Full wwPDB EM Validation Report ⓘ

Nov 19, 2026 – 07:45 PM JST

PDB ID	:	46ER / pdb_000046er
EMDB ID	:	EMD-83742
Title	:	Aedes albopictus-associated Tymoviridae-like virus strain IMCAS
Authors	:	Qu, H.; Li, L.J.; Xi, Y.H.; Li, S.H.; Gao, G.F.
Deposited on	:	2026-09-20
Resolution	:	2.11 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

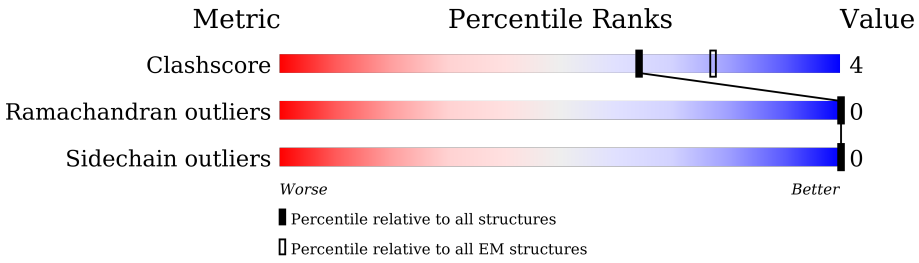
EMDB validation analysis	:	0.0.1.dev133
MolProbity	:	4-5-2 with Phenix2.2
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.51

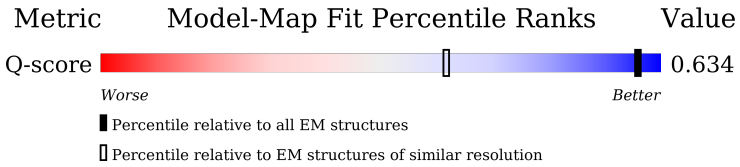
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 2.11 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.





Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2361 (1.64 - 2.61)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	0	194	96%
1	1	194	96%
1	2	194	88% 9%
1	3	194	5% 89% 7%

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Mol	Chain	Length	Quality of chain
1	4	194	96%
1	5	194	88% 9%
1	6	194	5% 89% 6%
1	7	194	96%
1	8	194	88% 8%
1	9	194	5% 89% 6%
1	A	194	5% 89% 6%
1	A0	194	5% 89% 6%
1	A1	194	5% 88% 7%
1	A2	194	96%
1	A3	194	88% 9%
1	A4	194	5% 89% 6%
1	A5	194	96%
1	A6	194	88% 9%
1	A7	194	5% 89% 7%
1	A8	194	96%
1	A9	194	89% 8%
1	AA	194	88% 9%
1	AB	194	5% 90% 6%
1	AC	194	96%
1	AD	194	88% 9%
1	AE	194	5% 89% 6%
1	AF	194	96%
1	AG	194	88% 9%
1	AH	194	5% 90% 6%

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Mol	Chain	Length	Quality of chain
1	AI	194	96%
1	AJ	194	88% 9%
1	AK	194	5% 88% 7%
1	AL	194	96%
1	AM	194	89% 8%
1	AN	194	5% 89% 6%
1	AO	194	96%
1	AP	194	88% 9%
1	AQ	194	5% 89% 6%
1	AR	194	96%
1	AS	194	88% 8%
1	AT	194	5% 89% 6%
1	AU	194	96%
1	AV	194	89% 7%
1	AW	194	5% 89% 6%
1	AX	194	96%
1	AY	194	88% 8%
1	AZ	194	5% 89% 7%
1	Aa	194	96%
1	Ab	194	88% 9%
1	Ac	194	5% 89% 7%
1	Ad	194	96%
1	Ae	194	88% 9%
1	Af	194	5% 89% 6%
1	Ag	194	96%

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Mol	Chain	Length	Quality of chain
1	Ah	194	88% 9%
1	Ai	194	5% 89% 6%
1	Aj	194	96%
1	Ak	194	88% 9%
1	Al	194	5% 89% 6%
1	Am	194	96%
1	An	194	88% 9%
1	Ao	194	5% 89% 6%
1	Ap	194	96%
1	Aq	194	88% 9%
1	Ar	194	5% 89% 6%
1	As	194	96%
1	At	194	88% 9%
1	Au	194	89% 6%
1	Av	194	96%
1	Aw	194	88% 9%
1	Ax	194	5% 90% 6%
1	Ay	194	96%
1	Az	194	88% 9%
1	B	194	96%
1	B1	194	88% 8%
1	B2	194	5% 89% 6%
1	B3	194	96%
1	B4	194	88% 8%
1	BA	194	96%

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Mol	Chain	Length	Quality of chain
1	BB	194	88% 8%
1	BC	194	5% 89% 6%
1	BD	194	96%
1	BE	194	88% 9%
1	BF	194	5% 89% 6%
1	BG	194	96%
1	BH	194	88% 9%
1	BI	194	5% 89% 6%
1	BJ	194	96%
1	BK	194	88% 8%
1	BL	194	5% 89% 6%
1	BM	194	96%
1	BN	194	88% 9%
1	BO	194	5% 89% 6%
1	BP	194	96%
1	BQ	194	88% 9%
1	BR	194	89% 7%
1	BS	194	96%
1	BT	194	89% 8%
1	BU	194	6% 90% 6%
1	BV	194	96%
1	BW	194	88% 9%
1	BX	194	5% 90% 6%
1	BY	194	96%
1	BZ	194	88% 8%

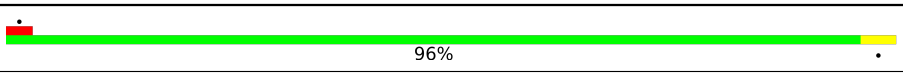
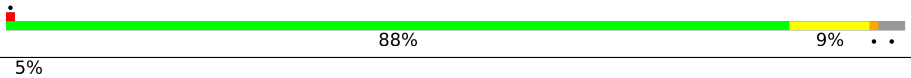
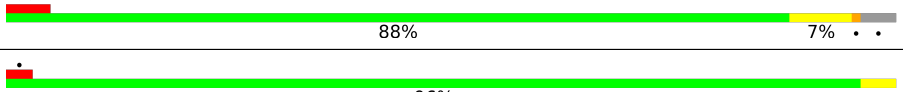
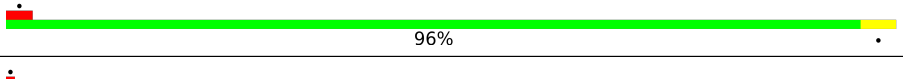
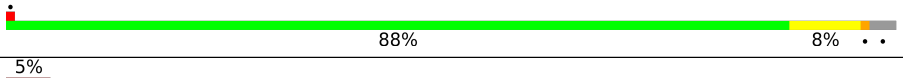
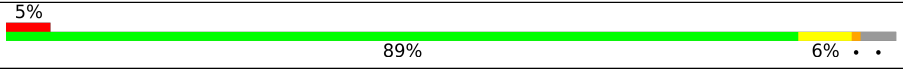
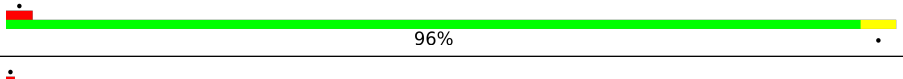
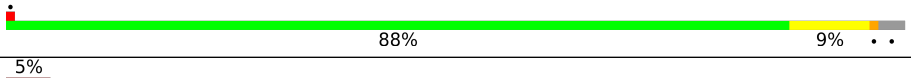
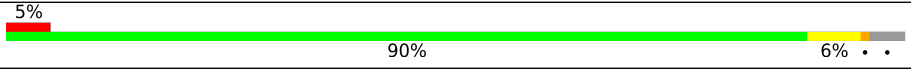
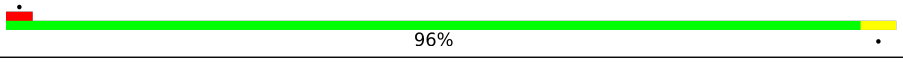
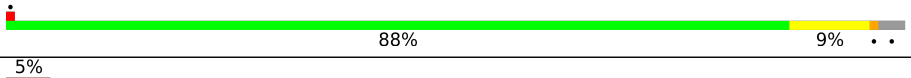
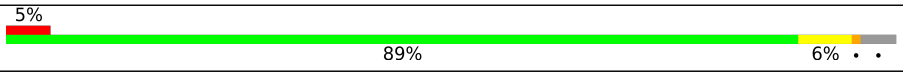
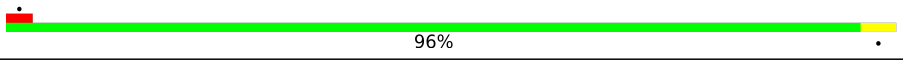
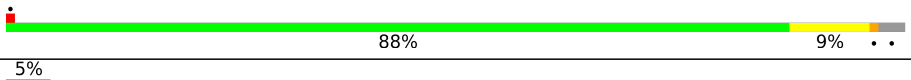
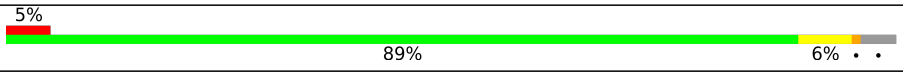
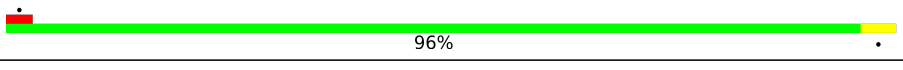
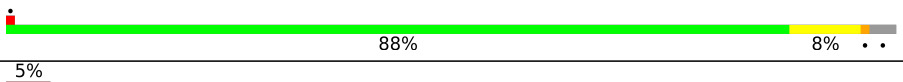
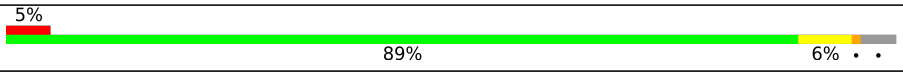
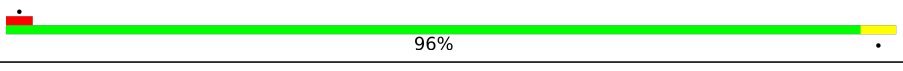
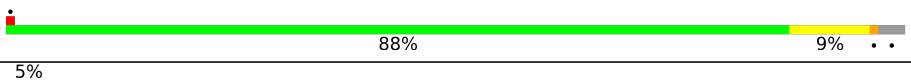
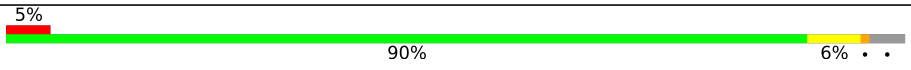
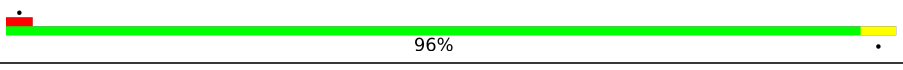
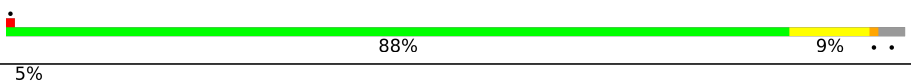
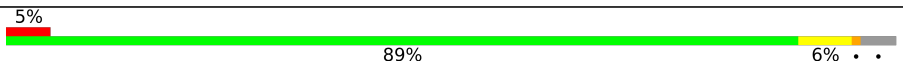
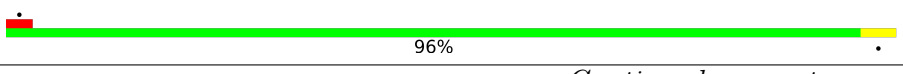
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Mol	Chain	Length	Quality of chain
1	Ba	194	5% 89% 6%
1	Bb	194	96%
1	Bc	194	88% 8%
1	Bd	194	5% 88% 7%
1	Be	194	96%
1	Bf	194	88% 9%
1	Bg	194	5% 89% 7%
1	Bh	194	96%
1	Bi	194	88% 9%
1	Bj	194	5% 89% 6%
1	Bk	194	96%
1	Bl	194	88% 9%
1	Bm	194	5% 89% 6%
1	Bn	194	96%
1	Bo	194	88% 9%
1	Bp	194	88% 7%
1	Bq	194	96%
1	Br	194	88% 9%
1	Bs	194	5% 88% 7%
1	Bt	194	96%
1	Bu	194	88% 9%
1	Bv	194	5% 88% 7%
1	Bw	194	96%
1	Bx	194	88% 9%
1	By	194	5% 89% 6%

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Mol	Chain	Length	Quality of chain
1	Bz	194	
1	C	194	
1	D	194	
1	E	194	
1	F	194	
1	G	194	
1	H	194	
1	I	194	
1	J	194	
1	K	194	
1	L	194	
1	M	194	
1	N	194	
1	O	194	
1	P	194	
1	Q	194	
1	R	194	
1	S	194	
1	T	194	
1	U	194	
1	V	194	
1	W	194	
1	X	194	
1	Y	194	
1	Z	194	

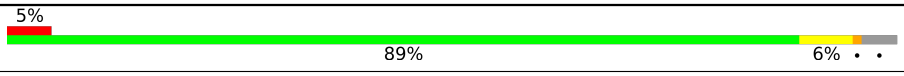
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Mol	Chain	Length	Quality of chain
1	a	194	88% 9%
1	b	194	5% 89% 6%
1	c	194	96%
1	d	194	88% 9%
1	e	194	5% 89% 6%
1	f	194	96%
1	g	194	88% 9%
1	h	194	5% 88% 7%
1	i	194	96%
1	j	194	88% 9%
1	k	194	5% 88% 7%
1	l	194	96%
1	m	194	88% 9%
1	n	194	5% 89% 6%
1	o	194	96%
1	p	194	88% 9%
1	q	194	5% 89% 6%
1	r	194	96%
1	s	194	88% 9%
1	t	194	5% 89% 6%
1	u	194	96%
1	v	194	88% 8%
1	w	194	5% 89% 7%
1	x	194	96%
1	y	194	88% 8%

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Mol	Chain	Length	Quality of chain
1	z	194	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 260160 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 coat protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	B	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	C	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	D	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	E	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	F	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	G	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	H	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	I	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	J	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	K	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	L	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	M	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	N	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	O	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	P	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Q	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	S	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	T	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	U	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	V	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	W	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	X	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Y	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Z	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	a	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	b	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	c	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	d	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	e	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	f	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	g	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	h	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	i	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	j	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	k	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	l	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	n	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	o	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	p	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	q	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	r	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	s	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	t	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	u	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	v	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	w	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	x	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	y	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	z	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	1	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	2	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	3	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	4	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	5	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	6	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	7	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	9	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	0	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	AA	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	AB	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	AC	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	AD	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	AE	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	AF	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	AG	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	AH	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	AI	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	AJ	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	AK	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	AL	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	AM	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	AN	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	AO	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	AP	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	AQ	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	AR	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AS	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	AT	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	AU	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	AV	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	AW	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	AX	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	AY	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	AZ	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Aa	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Ab	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Ac	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Ad	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Ae	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Af	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Ag	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Ah	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Ai	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Aj	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Ak	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Al	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Am	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	An	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Ao	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Ap	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Aq	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Ar	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	As	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	At	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Au	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Av	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Aw	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Ax	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Ay	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Az	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	A1	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	A2	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	A3	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	A4	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	A5	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	A6	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	A7	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	A8	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	A9	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	A0	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	BA	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	BB	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	BC	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	BD	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	BE	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	BF	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	BG	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	BH	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	BI	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	BJ	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	BK	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	BL	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	BM	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	BN	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	BO	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	BP	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	BQ	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	BR	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	BS	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	BT	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	BU	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	BV	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	BW	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	BX	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	BY	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	BZ	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Ba	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Bb	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Bc	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Bd	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Be	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Bf	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Bg	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Bh	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Bi	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Bj	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Bk	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Bl	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Bm	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Bn	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	Bo	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Bp	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Bq	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Br	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Bs	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Bt	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Bu	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	Bv	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Bw	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	Bx	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	By	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	Bz	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	B1	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		
1	B2	186	Total	C	N	O	S	0	0
			1422	917	237	260	8		
1	B3	194	Total	C	N	O	S	0	0
			1477	952	247	269	9		
1	B4	188	Total	C	N	O	S	0	0
			1437	927	239	262	9		

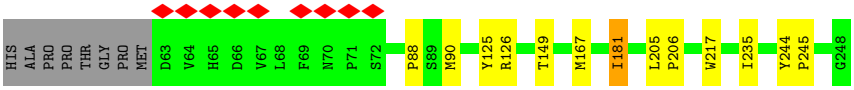
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: coat protein

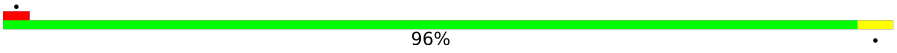
Chain A:





• Molecule 1: coat protein

Chain B:





• Molecule 1: coat protein

Chain C:

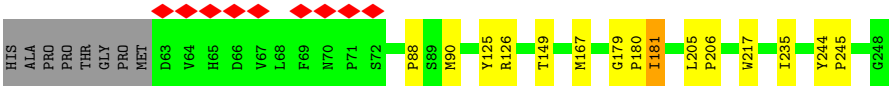




• Molecule 1: coat protein

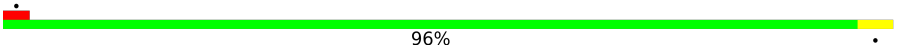
Chain D:

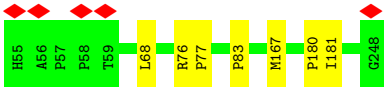




• Molecule 1: coat protein

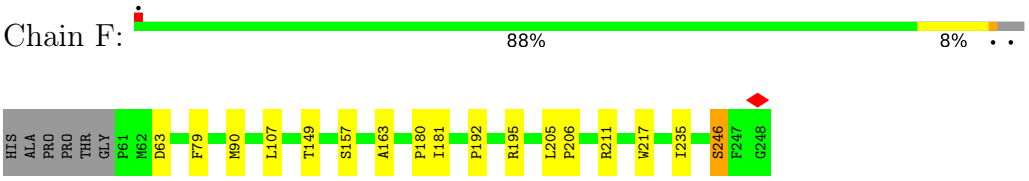
Chain E:





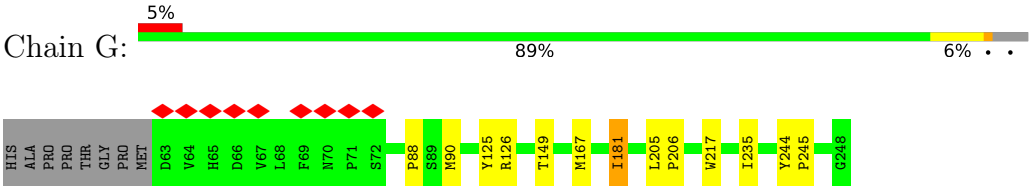
• Molecule 1: coat protein

Chain F:



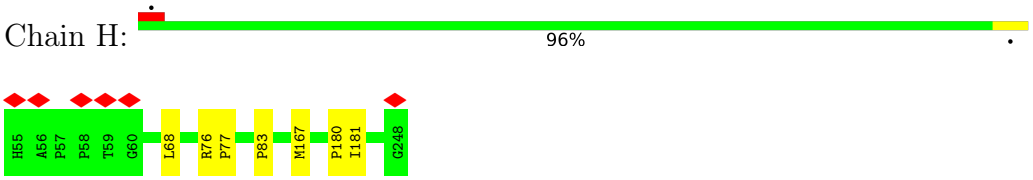
• Molecule 1: coat protein

Chain G:



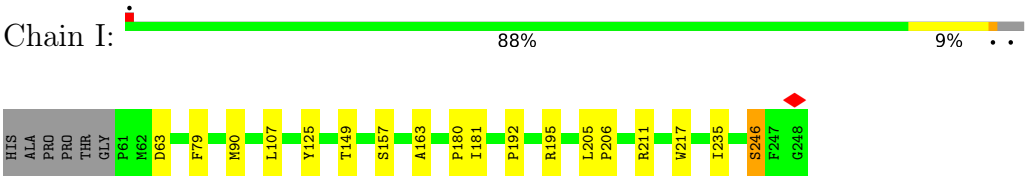
• Molecule 1: coat protein

Chain H:



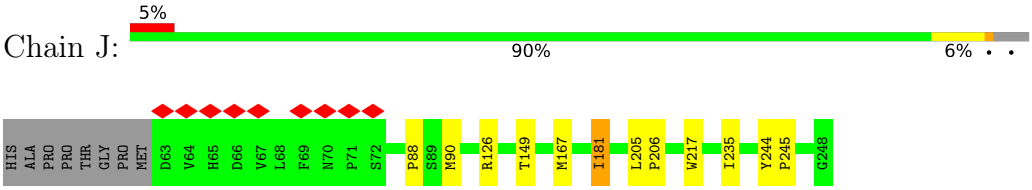
• Molecule 1: coat protein

Chain I:



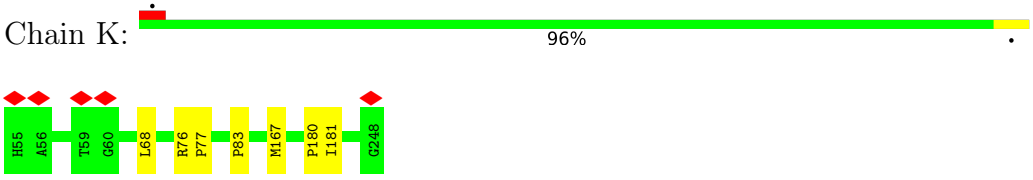
• Molecule 1: coat protein

Chain J:



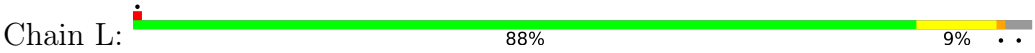
• Molecule 1: coat protein

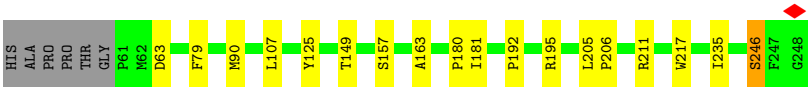
Chain K:



• Molecule 1: coat protein

Chain L:

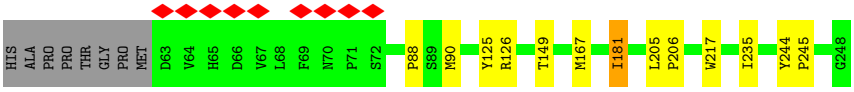




• Molecule 1: coat protein

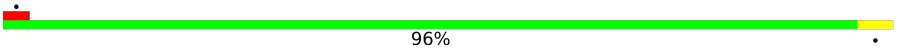
Chain M:





• Molecule 1: coat protein

Chain N:





• Molecule 1: coat protein

Chain O:

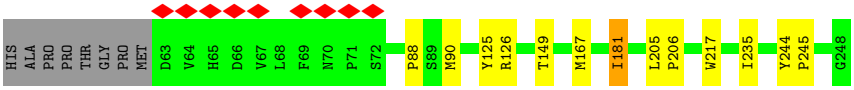




• Molecule 1: coat protein

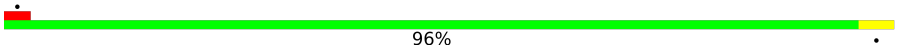
Chain P:





• Molecule 1: coat protein

Chain Q:





• Molecule 1: coat protein

Chain R:

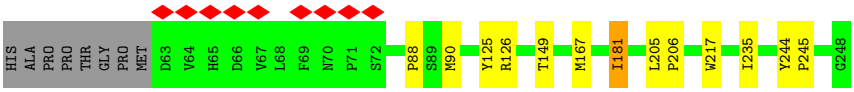




• Molecule 1: coat protein

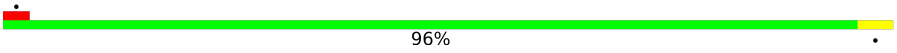
Chain S:

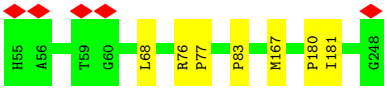




• Molecule 1: coat protein

Chain T:





• Molecule 1: coat protein

Chain U:

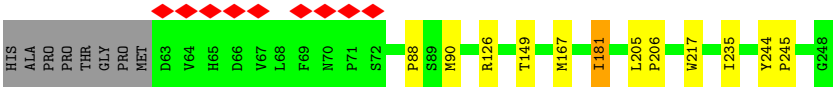




• Molecule 1: coat protein

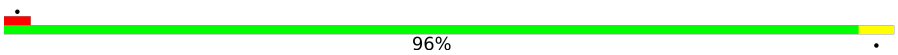
Chain V:

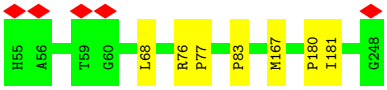




• Molecule 1: coat protein

Chain W:





• Molecule 1: coat protein

Chain X:

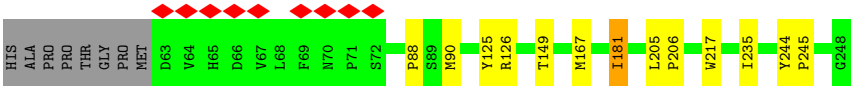




• Molecule 1: coat protein

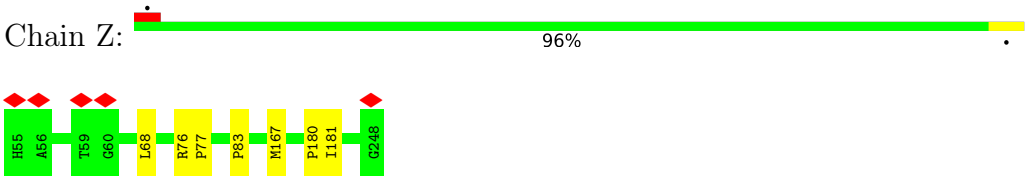
Chain Y:





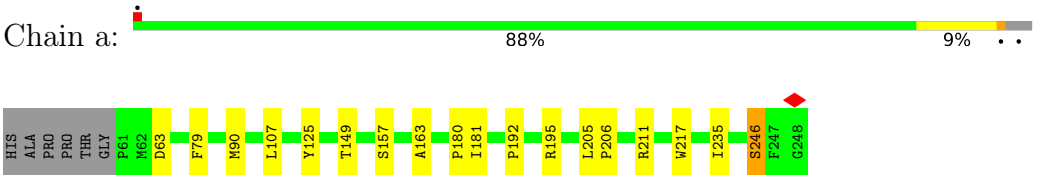
• Molecule 1: coat protein

Chain Z:



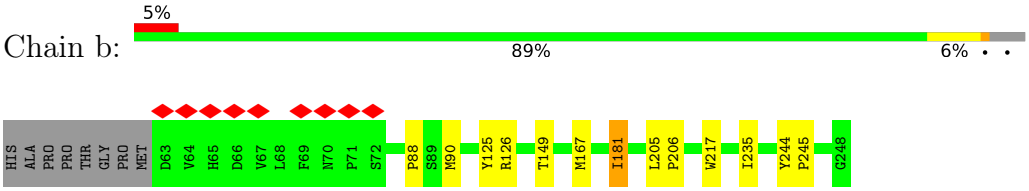
• Molecule 1: coat protein

Chain a:



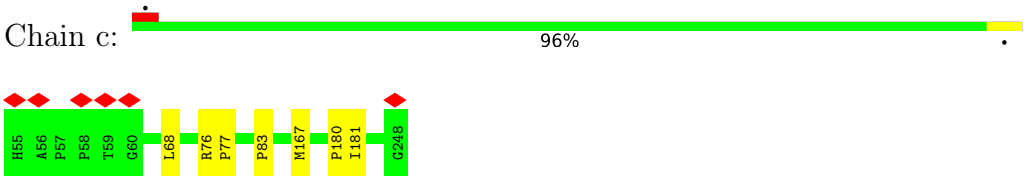
• Molecule 1: coat protein

Chain b:



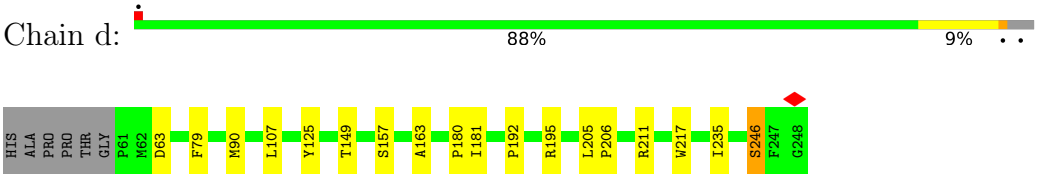
• Molecule 1: coat protein

Chain c:



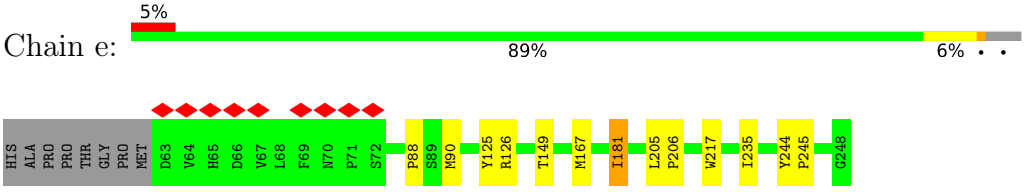
• Molecule 1: coat protein

Chain d:



• Molecule 1: coat protein

Chain e:



• Molecule 1: coat protein

Chain f:





• Molecule 1: coat protein

Chain g:

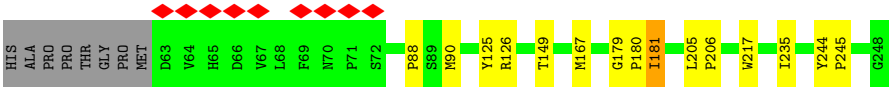




• Molecule 1: coat protein

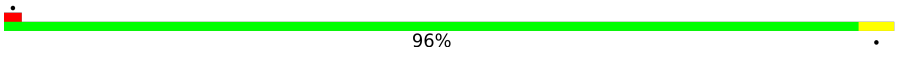
Chain h:

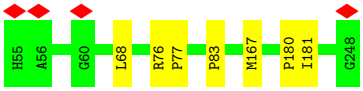




• Molecule 1: coat protein

Chain i:

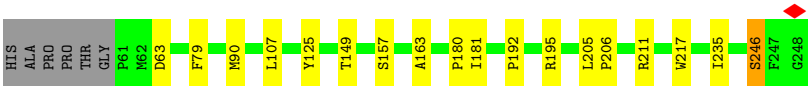




• Molecule 1: coat protein

Chain j:

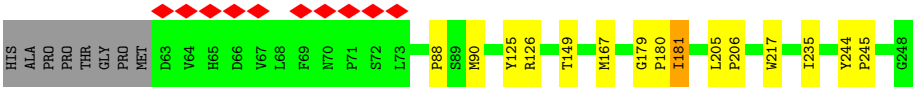




• Molecule 1: coat protein

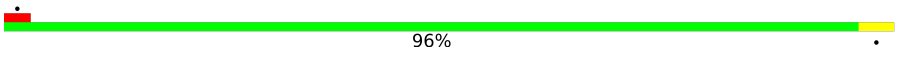
Chain k:





• Molecule 1: coat protein

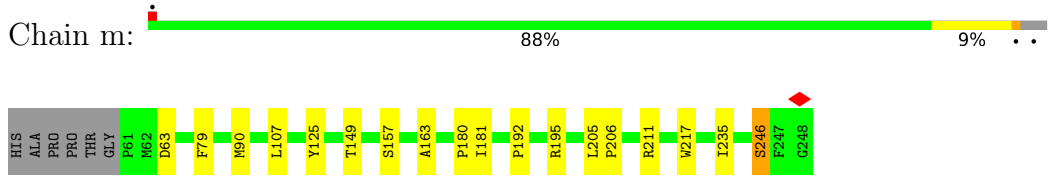
Chain l:





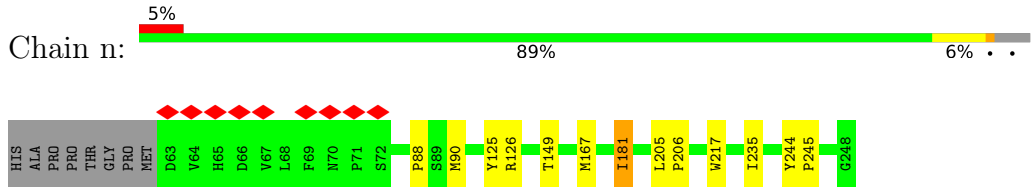
• Molecule 1: coat protein

Chain m:



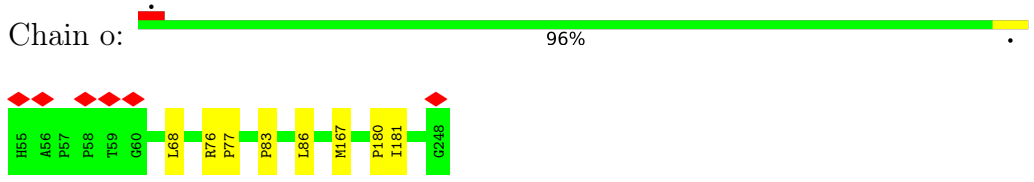
• Molecule 1: coat protein

Chain n:



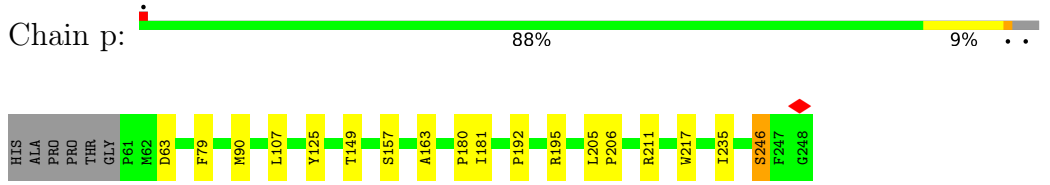
• Molecule 1: coat protein

Chain o:



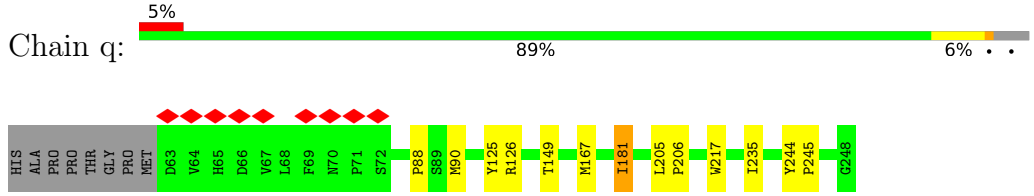
• Molecule 1: coat protein

Chain p:



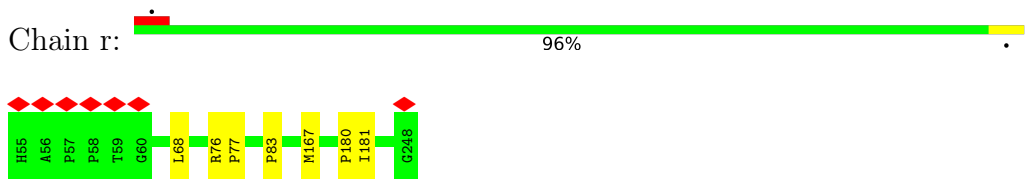
• Molecule 1: coat protein

Chain q:



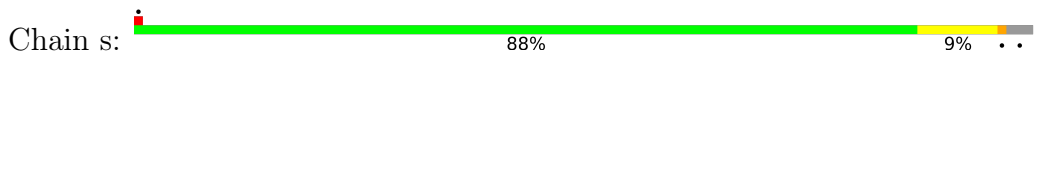
• Molecule 1: coat protein

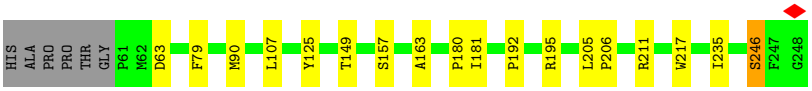
Chain r:



• Molecule 1: coat protein

Chain s:

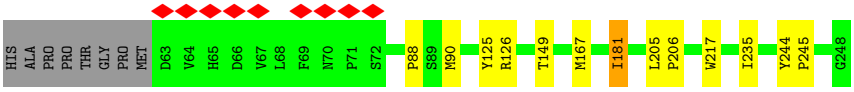




• Molecule 1: coat protein

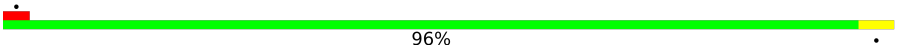
Chain t:





• Molecule 1: coat protein

Chain u:





• Molecule 1: coat protein

Chain v:

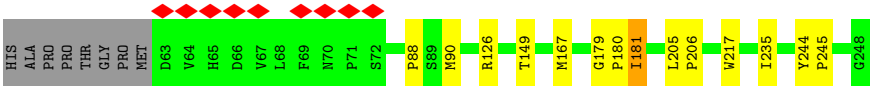




• Molecule 1: coat protein

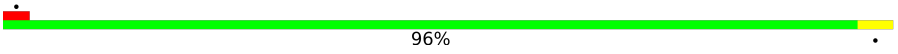
Chain w:





• Molecule 1: coat protein

Chain x:





• Molecule 1: coat protein

Chain y:

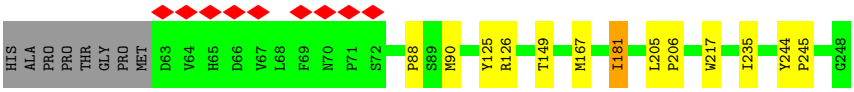




• Molecule 1: coat protein

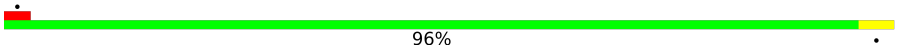
Chain z:





• Molecule 1: coat protein

Chain 1:

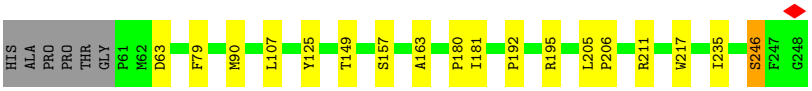




• Molecule 1: coat protein

Chain 2:

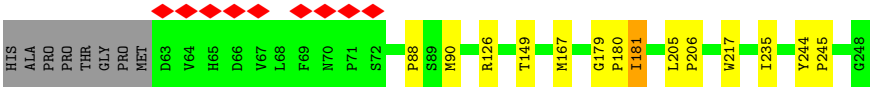




• Molecule 1: coat protein

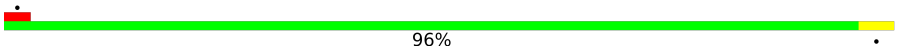
Chain 3:





• Molecule 1: coat protein

Chain 4:





• Molecule 1: coat protein

Chain 5:

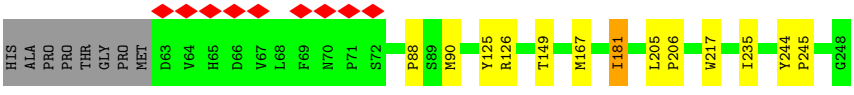




• Molecule 1: coat protein

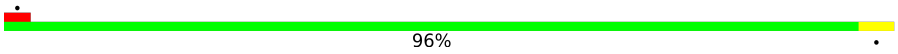
Chain 6:





• Molecule 1: coat protein

Chain 7:





• Molecule 1: coat protein

Chain 8:

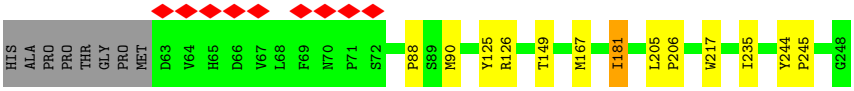




• Molecule 1: coat protein

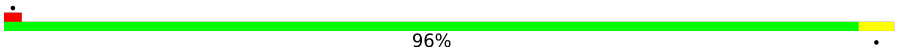
Chain 9:

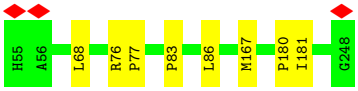




• Molecule 1: coat protein

Chain 0:





• Molecule 1: coat protein

Chain AA:

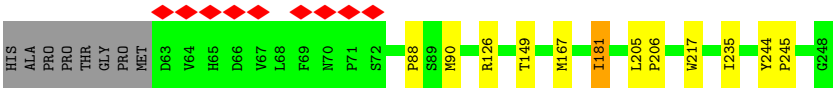




• Molecule 1: coat protein

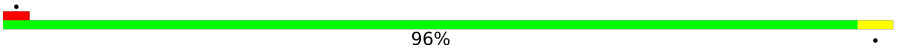
Chain AB:

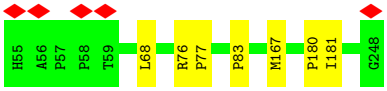




• Molecule 1: coat protein

Chain AC:





• Molecule 1: coat protein

Chain AD:

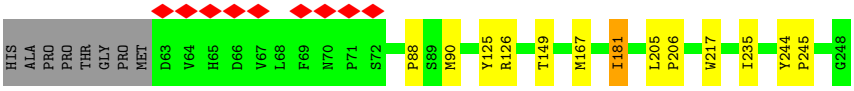




• Molecule 1: coat protein

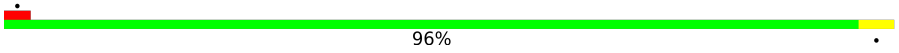
Chain AE:

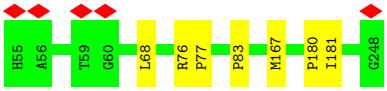




• Molecule 1: coat protein

Chain AF:





• Molecule 1: coat protein

Chain AG:

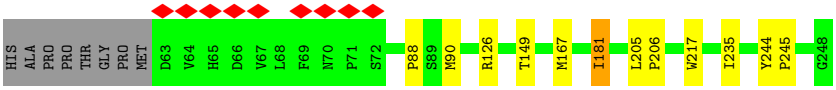




• Molecule 1: coat protein

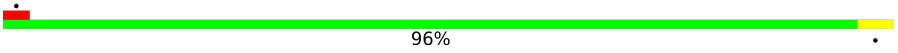
Chain AH:





• Molecule 1: coat protein

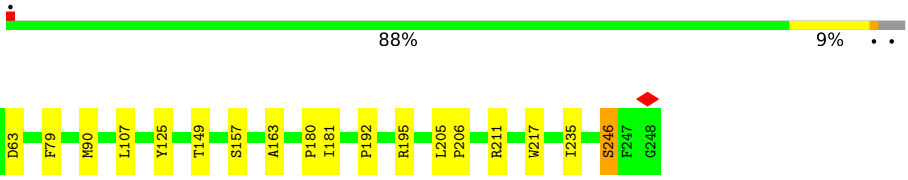
Chain AI:





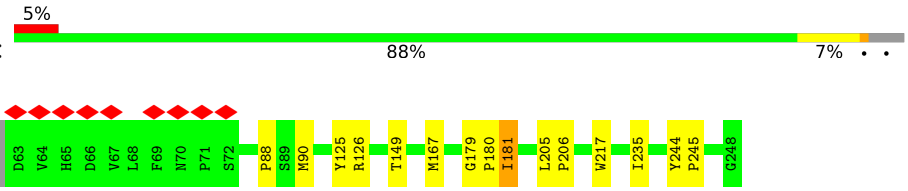
• Molecule 1: coat protein

Chain AJ:



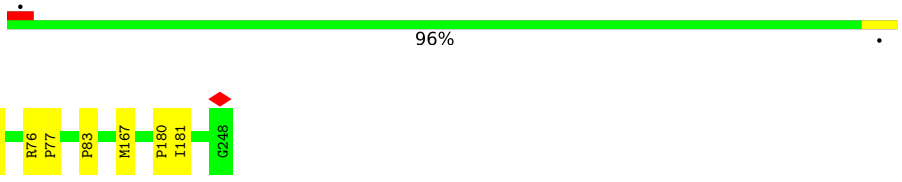
• Molecule 1: coat protein

Chain AK:



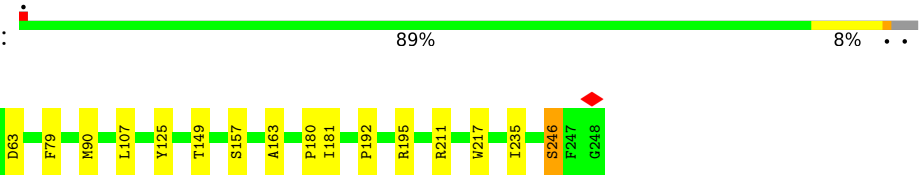
• Molecule 1: coat protein

Chain AL:



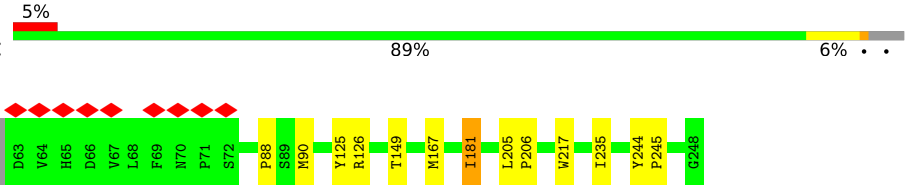
• Molecule 1: coat protein

Chain AM:



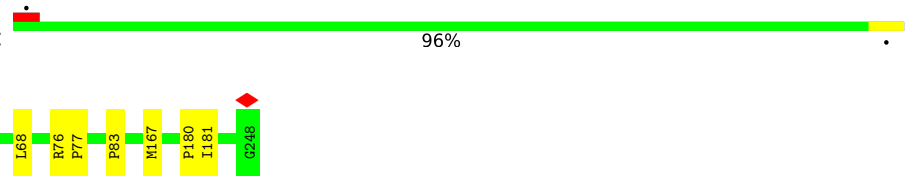
• Molecule 1: coat protein

Chain AN:



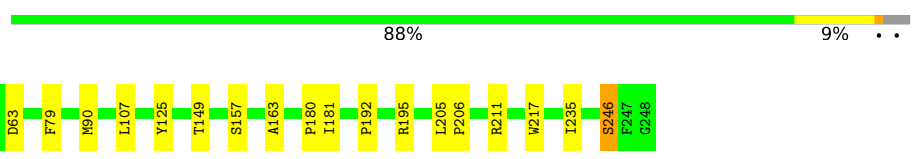
• Molecule 1: coat protein

Chain AO:



• Molecule 1: coat protein

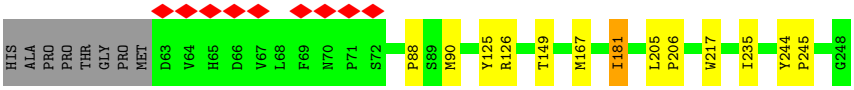
Chain AP:



• Molecule 1: coat protein

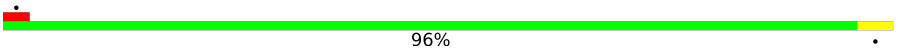
Chain AQ:

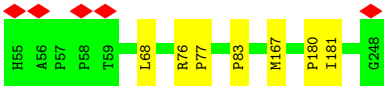




• Molecule 1: coat protein

Chain AR:





• Molecule 1: coat protein

Chain AS:

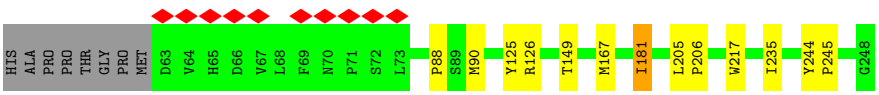




• Molecule 1: coat protein

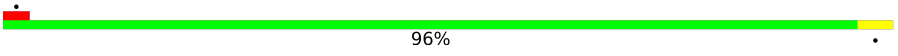
Chain AT:

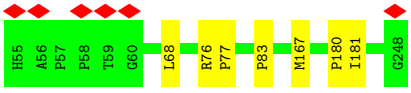




• Molecule 1: coat protein

Chain AU:





• Molecule 1: coat protein

Chain AV:

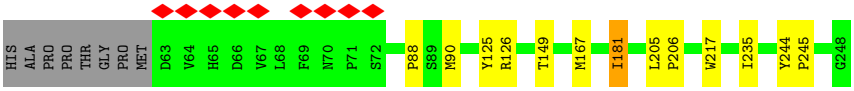




• Molecule 1: coat protein

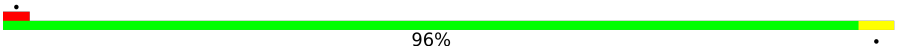
Chain AW:

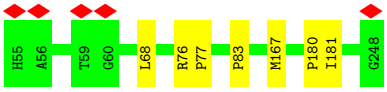




• Molecule 1: coat protein

Chain AX:





• Molecule 1: coat protein

Chain AY:

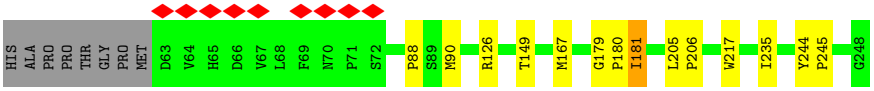




• Molecule 1: coat protein

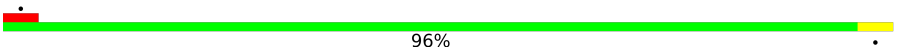
Chain AZ:





• Molecule 1: coat protein

Chain Aa:

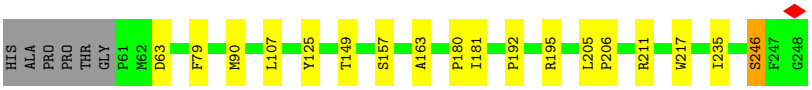




• Molecule 1: coat protein

Chain Ab:

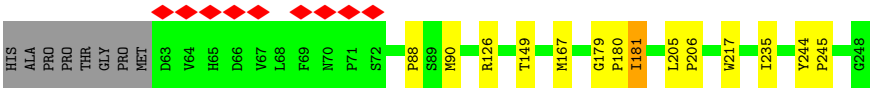




• Molecule 1: coat protein

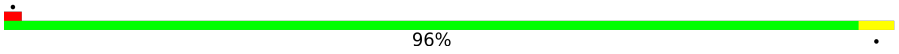
Chain Ac:

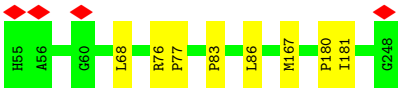




• Molecule 1: coat protein

Chain Ad:





• Molecule 1: coat protein

Chain Ae:

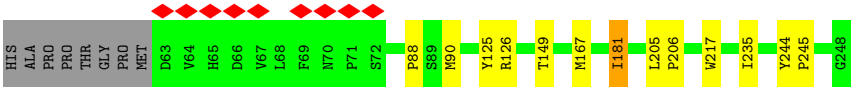




• Molecule 1: coat protein

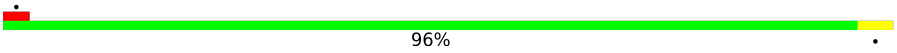
Chain Af:

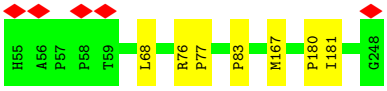




• Molecule 1: coat protein

Chain Ag:





• Molecule 1: coat protein

Chain Ah:

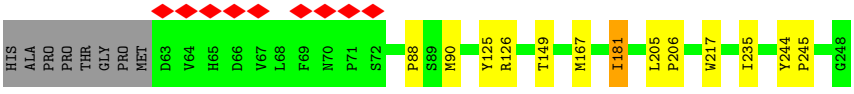




• Molecule 1: coat protein

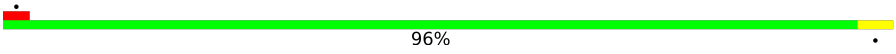
Chain Ai:





• Molecule 1: coat protein

Chain Aj:





• Molecule 1: coat protein

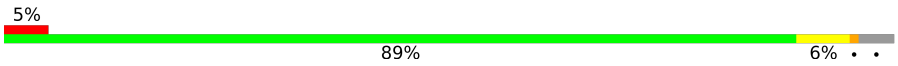
Chain Ak:

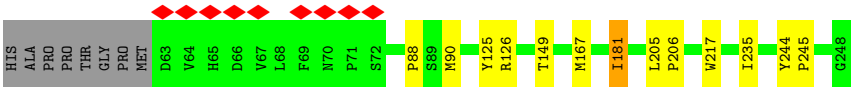




• Molecule 1: coat protein

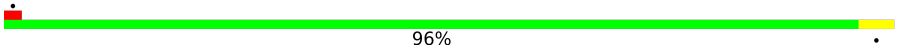
Chain Al:





• Molecule 1: coat protein

Chain Am:





• Molecule 1: coat protein

Chain An:

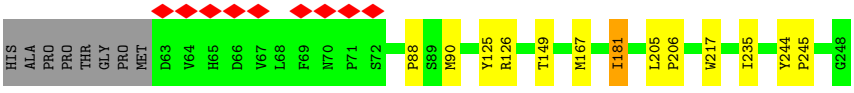




• Molecule 1: coat protein

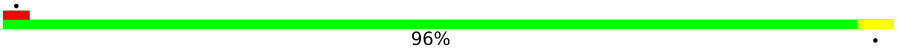
Chain Ao:





• Molecule 1: coat protein

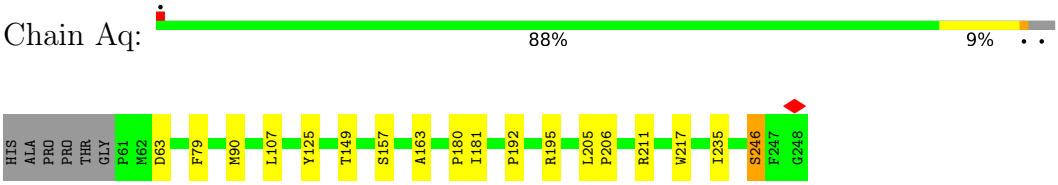
Chain Ap:





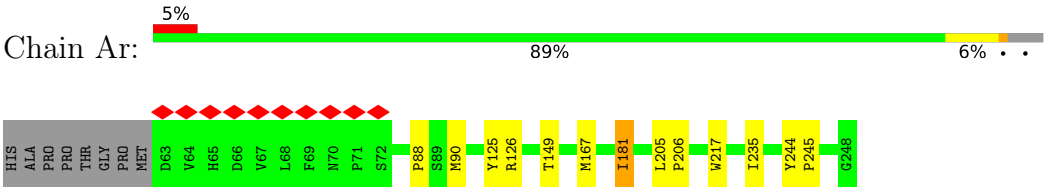
• Molecule 1: coat protein

Chain Aq:



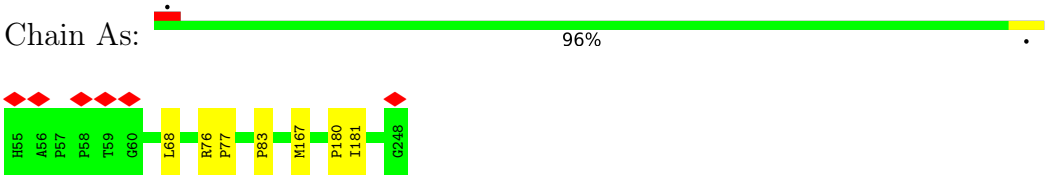
• Molecule 1: coat protein

Chain Ar:



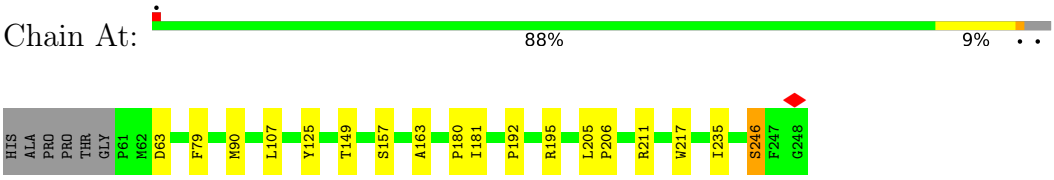
• Molecule 1: coat protein

Chain As:



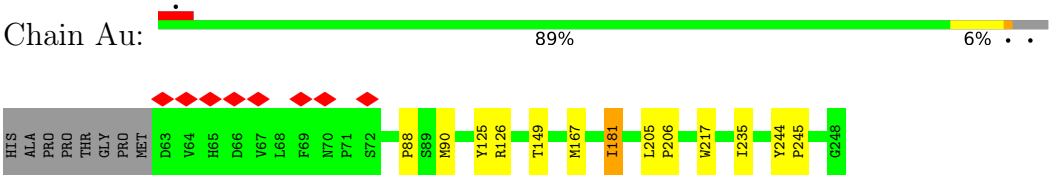
• Molecule 1: coat protein

Chain At:



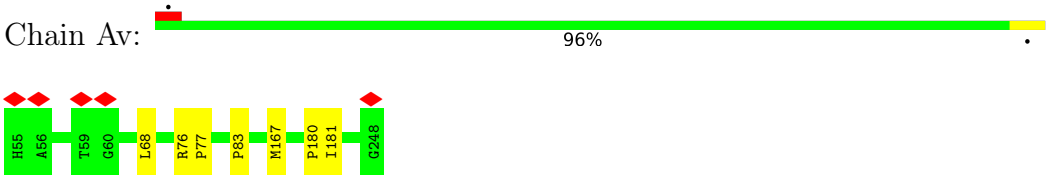
• Molecule 1: coat protein

Chain Au:



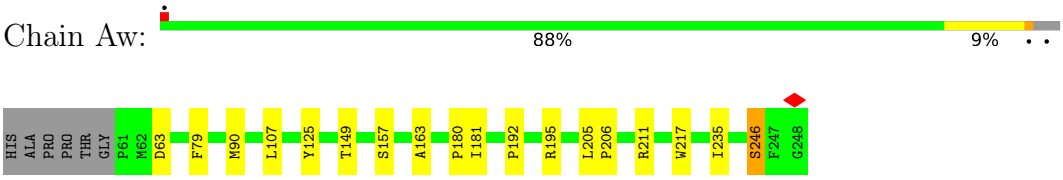
• Molecule 1: coat protein

Chain Av:



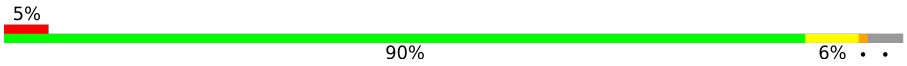
• Molecule 1: coat protein

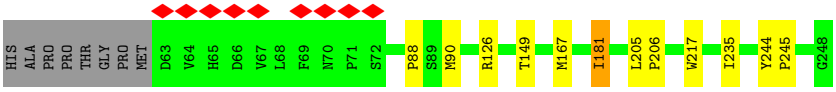
Chain Aw:



• Molecule 1: coat protein

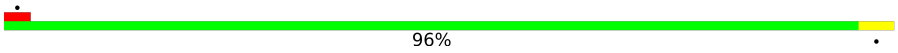
Chain Ax:





• Molecule 1: coat protein

Chain Ay:





• Molecule 1: coat protein

Chain Az:

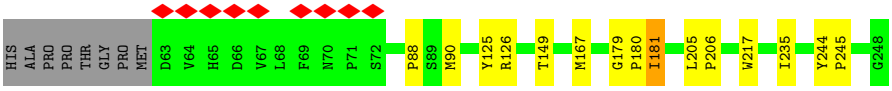




• Molecule 1: coat protein

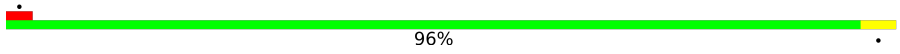
Chain A1:





• Molecule 1: coat protein

Chain A2:





• Molecule 1: coat protein

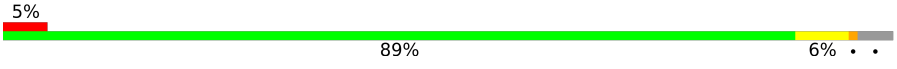
Chain A3:

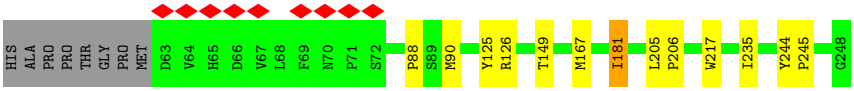




• Molecule 1: coat protein

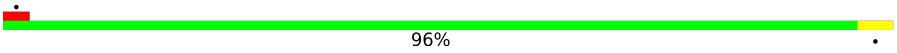
Chain A4:

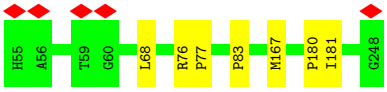




• Molecule 1: coat protein

Chain A5:





• Molecule 1: coat protein

Chain A6:

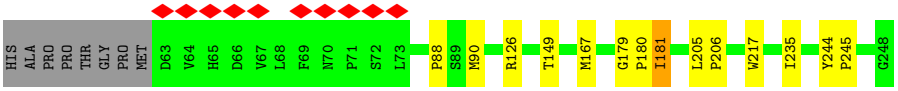




• Molecule 1: coat protein

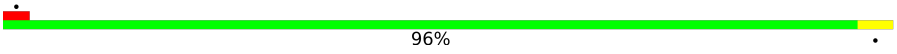
Chain A7:





• Molecule 1: coat protein

Chain A8:





• Molecule 1: coat protein

Chain A9:

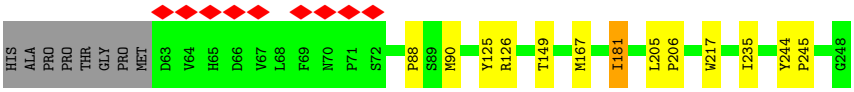




• Molecule 1: coat protein

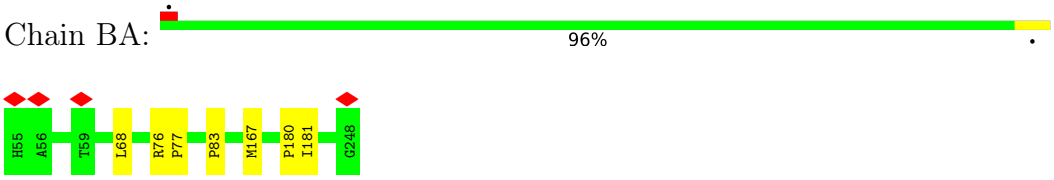
Chain A0:





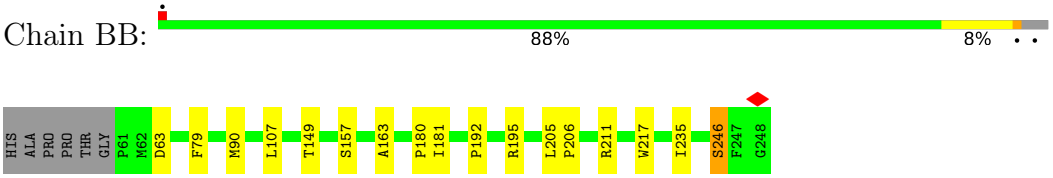
• Molecule 1: coat protein

Chain BA:



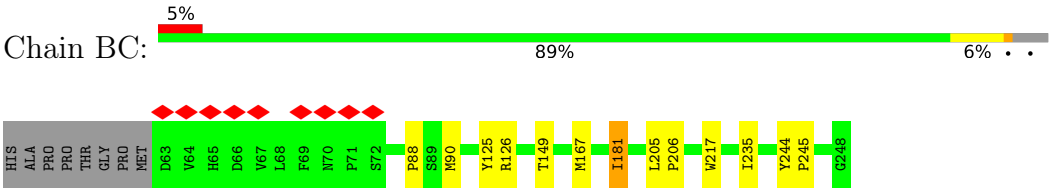
• Molecule 1: coat protein

Chain BB:



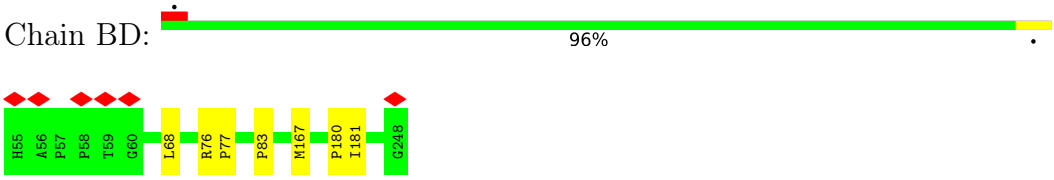
• Molecule 1: coat protein

Chain BC:



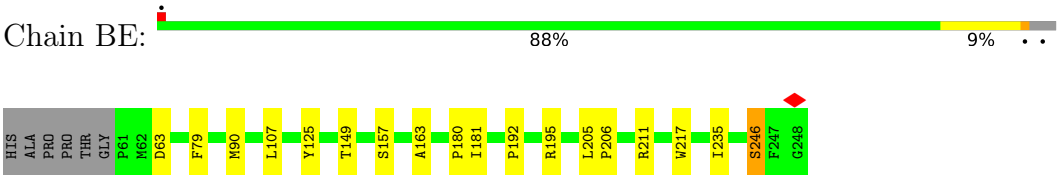
• Molecule 1: coat protein

Chain BD:



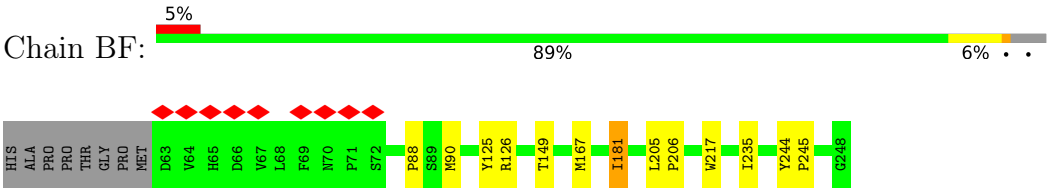
• Molecule 1: coat protein

Chain BE:



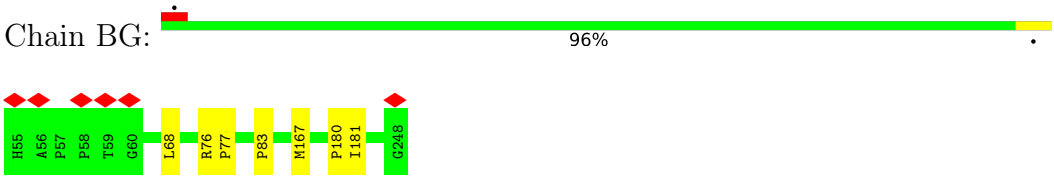
• Molecule 1: coat protein

Chain BF:



• Molecule 1: coat protein

Chain BG:



• Molecule 1: coat protein

Chain BH:

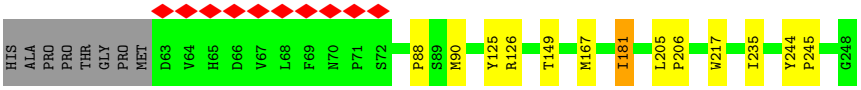




• Molecule 1: coat protein

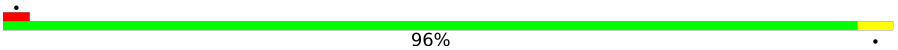
Chain BI:





• Molecule 1: coat protein

Chain BJ:





• Molecule 1: coat protein

Chain BK:

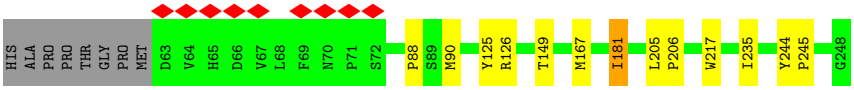




• Molecule 1: coat protein

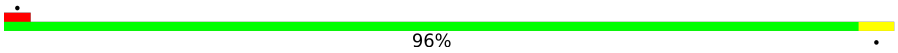
Chain BL:





• Molecule 1: coat protein

Chain BM:

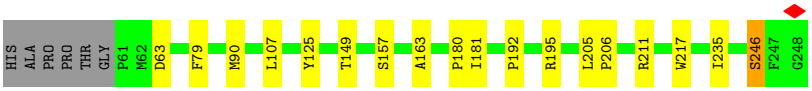




• Molecule 1: coat protein

Chain BN:

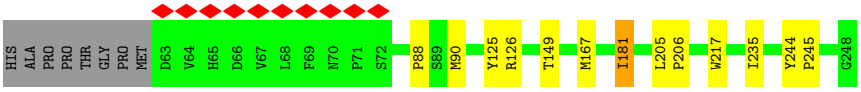




• Molecule 1: coat protein

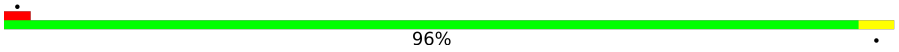
Chain BO:





• Molecule 1: coat protein

Chain BP:





• Molecule 1: coat protein

Chain BQ:

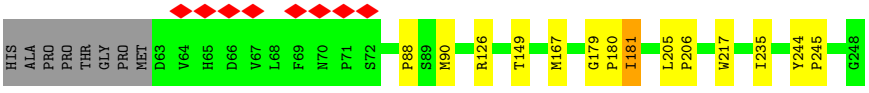




• Molecule 1: coat protein

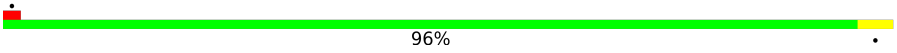
Chain BR:

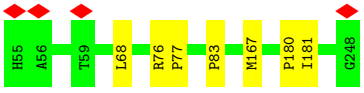




• Molecule 1: coat protein

Chain BS:

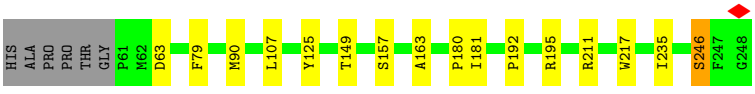




• Molecule 1: coat protein

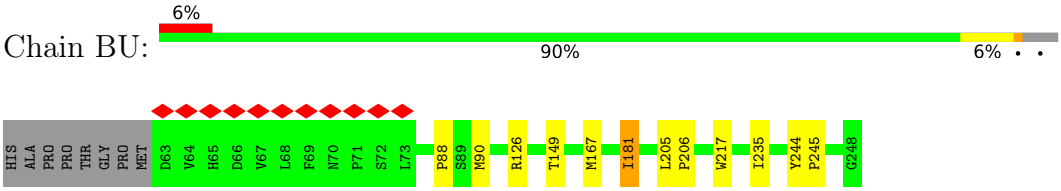
Chain BT:





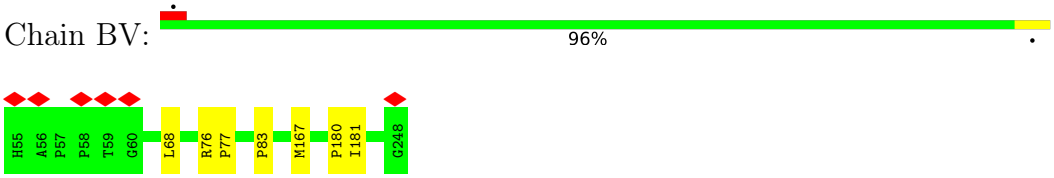
• Molecule 1: coat protein

Chain BU:



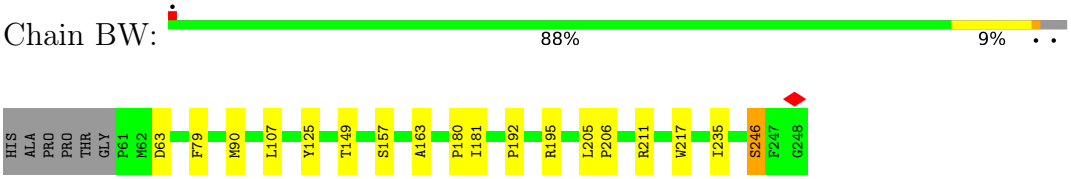
• Molecule 1: coat protein

Chain BV:



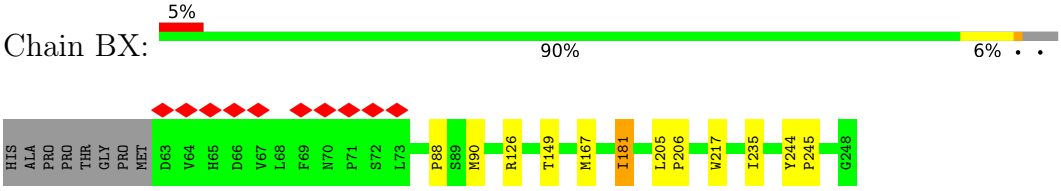
• Molecule 1: coat protein

Chain BW:



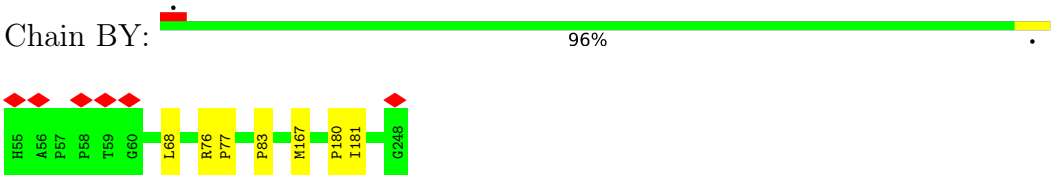
• Molecule 1: coat protein

Chain BX:



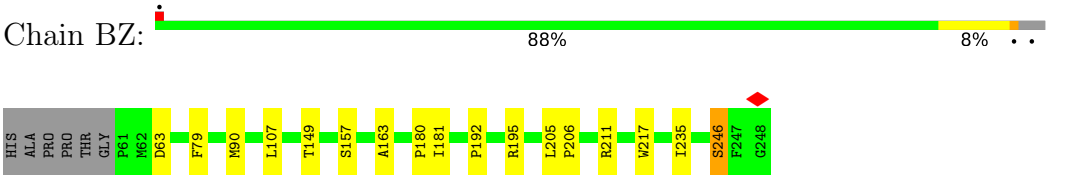
• Molecule 1: coat protein

Chain BY:



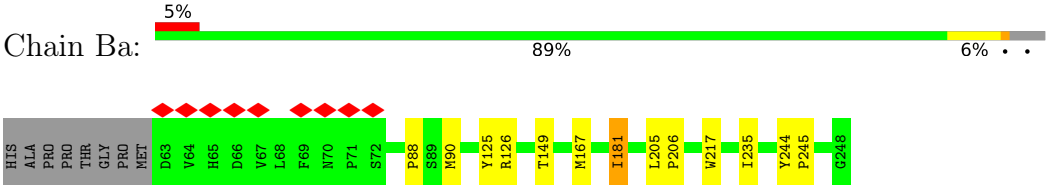
• Molecule 1: coat protein

Chain BZ:



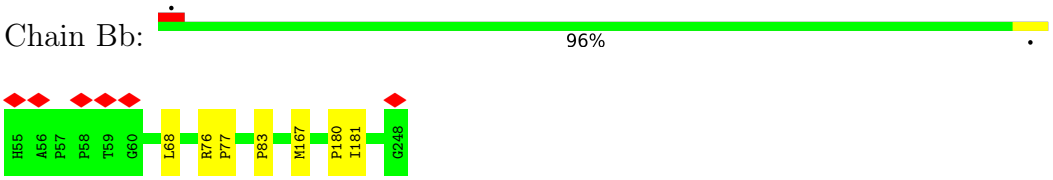
• Molecule 1: coat protein

Chain Ba:



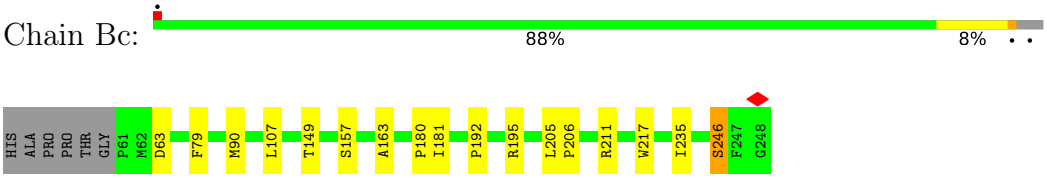
• Molecule 1: coat protein

Chain Bb:



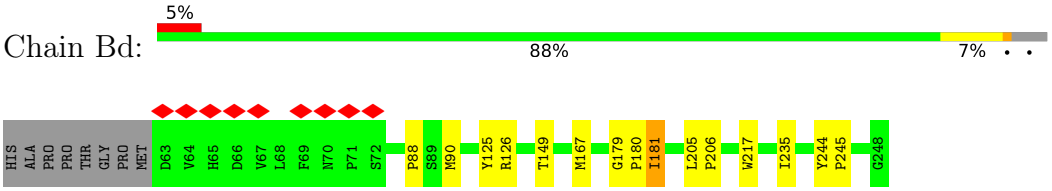
• Molecule 1: coat protein

Chain Bc:



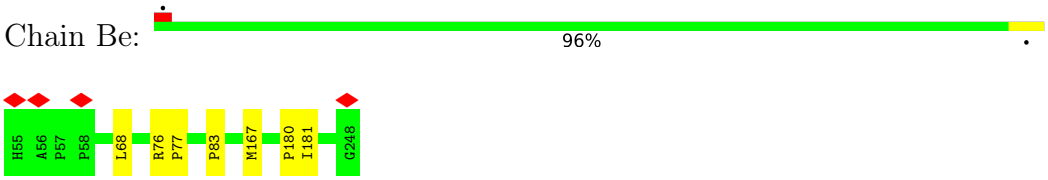
• Molecule 1: coat protein

Chain Bd:



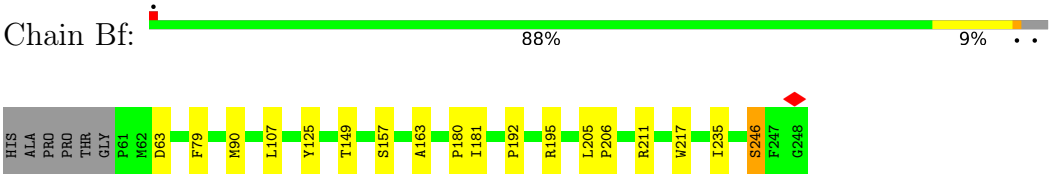
• Molecule 1: coat protein

Chain Be:



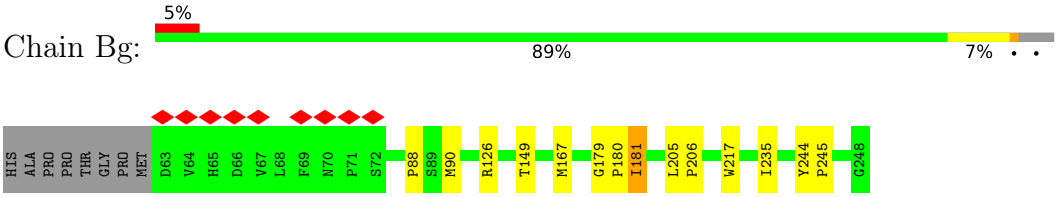
• Molecule 1: coat protein

Chain Bf:



• Molecule 1: coat protein

Chain Bg:



• Molecule 1: coat protein

Chain Bh:





• Molecule 1: coat protein

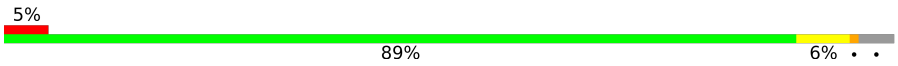
Chain Bi:

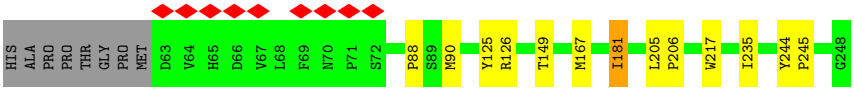




• Molecule 1: coat protein

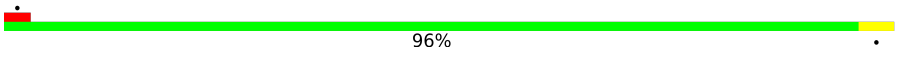
Chain Bj:

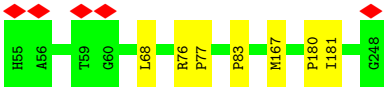




• Molecule 1: coat protein

Chain Bk:





• Molecule 1: coat protein

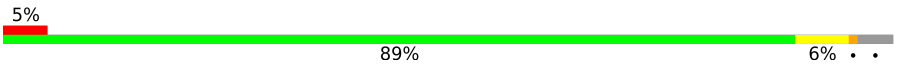
Chain Bl:

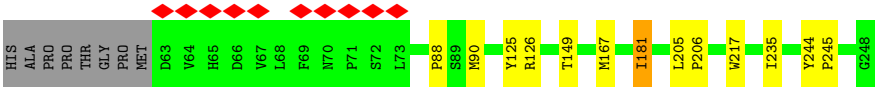




• Molecule 1: coat protein

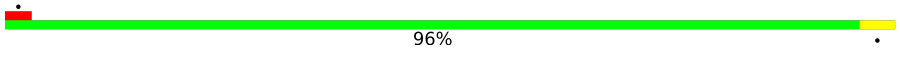
Chain Bm:





• Molecule 1: coat protein

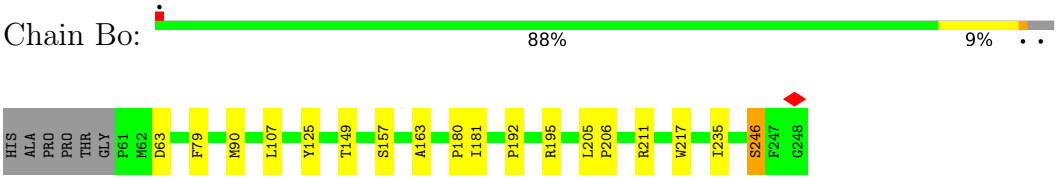
Chain Bn:





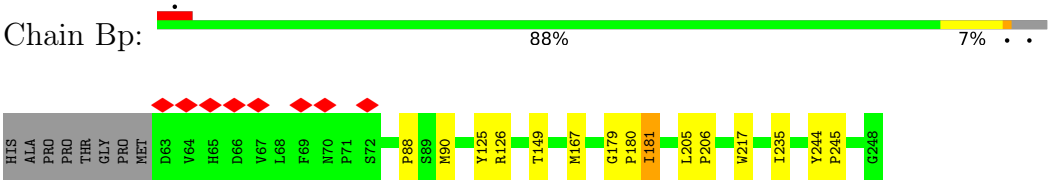
• Molecule 1: coat protein

Chain Bo:



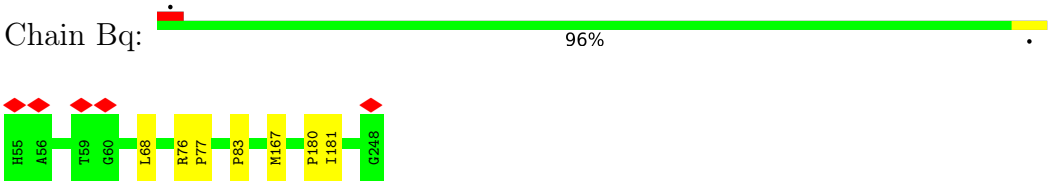
• Molecule 1: coat protein

Chain Bp:



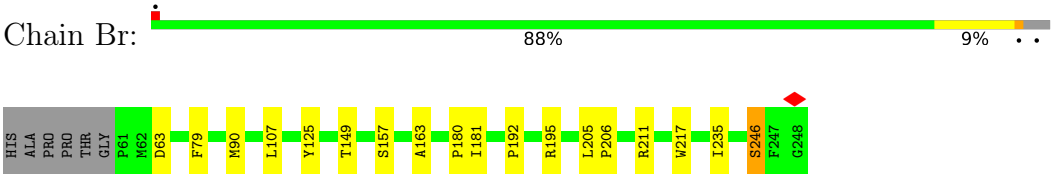
• Molecule 1: coat protein

Chain Bq:



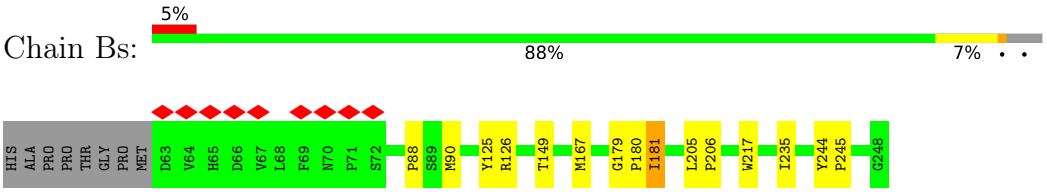
• Molecule 1: coat protein

Chain Br:



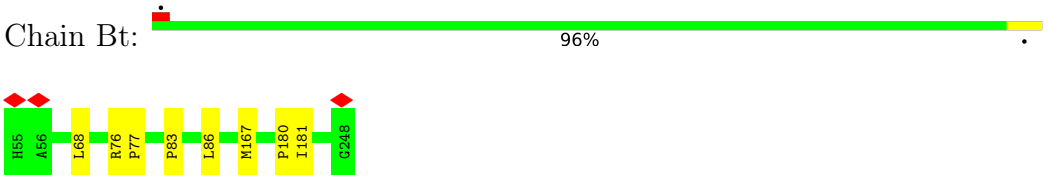
• Molecule 1: coat protein

Chain Bs:



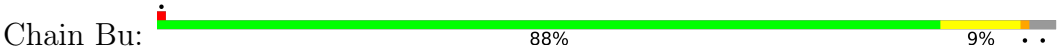
• Molecule 1: coat protein

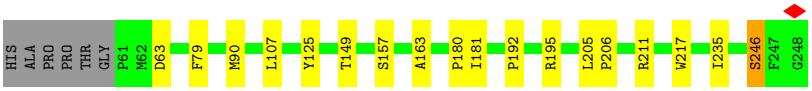
Chain Bt:



• Molecule 1: coat protein

Chain Bu:

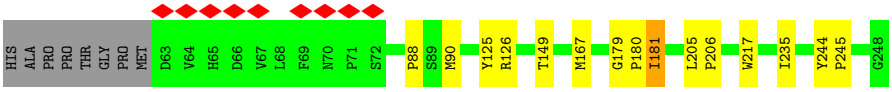




• Molecule 1: coat protein

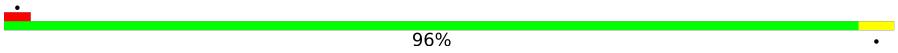
Chain Bv:





• Molecule 1: coat protein

Chain Bw:





• Molecule 1: coat protein

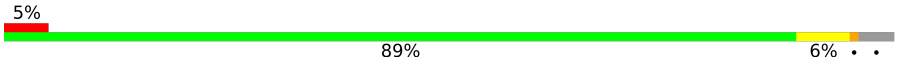
Chain Bx:

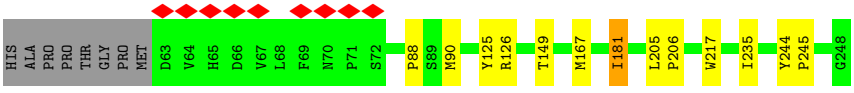




• Molecule 1: coat protein

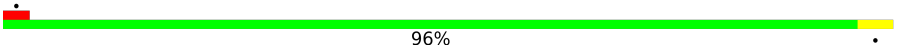
Chain By:

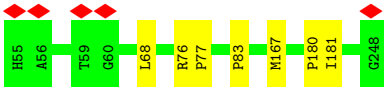




• Molecule 1: coat protein

Chain Bz:





• Molecule 1: coat protein

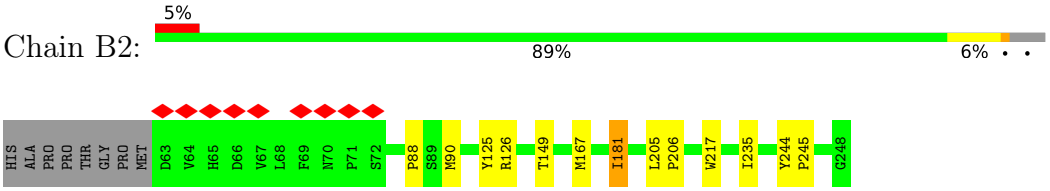
Chain B1:





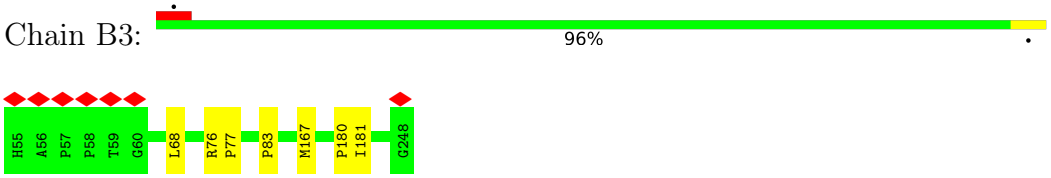
• Molecule 1: coat protein

Chain B2:



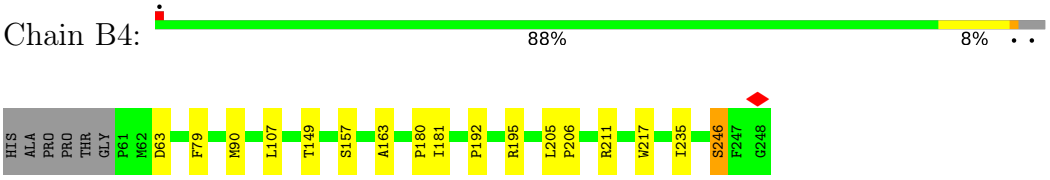
• Molecule 1: coat protein

Chain B3:



• Molecule 1: coat protein

Chain B4:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	97874	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 ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	TFS FALCON 4i (4k x 4k)	Depositor
Maximum map value	1.475	Depositor
Minimum map value	-0.002	Depositor
Average map value	0.003	Depositor
Map value standard deviation	0.037	Depositor
Recommended contour level	0.05	Depositor
Map size (Å)	582.0, 582.0, 582.0	wwPDB
Map dimensions	600, 600, 600	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.97, 0.97, 0.97	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	0	0.19	0/1521	0.32	0/2080
1	1	0.19	0/1521	0.32	0/2080
1	2	0.17	0/1478	0.39	1/2018 (0.0%)
1	3	0.18	0/1462	0.38	2/1997 (0.1%)
1	4	0.19	0/1521	0.32	0/2080
1	5	0.17	0/1478	0.39	1/2018 (0.0%)
1	6	0.17	0/1462	0.38	2/1997 (0.1%)
1	7	0.19	0/1521	0.32	0/2080
1	8	0.17	0/1478	0.39	1/2018 (0.0%)
1	9	0.18	0/1462	0.38	2/1997 (0.1%)
1	A	0.17	0/1462	0.38	2/1997 (0.1%)
1	A0	0.18	0/1462	0.38	2/1997 (0.1%)
1	A1	0.18	0/1462	0.38	2/1997 (0.1%)
1	A2	0.19	0/1521	0.32	0/2080
1	A3	0.17	0/1478	0.39	1/2018 (0.0%)
1	A4	0.18	0/1462	0.38	2/1997 (0.1%)
1	A5	0.19	0/1521	0.32	0/2080
1	A6	0.17	0/1478	0.39	1/2018 (0.0%)
1	A7	0.17	0/1462	0.38	2/1997 (0.1%)
1	A8	0.19	0/1521	0.32	0/2080
1	A9	0.17	0/1478	0.39	1/2018 (0.0%)
1	AA	0.17	0/1478	0.39	1/2018 (0.0%)
1	AB	0.18	0/1462	0.38	2/1997 (0.1%)
1	AC	0.19	0/1521	0.32	0/2080
1	AD	0.17	0/1478	0.39	1/2018 (0.0%)
1	AE	0.18	0/1462	0.38	2/1997 (0.1%)
1	AF	0.19	0/1521	0.32	0/2080
1	AG	0.17	0/1478	0.39	1/2018 (0.0%)
1	AH	0.18	0/1462	0.38	2/1997 (0.1%)
1	AI	0.19	0/1521	0.32	0/2080
1	AJ	0.17	0/1478	0.39	1/2018 (0.0%)
1	AK	0.18	0/1462	0.38	2/1997 (0.1%)
1	AL	0.19	0/1521	0.32	0/2080
1	AM	0.17	0/1478	0.39	1/2018 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	AN	0.18	0/1462	0.38	2/1997 (0.1%)
1	AO	0.19	0/1521	0.32	0/2080
1	AP	0.17	0/1478	0.39	1/2018 (0.0%)
1	AQ	0.18	0/1462	0.38	2/1997 (0.1%)
1	AR	0.19	0/1521	0.32	0/2080
1	AS	0.17	0/1478	0.39	1/2018 (0.0%)
1	AT	0.17	0/1462	0.38	2/1997 (0.1%)
1	AU	0.19	0/1521	0.32	0/2080
1	AV	0.17	0/1478	0.39	1/2018 (0.0%)
1	AW	0.18	0/1462	0.38	2/1997 (0.1%)
1	AX	0.19	0/1521	0.32	0/2080
1	AY	0.17	0/1478	0.39	1/2018 (0.0%)
1	AZ	0.18	0/1462	0.38	2/1997 (0.1%)
1	Aa	0.19	0/1521	0.32	0/2080
1	Ab	0.17	0/1478	0.39	1/2018 (0.0%)
1	Ac	0.17	0/1462	0.38	2/1997 (0.1%)
1	Ad	0.19	0/1521	0.32	0/2080
1	Ae	0.17	0/1478	0.39	1/2018 (0.0%)
1	Af	0.18	0/1462	0.38	2/1997 (0.1%)
1	Ag	0.19	0/1521	0.32	0/2080
1	Ah	0.17	0/1478	0.39	1/2018 (0.0%)
1	Ai	0.17	0/1462	0.38	2/1997 (0.1%)
1	Aj	0.19	0/1521	0.32	0/2080
1	Ak	0.17	0/1478	0.39	1/2018 (0.0%)
1	Al	0.18	0/1462	0.38	2/1997 (0.1%)
1	Am	0.19	0/1521	0.32	0/2080
1	An	0.17	0/1478	0.39	1/2018 (0.0%)
1	Ao	0.18	0/1462	0.38	2/1997 (0.1%)
1	Ap	0.19	0/1521	0.31	0/2080
1	Aq	0.17	0/1478	0.39	1/2018 (0.0%)
1	Ar	0.18	0/1462	0.38	2/1997 (0.1%)
1	As	0.19	0/1521	0.31	0/2080
1	At	0.17	0/1478	0.39	1/2018 (0.0%)
1	Au	0.18	0/1462	0.38	2/1997 (0.1%)
1	Av	0.19	0/1521	0.31	0/2080
1	Aw	0.17	0/1478	0.39	1/2018 (0.0%)
1	Ax	0.18	0/1462	0.38	2/1997 (0.1%)
1	Ay	0.19	0/1521	0.32	0/2080
1	Az	0.17	0/1478	0.39	1/2018 (0.0%)
1	B	0.19	0/1521	0.32	0/2080
1	B1	0.17	0/1478	0.39	1/2018 (0.0%)
1	B2	0.18	0/1462	0.38	2/1997 (0.1%)
1	B3	0.19	0/1521	0.32	0/2080

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	B4	0.17	0/1478	0.39	1/2018 (0.0%)
1	BA	0.19	0/1521	0.32	0/2080
1	BB	0.17	0/1478	0.39	1/2018 (0.0%)
1	BC	0.18	0/1462	0.38	2/1997 (0.1%)
1	BD	0.19	0/1521	0.32	0/2080
1	BE	0.17	0/1478	0.39	1/2018 (0.0%)
1	BF	0.18	0/1462	0.38	2/1997 (0.1%)
1	BG	0.19	0/1521	0.31	0/2080
1	BH	0.17	0/1478	0.39	1/2018 (0.0%)
1	BI	0.18	0/1462	0.38	2/1997 (0.1%)
1	BJ	0.19	0/1521	0.31	0/2080
1	BK	0.17	0/1478	0.39	1/2018 (0.0%)
1	BL	0.18	0/1462	0.38	2/1997 (0.1%)
1	BM	0.19	0/1521	0.31	0/2080
1	BN	0.17	0/1478	0.39	1/2018 (0.0%)
1	BO	0.18	0/1462	0.38	2/1997 (0.1%)
1	BP	0.19	0/1521	0.32	0/2080
1	BQ	0.17	0/1478	0.39	1/2018 (0.0%)
1	BR	0.17	0/1462	0.38	2/1997 (0.1%)
1	BS	0.19	0/1521	0.32	0/2080
1	BT	0.17	0/1478	0.39	1/2018 (0.0%)
1	BU	0.18	0/1462	0.38	2/1997 (0.1%)
1	BV	0.19	0/1521	0.32	0/2080
1	BW	0.17	0/1478	0.39	1/2018 (0.0%)
1	BX	0.17	0/1462	0.38	2/1997 (0.1%)
1	BY	0.19	0/1521	0.32	0/2080
1	BZ	0.17	0/1478	0.39	1/2018 (0.0%)
1	Ba	0.18	0/1462	0.38	2/1997 (0.1%)
1	Bb	0.19	0/1521	0.32	0/2080
1	Bc	0.17	0/1478	0.39	1/2018 (0.0%)
1	Bd	0.18	0/1462	0.38	2/1997 (0.1%)
1	Be	0.19	0/1521	0.32	0/2080
1	Bf	0.17	0/1478	0.39	1/2018 (0.0%)
1	Bg	0.18	0/1462	0.38	2/1997 (0.1%)
1	Bh	0.19	0/1521	0.32	0/2080
1	Bi	0.17	0/1478	0.39	1/2018 (0.0%)
1	Bj	0.18	0/1462	0.38	2/1997 (0.1%)
1	Bk	0.19	0/1521	0.32	0/2080
1	Bl	0.17	0/1478	0.39	1/2018 (0.0%)
1	Bm	0.18	0/1462	0.38	2/1997 (0.1%)
1	Bn	0.19	0/1521	0.32	0/2080
1	Bo	0.17	0/1478	0.39	1/2018 (0.0%)
1	Bp	0.18	0/1462	0.38	2/1997 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Bq	0.19	0/1521	0.32	0/2080
1	Br	0.17	0/1478	0.39	1/2018 (0.0%)
1	Bs	0.18	0/1462	0.38	2/1997 (0.1%)
1	Bt	0.19	0/1521	0.32	0/2080
1	Bu	0.17	0/1478	0.39	1/2018 (0.0%)
1	Bv	0.17	0/1462	0.38	2/1997 (0.1%)
1	Bw	0.19	0/1521	0.32	0/2080
1	Bx	0.17	0/1478	0.39	1/2018 (0.0%)
1	By	0.18	0/1462	0.38	2/1997 (0.1%)
1	Bz	0.19	0/1521	0.32	0/2080
1	C	0.17	0/1478	0.39	1/2018 (0.0%)
1	D	0.18	0/1462	0.38	2/1997 (0.1%)
1	E	0.19	0/1521	0.32	0/2080
1	F	0.17	0/1478	0.39	1/2018 (0.0%)
1	G	0.17	0/1462	0.38	2/1997 (0.1%)
1	H	0.19	0/1521	0.32	0/2080
1	I	0.17	0/1478	0.39	1/2018 (0.0%)
1	J	0.18	0/1462	0.38	2/1997 (0.1%)
1	K	0.19	0/1521	0.32	0/2080
1	L	0.17	0/1478	0.39	1/2018 (0.0%)
1	M	0.18	0/1462	0.38	2/1997 (0.1%)
1	N	0.19	0/1521	0.31	0/2080
1	O	0.17	0/1478	0.39	1/2018 (0.0%)
1	P	0.18	0/1462	0.38	2/1997 (0.1%)
1	Q	0.19	0/1521	0.31	0/2080
1	R	0.17	0/1478	0.39	1/2018 (0.0%)
1	S	0.18	0/1462	0.38	2/1997 (0.1%)
1	T	0.19	0/1521	0.31	0/2080
1	U	0.17	0/1478	0.39	1/2018 (0.0%)
1	V	0.18	0/1462	0.38	2/1997 (0.1%)
1	W	0.19	0/1521	0.32	0/2080
1	X	0.17	0/1478	0.39	1/2018 (0.0%)
1	Y	0.18	0/1462	0.38	2/1997 (0.1%)
1	Z	0.19	0/1521	0.32	0/2080
1	a	0.17	0/1478	0.39	1/2018 (0.0%)
1	b	0.18	0/1462	0.38	2/1997 (0.1%)
1	c	0.19	0/1521	0.32	0/2080
1	d	0.17	0/1478	0.39	1/2018 (0.0%)
1	e	0.17	0/1462	0.38	2/1997 (0.1%)
1	f	0.19	0/1521	0.32	0/2080
1	g	0.17	0/1478	0.39	1/2018 (0.0%)
1	h	0.18	0/1462	0.38	2/1997 (0.1%)
1	i	0.19	0/1521	0.32	0/2080

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	j	0.17	0/1478	0.39	1/2018 (0.0%)
1	k	0.18	0/1462	0.38	2/1997 (0.1%)
1	l	0.19	0/1521	0.32	0/2080
1	m	0.17	0/1478	0.39	1/2018 (0.0%)
1	n	0.18	0/1462	0.38	2/1997 (0.1%)
1	o	0.19	0/1521	0.31	0/2080
1	p	0.17	0/1478	0.39	1/2018 (0.0%)
1	q	0.18	0/1462	0.38	2/1997 (0.1%)
1	r	0.19	0/1521	0.31	0/2080
1	s	0.17	0/1478	0.39	1/2018 (0.0%)
1	t	0.18	0/1462	0.38	2/1997 (0.1%)
1	u	0.19	0/1521	0.31	0/2080
1	v	0.17	0/1478	0.39	1/2018 (0.0%)
1	w	0.18	0/1462	0.38	2/1997 (0.1%)
1	x	0.19	0/1521	0.32	0/2080
1	y	0.17	0/1478	0.39	1/2018 (0.0%)
1	z	0.17	0/1462	0.38	2/1997 (0.1%)
All	All	0.18	0/267660	0.36	180/365700 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	2	0	1
1	5	0	1
1	8	0	1
1	A3	0	1
1	A6	0	1
1	A9	0	1
1	AA	0	1
1	AD	0	1
1	AG	0	1
1	AJ	0	1
1	AM	0	1
1	AP	0	1
1	AS	0	1
1	AV	0	1
1	AY	0	1
1	Ab	0	1
1	Ae	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	Ah	0	1
1	Ak	0	1
1	An	0	1
1	Aq	0	1
1	At	0	1
1	Aw	0	1
1	Az	0	1
1	B1	0	1
1	B4	0	1
1	BB	0	1
1	BE	0	1
1	BH	0	1
1	BK	0	1
1	BN	0	1
1	BQ	0	1
1	BT	0	1
1	BW	0	1
1	BZ	0	1
1	Bc	0	1
1	Bf	0	1
1	Bi	0	1
1	Bl	0	1
1	Bo	0	1
1	Br	0	1
1	Bu	0	1
1	Bx	0	1
1	C	0	1
1	F	0	1
1	I	0	1
1	L	0	1
1	O	0	1
1	R	0	1
1	U	0	1
1	X	0	1
1	a	0	1
1	d	0	1
1	g	0	1
1	j	0	1
1	m	0	1
1	p	0	1
1	s	0	1
1	v	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	y	0	1
All	All	0	60

There are no bond length outliers.

All (180) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	246	SER	O-C-N	-8.30	111.98	123.11
1	R	246	SER	O-C-N	-8.30	111.98	123.11
1	U	246	SER	O-C-N	-8.30	111.98	123.11
1	p	246	SER	O-C-N	-8.30	111.98	123.11
1	s	246	SER	O-C-N	-8.30	111.98	123.11
1	v	246	SER	O-C-N	-8.30	111.98	123.11
1	Aq	246	SER	O-C-N	-8.30	111.98	123.11
1	At	246	SER	O-C-N	-8.30	111.98	123.11
1	Aw	246	SER	O-C-N	-8.30	111.98	123.11
1	BH	246	SER	O-C-N	-8.30	111.98	123.11
1	BK	246	SER	O-C-N	-8.30	111.98	123.11
1	BN	246	SER	O-C-N	-8.30	111.98	123.11
1	C	246	SER	O-C-N	-8.29	112.00	123.11
1	I	246	SER	O-C-N	-8.29	112.00	123.11
1	g	246	SER	O-C-N	-8.29	112.00	123.11
1	2	246	SER	O-C-N	-8.29	112.00	123.11
1	8	246	SER	O-C-N	-8.29	112.00	123.11
1	AV	246	SER	O-C-N	-8.29	112.00	123.11
1	Ae	246	SER	O-C-N	-8.29	112.00	123.11
1	Ak	246	SER	O-C-N	-8.29	112.00	123.11
1	A9	246	SER	O-C-N	-8.29	112.00	123.11
1	BT	246	SER	O-C-N	-8.29	112.00	123.11
1	BZ	246	SER	O-C-N	-8.29	112.00	123.11
1	Bx	246	SER	O-C-N	-8.29	112.00	123.11
1	X	246	SER	O-C-N	-8.29	112.01	123.11
1	a	246	SER	O-C-N	-8.29	112.01	123.11
1	d	246	SER	O-C-N	-8.29	112.01	123.11
1	AG	246	SER	O-C-N	-8.29	112.01	123.11
1	AJ	246	SER	O-C-N	-8.29	112.01	123.11
1	AM	246	SER	O-C-N	-8.29	112.01	123.11
1	Az	246	SER	O-C-N	-8.29	112.01	123.11
1	A3	246	SER	O-C-N	-8.29	112.01	123.11
1	A6	246	SER	O-C-N	-8.29	112.01	123.11
1	Bi	246	SER	O-C-N	-8.29	112.01	123.11
1	Bl	246	SER	O-C-N	-8.29	112.01	123.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Bo	246	SER	O-C-N	-8.29	112.01	123.11
1	L	246	SER	O-C-N	-8.26	112.04	123.11
1	j	246	SER	O-C-N	-8.26	112.04	123.11
1	5	246	SER	O-C-N	-8.26	112.04	123.11
1	AA	246	SER	O-C-N	-8.26	112.04	123.11
1	AP	246	SER	O-C-N	-8.26	112.04	123.11
1	AY	246	SER	O-C-N	-8.26	112.04	123.11
1	An	246	SER	O-C-N	-8.26	112.04	123.11
1	BB	246	SER	O-C-N	-8.26	112.04	123.11
1	BW	246	SER	O-C-N	-8.26	112.04	123.11
1	Bc	246	SER	O-C-N	-8.26	112.04	123.11
1	Br	246	SER	O-C-N	-8.26	112.04	123.11
1	B1	246	SER	O-C-N	-8.26	112.04	123.11
1	F	246	SER	O-C-N	-8.24	112.06	123.11
1	m	246	SER	O-C-N	-8.24	112.06	123.11
1	y	246	SER	O-C-N	-8.24	112.06	123.11
1	AD	246	SER	O-C-N	-8.24	112.06	123.11
1	AS	246	SER	O-C-N	-8.24	112.06	123.11
1	Ab	246	SER	O-C-N	-8.24	112.06	123.11
1	Ah	246	SER	O-C-N	-8.24	112.06	123.11
1	BE	246	SER	O-C-N	-8.24	112.06	123.11
1	BQ	246	SER	O-C-N	-8.24	112.06	123.11
1	Bf	246	SER	O-C-N	-8.24	112.06	123.11
1	Bu	246	SER	O-C-N	-8.24	112.06	123.11
1	B4	246	SER	O-C-N	-8.24	112.06	123.11
1	M	245	PRO	N-CA-C	5.41	123.62	112.47
1	P	245	PRO	N-CA-C	5.41	123.62	112.47
1	S	245	PRO	N-CA-C	5.41	123.62	112.47
1	n	245	PRO	N-CA-C	5.41	123.62	112.47
1	q	245	PRO	N-CA-C	5.41	123.62	112.47
1	t	245	PRO	N-CA-C	5.41	123.62	112.47
1	Ao	245	PRO	N-CA-C	5.41	123.62	112.47
1	Ar	245	PRO	N-CA-C	5.41	123.62	112.47
1	Au	245	PRO	N-CA-C	5.41	123.62	112.47
1	BF	245	PRO	N-CA-C	5.41	123.62	112.47
1	BI	245	PRO	N-CA-C	5.41	123.62	112.47
1	BL	245	PRO	N-CA-C	5.41	123.62	112.47
1	A	245	PRO	N-CA-C	5.40	123.59	112.47
1	G	245	PRO	N-CA-C	5.40	123.59	112.47
1	e	245	PRO	N-CA-C	5.40	123.59	112.47
1	z	245	PRO	N-CA-C	5.40	123.59	112.47
1	6	245	PRO	N-CA-C	5.40	123.59	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AT	245	PRO	N-CA-C	5.40	123.59	112.47
1	Ac	245	PRO	N-CA-C	5.40	123.59	112.47
1	Ai	245	PRO	N-CA-C	5.40	123.59	112.47
1	A7	245	PRO	N-CA-C	5.40	123.59	112.47
1	BR	245	PRO	N-CA-C	5.40	123.59	112.47
1	BX	245	PRO	N-CA-C	5.40	123.59	112.47
1	Bv	245	PRO	N-CA-C	5.40	123.59	112.47
1	D	245	PRO	N-CA-C	5.39	123.57	112.47
1	k	245	PRO	N-CA-C	5.39	123.57	112.47
1	w	245	PRO	N-CA-C	5.39	123.57	112.47
1	AB	245	PRO	N-CA-C	5.39	123.57	112.47
1	AQ	245	PRO	N-CA-C	5.39	123.57	112.47
1	AZ	245	PRO	N-CA-C	5.39	123.57	112.47
1	Af	245	PRO	N-CA-C	5.39	123.57	112.47
1	BC	245	PRO	N-CA-C	5.39	123.57	112.47
1	BO	245	PRO	N-CA-C	5.39	123.57	112.47
1	Bd	245	PRO	N-CA-C	5.39	123.57	112.47
1	Bs	245	PRO	N-CA-C	5.39	123.57	112.47
1	B2	245	PRO	N-CA-C	5.39	123.57	112.47
1	V	245	PRO	N-CA-C	5.39	123.56	112.47
1	Y	245	PRO	N-CA-C	5.39	123.56	112.47
1	b	245	PRO	N-CA-C	5.39	123.56	112.47
1	AE	245	PRO	N-CA-C	5.39	123.56	112.47
1	AH	245	PRO	N-CA-C	5.39	123.56	112.47
1	AK	245	PRO	N-CA-C	5.39	123.56	112.47
1	Ax	245	PRO	N-CA-C	5.39	123.56	112.47
1	A1	245	PRO	N-CA-C	5.39	123.56	112.47
1	A4	245	PRO	N-CA-C	5.39	123.56	112.47
1	Bg	245	PRO	N-CA-C	5.39	123.56	112.47
1	Bj	245	PRO	N-CA-C	5.39	123.56	112.47
1	Bm	245	PRO	N-CA-C	5.39	123.56	112.47
1	J	245	PRO	N-CA-C	5.38	123.54	112.47
1	h	245	PRO	N-CA-C	5.38	123.54	112.47
1	3	245	PRO	N-CA-C	5.38	123.54	112.47
1	9	245	PRO	N-CA-C	5.38	123.54	112.47
1	AN	245	PRO	N-CA-C	5.38	123.54	112.47
1	AW	245	PRO	N-CA-C	5.38	123.54	112.47
1	Al	245	PRO	N-CA-C	5.38	123.54	112.47
1	A0	245	PRO	N-CA-C	5.38	123.54	112.47
1	BU	245	PRO	N-CA-C	5.38	123.54	112.47
1	Ba	245	PRO	N-CA-C	5.38	123.54	112.47
1	Bp	245	PRO	N-CA-C	5.38	123.54	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	By	245	PRO	N-CA-C	5.38	123.54	112.47
1	M	181	ILE	N-CA-C	-5.31	108.10	113.20
1	P	181	ILE	N-CA-C	-5.31	108.10	113.20
1	S	181	ILE	N-CA-C	-5.31	108.10	113.20
1	n	181	ILE	N-CA-C	-5.31	108.10	113.20
1	q	181	ILE	N-CA-C	-5.31	108.10	113.20
1	t	181	ILE	N-CA-C	-5.31	108.10	113.20
1	Ao	181	ILE	N-CA-C	-5.31	108.10	113.20
1	Ar	181	ILE	N-CA-C	-5.31	108.10	113.20
1	Au	181	ILE	N-CA-C	-5.31	108.10	113.20
1	BF	181	ILE	N-CA-C	-5.31	108.10	113.20
1	BI	181	ILE	N-CA-C	-5.31	108.10	113.20
1	BL	181	ILE	N-CA-C	-5.31	108.10	113.20
1	A	181	ILE	N-CA-C	-5.28	108.13	113.20
1	G	181	ILE	N-CA-C	-5.28	108.13	113.20
1	e	181	ILE	N-CA-C	-5.28	108.13	113.20
1	z	181	ILE	N-CA-C	-5.28	108.13	113.20
1	6	181	ILE	N-CA-C	-5.28	108.13	113.20
1	AT	181	ILE	N-CA-C	-5.28	108.13	113.20
1	Ac	181	ILE	N-CA-C	-5.28	108.13	113.20
1	Ai	181	ILE	N-CA-C	-5.28	108.13	113.20
1	A7	181	ILE	N-CA-C	-5.28	108.13	113.20
1	BR	181	ILE	N-CA-C	-5.28	108.13	113.20
1	BX	181	ILE	N-CA-C	-5.28	108.13	113.20
1	Bv	181	ILE	N-CA-C	-5.28	108.13	113.20
1	D	181	ILE	N-CA-C	-5.27	108.14	113.20
1	k	181	ILE	N-CA-C	-5.27	108.14	113.20
1	w	181	ILE	N-CA-C	-5.27	108.14	113.20
1	AB	181	ILE	N-CA-C	-5.27	108.14	113.20
1	AQ	181	ILE	N-CA-C	-5.27	108.14	113.20
1	AZ	181	ILE	N-CA-C	-5.27	108.14	113.20
1	Af	181	ILE	N-CA-C	-5.27	108.14	113.20
1	BC	181	ILE	N-CA-C	-5.27	108.14	113.20
1	BO	181	ILE	N-CA-C	-5.27	108.14	113.20
1	Bd	181	ILE	N-CA-C	-5.27	108.14	113.20
1	Bs	181	ILE	N-CA-C	-5.27	108.14	113.20
1	B2	181	ILE	N-CA-C	-5.27	108.14	113.20
1	V	181	ILE	N-CA-C	-5.26	108.15	113.20
1	Y	181	ILE	N-CA-C	-5.26	108.15	113.20
1	b	181	ILE	N-CA-C	-5.26	108.15	113.20
1	AE	181	ILE	N-CA-C	-5.26	108.15	113.20
1	AH	181	ILE	N-CA-C	-5.26	108.15	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AK	181	ILE	N-CA-C	-5.26	108.15	113.20
1	Ax	181	ILE	N-CA-C	-5.26	108.15	113.20
1	A1	181	ILE	N-CA-C	-5.26	108.15	113.20
1	A4	181	ILE	N-CA-C	-5.26	108.15	113.20
1	Bg	181	ILE	N-CA-C	-5.26	108.15	113.20
1	Bj	181	ILE	N-CA-C	-5.26	108.15	113.20
1	Bm	181	ILE	N-CA-C	-5.26	108.15	113.20
1	J	181	ILE	N-CA-C	-5.25	108.16	113.20
1	h	181	ILE	N-CA-C	-5.25	108.16	113.20
1	3	181	ILE	N-CA-C	-5.25	108.16	113.20
1	9	181	ILE	N-CA-C	-5.25	108.16	113.20
1	AN	181	ILE	N-CA-C	-5.25	108.16	113.20
1	AW	181	ILE	N-CA-C	-5.25	108.16	113.20
1	Al	181	ILE	N-CA-C	-5.25	108.16	113.20
1	A0	181	ILE	N-CA-C	-5.25	108.16	113.20
1	BU	181	ILE	N-CA-C	-5.25	108.16	113.20
1	Ba	181	ILE	N-CA-C	-5.25	108.16	113.20
1	Bp	181	ILE	N-CA-C	-5.25	108.16	113.20
1	By	181	ILE	N-CA-C	-5.25	108.16	113.20

There are no chirality outliers.

All (60) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	2	246	SER	Mainchain
1	5	246	SER	Mainchain
1	8	246	SER	Mainchain
1	A3	246	SER	Mainchain
1	A6	246	SER	Mainchain
1	A9	246	SER	Mainchain
1	AA	246	SER	Mainchain
1	AD	246	SER	Mainchain
1	AG	246	SER	Mainchain
1	AJ	246	SER	Mainchain
1	AM	246	SER	Mainchain
1	AP	246	SER	Mainchain
1	AS	246	SER	Mainchain
1	AV	246	SER	Mainchain
1	AY	246	SER	Mainchain
1	Ab	246	SER	Mainchain
1	Ae	246	SER	Mainchain
1	Ah	246	SER	Mainchain

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Mol	Chain	Res	Type	Group
1	Ak	246	SER	Mainchain
1	An	246	SER	Mainchain
1	Aq	246	SER	Mainchain
1	At	246	SER	Mainchain
1	Aw	246	SER	Mainchain
1	Az	246	SER	Mainchain
1	B1	246	SER	Mainchain
1	B4	246	SER	Mainchain
1	BB	246	SER	Mainchain
1	BE	246	SER	Mainchain
1	BH	246	SER	Mainchain
1	BK	246	SER	Mainchain
1	BN	246	SER	Mainchain
1	BQ	246	SER	Mainchain
1	BT	246	SER	Mainchain
1	BW	246	SER	Mainchain
1	BZ	246	SER	Mainchain
1	Bc	246	SER	Mainchain
1	Bf	246	SER	Mainchain
1	Bi	246	SER	Mainchain
1	Bl	246	SER	Mainchain
1	Bo	246	SER	Mainchain
1	Br	246	SER	Mainchain
1	Bu	246	SER	Mainchain
1	Bx	246	SER	Mainchain
1	C	246	SER	Mainchain
1	F	246	SER	Mainchain
1	I	246	SER	Mainchain
1	L	246	SER	Mainchain
1	O	246	SER	Mainchain
1	R	246	SER	Mainchain
1	U	246	SER	Mainchain
1	X	246	SER	Mainchain
1	a	246	SER	Mainchain
1	d	246	SER	Mainchain
1	g	246	SER	Mainchain
1	j	246	SER	Mainchain
1	m	246	SER	Mainchain
1	p	246	SER	Mainchain
1	s	246	SER	Mainchain
1	v	246	SER	Mainchain
1	y	246	SER	Mainchain

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	1477	0	1477	12	0
1	1	1477	0	1477	13	0
1	2	1437	0	1442	24	0
1	3	1422	0	1425	22	0
1	4	1477	0	1477	12	0
1	5	1437	0	1442	25	0
1	6	1422	0	1425	24	0
1	7	1477	0	1477	13	0
1	8	1437	0	1442	22	0
1	9	1422	0	1425	24	0
1	A	1422	0	1425	26	0
1	A0	1422	0	1425	24	0
1	A1	1422	0	1425	25	0
1	A2	1477	0	1477	12	0
1	A3	1437	0	1442	23	0
1	A4	1422	0	1425	24	0
1	A5	1477	0	1477	12	0
1	A6	1437	0	1442	23	0
1	A7	1422	0	1425	24	0
1	A8	1477	0	1477	12	0
1	A9	1437	0	1442	22	0
1	AA	1437	0	1442	24	0
1	AB	1422	0	1425	22	0
1	AC	1477	0	1477	12	0
1	AD	1437	0	1442	25	0
1	AE	1422	0	1425	23	0
1	AF	1477	0	1477	12	0
1	AG	1437	0	1442	24	0
1	AH	1422	0	1425	21	0
1	AI	1477	0	1477	12	0
1	AJ	1437	0	1442	23	0
1	AK	1422	0	1425	23	0
1	AL	1477	0	1477	12	0
1	AM	1437	0	1442	23	0
1	AN	1422	0	1425	23	0
1	AO	1477	0	1477	12	0
1	AP	1437	0	1442	23	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AQ	1422	0	1425	25	0
1	AR	1477	0	1477	12	0
1	AS	1437	0	1442	23	0
1	AT	1422	0	1425	26	0
1	AU	1477	0	1477	12	0
1	AV	1437	0	1442	21	0
1	AW	1422	0	1425	23	0
1	AX	1477	0	1477	11	0
1	AY	1437	0	1442	23	0
1	AZ	1422	0	1425	24	0
1	Aa	1477	0	1477	13	0
1	Ab	1437	0	1442	23	0
1	Ac	1422	0	1425	23	0
1	Ad	1477	0	1477	13	0
1	Ae	1437	0	1442	25	0
1	Af	1422	0	1425	25	0
1	Ag	1477	0	1477	12	0
1	Ah	1437	0	1442	25	0
1	Ai	1422	0	1425	24	0
1	Aj	1477	0	1477	13	0
1	Ak	1437	0	1442	23	0
1	Al	1422	0	1425	24	0
1	Am	1477	0	1477	12	0
1	An	1437	0	1442	24	0
1	Ao	1422	0	1425	25	0
1	Ap	1477	0	1477	12	0
1	Aq	1437	0	1442	24	0
1	Ar	1422	0	1425	25	0
1	As	1477	0	1477	11	0
1	At	1437	0	1442	23	0
1	Au	1422	0	1425	24	0
1	Av	1477	0	1477	12	0
1	Aw	1437	0	1442	24	0
1	Ax	1422	0	1425	23	0
1	Ay	1477	0	1477	13	0
1	Az	1437	0	1442	24	0
1	B	1477	0	1477	12	0
1	B1	1437	0	1442	22	0
1	B2	1422	0	1425	24	0
1	B3	1477	0	1477	12	0
1	B4	1437	0	1442	23	0
1	BA	1477	0	1477	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	BB	1437	0	1442	23	0
1	BC	1422	0	1425	23	0
1	BD	1477	0	1477	12	0
1	BE	1437	0	1442	24	0
1	BF	1422	0	1425	24	0
1	BG	1477	0	1477	12	0
1	BH	1437	0	1442	23	0
1	BI	1422	0	1425	25	0
1	BJ	1477	0	1477	12	0
1	BK	1437	0	1442	23	0
1	BL	1422	0	1425	23	0
1	BM	1477	0	1477	12	0
1	BN	1437	0	1442	24	0
1	BO	1422	0	1425	23	0
1	BP	1477	0	1477	12	0
1	BQ	1437	0	1442	24	0
1	BR	1422	0	1425	24	0
1	BS	1477	0	1477	12	0
1	BT	1437	0	1442	22	0
1	BU	1422	0	1425	23	0
1	BV	1477	0	1477	12	0
1	BW	1437	0	1442	25	0
1	BX	1422	0	1425	22	0
1	BY	1477	0	1477	11	0
1	BZ	1437	0	1442	23	0
1	Ba	1422	0	1425	23	0
1	Bb	1477	0	1477	12	0
1	Bc	1437	0	1442	22	0
1	Bd	1422	0	1425	24	0
1	Be	1477	0	1477	12	0
1	Bf	1437	0	1442	24	0
1	Bg	1422	0	1425	23	0
1	Bh	1477	0	1477	12	0
1	Bi	1437	0	1442	23	0
1	Bj	1422	0	1425	24	0
1	Bk	1477	0	1477	12	0
1	Bl	1437	0	1442	25	0
1	Bm	1422	0	1425	25	0
1	Bn	1477	0	1477	13	0
1	Bo	1437	0	1442	24	0
1	Bp	1422	0	1425	24	0
1	Bq	1477	0	1477	11	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Br	1437	0	1442	24	0
1	Bs	1422	0	1425	25	0
1	Bt	1477	0	1477	13	0
1	Bu	1437	0	1442	23	0
1	Bv	1422	0	1425	24	0
1	Bw	1477	0	1477	13	0
1	Bx	1437	0	1442	25	0
1	By	1422	0	1425	23	0
1	Bz	1477	0	1477	12	0
1	C	1437	0	1442	23	0
1	D	1422	0	1425	24	0
1	E	1477	0	1477	12	0
1	F	1437	0	1442	23	0
1	G	1422	0	1425	24	0
1	H	1477	0	1477	11	0
1	I	1437	0	1442	24	0
1	J	1422	0	1425	22	0
1	K	1477	0	1477	12	0
1	L	1437	0	1442	23	0
1	M	1422	0	1425	23	0
1	N	1477	0	1477	12	0
1	O	1437	0	1442	25	0
1	P	1422	0	1425	23	0
1	Q	1477	0	1477	13	0
1	R	1437	0	1442	23	0
1	S	1422	0	1425	23	0
1	T	1477	0	1477	12	0
1	U	1437	0	1442	23	0
1	V	1422	0	1425	21	0
1	W	1477	0	1477	12	0
1	X	1437	0	1442	23	0
1	Y	1422	0	1425	24	0
1	Z	1477	0	1477	12	0
1	a	1437	0	1442	25	0
1	b	1422	0	1425	22	0
1	c	1477	0	1477	12	0
1	d	1437	0	1442	24	0
1	e	1422	0	1425	23	0
1	f	1477	0	1477	13	0
1	g	1437	0	1442	24	0
1	h	1422	0	1425	23	0
1	i	1477	0	1477	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	1437	0	1442	24	0
1	k	1422	0	1425	27	0
1	l	1477	0	1477	12	0
1	m	1437	0	1442	24	0
1	n	1422	0	1425	22	0
1	o	1477	0	1477	13	0
1	p	1437	0	1442	25	0
1	q	1422	0	1425	24	0
1	r	1477	0	1477	12	0
1	s	1437	0	1442	22	0
1	t	1422	0	1425	23	0
1	u	1477	0	1477	12	0
1	v	1437	0	1442	22	0
1	w	1422	0	1425	24	0
1	x	1477	0	1477	12	0
1	y	1437	0	1442	23	0
1	z	1422	0	1425	23	0
All	All	260160	0	260640	2134	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 4.

All (2134) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:88:PRO:HB2	1:5:90:MET:HE1	1.42	1.01
1:j:90:MET:HE1	1:AE:88:PRO:HB2	1.42	1.01
1:R:90:MET:HE1	1:w:88:PRO:HB2	1.43	1.01
1:k:88:PRO:HB2	1:p:90:MET:HE1	1.43	1.01
1:P:88:PRO:HB2	1:A3:90:MET:HE1	1.43	1.01
1:h:88:PRO:HB2	1:Ak:90:MET:HE1	1.43	1.01
1:q:88:PRO:HB2	1:AM:90:MET:HE1	1.43	1.01
1:AA:90:MET:HE1	1:Bj:88:PRO:HB2	1.42	1.01
1:AH:88:PRO:HB2	1:Bc:90:MET:HE1	1.42	1.01
1:L:90:MET:HE1	1:b:88:PRO:HB2	1.42	1.01
1:S:88:PRO:HB2	1:X:90:MET:HE1	1.43	1.01
1:a:90:MET:HE1	1:Ar:88:PRO:HB2	1.43	1.01
1:n:88:PRO:HB2	1:Bi:90:MET:HE1	1.43	1.01
1:3:88:PRO:HB2	1:8:90:MET:HE1	1.43	1.01
1:An:90:MET:HE1	1:A4:88:PRO:HB2	1.42	1.01
1:AG:90:MET:HE1	1:BF:88:PRO:HB2	1.43	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:88:PRO:HB2	1:BE:90:MET:HE1	1.43	1.01
1:C:90:MET:HE1	1:Ba:88:PRO:HB2	1.43	1.00
1:6:88:PRO:HB2	1:BQ:90:MET:HE1	1.43	1.00
1:A:88:PRO:HB2	1:Ah:90:MET:HE1	1.43	1.00
1:G:88:PRO:HB2	1:m:90:MET:HE1	1.43	1.00
1:J:88:PRO:HB2	1:AV:90:MET:HE1	1.43	1.00
1:U:90:MET:HE1	1:AQ:88:PRO:HB2	1.43	1.00
1:e:88:PRO:HB2	1:Ab:90:MET:HE1	1.43	1.00
1:s:90:MET:HE1	1:B2:88:PRO:HB2	1.43	1.00
1:y:90:MET:HE1	1:BX:88:PRO:HB2	1.43	1.00
1:z:88:PRO:HB2	1:Bu:90:MET:HE1	1.43	1.00
1:9:88:PRO:HB2	1:Ae:90:MET:HE1	1.43	1.00
1:Al:88:PRO:HB2	1:Bx:90:MET:HE1	1.43	1.00
1:AD:90:MET:HE1	1:AT:88:PRO:HB2	1.43	1.00
1:Bf:90:MET:HE1	1:Bv:88:PRO:HB2	1.43	1.00
1:D:88:PRO:HB2	1:Aq:90:MET:HE1	1.43	0.99
1:BN:90:MET:HE1	1:Bd:88:PRO:HB2	1.43	0.99
1:BT:90:MET:HE1	1:By:88:PRO:HB2	1.43	0.99
1:v:90:MET:HE1	1:AB:88:PRO:HB2	1.43	0.99
1:F:90:MET:HE1	1:Ac:88:PRO:HB2	1.43	0.99
1:O:90:MET:HE1	1:Af:88:PRO:HB2	1.43	0.99
1:Ao:88:PRO:HB2	1:Bl:90:MET:HE1	1.43	0.99
1:AN:88:PRO:HB2	1:A9:90:MET:HE1	1.43	0.99
1:Aw:90:MET:HE1	1:Bs:88:PRO:HB2	1.43	0.99
1:AZ:88:PRO:HB2	1:BK:90:MET:HE1	1.43	0.99
1:BB:90:MET:HE1	1:Bg:88:PRO:HB2	1.42	0.99
1:d:90:MET:HE1	1:t:88:PRO:HB2	1.43	0.99
1:A6:90:MET:HE1	1:BL:88:PRO:HB2	1.43	0.99
1:A1:88:PRO:HB2	1:BW:90:MET:HE1	1.42	0.99
1:g:90:MET:HE1	1:Bp:88:PRO:HB2	1.43	0.99
1:Au:88:PRO:HB2	1:Az:90:MET:HE1	1.43	0.99
1:M:88:PRO:HB2	1:AJ:90:MET:HE1	1.43	0.99
1:At:90:MET:HE1	1:BO:88:PRO:HB2	1.43	0.99
1:BC:88:PRO:HB2	1:BH:90:MET:HE1	1.43	0.99
1:BI:88:PRO:HB2	1:Bo:90:MET:HE1	1.43	0.98
1:2:90:MET:HE1	1:AW:88:PRO:HB2	1.43	0.98
1:AS:90:MET:HE1	1:BR:88:PRO:HB2	1.43	0.98
1:Bm:88:PRO:HB2	1:Br:90:MET:HE1	1.42	0.98
1:V:88:PRO:HB2	1:B1:90:MET:HE1	1.42	0.98
1:A7:88:PRO:HB2	1:B4:90:MET:HE1	1.43	0.98
1:AY:90:MET:HE1	1:Ax:88:PRO:HB2	1.42	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:88:PRO:HB2	1:BZ:90:MET:HE1	1.43	0.98
1:AK:88:PRO:HB2	1:AP:90:MET:HE1	1.42	0.98
1:I:90:MET:HE1	1:A0:88:PRO:HB2	1.43	0.98
1:M:88:PRO:HB2	1:AJ:90:MET:CE	2.02	0.90
1:d:90:MET:CE	1:t:88:PRO:HB2	2.02	0.90
1:U:90:MET:CE	1:AQ:88:PRO:HB2	2.02	0.90
1:j:90:MET:CE	1:AE:88:PRO:HB2	2.02	0.90
1:s:90:MET:CE	1:B2:88:PRO:HB2	2.02	0.90
1:A6:90:MET:CE	1:BL:88:PRO:HB2	2.02	0.90
1:Y:88:PRO:HB2	1:5:90:MET:CE	2.02	0.90
1:h:88:PRO:HB2	1:Ak:90:MET:CE	2.02	0.90
1:Ao:88:PRO:HB2	1:Bl:90:MET:CE	2.02	0.90
1:3:88:PRO:HB2	1:8:90:MET:CE	2.02	0.90
1:A:88:PRO:HB2	1:Ah:90:MET:CE	2.02	0.90
1:AD:90:MET:CE	1:AT:88:PRO:HB2	2.02	0.90
1:g:90:MET:CE	1:Bp:88:PRO:HB2	2.02	0.89
1:k:88:PRO:HB2	1:p:90:MET:CE	2.02	0.89
1:AY:90:MET:CE	1:Ax:88:PRO:HB2	2.02	0.89
1:Bm:88:PRO:HB2	1:Br:90:MET:CE	2.02	0.89
1:J:88:PRO:HB2	1:AV:90:MET:CE	2.02	0.89
1:R:90:MET:CE	1:w:88:PRO:HB2	2.02	0.89
1:2:90:MET:CE	1:AW:88:PRO:HB2	2.02	0.89
1:AA:90:MET:CE	1:Bj:88:PRO:HB2	2.02	0.89
1:A1:88:PRO:HB2	1:BW:90:MET:CE	2.02	0.89
1:G:88:PRO:HB2	1:m:90:MET:CE	2.02	0.89
1:An:90:MET:CE	1:A4:88:PRO:HB2	2.02	0.89
1:BB:90:MET:CE	1:Bg:88:PRO:HB2	2.02	0.89
1:Bf:90:MET:CE	1:Bv:88:PRO:HB2	2.02	0.89
1:C:90:MET:CE	1:Ba:88:PRO:HB2	2.02	0.89
1:F:90:MET:CE	1:Ac:88:PRO:HB2	2.02	0.89
1:Au:88:PRO:HB2	1:Az:90:MET:CE	2.02	0.89
1:y:90:MET:CE	1:BX:88:PRO:HB2	2.02	0.89
1:BI:88:PRO:HB2	1:Bo:90:MET:CE	2.02	0.89
1:BT:90:MET:CE	1:By:88:PRO:HB2	2.02	0.89
1:AN:88:PRO:HB2	1:A9:90:MET:CE	2.02	0.89
1:a:90:MET:CE	1:Ar:88:PRO:HB2	2.02	0.89
1:e:88:PRO:HB2	1:Ab:90:MET:CE	2.02	0.89
1:I:90:MET:CE	1:A0:88:PRO:HB2	2.02	0.89
1:V:88:PRO:HB2	1:B1:90:MET:CE	2.02	0.89
1:AG:90:MET:CE	1:BF:88:PRO:HB2	2.02	0.89
1:AZ:88:PRO:HB2	1:BK:90:MET:CE	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Aw:90:MET:CE	1:Bs:88:PRO:HB2	2.02	0.89
1:z:88:PRO:HB2	1:Bu:90:MET:CE	2.02	0.88
1:AS:90:MET:CE	1:BR:88:PRO:HB2	2.02	0.88
1:A7:88:PRO:HB2	1:B4:90:MET:CE	2.02	0.88
1:BU:88:PRO:HB2	1:BZ:90:MET:CE	2.02	0.88
1:AK:88:PRO:HB2	1:AP:90:MET:CE	2.02	0.88
1:D:88:PRO:HB2	1:Aq:90:MET:CE	2.02	0.88
1:Al:88:PRO:HB2	1:Bx:90:MET:CE	2.02	0.88
1:BC:88:PRO:HB2	1:BH:90:MET:CE	2.02	0.88
1:BN:90:MET:CE	1:Bd:88:PRO:HB2	2.02	0.88
1:v:90:MET:CE	1:AB:88:PRO:HB2	2.02	0.88
1:9:88:PRO:HB2	1:Ae:90:MET:CE	2.02	0.88
1:At:90:MET:CE	1:BO:88:PRO:HB2	2.02	0.88
1:O:90:MET:CE	1:Af:88:PRO:HB2	2.02	0.88
1:S:88:PRO:HB2	1:X:90:MET:CE	2.02	0.88
1:Ai:88:PRO:HB2	1:BE:90:MET:CE	2.02	0.88
1:L:90:MET:CE	1:b:88:PRO:HB2	2.02	0.88
1:6:88:PRO:HB2	1:BQ:90:MET:CE	2.02	0.88
1:P:88:PRO:HB2	1:A3:90:MET:CE	2.02	0.88
1:q:88:PRO:HB2	1:AM:90:MET:CE	2.02	0.88
1:AH:88:PRO:HB2	1:Bc:90:MET:CE	2.02	0.88
1:n:88:PRO:HB2	1:Bi:90:MET:CE	2.02	0.87
1:G:181:ILE:HD11	1:k:181:ILE:HB	1.57	0.87
1:S:181:ILE:HB	1:AQ:181:ILE:HD11	1.57	0.87
1:S:181:ILE:HD11	1:V:181:ILE:HB	1.57	0.87
1:q:181:ILE:HD11	1:AK:181:ILE:HB	1.57	0.87
1:w:181:ILE:HB	1:BX:181:ILE:HD11	1.57	0.87
1:Al:181:ILE:HD11	1:Bv:181:ILE:HB	1.57	0.87
1:Bm:181:ILE:HD11	1:Bp:181:ILE:HB	1.57	0.87
1:M:181:ILE:HB	1:Af:181:ILE:HD11	1.57	0.87
1:V:181:ILE:HD11	1:By:181:ILE:HB	1.57	0.87
1:q:181:ILE:HB	1:B2:181:ILE:HD11	1.57	0.87
1:t:181:ILE:HB	1:AB:181:ILE:HD11	1.57	0.87
1:9:181:ILE:HD11	1:Ac:181:ILE:HB	1.57	0.87
1:AK:181:ILE:HD11	1:AN:181:ILE:HB	1.57	0.87
1:AW:181:ILE:HB	1:Ax:181:ILE:HD11	1.57	0.87
1:J:181:ILE:HB	1:b:181:ILE:HD11	1.57	0.87
1:M:181:ILE:HD11	1:AH:181:ILE:HB	1.57	0.87
1:3:181:ILE:HD11	1:6:181:ILE:HB	1.57	0.87
1:BR:181:ILE:HB	1:By:181:ILE:HD11	1.57	0.87
1:h:181:ILE:HD11	1:Ai:181:ILE:HB	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:181:ILE:HD11	1:A7:181:ILE:HB	1.57	0.86
1:A0:181:ILE:HB	1:Bg:181:ILE:HD11	1.57	0.86
1:b:181:ILE:HB	1:t:181:ILE:HD11	1.57	0.86
1:AH:181:ILE:HD11	1:Ba:181:ILE:HB	1.57	0.86
1:Ar:181:ILE:HB	1:BO:181:ILE:HD11	1.57	0.86
1:A1:181:ILE:HD11	1:BU:181:ILE:HB	1.57	0.86
1:z:181:ILE:HD11	1:Bs:181:ILE:HB	1.57	0.86
1:BC:181:ILE:HD11	1:BF:181:ILE:HB	1.57	0.86
1:A:181:ILE:HD11	1:Af:181:ILE:HB	1.57	0.86
1:e:181:ILE:HB	1:Bp:181:ILE:HD11	1.57	0.86
1:e:181:ILE:HD11	1:AZ:181:ILE:HB	1.57	0.86
1:z:181:ILE:HB	1:AW:181:ILE:HD11	1.57	0.86
1:AB:181:ILE:HB	1:AT:181:ILE:HD11	1.57	0.86
1:A:88:PRO:CB	1:Ah:90:MET:SD	2.64	0.86
1:D:88:PRO:CB	1:Aq:90:MET:SD	2.64	0.86
1:AD:90:MET:SD	1:AT:88:PRO:CB	2.64	0.86
1:BN:90:MET:SD	1:Bd:88:PRO:CB	2.64	0.86
1:O:90:MET:SD	1:Af:88:PRO:CB	2.64	0.86
1:U:90:MET:SD	1:AQ:88:PRO:CB	2.64	0.86
1:Ai:88:PRO:CB	1:BE:90:MET:SD	2.64	0.86
1:Ao:88:PRO:CB	1:Bl:90:MET:SD	2.64	0.86
1:Y:88:PRO:CB	1:5:90:MET:SD	2.64	0.86
1:g:90:MET:SD	1:Bp:88:PRO:CB	2.64	0.86
1:j:90:MET:SD	1:AE:88:PRO:CB	2.64	0.86
1:s:90:MET:SD	1:B2:88:PRO:CB	2.64	0.86
1:v:90:MET:SD	1:AB:88:PRO:CB	2.64	0.86
1:z:88:PRO:CB	1:Bu:90:MET:SD	2.64	0.86
1:6:88:PRO:CB	1:BQ:90:MET:SD	2.64	0.86
1:9:88:PRO:CB	1:Ae:90:MET:SD	2.64	0.86
1:AN:88:PRO:CB	1:A9:90:MET:SD	2.64	0.86
1:Al:88:PRO:CB	1:Bx:90:MET:SD	2.64	0.86
1:A6:90:MET:SD	1:BL:88:PRO:CB	2.64	0.86
1:BT:90:MET:SD	1:By:88:PRO:CB	2.64	0.86
1:G:181:ILE:HB	1:A0:181:ILE:HD11	1.57	0.86
1:e:88:PRO:CB	1:Ab:90:MET:SD	2.64	0.86
1:2:90:MET:SD	1:AW:88:PRO:CB	2.64	0.86
1:C:90:MET:SD	1:Ba:88:PRO:CB	2.64	0.85
1:F:90:MET:SD	1:Ac:88:PRO:CB	2.64	0.85
1:J:88:PRO:CB	1:AV:90:MET:SD	2.64	0.85
1:n:181:ILE:HD11	1:Bg:181:ILE:HB	1.57	0.85
1:AA:90:MET:SD	1:Bj:88:PRO:CB	2.64	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BU:181:ILE:HD11	1:BX:181:ILE:HB	1.57	0.85
1:Bf:90:MET:SD	1:Bv:88:PRO:CB	2.64	0.85
1:L:90:MET:SD	1:b:88:PRO:CB	2.64	0.85
1:P:88:PRO:CB	1:A3:90:MET:SD	2.64	0.85
1:d:90:MET:SD	1:t:88:PRO:CB	2.64	0.85
1:n:88:PRO:CB	1:Bi:90:MET:SD	2.64	0.85
1:AY:90:MET:SD	1:Ax:88:PRO:CB	2.64	0.85
1:An:90:MET:SD	1:A4:88:PRO:CB	2.64	0.85
1:A7:88:PRO:CB	1:B4:90:MET:SD	2.64	0.85
1:M:88:PRO:CB	1:AJ:90:MET:SD	2.64	0.85
1:P:181:ILE:HD11	1:A1:181:ILE:HB	1.57	0.85
1:R:90:MET:SD	1:w:88:PRO:CB	2.64	0.85
1:k:88:PRO:CB	1:p:90:MET:SD	2.64	0.85
1:6:181:ILE:HD11	1:BO:181:ILE:HB	1.57	0.85
1:AH:88:PRO:CB	1:Bc:90:MET:SD	2.64	0.85
1:AS:90:MET:SD	1:BR:88:PRO:CB	2.64	0.85
1:Au:88:PRO:CB	1:Az:90:MET:SD	2.64	0.85
1:A1:88:PRO:CB	1:BW:90:MET:SD	2.64	0.85
1:BB:90:MET:SD	1:Bg:88:PRO:CB	2.64	0.85
1:Bm:88:PRO:CB	1:Br:90:MET:SD	2.64	0.85
1:D:181:ILE:HD11	1:Ao:181:ILE:HB	1.57	0.85
1:h:88:PRO:CB	1:Ak:90:MET:SD	2.64	0.85
1:3:88:PRO:CB	1:8:90:MET:SD	2.64	0.85
1:BI:88:PRO:CB	1:Bo:90:MET:SD	2.64	0.85
1:A:181:ILE:HB	1:Ba:181:ILE:HD11	1.57	0.85
1:I:90:MET:SD	1:A0:88:PRO:CB	2.64	0.85
1:V:88:PRO:CB	1:B1:90:MET:SD	2.64	0.85
1:AK:88:PRO:CB	1:AP:90:MET:SD	2.64	0.85
1:Ai:181:ILE:HD11	1:BC:181:ILE:HB	1.57	0.85
1:At:90:MET:SD	1:BO:88:PRO:CB	2.64	0.85
1:BC:88:PRO:CB	1:BH:90:MET:SD	2.64	0.85
1:BL:181:ILE:HB	1:Bd:181:ILE:HD11	1.57	0.85
1:BU:88:PRO:CB	1:BZ:90:MET:SD	2.64	0.85
1:J:181:ILE:HD11	1:AT:181:ILE:HB	1.57	0.85
1:Y:181:ILE:HD11	1:3:181:ILE:HB	1.57	0.85
1:Au:181:ILE:HD11	1:Ax:181:ILE:HB	1.57	0.85
1:Bd:181:ILE:HB	1:Bv:181:ILE:HD11	1.57	0.85
1:D:181:ILE:HB	1:Ac:181:ILE:HD11	1.57	0.85
1:S:88:PRO:CB	1:X:90:MET:SD	2.64	0.85
1:Y:181:ILE:HB	1:Ar:181:ILE:HD11	1.57	0.85
1:h:181:ILE:HB	1:AE:181:ILE:HD11	1.57	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:88:PRO:CB	1:m:90:MET:SD	2.64	0.85
1:q:88:PRO:CB	1:AM:90:MET:SD	2.64	0.85
1:Al:181:ILE:HB	1:A4:181:ILE:HD11	1.57	0.85
1:BI:181:ILE:HD11	1:Bm:181:ILE:HB	1.57	0.85
1:a:90:MET:SD	1:Ar:88:PRO:CB	2.64	0.85
1:AE:181:ILE:HB	1:BF:181:ILE:HD11	1.57	0.85
1:y:90:MET:SD	1:BX:88:PRO:CB	2.64	0.85
1:9:181:ILE:HB	1:Bj:181:ILE:HD11	1.57	0.85
1:AZ:88:PRO:CB	1:BK:90:MET:SD	2.64	0.85
1:AG:90:MET:SD	1:BF:88:PRO:CB	2.64	0.84
1:AZ:181:ILE:HD11	1:BI:181:ILE:HB	1.57	0.84
1:Aw:90:MET:SD	1:Bs:88:PRO:CB	2.64	0.84
1:Au:181:ILE:HB	1:Bs:181:ILE:HD11	1.57	0.84
1:A7:181:ILE:HD11	1:B2:181:ILE:HB	1.57	0.84
1:P:181:ILE:HB	1:w:181:ILE:HD11	1.57	0.84
1:AQ:181:ILE:HB	1:BR:181:ILE:HD11	1.57	0.84
1:k:181:ILE:HD11	1:n:181:ILE:HB	1.57	0.84
1:Ao:181:ILE:HD11	1:Bj:181:ILE:HB	1.57	0.84
1:A4:181:ILE:HB	1:BL:181:ILE:HD11	1.57	0.84
1:M:235:ILE:HD13	1:AH:167:MET:HE3	1.63	0.81
1:A:167:MET:HE3	1:Ba:235:ILE:HD13	1.63	0.81
1:J:235:ILE:HD13	1:AT:167:MET:HE3	1.63	0.81
1:Y:235:ILE:HD13	1:3:167:MET:HE3	1.63	0.81
1:b:167:MET:HE3	1:t:235:ILE:HD13	1.63	0.81
1:A1:235:ILE:HD13	1:BU:167:MET:HE3	1.63	0.81
1:A0:167:MET:HE3	1:Bg:235:ILE:HD13	1.63	0.81
1:D:235:ILE:HD13	1:Ao:167:MET:HE3	1.63	0.81
1:P:167:MET:HE3	1:w:235:ILE:HD13	1.63	0.81
1:V:235:ILE:HD13	1:By:167:MET:HE3	1.63	0.81
1:h:167:MET:HE3	1:AE:235:ILE:HD13	1.63	0.81
1:w:167:MET:HE3	1:BX:235:ILE:HD13	1.63	0.81
1:AK:235:ILE:HD13	1:AN:167:MET:HE3	1.63	0.81
1:BC:235:ILE:HD13	1:BF:167:MET:HE3	1.63	0.81
1:BL:167:MET:HE3	1:Bd:235:ILE:HD13	1.63	0.81
1:G:167:MET:HE3	1:A0:235:ILE:HD13	1.63	0.81
1:G:235:ILE:HD13	1:k:167:MET:HE3	1.63	0.81
1:k:235:ILE:HD13	1:n:167:MET:HE3	1.63	0.81
1:Ar:167:MET:HE3	1:BO:235:ILE:HD13	1.63	0.81
1:Ai:235:ILE:HD13	1:BC:167:MET:HE3	1.63	0.81
1:Al:235:ILE:HD13	1:Bv:167:MET:HE3	1.63	0.81
1:BU:235:ILE:HD13	1:BX:167:MET:HE3	1.63	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:235:ILE:HD13	1:BO:167:MET:HE3	1.63	0.81
1:9:235:ILE:HD13	1:Ac:167:MET:HE3	1.63	0.81
1:Al:167:MET:HE3	1:A4:235:ILE:HD13	1.63	0.81
1:Y:167:MET:HE3	1:Ar:235:ILE:HD13	1.63	0.81
1:9:167:MET:HE3	1:Bj:235:ILE:HD13	1.63	0.81
1:AQ:167:MET:HE3	1:BR:235:ILE:HD13	1.63	0.81
1:q:235:ILE:HD13	1:AK:167:MET:HE3	1.63	0.80
1:AE:167:MET:HE3	1:BF:235:ILE:HD13	1.63	0.80
1:AN:235:ILE:HD13	1:A7:167:MET:HE3	1.63	0.80
1:A7:235:ILE:HD13	1:B2:167:MET:HE3	1.63	0.80
1:S:235:ILE:HD13	1:V:167:MET:HE3	1.63	0.80
1:q:167:MET:HE3	1:B2:235:ILE:HD13	1.63	0.80
1:BR:167:MET:HE3	1:By:235:ILE:HD13	1.63	0.80
1:S:167:MET:HE3	1:AQ:235:ILE:HD13	1.63	0.80
1:Ao:235:ILE:HD13	1:Bj:167:MET:HE3	1.63	0.80
1:AH:235:ILE:HD13	1:Ba:167:MET:HE3	1.63	0.80
1:A4:167:MET:HE3	1:BL:235:ILE:HD13	1.63	0.80
1:J:167:MET:HE3	1:b:235:ILE:HD13	1.63	0.80
1:Bd:167:MET:HE3	1:Bv:235:ILE:HD13	1.63	0.79
1:A:235:ILE:HD13	1:Af:167:MET:HE3	1.63	0.79
1:Au:88:PRO:HB2	1:Az:90:MET:SD	2.23	0.79
1:BI:88:PRO:HB2	1:Bo:90:MET:SD	2.23	0.79
1:D:167:MET:HE3	1:Ac:235:ILE:HD13	1.63	0.79
1:M:167:MET:HE3	1:Af:235:ILE:HD13	1.63	0.79
1:AB:167:MET:HE3	1:AT:235:ILE:HD13	1.63	0.79
1:L:90:MET:SD	1:b:88:PRO:HB2	2.23	0.79
1:O:90:MET:SD	1:Af:88:PRO:HB2	2.23	0.79
1:P:235:ILE:HD13	1:A1:167:MET:HE3	1.63	0.79
1:e:235:ILE:HD13	1:AZ:167:MET:HE3	1.63	0.79
1:g:90:MET:SD	1:Bp:88:PRO:HB2	2.23	0.79
1:t:167:MET:HE3	1:AB:235:ILE:HD13	1.63	0.79
1:z:235:ILE:HD13	1:Bs:167:MET:HE3	1.63	0.79
1:2:90:MET:SD	1:AW:88:PRO:HB2	2.23	0.79
1:AS:90:MET:SD	1:BR:88:PRO:HB2	2.23	0.79
1:A7:88:PRO:HB2	1:B4:90:MET:SD	2.23	0.79
1:G:88:PRO:HB2	1:m:90:MET:SD	2.23	0.79
1:U:90:MET:SD	1:AQ:88:PRO:HB2	2.23	0.79
1:n:235:ILE:HD13	1:Bg:167:MET:HE3	1.63	0.79
1:s:90:MET:SD	1:B2:88:PRO:HB2	2.23	0.79
1:v:90:MET:SD	1:AB:88:PRO:HB2	2.23	0.79
1:y:90:MET:SD	1:BX:88:PRO:HB2	2.23	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:88:PRO:HB2	1:Bc:90:MET:SD	2.23	0.79
1:AY:90:MET:SD	1:Ax:88:PRO:HB2	2.23	0.79
1:AZ:88:PRO:HB2	1:BK:90:MET:SD	2.23	0.79
1:Aw:90:MET:SD	1:Bs:88:PRO:HB2	2.23	0.79
1:BT:90:MET:SD	1:By:88:PRO:HB2	2.23	0.79
1:Bm:88:PRO:HB2	1:Br:90:MET:SD	2.23	0.79
1:F:90:MET:SD	1:Ac:88:PRO:HB2	2.23	0.79
1:M:88:PRO:HB2	1:AJ:90:MET:SD	2.23	0.79
1:h:88:PRO:HB2	1:Ak:90:MET:SD	2.23	0.79
1:3:88:PRO:HB2	1:8:90:MET:SD	2.23	0.79
1:AN:88:PRO:HB2	1:A9:90:MET:SD	2.23	0.79
1:Bf:90:MET:SD	1:Bv:88:PRO:HB2	2.23	0.79
1:R:90:MET:SD	1:w:88:PRO:HB2	2.23	0.79
1:Y:88:PRO:HB2	1:5:90:MET:SD	2.23	0.79
1:j:90:MET:SD	1:AE:88:PRO:HB2	2.23	0.79
1:k:88:PRO:HB2	1:p:90:MET:SD	2.23	0.79
1:Ao:88:PRO:HB2	1:Bl:90:MET:SD	2.23	0.79
1:Au:235:ILE:HD13	1:Ax:167:MET:HE3	1.63	0.79
1:A6:90:MET:SD	1:BL:88:PRO:HB2	2.23	0.79
1:BI:235:ILE:HD13	1:Bm:167:MET:HE3	1.63	0.79
1:d:90:MET:SD	1:t:88:PRO:HB2	2.23	0.79
1:z:88:PRO:HB2	1:Bu:90:MET:SD	2.23	0.79
1:AW:167:MET:HE3	1:Ax:235:ILE:HD13	1.63	0.79
1:A1:88:PRO:HB2	1:BW:90:MET:SD	2.23	0.79
1:BB:90:MET:SD	1:Bg:88:PRO:HB2	2.23	0.79
1:BN:90:MET:SD	1:Bd:88:PRO:HB2	2.23	0.79
1:Bm:235:ILE:HD13	1:Bp:167:MET:HE3	1.63	0.79
1:C:90:MET:SD	1:Ba:88:PRO:HB2	2.23	0.79
1:D:88:PRO:HB2	1:Aq:90:MET:SD	2.23	0.79
1:J:88:PRO:HB2	1:AV:90:MET:SD	2.23	0.79
1:e:88:PRO:HB2	1:Ab:90:MET:SD	2.23	0.79
1:AK:88:PRO:HB2	1:AP:90:MET:SD	2.23	0.79
1:V:88:PRO:HB2	1:B1:90:MET:SD	2.23	0.79
1:a:90:MET:SD	1:Ar:88:PRO:HB2	2.23	0.78
1:3:235:ILE:HD13	1:6:167:MET:HE3	1.63	0.78
1:6:88:PRO:HB2	1:BQ:90:MET:SD	2.23	0.78
1:AG:90:MET:SD	1:BF:88:PRO:HB2	2.23	0.78
1:AZ:235:ILE:HD13	1:BI:167:MET:HE3	1.63	0.78
1:Ai:88:PRO:HB2	1:BE:90:MET:SD	2.23	0.78
1:S:88:PRO:HB2	1:X:90:MET:SD	2.23	0.78
1:q:88:PRO:HB2	1:AM:90:MET:SD	2.23	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:PRO:HB2	1:Ah:90:MET:SD	2.23	0.78
1:h:235:ILE:HD13	1:Ai:167:MET:HE3	1.63	0.78
1:z:167:MET:HE3	1:AW:235:ILE:HD13	1.63	0.78
1:AD:90:MET:SD	1:AT:88:PRO:HB2	2.23	0.78
1:Au:167:MET:HE3	1:Bs:235:ILE:HD13	1.63	0.78
1:e:167:MET:HE3	1:Bp:235:ILE:HD13	1.63	0.78
1:An:90:MET:SD	1:A4:88:PRO:HB2	2.23	0.78
1:AA:90:MET:SD	1:Bj:88:PRO:HB2	2.23	0.78
1:9:88:PRO:HB2	1:Ae:90:MET:SD	2.23	0.77
1:Al:88:PRO:HB2	1:Bx:90:MET:SD	2.23	0.77
1:I:90:MET:SD	1:A0:88:PRO:HB2	2.23	0.77
1:P:88:PRO:HB2	1:A3:90:MET:SD	2.23	0.77
1:n:88:PRO:HB2	1:Bi:90:MET:SD	2.23	0.77
1:BU:88:PRO:HB2	1:BZ:90:MET:SD	2.23	0.77
1:BC:88:PRO:HB2	1:BH:90:MET:SD	2.23	0.76
1:At:90:MET:SD	1:BO:88:PRO:HB2	2.23	0.76
1:L:181:ILE:HD13	1:BY:181:ILE:CG1	2.17	0.75
1:H:181:ILE:CG1	1:Bc:181:ILE:HD13	2.17	0.75
1:N:181:ILE:CG1	1:Bo:181:ILE:HD13	2.17	0.75
1:T:181:ILE:CG1	1:Bi:181:ILE:HD13	2.17	0.75
1:r:181:ILE:CG1	1:A3:181:ILE:HD13	2.17	0.75
1:u:181:ILE:CG1	1:Az:181:ILE:HD13	2.17	0.75
1:U:181:ILE:HD13	1:Bh:181:ILE:CG1	2.17	0.75
1:g:181:ILE:HD13	1:BV:181:ILE:CG1	2.17	0.75
1:l:181:ILE:CG1	1:BQ:181:ILE:HD13	2.17	0.75
1:s:181:ILE:HD13	1:A2:181:ILE:CG1	2.17	0.75
1:2:181:ILE:HD13	1:BA:181:ILE:CG1	2.17	0.75
1:W:181:ILE:CG1	1:BN:181:ILE:HD13	2.17	0.75
1:o:181:ILE:CG1	1:A6:181:ILE:HD13	2.17	0.75
1:x:181:ILE:CG1	1:BE:181:ILE:HD13	2.17	0.75
1:AL:181:ILE:CG1	1:Aq:181:ILE:HD13	2.17	0.75
1:Q:181:ILE:CG1	1:Bl:181:ILE:HD13	2.17	0.75
1:i:181:ILE:CG1	1:BT:181:ILE:HD13	2.17	0.75
1:4:181:ILE:CG1	1:A9:181:ILE:HD13	2.17	0.75
1:AP:181:ILE:HD13	1:Bw:181:ILE:CG1	2.17	0.75
1:Ad:181:ILE:CG1	1:B1:181:ILE:HD13	2.17	0.75
1:C:181:ILE:HD13	1:AX:181:ILE:CG1	2.17	0.75
1:d:181:ILE:HD13	1:BG:181:ILE:CG1	2.17	0.75
1:AI:181:ILE:CG1	1:At:181:ILE:HD13	2.17	0.75
1:AV:181:ILE:HD13	1:Bq:181:ILE:CG1	2.17	0.75
1:Aa:181:ILE:CG1	1:B4:181:ILE:HD13	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:181:ILE:HD13	1:Bk:181:ILE:CG1	2.17	0.75
1:c:181:ILE:CG1	1:BH:181:ILE:HD13	2.17	0.75
1:AJ:181:ILE:HD13	1:As:181:ILE:CG1	2.17	0.75
1:AS:181:ILE:HD13	1:Bt:181:ILE:CG1	2.17	0.75
1:AU:181:ILE:CG1	1:Br:181:ILE:HD13	2.17	0.75
1:Ab:181:ILE:HD13	1:B3:181:ILE:CG1	2.17	0.75
1:B:181:ILE:CG1	1:AY:181:ILE:HD13	2.17	0.74
1:j:181:ILE:HD13	1:BS:181:ILE:CG1	2.17	0.74
1:p:181:ILE:HD13	1:A5:181:ILE:CG1	2.17	0.74
1:AR:181:ILE:CG1	1:Bu:181:ILE:HD13	2.17	0.74
1:5:181:ILE:HD13	1:A8:181:ILE:CG1	2.17	0.74
1:O:181:ILE:HD13	1:Bn:181:ILE:CG1	2.17	0.74
1:v:181:ILE:HD13	1:Ay:181:ILE:CG1	2.17	0.74
1:AG:181:ILE:HD13	1:Av:181:ILE:CG1	2.17	0.74
1:Z:181:ILE:CG1	1:BK:181:ILE:HD13	2.17	0.74
1:a:181:ILE:HD13	1:BJ:181:ILE:CG1	2.17	0.74
1:8:181:ILE:HD13	1:Am:181:ILE:CG1	2.17	0.74
1:y:181:ILE:HD13	1:BD:181:ILE:CG1	2.17	0.74
1:0:181:ILE:CG1	1:Ak:181:ILE:HD13	2.17	0.74
1:AF:181:ILE:CG1	1:Aw:181:ILE:HD13	2.17	0.74
1:E:181:ILE:CG1	1:Bf:181:ILE:HD13	2.17	0.74
1:F:181:ILE:HD13	1:Be:181:ILE:CG1	2.17	0.74
1:K:181:ILE:CG1	1:BZ:181:ILE:HD13	2.17	0.74
1:m:181:ILE:HD13	1:BP:181:ILE:CG1	2.17	0.74
1:I:181:ILE:HD13	1:Bb:181:ILE:CG1	2.17	0.74
1:1:181:ILE:CG1	1:BB:181:ILE:HD13	2.17	0.74
1:7:181:ILE:CG1	1:An:181:ILE:HD13	2.17	0.74
1:AM:181:ILE:HD13	1:Ap:181:ILE:CG1	2.17	0.74
1:f:181:ILE:CG1	1:BW:181:ILE:HD13	2.17	0.73
1:AA:181:ILE:HD13	1:Aj:181:ILE:CG1	2.17	0.73
1:AD:181:ILE:HD13	1:Ag:181:ILE:CG1	2.17	0.73
1:X:181:ILE:HD13	1:BM:181:ILE:CG1	2.17	0.73
1:AC:181:ILE:CG1	1:Ah:181:ILE:HD13	2.17	0.73
1:AO:181:ILE:CG1	1:Bx:181:ILE:HD13	2.17	0.73
1:Ae:181:ILE:HD13	1:Bz:181:ILE:CG1	2.17	0.73
1:V:88:PRO:HB3	1:B1:90:MET:SD	2.30	0.72
1:AA:90:MET:SD	1:Bj:88:PRO:HB3	2.30	0.72
1:An:90:MET:SD	1:A4:88:PRO:HB3	2.30	0.72
1:L:90:MET:SD	1:b:88:PRO:HB3	2.30	0.72
1:d:90:MET:SD	1:t:88:PRO:HB3	2.30	0.72
1:AH:88:PRO:HB3	1:Bc:90:MET:SD	2.30	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:88:PRO:HB3	1:AP:90:MET:SD	2.30	0.72
1:AS:90:MET:SD	1:BR:88:PRO:HB3	2.30	0.72
1:A7:88:PRO:HB3	1:B4:90:MET:SD	2.30	0.72
1:A:88:PRO:HB3	1:Ah:90:MET:SD	2.30	0.72
1:M:88:PRO:HB3	1:AJ:90:MET:SD	2.30	0.72
1:AD:90:MET:SD	1:AT:88:PRO:HB3	2.30	0.72
1:A1:88:PRO:HB3	1:BW:90:MET:SD	2.30	0.72
1:e:88:PRO:HB3	1:Ab:90:MET:SD	2.30	0.72
1:2:90:MET:SD	1:AW:88:PRO:HB3	2.30	0.72
1:h:88:PRO:HB3	1:Ak:90:MET:SD	2.30	0.72
1:k:88:PRO:HB3	1:p:90:MET:SD	2.30	0.72
1:z:88:PRO:HB3	1:Bu:90:MET:SD	2.30	0.72
1:3:88:PRO:HB3	1:8:90:MET:SD	2.30	0.72
1:At:90:MET:SD	1:BO:88:PRO:HB3	2.30	0.72
1:BC:88:PRO:HB3	1:BH:90:MET:SD	2.30	0.72
1:P:88:PRO:HB3	1:A3:90:MET:SD	2.30	0.72
1:R:90:MET:SD	1:w:88:PRO:HB3	2.30	0.72
1:g:90:MET:SD	1:Bp:88:PRO:HB3	2.30	0.72
1:n:88:PRO:HB3	1:Bi:90:MET:SD	2.30	0.72
1:BB:90:MET:SD	1:Bg:88:PRO:HB3	2.30	0.72
1:Bf:90:MET:SD	1:Bv:88:PRO:HB3	2.30	0.71
1:A6:90:MET:SD	1:BL:88:PRO:HB3	2.30	0.71
1:AZ:88:PRO:HB3	1:BK:90:MET:SD	2.30	0.71
1:9:88:PRO:HB3	1:Ae:90:MET:SD	2.30	0.71
1:Au:88:PRO:HB3	1:Az:90:MET:SD	2.30	0.71
1:BI:88:PRO:HB3	1:Bo:90:MET:SD	2.30	0.71
1:F:90:MET:SD	1:Ac:88:PRO:HB3	2.30	0.71
1:y:90:MET:SD	1:BX:88:PRO:HB3	2.30	0.71
1:Ao:88:PRO:HB3	1:Bl:90:MET:SD	2.30	0.71
1:G:88:PRO:HB3	1:m:90:MET:SD	2.30	0.71
1:AN:88:PRO:HB3	1:A9:90:MET:SD	2.30	0.71
1:BT:90:MET:SD	1:By:88:PRO:HB3	2.30	0.71
1:Al:88:PRO:HB3	1:Bx:90:MET:SD	2.30	0.71
1:Aw:90:MET:SD	1:Bs:88:PRO:HB3	2.30	0.71
1:a:90:MET:SD	1:Ar:88:PRO:HB3	2.30	0.71
1:O:90:MET:SD	1:Af:88:PRO:HB3	2.30	0.71
1:Y:88:PRO:HB3	1:5:90:MET:SD	2.30	0.71
1:v:90:MET:SD	1:AB:88:PRO:HB3	2.30	0.71
1:6:88:PRO:HB3	1:BQ:90:MET:SD	2.30	0.71
1:AG:90:MET:SD	1:BF:88:PRO:HB3	2.30	0.71
1:Ai:88:PRO:HB3	1:BE:90:MET:SD	2.30	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:90:MET:SD	1:Ba:88:PRO:HB3	2.30	0.70
1:j:90:MET:SD	1:AE:88:PRO:HB3	2.30	0.70
1:J:88:PRO:HB3	1:AV:90:MET:SD	2.30	0.70
1:Bm:88:PRO:HB3	1:Br:90:MET:SD	2.30	0.70
1:I:90:MET:SD	1:A0:88:PRO:HB3	2.30	0.70
1:S:88:PRO:HB3	1:X:90:MET:SD	2.30	0.70
1:q:88:PRO:HB3	1:AM:90:MET:SD	2.30	0.70
1:AY:90:MET:SD	1:Ax:88:PRO:HB3	2.30	0.70
1:BU:88:PRO:HB3	1:BZ:90:MET:SD	2.30	0.70
1:s:90:MET:SD	1:B2:88:PRO:HB3	2.30	0.70
1:U:90:MET:SD	1:AQ:88:PRO:HB3	2.30	0.70
1:BN:90:MET:SD	1:Bd:88:PRO:HB3	2.30	0.70
1:D:88:PRO:HB3	1:Aq:90:MET:SD	2.30	0.69
1:9:167:MET:HE3	1:Bj:235:ILE:CD1	2.26	0.66
1:Al:167:MET:HE3	1:A4:235:ILE:CD1	2.26	0.66
1:D:167:MET:HE3	1:Ac:235:ILE:CD1	2.26	0.66
1:G:235:ILE:CD1	1:k:167:MET:HE3	2.26	0.66
1:w:167:MET:HE3	1:BX:235:ILE:CD1	2.26	0.66
1:Bd:167:MET:HE3	1:Bv:235:ILE:CD1	2.26	0.66
1:M:235:ILE:CD1	1:AH:167:MET:HE3	2.26	0.66
1:P:167:MET:HE3	1:w:235:ILE:CD1	2.26	0.66
1:b:167:MET:HE3	1:t:235:ILE:CD1	2.26	0.66
1:k:235:ILE:CD1	1:n:167:MET:HE3	2.26	0.66
1:9:235:ILE:CD1	1:Ac:167:MET:HE3	2.26	0.66
1:BC:235:ILE:CD1	1:BF:167:MET:HE3	2.26	0.66
1:h:235:ILE:CD1	1:Ai:167:MET:HE3	2.26	0.66
1:Al:235:ILE:CD1	1:Bv:167:MET:HE3	2.26	0.66
1:Ao:235:ILE:CD1	1:Bj:167:MET:HE3	2.26	0.66
1:Ar:167:MET:HE3	1:BO:235:ILE:CD1	2.26	0.66
1:A4:167:MET:HE3	1:BL:235:ILE:CD1	2.26	0.66
1:A:235:ILE:CD1	1:Af:167:MET:HE3	2.26	0.66
1:3:235:ILE:CD1	1:6:167:MET:HE3	2.26	0.66
1:AB:167:MET:HE3	1:AT:235:ILE:CD1	2.26	0.66
1:AK:235:ILE:CD1	1:AN:167:MET:HE3	2.26	0.66
1:V:235:ILE:CD1	1:By:167:MET:HE3	2.26	0.65
1:A1:235:ILE:CD1	1:BU:167:MET:HE3	2.26	0.65
1:A0:167:MET:HE3	1:Bg:235:ILE:CD1	2.26	0.65
1:D:235:ILE:CD1	1:Ao:167:MET:HE3	2.26	0.65
1:BR:167:MET:HE3	1:By:235:ILE:CD1	2.26	0.65
1:A:167:MET:HE3	1:Ba:235:ILE:CD1	2.26	0.65
1:J:235:ILE:CD1	1:AT:167:MET:HE3	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:167:MET:HE3	1:AQ:235:ILE:CD1	2.26	0.65
1:AN:235:ILE:CD1	1:A7:167:MET:HE3	2.26	0.65
1:BI:125:TYR:HH	1:Bo:125:TYR:HH	1.44	0.65
1:e:167:MET:HE3	1:Bp:235:ILE:CD1	2.26	0.65
1:q:167:MET:HE3	1:B2:235:ILE:CD1	2.26	0.65
1:z:167:MET:HE3	1:AW:235:ILE:CD1	2.26	0.65
1:Au:167:MET:HE3	1:Bs:235:ILE:CD1	2.26	0.65
1:BL:167:MET:HE3	1:Bd:235:ILE:CD1	2.26	0.65
1:h:167:MET:HE3	1:AE:235:ILE:CD1	2.26	0.65
1:n:235:ILE:CD1	1:Bg:167:MET:HE3	2.26	0.65
1:t:167:MET:HE3	1:AB:235:ILE:CD1	2.26	0.65
1:z:235:ILE:CD1	1:Bs:167:MET:HE3	2.26	0.65
1:AZ:235:ILE:CD1	1:BI:167:MET:HE3	2.26	0.65
1:Au:235:ILE:CD1	1:Ax:167:MET:HE3	2.26	0.65
1:BI:235:ILE:CD1	1:Bm:167:MET:HE3	2.26	0.65
1:Y:235:ILE:CD1	1:3:167:MET:HE3	2.26	0.65
1:e:235:ILE:CD1	1:AZ:167:MET:HE3	2.26	0.65
1:6:235:ILE:CD1	1:BO:167:MET:HE3	2.26	0.65
1:M:167:MET:HE3	1:Af:235:ILE:CD1	2.26	0.65
1:P:235:ILE:CD1	1:A1:167:MET:HE3	2.26	0.65
1:q:235:ILE:CD1	1:AK:167:MET:HE3	2.26	0.65
1:Ai:235:ILE:CD1	1:BC:167:MET:HE3	2.26	0.65
1:S:235:ILE:CD1	1:V:167:MET:HE3	2.26	0.64
1:Y:167:MET:HE3	1:Ar:235:ILE:CD1	2.26	0.64
1:AE:167:MET:HE3	1:BF:235:ILE:CD1	2.26	0.64
1:AQ:167:MET:HE3	1:BR:235:ILE:CD1	2.26	0.64
1:A7:235:ILE:CD1	1:B2:167:MET:HE3	2.26	0.64
1:BU:235:ILE:CD1	1:BX:167:MET:HE3	2.26	0.64
1:Bm:235:ILE:CD1	1:Bp:167:MET:HE3	2.26	0.64
1:G:167:MET:HE3	1:A0:235:ILE:CD1	2.26	0.64
1:AW:167:MET:HE3	1:Ax:235:ILE:CD1	2.26	0.64
1:J:167:MET:HE3	1:b:235:ILE:CD1	2.26	0.64
1:AH:235:ILE:CD1	1:Ba:167:MET:HE3	2.26	0.64
1:g:181:ILE:HD13	1:BV:181:ILE:HG13	1.81	0.63
1:v:181:ILE:HD13	1:Ay:181:ILE:HG13	1.81	0.63
1:O:181:ILE:HD13	1:Bn:181:ILE:HG13	1.81	0.63
1:g:125:TYR:HH	1:Bp:125:TYR:HH	1.46	0.63
1:2:181:ILE:HD13	1:BA:181:ILE:HG13	1.81	0.63
1:AO:181:ILE:HG13	1:Bx:181:ILE:HD13	1.81	0.63
1:1:181:ILE:HG13	1:BB:181:ILE:HD13	1.81	0.63
1:AI:181:ILE:HG13	1:At:181:ILE:HD13	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:181:ILE:HG13	1:Br:181:ILE:HD13	1.81	0.63
1:Ae:181:ILE:HD13	1:Bz:181:ILE:HG13	1.81	0.63
1:B:181:ILE:HG13	1:AY:181:ILE:HD13	1.81	0.62
1:c:181:ILE:HG13	1:BH:181:ILE:HD13	1.81	0.62
1:f:181:ILE:HG13	1:BW:181:ILE:HD13	1.81	0.62
1:AJ:181:ILE:HD13	1:As:181:ILE:HG13	1.81	0.62
1:AM:181:ILE:HD13	1:Ap:181:ILE:HG13	1.81	0.62
1:AP:181:ILE:HD13	1:Bw:181:ILE:HG13	1.81	0.62
1:AS:181:ILE:HD13	1:Bt:181:ILE:HG13	1.81	0.62
1:T:181:ILE:HG13	1:Bi:181:ILE:HD13	1.81	0.62
1:Aa:181:ILE:HG13	1:B4:181:ILE:HD13	1.81	0.62
1:Ad:181:ILE:HG13	1:B1:181:ILE:HD13	1.81	0.62
1:X:181:ILE:HD13	1:BM:181:ILE:HG13	1.81	0.62
1:a:181:ILE:HD13	1:BJ:181:ILE:HG13	1.81	0.62
1:d:181:ILE:HD13	1:BG:181:ILE:HG13	1.81	0.62
1:AF:181:ILE:HG13	1:Aw:181:ILE:HD13	1.81	0.62
1:AG:181:ILE:HD13	1:Av:181:ILE:HG13	1.81	0.62
1:U:181:ILE:HD13	1:Bh:181:ILE:HG12	1.82	0.62
1:r:181:ILE:HG13	1:A3:181:ILE:HD13	1.81	0.62
1:s:181:ILE:HD13	1:A2:181:ILE:HG12	1.82	0.62
1:x:181:ILE:HG13	1:BE:181:ILE:HD13	1.81	0.62
1:R:181:ILE:HD13	1:Bk:181:ILE:HG12	1.82	0.62
1:U:181:ILE:HD13	1:Bh:181:ILE:HG13	1.81	0.62
1:Z:181:ILE:HG13	1:BK:181:ILE:HD13	1.81	0.62
1:s:181:ILE:HD13	1:A2:181:ILE:HG13	1.81	0.62
1:j:181:ILE:HD13	1:BS:181:ILE:HG13	1.81	0.62
1:l:181:ILE:HG13	1:BQ:181:ILE:HD13	1.81	0.62
1:m:181:ILE:HD13	1:BP:181:ILE:HG12	1.82	0.62
1:p:181:ILE:HD13	1:A5:181:ILE:HG12	1.82	0.62
1:5:181:ILE:HD13	1:A8:181:ILE:HG13	1.81	0.62
1:AF:181:ILE:HG12	1:Aw:181:ILE:HD13	1.82	0.62
1:F:181:ILE:HD13	1:Be:181:ILE:HG13	1.81	0.62
1:Z:181:ILE:HG12	1:BK:181:ILE:HD13	1.82	0.62
1:o:181:ILE:HG13	1:A6:181:ILE:HD13	1.81	0.62
1:y:181:ILE:HD13	1:BD:181:ILE:HG12	1.82	0.62
1:7:181:ILE:HG13	1:An:181:ILE:HD13	1.81	0.62
1:E:181:ILE:HG13	1:Bf:181:ILE:HD13	1.81	0.62
1:Q:181:ILE:HG13	1:Bl:181:ILE:HD13	1.81	0.62
1:X:181:ILE:HD13	1:BM:181:ILE:HG12	1.82	0.62
1:AM:181:ILE:HD13	1:Ap:181:ILE:HG12	1.82	0.62
1:m:181:ILE:HD13	1:BP:181:ILE:HG13	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:181:ILE:HD13	1:A5:181:ILE:HG13	1.81	0.62
1:u:181:ILE:HG13	1:Az:181:ILE:HD13	1.81	0.62
1:AA:181:ILE:HD13	1:Aj:181:ILE:HG13	1.81	0.62
1:K:181:ILE:HG13	1:BZ:181:ILE:HD13	1.81	0.62
1:R:181:ILE:HD13	1:Bk:181:ILE:HG13	1.81	0.62
1:4:181:ILE:HG13	1:A9:181:ILE:HD13	1.81	0.62
1:AV:181:ILE:HD13	1:Bq:181:ILE:HG13	1.81	0.62
1:C:181:ILE:HD13	1:AX:181:ILE:HG13	1.81	0.61
1:N:181:ILE:HG13	1:Bo:181:ILE:HD13	1.81	0.61
1:y:181:ILE:HD13	1:BD:181:ILE:HG13	1.81	0.61
1:F:181:ILE:HD13	1:Be:181:ILE:HG12	1.82	0.61
1:I:181:ILE:HD13	1:Bb:181:ILE:HG13	1.81	0.61
1:i:181:ILE:HG13	1:BT:181:ILE:HD13	1.81	0.61
1:AO:181:ILE:HG12	1:Bx:181:ILE:HD13	1.82	0.61
1:K:181:ILE:HG12	1:BZ:181:ILE:HD13	1.82	0.61
1:O:181:ILE:HD13	1:Bn:181:ILE:HG12	1.82	0.61
1:s:125:TYR:HH	1:B2:125:TYR:HH	1.47	0.61
1:8:181:ILE:HD13	1:Am:181:ILE:HG13	1.81	0.61
1:0:181:ILE:HG13	1:Ak:181:ILE:HD13	1.81	0.61
1:E:181:ILE:HG12	1:Bf:181:ILE:HD13	1.82	0.61
1:H:181:ILE:HG12	1:Bc:181:ILE:HD13	1.82	0.61
1:v:181:ILE:HD13	1:Ay:181:ILE:HG12	1.82	0.61
1:4:181:ILE:HG12	1:A9:181:ILE:HD13	1.82	0.61
1:Ae:181:ILE:HD13	1:Bz:181:ILE:HG12	1.82	0.61
1:I:181:ILE:HD13	1:Bb:181:ILE:HG12	1.82	0.61
1:L:181:ILE:HD13	1:BY:181:ILE:HG12	1.82	0.61
1:AD:181:ILE:HD13	1:Ag:181:ILE:HG12	1.82	0.61
1:d:181:ILE:HD13	1:BG:181:ILE:HG12	1.82	0.61
1:i:181:ILE:HG12	1:BT:181:ILE:HD13	1.82	0.61
1:AC:181:ILE:HG12	1:Ah:181:ILE:HD13	1.82	0.61
1:u:181:ILE:HG12	1:Az:181:ILE:HD13	1.82	0.61
1:N:181:ILE:HG12	1:Bo:181:ILE:HD13	1.82	0.61
1:T:181:ILE:HG12	1:Bi:181:ILE:HD13	1.82	0.61
1:AJ:181:ILE:HD13	1:As:181:ILE:HG12	1.82	0.61
1:Aa:181:ILE:HG12	1:B4:181:ILE:HD13	1.82	0.61
1:C:181:ILE:HD13	1:AX:181:ILE:HG12	1.82	0.61
1:H:181:ILE:HG13	1:Bc:181:ILE:HD13	1.81	0.61
1:AA:181:ILE:HD13	1:Aj:181:ILE:HG12	1.82	0.61
1:AS:181:ILE:HD13	1:Bt:181:ILE:HG12	1.82	0.61
1:r:181:ILE:HG12	1:A3:181:ILE:HD13	1.82	0.61
1:AD:125:TYR:HH	1:AT:125:TYR:HH	1.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AU:181:ILE:HG12	1:Br:181:ILE:HD13	1.82	0.61
1:AV:181:ILE:HD13	1:Bq:181:ILE:HG12	1.82	0.61
1:L:181:ILE:HD13	1:BY:181:ILE:HG13	1.81	0.60
1:W:181:ILE:HG12	1:BN:181:ILE:HD13	1.82	0.60
1:B:181:ILE:HG12	1:AY:181:ILE:HD13	1.82	0.60
1:g:181:ILE:HD13	1:BV:181:ILE:HG12	1.82	0.60
1:7:181:ILE:HG12	1:An:181:ILE:HD13	1.82	0.60
1:AC:181:ILE:HG13	1:Ah:181:ILE:HD13	1.81	0.60
1:AD:181:ILE:HD13	1:Ag:181:ILE:HG13	1.81	0.60
1:AG:181:ILE:HD13	1:Av:181:ILE:HG12	1.82	0.60
1:AI:181:ILE:HG12	1:At:181:ILE:HD13	1.82	0.60
1:5:181:ILE:HD13	1:A8:181:ILE:HG12	1.82	0.60
1:0:181:ILE:HG12	1:Ak:181:ILE:HD13	1.82	0.60
1:AL:181:ILE:HG12	1:Aq:181:ILE:HD13	1.82	0.60
1:a:181:ILE:HD13	1:BJ:181:ILE:HG12	1.82	0.60
1:c:181:ILE:HG12	1:BH:181:ILE:HD13	1.82	0.60
1:2:181:ILE:HD13	1:BA:181:ILE:HG12	1.82	0.60
1:AP:181:ILE:HD13	1:Bw:181:ILE:HG12	1.82	0.60
1:Ab:181:ILE:HD13	1:B3:181:ILE:HG13	1.81	0.60
1:8:181:ILE:HD13	1:Am:181:ILE:HG12	1.82	0.60
1:AR:181:ILE:HG13	1:Bu:181:ILE:HD13	1.81	0.60
1:Ad:181:ILE:HG12	1:B1:181:ILE:HD13	1.82	0.60
1:j:181:ILE:HD13	1:BS:181:ILE:HG12	1.82	0.60
1:AR:181:ILE:HG12	1:Bu:181:ILE:HD13	1.82	0.60
1:Ar:167:MET:CE	1:BO:235:ILE:CD1	2.80	0.60
1:Q:181:ILE:HG12	1:Bl:181:ILE:HD13	1.82	0.60
1:1:181:ILE:HG12	1:BB:181:ILE:HD13	1.82	0.60
1:BC:235:ILE:CD1	1:BF:167:MET:CE	2.80	0.60
1:D:167:MET:CE	1:Ac:235:ILE:CD1	2.80	0.60
1:e:235:ILE:CD1	1:AZ:167:MET:CE	2.80	0.60
1:f:181:ILE:HG12	1:BW:181:ILE:HD13	1.82	0.60
1:x:181:ILE:HG12	1:BE:181:ILE:HD13	1.82	0.60
1:z:235:ILE:CD1	1:Bs:167:MET:CE	2.80	0.60
1:Ab:181:ILE:HD13	1:B3:181:ILE:HG12	1.82	0.60
1:Bd:167:MET:CE	1:Bv:235:ILE:CD1	2.80	0.60
1:A:167:MET:CE	1:Ba:235:ILE:CD1	2.80	0.60
1:D:235:ILE:CD1	1:Ao:167:MET:CE	2.80	0.60
1:J:235:ILE:CD1	1:AT:167:MET:CE	2.80	0.60
1:b:167:MET:CE	1:t:235:ILE:CD1	2.80	0.60
1:o:181:ILE:HG12	1:A6:181:ILE:HD13	1.82	0.60
1:9:167:MET:CE	1:Bj:235:ILE:CD1	2.80	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:235:ILE:CD1	1:A7:167:MET:CE	2.80	0.60
1:BL:167:MET:CE	1:Bd:235:ILE:CD1	2.80	0.60
1:BR:167:MET:CE	1:By:235:ILE:CD1	2.80	0.60
1:G:167:MET:CE	1:A0:235:ILE:CD1	2.80	0.60
1:M:235:ILE:CD1	1:AH:167:MET:CE	2.80	0.60
1:h:235:ILE:CD1	1:Ai:167:MET:CE	2.80	0.60
1:l:181:ILE:HG12	1:BQ:181:ILE:HD13	1.82	0.60
1:q:235:ILE:CD1	1:AK:167:MET:CE	2.80	0.60
1:Al:167:MET:CE	1:A4:235:ILE:CD1	2.80	0.60
1:BU:235:ILE:CD1	1:BX:167:MET:CE	2.80	0.60
1:S:235:ILE:CD1	1:V:167:MET:CE	2.80	0.59
1:3:235:ILE:CD1	1:6:167:MET:CE	2.80	0.59
1:AZ:235:ILE:CD1	1:BI:167:MET:CE	2.80	0.59
1:Au:167:MET:CE	1:Bs:235:ILE:CD1	2.80	0.59
1:A7:235:ILE:CD1	1:B2:167:MET:CE	2.80	0.59
1:U:125:TYR:HH	1:AQ:125:TYR:HH	1.50	0.59
1:w:167:MET:CE	1:BX:235:ILE:CD1	2.80	0.59
1:AL:181:ILE:HG13	1:Aq:181:ILE:HD13	1.81	0.59
1:AQ:167:MET:CE	1:BR:235:ILE:CD1	2.80	0.59
1:Au:235:ILE:CD1	1:Ax:167:MET:CE	2.80	0.59
1:BI:235:ILE:CD1	1:Bm:167:MET:CE	2.80	0.59
1:G:235:ILE:CD1	1:k:167:MET:CE	2.80	0.59
1:A:125:TYR:HH	1:Ah:125:TYR:HH	1.48	0.59
1:A:235:ILE:CD1	1:Af:167:MET:CE	2.80	0.59
1:J:167:MET:CE	1:b:235:ILE:CD1	2.80	0.59
1:P:235:ILE:CD1	1:A1:167:MET:CE	2.80	0.59
1:t:167:MET:CE	1:AB:235:ILE:CD1	2.80	0.59
1:AB:167:MET:CE	1:AT:235:ILE:CD1	2.80	0.59
1:AH:235:ILE:CD1	1:Ba:167:MET:CE	2.80	0.59
1:M:167:MET:CE	1:Af:235:ILE:CD1	2.80	0.59
1:W:181:ILE:HG13	1:BN:181:ILE:HD13	1.81	0.59
1:n:235:ILE:CD1	1:Bg:167:MET:CE	2.80	0.59
1:q:167:MET:CE	1:B2:235:ILE:CD1	2.80	0.59
1:Ao:235:ILE:CD1	1:Bj:167:MET:CE	2.80	0.59
1:A4:167:MET:CE	1:BL:235:ILE:CD1	2.80	0.59
1:P:167:MET:CE	1:w:235:ILE:CD1	2.80	0.59
1:S:167:MET:CE	1:AQ:235:ILE:CD1	2.80	0.59
1:k:235:ILE:CD1	1:n:167:MET:CE	2.80	0.59
1:9:235:ILE:CD1	1:Ac:167:MET:CE	2.80	0.59
1:e:167:MET:CE	1:Bp:235:ILE:CD1	2.80	0.59
1:z:167:MET:CE	1:AW:235:ILE:CD1	2.80	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:167:MET:CE	1:BF:235:ILE:CD1	2.80	0.59
1:AW:167:MET:CE	1:Ax:235:ILE:CD1	2.80	0.59
1:A1:235:ILE:CD1	1:BU:167:MET:CE	2.80	0.59
1:A0:167:MET:CE	1:Bg:235:ILE:CD1	2.80	0.59
1:Bm:235:ILE:CD1	1:Bp:167:MET:CE	2.80	0.59
1:Y:167:MET:CE	1:Ar:235:ILE:CD1	2.80	0.59
1:Al:235:ILE:CD1	1:Bv:167:MET:CE	2.80	0.59
1:9:125:TYR:HH	1:Ae:125:TYR:HH	1.49	0.59
1:h:167:MET:CE	1:AE:235:ILE:CD1	2.80	0.59
1:Ai:235:ILE:CD1	1:BC:167:MET:CE	2.80	0.59
1:BT:125:TYR:HH	1:By:125:TYR:HH	1.47	0.59
1:Y:235:ILE:CD1	1:3:167:MET:CE	2.80	0.58
1:z:125:TYR:HH	1:Bu:125:TYR:HH	1.50	0.58
1:6:235:ILE:CD1	1:BO:167:MET:CE	2.80	0.58
1:V:235:ILE:CD1	1:By:167:MET:CE	2.80	0.58
1:AK:235:ILE:CD1	1:AN:167:MET:CE	2.80	0.58
1:e:126:ARG:HB3	1:e:244:TYR:HD2	1.69	0.58
1:z:126:ARG:HB3	1:z:244:TYR:HD2	1.69	0.58
1:6:126:ARG:HB3	1:6:244:TYR:HD2	1.69	0.58
1:AW:126:ARG:HB3	1:AW:244:TYR:HD2	1.69	0.58
1:Ai:126:ARG:HB3	1:Ai:244:TYR:HD2	1.69	0.58
1:G:126:ARG:HB3	1:G:244:TYR:HD2	1.69	0.58
1:BX:126:ARG:HB3	1:BX:244:TYR:HD2	1.69	0.58
1:Bp:126:ARG:HB3	1:Bp:244:TYR:HD2	1.69	0.58
1:t:126:ARG:HB3	1:t:244:TYR:HD2	1.69	0.58
1:AH:126:ARG:HB3	1:AH:244:TYR:HD2	1.69	0.58
1:BU:126:ARG:HB3	1:BU:244:TYR:HD2	1.69	0.58
1:M:126:ARG:HB3	1:M:244:TYR:HD2	1.69	0.58
1:b:126:ARG:HB3	1:b:244:TYR:HD2	1.69	0.58
1:A0:126:ARG:HB3	1:A0:244:TYR:HD2	1.69	0.58
1:S:126:ARG:HB3	1:S:244:TYR:HD2	1.69	0.58
1:q:126:ARG:HB3	1:q:244:TYR:HD2	1.69	0.58
1:At:125:TYR:HH	1:BO:125:TYR:HH	1.49	0.58
1:Af:126:ARG:HB3	1:Af:244:TYR:HD2	1.69	0.58
1:AB:126:ARG:HB3	1:AB:244:TYR:HD2	1.69	0.58
1:AM:149:THR:HB	1:AM:217:TRP:HD1	1.69	0.58
1:AN:125:TYR:HH	1:A9:125:TYR:HH	1.48	0.58
1:AZ:126:ARG:HB3	1:AZ:244:TYR:HD2	1.69	0.58
1:BF:126:ARG:HB3	1:BF:244:TYR:HD2	1.69	0.58
1:BO:126:ARG:HB3	1:BO:244:TYR:HD2	1.69	0.58
1:C:149:THR:HB	1:C:217:TRP:HD1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:149:THR:HB	1:X:217:TRP:HD1	1.69	0.57
1:n:126:ARG:HB3	1:n:244:TYR:HD2	1.69	0.57
1:AE:126:ARG:HB3	1:AE:244:TYR:HD2	1.69	0.57
1:AV:149:THR:HB	1:AV:217:TRP:HD1	1.69	0.57
1:Ah:149:THR:HB	1:Ah:217:TRP:HD1	1.69	0.57
1:A3:149:THR:HB	1:A3:217:TRP:HD1	1.69	0.57
1:A4:126:ARG:HB3	1:A4:244:TYR:HD2	1.69	0.57
1:BC:126:ARG:HB3	1:BC:244:TYR:HD2	1.69	0.57
1:Ba:126:ARG:HB3	1:Ba:244:TYR:HD2	1.69	0.57
1:J:126:ARG:HB3	1:J:244:TYR:HD2	1.69	0.57
1:P:126:ARG:HB3	1:P:244:TYR:HD2	1.69	0.57
1:Y:126:ARG:HB3	1:Y:244:TYR:HD2	1.69	0.57
1:h:126:ARG:HB3	1:h:244:TYR:HD2	1.69	0.57
1:AA:149:THR:HB	1:AA:217:TRP:HD1	1.69	0.57
1:AD:149:THR:HB	1:AD:217:TRP:HD1	1.69	0.57
1:An:149:THR:HB	1:An:217:TRP:HD1	1.69	0.57
1:Ar:126:ARG:HB3	1:Ar:244:TYR:HD2	1.69	0.57
1:Ax:126:ARG:HB3	1:Ax:244:TYR:HD2	1.69	0.57
1:Bs:126:ARG:HB3	1:Bs:244:TYR:HD2	1.69	0.57
1:Bu:149:THR:HB	1:Bu:217:TRP:HD1	1.69	0.57
1:s:149:THR:HB	1:s:217:TRP:HD1	1.69	0.57
1:Ab:149:THR:HB	1:Ab:217:TRP:HD1	1.69	0.57
1:Ao:126:ARG:HB3	1:Ao:244:TYR:HD2	1.69	0.57
1:Aw:149:THR:HB	1:Aw:217:TRP:HD1	1.69	0.57
1:BK:149:THR:HB	1:BK:217:TRP:HD1	1.69	0.57
1:Bi:149:THR:HB	1:Bi:217:TRP:HD1	1.69	0.57
1:Bj:126:ARG:HB3	1:Bj:244:TYR:HD2	1.69	0.57
1:G:125:TYR:HH	1:m:125:TYR:HH	1.49	0.57
1:U:149:THR:HB	1:U:217:TRP:HD1	1.69	0.57
1:a:149:THR:HB	1:a:217:TRP:HD1	1.69	0.57
1:3:126:ARG:HB3	1:3:244:TYR:HD2	1.69	0.57
1:At:149:THR:HB	1:At:217:TRP:HD1	1.69	0.57
1:BE:149:THR:HB	1:BE:217:TRP:HD1	1.69	0.57
1:BH:149:THR:HB	1:BH:217:TRP:HD1	1.69	0.57
1:BL:126:ARG:HB3	1:BL:244:TYR:HD2	1.69	0.57
1:BQ:149:THR:HB	1:BQ:217:TRP:HD1	1.69	0.57
1:Bm:126:ARG:HB3	1:Bm:244:TYR:HD2	1.69	0.57
1:AG:149:THR:HB	1:AG:217:TRP:HD1	1.69	0.57
1:A:126:ARG:HB3	1:A:244:TYR:HD2	1.69	0.57
1:8:149:THR:HB	1:8:217:TRP:HD1	1.69	0.57
1:Ak:149:THR:HB	1:Ak:217:TRP:HD1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Al:125:TYR:HH	1:Bx:125:TYR:HH	1.52	0.57
1:A6:149:THR:HB	1:A6:217:TRP:HD1	1.69	0.57
1:AT:126:ARG:HB3	1:AT:244:TYR:HD2	1.69	0.57
1:Bl:149:THR:HB	1:Bl:217:TRP:HD1	1.69	0.57
1:m:149:THR:HB	1:m:217:TRP:HD1	1.69	0.57
1:p:149:THR:HB	1:p:217:TRP:HD1	1.69	0.57
1:Ae:149:THR:HB	1:Ae:217:TRP:HD1	1.69	0.57
1:B2:126:ARG:HB3	1:B2:244:TYR:HD2	1.69	0.57
1:V:126:ARG:HB3	1:V:244:TYR:HD2	1.69	0.57
1:y:149:THR:HB	1:y:217:TRP:HD1	1.69	0.57
1:B4:149:THR:HB	1:B4:217:TRP:HD1	1.69	0.57
1:R:149:THR:HB	1:R:217:TRP:HD1	1.69	0.57
1:w:126:ARG:HB3	1:w:244:TYR:HD2	1.69	0.57
1:AK:126:ARG:HB3	1:AK:244:TYR:HD2	1.69	0.57
1:AQ:126:ARG:HB3	1:AQ:244:TYR:HD2	1.69	0.57
1:Al:126:ARG:HB3	1:Al:244:TYR:HD2	1.69	0.57
1:Bg:126:ARG:HB3	1:Bg:244:TYR:HD2	1.69	0.57
1:Bx:149:THR:HB	1:Bx:217:TRP:HD1	1.69	0.57
1:k:126:ARG:HB3	1:k:244:TYR:HD2	1.69	0.56
1:AS:149:THR:HB	1:AS:217:TRP:HD1	1.69	0.56
1:Az:149:THR:HB	1:Az:217:TRP:HD1	1.69	0.56
1:BI:126:ARG:HB3	1:BI:244:TYR:HD2	1.69	0.56
1:BZ:149:THR:HB	1:BZ:217:TRP:HD1	1.69	0.56
1:Bv:126:ARG:HB3	1:Bv:244:TYR:HD2	1.69	0.56
1:9:126:ARG:HB3	1:9:244:TYR:HD2	1.69	0.56
1:Au:126:ARG:HB3	1:Au:244:TYR:HD2	1.69	0.56
1:BW:149:THR:HB	1:BW:217:TRP:HD1	1.69	0.56
1:F:149:THR:HB	1:F:217:TRP:HD1	1.69	0.56
1:I:149:THR:HB	1:I:217:TRP:HD1	1.69	0.56
1:O:149:THR:HB	1:O:217:TRP:HD1	1.69	0.56
1:v:149:THR:HB	1:v:217:TRP:HD1	1.69	0.56
1:AJ:149:THR:HB	1:AJ:217:TRP:HD1	1.69	0.56
1:Ac:126:ARG:HB3	1:Ac:244:TYR:HD2	1.69	0.56
1:A1:126:ARG:HB3	1:A1:244:TYR:HD2	1.69	0.56
1:BB:149:THR:HB	1:BB:217:TRP:HD1	1.69	0.56
1:Bo:149:THR:HB	1:Bo:217:TRP:HD1	1.69	0.56
1:L:149:THR:HB	1:L:217:TRP:HD1	1.69	0.56
1:d:149:THR:HB	1:d:217:TRP:HD1	1.69	0.56
1:Bf:149:THR:HB	1:Bf:217:TRP:HD1	1.69	0.56
1:AN:126:ARG:HB3	1:AN:244:TYR:HD2	1.69	0.56
1:Aq:149:THR:HB	1:Aq:217:TRP:HD1	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BN:149:THR:HB	1:BN:217:TRP:HD1	1.69	0.56
1:Bd:126:ARG:HB3	1:Bd:244:TYR:HD2	1.69	0.56
1:By:126:ARG:HB3	1:By:244:TYR:HD2	1.69	0.56
1:g:149:THR:HB	1:g:217:TRP:HD1	1.69	0.56
1:2:149:THR:HB	1:2:217:TRP:HD1	1.69	0.56
1:Ao:125:TYR:HH	1:Bl:125:TYR:HH	1.54	0.56
1:Bc:149:THR:HB	1:Bc:217:TRP:HD1	1.69	0.56
1:D:126:ARG:HB3	1:D:244:TYR:HD2	1.69	0.56
1:AP:149:THR:HB	1:AP:217:TRP:HD1	1.69	0.56
1:Br:149:THR:HB	1:Br:217:TRP:HD1	1.69	0.56
1:q:125:TYR:HH	1:AM:125:TYR:HH	1.54	0.56
1:6:125:TYR:HH	1:BQ:125:TYR:HH	1.54	0.56
1:AY:149:THR:HB	1:AY:217:TRP:HD1	1.69	0.56
1:A9:149:THR:HB	1:A9:217:TRP:HD1	1.69	0.56
1:BR:126:ARG:HB3	1:BR:244:TYR:HD2	1.69	0.56
1:B1:149:THR:HB	1:B1:217:TRP:HD1	1.69	0.56
1:A7:126:ARG:HB3	1:A7:244:TYR:HD2	1.69	0.56
1:BN:125:TYR:HH	1:Bd:125:TYR:HH	1.53	0.56
1:BT:149:THR:HB	1:BT:217:TRP:HD1	1.69	0.56
1:D:125:TYR:HH	1:Aq:125:TYR:HH	1.53	0.55
1:j:149:THR:HB	1:j:217:TRP:HD1	1.69	0.55
1:5:149:THR:HB	1:5:217:TRP:HD1	1.69	0.55
1:AG:125:TYR:HH	1:BF:125:TYR:HH	1.50	0.55
1:j:125:TYR:HH	1:AE:125:TYR:HH	1.54	0.54
1:Ai:125:TYR:OH	1:BE:125:TYR:OH	2.25	0.54
1:BC:125:TYR:OH	1:BH:125:TYR:OH	2.25	0.54
1:Y:125:TYR:HH	1:5:125:TYR:HH	1.54	0.54
1:h:125:TYR:OH	1:Ak:125:TYR:OH	2.26	0.54
1:n:125:TYR:HH	1:Bi:125:TYR:HH	1.49	0.54
1:P:125:TYR:HH	1:A3:125:TYR:HH	1.49	0.54
1:k:125:TYR:HH	1:p:125:TYR:HH	1.56	0.53
1:O:125:TYR:HH	1:Af:125:TYR:HH	1.57	0.53
1:AN:90:MET:HG2	1:A9:90:MET:CG	2.39	0.53
1:Bn:68:LEU:HD22	1:Br:63:ASP:HA	1.91	0.53
1:D:90:MET:HG2	1:Aq:90:MET:CG	2.39	0.53
1:M:90:MET:HG2	1:AJ:90:MET:CG	2.39	0.53
1:P:90:MET:HG2	1:A3:90:MET:CG	2.39	0.53
1:d:90:MET:CG	1:t:90:MET:HG2	2.39	0.53
1:n:90:MET:HG2	1:Bi:90:MET:CG	2.39	0.53
1:6:90:MET:HG2	1:BQ:90:MET:CG	2.39	0.53
1:7:68:LEU:HD22	1:BQ:63:ASP:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AY:63:ASP:HA	1:Ay:68:LEU:HD22	1.91	0.53
1:Aj:68:LEU:HD22	1:BE:63:ASP:HA	1.91	0.53
1:Av:68:LEU:HD22	1:Az:63:ASP:HA	1.91	0.53
1:A1:90:MET:HG2	1:BW:90:MET:CG	2.39	0.53
1:BB:90:MET:CG	1:Bg:90:MET:HG2	2.39	0.53
1:BJ:68:LEU:HD22	1:Bo:63:ASP:HA	1.91	0.53
1:BN:90:MET:CG	1:Bd:90:MET:HG2	2.39	0.53
1:BT:90:MET:CG	1:By:90:MET:HG2	2.39	0.53
1:Z:68:LEU:HD22	1:5:63:ASP:HA	1.91	0.53
1:f:68:LEU:HD22	1:Ab:63:ASP:HA	1.91	0.53
1:g:63:ASP:HA	1:Bq:68:LEU:HD22	1.91	0.53
1:2:63:ASP:HA	1:AX:68:LEU:HD22	1.91	0.53
1:0:68:LEU:HD22	1:Ae:63:ASP:HA	1.91	0.53
1:Ai:90:MET:HG2	1:BE:90:MET:CG	2.39	0.53
1:Am:68:LEU:HD22	1:Bx:63:ASP:HA	1.91	0.53
1:At:63:ASP:HA	1:BP:68:LEU:HD22	1.91	0.53
1:L:90:MET:CG	1:b:90:MET:HG2	2.39	0.53
1:j:63:ASP:HA	1:AF:68:LEU:HD22	1.91	0.53
1:1:68:LEU:HD22	1:Bu:63:ASP:HA	1.91	0.53
1:AA:125:TYR:HH	1:Bj:125:TYR:HH	1.54	0.53
1:AH:90:MET:HG2	1:Bc:90:MET:CG	2.39	0.53
1:At:90:MET:CG	1:BO:90:MET:HG2	2.39	0.53
1:Aw:63:ASP:HA	1:Bt:68:LEU:HD22	1.91	0.53
1:BC:90:MET:HG2	1:BH:90:MET:CG	2.39	0.53
1:BD:68:LEU:HD22	1:BH:63:ASP:HA	1.91	0.53
1:H:68:LEU:HD22	1:m:63:ASP:HA	1.91	0.52
1:y:63:ASP:HA	1:BY:68:LEU:HD22	1.91	0.52
1:4:68:LEU:HD22	1:8:63:ASP:HA	1.91	0.52
1:Aa:68:LEU:HD22	1:BK:63:ASP:HA	1.91	0.52
1:I:90:MET:CG	1:A0:90:MET:HG2	2.39	0.52
1:J:90:MET:HG2	1:AV:90:MET:CG	2.39	0.52
1:S:90:MET:HG2	1:X:90:MET:CG	2.39	0.52
1:i:68:LEU:HD22	1:Ak:63:ASP:HA	1.91	0.52
1:Al:90:MET:HG2	1:Bx:90:MET:CG	2.39	0.52
1:Ap:68:LEU:HD22	1:Bl:63:ASP:HA	1.91	0.52
1:Au:90:MET:HG2	1:Az:90:MET:CG	2.39	0.52
1:BI:90:MET:HG2	1:Bo:90:MET:CG	2.39	0.52
1:BU:90:MET:HG2	1:BZ:90:MET:CG	2.39	0.52
1:C:90:MET:CG	1:Ba:90:MET:HG2	2.39	0.52
1:F:90:MET:CG	1:Ac:90:MET:HG2	2.39	0.52
1:V:90:MET:HG2	1:B1:90:MET:CG	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:90:MET:CG	1:Ar:90:MET:HG2	2.39	0.52
1:o:68:LEU:HD22	1:Bi:63:ASP:HA	1.91	0.52
1:q:90:MET:HG2	1:AM:90:MET:CG	2.39	0.52
1:9:90:MET:HG2	1:Ae:90:MET:CG	2.39	0.52
1:AO:68:LEU:HD22	1:A9:63:ASP:HA	1.91	0.52
1:O:90:MET:CG	1:Af:90:MET:HG2	2.39	0.52
1:Q:68:LEU:HD22	1:A3:63:ASP:HA	1.91	0.52
1:g:90:MET:CG	1:Bp:90:MET:HG2	2.39	0.52
1:s:63:ASP:HA	1:B3:68:LEU:HD22	1.91	0.52
1:v:90:MET:CG	1:AB:90:MET:HG2	2.39	0.52
1:2:90:MET:CG	1:AW:90:MET:HG2	2.39	0.52
1:AK:90:MET:HG2	1:AP:90:MET:CG	2.39	0.52
1:AY:90:MET:CG	1:Ax:90:MET:HG2	2.39	0.52
1:AZ:90:MET:HG2	1:BK:90:MET:CG	2.39	0.52
1:Aw:90:MET:CG	1:Bs:90:MET:HG2	2.39	0.52
1:A6:63:ASP:HA	1:BM:68:LEU:HD22	1.91	0.52
1:BT:63:ASP:HA	1:Bz:68:LEU:HD22	1.91	0.52
1:Bf:90:MET:CG	1:Bv:90:MET:HG2	2.39	0.52
1:I:63:ASP:HA	1:BA:68:LEU:HD22	1.91	0.52
1:U:63:ASP:HA	1:AR:68:LEU:HD22	1.91	0.52
1:h:90:MET:HG2	1:Ak:90:MET:CG	2.39	0.52
1:3:90:MET:HG2	1:8:90:MET:CG	2.39	0.52
1:AG:90:MET:CG	1:BF:90:MET:HG2	2.39	0.52
1:BV:68:LEU:HD22	1:BZ:63:ASP:HA	1.91	0.52
1:Bm:90:MET:HG2	1:Br:90:MET:CG	2.39	0.52
1:G:90:MET:HG2	1:m:90:MET:CG	2.39	0.52
1:k:90:MET:HG2	1:p:90:MET:CG	2.39	0.52
1:l:68:LEU:HD22	1:p:63:ASP:HA	1.91	0.52
1:An:63:ASP:HA	1:A5:68:LEU:HD22	1.91	0.52
1:R:63:ASP:HA	1:x:68:LEU:HD22	1.91	0.52
1:R:90:MET:CG	1:w:90:MET:HG2	2.39	0.52
1:W:68:LEU:HD22	1:B1:63:ASP:HA	1.91	0.52
1:y:90:MET:CG	1:BX:90:MET:HG2	2.39	0.52
1:AS:90:MET:CG	1:BR:90:MET:HG2	2.39	0.52
1:An:125:TYR:HH	1:A4:125:TYR:HH	1.55	0.52
1:A7:90:MET:HG2	1:B4:90:MET:CG	2.39	0.52
1:F:63:ASP:HA	1:Ad:68:LEU:HD22	1.91	0.52
1:a:63:ASP:HA	1:As:68:LEU:HD22	1.91	0.52
1:a:125:TYR:HH	1:Ar:125:TYR:HH	1.52	0.52
1:s:90:MET:CG	1:B2:90:MET:HG2	2.39	0.52
1:AA:63:ASP:HA	1:Bk:68:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:63:ASP:HA	1:AU:68:LEU:HD22	1.91	0.52
1:AL:68:LEU:HD22	1:AP:63:ASP:HA	1.91	0.52
1:B:68:LEU:HD22	1:Ah:63:ASP:HA	1.91	0.52
1:d:125:TYR:OH	1:t:125:TYR:OH	2.25	0.52
1:j:90:MET:CG	1:AE:90:MET:HG2	2.39	0.52
1:AG:63:ASP:HA	1:BG:68:LEU:HD22	1.91	0.52
1:An:90:MET:CG	1:A4:90:MET:HG2	2.39	0.52
1:A:90:MET:HG2	1:Ah:90:MET:CG	2.39	0.52
1:M:125:TYR:OH	1:AJ:125:TYR:OH	2.25	0.52
1:U:90:MET:CG	1:AQ:90:MET:HG2	2.39	0.52
1:Y:90:MET:HG2	1:5:90:MET:CG	2.39	0.52
1:r:68:LEU:HD22	1:AM:63:ASP:HA	1.91	0.52
1:BN:63:ASP:HA	1:Be:68:LEU:HD22	1.91	0.52
1:Bf:63:ASP:HA	1:Bw:68:LEU:HD22	1.91	0.52
1:C:63:ASP:HA	1:Bb:68:LEU:HD22	1.91	0.51
1:E:68:LEU:HD22	1:Aq:63:ASP:HA	1.91	0.51
1:a:125:TYR:OH	1:Ar:125:TYR:OH	2.25	0.51
1:AA:90:MET:CG	1:Bj:90:MET:HG2	2.39	0.51
1:K:68:LEU:HD22	1:AV:63:ASP:HA	1.91	0.51
1:T:68:LEU:HD22	1:X:63:ASP:HA	1.91	0.51
1:AD:90:MET:CG	1:AT:90:MET:HG2	2.39	0.51
1:A2:68:LEU:HD22	1:BW:63:ASP:HA	1.91	0.51
1:BB:63:ASP:HA	1:Bh:68:LEU:HD22	1.91	0.51
1:L:63:ASP:HA	1:c:68:LEU:HD22	1.91	0.51
1:e:90:MET:HG2	1:Ab:90:MET:CG	2.39	0.51
1:AI:68:LEU:HD22	1:Bc:63:ASP:HA	1.91	0.51
1:d:63:ASP:HA	1:u:68:LEU:HD22	1.91	0.51
1:N:68:LEU:HD22	1:AJ:63:ASP:HA	1.91	0.51
1:z:90:MET:HG2	1:Bu:90:MET:CG	2.39	0.51
1:AS:63:ASP:HA	1:BS:68:LEU:HD22	1.91	0.51
1:A6:90:MET:CG	1:BL:90:MET:HG2	2.39	0.51
1:Ao:90:MET:HG2	1:Bl:90:MET:CG	2.39	0.51
1:O:63:ASP:HA	1:Ag:68:LEU:HD22	1.91	0.51
1:Au:125:TYR:OH	1:Az:125:TYR:OH	2.25	0.51
1:v:63:ASP:HA	1:AC:68:LEU:HD22	1.91	0.50
1:A8:68:LEU:HD22	1:B4:63:ASP:HA	1.91	0.50
1:e:125:TYR:OH	1:Ab:125:TYR:OH	2.25	0.50
1:S:205:LEU:HD12	1:S:206:PRO:HD2	1.95	0.49
1:q:205:LEU:HD12	1:q:206:PRO:HD2	1.95	0.49
1:Au:205:LEU:HD12	1:Au:206:PRO:HD2	1.95	0.49
1:6:205:LEU:HD12	1:6:206:PRO:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:205:LEU:HD12	1:AK:206:PRO:HD2	1.95	0.49
1:AQ:205:LEU:HD12	1:AQ:206:PRO:HD2	1.95	0.49
1:Ai:205:LEU:HD12	1:Ai:206:PRO:HD2	1.95	0.49
1:Ax:205:LEU:HD12	1:Ax:206:PRO:HD2	1.95	0.49
1:BI:205:LEU:HD12	1:BI:206:PRO:HD2	1.95	0.49
1:Bm:205:LEU:HD12	1:Bm:206:PRO:HD2	1.95	0.49
1:B2:205:LEU:HD12	1:B2:206:PRO:HD2	1.95	0.49
1:J:205:LEU:HD12	1:J:206:PRO:HD2	1.95	0.49
1:V:205:LEU:HD12	1:V:206:PRO:HD2	1.95	0.49
1:Y:205:LEU:HD12	1:Y:206:PRO:HD2	1.95	0.49
1:AE:205:LEU:HD12	1:AE:206:PRO:HD2	1.95	0.49
1:A1:205:LEU:HD12	1:A1:206:PRO:HD2	1.95	0.49
1:D:205:LEU:HD12	1:D:206:PRO:HD2	1.95	0.49
1:AW:205:LEU:HD12	1:AW:206:PRO:HD2	1.95	0.49
1:Ar:205:LEU:HD12	1:Ar:206:PRO:HD2	1.95	0.49
1:Ba:205:LEU:HD12	1:Ba:206:PRO:HD2	1.95	0.49
1:Bg:205:LEU:HD12	1:Bg:206:PRO:HD2	1.95	0.49
1:Bp:205:LEU:HD12	1:Bp:206:PRO:HD2	1.95	0.49
1:M:205:LEU:HD12	1:M:206:PRO:HD2	1.95	0.48
1:h:90:MET:HG2	1:Ak:90:MET:HG3	1.95	0.48
1:t:205:LEU:HD12	1:t:206:PRO:HD2	1.95	0.48
1:3:90:MET:HG2	1:8:90:MET:HG3	1.95	0.48
1:BF:205:LEU:HD12	1:BF:206:PRO:HD2	1.95	0.48
1:Bd:205:LEU:HD12	1:Bd:206:PRO:HD2	1.95	0.48
1:A:90:MET:HG2	1:Ah:90:MET:HG3	1.96	0.48
1:g:90:MET:HG3	1:Bp:90:MET:HG2	1.95	0.48
1:v:90:MET:HG3	1:AB:90:MET:HG2	1.96	0.48
1:AD:90:MET:HG3	1:AT:90:MET:HG2	1.96	0.48
1:AN:205:LEU:HD12	1:AN:206:PRO:HD2	1.95	0.48
1:By:205:LEU:HD12	1:By:206:PRO:HD2	1.95	0.48
1:G:205:LEU:HD12	1:G:206:PRO:HD2	1.95	0.48
1:I:90:MET:HG3	1:A0:90:MET:HG2	1.95	0.48
1:O:90:MET:HG3	1:Af:90:MET:HG2	1.96	0.48
1:e:205:LEU:HD12	1:e:206:PRO:HD2	1.95	0.48
1:n:90:MET:HG2	1:Bi:90:MET:HG3	1.96	0.48
1:2:90:MET:HG3	1:AW:90:MET:HG2	1.95	0.48
1:BX:205:LEU:HD12	1:BX:206:PRO:HD2	1.95	0.48
1:Bf:125:TYR:OH	1:Bv:125:TYR:OH	2.25	0.48
1:P:90:MET:HG2	1:A3:90:MET:HG3	1.96	0.48
1:V:90:MET:HG2	1:B1:90:MET:HG3	1.96	0.48
1:n:205:LEU:HD12	1:n:206:PRO:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:205:LEU:HD12	1:z:206:PRO:HD2	1.95	0.48
1:9:205:LEU:HD12	1:9:206:PRO:HD2	1.95	0.48
1:AK:90:MET:HG2	1:AP:90:MET:HG3	1.96	0.48
1:Ai:90:MET:HG2	1:BE:90:MET:HG3	1.96	0.48
1:BU:90:MET:HG2	1:BZ:90:MET:HG3	1.95	0.48
1:L:90:MET:HG3	1:b:90:MET:HG2	1.96	0.48
1:P:205:LEU:HD12	1:P:206:PRO:HD2	1.95	0.48
1:6:90:MET:HG2	1:BQ:90:MET:HG3	1.96	0.48
1:AH:90:MET:HG2	1:Bc:90:MET:HG3	1.96	0.48
1:Al:205:LEU:HD12	1:Al:206:PRO:HD2	1.95	0.48
1:M:90:MET:HG2	1:AJ:90:MET:HG3	1.96	0.48
1:d:90:MET:HG3	1:t:90:MET:HG2	1.96	0.48
1:J:244:TYR:CD1	1:K:77:PRO:HD3	2.49	0.48
1:Y:90:MET:HG2	1:5:90:MET:HG3	1.96	0.48
1:a:90:MET:HG3	1:Ar:90:MET:HG2	1.96	0.48
1:e:244:TYR:CD1	1:f:77:PRO:HD3	2.49	0.48
1:j:90:MET:HG3	1:AE:90:MET:HG2	1.96	0.48
1:k:205:LEU:HD12	1:k:206:PRO:HD2	1.95	0.48
1:w:205:LEU:HD12	1:w:206:PRO:HD2	1.95	0.48
1:y:90:MET:HG3	1:BX:90:MET:HG2	1.96	0.48
1:z:244:TYR:CD1	1:1:77:PRO:HD3	2.49	0.48
1:AK:244:TYR:CD1	1:AL:77:PRO:HD3	2.49	0.48
1:AZ:205:LEU:HD12	1:AZ:206:PRO:HD2	1.95	0.48
1:Ba:244:TYR:CD1	1:Bb:77:PRO:HD3	2.49	0.48
1:Bs:205:LEU:HD12	1:Bs:206:PRO:HD2	1.95	0.48
1:D:244:TYR:CD1	1:E:77:PRO:HD3	2.49	0.48
1:G:90:MET:HG2	1:m:90:MET:HG3	1.96	0.48
1:G:244:TYR:CD1	1:H:77:PRO:HD3	2.49	0.48
1:P:244:TYR:CD1	1:Q:77:PRO:HD3	2.49	0.48
1:V:244:TYR:CD1	1:W:77:PRO:HD3	2.49	0.48
1:k:244:TYR:CD1	1:l:77:PRO:HD3	2.49	0.48
1:w:244:TYR:CD1	1:x:77:PRO:HD3	2.49	0.48
1:AE:244:TYR:CD1	1:AF:77:PRO:HD3	2.49	0.48
1:AG:90:MET:HG3	1:BF:90:MET:HG2	1.96	0.48
1:Ac:205:LEU:HD12	1:Ac:206:PRO:HD2	1.95	0.48
1:Ax:244:TYR:CD1	1:Ay:77:PRO:HD3	2.49	0.48
1:A4:205:LEU:HD12	1:A4:206:PRO:HD2	1.95	0.48
1:BO:244:TYR:CD1	1:BP:77:PRO:HD3	2.49	0.48
1:Bd:244:TYR:CD1	1:Be:77:PRO:HD3	2.49	0.48
1:Bm:244:TYR:CD1	1:Bn:77:PRO:HD3	2.49	0.48
1:Bv:205:LEU:HD12	1:Bv:206:PRO:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B2:244:TYR:CD1	1:B3:77:PRO:HD3	2.49	0.48
1:S:90:MET:HG2	1:X:90:MET:HG3	1.96	0.48
1:S:244:TYR:CD1	1:T:77:PRO:HD3	2.49	0.48
1:Y:244:TYR:CD1	1:Z:77:PRO:HD3	2.49	0.48
1:e:90:MET:HG2	1:Ab:90:MET:HG3	1.96	0.48
1:n:244:TYR:CD1	1:o:77:PRO:HD3	2.49	0.48
1:q:244:TYR:CD1	1:r:77:PRO:HD3	2.49	0.48
1:AQ:244:TYR:CD1	1:AR:77:PRO:HD3	2.49	0.48
1:AZ:244:TYR:CD1	1:Aa:77:PRO:HD3	2.49	0.48
1:Ai:244:TYR:CD1	1:Aj:77:PRO:HD3	2.49	0.48
1:BC:244:TYR:CD1	1:BD:77:PRO:HD3	2.49	0.48
1:BX:244:TYR:CD1	1:BY:77:PRO:HD3	2.49	0.48
1:Bj:205:LEU:HD12	1:Bj:206:PRO:HD2	1.95	0.48
1:G:235:ILE:HD13	1:k:167:MET:CE	2.40	0.48
1:q:90:MET:HG2	1:AM:90:MET:HG3	1.96	0.48
1:z:90:MET:HG2	1:Bu:90:MET:HG3	1.96	0.48
1:2:125:TYR:OH	1:AW:125:TYR:OH	2.26	0.48
1:6:244:TYR:CD1	1:7:77:PRO:HD3	2.49	0.48
1:AA:90:MET:HG3	1:Bj:90:MET:HG2	1.96	0.48
1:Ao:244:TYR:CD1	1:Ap:77:PRO:HD3	2.49	0.48
1:Au:244:TYR:CD1	1:Av:77:PRO:HD3	2.49	0.48
1:BL:244:TYR:CD1	1:BM:77:PRO:HD3	2.49	0.48
1:Bs:244:TYR:CD1	1:Bt:77:PRO:HD3	2.49	0.48
1:A:205:LEU:HD12	1:A:206:PRO:HD2	1.95	0.47
1:R:90:MET:HG3	1:w:90:MET:HG2	1.96	0.47
1:Ac:244:TYR:CD1	1:Ad:77:PRO:HD3	2.49	0.47
1:At:90:MET:HG3	1:BO:90:MET:HG2	1.96	0.47
1:Av:180:PRO:HB2	1:Av:181:ILE:HD12	1.97	0.47
1:BC:90:MET:HG2	1:BH:90:MET:HG3	1.96	0.47
1:BI:244:TYR:CD1	1:BJ:77:PRO:HD3	2.49	0.47
1:BJ:180:PRO:HB2	1:BJ:181:ILE:HD12	1.97	0.47
1:BR:205:LEU:HD12	1:BR:206:PRO:HD2	1.95	0.47
1:Bv:244:TYR:CD1	1:Bw:77:PRO:HD3	2.49	0.47
1:By:244:TYR:CD1	1:Bz:77:PRO:HD3	2.49	0.47
1:W:180:PRO:HB2	1:W:181:ILE:HD12	1.97	0.47
1:c:180:PRO:HB2	1:c:181:ILE:HD12	1.97	0.47
1:k:90:MET:HG2	1:p:90:MET:HG3	1.96	0.47
1:AI:180:PRO:HB2	1:AI:181:ILE:HD12	1.97	0.47
1:AL:180:PRO:HB2	1:AL:181:ILE:HD12	1.97	0.47
1:AN:244:TYR:CD1	1:AO:77:PRO:HD3	2.49	0.47
1:AT:205:LEU:HD12	1:AT:206:PRO:HD2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:An:90:MET:HG3	1:A4:90:MET:HG2	1.96	0.47
1:A4:244:TYR:CD1	1:A5:77:PRO:HD3	2.49	0.47
1:A7:90:MET:HG2	1:B4:90:MET:HG3	1.96	0.47
1:A7:205:LEU:HD12	1:A7:206:PRO:HD2	1.95	0.47
1:A0:244:TYR:CD1	1:BA:77:PRO:HD3	2.49	0.47
1:BU:244:TYR:CD1	1:BV:77:PRO:HD3	2.49	0.47
1:Be:180:PRO:HB2	1:Be:181:ILE:HD12	1.97	0.47
1:Bj:244:TYR:CD1	1:Bk:77:PRO:HD3	2.49	0.47
1:C:90:MET:HG3	1:Ba:90:MET:HG2	1.95	0.47
1:E:180:PRO:HB2	1:E:181:ILE:HD12	1.97	0.47
1:K:180:PRO:HB2	1:K:181:ILE:HD12	1.97	0.47
1:7:180:PRO:HB2	1:7:181:ILE:HD12	1.97	0.47
1:AB:205:LEU:HD12	1:AB:206:PRO:HD2	1.95	0.47
1:Aj:180:PRO:HB2	1:Aj:181:ILE:HD12	1.97	0.47
1:BF:244:TYR:CD1	1:BG:77:PRO:HD3	2.49	0.47
1:Bb:180:PRO:HB2	1:Bb:181:ILE:HD12	1.97	0.47
1:N:180:PRO:HB2	1:N:181:ILE:HD12	1.97	0.47
1:b:205:LEU:HD12	1:b:206:PRO:HD2	1.95	0.47
1:h:205:LEU:HD12	1:h:206:PRO:HD2	1.95	0.47
1:u:180:PRO:HB2	1:u:181:ILE:HD12	1.97	0.47
1:3:205:LEU:HD12	1:3:206:PRO:HD2	1.95	0.47
1:AN:90:MET:HG2	1:A9:90:MET:HG3	1.95	0.47
1:AS:90:MET:HG3	1:BR:90:MET:HG2	1.96	0.47
1:AW:244:TYR:CD1	1:AX:77:PRO:HD3	2.49	0.47
1:Aa:180:PRO:HB2	1:Aa:181:ILE:HD12	1.97	0.47
1:Af:205:LEU:HD12	1:Af:206:PRO:HD2	1.95	0.47
1:Ap:180:PRO:HB2	1:Ap:181:ILE:HD12	1.97	0.47
1:Ar:244:TYR:CD1	1:As:77:PRO:HD3	2.49	0.47
1:BT:90:MET:HG3	1:By:90:MET:HG2	1.95	0.47
1:Bp:244:TYR:CD1	1:Bq:77:PRO:HD3	2.49	0.47
1:Bt:180:PRO:HB2	1:Bt:181:ILE:HD12	1.97	0.47
1:I:125:TYR:OH	1:A0:125:TYR:OH	2.26	0.47
1:J:90:MET:HG2	1:AV:90:MET:HG3	1.95	0.47
1:L:125:TYR:OH	1:b:125:TYR:OH	2.25	0.47
1:l:181:ILE:CG1	1:BQ:181:ILE:CD1	2.92	0.47
1:AH:244:TYR:CD1	1:AI:77:PRO:HD3	2.49	0.47
1:Ad:180:PRO:HB2	1:Ad:181:ILE:HD12	1.97	0.47
1:A0:205:LEU:HD12	1:A0:206:PRO:HD2	1.95	0.47
1:BM:180:PRO:HB2	1:BM:181:ILE:HD12	1.97	0.47
1:Bw:180:PRO:HB2	1:Bw:181:ILE:HD12	1.97	0.47
1:M:244:TYR:CD1	1:N:77:PRO:HD3	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:181:ILE:CG1	1:BE:181:ILE:CD1	2.92	0.47
1:AH:205:LEU:HD12	1:AH:206:PRO:HD2	1.95	0.47
1:AT:244:TYR:CD1	1:AU:77:PRO:HD3	2.49	0.47
1:Ag:180:PRO:HB2	1:Ag:181:ILE:HD12	1.97	0.47
1:Al:90:MET:HG2	1:Bx:90:MET:HG3	1.95	0.47
1:BA:180:PRO:HB2	1:BA:181:ILE:HD12	1.97	0.47
1:BC:205:LEU:HD12	1:BC:206:PRO:HD2	1.95	0.47
1:BU:205:LEU:HD12	1:BU:206:PRO:HD2	1.95	0.47
1:BV:180:PRO:HB2	1:BV:181:ILE:HD12	1.97	0.47
1:BY:180:PRO:HB2	1:BY:181:ILE:HD12	1.97	0.47
1:A:244:TYR:CD1	1:B:77:PRO:HD3	2.49	0.47
1:C:181:ILE:CD1	1:AX:181:ILE:CG1	2.92	0.47
1:H:180:PRO:HB2	1:H:181:ILE:HD12	1.97	0.47
1:U:125:TYR:OH	1:AQ:125:TYR:OH	2.25	0.47
1:Y:125:TYR:OH	1:5:125:TYR:OH	2.25	0.47
1:b:244:TYR:CD1	1:c:77:PRO:HD3	2.49	0.47
1:s:90:MET:HG3	1:B2:90:MET:HG2	1.96	0.47
1:t:244:TYR:CD1	1:u:77:PRO:HD3	2.49	0.47
1:9:90:MET:HG2	1:Ae:90:MET:HG3	1.95	0.47
1:AC:180:PRO:HB2	1:AC:181:ILE:HD12	1.97	0.47
1:AK:125:TYR:OH	1:AP:125:TYR:OH	2.25	0.47
1:AV:181:ILE:CD1	1:Bq:181:ILE:CG1	2.92	0.47
1:AZ:90:MET:HG2	1:BK:90:MET:HG3	1.96	0.47
1:Al:244:TYR:CD1	1:Am:77:PRO:HD3	2.49	0.47
1:Aw:90:MET:HG3	1:Bs:90:MET:HG2	1.96	0.47
1:Ay:180:PRO:HB2	1:Ay:181:ILE:HD12	1.97	0.47
1:A7:244:TYR:CD1	1:A8:77:PRO:HD3	2.49	0.47
1:BB:90:MET:HG3	1:Bg:90:MET:HG2	1.96	0.47
1:BO:205:LEU:HD12	1:BO:206:PRO:HD2	1.95	0.47
1:BR:244:TYR:CD1	1:BS:77:PRO:HD3	2.49	0.47
1:D:90:MET:HG2	1:Aq:90:MET:HG3	1.96	0.47
1:F:90:MET:HG3	1:Ac:90:MET:HG2	1.96	0.47
1:U:90:MET:HG3	1:AQ:90:MET:HG2	1.96	0.47
1:9:244:TYR:CD1	1:0:77:PRO:HD3	2.49	0.47
1:AY:90:MET:HG3	1:Ax:90:MET:HG2	1.96	0.47
1:Ao:90:MET:HG2	1:Bl:90:MET:HG3	1.96	0.47
1:As:180:PRO:HB2	1:As:181:ILE:HD12	1.97	0.47
1:Au:90:MET:HG2	1:Az:90:MET:HG3	1.96	0.47
1:A1:90:MET:HG2	1:BW:90:MET:HG3	1.96	0.47
1:Bf:90:MET:HG3	1:Bv:90:MET:HG2	1.96	0.47
1:Bh:180:PRO:HB2	1:Bh:181:ILE:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bm:90:MET:HG2	1:Br:90:MET:HG3	1.96	0.47
1:Bn:180:PRO:HB2	1:Bn:181:ILE:HD12	1.97	0.47
1:g:181:ILE:CD1	1:BV:181:ILE:CG1	2.92	0.47
1:k:125:TYR:OH	1:p:125:TYR:OH	2.25	0.47
1:p:181:ILE:CD1	1:A5:181:ILE:CG1	2.92	0.47
1:2:181:ILE:CD1	1:BA:181:ILE:CG1	2.92	0.47
1:Al:125:TYR:OH	1:Bx:125:TYR:OH	2.26	0.47
1:A6:90:MET:HG3	1:BL:90:MET:HG2	1.96	0.47
1:BG:180:PRO:HB2	1:BG:181:ILE:HD12	1.97	0.47
1:BN:90:MET:HG3	1:Bd:90:MET:HG2	1.96	0.47
1:R:181:ILE:CD1	1:Bk:181:ILE:CG1	2.92	0.47
1:f:180:PRO:HB2	1:f:181:ILE:HD12	1.97	0.47
1:j:125:TYR:OH	1:AE:125:TYR:OH	2.25	0.47
1:1:180:PRO:HB2	1:1:181:ILE:HD12	1.97	0.47
1:AB:244:TYR:CD1	1:AC:77:PRO:HD3	2.49	0.47
1:Af:244:TYR:CD1	1:Ag:77:PRO:HD3	2.49	0.47
1:A2:180:PRO:HB2	1:A2:181:ILE:HD12	1.97	0.47
1:BI:90:MET:HG2	1:Bo:90:MET:HG3	1.96	0.47
1:E:181:ILE:CG1	1:Bf:181:ILE:CD1	2.92	0.46
1:l:180:PRO:HB2	1:l:181:ILE:HD12	1.97	0.46
1:o:181:ILE:CG1	1:A6:181:ILE:CD1	2.92	0.46
1:x:180:PRO:HB2	1:x:181:ILE:HD12	1.97	0.46
1:Ao:205:LEU:HD12	1:Ao:206:PRO:HD2	1.95	0.46
1:BL:205:LEU:HD12	1:BL:206:PRO:HD2	1.95	0.46
1:F:181:ILE:CD1	1:Be:181:ILE:CG1	2.92	0.46
1:W:181:ILE:CG1	1:BN:181:ILE:CD1	2.92	0.46
1:h:244:TYR:CD1	1:i:77:PRO:HD3	2.49	0.46
1:Bg:244:TYR:CD1	1:Bh:77:PRO:HD3	2.49	0.46
1:P:149:THR:HB	1:P:217:TRP:HD1	1.81	0.46
1:Q:180:PRO:HB2	1:Q:181:ILE:HD12	1.97	0.46
1:Q:181:ILE:CG1	1:Bl:181:ILE:CD1	2.92	0.46
1:S:125:TYR:OH	1:X:125:TYR:OH	2.25	0.46
1:n:149:THR:HB	1:n:217:TRP:HD1	1.81	0.46
1:3:244:TYR:CD1	1:4:77:PRO:HD3	2.49	0.46
1:AI:181:ILE:CG1	1:At:181:ILE:CD1	2.92	0.46
1:AL:181:ILE:CG1	1:Aq:181:ILE:CD1	2.92	0.46
1:A1:244:TYR:CD1	1:A2:77:PRO:HD3	2.49	0.46
1:BS:180:PRO:HB2	1:BS:181:ILE:HD12	1.97	0.46
1:T:180:PRO:HB2	1:T:181:ILE:HD12	1.97	0.46
1:U:180:PRO:HB2	1:U:181:ILE:HD12	1.98	0.46
1:c:181:ILE:CG1	1:BH:181:ILE:CD1	2.92	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:180:PRO:HB2	1:i:181:ILE:HD12	1.97	0.46
1:r:180:PRO:HB2	1:r:181:ILE:HD12	1.97	0.46
1:s:180:PRO:HB2	1:s:181:ILE:HD12	1.98	0.46
1:Ab:180:PRO:HB2	1:Ab:181:ILE:HD12	1.98	0.46
1:Au:149:THR:HB	1:Au:217:TRP:HD1	1.81	0.46
1:BD:180:PRO:HB2	1:BD:181:ILE:HD12	1.97	0.46
1:BI:149:THR:HB	1:BI:217:TRP:HD1	1.81	0.46
1:Bu:180:PRO:HB2	1:Bu:181:ILE:HD12	1.98	0.46
1:L:180:PRO:HB2	1:L:181:ILE:HD12	1.98	0.46
1:i:181:ILE:CG1	1:BT:181:ILE:CD1	2.92	0.46
1:k:149:THR:HB	1:k:217:TRP:HD1	1.81	0.46
1:o:180:PRO:HB2	1:o:181:ILE:HD12	1.97	0.46
1:w:149:THR:HB	1:w:217:TRP:HD1	1.81	0.46
1:4:180:PRO:HB2	1:4:181:ILE:HD12	1.97	0.46
1:8:180:PRO:HB2	1:8:181:ILE:HD12	1.98	0.46
1:AY:180:PRO:HB2	1:AY:181:ILE:HD12	1.98	0.46
1:Ak:180:PRO:HB2	1:Ak:181:ILE:HD12	1.98	0.46
1:A8:180:PRO:HB2	1:A8:181:ILE:HD12	1.97	0.46
1:BP:180:PRO:HB2	1:BP:181:ILE:HD12	1.97	0.46
1:Bc:180:PRO:HB2	1:Bc:181:ILE:HD12	1.98	0.46
1:Br:180:PRO:HB2	1:Br:181:ILE:HD12	1.98	0.46
1:C:125:TYR:OH	1:Ba:125:TYR:OH	2.26	0.46
1:O:180:PRO:HB2	1:O:181:ILE:HD12	1.98	0.46
1:v:180:PRO:HB2	1:v:181:ILE:HD12	1.98	0.46
1:4:181:ILE:CG1	1:A9:181:ILE:CD1	2.92	0.46
1:AO:180:PRO:HB2	1:AO:181:ILE:HD12	1.97	0.46
1:AX:180:PRO:HB2	1:AX:181:ILE:HD12	1.97	0.46
1:A5:180:PRO:HB2	1:A5:181:ILE:HD12	1.97	0.46
1:A9:180:PRO:HB2	1:A9:181:ILE:HD12	1.98	0.46
1:BT:180:PRO:HB2	1:BT:181:ILE:HD12	1.98	0.46
1:Bk:180:PRO:HB2	1:Bk:181:ILE:HD12	1.97	0.46
1:Bq:180:PRO:HB2	1:Bq:181:ILE:HD12	1.97	0.46
1:I:180:PRO:HB2	1:I:181:ILE:HD12	1.98	0.46
1:AZ:149:THR:HB	1:AZ:217:TRP:HD1	1.81	0.46
1:Ae:180:PRO:HB2	1:Ae:181:ILE:HD12	1.98	0.46
1:Aq:180:PRO:HB2	1:Aq:181:ILE:HD12	1.98	0.46
1:A3:180:PRO:HB2	1:A3:181:ILE:HD12	1.98	0.46
1:BN:180:PRO:HB2	1:BN:181:ILE:HD12	1.98	0.46
1:BZ:180:PRO:HB2	1:BZ:181:ILE:HD12	1.98	0.46
1:Ba:149:THR:HB	1:Ba:217:TRP:HD1	1.81	0.46
1:Bi:180:PRO:HB2	1:Bi:181:ILE:HD12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bs:149:THR:HB	1:Bs:217:TRP:HD1	1.81	0.46
1:Bx:180:PRO:HB2	1:Bx:181:ILE:HD12	1.98	0.46
1:Bz:180:PRO:HB2	1:Bz:181:ILE:HD12	1.97	0.46
1:B3:180:PRO:HB2	1:B3:181:ILE:HD12	1.97	0.46
1:J:149:THR:HB	1:J:217:TRP:HD1	1.81	0.46
1:M:149:THR:HB	1:M:217:TRP:HD1	1.81	0.46
1:u:181:ILE:CG1	1:Az:181:ILE:CD1	2.92	0.46
1:0:180:PRO:HB2	1:0:181:ILE:HD12	1.97	0.46
1:AR:180:PRO:HB2	1:AR:181:ILE:HD12	1.97	0.46
1:Ah:180:PRO:HB2	1:Ah:181:ILE:HD12	1.98	0.46
1:Am:180:PRO:HB2	1:Am:181:ILE:HD12	1.97	0.46
1:A0:149:THR:HB	1:A0:217:TRP:HD1	1.81	0.46
1:Bd:149:THR:HB	1:Bd:217:TRP:HD1	1.81	0.46
1:D:149:THR:HB	1:D:217:TRP:HD1	1.81	0.46
1:O:181:ILE:CD1	1:Bn:181:ILE:CG1	2.92	0.46
1:Z:180:PRO:HB2	1:Z:181:ILE:HD12	1.97	0.46
1:j:180:PRO:HB2	1:j:181:ILE:HD12	1.98	0.46
1:m:180:PRO:HB2	1:m:181:ILE:HD12	1.98	0.46
1:y:180:PRO:HB2	1:y:181:ILE:HD12	1.98	0.46
1:5:180:PRO:HB2	1:5:181:ILE:HD12	1.98	0.46
1:AD:180:PRO:HB2	1:AD:181:ILE:HD12	1.98	0.46
1:Az:180:PRO:HB2	1:Az:181:ILE:HD12	1.98	0.46
1:A6:180:PRO:HB2	1:A6:181:ILE:HD12	1.98	0.46
1:BU:149:THR:HB	1:BU:217:TRP:HD1	1.81	0.46
1:Bl:180:PRO:HB2	1:Bl:181:ILE:HD12	1.98	0.46
1:Bo:180:PRO:HB2	1:Bo:181:ILE:HD12	1.98	0.46
1:A:149:THR:HB	1:A:217:TRP:HD1	1.81	0.46
1:N:181:ILE:CG1	1:Bo:181:ILE:CD1	2.92	0.46
1:t:149:THR:HB	1:t:217:TRP:HD1	1.81	0.46
1:AB:149:THR:HB	1:AB:217:TRP:HD1	1.81	0.46
1:AF:180:PRO:HB2	1:AF:181:ILE:HD12	1.97	0.46
1:AT:149:THR:HB	1:AT:217:TRP:HD1	1.81	0.46
1:AU:180:PRO:HB2	1:AU:181:ILE:HD12	1.97	0.46
1:Af:149:THR:HB	1:Af:217:TRP:HD1	1.81	0.46
1:BK:180:PRO:HB2	1:BK:181:ILE:HD12	1.98	0.46
1:U:181:ILE:CD1	1:Bh:181:ILE:CG1	2.92	0.45
1:v:181:ILE:CD1	1:Ay:181:ILE:CG1	2.92	0.45
1:AM:180:PRO:HB2	1:AM:181:ILE:HD12	1.98	0.45
1:Aw:180:PRO:HB2	1:Aw:181:ILE:HD12	1.98	0.45
1:A1:125:TYR:OH	1:BW:125:TYR:OH	2.25	0.45
1:BH:180:PRO:HB2	1:BH:181:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bj:149:THR:HB	1:Bj:217:TRP:HD1	1.81	0.45
1:Bm:125:TYR:OH	1:Br:125:TYR:OH	2.25	0.45
1:B4:180:PRO:HB2	1:B4:181:ILE:HD12	1.98	0.45
1:B:180:PRO:HB2	1:B:181:ILE:HD12	1.97	0.45
1:E:181:ILE:HG12	1:Bf:181:ILE:CD1	2.47	0.45
1:F:181:ILE:CD1	1:Be:181:ILE:HG12	2.47	0.45
1:X:180:PRO:HB2	1:X:181:ILE:HD12	1.98	0.45
1:Y:149:THR:HB	1:Y:217:TRP:HD1	1.81	0.45
1:b:149:THR:HB	1:b:217:TRP:HD1	1.81	0.45
1:s:181:ILE:CD1	1:A2:181:ILE:CG1	2.92	0.45
1:6:149:THR:HB	1:6:217:TRP:HD1	1.81	0.45
1:AS:180:PRO:HB2	1:AS:181:ILE:HD12	1.98	0.45
1:Ac:149:THR:HB	1:Ac:217:TRP:HD1	1.81	0.45
1:Ai:149:THR:HB	1:Ai:217:TRP:HD1	1.81	0.45
1:Ar:149:THR:HB	1:Ar:217:TRP:HD1	1.81	0.45
1:A4:149:THR:HB	1:A4:217:TRP:HD1	1.81	0.45
1:BB:180:PRO:HB2	1:BB:181:ILE:HD12	1.98	0.45
1:T:181:ILE:CG1	1:Bi:181:ILE:CD1	2.92	0.45
1:m:181:ILE:CD1	1:BP:181:ILE:HG12	2.47	0.45
1:y:181:ILE:CD1	1:BD:181:ILE:HG12	2.47	0.45
1:AE:149:THR:HB	1:AE:217:TRP:HD1	1.81	0.45
1:AH:149:THR:HB	1:AH:217:TRP:HD1	1.81	0.45
1:AP:181:ILE:CD1	1:Bw:181:ILE:HG12	2.47	0.45
1:Ad:181:ILE:HG12	1:B1:181:ILE:CD1	2.47	0.45
1:At:180:PRO:HB2	1:At:181:ILE:HD12	1.98	0.45
1:A7:149:THR:HB	1:A7:217:TRP:HD1	1.81	0.45
1:BW:180:PRO:HB2	1:BW:181:ILE:HD12	1.98	0.45
1:Bv:149:THR:HB	1:Bv:217:TRP:HD1	1.81	0.45
1:R:180:PRO:HB2	1:R:181:ILE:HD12	1.98	0.45
1:p:180:PRO:HB2	1:p:181:ILE:HD12	1.98	0.45
1:z:149:THR:HB	1:z:217:TRP:HD1	1.81	0.45
1:BF:149:THR:HB	1:BF:217:TRP:HD1	1.81	0.45
1:BL:149:THR:HB	1:BL:217:TRP:HD1	1.81	0.45
1:BR:149:THR:HB	1:BR:217:TRP:HD1	1.81	0.45
1:C:180:PRO:HB2	1:C:181:ILE:HD12	1.98	0.45
1:e:149:THR:HB	1:e:217:TRP:HD1	1.81	0.45
1:r:181:ILE:CG1	1:A3:181:ILE:CD1	2.92	0.45
1:9:149:THR:HB	1:9:217:TRP:HD1	1.81	0.45
1:AA:180:PRO:HB2	1:AA:181:ILE:HD12	1.98	0.45
1:AN:149:THR:HB	1:AN:217:TRP:HD1	1.81	0.45
1:AQ:167:MET:CE	1:BR:235:ILE:HD13	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Al:149:THR:HB	1:Al:217:TRP:HD1	1.81	0.45
1:An:180:PRO:HB2	1:An:181:ILE:HD12	1.98	0.45
1:Ao:149:THR:HB	1:Ao:217:TRP:HD1	1.81	0.45
1:A7:235:ILE:HD13	1:B2:167:MET:CE	2.40	0.45
1:BC:149:THR:HB	1:BC:217:TRP:HD1	1.81	0.45
1:BO:149:THR:HB	1:BO:217:TRP:HD1	1.81	0.45
1:By:149:THR:HB	1:By:217:TRP:HD1	1.81	0.45
1:S:149:THR:HB	1:S:217:TRP:HD1	1.81	0.45
1:g:180:PRO:HB2	1:g:181:ILE:HD12	1.98	0.45
1:2:180:PRO:HB2	1:2:181:ILE:HD12	1.98	0.45
1:AG:180:PRO:HB2	1:AG:181:ILE:HD12	1.98	0.45
1:AK:149:THR:HB	1:AK:217:TRP:HD1	1.81	0.45
1:AV:180:PRO:HB2	1:AV:181:ILE:HD12	1.98	0.45
1:G:149:THR:HB	1:G:217:TRP:HD1	1.81	0.45
1:V:149:THR:HB	1:V:217:TRP:HD1	1.81	0.45
1:Z:181:ILE:CG1	1:BK:181:ILE:CD1	2.92	0.45
1:a:180:PRO:HB2	1:a:181:ILE:HD12	1.98	0.45
1:d:180:PRO:HB2	1:d:181:ILE:HD12	1.98	0.45
1:2:181:ILE:CD1	1:BA:181:ILE:HG12	2.47	0.45
1:8:181:ILE:CD1	1:Am:181:ILE:CG1	2.92	0.45
1:AJ:180:PRO:HB2	1:AJ:181:ILE:HD12	1.98	0.45
1:AP:180:PRO:HB2	1:AP:181:ILE:HD12	1.98	0.45
1:Ax:149:THR:HB	1:Ax:217:TRP:HD1	1.81	0.45
1:A1:149:THR:HB	1:A1:217:TRP:HD1	1.81	0.45
1:BX:149:THR:HB	1:BX:217:TRP:HD1	1.81	0.45
1:B1:180:PRO:HB2	1:B1:181:ILE:HD12	1.98	0.45
1:B:181:ILE:HG12	1:AY:181:ILE:CD1	2.47	0.45
1:F:180:PRO:HB2	1:F:181:ILE:HD12	1.98	0.45
1:I:181:ILE:CD1	1:Bb:181:ILE:HG12	2.47	0.45
1:g:181:ILE:CD1	1:BV:181:ILE:HG12	2.47	0.45
1:q:149:THR:HB	1:q:217:TRP:HD1	1.81	0.45
1:1:181:ILE:CG1	1:BB:181:ILE:CD1	2.92	0.45
1:AC:181:ILE:CG1	1:Ah:181:ILE:CD1	2.92	0.45
1:AC:181:ILE:HG12	1:Ah:181:ILE:CD1	2.47	0.45
1:AU:181:ILE:HG12	1:Br:181:ILE:CD1	2.47	0.45
1:Bg:149:THR:HB	1:Bg:217:TRP:HD1	1.81	0.45
1:B2:149:THR:HB	1:B2:217:TRP:HD1	1.81	0.45
1:H:181:ILE:CG1	1:Bc:181:ILE:CD1	2.92	0.45
1:K:181:ILE:HG12	1:BZ:181:ILE:CD1	2.47	0.45
1:L:181:ILE:CD1	1:BY:181:ILE:HG12	2.47	0.45
1:h:149:THR:HB	1:h:217:TRP:HD1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:181:ILE:CD1	1:Ag:181:ILE:HG12	2.47	0.45
1:AD:181:ILE:CD1	1:Ag:181:ILE:CG1	2.92	0.45
1:AF:181:ILE:CG1	1:Aw:181:ILE:CD1	2.92	0.45
1:Bf:180:PRO:HB2	1:Bf:181:ILE:HD12	1.98	0.45
1:Bm:149:THR:HB	1:Bm:217:TRP:HD1	1.81	0.45
1:I:181:ILE:CD1	1:Bb:181:ILE:CG1	2.92	0.45
1:f:181:ILE:CG1	1:BW:181:ILE:CD1	2.92	0.45
1:3:149:THR:HB	1:3:217:TRP:HD1	1.81	0.45
1:7:181:ILE:CG1	1:An:181:ILE:CD1	2.92	0.45
1:0:181:ILE:CG1	1:Ak:181:ILE:CD1	2.92	0.45
1:AA:181:ILE:CD1	1:Aj:181:ILE:CG1	2.92	0.45
1:AO:181:ILE:HG12	1:Bx:181:ILE:CD1	2.47	0.45
1:AQ:149:THR:HB	1:AQ:217:TRP:HD1	1.81	0.45
1:Ae:181:ILE:CD1	1:Bz:181:ILE:HG12	2.47	0.45
1:Ao:125:TYR:OH	1:Bl:125:TYR:OH	2.25	0.45
1:B:181:ILE:CG1	1:AY:181:ILE:CD1	2.92	0.44
1:L:181:ILE:CD1	1:BY:181:ILE:CG1	2.92	0.44
1:T:181:ILE:HG12	1:Bi:181:ILE:CD1	2.47	0.44
1:r:181:ILE:HG12	1:A3:181:ILE:CD1	2.47	0.44
1:BE:180:PRO:HB2	1:BE:181:ILE:HD12	1.98	0.44
1:K:181:ILE:CG1	1:BZ:181:ILE:CD1	2.92	0.44
1:m:181:ILE:CD1	1:BP:181:ILE:CG1	2.92	0.44
1:AO:181:ILE:CG1	1:Bx:181:ILE:CD1	2.92	0.44
1:Ae:181:ILE:CD1	1:Bz:181:ILE:CG1	2.92	0.44
1:BQ:180:PRO:HB2	1:BQ:181:ILE:HD12	1.98	0.44
1:L:235:ILE:HD13	1:c:167:MET:HE3	2.00	0.44
1:T:167:MET:HE3	1:X:235:ILE:HD13	2.00	0.44
1:a:235:ILE:HD13	1:As:167:MET:HE3	2.00	0.44
1:r:167:MET:HE3	1:AM:235:ILE:HD13	2.00	0.44
1:y:181:ILE:CD1	1:BD:181:ILE:CG1	2.92	0.44
1:4:181:ILE:HG12	1:A9:181:ILE:CD1	2.47	0.44
1:AG:235:ILE:HD13	1:BG:167:MET:HE3	2.00	0.44
1:AI:167:MET:HE3	1:Bc:235:ILE:HD13	2.00	0.44
1:AO:167:MET:HE3	1:A9:235:ILE:HD13	2.00	0.44
1:Ad:181:ILE:CG1	1:B1:181:ILE:CD1	2.92	0.44
1:A6:125:TYR:OH	1:BL:125:TYR:OH	2.25	0.44
1:B:167:MET:HE3	1:Ah:235:ILE:HD13	2.00	0.44
1:I:235:ILE:HD13	1:BA:167:MET:HE3	2.00	0.44
1:v:181:ILE:CD1	1:Ay:181:ILE:HG12	2.47	0.44
1:AP:181:ILE:CD1	1:Bw:181:ILE:CG1	2.92	0.44
1:AU:181:ILE:CG1	1:Br:181:ILE:CD1	2.92	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BT:235:ILE:HD13	1:Bz:167:MET:HE3	2.00	0.44
1:BV:167:MET:HE3	1:BZ:235:ILE:HD13	2.00	0.44
1:a:181:ILE:CD1	1:BJ:181:ILE:CG1	2.92	0.44
1:i:181:ILE:HG12	1:BT:181:ILE:CD1	2.47	0.44
1:p:181:ILE:CD1	1:A5:181:ILE:HG12	2.47	0.44
1:5:181:ILE:CD1	1:A8:181:ILE:HG12	2.47	0.44
1:AD:235:ILE:HD13	1:AU:167:MET:HE3	2.00	0.44
1:AM:181:ILE:CD1	1:Ap:181:ILE:HG12	2.47	0.44
1:O:181:ILE:CD1	1:Bn:181:ILE:HG12	2.47	0.44
1:R:181:ILE:CD1	1:Bk:181:ILE:HG12	2.47	0.44
1:X:181:ILE:CD1	1:BM:181:ILE:HG12	2.47	0.44
1:F:235:ILE:HD13	1:Ad:167:MET:HE3	2.00	0.44
1:j:181:ILE:CD1	1:BS:181:ILE:HG12	2.47	0.44
1:s:235:ILE:HD13	1:B3:167:MET:HE3	2.00	0.44
1:1:181:ILE:HG13	1:BB:181:ILE:CD1	2.48	0.44
1:AG:181:ILE:CD1	1:Av:181:ILE:CG1	2.92	0.44
1:AS:235:ILE:HD13	1:BS:167:MET:HE3	2.00	0.44
1:Bf:235:ILE:HD13	1:Bw:167:MET:HE3	2.00	0.44
1:C:107:LEU:HD22	1:C:163:ALA:HB2	2.00	0.44
1:U:235:ILE:HD13	1:AR:167:MET:HE3	2.00	0.44
1:f:181:ILE:HG13	1:BW:181:ILE:CD1	2.48	0.44
1:AJ:181:ILE:CD1	1:As:181:ILE:HG12	2.47	0.44
1:AV:107:LEU:HD22	1:AV:163:ALA:HB2	2.00	0.44
1:Aa:167:MET:HE3	1:BK:235:ILE:HD13	2.00	0.44
1:Aw:235:ILE:HD13	1:Bt:167:MET:HE3	2.00	0.44
1:A2:167:MET:HE3	1:BW:235:ILE:HD13	2.00	0.44
1:A8:167:MET:HE3	1:B4:235:ILE:HD13	2.00	0.44
1:BB:235:ILE:HD13	1:Bh:167:MET:HE3	2.00	0.44
1:E:167:MET:HE3	1:Aq:235:ILE:HD13	2.00	0.44
1:O:235:ILE:HD13	1:Ag:167:MET:HE3	2.00	0.44
1:j:107:LEU:HD22	1:j:163:ALA:HB2	2.00	0.44
1:j:235:ILE:HD13	1:AF:167:MET:HE3	2.00	0.44
1:m:107:LEU:HD22	1:m:163:ALA:HB2	2.00	0.44
1:q:125:TYR:OH	1:AM:125:TYR:OH	2.25	0.44
1:v:235:ILE:HD13	1:AC:167:MET:HE3	2.00	0.44
1:y:107:LEU:HD22	1:y:163:ALA:HB2	2.00	0.44
1:5:107:LEU:HD22	1:5:163:ALA:HB2	2.00	0.44
1:AA:235:ILE:HD13	1:Bk:167:MET:HE3	2.00	0.44
1:An:235:ILE:HD13	1:A5:167:MET:HE3	2.00	0.44
1:BJ:167:MET:HE3	1:Bo:235:ILE:HD13	2.00	0.44
1:BN:235:ILE:HD13	1:Be:167:MET:HE3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:167:MET:HE3	1:5:235:ILE:HD13	2.00	0.43
1:d:181:ILE:CD1	1:BG:181:ILE:HG12	2.47	0.43
1:l:181:ILE:HG12	1:BQ:181:ILE:CD1	2.47	0.43
1:u:181:ILE:HG13	1:Az:181:ILE:CD1	2.48	0.43
1:AJ:181:ILE:CD1	1:As:181:ILE:CG1	2.92	0.43
1:AW:149:THR:HB	1:AW:217:TRP:HD1	1.81	0.43
1:Ap:167:MET:HE3	1:Bl:235:ILE:HD13	2.00	0.43
1:Av:167:MET:HE3	1:Az:235:ILE:HD13	2.00	0.43
1:A6:235:ILE:HD13	1:BM:167:MET:HE3	2.00	0.43
1:Bo:107:LEU:HD22	1:Bo:163:ALA:HB2	2.00	0.43
1:N:181:ILE:HG13	1:Bo:181:ILE:CD1	2.48	0.43
1:W:181:ILE:HG13	1:BN:181:ILE:CD1	2.48	0.43
1:7:181:ILE:HG12	1:An:181:ILE:CD1	2.47	0.43
1:0:167:MET:HE3	1:Ae:235:ILE:HD13	2.00	0.43
1:Ab:181:ILE:CD1	1:B3:181:ILE:CG1	2.92	0.43
1:Am:167:MET:HE3	1:Bx:235:ILE:HD13	2.00	0.43
1:Az:107:LEU:HD22	1:Az:163:ALA:HB2	2.00	0.43
1:K:83:PRO:HG3	1:L:79:PHE:CE2	2.54	0.43
1:f:167:MET:HE3	1:Ab:235:ILE:HD13	2.00	0.43
1:x:181:ILE:HG12	1:BE:181:ILE:CD1	2.47	0.43
1:1:167:MET:HE3	1:Bu:235:ILE:HD13	2.00	0.43
1:8:107:LEU:HD22	1:8:163:ALA:HB2	2.00	0.43
1:AL:181:ILE:HG13	1:Aq:181:ILE:CD1	2.48	0.43
1:Bb:83:PRO:HG3	1:Bc:79:PHE:CE2	2.54	0.43
1:Bp:149:THR:HB	1:Bp:217:TRP:HD1	1.81	0.43
1:I:181:ILE:CD1	1:Bb:181:ILE:HG13	2.48	0.43
1:T:83:PRO:HG3	1:U:79:PHE:CE2	2.54	0.43
1:U:181:ILE:CD1	1:Bh:181:ILE:HG12	2.47	0.43
1:W:181:ILE:HG12	1:BN:181:ILE:CD1	2.47	0.43
1:Z:83:PRO:HG3	1:a:79:PHE:CE2	2.54	0.43
1:d:181:ILE:CD1	1:BG:181:ILE:CG1	2.92	0.43
1:r:83:PRO:HG3	1:s:79:PHE:CE2	2.54	0.43
1:2:107:LEU:HD22	1:2:163:ALA:HB2	2.00	0.43
1:2:235:ILE:HD13	1:AX:167:MET:HE3	2.00	0.43
1:AA:181:ILE:CD1	1:Aj:181:ILE:HG12	2.47	0.43
1:AF:83:PRO:HG3	1:AG:79:PHE:CE2	2.54	0.43
1:AF:181:ILE:HG13	1:Aw:181:ILE:CD1	2.48	0.43
1:AI:181:ILE:HG12	1:At:181:ILE:CD1	2.47	0.43
1:AY:235:ILE:HD13	1:Ay:167:MET:HE3	2.00	0.43
1:Ak:107:LEU:HD22	1:Ak:163:ALA:HB2	2.00	0.43
1:Ay:86:LEU:HD23	1:Ay:86:LEU:HA	1.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A5:83:PRO:HG3	1:A6:79:PHE:CE2	2.54	0.43
1:A6:107:LEU:HD22	1:A6:163:ALA:HB2	2.00	0.43
1:Bk:83:PRO:HG3	1:Bl:79:PHE:CE2	2.54	0.43
1:Bl:107:LEU:HD22	1:Bl:163:ALA:HB2	2.00	0.43
1:Bn:167:MET:HE3	1:Br:235:ILE:HD13	2.00	0.43
1:B1:107:LEU:HD22	1:B1:163:ALA:HB2	2.00	0.43
1:E:83:PRO:HG3	1:F:79:PHE:CE2	2.54	0.43
1:H:83:PRO:HG3	1:I:79:PHE:CE2	2.54	0.43
1:K:181:ILE:HG13	1:BZ:181:ILE:CD1	2.48	0.43
1:Q:83:PRO:HG3	1:R:79:PHE:CE2	2.54	0.43
1:V:244:TYR:CE1	1:W:76:ARG:HA	2.54	0.43
1:Z:181:ILE:HG13	1:BK:181:ILE:CD1	2.48	0.43
1:c:83:PRO:HG3	1:d:79:PHE:CE2	2.54	0.43
1:g:235:ILE:HD13	1:Bq:167:MET:HE3	2.00	0.43
1:i:83:PRO:HG3	1:j:79:PHE:CE2	2.54	0.43
1:o:83:PRO:HG3	1:p:79:PHE:CE2	2.54	0.43
1:p:107:LEU:HD22	1:p:163:ALA:HB2	2.00	0.43
1:x:83:PRO:HG3	1:y:79:PHE:CE2	2.54	0.43
1:8:181:ILE:CD1	1:Am:181:ILE:HG12	2.47	0.43
1:0:83:PRO:HG3	1:AA:79:PHE:CE2	2.54	0.43
1:AH:244:TYR:CE1	1:AI:76:ARG:HA	2.54	0.43
1:AI:83:PRO:HG3	1:AJ:79:PHE:CE2	2.54	0.43
1:AK:244:TYR:CE1	1:AL:76:ARG:HA	2.54	0.43
1:AO:83:PRO:HG3	1:AP:79:PHE:CE2	2.54	0.43
1:AP:107:LEU:HD22	1:AP:163:ALA:HB2	2.00	0.43
1:AR:181:ILE:CG1	1:Bu:181:ILE:CD1	2.92	0.43
1:Ad:181:ILE:HG13	1:B1:181:ILE:CD1	2.48	0.43
1:Am:83:PRO:HG3	1:An:79:PHE:CE2	2.54	0.43
1:Aw:107:LEU:HD22	1:Aw:163:ALA:HB2	2.00	0.43
1:BK:107:LEU:HD22	1:BK:163:ALA:HB2	2.00	0.43
1:BY:83:PRO:HG3	1:BZ:79:PHE:CE2	2.54	0.43
1:Be:83:PRO:HG3	1:Bf:79:PHE:CE2	2.54	0.43
1:Bz:83:PRO:HG3	1:B1:79:PHE:CE2	2.54	0.43
1:B4:107:LEU:HD22	1:B4:163:ALA:HB2	2.00	0.43
1:R:107:LEU:HD22	1:R:163:ALA:HB2	2.00	0.43
1:S:244:TYR:CE1	1:T:76:ARG:HA	2.54	0.43
1:b:244:TYR:CE1	1:c:76:ARG:HA	2.54	0.43
1:c:181:ILE:HG12	1:BH:181:ILE:CD1	2.47	0.43
1:f:83:PRO:HG3	1:g:79:PHE:CE2	2.54	0.43
1:g:107:LEU:HD22	1:g:163:ALA:HB2	2.00	0.43
1:l:83:PRO:HG3	1:m:79:PHE:CE2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:244:TYR:CE1	1:r:76:ARG:HA	2.54	0.43
1:s:107:LEU:HD22	1:s:163:ALA:HB2	2.00	0.43
1:s:181:ILE:CD1	1:A2:181:ILE:HG12	2.47	0.43
1:4:83:PRO:HG3	1:5:79:PHE:CE2	2.54	0.43
1:AC:83:PRO:HG3	1:AD:79:PHE:CE2	2.54	0.43
1:AL:181:ILE:HG12	1:Aq:181:ILE:CD1	2.47	0.43
1:AP:181:ILE:CD1	1:Bw:181:ILE:HG13	2.48	0.43
1:AS:107:LEU:HD22	1:AS:163:ALA:HB2	2.00	0.43
1:Ag:83:PRO:HG3	1:Ah:79:PHE:CE2	2.54	0.43
1:Ah:107:LEU:HD22	1:Ah:163:ALA:HB2	2.00	0.43
1:Ay:83:PRO:HG3	1:Az:79:PHE:CE2	2.54	0.43
1:A9:107:LEU:HD22	1:A9:163:ALA:HB2	2.00	0.43
1:BE:107:LEU:HD22	1:BE:163:ALA:HB2	2.00	0.43
1:BU:244:TYR:CE1	1:BV:76:ARG:HA	2.54	0.43
1:Bn:83:PRO:HG3	1:Bo:79:PHE:CE2	2.54	0.43
1:C:235:ILE:HD13	1:Bb:167:MET:HE3	2.00	0.43
1:K:167:MET:HE3	1:AV:235:ILE:HD13	2.00	0.43
1:N:167:MET:HE3	1:AJ:235:ILE:HD13	2.00	0.43
1:P:244:TYR:CE1	1:Q:76:ARG:HA	2.54	0.43
1:R:235:ILE:HD13	1:x:167:MET:HE3	2.00	0.43
1:U:107:LEU:HD22	1:U:163:ALA:HB2	2.00	0.43
1:W:167:MET:HE3	1:B1:235:ILE:HD13	2.00	0.43
1:d:235:ILE:HD13	1:u:167:MET:HE3	2.00	0.43
1:e:244:TYR:CE1	1:f:76:ARG:HA	2.54	0.43
1:l:167:MET:HE3	1:p:235:ILE:HD13	2.00	0.43
1:n:244:TYR:CE1	1:o:76:ARG:HA	2.54	0.43
1:z:244:TYR:CE1	1:1:76:ARG:HA	2.54	0.43
1:1:83:PRO:HG3	1:2:79:PHE:CE2	2.54	0.43
1:3:244:TYR:CE1	1:4:76:ARG:HA	2.54	0.43
1:7:167:MET:HE3	1:BQ:235:ILE:HD13	2.00	0.43
1:0:181:ILE:HG12	1:Ak:181:ILE:CD1	2.47	0.43
1:AL:167:MET:HE3	1:AP:235:ILE:HD13	2.00	0.43
1:Ar:244:TYR:CE1	1:As:76:ARG:HA	2.54	0.43
1:A1:244:TYR:CE1	1:A2:76:ARG:HA	2.54	0.43
1:A0:244:TYR:CE1	1:BA:76:ARG:HA	2.54	0.43
1:BA:83:PRO:HG3	1:BB:79:PHE:CE2	2.54	0.43
1:BC:244:TYR:CE1	1:BD:76:ARG:HA	2.54	0.43
1:BF:244:TYR:CE1	1:BG:76:ARG:HA	2.54	0.43
1:BO:244:TYR:CE1	1:BP:76:ARG:HA	2.54	0.43
1:BQ:107:LEU:HD22	1:BQ:163:ALA:HB2	2.00	0.43
1:BT:107:LEU:HD22	1:BT:163:ALA:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BV:83:PRO:HG3	1:BW:79:PHE:CE2	2.54	0.43
1:Bg:244:TYR:CE1	1:Bh:76:ARG:HA	2.54	0.43
1:Bt:83:PRO:HG3	1:Bu:79:PHE:CE2	2.54	0.43
1:h:244:TYR:CE1	1:i:76:ARG:HA	2.54	0.43
1:AD:107:LEU:HD22	1:AD:163:ALA:HB2	2.00	0.43
1:AS:181:ILE:CD1	1:Bt:181:ILE:CG1	2.92	0.43
1:AW:244:TYR:CE1	1:AX:76:ARG:HA	2.54	0.43
1:Aa:83:PRO:HG3	1:Ab:79:PHE:CE2	2.54	0.43
1:Aa:181:ILE:CG1	1:B4:181:ILE:CD1	2.92	0.43
1:Aj:167:MET:HE3	1:BE:235:ILE:HD13	2.00	0.43
1:Bw:83:PRO:HG3	1:Bx:79:PHE:CE2	2.54	0.43
1:Q:86:LEU:HD23	1:Q:86:LEU:HA	1.90	0.43
1:o:86:LEU:HD23	1:o:86:LEU:HA	1.90	0.43
1:4:167:MET:HE3	1:8:235:ILE:HD13	2.00	0.43
1:0:86:LEU:HD23	1:0:86:LEU:HA	1.89	0.43
1:AA:107:LEU:HD22	1:AA:163:ALA:HB2	2.00	0.43
1:Ac:244:TYR:CE1	1:Ad:76:ARG:HA	2.54	0.43
1:Ad:83:PRO:HG3	1:Ae:79:PHE:CE2	2.54	0.43
1:BD:83:PRO:HG3	1:BE:79:PHE:CE2	2.54	0.43
1:BL:244:TYR:CE1	1:BM:76:ARG:HA	2.54	0.43
1:BP:83:PRO:HG3	1:BQ:79:PHE:CE2	2.54	0.43
1:Bh:83:PRO:HG3	1:Bi:79:PHE:CE2	2.54	0.43
1:Bn:86:LEU:HD23	1:Bn:86:LEU:HA	1.89	0.43
1:Bp:244:TYR:CE1	1:Bq:76:ARG:HA	2.54	0.43
1:Bv:244:TYR:CE1	1:Bw:76:ARG:HA	2.54	0.43
1:B:83:PRO:HG3	1:C:79:PHE:CE2	2.54	0.43
1:G:244:TYR:CE1	1:H:76:ARG:HA	2.54	0.43
1:H:181:ILE:HG12	1:Bc:181:ILE:CD1	2.47	0.43
1:I:107:LEU:HD22	1:I:163:ALA:HB2	2.00	0.43
1:L:107:LEU:HD22	1:L:163:ALA:HB2	2.00	0.43
1:i:167:MET:HE3	1:Ak:235:ILE:HD13	2.00	0.43
1:m:181:ILE:CD1	1:BP:181:ILE:HG13	2.48	0.43
1:o:181:ILE:HG13	1:A6:181:ILE:CD1	2.48	0.43
1:u:83:PRO:HG3	1:v:79:PHE:CE2	2.54	0.43
1:1:181:ILE:HG12	1:BB:181:ILE:CD1	2.47	0.43
1:7:83:PRO:HG3	1:8:79:PHE:CE2	2.54	0.43
1:AX:83:PRO:HG3	1:AY:79:PHE:CE2	2.54	0.43
1:Ae:107:LEU:HD22	1:Ae:163:ALA:HB2	2.00	0.43
1:Ai:244:TYR:CE1	1:Aj:76:ARG:HA	2.54	0.43
1:An:107:LEU:HD22	1:An:163:ALA:HB2	2.00	0.43
1:Ao:244:TYR:CE1	1:Ap:76:ARG:HA	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:As:83:PRO:HG3	1:At:79:PHE:CE2	2.54	0.43
1:A2:83:PRO:HG3	1:A3:79:PHE:CE2	2.54	0.43
1:BW:107:LEU:HD22	1:BW:163:ALA:HB2	2.00	0.43
1:Bc:107:LEU:HD22	1:Bc:163:ALA:HB2	2.00	0.43
1:Bq:83:PRO:HG3	1:Br:79:PHE:CE2	2.54	0.43
1:B:181:ILE:HG13	1:AY:181:ILE:CD1	2.48	0.42
1:F:157:SER:HA	1:F:211:ARG:HE	1.84	0.42
1:L:157:SER:HA	1:L:211:ARG:HE	1.84	0.42
1:N:83:PRO:HG3	1:O:79:PHE:CE2	2.54	0.42
1:Q:167:MET:HE3	1:A3:235:ILE:HD13	2.00	0.42
1:j:157:SER:HA	1:j:211:ARG:HE	1.84	0.42
1:5:157:SER:HA	1:5:211:ARG:HE	1.84	0.42
1:6:244:TYR:CE1	1:7:76:ARG:HA	2.54	0.42
1:9:125:TYR:OH	1:Ae:125:TYR:OH	2.26	0.42
1:AN:244:TYR:CE1	1:AO:76:ARG:HA	2.54	0.42
1:AU:83:PRO:HG3	1:AV:79:PHE:CE2	2.54	0.42
1:Ab:181:ILE:CD1	1:B3:181:ILE:HG13	2.48	0.42
1:Aj:83:PRO:HG3	1:Ak:79:PHE:CE2	2.54	0.42
1:At:107:LEU:HD22	1:At:163:ALA:HB2	2.00	0.42
1:A7:244:TYR:CE1	1:A8:76:ARG:HA	2.54	0.42
1:BB:107:LEU:HD22	1:BB:163:ALA:HB2	2.00	0.42
1:BD:167:MET:HE3	1:BH:235:ILE:HD13	2.00	0.42
1:BG:83:PRO:HG3	1:BH:79:PHE:CE2	2.54	0.42
1:BH:107:LEU:HD22	1:BH:163:ALA:HB2	2.00	0.42
1:BN:107:LEU:HD22	1:BN:163:ALA:HB2	2.00	0.42
1:BR:244:TYR:CE1	1:BS:76:ARG:HA	2.54	0.42
1:BS:83:PRO:HG3	1:BT:79:PHE:CE2	2.54	0.42
1:Bc:157:SER:HA	1:Bc:211:ARG:HE	1.84	0.42
1:Bf:157:SER:HA	1:Bf:211:ARG:HE	1.84	0.42
1:Bx:107:LEU:HD22	1:Bx:163:ALA:HB2	2.00	0.42
1:A:244:TYR:CE1	1:B:76:ARG:HA	2.54	0.42
1:E:181:ILE:HG13	1:Bf:181:ILE:CD1	2.48	0.42
1:F:107:LEU:HD22	1:F:163:ALA:HB2	2.00	0.42
1:I:157:SER:HA	1:I:211:ARG:HE	1.84	0.42
1:Q:181:ILE:HG13	1:Bl:181:ILE:CD1	2.48	0.42
1:U:157:SER:HA	1:U:211:ARG:HE	1.84	0.42
1:a:181:ILE:CD1	1:BJ:181:ILE:HG13	2.48	0.42
1:d:107:LEU:HD22	1:d:163:ALA:HB2	2.00	0.42
1:f:181:ILE:HG12	1:BW:181:ILE:CD1	2.47	0.42
1:g:181:ILE:CD1	1:BV:181:ILE:HG13	2.48	0.42
1:s:157:SER:HA	1:s:211:ARG:HE	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:244:TYR:CE1	1:u:76:ARG:HA	2.54	0.42
1:y:157:SER:HA	1:y:211:ARG:HE	1.84	0.42
1:y:181:ILE:CD1	1:BD:181:ILE:HG13	2.48	0.42
1:y:235:ILE:HD13	1:BY:167:MET:HE3	2.00	0.42
1:AR:83:PRO:HG3	1:AS:79:PHE:CE2	2.54	0.42
1:AR:181:ILE:HG13	1:Bu:181:ILE:CD1	2.48	0.42
1:AT:244:TYR:CE1	1:AU:76:ARG:HA	2.54	0.42
1:AY:107:LEU:HD22	1:AY:163:ALA:HB2	2.00	0.42
1:At:157:SER:HA	1:At:211:ARG:HE	1.84	0.42
1:A8:83:PRO:HG3	1:A9:79:PHE:CE2	2.54	0.42
1:BX:244:TYR:CE1	1:BY:76:ARG:HA	2.54	0.42
1:BZ:107:LEU:HD22	1:BZ:163:ALA:HB2	2.00	0.42
1:BZ:157:SER:HA	1:BZ:211:ARG:HE	1.84	0.42
1:Bf:107:LEU:HD22	1:Bf:163:ALA:HB2	2.00	0.42
1:Br:107:LEU:HD22	1:Br:163:ALA:HB2	2.00	0.42
1:By:244:TYR:CE1	1:Bz:76:ARG:HA	2.54	0.42
1:B3:83:PRO:HG3	1:B4:79:PHE:CE2	2.54	0.42
1:M:244:TYR:CE1	1:N:76:ARG:HA	2.54	0.42
1:O:125:TYR:OH	1:Af:125:TYR:OH	2.25	0.42
1:d:157:SER:HA	1:d:211:ARG:HE	1.85	0.42
1:o:167:MET:HE3	1:Bi:235:ILE:HD13	2.00	0.42
1:2:181:ILE:CD1	1:BA:181:ILE:HG13	2.48	0.42
1:AG:181:ILE:CD1	1:Av:181:ILE:HG13	2.48	0.42
1:AJ:107:LEU:HD22	1:AJ:163:ALA:HB2	2.00	0.42
1:AJ:157:SER:HA	1:AJ:211:ARG:HE	1.85	0.42
1:AM:107:LEU:HD22	1:AM:163:ALA:HB2	2.00	0.42
1:AP:157:SER:HA	1:AP:211:ARG:HE	1.84	0.42
1:AU:181:ILE:HG13	1:Br:181:ILE:CD1	2.48	0.42
1:Aq:107:LEU:HD22	1:Aq:163:ALA:HB2	2.00	0.42
1:At:235:ILE:HD13	1:BP:167:MET:HE3	2.00	0.42
1:Ax:244:TYR:CE1	1:Ay:76:ARG:HA	2.54	0.42
1:A3:107:LEU:HD22	1:A3:163:ALA:HB2	2.00	0.42
1:BH:157:SER:HA	1:BH:211:ARG:HE	1.84	0.42
1:Bj:244:TYR:CE1	1:Bk:76:ARG:HA	2.54	0.42
1:Bm:244:TYR:CE1	1:Bn:76:ARG:HA	2.54	0.42
1:Bs:244:TYR:CE1	1:Bt:76:ARG:HA	2.54	0.42
1:Bu:107:LEU:HD22	1:Bu:163:ALA:HB2	2.00	0.42
1:B1:157:SER:HA	1:B1:211:ARG:HE	1.84	0.42
1:B2:244:TYR:CE1	1:B3:76:ARG:HA	2.54	0.42
1:A:125:TYR:OH	1:Ah:125:TYR:OH	2.25	0.42
1:D:244:TYR:CE1	1:E:76:ARG:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:181:ILE:CD1	1:Be:181:ILE:HG13	2.48	0.42
1:H:167:MET:HE3	1:m:235:ILE:HD13	2.00	0.42
1:O:205:LEU:HD12	1:O:206:PRO:HD2	2.02	0.42
1:U:205:LEU:HD12	1:U:206:PRO:HD2	2.02	0.42
1:X:107:LEU:HD22	1:X:163:ALA:HB2	2.00	0.42
1:a:107:LEU:HD22	1:a:163:ALA:HB2	2.00	0.42
1:m:157:SER:HA	1:m:211:ARG:HE	1.84	0.42
1:v:205:LEU:HD12	1:v:206:PRO:HD2	2.02	0.42
1:8:157:SER:HA	1:8:211:ARG:HE	1.84	0.42
1:8:205:LEU:HD12	1:8:206:PRO:HD2	2.02	0.42
1:AM:181:ILE:CD1	1:Ap:181:ILE:HG13	2.48	0.42
1:AQ:244:TYR:CE1	1:AR:76:ARG:HA	2.54	0.42
1:AV:157:SER:HA	1:AV:211:ARG:HE	1.84	0.42
1:AZ:244:TYR:CE1	1:Aa:76:ARG:HA	2.54	0.42
1:Af:244:TYR:CE1	1:Ag:76:ARG:HA	2.54	0.42
1:Ak:157:SER:HA	1:Ak:211:ARG:HE	1.84	0.42
1:Ak:205:LEU:HD12	1:Ak:206:PRO:HD2	2.02	0.42
1:Am:86:LEU:HD23	1:Am:86:LEU:HA	1.89	0.42
1:Ap:83:PRO:HG3	1:Aq:79:PHE:CE2	2.54	0.42
1:A4:244:TYR:CE1	1:A5:76:ARG:HA	2.54	0.42
1:BI:235:ILE:HD13	1:Bm:167:MET:CE	2.40	0.42
1:Bi:107:LEU:HD22	1:Bi:163:ALA:HB2	2.00	0.42
1:Bi:157:SER:HA	1:Bi:211:ARG:HE	1.85	0.42
1:C:157:SER:HA	1:C:211:ARG:HE	1.84	0.42
1:C:181:ILE:CD1	1:AX:181:ILE:HG12	2.47	0.42
1:s:205:LEU:HD12	1:s:206:PRO:HD2	2.02	0.42
1:AB:244:TYR:CE1	1:AC:76:ARG:HA	2.54	0.42
1:AE:244:TYR:CE1	1:AF:76:ARG:HA	2.54	0.42
1:AG:107:LEU:HD22	1:AG:163:ALA:HB2	2.00	0.42
1:AS:157:SER:HA	1:AS:211:ARG:HE	1.84	0.42
1:AV:181:ILE:CD1	1:Bq:181:ILE:HG12	2.47	0.42
1:AY:157:SER:HA	1:AY:211:ARG:HE	1.84	0.42
1:Ab:107:LEU:HD22	1:Ab:163:ALA:HB2	2.00	0.42
1:Ab:205:LEU:HD12	1:Ab:206:PRO:HD2	2.02	0.42
1:Ae:205:LEU:HD12	1:Ae:206:PRO:HD2	2.02	0.42
1:A3:157:SER:HA	1:A3:211:ARG:HE	1.85	0.42
1:A6:205:LEU:HD12	1:A6:206:PRO:HD2	2.02	0.42
1:BM:83:PRO:HG3	1:BN:79:PHE:CE2	2.54	0.42
1:BN:205:LEU:HD12	1:BN:206:PRO:HD2	2.02	0.42
1:BT:157:SER:HA	1:BT:211:ARG:HE	1.84	0.42
1:BW:157:SER:HA	1:BW:211:ARG:HE	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Bl:205:LEU:HD12	1:Bl:206:PRO:HD2	2.02	0.42
1:Bu:205:LEU:HD12	1:Bu:206:PRO:HD2	2.02	0.42
1:Bx:205:LEU:HD12	1:Bx:206:PRO:HD2	2.02	0.42
1:B4:157:SER:HA	1:B4:211:ARG:HE	1.84	0.42
1:U:192:PRO:HG2	1:U:195:ARG:HG3	2.02	0.42
1:X:181:ILE:CD1	1:BM:181:ILE:HG13	2.48	0.42
1:Y:244:TYR:CE1	1:Z:76:ARG:HA	2.54	0.42
1:Z:181:ILE:HG12	1:BK:181:ILE:CD1	2.47	0.42
1:c:181:ILE:HG13	1:BH:181:ILE:CD1	2.48	0.42
1:j:205:LEU:HD12	1:j:206:PRO:HD2	2.02	0.42
1:s:192:PRO:HG2	1:s:195:ARG:HG3	2.02	0.42
1:5:205:LEU:HD12	1:5:206:PRO:HD2	2.02	0.42
1:9:244:TYR:CE1	1:0:76:ARG:HA	2.54	0.42
1:AI:181:ILE:HG13	1:At:181:ILE:CD1	2.48	0.42
1:Ab:157:SER:HA	1:Ab:211:ARG:HE	1.84	0.42
1:Al:244:TYR:CE1	1:Am:76:ARG:HA	2.54	0.42
1:Aq:205:LEU:HD12	1:Aq:206:PRO:HD2	2.02	0.42
1:At:205:LEU:HD12	1:At:206:PRO:HD2	2.02	0.42
1:A9:157:SER:HA	1:A9:211:ARG:HE	1.84	0.42
1:BB:157:SER:HA	1:BB:211:ARG:HE	1.84	0.42
1:BI:244:TYR:CE1	1:BJ:76:ARG:HA	2.54	0.42
1:Bd:244:TYR:CE1	1:Be:76:ARG:HA	2.54	0.42
1:Bo:205:LEU:HD12	1:Bo:206:PRO:HD2	2.02	0.42
1:Br:157:SER:HA	1:Br:211:ARG:HE	1.84	0.42
1:W:83:PRO:HG3	1:X:79:PHE:CE2	2.54	0.42
1:X:181:ILE:CD1	1:BM:181:ILE:CG1	2.92	0.42
1:k:244:TYR:CE1	1:l:76:ARG:HA	2.54	0.42
1:AD:125:TYR:OH	1:AT:125:TYR:OH	2.25	0.42
1:AJ:205:LEU:HD12	1:AJ:206:PRO:HD2	2.02	0.42
1:AL:83:PRO:HG3	1:AM:79:PHE:CE2	2.54	0.42
1:AM:181:ILE:CD1	1:Ap:181:ILE:CG1	2.92	0.42
1:Ae:157:SER:HA	1:Ae:211:ARG:HE	1.84	0.42
1:Au:244:TYR:CE1	1:Av:76:ARG:HA	2.54	0.42
1:Az:205:LEU:HD12	1:Az:206:PRO:HD2	2.02	0.42
1:A6:192:PRO:HG2	1:A6:195:ARG:HG3	2.02	0.42
1:BB:205:LEU:HD12	1:BB:206:PRO:HD2	2.02	0.42
1:BH:205:LEU:HD12	1:BH:206:PRO:HD2	2.02	0.42
1:Bl:192:PRO:HG2	1:Bl:195:ARG:HG3	2.02	0.42
1:Bx:157:SER:HA	1:Bx:211:ARG:HE	1.84	0.42
1:B4:205:LEU:HD12	1:B4:206:PRO:HD2	2.02	0.42
1:a:181:ILE:CD1	1:BJ:181:ILE:HG12	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:205:LEU:HD12	1:d:206:PRO:HD2	2.02	0.42
1:f:86:LEU:HD23	1:f:86:LEU:HA	1.90	0.42
1:l:181:ILE:HG13	1:BQ:181:ILE:CD1	2.48	0.42
1:u:181:ILE:HG12	1:Az:181:ILE:CD1	2.47	0.42
1:w:244:TYR:CE1	1:x:76:ARG:HA	2.54	0.42
1:x:181:ILE:HG13	1:BE:181:ILE:CD1	2.48	0.42
1:y:205:LEU:HD12	1:y:206:PRO:HD2	2.02	0.42
1:AA:181:ILE:CD1	1:Aj:181:ILE:HG13	2.48	0.42
1:AM:157:SER:HA	1:AM:211:ARG:HE	1.85	0.42
1:AS:205:LEU:HD12	1:AS:206:PRO:HD2	2.02	0.42
1:AV:205:LEU:HD12	1:AV:206:PRO:HD2	2.02	0.42
1:AY:192:PRO:HG2	1:AY:195:ARG:HG3	2.02	0.42
1:Aw:157:SER:HA	1:Aw:211:ARG:HE	1.84	0.42
1:A9:192:PRO:HG2	1:A9:195:ARG:HG3	2.02	0.42
1:BJ:83:PRO:HG3	1:BK:79:PHE:CE2	2.54	0.42
1:BK:157:SER:HA	1:BK:211:ARG:HE	1.84	0.42
1:BT:192:PRO:HG2	1:BT:195:ARG:HG3	2.02	0.42
1:BW:205:LEU:HD12	1:BW:206:PRO:HD2	2.02	0.42
1:Bu:157:SER:HA	1:Bu:211:ARG:HE	1.84	0.42
1:C:205:LEU:HD12	1:C:206:PRO:HD2	2.02	0.42
1:I:205:LEU:HD12	1:I:206:PRO:HD2	2.02	0.42
1:N:181:ILE:HG12	1:Bo:181:ILE:CD1	2.47	0.42
1:X:157:SER:HA	1:X:211:ARG:HE	1.85	0.42
1:m:205:LEU:HD12	1:m:206:PRO:HD2	2.02	0.42
1:o:181:ILE:HG12	1:A6:181:ILE:CD1	2.47	0.42
1:5:181:ILE:CD1	1:A8:181:ILE:CG1	2.92	0.42
1:7:181:ILE:HG13	1:An:181:ILE:CD1	2.48	0.42
1:AF:181:ILE:HG12	1:Aw:181:ILE:CD1	2.47	0.42
1:Ah:157:SER:HA	1:Ah:211:ARG:HE	1.84	0.42
1:Br:192:PRO:HG2	1:Br:195:ARG:HG3	2.02	0.42
1:F:192:PRO:HG2	1:F:195:ARG:HG3	2.02	0.42
1:F:205:LEU:HD12	1:F:206:PRO:HD2	2.02	0.42
1:R:205:LEU:HD12	1:R:206:PRO:HD2	2.02	0.42
1:5:181:ILE:CD1	1:A8:181:ILE:HG13	2.48	0.42
1:AD:157:SER:HA	1:AD:211:ARG:HE	1.84	0.42
1:Ae:192:PRO:HG2	1:Ae:195:ARG:HG3	2.02	0.42
1:Av:83:PRO:HG3	1:Aw:79:PHE:CE2	2.54	0.42
1:Aw:192:PRO:HG2	1:Aw:195:ARG:HG3	2.02	0.42
1:A6:157:SER:HA	1:A6:211:ARG:HE	1.85	0.42
1:BE:157:SER:HA	1:BE:211:ARG:HE	1.84	0.42
1:BK:192:PRO:HG2	1:BK:195:ARG:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BZ:205:LEU:HD12	1:BZ:206:PRO:HD2	2.02	0.42
1:Bf:192:PRO:HG2	1:Bf:195:ARG:HG3	2.02	0.42
1:Bf:205:LEU:HD12	1:Bf:206:PRO:HD2	2.02	0.42
1:Bl:157:SER:HA	1:Bl:211:ARG:HE	1.85	0.42
1:Bx:192:PRO:HG2	1:Bx:195:ARG:HG3	2.02	0.42
1:O:107:LEU:HD22	1:O:163:ALA:HB2	2.00	0.41
1:i:181:ILE:HG13	1:BT:181:ILE:CD1	2.48	0.41
1:p:192:PRO:HG2	1:p:195:ARG:HG3	2.02	0.41
1:p:205:LEU:HD12	1:p:206:PRO:HD2	2.02	0.41
1:v:157:SER:HA	1:v:211:ARG:HE	1.84	0.41
1:2:157:SER:HA	1:2:211:ARG:HE	1.84	0.41
1:AB:244:TYR:O	1:AB:244:TYR:CG	2.73	0.41
1:AG:181:ILE:CD1	1:Av:181:ILE:HG12	2.47	0.41
1:AZ:244:TYR:O	1:AZ:244:TYR:CG	2.73	0.41
1:Af:244:TYR:O	1:Af:244:TYR:CG	2.73	0.41
1:An:157:SER:HA	1:An:211:ARG:HE	1.84	0.41
1:A1:125:TYR:HH	1:BW:125:TYR:HH	1.55	0.41
1:A3:205:LEU:HD12	1:A3:206:PRO:HD2	2.02	0.41
1:BC:244:TYR:O	1:BC:244:TYR:CG	2.73	0.41
1:BO:244:TYR:O	1:BO:244:TYR:CG	2.73	0.41
1:Bs:244:TYR:O	1:Bs:244:TYR:CG	2.73	0.41
1:B1:192:PRO:HG2	1:B1:195:ARG:HG3	2.02	0.41
1:O:157:SER:HA	1:O:211:ARG:HE	1.84	0.41
1:Q:181:ILE:HG12	1:Bl:181:ILE:CD1	2.47	0.41
1:R:192:PRO:HG2	1:R:195:ARG:HG3	2.02	0.41
1:d:192:PRO:HG2	1:d:195:ARG:HG3	2.02	0.41
1:g:157:SER:HA	1:g:211:ARG:HE	1.84	0.41
1:g:192:PRO:HG2	1:g:195:ARG:HG3	2.02	0.41
1:j:181:ILE:CD1	1:BS:181:ILE:CG1	2.92	0.41
1:j:181:ILE:CD1	1:BS:181:ILE:HG13	2.48	0.41
1:j:192:PRO:HG2	1:j:195:ARG:HG3	2.02	0.41
1:m:192:PRO:HG2	1:m:195:ARG:HG3	2.02	0.41
1:y:192:PRO:HG2	1:y:195:ARG:HG3	2.02	0.41
1:2:192:PRO:HG2	1:2:195:ARG:HG3	2.02	0.41
1:5:192:PRO:HG2	1:5:195:ARG:HG3	2.02	0.41
1:AJ:192:PRO:HG2	1:AJ:195:ARG:HG3	2.02	0.41
1:AP:192:PRO:HG2	1:AP:195:ARG:HG3	2.02	0.41
1:Ac:179:GLY:HA2	1:Ac:180:PRO:HD3	1.93	0.41
1:Ak:192:PRO:HG2	1:Ak:195:ARG:HG3	2.02	0.41
1:BQ:157:SER:HA	1:BQ:211:ARG:HE	1.84	0.41
1:Bi:205:LEU:HD12	1:Bi:206:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:192:PRO:HG2	1:I:195:ARG:HG3	2.02	0.41
1:v:107:LEU:HD22	1:v:163:ALA:HB2	2.00	0.41
1:4:181:ILE:HG13	1:A9:181:ILE:CD1	2.48	0.41
1:8:192:PRO:HG2	1:8:195:ARG:HG3	2.02	0.41
1:AA:157:SER:HA	1:AA:211:ARG:HE	1.84	0.41
1:AS:192:PRO:HG2	1:AS:195:ARG:HG3	2.02	0.41
1:A0:244:TYR:O	1:A0:244:TYR:CG	2.73	0.41
1:Bf:90:MET:HG2	1:Bv:90:MET:HG2	2.03	0.41
1:Bv:179:GLY:HA2	1:Bv:180:PRO:HD3	1.93	0.41
1:B4:192:PRO:HG2	1:B4:195:ARG:HG3	2.02	0.41
1:A:167:MET:CE	1:Ba:235:ILE:HD13	2.40	0.41
1:F:90:MET:HG2	1:Ac:90:MET:HG2	2.03	0.41
1:I:90:MET:HG2	1:A0:90:MET:HG2	2.03	0.41
1:O:181:ILE:CD1	1:Bn:181:ILE:HG13	2.48	0.41
1:a:205:LEU:HD12	1:a:206:PRO:HD2	2.02	0.41
1:e:244:TYR:O	1:e:244:TYR:CG	2.73	0.41
1:v:181:ILE:CD1	1:Ay:181:ILE:HG13	2.48	0.41
1:z:244:TYR:O	1:z:244:TYR:CG	2.73	0.41
1:1:86:LEU:HD23	1:1:86:LEU:HA	1.90	0.41
1:AN:244:TYR:O	1:AN:244:TYR:CG	2.73	0.41
1:AO:181:ILE:HG13	1:Bx:181:ILE:CD1	2.48	0.41
1:AZ:179:GLY:HA2	1:AZ:180:PRO:HD3	1.93	0.41
1:Aa:181:ILE:HG12	1:B4:181:ILE:CD1	2.47	0.41
1:BE:192:PRO:HG2	1:BE:195:ARG:HG3	2.02	0.41
1:BQ:192:PRO:HG2	1:BQ:195:ARG:HG3	2.02	0.41
1:BU:90:MET:HG2	1:BZ:90:MET:HG2	2.03	0.41
1:BU:244:TYR:O	1:BU:244:TYR:CG	2.73	0.41
1:BZ:192:PRO:HG2	1:BZ:195:ARG:HG3	2.02	0.41
1:Ba:244:TYR:CE1	1:Bb:76:ARG:HA	2.54	0.41
1:Bd:179:GLY:HA2	1:Bd:180:PRO:HD3	1.93	0.41
1:Bg:179:GLY:HA2	1:Bg:180:PRO:HD3	1.93	0.41
1:B1:205:LEU:HD12	1:B1:206:PRO:HD2	2.02	0.41
1:C:90:MET:HG2	1:Ba:90:MET:HG2	2.03	0.41
1:J:244:TYR:CE1	1:K:76:ARG:HA	2.54	0.41
1:M:90:MET:HG2	1:AJ:90:MET:HG2	2.03	0.41
1:T:181:ILE:HG13	1:Bi:181:ILE:CD1	2.48	0.41
1:p:157:SER:HA	1:p:211:ARG:HE	1.84	0.41
1:r:181:ILE:HG13	1:A3:181:ILE:CD1	2.48	0.41
1:AD:192:PRO:HG2	1:AD:195:ARG:HG3	2.02	0.41
1:AP:205:LEU:HD12	1:AP:206:PRO:HD2	2.02	0.41
1:AR:181:ILE:HG12	1:Bu:181:ILE:CD1	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ae:181:ILE:CD1	1:Bz:181:ILE:HG13	2.48	0.41
1:Ah:192:PRO:HG2	1:Ah:195:ARG:HG3	2.02	0.41
1:A3:192:PRO:HG2	1:A3:195:ARG:HG3	2.02	0.41
1:A4:244:TYR:O	1:A4:244:TYR:CG	2.74	0.41
1:Bh:86:LEU:HD23	1:Bh:86:LEU:HA	1.89	0.41
1:Bj:244:TYR:O	1:Bj:244:TYR:CG	2.74	0.41
1:Br:205:LEU:HD12	1:Br:206:PRO:HD2	2.02	0.41
1:By:244:TYR:O	1:By:244:TYR:CG	2.73	0.41
1:G:90:MET:HG2	1:m:90:MET:HG2	2.03	0.41
1:J:90:MET:HG2	1:AV:90:MET:HG2	2.03	0.41
1:R:90:MET:HG2	1:w:90:MET:HG2	2.03	0.41
1:d:90:MET:HG2	1:t:90:MET:HG2	2.03	0.41
1:h:90:MET:HG2	1:Ak:90:MET:HG2	2.03	0.41
1:y:90:MET:HG2	1:BX:90:MET:HG2	2.03	0.41
1:AG:205:LEU:HD12	1:AG:206:PRO:HD2	2.02	0.41
1:AQ:244:TYR:O	1:AQ:244:TYR:CG	2.73	0.41
1:AS:181:ILE:CD1	1:Bt:181:ILE:HG12	2.47	0.41
1:AS:181:ILE:CD1	1:Bt:181:ILE:HG13	2.48	0.41
1:AY:205:LEU:HD12	1:AY:206:PRO:HD2	2.02	0.41
1:Ah:205:LEU:HD12	1:Ah:206:PRO:HD2	2.02	0.41
1:Aw:125:TYR:OH	1:Bs:125:TYR:OH	2.25	0.41
1:A1:90:MET:HG2	1:BW:90:MET:HG2	2.03	0.41
1:BR:179:GLY:HA2	1:BR:180:PRO:HD3	1.93	0.41
1:Bi:192:PRO:HG2	1:Bi:195:ARG:HG3	2.02	0.41
1:Bw:86:LEU:HD23	1:Bw:86:LEU:HA	1.90	0.41
1:B2:244:TYR:O	1:B2:244:TYR:CG	2.73	0.41
1:R:157:SER:HA	1:R:211:ARG:HE	1.84	0.41
1:X:192:PRO:HG2	1:X:195:ARG:HG3	2.02	0.41
1:g:90:MET:HG2	1:Bp:90:MET:HG2	2.03	0.41
1:k:90:MET:HG2	1:p:90:MET:HG2	2.03	0.41
1:3:90:MET:HG2	1:8:90:MET:HG2	2.03	0.41
1:AC:181:ILE:HG13	1:Ah:181:ILE:CD1	2.48	0.41
1:AD:205:LEU:HD12	1:AD:206:PRO:HD2	2.02	0.41
1:AH:90:MET:HG2	1:Bc:90:MET:HG2	2.03	0.41
1:AM:192:PRO:HG2	1:AM:195:ARG:HG3	2.02	0.41
1:Ab:181:ILE:CD1	1:B3:181:ILE:HG12	2.47	0.41
1:Aw:90:MET:HG2	1:Bs:90:MET:HG2	2.03	0.41
1:Aw:205:LEU:HD12	1:Aw:206:PRO:HD2	2.02	0.41
1:Az:157:SER:HA	1:Az:211:ARG:HE	1.85	0.41
1:A1:179:GLY:HA2	1:A1:180:PRO:HD3	1.93	0.41
1:BB:90:MET:HG2	1:Bg:90:MET:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BK:205:LEU:HD12	1:BK:206:PRO:HD2	2.02	0.41
1:Bs:179:GLY:HA2	1:Bs:180:PRO:HD3	1.93	0.41
1:A:244:TYR:O	1:A:244:TYR:CD2	2.74	0.41
1:D:244:TYR:CD2	1:D:244:TYR:O	2.74	0.41
1:J:235:ILE:HD13	1:AT:167:MET:CE	2.40	0.41
1:L:90:MET:HG2	1:b:90:MET:HG2	2.03	0.41
1:e:244:TYR:O	1:e:244:TYR:CD2	2.74	0.41
1:z:244:TYR:O	1:z:244:TYR:CD2	2.74	0.41
1:2:90:MET:HG2	1:AW:90:MET:HG2	2.03	0.41
1:3:179:GLY:HA2	1:3:180:PRO:HD3	1.93	0.41
1:6:244:TYR:CD2	1:6:244:TYR:O	2.74	0.41
1:AT:244:TYR:O	1:AT:244:TYR:CD2	2.74	0.41
1:AZ:90:MET:HG2	1:BK:90:MET:HG2	2.03	0.41
1:Aa:181:ILE:HG13	1:B4:181:ILE:CD1	2.48	0.41
1:Ab:192:PRO:HG2	1:Ab:195:ARG:HG3	2.02	0.41
1:Ai:244:TYR:CD2	1:Ai:244:TYR:O	2.74	0.41
1:At:192:PRO:HG2	1:At:195:ARG:HG3	2.02	0.41
1:Au:90:MET:HG2	1:Az:90:MET:HG2	2.03	0.41
1:Ax:244:TYR:CD2	1:Ax:244:TYR:O	2.74	0.41
1:Az:192:PRO:HG2	1:Az:195:ARG:HG3	2.02	0.41
1:A1:244:TYR:CD2	1:A1:244:TYR:O	2.74	0.41
1:Bg:244:TYR:CD2	1:Bg:244:TYR:O	2.74	0.41
1:Bo:157:SER:HA	1:Bo:211:ARG:HE	1.85	0.41
1:Bs:244:TYR:O	1:Bs:244:TYR:CD2	2.74	0.41
1:D:179:GLY:HA2	1:D:180:PRO:HD3	1.93	0.41
1:M:244:TYR:O	1:M:244:TYR:CD2	2.74	0.41
1:S:244:TYR:CD2	1:S:244:TYR:O	2.74	0.41
1:Y:244:TYR:CD2	1:Y:244:TYR:O	2.74	0.41
1:g:205:LEU:HD12	1:g:206:PRO:HD2	2.02	0.41
1:q:244:TYR:CD2	1:q:244:TYR:O	2.74	0.41
1:t:244:TYR:CD2	1:t:244:TYR:O	2.74	0.41
1:2:205:LEU:HD12	1:2:206:PRO:HD2	2.02	0.41
1:AA:205:LEU:HD12	1:AA:206:PRO:HD2	2.02	0.41
1:AD:181:ILE:CD1	1:Ag:181:ILE:HG13	2.48	0.41
1:AE:244:TYR:CD2	1:AE:244:TYR:O	2.74	0.41
1:AG:90:MET:HG2	1:BF:90:MET:HG2	2.03	0.41
1:AQ:244:TYR:O	1:AQ:244:TYR:CD2	2.74	0.41
1:AS:90:MET:HG2	1:BR:90:MET:HG2	2.03	0.41
1:AZ:244:TYR:O	1:AZ:244:TYR:CD2	2.74	0.41
1:Ac:244:TYR:CD2	1:Ac:244:TYR:O	2.74	0.41
1:Ad:86:LEU:HD23	1:Ad:86:LEU:HA	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:An:192:PRO:HG2	1:An:195:ARG:HG3	2.02	0.41
1:An:205:LEU:HD12	1:An:206:PRO:HD2	2.02	0.41
1:Ao:244:TYR:O	1:Ao:244:TYR:CG	2.74	0.41
1:Ar:244:TYR:O	1:Ar:244:TYR:CG	2.74	0.41
1:A2:86:LEU:HD23	1:A2:86:LEU:HA	1.89	0.41
1:A4:244:TYR:O	1:A4:244:TYR:CD2	2.74	0.41
1:A7:90:MET:HG2	1:B4:90:MET:HG2	2.03	0.41
1:BB:192:PRO:HG2	1:BB:195:ARG:HG3	2.02	0.41
1:BE:205:LEU:HD12	1:BE:206:PRO:HD2	2.02	0.41
1:BF:244:TYR:O	1:BF:244:TYR:CG	2.74	0.41
1:BH:192:PRO:HG2	1:BH:195:ARG:HG3	2.02	0.41
1:BI:90:MET:HG2	1:Bo:90:MET:HG2	2.03	0.41
1:BI:244:TYR:CD2	1:BI:244:TYR:O	2.74	0.41
1:BI:244:TYR:O	1:BI:244:TYR:CG	2.74	0.41
1:BL:244:TYR:O	1:BL:244:TYR:CG	2.74	0.41
1:BN:157:SER:HA	1:BN:211:ARG:HE	1.84	0.41
1:BQ:205:LEU:HD12	1:BQ:206:PRO:HD2	2.02	0.41
1:BW:192:PRO:HG2	1:BW:195:ARG:HG3	2.02	0.41
1:Bd:244:TYR:CD2	1:Bd:244:TYR:O	2.74	0.41
1:Bj:244:TYR:O	1:Bj:244:TYR:CD2	2.74	0.41
1:Bm:244:TYR:CD2	1:Bm:244:TYR:O	2.74	0.41
1:Bo:192:PRO:HG2	1:Bo:195:ARG:HG3	2.02	0.41
1:Bu:192:PRO:HG2	1:Bu:195:ARG:HG3	2.02	0.41
1:Bv:244:TYR:CD2	1:Bv:244:TYR:O	2.74	0.41
1:B2:244:TYR:O	1:B2:244:TYR:CD2	2.74	0.41
1:G:244:TYR:O	1:G:244:TYR:CD2	2.74	0.41
1:P:244:TYR:CD2	1:P:244:TYR:O	2.74	0.41
1:S:244:TYR:O	1:S:244:TYR:CG	2.74	0.41
1:a:90:MET:HG2	1:Ar:90:MET:HG2	2.03	0.41
1:a:157:SER:HA	1:a:211:ARG:HE	1.85	0.41
1:k:244:TYR:CD2	1:k:244:TYR:O	2.74	0.41
1:n:244:TYR:CD2	1:n:244:TYR:O	2.74	0.41
1:v:192:PRO:HG2	1:v:195:ARG:HG3	2.02	0.41
1:w:244:TYR:CD2	1:w:244:TYR:O	2.74	0.41
1:AA:192:PRO:HG2	1:AA:195:ARG:HG3	2.02	0.41
1:AD:90:MET:HG2	1:AT:90:MET:HG2	2.03	0.41
1:AG:157:SER:HA	1:AG:211:ARG:HE	1.85	0.41
1:Aa:86:LEU:HD23	1:Aa:86:LEU:HA	1.90	0.41
1:Aj:86:LEU:HD23	1:Aj:86:LEU:HA	1.90	0.41
1:Aq:157:SER:HA	1:Aq:211:ARG:HE	1.84	0.41
1:Ar:244:TYR:O	1:Ar:244:TYR:CD2	2.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Au:244:TYR:O	1:Au:244:TYR:CD2	2.74	0.41
1:A7:179:GLY:HA2	1:A7:180:PRO:HD3	1.93	0.41
1:A7:244:TYR:O	1:A7:244:TYR:CG	2.73	0.41
1:A0:244:TYR:O	1:A0:244:TYR:CD2	2.74	0.41
1:BF:244:TYR:O	1:BF:244:TYR:CD2	2.74	0.41
1:BU:244:TYR:O	1:BU:244:TYR:CD2	2.74	0.41
1:BX:244:TYR:O	1:BX:244:TYR:CD2	2.74	0.41
1:Bc:192:PRO:HG2	1:Bc:195:ARG:HG3	2.02	0.41
1:A:90:MET:HG2	1:Ah:90:MET:HG2	2.03	0.40
1:L:192:PRO:HG2	1:L:195:ARG:HG3	2.02	0.40
1:O:192:PRO:HG2	1:O:195:ARG:HG3	2.02	0.40
1:R:181:ILE:CD1	1:Bk:181:ILE:HG13	2.48	0.40
1:h:179:GLY:HA2	1:h:180:PRO:HD3	1.93	0.40
1:q:244:TYR:O	1:q:244:TYR:CG	2.74	0.40
1:AA:90:MET:HG2	1:Bj:90:MET:HG2	2.03	0.40
1:Au:244:TYR:O	1:Au:244:TYR:CG	2.74	0.40
1:BC:244:TYR:O	1:BC:244:TYR:CD2	2.74	0.40
1:BO:244:TYR:O	1:BO:244:TYR:CD2	2.74	0.40
1:BR:244:TYR:O	1:BR:244:TYR:CG	2.73	0.40
1:Bc:205:LEU:HD12	1:Bc:206:PRO:HD2	2.02	0.40
1:Bm:244:TYR:O	1:Bm:244:TYR:CG	2.74	0.40
1:L:205:LEU:HD12	1:L:206:PRO:HD2	2.02	0.40
1:a:192:PRO:HG2	1:a:195:ARG:HG3	2.02	0.40
1:6:244:TYR:O	1:6:244:TYR:CG	2.73	0.40
1:9:90:MET:HG2	1:Ae:90:MET:HG2	2.03	0.40
1:AK:179:GLY:HA2	1:AK:180:PRO:HD3	1.93	0.40
1:AW:244:TYR:CD2	1:AW:244:TYR:O	2.74	0.40
1:Ai:244:TYR:O	1:Ai:244:TYR:CG	2.73	0.40
1:Al:90:MET:HG2	1:Bx:90:MET:HG2	2.03	0.40
1:Ax:244:TYR:O	1:Ax:244:TYR:CG	2.74	0.40
1:BN:192:PRO:HG2	1:BN:195:ARG:HG3	2.02	0.40
1:Bp:244:TYR:CD2	1:Bp:244:TYR:O	2.74	0.40
1:Bt:86:LEU:HD23	1:Bt:86:LEU:HA	1.90	0.40
1:A:244:TYR:O	1:A:244:TYR:CG	2.73	0.40
1:d:181:ILE:CD1	1:BG:181:ILE:HG13	2.48	0.40
1:k:244:TYR:O	1:k:244:TYR:CG	2.73	0.40
1:p:181:ILE:CD1	1:A5:181:ILE:HG13	2.48	0.40
1:w:244:TYR:O	1:w:244:TYR:CG	2.73	0.40
1:9:244:TYR:O	1:9:244:TYR:CD2	2.74	0.40
1:AG:192:PRO:HG2	1:AG:195:ARG:HG3	2.02	0.40
1:AN:244:TYR:O	1:AN:244:TYR:CD2	2.74	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Ai:90:MET:HG2	1:BE:90:MET:HG2	2.03	0.40
1:An:90:MET:HG2	1:A4:90:MET:HG2	2.03	0.40
1:Ao:90:MET:HG2	1:Bl:90:MET:HG2	2.03	0.40
1:Ao:244:TYR:O	1:Ao:244:TYR:CD2	2.74	0.40
1:Bm:90:MET:HG2	1:Br:90:MET:HG2	2.03	0.40
1:Y:90:MET:HG2	1:5:90:MET:HG2	2.03	0.40
1:k:179:GLY:HA2	1:k:180:PRO:HD3	1.93	0.40
1:w:179:GLY:HA2	1:w:180:PRO:HD3	1.93	0.40
1:6:90:MET:HG2	1:BQ:90:MET:HG2	2.03	0.40
1:7:86:LEU:HD23	1:7:86:LEU:HA	1.90	0.40
1:AK:244:TYR:O	1:AK:244:TYR:CD2	2.74	0.40
1:Af:244:TYR:O	1:Af:244:TYR:CD2	2.74	0.40
1:Al:244:TYR:O	1:Al:244:TYR:CD2	2.74	0.40
1:Aq:192:PRO:HG2	1:Aq:195:ARG:HG3	2.02	0.40
1:BL:244:TYR:O	1:BL:244:TYR:CD2	2.74	0.40
1:BN:90:MET:HG2	1:Bd:90:MET:HG2	2.03	0.40
1:By:244:TYR:O	1:By:244:TYR:CD2	2.74	0.40
1:C:192:PRO:HG2	1:C:195:ARG:HG3	2.02	0.40
1:D:90:MET:HG2	1:Aq:90:MET:HG2	2.03	0.40
1:O:90:MET:HG2	1:Af:90:MET:HG2	2.03	0.40
1:P:244:TYR:O	1:P:244:TYR:CG	2.74	0.40
1:V:244:TYR:O	1:V:244:TYR:CD2	2.74	0.40
1:X:205:LEU:HD12	1:X:206:PRO:HD2	2.02	0.40
1:AB:244:TYR:O	1:AB:244:TYR:CD2	2.74	0.40
1:AT:244:TYR:O	1:AT:244:TYR:CG	2.73	0.40
1:AY:90:MET:HG2	1:Ax:90:MET:HG2	2.03	0.40
1:Bp:179:GLY:HA2	1:Bp:180:PRO:HD3	1.93	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	1	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	2	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	3	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	4	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	5	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	6	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	7	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	8	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	9	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	A	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	A0	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	A1	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	A2	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	A3	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	A4	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	A5	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	A6	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	A7	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	A8	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	A9	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	AA	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	AB	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	AC	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	AD	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	AE	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	AF	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	AG	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	AH	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	AI	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	AJ	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	AK	184/194 (95%)	179 (97%)	5 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	AL	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	AM	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	AN	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	AO	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	AP	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	AQ	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	AR	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	AS	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	AT	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	AU	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	AV	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	AW	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	AX	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	AY	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	AZ	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Aa	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Ab	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	Ac	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Ad	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Ae	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	Af	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Ag	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Ah	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	Ai	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Aj	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Ak	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	Al	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Am	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	An	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	Ao	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Ap	192/194 (99%)	188 (98%)	4 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Aq	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	Ar	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	As	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	At	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	Au	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Av	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Aw	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	Ax	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Ay	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Az	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	B	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	B1	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	B2	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	B3	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	B4	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	BA	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	BB	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	BC	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	BD	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	BE	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	BF	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	BG	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	BH	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	BI	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	BJ	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	BK	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	BL	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	BM	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	BN	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	BO	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	BP	192/194 (99%)	188 (98%)	4 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	BQ	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	BR	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	BS	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	BT	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	BU	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	BV	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	BW	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	BX	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	BY	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	BZ	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	Ba	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Bb	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Bc	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	Bd	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Be	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Bf	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	Bg	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Bh	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Bi	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	Bj	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Bk	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Bl	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	Bm	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Bn	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Bo	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	Bp	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Bq	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Br	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	Bs	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Bt	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Bu	186/194 (96%)	181 (97%)	5 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Bv	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Bw	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	Bx	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	By	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Bz	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	C	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	D	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	E	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	F	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	G	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	H	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	I	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	J	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	K	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	L	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	M	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	N	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	O	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	P	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Q	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	R	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	S	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	T	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	U	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	V	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	W	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	X	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	Y	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	Z	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	a	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	b	184/194 (95%)	179 (97%)	5 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	c	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	d	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	e	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	f	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	g	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	h	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	i	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	j	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	k	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	l	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	m	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	n	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	o	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	p	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	q	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	r	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	s	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	t	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	u	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	v	186/194 (96%)	182 (98%)	4 (2%)	0	100	100
1	w	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
1	x	192/194 (99%)	188 (98%)	4 (2%)	0	100	100
1	y	186/194 (96%)	181 (97%)	5 (3%)	0	100	100
1	z	184/194 (95%)	179 (97%)	5 (3%)	0	100	100
All	All	33720/34920 (97%)	32916 (98%)	804 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	167/167 (100%)	167 (100%)	0	100	100
1	1	167/167 (100%)	167 (100%)	0	100	100
1	2	163/167 (98%)	163 (100%)	0	100	100
1	3	161/167 (96%)	161 (100%)	0	100	100
1	4	167/167 (100%)	167 (100%)	0	100	100
1	5	163/167 (98%)	163 (100%)	0	100	100
1	6	161/167 (96%)	161 (100%)	0	100	100
1	7	167/167 (100%)	167 (100%)	0	100	100
1	8	163/167 (98%)	163 (100%)	0	100	100
1	9	161/167 (96%)	161 (100%)	0	100	100
1	A	161/167 (96%)	161 (100%)	0	100	100
1	A0	161/167 (96%)	161 (100%)	0	100	100
1	A1	161/167 (96%)	161 (100%)	0	100	100
1	A2	167/167 (100%)	167 (100%)	0	100	100
1	A3	163/167 (98%)	163 (100%)	0	100	100
1	A4	161/167 (96%)	161 (100%)	0	100	100
1	A5	167/167 (100%)	167 (100%)	0	100	100
1	A6	163/167 (98%)	163 (100%)	0	100	100
1	A7	161/167 (96%)	161 (100%)	0	100	100
1	A8	167/167 (100%)	167 (100%)	0	100	100
1	A9	163/167 (98%)	163 (100%)	0	100	100
1	AA	163/167 (98%)	163 (100%)	0	100	100
1	AB	161/167 (96%)	161 (100%)	0	100	100
1	AC	167/167 (100%)	167 (100%)	0	100	100
1	AD	163/167 (98%)	163 (100%)	0	100	100
1	AE	161/167 (96%)	161 (100%)	0	100	100
1	AF	167/167 (100%)	167 (100%)	0	100	100
1	AG	163/167 (98%)	163 (100%)	0	100	100
1	AH	161/167 (96%)	161 (100%)	0	100	100
1	AI	167/167 (100%)	167 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AJ	163/167 (98%)	163 (100%)	0	100	100
1	AK	161/167 (96%)	161 (100%)	0	100	100
1	AL	167/167 (100%)	167 (100%)	0	100	100
1	AM	163/167 (98%)	163 (100%)	0	100	100
1	AN	161/167 (96%)	161 (100%)	0	100	100
1	AO	167/167 (100%)	167 (100%)	0	100	100
1	AP	163/167 (98%)	163 (100%)	0	100	100
1	AQ	161/167 (96%)	161 (100%)	0	100	100
1	AR	167/167 (100%)	167 (100%)	0	100	100
1	AS	163/167 (98%)	163 (100%)	0	100	100
1	AT	161/167 (96%)	161 (100%)	0	100	100
1	AU	167/167 (100%)	167 (100%)	0	100	100
1	AV	163/167 (98%)	163 (100%)	0	100	100
1	AW	161/167 (96%)	161 (100%)	0	100	100
1	AX	167/167 (100%)	167 (100%)	0	100	100
1	AY	163/167 (98%)	163 (100%)	0	100	100
1	AZ	161/167 (96%)	161 (100%)	0	100	100
1	Aa	167/167 (100%)	167 (100%)	0	100	100
1	Ab	163/167 (98%)	163 (100%)	0	100	100
1	Ac	161/167 (96%)	161 (100%)	0	100	100
1	Ad	167/167 (100%)	167 (100%)	0	100	100
1	Ae	163/167 (98%)	163 (100%)	0	100	100
1	Af	161/167 (96%)	161 (100%)	0	100	100
1	Ag	167/167 (100%)	167 (100%)	0	100	100
1	Ah	163/167 (98%)	163 (100%)	0	100	100
1	Ai	161/167 (96%)	161 (100%)	0	100	100
1	Aj	167/167 (100%)	167 (100%)	0	100	100
1	Ak	163/167 (98%)	163 (100%)	0	100	100
1	Al	161/167 (96%)	161 (100%)	0	100	100
1	Am	167/167 (100%)	167 (100%)	0	100	100
1	An	163/167 (98%)	163 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Ao	161/167 (96%)	161 (100%)	0	100	100
1	Ap	167/167 (100%)	167 (100%)	0	100	100
1	Aq	163/167 (98%)	163 (100%)	0	100	100
1	Ar	161/167 (96%)	161 (100%)	0	100	100
1	As	167/167 (100%)	167 (100%)	0	100	100
1	At	163/167 (98%)	163 (100%)	0	100	100
1	Au	161/167 (96%)	161 (100%)	0	100	100
1	Av	167/167 (100%)	167 (100%)	0	100	100
1	Aw	163/167 (98%)	163 (100%)	0	100	100
1	Ax	161/167 (96%)	161 (100%)	0	100	100
1	Ay	167/167 (100%)	167 (100%)	0	100	100
1	Az	163/167 (98%)	163 (100%)	0	100	100
1	B	167/167 (100%)	167 (100%)	0	100	100
1	B1	163/167 (98%)	163 (100%)	0	100	100
1	B2	161/167 (96%)	161 (100%)	0	100	100
1	B3	167/167 (100%)	167 (100%)	0	100	100
1	B4	163/167 (98%)	163 (100%)	0	100	100
1	BA	167/167 (100%)	167 (100%)	0	100	100
1	BB	163/167 (98%)	163 (100%)	0	100	100
1	BC	161/167 (96%)	161 (100%)	0	100	100
1	BD	167/167 (100%)	167 (100%)	0	100	100
1	BE	163/167 (98%)	163 (100%)	0	100	100
1	BF	161/167 (96%)	161 (100%)	0	100	100
1	BG	167/167 (100%)	167 (100%)	0	100	100
1	BH	163/167 (98%)	163 (100%)	0	100	100
1	BI	161/167 (96%)	161 (100%)	0	100	100
1	BJ	167/167 (100%)	167 (100%)	0	100	100
1	BK	163/167 (98%)	163 (100%)	0	100	100
1	BL	161/167 (96%)	161 (100%)	0	100	100
1	BM	167/167 (100%)	167 (100%)	0	100	100
1	BN	163/167 (98%)	163 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	BO	161/167 (96%)	161 (100%)	0	100	100
1	BP	167/167 (100%)	167 (100%)	0	100	100
1	BQ	163/167 (98%)	163 (100%)	0	100	100
1	BR	161/167 (96%)	161 (100%)	0	100	100
1	BS	167/167 (100%)	167 (100%)	0	100	100
1	BT	163/167 (98%)	163 (100%)	0	100	100
1	BU	161/167 (96%)	161 (100%)	0	100	100
1	BV	167/167 (100%)	167 (100%)	0	100	100
1	BW	163/167 (98%)	163 (100%)	0	100	100
1	BX	161/167 (96%)	161 (100%)	0	100	100
1	BY	167/167 (100%)	167 (100%)	0	100	100
1	BZ	163/167 (98%)	163 (100%)	0	100	100
1	Ba	161/167 (96%)	161 (100%)	0	100	100
1	Bb	167/167 (100%)	167 (100%)	0	100	100
1	Bc	163/167 (98%)	163 (100%)	0	100	100
1	Bd	161/167 (96%)	161 (100%)	0	100	100
1	Be	167/167 (100%)	167 (100%)	0	100	100
1	Bf	163/167 (98%)	163 (100%)	0	100	100
1	Bg	161/167 (96%)	161 (100%)	0	100	100
1	Bh	167/167 (100%)	167 (100%)	0	100	100
1	Bi	163/167 (98%)	163 (100%)	0	100	100
1	Bj	161/167 (96%)	161 (100%)	0	100	100
1	Bk	167/167 (100%)	167 (100%)	0	100	100
1	Bl	163/167 (98%)	163 (100%)	0	100	100
1	Bm	161/167 (96%)	161 (100%)	0	100	100
1	Bn	167/167 (100%)	167 (100%)	0	100	100
1	Bo	163/167 (98%)	163 (100%)	0	100	100
1	Bp	161/167 (96%)	161 (100%)	0	100	100
1	Bq	167/167 (100%)	167 (100%)	0	100	100
1	Br	163/167 (98%)	163 (100%)	0	100	100
1	Bs	161/167 (96%)	161 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Bt	167/167 (100%)	167 (100%)	0	100	100
1	Bu	163/167 (98%)	163 (100%)	0	100	100
1	Bv	161/167 (96%)	161 (100%)	0	100	100
1	Bw	167/167 (100%)	167 (100%)	0	100	100
1	Bx	163/167 (98%)	163 (100%)	0	100	100
1	By	161/167 (96%)	161 (100%)	0	100	100
1	Bz	167/167 (100%)	167 (100%)	0	100	100
1	C	163/167 (98%)	163 (100%)	0	100	100
1	D	161/167 (96%)	161 (100%)	0	100	100
1	E	167/167 (100%)	167 (100%)	0	100	100
1	F	163/167 (98%)	163 (100%)	0	100	100
1	G	161/167 (96%)	161 (100%)	0	100	100
1	H	167/167 (100%)	167 (100%)	0	100	100
1	I	163/167 (98%)	163 (100%)	0	100	100
1	J	161/167 (96%)	161 (100%)	0	100	100
1	K	167/167 (100%)	167 (100%)	0	100	100
1	L	163/167 (98%)	163 (100%)	0	100	100
1	M	161/167 (96%)	161 (100%)	0	100	100
1	N	167/167 (100%)	167 (100%)	0	100	100
1	O	163/167 (98%)	163 (100%)	0	100	100
1	P	161/167 (96%)	161 (100%)	0	100	100
1	Q	167/167 (100%)	167 (100%)	0	100	100
1	R	163/167 (98%)	163 (100%)	0	100	100
1	S	161/167 (96%)	161 (100%)	0	100	100
1	T	167/167 (100%)	167 (100%)	0	100	100
1	U	163/167 (98%)	163 (100%)	0	100	100
1	V	161/167 (96%)	161 (100%)	0	100	100
1	W	167/167 (100%)	167 (100%)	0	100	100
1	X	163/167 (98%)	163 (100%)	0	100	100
1	Y	161/167 (96%)	161 (100%)	0	100	100
1	Z	167/167 (100%)	167 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	a	163/167 (98%)	163 (100%)	0	100	100
1	b	161/167 (96%)	161 (100%)	0	100	100
1	c	167/167 (100%)	167 (100%)	0	100	100
1	d	163/167 (98%)	163 (100%)	0	100	100
1	e	161/167 (96%)	161 (100%)	0	100	100
1	f	167/167 (100%)	167 (100%)	0	100	100
1	g	163/167 (98%)	163 (100%)	0	100	100
1	h	161/167 (96%)	161 (100%)	0	100	100
1	i	167/167 (100%)	167 (100%)	0	100	100
1	j	163/167 (98%)	163 (100%)	0	100	100
1	k	161/167 (96%)	161 (100%)	0	100	100
1	l	167/167 (100%)	167 (100%)	0	100	100
1	m	163/167 (98%)	163 (100%)	0	100	100
1	n	161/167 (96%)	161 (100%)	0	100	100
1	o	167/167 (100%)	167 (100%)	0	100	100
1	p	163/167 (98%)	163 (100%)	0	100	100
1	q	161/167 (96%)	161 (100%)	0	100	100
1	r	167/167 (100%)	167 (100%)	0	100	100
1	s	163/167 (98%)	163 (100%)	0	100	100
1	t	161/167 (96%)	161 (100%)	0	100	100
1	u	167/167 (100%)	167 (100%)	0	100	100
1	v	163/167 (98%)	163 (100%)	0	100	100
1	w	161/167 (96%)	161 (100%)	0	100	100
1	x	167/167 (100%)	167 (100%)	0	100	100
1	y	163/167 (98%)	163 (100%)	0	100	100
1	z	161/167 (96%)	161 (100%)	0	100	100
All	All	29460/30060 (98%)	29460 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (316) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	241	GLN
1	B	105	HIS
1	B	132	HIS
1	B	186	ASN
1	B	215	ASN
1	C	141	GLN
1	D	241	GLN
1	E	105	HIS
1	E	215	ASN
1	F	141	GLN
1	G	241	GLN
1	H	186	ASN
1	H	215	ASN
1	I	141	GLN
1	J	241	GLN
1	K	132	HIS
1	K	215	ASN
1	L	141	GLN
1	M	105	HIS
1	M	241	GLN
1	N	105	HIS
1	N	132	HIS
1	N	186	ASN
1	N	215	ASN
1	O	141	GLN
1	P	241	GLN
1	Q	186	ASN
1	Q	215	ASN
1	R	141	GLN
1	S	105	HIS
1	S	241	GLN
1	T	105	HIS
1	T	132	HIS
1	T	215	ASN
1	U	141	GLN
1	V	241	GLN
1	W	105	HIS
1	W	186	ASN
1	W	215	ASN
1	X	141	GLN
1	Y	241	GLN
1	Z	105	HIS
1	Z	215	ASN

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Mol	Chain	Res	Type
1	a	141	GLN
1	b	241	GLN
1	c	105	HIS
1	c	186	ASN
1	c	215	ASN
1	d	141	GLN
1	e	105	HIS
1	e	241	GLN
1	f	105	HIS
1	f	132	HIS
1	f	186	ASN
1	f	215	ASN
1	g	141	GLN
1	h	105	HIS
1	h	241	GLN
1	i	105	HIS
1	i	186	ASN
1	i	215	ASN
1	j	141	GLN
1	k	241	GLN
1	l	105	HIS
1	l	215	ASN
1	m	141	GLN
1	n	241	GLN
1	o	186	ASN
1	o	215	ASN
1	p	141	GLN
1	q	241	GLN
1	r	105	HIS
1	r	215	ASN
1	s	141	GLN
1	t	105	HIS
1	t	241	GLN
1	u	105	HIS
1	u	132	HIS
1	u	186	ASN
1	u	215	ASN
1	v	141	GLN
1	w	241	GLN
1	x	105	HIS
1	x	215	ASN
1	y	141	GLN

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Mol	Chain	Res	Type
1	z	105	HIS
1	z	241	GLN
1	1	105	HIS
1	1	132	HIS
1	1	186	ASN
1	1	215	ASN
1	2	141	GLN
1	3	105	HIS
1	3	241	GLN
1	4	105	HIS
1	4	186	ASN
1	4	215	ASN
1	5	141	GLN
1	6	241	GLN
1	7	105	HIS
1	7	132	HIS
1	7	215	ASN
1	8	141	GLN
1	9	241	GLN
1	0	105	HIS
1	0	132	HIS
1	0	186	ASN
1	0	215	ASN
1	AA	141	GLN
1	AB	241	GLN
1	AC	105	HIS
1	AC	132	HIS
1	AC	186	ASN
1	AC	215	ASN
1	AD	141	GLN
1	AE	241	GLN
1	AF	105	HIS
1	AF	186	ASN
1	AF	215	ASN
1	AG	141	GLN
1	AH	241	GLN
1	AI	105	HIS
1	AI	186	ASN
1	AI	215	ASN
1	AJ	141	GLN
1	AK	241	GLN
1	AL	105	HIS

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Mol	Chain	Res	Type
1	AL	186	ASN
1	AL	215	ASN
1	AM	141	GLN
1	AN	241	GLN
1	AO	105	HIS
1	AO	132	HIS
1	AO	186	ASN
1	AO	215	ASN
1	AP	141	GLN
1	AQ	241	GLN
1	AR	105	HIS
1	AR	132	HIS
1	AR	215	ASN
1	AS	141	GLN
1	AT	241	GLN
1	AU	105	HIS
1	AU	132	HIS
1	AU	186	ASN
1	AU	215	ASN
1	AV	141	GLN
1	AW	241	GLN
1	AX	132	HIS
1	AX	215	ASN
1	AY	141	GLN
1	AZ	241	GLN
1	Aa	105	HIS
1	Aa	132	HIS
1	Aa	186	ASN
1	Aa	215	ASN
1	Ab	141	GLN
1	Ac	241	GLN
1	Ad	105	HIS
1	Ad	132	HIS
1	Ad	186	ASN
1	Ad	215	ASN
1	Ae	141	GLN
1	Ae	186	ASN
1	Af	241	GLN
1	Ag	105	HIS
1	Ag	132	HIS
1	Ag	186	ASN
1	Ag	215	ASN

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Mol	Chain	Res	Type
1	Ah	141	GLN
1	Aj	105	HIS
1	Aj	132	HIS
1	Aj	215	ASN
1	Ak	141	GLN
1	Al	241	GLN
1	Am	132	HIS
1	Am	186	ASN
1	Am	215	ASN
1	An	141	GLN
1	Ao	241	GLN
1	Ap	105	HIS
1	Ap	132	HIS
1	Ap	215	ASN
1	Aq	141	GLN
1	Ar	241	GLN
1	As	132	HIS
1	As	186	ASN
1	As	215	ASN
1	At	141	GLN
1	Au	241	GLN
1	Av	105	HIS
1	Av	186	ASN
1	Av	215	ASN
1	Aw	141	GLN
1	Ax	241	GLN
1	Ay	132	HIS
1	Ay	186	ASN
1	Ay	215	ASN
1	Az	141	GLN
1	A1	241	GLN
1	A2	105	HIS
1	A2	132	HIS
1	A2	186	ASN
1	A2	215	ASN
1	A3	141	GLN
1	A4	241	GLN
1	A5	132	HIS
1	A5	186	ASN
1	A5	215	ASN
1	A6	141	GLN
1	A6	186	ASN

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Mol	Chain	Res	Type
1	A7	241	GLN
1	A8	105	HIS
1	A8	132	HIS
1	A8	186	ASN
1	A8	215	ASN
1	A9	141	GLN
1	A0	241	GLN
1	BA	105	HIS
1	BA	132	HIS
1	BA	186	ASN
1	BA	215	ASN
1	BB	141	GLN
1	BB	186	ASN
1	BC	241	GLN
1	BD	132	HIS
1	BD	215	ASN
1	BE	141	GLN
1	BF	241	GLN
1	BG	132	HIS
1	BG	186	ASN
1	BG	215	ASN
1	BH	141	GLN
1	BI	241	GLN
1	BJ	105	HIS
1	BJ	186	ASN
1	BJ	215	ASN
1	BK	141	GLN
1	BL	241	GLN
1	BM	105	HIS
1	BM	132	HIS
1	BM	186	ASN
1	BM	215	ASN
1	BN	141	GLN
1	BO	241	GLN
1	BP	105	HIS
1	BP	132	HIS
1	BP	215	ASN
1	BQ	141	GLN
1	BR	241	GLN
1	BS	105	HIS
1	BS	132	HIS
1	BS	186	ASN

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Mol	Chain	Res	Type
1	BS	215	ASN
1	BT	141	GLN
1	BU	241	GLN
1	BV	105	HIS
1	BV	186	ASN
1	BV	215	ASN
1	BW	141	GLN
1	BX	241	GLN
1	BY	105	HIS
1	BY	186	ASN
1	BY	215	ASN
1	BZ	141	GLN
1	Ba	241	GLN
1	Bb	132	HIS
1	Bb	215	ASN
1	Bc	141	GLN
1	Bc	186	ASN
1	Bd	241	GLN
1	Be	105	HIS
1	Be	215	ASN
1	Bf	141	GLN
1	Bg	241	GLN
1	Bh	105	HIS
1	Bh	132	HIS
1	Bh	186	ASN
1	Bh	215	ASN
1	Bi	141	GLN
1	Bj	241	GLN
1	Bk	132	HIS
1	Bk	186	ASN
1	Bk	215	ASN
1	Bl	141	GLN
1	Bl	186	ASN
1	Bm	241	GLN
1	Bn	132	HIS
1	Bn	186	ASN
1	Bn	215	ASN
1	Bo	141	GLN
1	Bp	241	GLN
1	Bq	132	HIS
1	Bq	215	ASN
1	Br	141	GLN

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Mol	Chain	Res	Type
1	Bs	241	GLN
1	Bt	105	HIS
1	Bt	186	ASN
1	Bt	215	ASN
1	Bu	141	GLN
1	Bv	241	GLN
1	Bw	105	HIS
1	Bw	132	HIS
1	Bw	186	ASN
1	Bw	215	ASN
1	Bx	141	GLN
1	By	241	GLN
1	Bz	105	HIS
1	Bz	132	HIS
1	Bz	186	ASN
1	Bz	215	ASN
1	B1	141	GLN
1	B2	241	GLN
1	B3	132	HIS
1	B3	215	ASN
1	B4	141	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

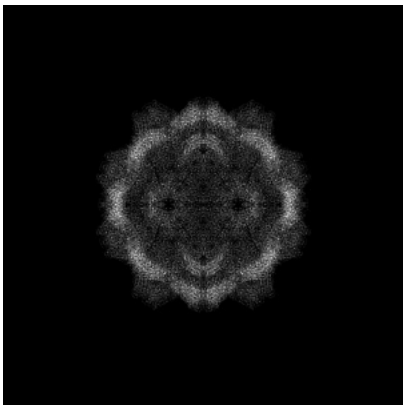
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-83742. These allow visual inspection of the internal detail of the map and identification of artifacts.

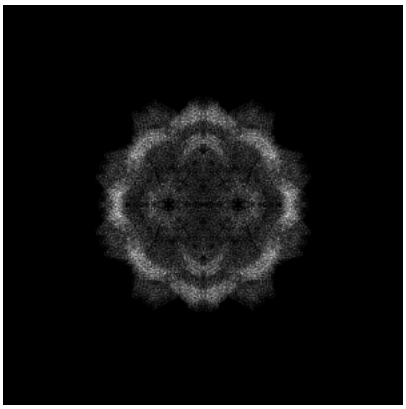
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

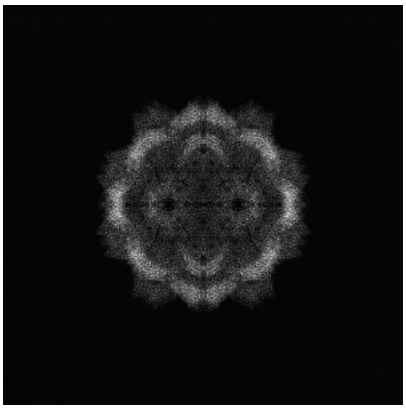
6.1.1 Primary map



X

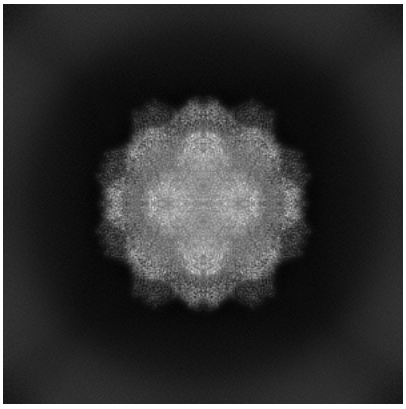


Y

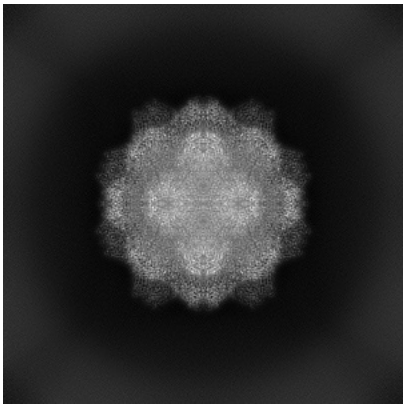


Z

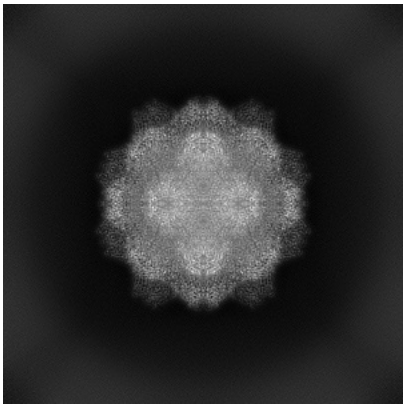
6.1.2 Raw map



X



Y

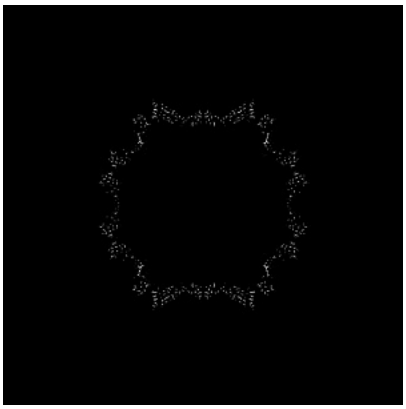


Z

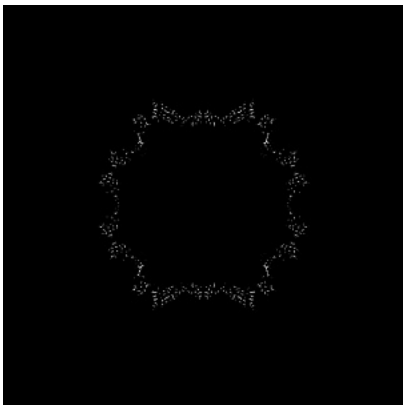
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

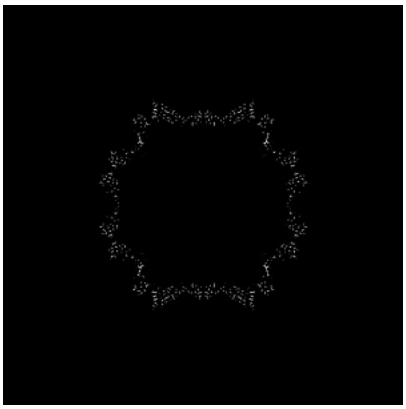
6.2.1 Primary map



X Index: 300

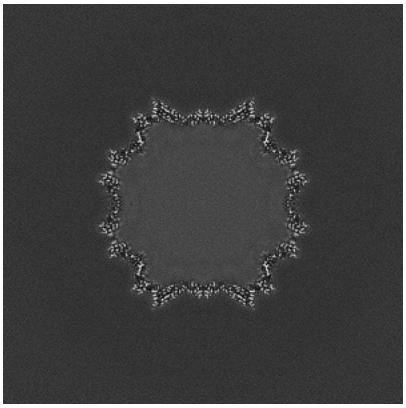


Y Index: 300

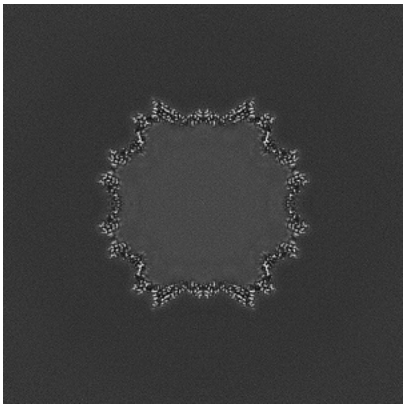


Z Index: 300

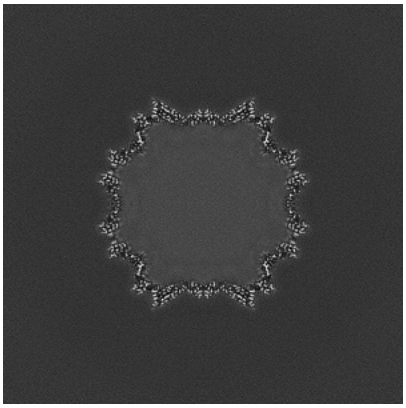
6.2.2 Raw map



X Index: 300



Y Index: 300

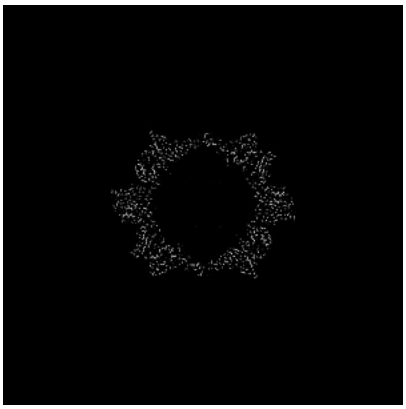


Z Index: 300

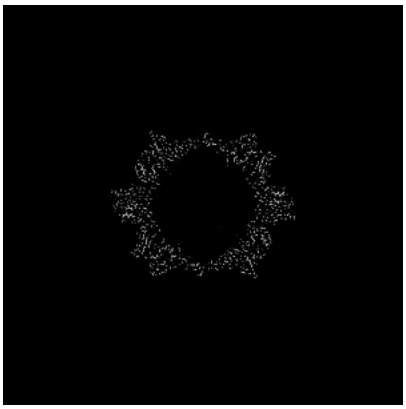
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

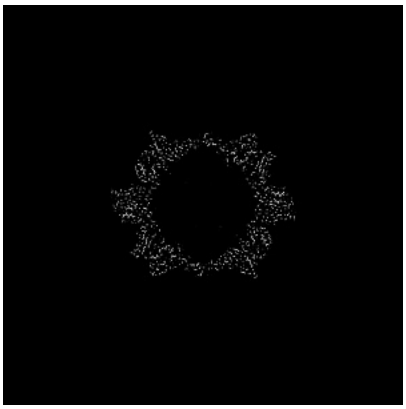
6.3.1 Primary map



X Index: 204

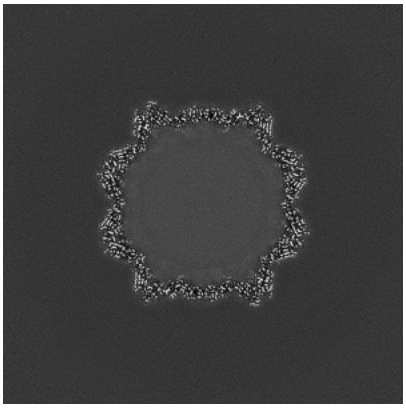


Y Index: 204

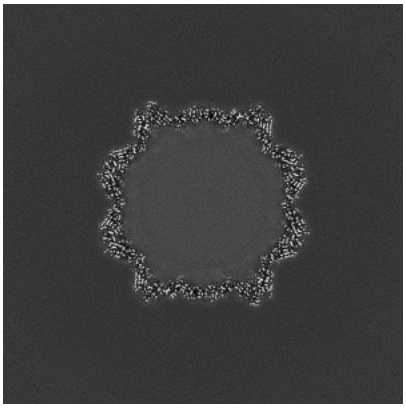


Z Index: 204

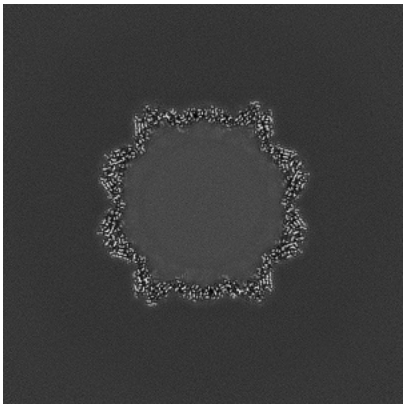
6.3.2 Raw map



X Index: 284



Y Index: 284

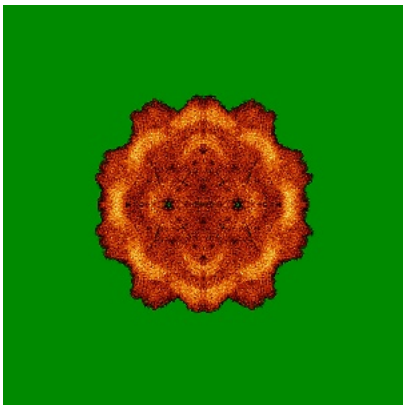


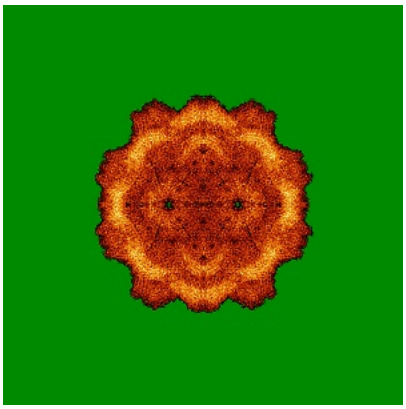
Z Index: 316

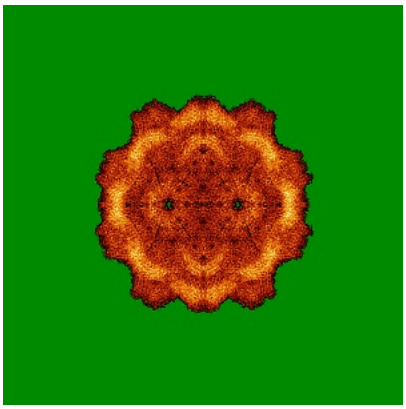
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

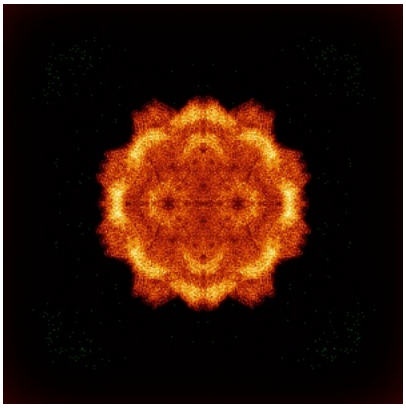
6.4.1 Primary map

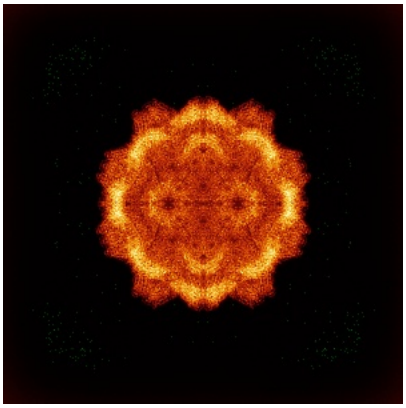

X

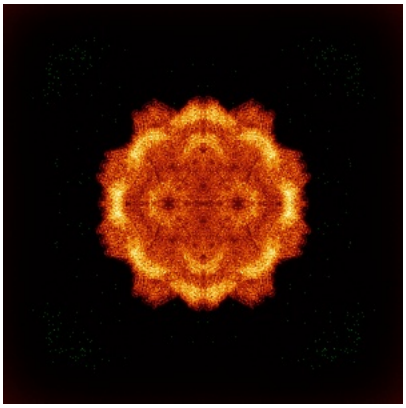

Y


Z

6.4.2 Raw map


X

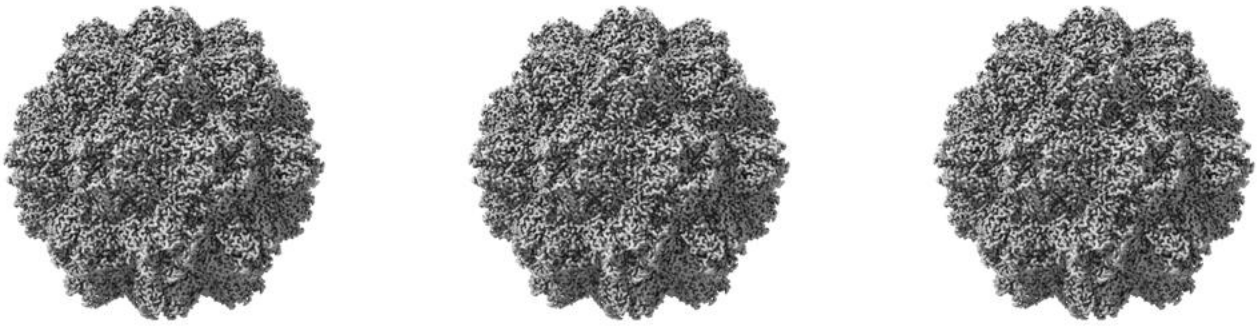

Y


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.

6.5 Orthogonal surface views (i)

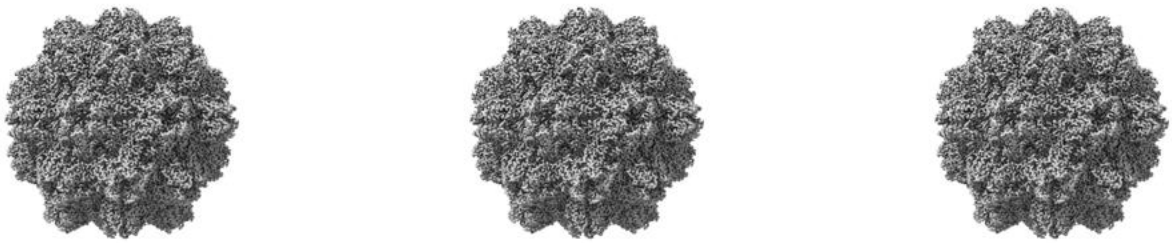
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.05. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 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.

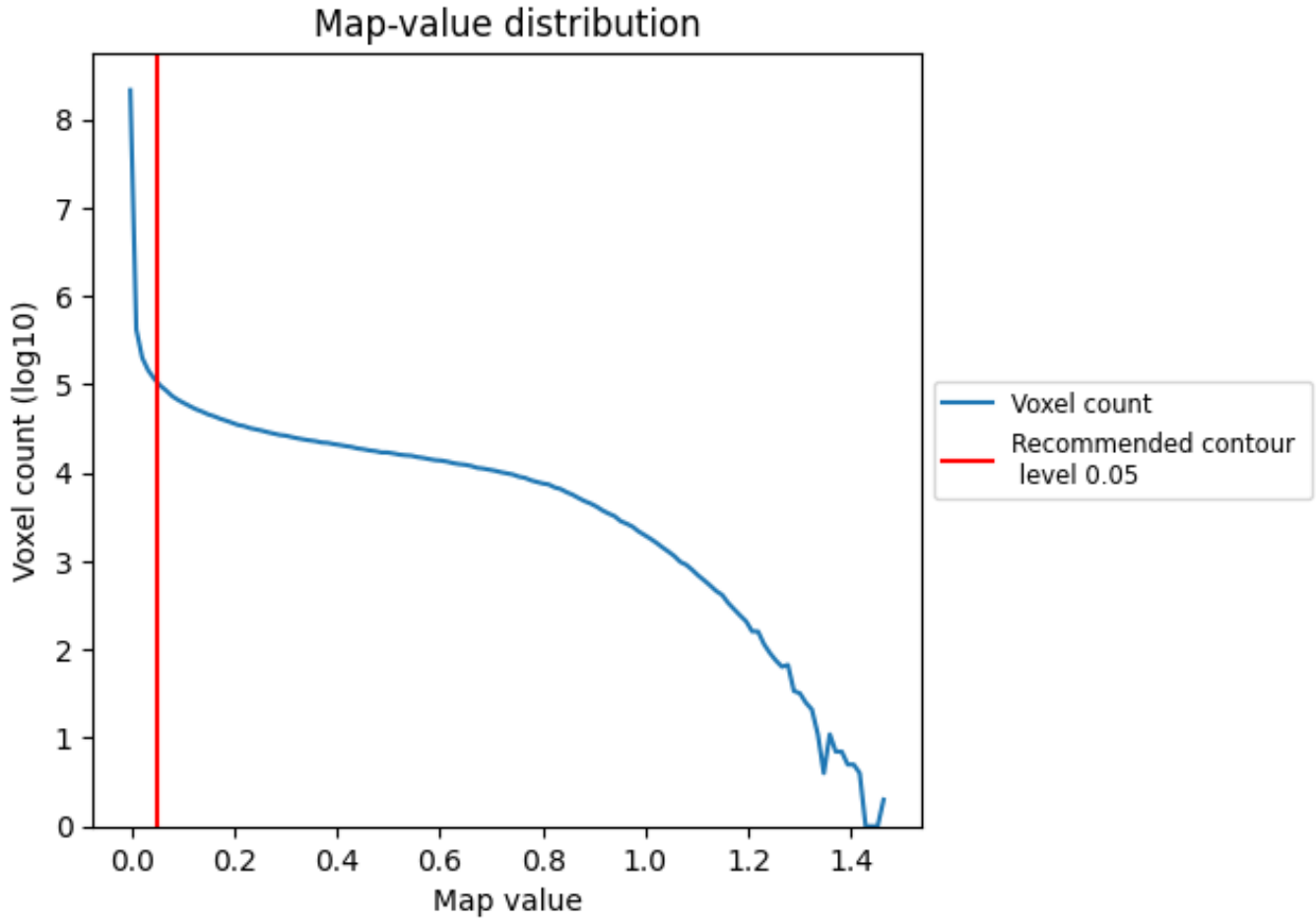
6.6 Mask visualisation (i)

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

7 Map analysis

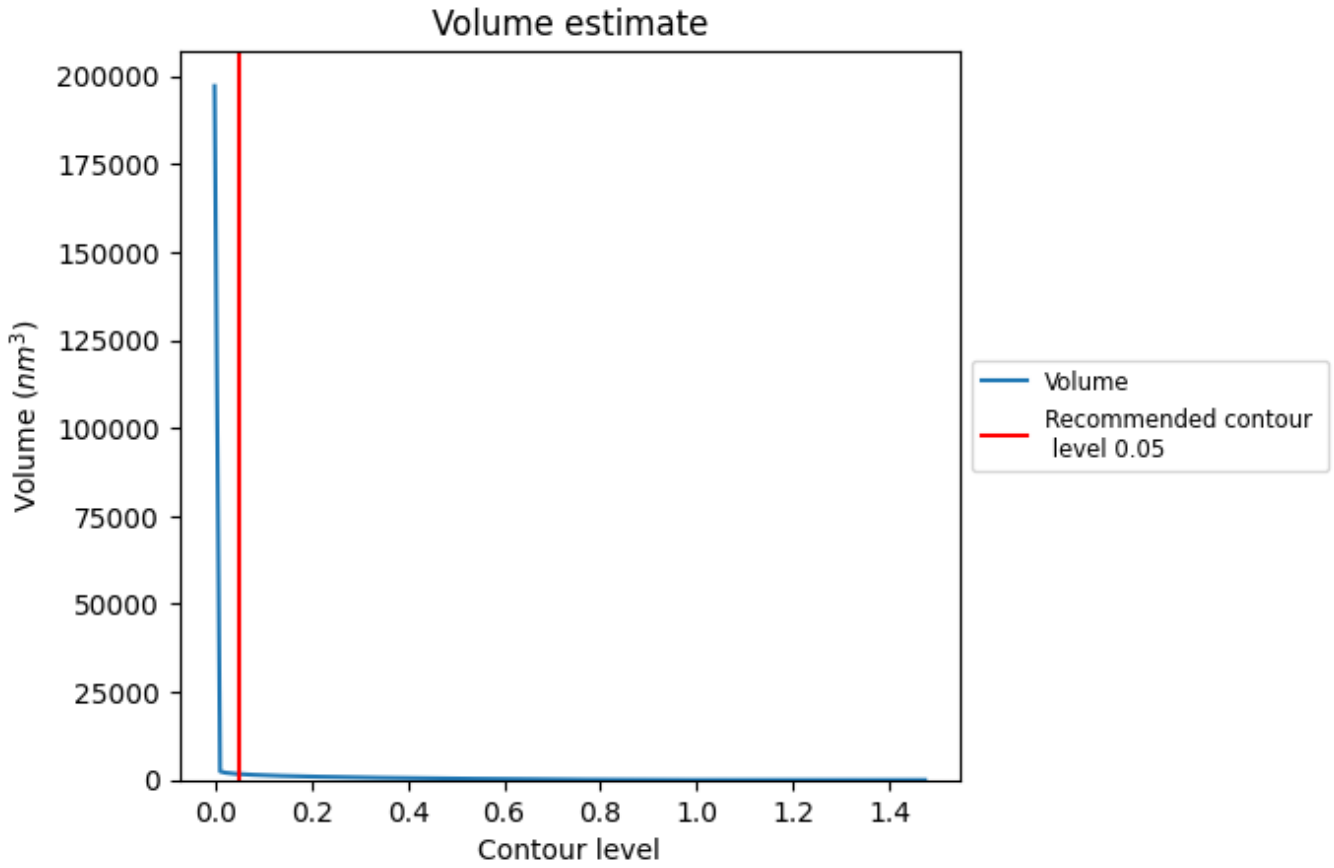
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

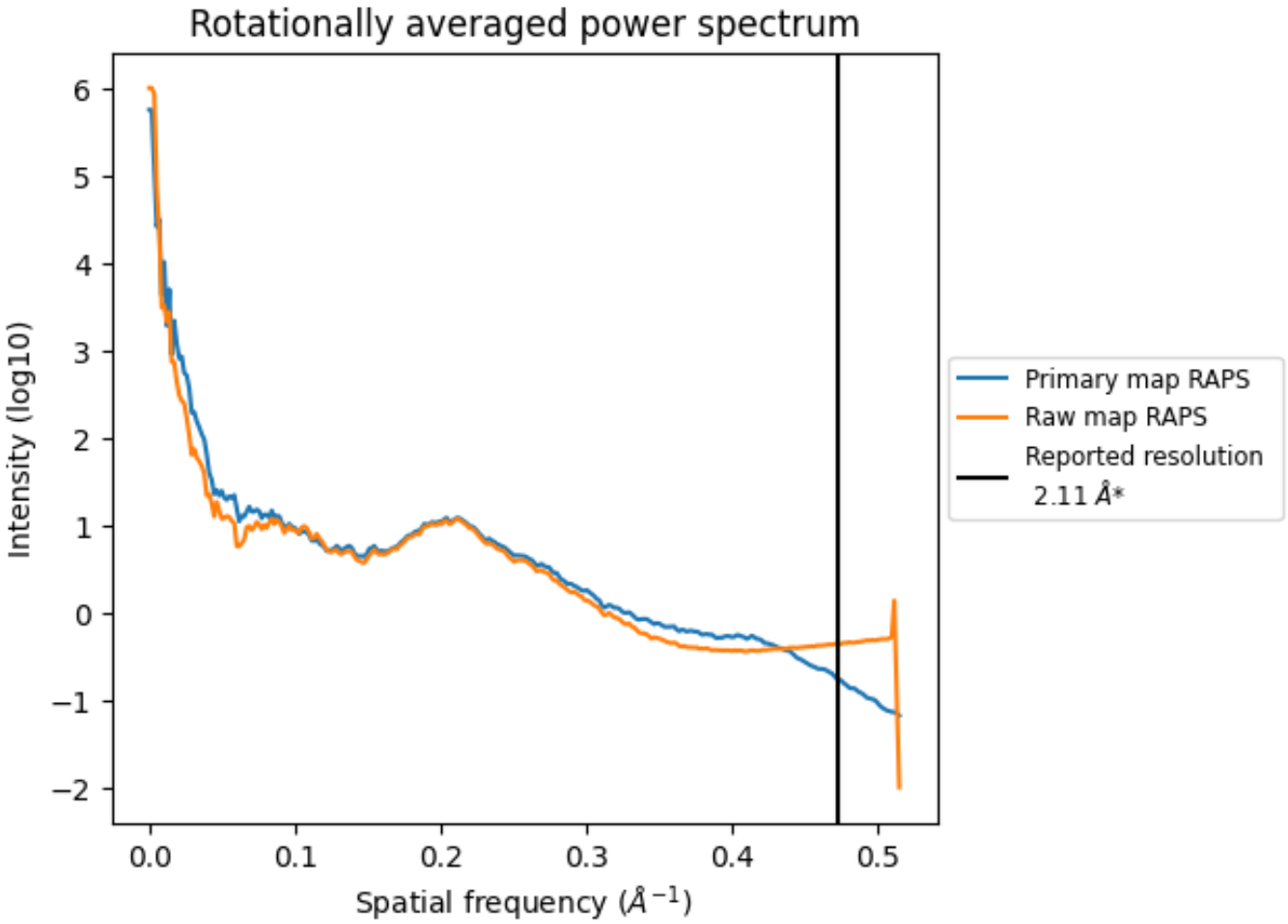
7.2 Volume estimate



The volume at the recommended contour level is 1675 nm^3; this corresponds to an approximate mass of 1513 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.

7.3 Rotationally averaged power spectrum (i)

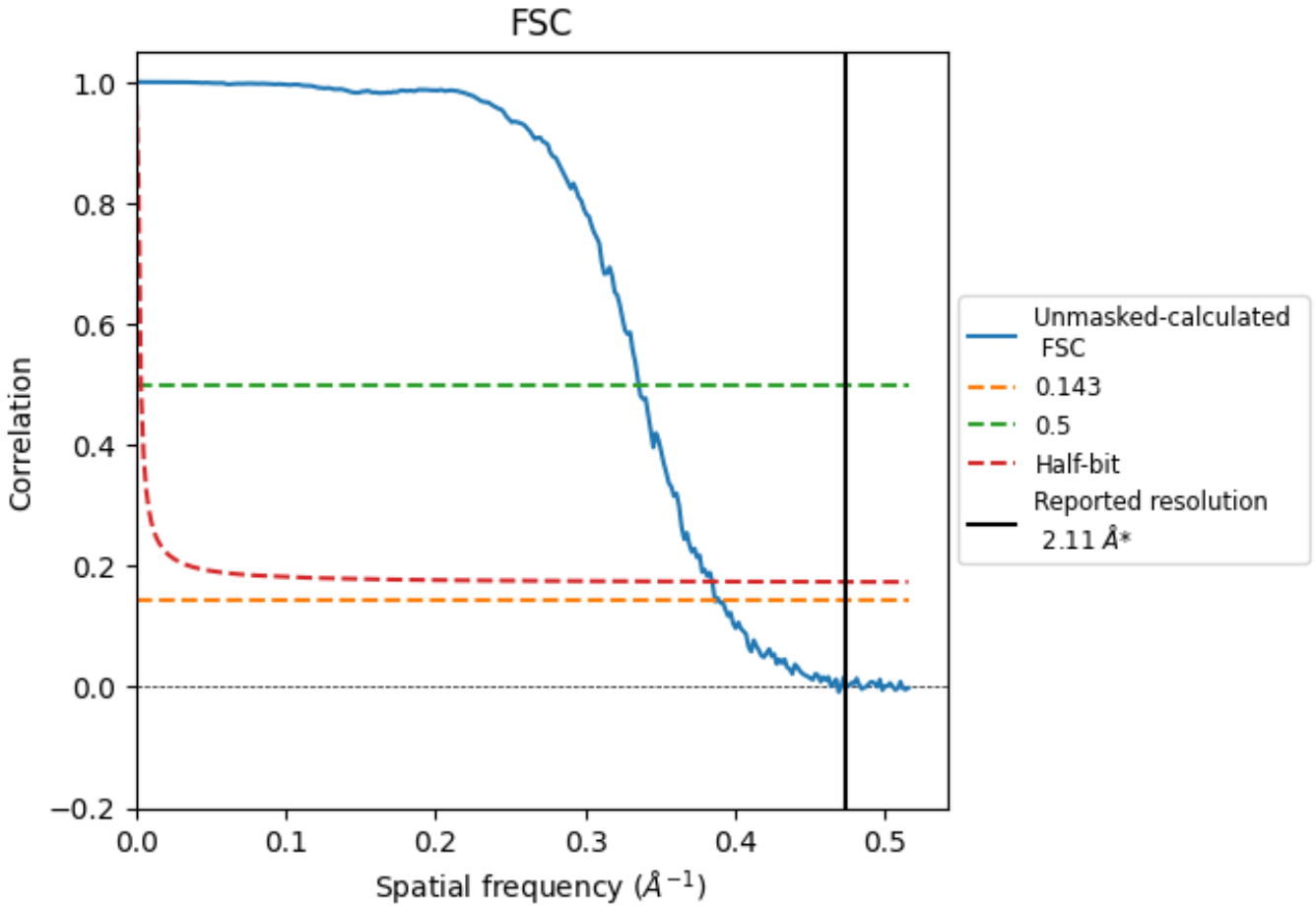


*Reported resolution corresponds to spatial frequency of 0.474 $Å^{-1}$

8 Fourier-Shell correlation

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.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.474 Å^{-1}

8.2 Resolution estimates (i)

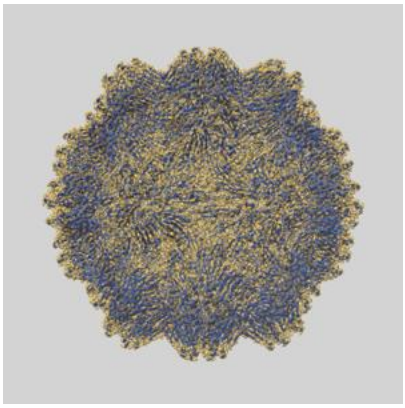
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.11	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.59	2.98	2.60

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 2.59 differs from the reported value 2.11 by more than 10 %

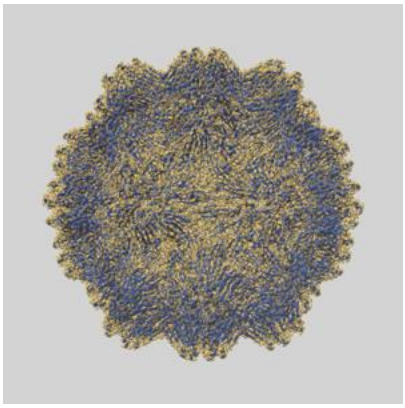
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-83742 and PDB model 46ER. Per-residue inclusion information can be found in section 3 on page 20.

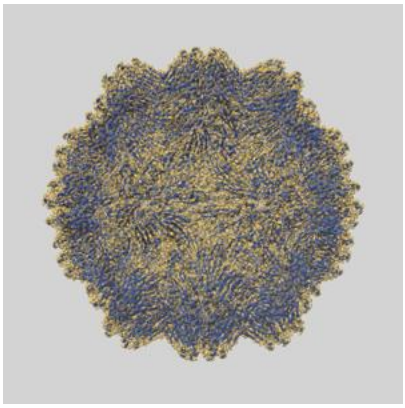
9.1 Map-model overlay



X



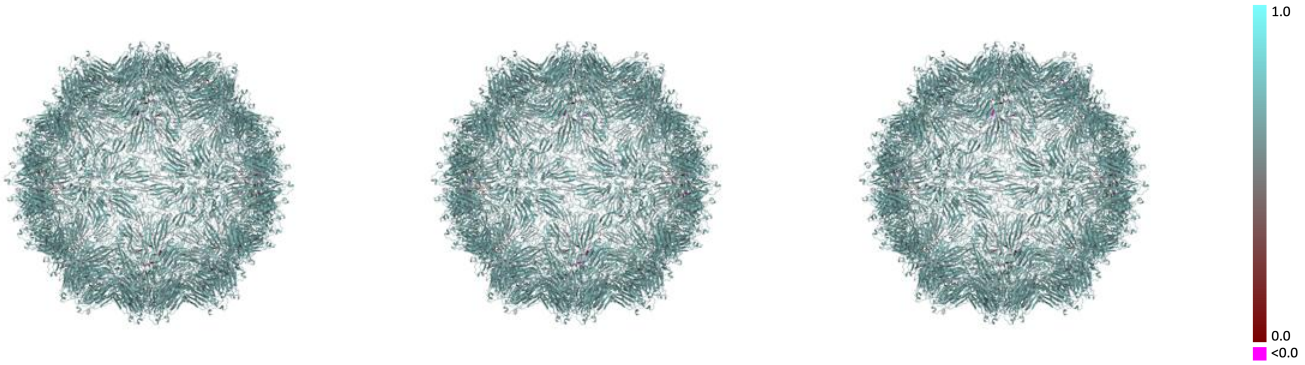
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.05 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.

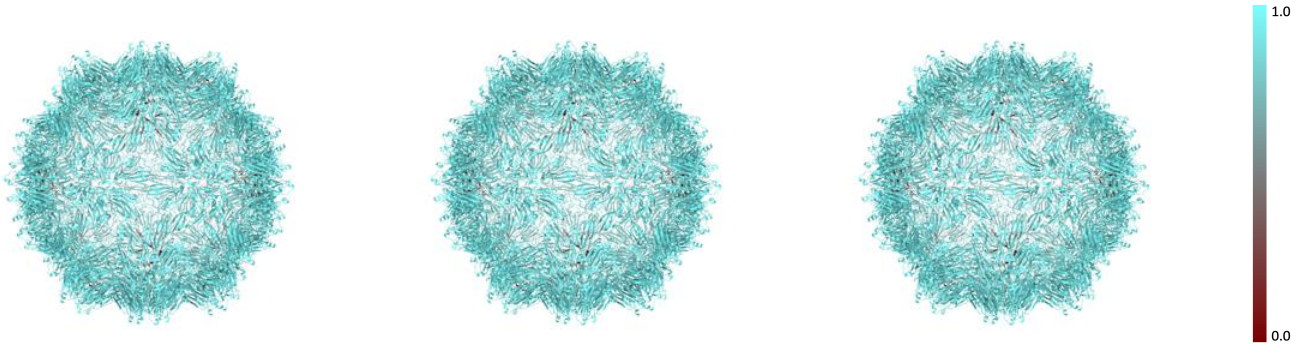
9.2 Q-score mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

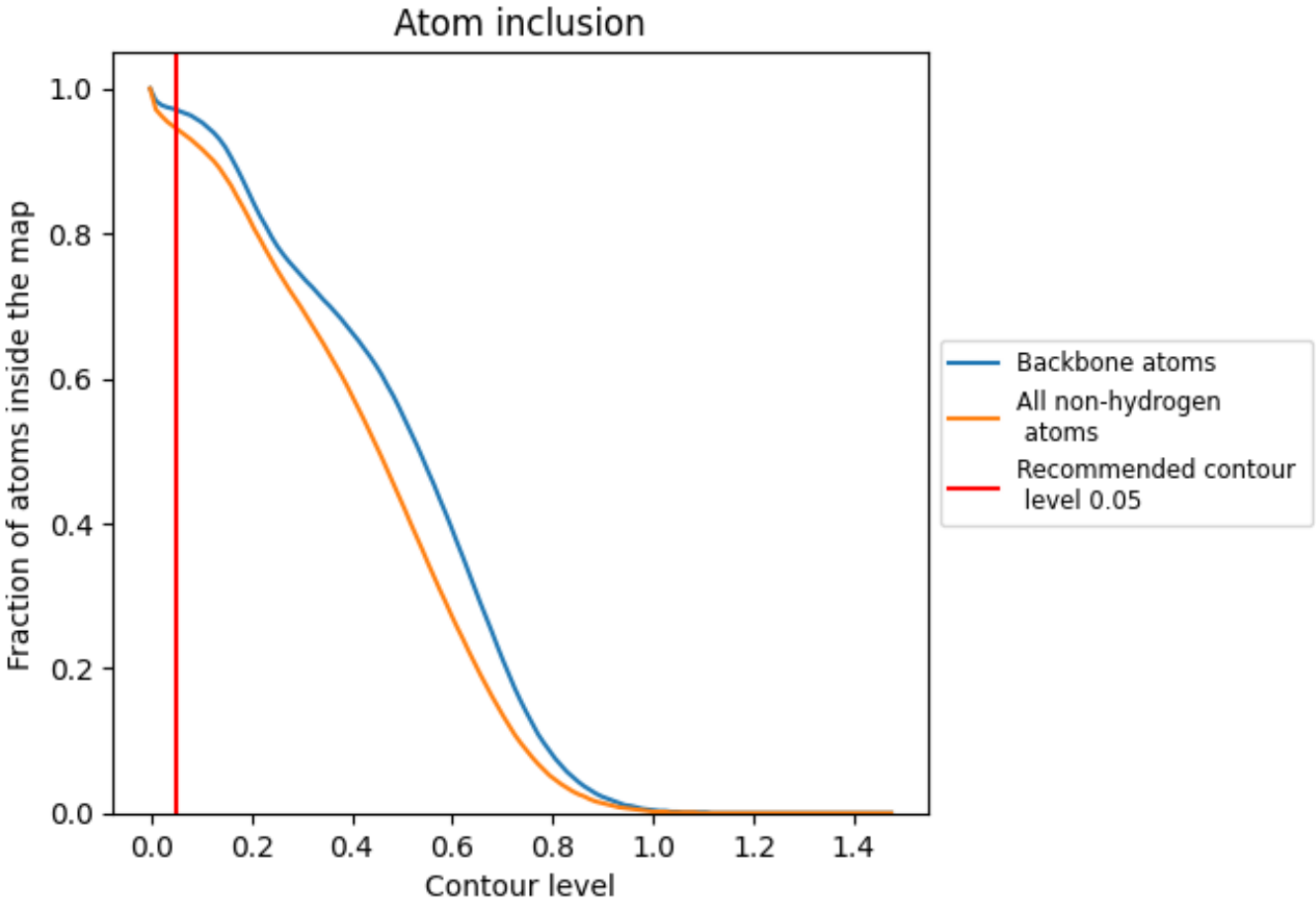
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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 (0.05).

9.4 Atom inclusion (i)



At the recommended contour level, 97% of all backbone atoms, 94% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.05) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9450	0.6340
0	0.9510	0.6390
1	0.9500	0.6390
2	0.9660	0.6450
3	0.9210	0.6220
4	0.9470	0.6400
5	0.9630	0.6390
6	0.9190	0.6210
7	0.9450	0.6390
8	0.9660	0.6400
9	0.9240	0.6270
A	0.9270	0.6320
A0	0.9300	0.6250
A1	0.9200	0.6230
A2	0.9490	0.6420
A3	0.9650	0.6410
A4	0.9200	0.6260
A5	0.9560	0.6410
A6	0.9630	0.6390
A7	0.9190	0.6210
A8	0.9420	0.6440
A9	0.9650	0.6420
AA	0.9610	0.6360
AB	0.9260	0.6260
AC	0.9510	0.6380
AD	0.9640	0.6400
AE	0.9260	0.6280
AF	0.9520	0.6390
AG	0.9670	0.6400
AH	0.9160	0.6160
AI	0.9490	0.6380
AJ	0.9640	0.6380
AK	0.9210	0.6290
AL	0.9530	0.6440
AM	0.9650	0.6410



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Chain	Atom inclusion	Q-score
AN	0.9210	0.6250
AO	0.9490	0.6400
AP	0.9680	0.6400
AQ	0.9290	0.6290
AR	0.9500	0.6410
AS	0.9650	0.6390
AT	0.9190	0.6230
AU	0.9470	0.6410
AV	0.9660	0.6430
AW	0.9300	0.6290
AX	0.9520	0.6390
AY	0.9650	0.6380
AZ	0.9160	0.6250
Aa	0.9420	0.6330
Ab	0.9640	0.6390
Ac	0.9310	0.6310
Ad	0.9520	0.6420
Ae	0.9650	0.6440
Af	0.9260	0.6280
Ag	0.9510	0.6370
Ah	0.9660	0.6390
Ai	0.9190	0.6260
Aj	0.9490	0.6400
Ak	0.9670	0.6420
Al	0.9190	0.6230
Am	0.9520	0.6400
An	0.9660	0.6370
Ao	0.9240	0.6280
Ap	0.9470	0.6420
Aq	0.9640	0.6330
Ar	0.9170	0.6140
As	0.9450	0.6410
At	0.9610	0.6330
Au	0.9360	0.6320
Av	0.9490	0.6400
Aw	0.9670	0.6370
Ax	0.9220	0.6270
Ay	0.9490	0.6400
Az	0.9660	0.6400
B	0.9490	0.6400
B1	0.9650	0.6370
B2	0.9160	0.6210

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Chain	Atom inclusion	Q-score
B3	0.9440	0.6390
B4	0.9630	0.6400
BA	0.9510	0.6360
BB	0.9600	0.6370
BC	0.9210	0.6250
BD	0.9450	0.6300
BE	0.9640	0.6360
BF	0.9230	0.6260
BG	0.9480	0.6390
BH	0.9630	0.6350
BI	0.9190	0.6220
BJ	0.9430	0.6400
BK	0.9610	0.6330
BL	0.9240	0.6220
BM	0.9440	0.6390
BN	0.9630	0.6350
BO	0.9150	0.6200
BP	0.9450	0.6340
BQ	0.9620	0.6330
BR	0.9290	0.6340
BS	0.9520	0.6400
BT	0.9650	0.6440
BU	0.9180	0.6180
BV	0.9460	0.6340
BW	0.9620	0.6400
BX	0.9210	0.6240
BY	0.9510	0.6370
BZ	0.9630	0.6430
Ba	0.9210	0.6210
Bb	0.9470	0.6390
Bc	0.9650	0.6350
Bd	0.9190	0.6250
Be	0.9510	0.6370
Bf	0.9640	0.6400
Bg	0.9210	0.6220
Bh	0.9500	0.6420
Bi	0.9630	0.6390
Bj	0.9170	0.6210
Bk	0.9520	0.6380
Bl	0.9630	0.6390
Bm	0.9180	0.6190
Bn	0.9480	0.6390

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Chain	Atom inclusion	Q-score
Bo	0.9610	0.6410
Bp	0.9320	0.6290
Bq	0.9500	0.6370
Br	0.9650	0.6380
Bs	0.9320	0.6290
Bt	0.9530	0.6400
Bu	0.9680	0.6410
Bv	0.9240	0.6230
Bw	0.9470	0.6420
Bx	0.9680	0.6430
By	0.9210	0.6240
Bz	0.9530	0.6410
C	0.9650	0.6430
D	0.9210	0.6280
E	0.9510	0.6380
F	0.9670	0.6390
G	0.9240	0.6270
H	0.9490	0.6400
I	0.9640	0.6420
J	0.9220	0.6230
K	0.9490	0.6330
L	0.9650	0.6360
M	0.9260	0.6300
N	0.9460	0.6390
O	0.9630	0.6360
P	0.9220	0.6250
Q	0.9460	0.6380
R	0.9600	0.6320
S	0.9230	0.6290
T	0.9490	0.6400
U	0.9650	0.6350
V	0.9200	0.6280
W	0.9520	0.6420
X	0.9650	0.6400
Y	0.9160	0.6250
Z	0.9510	0.6410
a	0.9640	0.6380
b	0.9240	0.6260
c	0.9480	0.6360
d	0.9630	0.6390
e	0.9210	0.6290
f	0.9460	0.6390

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Chain	Atom inclusion	Q-score
g	0.9630	0.6410
h	0.9330	0.6280
i	0.9530	0.6370
j	0.9630	0.6370
k	0.9170	0.6240
l	0.9440	0.6330
m	0.9630	0.6360
n	0.9190	0.6220
o	0.9470	0.6380
p	0.9610	0.6310
q	0.9210	0.6190
r	0.9440	0.6370
s	0.9610	0.6350
t	0.9300	0.6310
u	0.9470	0.6380
v	0.9650	0.6350
w	0.9190	0.6230
x	0.9470	0.6300
y	0.9640	0.6350
z	0.9240	0.6310