



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 20, 2017 – 01:57 PM EDT

PDB ID : 5C13
Title : Crystal Structure of TAF3 PHD finger bound to histone H3C4me3 peptide
Authors : Li, H.; Huang, J.
Deposited on : unknown
Resolution : 2.10 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

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
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20029824
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) : rb-20029824

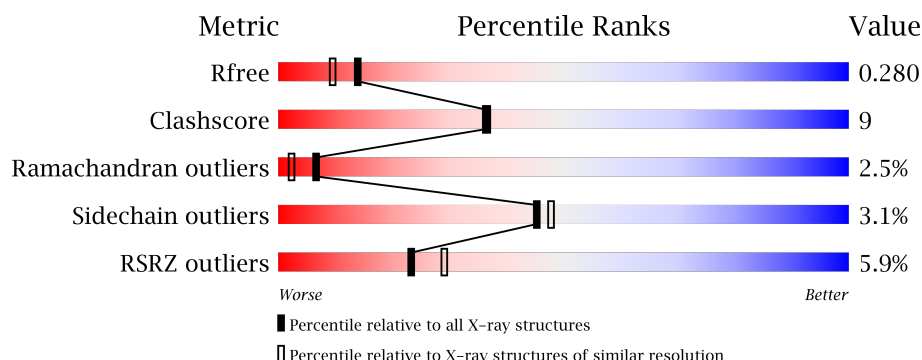
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.10 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	4243 (2.10-2.10)
Clashscore	112137	4788 (2.10-2.10)
Ramachandran outliers	110173	4740 (2.10-2.10)
Sidechain outliers	110143	4741 (2.10-2.10)
RSRZ outliers	101464	4275 (2.10-2.10)

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	64	<div> <div>3%</div> <div>78% 13% 8%</div> </div>
1	C	64	<div> <div>5%</div> <div>78% 9% 5% 8%</div> </div>
1	E	64	<div> <div>9%</div> <div>73% 17% 8%</div> </div>
1	G	64	<div> <div>6%</div> <div>70% 19% 8%</div> </div>
2	D	10	<div> <div>50% 10% 40%</div> </div>

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Mol	Chain	Length	Quality of chain
2	F	10	 60% 40%
2	H	10	 50% 10% 40%
2	P	10	 50% 10% 40%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4094 atoms, of which 1900 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 Transcription initiation factor TFIID subunit 3.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	59	Total 890	C 303	H 414	N 75	O 87	S 11	0	0	0
1	C	59	Total 890	C 303	H 414	N 75	O 87	S 11	0	0	0
1	E	59	Total 890	C 303	H 414	N 75	O 87	S 11	0	0	0
1	G	59	Total 890	C 303	H 414	N 75	O 87	S 11	0	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	854	GLY	-	expression tag	UNP Q5VWG9
A	855	SER	-	expression tag	UNP Q5VWG9
A	856	MET	-	expression tag	UNP Q5VWG9
C	854	GLY	-	expression tag	UNP Q5VWG9
C	855	SER	-	expression tag	UNP Q5VWG9
C	856	MET	-	expression tag	UNP Q5VWG9
E	854	GLY	-	expression tag	UNP Q5VWG9
E	855	SER	-	expression tag	UNP Q5VWG9
E	856	MET	-	expression tag	UNP Q5VWG9
G	854	GLY	-	expression tag	UNP Q5VWG9
G	855	SER	-	expression tag	UNP Q5VWG9
G	856	MET	-	expression tag	UNP Q5VWG9

- Molecule 2 is a protein called H3 peptide.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	P	6	Total	C	H	N	O	0	0	0
			112	32	61	10	9			
2	D	6	Total	C	H	N	O	0	0	0
			112	32	61	10	9			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	F	6	Total	C	H	N	O	0	0	0
			112	32	61	10	9			
2	H	6	Total	C	H	N	O	0	0	0
			112	32	61	10	9			

- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	G	2	Total	Zn	0	0
			2	2		
3	A	2	Total	Zn	0	0
			2	2		
3	C	2	Total	Zn	0	0
			2	2		
3	E	2	Total	Zn	0	0
			2	2		

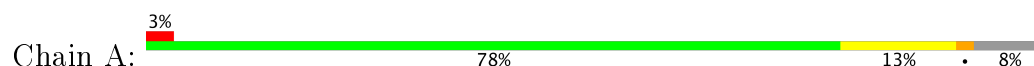
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	18	Total	O	0	0
			18	18		
4	P	3	Total	O	0	0
			3	3		
4	C	21	Total	O	0	0
			21	21		
4	D	3	Total	O	0	0
			3	3		
4	E	14	Total	O	0	0
			14	14		
4	F	1	Total	O	0	0
			1	1		
4	G	16	Total	O	0	0
			16	16		
4	H	2	Total	O	0	0
			2	2		

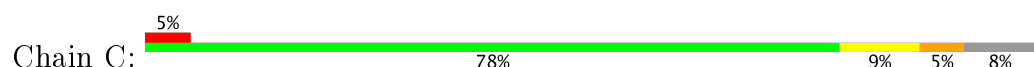
3 Residue-property plots [i](#)

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.

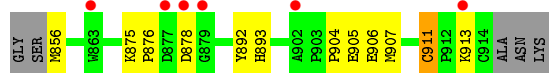
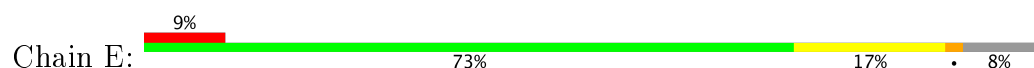
- Molecule 1: Transcription initiation factor TFIID subunit 3



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- Molecule 1: Transcription initiation factor TFIID subunit 3



- Molecule 2: H3 peptide

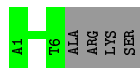


- Molecule 2: H3 peptide

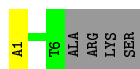




- Molecule 2: H3 peptide



- Molecule 2: H3 peptide



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	30.21Å 50.10Å 85.95Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	32.62 – 2.10 32.62 – 2.10	Depositor EDS
% Data completeness (in resolution range)	99.0 (32.62-2.10) 99.2 (32.62-2.10)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.94 (at 2.10Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.222 , 0.280 0.222 , 0.280	Depositor DCC
R_{free} test set	760 reflections (5.07%)	DCC
Wilson B-factor (Å ²)	25.1	Xtriage
Anisotropy	0.691	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.42 , 55.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.059 for h,-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4094	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 47.00 % of the origin peak, indicating pseudo translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo translational symmetry is equal to 1.0564e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

¹ Intensities estimated from amplitudes.

² 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, 4WQ

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	0.60	0/496	0.74	0/679
1	C	0.61	0/496	0.75	0/679
1	E	0.58	0/496	0.74	0/679
1	G	0.67	0/496	0.71	0/679
2	D	0.60	0/37	0.65	0/47
2	F	0.58	0/37	0.62	0/47
2	H	0.70	0/37	0.70	0/47
2	P	0.61	0/37	0.69	0/47
All	All	0.61	0/2132	0.73	0/2904

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 outliers	#Planarity outliers
1	C	0	1

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	878	ASP	Peptide

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	476	414	414	6	0
1	C	476	414	414	10	0
1	E	476	414	414	9	0
1	G	476	414	414	11	0
2	D	51	61	60	0	0
2	F	51	61	60	0	0
2	H	51	61	60	1	0
2	P	51	61	60	2	0
3	A	2	0	0	0	0
3	C	2	0	0	0	0
3	E	2	0	0	0	0
3	G	2	0	0	0	0
4	A	18	0	0	1	0
4	C	21	0	0	3	0
4	D	3	0	0	0	0
4	E	14	0	0	2	0
4	F	1	0	0	0	0
4	G	16	0	0	3	0
4	H	2	0	0	0	0
4	P	3	0	0	2	0
All	All	2194	1900	1896	36	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 9.

All (36) 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:A:879:GLY:O	4:A:1101:HOH:O	1.86	0.94
1:E:856:MET:N	4:E:1101:HOH:O	2.13	0.81
1:G:901:THR:O	4:G:1101:HOH:O	2.01	0.79
1:E:892:TYR:OH	1:E:913:LYS:NZ	2.23	0.71
1:G:879:GLY:O	4:G:1102:HOH:O	2.09	0.69
1:C:875:LYS:HE3	1:G:868:TRP:CZ2	2.29	0.67
4:G:1106:HOH:O	2:H:1:ALA:HB1	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:P:5:GLN:NE2	4:P:101:HOH:O	2.05	0.61
1:C:878:ASP:N	4:C:1103:HOH:O	2.29	0.60
1:A:860:ARG:NH2	1:E:905:GLU:OE2	2.34	0.58
1:C:878:ASP:OD1	1:C:893:HIS:NE2	2.40	0.52
1:C:858:VAL:HG12	1:C:868:TRP:CD2	2.47	0.50
1:C:875:LYS:O	4:C:1101:HOH:O	2.18	0.50
1:C:906:GLU:CD	1:C:906:GLU:H	2.15	0.50
1:C:878:ASP:CG	1:C:893:HIS:HE2	2.15	0.50
1:E:913:LYS:HD3	4:E:1102:HOH:O	2.12	0.48
1:E:876:PRO:O	1:E:878:ASP:N	2.46	0.48
1:A:878:ASP:CG	1:A:893:HIS:HE2	2.15	0.48
1:G:904:PRO:HG2	1:G:907:MET:CE	2.44	0.48
1:A:906:GLU:CD	1:A:906:GLU:H	2.19	0.46
1:G:878:ASP:CG	1:G:893:HIS:HE2	2.19	0.45
1:G:885:CYS:HB2	1:G:911:CYS:HB3	1.99	0.45
1:G:875:LYS:CD	1:G:876:PRO:HD2	2.46	0.45
1:A:869:ILE:HG22	1:A:874:ASN:HA	1.98	0.45
1:E:904:PRO:HG2	1:E:907:MET:CE	2.47	0.44
1:G:906:GLU:H	1:G:906:GLU:CD	2.20	0.44
1:E:878:ASP:CG	1:E:893:HIS:HE2	2.22	0.44
1:A:869:ILE:CG2	1:A:874:ASN:HA	2.48	0.43
2:P:5:GLN:NE2	4:P:103:HOH:O	2.50	0.43
1:E:906:GLU:CD	1:E:906:GLU:H	2.20	0.43
1:C:913:LYS:HE3	1:G:863:TRP:CE3	2.53	0.42
1:C:868:TRP:N	1:C:868:TRP:CD1	2.87	0.42
1:G:875:LYS:HD2	1:G:876:PRO:HD2	2.02	0.42
1:E:875:LYS:HA	1:E:875:LYS:HD2	1.90	0.41
1:G:909:TRP:CZ2	1:G:911:CYS:HA	2.56	0.40
1:C:878:ASP:CB	4:C:1107:HOH:O	2.70	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 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 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	57/64 (89%)	53 (93%)	3 (5%)	1 (2%)	10	4
1	C	57/64 (89%)	50 (88%)	5 (9%)	2 (4%)	4	1
1	E	57/64 (89%)	51 (90%)	5 (9%)	1 (2%)	10	4
1	G	57/64 (89%)	52 (91%)	3 (5%)	2 (4%)	4	1
2	D	3/10 (30%)	3 (100%)	0	0	100	100
2	F	3/10 (30%)	3 (100%)	0	0	100	100
2	H	3/10 (30%)	3 (100%)	0	0	100	100
2	P	3/10 (30%)	3 (100%)	0	0	100	100
All	All	240/296 (81%)	218 (91%)	16 (7%)	6 (2%)	6	2

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	G	878	ASP
1	C	880	SER
1	C	911	CYS
1	G	911	CYS
1	E	911	CYS
1	A	911	CYS

5.3.2 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 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	53/56 (95%)	51 (96%)	2 (4%)	38	38
1	C	53/56 (95%)	51 (96%)	2 (4%)	38	38
1	E	53/56 (95%)	52 (98%)	1 (2%)	62	68
1	G	53/56 (95%)	52 (98%)	1 (2%)	62	68
2	D	4/7 (57%)	3 (75%)	1 (25%)	1	0
2	F	4/7 (57%)	4 (100%)	0	100	100
2	H	4/7 (57%)	4 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	P	4/7 (57%)	4 (100%)	0	100	100
All	All	228/252 (90%)	221 (97%)	7 (3%)	45	48

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

Mol	Chain	Res	Type
1	A	862	GLU
1	A	911	CYS
1	C	906	GLU
1	C	911	CYS
2	D	5	GLN
1	E	911	CYS
1	G	911	CYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

4 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the chemical component dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
2	4WQ	D	4	2	11,11,12	1.17	1 (9%)	10,14,16	0.66	0
2	4WQ	F	4	2	11,11,12	1.49	1 (9%)	10,14,16	0.66	0
2	4WQ	H	4	2	11,11,12	1.42	2 (18%)	10,14,16	0.64	0
2	4WQ	P	4	2	11,11,12	1.22	1 (9%)	10,14,16	0.53	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	4WQ	D	4	2	-	0/8/10/12	0/0/0/0
2	4WQ	F	4	2	-	0/8/10/12	0/0/0/0
2	4WQ	H	4	2	-	0/8/10/12	0/0/0/0
2	4WQ	P	4	2	-	0/8/10/12	0/0/0/0

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	4	4WQ	CB-CA	-3.58	1.48	1.53
2	D	4	4WQ	CB-CA	-2.60	1.50	1.53
2	H	4	4WQ	CA-C	2.04	1.52	1.50
2	P	4	4WQ	CA-C	3.11	1.54	1.50
2	F	4	4WQ	CA-C	3.93	1.55	1.50

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.

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 8 ligands modelled in this entry, 8 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

There are no such residues in this entry.

5.8 Polymer linkage issues

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, 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	59/64 (92%)	0.14	2 (3%) 46 53	19, 31, 53, 75	0
1	C	59/64 (92%)	0.37	3 (5%) 29 35	17, 31, 60, 101	0
1	E	59/64 (92%)	0.33	6 (10%) 7 9	18, 32, 58, 83	0
1	G	59/64 (92%)	0.29	4 (6%) 18 23	19, 32, 54, 85	0
2	D	5/10 (50%)	0.27	0 100 100	20, 29, 34, 37	0
2	F	5/10 (50%)	0.33	0 100 100	21, 29, 36, 37	0
2	H	5/10 (50%)	0.13	0 100 100	21, 25, 33, 37	0
2	P	5/10 (50%)	0.13	0 100 100	22, 27, 35, 36	0
All	All	256/296 (86%)	0.28	15 (5%) 23 29	17, 32, 58, 101	0

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	877	ASP	7.3
1	C	879	GLY	6.2
1	G	877	ASP	4.3
1	E	879	GLY	3.9
1	G	879	GLY	2.7
1	E	913	LYS	2.7
1	E	878	ASP	2.5
1	C	878	ASP	2.4
1	E	902	ALA	2.3
1	E	863	TRP	2.3
1	G	867	ILE	2.2
1	E	877	ASP	2.1
1	G	900	MET	2.1
1	A	910	PHE	2.1
1	A	877	ASP	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
2	4WQ	P	4	12/13	0.96	0.10	-	17,25,35,35	0
2	4WQ	H	4	12/13	0.92	0.12	-	16,25,35,35	0
2	4WQ	F	4	12/13	0.95	0.12	-	19,24,34,34	0
2	4WQ	D	4	12/13	0.95	0.11	-	13,23,32,32	0

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
3	ZN	E	1002	1/1	1.00	0.11	-0.15	23,23,23,23	0
3	ZN	G	1001	1/1	1.00	0.13	-0.15	28,28,28,28	0
3	ZN	A	1001	1/1	0.99	0.11	-0.32	28,28,28,28	0
3	ZN	C	1002	1/1	0.99	0.10	-0.56	22,22,22,22	0
3	ZN	G	1002	1/1	1.00	0.09	-0.69	23,23,23,23	0
3	ZN	A	1002	1/1	0.99	0.10	-0.78	23,23,23,23	0
3	ZN	C	1001	1/1	0.99	0.10	-0.80	27,27,27,27	0
3	ZN	E	1001	1/1	0.98	0.08	-0.82	28,28,28,28	0

6.5 Other polymers [i](#)

There are no such residues in this entry.