



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 3, 2023 – 07:56 AM EDT

PDB ID : 6O09
Title : Structure of AtPCNA in complex with the PIP motif of ATXR6
Authors : Couture, J.F.; Davarinejad, H.
Deposited on : 2019-02-15
Resolution : 2.06 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

<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>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : **FAILED**
Xtrriage (Phenix) : 1.13
EDS : **FAILED**
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35.1

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 2.06 Å.

There are no overall percentile quality scores available for this entry.

MolProbity and EDS failed to run properly - the sequence quality summary graphics cannot be shown.

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 12307 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 Proliferating cellular nuclear antigen 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	C	261	1926	1219	315	375	17	0	0	0
1	A	261	1916	1217	309	374	16	0	0	0
1	D	261	1904	1205	308	376	15	0	0	0
1	F	262	1919	1210	310	384	15	0	0	0
1	H	246	1795	1148	290	340	17	0	0	0
1	K	249	1786	1143	285	342	16	0	0	0

There are 294 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	-48	MET	-	initiating methionine	UNP Q9M7Q7
C	-47	GLY	-	expression tag	UNP Q9M7Q7
C	-46	SER	-	expression tag	UNP Q9M7Q7
C	-45	SER	-	expression tag	UNP Q9M7Q7
C	-44	HIS	-	expression tag	UNP Q9M7Q7
C	-43	HIS	-	expression tag	UNP Q9M7Q7
C	-42	HIS	-	expression tag	UNP Q9M7Q7
C	-41	HIS	-	expression tag	UNP Q9M7Q7
C	-40	HIS	-	expression tag	UNP Q9M7Q7
C	-39	HIS	-	expression tag	UNP Q9M7Q7
C	-38	SER	-	expression tag	UNP Q9M7Q7
C	-37	SER	-	expression tag	UNP Q9M7Q7
C	-36	GLY	-	expression tag	UNP Q9M7Q7
C	-35	LEU	-	expression tag	UNP Q9M7Q7
C	-34	VAL	-	expression tag	UNP Q9M7Q7
C	-33	PRO	-	expression tag	UNP Q9M7Q7
C	-32	ARG	-	expression tag	UNP Q9M7Q7

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Chain	Residue	Modelled	Actual	Comment	Reference
C	-31	GLY	-	expression tag	UNP Q9M7Q7
C	-30	SER	-	expression tag	UNP Q9M7Q7
C	-29	HIS	-	expression tag	UNP Q9M7Q7
C	-28	MET	-	expression tag	UNP Q9M7Q7
C	-27	ALA	-	expression tag	UNP Q9M7Q7
C	-26	SER	-	expression tag	UNP Q9M7Q7
C	-25	MET	-	expression tag	UNP Q9M7Q7
C	-24	THR	-	expression tag	UNP Q9M7Q7
C	-23	GLY	-	expression tag	UNP Q9M7Q7
C	-22	GLY	-	expression tag	UNP Q9M7Q7
C	-21	GLN	-	expression tag	UNP Q9M7Q7
C	-20	GLN	-	expression tag	UNP Q9M7Q7
C	-19	MET	-	expression tag	UNP Q9M7Q7
C	-18	GLY	-	expression tag	UNP Q9M7Q7
C	-17	ARG	-	expression tag	UNP Q9M7Q7
C	-16	GLY	-	expression tag	UNP Q9M7Q7
C	-15	SER	-	expression tag	UNP Q9M7Q7
C	-14	MET	-	expression tag	UNP Q9M7Q7
C	-13	GLY	-	expression tag	UNP Q9M7Q7
C	-12	HIS	-	expression tag	UNP Q9M7Q7
C	-11	HIS	-	expression tag	UNP Q9M7Q7
C	-10	HIS	-	expression tag	UNP Q9M7Q7
C	-9	HIS	-	expression tag	UNP Q9M7Q7
C	-8	HIS	-	expression tag	UNP Q9M7Q7
C	-7	HIS	-	expression tag	UNP Q9M7Q7
C	-6	GLU	-	expression tag	UNP Q9M7Q7
C	-5	ASN	-	expression tag	UNP Q9M7Q7
C	-4	LEU	-	expression tag	UNP Q9M7Q7
C	-3	TYR	-	expression tag	UNP Q9M7Q7
C	-2	PHE	-	expression tag	UNP Q9M7Q7
C	-1	GLN	-	expression tag	UNP Q9M7Q7
C	0	GLY	-	expression tag	UNP Q9M7Q7
A	-48	MET	-	initiating methionine	UNP Q9M7Q7
A	-47	GLY	-	expression tag	UNP Q9M7Q7
A	-46	SER	-	expression tag	UNP Q9M7Q7
A	-45	SER	-	expression tag	UNP Q9M7Q7
A	-44	HIS	-	expression tag	UNP Q9M7Q7
A	-43	HIS	-	expression tag	UNP Q9M7Q7
A	-42	HIS	-	expression tag	UNP Q9M7Q7
A	-41	HIS	-	expression tag	UNP Q9M7Q7
A	-40	HIS	-	expression tag	UNP Q9M7Q7
A	-39	HIS	-	expression tag	UNP Q9M7Q7

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Chain	Residue	Modelled	Actual	Comment	Reference
A	-38	SER	-	expression tag	UNP Q9M7Q7
A	-37	SER	-	expression tag	UNP Q9M7Q7
A	-36	GLY	-	expression tag	UNP Q9M7Q7
A	-35	LEU	-	expression tag	UNP Q9M7Q7
A	-34	VAL	-	expression tag	UNP Q9M7Q7
A	-33	PRO	-	expression tag	UNP Q9M7Q7
A	-32	ARG	-	expression tag	UNP Q9M7Q7
A	-31	GLY	-	expression tag	UNP Q9M7Q7
A	-30	SER	-	expression tag	UNP Q9M7Q7
A	-29	HIS	-	expression tag	UNP Q9M7Q7
A	-28	MET	-	expression tag	UNP Q9M7Q7
A	-27	ALA	-	expression tag	UNP Q9M7Q7
A	-26	SER	-	expression tag	UNP Q9M7Q7
A	-25	MET	-	expression tag	UNP Q9M7Q7
A	-24	THR	-	expression tag	UNP Q9M7Q7
A	-23	GLY	-	expression tag	UNP Q9M7Q7
A	-22	GLY	-	expression tag	UNP Q9M7Q7
A	-21	GLN	-	expression tag	UNP Q9M7Q7
A	-20	GLN	-	expression tag	UNP Q9M7Q7
A	-19	MET	-	expression tag	UNP Q9M7Q7
A	-18	GLY	-	expression tag	UNP Q9M7Q7
A	-17	ARG	-	expression tag	UNP Q9M7Q7
A	-16	GLY	-	expression tag	UNP Q9M7Q7
A	-15	SER	-	expression tag	UNP Q9M7Q7
A	-14	MET	-	expression tag	UNP Q9M7Q7
A	-13	GLY	-	expression tag	UNP Q9M7Q7
A	-12	HIS	-	expression tag	UNP Q9M7Q7
A	-11	HIS	-	expression tag	UNP Q9M7Q7
A	-10	HIS	-	expression tag	UNP Q9M7Q7
A	-9	HIS	-	expression tag	UNP Q9M7Q7
A	-8	HIS	-	expression tag	UNP Q9M7Q7
A	-7	HIS	-	expression tag	UNP Q9M7Q7
A	-6	GLU	-	expression tag	UNP Q9M7Q7
A	-5	ASN	-	expression tag	UNP Q9M7Q7
A	-4	LEU	-	expression tag	UNP Q9M7Q7
A	-3	TYR	-	expression tag	UNP Q9M7Q7
A	-2	PHE	-	expression tag	UNP Q9M7Q7
A	-1	GLN	-	expression tag	UNP Q9M7Q7
A	0	GLY	-	expression tag	UNP Q9M7Q7
D	-48	MET	-	initiating methionine	UNP Q9M7Q7
D	-47	GLY	-	expression tag	UNP Q9M7Q7
D	-46	SER	-	expression tag	UNP Q9M7Q7

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Chain	Residue	Modelled	Actual	Comment	Reference
D	-45	SER	-	expression tag	UNP Q9M7Q7
D	-44	HIS	-	expression tag	UNP Q9M7Q7
D	-43	HIS	-	expression tag	UNP Q9M7Q7
D	-42	HIS	-	expression tag	UNP Q9M7Q7
D	-41	HIS	-	expression tag	UNP Q9M7Q7
D	-40	HIS	-	expression tag	UNP Q9M7Q7
D	-39	HIS	-	expression tag	UNP Q9M7Q7
D	-38	SER	-	expression tag	UNP Q9M7Q7
D	-37	SER	-	expression tag	UNP Q9M7Q7
D	-36	GLY	-	expression tag	UNP Q9M7Q7
D	-35	LEU	-	expression tag	UNP Q9M7Q7
D	-34	VAL	-	expression tag	UNP Q9M7Q7
D	-33	PRO	-	expression tag	UNP Q9M7Q7
D	-32	ARG	-	expression tag	UNP Q9M7Q7
D	-31	GLY	-	expression tag	UNP Q9M7Q7
D	-30	SER	-	expression tag	UNP Q9M7Q7
D	-29	HIS	-	expression tag	UNP Q9M7Q7
D	-28	MET	-	expression tag	UNP Q9M7Q7
D	-27	ALA	-	expression tag	UNP Q9M7Q7
D	-26	SER	-	expression tag	UNP Q9M7Q7
D	-25	MET	-	expression tag	UNP Q9M7Q7
D	-24	THR	-	expression tag	UNP Q9M7Q7
D	-23	GLY	-	expression tag	UNP Q9M7Q7
D	-22	GLY	-	expression tag	UNP Q9M7Q7
D	-21	GLN	-	expression tag	UNP Q9M7Q7
D	-20	GLN	-	expression tag	UNP Q9M7Q7
D	-19	MET	-	expression tag	UNP Q9M7Q7
D	-18	GLY	-	expression tag	UNP Q9M7Q7
D	-17	ARG	-	expression tag	UNP Q9M7Q7
D	-16	GLY	-	expression tag	UNP Q9M7Q7
D	-15	SER	-	expression tag	UNP Q9M7Q7
D	-14	MET	-	expression tag	UNP Q9M7Q7
D	-13	GLY	-	expression tag	UNP Q9M7Q7
D	-12	HIS	-	expression tag	UNP Q9M7Q7
D	-11	HIS	-	expression tag	UNP Q9M7Q7
D	-10	HIS	-	expression tag	UNP Q9M7Q7
D	-9	HIS	-	expression tag	UNP Q9M7Q7
D	-8	HIS	-	expression tag	UNP Q9M7Q7
D	-7	HIS	-	expression tag	UNP Q9M7Q7
D	-6	GLU	-	expression tag	UNP Q9M7Q7
D	-5	ASN	-	expression tag	UNP Q9M7Q7
D	-4	LEU	-	expression tag	UNP Q9M7Q7

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Chain	Residue	Modelled	Actual	Comment	Reference
D	-3	TYR	-	expression tag	UNP Q9M7Q7
D	-2	PHE	-	expression tag	UNP Q9M7Q7
D	-1	GLN	-	expression tag	UNP Q9M7Q7
D	0	GLY	-	expression tag	UNP Q9M7Q7
F	-48	MET	-	initiating methionine	UNP Q9M7Q7
F	-47	GLY	-	expression tag	UNP Q9M7Q7
F	-46	SER	-	expression tag	UNP Q9M7Q7
F	-45	SER	-	expression tag	UNP Q9M7Q7
F	-44	HIS	-	expression tag	UNP Q9M7Q7
F	-43	HIS	-	expression tag	UNP Q9M7Q7
F	-42	HIS	-	expression tag	UNP Q9M7Q7
F	-41	HIS	-	expression tag	UNP Q9M7Q7
F	-40	HIS	-	expression tag	UNP Q9M7Q7
F	-39	HIS	-	expression tag	UNP Q9M7Q7
F	-38	SER	-	expression tag	UNP Q9M7Q7
F	-37	SER	-	expression tag	UNP Q9M7Q7
F	-36	GLY	-	expression tag	UNP Q9M7Q7
F	-35	LEU	-	expression tag	UNP Q9M7Q7
F	-34	VAL	-	expression tag	UNP Q9M7Q7
F	-33	PRO	-	expression tag	UNP Q9M7Q7
F	-32	ARG	-	expression tag	UNP Q9M7Q7
F	-31	GLY	-	expression tag	UNP Q9M7Q7
F	-30	SER	-	expression tag	UNP Q9M7Q7
F	-29	HIS	-	expression tag	UNP Q9M7Q7
F	-28	MET	-	expression tag	UNP Q9M7Q7
F	-27	ALA	-	expression tag	UNP Q9M7Q7
F	-26	SER	-	expression tag	UNP Q9M7Q7
F	-25	MET	-	expression tag	UNP Q9M7Q7
F	-24	THR	-	expression tag	UNP Q9M7Q7
F	-23	GLY	-	expression tag	UNP Q9M7Q7
F	-22	GLY	-	expression tag	UNP Q9M7Q7
F	-21	GLN	-	expression tag	UNP Q9M7Q7
F	-20	GLN	-	expression tag	UNP Q9M7Q7
F	-19	MET	-	expression tag	UNP Q9M7Q7
F	-18	GLY	-	expression tag	UNP Q9M7Q7
F	-17	ARG	-	expression tag	UNP Q9M7Q7
F	-16	GLY	-	expression tag	UNP Q9M7Q7
F	-15	SER	-	expression tag	UNP Q9M7Q7
F	-14	MET	-	expression tag	UNP Q9M7Q7
F	-13	GLY	-	expression tag	UNP Q9M7Q7
F	-12	HIS	-	expression tag	UNP Q9M7Q7
F	-11	HIS	-	expression tag	UNP Q9M7Q7

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Chain	Residue	Modelled	Actual	Comment	Reference
F	-10	HIS	-	expression tag	UNP Q9M7Q7
F	-9	HIS	-	expression tag	UNP Q9M7Q7
F	-8	HIS	-	expression tag	UNP Q9M7Q7
F	-7	HIS	-	expression tag	UNP Q9M7Q7
F	-6	GLU	-	expression tag	UNP Q9M7Q7
F	-5	ASN	-	expression tag	UNP Q9M7Q7
F	-4	LEU	-	expression tag	UNP Q9M7Q7
F	-3	TYR	-	expression tag	UNP Q9M7Q7
F	-2	PHE	-	expression tag	UNP Q9M7Q7
F	-1	GLN	-	expression tag	UNP Q9M7Q7
F	0	GLY	-	expression tag	UNP Q9M7Q7
H	-48	MET	-	initiating methionine	UNP Q9M7Q7
H	-47	GLY	-	expression tag	UNP Q9M7Q7
H	-46	SER	-	expression tag	UNP Q9M7Q7
H	-45	SER	-	expression tag	UNP Q9M7Q7
H	-44	HIS	-	expression tag	UNP Q9M7Q7
H	-43	HIS	-	expression tag	UNP Q9M7Q7
H	-42	HIS	-	expression tag	UNP Q9M7Q7
H	-41	HIS	-	expression tag	UNP Q9M7Q7
H	-40	HIS	-	expression tag	UNP Q9M7Q7
H	-39	HIS	-	expression tag	UNP Q9M7Q7
H	-38	SER	-	expression tag	UNP Q9M7Q7
H	-37	SER	-	expression tag	UNP Q9M7Q7
H	-36	GLY	-	expression tag	UNP Q9M7Q7
H	-35	LEU	-	expression tag	UNP Q9M7Q7
H	-34	VAL	-	expression tag	UNP Q9M7Q7
H	-33	PRO	-	expression tag	UNP Q9M7Q7
H	-32	ARG	-	expression tag	UNP Q9M7Q7
H	-31	GLY	-	expression tag	UNP Q9M7Q7
H	-30	SER	-	expression tag	UNP Q9M7Q7
H	-29	HIS	-	expression tag	UNP Q9M7Q7
H	-28	MET	-	expression tag	UNP Q9M7Q7
H	-27	ALA	-	expression tag	UNP Q9M7Q7
H	-26	SER	-	expression tag	UNP Q9M7Q7
H	-25	MET	-	expression tag	UNP Q9M7Q7
H	-24	THR	-	expression tag	UNP Q9M7Q7
H	-23	GLY	-	expression tag	UNP Q9M7Q7
H	-22	GLY	-	expression tag	UNP Q9M7Q7
H	-21	GLN	-	expression tag	UNP Q9M7Q7
H	-20	GLN	-	expression tag	UNP Q9M7Q7
H	-19	MET	-	expression tag	UNP Q9M7Q7
H	-18	GLY	-	expression tag	UNP Q9M7Q7

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Chain	Residue	Modelled	Actual	Comment	Reference
H	-17	ARG	-	expression tag	UNP Q9M7Q7
H	-16	GLY	-	expression tag	UNP Q9M7Q7
H	-15	SER	-	expression tag	UNP Q9M7Q7
H	-14	MET	-	expression tag	UNP Q9M7Q7
H	-13	GLY	-	expression tag	UNP Q9M7Q7
H	-12	HIS	-	expression tag	UNP Q9M7Q7
H	-11	HIS	-	expression tag	UNP Q9M7Q7
H	-10	HIS	-	expression tag	UNP Q9M7Q7
H	-9	HIS	-	expression tag	UNP Q9M7Q7
H	-8	HIS	-	expression tag	UNP Q9M7Q7
H	-7	HIS	-	expression tag	UNP Q9M7Q7
H	-6	GLU	-	expression tag	UNP Q9M7Q7
H	-5	ASN	-	expression tag	UNP Q9M7Q7
H	-4	LEU	-	expression tag	UNP Q9M7Q7
H	-3	TYR	-	expression tag	UNP Q9M7Q7
H	-2	PHE	-	expression tag	UNP Q9M7Q7
H	-1	GLN	-	expression tag	UNP Q9M7Q7
H	0	GLY	-	expression tag	UNP Q9M7Q7
K	-48	MET	-	initiating methionine	UNP Q9M7Q7
K	-47	GLY	-	expression tag	UNP Q9M7Q7
K	-46	SER	-	expression tag	UNP Q9M7Q7
K	-45	SER	-	expression tag	UNP Q9M7Q7
K	-44	HIS	-	expression tag	UNP Q9M7Q7
K	-43	HIS	-	expression tag	UNP Q9M7Q7
K	-42	HIS	-	expression tag	UNP Q9M7Q7
K	-41	HIS	-	expression tag	UNP Q9M7Q7
K	-40	HIS	-	expression tag	UNP Q9M7Q7
K	-39	HIS	-	expression tag	UNP Q9M7Q7
K	-38	SER	-	expression tag	UNP Q9M7Q7
K	-37	SER	-	expression tag	UNP Q9M7Q7
K	-36	GLY	-	expression tag	UNP Q9M7Q7
K	-35	LEU	-	expression tag	UNP Q9M7Q7
K	-34	VAL	-	expression tag	UNP Q9M7Q7
K	-33	PRO	-	expression tag	UNP Q9M7Q7
K	-32	ARG	-	expression tag	UNP Q9M7Q7
K	-31	GLY	-	expression tag	UNP Q9M7Q7
K	-30	SER	-	expression tag	UNP Q9M7Q7
K	-29	HIS	-	expression tag	UNP Q9M7Q7
K	-28	MET	-	expression tag	UNP Q9M7Q7
K	-27	ALA	-	expression tag	UNP Q9M7Q7
K	-26	SER	-	expression tag	UNP Q9M7Q7
K	-25	MET	-	expression tag	UNP Q9M7Q7

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Chain	Residue	Modelled	Actual	Comment	Reference
K	-24	THR	-	expression tag	UNP Q9M7Q7
K	-23	GLY	-	expression tag	UNP Q9M7Q7
K	-22	GLY	-	expression tag	UNP Q9M7Q7
K	-21	GLN	-	expression tag	UNP Q9M7Q7
K	-20	GLN	-	expression tag	UNP Q9M7Q7
K	-19	MET	-	expression tag	UNP Q9M7Q7
K	-18	GLY	-	expression tag	UNP Q9M7Q7
K	-17	ARG	-	expression tag	UNP Q9M7Q7
K	-16	GLY	-	expression tag	UNP Q9M7Q7
K	-15	SER	-	expression tag	UNP Q9M7Q7
K	-14	MET	-	expression tag	UNP Q9M7Q7
K	-13	GLY	-	expression tag	UNP Q9M7Q7
K	-12	HIS	-	expression tag	UNP Q9M7Q7
K	-11	HIS	-	expression tag	UNP Q9M7Q7
K	-10	HIS	-	expression tag	UNP Q9M7Q7
K	-9	HIS	-	expression tag	UNP Q9M7Q7
K	-8	HIS	-	expression tag	UNP Q9M7Q7
K	-7	HIS	-	expression tag	UNP Q9M7Q7
K	-6	GLU	-	expression tag	UNP Q9M7Q7
K	-5	ASN	-	expression tag	UNP Q9M7Q7
K	-4	LEU	-	expression tag	UNP Q9M7Q7
K	-3	TYR	-	expression tag	UNP Q9M7Q7
K	-2	PHE	-	expression tag	UNP Q9M7Q7
K	-1	GLN	-	expression tag	UNP Q9M7Q7
K	0	GLY	-	expression tag	UNP Q9M7Q7

- Molecule 2 is a protein called Uncharacterized protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	I	14	121	82	20	19	0	0	0
2	B	13	106	74	15	17	0	0	0
2	E	13	106	72	17	17	0	0	0
2	G	12	105	72	17	16	0	0	0
2	J	14	111	77	16	18	0	0	0
2	L	13	110	75	18	17	0	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
I	77	TYR	-	insertion	UNP K7MRE7
B	77	TYR	-	insertion	UNP K7MRE7
E	77	TYR	-	insertion	UNP K7MRE7
G	77	TYR	-	insertion	UNP K7MRE7
J	77	TYR	-	insertion	UNP K7MRE7
L	77	TYR	-	insertion	UNP K7MRE7

- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	C	68	Total O 68 68	0	0
3	I	8	Total O 8 8	0	0
3	A	63	Total O 63 63	0	0
3	B	10	Total O 10 10	0	0
3	D	80	Total O 80 80	0	0
3	E	2	Total O 2 2	0	0
3	F	91	Total O 91 91	0	0
3	G	3	Total O 3 3	0	0
3	H	38	Total O 38 38	0	0
3	J	1	Total O 1 1	0	0
3	K	37	Total O 37 37	0	0
3	L	1	Total O 1 1	0	0

MolProbity and EDS failed to run properly - this section is therefore empty.

3 Data and refinement statistics i

EDS failed to run properly - this section is therefore incomplete.

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	72.90Å 90.55Å 90.51Å 60.05° 73.46° 73.59°	Depositor
Resolution (Å)	29.65 – 2.06	Depositor
% Data completeness (in resolution range)	94.3 (29.65-2.06)	Depositor
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.90 (at 2.06Å)	Xtrriage
Refinement program	PHENIX (1.13_2998)	Depositor
R, R_{free}	0.197 , 0.234	Depositor
Wilson B-factor (Å ²)	39.8	Xtrriage
Anisotropy	0.064	Xtrriage
L-test for twinning ²	$\langle L \rangle = 0.53$, $\langle L^2 \rangle = 0.36$	Xtrriage
Estimated twinning fraction	0.477 for -h,-l,-k	Xtrriage
Total number of atoms	12307	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.44% 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.

4 Model quality [i](#)

4.1 Standard geometry [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.2 Too-close contacts [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3 Torsion angles [i](#)

4.3.1 Protein backbone [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.2 Protein sidechains [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.3 RNA [i](#)

MolProbity failed to run properly - this section is therefore empty.

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

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

4.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

4.6 Ligand geometry [i](#)

There are no ligands in this entry.

4.7 Other polymers [i](#)

There are no such residues in this entry.

4.8 Polymer linkage issues

There are no chain breaks in this entry.

5 Fit of model and data

5.1 Protein, DNA and RNA chains

EDS failed to run properly - this section is therefore empty.

5.2 Non-standard residues in protein, DNA, RNA chains

EDS failed to run properly - this section is therefore empty.

5.3 Carbohydrates

EDS failed to run properly - this section is therefore empty.

5.4 Ligands

EDS failed to run properly - this section is therefore empty.

5.5 Other polymers

EDS failed to run properly - this section is therefore empty.