



# Full wwPDB NMR Structure Validation Report ⓘ

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PDB ID : 2L6N  
Title : NMR solution structure of the protein YP\_001092504.1  
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Deposited on : 2010-11-23

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  
<http://wwpdb.org/validation/2016/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  
Mogul : unknown  
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)  
RCI : v\_1n\_11\_5\_13\_A (Berjanski et al., 2005)  
PANAV : Wang et al. (2010)  
ShiftChecker : rb-20027457  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : rb-20027457

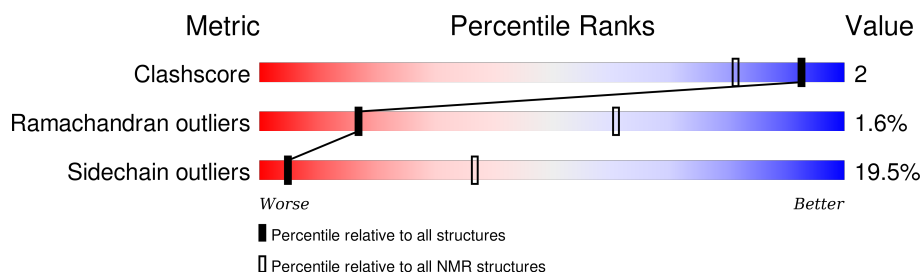
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*SOLUTION NMR*

The overall completeness of chemical shifts assignment is 90%.

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	114402	11133
Ramachandran outliers	111179	9975
Sidechain outliers	111093	9958

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	132	

## 2 Ensemble composition and analysis

This entry contains 20 models. Model 1 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:6-A:46, A:56-A:122 (108)	0.47	1

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 1 clusters. No single-model clusters were found.

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

### 3 Entry composition

There is only 1 type of molecule in this entry. The entry contains 1929 atoms, of which 885 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called uncharacterized protein YP\_001092504.1.

Mol	Chain	Residues	Atoms							Trace
1	A	132	Total	C	H	N	O	S		0
			1929	662	885	185	194	3		

There is a discrepancy between the modelled and reference sequences:

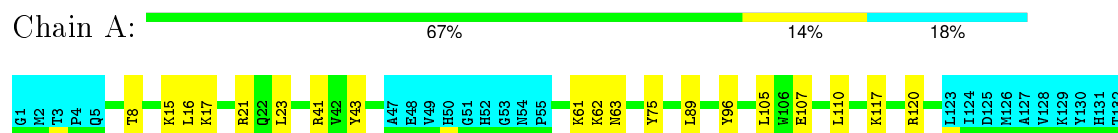
Chain	Residue	Modelled	Actual	Comment	Reference
A	1	GLY	-	EXPRESSION TAG	UNP A3Q9U7

## 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: uncharacterized protein YP\_001092504.1

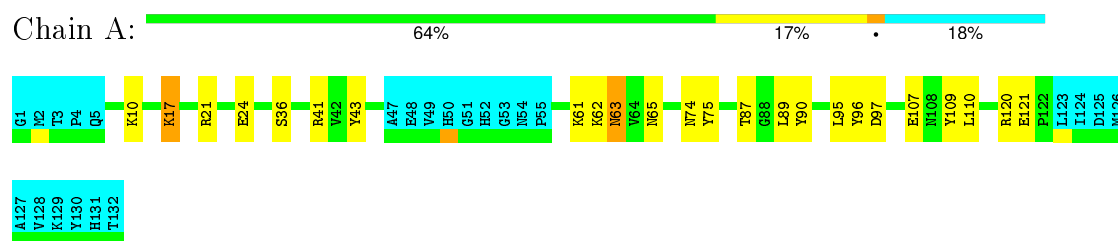


### 4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

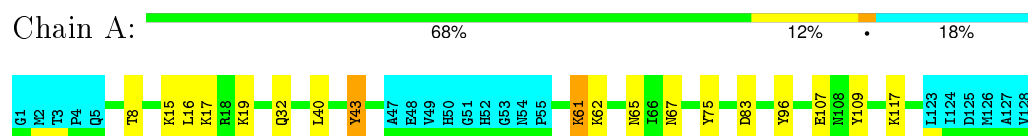
#### 4.2.1 Score per residue for model 1 (medoid)

- Molecule 1: uncharacterized protein YP\_001092504.1



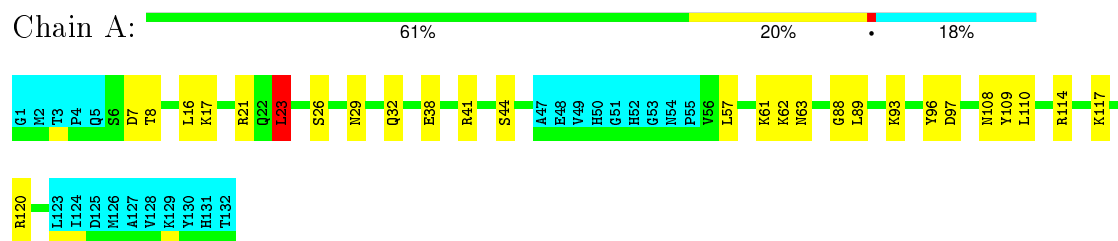
#### 4.2.2 Score per residue for model 2

- Molecule 1: uncharacterized protein YP\_001092504.1



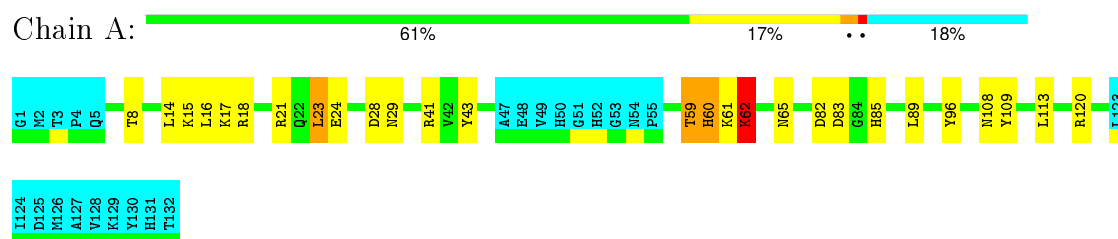
### 4.2.3 Score per residue for model 3

- Molecule 1: uncharacterized protein YP\_001092504.1



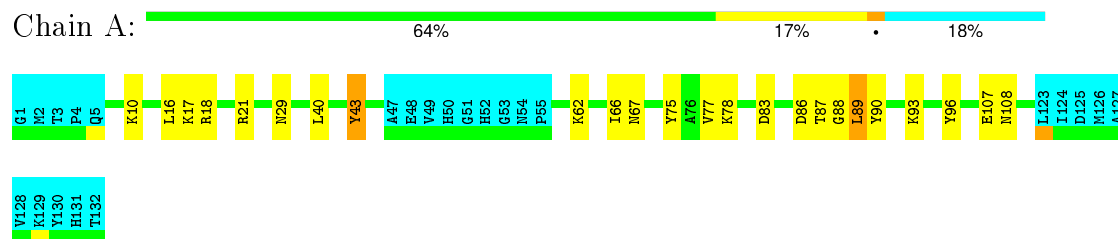
### 4.2.4 Score per residue for model 4

- Molecule 1: uncharacterized protein YP\_001092504.1



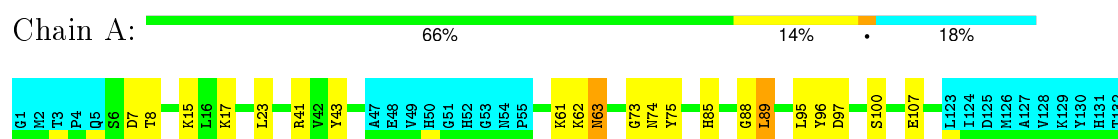
### 4.2.5 Score per residue for model 5

- Molecule 1: uncharacterized protein YP\_001092504.1



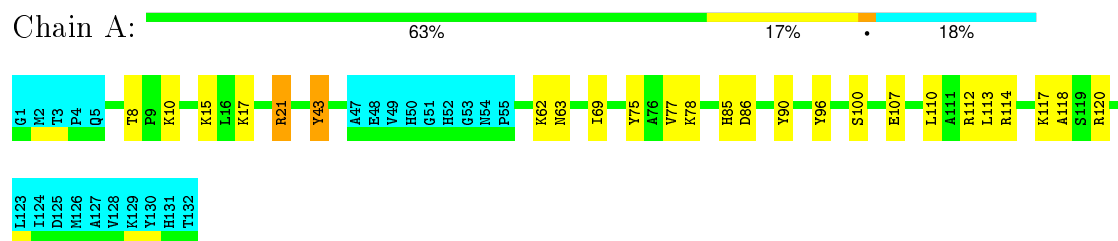
### 4.2.6 Score per residue for model 6

- Molecule 1: uncharacterized protein YP\_001092504.1



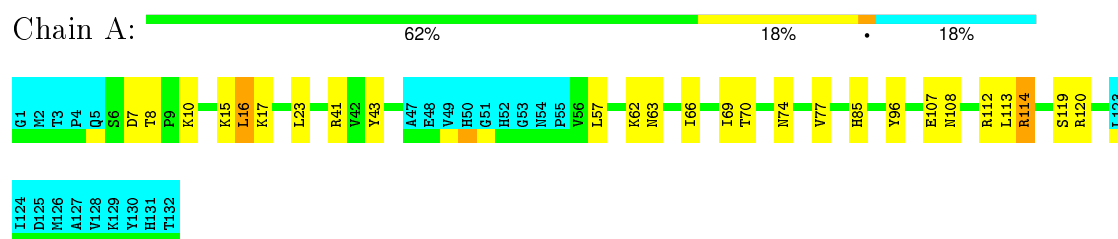
### 4.2.7 Score per residue for model 7

- Molecule 1: uncharacterized protein YP\_001092504.1



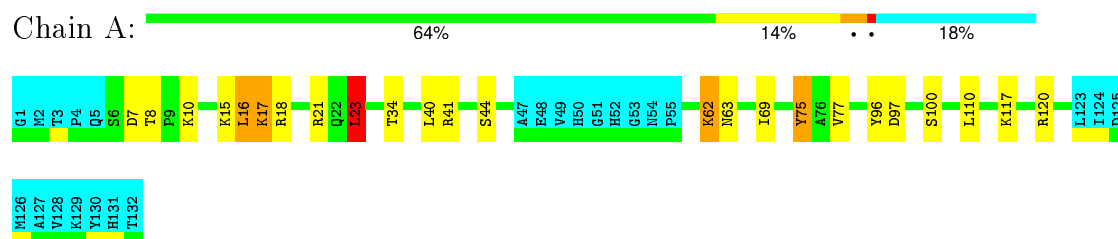
### 4.2.8 Score per residue for model 8

- Molecule 1: uncharacterized protein YP\_001092504.1



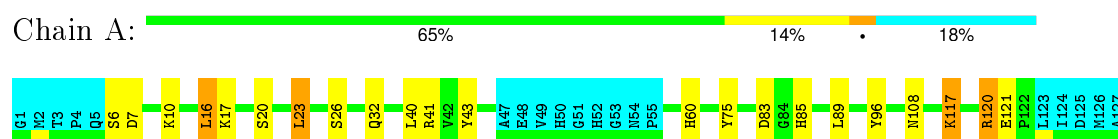
### 4.2.9 Score per residue for model 9

- Molecule 1: uncharacterized protein YP\_001092504.1



### 4.2.10 Score per residue for model 10

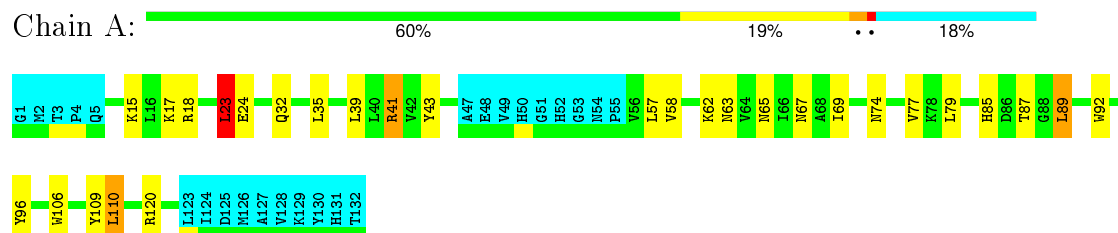
- Molecule 1: uncharacterized protein YP\_001092504.1





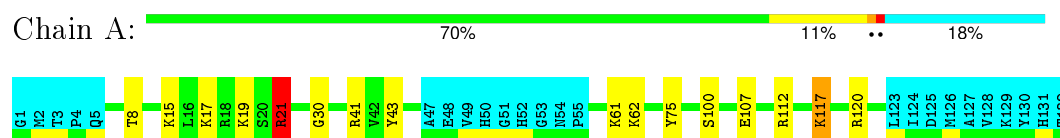
#### 4.2.11 Score per residue for model 11

- Molecule 1: uncharacterized protein YP\_001092504.1



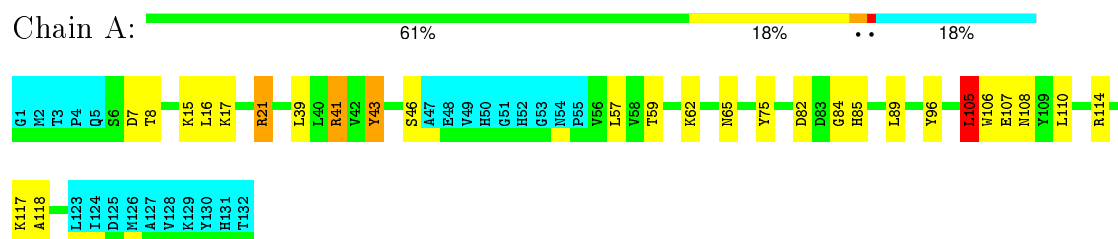
#### 4.2.12 Score per residue for model 12

- Molecule 1: uncharacterized protein YP\_001092504.1



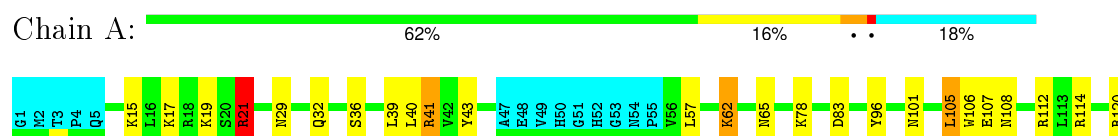
#### 4.2.13 Score per residue for model 13

- Molecule 1: uncharacterized protein YP\_001092504.1

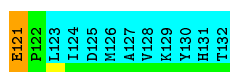


#### 4.2.14 Score per residue for model 14

- Molecule 1: uncharacterized protein YP\_001092504.1

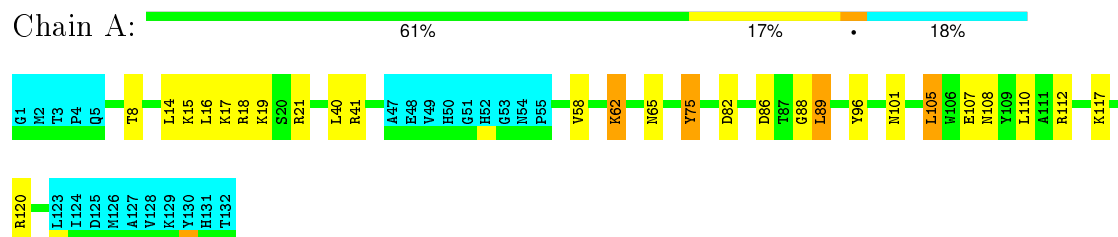






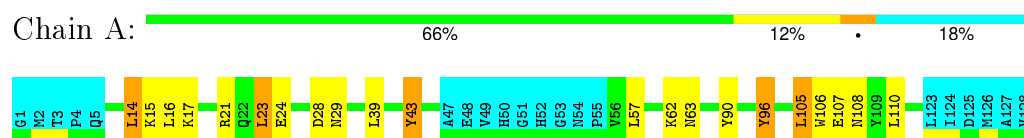
#### 4.2.15 Score per residue for model 15

- Molecule 1: uncharacterized protein YP\_001092504.1



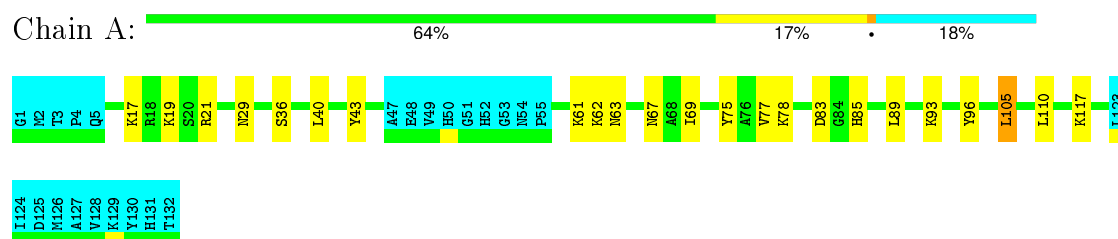
#### 4.2.16 Score per residue for model 16

- Molecule 1: uncharacterized protein YP\_001092504.1



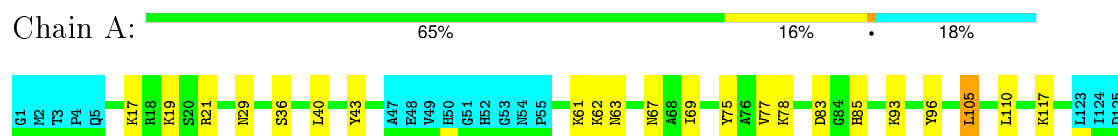
#### 4.2.17 Score per residue for model 17

- Molecule 1: uncharacterized protein YP\_001092504.1



#### 4.2.18 Score per residue for model 18

- Molecule 1: uncharacterized protein YP\_001092504.1





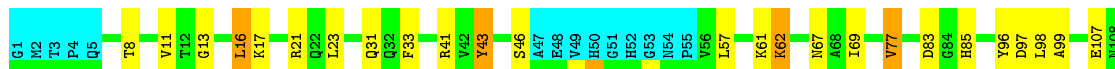
#### 4.2.19 Score per residue for model 19

- Molecule 1: uncharacterized protein YP\_001092504.1



#### 4.2.20 Score per residue for model 20

- Molecule 1: uncharacterized protein YP\_001092504.1



## 5 Refinement protocol and experimental data overview

The models were refined using the following method: *molecular dynamics*.

Of the 80 calculated structures, 20 were deposited, based on the following criterion: *CYANA target function*.

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

Software name	Classification	Version
UNIO	structure solution	2.0.1
UNIO	refinement	2.0.1

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)	BMRB entry 17318
Number of chemical shift lists	1
Total number of shifts	1615
Number of shifts mapped to atoms	1615
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	90%

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

## 6 Model quality

### 6.1 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 (average) 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	0.61±0.01	0±0/881 (0.0±0.0%)	1.09±0.04	1±1/1196 (0.1±0.1%)
All	All	0.61	0/17620 (0.0%)	1.10	26/23920 (0.1%)

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	1.6±0.9
All	All	0	33

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.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	41	ARG	NE-CZ-NH2	-6.67	116.96	120.30	14	1
1	A	105	LEU	CB-CG-CD2	6.45	121.97	111.00	17	2
1	A	110	LEU	CB-CG-CD1	6.35	121.79	111.00	9	5
1	A	96	TYR	CB-CG-CD2	-6.04	117.38	121.00	15	2
1	A	121	GLU	CB-CA-C	6.00	122.40	110.40	14	1
1	A	120	ARG	NE-CZ-NH2	-5.73	117.43	120.30	20	1
1	A	21	ARG	NE-CZ-NH2	-5.66	117.47	120.30	12	2
1	A	109	TYR	CB-CG-CD2	-5.56	117.67	121.00	4	1
1	A	59	THR	CA-CB-CG2	-5.54	104.65	112.40	4	1
1	A	23	LEU	CB-CG-CD2	5.47	120.31	111.00	3	3
1	A	77	VAL	CA-CB-CG1	5.39	118.98	110.90	20	1
1	A	75	TYR	CB-CG-CD2	-5.28	117.83	121.00	9	2
1	A	41	ARG	NE-CZ-NH1	5.19	122.90	120.30	13	1
1	A	43	TYR	CB-CG-CD1	-5.19	117.89	121.00	20	1
1	A	105	LEU	CB-CA-C	5.17	120.03	110.20	13	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	121	GLU	CB-CG-CD	-5.12	100.39	114.20	14	1

There are no chirality outliers.

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

Mol	Chain	Res	Type	Group	Models (Total)
1	A	21	ARG	Sidechain	6
1	A	109	TYR	Sidechain	5
1	A	43	TYR	Sidechain	5
1	A	90	TYR	Sidechain	3
1	A	114	ARG	Sidechain	2
1	A	18	ARG	Sidechain	2
1	A	101	ASN	Peptide	2
1	A	120	ARG	Sidechain	2
1	A	41	ARG	Sidechain	1
1	A	60	HIS	Sidechain,Peptide	1
1	A	27	PHE	Sidechain	1
1	A	112	ARG	Sidechain	1
1	A	85	HIS	Peptide	1

## 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.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	863	739	874	3±2
All	All	17260	14780	17480	62

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 2.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:59:THR:HG22	1:A:118:ALA:HB1	0.69	1.62	13	1
1:A:39:LEU:HD11	1:A:105:LEU:HD11	0.65	1.66	13	2

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:110:LEU:H	1:A:110:LEU:HD22	0.59	1.58	1	3
1:A:16:LEU:HD12	1:A:23:LEU:HD23	0.56	1.77	9	2
1:A:33:PHE:CE2	1:A:99:ALA:HB2	0.55	2.37	20	1
1:A:69:ILE:HG23	1:A:77:VAL:HG11	0.54	1.77	7	3
1:A:62:LYS:H	1:A:62:LYS:HE2	0.54	1.61	9	1
1:A:14:LEU:HD23	1:A:23:LEU:HD21	0.53	1.81	16	1
1:A:16:LEU:HD11	1:A:23:LEU:HD12	0.53	1.80	10	2
1:A:39:LEU:HD11	1:A:105:LEU:CD1	0.53	2.34	16	2
1:A:105:LEU:HD12	1:A:106:TRP:N	0.50	2.22	14	3
1:A:113:LEU:HD12	1:A:118:ALA:HB3	0.50	1.82	7	1
1:A:69:ILE:CG2	1:A:77:VAL:HG21	0.49	2.37	9	3
1:A:113:LEU:CD1	1:A:118:ALA:HB3	0.49	2.37	7	1
1:A:105:LEU:HD12	1:A:105:LEU:C	0.49	2.28	13	1
1:A:106:TRP:CZ2	1:A:110:LEU:HD21	0.48	2.43	13	1
1:A:23:LEU:HD22	1:A:24:GLU:N	0.47	2.24	11	3
1:A:35:LEU:HD22	1:A:39:LEU:HD23	0.46	1.88	11	1
1:A:105:LEU:C	1:A:105:LEU:HD12	0.46	2.31	14	1
1:A:60:HIS:CG	1:A:61:LYS:N	0.46	2.83	4	1
1:A:69:ILE:HG23	1:A:77:VAL:CG1	0.45	2.40	7	2
1:A:110:LEU:HD12	1:A:110:LEU:H	0.45	1.71	19	1
1:A:17:LYS:HE3	1:A:24:GLU:CD	0.45	2.32	1	1
1:A:62:LYS:H	1:A:62:LYS:CE	0.45	2.24	9	2
1:A:16:LEU:HD22	1:A:23:LEU:HD23	0.45	1.88	4	1
1:A:95:LEU:HD12	1:A:95:LEU:H	0.44	1.72	1	1
1:A:113:LEU:HD21	1:A:119:SER:O	0.44	2.12	20	1
1:A:110:LEU:H	1:A:110:LEU:HD12	0.44	1.72	15	1
1:A:110:LEU:N	1:A:110:LEU:HD12	0.43	2.28	19	2
1:A:90:TYR:HB3	1:A:95:LEU:HD11	0.43	1.90	1	1
1:A:106:TRP:CE2	1:A:110:LEU:HD11	0.43	2.48	11	1
1:A:106:TRP:CE2	1:A:110:LEU:HD21	0.43	2.49	16	1
1:A:21:ARG:NE	1:A:65:ASN:HD22	0.43	2.11	14	1
1:A:77:VAL:HG13	1:A:79:LEU:HD13	0.43	1.91	11	1
1:A:110:LEU:H	1:A:110:LEU:CD2	0.42	2.26	1	1
1:A:101:ASN:HB3	1:A:105:LEU:HD23	0.42	1.92	15	1
1:A:43:TYR:CD1	1:A:98:LEU:HD21	0.42	2.49	20	1
1:A:17:LYS:HE2	1:A:34:THR:HG21	0.42	1.91	9	1
1:A:16:LEU:HD21	1:A:66:ILE:HB	0.42	1.91	8	1
1:A:95:LEU:H	1:A:95:LEU:HD12	0.41	1.76	6	1
1:A:110:LEU:N	1:A:110:LEU:HD22	0.41	2.28	1	1
1:A:77:VAL:HB	1:A:92:TRP:CH2	0.41	2.51	11	1
1:A:113:LEU:C	1:A:113:LEU:HD13	0.40	2.36	8	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:106:TRP:O	1:A:110:LEU:HD13	0.40	2.17	11	1
1:A:61:LYS:HE3	1:A:61:LYS:HA	0.40	1.93	2	1

## 6.3 Torsion angles [i](#)

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

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	108/132 (82%)	95±5 (88±4%)	12±4 (11±4%)	2±1 (2±1%)	17	61
All	All	2160/2640 (82%)	1892 (88%)	233 (11%)	35 (2%)	17	61

All 19 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	62	LYS	5
1	A	89	LEU	4
1	A	88	GLY	4
1	A	117	LYS	3
1	A	14	LEU	2
1	A	63	ASN	2
1	A	83	ASP	2
1	A	74	ASN	2
1	A	90	TYR	1
1	A	66	ILE	1
1	A	73	GLY	1
1	A	85	HIS	1
1	A	60	HIS	1
1	A	84	GLY	1
1	A	87	THR	1
1	A	13	GLY	1
1	A	11	VAL	1
1	A	44	SER	1
1	A	30	GLY	1

### 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	96/115 (83%)	77±2 (81±2%)	19±2 (19±2%)	5	37
All	All	1920/2300 (83%)	1546 (81%)	374 (19%)	5	37

All 59 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	17	LYS	20
1	A	62	LYS	19
1	A	96	TYR	18
1	A	43	TYR	16
1	A	41	ARG	14
1	A	15	LYS	13
1	A	107	GLU	13
1	A	8	THR	12
1	A	75	TYR	12
1	A	120	ARG	12
1	A	21	ARG	12
1	A	89	LEU	10
1	A	108	ASN	10
1	A	16	LEU	10
1	A	63	ASN	10
1	A	117	LYS	9
1	A	23	LEU	9
1	A	61	LYS	9
1	A	40	LEU	8
1	A	85	HIS	8
1	A	7	ASP	7
1	A	29	ASN	7
1	A	57	LEU	7
1	A	67	ASN	6
1	A	65	ASN	6
1	A	83	ASP	6
1	A	19	LYS	6
1	A	105	LEU	6
1	A	10	LYS	6

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Mol	Chain	Res	Type	Models (Total)
1	A	32	GLN	5
1	A	97	ASP	5
1	A	78	LYS	5
1	A	93	LYS	4
1	A	121	GLU	4
1	A	114	ARG	4
1	A	112	ARG	4
1	A	100	SER	4
1	A	36	SER	4
1	A	86	ASP	3
1	A	18	ARG	3
1	A	82	ASP	3
1	A	46	SER	3
1	A	28	ASP	2
1	A	87	THR	2
1	A	74	ASN	2
1	A	26	SER	2
1	A	58	VAL	2
1	A	20	SER	1
1	A	77	VAL	1
1	A	59	THR	1
1	A	31	GLN	1
1	A	6	SER	1
1	A	113	LEU	1
1	A	38	GLU	1
1	A	39	LEU	1
1	A	14	LEU	1
1	A	70	THR	1
1	A	119	SER	1
1	A	44	SER	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 [i](#)

There are no carbohydrates in this entry.

## 6.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 6.7 Other polymers [i](#)

There are no such molecules in this entry.

## 6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

## 7 Chemical shift validation

The completeness of assignment taking into account all chemical shift lists is 90% for the well-defined parts and 89% for the entire structure.

### 7.1 Chemical shift list 1

File name: BMRB entry 17318

Chemical shift list name: *assigned\_chem\_shift\_list\_1*

#### 7.1.1 Bookkeeping

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	1615
Number of shifts mapped to atoms	1615
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	2

#### 7.1.2 Chemical shift referencing

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction $\pm$ precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	131	$0.09 \pm 0.06$	None needed ( $< 0.5$ ppm)
$^{13}\text{C}_\beta$	124	$0.29 \pm 0.14$	None needed ( $< 0.5$ ppm)
$^{13}\text{C}'$	101	$0.12 \pm 0.09$	None needed ( $< 0.5$ ppm)
$^{15}\text{N}$	120	$0.34 \pm 0.26$	None needed ( $< 0.5$ ppm)

#### 7.1.3 Completeness of resonance assignments

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 90%, i.e. 1218 atoms were assigned a chemical shift out of a possible 1360. 0 out of 24 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	$^1\text{H}$	$^{13}\text{C}$	$^{15}\text{N}$
Backbone	502/532 (94%)	209/212 (99%)	192/216 (89%)	101/104 (97%)
Sidechain	636/723 (88%)	391/422 (93%)	229/263 (87%)	16/38 (42%)

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	<b>Total</b>	<b><sup>1</sup>H</b>	<b><sup>13</sup>C</b>	<b><sup>15</sup>N</b>
Aromatic	80/105 (76%)	41/55 (75%)	37/46 (80%)	2/4 (50%)
Overall	1218/1360 (90%)	641/689 (93%)	458/525 (87%)	119/146 (82%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 89%, i.e. 1450 atoms were assigned a chemical shift out of a possible 1634. 0 out of 27 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	<b>Total</b>	<b><sup>1</sup>H</b>	<b><sup>13</sup>C</b>	<b><sup>15</sup>N</b>
Backbone	603/648 (93%)	251/258 (97%)	232/264 (88%)	120/126 (95%)
Sidechain	753/852 (88%)	463/498 (93%)	272/313 (87%)	18/41 (44%)
Aromatic	94/134 (70%)	48/71 (68%)	44/56 (79%)	2/7 (29%)
Overall	1450/1634 (89%)	762/827 (92%)	548/633 (87%)	140/174 (80%)

#### 7.1.4 Statistically unusual chemical shifts [i](#)

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	11	VAL	HB	-0.81	3.59 – 0.39	-8.7
1	A	41	ARG	HD3	1.61	4.36 – 1.86	-6.0

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

The image below reports *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:

