



Full wwPDB EM Validation Report ⓘ

Mar 30, 2026 – 09:11 PM UTC

PDB ID : 6QZ0 / pdb_00006qz0
EMDB ID : EMD-4681
Title : The cryo-EM structure of the head of the genome emptied bacteriophage phi29
Authors : Xu, J.; Wang, D.; Gui, M.; Xiang, Y.
Deposited on : 2019-03-10
Resolution : 3.20 Å(reported)

This is a Full wwPDB EM 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/EMValidationReportHelp>

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:

EMDB validation analysis : 0.0.1.dev132
MolProbity : **FAILED**
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : **NOT EXECUTED**
MapQ : **FAILED**
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.20 Å.

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

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

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 1161565 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1A	433	Total	C	N	O	S	0	0
			3397	2146	578	665	8		
1	1B	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1C	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1D	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1E	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	1F	438	Total	C	N	O	S	0	0
			3449	2182	584	675	8		
1	2A	438	Total	C	N	O	S	0	0
			3430	2167	583	672	8		
1	2B	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2C	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2D	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2E	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3A	435	Total	C	N	O	S	0	0
			3422	2167	579	668	8		
1	3B	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	3C	445	Total	C	N	O	S	0	0
			3483	2201	592	682	8		
1	3D	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3E	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3F	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	4A	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4B	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4C	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4D	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4E	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	4F	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	5A	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5B	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5C	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5D	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5E	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	5F	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6A	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6B	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6C	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	6D	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	6E	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6F	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7A	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7B	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7C	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	7D	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7E	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8A	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8B	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8C	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8D	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8E	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8F	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	9A	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1G	433	Total	C	N	O	S	0	0
			3397	2146	578	665	8		
1	1H	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1I	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1J	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1K	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	1L	438	Total	C	N	O	S	0	0
			3449	2182	584	675	8		
1	2F	438	Total	C	N	O	S	0	0
			3430	2167	583	672	8		
1	2G	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2H	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2I	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2J	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3G	435	Total	C	N	O	S	0	0
			3422	2167	579	668	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	3H	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	3I	445	Total	C	N	O	S	0	0
			3483	2201	592	682	8		
1	3J	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3K	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3L	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	4G	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4H	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4I	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4J	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4K	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	4L	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	5G	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5H	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5I	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5J	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5K	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	5L	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6G	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6H	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6I	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	6J	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	6K	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6L	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7F	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7G	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7H	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7I	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7J	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8G	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8H	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8I	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8J	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8K	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8L	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	9B	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1M	433	Total	C	N	O	S	0	0
			3397	2146	578	665	8		
1	1N	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1O	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1P	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1Q	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	1R	438	Total	C	N	O	S	0	0
			3449	2182	584	675	8		
1	2K	438	Total	C	N	O	S	0	0
			3430	2167	583	672	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	2L	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2M	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2N	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2O	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3M	435	Total	C	N	O	S	0	0
			3422	2167	579	668	8		
1	3N	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	3O	445	Total	C	N	O	S	0	0
			3483	2201	592	682	8		
1	3P	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3Q	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3R	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	4M	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4N	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4O	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4P	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4Q	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	4R	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	5M	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5N	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5O	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5P	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5Q	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	5R	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6M	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6N	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6O	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	6P	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	6Q	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6R	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7K	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7L	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7M	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7N	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7O	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8M	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8N	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8O	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8P	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8Q	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8R	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	9C	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1S	433	Total	C	N	O	S	0	0
			3397	2146	578	665	8		
1	1T	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	1U	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1V	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1W	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	1X	438	Total	C	N	O	S	0	0
			3449	2182	584	675	8		
1	2P	438	Total	C	N	O	S	0	0
			3430	2167	583	672	8		
1	2Q	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2R	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2S	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2T	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3S	435	Total	C	N	O	S	0	0
			3422	2167	579	668	8		
1	3T	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	3U	445	Total	C	N	O	S	0	0
			3483	2201	592	682	8		
1	3V	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3W	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3X	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	4S	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4T	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4U	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4V	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4W	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	4X	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	5S	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5T	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5U	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5V	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5W	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	5X	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6S	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6T	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6U	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	6V	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	6W	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6X	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7P	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7Q	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7R	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7S	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7T	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8S	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8T	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8U	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8V	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8W	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8X	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	9D	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1Y	433	Total	C	N	O	S	0	0
			3397	2146	578	665	8		
1	1Z	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1a	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1b	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	1c	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	1d	438	Total	C	N	O	S	0	0
			3449	2182	584	675	8		
1	2U	438	Total	C	N	O	S	0	0
			3430	2167	583	672	8		
1	2V	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2W	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2X	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	2Y	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3Y	435	Total	C	N	O	S	0	0
			3422	2167	579	668	8		
1	3Z	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	3a	445	Total	C	N	O	S	0	0
			3483	2201	592	682	8		
1	3b	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3c	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	3d	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	4Y	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	4Z	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4a	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4b	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	4c	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	4d	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	5Y	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5Z	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5a	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5b	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	5c	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	5d	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6Y	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6Z	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6a	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	6b	435	Total	C	N	O	S	0	0
			3426	2169	579	670	8		
1	6c	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	6d	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7U	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7V	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7W	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	7X	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	7Y	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8Y	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8Z	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8a	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8b	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8c	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	8d	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		
1	9E	445	Total	C	N	O	S	0	0
			3487	2203	592	684	8		

- Molecule 2 is a protein called Capsid fiber protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1e	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	1f	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	1g	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	1h	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	2Z	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2a	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2b	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2c	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2d	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	3e	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	3f	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	3g	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	3h	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	4e	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	4f	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	5e	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	5f	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	6e	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	6f	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	6g	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	6h	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7Z	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7a	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7b	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7c	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7d	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	8e	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	8f	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	8g	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	8h	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	8i	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	8j	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	9F	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	1i	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	1j	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	1k	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	1l	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	2e	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2f	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2g	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2h	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2i	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	3i	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	3j	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	3k	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	3l	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	4g	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	4h	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	5g	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	5h	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	6i	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	6j	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	6k	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	6l	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7e	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7f	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7g	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7h	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7i	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	8k	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	8l	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	8m	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	8n	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	8o	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	8p	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	9G	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	1m	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	1n	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	1o	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	1p	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	2j	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2k	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2l	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2m	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	2n	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	3m	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	3n	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	3o	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	3p	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	4i	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	4j	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	5i	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	5j	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	6m	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	6n	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	6o	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	6p	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7j	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7k	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7l	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7m	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7n	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	8q	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	8r	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	8s	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	8t	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	8u	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	8v	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	9H	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	1q	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	1r	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	1s	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	1t	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	2o	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	2p	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	2q	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	2r	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	2s	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	3q	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	3r	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	3s	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	3t	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	4k	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	4l	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	5k	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	5l	279	Total 2098	C 1312	N 348	O 435	S 3	8	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	6q	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	6r	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	6s	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	6t	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	7o	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	7p	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	7q	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	7r	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	7s	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	8w	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	8x	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	8y	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	8z	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	9K	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	9L	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	9I	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	1u	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	1v	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	1w	280	Total 2106	C 1317	N 349	O 436	S 4	8	0
2	1x	279	Total 2098	C 1312	N 348	O 435	S 3	8	0
2	2t	280	Total 2106	C 1317	N 349	O 436	S 4	8	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	2u	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2v	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2w	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	2x	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	3u	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	3v	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	3w	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	3x	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	4m	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	4n	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	5m	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	5n	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	6u	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	6v	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	6w	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	6x	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7t	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7u	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7v	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7w	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	7x	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	9M	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	9N	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	9O	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	9P	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	9Q	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		
2	9R	279	Total	C	N	O	S	8	0
			2098	1312	348	435	3		
2	9J	280	Total	C	N	O	S	8	0
			2106	1317	349	436	4		

There are 330 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
1e	123	GLU	ASP	conflict	UNP B3VMP4
1e	281	LEU	-	insertion	UNP B3VMP4
1f	123	GLU	ASP	conflict	UNP B3VMP4
1f	281	LEU	-	insertion	UNP B3VMP4
1g	123	GLU	ASP	conflict	UNP B3VMP4
1g	281	LEU	-	insertion	UNP B3VMP4
1h	123	GLU	ASP	conflict	UNP B3VMP4
1h	281	LEU	-	insertion	UNP B3VMP4
2Z	123	GLU	ASP	conflict	UNP B3VMP4
2Z	281	LEU	-	insertion	UNP B3VMP4
2a	123	GLU	ASP	conflict	UNP B3VMP4
2a	281	LEU	-	insertion	UNP B3VMP4
2b	123	GLU	ASP	conflict	UNP B3VMP4
2b	281	LEU	-	insertion	UNP B3VMP4
2c	123	GLU	ASP	conflict	UNP B3VMP4
2c	281	LEU	-	insertion	UNP B3VMP4
2d	123	GLU	ASP	conflict	UNP B3VMP4
2d	281	LEU	-	insertion	UNP B3VMP4
3e	123	GLU	ASP	conflict	UNP B3VMP4
3e	281	LEU	-	insertion	UNP B3VMP4
3f	123	GLU	ASP	conflict	UNP B3VMP4
3f	281	LEU	-	insertion	UNP B3VMP4
3g	123	GLU	ASP	conflict	UNP B3VMP4
3g	281	LEU	-	insertion	UNP B3VMP4
3h	123	GLU	ASP	conflict	UNP B3VMP4

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Chain	Residue	Modelled	Actual	Comment	Reference
3h	281	LEU	-	insertion	UNP B3VMP4
4e	123	GLU	ASP	conflict	UNP B3VMP4
4e	281	LEU	-	insertion	UNP B3VMP4
4f	123	GLU	ASP	conflict	UNP B3VMP4
4f	281	LEU	-	insertion	UNP B3VMP4
5e	123	GLU	ASP	conflict	UNP B3VMP4
5e	281	LEU	-	insertion	UNP B3VMP4
5f	123	GLU	ASP	conflict	UNP B3VMP4
5f	281	LEU	-	insertion	UNP B3VMP4
6e	123	GLU	ASP	conflict	UNP B3VMP4
6e	281	LEU	-	insertion	UNP B3VMP4
6f	123	GLU	ASP	conflict	UNP B3VMP4
6f	281	LEU	-	insertion	UNP B3VMP4
6g	123	GLU	ASP	conflict	UNP B3VMP4
6g	281	LEU	-	insertion	UNP B3VMP4
6h	123	GLU	ASP	conflict	UNP B3VMP4
6h	281	LEU	-	insertion	UNP B3VMP4
7Z	123	GLU	ASP	conflict	UNP B3VMP4
7Z	281	LEU	-	insertion	UNP B3VMP4
7a	123	GLU	ASP	conflict	UNP B3VMP4
7a	281	LEU	-	insertion	UNP B3VMP4
7b	123	GLU	ASP	conflict	UNP B3VMP4
7b	281	LEU	-	insertion	UNP B3VMP4
7c	123	GLU	ASP	conflict	UNP B3VMP4
7c	281	LEU	-	insertion	UNP B3VMP4
7d	123	GLU	ASP	conflict	UNP B3VMP4
7d	281	LEU	-	insertion	UNP B3VMP4
8e	123	GLU	ASP	conflict	UNP B3VMP4
8e	281	LEU	-	insertion	UNP B3VMP4
8f	123	GLU	ASP	conflict	UNP B3VMP4
8f	281	LEU	-	insertion	UNP B3VMP4
8g	123	GLU	ASP	conflict	UNP B3VMP4
8g	281	LEU	-	insertion	UNP B3VMP4
8h	123	GLU	ASP	conflict	UNP B3VMP4
8h	281	LEU	-	insertion	UNP B3VMP4
8i	123	GLU	ASP	conflict	UNP B3VMP4
8i	281	LEU	-	insertion	UNP B3VMP4
8j	123	GLU	ASP	conflict	UNP B3VMP4
8j	281	LEU	-	insertion	UNP B3VMP4
9F	123	GLU	ASP	conflict	UNP B3VMP4
9F	281	LEU	-	insertion	UNP B3VMP4
1i	123	GLU	ASP	conflict	UNP B3VMP4

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Chain	Residue	Modelled	Actual	Comment	Reference
1i	281	LEU	-	insertion	UNP B3VMP4
1j	123	GLU	ASP	conflict	UNP B3VMP4
1j	281	LEU	-	insertion	UNP B3VMP4
1k	123	GLU	ASP	conflict	UNP B3VMP4
1k	281	LEU	-	insertion	UNP B3VMP4
1l	123	GLU	ASP	conflict	UNP B3VMP4
1l	281	LEU	-	insertion	UNP B3VMP4
2e	123	GLU	ASP	conflict	UNP B3VMP4
2e	281	LEU	-	insertion	UNP B3VMP4
2f	123	GLU	ASP	conflict	UNP B3VMP4
2f	281	LEU	-	insertion	UNP B3VMP4
2g	123	GLU	ASP	conflict	UNP B3VMP4
2g	281	LEU	-	insertion	UNP B3VMP4
2h	123	GLU	ASP	conflict	UNP B3VMP4
2h	281	LEU	-	insertion	UNP B3VMP4
2i	123	GLU	ASP	conflict	UNP B3VMP4
2i	281	LEU	-	insertion	UNP B3VMP4
3i	123	GLU	ASP	conflict	UNP B3VMP4
3i	281	LEU	-	insertion	UNP B3VMP4
3j	123	GLU	ASP	conflict	UNP B3VMP4
3j	281	LEU	-	insertion	UNP B3VMP4
3k	123	GLU	ASP	conflict	UNP B3VMP4
3k	281	LEU	-	insertion	UNP B3VMP4
3l	123	GLU	ASP	conflict	UNP B3VMP4
3l	281	LEU	-	insertion	UNP B3VMP4
4g	123	GLU	ASP	conflict	UNP B3VMP4
4g	281	LEU	-	insertion	UNP B3VMP4
4h	123	GLU	ASP	conflict	UNP B3VMP4
4h	281	LEU	-	insertion	UNP B3VMP4
5g	123	GLU	ASP	conflict	UNP B3VMP4
5g	281	LEU	-	insertion	UNP B3VMP4
5h	123	GLU	ASP	conflict	UNP B3VMP4
5h	281	LEU	-	insertion	UNP B3VMP4
6i	123	GLU	ASP	conflict	UNP B3VMP4
6i	281	LEU	-	insertion	UNP B3VMP4
6j	123	GLU	ASP	conflict	UNP B3VMP4
6j	281	LEU	-	insertion	UNP B3VMP4
6k	123	GLU	ASP	conflict	UNP B3VMP4
6k	281	LEU	-	insertion	UNP B3VMP4
6l	123	GLU	ASP	conflict	UNP B3VMP4
6l	281	LEU	-	insertion	UNP B3VMP4
7e	123	GLU	ASP	conflict	UNP B3VMP4

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Chain	Residue	Modelled	Actual	Comment	Reference
7e	281	LEU	-	insertion	UNP B3VMP4
7f	123	GLU	ASP	conflict	UNP B3VMP4
7f	281	LEU	-	insertion	UNP B3VMP4
7g	123	GLU	ASP	conflict	UNP B3VMP4
7g	281	LEU	-	insertion	UNP B3VMP4
7h	123	GLU	ASP	conflict	UNP B3VMP4
7h	281	LEU	-	insertion	UNP B3VMP4
7i	123	GLU	ASP	conflict	UNP B3VMP4
7i	281	LEU	-	insertion	UNP B3VMP4
8k	123	GLU	ASP	conflict	UNP B3VMP4
8k	281	LEU	-	insertion	UNP B3VMP4
8l	123	GLU	ASP	conflict	UNP B3VMP4
8l	281	LEU	-	insertion	UNP B3VMP4
8m	123	GLU	ASP	conflict	UNP B3VMP4
8m	281	LEU	-	insertion	UNP B3VMP4
8n	123	GLU	ASP	conflict	UNP B3VMP4
8n	281	LEU	-	insertion	UNP B3VMP4
8o	123	GLU	ASP	conflict	UNP B3VMP4
8o	281	LEU	-	insertion	UNP B3VMP4
8p	123	GLU	ASP	conflict	UNP B3VMP4
8p	281	LEU	-	insertion	UNP B3VMP4
9G	123	GLU	ASP	conflict	UNP B3VMP4
9G	281	LEU	-	insertion	UNP B3VMP4
1m	123	GLU	ASP	conflict	UNP B3VMP4
1m	281	LEU	-	insertion	UNP B3VMP4
1n	123	GLU	ASP	conflict	UNP B3VMP4
1n	281	LEU	-	insertion	UNP B3VMP4
1o	123	GLU	ASP	conflict	UNP B3VMP4
1o	281	LEU	-	insertion	UNP B3VMP4
1p	123	GLU	ASP	conflict	UNP B3VMP4
1p	281	LEU	-	insertion	UNP B3VMP4
2j	123	GLU	ASP	conflict	UNP B3VMP4
2j	281	LEU	-	insertion	UNP B3VMP4
2k	123	GLU	ASP	conflict	UNP B3VMP4
2k	281	LEU	-	insertion	UNP B3VMP4
2l	123	GLU	ASP	conflict	UNP B3VMP4
2l	281	LEU	-	insertion	UNP B3VMP4
2m	123	GLU	ASP	conflict	UNP B3VMP4
2m	281	LEU	-	insertion	UNP B3VMP4
2n	123	GLU	ASP	conflict	UNP B3VMP4
2n	281	LEU	-	insertion	UNP B3VMP4
3m	123	GLU	ASP	conflict	UNP B3VMP4

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Chain	Residue	Modelled	Actual	Comment	Reference
3m	281	LEU	-	insertion	UNP B3VMP4
3n	123	GLU	ASP	conflict	UNP B3VMP4
3n	281	LEU	-	insertion	UNP B3VMP4
3o	123	GLU	ASP	conflict	UNP B3VMP4
3o	281	LEU	-	insertion	UNP B3VMP4
3p	123	GLU	ASP	conflict	UNP B3VMP4
3p	281	LEU	-	insertion	UNP B3VMP4
4i	123	GLU	ASP	conflict	UNP B3VMP4
4i	281	LEU	-	insertion	UNP B3VMP4
4j	123	GLU	ASP	conflict	UNP B3VMP4
4j	281	LEU	-	insertion	UNP B3VMP4
5i	123	GLU	ASP	conflict	UNP B3VMP4
5i	281	LEU	-	insertion	UNP B3VMP4
5j	123	GLU	ASP	conflict	UNP B3VMP4
5j	281	LEU	-	insertion	UNP B3VMP4
6m	123	GLU	ASP	conflict	UNP B3VMP4
6m	281	LEU	-	insertion	UNP B3VMP4
6n	123	GLU	ASP	conflict	UNP B3VMP4
6n	281	LEU	-	insertion	UNP B3VMP4
6o	123	GLU	ASP	conflict	UNP B3VMP4
6o	281	LEU	-	insertion	UNP B3VMP4
6p	123	GLU	ASP	conflict	UNP B3VMP4
6p	281	LEU	-	insertion	UNP B3VMP4
7j	123	GLU	ASP	conflict	UNP B3VMP4
7j	281	LEU	-	insertion	UNP B3VMP4
7k	123	GLU	ASP	conflict	UNP B3VMP4
7k	281	LEU	-	insertion	UNP B3VMP4
7l	123	GLU	ASP	conflict	UNP B3VMP4
7l	281	LEU	-	insertion	UNP B3VMP4
7m	123	GLU	ASP	conflict	UNP B3VMP4
7m	281	LEU	-	insertion	UNP B3VMP4
7n	123	GLU	ASP	conflict	UNP B3VMP4
7n	281	LEU	-	insertion	UNP B3VMP4
8q	123	GLU	ASP	conflict	UNP B3VMP4
8q	281	LEU	-	insertion	UNP B3VMP4
8r	123	GLU	ASP	conflict	UNP B3VMP4
8r	281	LEU	-	insertion	UNP B3VMP4
8s	123	GLU	ASP	conflict	UNP B3VMP4
8s	281	LEU	-	insertion	UNP B3VMP4
8t	123	GLU	ASP	conflict	UNP B3VMP4
8t	281	LEU	-	insertion	UNP B3VMP4
8u	123	GLU	ASP	conflict	UNP B3VMP4

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Chain	Residue	Modelled	Actual	Comment	Reference
8u	281	LEU	-	insertion	UNP B3VMP4
8v	123	GLU	ASP	conflict	UNP B3VMP4
8v	281	LEU	-	insertion	UNP B3VMP4
9H	123	GLU	ASP	conflict	UNP B3VMP4
9H	281	LEU	-	insertion	UNP B3VMP4
1q	123	GLU	ASP	conflict	UNP B3VMP4
1q	281	LEU	-	insertion	UNP B3VMP4
1r	123	GLU	ASP	conflict	UNP B3VMP4
1r	281	LEU	-	insertion	UNP B3VMP4
1s	123	GLU	ASP	conflict	UNP B3VMP4
1s	281	LEU	-	insertion	UNP B3VMP4
1t	123	GLU	ASP	conflict	UNP B3VMP4
1t	281	LEU	-	insertion	UNP B3VMP4
2o	123	GLU	ASP	conflict	UNP B3VMP4
2o	281	LEU	-	insertion	UNP B3VMP4
2p	123	GLU	ASP	conflict	UNP B3VMP4
2p	281	LEU	-	insertion	UNP B3VMP4
2q	123	GLU	ASP	conflict	UNP B3VMP4
2q	281	LEU	-	insertion	UNP B3VMP4
2r	123	GLU	ASP	conflict	UNP B3VMP4
2r	281	LEU	-	insertion	UNP B3VMP4
2s	123	GLU	ASP	conflict	UNP B3VMP4
2s	281	LEU	-	insertion	UNP B3VMP4
3q	123	GLU	ASP	conflict	UNP B3VMP4
3q	281	LEU	-	insertion	UNP B3VMP4
3r	123	GLU	ASP	conflict	UNP B3VMP4
3r	281	LEU	-	insertion	UNP B3VMP4
3s	123	GLU	ASP	conflict	UNP B3VMP4
3s	281	LEU	-	insertion	UNP B3VMP4
3t	123	GLU	ASP	conflict	UNP B3VMP4
3t	281	LEU	-	insertion	UNP B3VMP4
4k	123	GLU	ASP	conflict	UNP B3VMP4
4k	281	LEU	-	insertion	UNP B3VMP4
4l	123	GLU	ASP	conflict	UNP B3VMP4
4l	281	LEU	-	insertion	UNP B3VMP4
5k	123	GLU	ASP	conflict	UNP B3VMP4
5k	281	LEU	-	insertion	UNP B3VMP4
5l	123	GLU	ASP	conflict	UNP B3VMP4
5l	281	LEU	-	insertion	UNP B3VMP4
6q	123	GLU	ASP	conflict	UNP B3VMP4
6q	281	LEU	-	insertion	UNP B3VMP4
6r	123	GLU	ASP	conflict	UNP B3VMP4

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Chain	Residue	Modelled	Actual	Comment	Reference
6r	281	LEU	-	insertion	UNP B3VMP4
6s	123	GLU	ASP	conflict	UNP B3VMP4
6s	281	LEU	-	insertion	UNP B3VMP4
6t	123	GLU	ASP	conflict	UNP B3VMP4
6t	281	LEU	-	insertion	UNP B3VMP4
7o	123	GLU	ASP	conflict	UNP B3VMP4
7o	281	LEU	-	insertion	UNP B3VMP4
7p	123	GLU	ASP	conflict	UNP B3VMP4
7p	281	LEU	-	insertion	UNP B3VMP4
7q	123	GLU	ASP	conflict	UNP B3VMP4
7q	281	LEU	-	insertion	UNP B3VMP4
7r	123	GLU	ASP	conflict	UNP B3VMP4
7r	281	LEU	-	insertion	UNP B3VMP4
7s	123	GLU	ASP	conflict	UNP B3VMP4
7s	281	LEU	-	insertion	UNP B3VMP4
8w	123	GLU	ASP	conflict	UNP B3VMP4
8w	281	LEU	-	insertion	UNP B3VMP4
8x	123	GLU	ASP	conflict	UNP B3VMP4
8x	281	LEU	-	insertion	UNP B3VMP4
8y	123	GLU	ASP	conflict	UNP B3VMP4
8y	281	LEU	-	insertion	UNP B3VMP4
8z	123	GLU	ASP	conflict	UNP B3VMP4
8z	281	LEU	-	insertion	UNP B3VMP4
9K	123	GLU	ASP	conflict	UNP B3VMP4
9K	281	LEU	-	insertion	UNP B3VMP4
9L	123	GLU	ASP	conflict	UNP B3VMP4
9L	281	LEU	-	insertion	UNP B3VMP4
9I	123	GLU	ASP	conflict	UNP B3VMP4
9I	281	LEU	-	insertion	UNP B3VMP4
1u	123	GLU	ASP	conflict	UNP B3VMP4
1u	281	LEU	-	insertion	UNP B3VMP4
1v	123	GLU	ASP	conflict	UNP B3VMP4
1v	281	LEU	-	insertion	UNP B3VMP4
1w	123	GLU	ASP	conflict	UNP B3VMP4
1w	281	LEU	-	insertion	UNP B3VMP4
1x	123	GLU	ASP	conflict	UNP B3VMP4
1x	281	LEU	-	insertion	UNP B3VMP4
2t	123	GLU	ASP	conflict	UNP B3VMP4
2t	281	LEU	-	insertion	UNP B3VMP4
2u	123	GLU	ASP	conflict	UNP B3VMP4
2u	281	LEU	-	insertion	UNP B3VMP4
2v	123	GLU	ASP	conflict	UNP B3VMP4

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Chain	Residue	Modelled	Actual	Comment	Reference
2v	281	LEU	-	insertion	UNP B3VMP4
2w	123	GLU	ASP	conflict	UNP B3VMP4
2w	281	LEU	-	insertion	UNP B3VMP4
2x	123	GLU	ASP	conflict	UNP B3VMP4
2x	281	LEU	-	insertion	UNP B3VMP4
3u	123	GLU	ASP	conflict	UNP B3VMP4
3u	281	LEU	-	insertion	UNP B3VMP4
3v	123	GLU	ASP	conflict	UNP B3VMP4
3v	281	LEU	-	insertion	UNP B3VMP4
3w	123	GLU	ASP	conflict	UNP B3VMP4
3w	281	LEU	-	insertion	UNP B3VMP4
3x	123	GLU	ASP	conflict	UNP B3VMP4
3x	281	LEU	-	insertion	UNP B3VMP4
4m	123	GLU	ASP	conflict	UNP B3VMP4
4m	281	LEU	-	insertion	UNP B3VMP4
4n	123	GLU	ASP	conflict	UNP B3VMP4
4n	281	LEU	-	insertion	UNP B3VMP4
5m	123	GLU	ASP	conflict	UNP B3VMP4
5m	281	LEU	-	insertion	UNP B3VMP4
5n	123	GLU	ASP	conflict	UNP B3VMP4
5n	281	LEU	-	insertion	UNP B3VMP4
6u	123	GLU	ASP	conflict	UNP B3VMP4
6u	281	LEU	-	insertion	UNP B3VMP4
6v	123	GLU	ASP	conflict	UNP B3VMP4
6v	281	LEU	-	insertion	UNP B3VMP4
6w	123	GLU	ASP	conflict	UNP B3VMP4
6w	281	LEU	-	insertion	UNP B3VMP4
6x	123	GLU	ASP	conflict	UNP B3VMP4
6x	281	LEU	-	insertion	UNP B3VMP4
7t	123	GLU	ASP	conflict	UNP B3VMP4
7t	281	LEU	-	insertion	UNP B3VMP4
7u	123	GLU	ASP	conflict	UNP B3VMP4
7u	281	LEU	-	insertion	UNP B3VMP4
7v	123	GLU	ASP	conflict	UNP B3VMP4
7v	281	LEU	-	insertion	UNP B3VMP4
7w	123	GLU	ASP	conflict	UNP B3VMP4
7w	281	LEU	-	insertion	UNP B3VMP4
7x	123	GLU	ASP	conflict	UNP B3VMP4
7x	281	LEU	-	insertion	UNP B3VMP4
9M	123	GLU	ASP	conflict	UNP B3VMP4
9M	281	LEU	-	insertion	UNP B3VMP4
9N	123	GLU	ASP	conflict	UNP B3VMP4

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Chain	Residue	Modelled	Actual	Comment	Reference
9N	281	LEU	-	insertion	UNP B3VMP4
9O	123	GLU	ASP	conflict	UNP B3VMP4
9O	281	LEU	-	insertion	UNP B3VMP4
9P	123	GLU	ASP	conflict	UNP B3VMP4
9P	281	LEU	-	insertion	UNP B3VMP4
9Q	123	GLU	ASP	conflict	UNP B3VMP4
9Q	281	LEU	-	insertion	UNP B3VMP4
9R	123	GLU	ASP	conflict	UNP B3VMP4
9R	281	LEU	-	insertion	UNP B3VMP4
9J	123	GLU	ASP	conflict	UNP B3VMP4
9J	281	LEU	-	insertion	UNP B3VMP4

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

3 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	44059	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	40	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor

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 oligosaccharides 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 Map visualisation

This section contains visualisations of the EMDB entry EMD-4681. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

5.1 Orthogonal projections

This section was not generated.

5.2 Central slices

This section was not generated.

5.3 Largest variance slices

This section was not generated.

5.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

5.5 Orthogonal surface views

This section was not generated.

5.6 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

6 Map analysis ⓘ

This section contains the results of statistical analysis of the map.

6.1 Map-value distribution ⓘ

This section was not generated.

6.2 Volume estimate versus contour level ⓘ

This section was not generated.

6.3 Rotationally averaged power spectrum ⓘ

This section was not generated. The rotationally averaged power spectrum had issues being displayed.

7 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.

8 Map-model fit

This section was not generated.