



# Full wwPDB X-ray Structure Validation Report ⓘ

Dec 16, 2023 – 08:21 pm GMT

PDB ID : 4CN7  
Title : Crystal Structure of the Human Retinoid X Receptor DNA-Binding Domain Bound to an idealized DR1 Response Element  
Authors : McEwen, A.G.; Poussin-Courmontagne, P.; Osz, J.; Rochel, N.  
Deposited on : 2014-01-21  
Resolution : 2.34 Å(reported)

This is a Full wwPDB X-ray 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/XrayValidationReportHelp>

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:

MolProbity : 4.02b-467  
Xtriage (Phenix) : 1.13  
EDS : 2.36  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36

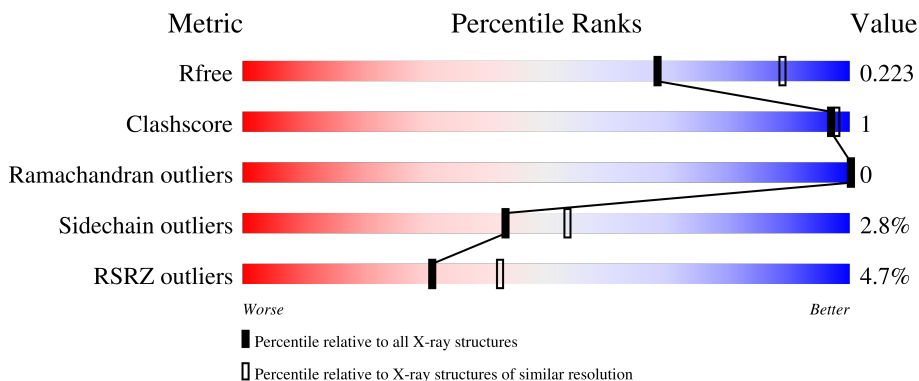
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.34 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))
$R_{free}$	130704	2096 (2.36-2.32)
Clashscore	141614	2193 (2.36-2.32)
Ramachandran outliers	138981	2159 (2.36-2.32)
Sidechain outliers	138945	2160 (2.36-2.32)
RSRZ outliers	127900	2067 (2.36-2.32)

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 of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria respectively. 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	87	
1	B	87	
1	E	87	
1	F	87	
2	C	16	

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Mol	Chain	Length	Quality of chain
2	G	16	 56% 31% 12%
3	D	16	 44% 56%
3	H	16	 62% 38%

## 2 Entry composition i

There are 6 unique types of molecules in this entry. The entry contains 3925 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 RETINOIC ACID RECEPTOR RXR-ALPHA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	79	Total 596	C 364	N 111	O 109	S 12	0	0	0
1	B	79	Total 620	C 381	N 115	O 113	S 11	0	0	0
1	E	77	Total 606	C 371	N 113	O 111	S 11	0	0	0
1	F	80	Total 641	C 389	N 125	O 116	S 11	0	0	0

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	126	GLY	-	expression tag	UNP P19793
A	127	SER	-	expression tag	UNP P19793
A	128	HIS	-	expression tag	UNP P19793
A	129	MET	-	expression tag	UNP P19793
B	126	GLY	-	expression tag	UNP P19793
B	127	SER	-	expression tag	UNP P19793
B	128	HIS	-	expression tag	UNP P19793
B	129	MET	-	expression tag	UNP P19793
E	126	GLY	-	expression tag	UNP P19793
E	127	SER	-	expression tag	UNP P19793
E	128	HIS	-	expression tag	UNP P19793
E	129	MET	-	expression tag	UNP P19793
F	126	GLY	-	expression tag	UNP P19793
F	127	SER	-	expression tag	UNP P19793
F	128	HIS	-	expression tag	UNP P19793
F	129	MET	-	expression tag	UNP P19793

- Molecule 2 is a DNA chain called 5'-D(\*CP\*TP\*AP\*GP\*GP\*TP\*CP\*AP\*AP\*AP\*GP\*GP\*TP\*CP\*AP\*GP)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	16	Total	C	N	O	P	0	0	0
			329	157	65	92	15			
2	G	16	Total	C	N	O	P	0	0	0
			329	157	65	92	15			

- Molecule 3 is a DNA chain called 5'-D(\*CP\*TP\*GP\*AP\*CP\*CP\*TP\*TP\*TP\*GP\*AP\*CP\*CP\*TP\*AP\*GP)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	16	Total	C	N	O	P	0	0	0
			321	155	55	96	15			
3	H	16	Total	C	N	O	P	0	0	0
			321	155	55	96	15			

- Molecule 4 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	2	Total	Zn	0	0
			2	2		
4	B	2	Total	Zn	0	0
			2	2		
4	E	2	Total	Zn	0	0
			2	2		
4	F	2	Total	Zn	0	0
			2	2		

- Molecule 5 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	2	Total	Cl	0	0
			2	2		
5	B	1	Total	Cl	0	0
			1	1		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	30	Total	O	0	0
			30	30		
6	B	34	Total	O	0	0
			34	34		
6	C	13	Total	O	0	0
			13	13		

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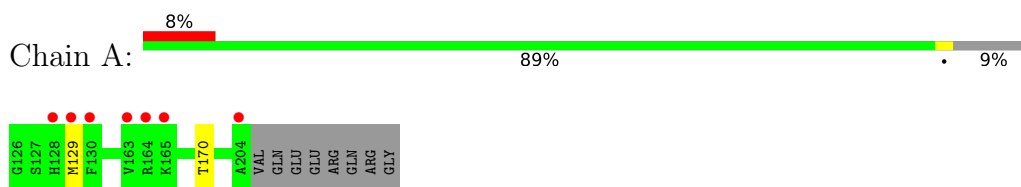
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<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>	<b>ZeroOcc</b>	<b>AltConf</b>
6	D	10	Total O 10 10	0	0
6	E	19	Total O 19 19	0	0
6	F	29	Total O 29 29	0	0
6	G	10	Total O 10 10	0	0
6	H	6	Total O 6 6	0	0

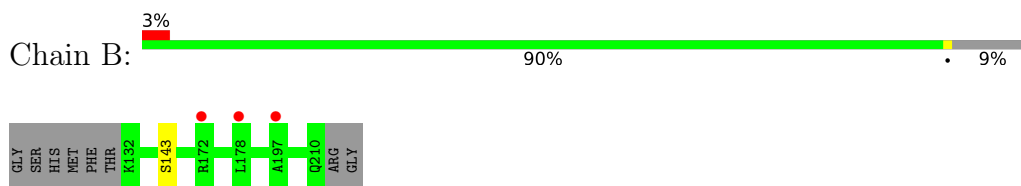
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide 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.

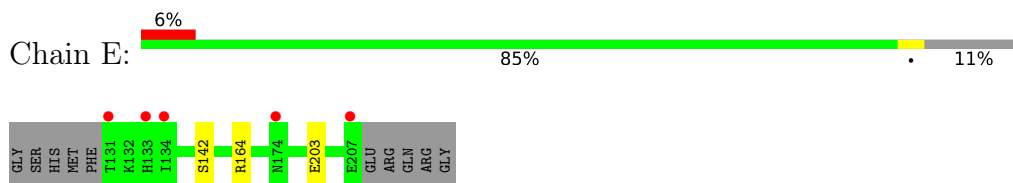
- Molecule 1: RETINOIC ACID RECEPTOR RXR-ALPHA



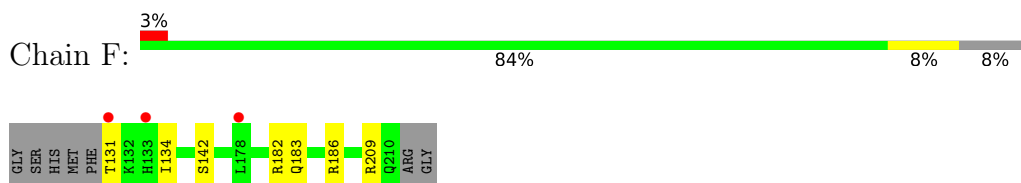
- Molecule 1: RETINOIC ACID RECEPTOR RXR-ALPHA



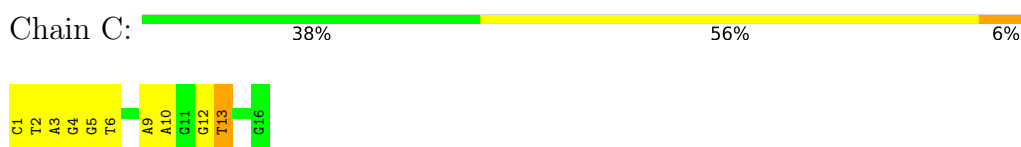
- Molecule 1: RETINOIC ACID RECEPTOR RXR-ALPHA



- Molecule 1: RETINOIC ACID RECEPTOR RXR-ALPHA



- Molecule 2: 5'-D(\*CP\*TP\*AP\*GP\*GP\*TP\*CP\*AP\*AP\*AP\*GP\*GP\*TP\*CP \*AP\*GP)-3'



- Molecule 2: 5'-D(\*CP\*TP\*AP\*GP\*GP\*TP\*CP\*AP\*AP\*AP\*GP\*GP\*TP\*CP \*AP\*GP)-3'

Chain G:  56% 31% 12%



- Molecule 3: 5'-D(\*CP\*TP\*GP\*AP\*CP\*CP\*TP\*TP\*TP\*GP\*AP\*CP\*CP\*TP \*AP\*GP)-3'

Chain D:  44% 56%



- Molecule 3: 5'-D(\*CP\*TP\*GP\*AP\*CP\*CP\*TP\*TP\*TP\*GP\*AP\*CP\*CP\*TP \*AP\*GP)-3'

Chain H:  62% 38%





## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	37.63Å 65.35Å 209.12Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.82 – 2.34 40.82 – 2.34	Depositor EDS
% Data completeness (in resolution range)	98.1 (40.82-2.34) 98.4 (40.82-2.34)	Depositor EDS
$R_{merge}$	0.07	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.05 (at 2.34Å)	Xtrriage
Refinement program	BUSTER 2.10.0	Depositor
R, $R_{free}$	0.173 , 0.209 0.191 , 0.223	Depositor DCC
$R_{free}$ test set	1113 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	49.6	Xtrriage
Anisotropy	1.026	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.28 , 41.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	3925	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	66.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.85% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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 i

### 5.1 Standard geometry i

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

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	0.52	0/606	0.74	0/808
1	B	0.53	0/628	0.65	0/834
1	E	0.48	0/614	0.64	0/816
1	F	0.50	0/649	0.69	0/861
2	C	1.14	0/370	1.84	16/570 (2.8%)
2	G	1.01	0/370	1.85	10/570 (1.8%)
3	D	1.21	0/358	1.81	8/550 (1.5%)
3	H	1.16	0/358	1.84	9/550 (1.6%)
All	All	0.80	0/3953	1.28	43/5559 (0.8%)

There are no bond length outliers.

All (43) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	4	DG	O4'-C1'-N9	9.82	114.87	108.00
3	H	6	DC	O4'-C1'-N1	8.99	114.29	108.00
2	C	2	DT	P-O5'-C5'	8.87	135.09	120.90
2	G	2	DT	P-O5'-C5'	8.09	133.84	120.90
3	D	6	DC	O4'-C1'-N1	7.69	113.38	108.00
3	D	14	DT	O4'-C1'-N1	7.46	113.22	108.00
3	D	7	DT	P-O3'-C3'	7.44	128.62	119.70
2	G	10	DA	O4'-C4'-C3'	-7.31	101.58	104.50
3	H	11	DA	P-O3'-C3'	7.11	128.23	119.70
2	G	3	DA	O5'-P-OP2	-7.02	99.38	105.70
2	C	10	DA	O4'-C4'-C3'	-6.91	101.73	104.50
2	G	4	DG	O4'-C1'-C2'	6.88	111.41	105.90
3	D	11	DA	P-O3'-C3'	6.79	127.85	119.70
3	D	9	DT	O4'-C1'-C2'	-6.75	100.50	105.90
2	C	4	DG	P-O3'-C3'	6.66	127.69	119.70
2	G	15	DA	P-O3'-C3'	6.59	127.61	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	7	DT	P-O3'-C3'	6.48	127.47	119.70
2	G	2	DT	P-O3'-C3'	6.45	127.44	119.70
3	D	5	DC	P-O3'-C3'	6.27	127.22	119.70
2	C	5	DG	P-O3'-C3'	6.24	127.19	119.70
2	C	3	DA	P-O5'-C5'	6.05	130.59	120.90
3	H	6	DC	O4'-C4'-C3'	-5.94	102.12	104.50
2	C	9	DA	O4'-C1'-N9	5.91	112.14	108.00
3	D	12	DC	P-O3'-C3'	5.78	126.63	119.70
2	G	9	DA	O4'-C1'-N9	5.70	111.99	108.00
2	C	6	DT	N3-C4-O4	-5.65	116.51	119.90
2	C	5	DG	C5-C6-O6	-5.61	125.23	128.60
2	C	13	DT	P-O5'-C5'	5.57	129.82	120.90
2	C	5	DG	O5'-P-OP2	-5.52	100.73	105.70
3	H	12	DC	P-O3'-C3'	5.49	126.29	119.70
3	H	5	DC	P-O3'-C3'	5.44	126.23	119.70
3	H	8	DT	P-O3'-C3'	5.41	126.19	119.70
3	H	8	DT	N3-C4-O4	-5.39	116.67	119.90
2	G	4	DG	P-O5'-C5'	5.37	129.49	120.90
2	G	11	DG	P-O3'-C3'	5.33	126.09	119.70
2	C	4	DG	O4'-C1'-N9	-5.31	104.29	108.00
3	D	6	DC	C1'-O4'-C4'	-5.23	104.87	110.10
3	H	5	DC	O4'-C1'-N1	5.23	111.66	108.00
2	C	5	DG	N3-C2-N2	-5.15	116.29	119.90
2	C	1	DC	O4'-C1'-N1	5.14	111.60	108.00
2	C	6	DT	C4-C5-C7	5.08	122.05	119.00
2	C	6	DT	P-O3'-C3'	5.06	125.78	119.70
2	C	5	DG	OP2-P-O3'	5.03	116.27	105.20

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	596	0	533	0	0
1	B	620	0	584	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	E	606	0	578	1	0
1	F	641	0	617	3	0
2	C	329	0	181	1	0
2	G	329	0	181	2	0
3	D	321	0	183	1	0
3	H	321	0	183	0	0
4	A	2	0	0	0	0
4	B	2	0	0	0	0
4	E	2	0	0	0	0
4	F	2	0	0	0	0
5	A	2	0	0	0	0
5	B	1	0	0	0	0
6	A	30	0	0	0	0
6	B	34	0	0	0	0
6	C	13	0	0	0	0
6	D	10	0	0	0	0
6	E	19	0	0	0	0
6	F	29	0	0	0	0
6	G	10	0	0	0	0
6	H	6	0	0	0	0
All	All	3925	0	3040	6	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 1.

All (6) 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:E:164:ARG:HH22	2:G:4:DG:H3'	1.40	0.85
1:F:183:GLN:HE21	1:F:186:ARG:HD3	1.46	0.80
3:D:1:DC:H2'	3:D:2:DT:H71	1.97	0.47
1:F:131:THR:HG23	1:F:134:ILE:HD11	1.96	0.47
1:F:209:ARG:NE	2:G:11:DG:H4'	2.35	0.42
2:C:12:DG:H2''	2:C:13:DT:H5'	2.02	0.41

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	77/87 (88%)	70 (91%)	7 (9%)	0	100	100
1	B	77/87 (88%)	76 (99%)	1 (1%)	0	100	100
1	E	75/87 (86%)	74 (99%)	1 (1%)	0	100	100
1	F	78/87 (90%)	75 (96%)	3 (4%)	0	100	100
All	All	307/348 (88%)	295 (96%)	12 (4%)	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	59/76 (78%)	57 (97%)	2 (3%)	37	46
1	B	63/76 (83%)	62 (98%)	1 (2%)	62	74
1	E	64/76 (84%)	62 (97%)	2 (3%)	40	49
1	F	68/76 (90%)	66 (97%)	2 (3%)	42	52
All	All	254/304 (84%)	247 (97%)	7 (3%)	43	53

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	129	MET
1	A	170	THR

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Mol	Chain	Res	Type
1	B	143	SER
1	E	142	SER
1	E	203	GLU
1	F	142	SER
1	F	182	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	F	183	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 11 ligands modelled in this entry, 11 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

### 6.1 Protein, DNA and RNA chains

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	79/87 (90%)	0.37	7 (8%) 9 15	45, 62, 109, 131	0
1	B	79/87 (90%)	0.10	3 (3%) 40 51	40, 57, 99, 111	0
1	E	77/87 (88%)	0.41	5 (6%) 18 26	52, 75, 117, 136	0
1	F	80/87 (91%)	0.13	3 (3%) 40 51	42, 64, 99, 110	0
2	C	16/16 (100%)	-0.59	0 100 100	44, 64, 68, 71	0
2	G	16/16 (100%)	-0.55	0 100 100	50, 71, 78, 87	0
3	D	16/16 (100%)	-0.52	0 100 100	46, 53, 77, 84	0
3	H	16/16 (100%)	-0.53	0 100 100	46, 60, 93, 94	0
All	All	379/412 (91%)	0.12	18 (4%) 31 42	40, 65, 104, 136	0

All (18) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	129	MET	6.3
1	E	131	THR	5.7
1	A	165	LYS	5.5
1	E	133	HIS	5.1
1	E	174	ASN	5.0
1	A	164	ARG	4.5
1	A	130	PHE	4.0
1	F	178	LEU	3.3
1	F	131	THR	3.2
1	A	204	ALA	2.9
1	E	207	GLU	2.7
1	E	134	ILE	2.7
1	A	163	VAL	2.7
1	A	128	HIS	2.6
1	B	172	ARG	2.2
1	B	197	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	F	133	HIS	2.0
1	B	178	LEU	2.0

## 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 monosaccharides 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. The B-factors column lists the minimum, median, 95<sup>th</sup> 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	B-factors( $\text{\AA}^2$ )	Q<0.9
5	CL	B	1213	1/1	0.84	0.20	91,91,91,91	0
5	CL	A	1208	1/1	0.90	0.16	85,85,85,85	0
5	CL	A	1207	1/1	0.96	0.28	68,68,68,68	0
4	ZN	B	1212	1/1	0.99	0.09	69,69,69,69	0
4	ZN	E	1209	1/1	0.99	0.07	90,90,90,90	0
4	ZN	F	1211	1/1	0.99	0.11	49,49,49,49	0
4	ZN	F	1212	1/1	0.99	0.12	62,62,62,62	0
4	ZN	A	1205	1/1	0.99	0.14	50,50,50,50	0
4	ZN	A	1206	1/1	0.99	0.11	69,69,69,69	0
4	ZN	B	1211	1/1	0.99	0.13	54,54,54,54	0
4	ZN	E	1208	1/1	1.00	0.08	63,63,63,63	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.