



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 14, 2017 – 07:05 am GMT

PDB ID : 5JRC
Title : Crystal structure of NeC3PO in complex with ssRNA.
Authors : Zhang, J.; Gan, J.
Deposited on : 2016-05-06
Resolution : 1.90 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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/XrayValidationReportHelp>

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:

MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.9-1692
EDS	:	trunk28620
Percentile statistics	:	20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	recalc28949

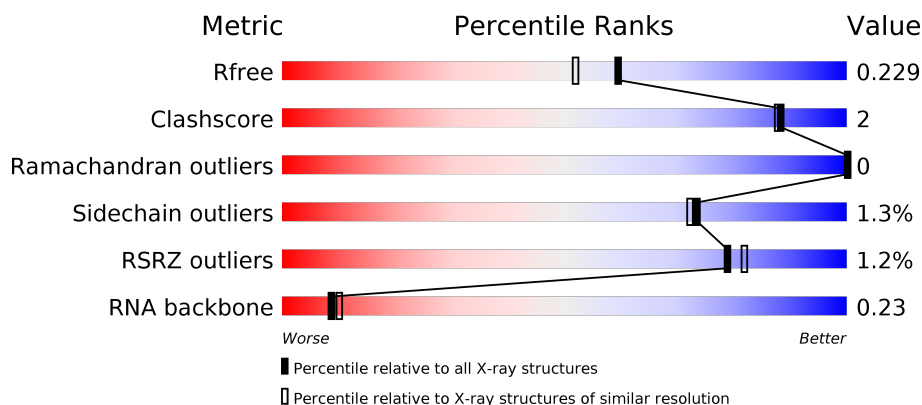
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION





The reported resolution of this entry is 1.90 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 (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	100719	5047 (1.90-1.90)
Clashscore	112137	5731 (1.90-1.90)
Ramachandran outliers	110173	5669 (1.90-1.90)
Sidechain outliers	110143	5670 (1.90-1.90)
RSRZ outliers	101464	5100 (1.90-1.90)
RNA backbone	2435	1002 (2.60-1.20)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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 $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	219	
1	C	219	
2	B	218	
2	D	218	

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Mol	Chain	Length	Quality of chain
3	E	10	 A horizontal bar chart showing the quality of the chain. The bar is divided into three segments: a green segment representing 50%, an orange segment representing 20%, and a grey segment representing 30%. The segments are labeled with their respective percentages below the bar.

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 6561 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 NEQ131.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	186	Total	C	N	O	S	0	2	0
			1555	1009	245	297	4			
1	C	186	Total	C	N	O	S	0	0	0
			1555	1009	245	297	4			

There are 68 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-33	MET	-	initiating methionine	UNP Q74ML9
A	-32	GLY	-	expression tag	UNP Q74ML9
A	-31	SER	-	expression tag	UNP Q74ML9
A	-30	SER	-	expression tag	UNP Q74ML9
A	-29	HIS	-	expression tag	UNP Q74ML9
A	-28	HIS	-	expression tag	UNP Q74ML9
A	-27	HIS	-	expression tag	UNP Q74ML9
A	-26	HIS	-	expression tag	UNP Q74ML9
A	-25	HIS	-	expression tag	UNP Q74ML9
A	-24	HIS	-	expression tag	UNP Q74ML9
A	-23	SER	-	expression tag	UNP Q74ML9
A	-22	SER	-	expression tag	UNP Q74ML9
A	-21	GLY	-	expression tag	UNP Q74ML9
A	-20	LEU	-	expression tag	UNP Q74ML9
A	-19	VAL	-	expression tag	UNP Q74ML9
A	-18	PRO	-	expression tag	UNP Q74ML9
A	-17	ARG	-	expression tag	UNP Q74ML9
A	-16	GLY	-	expression tag	UNP Q74ML9
A	-15	SER	-	expression tag	UNP Q74ML9
A	-14	HIS	-	expression tag	UNP Q74ML9
A	-13	MET	-	expression tag	UNP Q74ML9
A	-12	ALA	-	expression tag	UNP Q74ML9
A	-11	SER	-	expression tag	UNP Q74ML9
A	-10	MET	-	expression tag	UNP Q74ML9
A	-9	THR	-	expression tag	UNP Q74ML9

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Chain	Residue	Modelled	Actual	Comment	Reference
A	-8	GLY	-	expression tag	UNP Q74ML9
A	-7	GLY	-	expression tag	UNP Q74ML9
A	-6	GLN	-	expression tag	UNP Q74ML9
A	-5	GLN	-	expression tag	UNP Q74ML9
A	-4	MET	-	expression tag	UNP Q74ML9
A	-3	GLY	-	expression tag	UNP Q74ML9
A	-2	ARG	-	expression tag	UNP Q74ML9
A	-1	GLY	-	expression tag	UNP Q74ML9
A	0	SER	-	expression tag	UNP Q74ML9
C	-33	MET	-	initiating methionine	UNP Q74ML9
C	-32	GLY	-	expression tag	UNP Q74ML9
C	-31	SER	-	expression tag	UNP Q74ML9
C	-30	SER	-	expression tag	UNP Q74ML9
C	-29	HIS	-	expression tag	UNP Q74ML9
C	-28	HIS	-	expression tag	UNP Q74ML9
C	-27	HIS	-	expression tag	UNP Q74ML9
C	-26	HIS	-	expression tag	UNP Q74ML9
C	-25	HIS	-	expression tag	UNP Q74ML9
C	-24	HIS	-	expression tag	UNP Q74ML9
C	-23	SER	-	expression tag	UNP Q74ML9
C	-22	SER	-	expression tag	UNP Q74ML9
C	-21	GLY	-	expression tag	UNP Q74ML9
C	-20	LEU	-	expression tag	UNP Q74ML9
C	-19	VAL	-	expression tag	UNP Q74ML9
C	-18	PRO	-	expression tag	UNP Q74ML9
C	-17	ARG	-	expression tag	UNP Q74ML9
C	-16	GLY	-	expression tag	UNP Q74ML9
C	-15	SER	-	expression tag	UNP Q74ML9
C	-14	HIS	-	expression tag	UNP Q74ML9
C	-13	MET	-	expression tag	UNP Q74ML9
C	-12	ALA	-	expression tag	UNP Q74ML9
C	-11	SER	-	expression tag	UNP Q74ML9
C	-10	MET	-	expression tag	UNP Q74ML9
C	-9	THR	-	expression tag	UNP Q74ML9
C	-8	GLY	-	expression tag	UNP Q74ML9
C	-7	GLY	-	expression tag	UNP Q74ML9
C	-6	GLN	-	expression tag	UNP Q74ML9
C	-5	GLN	-	expression tag	UNP Q74ML9
C	-4	MET	-	expression tag	UNP Q74ML9
C	-3	GLY	-	expression tag	UNP Q74ML9
C	-2	ARG	-	expression tag	UNP Q74ML9
C	-1	GLY	-	expression tag	UNP Q74ML9

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Chain	Residue	Modelled	Actual	Comment	Reference
C	0	SER	-	expression tag	UNP Q74ML9

- Molecule 2 is a protein called NEQ131.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	185	Total	C	N	O	S	0	2	0
			1538	1000	237	297	4			
2	D	186	Total	C	N	O	S	0	1	0
			1557	1010	246	297	4			

There are 68 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-33	MET	-	initiating methionine	UNP Q74ML9
B	-32	GLY	-	expression tag	UNP Q74ML9
B	-31	SER	-	expression tag	UNP Q74ML9
B	-30	SER	-	expression tag	UNP Q74ML9
B	-29	HIS	-	expression tag	UNP Q74ML9
B	-28	HIS	-	expression tag	UNP Q74ML9
B	-27	HIS	-	expression tag	UNP Q74ML9
B	-26	HIS	-	expression tag	UNP Q74ML9
B	-25	HIS	-	expression tag	UNP Q74ML9
B	-24	HIS	-	expression tag	UNP Q74ML9
B	-23	SER	-	expression tag	UNP Q74ML9
B	-22	SER	-	expression tag	UNP Q74ML9
B	-21	GLY	-	expression tag	UNP Q74ML9
B	-20	LEU	-	expression tag	UNP Q74ML9
B	-19	VAL	-	expression tag	UNP Q74ML9
B	-18	PRO	-	expression tag	UNP Q74ML9
B	-17	ARG	-	expression tag	UNP Q74ML9
B	-16	GLY	-	expression tag	UNP Q74ML9
B	-15	SER	-	expression tag	UNP Q74ML9
B	-14	HIS	-	expression tag	UNP Q74ML9
B	-13	MET	-	expression tag	UNP Q74ML9
B	-12	ALA	-	expression tag	UNP Q74ML9
B	-11	SER	-	expression tag	UNP Q74ML9
B	-10	MET	-	expression tag	UNP Q74ML9
B	-9	THR	-	expression tag	UNP Q74ML9
B	-8	GLY	-	expression tag	UNP Q74ML9
B	-7	GLY	-	expression tag	UNP Q74ML9
B	-6	GLN	-	expression tag	UNP Q74ML9
B	-5	GLN	-	expression tag	UNP Q74ML9

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-4	MET	-	expression tag	UNP Q74ML9
B	-3	GLY	-	expression tag	UNP Q74ML9
B	-2	ARG	-	expression tag	UNP Q74ML9
B	-1	GLY	-	expression tag	UNP Q74ML9
B	0	SER	-	expression tag	UNP Q74ML9
D	-33	MET	-	initiating methionine	UNP Q74ML9
D	-32	GLY	-	expression tag	UNP Q74ML9
D	-31	SER	-	expression tag	UNP Q74ML9
D	-30	SER	-	expression tag	UNP Q74ML9
D	-29	HIS	-	expression tag	UNP Q74ML9
D	-28	HIS	-	expression tag	UNP Q74ML9
D	-27	HIS	-	expression tag	UNP Q74ML9
D	-26	HIS	-	expression tag	UNP Q74ML9
D	-25	HIS	-	expression tag	UNP Q74ML9
D	-24	HIS	-	expression tag	UNP Q74ML9
D	-23	SER	-	expression tag	UNP Q74ML9
D	-22	SER	-	expression tag	UNP Q74ML9
D	-21	GLY	-	expression tag	UNP Q74ML9
D	-20	LEU	-	expression tag	UNP Q74ML9
D	-19	VAL	-	expression tag	UNP Q74ML9
D	-18	PRO	-	expression tag	UNP Q74ML9
D	-17	ARG	-	expression tag	UNP Q74ML9
D	-16	GLY	-	expression tag	UNP Q74ML9
D	-15	SER	-	expression tag	UNP Q74ML9
D	-14	HIS	-	expression tag	UNP Q74ML9
D	-13	MET	-	expression tag	UNP Q74ML9
D	-12	ALA	-	expression tag	UNP Q74ML9
D	-11	SER	-	expression tag	UNP Q74ML9
D	-10	MET	-	expression tag	UNP Q74ML9
D	-9	THR	-	expression tag	UNP Q74ML9
D	-8	GLY	-	expression tag	UNP Q74ML9
D	-7	GLY	-	expression tag	UNP Q74ML9
D	-6	GLN	-	expression tag	UNP Q74ML9
D	-5	GLN	-	expression tag	UNP Q74ML9
D	-4	MET	-	expression tag	UNP Q74ML9
D	-3	GLY	-	expression tag	UNP Q74ML9
D	-2	ARG	-	expression tag	UNP Q74ML9
D	-1	GLY	-	expression tag	UNP Q74ML9
D	0	SER	-	expression tag	UNP Q74ML9

- Molecule 3 is a RNA chain called ssRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	E	7	Total 133	C 60	N 30	O 37	P 6	0	0	0

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total 1	Ca 1	0	0
4	A	1	Total 1	Ca 1	0	0
4	D	1	Total 1	Ca 1	0	0
4	C	2	Total 2	Ca 2	0	0


- Molecule 5 is water.

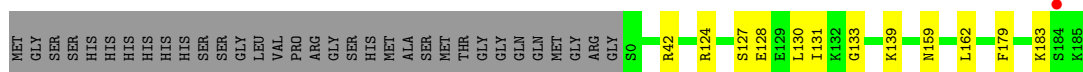
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	69	Total 69	O 69	0	0
5	B	61	Total 61	O 61	0	0
5	C	29	Total 29	O 29	0	0
5	D	47	Total 47	O 47	0	0
5	E	12	Total 12	O 12	0	0

3 Residue-property plots [i](#)


These plots are drawn for all protein, RNA and DNA 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 and electron density. 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. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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.

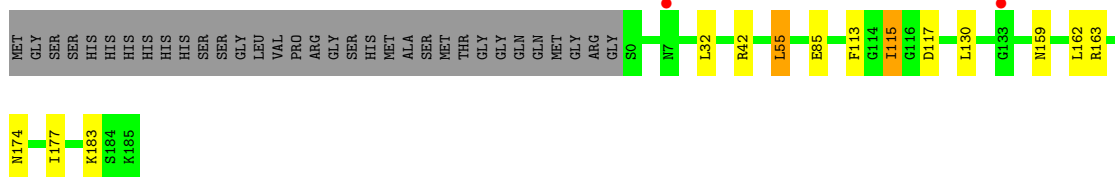
• Molecule 1: NEQ131

Chain A: 




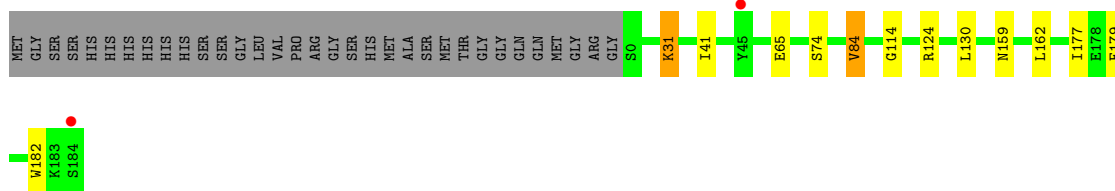
• Molecule 1: NEQ131

Chain C: 




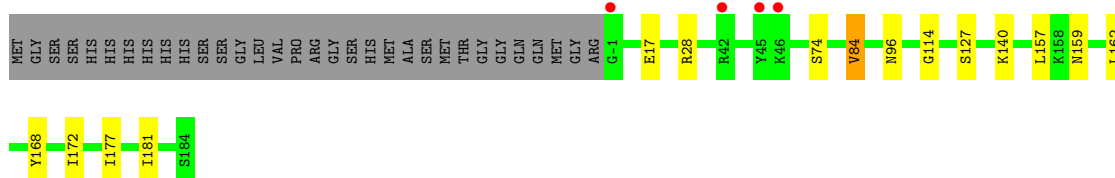
• Molecule 2: NEQ131

Chain B: 

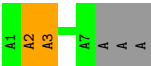


• Molecule 2: NEQ131

Chain D: 



• Molecule 3: ssRNA



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	165.42Å 77.65Å 87.75Å 90.00° 118.81° 90.00°	Depositor
Resolution (Å)	29.07 – 1.90 29.06 – 1.90	Depositor EDS
% Data completeness (in resolution range)	97.9 (29.07-1.90) 97.9 (29.06-1.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.21 (at 1.91Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.206 , 0.230 0.208 , 0.229	Depositor DCC
R_{free} test set	3784 reflections (5.30%)	DCC
Wilson B-factor (Å ²)	19.5	Xtriage
Anisotropy	0.490	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 39.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6561	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.64% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CA

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	0.49	1/1587 (0.1%)	0.58	0/2128
1	C	0.75	3/1581 (0.2%)	0.76	3/2119 (0.1%)
2	B	0.46	1/1570 (0.1%)	0.59	0/2110
2	D	0.59	0/1586	0.67	0/2126
3	E	0.86	3/150 (2.0%)	0.92	1/233 (0.4%)
All	All	0.59	8/6474 (0.1%)	0.66	4/8716 (0.0%)

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	85	GLU	CD-OE2	-11.92	1.12	1.25
1	A	128	GLU	CD-OE1	-6.11	1.19	1.25
3	E	3	A	P-OP1	-5.61	1.39	1.49
3	E	3	A	O3'-P	-5.55	1.54	1.61
1	C	85	GLU	CD-OE1	-5.43	1.19	1.25

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	117	ASP	CB-CG-OD2	8.06	125.55	118.30
3	E	2	A	O5'-P-OP1	-5.73	100.55	105.70
1	C	55	LEU	CA-CB-CG	5.40	127.72	115.30
1	C	163	ARG	NE-CZ-NH2	-5.17	117.72	120.30

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	1555	0	1587	10	0
1	C	1555	0	1588	9	0
2	B	1538	0	1551	8	0
2	D	1557	0	1599	8	0
3	E	133	0	67	0	0
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	2	0	0	0	0
4	D	1	0	0	0	0
5	A	69	0	0	3	0
5	B	61	0	0	0	0
5	C	29	0	0	2	0
5	D	47	0	0	1	0
5	E	12	0	0	0	0
All	All	6561	0	6392	29	0

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.

The worst 5 of 29 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:C:130:LEU:HD22	1:C:183:LYS:HG3	1.63	0.80
1:C:113:PHE:O	5:C:301:HOH:O	2.13	0.67
2:D:168:TYR:CE2	2:D:172:ILE:HD11	2.30	0.66
2:B:130:LEU:HD13	2:B:179:PHE:HB3	1.76	0.65
1:A:131:ILE:HD11	1:C:177:ILE:HG23	1.80	0.62

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 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 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	186/219 (85%)	185 (100%)	1 (0%)	0	100	100
1	C	184/219 (84%)	183 (100%)	1 (0%)	0	100	100
2	B	185/218 (85%)	184 (100%)	1 (0%)	0	100	100
2	D	185/218 (85%)	183 (99%)	2 (1%)	0	100	100
All	All	740/874 (85%)	735 (99%)	5 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains [i](#)

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	170/197 (86%)	170 (100%)	0	100	100
1	C	170/197 (86%)	168 (99%)	2 (1%)	75	75
2	B	167/196 (85%)	164 (98%)	3 (2%)	64	60
2	D	172/196 (88%)	168 (98%)	4 (2%)	56	49
All	All	679/786 (86%)	670 (99%)	9 (1%)	73	72

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	55	LEU
2	D	157	LEU
2	D	74	SER

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Mol	Chain	Res	Type
2	B	84	VAL
2	D	17	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 11 such sidechains are listed below:

Mol	Chain	Res	Type
2	B	174	ASN
1	C	13	GLN
1	C	159	ASN
2	B	159	ASN
1	C	81	GLN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
3	E	5/10 (50%)	2 (40%)	0

All (2) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
3	E	2	A
3	E	3	A

There are no RNA pucker outliers to report.

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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 5 ligands modelled in this entry, 5 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	186/219 (84%)	-0.21	1 (0%) 90 92	11, 18, 30, 58	0
1	C	186/219 (84%)	0.14	2 (1%) 80 83	13, 23, 36, 46	0
2	B	185/218 (84%)	-0.17	2 (1%) 80 83	12, 19, 33, 45	0
2	D	186/218 (85%)	0.02	4 (2%) 62 66	12, 21, 35, 54	0
3	E	7/10 (70%)	-0.01	0 100 100	18, 21, 48, 53	0
All	All	750/884 (84%)	-0.06	9 (1%) 79 82	11, 21, 35, 58	0

The worst 5 of 9 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	-1	GLY	3.3
2	D	46	LYS	3.1
1	A	184	SER	3.0
2	D	42	ARG	2.9
1	C	133	GLY	2.3

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

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

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron

density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
4	CA	C	202	1/1	1.00	0.07	-1.97	17,17,17,17	0
4	CA	C	201	1/1	1.00	0.05	-2.59	16,16,16,16	0
4	CA	D	201	1/1	0.99	0.04	-	39,39,39,39	0
4	CA	A	201	1/1	0.95	0.06	-	52,52,52,52	0
4	CA	B	201	1/1	0.95	0.06	-	57,57,57,57	0

6.5 Other polymers [i](#)

There are no such residues in this entry.