN:HB2</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>2:H:325:LEU:HD23</td>
<td>2:H:325:LEU:HA</td>
<td>1.35</td>
<td>0.47</td>
</tr>
<tr>
<td>2:B:272:HIS:HA</td>
<td>2:B:349:SER:HB2</td>
<td>1.95</td>
<td>0.47</td>
</tr>
<tr>
<td>2:D:197:TYR:HB3</td>
<td>2:D:199:PHE:CZ</td>
<td>2.50</td>
<td>0.47</td>
</tr>
<tr>
<td>2:D:286:MET:HG2</td>
<td>11:D:2883:HOH:O</td>
<td>2.13</td>
<td>0.47</td>
</tr>
<tr>
<td>2:D:316:VAL:HG12</td>
<td>2:D:337:LEU:CD2</td>
<td>2.44</td>
<td>0.47</td>
</tr>
<tr>
<td>1:E:368:ALA:HA</td>
<td>11:E:1708:HOH:O</td>
<td>2.14</td>
<td>0.47</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:772:MET:SD</td>
<td>1:G:880:THR:HG22</td>
<td>2.54</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:640:VAL:HG21</td>
<td>1:C:651:ALA:HB2</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:676:GLU:O</td>
<td>1:C:680:HIS:ND1</td>
<td>2.48</td>
<td>0.47</td>
</tr>
<tr>
<td>2:D:245:PRO:CG</td>
<td>2:D:274:LEU:HD21</td>
<td>2.44</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:527:LYS:HB2</td>
<td>1:G:544:TYR:CZ</td>
<td>2.49</td>
<td>0.47</td>
</tr>
<tr>
<td>2:B:291:HIS:HD2</td>
<td>2:B:311:ASN:OD1</td>
<td>1.98</td>
<td>0.47</td>
</tr>
<tr>
<td>2:B:48:TYR:HA</td>
<td>2:B:51:GLN:HE21</td>
<td>1.80</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:25:GLU:HG3</td>
<td>1:C:306:ARG:HA</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:3:LYS:HB2</td>
<td>1:C:42:TYR:OH</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:947:LEU:HA</td>
<td>1:G:1014:ILE:HG23</td>
<td>1.95</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:259:LYS:HD3</td>
<td>2:B:175:TRP:CE3</td>
<td>2.50</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:124:ASP:OD1</td>
<td>1:C:131:ARG:HD3</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>2:D:205:ILE:HG21</td>
<td>2:D:237:PHE:CZ</td>
<td>2.49</td>
<td>0.47</td>
</tr>
<tr>
<td>1:E:144:ALA:HB1</td>
<td>1:E:208:GLU:HG2</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>2:F:298:LYS:HG2</td>
<td>2:F:299:ASP:N</td>
<td>2.30</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:670:ASP:HB3</td>
<td>1:G:677:ARG:NH2</td>
<td>2.29</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:767:ILE:HD13</td>
<td>1:A:865:ALA:HB2</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:1018:SER:O</td>
<td>1:C:1022:ALA:HB3</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:75:ARG:HG3</td>
<td>1:C:107:VAL:CG1</td>
<td>2.45</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:158:VAL:HG11</td>
<td>1:C:206:ILE:HB</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:702:VAL:CG1</td>
<td>1:C:731:GLU:HG3</td>
<td>2.45</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:773:VAL:HG23</td>
<td>1:C:818:PHE:CZ</td>
<td>2.50</td>
<td>0.47</td>
</tr>
<tr>
<td>1:E:836:GLU:HB2</td>
<td>1:E:838:TYR:CE2</td>
<td>2.50</td>
<td>0.47</td>
</tr>
<tr>
<td>2:H:111:ALA:O</td>
<td>2:H:112:ASP:HB2</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:692:ASN:HA</td>
<td>1:A:752:LEU:O</td>
<td>2.15</td>
<td>0.47</td>
</tr>
<tr>
<td>1:C:695:VAL:HG23</td>
<td>1:C:752:LEU:HD22</td>
<td>1.97</td>
<td>0.47</td>
</tr>
<tr>
<td>1:E:1051:ALA:HA</td>
<td>1:E:1054:LEU:HD12</td>
<td>1.96</td>
<td>0.47</td>
</tr>
<tr>
<td>1:G:1004:ARG:O</td>
<td>1:G:1009[B]:GLU:HB2</td>
<td>2.14</td>
<td>0.47</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:185:ARG:O</td>
<td>1:G:188:PHE:HB3</td>
<td>2.14</td>
<td>0.47</td>
</tr>
<tr>
<td>1:A:612:THR:O</td>
<td>1:A:612:THR:HG22</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>2:B:209:LEU:HD23</td>
<td>2:B:209:LEU:HA</td>
<td>1.81</td>
<td>0.46</td>
</tr>
<tr>
<td>1:E:1019:GLY:O</td>
<td>1:E:1023:ILE:HG13</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>2:D:98:LEU:O</td>
<td>2:D:98:LEU:HD12</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:E:109:GLU:O</td>
<td>1:E:110:GLU:C</td>
<td>2.50</td>
<td>0.46</td>
</tr>
<tr>
<td>1:E:481:ILE:HG23</td>
<td>1:E:482:THR:N</td>
<td>2.29</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:423:LYS:H</td>
<td>1:G:423:LYS:HG3</td>
<td>1.50</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:435:ARG:O</td>
<td>1:G:436:ILE:C</td>
<td>2.52</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:90:MET:HA</td>
<td>1:G:304:VAL:HG22</td>
<td>1.96</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:532:CYS:O</td>
<td>1:C:533:ALA:HB3</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:103:GLU:HG3</td>
<td>1:G:104:ARG:N</td>
<td>2.19</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:131:ARG:HD2</td>
<td>11:G:1750:HOH:O</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>2:D:252:ILE:HD13</td>
<td>2:D:277:LEU:HB3</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>2:D:376:GLN:HA</td>
<td>2:D:379:LYS:NZ</td>
<td>2.30</td>
<td>0.46</td>
</tr>
<tr>
<td>2:H:254:ALA:O</td>
<td>2:H:257:LYS:HB2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>2:H:301:GLU:OE1</td>
<td>2:H:328:THR:HG22</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:E:998:ARG:HA</td>
<td>1:E:999:PRO:C</td>
<td>2.33</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:486:ALA:HB2</td>
<td>1:G:520:TYR:CG</td>
<td>2.51</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:734:LEU:HD11</td>
<td>1:G:738:PHE:HE2</td>
<td>1.79</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:972:ASP:OD1</td>
<td>1:A:989:ARG:HB3</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>2:B:41:GLU:HG3</td>
<td>2:B:69:ASP:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>2:D:263:ILE:CG2</td>
<td>2:D:264:PRO:HD2</td>
<td>2.42</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:124:ASP:OD1</td>
<td>1:G:131:ARG:HD3</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:484:LEU:HD22</td>
<td>1:G:489:LEU:HD13</td>
<td>1.98</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:665:SER:HB2</td>
<td>11:G:1668:HOH:O</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:726:GLU:OE1</td>
<td>1:G:1020:ARG:NE</td>
<td>2.36</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:693:ALA:CB</td>
<td>1:A:708:ILE:HD11</td>
<td>2.45</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:805:ILE:HG22</td>
<td>1:A:806:GLN:N</td>
<td>2.29</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:119:THR:O</td>
<td>1:C:120:ALA:C</td>
<td>2.53</td>
<td>0.46</td>
</tr>
<tr>
<td>1:E:176:GLY:N</td>
<td>7:E:1089:ADP:O2B</td>
<td>2.41</td>
<td>0.46</td>
</tr>
<tr>
<td>1:E:318:PRO:HB2</td>
<td>1:E:321:LYS:HB2</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:685:LEU:O</td>
<td>1:G:686:LYS:HB2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>2:H:10:GLU:O</td>
<td>2:H:12:GLY:N</td>
<td>2.48</td>
<td>0.46</td>
</tr>
<tr>
<td>2:B:46:PRO:HA</td>
<td>2:B:76:HIS:CB</td>
<td>2.46</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:236:ASN:HA</td>
<td>1:C:236:ASN:N</td>
<td>2.14</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>2:D:286:MET:HE1</td>
<td>2:D:315:ALA:HB2</td>
<td>1.98</td>
<td>0.46</td>
</tr>
<tr>
<td>2:D:331:SER:O</td>
<td>2:D:335:GLY:HA2</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:E:28:TYR:CZ</td>
<td>1:E:313:LYS:HE3</td>
<td>2.51</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:625:ASP:O</td>
<td>1:G:629:ILE:HG13</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:157:ALA:O</td>
<td>1:A:160:ALA:HB3</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>2:B:286:MET:CE</td>
<td>2:B:312:HIS:ND1</td>
<td>2.79</td>
<td>0.46</td>
</tr>
<tr>
<td>1:C:782:ILE:HD13</td>
<td>1:C:793:ALA:C</td>
<td>2.36</td>
<td>0.46</td>
</tr>
<tr>
<td>1:E:783:GLU:OE1</td>
<td>8:E:1091:ORN:NE</td>
<td>2.49</td>
<td>0.46</td>
</tr>
<tr>
<td>8:G:1091:ORN:N</td>
<td>11:G:1554:HOH:O</td>
<td>2.36</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:734:LEU:CD1</td>
<td>1:G:738:PHE:CE2</td>
<td>2.99</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:992:ASN:ND2</td>
<td>1:G:975:HIS:HE2</td>
<td>2.14</td>
<td>0.46</td>
</tr>
<tr>
<td>2:H:364:ALA:O</td>
<td>2:H:366:LEU:N</td>
<td>2.48</td>
<td>0.46</td>
</tr>
<tr>
<td>2:H:45:ASP:HB3</td>
<td>2:H:48:TYR:CD2</td>
<td>2.50</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:367:PHE:HB3</td>
<td>1:A:903:VAL:HG21</td>
<td>1.98</td>
<td>0.46</td>
</tr>
<tr>
<td>2:D:154:ASN:ND2</td>
<td>2:D:314:PHE:CEZ</td>
<td>2.84</td>
<td>0.46</td>
</tr>
<tr>
<td>2:D:364:ALA:N</td>
<td>2:D:365:PRO:CD</td>
<td>2.79</td>
<td>0.46</td>
</tr>
<tr>
<td>1:E:169:ARG:HG2</td>
<td>11:E:1874:HOH:O</td>
<td>2.15</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:417:ASP:HB3</td>
<td>1:G:420:ALA:HB2</td>
<td>1.97</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:674:ASP:HB3</td>
<td>1:G:677:ARG:HG3</td>
<td>1.98</td>
<td>0.46</td>
</tr>
<tr>
<td>1:G:806:GLN:HB3</td>
<td>1:G:810:ARG:NH1</td>
<td>2.31</td>
<td>0.46</td>
</tr>
<tr>
<td>2:H:27:VAL:O</td>
<td>2:H:78:GLN:HG2</td>
<td>2.16</td>
<td>0.46</td>
</tr>
<tr>
<td>2:H:344:ASP:OD2</td>
<td>2:H:345:LYS:N</td>
<td>2.48</td>
<td>0.46</td>
</tr>
<tr>
<td>1:A:585:ALA:HB2</td>
<td>1:A:642:TYR:CE2</td>
<td>2.52</td>
<td>0.45</td>
</tr>
<tr>
<td>2:B:263:ILE:HG22</td>
<td>2:B:264:PRO:CD</td>
<td>2.45</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:11:LEU:HA</td>
<td>1:C:45:ILE:O</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>2:D:286:MET:CE</td>
<td>2:D:312:HIS:ND1</td>
<td>2.79</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:597:ILE:HA</td>
<td>1:G:615:ARG:O</td>
<td>2.15</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:218:ILE:N</td>
<td>2:H:218:ILE:CD1</td>
<td>2.79</td>
<td>0.45</td>
</tr>
<tr>
<td>2:B:364:ALA:N</td>
<td>2:B:365:PRO:CD</td>
<td>2.79</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:891:LYS:HG2</td>
<td>1:C:892:GLU:N</td>
<td>2.30</td>
<td>0.45</td>
</tr>
<tr>
<td>2:D:286:MET:HE1</td>
<td>2:D:312:HIS:ND1</td>
<td>2.31</td>
<td>0.45</td>
</tr>
<tr>
<td>1:E:489:LEU:HD22</td>
<td>1:E:516:LEU:HD23</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>1:E:579:ASP:OD1</td>
<td>1:E:605:THR:HB</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>2:F:222:GLN:HB2</td>
<td>11:F:1487:HOH:O</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:775:ILE:CD1</td>
<td>1:G:813:VAL:HG11</td>
<td>2.46</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:8:VAL:CG1</td>
<td>2:H:9:LEU:N</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:671:ARG:CG</td>
<td>1:A:677:ARG:NH1</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>2:B:205:ILE:HG13</td>
<td>2:B:355:GLU:CG</td>
<td>2.46</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:726:GLU:CG</td>
<td>1:C:727:ILE:N</td>
<td>2.79</td>
<td>0.45</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:E:383:GLU:OE2</td>
<td>1:E:604:GLU:OE1</td>
<td>2.34</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:339:ILE:O</td>
<td>1:G:538:THR:OG1</td>
<td>2.29</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:688:LYS:HD2</td>
<td>1:G:838:TYR:CE1</td>
<td>2.52</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:11:ASP:OD2</td>
<td>2:H:13:THR:OG1</td>
<td>2.30</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:272:HIS:CA</td>
<td>2:H:349:SER:HB2</td>
<td>2.41</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:3:LYS:HB3</td>
<td>1:A:330:TYR:CE1</td>
<td>2.52</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:38:ARG:CG</td>
<td>1:A:38:ARG:HH11</td>
<td>2.12</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:220:VAL:O</td>
<td>1:C:281:GLY:HA2</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:502:LEU:O</td>
<td>1:G:505:LEU:HB2</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:246:ALA:O</td>
<td>2:H:248:ASP:N</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:352:GLY:O</td>
<td>2:H:354:PRO:HD3</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:364:ALA:N</td>
<td>2:H:365:PRO:HD2</td>
<td>2.31</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:50:ARG:HH12</td>
<td>2:H:156:MET:CE</td>
<td>2.30</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:286:PHE:CD1</td>
<td>1:A:295:LEU:HD11</td>
<td>2.51</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:695:VAL:CG1</td>
<td>1:A:696:THR:N</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:102:LEU:HA</td>
<td>1:G:102:LEU:HD23</td>
<td>1.82</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:770:GLY:CA</td>
<td>1:G:823:ARG:NH1</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:941:LYS:HE3</td>
<td>11:G:1704:HOH:O</td>
<td>2.15</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:284:VAL:O</td>
<td>2:H:315:ALA:N</td>
<td>2.45</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:644:GLY:O</td>
<td>1:A:647:PRO:HD2</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:947:LEU:N</td>
<td>1:A:947:LEU:CD1</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:1001:ILE:HD11</td>
<td>11:C:1576:HOH:O</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:103:GLU:HG3</td>
<td>1:C:104:ARG:N</td>
<td>2.31</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:103:GLU:HB2</td>
<td>1:C:108:LEU:HD12</td>
<td>1.99</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:176:GLY:HA3</td>
<td>1:C:377:GLN:HA</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:577:GLU:O</td>
<td>1:C:580:TYR:HB3</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:802:SER:OG</td>
<td>1:C:805:ILE:HB</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:865:ALA:O</td>
<td>1:C:869:MET:HG3</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>2:D:316:VAL:HB</td>
<td>2:D:337:LEU:HD23</td>
<td>1.97</td>
<td>0.45</td>
</tr>
<tr>
<td>2:B:224:SER:O</td>
<td>2:B:225:ALA:C</td>
<td>2.51</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:1064:SER:O</td>
<td>1:C:1068:MET:HG3</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:695:VAL:CG1</td>
<td>1:C:696:THR:N</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>1:E:1021:ARG:O</td>
<td>1:E:1025:ASP:OD2</td>
<td>2.34</td>
<td>0.45</td>
</tr>
<tr>
<td>1:E:141:LEU:HD23</td>
<td>1:E:141:LEU:HA</td>
<td>1.69</td>
<td>0.45</td>
</tr>
<tr>
<td>1:E:963:LYS:O</td>
<td>1:E:964:LEU:C</td>
<td>2.53</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:813:VAL:HA</td>
<td>1:G:816:LEU:HD12</td>
<td>1.98</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:223:ASP:CG</td>
<td>1:A:227:ASN:HB2</td>
<td>2.36</td>
<td>0.45</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:481:ILE:HG22</td>
<td>11:A:1762:HOH:O</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:1013:ILE:O</td>
<td>1:C:1040:TYR:HA</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:213:TRP:HH2</td>
<td>1:C:294:ARG:HD2</td>
<td>1.82</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:344:THR:HB</td>
<td>1:C:345:PRO:CD</td>
<td>2.47</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:23:THR:HG22</td>
<td>2:H:24:GLY:N</td>
<td>2.31</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:254:GLN:NE2</td>
<td>2:H:57:TYR:OH</td>
<td>2.50</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:35:LYS:HA</td>
<td>11:A:1142:HOH:O</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>2:B:369:HIS:O</td>
<td>2:B:373:LEU:HG</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>2:B:6:LEU:HD12</td>
<td>2:B:7:LEU:H</td>
<td>1.81</td>
<td>0.45</td>
</tr>
<tr>
<td>1:E:726:GLU:CG</td>
<td>1:E:727:ILE:N</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:333:ASP:N</td>
<td>1:G:333:ASP:OD1</td>
<td>2.49</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:703:GLU:O</td>
<td>1:G:706:LYS:HB2</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:883:VAL:CG1</td>
<td>1:G:884:ILE:N</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:274:LEU:O</td>
<td>2:H:275:LEU:C</td>
<td>2.55</td>
<td>0.45</td>
</tr>
<tr>
<td>1:C:735:ARG:O</td>
<td>1:C:738:PHE:HB2</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>2:D:50:ARG:NH1</td>
<td>2:D:156:MET:CE</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>1:E:282:SER:OG</td>
<td>1:E:302:PRO:HA</td>
<td>2.17</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:265:ARG:O</td>
<td>1:G:269:MET:HG3</td>
<td>2.16</td>
<td>0.45</td>
</tr>
<tr>
<td>1:G:65:TYR:CE2</td>
<td>1:G:77:ILE:HG23</td>
<td>2.52</td>
<td>0.45</td>
</tr>
<tr>
<td>2:H:232:ASN:N</td>
<td>2:H:233:PRO:CD</td>
<td>2.80</td>
<td>0.45</td>
</tr>
<tr>
<td>1:A:148:ILE:CG2</td>
<td>1:A:149:ALA:N</td>
<td>2.80</td>
<td>0.44</td>
</tr>
<tr>
<td>2:B:83:ARG:HG3</td>
<td>2:B:83:ARG:NH1</td>
<td>2.32</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:419:GLU:CB</td>
<td>1:C:423:[B]:LYS:HZ3</td>
<td>2.29</td>
<td>0.44</td>
</tr>
<tr>
<td>2:D:232:ASN:N</td>
<td>2:D:233:PRO:HD3</td>
<td>2.33</td>
<td>0.44</td>
</tr>
<tr>
<td>2:F:225:ALA:HB2</td>
<td>2:F:254:ALA:HB1</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:561:LYS:HG2</td>
<td>1:G:595:GLU:OE2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>2:H:364:ALA:N</td>
<td>2:H:365:PRO:CD</td>
<td>2.80</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:526:TYR:CE1</td>
<td>1:A:545:SER:HB3</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:76:LYS:HD2</td>
<td>1:A:76:LYS:HA</td>
<td>1.80</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:82:ARG:N</td>
<td>1:A:83:PRO:CD</td>
<td>2.81</td>
<td>0.44</td>
</tr>
<tr>
<td>2:B:199:PHE:HB3</td>
<td>2:B:270:LEU:HD23</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>2:B:350:PHE:CG</td>
<td>2:B:366:LEU:CD2</td>
<td>3.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:1028:VAL:CG1</td>
<td>1:E:1029:ILE:N</td>
<td>2.79</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:730:ASP:OD2</td>
<td>1:E:733:ASP:HB2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:1021:ARG:NH1</td>
<td>1:G:1021:ARG:CG</td>
<td>2.80</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:866:ALA:O</td>
<td>1:G:869:MET:HB2</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>2:H:18:ARG:NH1</td>
<td>11:H:502:HOH:O</td>
<td>2.50</td>
<td>0.44</td>
</tr>
<tr>
<td>2:H:281:ALA:HB2</td>
<td>2:H:322:PRO:HD3</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:34:CYS:SG</td>
<td>1:A:46:LEU:HD22</td>
<td>2.58</td>
<td>0.44</td>
</tr>
<tr>
<td>2:B:272:HIS:HA</td>
<td>2:B:349:SER:CB</td>
<td>2.48</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:148:ILE:CG2</td>
<td>1:E:149:ALA:N</td>
<td>2.80</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:436:ILE:HG22</td>
<td>11:G:1304:HOH:O</td>
<td>2.16</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:730:ASP:H</td>
<td>1:G:733:ASP:HB2</td>
<td>1.83</td>
<td>0.44</td>
</tr>
<tr>
<td>2:H:50:ARG:NH1</td>
<td>2:H:156:MET:CE</td>
<td>2.80</td>
<td>0.44</td>
</tr>
<tr>
<td>2:H:286:MET:CE</td>
<td>2:H:312:HIS:CE1</td>
<td>3.00</td>
<td>0.44</td>
</tr>
<tr>
<td>2:B:149:ALA:O</td>
<td>2:B:151:PRO:HD3</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>2:B:176:THR:O</td>
<td>2:B:180:GLY:N</td>
<td>2.39</td>
<td>0.44</td>
</tr>
<tr>
<td>2:B:354:PRO:HB2</td>
<td>2:B:367:PHE:CE2</td>
<td>2.53</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:659:VAL:HG13</td>
<td>1:C:660:PRO:HD2</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:736:ARG:HZ</td>
<td>1:C:736:ARG:HB3</td>
<td>2.47</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:734:LEU:O</td>
<td>1:E:737:TYR:HB3</td>
<td>2.16</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:692:ASN:HA</td>
<td>1:E:752:LEU:O</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:1026:SER:HB2</td>
<td>1:G:1030:ARG:HH12</td>
<td>1.82</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:473:GLU:HG2</td>
<td>1:G:505:LEU:HD11</td>
<td>1.98</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:702:VAL:O</td>
<td>1:A:706:LYS:HD3</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:620:PRO:O</td>
<td>1:C:625:ASP:HB2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>2:D:205:ILE:HG21</td>
<td>2:D:237:PHE:CE2</td>
<td>2.52</td>
<td>0.44</td>
</tr>
<tr>
<td>2:D:212:ARG:HH11</td>
<td>2:D:212:ARG:HG3</td>
<td>1.83</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:464:VAL:HG21</td>
<td>2:D:88:ILE:HG12</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:344:THR:HB</td>
<td>1:E:345:PRO:CD</td>
<td>2.46</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:588:ALA:HB2</td>
<td>1:E:863:LYS:HG2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:755:PHE:CE1</td>
<td>7:E:1090:ADP:C2</td>
<td>3.05</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:70:HIS:HE1</td>
<td>1:G:72:GLU:HG3</td>
<td>1.82</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:796:LEU:HD23</td>
<td>1:G:797:PRO:CA</td>
<td>2.48</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:735:ARG:O</td>
<td>1:A:736:ARG:C</td>
<td>2.54</td>
<td>0.44</td>
</tr>
<tr>
<td>2:D:6:LEU:HD21</td>
<td>2:D:140:ALA:HB2</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>2:D:342:ARG:HE</td>
<td>2:D:344:ASP:CG</td>
<td>2.19</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:222:ARG:NE</td>
<td>1:E:226:ASP:OD2</td>
<td>2.49</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:784:GLN:H</td>
<td>1:E:784:GLN:HE21</td>
<td>1.66</td>
<td>0.44</td>
</tr>
<tr>
<td>2:F:23:THR:CG2</td>
<td>2:F:24:GLY:N</td>
<td>2.81</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>2:F:365:PRO:O</td>
<td>2:F:368:ASP:N</td>
<td>2.49</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:412:LYS:HE2</td>
<td>1:G:434:ASP:CG</td>
<td>2.37</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:45:ILE:HA</td>
<td>1:G:63:ALA:O</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>2:H:120:ARG:HD2</td>
<td>11:H:413:HOH:O</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:331:THR:OG1</td>
<td>1:A:334:GLU:HG3</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:560:GLU:OE1</td>
<td>1:A:636:LYS:HD2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:703:GLU:OE2</td>
<td>1:A:706:LYS:NZ</td>
<td>2.36</td>
<td>0.44</td>
</tr>
<tr>
<td>2:B:342:ARG:HD2</td>
<td>2:B:342:ARG:HA</td>
<td>1.88</td>
<td>0.44</td>
</tr>
<tr>
<td>2:B:350:PHE:CG</td>
<td>2:B:366:LEU:HD22</td>
<td>2.53</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:1:MET:O</td>
<td>1:C:334:GLU:OE1</td>
<td>2.36</td>
<td>0.44</td>
</tr>
<tr>
<td>2:D:332:LEU:HA</td>
<td>2:D:332:LEU:HD12</td>
<td>1.68</td>
<td>0.44</td>
</tr>
<tr>
<td>1:E:755:PHE:CD1</td>
<td>7:E:1090:ADP:C2</td>
<td>3.06</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:1052:MET:O</td>
<td>1:G:1055:ASN:HB2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>2:H:50:ARG:HH12</td>
<td>2:H:156:MET:HE1</td>
<td>1.82</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:250:VAL:HA</td>
<td>1:A:356:VAL:O</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:900:PHE:N</td>
<td>1:A:901:PRO:HD3</td>
<td>2.33</td>
<td>0.44</td>
</tr>
<tr>
<td>2:B:29:GLU:HB2</td>
<td>2:B:153:LEU:HD22</td>
<td>1.99</td>
<td>0.44</td>
</tr>
<tr>
<td>2:H:104:ARG:CG2</td>
<td>2:H:105:HIS:HD2</td>
<td>1.82</td>
<td>0.44</td>
</tr>
<tr>
<td>2:H:50:ARG:NM1</td>
<td>2:H:156:MET:HE2</td>
<td>2.33</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:221:VAL:O</td>
<td>1:C:228:CYS:HA</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:361:ARG:CH</td>
<td>1:C:571:ARG:HG2</td>
<td>2.48</td>
<td>0.44</td>
</tr>
<tr>
<td>1:C:60[A]:MET:HE2</td>
<td>11:C:1495:HOH:O</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>2:D:379:LYS:HE2</td>
<td>2:D:379:LYS:HB3</td>
<td>1.75</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:1027:ARG:HE</td>
<td>1:G:1031:ARG:CD</td>
<td>2.29</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:35:LYS:HD2</td>
<td>11:G:1144:HOH:O</td>
<td>2.17</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:670:ASP:HB3</td>
<td>1:G:677:ARG:HH21</td>
<td>1.83</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:713:VAL:HG23</td>
<td>1:G:755:PHE:HB2</td>
<td>2.00</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:796:LEU:HD23</td>
<td>1:G:796:LEU:C</td>
<td>2.38</td>
<td>0.44</td>
</tr>
<tr>
<td>1:G:873:SER:OG</td>
<td>1:G:876:GLU:HB2</td>
<td>2.18</td>
<td>0.44</td>
</tr>
<tr>
<td>1:A:1001:ILE:HD12</td>
<td>1:A:1002:GLN:CB</td>
<td>2.47</td>
<td>0.43</td>
</tr>
<tr>
<td>2:B:228:VAL:HA</td>
<td>2:B:231:MET:HE3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>2:B:244:ASP:OD2</td>
<td>2:B:245:PRO:HD2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:82:ARG:N</td>
<td>1:C:83:PRO:CD</td>
<td>2.80</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:894:VAL:O</td>
<td>1:C:913:SER:HB2</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:691:ALA:CB</td>
<td>1:E:708:ILE:HG23</td>
<td>2.47</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:967[B]:GLN:NE2</td>
<td>1:E:1054:LEU:CD1</td>
<td>2.78</td>
<td>0.43</td>
</tr>
<tr>
<td>2:F:223:THR:HG22</td>
<td>2:F:228:VAL:HG23</td>
<td>1.98</td>
<td>0.43</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:F:245:PRO:CG</td>
<td>2:F:274:LEU:HD21</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:664:THR:HG22</td>
<td>1:G:668:ALA:HB3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>2:H:27:VAL:HG21</td>
<td>2:H:146:LYS:HB3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>2:B:58:PRO:HA</td>
<td>2:B:83:ARG:HB3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:24:CYS:CB</td>
<td>1:C:576:ILE:HD12</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:695:VAL:HG12</td>
<td>1:C:696:THR:N</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:981:LEU:HD12</td>
<td>1:C:988:PRO:HG3</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:244:ASP:OD2</td>
<td>2:D:245:PRO:HD2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:711:PRO:HG2</td>
<td>1:E:755:PHE:HD2</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>2:F:48:TYR:HA</td>
<td>2:F:51:GLN:NE2</td>
<td>2.30</td>
<td>0.43</td>
</tr>
<tr>
<td>9:G:1092:NET:C4</td>
<td>9:G:1092:NET:H22</td>
<td>2.43</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:530:ASP:O</td>
<td>1:G:531:THR:OG1</td>
<td>2.29</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:560:GLU:OE1</td>
<td>1:G:636:LYS:HE3</td>
<td>2.17</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:738:PHE:HA</td>
<td>1:G:741:ALA:HB3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:762:VAL:CG1</td>
<td>1:G:763:ASP:N</td>
<td>2.81</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:235:GLU:HB2</td>
<td>1:A:253:ALA:HA</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:45:ILE:HD13</td>
<td>1:A:81:GLU:HB3</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:571:ARG:NH2</td>
<td>11:A:1415:HOH:O</td>
<td>2.27</td>
<td>0.43</td>
</tr>
<tr>
<td>2:B:307:ILE:HD13</td>
<td>2:B:307:ILE:N</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:701:ALA:O</td>
<td>1:C:705:ALA:N</td>
<td>2.40</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:702:VAL:HG11</td>
<td>1:C:735:ARG:HH21</td>
<td>1.79</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:43:LEU:HD21</td>
<td>2:D:80:LEU:HD13</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:533:ALA:O</td>
<td>1:E:534:ALA:HB3</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:936:ASN:ND2</td>
<td>11:E:1156:HOH:O</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:1000:HIS:NE2</td>
<td>1:G:1002:GLN:HB3</td>
<td>2.34</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:257:THR:O</td>
<td>1:G:258:ASP:C</td>
<td>2.56</td>
<td>0.43</td>
</tr>
<tr>
<td>2:H:270:LEU:HA</td>
<td>2:H:270:LEU:HD12</td>
<td>1.57</td>
<td>0.43</td>
</tr>
<tr>
<td>2:B:150:PHE:CD2</td>
<td>2:B:151:PRO:HD2</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>9:C:1092:NET:H83</td>
<td>9:C:1092:NET:H11</td>
<td>1.80</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:704:LYS:O</td>
<td>1:C:707:GLU:HB2</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:735:ARG:O</td>
<td>1:C:738:PHE:N</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:364:ALA:N</td>
<td>2:D:365:PRO:HD2</td>
<td>2.34</td>
<td>0.43</td>
</tr>
<tr>
<td>2:F:195:VAL:HG21</td>
<td>2:F:231:MET:HE3</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:178:GLY:CA</td>
<td>1:G:198:LEU:HD23</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:488:PHE:O</td>
<td>1:G:489:LEU:C</td>
<td>2.55</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:692:ASN:C</td>
<td>1:G:708:ILE:HD11</td>
<td>2.39</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:709:GLY:O</td>
<td>1:G:754:HIS:ND1</td>
<td>2.50</td>
<td>0.43</td>
</tr>
<tr>
<td>2:H:132:ILE:CG2</td>
<td>2:H:133:ILE:N</td>
<td>2.81</td>
<td>0.43</td>
</tr>
<tr>
<td>2:H:193:HIS:O</td>
<td>2:H:234:ASP:HB2</td>
<td>2.18</td>
<td>0.43</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:C:424:ILE:HG21</td>
<td>1:C:424:ILE:HD13</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:693:ALA:HB3</td>
<td>1:C:752:LEU:HB2</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:199:PHE:CE2</td>
<td>2:D:274:LEU:HD12</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:354:PRO:HB2</td>
<td>2:D:367:PHE:CE2</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:74:GLN:HB2</td>
<td>11:D:2853:HOH:O</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:831:ALA:HB2</td>
<td>1:E:840:ILE:HD11</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:949:VAL:O</td>
<td>1:E:954:LYS:NZ</td>
<td>2.41</td>
<td>0.43</td>
</tr>
<tr>
<td>2:F:190:LEU:HA</td>
<td>2:F:191:PRO:HD2</td>
<td>1.80</td>
<td>0.43</td>
</tr>
<tr>
<td>2:H:16:HIS:CD2</td>
<td>2:H:16:HIS:N</td>
<td>2.86</td>
<td>0.43</td>
</tr>
<tr>
<td>2:H:199:PHE:CE2</td>
<td>2:H:274:LEU:CD1</td>
<td>3.02</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:784:GLN:HE22</td>
<td>1:A:1043:THR:HB</td>
<td>1.83</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:740:THR:HG23</td>
<td>1:A:740:THR:H</td>
<td>1.51</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:350:PHE:HB2</td>
<td>2:D:366:LEU:CD2</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:563:MET:CE</td>
<td>1:E:635:PRO:HG3</td>
<td>2.45</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:998:ARG:HG2</td>
<td>1:E:999:PRO:HA</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>2:F:342:ARG:HA</td>
<td>2:F:342:ARG:HD2</td>
<td>1.79</td>
<td>0.43</td>
</tr>
<tr>
<td>2:F:364:ALA:N</td>
<td>2:F:365:PRO:HD2</td>
<td>2.32</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:1019:GLY:O</td>
<td>1:G:1023:ILE:HG13</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:814:GLN:O</td>
<td>1:G:815:LYS:C</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>2:H:210:VAL:O</td>
<td>2:H:211:ASP:C</td>
<td>2.57</td>
<td>0.43</td>
</tr>
<tr>
<td>2:B:285:LYS:HG3</td>
<td>2:B:314:PHE:CZ</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:163:GLY:O</td>
<td>1:C:166:CYS:HB3</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:50:ARG:HH12</td>
<td>2:D:156:MET:CE</td>
<td>2.32</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:17:PRO:HG3</td>
<td>1:E:917:VAL:HG13</td>
<td>2.00</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:704:LYS:O</td>
<td>1:E:705:ALA:C</td>
<td>2.56</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:106:GLY:HA2</td>
<td>11:G:1176:HOH:O</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:548:GLU:OE1</td>
<td>2:H:114:ASP:HA</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:814:GLN:HG3</td>
<td>1:G:818:PHE:CE2</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:194:ARG:NH2</td>
<td>11:A:1266:HOH:O</td>
<td>2.30</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:891:LYS:NZ</td>
<td>11:A:1825:HOH:O</td>
<td>2.51</td>
<td>0.43</td>
</tr>
<tr>
<td>2:B:350:PHE:CD1</td>
<td>2:B:366:LEU:HD21</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:28:TYR:CE1</td>
<td>1:C:313:LYS:HE3</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:678:PHE:O</td>
<td>1:C:681:ALA:N</td>
<td>2.52</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:168:TYR:O</td>
<td>2:D:218:ILE:N</td>
<td>2.43</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:6:LEU:HD13</td>
<td>2:D:16:HIS:ND1</td>
<td>2.34</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:272:HIS:HB2</td>
<td>2:D:349:SER:HB2</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:41:GLU:HB2</td>
<td>2:D:358:PRO:HD3</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:761:GLU:HG2</td>
<td>1:E:781:HIS:CE1</td>
<td>2.54</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>2:F:46:PRO:HA</td>
<td>2:F:76:HIS:CG</td>
<td>2.53</td>
<td>0.43</td>
</tr>
<tr>
<td>2:H:300:VAL:HG2</td>
<td>2:H:328:THR:O</td>
<td>2.19</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:373:ARG:O</td>
<td>1:C:379:LYS:NZ</td>
<td>2.40</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:375:THR:HG23</td>
<td>1:C:377:GLN:H</td>
<td>1.84</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:201:ALA:CB</td>
<td>2:D:239:SER:HB2</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:885:PRO:HA</td>
<td>1:E:886:PRO:HD3</td>
<td>1.65</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:472:LEU:O</td>
<td>1:G:476:VAL:HG23</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:G:883:VAL:HG12</td>
<td>1:G:884:ILE:N</td>
<td>2.33</td>
<td>0.43</td>
</tr>
<tr>
<td>2:H:201:ALA:HB2</td>
<td>2:H:239:SER:HB2</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>2:B:201:ALA:HB2</td>
<td>2:B:239:SER:HB2</td>
<td>1.99</td>
<td>0.43</td>
</tr>
<tr>
<td>2:B:49:SER:HA</td>
<td>2:B:76:HIS:O</td>
<td>2.18</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:28:TYR:CZ</td>
<td>1:C:313:LYS:HE3</td>
<td>2.54</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:358:LYS:HG2</td>
<td>1:C:359:ILE:N</td>
<td>2.32</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:891:LYS:HE3</td>
<td>1:C:893:VAL:HG12</td>
<td>2.01</td>
<td>0.43</td>
</tr>
<tr>
<td>1:C:947:LEU:HG</td>
<td>1:C:1014:ILE:CG2</td>
<td>2.49</td>
<td>0.43</td>
</tr>
<tr>
<td>2:D:234:ASP:CG</td>
<td>2:D:378:ARG:HH11</td>
<td>2.22</td>
<td>0.43</td>
</tr>
<tr>
<td>1:E:805:ILE:CD1</td>
<td>1:E:837:VAL:HG23</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>2:H:54:THR:HG23</td>
<td>2:H:81:VAL:CG1</td>
<td>2.48</td>
<td>0.43</td>
</tr>
<tr>
<td>1:A:702:VAL:HG11</td>
<td>1:A:735:ARG:NH2</td>
<td>2.34</td>
<td>0.42</td>
</tr>
<tr>
<td>2:B:342:ARG:NE</td>
<td>2:B:344:ASP:OD2</td>
<td>2.51</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:493:LYS:HD2</td>
<td>1:E:493:LYS:HA</td>
<td>1.74</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:646:THR:HB</td>
<td>1:E:647:PRO:HD3</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:836:GLU:HG3</td>
<td>11:E:1817:HOH:O</td>
<td>2.18</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:948:SER:OG</td>
<td>10:E:1093:U:H5</td>
<td>2.18</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:692:ASN:HB3</td>
<td>1:G:753:ASP:OD2</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:82:ARG:NH1</td>
<td>11:G:1744:HOH:O</td>
<td>2.52</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:425[A]:ARG:NH1</td>
<td>11:A:1430:HOH:O</td>
<td>2.32</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:796:LEU:C</td>
<td>1:A:796:LEU:HD23</td>
<td>2.40</td>
<td>0.42</td>
</tr>
<tr>
<td>2:B:268:ILE:HD13</td>
<td>2:B:354:PRO:HD2</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:223:ASP:CG</td>
<td>1:C:227:ASN:HB2</td>
<td>2.39</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:956:ARG:HB3</td>
<td>1:C:1044:LEU:HD23</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>2:D:157:ASP:CG</td>
<td>2:D:160:LYS:HG2</td>
<td>2.40</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:1021:ARG:CG</td>
<td>1:E:1021:ARG:NH1</td>
<td>2.80</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:458:ILE:O</td>
<td>1:E:463:LEU:HD11</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:652[A]:ARG:HH12</td>
<td>1:G:667:ASP:HA</td>
<td>1.81</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:885:PRO:HA</td>
<td>1:G:886:PRO:HD3</td>
<td>1.66</td>
<td>0.42</td>
</tr>
<tr>
<td>2:H:5:ALA:HB1</td>
<td>2:H:110:ILE:HG13</td>
<td>2.01</td>
<td>0.42</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:840:ILE:O</td>
<td>1:A:841:GLU:HB3</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>2:B:255:ILE:HD13</td>
<td>2:B:274:LEU:HB3</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:775:ILE:HA</td>
<td>1:C:775:ILE:HD13</td>
<td>1.84</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:26:PHE:HA</td>
<td>1:E:29[B]:SER:OG</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>2:F:139:ASP:OD2</td>
<td>2:F:142:LEU:HB2</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:671:ARG:NH2</td>
<td>1:G:819:GLU:O</td>
<td>2.52</td>
<td>0.42</td>
</tr>
<tr>
<td>2:B:369:HIS:O</td>
<td>2:B:372:GLU:HB2</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:710:TYR:HA</td>
<td>1:C:711:PRO:C</td>
<td>2.39</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:864:VAL:O</td>
<td>1:C:868:VAL:HG23</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:446:GLY:C</td>
<td>1:E:447:LEU:HD23</td>
<td>2.40</td>
<td>0.42</td>
</tr>
<tr>
<td>2:F:286:MET:CE</td>
<td>2:F:312:HIS:ND1</td>
<td>2.82</td>
<td>0.42</td>
</tr>
<tr>
<td>2:H:256:GLN:HG3</td>
<td>2:H:278:ALA:HB1</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:435:ARG:HB2</td>
<td>11:C:1376:HOH:O</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:105:GLN:CA</td>
<td>1:G:105:GLN:NE2</td>
<td>2.82</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:421:LEU:HD21</td>
<td>1:G:445:ALA:HB1</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:479:VAL:HG23</td>
<td>1:G:480:GLY:O</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:734:LEU:O</td>
<td>1:G:737:TYR:HB3</td>
<td>2.18</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:772:MET:CE</td>
<td>1:G:880:THR:HA</td>
<td>2.49</td>
<td>0.42</td>
</tr>
<tr>
<td>2:H:275:LEU:CD2</td>
<td>2:H:349:SER:HB3</td>
<td>2.48</td>
<td>0.42</td>
</tr>
<tr>
<td>2:H:45:ASP:O</td>
<td>2:H:76:HIS:HB2</td>
<td>2.18</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:932:GLN:HG3</td>
<td>11:C:1554:HOH:O</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>2:D:50:ARG:NH1</td>
<td>2:D:156:MET:HE1</td>
<td>2.35</td>
<td>0.42</td>
</tr>
<tr>
<td>2:D:325:LEU:HA</td>
<td>2:D:325:LEU:HD23</td>
<td>1.52</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:1:MET:O</td>
<td>1:E:329:GLY:O</td>
<td>2.38</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:434:ASP:O</td>
<td>1:E:435:ARG:C</td>
<td>2.57</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:6:ASP:N</td>
<td>1:E:6:ASP:OD2</td>
<td>2.42</td>
<td>0.42</td>
</tr>
<tr>
<td>2:F:188:ASP:OD2</td>
<td>2:F:188:ASP:N</td>
<td>2.52</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:1:MET:CB</td>
<td>1:G:224:LYS:HZ2</td>
<td>2.17</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:630:VAL:HG13</td>
<td>1:G:635:PRO:CD</td>
<td>2.50</td>
<td>0.42</td>
</tr>
<tr>
<td>2:B:172:GLN:HA</td>
<td>11:B:3559:HOH:O</td>
<td>2.18</td>
<td>0.42</td>
</tr>
<tr>
<td>2:D:71:GLU:O</td>
<td>2:D:203:ARG:HG3</td>
<td>2.20</td>
<td>0.42</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:130:ARG:O</td>
<td>1:G:134:VAL:HG23</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:980:VAL:HG13</td>
<td>11:C:1568:HOH:O</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>2:D:236:ILE:HB</td>
<td>2:D:265:VAL:HG22</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:764:VAL:HA</td>
<td>1:E:777:GLY:O</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:318:PRO:HB2</td>
<td>1:G:321:LYS:HB2</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:762:VAL:CG2</td>
<td>1:G:801:LEU:HD11</td>
<td>2.49</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:954:LYS:HB3</td>
<td>1:A:980:VAL:HG21</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:183:TYR:N</td>
<td>1:C:187:GLU:OE1</td>
<td>2.33</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:689:GLN:O</td>
<td>1:C:690:PRO:C</td>
<td>2.58</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:695:VAL:HG11</td>
<td>1:C:701:ALA:CB</td>
<td>2.41</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:827:ASN:N</td>
<td>1:C:843:ASN:O</td>
<td>2.51</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:954:LYS:HG2</td>
<td>1:C:980:VAL:HG21</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>2:D:85:LEU:HD12</td>
<td>2:D:86:PRO:HD2</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:757:ASP:O</td>
<td>1:E:758:ASP:C</td>
<td>2.58</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:948:SER:O</td>
<td>1:G:1015:ASN:HA</td>
<td>2.19</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:992:ASN:HD2 &amp; 1:G:975:HIS:HE2</td>
<td>1.68</td>
<td>0.42</td>
<td></td>
</tr>
<tr>
<td>2:H:318:GLU:HA</td>
<td>2:H:337:LEU:HD22</td>
<td>2.01</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:185:ARG:HD3 &amp; 1:A:185:ARG:HH11</td>
<td>1.73</td>
<td>0.42</td>
<td></td>
</tr>
<tr>
<td>1:A:370:ALA:HB2</td>
<td>1:A:903:VAL:HG23</td>
<td>2.00</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:44:VAL:O</td>
<td>1:A:62:ASP:HB2</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:C:132:PHE:O</td>
<td>1:C:136:MET:HG2</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:E:65:TYR:OH</td>
<td>1:E:80:LYS:HE3</td>
<td>2.20</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:256:LEU:HD23</td>
<td>1:G:256:LEU:HA</td>
<td>1.91</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:37:LEU:HD23</td>
<td>1:G:37:LEU:HA</td>
<td>1.81</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:698:ILE:CD1</td>
<td>1:G:698:ILE:CD1</td>
<td>2.83</td>
<td>0.42</td>
</tr>
<tr>
<td>1:G:893:VAL:HA</td>
<td>1:G:916:GLU:HA</td>
<td>2.02</td>
<td>0.42</td>
</tr>
<tr>
<td>2:H:193:HIS:HD2</td>
<td>2:H:194:VAL:N</td>
<td>2.18</td>
<td>0.42</td>
</tr>
<tr>
<td>1:A:14:GLY:HA2</td>
<td>11:A:1098:HOH:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:817:ALA:HB2</td>
<td>1:A:826:MET:SD</td>
<td>2.60</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:29:GLU:CB</td>
<td>2:B:153:LEU:HD22</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:677:ARG:O</td>
<td>1:E:680:HIS:HB2</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:76:LYS:HD2</td>
<td>1:E:76:LYS:HA</td>
<td>1.91</td>
<td>0.41</td>
</tr>
</tbody>
</table>

Continued on next page...
## Full wwPDB X-ray Structure Validation Report

### 1T36

### Continued from previous page...

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:425:ARG:NH1</td>
<td>11:G:1403:HOH:O</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>2:H:289:GLY:O</td>
<td>2:H:290:HIS:HD2</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:318:PRO:HG3</td>
<td>1:A:610:TYR:OH</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:190:LEU:HD12</td>
<td>2:B:215:ARG:HB2</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:325:LEU:HA</td>
<td>2:B:325:LEU:HD23</td>
<td>1.57</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:363:ALA:C</td>
<td>2:B:365:PRO:HD2</td>
<td>2.41</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:956:ARG:HD3</td>
<td>1:C:1044:LEU:HD23</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:222:ARG:HD3</td>
<td>1:C:277:VAL:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:679:GLN:HG3</td>
<td>1:C:689:GLN:HE22</td>
<td>1.84</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:652:ARG:HD3</td>
<td>1:E:666:PRO:HB2</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>2:F:345:LYS:HB3</td>
<td>2:F:346:PRO:CD</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:686:LYS:O</td>
<td>1:G:687:LEU:HD23</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:735:ARG:O</td>
<td>1:G:736:ARG:C</td>
<td>2.58</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:761:GLU:HB3</td>
<td>1:G:781:HIS:ND1</td>
<td>2.34</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:990:LEU:HD21</td>
<td>1:G:975:HIS:CE1</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>2:H:299:ASP:HB3</td>
<td>2:H:304:VAL:HG22</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>2:H:354:PRO:HA</td>
<td>2:H:363:ALA:HB3</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:221:VAL:HA</td>
<td>1:A:281:GLY:HA2</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:672:ALA:CB</td>
<td>1:A:844:PRO:HG3</td>
<td>2.48</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:228:VAL:CG1</td>
<td>2:B:258:PHE:CE1</td>
<td>3.00</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:355:GLU:O</td>
<td>2:B:356:ALA:C</td>
<td>2.58</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:384:VAL:HG22</td>
<td>1:C:385:MET:N</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:57:ASP:OD1</td>
<td>1:C:584:HIS:NE2</td>
<td>2.46</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:6:ASP:N</td>
<td>1:C:6:ASP:OD2</td>
<td>2.43</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:106:GLY:HA2</td>
<td>11:E:1178:HOH:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:81:GLU:O</td>
<td>1:E:82:ARG:C</td>
<td>2.57</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:1001:ILE:CD1</td>
<td>1:G:1029:ILE:HD11</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:166:CYS:C</td>
<td>1:A:167:ILE:HD12</td>
<td>2.41</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:563:MET:HE3</td>
<td>1:A:563:MET:HB2</td>
<td>1.90</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:734:LEU:HD11</td>
<td>1:A:738:PHE:CE2</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>2:D:324:ASN:O</td>
<td>2:D:342:ARG:HA</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>2:D:8:VAL:HG12</td>
<td>2:D:9:LEU:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:734:LEU:CD1</td>
<td>1:E:738:PHE:CE2</td>
<td>3.00</td>
<td>0.41</td>
</tr>
<tr>
<td>2:F:225:ALA:HA</td>
<td>2:F:258:PHE:CZ</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:402:LEU:O</td>
<td>1:G:403:GLU:HB2</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:656:ALA:C</td>
<td>1:G:658:GLY:H</td>
<td>2.24</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:728:VAL:HG11</td>
<td>1:G:734:LEU:CA</td>
<td>2.49</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:992:ASN:HA</td>
<td>1:G:996:GLU:OE1</td>
<td>2.19</td>
<td>0.41</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:H:272:HIS:HD2</td>
<td>2:H:351:GLN:NE2</td>
<td>2.19</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:543:MET:CE</td>
<td>1:A:617:TYR:CZ</td>
<td>3.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:895:LEU:HA</td>
<td>1:A:896:PRO:HD3</td>
<td>1.90</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:141:ALA:O</td>
<td>2:B:145:GLU:HB2</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:176:GLY:HA3</td>
<td>1:C:376:THR:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:180:GLY:HA2</td>
<td>1:C:376:THR:OG1</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:457:ASN:ND2</td>
<td>11:C:1288:HOH:O</td>
<td>2.53</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:48:ASN:O</td>
<td>1:C:66:ILE:HA</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:493:LYS:NZ</td>
<td>1:C:499:ASP:OD2</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>2:D:48:TYR:HA</td>
<td>2:D:51:GLN:NE2</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:1:MET:CB</td>
<td>1:E:224:LYS:NZ</td>
<td>2.80</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:527:LYS:HB2</td>
<td>1:E:544:TYR:CZ</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:671:ARG:CG</td>
<td>1:E:677:ARG:NH1</td>
<td>2.84</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:637:GLY:HA2</td>
<td>1:G:660:PRO:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:992:ASN:ND2</td>
<td>1:G:996:GLU:HB3</td>
<td>2.35</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:367:PHE:O</td>
<td>1:A:370:ALA:HB3</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:357:SER:HA</td>
<td>2:B:358:PRO:HA</td>
<td>1.76</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:761:GLU:OE2</td>
<td>1:C:785:ALA:HA</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>2:D:245:PRO:HG2</td>
<td>2:D:274:LEU:CD2</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:954:LYS:NZ</td>
<td>10:E:1093:U:OP3</td>
<td>2.30</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:1065:VAL:O</td>
<td>1:G:1068:MET:HB2</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:804:GLU:HB3</td>
<td>11:G:1688:HOH:O</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:853:VAL:HG12</td>
<td>1:G:861:LEU:HD11</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:1001:ILE:CD1</td>
<td>1:A:1002:GLN:N</td>
<td>2.80</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:692:ASN:HB3</td>
<td>1:A:753:ASP:CG</td>
<td>2.41</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:300:VAL:HG22</td>
<td>2:B:328:THR:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:75:ARG:HG3</td>
<td>1:C:107:VAL:HG11</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:903:VAL:HG22</td>
<td>11:C:1369:HOH:O</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:761:GLU:HB3</td>
<td>1:E:781:HIS:ND1</td>
<td>2.36</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:11:LEU:HA</td>
<td>1:G:45:ILE:O</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:362:PHE:CE1</td>
<td>1:G:380:SER:HB3</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:805:ILE:HD13</td>
<td>1:G:832:VAL:HG11</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:130[B]:ARG:HD2</td>
<td>11:A:1197:HOH:O</td>
<td>2.19</td>
<td>0.41</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:259:LYS:HD3</td>
<td>2:B:175:TRP:CD2</td>
<td>2.55</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:13:THR:HG22</td>
<td>2:B:15:PHE:CE2</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:255:ILE:CD1</td>
<td>2:B:274:LEU:HB3</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:332:LEU:HA</td>
<td>2:B:332:LEU:HD12</td>
<td>1.76</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:761:GLU:CG</td>
<td>1:C:781:HIS:CE1</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:115:MET:HG2</td>
<td>1:C:118:ALA:O</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>2:H:23:THR:CG2</td>
<td>2:H:24:GLY:N</td>
<td>2.74</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:773:VAL:CG2</td>
<td>1:A:814:GLN:HG3</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:750:VAL:HG12</td>
<td>1:C:752:LEU:CD1</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>2:D:64:GLY:HA3</td>
<td>2:D:94:ASN:OD1</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:669:ILE:HA</td>
<td>1:E:844:PRO:HG2</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:812:GLN:O</td>
<td>1:G:816:LEU:HD12</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:133:ILE:HG21</td>
<td>2:B:133:ILE:HD13</td>
<td>1.73</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:187:GLU:O</td>
<td>2:B:189:GLU:N</td>
<td>2.53</td>
<td>0.41</td>
</tr>
<tr>
<td>2:B:350:PHE:HB2</td>
<td>2:B:366:LEU:HD23</td>
<td>2.01</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:1063:ILE:CG1</td>
<td>1:E:1064:SER:N</td>
<td>2.84</td>
<td>0.41</td>
</tr>
<tr>
<td>2:F:341:HIS:CD2</td>
<td>2:F:348:PHE:HB3</td>
<td>2.56</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:830:PHE:CE1</td>
<td>1:G:839:LEU:CD1</td>
<td>3.04</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:875:ALA:HB2</td>
<td>11:G:1504:HOH:O</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>2:H:245:PRO:HG3</td>
<td>2:H:274:LEU:HG</td>
<td>2.02</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:361:ARG:CZ</td>
<td>1:A:404:VAL:HG12</td>
<td>2.51</td>
<td>0.41</td>
</tr>
<tr>
<td>1:A:820:LEU:O</td>
<td>1:A:821:GLN:HB2</td>
<td>2.20</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:1051:ALA:HA</td>
<td>1:C:1054:LEU:HD12</td>
<td>2.03</td>
<td>0.41</td>
</tr>
<tr>
<td>2:D:228:VAL:HG12</td>
<td>2:D:229:LEU:N</td>
<td>2.34</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:570:ASN:HB2</td>
<td>11:E:1629:HOH:O</td>
<td>2.21</td>
<td>0.41</td>
</tr>
<tr>
<td>1:E:576:ILE:HG21</td>
<td>1:E:576:ILE:HD13</td>
<td>1.88</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:148:ILE:HG22</td>
<td>1:G:149:ALA:N</td>
<td>2.36</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:524:PRO:CG</td>
<td>1:G:628:GLU:HG3</td>
<td>2.50</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:814:GLN:CG</td>
<td>1:G:818:PHE:CE2</td>
<td>3.03</td>
<td>0.41</td>
</tr>
<tr>
<td>1:G:947:LEU:HD12</td>
<td>1:G:947:LEU:N</td>
<td>2.36</td>
<td>0.41</td>
</tr>
<tr>
<td>2:H:158:LEU:O</td>
<td>2:H:159:ALA:C</td>
<td>2.58</td>
<td>0.41</td>
</tr>
<tr>
<td>1:C:164:PHE:HA</td>
<td>1:C:165:PRO:C</td>
<td>2.42</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:500:ALA:O</td>
<td>1:C:504:LYS:HG3</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:796:LEU:HA</td>
<td>1:C:797:PRO:HA</td>
<td>1.94</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>2:D:150:PHE:HA</td>
<td>2:D:151:PRO:HD3</td>
<td>1.76</td>
<td>0.40</td>
</tr>
<tr>
<td>2:D:32:PHE:O</td>
<td>2:D:291:HIS:HB2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:339:ILE:HG22</td>
<td>1:G:540:THR:OG1</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:561:LYS:HE2</td>
<td>1:G:595:GLU:OE2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:70:HIS:O</td>
<td>1:G:71:TRP:C</td>
<td>2.59</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:1021:ARG:O</td>
<td>1:C:1025:ASP:OD2</td>
<td>2.39</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:424:ILE:O</td>
<td>1:C:425:ARG:C</td>
<td>2.58</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:85:ALA:HA</td>
<td>1:C:114:THR:O</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>2:D:246:ALA:CB</td>
<td>2:D:248:ASP:HB2</td>
<td>2.51</td>
<td>0.40</td>
</tr>
<tr>
<td>2:D:270:LEU:O</td>
<td>2:D:273:GLN:HB2</td>
<td>2.20</td>
<td>0.40</td>
</tr>
<tr>
<td>1:E:135:ALA:HB1</td>
<td>1:E:274:GLU:CG</td>
<td>2.51</td>
<td>0.40</td>
</tr>
<tr>
<td>1:E:9:SER:HA</td>
<td>1:E:43:ARG:O</td>
<td>2.20</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:991:VAL:HG22</td>
<td>1:G:1001:ILE:HG23</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:479:VAL:HG23</td>
<td>1:G:483:GLY:CA</td>
<td>2.48</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:67:GLU:HB3</td>
<td>1:G:68:PRO:HD2</td>
<td>2.02</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:734:LEU:HD12</td>
<td>1:G:734:LEU:C</td>
<td>2.41</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:775:ILE:HD11</td>
<td>1:G:813:VAL:HG11</td>
<td>2.02</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:999:PRO:HD2</td>
<td>1:G:983:GLU:OE1</td>
<td>2.20</td>
<td>0.40</td>
</tr>
<tr>
<td>2:H:199:PHE:CE2</td>
<td>2:H:274:LEU:HD12</td>
<td>2.56</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:489:LEU:HD12</td>
<td>1:A:489:LEU:HA</td>
<td>1.87</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:726:GLU:CG</td>
<td>1:A:727:ILE:N</td>
<td>2.79</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:51:PRO:HG3</td>
<td>1:A:918:MET:HB2</td>
<td>2.02</td>
<td>0.40</td>
</tr>
<tr>
<td>2:B:286:MET:HE1</td>
<td>2:B:312:HIS:ND1</td>
<td>2.37</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:237:PHE:HB3</td>
<td>1:C:248:ILE:O</td>
<td>2.20</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:22:GLN:HG3</td>
<td>1:C:26:PHE:CE2</td>
<td>2.57</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:36:ALA:O</td>
<td>1:C:40:GLU:HG2</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:796:LEU:HD23</td>
<td>1:C:796:LEU:C</td>
<td>2.42</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:972:ASP:HA</td>
<td>1:G:989:ARG:O</td>
<td>2.21</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:930:LYS:NZ</td>
<td>1:A:1058:ALA:O</td>
<td>2.51</td>
<td>0.40</td>
</tr>
<tr>
<td>1:A:58:PRO:HD2</td>
<td>1:A:59:GLU:OE2</td>
<td>2.22</td>
<td>0.40</td>
</tr>
<tr>
<td>2:B:186:LYS:HB3</td>
<td>2:B:188:ASP:OD2</td>
<td>2.22</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:4:ARG:NE</td>
<td>1:C:7:ILE:HD12</td>
<td>2.37</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:76:LYS:HD2</td>
<td>1:C:76:LYS:HA</td>
<td>1.96</td>
<td>0.40</td>
</tr>
<tr>
<td>1:E:765:ASP:O</td>
<td>1:E:776:GLY:N</td>
<td>2.49</td>
<td>0.40</td>
</tr>
<tr>
<td>2:F:316:VAL:HB</td>
<td>2:F:337:LEU:HD23</td>
<td>2.03</td>
<td>0.40</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:G:540:THR:HG22</td>
<td>1:G:541:ALA:N</td>
<td>2.36</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:695:VAL:HG23</td>
<td>1:G:752:LEU:HD22</td>
<td>2.03</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:998:ARG:HA</td>
<td>1:G:999:PRO:C</td>
<td>2.40</td>
<td>0.40</td>
</tr>
<tr>
<td>2:H:176:THR:O</td>
<td>2:H:177:LEU:C</td>
<td>2.57</td>
<td>0.40</td>
</tr>
<tr>
<td>2:B:274:LEU:HD23</td>
<td>2:B:274:LEU:HA</td>
<td>1.66</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:993:LYS:HG2</td>
<td>10:C:1093:U:C5</td>
<td>2.56</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:124:ASP:O</td>
<td>1:C:128:ASP:HB3</td>
<td>2.22</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:677:ARG:O</td>
<td>1:C:680:HIS:HB2</td>
<td>2.22</td>
<td>0.40</td>
</tr>
<tr>
<td>1:C:678:PHE:O</td>
<td>1:C:679:GLN:C</td>
<td>2.59</td>
<td>0.40</td>
</tr>
<tr>
<td>1:E:361:ARG:NH2</td>
<td>1:E:571:ARG:HG2</td>
<td>2.37</td>
<td>0.40</td>
</tr>
<tr>
<td>1:E:695:VAL:CG1</td>
<td>1:E:696:THR:N</td>
<td>2.84</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:220:VAL:O</td>
<td>1:G:281:GLY:HA2</td>
<td>2.22</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:812:GLN:O</td>
<td>1:G:813:VAL:C</td>
<td>2.60</td>
<td>0.40</td>
</tr>
<tr>
<td>1:G:85:ALA:HA</td>
<td>1:G:114:THR:O</td>
<td>2.22</td>
<td>0.40</td>
</tr>
</tbody>
</table>

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Interatomic distance (Å)</th>
<th>Clash overlap (Å)</th>
</tr>
</thead>
</table>

5.3 Torsion angles

5.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Favoured</th>
<th>Allowed</th>
<th>Outliers</th>
<th>Percentiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>1061/1073 (99%)</td>
<td>1015 (96%)</td>
<td>44 (4%)</td>
<td>2 (0%)</td>
<td>49</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1060/1073 (99%)</td>
<td>1005 (95%)</td>
<td>54 (5%)</td>
<td>1 (0%)</td>
<td>53</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>Favoured</th>
<th>Allowed</th>
<th>Outliers</th>
<th>Percentiles</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>1057/1073 (98%)</td>
<td>1013 (96%)</td>
<td>42 (4%)</td>
<td>2 (0%)</td>
<td>49</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1061/1073 (99%)</td>
<td>996 (94%)</td>
<td>59 (6%)</td>
<td>6 (1%)</td>
<td>27</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>377/382 (99%)</td>
<td>348 (92%)</td>
<td>26 (7%)</td>
<td>3 (1%)</td>
<td>21</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>378/382 (99%)</td>
<td>354 (94%)</td>
<td>23 (6%)</td>
<td>1 (0%)</td>
<td>43</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>377/382 (99%)</td>
<td>355 (94%)</td>
<td>21 (6%)</td>
<td>1 (0%)</td>
<td>43</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>377/382 (99%)</td>
<td>346 (92%)</td>
<td>27 (7%)</td>
<td>4 (1%)</td>
<td>16</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>5748/5820 (99%)</td>
<td>5432 (94%)</td>
<td>296 (5%)</td>
<td>20 (0%)</td>
<td>43</td>
</tr>
</tbody>
</table>

All (20) 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>2</td>
<td>B</td>
<td>154</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>154</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>738</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>485</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>975</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>11</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>558</td>
<td>ASP</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>311</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>247</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>798</td>
<td>ALA</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>188</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>368</td>
<td>ALA</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>954</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>739</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>736</td>
<td>ARG</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>10</td>
<td>GLU</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>365</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>88</td>
<td>PRO</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>191</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>871</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>1</td>
<td>A</td>
<td>874/878 (100%)</td>
<td>811 (93%)</td>
<td>63 (7%)</td>
<td>16 12</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>873/878 (99%)</td>
<td>809 (93%)</td>
<td>64 (7%)</td>
<td>15 12</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>870/878 (99%)</td>
<td>818 (94%)</td>
<td>52 (6%)</td>
<td>21 18</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>874/878 (100%)</td>
<td>800 (92%)</td>
<td>74 (8%)</td>
<td>12 8</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>308/310 (99%)</td>
<td>283 (92%)</td>
<td>25 (8%)</td>
<td>13 9</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>309/310 (100%)</td>
<td>283 (92%)</td>
<td>26 (8%)</td>
<td>12 8</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>308/310 (99%)</td>
<td>276 (90%)</td>
<td>32 (10%)</td>
<td>8  4</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>308/310 (99%)</td>
<td>278 (90%)</td>
<td>30 (10%)</td>
<td>9  5</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>4724/4752 (99%)</td>
<td>4358 (92%)</td>
<td>366 (8%)</td>
<td>14 10</td>
</tr>
</tbody>
</table>

All (366) residues with a non-rotameric sidechain are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>1</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>5</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>8</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>38</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>103</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>104</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>174</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>185</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>326</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>343</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>358</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>363</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>412</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>418</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>482</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>509</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>542</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>548</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>556</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>559</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>571</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>591</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>652</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>671</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>675</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>679</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>680</td>
<td>HIS</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>684</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>688</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>700</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>702</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>704</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>706</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>712</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>733</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>734</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>735</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>751</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>752</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>753</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>763</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>784</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>800</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>805</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>815</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>835</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>839</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>855</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>881</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>891</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>912</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>930</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>940</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>950</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>951</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>966</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>967[A]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>967[B]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>992</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1006</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1018</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1020</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1073</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>2</td>
<td>ILE</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>6</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>8</td>
<td>ARG</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>49</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>50</td>
<td>ARG</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>78</td>
<td>GLN</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>B</td>
<td>87</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>125</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>142</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>153</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>154</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>192</td>
<td>PHE</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>215</td>
<td>ARG</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>227</td>
<td>ASP</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>239</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>248</td>
<td>ASP</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>249</td>
<td>ASP</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>261</td>
<td>THR</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>263</td>
<td>ILE</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>324</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>331</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>332</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>333</td>
<td>PHE</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>376</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>379</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>4</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>5</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>38</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>76</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>103</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>174</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>185</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>202</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>236</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>275</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>313</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>321</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>326</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>358</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>363</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>412</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>414</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>416</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>423[A]</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>423[B]</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>426</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>482</td>
<td>THR</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>519</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>548</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>563</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>571</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>645</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>652</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>665</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>671</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>675</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>688</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>689</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>696</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>702</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>706</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>725</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>733</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>735</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>736</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>751</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>752</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>763</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>784</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>805</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>812</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>855</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>880</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>881</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>912</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>950</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>951</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>956</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>966</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>967[A]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>967[B]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1001</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1018</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1020</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1021</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1061</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1063</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1073</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>4</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>2</td>
<td>D</td>
<td>27</td>
<td>VAL</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>47</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>49</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>73</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>87</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>100</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>153</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>154</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>156</td>
<td>MET</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>166</td>
<td>GLU</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>215</td>
<td>ARG</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>224</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>239</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>248</td>
<td>ASP</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>249</td>
<td>ASP</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>261</td>
<td>THR</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>282</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>306</td>
<td>MET</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>324</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>332</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>333</td>
<td>PHE</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>357</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>366</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>376</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>379</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>3</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>5</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>46</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>76</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>103</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>115</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>174</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>185</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>236</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>275</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>299</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>326</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>363</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>412</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>509</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>518</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>542</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>1</td>
<td>E</td>
<td>548</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>571</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>591</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>645[A]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>645[B]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>671</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>675</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>677</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>688</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>696</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>704</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>706</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>733</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>734</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>735</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>750</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>751</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>763</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>784</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>795</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>805</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>838</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>849</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>855</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>912</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>950</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>951</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>956</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>967[A]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>967[B]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>983</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1018</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1020</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1021</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1073</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>2</td>
<td>ILE</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>4</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>25</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>73</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>87</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>125</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>2</td>
<td>F</td>
<td>154</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>166</td>
<td>GLU</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>174</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>175</td>
<td>TRP</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>186</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>190</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>192</td>
<td>PHE</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>230</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>236</td>
<td>ILE</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>238</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>239</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>249</td>
<td>ASP</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>257</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>262</td>
<td>ASP</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>263</td>
<td>ILE</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>269</td>
<td>CYS</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>282</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>306</td>
<td>MET</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>321</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>324</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>332</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>333</td>
<td>PHE</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>366</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>376</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>379</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>4</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>46</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>55</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>59</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>82</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>103</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>119</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>145</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>174</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>185</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>202</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>224</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>230</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>236</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>282</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>303</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>307</td>
<td>SER</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>G</td>
<td>313</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>317</td>
<td>PHE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>326</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>344</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>428</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>479</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>493</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>509</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>519</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>542</td>
<td>TYR</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>548</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>571</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>591</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>645[A]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>645[B]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>648</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>652[A]</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>652[B]</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>675</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>688</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>692</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>696</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>700</td>
<td>MET</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>706</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>708</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>712</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>733</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>735</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>751</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>763</td>
<td>ASP</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>774</td>
<td>LEU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>784</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>810</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>849</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>855</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>880</td>
<td>THR</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>884</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>891</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>912</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>940</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>951</td>
<td>GLU</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>955</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>1</td>
<td>G</td>
<td>956</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>967[A]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>967[B]</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>987</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>991</td>
<td>VAL</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>999</td>
<td>PRO</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1006</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1014</td>
<td>ILE</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1018</td>
<td>SER</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1020</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1021</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1027</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1031</td>
<td>ARG</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1061</td>
<td>LYS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1073</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>2</td>
<td>ILE</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>3</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>6</td>
<td>LEU</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>18</td>
<td>ARG</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>50</td>
<td>ARG</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>104</td>
<td>ARG</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>125</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>128</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>131</td>
<td>CYS</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>154</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>166</td>
<td>GLU</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>174</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>192</td>
<td>PHE</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>215</td>
<td>ARG</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>218</td>
<td>ILE</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>239</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>244</td>
<td>ASP</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>248</td>
<td>ASP</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>249</td>
<td>ASP</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>257</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>261</td>
<td>THR</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>279</td>
<td>SER</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>282</td>
<td>LYS</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>284</td>
<td>VAL</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>306</td>
<td>MET</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>324</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>332</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>2</td>
<td>H</td>
<td>333</td>
<td>PHE</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>376</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>379</td>
<td>LYS</td>
</tr>
</tbody>
</table>

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (78) such sidechains are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>105</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>266</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>679</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>689</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>784</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>803</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>812</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>814</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>835</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>936</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>987</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>992</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1000</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1035</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1055</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1071</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>51</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>154</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>324</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>105</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>266</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>457</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>679</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>689</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>784</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>942</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>992</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1000</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1035</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1055</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1071</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>51</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>78</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>291</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>2</td>
<td>D</td>
<td>324</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>105</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>266</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>679</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>689</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>784</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>803</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>936</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>987</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>992</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1000</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1002</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1035</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1055</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1071</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>51</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>78</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>154</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>273</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>324</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>351</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>105</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>266</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>523</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>679</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>689</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>784</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>803</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>814</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>835</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>936</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>987</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>992</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1000</td>
<td>HIS</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1035</td>
<td>GLN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1055</td>
<td>ASN</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1071</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>51</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>78</td>
<td>GLN</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>154</td>
<td>ASN</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>291</td>
<td>HIS</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>311</td>
<td>ASN</td>
</tr>
</tbody>
</table>

Continued on next page...
5.3.3 RNA

There are no RNA molecules in this entry.

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

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 86 ligands modelled in this entry, 61 are monoatomic - leaving 25 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Bond lengths</th>
<th>Bond angles</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Counts</td>
<td>RMSZ</td>
</tr>
<tr>
<td>5</td>
<td>PO4</td>
<td>A</td>
<td>1078</td>
<td>3</td>
<td>4,4,4</td>
<td>1.68</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>A</td>
<td>1087</td>
<td>3</td>
<td>25,29,29</td>
<td>2.12</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>A</td>
<td>1088</td>
<td>3</td>
<td>25,29,29</td>
<td>2.27</td>
</tr>
<tr>
<td>8</td>
<td>ORN</td>
<td>A</td>
<td>1089</td>
<td>-</td>
<td>3,8,8</td>
<td>0.75</td>
</tr>
<tr>
<td>9</td>
<td>NET</td>
<td>A</td>
<td>1090</td>
<td>-</td>
<td>8,8,8</td>
<td>0.70</td>
</tr>
<tr>
<td>10</td>
<td>U</td>
<td>A</td>
<td>1091</td>
<td>-</td>
<td>17,22,22</td>
<td>1.50</td>
</tr>
<tr>
<td>5</td>
<td>PO4</td>
<td>C</td>
<td>1078</td>
<td>3</td>
<td>4,4,4</td>
<td>1.90</td>
</tr>
<tr>
<td>5</td>
<td>PO4</td>
<td>C</td>
<td>1088</td>
<td>-</td>
<td>4,4,4</td>
<td>2.09</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>C</td>
<td>1089</td>
<td>3</td>
<td>25,29,29</td>
<td>1.21</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>C</td>
<td>1090</td>
<td>3</td>
<td>25,29,29</td>
<td>1.40</td>
</tr>
<tr>
<td>8</td>
<td>ORN</td>
<td>C</td>
<td>1091</td>
<td>-</td>
<td>3,8,8</td>
<td>0.58</td>
</tr>
</tbody>
</table>
In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. ‘-’ means no outliers of that kind were identified.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Chirals</th>
<th>Torsions</th>
<th>Rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>PO4</td>
<td>A</td>
<td>1078</td>
<td>3</td>
<td>-</td>
<td>0/0/0/0</td>
<td>0/0/0/0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>A</td>
<td>1087</td>
<td>3</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>8</td>
<td>ORN</td>
<td>A</td>
<td>1089</td>
<td>3</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>9</td>
<td>NET</td>
<td>A</td>
<td>1090</td>
<td>-</td>
<td>-</td>
<td>0/12/12/12</td>
<td>0/0/0/0</td>
</tr>
<tr>
<td>10</td>
<td>U</td>
<td>A</td>
<td>1091</td>
<td>-</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>5</td>
<td>PO4</td>
<td>C</td>
<td>1078</td>
<td>3</td>
<td>-</td>
<td>0/0/0/0</td>
<td>0/0/0/0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>C</td>
<td>1089</td>
<td>3</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>8</td>
<td>ORN</td>
<td>C</td>
<td>1091</td>
<td>-</td>
<td>-</td>
<td>0/12/12/12</td>
<td>0/0/0/0</td>
</tr>
<tr>
<td>9</td>
<td>NET</td>
<td>C</td>
<td>1092</td>
<td>-</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>10</td>
<td>U</td>
<td>C</td>
<td>1093</td>
<td>-</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>5</td>
<td>PO4</td>
<td>E</td>
<td>1078</td>
<td>3</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>E</td>
<td>1089</td>
<td>3</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>8</td>
<td>ORN</td>
<td>E</td>
<td>1091</td>
<td>-</td>
<td>-</td>
<td>0/12/12/12</td>
<td>0/0/0/0</td>
</tr>
<tr>
<td>9</td>
<td>NET</td>
<td>E</td>
<td>1092</td>
<td>-</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>10</td>
<td>U</td>
<td>E</td>
<td>1093</td>
<td>-</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>5</td>
<td>PO4</td>
<td>G</td>
<td>1078</td>
<td>3</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Chirals</th>
<th>Torsions</th>
<th>Rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>ADP</td>
<td>G</td>
<td>1089</td>
<td>3</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>G</td>
<td>1090</td>
<td>3</td>
<td>-</td>
<td>0/12/32/32</td>
<td>0/3/3/3</td>
</tr>
<tr>
<td>8</td>
<td>ORN</td>
<td>G</td>
<td>1091</td>
<td>-</td>
<td>-</td>
<td>0/4/8/8</td>
<td>0/0/0/0</td>
</tr>
<tr>
<td>9</td>
<td>NET</td>
<td>G</td>
<td>1092</td>
<td>-</td>
<td>-</td>
<td>0/12/12/12</td>
<td>0/0/0/0</td>
</tr>
<tr>
<td>10</td>
<td>U</td>
<td>G</td>
<td>1093</td>
<td>-</td>
<td>-</td>
<td>0/6/26/26</td>
<td>0/2/2/2</td>
</tr>
</tbody>
</table>

All (49) bond length outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>G</td>
<td>1089</td>
<td>ADP</td>
<td>O4'-C1'</td>
<td>-2.99</td>
<td>1.37</td>
<td>1.41</td>
</tr>
<tr>
<td>10</td>
<td>A</td>
<td>1091</td>
<td>U</td>
<td>C6-C5</td>
<td>-2.94</td>
<td>1.31</td>
<td>1.38</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>1088</td>
<td>PO4</td>
<td>P-O2</td>
<td>-2.89</td>
<td>1.44</td>
<td>1.54</td>
</tr>
<tr>
<td>10</td>
<td>E</td>
<td>1093</td>
<td>U</td>
<td>C6-C5</td>
<td>-2.88</td>
<td>1.31</td>
<td>1.38</td>
</tr>
<tr>
<td>10</td>
<td>G</td>
<td>1093</td>
<td>U</td>
<td>C6-C5</td>
<td>-2.85</td>
<td>1.31</td>
<td>1.38</td>
</tr>
<tr>
<td>5</td>
<td>E</td>
<td>1078</td>
<td>PO4</td>
<td>P-O3</td>
<td>-2.75</td>
<td>1.44</td>
<td>1.54</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1090</td>
<td>ADP</td>
<td>O4'-C1'</td>
<td>-2.50</td>
<td>1.37</td>
<td>1.41</td>
</tr>
<tr>
<td>5</td>
<td>G</td>
<td>1078</td>
<td>PO4</td>
<td>P-O2</td>
<td>-2.49</td>
<td>1.45</td>
<td>1.54</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>1078</td>
<td>PO4</td>
<td>P-O2</td>
<td>-2.48</td>
<td>1.45</td>
<td>1.54</td>
</tr>
<tr>
<td>5</td>
<td>E</td>
<td>1078</td>
<td>PO4</td>
<td>P-O2</td>
<td>-2.45</td>
<td>1.45</td>
<td>1.54</td>
</tr>
<tr>
<td>5</td>
<td>A</td>
<td>1078</td>
<td>PO4</td>
<td>P-O1</td>
<td>-2.26</td>
<td>1.45</td>
<td>1.50</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>1078</td>
<td>PO4</td>
<td>P-O3</td>
<td>-2.20</td>
<td>1.46</td>
<td>1.54</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>1088</td>
<td>PO4</td>
<td>P-O3</td>
<td>-2.14</td>
<td>1.46</td>
<td>1.54</td>
</tr>
<tr>
<td>5</td>
<td>G</td>
<td>1078</td>
<td>PO4</td>
<td>P-O3</td>
<td>-2.03</td>
<td>1.47</td>
<td>1.54</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>1088</td>
<td>PO4</td>
<td>P-O4</td>
<td>-2.00</td>
<td>1.47</td>
<td>1.54</td>
</tr>
<tr>
<td>10</td>
<td>C</td>
<td>1093</td>
<td>U</td>
<td>C6-N1</td>
<td>2.01</td>
<td>1.38</td>
<td>1.35</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1089</td>
<td>ADP</td>
<td>C2-N1</td>
<td>2.13</td>
<td>1.37</td>
<td>1.33</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1089</td>
<td>ADP</td>
<td>O2'-C2'</td>
<td>2.15</td>
<td>1.48</td>
<td>1.43</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1090</td>
<td>ADP</td>
<td>O2'-C2'</td>
<td>2.21</td>
<td>1.48</td>
<td>1.43</td>
</tr>
<tr>
<td>10</td>
<td>E</td>
<td>1093</td>
<td>U</td>
<td>C6-N1</td>
<td>2.22</td>
<td>1.38</td>
<td>1.35</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1089</td>
<td>ADP</td>
<td>PB-O3A</td>
<td>2.24</td>
<td>1.63</td>
<td>1.60</td>
</tr>
<tr>
<td>10</td>
<td>A</td>
<td>1091</td>
<td>U</td>
<td>C6-N1</td>
<td>2.31</td>
<td>1.38</td>
<td>1.35</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1090</td>
<td>ADP</td>
<td>C2-N1</td>
<td>2.44</td>
<td>1.38</td>
<td>1.33</td>
</tr>
<tr>
<td>7</td>
<td>C</td>
<td>1090</td>
<td>ADP</td>
<td>O3'-C3'</td>
<td>2.45</td>
<td>1.49</td>
<td>1.43</td>
</tr>
<tr>
<td>7</td>
<td>C</td>
<td>1089</td>
<td>ADP</td>
<td>C2-N1</td>
<td>2.49</td>
<td>1.38</td>
<td>1.33</td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>1087</td>
<td>ADP</td>
<td>C2-N1</td>
<td>2.55</td>
<td>1.38</td>
<td>1.33</td>
</tr>
<tr>
<td>10</td>
<td>G</td>
<td>1093</td>
<td>U</td>
<td>P-OP3</td>
<td>2.57</td>
<td>1.65</td>
<td>1.54</td>
</tr>
<tr>
<td>10</td>
<td>G</td>
<td>1093</td>
<td>U</td>
<td>C6-N1</td>
<td>2.58</td>
<td>1.39</td>
<td>1.35</td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>1087</td>
<td>ADP</td>
<td>O3'-C3'</td>
<td>2.63</td>
<td>1.49</td>
<td>1.43</td>
</tr>
<tr>
<td>10</td>
<td>A</td>
<td>1091</td>
<td>U</td>
<td>P-OP3</td>
<td>2.66</td>
<td>1.65</td>
<td>1.54</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1089</td>
<td>ADP</td>
<td>O3'-C3'</td>
<td>2.66</td>
<td>1.49</td>
<td>1.43</td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>1087</td>
<td>ADP</td>
<td>PB-O3A</td>
<td>2.72</td>
<td>1.64</td>
<td>1.60</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Z</th>
<th>Observed(Å)</th>
<th>Ideal(Å)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>G</td>
<td>1090</td>
<td>ADP</td>
<td>O3'-C3'</td>
<td>2.75</td>
<td>1.49</td>
<td>1.43</td>
</tr>
<tr>
<td>10</td>
<td>C</td>
<td>1093</td>
<td>U</td>
<td>P-OP3</td>
<td>2.75</td>
<td>1.65</td>
<td>1.54</td>
</tr>
<tr>
<td>10</td>
<td>E</td>
<td>1093</td>
<td>U</td>
<td>P-OP3</td>
<td>2.75</td>
<td>1.65</td>
<td>1.54</td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>1088</td>
<td>ADP</td>
<td>PB-O3A</td>
<td>2.89</td>
<td>1.64</td>
<td>1.60</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1089</td>
<td>ADP</td>
<td>O2'-C2'</td>
<td>2.94</td>
<td>1.50</td>
<td>1.43</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1090</td>
<td>ADP</td>
<td>O3'-C3'</td>
<td>2.97</td>
<td>1.50</td>
<td>1.43</td>
</tr>
<tr>
<td>7</td>
<td>C</td>
<td>1089</td>
<td>ADP</td>
<td>O2'-C2'</td>
<td>3.00</td>
<td>1.50</td>
<td>1.43</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1089</td>
<td>ADP</td>
<td>PB-O3A</td>
<td>3.07</td>
<td>1.64</td>
<td>1.60</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1090</td>
<td>ADP</td>
<td>O2'-C2'</td>
<td>3.13</td>
<td>1.50</td>
<td>1.43</td>
</tr>
<tr>
<td>10</td>
<td>C</td>
<td>1093</td>
<td>U</td>
<td>C4-N3</td>
<td>3.67</td>
<td>1.39</td>
<td>1.33</td>
</tr>
<tr>
<td>10</td>
<td>A</td>
<td>1091</td>
<td>U</td>
<td>C4-N3</td>
<td>3.67</td>
<td>1.39</td>
<td>1.33</td>
</tr>
<tr>
<td>10</td>
<td>E</td>
<td>1093</td>
<td>U</td>
<td>C4-N3</td>
<td>3.68</td>
<td>1.39</td>
<td>1.33</td>
</tr>
<tr>
<td>10</td>
<td>G</td>
<td>1093</td>
<td>U</td>
<td>C4-N3</td>
<td>3.82</td>
<td>1.39</td>
<td>1.33</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1090</td>
<td>ADP</td>
<td>PB-O3A</td>
<td>4.73</td>
<td>1.67</td>
<td>1.60</td>
</tr>
<tr>
<td>7</td>
<td>C</td>
<td>1090</td>
<td>ADP</td>
<td>PB-O3A</td>
<td>4.83</td>
<td>1.67</td>
<td>1.60</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1090</td>
<td>ADP</td>
<td>PB-O3A</td>
<td>5.13</td>
<td>1.67</td>
<td>1.60</td>
</tr>
</tbody>
</table>

All (33) 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>10</td>
<td>E</td>
<td>1093</td>
<td>U</td>
<td>OP3-P-O5'</td>
<td>-4.97</td>
<td>93.51</td>
<td>106.73</td>
</tr>
<tr>
<td>10</td>
<td>E</td>
<td>1093</td>
<td>U</td>
<td>C5-C4-N3</td>
<td>-4.53</td>
<td>112.66</td>
<td>123.17</td>
</tr>
<tr>
<td>10</td>
<td>G</td>
<td>1093</td>
<td>U</td>
<td>C5-C4-N3</td>
<td>-4.33</td>
<td>112.89</td>
<td>123.17</td>
</tr>
<tr>
<td>10</td>
<td>C</td>
<td>1093</td>
<td>U</td>
<td>C5-C4-N3</td>
<td>-4.40</td>
<td>112.95</td>
<td>123.17</td>
</tr>
<tr>
<td>10</td>
<td>G</td>
<td>1093</td>
<td>U</td>
<td>OP3-P-O5'</td>
<td>-4.36</td>
<td>95.14</td>
<td>106.73</td>
</tr>
<tr>
<td>10</td>
<td>A</td>
<td>1091</td>
<td>U</td>
<td>C5-C4-N3</td>
<td>-4.05</td>
<td>113.76</td>
<td>123.17</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1090</td>
<td>ADP</td>
<td>C2'-C3'-C4'</td>
<td>-2.45</td>
<td>97.91</td>
<td>102.62</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1090</td>
<td>ADP</td>
<td>O4'-C4'-C5'</td>
<td>-2.35</td>
<td>101.57</td>
<td>109.39</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1089</td>
<td>ADP</td>
<td>C1'-N9-C4</td>
<td>-2.34</td>
<td>122.58</td>
<td>126.64</td>
</tr>
<tr>
<td>5</td>
<td>A</td>
<td>1078</td>
<td>PO4</td>
<td>O2-P-O1</td>
<td>-2.21</td>
<td>101.49</td>
<td>110.93</td>
</tr>
<tr>
<td>7</td>
<td>C</td>
<td>1089</td>
<td>ADP</td>
<td>N6-C6-N1</td>
<td>-2.12</td>
<td>114.17</td>
<td>118.57</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1089</td>
<td>ADP</td>
<td>O4'-C4'-C3'</td>
<td>-2.01</td>
<td>101.17</td>
<td>105.15</td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>1088</td>
<td>ADP</td>
<td>O2'-C2'-C3'</td>
<td>2.04</td>
<td>118.37</td>
<td>111.83</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1090</td>
<td>ADP</td>
<td>C4-C5-N7</td>
<td>2.05</td>
<td>111.39</td>
<td>109.41</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1089</td>
<td>ADP</td>
<td>O3'-C3'-C2'</td>
<td>2.10</td>
<td>118.54</td>
<td>111.83</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1090</td>
<td>ADP</td>
<td>O3'-C3'-C2'</td>
<td>2.20</td>
<td>118.89</td>
<td>111.83</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1090</td>
<td>ADP</td>
<td>O2'-C2'-C3'</td>
<td>2.25</td>
<td>119.05</td>
<td>111.83</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1089</td>
<td>ADP</td>
<td>C4-C5-N7</td>
<td>2.27</td>
<td>111.61</td>
<td>109.41</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1089</td>
<td>ADP</td>
<td>O3'-C3'-C2'</td>
<td>2.28</td>
<td>119.14</td>
<td>111.83</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1090</td>
<td>ADP</td>
<td>C4-C5-N7</td>
<td>2.44</td>
<td>111.77</td>
<td>109.41</td>
</tr>
<tr>
<td>10</td>
<td>E</td>
<td>1093</td>
<td>U</td>
<td>OP2-P-O5'</td>
<td>2.45</td>
<td>113.24</td>
<td>106.73</td>
</tr>
<tr>
<td>10</td>
<td>E</td>
<td>1093</td>
<td>U</td>
<td>O5'-P-OP1</td>
<td>2.58</td>
<td>113.71</td>
<td>106.47</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>7</td>
<td>C</td>
<td>1090</td>
<td>ADP</td>
<td>O3'-C3'-C2'</td>
<td>2.68</td>
<td>120.40</td>
<td>111.83</td>
</tr>
<tr>
<td>7</td>
<td>C</td>
<td>1089</td>
<td>ADP</td>
<td>O2'-C2'-C3'</td>
<td>2.71</td>
<td>120.51</td>
<td>111.83</td>
</tr>
<tr>
<td>10</td>
<td>G</td>
<td>1093</td>
<td>U</td>
<td>O4'-C1'-N1</td>
<td>2.80</td>
<td>113.61</td>
<td>108.05</td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>1088</td>
<td>ADP</td>
<td>C5-C6-N6</td>
<td>2.94</td>
<td>126.47</td>
<td>120.47</td>
</tr>
<tr>
<td>10</td>
<td>G</td>
<td>1093</td>
<td>U</td>
<td>OP2-P-O5'</td>
<td>3.26</td>
<td>115.41</td>
<td>106.73</td>
</tr>
<tr>
<td>7</td>
<td>G</td>
<td>1089</td>
<td>ADP</td>
<td>N6-C6-N1</td>
<td>3.26</td>
<td>125.34</td>
<td>118.57</td>
</tr>
<tr>
<td>7</td>
<td>C</td>
<td>1089</td>
<td>ADP</td>
<td>C5-C6-N6</td>
<td>3.77</td>
<td>128.16</td>
<td>120.47</td>
</tr>
<tr>
<td>10</td>
<td>A</td>
<td>1091</td>
<td>U</td>
<td>C4-N3-C2</td>
<td>14.65</td>
<td>126.74</td>
<td>114.14</td>
</tr>
<tr>
<td>10</td>
<td>C</td>
<td>1093</td>
<td>U</td>
<td>C4-N3-C2</td>
<td>14.68</td>
<td>126.78</td>
<td>114.14</td>
</tr>
<tr>
<td>10</td>
<td>G</td>
<td>1093</td>
<td>U</td>
<td>C4-N3-C2</td>
<td>15.52</td>
<td>127.50</td>
<td>114.14</td>
</tr>
<tr>
<td>10</td>
<td>E</td>
<td>1093</td>
<td>U</td>
<td>C4-N3-C2</td>
<td>15.88</td>
<td>127.81</td>
<td>114.14</td>
</tr>
</tbody>
</table>

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

16 monomers are involved in 22 short contacts:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Clashes</th>
<th>Symm-Clashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>A</td>
<td>1087</td>
<td>ADP</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>1088</td>
<td>ADP</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>A</td>
<td>1090</td>
<td>NET</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>A</td>
<td>1091</td>
<td>U</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>C</td>
<td>1078</td>
<td>PO4</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>C</td>
<td>1091</td>
<td>ORN</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>C</td>
<td>1092</td>
<td>NET</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>C</td>
<td>1093</td>
<td>U</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1089</td>
<td>ADP</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>E</td>
<td>1090</td>
<td>ADP</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>E</td>
<td>1091</td>
<td>ORN</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>E</td>
<td>1092</td>
<td>NET</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>E</td>
<td>1093</td>
<td>U</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>G</td>
<td>1091</td>
<td>ORN</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>G</td>
<td>1092</td>
<td>NET</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>G</td>
<td>1093</td>
<td>U</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

5.7 Other polymers

There are no such residues in this entry.
5.8 Polymer linkage issues

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

6.1  Protein, DNA and RNA chains

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Analysed</th>
<th>&lt;RSRZ&gt;</th>
<th>#RSRZ&gt;2</th>
<th>OWAB(Å²)</th>
<th>Q&lt;0.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>1058/1073 (98%)</td>
<td>-0.41</td>
<td>23 (2%)</td>
<td>62 67</td>
<td>17, 33, 73, 100</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1058/1073 (98%)</td>
<td>-0.28</td>
<td>25 (2%)</td>
<td>59 64</td>
<td>18, 35, 81, 100</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1058/1073 (98%)</td>
<td>-0.35</td>
<td>20 (1%)</td>
<td>66 71</td>
<td>17, 31, 75, 100</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1058/1073 (98%)</td>
<td>-0.11</td>
<td>40 (3%)</td>
<td>40 47</td>
<td>20, 42, 84, 100</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>379/382 (99%)</td>
<td>0.02</td>
<td>16 (4%)</td>
<td>36 43</td>
<td>21, 48, 87, 100</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>379/382 (99%)</td>
<td>-0.04</td>
<td>11 (2%)</td>
<td>51 58</td>
<td>21, 40, 78, 100</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>379/382 (99%)</td>
<td>0.17</td>
<td>24 (6%)</td>
<td>20 25</td>
<td>20, 47, 92, 100</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>379/382 (99%)</td>
<td>0.47</td>
<td>36 (9%)</td>
<td>8 11</td>
<td>33, 63, 97, 100</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>5748/5820 (98%)</td>
<td>-0.17</td>
<td>195 (3%)</td>
<td>45 52</td>
<td>17, 38, 84, 100</td>
</tr>
</tbody>
</table>

All (195) RSRZ outliers are listed below:

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>RSRZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>C</td>
<td>1</td>
<td>MET</td>
<td>8.3</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1</td>
<td>MET</td>
<td>8.0</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>1</td>
<td>MET</td>
<td>7.4</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1</td>
<td>MET</td>
<td>6.9</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>697</td>
<td>ALA</td>
<td>5.4</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>738</td>
<td>PHE</td>
<td>5.4</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>697</td>
<td>ALA</td>
<td>5.2</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>2</td>
<td>ILE</td>
<td>5.1</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>696</td>
<td>THR</td>
<td>4.8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>698</td>
<td>ILE</td>
<td>4.7</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>380</td>
<td>THR</td>
<td>4.6</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>710</td>
<td>TYR</td>
<td>4.4</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>695</td>
<td>VAL</td>
<td>4.4</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>238</td>
<td>LEU</td>
<td>4.2</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>698</td>
<td>ILE</td>
<td>4.2</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>737</td>
<td>TYR</td>
<td>4.2</td>
</tr>
</tbody>
</table>
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>1</td>
<td>G</td>
<td>738</td>
<td>PHE</td>
<td>4.2</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>237</td>
<td>PHE</td>
<td>4.2</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>153</td>
<td>LEU</td>
<td>4.2</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>2</td>
<td>ILE</td>
<td>4.2</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>740</td>
<td>THR</td>
<td>4.1</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>700</td>
<td>MET</td>
<td>4.1</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>152</td>
<td>GLY</td>
<td>4.1</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>268</td>
<td>ILE</td>
<td>4.0</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>2</td>
<td>ILE</td>
<td>4.0</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>740</td>
<td>THR</td>
<td>4.0</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>697</td>
<td>ALA</td>
<td>4.0</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>739</td>
<td>GLN</td>
<td>4.0</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>696</td>
<td>THR</td>
<td>3.9</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>2</td>
<td>ILE</td>
<td>3.9</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>250</td>
<td>TYR</td>
<td>3.9</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>701</td>
<td>ALA</td>
<td>3.8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>737</td>
<td>TYR</td>
<td>3.8</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>737</td>
<td>TYR</td>
<td>3.8</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>157</td>
<td>ASP</td>
<td>3.8</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>741</td>
<td>ALA</td>
<td>3.8</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>696</td>
<td>THR</td>
<td>3.8</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>250</td>
<td>TYR</td>
<td>3.8</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>739</td>
<td>GLN</td>
<td>3.7</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>724</td>
<td>ALA</td>
<td>3.7</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>557</td>
<td>THR</td>
<td>3.7</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>738</td>
<td>PHE</td>
<td>3.6</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>705</td>
<td>ALA</td>
<td>3.6</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>680</td>
<td>HIS</td>
<td>3.6</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>380</td>
<td>THR</td>
<td>3.5</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>716</td>
<td>PRO</td>
<td>3.5</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>150</td>
<td>PHE</td>
<td>3.5</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>697</td>
<td>ALA</td>
<td>3.5</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>741</td>
<td>ALA</td>
<td>3.5</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>750</td>
<td>VAL</td>
<td>3.5</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>269</td>
<td>CYS</td>
<td>3.4</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>201</td>
<td>ALA</td>
<td>3.4</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>698</td>
<td>ILE</td>
<td>3.4</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>268</td>
<td>ILE</td>
<td>3.4</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>160</td>
<td>LYS</td>
<td>3.4</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>702</td>
<td>VAL</td>
<td>3.3</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>246</td>
<td>ALA</td>
<td>3.3</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>31</td>
<td>VAL</td>
<td>3.3</td>
</tr>
</tbody>
</table>

Continued on next page...
<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>RSRZ</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>E</td>
<td>738</td>
<td>PHE</td>
<td>3.3</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>739</td>
<td>GLN</td>
<td>3.2</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>341</td>
<td>GLY</td>
<td>3.2</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>701</td>
<td>ALA</td>
<td>3.2</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>156</td>
<td>MET</td>
<td>3.2</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>379</td>
<td>LYS</td>
<td>3.2</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>734</td>
<td>LEU</td>
<td>3.2</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>732</td>
<td>ALA</td>
<td>3.2</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>165</td>
<td>ALA</td>
<td>3.2</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>156</td>
<td>MET</td>
<td>3.2</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>2</td>
<td>PRO</td>
<td>3.2</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>701</td>
<td>ALA</td>
<td>3.1</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>238</td>
<td>LEU</td>
<td>3.1</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>703</td>
<td>GLU</td>
<td>3.1</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>152</td>
<td>GLY</td>
<td>3.1</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>732</td>
<td>ALA</td>
<td>3.1</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>342</td>
<td>GLY</td>
<td>3.0</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>741</td>
<td>ALA</td>
<td>3.0</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>151</td>
<td>PRO</td>
<td>3.0</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>700</td>
<td>MET</td>
<td>3.0</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>740</td>
<td>THR</td>
<td>3.0</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>155</td>
<td>GLY</td>
<td>2.9</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>248</td>
<td>ASP</td>
<td>2.9</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>138</td>
<td>PRO</td>
<td>2.9</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>739</td>
<td>GLN</td>
<td>2.9</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>559</td>
<td>ARG</td>
<td>2.9</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>700</td>
<td>MET</td>
<td>2.9</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>701</td>
<td>ALA</td>
<td>2.9</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>147</td>
<td>ALA</td>
<td>2.9</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>805</td>
<td>ILE</td>
<td>2.9</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>246</td>
<td>ALA</td>
<td>2.9</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>320</td>
<td>THR</td>
<td>2.9</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>750</td>
<td>VAL</td>
<td>2.8</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>246</td>
<td>ALA</td>
<td>2.8</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>703</td>
<td>GLU</td>
<td>2.8</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>696</td>
<td>THR</td>
<td>2.8</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>248</td>
<td>ASP</td>
<td>2.8</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>380</td>
<td>THR</td>
<td>2.8</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>735</td>
<td>ARG</td>
<td>2.8</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>142</td>
<td>LEU</td>
<td>2.8</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>702</td>
<td>VAL</td>
<td>2.8</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>250</td>
<td>TYR</td>
<td>2.8</td>
</tr>
</tbody>
</table>
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>1</td>
<td>A</td>
<td>724</td>
<td>ALA</td>
<td>2.7</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>136</td>
<td>ASP</td>
<td>2.7</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>155</td>
<td>GLY</td>
<td>2.7</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>558</td>
<td>ASP</td>
<td>2.7</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>703</td>
<td>GLU</td>
<td>2.7</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>675</td>
<td>ARG</td>
<td>2.7</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>228</td>
<td>VAL</td>
<td>2.7</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>805</td>
<td>ILE</td>
<td>2.7</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>231</td>
<td>MET</td>
<td>2.7</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>1073</td>
<td>LYS</td>
<td>2.7</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>150</td>
<td>PHE</td>
<td>2.7</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>683</td>
<td>GLU</td>
<td>2.7</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>154</td>
<td>ASN</td>
<td>2.7</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>731</td>
<td>GLU</td>
<td>2.6</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>233</td>
<td>PRO</td>
<td>2.6</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>166</td>
<td>GLU</td>
<td>2.6</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>159</td>
<td>ALA</td>
<td>2.6</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>700</td>
<td>MET</td>
<td>2.6</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>153</td>
<td>LEU</td>
<td>2.6</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>675</td>
<td>ARG</td>
<td>2.6</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>695</td>
<td>VAL</td>
<td>2.6</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>377</td>
<td>TYR</td>
<td>2.6</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>53</td>
<td>VAL</td>
<td>2.6</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>268</td>
<td>ILE</td>
<td>2.6</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>733</td>
<td>ASP</td>
<td>2.6</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>737</td>
<td>TYR</td>
<td>2.5</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>154</td>
<td>ASN</td>
<td>2.5</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>676</td>
<td>GLU</td>
<td>2.5</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>248</td>
<td>ASP</td>
<td>2.5</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>248</td>
<td>ASP</td>
<td>2.5</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>250</td>
<td>TYR</td>
<td>2.5</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>266</td>
<td>PHE</td>
<td>2.5</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>479</td>
<td>VAL</td>
<td>2.5</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>750</td>
<td>VAL</td>
<td>2.5</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>693</td>
<td>ALA</td>
<td>2.5</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>736</td>
<td>ARG</td>
<td>2.5</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>154</td>
<td>ASN</td>
<td>2.5</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>377</td>
<td>TYR</td>
<td>2.5</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>156</td>
<td>MET</td>
<td>2.4</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>680</td>
<td>HIS</td>
<td>2.4</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>735</td>
<td>ARG</td>
<td>2.4</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>378</td>
<td>ARG</td>
<td>2.4</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>1</td>
<td>C</td>
<td>699</td>
<td>GLU</td>
<td>2.4</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>1073</td>
<td>LYS</td>
<td>2.4</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>751</td>
<td>LEU</td>
<td>2.3</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>166</td>
<td>GLU</td>
<td>2.3</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>189</td>
<td>GLU</td>
<td>2.3</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>702</td>
<td>VAL</td>
<td>2.3</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>733</td>
<td>ASP</td>
<td>2.3</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>188</td>
<td>ASP</td>
<td>2.3</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>750</td>
<td>VAL</td>
<td>2.3</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>165</td>
<td>ALA</td>
<td>2.3</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>840</td>
<td>ILE</td>
<td>2.3</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>55</td>
<td>LEU</td>
<td>2.3</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>368</td>
<td>ALA</td>
<td>2.3</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>705</td>
<td>ALA</td>
<td>2.3</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>269</td>
<td>CYS</td>
<td>2.3</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>148</td>
<td>ARG</td>
<td>2.3</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>319</td>
<td>ALA</td>
<td>2.2</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>164</td>
<td>THR</td>
<td>2.2</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>266</td>
<td>PHE</td>
<td>2.2</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>343</td>
<td>ARG</td>
<td>2.2</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>707</td>
<td>GLU</td>
<td>2.2</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>695</td>
<td>VAL</td>
<td>2.2</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>230</td>
<td>LYS</td>
<td>2.2</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>699</td>
<td>GLU</td>
<td>2.2</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>320</td>
<td>THR</td>
<td>2.2</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>2</td>
<td>PRO</td>
<td>2.2</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>741</td>
<td>ALA</td>
<td>2.2</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>52</td>
<td>ILE</td>
<td>2.1</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>695</td>
<td>VAL</td>
<td>2.1</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>682</td>
<td>VAL</td>
<td>2.1</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>740</td>
<td>THR</td>
<td>2.1</td>
</tr>
<tr>
<td>2</td>
<td>D</td>
<td>246</td>
<td>ALA</td>
<td>2.1</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>255</td>
<td>ILE</td>
<td>2.1</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>678</td>
<td>PHE</td>
<td>2.1</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>683</td>
<td>GLU</td>
<td>2.1</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>751</td>
<td>LEU</td>
<td>2.1</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>376</td>
<td>GLN</td>
<td>2.1</td>
</tr>
<tr>
<td>1</td>
<td>E</td>
<td>1073</td>
<td>LYS</td>
<td>2.1</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>268</td>
<td>ILE</td>
<td>2.1</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>205</td>
<td>ILE</td>
<td>2.1</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>734</td>
<td>LEU</td>
<td>2.1</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>736</td>
<td>ARG</td>
<td>2.1</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>2</td>
<td>B</td>
<td>151</td>
<td>PRO</td>
<td>2.1</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>343</td>
<td>ARG</td>
<td>2.1</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>162</td>
<td>VAL</td>
<td>2.1</td>
</tr>
<tr>
<td>1</td>
<td>G</td>
<td>686</td>
<td>LYS</td>
<td>2.1</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>271</td>
<td>GLY</td>
<td>2.1</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>238</td>
<td>LEU</td>
<td>2.0</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>261</td>
<td>THR</td>
<td>2.0</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>192</td>
<td>PHE</td>
<td>2.0</td>
</tr>
<tr>
<td>2</td>
<td>F</td>
<td>247</td>
<td>PRO</td>
<td>2.0</td>
</tr>
<tr>
<td>2</td>
<td>H</td>
<td>30</td>
<td>VAL</td>
<td>2.0</td>
</tr>
<tr>
<td>1</td>
<td>C</td>
<td>111</td>
<td>PHE</td>
<td>2.0</td>
</tr>
</tbody>
</table>

6.2 Non-standard residues in protein, DNA, RNA chains (i)

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

6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

6.4 Ligands (i)

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, 95\textsuperscript{th} 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>RSCE</th>
<th>RSR</th>
<th>B-factors(Å\textsuperscript{2})</th>
<th>Q&lt;0.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>CL</td>
<td>E</td>
<td>1084</td>
<td>1/1</td>
<td>0.82</td>
<td>0.15</td>
<td>74,74,74,74</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>G</td>
<td>1084</td>
<td>1/1</td>
<td>0.83</td>
<td>0.22</td>
<td>72,72,72,72</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>H</td>
<td>385</td>
<td>1/1</td>
<td>0.84</td>
<td>0.07</td>
<td>82,82,82,82</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>C</td>
<td>1083</td>
<td>1/1</td>
<td>0.91</td>
<td>0.16</td>
<td>77,77,77,77</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>A</td>
<td>1083</td>
<td>1/1</td>
<td>0.91</td>
<td>0.10</td>
<td>66,66,66,66</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>G</td>
<td>1086</td>
<td>1/1</td>
<td>0.92</td>
<td>0.07</td>
<td>54,54,54,54</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>PO4</td>
<td>C</td>
<td>1088</td>
<td>5/5</td>
<td>0.92</td>
<td>0.21</td>
<td>80,80,80,80</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>U</td>
<td>G</td>
<td>1093</td>
<td>21/21</td>
<td>0.94</td>
<td>0.12</td>
<td>31,57,80,85</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>E</td>
<td>1087</td>
<td>1/1</td>
<td>0.94</td>
<td>0.06</td>
<td>54,54,54,54</td>
<td>0</td>
</tr>
<tr>
<td>10</td>
<td>U</td>
<td>C</td>
<td>1093</td>
<td>21/21</td>
<td>0.95</td>
<td>0.13</td>
<td>33,51,83,89</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>H</td>
<td>384</td>
<td>1/1</td>
<td>0.95</td>
<td>0.13</td>
<td>67,67,67,67</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>ORN</td>
<td>A</td>
<td>1089</td>
<td>9/9</td>
<td>0.95</td>
<td>0.18</td>
<td>24,29,36,37</td>
<td>0</td>
</tr>
</tbody>
</table>

Continued on next page...
<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>6</td>
<td>CL</td>
<td>C</td>
<td>1086</td>
<td>1/1</td>
<td>0.95</td>
<td>0.11</td>
<td>67,67,67,67</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>E</td>
<td>1081</td>
<td>1/1</td>
<td>0.95</td>
<td>0.06</td>
<td>42,42,42,42</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>C</td>
<td>1082</td>
<td>1/1</td>
<td>0.96</td>
<td>0.06</td>
<td>44,44,44,44</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>ORN</td>
<td>G</td>
<td>1091</td>
<td>9/9</td>
<td>0.96</td>
<td>0.17</td>
<td>28,33,36,63</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>C</td>
<td>1084</td>
<td>1/1</td>
<td>0.96</td>
<td>0.08</td>
<td>43,43,43,43</td>
<td>0</td>
</tr>
<tr>
<td>8</td>
<td>ORN</td>
<td>C</td>
<td>1091</td>
<td>9/9</td>
<td>0.97</td>
<td>0.13</td>
<td>16,25,37,40</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>G</td>
<td>1091</td>
<td>9/9</td>
<td>0.98</td>
<td>0.09</td>
<td>29,47,80,89</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>E</td>
<td>1081</td>
<td>1/1</td>
<td>0.98</td>
<td>0.04</td>
<td>41,41,41,41</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>E</td>
<td>1085</td>
<td>1/1</td>
<td>0.98</td>
<td>0.05</td>
<td>49,49,49,49</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>E</td>
<td>1083</td>
<td>1/1</td>
<td>0.98</td>
<td>0.05</td>
<td>58,58,58,58</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>B</td>
<td>383</td>
<td>1/1</td>
<td>0.98</td>
<td>0.06</td>
<td>45,45,45,45</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>G</td>
<td>1087</td>
<td>1/1</td>
<td>0.98</td>
<td>0.09</td>
<td>81,81,81,81</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>C</td>
<td>1090</td>
<td>27/27</td>
<td>0.98</td>
<td>0.09</td>
<td>26,42,61,77</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>A</td>
<td>1082</td>
<td>1/1</td>
<td>0.98</td>
<td>0.04</td>
<td>41,41,41,41</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>E</td>
<td>1085</td>
<td>1/1</td>
<td>0.98</td>
<td>0.05</td>
<td>49,49,49,49</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>E</td>
<td>1083</td>
<td>1/1</td>
<td>0.98</td>
<td>0.05</td>
<td>58,58,58,58</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>B</td>
<td>383</td>
<td>1/1</td>
<td>0.98</td>
<td>0.06</td>
<td>45,45,45,45</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>G</td>
<td>1087</td>
<td>1/1</td>
<td>0.98</td>
<td>0.09</td>
<td>81,81,81,81</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>C</td>
<td>1090</td>
<td>27/27</td>
<td>0.98</td>
<td>0.09</td>
<td>26,42,61,77</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>NET</td>
<td>A</td>
<td>1090</td>
<td>9/9</td>
<td>0.98</td>
<td>0.10</td>
<td>18,23,28,38</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>G</td>
<td>1090</td>
<td>27/27</td>
<td>0.98</td>
<td>0.09</td>
<td>29,47,80,89</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>A</td>
<td>1082</td>
<td>1/1</td>
<td>0.98</td>
<td>0.04</td>
<td>41,41,41,41</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>E</td>
<td>1085</td>
<td>1/1</td>
<td>0.98</td>
<td>0.05</td>
<td>49,49,49,49</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>E</td>
<td>1083</td>
<td>1/1</td>
<td>0.98</td>
<td>0.05</td>
<td>58,58,58,58</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>B</td>
<td>383</td>
<td>1/1</td>
<td>0.98</td>
<td>0.06</td>
<td>45,45,45,45</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>G</td>
<td>1087</td>
<td>1/1</td>
<td>0.98</td>
<td>0.09</td>
<td>81,81,81,81</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>C</td>
<td>1090</td>
<td>27/27</td>
<td>0.98</td>
<td>0.09</td>
<td>26,42,61,77</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>NET</td>
<td>E</td>
<td>1092</td>
<td>9/9</td>
<td>0.98</td>
<td>0.18</td>
<td>29,47,80,89</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>E</td>
<td>1088</td>
<td>1/1</td>
<td>0.99</td>
<td>0.10</td>
<td>44,44,44,44</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>G</td>
<td>1080</td>
<td>1/1</td>
<td>0.99</td>
<td>0.07</td>
<td>38,38,38,38</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>A</td>
<td>1087</td>
<td>27/27</td>
<td>0.99</td>
<td>0.09</td>
<td>16,22,31,38</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>E</td>
<td>1086</td>
<td>1/1</td>
<td>0.99</td>
<td>0.07</td>
<td>41,41,41,41</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>C</td>
<td>1077</td>
<td>1/1</td>
<td>0.99</td>
<td>0.11</td>
<td>27,27,27,27</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>E</td>
<td>1089</td>
<td>27/27</td>
<td>0.99</td>
<td>0.12</td>
<td>15,26,34,36</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>A</td>
<td>1081</td>
<td>1/1</td>
<td>0.99</td>
<td>0.08</td>
<td>28,28,28,28</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>G</td>
<td>1082</td>
<td>1/1</td>
<td>0.99</td>
<td>0.10</td>
<td>29,29,29,29</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>C</td>
<td>1089</td>
<td>27/27</td>
<td>0.99</td>
<td>0.10</td>
<td>16,23,31,44</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>D</td>
<td>384</td>
<td>1/1</td>
<td>0.99</td>
<td>0.07</td>
<td>34,34,34,34</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>PO4</td>
<td>A</td>
<td>1078</td>
<td>5/5</td>
<td>0.99</td>
<td>0.08</td>
<td>17,21,24,29</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>E</td>
<td>1090</td>
<td>27/27</td>
<td>0.99</td>
<td>0.06</td>
<td>23,35,48,56</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>E</td>
<td>1080</td>
<td>1/1</td>
<td>0.99</td>
<td>0.06</td>
<td>27,27,27,27</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>G</td>
<td>1077</td>
<td>1/1</td>
<td>0.99</td>
<td>0.10</td>
<td>38,38,38,38</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>PO4</td>
<td>E</td>
<td>1078</td>
<td>5/5</td>
<td>0.99</td>
<td>0.08</td>
<td>19,22,26,27</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>D</td>
<td>383</td>
<td>1/1</td>
<td>0.99</td>
<td>0.03</td>
<td>34,34,34,34</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>G</td>
<td>1083</td>
<td>1/1</td>
<td>0.99</td>
<td>0.05</td>
<td>52,52,52,52</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>G</td>
<td>1089</td>
<td>27/27</td>
<td>0.99</td>
<td>0.11</td>
<td>17,27,35,41</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>F</td>
<td>383</td>
<td>1/1</td>
<td>0.99</td>
<td>0.07</td>
<td>36,36,36,36</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<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>5</td>
<td>PO4</td>
<td>G</td>
<td>1078</td>
<td>5/5</td>
<td>0.99</td>
<td>0.07</td>
<td>17,24,31,35</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>C</td>
<td>1079</td>
<td>1/1</td>
<td>0.99</td>
<td>0.05</td>
<td>46,46,46,46</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>G</td>
<td>1079</td>
<td>1/1</td>
<td>0.99</td>
<td>0.05</td>
<td>47,47,47,47</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>A</td>
<td>1077</td>
<td>1/1</td>
<td>0.99</td>
<td>0.08</td>
<td>27,27,27,27</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>A</td>
<td>1080</td>
<td>1/1</td>
<td>0.99</td>
<td>0.08</td>
<td>29,29,29,29</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>C</td>
<td>1080</td>
<td>1/1</td>
<td>0.99</td>
<td>0.08</td>
<td>36,36,36,36</td>
<td>0</td>
</tr>
<tr>
<td>7</td>
<td>ADP</td>
<td>A</td>
<td>1088</td>
<td>27/27</td>
<td>0.99</td>
<td>0.07</td>
<td>20,33,47,60</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>C</td>
<td>1087</td>
<td>1/1</td>
<td>0.99</td>
<td>0.15</td>
<td>63,63,63,63</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>E</td>
<td>1077</td>
<td>1/1</td>
<td>0.99</td>
<td>0.12</td>
<td>30,30,30,30</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>C</td>
<td>1075</td>
<td>1/1</td>
<td>0.99</td>
<td>0.07</td>
<td>25,25,25,25</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>NET</td>
<td>G</td>
<td>1092</td>
<td>9/9</td>
<td>0.99</td>
<td>0.13</td>
<td>18,28,29,37</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>E</td>
<td>1076</td>
<td>1/1</td>
<td>0.99</td>
<td>0.09</td>
<td>25,25,25,25</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>A</td>
<td>1085</td>
<td>1/1</td>
<td>0.99</td>
<td>0.06</td>
<td>39,39,39,39</td>
<td>0</td>
</tr>
<tr>
<td>9</td>
<td>NET</td>
<td>C</td>
<td>1092</td>
<td>9/9</td>
<td>0.99</td>
<td>0.13</td>
<td>16,21,23,29</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>A</td>
<td>1084</td>
<td>1/1</td>
<td>0.99</td>
<td>0.05</td>
<td>40,40,40,40</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>PO4</td>
<td>C</td>
<td>1078</td>
<td>5/5</td>
<td>0.99</td>
<td>0.09</td>
<td>16,22,24,25</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>C</td>
<td>1081</td>
<td>1/1</td>
<td>0.99</td>
<td>0.10</td>
<td>29,29,29,29</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>C</td>
<td>1085</td>
<td>1/1</td>
<td>1.00</td>
<td>0.07</td>
<td>39,39,39,39</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>C</td>
<td>1076</td>
<td>1/1</td>
<td>1.00</td>
<td>0.07</td>
<td>22,22,22,22</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>A</td>
<td>1076</td>
<td>1/1</td>
<td>1.00</td>
<td>0.07</td>
<td>21,21,21,21</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>E</td>
<td>1074</td>
<td>1/1</td>
<td>1.00</td>
<td>0.09</td>
<td>27,27,27,27</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>E</td>
<td>1075</td>
<td>1/1</td>
<td>1.00</td>
<td>0.08</td>
<td>27,27,27,27</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>C</td>
<td>1074</td>
<td>1/1</td>
<td>1.00</td>
<td>0.08</td>
<td>27,27,27,27</td>
<td>0</td>
</tr>
<tr>
<td>4</td>
<td>K</td>
<td>G</td>
<td>1076</td>
<td>1/1</td>
<td>1.00</td>
<td>0.09</td>
<td>28,28,28,28</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>A</td>
<td>1075</td>
<td>1/1</td>
<td>1.00</td>
<td>0.06</td>
<td>23,23,23,23</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>A</td>
<td>1074</td>
<td>1/1</td>
<td>1.00</td>
<td>0.07</td>
<td>25,25,25,25</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>F</td>
<td>384</td>
<td>1/1</td>
<td>1.00</td>
<td>0.06</td>
<td>32,32,32,32</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>G</td>
<td>1074</td>
<td>1/1</td>
<td>1.00</td>
<td>0.07</td>
<td>31,31,31,31</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>E</td>
<td>1079</td>
<td>1/1</td>
<td>1.00</td>
<td>0.05</td>
<td>41,41,41,41</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>G</td>
<td>1075</td>
<td>1/1</td>
<td>1.00</td>
<td>0.08</td>
<td>28,28,28,28</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>MN</td>
<td>A</td>
<td>1079</td>
<td>1/1</td>
<td>1.00</td>
<td>0.05</td>
<td>37,37,37,37</td>
<td>0</td>
</tr>
<tr>
<td>6</td>
<td>CL</td>
<td>E</td>
<td>1082</td>
<td>1/1</td>
<td>1.00</td>
<td>0.14</td>
<td>24,24,24,24</td>
<td>0</td>
</tr>
</tbody>
</table>

6.5 Other polymers

There are no such residues in this entry.