



Full wwPDB NMR Structure Validation Report ⓘ

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PDB ID : 1JH3
Title : Solution structure of tyrosyl-tRNA synthetase C-terminal domain.
Authors : Guijarro, J.I.; Pintar, A.; Prochnicka-Chalufour, A.; Guez, V.; Gilquin, B.;
Bedouelle, H.; Delepierre, M.
Deposited on : 2001-06-27

This is a Full wwPDB NMR Structure Validation Report for a publicly released PDB entry.
We welcome your comments at 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.

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

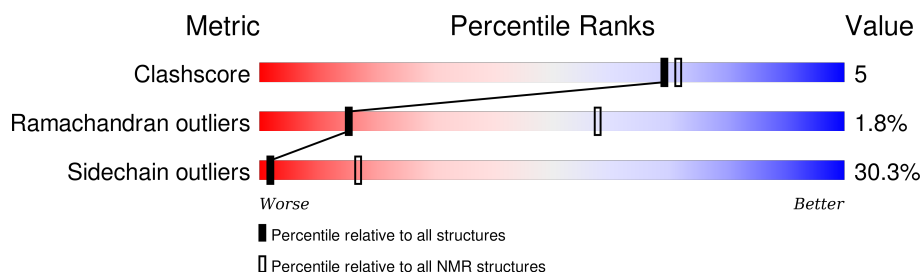
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 82%.

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 ≥ 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	107	

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.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:11-A:99 (89)	0.30	2

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 5 clusters and 3 single-model clusters were found.

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

3 Entry composition

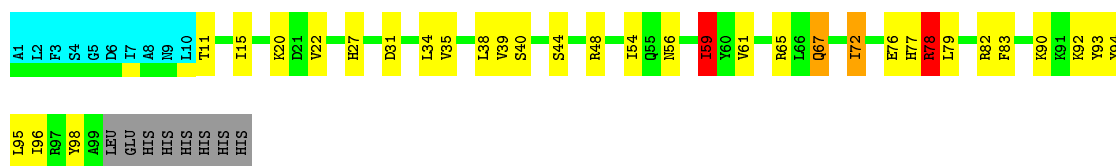
There is only 1 type of molecule in this entry. The entry contains 1552 atoms, of which 781 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called TYROSYL-TRNA SYNTHETASE.

Mol	Chain	Residues	Atoms					Trace
1	A	99	Total	C	H	N	O	0
			1552	488	781	139	144	

There are 8 discrepancies between the modelled and reference sequences:

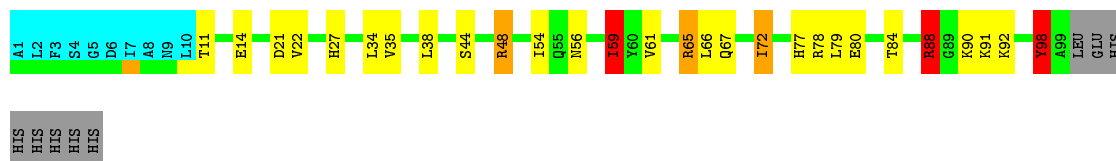
Chain	Residue	Modelled	Actual	Comment	Reference
A	100	LEU	-	EXPRESSION TAG	UNP P00952
A	101	GLU	-	EXPRESSION TAG	UNP P00952
A	102	HIS	-	EXPRESSION TAG	UNP P00952
A	103	HIS	-	EXPRESSION TAG	UNP P00952
A	104	HIS	-	EXPRESSION TAG	UNP P00952
A	105	HIS	-	EXPRESSION TAG	UNP P00952
A	106	HIS	-	EXPRESSION TAG	UNP P00952
A	107	HIS	-	EXPRESSION TAG	UNP P00952



4.2.3 Score per residue for model 3

- Molecule 1: TYROSYL-TRNA SYNTHETASE

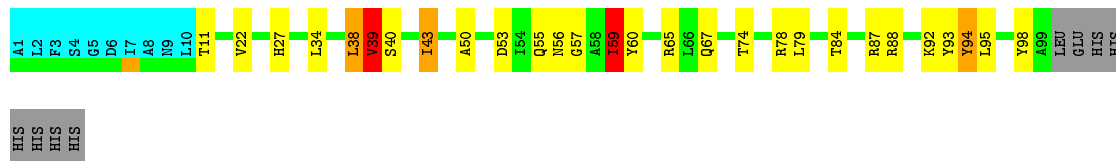
Chain A: 57% 21% 9% 7%



4.2.4 Score per residue for model 4

- Molecule 1: TYROSYL-TRNA SYNTHETASE

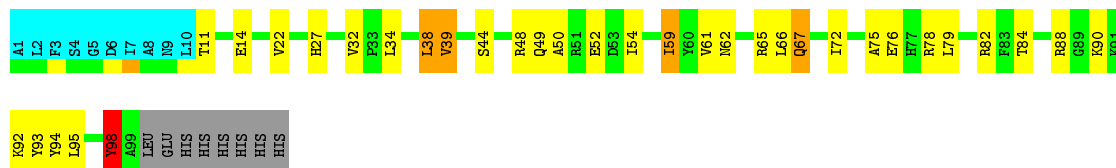
Chain A: 57% 21% 9% 7%



4.2.5 Score per residue for model 5

- Molecule 1: TYROSYL-TRNA SYNTHETASE

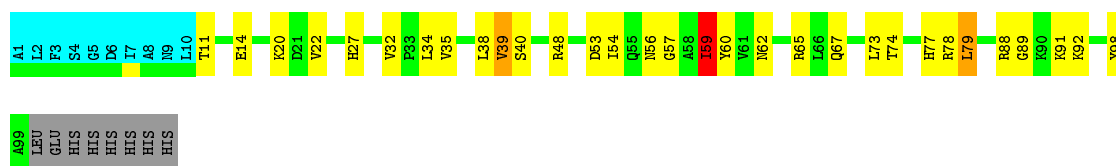
Chain A: 51% 27% 9% 7%



4.2.6 Score per residue for model 6

- Molecule 1: TYROSYL-TRNA SYNTHETASE

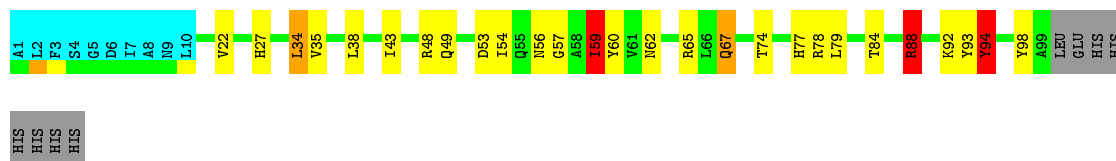
Chain A: 54% 26% 9% 7%



4.2.7 Score per residue for model 7

- Molecule 1: TYROSYL-TRNA SYNTHETASE

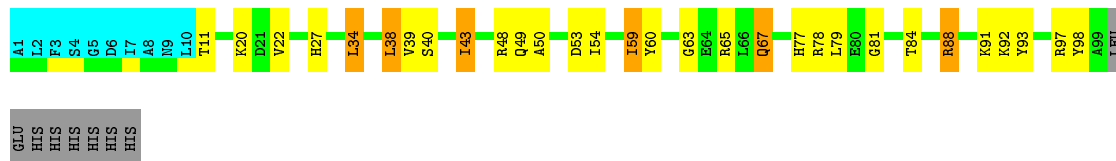
Chain A: 58% 21% 9% 7%



4.2.8 Score per residue for model 8

- Molecule 1: TYROSYL-TRNA SYNTHETASE

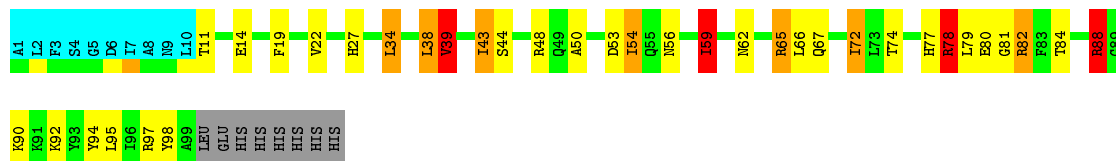
Chain A: 55% 22% 6% 9% 7%



4.2.9 Score per residue for model 9

- Molecule 1: TYROSYL-TRNA SYNTHETASE

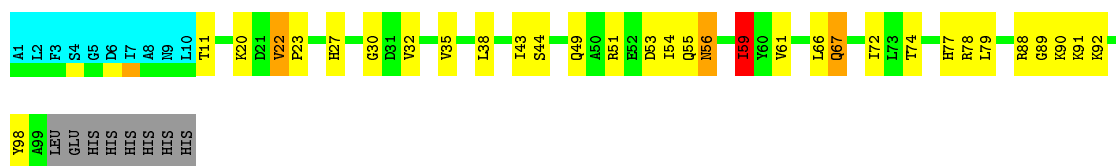
Chain A: 50% 23% 7% 9% 7%



4.2.10 Score per residue for model 10

- Molecule 1: TYROSYL-TRNA SYNTHETASE

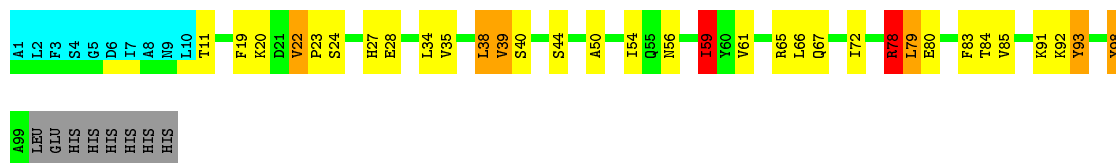
Chain A: 53% 26% 9% 7%



4.2.11 Score per residue for model 11

- Molecule 1: TYROSYL-TRNA SYNTHETASE

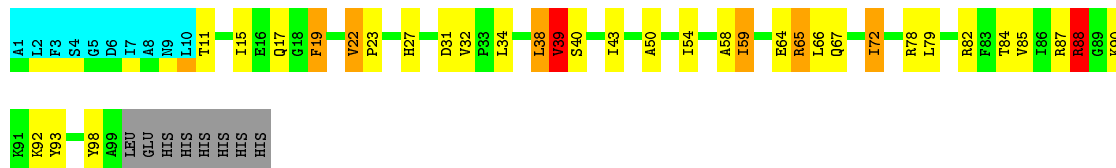
Chain A: 52% 23% 6% 9% 7%



4.2.12 Score per residue for model 12

- Molecule 1: TYROSYL-TRNA SYNTHETASE

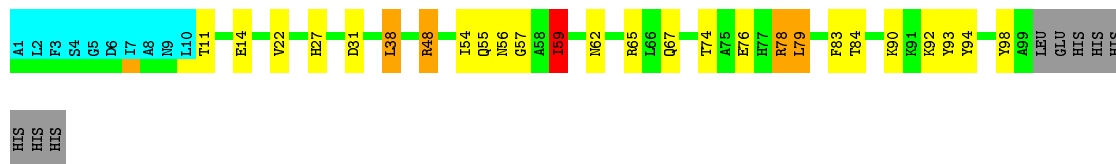
Chain A: 51% 24% 6% 9% 7%



4.2.13 Score per residue for model 13

- Molecule 1: TYROSYL-TRNA SYNTHETASE

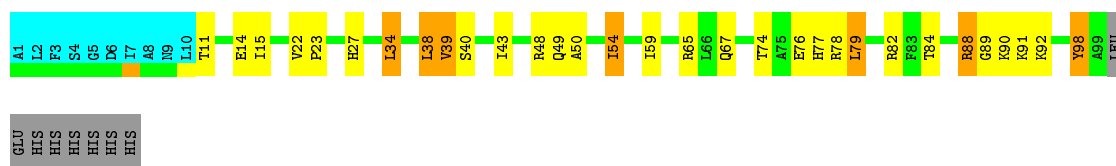
Chain A: 59% 20% 9% 7%



4.2.14 Score per residue for model 14

- Molecule 1: TYROSYL-TRNA SYNTHETASE

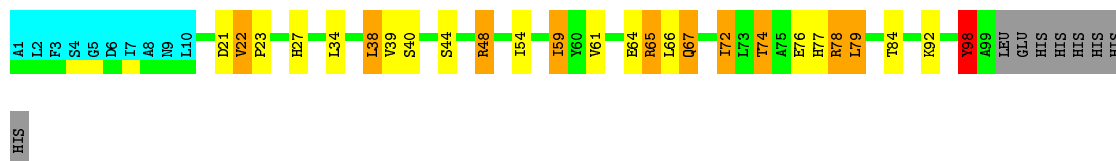
Chain A: 54% 22% 7% 9% 7%



4.2.15 Score per residue for model 15

- Molecule 1: TYROSYL-TRNA SYNTHETASE

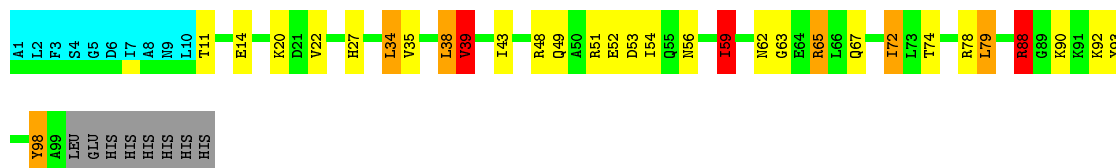
Chain A:



4.2.16 Score per residue for model 16

- Molecule 1: TYROSYL-TRNA SYNTHETASE

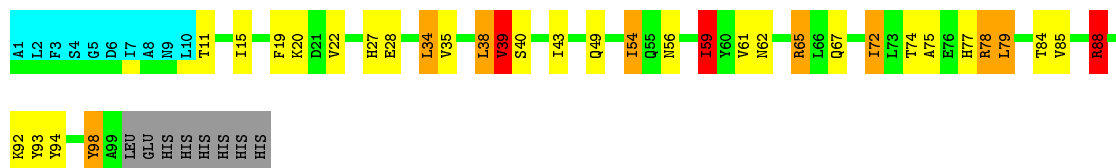
Chain A:



4.2.17 Score per residue for model 17

- Molecule 1: TYROSYL-TRNA SYNTHETASE

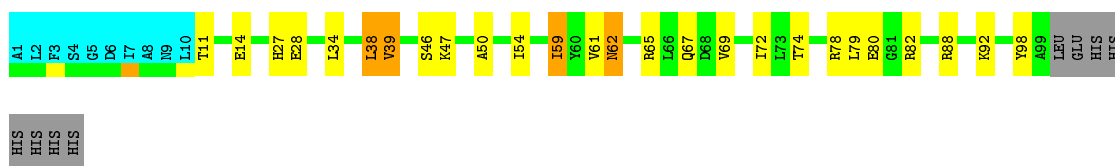
Chain A:



4.2.18 Score per residue for model 18

- Molecule 1: TYROSYL-TRNA SYNTHETASE

Chain A:



4.2.19 Score per residue for model 19

- Molecule 1: TYROSYL-TRNA SYNTHETASE

Chain A: 53% 25% 5% 9% 7%



4.2.20 Score per residue for model 20

- Molecule 1: TYROSYL-TRNA SYNTHETASE

Chain A: 53% 24% 5% 9% 7%



5 Refinement protocol and experimental data overview

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

Of the 50 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.

Software name	Classification	Version
DYANA	structure solution	1.5
OPAL	refinement	2.6

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 5070
Number of chemical shift lists	1
Total number of shifts	1135
Number of shifts mapped to atoms	1135
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	82%

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	0.64±0.01	0±0/711 (0.0±0.0%)	1.28±0.04	4±2/957 (0.4±0.2%)
All	All	0.64	0/14220 (0.0%)	1.28	79/19140 (0.4%)

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	2.5±1.6
All	All	0	49

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	88	ARG	CD-NE-CZ	9.03	136.24	123.60	8	2
1	A	88	ARG	NE-CZ-NH1	8.19	124.39	120.30	12	5
1	A	93	TYR	CB-CG-CD2	-7.87	116.28	121.00	19	3
1	A	65	ARG	NE-CZ-NH2	-6.86	116.87	120.30	17	4
1	A	59	ILE	CB-CA-C	6.83	125.27	111.60	11	18
1	A	94	TYR	CB-CG-CD2	-6.61	117.03	121.00	7	1
1	A	51	ARG	NE-CZ-NH2	-6.50	117.05	120.30	10	1
1	A	39	VAL	CA-CB-CG1	6.43	120.54	110.90	16	10
1	A	59	ILE	CA-CB-CG1	6.42	123.20	111.00	7	1
1	A	82	ARG	NE-CZ-NH2	-6.37	117.11	120.30	5	1
1	A	67	GLN	CA-CB-CG	6.34	127.34	113.40	7	6
1	A	94	TYR	CB-CG-CD1	-6.13	117.32	121.00	4	1
1	A	85	VAL	CA-CB-CG1	6.05	119.97	110.90	11	1
1	A	34	LEU	CB-CA-C	5.85	121.32	110.20	8	3
1	A	93	TYR	CB-CG-CD1	5.85	124.51	121.00	19	1

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
1	A	43	ILE	CA-CB-CG1	5.81	122.04	111.00	8	2
1	A	22	VAL	CA-CB-CG2	5.70	119.45	110.90	11	2
1	A	73	LEU	CB-CA-C	5.68	121.00	110.20	1	3
1	A	98	TYR	CB-CG-CD2	-5.68	117.59	121.00	16	4
1	A	78	ARG	NE-CZ-NH2	-5.60	117.50	120.30	2	2
1	A	78	ARG	NE-CZ-NH1	5.47	123.03	120.30	11	1
1	A	65	ARG	NE-CZ-NH1	5.45	123.02	120.30	17	1
1	A	48	ARG	NE-CZ-NH1	5.15	122.88	120.30	15	1
1	A	65	ARG	CD-NE-CZ	5.12	130.76	123.60	15	1
1	A	89	GLY	C-N-CA	5.10	134.46	121.70	10	1
1	A	54	ILE	CA-CB-CG1	-5.09	101.33	111.00	8	1
1	A	74	THR	CA-CB-CG2	-5.07	105.30	112.40	15	1
1	A	97	ARG	NE-CZ-NH2	-5.03	117.79	120.30	8	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	77	HIS	Sidechain	12
1	A	98	TYR	Sidechain	7
1	A	88	ARG	Sidechain	6
1	A	94	TYR	Sidechain	6
1	A	78	ARG	Sidechain	5
1	A	19	PHE	Sidechain	2
1	A	48	ARG	Sidechain	2
1	A	93	TYR	Sidechain	2
1	A	87	ARG	Sidechain	1
1	A	60	TYR	Sidechain	1
1	A	83	PHE	Sidechain	1
1	A	82	ARG	Sidechain	1
1	A	51	ARG	Sidechain	1
1	A	65	ARG	Sidechain	1
1	A	97	ARG	Sidechain	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	700	709	709	7±3
All	All	14000	14180	14180	131

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 5.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:61:VAL:HG21	1:A:72:ILE:HD13	0.69	1.64	10	8
1:A:22:VAL:HG22	1:A:23:PRO:HD2	0.66	1.68	20	4
1:A:38:LEU:HD21	1:A:50:ALA:HB1	0.66	1.67	8	8
1:A:34:LEU:HD22	1:A:54:ILE:HG13	0.62	1.72	1	5
1:A:35:VAL:HA	1:A:54:ILE:HD11	0.61	1.71	6	6
1:A:38:LEU:HD13	1:A:54:ILE:CD1	0.61	2.25	1	7
1:A:35:VAL:HA	1:A:38:LEU:HD22	0.56	1.77	20	4
1:A:62:ASN:HD21	1:A:79:LEU:HD22	0.56	1.60	6	1
1:A:56:ASN:O	1:A:59:ILE:HG22	0.55	2.02	20	13
1:A:43:ILE:HG21	1:A:88:ARG:NH1	0.54	2.17	4	2
1:A:88:ARG:HH11	1:A:88:ARG:HB2	0.54	1.60	9	1
1:A:35:VAL:HA	1:A:38:LEU:HD12	0.54	1.80	16	1
1:A:66:LEU:HB3	1:A:72:ILE:HD11	0.53	1.80	3	9
1:A:79:LEU:HD21	1:A:83:PHE:O	0.53	2.03	13	1
1:A:38:LEU:CD2	1:A:54:ILE:HD11	0.53	2.33	5	1
1:A:38:LEU:HD13	1:A:39:VAL:N	0.52	2.19	16	1
1:A:38:LEU:HD21	1:A:54:ILE:HD11	0.52	1.81	5	1
1:A:75:ALA:HB2	1:A:98:TYR:CE1	0.51	2.41	17	2
1:A:62:ASN:HD21	1:A:79:LEU:CD2	0.51	2.19	6	4
1:A:54:ILE:HA	1:A:59:ILE:HG21	0.51	1.82	20	1
1:A:50:ALA:O	1:A:54:ILE:HD12	0.51	2.06	5	1
1:A:79:LEU:CD1	1:A:82:ARG:H	0.50	2.18	20	1
1:A:22:VAL:HG22	1:A:23:PRO:CD	0.49	2.37	14	1
1:A:66:LEU:CB	1:A:72:ILE:HD11	0.49	2.38	1	10
1:A:62:ASN:HD22	1:A:78:ARG:HG3	0.49	1.68	9	3
1:A:38:LEU:HD23	1:A:39:VAL:N	0.48	2.23	17	8
1:A:79:LEU:HD11	1:A:82:ARG:H	0.48	1.67	20	1
1:A:34:LEU:HD22	1:A:54:ILE:CG1	0.48	2.38	9	4
1:A:58:ALA:HB1	1:A:88:ARG:NH2	0.48	2.24	12	1
1:A:19:PHE:CD2	1:A:85:VAL:HG21	0.47	2.44	17	1
1:A:38:LEU:HD22	1:A:54:ILE:HD11	0.47	1.86	13	2
1:A:79:LEU:N	1:A:79:LEU:HD23	0.47	2.25	13	1
1:A:19:PHE:CZ	1:A:85:VAL:HG13	0.46	2.46	12	1
1:A:88:ARG:NH2	1:A:90:LYS:H	0.44	2.10	12	1

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Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:95:LEU:C	1:A:96:ILE:HD12	0.44	2.33	2	1
1:A:38:LEU:HD13	1:A:54:ILE:HD12	0.43	1.89	17	2
1:A:79:LEU:HD11	1:A:83:PHE:H	0.43	1.72	11	1
1:A:22:VAL:HG12	1:A:23:PRO:HD2	0.42	1.90	10	2
1:A:61:VAL:HG21	1:A:72:ILE:CD1	0.42	2.44	2	3
1:A:34:LEU:HD23	1:A:72:ILE:HD12	0.42	1.90	16	1
1:A:59:ILE:HB	1:A:88:ARG:CG	0.42	2.45	7	1
1:A:19:PHE:CG	1:A:93:TYR:CE2	0.42	3.08	11	1
1:A:83:PHE:CD1	1:A:95:LEU:HD11	0.41	2.50	20	1
1:A:22:VAL:CG2	1:A:23:PRO:HD2	0.40	2.46	11	1
1:A:79:LEU:H	1:A:79:LEU:HD23	0.40	1.76	13	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	88/107 (82%)	74±2 (84±2%)	13±2 (15±3%)	2±1 (2±1%)	15	58
All	All	1760/2140 (82%)	1473 (84%)	256 (15%)	31 (2%)	15	58

All 11 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	20	LYS	6
1	A	80	GLU	5
1	A	57	GLY	5
1	A	81	GLY	3
1	A	90	LYS	2
1	A	65	ARG	2
1	A	89	GLY	2
1	A	63	GLY	2
1	A	91	LYS	2
1	A	30	GLY	1
1	A	62	ASN	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	72/87 (83%)	50±2 (70±3%)	22±2 (30±3%)	2	17
All	All	1440/1740 (83%)	1003 (70%)	437 (30%)	2	17

All 49 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	78	ARG	20
1	A	59	ILE	20
1	A	27	HIS	20
1	A	92	LYS	20
1	A	38	LEU	20
1	A	67	GLN	20
1	A	79	LEU	19
1	A	98	TYR	19
1	A	34	LEU	18
1	A	65	ARG	18
1	A	11	THR	17
1	A	22	VAL	16
1	A	84	THR	15
1	A	39	VAL	15
1	A	48	ARG	14
1	A	88	ARG	12
1	A	74	THR	11
1	A	40	SER	10
1	A	14	GLU	10
1	A	72	ILE	9
1	A	53	ASP	9
1	A	43	ILE	9
1	A	90	LYS	8
1	A	49	GLN	8
1	A	93	TYR	7
1	A	44	SER	7
1	A	82	ARG	6
1	A	76	GLU	6
1	A	20	LYS	5

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Mol	Chain	Res	Type	Models (Total)
1	A	32	VAL	4
1	A	91	LYS	4
1	A	54	ILE	4
1	A	31	ASP	3
1	A	21	ASP	3
1	A	95	LEU	3
1	A	55	GLN	3
1	A	28	GLU	3
1	A	62	ASN	3
1	A	60	TYR	3
1	A	56	ASN	2
1	A	46	SER	2
1	A	17	GLN	2
1	A	94	TYR	2
1	A	52	GLU	2
1	A	64	GLU	2
1	A	47	LYS	1
1	A	87	ARG	1
1	A	24	SER	1
1	A	69	VAL	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 [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 82% for the well-defined parts and 81% for the entire structure.

7.1 Chemical shift list 1

File name: BMRB entry 5070

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	1135
Number of shifts mapped to atoms	1135
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
$^{13}\text{C}_\alpha$	96	0.30 ± 0.15	None needed (< 0.5 ppm)
$^{13}\text{C}_\beta$	86	0.31 ± 0.21	None needed (< 0.5 ppm)
$^{13}\text{C}'$	90	0.13 ± 0.16	None needed (< 0.5 ppm)
^{15}N	94	0.25 ± 0.21	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 82%, i.e. 917 atoms were assigned a chemical shift out of a possible 1115. 4 out of 15 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	424/439 (97%)	170/175 (97%)	171/178 (96%)	83/86 (97%)
Sidechain	461/603 (76%)	292/352 (83%)	163/216 (75%)	6/35 (17%)

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	Total	¹ H	¹³ C	¹⁵ N
Aromatic	32/73 (44%)	32/39 (82%)	0/32 (0%)	0/2 (0%)
Overall	917/1115 (82%)	494/566 (87%)	334/426 (78%)	89/123 (72%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 81%, i.e. 985 atoms were assigned a chemical shift out of a possible 1222. 5 out of 17 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	459/489 (94%)	184/195 (94%)	184/198 (93%)	91/96 (95%)
Sidechain	494/651 (76%)	312/379 (82%)	175/236 (74%)	7/36 (19%)
Aromatic	32/82 (39%)	32/44 (73%)	0/36 (0%)	0/2 (0%)
Overall	985/1222 (81%)	528/618 (85%)	359/470 (76%)	98/134 (73%)

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	66	LEU	CG	34.50	32.55 – 21.05	6.7
1	A	43	ILE	HG13	-1.14	3.26 – -0.84	-5.7

7.1.5 Random Coil Index (RCI) plots ⓘ

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:

