



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 04:54 AM UTC

PDB ID : 1UNA / pdb\_00001una  
Title : UNASSEMBLED VIRUS COAT PROTEIN DIMER, BACTERIOPHAGE  
RNA-BINDING DIMER  
Authors : Ni, C.-Z.; Ely, K.R.  
Deposited on : 1996-04-25  
Resolution : 2.80 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](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

|                                |   |                                                                  |
|--------------------------------|---|------------------------------------------------------------------|
| MolProbity                     | : | 4-5-2 with Phenix2.0                                             |
| Xtriage (Phenix)               | : | NOT EXECUTED                                                     |
| EDS                            | : | NOT EXECUTED                                                     |
| Percentile statistics          | : | 20250101.v01 (using entries in the PDB archive January 1st 2025) |
| Ideal geometry (proteins)      | : | Engh & Huber (2001)                                              |
| Ideal geometry (DNA, RNA)      | : | Parkinson et al. (1996)                                          |
| Validation Pipeline (wwPDB-VP) | : | 2.49                                                             |

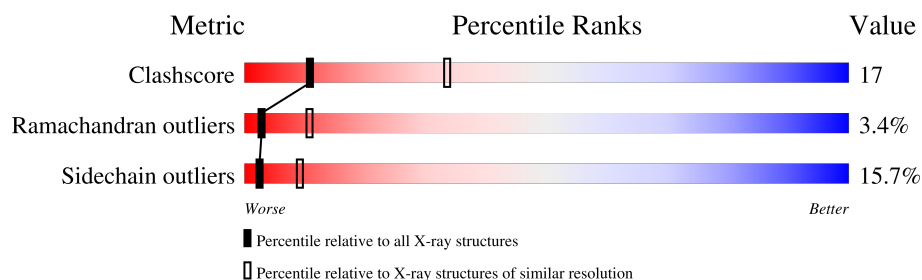
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.80 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.



| Metric                | Whole archive<br>(#Entries) | Similar resolution<br>(#Entries, resolution range(Å)) |
|-----------------------|-----------------------------|-------------------------------------------------------|
| Clashscore            | 190562                      | 4276 (2.80-2.80)                                      |
| Ramachandran outliers | 187476                      | 4196 (2.80-2.80)                                      |
| Sidechain outliers    | 187428                      | 4198 (2.80-2.80)                                      |

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 of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions  $\leq 5\%$ .

Note EDS was not executed.

| Mol | Chain | Length | Quality of chain |
|-----|-------|--------|------------------|
| 1   | A     | 129    |                  |
| 1   | B     | 129    |                  |

## 2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1830 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 GA UNASSEMBLED COAT PROTEIN DIMER.

| Mol | Chain | Residues | Atoms |     |     |     | ZeroOcc | AltConf | Trace |
|-----|-------|----------|-------|-----|-----|-----|---------|---------|-------|
| 1   | A     | 122      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 915   | 583 | 154 | 178 |         |         |       |
| 1   | B     | 122      | Total | C   | N   | O   | 0       | 0       | 0     |
|     |       |          | 915   | 583 | 154 | 178 |         |         |       |

There are 8 discrepancies between the modelled and reference sequences:

| Chain | Residue | Modelled | Actual | Comment  | Reference  |
|-------|---------|----------|--------|----------|------------|
| A     | 5       | HIS      | ARG    | conflict | UNP P07234 |
| A     | 59      | THR      | ALA    | conflict | UNP P07234 |
| A     | 79      | VAL      | GLY    | conflict | UNP P07234 |
| A     | 109     | THR      | ALA    | conflict | UNP P07234 |
| B     | 5       | HIS      | ARG    | conflict | UNP P07234 |
| B     | 59      | THR      | ALA    | conflict | UNP P07234 |
| B     | 79      | VAL      | GLY    | conflict | UNP P07234 |
| B     | 109     | THR      | ALA    | conflict | UNP P07234 |

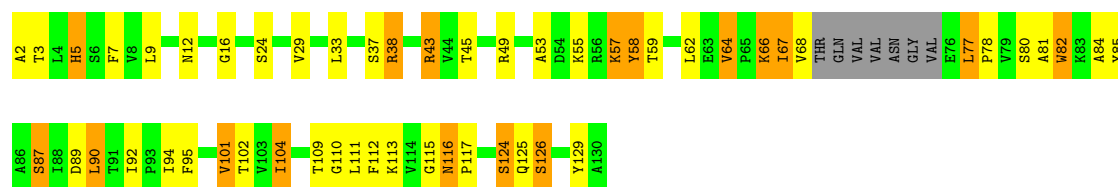
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

Note EDS was not executed.

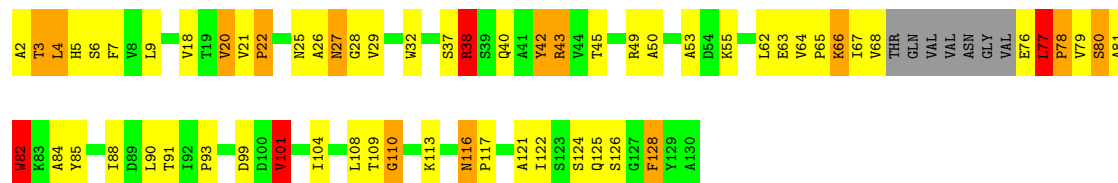
#### • Molecule 1: GA UNASSEMBLED COAT PROTEIN DIMER

Chain A: 



#### • Molecule 1: GA UNASSEMBLED COAT PROTEIN DIMER

Chain B: 



## 4 Data and refinement statistics

Xtriage (Phenix) and EDS were not executed - this section is therefore incomplete.

| Property                                                 | Value                                        | Source    |
|----------------------------------------------------------|----------------------------------------------|-----------|
| Space group                                              | P 21 21 21                                   | Depositor |
| Cell constants<br>a, b, c, $\alpha$ , $\beta$ , $\gamma$ | 59.30Å 60.50Å 67.10Å<br>90.00° 90.00° 90.00° | Depositor |
| Resolution (Å)                                           | 6.00 – 2.80                                  | Depositor |
| % Data completeness<br>(in resolution range)             | 50.0 (6.00-2.80)                             | Depositor |
| $R_{merge}$                                              | 0.07                                         | Depositor |
| $R_{sym}$                                                | (Not available)                              | Depositor |
| Refinement program                                       | PROLSQ, X-PLOR                               | Depositor |
| R, $R_{free}$                                            | 0.204 , 0.284                                | Depositor |
| Estimated twinning fraction                              | No twinning to report.                       | Xtriage   |
| Total number of atoms                                    | 1830                                         | wwPDB-VP  |
| Average B, all atoms (Å <sup>2</sup> )                   | 15.0                                         | wwPDB-VP  |

## 5 Model quality

### 5.1 Standard geometry

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

| Mol | Chain | Bond lengths |         | Bond angles |                |
|-----|-------|--------------|---------|-------------|----------------|
|     |       | RMSZ         | # Z  >5 | RMSZ        | # Z  >5        |
| 1   | A     | 0.84         | 0/932   | 1.77        | 18/1269 (1.4%) |
| 1   | B     | 0.86         | 0/932   | 1.84        | 22/1269 (1.7%) |
| All | All   | 0.85         | 0/1864  | 1.81        | 40/2538 (1.6%) |

There are no bond length outliers.

All (40) bond angle outliers are listed below:

| Mol | Chain | Res | Type | Atoms    | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|----------|-------|-------------|----------|
| 1   | B     | 5   | HIS  | CA-CB-CG | 11.08 | 124.88      | 113.80   |
| 1   | A     | 53  | ALA  | N-CA-C   | 10.14 | 124.16      | 111.69   |
| 1   | B     | 53  | ALA  | N-CA-C   | 9.89  | 122.14      | 111.36   |
| 1   | A     | 82  | TRP  | N-CA-C   | -8.75 | 97.38       | 109.71   |
| 1   | A     | 81  | ALA  | N-CA-C   | 8.24  | 123.47      | 107.98   |
| 1   | B     | 7   | PHE  | CA-CB-CG | 8.09  | 121.89      | 113.80   |
| 1   | B     | 81  | ALA  | N-CA-C   | 8.00  | 120.74      | 108.42   |
| 1   | B     | 80  | SER  | N-CA-C   | -7.29 | 98.73       | 110.32   |
| 1   | B     | 80  | SER  | CA-C-O   | -7.05 | 112.91      | 121.36   |
| 1   | B     | 20  | VAL  | CB-CA-C  | 6.91  | 120.86      | 110.63   |
| 1   | B     | 82  | TRP  | CA-CB-CG | 6.88  | 126.67      | 113.60   |
| 1   | A     | 5   | HIS  | CA-CB-CG | 6.77  | 120.57      | 113.80   |
| 1   | B     | 84  | ALA  | N-CA-C   | -6.72 | 98.28       | 109.24   |
| 1   | A     | 102 | THR  | CA-C-N   | 6.72  | 129.57      | 120.77   |
| 1   | A     | 102 | THR  | C-N-CA   | 6.72  | 129.57      | 120.77   |
| 1   | A     | 82  | TRP  | N-CA-CB  | 6.67  | 117.82      | 110.35   |
| 1   | B     | 101 | VAL  | N-CA-CB  | -6.58 | 103.39      | 111.94   |
| 1   | A     | 116 | ASN  | CB-CA-C  | 6.43  | 118.44      | 108.61   |
| 1   | B     | 128 | PHE  | CB-CA-C  | 6.19  | 120.68      | 110.78   |
| 1   | B     | 110 | GLY  | CA-C-N   | 6.05  | 128.68      | 120.38   |
| 1   | B     | 110 | GLY  | C-N-CA   | 6.05  | 128.68      | 120.38   |
| 1   | A     | 64  | VAL  | CB-CA-C  | 5.95  | 115.90      | 110.13   |
| 1   | A     | 125 | GLN  | N-CA-C   | -5.91 | 105.38      | 112.58   |
| 1   | A     | 58  | TYR  | CA-CB-CG | 5.81  | 124.36      | 113.90   |
| 1   | B     | 42  | TYR  | N-CA-C   | -5.77 | 99.88       | 109.46   |

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| Mol | Chain | Res | Type | Atoms    | Z     | Observed(°) | Ideal(°) |
|-----|-------|-----|------|----------|-------|-------------|----------|
| 1   | B     | 77  | LEU  | CA-CB-CG | 5.73  | 136.36      | 116.30   |
| 1   | B     | 116 | ASN  | CB-CA-C  | 5.68  | 117.31      | 108.61   |
| 1   | A     | 101 | VAL  | N-CA-CB  | -5.57 | 104.70      | 111.94   |
| 1   | A     | 84  | ALA  | N-CA-C   | -5.51 | 100.72      | 109.76   |
| 1   | A     | 29  | VAL  | N-CA-C   | 5.50  | 116.68      | 108.54   |
| 1   | B     | 82  | TRP  | N-CA-C   | -5.37 | 99.36       | 110.80   |
| 1   | B     | 128 | PHE  | CA-CB-CG | -5.37 | 108.43      | 113.80   |
| 1   | B     | 40  | GLN  | N-CA-C   | 5.25  | 119.84      | 113.38   |
| 1   | A     | 55  | LYS  | N-CA-C   | 5.25  | 117.16      | 109.24   |
| 1   | A     | 115 | GLY  | N-CA-C   | -5.25 | 107.98      | 115.64   |
| 1   | A     | 7   | PHE  | CA-CB-CG | 5.20  | 119.00      | 113.80   |
| 1   | B     | 99  | ASP  | N-CA-C   | 5.20  | 117.43      | 110.35   |
| 1   | B     | 22  | PRO  | CB-CA-C  | 5.16  | 117.70      | 111.46   |
| 1   | B     | 101 | VAL  | CB-CA-C  | 5.16  | 119.42      | 112.36   |
| 1   | A     | 125 | GLN  | CA-C-O   | 5.10  | 126.69      | 120.57   |

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts ⓘ

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

| Mol | Chain | Non-H | H(model) | H(added) | Clashes | Symm-Clashes |
|-----|-------|-------|----------|----------|---------|--------------|
| 1   | A     | 915   | 0        | 920      | 33      | 0            |
| 1   | B     | 915   | 0        | 920      | 44      | 1            |
| All | All   | 1830  | 0        | 1840     | 61      | 1            |

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 17.

All (61) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

| Atom-1           | Atom-2           | Interatomic distance (Å) | Clash overlap (Å) |
|------------------|------------------|--------------------------|-------------------|
| 1:B:101:VAL:HG13 | 1:B:104:ILE:HD12 | 1.73                     | 0.71              |
| 1:A:124:SER:HB2  | 1:A:126:SER:HB2  | 1.72                     | 0.70              |
| 1:A:57:LYS:HE2   | 1:A:89:ASP:HB3   | 1.72                     | 0.70              |

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| Atom-1           | Atom-2           | Interatomic distance (Å) | Clash overlap (Å) |
|------------------|------------------|--------------------------|-------------------|
| 1:A:77:LEU:HA    | 1:A:80:SER:HB3   | 1.72                     | 0.69              |
| 1:B:20:VAL:HG22  | 1:B:32:TRP:HB3   | 1.75                     | 0.69              |
| 1:A:66:LYS:HE3   | 1:B:101:VAL:HG22 | 1.77                     | 0.67              |
| 1:B:66:LYS:HB3   | 1:B:68:VAL:HG22  | 1.78                     | 0.66              |
| 1:B:66:LYS:HB2   | 1:B:66:LYS:HZ2   | 1.65                     | 0.62              |
| 1:A:117:PRO:HB3  | 1:B:3:THR:O      | 2.03                     | 0.59              |
| 1:B:66:LYS:O     | 1:B:68:VAL:N     | 2.39                     | 0.56              |
| 1:A:58:TYR:HB2   | 1:A:90:LEU:HD23  | 1.87                     | 0.55              |
| 1:B:66:LYS:C     | 1:B:68:VAL:H     | 2.14                     | 0.55              |
| 1:A:90:LEU:HA    | 1:B:85:TYR:O     | 2.07                     | 0.54              |
| 1:A:95:PHE:H     | 1:B:125:GLN:HE22 | 1.57                     | 0.53              |
| 1:A:3:THR:CG2    | 1:B:121:ALA:HB2  | 2.39                     | 0.52              |
| 1:B:55:LYS:HA    | 1:B:93:PRO:HA    | 1.92                     | 0.51              |
| 1:A:37:SER:O     | 1:A:38:ARG:C     | 2.54                     | 0.50              |
| 1:A:113:LYS:O    | 1:A:116:ASN:HB2  | 2.12                     | 0.50              |
| 1:B:25:ASN:O     | 1:B:27:ASN:N     | 2.45                     | 0.50              |
| 1:A:12:ASN:ND2   | 1:A:16:GLY:O     | 2.39                     | 0.49              |
| 1:A:112:PHE:CD1  | 1:B:108:LEU:HD13 | 2.47                     | 0.49              |
| 1:A:3:THR:O      | 1:B:117:PRO:HB3  | 2.12                     | 0.49              |
| 1:B:76:GLU:O     | 1:B:78:PRO:HD3   | 2.11                     | 0.49              |
| 1:A:77:LEU:N     | 1:A:78:PRO:HD3   | 2.28                     | 0.49              |
| 1:B:76:GLU:C     | 1:B:78:PRO:HD3   | 2.38                     | 0.48              |
| 1:B:4:LEU:HD22   | 1:B:22:PRO:HB3   | 1.94                     | 0.48              |
| 1:A:87:SER:O     | 1:B:88:ILE:HA    | 2.14                     | 0.48              |
| 1:B:113:LYS:O    | 1:B:116:ASN:HB2  | 2.14                     | 0.48              |
| 1:A:90:LEU:HD11  | 1:A:92:ILE:HD11  | 1.96                     | 0.48              |
| 1:B:18:VAL:HG11  | 1:B:42:TYR:CD1   | 2.49                     | 0.48              |
| 1:B:78:PRO:HD2   | 1:B:79:VAL:H     | 1.79                     | 0.47              |
| 1:B:66:LYS:C     | 1:B:68:VAL:N     | 2.72                     | 0.47              |
| 1:B:37:SER:O     | 1:B:38:ARG:C     | 2.57                     | 0.47              |
| 1:B:55:LYS:HD3   | 1:B:91:THR:CG2   | 2.45                     | 0.46              |
| 1:B:66:LYS:HB2   | 1:B:66:LYS:NZ    | 2.28                     | 0.46              |
| 1:A:110:GLY:HA3  | 1:B:9:LEU:O      | 2.16                     | 0.46              |
| 1:A:129:TYR:CE1  | 1:B:2:ALA:HA     | 2.50                     | 0.46              |
| 1:A:2:ALA:O      | 1:A:5:HIS:HD2    | 1.99                     | 0.46              |
| 1:A:58:TYR:O     | 1:A:89:ASP:HA    | 2.16                     | 0.45              |
| 1:A:101:VAL:HG22 | 1:B:66:LYS:HD3   | 1.99                     | 0.45              |
| 1:A:101:VAL:HG22 | 1:B:66:LYS:CD    | 2.47                     | 0.45              |
| 1:A:90:LEU:CD1   | 1:A:92:ILE:HD11  | 2.47                     | 0.45              |
| 1:A:33:LEU:CD1   | 1:A:43:ARG:HG2   | 2.47                     | 0.44              |
| 1:B:49:ARG:HG3   | 1:B:50:ALA:N     | 2.32                     | 0.44              |

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| Atom-1           | Atom-2           | Interatomic distance (Å) | Clash overlap (Å) |
|------------------|------------------|--------------------------|-------------------|
| 1:A:94:ILE:HA    | 1:B:125:GLN:NE2  | 2.33                     | 0.43              |
| 1:B:55:LYS:HB3   | 1:B:93:PRO:HA    | 2.01                     | 0.43              |
| 1:A:67:ILE:O     | 1:A:68:VAL:C     | 2.62                     | 0.43              |
| 1:B:43:ARG:O     | 1:B:62:LEU:HD12  | 2.19                     | 0.43              |
| 1:A:58:TYR:CB    | 1:A:90:LEU:HD23  | 2.49                     | 0.42              |
| 1:B:63:GLU:HG2   | 1:B:85:TYR:CD1   | 2.54                     | 0.42              |
| 1:A:90:LEU:HD13  | 1:A:104:ILE:HD11 | 2.02                     | 0.42              |
| 1:A:85:TYR:O     | 1:B:90:LEU:HA    | 2.20                     | 0.42              |
| 1:B:21:VAL:HG23  | 1:B:22:PRO:HD2   | 2.02                     | 0.42              |
| 1:B:25:ASN:HA    | 1:B:29:VAL:O     | 2.19                     | 0.42              |
| 1:B:64:VAL:HA    | 1:B:65:PRO:HD2   | 1.90                     | 0.41              |
| 1:A:9:LEU:O      | 1:B:110:GLY:HA3  | 2.20                     | 0.41              |
| 1:B:68:VAL:HG23  | 1:B:82:TRP:CD1   | 2.55                     | 0.41              |
| 1:B:77:LEU:HB2   | 1:B:80:SER:O     | 2.21                     | 0.41              |
| 1:A:3:THR:HG22   | 1:B:128:PHE:CD1  | 2.57                     | 0.40              |
| 1:B:55:LYS:HD3   | 1:B:91:THR:HG22  | 2.03                     | 0.40              |
| 1:A:111:LEU:HD23 | 1:A:112:PHE:CZ   | 2.57                     | 0.40              |

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.

| Atom-1         | Atom-2                  | Interatomic distance (Å) | Clash overlap (Å) |
|----------------|-------------------------|--------------------------|-------------------|
| 1:B:38:ARG:NH2 | 1:B:125:GLN:OE1[4_4511] | 2.00                     | 0.20              |

## 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.

| Mol | Chain | Analysed      | Favoured  | Allowed | Outliers | Percentiles |    |
|-----|-------|---------------|-----------|---------|----------|-------------|----|
| 1   | A     | 118/129 (92%) | 107 (91%) | 9 (8%)  | 2 (2%)   | 7           | 25 |
| 1   | B     | 118/129 (92%) | 108 (92%) | 4 (3%)  | 6 (5%)   | 1           | 5  |
| All | All   | 236/258 (92%) | 215 (91%) | 13 (6%) | 8 (3%)   | 3           | 11 |

All (8) Ramachandran outliers are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | A     | 67  | ILE  |
| 1   | B     | 26  | ALA  |
| 1   | B     | 67  | ILE  |
| 1   | B     | 27  | ASN  |
| 1   | A     | 38  | ARG  |
| 1   | B     | 38  | ARG  |
| 1   | B     | 78  | PRO  |
| 1   | B     | 28  | GLY  |

### 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.

| Mol | Chain | Analysed      | Rotameric | Outliers | Percentiles |    |
|-----|-------|---------------|-----------|----------|-------------|----|
| 1   | A     | 99/105 (94%)  | 82 (83%)  | 17 (17%) | 2           | 7  |
| 1   | B     | 99/105 (94%)  | 85 (86%)  | 14 (14%) | 3           | 12 |
| All | All   | 198/210 (94%) | 167 (84%) | 31 (16%) | 2           | 9  |

All (31) residues with a non-rotameric sidechain are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | A     | 24  | SER  |
| 1   | A     | 43  | ARG  |
| 1   | A     | 45  | THR  |
| 1   | A     | 49  | ARG  |
| 1   | A     | 57  | LYS  |
| 1   | A     | 59  | THR  |
| 1   | A     | 62  | LEU  |
| 1   | A     | 64  | VAL  |
| 1   | A     | 66  | LYS  |
| 1   | A     | 77  | LEU  |
| 1   | A     | 82  | TRP  |
| 1   | A     | 87  | SER  |
| 1   | A     | 90  | LEU  |
| 1   | A     | 104 | ILE  |
| 1   | A     | 109 | THR  |

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| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | A     | 124 | SER  |
| 1   | A     | 126 | SER  |
| 1   | B     | 3   | THR  |
| 1   | B     | 4   | LEU  |
| 1   | B     | 6   | SER  |
| 1   | B     | 38  | ARG  |
| 1   | B     | 43  | ARG  |
| 1   | B     | 45  | THR  |
| 1   | B     | 66  | LYS  |
| 1   | B     | 77  | LEU  |
| 1   | B     | 82  | TRP  |
| 1   | B     | 101 | VAL  |
| 1   | B     | 109 | THR  |
| 1   | B     | 122 | ILE  |
| 1   | B     | 124 | SER  |
| 1   | B     | 126 | SER  |

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

| Mol | Chain | Res | Type |
|-----|-------|-----|------|
| 1   | A     | 25  | ASN  |
| 1   | A     | 40  | GLN  |
| 1   | B     | 5   | HIS  |
| 1   | B     | 125 | GLN  |

### 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 oligosaccharides in this entry.

## 5.6 Ligand geometry

There are no ligands in this entry.

## 5.7 Other polymers

There are no such residues in this entry.

## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

## 6 Fit of model and data

### 6.1 Protein, DNA and RNA chains

EDS was not executed - this section is therefore empty.

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

EDS was not executed - this section is therefore empty.

### 6.3 Carbohydrates

EDS was not executed - this section is therefore empty.

### 6.4 Ligands

EDS was not executed - this section is therefore empty.

### 6.5 Other polymers

EDS was not executed - this section is therefore empty.