



# Full wwPDB NMR Structure Validation Report ⓘ

May 29, 2020 – 08:17 am BST

PDB ID : 5U4K  
Title : NMR structure of the complex between the KIX domain of CBP and the transactivation domain 1 of p65  
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Deposited on : 2016-12-05

This is a Full wwPDB NMR 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/NMRValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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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  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
ShiftChecker : 2.11  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.11

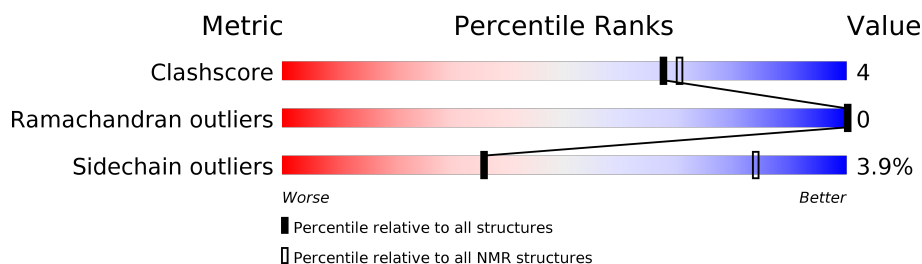
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 89%.

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 (#Entries)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

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  $\geq 3$ , 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  $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	87	 82% 6% 13%
2	B	33	 48% 52%

## 2 Ensemble composition and analysis

This entry contains 20 models. Model 16 is the overall representative, medoid model (most similar to other models).

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

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:590-A:665, B:536-B:551 (92)	0.45	16

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 4 clusters. No single-model clusters were found.

Cluster number	Models
1	2, 4, 6, 8, 9, 10, 13, 14, 15, 16, 20
2	1, 5, 17, 18, 19
3	3, 7
4	11, 12

### 3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 1922 atoms, of which 956 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called CREB-binding protein.

Mol	Chain	Residues	Atoms						Trace
1	A	87	Total	C	H	N	O	S	0
			1469	459	740	136	132	2	

- Molecule 2 is a protein called Transcription factor p65.

Mol	Chain	Residues	Atoms						Trace
2	B	33	Total	C	H	N	O	S	0
			453	146	216	35	55	1	

There are 3 discrepancies between the modelled and reference sequences:

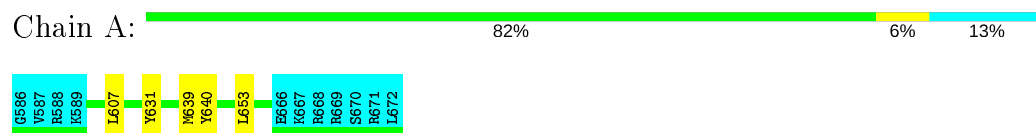
Chain	Residue	Modelled	Actual	Comment	Reference
B	519	GLY	-	expression tag	UNP Q04206
B	520	SER	-	expression tag	UNP Q04206
B	523	TYR	LEU	engineered mutation	UNP Q04206

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

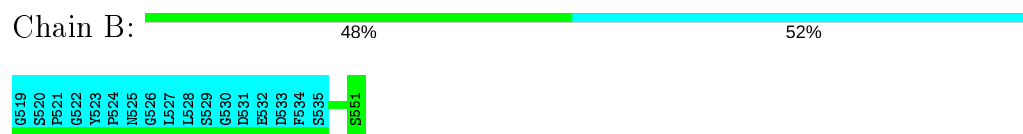
### 4.1 Average score per residue in the NMR ensemble

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: CREB-binding protein



- Molecule 2: Transcription factor p65

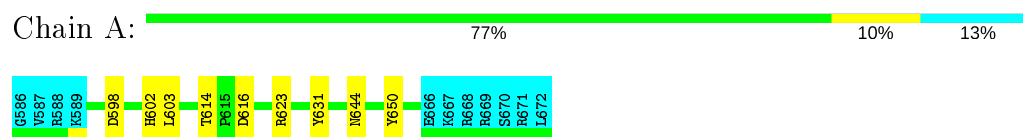


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

#### 4.2.1 Score per residue for model 1

- Molecule 1: CREB-binding protein



- Molecule 2: Transcription factor p65



### 4.2.2 Score per residue for model 2

- Molecule 1: CREB-binding protein

Chain A: 79% 7% 13%



- Molecule 2: Transcription factor p65

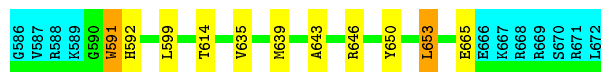
Chain B: 48% 52%



### 4.2.3 Score per residue for model 3

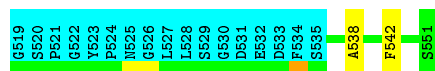
- Molecule 1: CREB-binding protein

Chain A: 75% 10% 13%



- Molecule 2: Transcription factor p65

Chain B: 42% 6% 52%



### 4.2.4 Score per residue for model 4

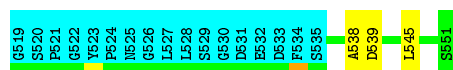
- Molecule 1: CREB-binding protein

Chain A: 78% 8% 13%



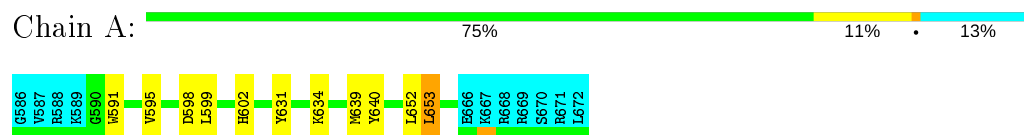
- Molecule 2: Transcription factor p65

Chain B: 39% 9% 52%

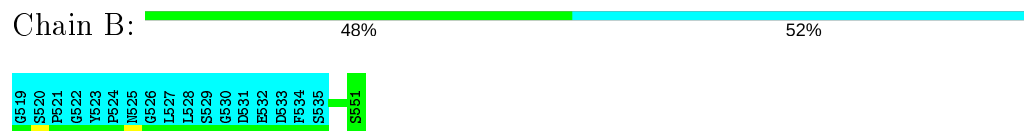


### 4.2.5 Score per residue for model 5

- Molecule 1: CREB-binding protein

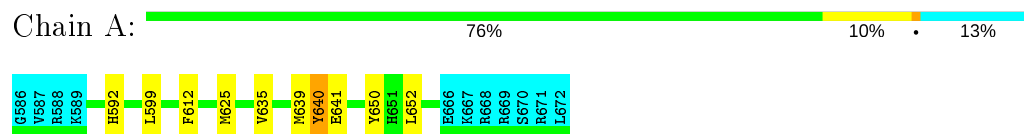


- Molecule 2: Transcription factor p65

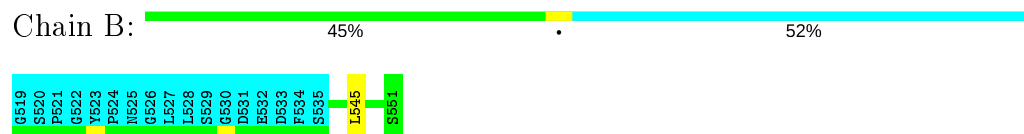


### 4.2.6 Score per residue for model 6

- Molecule 1: CREB-binding protein

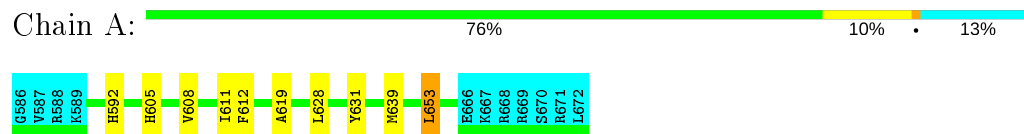


- Molecule 2: Transcription factor p65

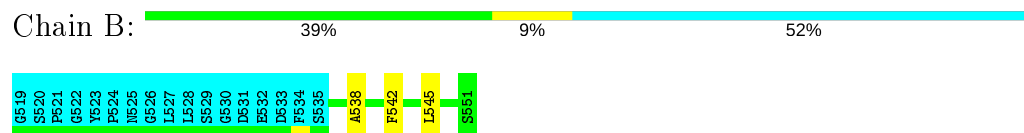


### 4.2.7 Score per residue for model 7

- Molecule 1: CREB-binding protein

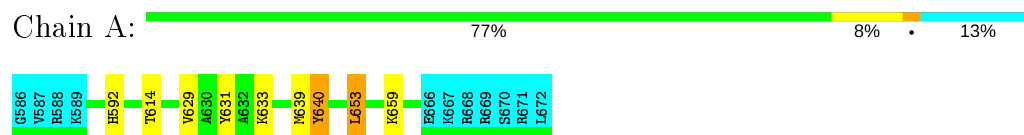


- Molecule 2: Transcription factor p65

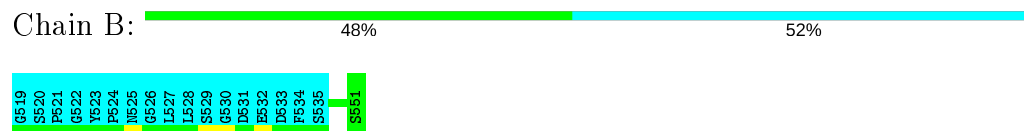


### 4.2.8 Score per residue for model 8

- Molecule 1: CREB-binding protein

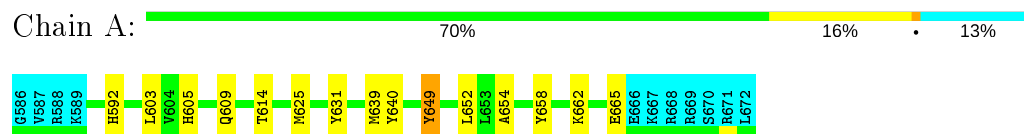


- Molecule 2: Transcription factor p65

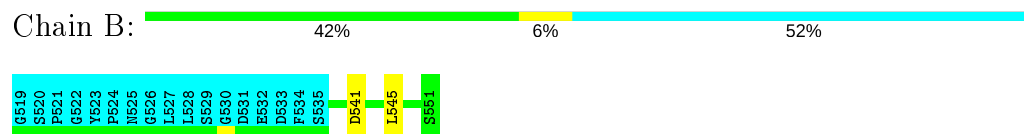


### 4.2.9 Score per residue for model 9

- Molecule 1: CREB-binding protein

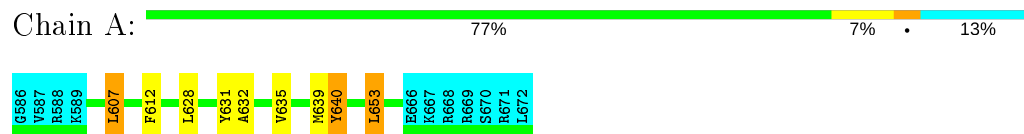


- Molecule 2: Transcription factor p65

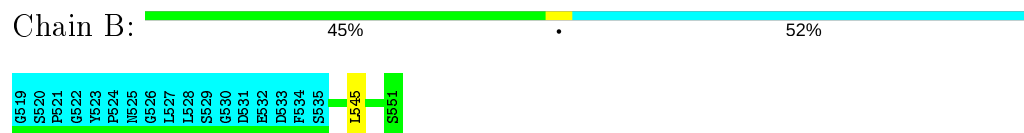


### 4.2.10 Score per residue for model 10

- Molecule 1: CREB-binding protein



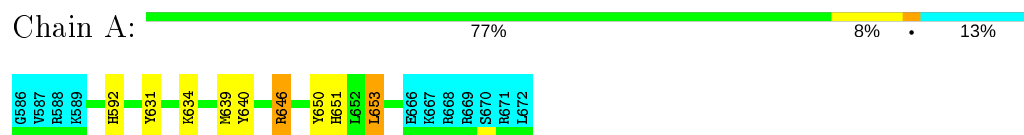
- Molecule 2: Transcription factor p65



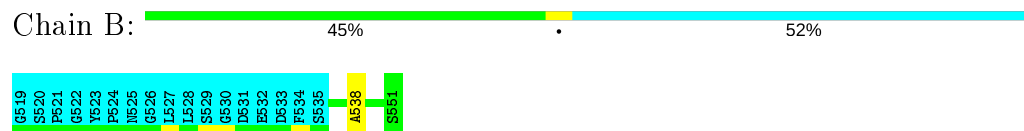


### 4.2.11 Score per residue for model 11

- Molecule 1: CREB-binding protein

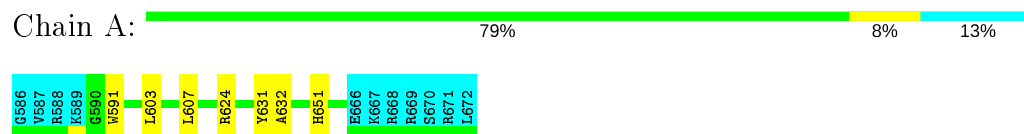


- Molecule 2: Transcription factor p65

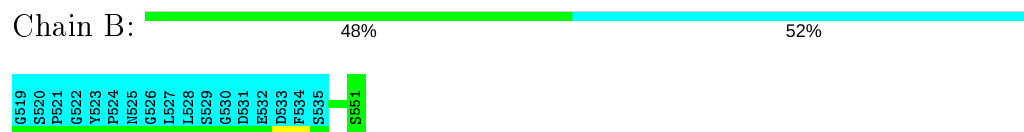


### 4.2.12 Score per residue for model 12

- Molecule 1: CREB-binding protein

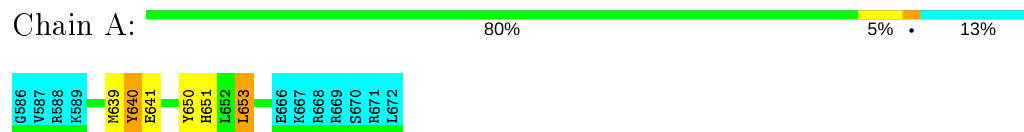


- Molecule 2: Transcription factor p65

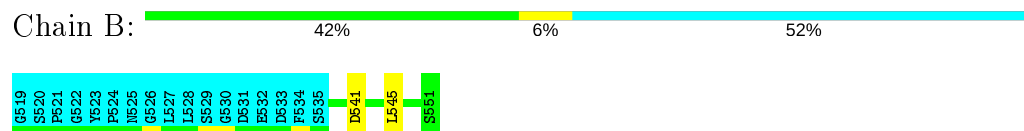


### 4.2.13 Score per residue for model 13

- Molecule 1: CREB-binding protein




- Molecule 2: Transcription factor p65




#### 4.2.14 Score per residue for model 14

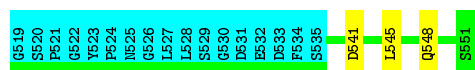
- Molecule 1: CREB-binding protein

Chain A:  79% 8% 13%



- Molecule 2: Transcription factor p65

Chain B:  39% 9% 52%



#### 4.2.15 Score per residue for model 15

- Molecule 1: CREB-binding protein

Chain A:  67% 21% 13%



- Molecule 2: Transcription factor p65

Chain B:  45% 52%



#### 4.2.16 Score per residue for model 16 (medoid)

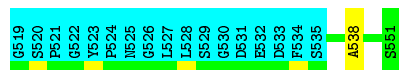
- Molecule 1: CREB-binding protein

Chain A:  76% 10% 13%



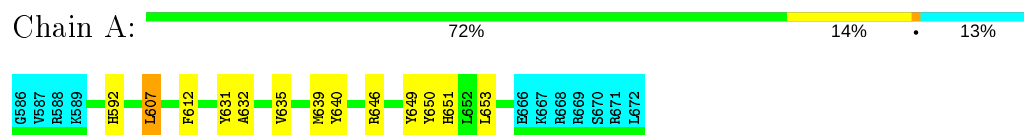
- Molecule 2: Transcription factor p65

Chain B:  45% 52%

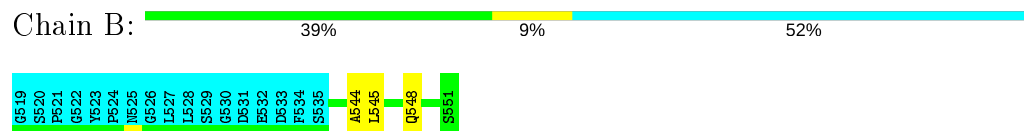


### 4.2.17 Score per residue for model 17

- Molecule 1: CREB-binding protein

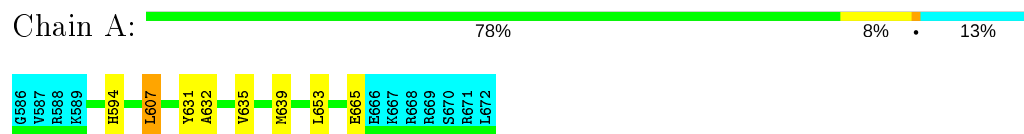


- Molecule 2: Transcription factor p65

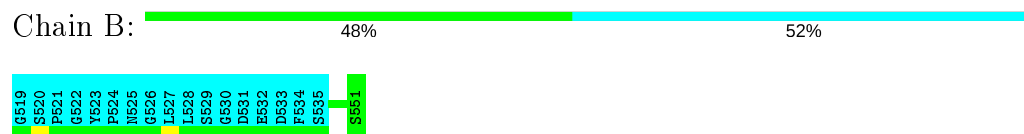


### 4.2.18 Score per residue for model 18

- Molecule 1: CREB-binding protein

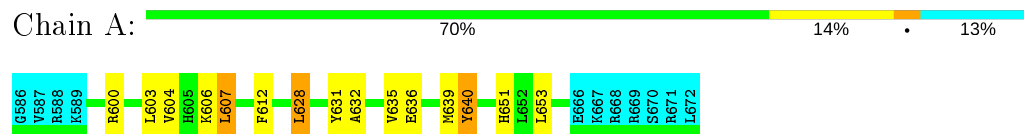


- Molecule 2: Transcription factor p65

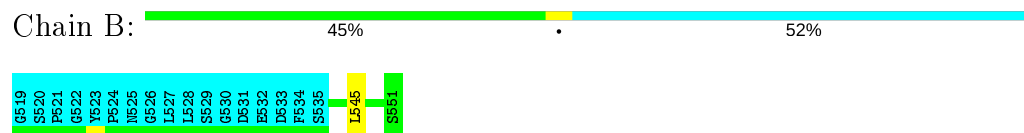


### 4.2.19 Score per residue for model 19

- Molecule 1: CREB-binding protein




- Molecule 2: Transcription factor p65




#### 4.2.20 Score per residue for model 20

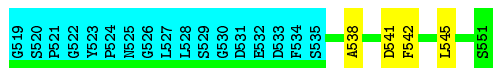
- Molecule 1: CREB-binding protein

Chain A:  78% 7% 13%



- Molecule 2: Transcription factor p65

Chain B:  36% 12% 52%



## 5 Refinement protocol and experimental data overview

Of the ? calculated structures, 20 were deposited, based on the following criterion: ?.

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

Software name	Classification	Version
ARIA	structure calculation	
CNS	refinement	

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	input_cs.cif
Number of chemical shift lists	1
Total number of shifts	1439
Number of shifts mapped to atoms	1439
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	89%

No validations of the models with respect to experimental NMR restraints is performed at this time.

## 6 Model quality [i](#)

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

There are no covalent bond-length or bond-angle outliers.

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.

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.3±0.5
All	All	0	7

There are no bond-length outliers.

There are no bond-angle outliers.

There are no chirality outliers.

All unique planar outliers are listed below.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	631	TYR	Sidechain	7

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

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.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	632	626	621	6±3
2	B	117	113	113	1±1
All	All	14980	14780	14680	117

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 4.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:607:LEU:HD13	1:A:632:ALA:HB1	0.94	1.34	19	3

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:639:MET:SD	1:A:653:LEU:HB2	0.69	2.26	3	10
1:A:607:LEU:HD13	1:A:632:ALA:CB	0.65	2.17	19	2
1:A:612:PHE:CG	2:B:545:LEU:HD13	0.63	2.28	19	1
1:A:612:PHE:CD2	2:B:545:LEU:HD13	0.61	2.30	19	3
1:A:646:ARG:O	1:A:650:TYR:CD1	0.58	2.56	15	4
1:A:650:TYR:HA	1:A:653:LEU:HD23	0.57	1.76	4	2
1:A:607:LEU:HD23	1:A:632:ALA:HB1	0.57	1.75	17	4
1:A:639:MET:SD	1:A:653:LEU:HG	0.57	2.40	10	1
1:A:640:TYR:C	1:A:640:TYR:CD1	0.57	2.78	8	1
1:A:640:TYR:C	1:A:640:TYR:CD2	0.57	2.78	19	1
1:A:639:MET:SD	1:A:652:LEU:HB3	0.55	2.41	6	2
1:A:591:TRP:NE1	1:A:595:VAL:HG21	0.55	2.17	15	1
1:A:625:MET:N	2:B:545:LEU:HD21	0.55	2.16	20	1
1:A:612:PHE:CG	2:B:545:LEU:CD1	0.54	2.90	19	1
1:A:635:VAL:O	1:A:639:MET:HG2	0.54	2.02	6	1
1:A:599:LEU:HD21	1:A:650:TYR:OH	0.54	2.03	6	2
1:A:635:VAL:O	1:A:639:MET:HG3	0.54	2.03	19	5
1:A:640:TYR:CE2	1:A:641:GLU:HG3	0.53	2.38	13	1
1:A:639:MET:HE1	1:A:653:LEU:HD22	0.53	1.80	18	1
1:A:640:TYR:CD1	1:A:640:TYR:C	0.52	2.83	6	3
1:A:603:LEU:CD1	1:A:649:TYR:OH	0.52	2.58	9	1
1:A:628:LEU:HD23	1:A:631:TYR:CD2	0.51	2.40	2	2
1:A:603:LEU:O	1:A:653:LEU:HD21	0.51	2.06	16	1
1:A:607:LEU:HD22	1:A:653:LEU:CD1	0.50	2.37	16	1
1:A:598:ASP:O	1:A:602:HIS:CD2	0.49	2.66	5	2
1:A:605:HIS:O	1:A:609:GLN:HG2	0.49	2.07	15	4
1:A:619:ALA:HB1	2:B:545:LEU:HD11	0.49	1.85	7	1
1:A:619:ALA:O	2:B:545:LEU:CD1	0.49	2.61	7	1
2:B:541:ASP:O	2:B:545:LEU:HG	0.48	2.08	14	2
1:A:595:VAL:HA	1:A:599:LEU:HD12	0.48	1.85	5	1
1:A:636:GLU:OE2	1:A:649:TYR:OH	0.48	2.31	15	1
1:A:612:PHE:O	1:A:612:PHE:CD1	0.48	2.67	7	1
1:A:611:ILE:HG12	1:A:660:ILE:HG21	0.47	1.87	14	1
1:A:654:ALA:O	1:A:658:TYR:CD1	0.47	2.68	15	3
1:A:592:HIS:CD2	1:A:592:HIS:C	0.47	2.88	7	1
1:A:639:MET:SD	1:A:649:TYR:O	0.47	2.73	17	1
1:A:619:ALA:O	2:B:545:LEU:HD11	0.46	2.10	7	1
1:A:607:LEU:HB2	1:A:653:LEU:HD11	0.46	1.85	16	1
1:A:639:MET:SD	1:A:653:LEU:HB3	0.46	2.50	5	2
1:A:605:HIS:HA	1:A:608:VAL:HG22	0.46	1.87	7	1
1:A:607:LEU:CD1	1:A:632:ALA:HB1	0.46	2.25	19	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:614:THR:CG2	1:A:616:ASP:O	0.46	2.64	1	1
2:B:538:ALA:O	2:B:542:PHE:HB2	0.46	2.11	20	1
1:A:604:VAL:HG23	1:A:636:GLU:OE1	0.45	2.12	19	1
1:A:607:LEU:CD2	1:A:632:ALA:HB1	0.45	2.41	15	2
1:A:591:TRP:CZ3	1:A:640:TYR:CD1	0.45	3.05	5	1
1:A:628:LEU:O	1:A:631:TYR:HB2	0.45	2.11	10	1
1:A:639:MET:SD	1:A:652:LEU:CB	0.44	3.04	6	1
1:A:607:LEU:HD22	1:A:653:LEU:HD11	0.44	1.87	16	1
1:A:640:TYR:CD2	1:A:641:GLU:HG3	0.44	2.48	13	1
1:A:595:VAL:HG13	1:A:599:LEU:HD23	0.44	1.90	4	1
1:A:612:PHE:CZ	2:B:545:LEU:HB3	0.44	2.48	4	2
1:A:640:TYR:O	1:A:640:TYR:CD1	0.43	2.71	8	1
1:A:639:MET:HG2	1:A:652:LEU:HB2	0.43	1.89	5	1
1:A:640:TYR:CE2	1:A:641:GLU:CG	0.43	3.02	13	1
1:A:611:ILE:HG21	1:A:628:LEU:HD21	0.42	1.91	7	1
1:A:600:ARG:HG2	1:A:636:GLU:OE2	0.42	2.14	15	1
1:A:603:LEU:HA	1:A:606:LYS:HB2	0.42	1.90	19	1
2:B:544:ALA:O	2:B:548:GLN:HG2	0.42	2.15	17	1
1:A:632:ALA:O	1:A:635:VAL:HG22	0.42	2.14	19	1
1:A:595:VAL:HG22	1:A:599:LEU:HD23	0.42	1.92	15	1
1:A:591:TRP:CD1	1:A:592:HIS:N	0.42	2.88	3	1
1:A:607:LEU:HD11	1:A:635:VAL:CG2	0.42	2.45	19	1
2:B:542:PHE:O	2:B:542:PHE:CD1	0.41	2.73	7	1
1:A:591:TRP:HZ3	1:A:640:TYR:CD1	0.41	2.34	5	1
2:B:545:LEU:HD23	2:B:548:GLN:NE2	0.41	2.31	14	1
1:A:646:ARG:HG3	1:A:650:TYR:CE1	0.41	2.51	3	1
1:A:603:LEU:HD21	1:A:650:TYR:CE2	0.40	2.50	1	1
1:A:600:ARG:O	1:A:636:GLU:OE1	0.40	2.40	19	1
1:A:629:VAL:O	1:A:633:LYS:HG3	0.40	2.16	8	1
2:B:541:ASP:O	2:B:545:LEU:HB2	0.40	2.16	13	1
1:A:591:TRP:CH2	1:A:643:ALA:O	0.40	2.74	3	1
1:A:640:TYR:OH	1:A:649:TYR:OH	0.40	2.39	9	1
1:A:631:TYR:O	1:A:634:LYS:HB3	0.40	2.16	5	1
1:A:662:LYS:O	1:A:665:GLU:HB2	0.40	2.16	9	1
1:A:592:HIS:O	1:A:592:HIS:CD2	0.40	2.74	7	1



## 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.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	76/87 (87%)	76±0 (100±1%)	0±0 (0±1%)	0±0 (0±0%)	100	100
2	B	15/33 (45%)	15±0 (100±0%)	0±0 (0±0%)	0±0 (0±0%)	100	100
All	All	1820/2400 (76%)	1815 (100%)	5 (0%)	0 (0%)	100	100

There are no Ramachandran outliers.

### 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.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	67/77 (87%)	64±1 (95±2%)	3±1 (5±2%)	31	79
2	B	14/27 (52%)	14±0 (99±2%)	0±0 (1±2%)	84	97
All	All	1620/2080 (78%)	1557 (96%)	63 (4%)	36	84

All 21 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	653	LEU	12
1	A	640	TYR	9
1	A	592	HIS	6
1	A	625	MET	6
1	A	651	HIS	5
1	A	607	LEU	4
1	A	614	THR	4
1	A	631	TYR	2
1	A	628	LEU	2
1	A	665	GLU	2

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Mol	Chain	Res	Type	Models (Total)
1	A	634	LYS	1
2	B	541	ASP	1
1	A	646	ARG	1
1	A	591	TRP	1
1	A	623	ARG	1
1	A	603	LEU	1
1	A	624	ARG	1
1	A	594	HIS	1
1	A	649	TYR	1
1	A	641	GLU	1
2	B	542	PHE	1

### 6.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

## 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 [i](#)

The completeness of assignment taking into account all chemical shift lists is 89% for the well-defined parts and 86% for the entire structure.

### 7.1 Chemical shift list 1

File name: input\_cs.cif

Chemical shift list name: *referenced\_CSfile.str*

#### 7.1.1 Bookkeeping [i](#)

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	1439
Number of shifts mapped to atoms	1439
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	1

#### 7.1.2 Chemical shift referencing [i](#)

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	119	$-0.12 \pm 0.07$	None needed ( $< 0.5$ ppm)
$^{13}\text{C}_\beta$	112	$0.36 \pm 0.04$	None needed ( $< 0.5$ ppm)
$^{13}\text{C}'$	110	$0.11 \pm 0.16$	None needed ( $< 0.5$ ppm)
$^{15}\text{N}$	110	$0.23 \pm 0.19$	None needed ( $< 0.5$ ppm)

#### 7.1.3 Completeness of resonance assignments [i](#)

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 89%, i.e. 1036 atoms were assigned a chemical shift out of a possible 1170. 0 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	450/454 (99%)	181/181 (100%)	180/184 (98%)	89/89 (100%)
Sidechain	513/606 (85%)	306/356 (86%)	201/225 (89%)	6/25 (24%)

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	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Aromatic	73/110 (66%)	37/56 (66%)	35/43 (81%)	1/11 (9%)
Overall	1036/1170 (89%)	524/593 (88%)	416/452 (92%)	96/125 (77%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 86%, i.e. 1302 atoms were assigned a chemical shift out of a possible 1519. 0 out of 19 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	<sup>1</sup> H	<sup>13</sup> C	<sup>15</sup> N
Backbone	565/590 (96%)	226/235 (96%)	229/240 (95%)	110/115 (96%)
Sidechain	648/802 (81%)	389/474 (82%)	252/288 (88%)	7/40 (18%)
Aromatic	89/127 (70%)	45/65 (69%)	43/51 (84%)	1/11 (9%)
Overall	1302/1519 (86%)	660/774 (85%)	524/579 (91%)	118/166 (71%)

#### 7.1.4 Statistically unusual chemical shifts ⓘ

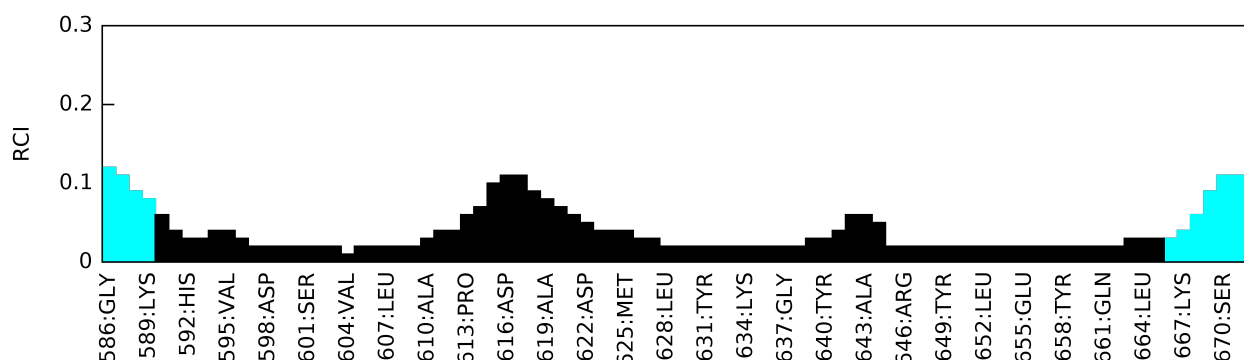
The following table lists the statistically unusual chemical shifts. These are statistical measures, and large deviations from the mean do not necessarily imply incorrect assignments. Molecules containing paramagnetic centres or hemes are expected to give rise to anomalous chemical shifts.

Mol	Chain	Res	Type	Atom	Shift, ppm	Expected range, ppm	Z-score
1	A	589	LYS	HB3	0.28	3.10 – 0.40	-5.5

#### 7.1.5 Random Coil Index (RCI) plots ⓘ

The images below report *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition.

Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:

