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

- Cyrange: Kirchner and Güntert (2011)
- NmrClust: Kelley et al. (1996)
- MolProbity: 4.02b-467
- Mogul: 1.7.3 (157068), CSD as539be (2018)
- Percentile statistics: 20171227.v01 (using entries in the PDB archive December 27th 2017)
- RCI: v_1n_11_5_13_A (Berjanski et al., 2005)
- PANAV: Wang et al. (2010)
- ShiftChecker: trunk30686
- Ideal geometry (proteins): Engh & Huber (2001)
- Ideal geometry (DNA, RNA): Parkinson et al. (1996)
- Validation Pipeline (wwPDB-VP): trunk30686
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

**SOLUTION NMR**

The overall completeness of chemical shifts assignment was not calculated.

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>NMR archive (#Entries)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clashscore</td>
<td>136279</td>
<td>12091</td>
</tr>
<tr>
<td>Ramachandran outliers</td>
<td>132675</td>
<td>10835</td>
</tr>
<tr>
<td>Sidechain outliers</td>
<td>132484</td>
<td>10811</td>
</tr>
</tbody>
</table>

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for >3, 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%.

<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>118</td>
<td><img src="image" alt="quality" /></td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>13</td>
<td>100%</td>
</tr>
</tbody>
</table>
2 Ensemble composition and analysis

This entry contains 20 models. Model 2 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

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

<table>
<thead>
<tr>
<th>Well-defined (core) protein residues</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well-defined core</td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td>1</td>
</tr>
</tbody>
</table>

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 2 clusters and 1 single-model cluster was found.

<table>
<thead>
<tr>
<th>Cluster number</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1, 2, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 20</td>
</tr>
<tr>
<td>2</td>
<td>7, 19</td>
</tr>
<tr>
<td>Single-model clusters</td>
<td>17</td>
</tr>
</tbody>
</table>
3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 2192 atoms, of which 1100 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Histone acetyltransferase PCAF.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>118</td>
<td>Total C H N O S</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1976 636 989 164 180 7</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>A</td>
<td>715</td>
<td>GLY</td>
<td>-</td>
<td>EXPRESSION TAG</td>
<td>UNP Q92831</td>
</tr>
<tr>
<td>A</td>
<td>716</td>
<td>SER</td>
<td>-</td>
<td>EXPRESSION TAG</td>
<td>UNP Q92831</td>
</tr>
<tr>
<td>A</td>
<td>717</td>
<td>HIS</td>
<td>-</td>
<td>EXPRESSION TAG</td>
<td>UNP Q92831</td>
</tr>
<tr>
<td>A</td>
<td>718</td>
<td>MET</td>
<td>-</td>
<td>EXPRESSION TAG</td>
<td>UNP Q92831</td>
</tr>
</tbody>
</table>

- Molecule 2 is a protein called Histone H3.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Residues</th>
<th>Atoms</th>
<th>Trace</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>B</td>
<td>13</td>
<td>Total C H N O S</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>216 65 111 21 18 1</td>
<td></td>
</tr>
</tbody>
</table>

There is a discrepancy 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>43</td>
<td>CYS</td>
<td>-</td>
<td>INSERTION</td>
<td>UNP P61830</td>
</tr>
</tbody>
</table>
4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

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

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

- Molecule 2: Histone H3

Chain B:

4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

- Molecule 2: Histone H3
4.2.2 Score per residue for model 2 (medoid)

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

4.2.3 Score per residue for model 3

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

4.2.4 Score per residue for model 4

- Molecule 1: Histone acetyltransferase PCAF
Chain A:

- Molecule 2: Histone H3

Chain B:

4.2.5 Score per residue for model 5

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

- Molecule 2: Histone H3

Chain B:

4.2.6 Score per residue for model 6

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

- Molecule 2: Histone H3

Chain B:
4.2.7  Score per residue for model 7

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

- Molecule 2: Histone H3

Chain B:

4.2.8  Score per residue for model 8

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

- Molecule 2: Histone H3

Chain B:

4.2.9  Score per residue for model 9

- Molecule 1: Histone acetyltransferase PCAF

Chain A:
• Molecule 2: Histone H3

Chain B:

4.2.10 Score per residue for model 10

• Molecule 1: Histone acetyltransferase PCAF

Chain A:

4.2.11 Score per residue for model 11

• Molecule 1: Histone acetyltransferase PCAF

Chain A:

• Molecule 2: Histone H3

Chain B:
4.2.12 Score per residue for model 12

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

- Molecule 2: Histone H3

Chain B:

4.2.13 Score per residue for model 13

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

- Molecule 2: Histone H3

Chain B:

4.2.14 Score per residue for model 14

- Molecule 1: Histone acetyltransferase PCAF

Chain A:
4.2.15 Score per residue for model 15

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

4.2.16 Score per residue for model 16

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

- Molecule 2: Histone H3

Chain B:
4.2.17 Score per residue for model 17

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

4.2.18 Score per residue for model 18

- Molecule 1: Histone acetyltransferase PCAF

Chain A:

4.2.19 Score per residue for model 19

- Molecule 1: Histone acetyltransferase PCAF

Chain A:
• Molecule 2: Histone H3

Chain B:

4.2.20  Score per residue for model 20

• Molecule 1: Histone acetyltransferase PCAF

Chain A:

• Molecule 2: Histone H3

Chain B:
5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing, torsion angle dynamics.*

Of the 200 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy.*

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

<table>
<thead>
<tr>
<th>Software name</th>
<th>Classification</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNS</td>
<td>structure solution</td>
<td>1.0</td>
</tr>
<tr>
<td>CNS</td>
<td>refinement</td>
<td>1.0</td>
</tr>
</tbody>
</table>

No chemical shift data was provided. No validations of the models with respect to experimental NMR restraints is performed at this time.
6  Model quality

6.1  Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ALY

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

<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>#Z&gt;5</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>0.66±0.01</td>
<td>0±0/924 (0.0±0.0%)</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>0.66</td>
<td>0/18480 (0.0%)</td>
</tr>
</tbody>
</table>

There are no bond-length outliers.

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

<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>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>802</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-8.11</td>
<td>116.13</td>
<td>121.00</td>
<td>16</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>802</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>7.21</td>
<td>125.33</td>
<td>121.00</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>788</td>
<td>PHE</td>
<td>CB-CG-CD1</td>
<td>-7.04</td>
<td>115.87</td>
<td>120.80</td>
<td>11</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>809</td>
<td>TYR</td>
<td>CB-CG-CD1</td>
<td>5.62</td>
<td>124.37</td>
<td>121.00</td>
<td>14</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>809</td>
<td>TYR</td>
<td>CB-CG-CD2</td>
<td>-5.38</td>
<td>117.77</td>
<td>121.00</td>
<td>14</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>756</td>
<td>GLU</td>
<td>CA-C-N</td>
<td>-5.14</td>
<td>105.90</td>
<td>117.20</td>
<td>12</td>
</tr>
</tbody>
</table>

There are no chirality outliers.

There are no planarity outliers.

6.2  Too-close contacts

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Non-H</th>
<th>H(model)</th>
<th>H(added)</th>
<th>Clashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>899</td>
<td>901</td>
<td>900</td>
<td>186±4</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0±0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Non-H</th>
<th>H(model)</th>
<th>H(added)</th>
<th>Clashes</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>All</td>
<td>17980</td>
<td>18020</td>
<td>18000</td>
<td>3721</td>
</tr>
</tbody>
</table>

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 103.

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Clash(Å)</th>
<th>Distance(Å)</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:757:ALA:HB3</td>
<td>1:A:760:TYR:HB2</td>
<td>1.00</td>
<td>1.26</td>
<td>10 11</td>
</tr>
<tr>
<td>1:A:763:VAL:HG21</td>
<td>1:A:802:TYR:HB2</td>
<td>0.96</td>
<td>1.36</td>
<td>5 17</td>
</tr>
<tr>
<td>1:A:757:ALA:CB</td>
<td>1:A:760:TYR:HB2</td>
<td>0.90</td>
<td>1.96</td>
<td>17 20</td>
</tr>
<tr>
<td>1:A:763:VAL:HG13</td>
<td>1:A:764:ILE:HG12</td>
<td>0.88</td>
<td>1.43</td>
<td>1 1</td>
</tr>
<tr>
<td>1:A:757:ALA:HB1</td>
<td>1:A:760:TYR:HB2</td>
<td>0.86</td>
<td>1.46</td>
<td>14 6</td>
</tr>
<tr>
<td>1:A:824:ILE:HG22</td>
<td>1:A:829:LEU:CD1</td>
<td>0.82</td>
<td>2.05</td>
<td>6 19</td>
</tr>
<tr>
<td>1:A:770:LEU:HD23</td>
<td>1:A:792:LEU:HD21</td>
<td>0.82</td>
<td>1.50</td>
<td>18 20</td>
</tr>
<tr>
<td>1:A:821:PHE:HA</td>
<td>1:A:824:ILE:HD11</td>
<td>0.81</td>
<td>1.51</td>
<td>7 20</td>
</tr>
<tr>
<td>1:A:768:MET:HG3</td>
<td>1:A:795:VAL:HG12</td>
<td>0.79</td>
<td>1.55</td>
<td>10 20</td>
</tr>
<tr>
<td>1:A:789:MET:HE3</td>
<td>1:A:824:ILE:HD12</td>
<td>0.77</td>
<td>1.55</td>
<td>7 17</td>
</tr>
<tr>
<td>1:A:820:PHE:O</td>
<td>1:A:824:ILE:HG12</td>
<td>0.76</td>
<td>1.80</td>
<td>11 18</td>
</tr>
<tr>
<td>1:A:824:ILE:CG2</td>
<td>1:A:829:LEU:HD12</td>
<td>0.75</td>
<td>2.11</td>
<td>15 19</td>
</tr>
<tr>
<td>1:A:789:MET:CE</td>
<td>1:A:824:ILE:HD12</td>
<td>0.75</td>
<td>2.11</td>
<td>5 18</td>
</tr>
<tr>
<td>1:A:735:ILE:HG23</td>
<td>1:A:823:LYS:HB3</td>
<td>0.75</td>
<td>1.58</td>
<td>5 4</td>
</tr>
<tr>
<td>1:A:728:LEU:HD21</td>
<td>1:A:785:LYS:HD2</td>
<td>0.75</td>
<td>1.55</td>
<td>1 4</td>
</tr>
<tr>
<td>1:A:789:MET:SD</td>
<td>1:A:830:ILE:HA</td>
<td>0.75</td>
<td>2.21</td>
<td>18 20</td>
</tr>
<tr>
<td>1:A:757:ALA:HB1</td>
<td>1:A:760:TYR:CB</td>
<td>0.75</td>
<td>2.11</td>
<td>16 3</td>
</tr>
<tr>
<td>1:A:731:THR:HG23</td>
<td>1:A:827:ALA:HB1</td>
<td>0.74</td>
<td>1.59</td>
<td>11 20</td>
</tr>
<tr>
<td>1:A:732:LEU:HB3</td>
<td>1:A:788:PHE:CD2</td>
<td>0.73</td>
<td>2.18</td>
<td>11 20</td>
</tr>
<tr>
<td>1:A:757:ALA:HB1</td>
<td>1:A:760:TYR:CD1</td>
<td>0.73</td>
<td>2.19</td>
<td>3 2</td>
</tr>
<tr>
<td>1:A:824:ILE:HG13</td>
<td>1:A:830:ILE:HD11</td>
<td>0.73</td>
<td>1.60</td>
<td>5 20</td>
</tr>
<tr>
<td>1:A:825:LYS:HG2</td>
<td>1:A:830:ILE:HD12</td>
<td>0.73</td>
<td>1.61</td>
<td>5 6</td>
</tr>
<tr>
<td>1:A:789:MET:CE</td>
<td>1:A:830:ILE:HG23</td>
<td>0.72</td>
<td>2.15</td>
<td>5 19</td>
</tr>
<tr>
<td>1:A:760:TYR:CT</td>
<td>1:A:767:PRO:HB3</td>
<td>0.71</td>
<td>2.21</td>
<td>4 14</td>
</tr>
<tr>
<td>1:A:752:VAL:HG13</td>
<td>1:A:756:GLU:HG3</td>
<td>0.70</td>
<td>1.63</td>
<td>13 2</td>
</tr>
<tr>
<td>1:A:749:MET:N</td>
<td>1:A:770:LEU:HD12</td>
<td>0.70</td>
<td>2.01</td>
<td>12 20</td>
</tr>
<tr>
<td>1:A:757:ALA:HB1</td>
<td>1:A:802:TYR:HE2</td>
<td>0.70</td>
<td>1.46</td>
<td>19 8</td>
</tr>
<tr>
<td>1:A:732:LEU:HD23</td>
<td>1:A:829:LEU:CD1</td>
<td>0.70</td>
<td>2.17</td>
<td>8 19</td>
</tr>
<tr>
<td>1:A:746:TRP:HA</td>
<td>1:A:749:MET:HG3</td>
<td>0.70</td>
<td>1.63</td>
<td>5 6</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Atom-1</th>
<th>Atom-2</th>
<th>Clash(Å)</th>
<th>Distance(Å)</th>
<th>Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:A:752:VAL:HB</td>
<td>1:A:760:TYR:CE2</td>
<td>0.69</td>
<td>2.22</td>
<td>19</td>
</tr>
<tr>
<td>1:A:732:LEU:HB3</td>
<td>1:A:788:PHE:CE2</td>
<td>0.69</td>
<td>2.22</td>
<td>6</td>
</tr>
<tr>
<td>1:A:825:LYS:HG3</td>
<td>1:A:830:ILE:HD12</td>
<td>0.69</td>
<td>1.64</td>
<td>1</td>
</tr>
<tr>
<td>1:A:799:CYS:SG</td>
<td>1:A:813:ALA:HB2</td>
<td>0.68</td>
<td>2.27</td>
<td>8</td>
</tr>
<tr>
<td>1:A:748:PHE:CE1</td>
<td>1:A:799:CYS:SG</td>
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### Full wwPDB NMR Structure Validation Report

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<td>20</td>
</tr>
<tr>
<td>1:A:794:ARG:HA</td>
<td>1:A:797:THR:HG22</td>
<td>0.41</td>
<td>1.91</td>
<td>3</td>
</tr>
<tr>
<td>1:A:789:MET:SD</td>
<td>1:A:830:ILE:HG23</td>
<td>0.41</td>
<td>2.56</td>
<td>2</td>
</tr>
<tr>
<td>1:A:798:ASN:C</td>
<td>1:A:798:ASN:ND2</td>
<td>0.41</td>
<td>2.74</td>
<td>2</td>
</tr>
<tr>
<td>1:A:759:GLY:O</td>
<td>1:A:763:VAL:CG1</td>
<td>0.41</td>
<td>2.69</td>
<td>19</td>
</tr>
<tr>
<td>1:A:760:TYR:CE2</td>
<td>1:A:761:TYR:HE1</td>
<td>0.40</td>
<td>2.34</td>
<td>17</td>
</tr>
<tr>
<td>1:A:804:PRO:C</td>
<td>1:A:806:GLU:N</td>
<td>0.40</td>
<td>2.74</td>
<td>1</td>
</tr>
<tr>
<td>1:A:796:PHE:O</td>
<td>1:A:800:LYS:N</td>
<td>0.40</td>
<td>2.55</td>
<td>15</td>
</tr>
<tr>
<td>1:A:760:TYR:HD1</td>
<td>1:A:802:TYR:CE2</td>
<td>0.40</td>
<td>2.34</td>
<td>3</td>
</tr>
<tr>
<td>1:A:752:VAL:CG1</td>
<td>1:A:756:GLU:HG3</td>
<td>0.40</td>
<td>2.47</td>
<td>14</td>
</tr>
<tr>
<td>1:A:807:SER:HB3</td>
<td>1:A:809:TYR:CE1</td>
<td>0.40</td>
<td>2.52</td>
<td>10</td>
</tr>
<tr>
<td>1:A:761:TYR:CE1</td>
<td>1:A:767:PRO:HG2</td>
<td>0.40</td>
<td>2.50</td>
<td>20</td>
</tr>
<tr>
<td>1:A:824:ILE:H</td>
<td>1:A:824:ILE:HG12</td>
<td>0.40</td>
<td>1.43</td>
<td>19</td>
</tr>
<tr>
<td>1:A:746:TRP:CH2</td>
<td>1:A:809:TYR:CE1</td>
<td>0.40</td>
<td>3.09</td>
<td>12</td>
</tr>
<tr>
<td>1:A:820:PHE:CE1</td>
<td>1:A:824:ILE:HD13</td>
<td>0.40</td>
<td>2.51</td>
<td>17</td>
</tr>
<tr>
<td>1:A:776:ARG:HB2</td>
<td>1:A:782:TYR:CE2</td>
<td>0.40</td>
<td>2.51</td>
<td>2</td>
</tr>
</tbody>
</table>
6.3 Torsion angles

6.3.1 Protein backbone

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the backbone conformation was analysed and the total number of residues.

<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>107/118 (91%)</td>
<td>84±2 (78±2%)</td>
<td>19±2 (18±2%)</td>
<td>4±1 (4±1%)</td>
<td>6  32</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>2140/2620 (82%)</td>
<td>1672 (78%)</td>
<td>383 (18%)</td>
<td>85 (4%)</td>
<td>6  32</td>
</tr>
</tbody>
</table>

All 10 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Models (Total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>830</td>
<td>ILE</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>807</td>
<td>SER</td>
<td>16</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>829</td>
<td>LEU</td>
<td>15</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>808</td>
<td>GLU</td>
<td>13</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>724</td>
<td>ASP</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>752</td>
<td>VAL</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>758</td>
<td>PRO</td>
<td>4</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>805</td>
<td>PRO</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>767</td>
<td>PRO</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>782</td>
<td>TYR</td>
<td>1</td>
</tr>
</tbody>
</table>

6.3.2 Protein sidechains

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the sidechain conformation was analysed and the total number of residues.

<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>100/110 (91%)</td>
<td>66±2 (66±2%)</td>
<td>34±2 (34±2%)</td>
<td>1 10</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>0</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>All</td>
<td>All</td>
<td>2000/2400 (83%)</td>
<td>1314 (66%)</td>
<td>686 (34%)</td>
<td>1 10</td>
</tr>
</tbody>
</table>

All 60 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.
<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Models (Total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>810</td>
<td>TYR</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>795</td>
<td>VAL</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>748</td>
<td>PHE</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>824</td>
<td>ILE</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>820</td>
<td>PHE</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>777</td>
<td>LEU</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>736</td>
<td>LEU</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>792</td>
<td>LEU</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>730</td>
<td>SER</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>830</td>
<td>ILE</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>821</td>
<td>PHE</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>819</td>
<td>PHE</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>780</td>
<td>ARG</td>
<td>20</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>763</td>
<td>VAL</td>
<td>19</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>729</td>
<td>TYR</td>
<td>19</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>770</td>
<td>LEU</td>
<td>19</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>785</td>
<td>LYS</td>
<td>19</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>801</td>
<td>GLU</td>
<td>19</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>809</td>
<td>TYR</td>
<td>18</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>778</td>
<td>LYS</td>
<td>18</td>
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<tr>
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<td>A</td>
<td>762</td>
<td>GLU</td>
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<td>A</td>
<td>826</td>
<td>GLU</td>
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</tr>
<tr>
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<td>16</td>
</tr>
<tr>
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<td>A</td>
<td>818</td>
<td>LYS</td>
<td>16</td>
</tr>
<tr>
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<td>MET</td>
<td>15</td>
</tr>
<tr>
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<td>811</td>
<td>LYS</td>
<td>15</td>
</tr>
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<td>784</td>
<td>SER</td>
<td>15</td>
</tr>
<tr>
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<td>802</td>
<td>TYR</td>
<td>14</td>
</tr>
<tr>
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<td>825</td>
<td>LYS</td>
<td>14</td>
</tr>
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<td>740</td>
<td>LYS</td>
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</tr>
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<td>1</td>
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<td>13</td>
</tr>
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<td>A</td>
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</tr>
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<td>11</td>
</tr>
<tr>
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<td>817</td>
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<td>11</td>
</tr>
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<td>779</td>
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</tr>
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<td>794</td>
<td>ARG</td>
<td>8</td>
</tr>
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</tr>
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<td>GLU</td>
<td>7</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>808</td>
<td>GLU</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>807</td>
<td>SER</td>
<td>6</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>814</td>
<td>ASN</td>
<td>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>Models (Total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>823</td>
<td>LYS</td>
<td>4</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>750</td>
<td>GLU</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>752</td>
<td>VAL</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>803</td>
<td>ASN</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>806</td>
<td>GLU</td>
<td>3</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>786</td>
<td>LYS</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>800</td>
<td>LYS</td>
<td>2</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>753</td>
<td>LYS</td>
<td>2</td>
</tr>
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<td>A</td>
<td>799</td>
<td>CYS</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>816</td>
<td>LEU</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>733</td>
<td>LYS</td>
<td>1</td>
</tr>
<tr>
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<td>A</td>
<td>776</td>
<td>ARG</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>771</td>
<td>LYS</td>
<td>1</td>
</tr>
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<td>1</td>
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<td>737</td>
<td>GLN</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>754</td>
<td>ARG</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
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<td>749</td>
<td>MET</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>A</td>
<td>812</td>
<td>CYS</td>
<td>1</td>
</tr>
</tbody>
</table>

6.3.3 RNA

There are no RNA molecules in this entry.

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

1 non-standard protein/DNA/RNA residue is modelled in this entry.

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of 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 angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Counts</th>
<th>Bond lengths</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>ALY</td>
<td>B</td>
<td>36</td>
<td>2</td>
<td>11,11,12</td>
<td>0.82±0.08, 0±0 (0±0%)</td>
</tr>
</tbody>
</table>

In the following table, the Counts columns list the number of angles for which Mogul statistics could be retrieved, the number of angles that are observed in the model and the number of 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 angle is the number of standard deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond lengths.
deviations the observed value is removed from the expected value. A bond angle with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the average root-mean-square of all Z scores of the bond angles.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Counts</th>
<th>Bond angles</th>
<th>#Z&gt;2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>ALY</td>
<td>B</td>
<td>36</td>
<td>2</td>
<td>9,12,14</td>
<td>1.13±0.12</td>
<td>0±0 (0±0%)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Mol</th>
<th>Type</th>
<th>Chain</th>
<th>Res</th>
<th>Link</th>
<th>Chirals</th>
<th>Torsions</th>
<th>Rings</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>ALY</td>
<td>B</td>
<td>36</td>
<td>2</td>
<td>-</td>
<td>0±0,8,10,12</td>
<td>0±0,0,0,0</td>
</tr>
</tbody>
</table>

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

All unique torsion outliers are listed below.

<table>
<thead>
<tr>
<th>Mol</th>
<th>Chain</th>
<th>Res</th>
<th>Type</th>
<th>Atoms</th>
<th>Models (Total)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>B</td>
<td>36</td>
<td>ALY</td>
<td>OH-CH-NZ-CE</td>
<td>1</td>
</tr>
</tbody>
</table>

There are no ring outliers.

6.5 Carbohydrates

There are no carbohydrates in this entry.

6.6 Ligand geometry

There are no ligands in this entry.

6.7 Other polymers

There are no such molecules in this entry.
6.8 Polymer linkage issues

There are no chain breaks in this entry.
7 Chemical shift validation

No chemical shift data were provided