



# wwPDB NMR Structure Validation Summary Report ⓘ

May 7, 2024 – 04:04 pm BST

PDB ID : 2C52  
BMRB ID : 6874  
Title : Structural diversity in CBP p160 complexes  
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Deposited on : 2005-10-25

This is a wwPDB NMR Structure Validation Summary 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/NMRValidationReportHelp>

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:

Cyrange : **FAILED**  
NmrClust : **FAILED**  
MolProbity : **FAILED**  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
wwPDB-RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
wwPDB-ShiftChecker : v1.2  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36.2

## 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.

There are no overall percentile quality scores available for this entry.

The sequence quality summary graphics cannot be shown.

## 2 Ensemble composition and analysis

This entry contains 37 models. The atoms present in the NMR models are not consistent. Some calculations may have failed as a result. All residues are included in the validation scores.

Cyrange was unable to find well-defined residues.

Error message: Cyrange did not run

NmrClust was unable to cluster the ensemble.

Error message: NmrClust did not run

### 3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 1804 atoms, of which 913 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called CREB-BINDING PROTEIN.

| Mol | Chain | Residues | Atoms |     |     |    |    | Trace |   |
|-----|-------|----------|-------|-----|-----|----|----|-------|---|
|     |       |          | Total | C   | H   | N  | O  |       | S |
| 1   | A     | 58       | 910   | 281 | 460 | 84 | 83 | 2     | 0 |

- Molecule 2 is a protein called NUCLEAR RECEPTOR COACTIVATOR 1.

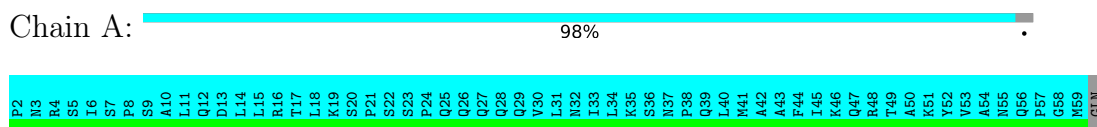
| Mol | Chain | Residues | Atoms |     |     |    |    | Trace |
|-----|-------|----------|-------|-----|-----|----|----|-------|
|     |       |          | Total | C   | H   | N  | O  |       |
| 2   | B     | 59       | 894   | 275 | 453 | 75 | 91 | 0     |

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

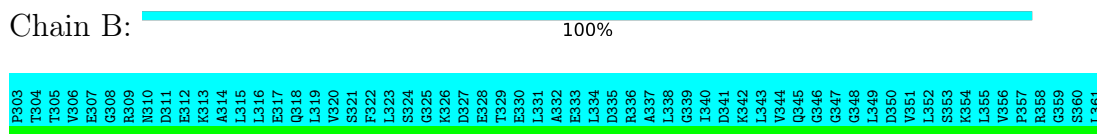
### 4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide 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: CREB-BINDING PROTEIN



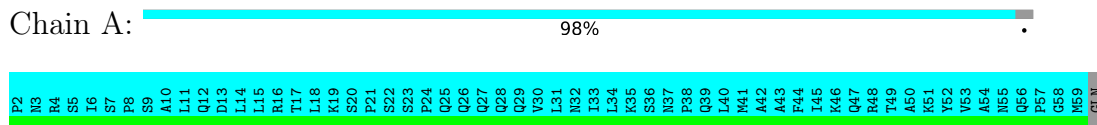
- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1



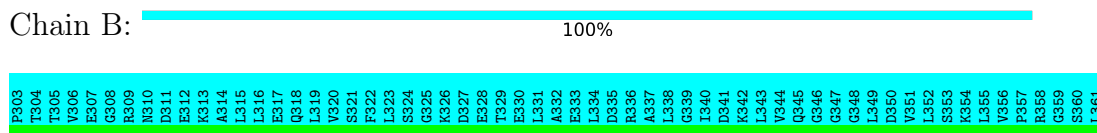
### 4.2 Residue scores for the representative (author defined) model from the NMR ensemble

The representative model is number 20. Colouring as in section 4.1 above.

- Molecule 1: CREB-BINDING PROTEIN



- Molecule 2: NUCLEAR RECEPTOR COACTIVATOR 1



## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *CANDID*.

Of the ? calculated structures, 37 were deposited, based on the following criterion: ?.

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

| Software name | Classification     | Version |
|---------------|--------------------|---------|
| CYANA         | refinement         |         |
| CYANA         | structure solution |         |

No chemical shift data was provided.

## 6 Model quality [i](#)

### 6.1 Standard geometry [i](#)

MolProbity failed to run properly - this section will have to be empty.

### 6.2 Too-close contacts [i](#)

MolProbity failed to run properly - this section will have to be empty.

### 6.3 Torsion angles [i](#)

#### 6.3.1 Protein backbone [i](#)

MolProbity failed to run properly - this section will have to be empty.

#### 6.3.2 Protein sidechains [i](#)

MolProbity failed to run properly - this section will have to be empty.

#### 6.3.3 RNA [i](#)

MolProbity failed to run properly - this section will have to be empty.

### 6.4 Non-standard residues in protein, DNA, RNA chains [i](#)

MolProbity failed to run properly - this section will have to be empty.

### 6.5 Carbohydrates [i](#)

MolProbity failed to run properly - this section will have to be empty.

### 6.6 Ligand geometry [i](#)

MolProbity failed to run properly - this section will have to be empty.

### 6.7 Other polymers [i](#)

MolProbity failed to run properly - this section will have to be empty.

## 6.8 Polymer linkage issues

There are no chain breaks in this entry.



## 7 Chemical shift validation

No chemical shift data were provided