



wwPDB EM Validation Summary Report ⓘ

Aug 21, 2026 – 12:04 AM EDT

PDB ID : 36ZA / pdb_000036za
EMDB ID : EMD-76130
Title : Jumbo Bacteriophage Goslar
Authors : Basu, D.; Gu, Y.; Corbett, K.
Deposited on : 2026-07-07
Resolution : 16.00 Å(reported)

This is a wwPDB EM Validation Summary 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.dev133
MolProbity	:	FAILED
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	NOT EXECUTED
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

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 16.00 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 29 unique types of molecules in this entry. The entry contains 11167649 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 PVC Protein gp42.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	3	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	AG	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	AN	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	AU	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	Ab	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	Ai	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	IA	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	Ij	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	JI	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	Jr	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	KQ	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	Kz	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	L8	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	LY	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	Mg	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	NF	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	No	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	ON	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	Ow	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	P5	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	PV	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	Qd	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	RC	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	Rl	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	SK	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	St	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	T2	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	TS	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	U	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	U0	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	Ua	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	Vi	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	WH	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	Wq	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	XP	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	Xy	206	Total 1629	C 1043	N 286	O 295	S 5	0	0
1	Y	206	Total 1629	C 1043	N 286	O 295	S 5	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Y7	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	YX	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	Zf	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	aE	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	an	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	bM	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	bv	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	dc	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	eB	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	f	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	fJ	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	fs	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	g1	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	gR	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	k	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	p	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		
1	v	206	Total	C	N	O	S	0	0
			1629	1043	286	295	5		

- Molecule 2 is a protein called Inner-peripheral baseplate spokes gp032.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	1	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	2	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	8	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	9	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	AE	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	AF	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	AL	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	AM	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	AS	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	AT	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	AZ	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	Aa	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	Ag	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	Ah	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	H0	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	H9	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	Ih	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	Ii	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	JG	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	JH	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	Jp	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	Jq	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	KO	124	Total 971	C 624	N 166	O 176	S 5	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	KP	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	Kx	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	Ky	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	L6	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	L7	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	LW	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	LX	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	Me	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	Mf	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	ND	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	NE	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	Nm	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	Nn	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	OL	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	OM	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	Ou	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	Ov	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	P3	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	P4	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	PT	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	PU	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Qb	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	Qc	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	RA	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	RB	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	Rj	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	Rk	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	S	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	SI	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	SJ	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	Sr	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	Ss	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	T	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	T1	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	TQ	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	TR	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	Tz	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	U8	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	U9	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	UY	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	UZ	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	Vg	124	Total 971	C 624	N 166	O 176	S 5	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	Vh	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	W	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	WF	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	WG	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	Wo	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	Wp	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	X	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	XN	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	XO	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	Xw	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	Xx	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	Y5	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	Y6	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	YV	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	YW	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	Zd	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	Ze	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	aC	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	aD	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	al	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	am	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	bK	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	bL	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	bt	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	bu	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	d	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	d0	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	da	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	db	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	e	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	eA	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	fH	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	fl	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	fq	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	fr	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	gP	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	gQ	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	gy	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	gz	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	i	124	Total 971	C 624	N 166	O 176	S 5	0	0
2	j	142	Total 1079	C 690	N 185	O 199	S 5	0	0
2	n	124	Total 971	C 624	N 166	O 176	S 5	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	o	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		
2	t	124	Total	C	N	O	S	0	0
			971	624	166	176	5		
2	u	142	Total	C	N	O	S	0	0
			1079	690	185	199	5		

- Molecule 3 is a protein called Tail tube initiator complex protein gp062.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	4	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	AA	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	AH	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	AO	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	AV	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Ac	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Aj	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	IB	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Ik	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	JJ	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Js	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	K1	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	KR	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	L9	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	LZ	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Mh	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	NG	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Np	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	OO	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Ox	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	P6	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	PW	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Qe	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	RD	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Rm	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	SL	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Su	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	T3	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	TT	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Ub	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	V	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	VA	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Vj	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	WI	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Wr	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	XQ	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Xz	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	Y8	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	YY	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Z	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	Zg	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	aF	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	ao	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	bN	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	bw	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	dd	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	eC	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	fK	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	ft	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	g	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	g2	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	gS	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	l	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	q	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		
3	w	172	Total	C	N	O	S	0	0
			1400	885	245	264	6		

- Molecule 4 is a protein called Tail Tube gp217.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	5	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	AB	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	AI	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	AP	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	AW	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	Ad	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	Ak	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	IC	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	Il	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	JK	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	Jt	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	K2	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	KS	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	L0	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	La	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	Mi	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	NH	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	Nq	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	OP	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	Oy	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	P7	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	PX	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	Qf	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	RE	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	Rn	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	SM	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	Sv	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	T4	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	TU	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	Uc	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	VB	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	Vk	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	WJ	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	Ws	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	X1	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	XR	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	Y9	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	YZ	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	Zh	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	aG	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	ap	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	b	227	Total 1786	C 1128	N 301	O 351	S 6	0	0
4	bO	227	Total 1786	C 1128	N 301	O 351	S 6	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
4	bx	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	c	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	de	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	eD	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	fL	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	fu	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	g3	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	gT	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	h	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	m	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	r	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		
4	x	227	Total	C	N	O	S	0	0
			1786	1128	301	351	6		

- Molecule 5 is a protein called Inner-peripheral baseplate spoke gp32.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	6	96	Total	C	N	O	S	0	0
			759	470	137	150	2		
5	AC	96	Total	C	N	O	S	0	0
			759	470	137	150	2		
5	AJ	96	Total	C	N	O	S	0	0
			759	470	137	150	2		
5	AQ	96	Total	C	N	O	S	0	0
			759	470	137	150	2		
5	AX	96	Total	C	N	O	S	0	0
			759	470	137	150	2		
5	Ae	96	Total	C	N	O	S	0	0
			759	470	137	150	2		
5	C	96	Total	C	N	O	S	0	0
			759	470	137	150	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	D	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	E	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	F	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Hx	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	I6	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	IW	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Je	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	KD	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Km	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	L	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	LL	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Lu	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	M3	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	MT	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	N	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Nb	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	OA	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Oj	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	PI	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Pr	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	QQ	96	Total 759	C 470	N 137	O 150	S 2	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	Qz	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	R8	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	RY	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Sg	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	TF	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	To	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	UN	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Uw	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	V5	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	VV	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Wd	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	XC	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Xl	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	YK	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Yt	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	Z2	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	ZS	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	a0	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	aa	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	bi	96	Total 759	C 470	N 137	O 150	S 2	0	0
5	dP	96	Total 759	C 470	N 137	O 150	S 2	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	dy	96	Total	C	N	O	S	0	0
			759	470	137	150	2		
5	e7	96	Total	C	N	O	S	0	0
			759	470	137	150	2		
5	ff	96	Total	C	N	O	S	0	0
			759	470	137	150	2		
5	gE	96	Total	C	N	O	S	0	0
			759	470	137	150	2		
5	gn	96	Total	C	N	O	S	0	0
			759	470	137	150	2		
5	y	96	Total	C	N	O	S	0	0
			759	470	137	150	2		

- Molecule 6 is a protein called Inner-peripheral baseplate spoke gp220.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	7	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	AD	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	AK	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	AR	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	AY	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	Af	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	Am	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	G	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	H	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	H8	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	I	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	Ig	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	J	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	JF	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	Jo	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	K	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	KN	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	Kw	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	L5	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	LV	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	M	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	Md	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	NC	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	NI	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	OK	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	Ot	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	P2	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	PS	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	Q0	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	Qa	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	Ri	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	SH	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	Sq	147	Total 1198	C 763	N 212	O 216	S 7	0	0
6	TP	147	Total 1198	C 763	N 212	O 216	S 7	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	Ty	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	U7	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	UX	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	Vf	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	WE	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	Wn	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	XM	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	Xv	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	Y4	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	YU	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	Zc	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	aB	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	ak	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	bJ	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	bs	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	c1	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	cR	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	d9	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	dZ	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	eh	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	fG	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		

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Mol	Chain	Residues	Atoms					AltConf	Trace
6	fp	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	gO	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	gx	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	s	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		
6	z	147	Total	C	N	O	S	0	0
			1198	763	212	216	7		

- Molecule 7 is a protein called Major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	A0	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	A1	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	A2	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	A3	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	A4	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	A5	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	A6	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	A7	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	A8	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	A9	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ar	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	As	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Au	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Av	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Aw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ax	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ay	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Az	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	B0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	B1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	B2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	B3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	B4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	B5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	B6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	B7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	B8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	B9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	BH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BU	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	BV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	BZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ba	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Bc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Be	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bi	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Br	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bs	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bt	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bv	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Bw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Bx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	By	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Bz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	C0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	C1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	C2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	C3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	C4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	C5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	C6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	C8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	C9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	CJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CM	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	CN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	CZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ca	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Ce	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ch	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ci	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Co	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cr	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Cs	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ct	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Cz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	D0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	D2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	D3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	D4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	D5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	D6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	D7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	D8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	D9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DJ	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	DK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	DP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	DZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Da	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Db	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	De	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Df	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Di	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Dl	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Dm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Do	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ds	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dt	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Du	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Dz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	E0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	E1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	E2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	E3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	E4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	E5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	E6	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	E7	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	E8	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	E9	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EA	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EB	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EC	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	ED	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	EE	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EF	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EG	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EH	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EI	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EJ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EK	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EL	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EM	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EN	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EO	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EP	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	EQ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	ER	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ET	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	EU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	EV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	EW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	EX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	EY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	EZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ea	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Eb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ec	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ed	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ee	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ef	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Eg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Eh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ei	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ej	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ek	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	El	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Em	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	En	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Eo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ep	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Eq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Er	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Es	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Et	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ev	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ew	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ex	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ey	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ez	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	F0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	F1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	F2	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	F3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	F4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	F5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	F6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	F7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	F8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	F9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	FU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	FV	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	FW	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	FX	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	FY	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	FZ	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	Fa	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fb	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fc	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fd	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fe	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ff	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fg	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fh	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fi	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fj	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fk	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fl	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fm	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fn	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fp	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Fq	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Fr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Fs	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ft	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Fu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Fv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Fw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Fx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Fy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Fz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	G0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	G1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	G2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	G3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	G4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	G5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	G6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	G7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	G8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	G9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	GC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GT	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	GU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	GY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	GZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ga	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ge	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Go	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gs	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Gt	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Gu	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Gv	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	Gw	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Gx	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Gy	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Gz	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	H1	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	H2	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	H3	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	H4	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	H5	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	H6	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	HB	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	HC	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	HD	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	HE	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	HF	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	HG	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	HH	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	HI	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	HJ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	HK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	HZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ha	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	He	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Hi	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ho	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hq	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Hr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hs	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ht	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Hz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	I0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	I1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	I2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	I3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	I4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	I5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	I7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	I8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	I9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ID	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	II	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IP	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	IQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	IT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	IZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ia	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ib	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ic	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Id	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ie	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Im	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	In	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Io	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ip	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Iq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ir	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Is	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	It	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Iu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Iv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Iw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ix	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Iy	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Iz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	J0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	J1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	J2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	J3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	J4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	J5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	J6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	J7	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	J8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	J9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	JO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JX	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	JY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	JZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ja	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ji	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Jk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ju	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Jz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	K0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	K3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	K4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	K5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	K6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	K7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	K8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	K9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	KF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	KZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ka	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Kb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Kc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Kd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ke	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Kf	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Kg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Kh	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ki	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Kj	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Kk	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Kl	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Kn	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ko	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Kp	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Kq	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Kr	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ks	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Kt	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ku	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	L1	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	L2	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	L3	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	LA	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	LB	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	LC	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	LD	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	LE	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	LF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	LT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ld	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Le	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Li	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ll	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ln	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Lo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ls	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lt	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ly	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Lz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	M0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	M1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	M2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	M4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	M5	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	M6	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	M7	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	M8	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	M9	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MA	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MB	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MC	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MD	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	ME	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MF	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MG	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MH	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MI	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MJ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MK	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	ML	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MM	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	MN	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MO	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	MP	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	MQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	MR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	MS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	MU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	MV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	MW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	MX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	MY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	MZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ma	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ml	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ms	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Mt	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mv	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Mw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	My	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Mz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	N0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	N1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	N2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	N3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	N4	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	N5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	N6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	N7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	N8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	N9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	NL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NU	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	NV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	NZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Na	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Nc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Nd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ne	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Nf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ng	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Nh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ni	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Nj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Nr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ns	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Nt	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Nu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Nv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Nw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Nx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ny	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Nz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	O0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	O1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	O2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	O3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	O4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	O5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	O6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	O7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	O8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	O9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	OZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Oa	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ob	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Oc	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Od	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Oe	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Of	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Og	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Oh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Oi	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ok	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ol	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Om	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	On	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Oo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Op	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Oq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Or	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Oz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	P0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	P8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	P9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PB	576	Total 4593	C 2902	N 799	O 875	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	PC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	PZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Pa	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Pb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Pc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Pd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Pe	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Pf	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pg	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ph	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pi	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pj	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pk	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	Pl	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pm	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pn	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Po	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pp	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pq	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ps	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pt	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pu	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pv	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pw	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Px	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Py	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Pz	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Q1	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Q2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Q3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Q4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Q5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Q6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Q7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Q8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QJ	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	QK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	QO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	QY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qi	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ql	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Qr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qs	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Qt	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Qy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	R0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	R1	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	R2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	R3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	R4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	R5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	R6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	R7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	R9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	RF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	RG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	RH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	RI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	RJ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RK	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RL	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RM	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RN	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RO	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RP	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RQ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RR	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	RS	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RT	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RU	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RV	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RW	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RX	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	RZ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ra	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Rb	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Rc	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Rd	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Re	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Rf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Rg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ro	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Rp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Rq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Rr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Rs	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Rt	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ru	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Rv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Rw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Rx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ry	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Rz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	S0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	S1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	S2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	S3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	S4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	S5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	S6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	S7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	S8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	S9	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	SA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ST	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	SY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	SZ	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Sa	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Se	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Si	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	So	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Sz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	T0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	T5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	T6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	T7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	T8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	T9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	TY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	TZ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ta	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tb	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tc	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Td	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Te	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tf	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tg	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Th	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	Ti	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tj	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tk	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tl	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tm	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tn	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tp	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tq	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tr	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ts	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tt	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Tu	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Tv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Tw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	U1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	U2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	U3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	U4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	U5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UG	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	UH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	UP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	US	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	UV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ud	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ue	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Uf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ug	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Uh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ui	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Uj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Uk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ul	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Um	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Un	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Uo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Up	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Uq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Ur	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Us	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ut	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Uu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Uv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ux	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Uy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Uz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	V0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	V1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	V2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	V3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	V4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	V6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	V7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	V8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	V9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	VG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VO	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	VP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	VZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Va	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Vc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vs	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vt	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vx	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Vy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Vz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	W0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	W1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	W2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	W3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	W4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	W5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	W6	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	W7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	W8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	W9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	WV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	WW	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	WX	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	WY	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	WZ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wa	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wb	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wc	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	We	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wf	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wg	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wh	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wi	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wj	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wk	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wl	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wt	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wu	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wv	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Ww	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wx	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Wy	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Wz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	X0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	X2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	X3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	X4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	X5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	X6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	X7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	X8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	X9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	XT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	XZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xa	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xe	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Xf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xi	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Xp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xs	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Xt	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Y0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Y1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Y2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YD	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	YE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	YO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	YS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ya	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ye	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yi	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ym	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	Yn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	Yq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Ys	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Yz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Z0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Z1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Z3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Z4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Z5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Z6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Z7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Z8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	Z9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	ZD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZL	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	ZM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ZY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	ZZ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Za	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zi	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zj	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zk	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zl	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zm	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zn	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zo	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zp	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zq	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zr	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zs	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zt	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zu	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	Zv	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zw	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zx	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zy	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	Zz	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	a1	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	a2	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	a3	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	a4	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	a5	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	a6	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	a7	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	a8	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	a9	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aH	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aI	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aJ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aK	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aL	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aM	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aN	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aO	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aP	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aQ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aR	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aS	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	aT	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	aU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	aV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	aW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	aX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	aY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	aZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ab	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ac	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ad	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ae	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	af	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ag	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ah	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ai	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	aq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ar	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	as	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	at	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	au	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	av	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	aw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	ax	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ay	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	az	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	b0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	b1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	b2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	b3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	b4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	b5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	b6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	b7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	b8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	b9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	bP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ba	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bb	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	bc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	be	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	bl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	by	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	bz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	c0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	c7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	c8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	c9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	cL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ca	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ce	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ch	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ci	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ck	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	co	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cr	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cs	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ct	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	cy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	d1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	d2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	d3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	d4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	d5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	d6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	d7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	dE	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dF	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dG	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dH	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dI	576	Total	C	N	O	S	0	0
			4593	2902	799	875	17		
7	dJ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dK	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dL	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dM	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dN	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dO	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dQ	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dR	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dS	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dT	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dU	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dV	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dW	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dX	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	df	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	dg	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	dh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	di	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	do	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dr	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	ds	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dt	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	du	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	dz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	e0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	e1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	e2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	e3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	e4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	e5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	e6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	e8	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	e9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	eU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ea	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ec	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ed	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ee	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ef	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	en	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eo	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ep	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	er	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	es	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	et	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	eu	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ev	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ew	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	ex	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ey	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ez	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	f0	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	f1	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	f2	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	f3	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	f4	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	f5	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	f6	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	f7	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	f8	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	f9	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fE	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fN	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fO	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	fP	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fQ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fR	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fS	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fT	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fY	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	fZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fa	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fe	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fg	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fi	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	fl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fn	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fv	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fw	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fx	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fy	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	fz	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gA	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gB	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gC	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gD	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gF	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gG	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gH	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gI	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gJ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gK	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gL	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gM	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gU	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	gV	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gW	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gX	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gY	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gZ	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ga	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gb	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gc	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gd	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	ge	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gf	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gg	576	Total 4593	C 2902	N 799	O 875	S 17	0	0
7	gh	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gi	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gj	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gk	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gl	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gm	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	go	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gp	583	Total 4651	C 2939	N 809	O 886	S 17	0	0
7	gq	583	Total 4651	C 2939	N 809	O 886	S 17	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
7	gr	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	gs	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	gt	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	gu	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		
7	gv	583	Total	C	N	O	S	0	0
			4651	2939	809	886	17		

- Molecule 8 is a protein called Inner-peripheral baseplate spoke gp32.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	C7	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	Cl	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	Cm	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	Cn	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	D1	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	DY	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	ES	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	Eu	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	FM	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	Fo	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	GG	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	Gi	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	H7	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	HA	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	If	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	JE	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	Jn	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	KM	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	Kv	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	L4	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	LU	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	Mc	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	NB	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	Nk	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	OJ	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	Os	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	P1	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	PR	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	Q9	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	QZ	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	Rh	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	SG	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	Sp	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	TO	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0
8	Tx	662	Total 5383	C 3432	N 930	O 1003	S 18	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
8	U6	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	UW	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	Ve	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	WD	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	Wm	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	XL	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	Xu	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	Y3	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	YT	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	Zb	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	aA	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	aj	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	bI	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	br	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	d8	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	dY	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	fF	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	fo	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	gN	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		
8	gw	662	Total	C	N	O	S	0	0
			5383	3432	930	1003	18		

- Molecule 9 is a protein called Inner-peripheral baseplate spoke gp220.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	qp	455	Total	C	N	O	S	0	0
			3584	2255	607	696	26		
9	qq	455	Total	C	N	O	S	0	0
			3584	2255	607	696	26		
9	qr	455	Total	C	N	O	S	0	0
			3584	2255	607	696	26		

- Molecule 10 is a protein called Tail terminator gp51.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	qs	362	Total	C	N	O	S	0	0
			2807	1736	483	571	17		
10	qt	362	Total	C	N	O	S	0	0
			2807	1736	483	571	17		
10	rj	362	Total	C	N	O	S	0	0
			2807	1736	483	571	17		

- Molecule 11 is a protein called Tail sheath protein gp29 gp29PR domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	cA	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	cH	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	cQ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	cS	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	cT	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	cU	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	cV	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	cW	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	cj	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	cq	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	cz	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ei	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	ej	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ek	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	el	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	em	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	g4	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	g5	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	hn	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ho	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	hp	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	hq	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	hr	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	hs	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ht	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	h1	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	h2	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	h3	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	h4	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	h5	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	h6	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iC	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iD	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	iE	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iF	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iG	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iH	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iO	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iP	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iQ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iR	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iS	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iT	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ia	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ib	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ic	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	id	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ie	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	if	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	im	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	in	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	io	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ip	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iq	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	ir	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	iz	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	i1	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	i2	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	i3	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	i4	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	i5	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jB	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jC	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jD	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jE	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jF	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jG	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jN	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jO	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jP	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jQ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jR	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jS	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jY	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jZ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	ja	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jb	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jc	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jd	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jl	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jm	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jn	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jo	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jp	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jx	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jy	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	jz	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	j1	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	j2	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	j3	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	j0	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kA	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kB	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kC	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kD	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kE	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	kL	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kM	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kN	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kO	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kP	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kQ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kX	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kY	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kZ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ka	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kb	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kc	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kj	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kl	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	km	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kn	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ko	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kw	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kx	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ky	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	kz	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	k1	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	k2	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	k9	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	k0	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lA	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lB	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lC	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lD	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lK	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lL	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lM	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lN	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lO	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lP	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lW	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lX	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lY	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lZ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	la	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lb	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	li	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	lj	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lk	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lm	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ln	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lu	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lv	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lw	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lx	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ly	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	lz	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	l1	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	l8	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	l9	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	l0	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mA	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mB	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mC	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mJ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mK	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mL	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mM	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	mN	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mO	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mV	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mW	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mX	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mY	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mZ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ma	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mh	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mi	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mj	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mk	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ml	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mn	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mt	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mu	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mv	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mw	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mx	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	my	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	mz	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	m7	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	m8	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	m9	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	m0	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nA	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nB	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nI	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nJ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nK	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nL	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nM	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nN	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nU	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nV	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nW	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nX	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nY	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nZ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ng	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nh	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ni	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	nj	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nk	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nl	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ns	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nt	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nu	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nv	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nw	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	nx	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ny	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	n6	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	n7	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	n8	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	n9	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	n0	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oA	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oG	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oH	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oI	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oJ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oK	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	oL	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oQ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oR	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oS	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oT	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oU	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oV	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oc	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	od	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oe	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	of	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	og	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	oh	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ou	670	Total	C	N	O	S	0	0
			5225	3294	883	1026	22		
11	o2	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	o3	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	o4	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	o5	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	o6	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	o7	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	pP	670	Total	C	N	O	S	0	0
			5225	3294	883	1026	22		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	pe	670	Total	C	N	O	S	0	0
			5225	3294	883	1026	22		
11	p0	670	Total	C	N	O	S	0	0
			5225	3294	883	1026	22		
11	qO	670	Total	C	N	O	S	0	0
			5225	3294	883	1026	22		
11	qd	670	Total	C	N	O	S	0	0
			5225	3294	883	1026	22		
11	q3	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	q4	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	q5	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	q6	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	q7	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	rQ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	rR	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	rS	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	rT	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	rU	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	rV	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	rW	661	Total	C	N	O	S	0	0
			5179	3263	876	1019	21		
11	rX	661	Total	C	N	O	S	0	0
			5179	3263	876	1019	21		
11	rY	661	Total	C	N	O	S	0	0
			5179	3263	876	1019	21		
11	rc	661	Total	C	N	O	S	0	0
			5179	3263	876	1019	21		
11	re	661	Total	C	N	O	S	0	0
			5179	3263	876	1019	21		
11	rg	661	Total	C	N	O	S	0	0
			5179	3263	876	1019	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
11	ri	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	R	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	tD	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	tE	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	tF	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	tG	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	tH	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	tZ	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ta	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	tb	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	tc	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	td	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	te	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	tf	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	tg	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	th	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	ti	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		
11	tj	680	Total	C	N	O	S	0	0
			5306	3345	895	1044	22		

- Molecule 12 is a protein called Virion structural protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	A	269	Total	C	N	O	S	0	0
			2133	1348	364	413	8		

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Mol	Chain	Residues	Atoms					AltConf	Trace
12	hK	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	hL	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	hM	269	Total	C	N	O	S	0	0
			2133	1348	364	413	8		
12	hN	269	Total	C	N	O	S	0	0
			2130	1348	361	413	8		
12	hR	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	hS	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	B	269	Total	C	N	O	S	0	0
			2130	1348	361	413	8		
12	qo	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	qx	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	q2	269	Total	C	N	O	S	0	0
			2130	1348	361	413	8		
12	q8	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	q9	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	q0	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	rA	269	Total	C	N	O	S	0	0
			2133	1348	364	413	8		
12	rG	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	rH	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	rI	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	rJ	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	rN	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	rO	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	rP	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
12	rk	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	rl	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	rm	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	rn	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	rt	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	ru	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	rz	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	r1	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	r2	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	r3	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	r4	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	r5	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	r6	269	Total 2133	C 1348	N 364	O 413	S 8	0	0
12	r7	269	Total 2130	C 1348	N 361	O 413	S 8	0	0
12	sA	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	sB	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	sC	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	sD	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	sE	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	sF	294	Total 2314	C 1458	N 397	O 450	S 9	0	0
12	sG	294	Total 2314	C 1458	N 397	O 450	S 9	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
12	sH	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	sI	269	Total	C	N	O	S	0	0
			2133	1348	364	413	8		
12	sJ	269	Total	C	N	O	S	0	0
			2130	1348	361	413	8		
12	sN	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	sO	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	sP	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	sQ	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	sX	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	sY	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	sZ	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	sa	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	sb	269	Total	C	N	O	S	0	0
			2133	1348	364	413	8		
12	sc	269	Total	C	N	O	S	0	0
			2130	1348	361	413	8		
12	sg	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	sh	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	si	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		
12	sj	294	Total	C	N	O	S	0	0
			2314	1458	397	450	9		

- Molecule 13 is a protein called Tail Tube of Bacteriophage Goslar.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	c2	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	c3	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	c4	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	c5	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	c6	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	eQ	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	eX	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	eg	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	g6	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	g7	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	g8	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	g9	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	g0	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	hA	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	hD	287	Total	C	N	O	S	0	0
			2259	1432	385	431	11		
13	hE	287	Total	C	N	O	S	0	0
			2259	1432	385	431	11		
13	hF	287	Total	C	N	O	S	0	0
			2259	1432	385	431	11		
13	hG	287	Total	C	N	O	S	0	0
			2259	1432	385	431	11		
13	hH	287	Total	C	N	O	S	0	0
			2259	1432	385	431	11		
13	hJ	287	Total	C	N	O	S	0	0
			2259	1432	385	431	11		
13	hT	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	hU	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		
13	hV	296	Total	C	N	O	S	0	0
			2317	1467	394	445	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	hW	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hX	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hY	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hZ	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	Al	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ha	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	An	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	Ao	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	Ap	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	Aq	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hb	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hc	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	At	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hd	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	he	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hf	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hg	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hh	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hi	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hj	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hk	296	Total 2317	C 1467	N 394	O 445	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	hl	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hm	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hu	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hv	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hw	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hx	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hy	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	hz	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	h7	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	h8	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	h9	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	h0	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iA	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iB	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iI	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iJ	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iK	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iL	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iM	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iN	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iU	296	Total 2317	C 1467	N 394	O 445	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	iV	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iW	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iX	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iY	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iZ	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ig	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ih	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ii	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ik	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	il	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	is	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	it	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iu	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iv	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iw	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ix	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	iy	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	i6	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	i7	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	i8	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	i9	296	Total 2317	C 1467	N 394	O 445	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	i0	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jA	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jH	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jI	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jJ	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jK	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jL	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jM	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jT	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	Ck	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jU	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jV	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jW	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jX	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	je	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jf	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jg	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jh	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ji	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jk	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jq	296	Total 2317	C 1467	N 394	O 445	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	jr	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	js	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jt	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ju	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jv	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	jw	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	j4	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	j5	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	j6	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	j7	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	j8	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	j9	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kF	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kG	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kH	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kI	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kJ	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kK	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kR	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kS	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kT	296	Total 2317	C 1467	N 394	O 445	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	kU	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kV	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kW	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kd	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ke	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kf	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kg	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kh	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ki	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kp	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kq	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kr	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ks	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kt	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ku	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	kv	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	k3	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	k4	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	k5	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	k6	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	k7	296	Total 2317	C 1467	N 394	O 445	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	k8	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lE	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lF	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lG	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lH	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lI	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lJ	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lQ	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lR	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lS	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lT	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lU	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lV	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lc	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ld	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	le	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lf	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lg	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lh	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lo	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lp	296	Total 2317	C 1467	N 394	O 445	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	lq	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lr	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ls	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	lt	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	l2	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	l3	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	l4	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	l5	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	l6	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	l7	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mD	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mE	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mF	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mG	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mH	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mI	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mP	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mQ	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mR	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mS	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mT	296	Total 2317	C 1467	N 394	O 445	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	mU	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mb	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mc	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	md	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	me	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mf	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mg	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mo	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mp	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mq	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	mr	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ms	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	m1	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	m2	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	m3	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	m4	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	m5	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	m6	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nC	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nD	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nE	296	Total 2317	C 1467	N 394	O 445	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	nF	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nG	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nH	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nO	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nP	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nQ	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nR	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nS	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nT	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	na	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nb	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nc	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nd	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ne	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nf	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nm	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	no	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	np	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nq	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nr	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	nz	296	Total 2317	C 1467	N 394	O 445	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	n1	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	n2	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	n3	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	n4	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	n5	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	HN	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oB	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oC	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oD	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oE	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oF	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oM	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oN	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oO	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	Hc	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	Hd	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oP	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oW	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oX	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oY	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oZ	296	Total 2317	C 1467	N 394	O 445	S 11	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	oa	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ob	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oi	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oj	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ok	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	os	212	Total 1684	C 1073	N 286	O 316	S 9	0	0
13	ot	268	Total 2086	C 1320	N 357	O 398	S 11	0	0
13	ow	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	ox	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oy	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	oz	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	o1	296	Total 2317	C 1467	N 394	O 445	S 11	0	0
13	pN	212	Total 1684	C 1073	N 286	O 316	S 9	0	0
13	pO	268	Total 2086	C 1320	N 357	O 398	S 11	0	0
13	pc	212	Total 1684	C 1073	N 286	O 316	S 9	0	0
13	pd	268	Total 2086	C 1320	N 357	O 398	S 11	0	0
13	p8	212	Total 1684	C 1073	N 286	O 316	S 9	0	0
13	p9	268	Total 2086	C 1320	N 357	O 398	S 11	0	0
13	qM	212	Total 1684	C 1073	N 286	O 316	S 9	0	0
13	qN	268	Total 2086	C 1320	N 357	O 398	S 11	0	0
13	qb	212	Total 1684	C 1073	N 286	O 316	S 9	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
13	qc	268	Total	C	N	O	S	0	0
			2086	1320	357	398	11		

- Molecule 14 is a protein called Tail Tube gp217.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	hB	361	Total	C	N	O	S	0	0
			2954	1884	508	548	14		
14	hC	361	Total	C	N	O	S	0	0
			2954	1884	508	548	14		
14	hI	361	Total	C	N	O	S	0	0
			2954	1884	508	548	14		
14	rK	361	Total	C	N	O	S	0	0
			2954	1884	508	548	14		
14	rL	361	Total	C	N	O	S	0	0
			2954	1884	508	548	14		
14	rM	361	Total	C	N	O	S	0	0
			2954	1884	508	548	14		

- Molecule 15 is a protein called Virion structural protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	hO	864	Total	C	N	O	S	0	0
			7037	4480	1195	1336	26		
15	hP	454	Total	C	N	O	S	0	0
			3707	2372	613	709	13		
15	hQ	408	Total	C	N	O	S	0	0
			3318	2102	579	624	13		
15	ij	864	Total	C	N	O	S	0	0
			7037	4480	1195	1336	26		
15	qu	864	Total	C	N	O	S	0	0
			7037	4480	1195	1336	26		
15	qv	454	Total	C	N	O	S	0	0
			3707	2372	613	709	13		
15	qw	408	Total	C	N	O	S	0	0
			3318	2102	579	624	13		
15	rr	454	Total	C	N	O	S	0	0
			3707	2372	613	709	13		
15	rs	408	Total	C	N	O	S	0	0
			3318	2102	579	624	13		
15	r8	864	Total	C	N	O	S	0	0
			7037	4480	1195	1336	26		

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Mol	Chain	Residues	Atoms					AltConf	Trace
15	r9	454	Total	C	N	O	S	0	0
			3707	2372	613	709	13		
15	r0	408	Total	C	N	O	S	0	0
			3318	2102	579	624	13		
15	sK	864	Total	C	N	O	S	0	0
			7037	4480	1195	1336	26		
15	sL	454	Total	C	N	O	S	0	0
			3707	2372	613	709	13		
15	sM	408	Total	C	N	O	S	0	0
			3318	2102	579	624	13		
15	sd	864	Total	C	N	O	S	0	0
			7037	4480	1195	1336	26		
15	se	454	Total	C	N	O	S	0	0
			3707	2372	613	709	13		
15	sf	408	Total	C	N	O	S	0	0
			3318	2102	579	624	13		

- Molecule 16 is a protein called Collar Protein gp126.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	jj	443	Total	C	N	O	S	0	0
			3635	2339	599	684	13		
16	kk	443	Total	C	N	O	S	0	0
			3635	2339	599	684	13		
16	ll	443	Total	C	N	O	S	0	0
			3635	2339	599	684	13		
16	mm	443	Total	C	N	O	S	0	0
			3635	2339	599	684	13		
16	nn	443	Total	C	N	O	S	0	0
			3635	2339	599	684	13		
16	ol	443	Total	C	N	O	S	0	0
			3635	2339	599	684	13		

- Molecule 17 is a protein called Virion structural protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	om	368	Total	C	N	O	S	0	0
			2963	1895	491	561	16		
17	pR	368	Total	C	N	O	S	0	0
			2963	1895	491	561	16		
17	pg	368	Total	C	N	O	S	0	0
			2963	1895	491	561	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
17	qB	368	Total	C	N	O	S	0	0
			2963	1895	491	561	16		
17	qQ	368	Total	C	N	O	S	0	0
			2963	1895	491	561	16		
17	qf	368	Total	C	N	O	S	0	0
			2963	1895	491	561	16		

- Molecule 18 is a protein called Tail sheath gp218.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	on	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	oo	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	op	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	oq	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	or	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	pS	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	pT	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	pU	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	pV	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	pW	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	pX	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	pY	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	pZ	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	pa	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	pb	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	ph	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
18	pi	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	pj	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	pk	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	pl	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	po	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	pp	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	pq	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	px	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	py	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	pz	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	p1	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	p2	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	p3	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	p4	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	p5	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	p6	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	p7	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qC	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qD	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qE	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qF	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
18	qG	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qH	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qI	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qJ	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qK	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qL	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qR	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qS	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qT	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qU	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qV	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qW	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qX	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qY	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qZ	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qa	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qg	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qh	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qi	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qj	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		
18	qk	275	Total	C	N	O	S	0	0
			2200	1409	373	412	6		

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Mol	Chain	Residues	Atoms					AltConf	Trace
18	ql	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		
18	qm	277	Total	C	N	O	S	0	0
			2204	1413	375	410	6		

- Molecule 19 is a protein called Virion structural protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	ov	329	Total	C	N	O	S	0	0
			2659	1715	436	493	15		
19	pQ	329	Total	C	N	O	S	0	0
			2659	1715	436	493	15		
19	pf	329	Total	C	N	O	S	0	0
			2659	1715	436	493	15		
19	qA	329	Total	C	N	O	S	0	0
			2659	1715	436	493	15		
19	qP	329	Total	C	N	O	S	0	0
			2659	1715	436	493	15		
19	qe	329	Total	C	N	O	S	0	0
			2659	1715	436	493	15		

- Molecule 20 is a protein called Virion structural protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	o8	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		
20	o9	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		
20	o0	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		
20	pL	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		
20	pm	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		
20	qn	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		
20	ro	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		
20	sp	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		
20	tC	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		

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Mol	Chain	Residues	Atoms					AltConf	Trace
20	O	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		
20	P	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		
20	Q	693	Total	C	N	O	S	0	0
			5459	3428	928	1068	35		

- Molecule 21 is a protein called Portal Protein gp36.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	pA	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		
21	pB	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		
21	pC	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		
21	pD	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		
21	pE	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		
21	pF	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		
21	pG	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		
21	pH	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		
21	pI	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		
21	pJ	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		
21	pK	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		
21	pM	234	Total	C	N	O	S	0	0
			1854	1179	313	353	9		

- Molecule 22 is a protein called SH3 fold domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	pn	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	pr	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
22	pt	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	pu	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	qy	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	q1	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	rE	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	rF	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	sz	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	s1	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	s5	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	s6	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	s7	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	s8	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	s0	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	tA	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	tJ	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	tK	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	tL	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	tM	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	tO	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	tP	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		
22	tS	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		

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Mol	Chain	Residues	Atoms					AltConf	Trace
22	tT	137	Total	C	N	O	S	0	0
			1072	685	174	212	1		

- Molecule 23 is a protein called Vertex binding complex protein gp66.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	ps	207	Total	C	N	O	S	0	0
			1601	1019	263	315	4		
23	pv	197	Total	C	N	O	S	0	0
			1538	981	253	301	3		
23	pw	207	Total	C	N	O	S	0	0
			1601	1019	263	315	4		
23	rC	197	Total	C	N	O	S	0	0
			1538	981	253	301	3		
23	rD	207	Total	C	N	O	S	0	0
			1601	1019	263	315	4		
23	s2	197	Total	C	N	O	S	0	0
			1538	981	253	301	3		
23	s3	207	Total	C	N	O	S	0	0
			1601	1019	263	315	4		
23	s4	197	Total	C	N	O	S	0	0
			1538	981	253	301	3		
23	s9	207	Total	C	N	O	S	0	0
			1601	1019	263	315	4		
23	tB	197	Total	C	N	O	S	0	0
			1538	981	253	301	3		
23	tX	197	Total	C	N	O	S	0	0
			1538	981	253	301	3		
23	tY	207	Total	C	N	O	S	0	0
			1601	1019	263	315	4		

- Molecule 24 is a protein called Baseplate wedge protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	qz	962	Total	C	N	O	S	0	0
			7629	4830	1263	1508	28		
24	rZ	979	Total	C	N	O	S	0	0
			7770	4918	1285	1537	30		
24	ra	979	Total	C	N	O	S	0	0
			7770	4918	1285	1537	30		
24	rb	979	Total	C	N	O	S	0	0
			7770	4918	1285	1537	30		

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Mol	Chain	Residues	Atoms					AltConf	Trace
24	rd	979	Total	C	N	O	S	0	0
			7770	4918	1285	1537	30		
24	rf	979	Total	C	N	O	S	0	0
			7770	4918	1285	1537	30		
24	rh	979	Total	C	N	O	S	0	0
			7770	4918	1285	1537	30		
24	sq	962	Total	C	N	O	S	0	0
			7629	4830	1263	1508	28		
24	sr	962	Total	C	N	O	S	0	0
			7629	4830	1263	1508	28		
24	st	962	Total	C	N	O	S	0	0
			7629	4830	1263	1508	28		
24	sw	962	Total	C	N	O	S	0	0
			7629	4830	1263	1508	28		
24	tR	962	Total	C	N	O	S	0	0
			7629	4830	1263	1508	28		

- Molecule 25 is a protein called Vertex binding complex protein gp59.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	rB	128	Total	C	N	O	S	0	0
			1022	651	167	200	4		
25	tI	128	Total	C	N	O	S	0	0
			1022	651	167	200	4		
25	a	128	Total	C	N	O	S	0	0
			1022	651	167	200	4		
25	tN	128	Total	C	N	O	S	0	0
			1022	651	167	200	4		
25	tQ	128	Total	C	N	O	S	0	0
			1022	651	167	200	4		
25	tU	128	Total	C	N	O	S	0	0
			1022	651	167	200	4		

- Molecule 26 is a protein called Capsid decorator gp77.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	rp	457	Total	C	N	O	S	0	0
			3563	2253	598	694	18		
26	rv	457	Total	C	N	O	S	0	0
			3563	2253	598	694	18		
26	rx	457	Total	C	N	O	S	0	0
			3563	2253	598	694	18		

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Mol	Chain	Residues	Atoms					AltConf	Trace
26	su	457	Total	C	N	O	S	0	0
			3563	2253	598	694	18		
26	sx	457	Total	C	N	O	S	0	0
			3563	2253	598	694	18		
26	tV	457	Total	C	N	O	S	0	0
			3563	2253	598	694	18		

- Molecule 27 is a protein called Major capsid protein gp41.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	rq	243	Total	C	N	O	S	0	0
			1908	1202	319	381	6		
27	sk	243	Total	C	N	O	S	0	0
			1908	1202	319	381	6		
27	sl	243	Total	C	N	O	S	0	0
			1908	1202	319	381	6		
27	sm	243	Total	C	N	O	S	0	0
			1908	1202	319	381	6		
27	sn	243	Total	C	N	O	S	0	0
			1908	1202	319	381	6		
27	so	243	Total	C	N	O	S	0	0
			1908	1202	319	381	6		

- Molecule 28 is a protein called Major capsid protein gp41.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	rw	106	Total	C	N	O	S	0	0
			866	553	143	166	4		
28	ry	106	Total	C	N	O	S	0	0
			866	553	143	166	4		
28	ss	106	Total	C	N	O	S	0	0
			866	553	143	166	4		
28	sv	106	Total	C	N	O	S	0	0
			866	553	143	166	4		
28	sy	106	Total	C	N	O	S	0	0
			866	553	143	166	4		
28	tW	106	Total	C	N	O	S	0	0
			866	553	143	166	4		

- Molecule 29 is a protein called Virion structural protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	sR	579	Total 4793	C 3063	N 797	O 902	S 31	0	0
29	sS	579	Total 4793	C 3063	N 797	O 902	S 31	0	0
29	sT	579	Total 4793	C 3063	N 797	O 902	S 31	0	0
29	sU	579	Total 4793	C 3063	N 797	O 902	S 31	0	0
29	sV	579	Total 4793	C 3063	N 797	O 902	S 31	0	0
29	sW	579	Total 4793	C 3063	N 797	O 902	S 31	0	0

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	1500	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	30	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	5000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOCONTINUUM (6k x 4k)	Depositor
Maximum map value	6.043	Depositor
Minimum map value	-3.367	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.261	Depositor
Recommended contour level	0.7	Depositor
Map size (Å)	4680.0, 4680.0, 4680.0	wwPDB
Map dimensions	800, 800, 800	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	5.85, 5.85, 5.85	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](#)

validation-pack failed to run properly - this section is therefore empty.

4.5 Carbohydrates [i](#)

validation-pack failed to run properly - this section is therefore empty.

4.6 Ligand geometry [i](#)

validation-pack failed to run properly - this section is therefore empty.

4.7 Other polymers [i](#)

validation-pack failed to run properly - this section is therefore empty.

4.8 Polymer linkage issues ⓘ

The following chains have linkage breaks:

Mol	Chain	Number of breaks
12	A	14
12	hM	14
12	rA	14
12	r6	14
12	sI	14
12	sb	14
12	hN	5
12	B	5
12	q2	5
12	r7	5
12	sJ	5
12	sc	5
27	rq	1
27	sk	1
27	sl	1
27	sm	1
27	sn	1
27	so	1
14	hB	1
14	hC	1
14	hI	1
24	qz	1
14	rK	1
14	rL	1
14	rM	1
24	sq	1
24	sr	1
24	st	1
24	sw	1
24	tR	1

The worst 5 of 132 chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	rq	332:ASN	C	333:TYR	N	7.28
1	sk	332:ASN	C	333:TYR	N	7.28
1	sl	332:ASN	C	333:TYR	N	7.28
1	sm	332:ASN	C	333:TYR	N	7.28
1	sn	332:ASN	C	333:TYR	N	7.28

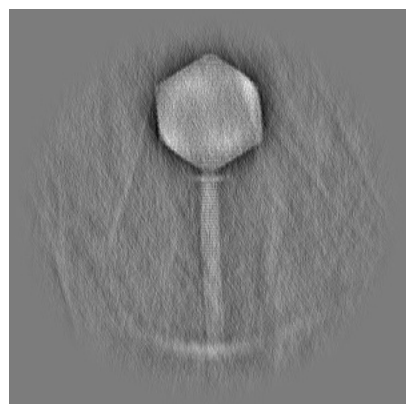
5 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-76130. These allow visual inspection of the internal detail of the map and identification of artifacts.

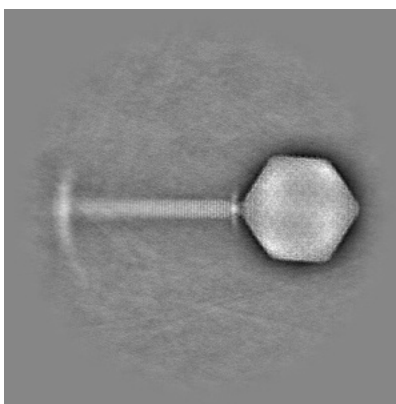
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

5.1 Orthogonal projections [i](#)

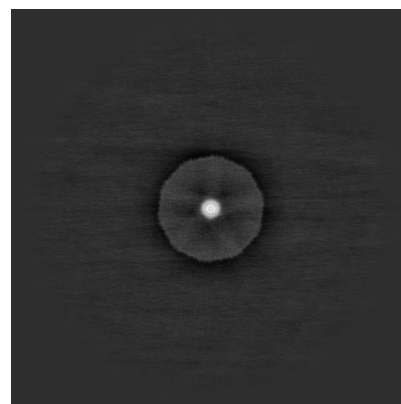
5.1.1 Primary map



X

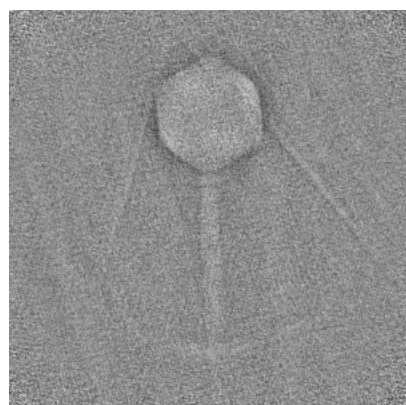


Y

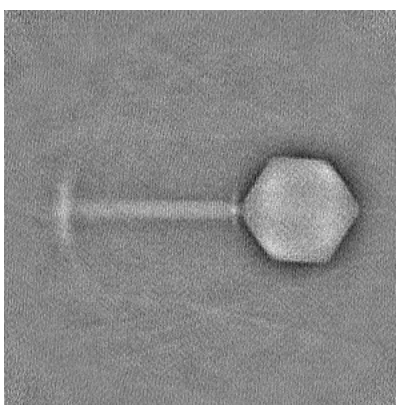


Z

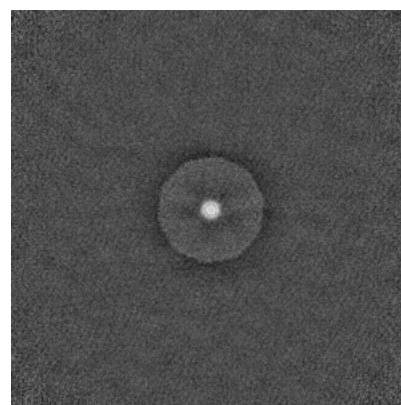
5.1.2 Raw map



X



Y

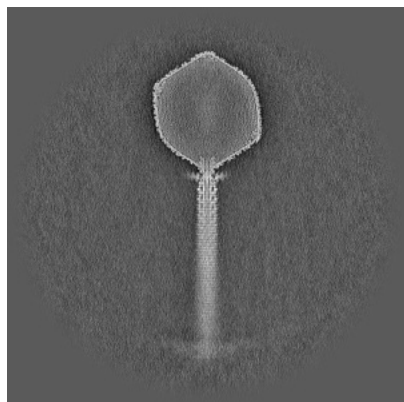


Z

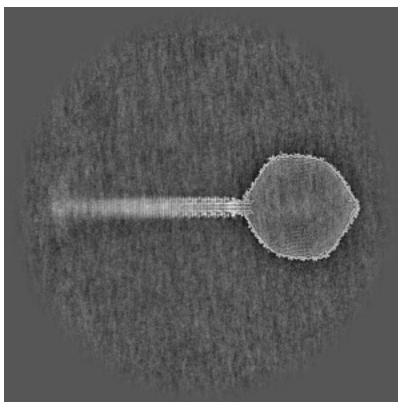
The images above show the map projected in three orthogonal directions.

5.2 Central slices [i](#)

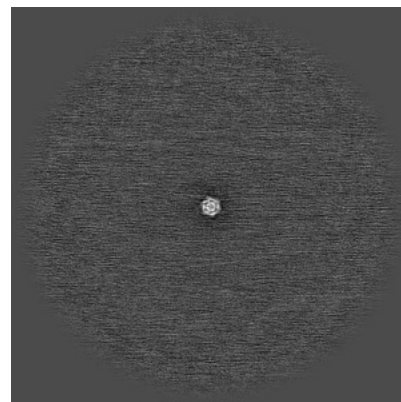
5.2.1 Primary map



X Index: 400

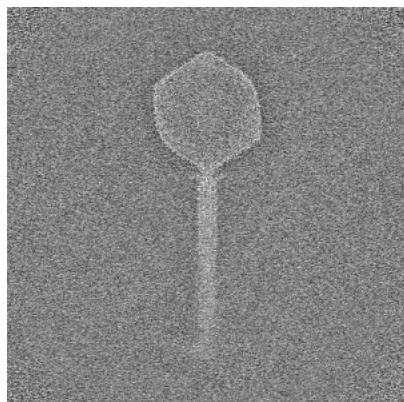


Y Index: 400

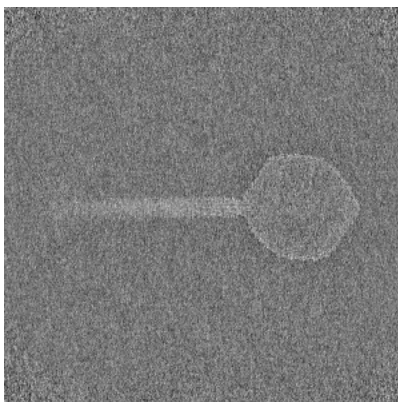


Z Index: 400

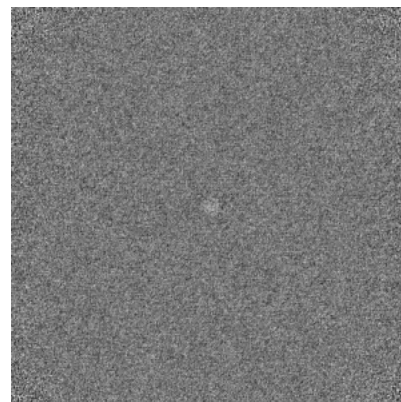
5.2.2 Raw map



X Index: 400



Y Index: 400

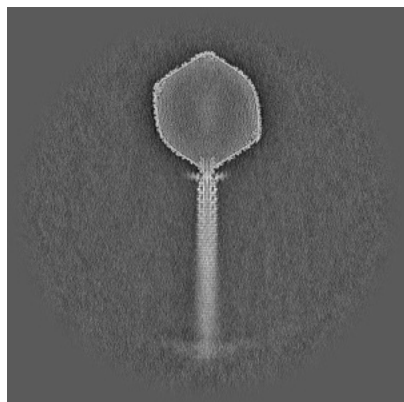


Z Index: 400

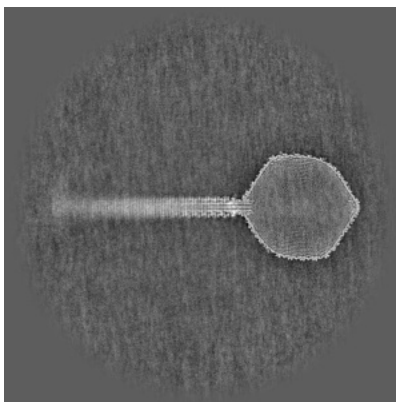
The images above show central slices of the map in three orthogonal directions.

5.3 Largest variance slices [i](#)

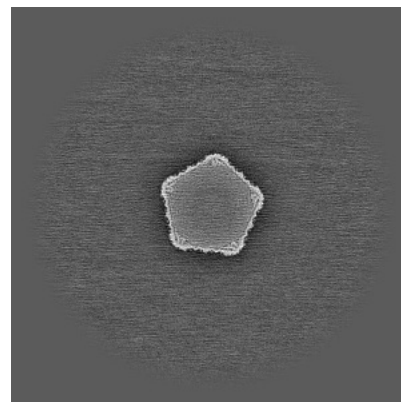
5.3.1 Primary map



X Index: 400

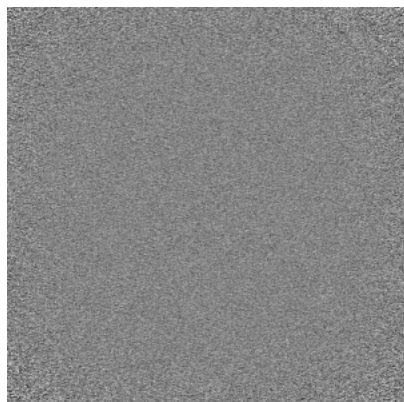


Y Index: 401

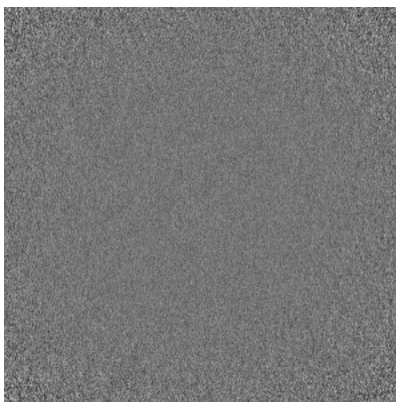


Z Index: 536

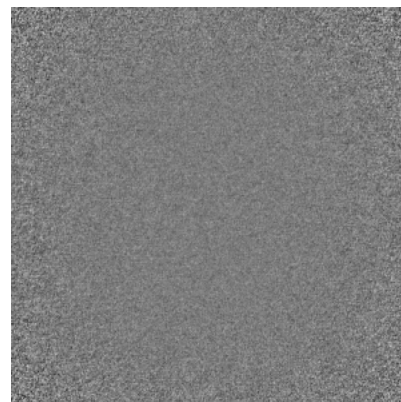
5.3.2 Raw map



X Index: 0



Y Index: 0

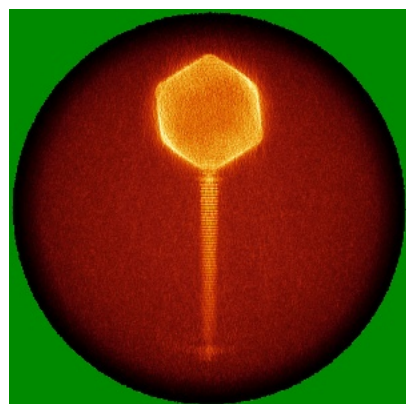


Z Index: 0

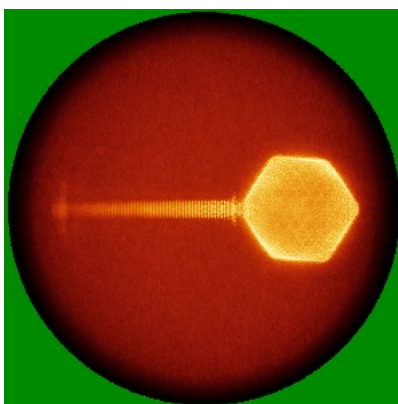
The images above show the largest variance slices of the map in three orthogonal directions.

5.4 Orthogonal standard-deviation projections (False-color) [i](#)

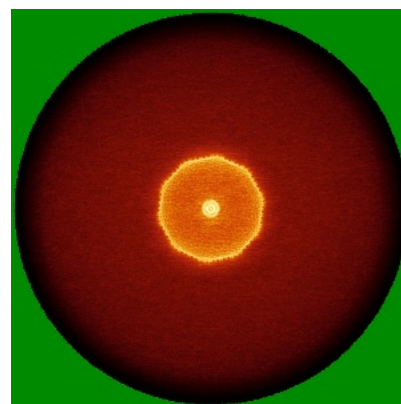
5.4.1 Primary map



X

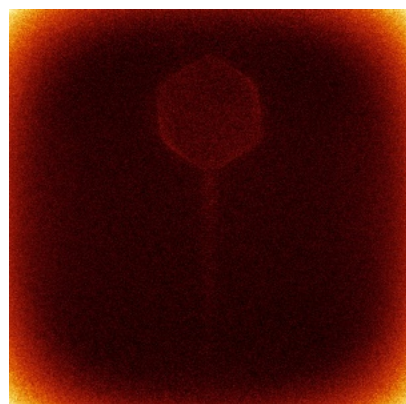


Y

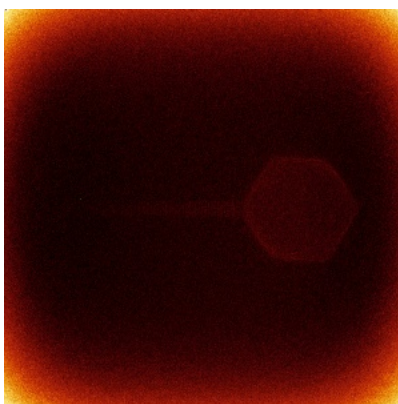


Z

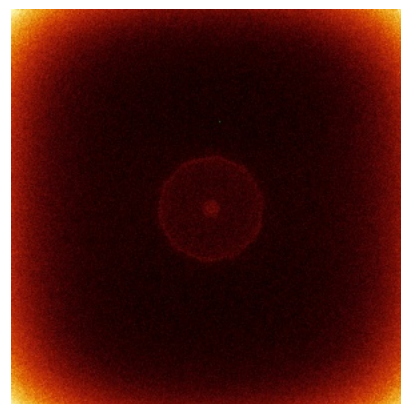
5.4.2 Raw map



X



Y

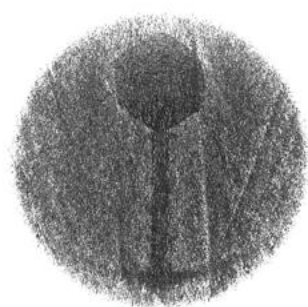


Z

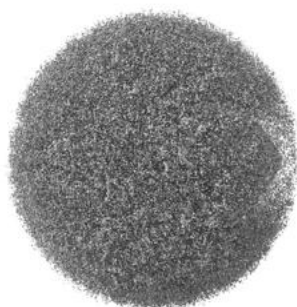
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

5.5 Orthogonal surface views [i](#)

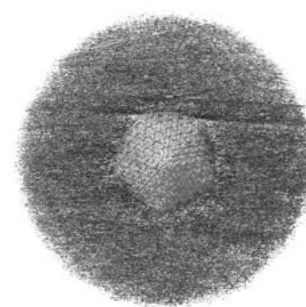
5.5.1 Primary map



X



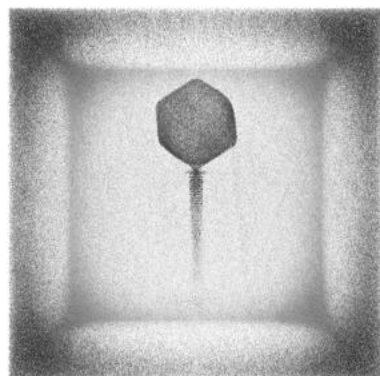
Y



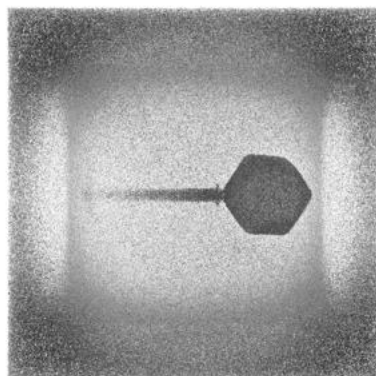
Z

The images above show the 3D surface view of the map at the recommended contour level 0.7. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

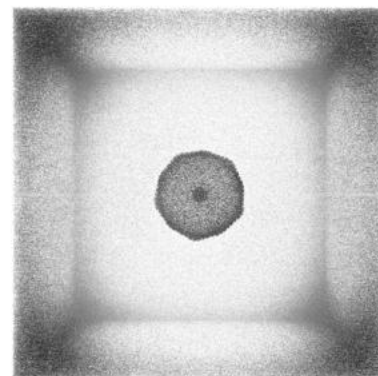
5.5.2 Raw map



X



Y



Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

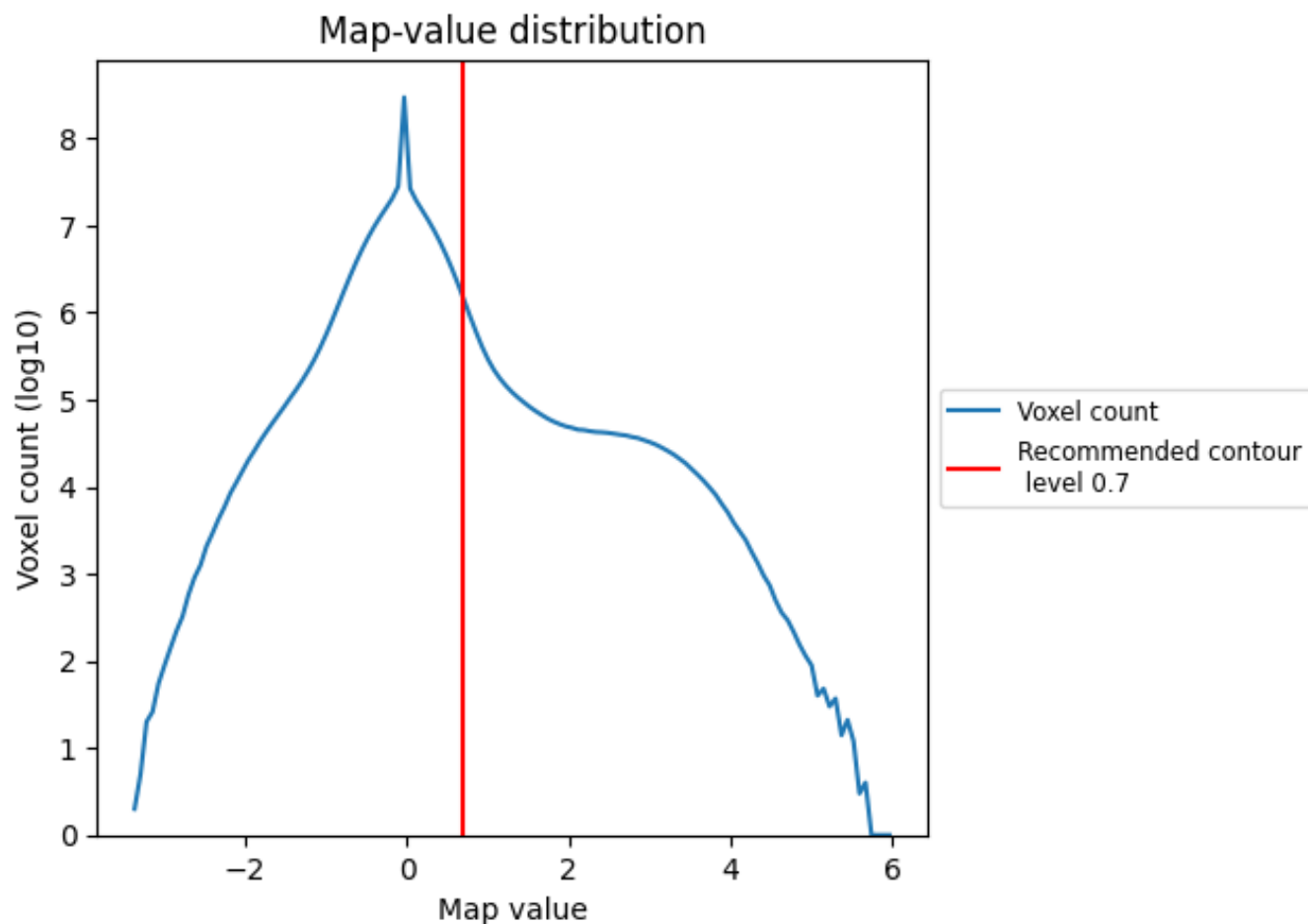
5.6 Mask visualisation [i](#)

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

6 Map analysis [i](#)

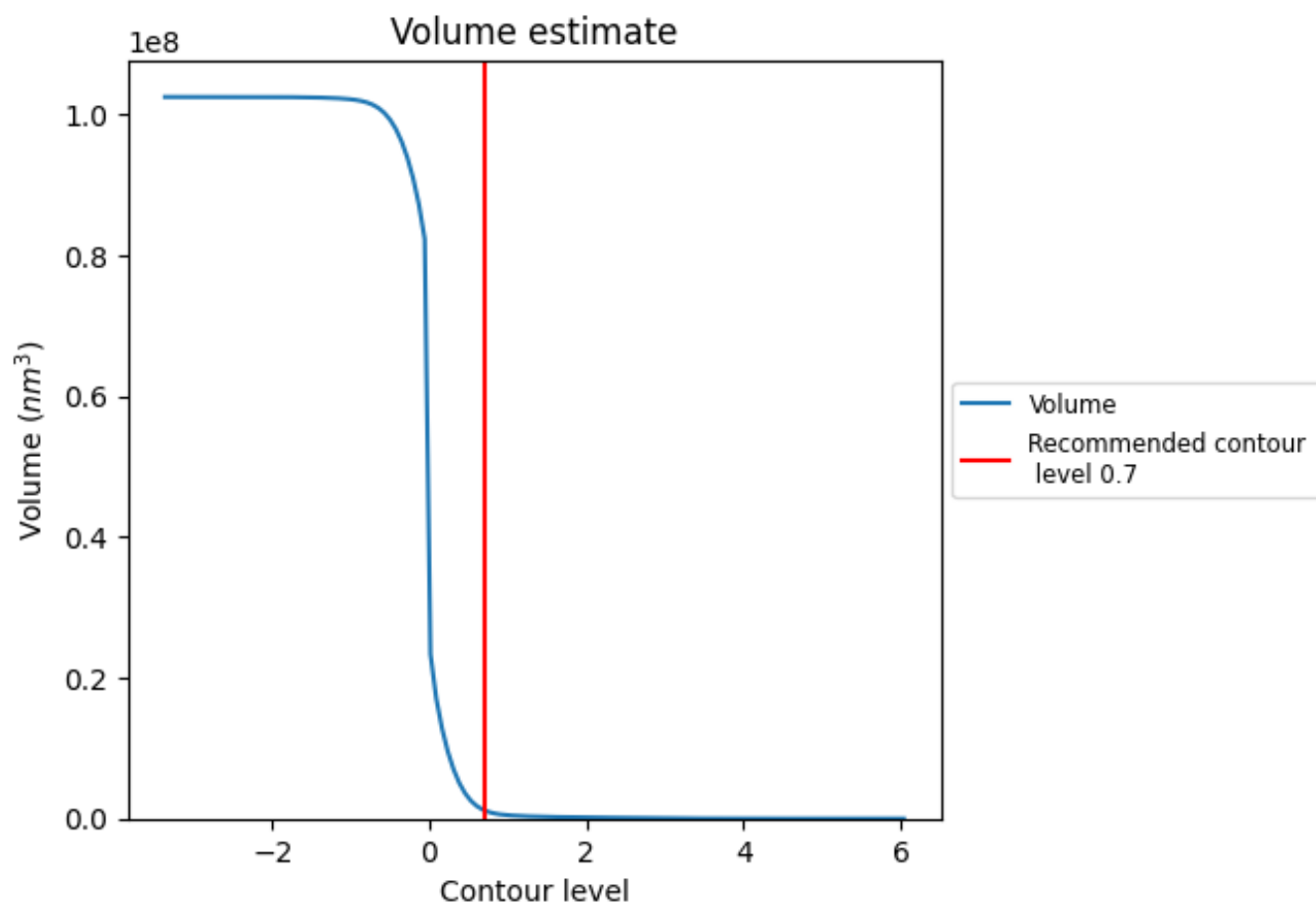
This section contains the results of statistical analysis of the map.

6.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

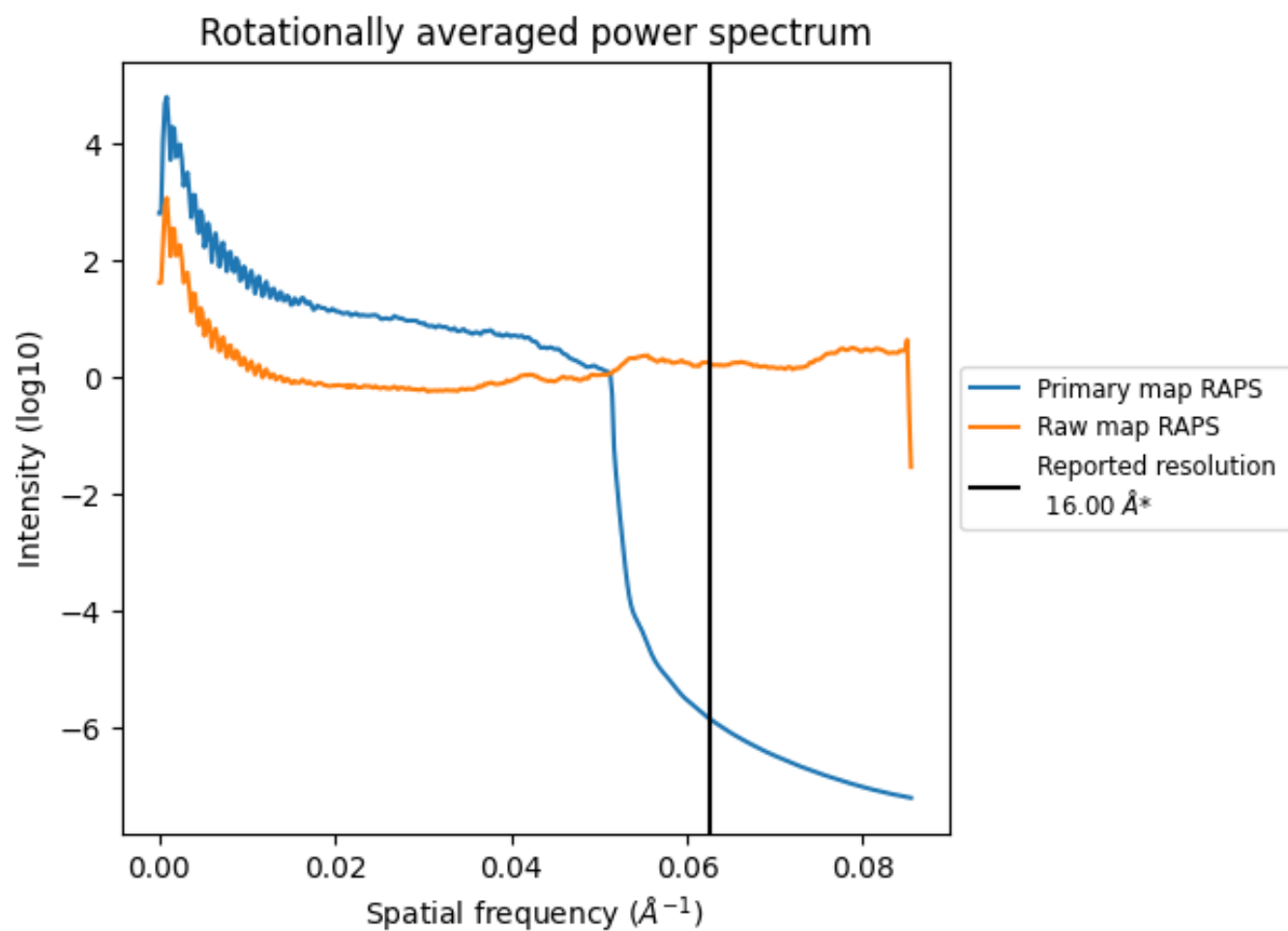
6.2 Volume estimate [i](#)



The volume at the recommended contour level is 1193662 nm³; this corresponds to an approximate mass of 1078266 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

6.3 Rotationally averaged power spectrum [i](#)

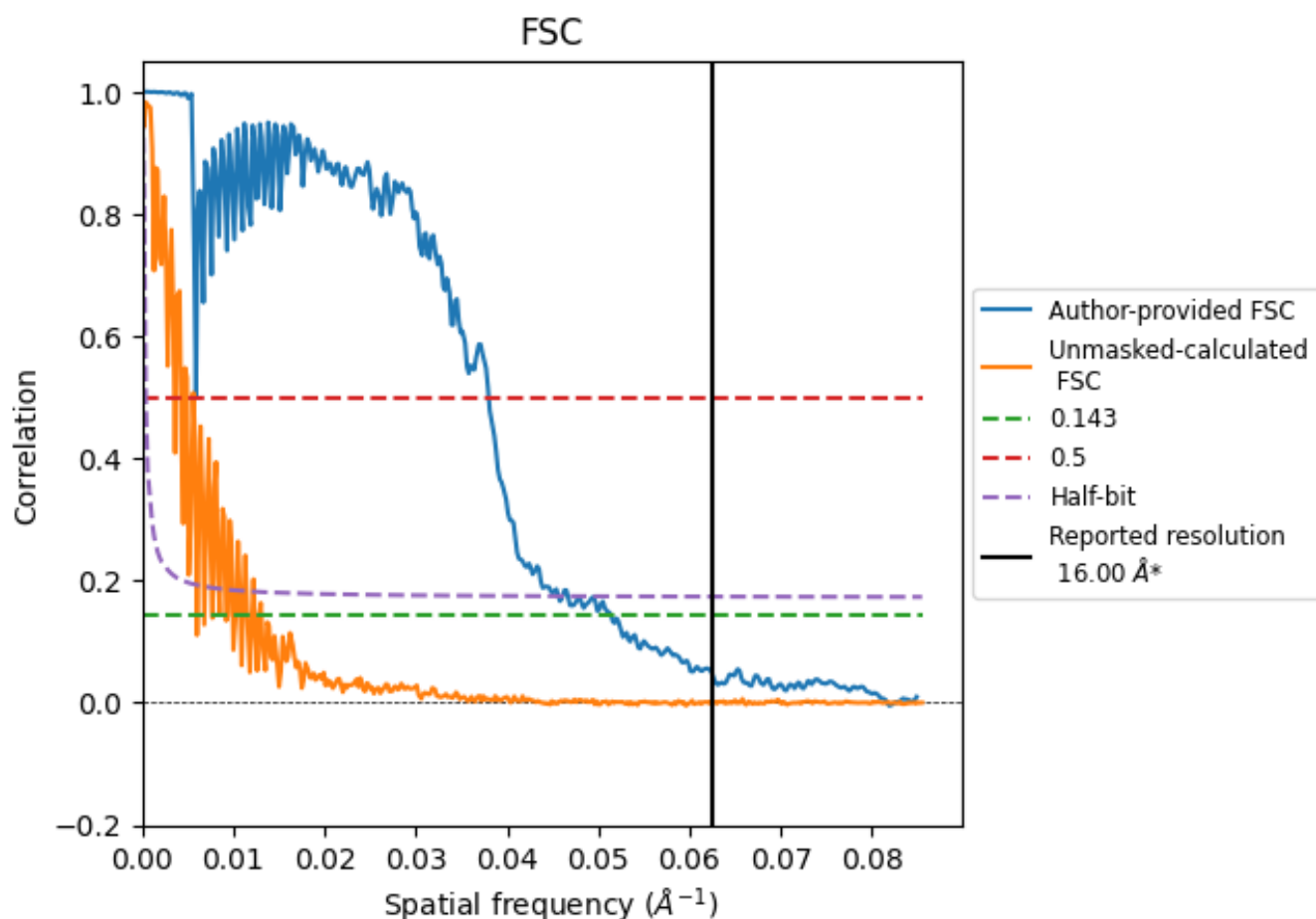


*Reported resolution corresponds to spatial frequency of 0.062 $\text{\AA}^{-1}$

7 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

7.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.062 $\text{\AA}^{-1}$

7.2 Resolution estimates [i](#)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	16.00	-	-
Author-provided FSC curve	19.46	26.32	21.93
Unmasked-calculated*	166.67	277.78	169.49

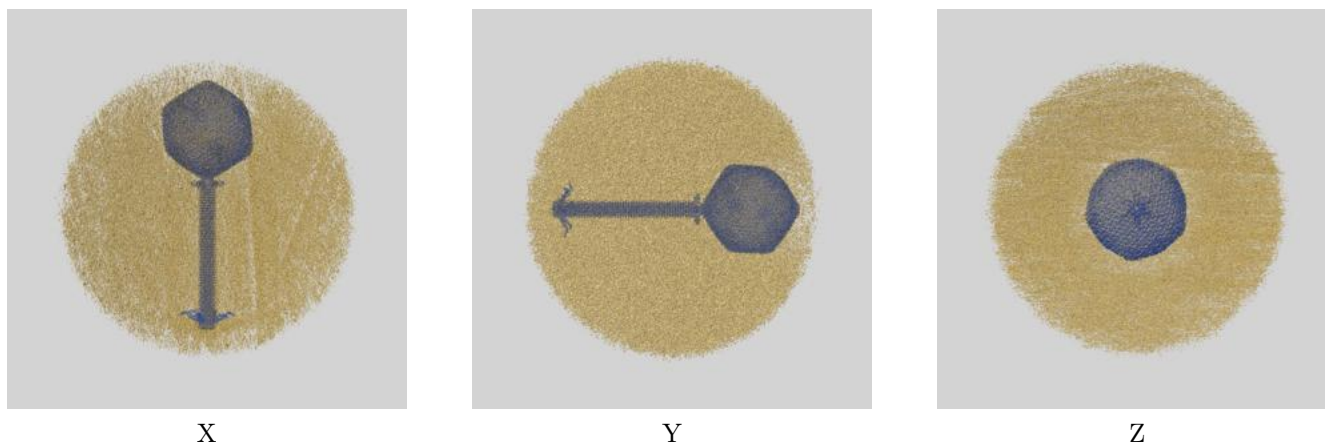
*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from author-provided FSC intersecting FSC 0.143 CUT-OFF 19.46 differs from the reported value 16.0 by more than 10 %

The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 166.67 differs from the reported value 16.0 by more than 10 %

8 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-76130 and PDB model 36ZA. Per-residue inclusion information can be found in section ?? on page ??.

8.1 Map-model overlay [i](#)

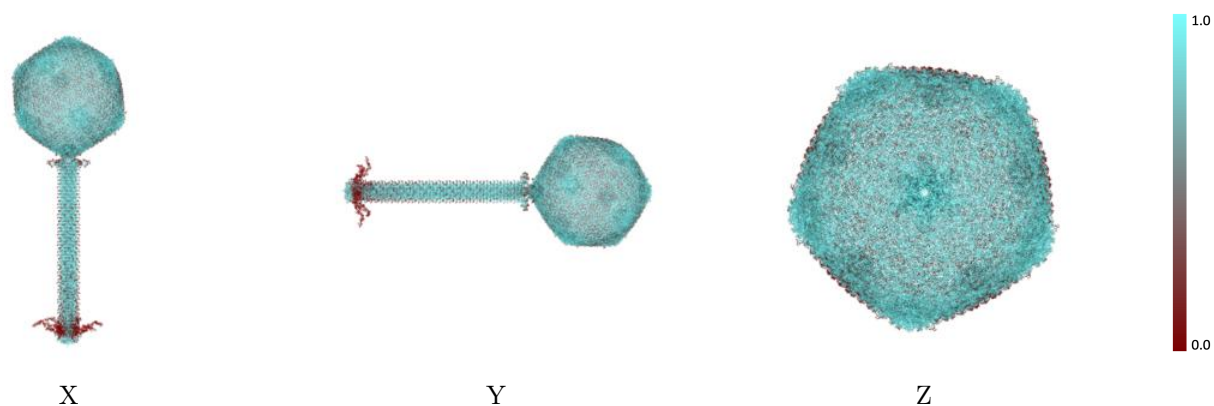


The images above show the 3D surface view of the map at the recommended contour level 0.7 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

8.2 Q-score mapped to coordinate model [i](#)

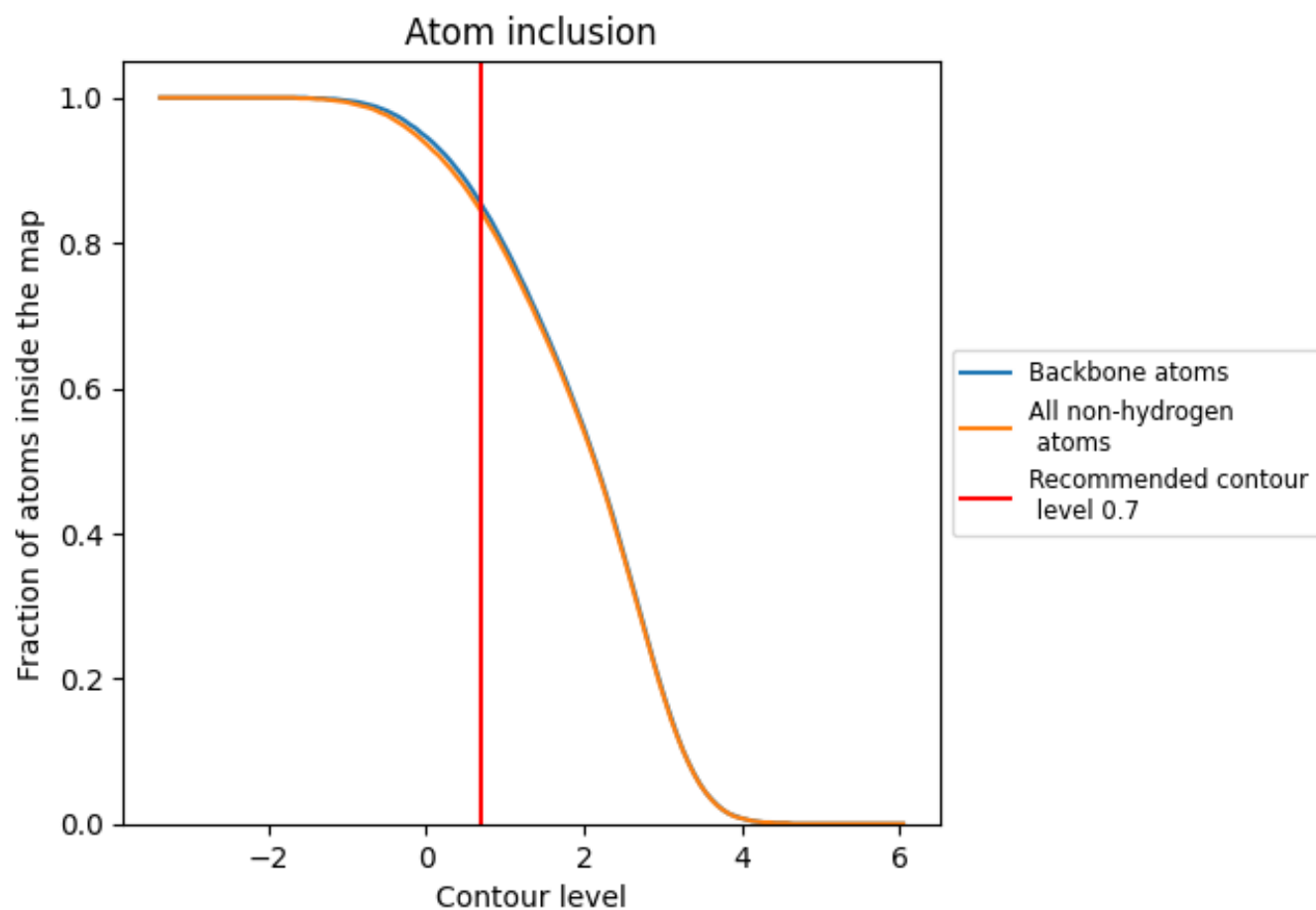
This section was not generated.

8.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.7).

8.4 Atom inclusion [i](#)



At the recommended contour level, 85% of all backbone atoms, 84% of all non-hydrogen atoms, are inside the map.

8.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion
All	 0.8430
0	 0.9870
1	 0.9320
2	 0.9500
3	 0.9800
4	 0.9960
5	 0.9390
6	 0.9450
7	 0.6570
8	 0.9610
9	 0.9140
A	 0.0350
A0	 0.9210
A1	 0.8800
A2	 0.8720
A3	 0.8880
A4	 0.9240
A5	 0.9240
A6	 0.8840
A7	 0.8680
A8	 0.8670
A9	 0.8990
AA	 0.9710
AB	 0.9290
AC	 0.8840
AD	 0.5880
AE	 0.9220
AF	 0.9740
AG	 0.9890
AH	 0.9860
AI	 0.9060
AJ	 0.8750
AK	 0.4640
AL	 0.9930
AM	 0.8680



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Chain	Atom inclusion
AN	 0.9960
AO	 0.9960
AP	 0.9440
AQ	 0.9150
AR	 0.6480
AS	 0.9350
AT	 0.9380
AU	 0.9920
AV	 0.9770
AW	 0.9480
AX	 0.9140
AY	 0.5600
AZ	 0.9840
Aa	 0.9620
Ab	 0.9950
Ac	 0.9850
Ad	 0.9230
Ae	 0.9540
Af	 0.5750
Ag	 0.9410
Ah	 0.9090
Ai	 0.9630
Aj	 0.9860
Ak	 0.8350
Al	 0.9990
Am	 0.0390
An	 0.9690
Ao	 0.9830
Ap	 0.9930
Aq	 1.0000
Ar	 0.8510
As	 0.8630
At	 1.0000
Au	 0.8290
Av	 0.8500
Aw	 0.8580
Ax	 0.8480
Ay	 0.9420
Az	 0.9410
B	 0.0010
B0	 0.8520
B1	 0.8940

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Chain	Atom inclusion
B2	 0.9120
B3	 0.9780
B4	 0.9450
B5	 0.9360
B6	 0.9160
B7	 0.9690
B8	 0.9710
B9	 0.8530
BA	 0.9710
BB	 0.9650
BC	 0.9380
BD	 0.9520
BE	 0.9590
BF	 0.9290
BG	 0.8580
BH	 0.8490
BI	 0.9020
BJ	 0.8920
BK	 0.8870
BL	 0.9070
BM	 0.9100
BN	 0.9240
BO	 0.8550
BP	 0.8640
BQ	 0.8740
BR	 0.8920
BS	 0.8780
BT	 0.8620
BU	 0.9940
BV	 0.8510
BW	 0.8880
BX	 0.8670
BY	 0.8650
BZ	 0.9140
Ba	 0.9350
Bb	 0.9840
Bc	 0.9460
Bd	 0.9390
Be	 0.9530
Bf	 0.9730
Bg	 0.9880
Bh	 0.8470

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Chain	Atom inclusion
Bi	 0.8480
Bj	 0.8930
Bk	 0.8670
Bl	 0.8600
Bm	 0.8980
Bn	 0.8960
Bo	 0.8960
Bp	 0.8430
Bq	 0.8660
Br	 0.8630
Bs	 0.8840
Bt	 0.8230
Bu	 0.8430
Bv	 0.9710
Bw	 0.8480
Bx	 0.8750
By	 0.8220
Bz	 0.8400
C	 0.9620
C0	 0.8400
C1	 0.9320
C2	 0.9310
C3	 0.9630
C4	 0.9490
C5	 0.8340
C6	 0.8450
C7	 0.9690
C8	 0.8690
C9	 0.8480
CA	 0.8880
CB	 0.8610
CC	 0.8600
CD	 0.8900
CE	 0.8880
CF	 0.9100
CG	 0.8700
CH	 0.8680
CI	 0.8570
CJ	 0.8870
CK	 0.8550
CL	 0.8450
CM	 0.9750

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Chain	Atom inclusion
CN	 0.8610
CO	 0.8890
CP	 0.8270
CQ	 0.8470
CR	 0.8950
CS	 0.8920
CT	 0.9820
CU	 0.9380
CV	 0.9350
CW	 0.9180
CX	 0.9650
CY	 0.9530
CZ	 0.8580
Ca	 0.8520
Cb	 0.8800
Cc	 0.8660
Cd	 0.8740
Ce	 0.9060
Cf	 0.9070
Cg	 0.9040
Ch	 0.8640
Ci	 0.8550
Cj	 0.8800
Ck	 1.0000
Cl	 0.9800
Cm	 0.9710
Cn	 0.9670
Co	 0.8690
Cp	 0.8480
Cq	 0.8550
Cr	 0.9740
Cs	 0.8570
Ct	 0.8750
Cu	 0.8400
Cv	 0.8370
Cw	 0.9090
Cx	 0.9180
Cy	 0.9720
Cz	 0.9460
D	 0.9490
D0	 0.7800
D1	 0.9730

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Chain	Atom inclusion
D2	 0.8130
D3	 0.8100
D4	 0.8000
D5	 0.8480
D6	 0.8640
D7	 0.8370
D8	 0.7850
D9	 0.7830
DA	 0.8660
DB	 0.8750
DC	 0.8840
DD	 0.8640
DE	 0.8630
DF	 0.8510
DG	 0.8700
DH	 0.8560
DI	 0.8700
DJ	 0.9700
DK	 0.8660
DL	 0.8610
DM	 0.8310
DN	 0.8530
DO	 0.8820
DP	 0.8870
DQ	 0.9700
DR	 0.9550
DS	 0.9270
DT	 0.9430
DU	 0.9710
DV	 0.9640
DW	 0.8650
DX	 0.8400
DY	 0.9750
DZ	 0.8950
Da	 0.8950
Db	 0.8780
Dc	 0.9110
Dd	 0.9140
De	 0.9050
Df	 0.8680
Dg	 0.8580
Dh	 0.8810

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Chain	Atom inclusion
Di	 0.8760
Dj	 0.8700
Dk	 0.8680
Dl	 0.9960
Dm	 0.8720
Dn	 0.8770
Do	 0.8480
Dp	 0.8620
Dq	 0.9240
Dr	 0.9230
Ds	 0.9860
Dt	 0.9570
Du	 0.9300
Dv	 0.9470
Dw	 0.9690
Dx	 0.9870
Dy	 0.8440
Dz	 0.8420
E	 0.9450
E0	 0.8370
E1	 0.8430
E2	 0.7960
E3	 0.7850
E4	 0.8180
E5	 0.8450
E6	 0.8000
E7	 0.8190
E8	 0.9680
E9	 0.8030
EA	 0.8100
EB	 0.7690
EC	 0.7670
ED	 0.9750
EE	 0.7770
EF	 0.8120
EG	 0.7570
EH	 0.7800
EI	 0.8600
EJ	 0.8540
EK	 0.9520
EL	 0.9130
EM	 0.8880

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Chain	Atom inclusion
EN	 0.8940
EO	 0.9490
EP	 0.9420
EQ	 0.7620
ER	 0.7630
ES	 0.9490
ET	 0.8390
EU	 0.8310
EV	 0.8040
EW	 0.8660
EX	 0.8420
EY	 0.8570
EZ	 0.8280
Ea	 0.8120
Eb	 0.8260
Ec	 0.8110
Ed	 0.7730
Ee	 0.7950
Ef	 0.9780
Eg	 0.7760
Eh	 0.8210
Ei	 0.7650
Ej	 0.7740
Ek	 0.8650
El	 0.8820
Em	 0.9690
En	 0.9190
Eo	 0.9050
Ep	 0.9080
Eq	 0.9410
Er	 0.9530
Es	 0.7870
Et	 0.7770
Eu	 0.9600
Ev	 0.8350
Ew	 0.8610
Ex	 0.8340
Ey	 0.8710
Ez	 0.8710
F	 0.8940
F0	 0.9270
F1	 0.7770

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Chain	Atom inclusion
F2	 0.9630
F3	 0.7720
F4	 0.7670
F5	 0.7350
F6	 0.7340
F7	 0.8590
F8	 0.8350
F9	 0.9620
FA	 0.8110
FB	 0.8110
FC	 0.8860
FD	 0.8690
FE	 0.9700
FF	 0.9110
FG	 0.8910
FH	 0.9000
FI	 0.9560
FJ	 0.9580
FK	 0.7770
FL	 0.7720
FM	 0.9620
FN	 0.8430
FO	 0.7980
FP	 0.8210
FQ	 0.8390
FR	 0.8560
FS	 0.8420
FT	 0.7820
FU	 0.7760
FV	 0.7750
FW	 0.8390
FX	 0.7710
FY	 0.7800
FZ	 0.9640
Fa	 0.7890
Fb	 0.8150
Fc	 0.7630
Fd	 0.7900
Fe	 0.8640
Ff	 0.8600
Fg	 0.9550
Fh	 0.9130

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Chain	Atom inclusion
Fi	 0.9020
Fj	 0.8930
Fk	 0.9380
Fl	 0.9500
Fm	 0.7320
Fn	 0.7500
Fo	 0.9850
Fp	 0.8340
Fq	 0.7750
Fr	 0.7830
Fs	 0.8480
Ft	 0.8460
Fu	 0.8510
Fv	 0.8190
Fw	 0.8120
Fx	 0.7980
Fy	 0.8210
Fz	 0.7660
G	 0.0370
G0	 0.8200
G1	 0.8780
G2	 0.8850
G3	 0.9490
G4	 0.9450
G5	 0.9240
G6	 0.9300
G7	 0.9370
G8	 0.9360
G9	 0.8250
GA	 0.8730
GB	 0.8700
GC	 0.9400
GD	 0.9240
GE	 0.7690
GF	 0.7750
GG	 0.9660
GH	 0.8470
GI	 0.8340
GJ	 0.8550
GK	 0.8740
GL	 0.8910
GM	 0.8630

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Chain	Atom inclusion
GN	 0.8180
GO	 0.7750
GP	 0.8210
GQ	 0.8470
GR	 0.8020
GS	 0.8040
GT	 0.9780
GU	 0.7920
GV	 0.8460
GW	 0.8000
GX	 0.8030
GY	 0.9020
GZ	 0.8810
Ga	 0.9640
Gb	 0.9210
Gc	 0.8850
Gd	 0.9160
Ge	 0.9580
Gf	 0.9520
Gg	 0.7560
Gh	 0.7820
Gi	 0.9560
Gj	 0.8700
Gk	 0.8330
Gl	 0.8340
Gm	 0.8580
Gn	 0.8530
Go	 0.8810
Gp	 0.8390
Gq	 0.8340
Gr	 0.8380
Gs	 0.8450
Gt	 0.7910
Gu	 0.8140
Gv	 0.9680
Gw	 0.8130
Gx	 0.8390
Gy	 0.7940
Gz	 0.8120
H	 0.7080
H0	 0.9280
H1	 0.9050

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Chain	Atom inclusion
H2	 0.9130
H3	 0.9470
H4	 0.9530
H5	 0.8330
H6	 0.8290
H7	 0.9590
H8	 0.5490
H9	 0.9100
HA	 0.9670
HB	 0.8930
HC	 0.8760
HD	 0.8810
HE	 0.9020
HF	 0.9330
HG	 0.9150
HH	 0.8890
HI	 0.8780
HJ	 0.8410
HK	 0.8880
HL	 0.8540
HM	 0.8590
HN	 0.9670
HO	 0.8440
HP	 0.8730
HQ	 0.8470
HR	 0.8360
HS	 0.9420
HT	 0.9260
HU	 0.9610
HV	 0.9660
HW	 0.9480
HX	 0.9630
HY	 0.9550
HZ	 0.9470
Ha	 0.8440
Hb	 0.8150
Hc	 0.9860
Hd	 0.9960
He	 0.8760
Hf	 0.8710
Hg	 0.8540
Hh	 0.8910

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Chain	Atom inclusion
Hi	 0.8930
Hj	 0.8700
Hk	 0.8350
Hl	 0.8290
Hm	 0.8490
Hn	 0.8770
Ho	 0.8590
Hp	 0.8490
Hq	 0.9740
Hr	 0.8550
Hs	 0.8760
Ht	 0.8280
Hu	 0.8410
Hv	 0.9240
Hw	 0.8950
Hx	 0.9080
Hy	 0.9760
Hz	 0.9270
I	 0.6860
I0	 0.8860
I1	 0.8100
I2	 0.7740
I3	 0.7860
I4	 0.8600
I5	 0.8460
I6	 0.8880
I7	 0.9640
I8	 0.9100
I9	 0.8970
IA	 0.9980
IB	 0.9700
IC	 0.9460
ID	 0.8210
IE	 0.8110
IF	 0.8240
IG	 0.8620
IH	 0.8820
II	 0.8440
IJ	 0.7940
IK	 0.8040
IL	 0.8100
IM	 0.8210

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Chain	Atom inclusion
IN	 0.8050
IO	 0.8440
IP	 0.9680
IQ	 0.8030
IR	 0.8320
IS	 0.8210
IT	 0.8040
IU	 0.8960
IV	 0.8790
IW	 0.8900
IX	 0.9560
IY	 0.9290
IZ	 0.8840
Ia	 0.9110
Ib	 0.9280
Ic	 0.9440
Id	 0.7810
Ie	 0.7870
If	 0.9730
Ig	 0.5020
Ih	 0.9450
Ii	 0.9830
Ij	 0.9890
Ik	 0.9920
Il	 0.9050
Im	 0.8330
In	 0.8110
Io	 0.8040
Ip	 0.8330
Iq	 0.8640
Ir	 0.8460
Is	 0.8010
It	 0.7880
Iu	 0.7830
Iv	 0.8180
Iw	 0.7810
Ix	 0.7810
Iy	 0.9630
Iz	 0.7760
J	 0.6890
J0	 0.7880
J1	 0.8010

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Chain	Atom inclusion
J2	 0.8010
J3	 0.8020
J4	 0.8350
J5	 0.8080
J6	 0.7560
J7	 0.9720
J8	 0.7950
J9	 0.8300
JA	 0.9200
JB	 0.9370
JC	 0.7610
JD	 0.7550
JE	 0.9650
JF	 0.3990
JG	 0.9650
JH	 0.9220
JI	 0.9960
JJ	 0.9920
JK	 0.9240
JL	 0.8150
JM	 0.7830
JN	 0.8010
JO	 0.8300
JP	 0.8400
JQ	 0.8390
JR	 0.8060
JS	 0.8140
JT	 0.7880
JU	 0.7980
JV	 0.7820
JW	 0.7940
JX	 0.9620
JY	 0.7820
JZ	 0.7990
Ja	 0.7640
Jb	 0.7670
Jc	 0.8500
Jd	 0.8500
Je	 0.9500
Jf	 0.9620
Jg	 0.9260
Jh	 0.9060

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Chain	Atom inclusion
Ji	 0.8850
Jj	 0.9150
Jk	 0.9160
Jl	 0.8080
Jm	 0.7760
Jn	 0.9830
Jo	 0.5120
Jp	 0.9610
Jq	 0.9470
Jr	 0.9860
Js	 0.9950
Jt	 0.9850
Ju	 0.8460
Jv	 0.8090
Jw	 0.8180
Jx	 0.8540
Jy	 0.8570
Jz	 0.8790
K	 0.6910
K0	 0.8200
K1	 0.9800
K2	 0.9400
K3	 0.8320
K4	 0.8160
K5	 0.7860
K6	 0.8560
K7	 0.8840
K8	 0.8480
K9	 0.8020
KA	 0.7560
KB	 0.9040
KC	 0.8720
KD	 0.9110
KE	 0.9680
KF	 0.9540
KG	 0.9090
KH	 0.9210
KI	 0.9400
KJ	 0.9420
KK	 0.7990
KL	 0.7740
KM	 0.9580

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Chain	Atom inclusion
KN	 0.5700
KO	 0.9840
KP	 0.9270
KQ	 0.9850
KR	 0.9980
KS	 0.9310
KT	 0.8370
KU	 0.8540
KV	 0.8310
KW	 0.8790
KX	 0.8630
KY	 0.8350
KZ	 0.8120
Ka	 0.7840
Kb	 0.8190
Kc	 0.8340
Kd	 0.8180
Ke	 0.8110
Kf	 0.9800
Kg	 0.8080
Kh	 0.8680
Ki	 0.8190
Kj	 0.8100
Kk	 0.9010
Kl	 0.8860
Km	 0.9490
Kn	 0.9720
Ko	 0.9280
Kp	 0.8800
Kq	 0.8960
Kr	 0.9440
Ks	 0.9680
Kt	 0.7960
Ku	 0.7820
Kv	 0.9690
Kw	 0.6950
Kx	 0.9590
Ky	 0.9820
Kz	 0.9970
L	 0.9570
L0	 0.9480
L1	 0.9480

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Chain	Atom inclusion
L2	 0.8100
L3	 0.7860
L4	 0.9680
L5	 0.5990
L6	 0.9960
L7	 0.9660
L8	 0.9850
L9	 0.9940
LA	 0.8090
LB	 0.8290
LC	 0.7720
LD	 0.7760
LE	 0.9830
LF	 0.7860
LG	 0.8080
LH	 0.7770
LI	 0.7830
LJ	 0.8700
LK	 0.8500
LL	 0.9650
LM	 0.9670
LN	 0.9270
LO	 0.9100
LP	 0.8910
LQ	 0.9490
LR	 0.9590
LS	 0.7830
LT	 0.7720
LU	 0.9650
LV	 0.4640
LW	 1.0000
LX	 0.9410
LY	 0.9960
LZ	 0.9960
La	 0.9240
Lb	 0.8720
Lc	 0.8220
Ld	 0.8080
Le	 0.8660
Lf	 0.8430
Lg	 0.8810
Lh	 0.8370

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Chain	Atom inclusion
Li	 0.8480
Lj	 0.8500
Lk	 0.8320
Ll	 0.7910
Lm	 0.7990
Ln	 0.9660
Lo	 0.8150
Lp	 0.8270
Lq	 0.7840
Lr	 0.7620
Ls	 0.8740
Lt	 0.8900
Lu	 0.9100
Lv	 0.9710
Lw	 0.9550
Lx	 0.9300
Ly	 0.9360
Lz	 0.9670
M	 0.7360
M0	 0.7780
M1	 0.8800
M2	 0.8700
M3	 0.9220
M4	 0.9590
M5	 0.9290
M6	 0.9030
M7	 0.9100
M8	 0.9290
M9	 0.9540
MA	 0.8680
MB	 0.8520
MC	 0.8490
MD	 0.8970
ME	 0.9050
MF	 0.8620
MG	 0.8260
MH	 0.7920
MI	 0.8250
MJ	 0.8620
MK	 0.8530
ML	 0.8470
MM	 0.9620

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Chain	Atom inclusion
MN	 0.8480
MO	 0.8770
MP	 0.8340
MQ	 0.8090
MR	 0.9100
MS	 0.9060
MT	 0.8640
MU	 0.9450
MV	 0.9100
MW	 0.8750
MX	 0.9070
MY	 0.9430
MZ	 0.9500
Ma	 0.8040
Mb	 0.7860
Mc	 0.9860
Md	 0.4910
Me	 0.9910
Mf	 0.9150
Mg	 0.9980
Mh	 0.9880
Mi	 0.9610
Mj	 0.8570
Mk	 0.8140
ML	 0.7900
Mm	 0.8410
Mn	 0.8580
Mo	 0.8300
Mp	 0.8190
Mq	 0.7920
Mr	 0.8190
Ms	 0.8270
Mt	 0.7810
Mu	 0.8120
Mv	 0.9670
Mw	 0.8110
Mx	 0.8230
My	 0.8120
Mz	 0.7970
N	 0.9920
N0	 0.8990
N1	 0.8650

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Chain	Atom inclusion
N2	 0.8500
N3	 0.8680
N4	 0.9880
N5	 0.8500
N6	 0.8680
N7	 0.8210
N8	 0.8560
N9	 0.9030
NA	 0.7610
NB	 0.9690
NC	 0.3870
ND	 0.9760
NE	 0.9680
NF	 0.9910
NG	 0.9960
NH	 0.9530
NI	 0.9010
NJ	 0.8740
NK	 0.8700
NL	 0.9150
NM	 0.9060
NN	 0.9110
NO	 0.8820
NP	 0.8840
NQ	 0.8820
NR	 0.8770
NS	 0.8490
NT	 0.8850
NU	 0.9780
NV	 0.8660
NW	 0.8770
NX	 0.8420
NY	 0.8680
NZ	 0.9160
Na	 0.8990
Nb	 0.9210
Nc	 0.9800
Nd	 0.9470
Ne	 0.9410
Nf	 0.9420
Ng	 0.9760
Nh	 0.9630

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Chain	Atom inclusion
Ni	 0.8680
Nj	 0.8590
Nk	 0.9670
Nl	 0.6240
Nm	 0.9930
Nn	 0.9750
No	 0.9750
Np	 0.9870
Nq	 0.9600
Nr	 0.8630
Ns	 0.8690
Nt	 0.8630
Nu	 0.8880
Nv	 0.8780
Nw	 0.8770
Nx	 0.8770
Ny	 0.8440
Nz	 0.8510
O	 0.8600
O0	 0.8820
O1	 0.9060
O2	 0.8830
O3	 0.9310
O4	 0.9330
O5	 0.9050
O6	 0.8760
O7	 0.8590
O8	 0.8820
O9	 0.8920
OA	 0.9800
OB	 0.9670
OC	 0.9440
OD	 0.9210
OE	 0.8930
OF	 0.9570
OG	 0.9740
OH	 0.8650
OI	 0.8570
OJ	 0.9640
OK	 0.7410
OL	 0.9910
OM	 0.9100

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Chain	Atom inclusion
ON	 0.9980
OO	 0.9940
OP	 0.9460
OQ	 0.9130
OR	 0.8880
OS	 0.8700
OT	 0.9150
OU	 0.9330
OV	 0.9270
OW	 0.9060
OX	 0.8790
OY	 0.8790
OZ	 0.9030
Oa	 0.8560
Ob	 0.8650
Oc	 0.9880
Od	 0.8650
Oe	 0.8780
Of	 0.8530
Og	 0.8260
Oh	 0.9330
Oi	 0.9250
Oj	 0.9920
Ok	 0.9930
Ol	 0.9610
Om	 0.9500
On	 0.9370
Oo	 0.9720
Op	 0.9810
Oq	 0.8720
Or	 0.8680
Os	 0.9690
Ot	 0.7700
Ou	 0.9700
Ov	 0.9620
Ow	 0.9950
Ox	 0.9910
Oy	 0.9730
Oz	 0.9040
P	 0.8970
P0	 0.8750
P1	 0.9750

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Chain	Atom inclusion
P2	 0.6510
P3	 0.9530
P4	 0.9840
P5	 0.9600
P6	 0.9970
P7	 0.9720
P8	 0.8770
P9	 0.8720
PA	 0.8630
PB	 0.9920
PC	 0.8570
PD	 0.8800
PE	 0.8690
PF	 0.8530
PG	 0.9370
PH	 0.9240
PI	 0.9890
PJ	 0.9840
PK	 0.9690
PL	 0.9470
PM	 0.9610
PN	 0.9690
PO	 0.9860
PP	 0.8570
PQ	 0.8410
PR	 0.9670
PS	 0.6680
PT	 0.9170
PU	 0.9670
PV	 0.9890
PW	 0.9980
PX	 0.9350
PY	 0.8910
PZ	 0.8540
Pa	 0.8650
Pb	 0.8890
Pc	 0.8930
Pd	 0.9120
Pe	 0.8540
Pf	 0.8710
Pg	 0.8530
Ph	 0.8850

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Chain	Atom inclusion
Pi	 0.8470
Pj	 0.8680
Pk	 0.9600
Pl	 0.8600
Pm	 0.8650
Pn	 0.8200
Po	 0.8540
Pp	 0.9130
Pq	 0.9030
Pr	 0.8820
Ps	 0.9760
Pt	 0.9210
Pu	 0.9390
Pv	 0.9410
Pw	 0.9740
Px	 0.9580
Py	 0.8540
Pz	 0.8450
Q	 0.9000
Q0	 0.5840
Q1	 0.9670
Q2	 0.9260
Q3	 0.9020
Q4	 0.8950
Q5	 0.9480
Q6	 0.9570
Q7	 0.7820
Q8	 0.7790
Q9	 0.9640
QA	 0.8890
QB	 0.8850
QC	 0.8780
QD	 0.8410
QE	 0.8380
QF	 0.8540
QG	 0.8730
QH	 0.8450
QI	 0.8430
QJ	 0.9800
QK	 0.8670
QL	 0.8920
QM	 0.8080

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Chain	Atom inclusion
QN	 0.8590
QO	 0.9260
QP	 0.9070
QQ	 0.9600
QR	 0.9750
QS	 0.9330
QT	 0.9310
QU	 0.9320
QV	 0.9660
QW	 0.9710
QX	 0.8410
QY	 0.8400
QZ	 0.9670
Qa	 0.6210
Qb	 0.9860
Qc	 0.8580
Qd	 0.9910
Qe	 0.9800
Qf	 0.9400
Qg	 0.8330
Qh	 0.8260
Qi	 0.8030
Qj	 0.8210
Qk	 0.8570
Ql	 0.8620
Qm	 0.8060
Qn	 0.8100
Qo	 0.8290
Qp	 0.8390
Qq	 0.7900
Qr	 0.8070
Qs	 0.9660
Qt	 0.7980
Qu	 0.7950
Qv	 0.7750
Qw	 0.7840
Qx	 0.8840
Qy	 0.8670
Qz	 0.8990
R	 0.9120
R0	 0.9400
R1	 0.9640

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Chain	Atom inclusion
R2	 0.8450
R3	 0.8590
R4	 0.8310
R5	 0.8120
R6	 0.9170
R7	 0.8920
R8	 0.8940
R9	 0.9630
RA	 0.9620
RB	 0.9650
RC	 0.9840
RD	 0.9870
RE	 0.9430
RF	 0.8610
RG	 0.8270
RH	 0.7730
RI	 0.8250
RJ	 0.8430
RK	 0.8920
RL	 0.8400
RM	 0.8250
RN	 0.8310
RO	 0.8300
RP	 0.7840
RQ	 0.8040
RR	 0.9730
RS	 0.7850
RT	 0.7900
RU	 0.7630
RV	 0.7820
RW	 0.8630
RX	 0.8650
RY	 0.9260
RZ	 0.9660
Ra	 0.9450
Rb	 0.9100
Rc	 0.9230
Rd	 0.9550
Re	 0.9480
Rf	 0.8000
Rg	 0.7880
Rh	 0.9460

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Chain	Atom inclusion
Ri	0.5310
Rj	0.9530
Rk	0.9960
Rl	0.9780
Rm	0.9730
Rn	0.9210
Ro	0.8650
Rp	0.8560
Rq	0.8650
Rr	0.9060
Rs	0.9260
Rt	0.8840
Ru	0.8040
Rv	0.8080
Rw	0.8150
Rx	0.8550
Ry	0.8260
Rz	0.8450
S	0.9720
S0	0.7930
S1	0.8290
S2	0.8910
S3	0.8290
S4	0.8050
S5	0.8230
S6	0.8190
S7	0.7780
S8	0.7890
S9	0.9560
SA	0.9130
SB	0.9460
SC	0.9740
SD	0.9630
SE	0.7870
SF	0.8010
SG	0.9680
SH	0.6810
SI	0.9660
SJ	0.9980
SK	0.9970
SL	0.9910
SM	0.9330

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Chain	Atom inclusion
SN	 0.8530
SO	 0.8280
SP	 0.7960
SQ	 0.8270
SR	 0.8540
SS	 0.8540
ST	 0.7930
SU	 0.8240
SV	 0.8230
SW	 0.8310
SX	 0.8040
SY	 0.7960
SZ	 0.9380
Sa	 0.7800
Sb	 0.8120
Sc	 0.7620
Sd	 0.7830
Se	 0.8860
Sf	 0.8650
Sg	 0.8820
Sh	 0.9560
Si	 0.9230
Sj	 0.8890
Sk	 0.9130
Sl	 0.9630
Sm	 0.9440
Sn	 0.8190
So	 0.7970
Sp	 0.9720
Sq	 0.3580
Sr	 0.9940
Ss	 0.8940
St	 0.9870
Su	 0.9840
Sv	 0.9300
Sw	 0.8540
Sx	 0.7800
Sy	 0.7810
Sz	 0.8320
T	 0.9410
T0	 0.9100
T1	 0.9820

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Chain	Atom inclusion
T2	 0.9850
T3	 0.9950
T4	 0.9370
T5	 0.8950
T6	 0.8640
T7	 0.8690
T8	 0.8590
T9	 0.8640
TA	 0.7980
TB	 0.7530
TC	 0.7730
TD	 0.8350
TE	 0.8470
TF	 0.9070
TG	 0.9590
TH	 0.9400
TI	 0.9240
TJ	 0.9040
TK	 0.9320
TL	 0.9320
TM	 0.7830
TN	 0.7950
TO	 0.9650
TP	 0.6460
TQ	 0.9570
TR	 0.9480
TS	 0.9960
TT	 0.9950
TU	 0.9390
TV	 0.8310
TW	 0.8380
TX	 0.8540
TY	 0.8940
TZ	 0.8900
Ta	 0.8670
Tb	 0.8130
Tc	 0.8090
Td	 0.8170
Te	 0.8330
Tf	 0.8240
Tg	 0.8210
Th	 0.9850

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Chain	Atom inclusion
Ti	 0.8090
Tj	 0.8570
Tk	 0.8350
Tl	 0.7770
Tm	 0.9100
Tn	 0.8810
To	 0.9020
Tp	 0.9750
Tq	 0.9300
Tr	 0.8960
Ts	 0.9100
Tt	 0.9560
Tu	 0.9570
Tv	 0.7840
Tw	 0.7610
Tx	 0.9470
Ty	 0.7090
Tz	 0.9000
U	 0.9910
U0	 0.9970
U1	 0.9490
U2	 0.9490
U3	 0.9780
U4	 0.8910
U5	 0.9000
U6	 0.9740
U7	 0.6670
U8	 0.9820
U9	 0.9610
UA	 0.8680
UB	 0.8740
UC	 0.8730
UD	 0.8860
UE	 0.8560
UF	 0.8880
UG	 0.9730
UH	 0.8440
UI	 0.8550
UJ	 0.8430
UK	 0.8660
UL	 0.8910
UM	 0.9150

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Chain	Atom inclusion
UN	 0.9440
UO	 0.9770
UP	 0.9640
UQ	 0.9380
UR	 0.9330
US	 0.9550
UT	 0.9730
UU	 0.8830
UV	 0.8610
UW	 0.9610
UX	 0.6570
UY	 0.9910
UZ	 0.9850
Ua	 1.0000
Ub	 0.9960
Uc	 0.9130
Ud	 0.9020
Ue	 0.8870
Uf	 0.8800
Ug	 0.8970
Uh	 0.9040
Ui	 0.9190
Uj	 0.8910
Uk	 0.8800
Ul	 0.8520
Um	 0.8960
Un	 0.8970
Uo	 0.8940
Up	 0.9920
Uq	 0.8730
Ur	 0.8930
Us	 0.8410
Ut	 0.8880
Uu	 0.9070
Uv	 0.9130
Uw	 0.9660
Ux	 0.9830
Uy	 0.9610
Uz	 0.9510
V	 0.9960
V0	 0.9380
V1	 0.8010

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Chain	Atom inclusion
V2	 0.7880
V3	 0.9030
V4	 0.8990
V5	 0.8820
V6	 0.9580
V7	 0.8940
V8	 0.8900
V9	 0.8980
VA	 0.9970
VB	 0.8890
VC	 0.8950
VD	 0.8400
VE	 0.8600
VF	 0.8870
VG	 0.8910
VH	 0.8970
VI	 0.8860
VJ	 0.8860
VK	 0.8770
VL	 0.8940
VM	 0.8650
VN	 0.8830
VO	 0.9770
VP	 0.8640
VQ	 0.8720
VR	 0.8130
VS	 0.8410
VT	 0.8920
VU	 0.9260
VV	 0.8760
VW	 0.9750
VX	 0.9440
VY	 0.9330
VZ	 0.9410
Va	 0.9780
Vb	 0.9720
Vc	 0.8630
Vd	 0.8880
Ve	 0.9790
Vf	 0.5960
Vg	 1.0000
Vh	 0.9870

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Chain	Atom inclusion
Vi	 1.0000
Vj	 0.9690
Vk	 0.8910
Vl	 0.8280
Vm	 0.8180
Vn	 0.8240
Vo	 0.8680
Vp	 0.9000
Vq	 0.8340
Vr	 0.7850
Vs	 0.7590
Vt	 0.7790
Vu	 0.8320
Vv	 0.8180
Vw	 0.7970
Vx	 0.9680
Vy	 0.7980
Vz	 0.8380
W	 0.9920
W0	 0.7590
W1	 0.7880
W2	 0.7670
W3	 0.7900
W4	 0.7420
W5	 0.8000
W6	 0.9740
W7	 0.7410
W8	 0.7480
W9	 0.7460
WA	 0.9440
WB	 0.7960
WC	 0.7850
WD	 0.9750
WE	 0.5070
WF	 0.9810
WG	 0.9320
WH	 0.9960
WI	 0.9880
WJ	 0.9810
WK	 0.7930
WL	 0.8130
WM	 0.7860

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Chain	Atom inclusion
WN	 0.8140
WO	 0.8580
WP	 0.8010
WQ	 0.7840
WR	 0.7710
WS	 0.8010
WT	 0.8240
WU	 0.7670
WV	 0.7930
WW	 0.9520
WX	 0.7680
WY	 0.7780
WZ	 0.7420
Wa	 0.7490
Wb	 0.8430
Wc	 0.8350
Wd	 0.8550
We	 0.9480
Wf	 0.8820
Wg	 0.8630
Wh	 0.8640
Wi	 0.9150
Wj	 0.9430
Wk	 0.7700
Wl	 0.7670
Wm	 0.9860
Wn	 0.3690
Wo	 0.9920
Wp	 0.9910
Wq	 0.9870
Wr	 0.9990
Ws	 0.9570
Wt	 0.8160
Wu	 0.7830
Wv	 0.8010
Ww	 0.8120
Wx	 0.8370
Wy	 0.8470
Wz	 0.8130
X	 0.9720
X0	 0.8280
X1	 0.8980

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Chain	Atom inclusion
X2	 0.8540
X3	 0.8540
X4	 0.8630
X5	 0.9100
X6	 0.9000
X7	 0.8460
X8	 0.8110
X9	 0.8120
XA	 0.8890
XB	 0.8750
XC	 0.9390
XD	 0.9560
XE	 0.9260
XF	 0.8690
XG	 0.8980
XH	 0.9220
XI	 0.9260
XJ	 0.7900
XK	 0.7580
XL	 0.9740
XM	 0.6710
XN	 0.9330
XO	 0.9490
XP	 0.9930
XQ	 0.9930
XR	 0.9850
XS	 0.8470
XT	 0.8020
XU	 0.7940
XV	 0.8220
XW	 0.8440
XX	 0.8710
XY	 0.8190
XZ	 0.8020
Xa	 0.7950
Xb	 0.8130
Xc	 0.7460
Xd	 0.7950
Xe	 0.9790
Xf	 0.7710
Xg	 0.7820
Xh	 0.7540

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Chain	Atom inclusion
Xi	 0.7650
Xj	 0.8740
Xk	 0.8650
Xl	 0.9410
Xm	 0.9740
Xn	 0.9410
Xo	 0.8990
Xp	 0.8940
Xq	 0.9430
Xr	 0.9520
Xs	 0.8150
Xt	 0.7890
Xu	 0.9500
Xv	 0.5660
Xw	 0.9860
Xx	 0.9100
Xy	 0.9630
Xz	 0.9820
Y	 0.9770
Y0	 0.8350
Y1	 0.7890
Y2	 0.7640
Y3	 0.9660
Y4	 0.5170
Y5	 0.9650
Y6	 0.9470
Y7	 0.9920
Y8	 0.9880
Y9	 0.9610
YA	 0.8530
YB	 0.8360
YC	 0.8350
YD	 0.9750
YE	 0.8500
YF	 0.8730
YG	 0.8440
YH	 0.8150
YI	 0.9070
YJ	 0.8970
YK	 0.9410
YL	 0.9620
YM	 0.9500

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Chain	Atom inclusion
YN	 0.9170
YO	 0.9340
YP	 0.9600
YQ	 0.9680
YR	 0.7920
YS	 0.7900
YT	 0.9730
YU	 0.5560
YV	 0.9650
YW	 0.9790
YX	 0.9920
YY	 0.9810
YZ	 0.9420
Ya	 0.8050
Yb	 0.8190
Yc	 0.8140
Yd	 0.8280
Ye	 0.8540
Yf	 0.8350
Yg	 0.8260
Yh	 0.8050
Yi	 0.7800
Yj	 0.8110
Yk	 0.7950
Yl	 0.7840
Ym	 0.9730
Yn	 0.7990
Yo	 0.8000
Yp	 0.7770
Yq	 0.7950
Yr	 0.8690
Ys	 0.8730
Yt	 0.9020
Yu	 0.9660
Yv	 0.9250
Yw	 0.8950
Yx	 0.8930
Yy	 0.9350
Yz	 0.9500
Z	 0.9980
Z0	 0.7810
Z1	 0.8750

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Chain	Atom inclusion
Z2	 0.8290
Z3	 0.9660
Z4	 0.9070
Z5	 0.8770
Z6	 0.8890
Z7	 0.9450
Z8	 0.9560
Z9	 0.7700
ZA	 0.7870
ZB	 0.7900
ZC	 0.8570
ZD	 0.8490
ZE	 0.8500
ZF	 0.8170
ZG	 0.7850
ZH	 0.8290
ZI	 0.8180
ZJ	 0.8000
ZK	 0.8200
ZL	 0.9870
ZM	 0.7720
ZN	 0.8070
ZO	 0.7740
郑	 0.7750
ZQ	 0.8420
ZR	 0.8580
ZS	 0.9260
ZT	 0.9640
ZU	 0.9460
ZV	 0.9020
ZW	 0.9060
ZX	 0.9320
ZY	 0.9290
ZZ	 0.8080
Za	 0.7770
Zb	 0.9730
Zc	 0.5490
Zd	 0.9880
Ze	 0.9580
Zf	 0.9960
Zg	 0.9950
Zh	 0.8980

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Chain	Atom inclusion
Zi	 0.8170
Zj	 0.8210
Zk	 0.7960
Zl	 0.8560
Zm	 0.8730
Zn	 0.8530
Zo	 0.8310
Zp	 0.7680
Zq	 0.8160
Zr	 0.8510
Zs	 0.7950
Zt	 0.7990
Zu	 0.9660
Zv	 0.8060
Zw	 0.8430
Zx	 0.8230
Zy	 0.7820
Zz	 0.8950
a	 0.1980
a0	 0.9520
a1	 0.8370
a2	 0.8460
a3	 0.9830
a4	 0.8730
a5	 0.8680
a6	 0.8360
a7	 0.8480
a8	 0.9260
a9	 0.9010
aA	 0.9860
aB	 0.6000
aC	 0.9900
aD	 0.9820
aE	 0.9720
aF	 0.9800
aG	 0.9430
aH	 0.8150
aI	 0.8190
aJ	 0.7690
aK	 0.8220
aL	 0.8490
aM	 0.8510

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Chain	Atom inclusion
aN	 0.7940
aO	 0.7980
aP	 0.7590
aQ	 0.8210
aR	 0.7830
aS	 0.8000
aT	 0.9680
aU	 0.7640
aV	 0.7800
aW	 0.7650
aX	 0.7860
aY	 0.8640
aZ	 0.8820
aa	 0.9380
ab	 0.9420
ac	 0.9230
ad	 0.8930
ae	 0.9030
af	 0.9300
ag	 0.9550
ah	 0.7700
ai	 0.7570
aj	 0.9410
ak	 0.3300
al	 0.9650
am	 0.8720
an	 0.9940
ao	 0.9720
ap	 0.9410
aq	 0.8820
ar	 0.8680
as	 0.8910
at	 0.8970
au	 0.9010
av	 0.8810
aw	 0.8640
ax	 0.8280
ay	 0.8350
az	 0.8710
b	 0.9480
b0	 0.8560
b1	 0.8950

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Chain	Atom inclusion
b2	 0.8990
b3	 0.9120
b4	 0.9160
b5	 0.9020
b6	 0.8600
b7	 0.8550
b8	 0.8960
b9	 0.8450
bA	 0.9720
bB	 0.9390
bC	 0.9150
bD	 0.9350
bE	 0.9670
bF	 0.9600
bG	 0.8240
bH	 0.8260
bI	 0.9470
bJ	 0.6580
bK	 0.8990
bL	 0.9650
bM	 0.9940
bN	 0.9670
bO	 0.9280
bP	 0.8750
bQ	 0.8550
bR	 0.8290
bS	 0.8770
bT	 0.8800
bU	 0.8860
bV	 0.8590
bW	 0.8320
bX	 0.8480
bY	 0.8440
bZ	 0.8180
ba	 0.8330
bb	 0.9840
bc	 0.8280
bd	 0.8430
be	 0.8170
bf	 0.8250
bg	 0.8970
bh	 0.8920

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Chain	Atom inclusion
bi	 0.9600
bj	 0.9730
bk	 0.9480
bl	 0.9370
bm	 0.9320
bn	 0.9630
bo	 0.9620
bp	 0.8280
bq	 0.8180
br	 0.9800
bs	 0.5970
bt	 0.9720
bu	 0.9790
bv	 0.9840
bw	 0.9860
bx	 0.9470
by	 0.9170
bz	 0.8910
c	 0.9600
c0	 0.8590
c1	 0.0500
c2	 1.0000
c3	 0.9940
c4	 0.9930
c5	 1.0000
c6	 0.9990
c7	 0.8600
c8	 0.8380
c9	 0.8560
cA	 0.6390
cB	 0.8410
cC	 0.8630
cD	 0.8530
cE	 0.8370
cF	 0.9550
cG	 0.9450
cH	 0.6140
cI	 0.9670
cJ	 0.9730
cK	 0.9620
cL	 0.9570
cM	 0.9580

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Chain	Atom inclusion
cN	 0.9570
cO	 0.8280
cP	 0.8260
cQ	 0.6790
cR	 0.0580
cS	 0.5730
cT	 0.6480
cU	 0.5950
cV	 0.6100
cW	 0.5520
cX	 0.9070
cY	 0.9060
cZ	 0.8890
ca	 0.9200
cb	 0.9320
cc	 0.9110
cd	 0.8730
ce	 0.8620
cf	 0.8610
cg	 0.8920
ch	 0.8500
ci	 0.8600
cj	 0.7320
ck	 0.8470
cl	 0.8480
cm	 0.8580
cn	 0.8500
co	 0.9520
cp	 0.9460
cq	 0.6150
cr	 0.9720
cs	 0.9590
ct	 0.9510
cu	 0.9560
cv	 0.9620
cw	 0.9550
cx	 0.8390
cy	 0.8470
cz	 0.6640
d	 0.9520
d0	 1.0000
d1	 0.9320

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Chain	Atom inclusion
d2	 0.9320
d3	 0.9120
d4	 0.9510
d5	 0.9710
d6	 0.8520
d7	 0.8070
d8	 0.9690
d9	 0.7420
dA	 0.8870
dB	 0.8960
dC	 0.8280
dD	 0.8070
dE	 0.8420
dF	 0.8600
dG	 0.8210
dH	 0.8160
dI	 0.9750
dJ	 0.8540
dK	 0.8760
dL	 0.8170
dM	 0.8440
dN	 0.8890
dO	 0.8680
dP	 0.9110
dQ	 0.9680
dR	 0.9160
dS	 0.8990
dT	 0.9060
dU	 0.9350
dV	 0.9430
dW	 0.8280
dX	 0.8200
dY	 0.9580
dZ	 0.6390
da	 0.9580
db	 0.9400
dc	 0.9740
dd	 0.9880
de	 0.9640
df	 0.8490
dg	 0.8640
dh	 0.8580

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Chain	Atom inclusion
di	 0.8720
dj	 0.8500
dk	 0.8830
dl	 0.8630
dm	 0.8390
dn	 0.8240
do	 0.8590
dp	 0.8250
dq	 0.8410
dr	 0.9860
ds	 0.8460
dt	 0.8530
du	 0.8200
dv	 0.8410
dw	 0.8960
dx	 0.9020
dy	 0.9770
dz	 0.9780
e	 0.9550
e0	 0.9070
e1	 0.8640
e2	 0.8750
e3	 0.8330
e4	 0.8410
e5	 0.8960
e6	 0.8840
e7	 0.9110
e8	 0.9630
e9	 0.9230
eA	 1.0000
eB	 0.9970
eC	 0.9910
eD	 0.9180
eE	 0.9080
eF	 0.8860
eG	 0.8800
eH	 0.9080
eI	 0.9310
eJ	 0.9180
eK	 0.8910
eL	 0.8750
eM	 0.8720

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Chain	Atom inclusion
eN	 0.9030
eO	 0.8640
eP	 0.8810
eQ	 1.0000
eR	 0.8540
eS	 0.8750
eT	 0.8640
eU	 0.8590
eV	 0.9440
eW	 0.9360
eX	 0.9990
eY	 0.9790
eZ	 0.9710
ea	 0.9550
eb	 0.9650
ec	 0.9590
ed	 0.9440
ee	 0.8420
ef	 0.8310
eg	 0.9900
eh	 0.0380
ei	 0.6990
ej	 0.7050
ek	 0.7480
el	 0.7170
em	 0.6560
en	 0.8680
eo	 0.8590
ep	 0.8590
eq	 0.9000
er	 0.8840
es	 0.8790
et	 0.8550
eu	 0.8460
ev	 0.8550
ew	 0.8640
ex	 0.8250
ey	 0.8380
ez	 0.9590
f	 0.9700
f0	 0.8700
f1	 0.8850

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Chain	Atom inclusion
f2	 0.8510
f3	 0.8400
f4	 0.8400
f5	 0.8630
f6	 0.8580
f7	 0.8640
f8	 0.9850
f9	 0.8780
fA	 0.9240
fB	 0.9450
fC	 0.9660
fD	 0.8320
fE	 0.8530
fF	 0.9600
fG	 0.6070
fH	 0.8830
fI	 0.9230
fJ	 0.9820
fK	 0.9480
fL	 0.9460
fM	 0.8800
fN	 0.8520
fO	 0.8510
fP	 0.8620
fQ	 0.8770
fR	 0.8860
fS	 0.8690
fT	 0.8690
fU	 0.8590
fV	 0.8720
fW	 0.8280
fX	 0.8490
fY	 0.9760
fZ	 0.8430
fa	 0.8490
fb	 0.8180
fc	 0.8250
fd	 0.8890
fe	 0.9070
ff	 0.9580
fg	 0.9690
fh	 0.9410

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Chain	Atom inclusion
fi	 0.9140
fj	 0.9300
fk	 0.9540
fl	 0.9660
fm	 0.8350
fn	 0.8280
fo	 0.9540
fp	 0.7400
fq	 0.9600
fr	 0.9240
fs	 0.9640
ft	 0.9580
fu	 0.8680
fv	 0.8750
fw	 0.8820
fx	 0.8700
fy	 0.8850
fz	 0.8860
g	 0.9980
g0	 0.9750
g1	 0.9810
g2	 0.9810
g3	 0.9050
g4	 0.7900
g5	 0.6820
g6	 0.9870
g7	 0.9820
g8	 0.9860
g9	 0.9900
gA	 0.8360
gB	 0.8510
gC	 0.9140
gD	 0.9140
gE	 0.9380
gF	 0.9810
gG	 0.9420
gH	 0.9130
gI	 0.9310
gJ	 0.9560
gK	 0.9680
gL	 0.8340
gM	 0.8500

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Chain	Atom inclusion
gN	 0.9450
gO	 0.5890
gP	 0.9420
gQ	 0.8730
gR	 0.9790
gS	 0.9900
gT	 0.9170
gU	 0.8570
gV	 0.8430
gW	 0.8530
gX	 0.8680
gY	 0.8680
gZ	 0.8680
ga	 0.8460
gb	 0.8430
gc	 0.8200
gd	 0.8680
ge	 0.8380
gf	 0.8120
gg	 0.9730
gh	 0.8530
gi	 0.8600
gj	 0.8230
gk	 0.8350
gl	 0.8660
gm	 0.8740
gn	 0.9310
go	 0.9620
gp	 0.9150
gq	 0.9120
gr	 0.9140
gs	 0.9550
gt	 0.9490
gu	 0.8390
gv	 0.8170
gw	 0.9430
gx	 0.5450
gy	 0.9320
gz	 0.9550
h	 0.9530
h0	 0.9980
h1	 0.7590

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Chain	Atom inclusion
h2	 0.7870
h3	 0.6190
h4	 0.7360
h5	 0.6490
h6	 0.7790
h7	 0.9970
h8	 1.0000
h9	 1.0000
hA	 0.9730
hB	 0.9190
hC	 0.9650
hD	 0.9960
hE	 0.9940
hF	 0.9800
hG	 0.9910
hH	 0.9840
hI	 0.8250
hJ	 0.9800
hK	 0.0000
hL	 0.0000
hM	 0.0820
hN	 0.0110
hO	 0.0000
hP	 0.0000
hQ	 0.0000
hR	 0.0000
hS	 0.0000
hT	 0.9790
hU	 0.9670
hV	 0.9790
hW	 0.9820
hX	 0.9820
hY	 1.0000
hZ	 0.9980
ha	 0.9910
hb	 0.9970
hc	 0.9870
hd	 1.0000
he	 0.9870
hf	 1.0000
hg	 1.0000
hh	 0.9940

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Chain	Atom inclusion
hi	 1.0000
hj	 1.0000
hk	 1.0000
hl	 1.0000
hm	 1.0000
hn	 0.7850
ho	 0.7170
hp	 0.7170
hq	 0.7960
hr	 0.7190
hs	 0.7270
ht	 0.6900
hu	 1.0000
hv	 0.9980
hw	 1.0000
hx	 1.0000
hy	 0.9990
hz	 1.0000
i	 0.9530
i0	 1.0000
i1	 0.7470
i2	 0.6840
i3	 0.7010
i4	 0.6880
i5	 0.8540
i6	 1.0000
i7	 1.0000
i8	 1.0000
i9	 1.0000
iA	 0.9990
iB	 1.0000
iC	 0.6630
iD	 0.6940
iE	 0.6820
iF	 0.6970
iG	 0.8270
iH	 0.8160
iI	 1.0000
iJ	 1.0000
iK	 0.9960
iL	 1.0000
iM	 1.0000

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Chain	Atom inclusion
iN	 1.0000
iO	 0.6850
iP	 0.6070
iQ	 0.6650
iR	 0.7140
iS	 0.7630
iT	 0.7430
iU	 1.0000
iV	 1.0000
iW	 1.0000
iX	 1.0000
iY	 1.0000
iZ	 1.0000
ia	 0.7850
ib	 0.7150
ic	 0.7720
id	 0.7210
ie	 0.7450
if	 0.5960
ig	 1.0000
ih	 1.0000
ii	 1.0000
ij	 0.0000
ik	 1.0000
il	 1.0000
im	 0.8010
in	 0.7440
io	 0.6220
ip	 0.7950
iq	 0.7770
ir	 0.8030
is	 1.0000
it	 1.0000
iu	 1.0000
iv	 1.0000
iw	 1.0000
ix	 1.0000
iy	 1.0000
iz	 0.8100
j	 0.9220
j0	 0.6900
j1	 0.7290

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Chain	Atom inclusion
j2	 0.8080
j3	 0.7890
j4	 1.0000
j5	 1.0000
j6	 1.0000
j7	 1.0000
j8	 1.0000
j9	 1.0000
jA	 1.0000
jB	 0.7810
jC	 0.7790
jD	 0.6180
jE	 0.6590
jF	 0.7300
jG	 0.7120
jH	 1.0000
jI	 1.0000
jJ	 1.0000
jK	 1.0000
jL	 1.0000
jM	 0.9940
jN	 0.8220
jO	 0.7530
jP	 0.7190
jQ	 0.7020
jR	 0.6880
jS	 0.8160
jT	 1.0000
jU	 1.0000
jV	 1.0000
jW	 1.0000
jX	 1.0000
jY	 0.7300
jZ	 0.7860
ja	 0.8040
jb	 0.7480
jc	 0.7190
jd	 0.8080
je	 1.0000
jf	 1.0000
jg	 1.0000
jh	 1.0000

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Chain	Atom inclusion
ji	 1.0000
jj	 0.9110
jk	 1.0000
jl	 0.8520
jm	 0.8130
jn	 0.8170
jo	 0.8130
jp	 0.8270
jq	 1.0000
jr	 1.0000
js	 1.0000
jt	 1.0000
ju	 1.0000
jv	 1.0000
jw	 1.0000
jx	 0.7480
jy	 0.6760
jz	 0.7780
k	 0.9840
k0	 0.8450
k1	 0.8620
k2	 0.7790
k3	 1.0000
k4	 1.0000
k5	 1.0000
k6	 1.0000
k7	 1.0000
k8	 1.0000
k9	 0.7880
kA	 0.8710
kB	 0.7670
kC	 0.8630
kD	 0.7870
kE	 0.8080
kF	 1.0000
kG	 1.0000
kH	 1.0000
kI	 1.0000
kJ	 1.0000
kK	 1.0000
kL	 0.7590
kM	 0.8160

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Chain	Atom inclusion
kN	 0.8870
kO	 0.7860
kP	 0.8810
kQ	 0.8330
kR	 1.0000
kS	 1.0000
kT	 1.0000
kU	 1.0000
kV	 1.0000
kW	 1.0000
kX	 0.8310
kY	 0.8470
kZ	 0.8490
ka	 0.8850
kb	 0.8580
kc	 0.8650
kd	 1.0000
ke	 1.0000
kf	 1.0000
kg	 1.0000
kh	 1.0000
ki	 1.0000
kj	 0.8160
kk	 0.9380
kl	 0.8220
km	 0.8120
kn	 0.8240
ko	 0.8320
kp	 1.0000
kq	 1.0000
kr	 1.0000
ks	 1.0000
kt	 1.0000
ku	 1.0000
kv	 1.0000
kw	 0.7750
kx	 0.8260
ky	 0.8230
kz	 0.8480
l	 0.9890
l0	 0.8360
l1	 0.8240

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Chain	Atom inclusion
l2	 1.0000
l3	 1.0000
l4	 1.0000
l5	 1.0000
l6	 1.0000
l7	 1.0000
l8	 0.8580
l9	 0.7980
lA	 0.7730
lB	 0.8020
lC	 0.8630
lD	 0.8610
lE	 1.0000
lF	 1.0000
lG	 1.0000
lH	 1.0000
lI	 1.0000
lJ	 1.0000
lK	 0.8310
lL	 0.8140
lM	 0.8160
lN	 0.8310
lO	 0.7910
lP	 0.8210
lQ	 1.0000
lR	 1.0000
lS	 1.0000
lT	 1.0000
lU	 1.0000
lV	 1.0000
lW	 0.7950
lX	 0.8330
lY	 0.7950
lZ	 0.8530
la	 0.8060
lb	 0.7780
lc	 0.9980
ld	 1.0000
le	 1.0000
lf	 1.0000
lg	 1.0000
lh	 1.0000

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Chain	Atom inclusion
li	 0.8490
lj	 0.8330
lk	 0.7900
ll	 0.9710
lm	 0.8250
ln	 0.8160
lo	 1.0000
lp	 1.0000
lq	 1.0000
lr	 1.0000
ls	 1.0000
lt	 1.0000
lu	 0.8180
lv	 0.8240
lw	 0.8190
lx	 0.7910
ly	 0.7790
lz	 0.8490
m	 0.9720
m0	 0.8200
m1	 0.9950
m2	 1.0000
m3	 1.0000
m4	 0.9980
m5	 1.0000
m6	 1.0000
m7	 0.8780
m8	 0.8360
m9	 0.7550
mA	 0.8110
mB	 0.8000
mC	 0.7890
mD	 1.0000
mE	 1.0000
mF	 1.0000
mG	 0.9910
mH	 1.0000
mI	 1.0000
mJ	 0.8160
mK	 0.8200
mL	 0.7790
mM	 0.7790

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Chain	Atom inclusion
mN	 0.8030
mO	 0.7910
mP	 1.0000
mQ	 1.0000
mR	 1.0000
mS	 1.0000
mT	 1.0000
mU	 1.0000
mV	 0.8870
mW	 0.8080
mX	 0.7970
mY	 0.7560
mZ	 0.8180
ma	 0.8390
mb	 1.0000
mc	 1.0000
md	 1.0000
me	 1.0000
mf	 0.9940
mg	 1.0000
mh	 0.8100
mi	 0.8130
mj	 0.8730
mk	 0.7820
ml	 0.8360
mm	 0.8910
mn	 0.8550
mo	 0.9870
mp	 0.9920
mq	 1.0000
mr	 0.9820
ms	 0.9990
mt	 0.8780
mu	 0.9070
mv	 0.8720
mw	 0.8530
mx	 0.8400
my	 0.8440
mz	 0.8650
n	 0.9900
n0	 0.8790
n1	 0.9770

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Chain	Atom inclusion
n2	 0.9960
n3	 0.9980
n4	 0.9750
n5	 0.9970
n6	 0.8180
n7	 0.8970
n8	 0.8940
n9	 0.8870
nA	 0.8440
nB	 0.8300
nC	 0.9990
nD	 1.0000
nE	 1.0000
nF	 1.0000
nG	 1.0000
nH	 0.9940
nI	 0.8560
nJ	 0.8610
nK	 0.8540
nL	 0.8050
nM	 0.8070
nN	 0.8280
nO	 0.9950
nP	 1.0000
nQ	 1.0000
nR	 0.9960
nS	 0.9970
nT	 0.9980
nU	 0.8380
nV	 0.8100
nW	 0.8480
nX	 0.8280
nY	 0.8600
nZ	 0.8320
na	 0.9960
nb	 0.9700
nc	 0.9760
nd	 0.9960
ne	 0.9960
nf	 0.9980
ng	 0.8770
nh	 0.8280

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Chain	Atom inclusion
ni	 0.8590
nj	 0.8850
nk	 0.8590
nl	 0.8810
nm	 1.0000
nn	 0.9550
no	 0.9560
np	 0.9880
nq	 0.9980
nr	 0.9530
ns	 0.9190
nt	 0.8910
nu	 0.9130
nv	 0.9420
nw	 0.9150
nx	 0.9080
ny	 0.8990
nz	 0.9890
o	 0.9670
o0	 0.8810
o1	 0.9530
o2	 0.9520
o3	 0.8980
o4	 0.9240
o5	 0.9170
o6	 0.8770
o7	 0.9200
o8	 0.9090
o9	 0.8930
oA	 0.8920
oB	 0.9650
oC	 0.9930
oD	 0.9750
oE	 0.9960
oF	 0.9980
oG	 0.8880
oH	 0.8820
oI	 0.9060
oJ	 0.8760
oK	 0.9290
oL	 0.8880
oM	 0.9700

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Chain	Atom inclusion
oN	 0.9930
oO	 0.9930
oP	 0.9850
oQ	 0.9280
oR	 0.9160
oS	 0.8720
oT	 0.9310
oU	 0.9230
oV	 0.8890
oW	 0.9780
oX	 0.9880
oY	 0.9760
oZ	 0.9840
oa	 0.9840
ob	 0.9570
oc	 0.9290
od	 0.9350
oe	 0.8940
of	 0.9350
og	 0.9200
oh	 0.8420
oi	 0.9570
oj	 0.9920
ok	 0.9460
ol	 0.9390
om	 0.8890
on	 0.9530
oo	 0.8580
op	 0.7650
oq	 0.3320
or	 0.9400
os	 0.9980
ot	 0.9970
ou	 0.8810
ov	 0.9480
ow	 0.9860
ox	 0.9670
oy	 0.9860
oz	 0.9870
p	 0.9940
p0	 0.8680
p1	 0.2270

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Chain	Atom inclusion
p2	 0.9470
p3	 0.8780
p4	 0.6680
p5	 0.6830
p6	 0.0830
p7	 0.9520
p8	 0.9590
p9	 0.9910
pA	 0.9900
pB	 1.0000
pC	 0.9990
pD	 0.9990
pE	 1.0000
pF	 0.9990
pG	 0.9980
pH	 0.9980
pI	 0.9950
pJ	 0.9880
pK	 1.0000
pL	 0.8970
pM	 0.9980
pN	 0.9670
pO	 0.9770
pP	 0.8430
pQ	 0.8500
pR	 0.8780
pS	 0.6430
pT	 0.7250
pU	 0.4860
pV	 0.3360
pW	 0.8670
pX	 0.8110
pY	 0.6530
pZ	 0.3630
pa	 0.1610
pb	 0.8460
pc	 0.9990
pd	 1.0000
pe	 0.9300
pf	 0.9210
pg	 0.8990
ph	 0.7170

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Chain	Atom inclusion
pi	0.4840
pj	0.3790
pk	0.0250
pl	0.8420
pm	0.8830
pn	0.6140
po	0.7860
pp	0.1860
pq	0.8970
pr	0.8970
ps	0.8930
pt	0.6220
pu	0.8630
pv	0.8530
pw	0.8370
px	0.7760
py	0.7220
pz	0.5310
q	0.9880
q0	0.0000
q1	0.5090
q2	0.2730
q3	0.4250
q4	0.5860
q5	0.3990
q6	0.3430
q7	0.5540
q8	0.0000
q9	0.0000
qA	0.8450
qB	0.8750
qC	0.6250
qD	0.7390
qE	0.3780
qF	0.2250
qG	0.8800
qH	0.7850
qI	0.5990
qJ	0.3480
qK	0.1800
qL	0.8360
qM	0.9980

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Chain	Atom inclusion
qN	 0.9860
qO	 0.9050
qP	 0.8180
qQ	 0.9550
qR	 0.6760
qS	 0.7190
qT	 0.3650
qU	 0.0820
qV	 0.8320
qW	 0.9780
qX	 0.9050
qY	 0.8790
qZ	 0.3170
qa	 0.9300
qb	 1.0000
qc	 0.9980
qd	 0.8780
qe	 0.8670
qf	 0.9200
qg	 0.7610
qh	 0.8520
qi	 0.5410
qj	 0.3690
qk	 0.9810
ql	 0.9220
qm	 0.6990
qn	 0.8830
qo	 0.0000
qp	 0.9470
qq	 0.8900
qr	 0.9800
qs	 1.0000
qt	 0.9950
qu	 0.0000
qv	 0.0000
qw	 0.0150
qx	 0.0490
qy	 0.9890
qz	 0.8760
r	 0.9810
r0	 0.0000
r1	 0.0000

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Chain	Atom inclusion
r2	 0.0000
r3	 0.0040
r4	 0.0000
r5	 0.0000
r6	 0.5450
r7	 0.1100
r8	 0.0060
r9	 0.0000
rA	 0.3690
rB	 0.5730
rC	 0.9280
rD	 0.9190
rE	 0.5560
rF	 0.9670
rG	 0.0000
rH	 0.0000
rI	 0.0000
rJ	 0.0000
rK	 0.9920
rL	 0.9300
rM	 0.9420
rN	 0.0000
rO	 0.0000
rP	 0.0000
rQ	 0.3510
rR	 0.2920
rS	 0.3460
rT	 0.4200
rU	 0.5480
rV	 0.3810
rW	 0.3500
rX	 0.0880
rY	 0.1560
rZ	 0.2380
ra	 0.1700
rb	 0.2720
rc	 0.2380
rd	 0.2500
re	 0.2480
rf	 0.2620
rg	 0.4620
rh	 0.2870

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Chain	Atom inclusion
ri	 0.4470
rj	 0.9950
rk	 0.0000
rl	 0.0040
rm	 0.0000
rn	 0.0000
ro	 0.8610
rp	 0.8350
rq	 0.9790
rr	 0.0000
rs	 0.0000
rt	 0.0000
ru	 0.0000
rv	 0.8130
rw	 0.7570
rx	 0.8420
ry	 0.3030
rz	 0.0000
s	 0.7290
s0	 0.3960
s1	 0.6240
s2	 0.7710
s3	 0.8010
s4	 0.7910
s5	 0.7760
s6	 0.6880
s7	 0.5450
s8	 0.9390
s9	 0.7300
sA	 0.0000
sB	 0.0000
sC	 0.0000
sD	 0.0310
sE	 0.0000
sF	 0.0000
sG	 0.0000
sH	 0.0000
sI	 0.5840
sJ	 0.0880
sK	 0.0000
sL	 0.0220
sM	 0.0060

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Chain	Atom inclusion
sN	0.0360
sO	0.0000
sP	0.0000
sQ	0.0000
sR	0.2150
sS	0.0550
sT	0.1750
sU	0.2510
sV	0.3190
sW	0.4590
sX	0.0000
sY	0.0040
sZ	0.0000
sa	0.0060
sb	0.2110
sc	0.0010
sd	0.0020
se	0.0000
sf	0.0000
sg	0.0000
sh	0.0000
si	0.0000
sj	0.0000
sk	0.9890
sl	0.9510
sm	0.9350
sn	0.8630
so	0.9620
sp	0.8870
sq	0.7650
sr	0.7110
ss	0.6100
st	0.7460
su	0.8490
sv	0.1900
sw	0.8240
sx	0.7980
sy	0.7490
sz	0.6770
t	0.9850
tA	0.7970
tB	0.9260

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Chain	Atom inclusion
tC	 0.8700
tD	 0.8660
tE	 0.9210
tF	 0.9140
tG	 0.8380
tH	 0.9200
tI	 0.7050
tJ	 0.5640
tK	 0.8710
tL	 0.4760
tM	 0.7680
tN	 0.2990
tO	 0.5250
tP	 0.5380
tQ	 0.0050
tR	 0.8780
tS	 0.6540
tT	 0.9890
tU	 0.2370
tV	 0.7550
tW	 0.5870
tX	 0.9780
tY	 0.9480
tZ	 0.5710
ta	 0.5430
tb	 0.6230
tc	 0.4420
td	 0.5700
te	 0.5160
tf	 0.5410
tg	 0.6740
th	 0.5920
ti	 0.6000
tj	 0.7220
u	 0.9940
v	 0.9790
w	 0.9970
x	 0.8730
y	 0.9150
z	 0.2650