



Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 12:02 PM UTC

PDB ID : 7O0I / pdb_00007o0i
EMDB ID : EMD-12676
Title : Vibrio vulnificus stressosome
Authors : Kaltwasser, S.; Heinz, V.; Madej, M.G.; Pane-Farre, J.; Ziegler, C.
Deposited on : 2021-03-26
Resolution : 8.30 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
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) : 2.49

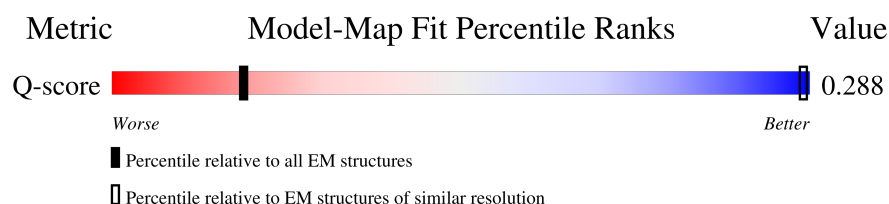
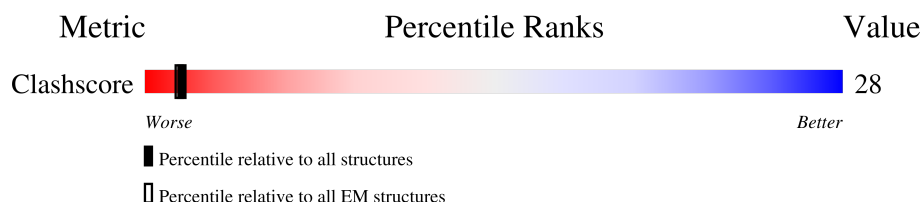
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

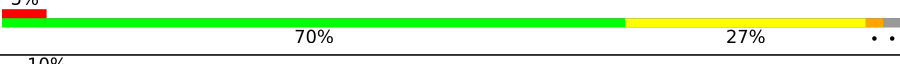
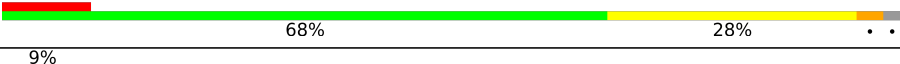
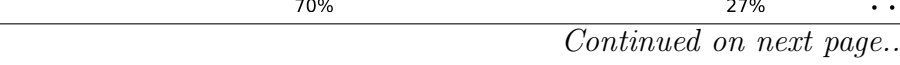
The reported resolution of this entry is 8.30 Å.

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.



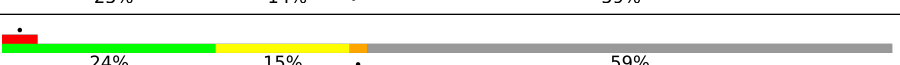
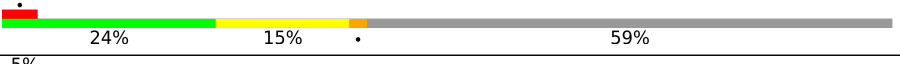
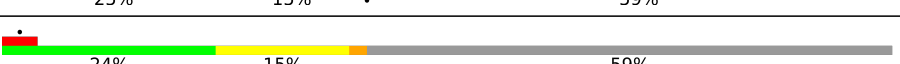
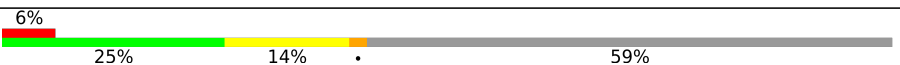
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Q-score	-	25397	280 (7.82 - 8.80)

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 $\leq 5\%$. 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	A	115	
1	D	115	
1	O	115	
1	P	115	
1	a	115	
1	b	115	

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Mol	Chain	Length	Quality of chain
1	e	115	
1	f	115	
1	g	115	
1	t	115	
1	u	115	
1	v	115	
2	1	306	
2	2	306	
2	4	306	
2	5	306	
2	6	306	
2	7	306	
2	8	306	
2	9	306	
2	B	306	
2	C	306	
2	E	306	
2	F	306	
2	G	306	
2	H	306	
2	I	306	
2	J	306	
2	K	306	
2	L	306	
2	M	306	

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Mol	Chain	Length	Quality of chain
2	N	306	
2	Q	306	
2	R	306	
2	S	306	
2	T	306	
2	U	306	
2	V	306	
2	W	306	
2	X	306	
2	Y	306	
2	Z	306	
2	c	306	
2	d	306	
2	h	306	
2	i	306	
2	j	306	
2	k	306	
2	l	306	
2	m	306	
2	n	306	
2	o	306	
2	p	306	
2	q	306	
2	r	306	
2	s	306	

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Mol	Chain	Length	Quality of chain
2	w	306	25%14%59%
2	x	306	5% 25%14%59%
2	y	306	25%14%59%
2	z	306	6% 25%14%59%

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 36384 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 RsbS, negative regulator of sigma-B.

Mol	Chain	Residues	Atoms				AltConf	Trace
1	a	113	Total 556	C 330	N 113	O 113	0	0
1	b	113	Total 556	C 330	N 113	O 113	0	0
1	A	113	Total 556	C 330	N 113	O 113	0	0
1	D	113	Total 556	C 330	N 113	O 113	0	0
1	O	113	Total 556	C 330	N 113	O 113	0	0
1	P	113	Total 556	C 330	N 113	O 113	0	0
1	e	113	Total 556	C 330	N 113	O 113	0	0
1	f	113	Total 556	C 330	N 113	O 113	0	0
1	g	113	Total 556	C 330	N 113	O 113	0	0
1	t	113	Total 556	C 330	N 113	O 113	0	0
1	u	113	Total 556	C 330	N 113	O 113	0	0
1	v	113	Total 556	C 330	N 113	O 113	0	0

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
a	63	SER	ARG	conflict	UNP A0A2S3QZH9
b	63	SER	ARG	conflict	UNP A0A2S3QZH9
A	63	SER	ARG	conflict	UNP A0A2S3QZH9
D	63	SER	ARG	conflict	UNP A0A2S3QZH9
O	63	SER	ARG	conflict	UNP A0A2S3QZH9
P	63	SER	ARG	conflict	UNP A0A2S3QZH9

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Chain	Residue	Modelled	Actual	Comment	Reference
e	63	SER	ARG	conflict	UNP A0A2S3QZH9
f	63	SER	ARG	conflict	UNP A0A2S3QZH9
g	63	SER	ARG	conflict	UNP A0A2S3QZH9
t	63	SER	ARG	conflict	UNP A0A2S3QZH9
u	63	SER	ARG	conflict	UNP A0A2S3QZH9
v	63	SER	ARG	conflict	UNP A0A2S3QZH9

- Molecule 2 is a protein called Anti-anti-sigma factor.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	B	125	Total 619	C 369	N 125	O 125	0	0
2	C	125	Total 619	C 369	N 125	O 125	0	0
2	E	125	Total 619	C 369	N 125	O 125	0	0
2	F	125	Total 619	C 369	N 125	O 125	0	0
2	G	125	Total 619	C 369	N 125	O 125	0	0
2	H	125	Total 619	C 369	N 125	O 125	0	0
2	I	125	Total 619	C 369	N 125	O 125	0	0
2	J	125	Total 619	C 369	N 125	O 125	0	0
2	K	125	Total 619	C 369	N 125	O 125	0	0
2	L	125	Total 619	C 369	N 125	O 125	0	0
2	M	125	Total 619	C 369	N 125	O 125	0	0
2	N	125	Total 619	C 369	N 125	O 125	0	0
2	Q	125	Total 619	C 369	N 125	O 125	0	0
2	R	125	Total 619	C 369	N 125	O 125	0	0
2	S	125	Total 619	C 369	N 125	O 125	0	0
2	T	125	Total 619	C 369	N 125	O 125	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
2	U	125	Total 619	C 369	N 125	O 125	0	0
2	V	125	Total 619	C 369	N 125	O 125	0	0
2	W	125	Total 619	C 369	N 125	O 125	0	0
2	X	125	Total 619	C 369	N 125	O 125	0	0
2	Y	125	Total 619	C 369	N 125	O 125	0	0
2	Z	125	Total 619	C 369	N 125	O 125	0	0
2	c	125	Total 619	C 369	N 125	O 125	0	0
2	d	125	Total 619	C 369	N 125	O 125	0	0
2	h	125	Total 619	C 369	N 125	O 125	0	0
2	i	125	Total 619	C 369	N 125	O 125	0	0
2	j	125	Total 619	C 369	N 125	O 125	0	0
2	k	125	Total 619	C 369	N 125	O 125	0	0
2	l	125	Total 619	C 369	N 125	O 125	0	0
2	m	125	Total 619	C 369	N 125	O 125	0	0
2	n	125	Total 619	C 369	N 125	O 125	0	0
2	o	125	Total 619	C 369	N 125	O 125	0	0
2	p	125	Total 619	C 369	N 125	O 125	0	0
2	q	125	Total 619	C 369	N 125	O 125	0	0
2	r	125	Total 619	C 369	N 125	O 125	0	0
2	s	125	Total 619	C 369	N 125	O 125	0	0
2	w	125	Total 619	C 369	N 125	O 125	0	0

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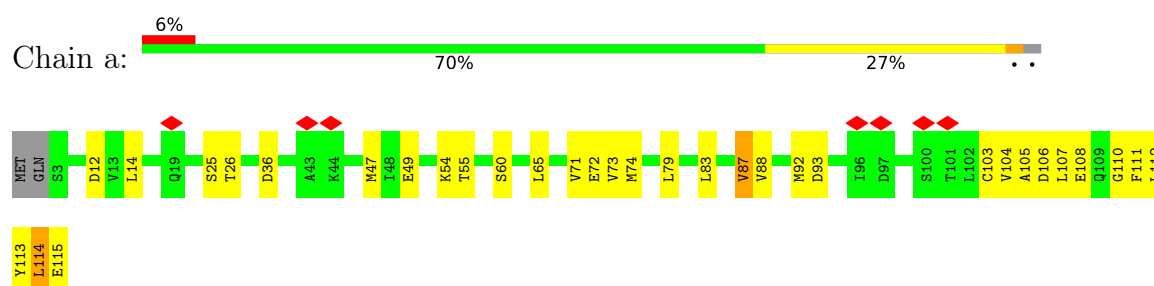
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Mol	Chain	Residues	Atoms				AltConf	Trace
2	x	125	Total 619	C 369	N 125	O 125	0	0
2	y	125	Total 619	C 369	N 125	O 125	0	0
2	z	125	Total 619	C 369	N 125	O 125	0	0
2	1	125	Total 619	C 369	N 125	O 125	0	0
2	2	125	Total 619	C 369	N 125	O 125	0	0
2	4	125	Total 619	C 369	N 125	O 125	0	0
2	5	125	Total 619	C 369	N 125	O 125	0	0
2	6	125	Total 619	C 369	N 125	O 125	0	0
2	7	125	Total 619	C 369	N 125	O 125	0	0
2	8	125	Total 619	C 369	N 125	O 125	0	0
2	9	125	Total 619	C 369	N 125	O 125	0	0

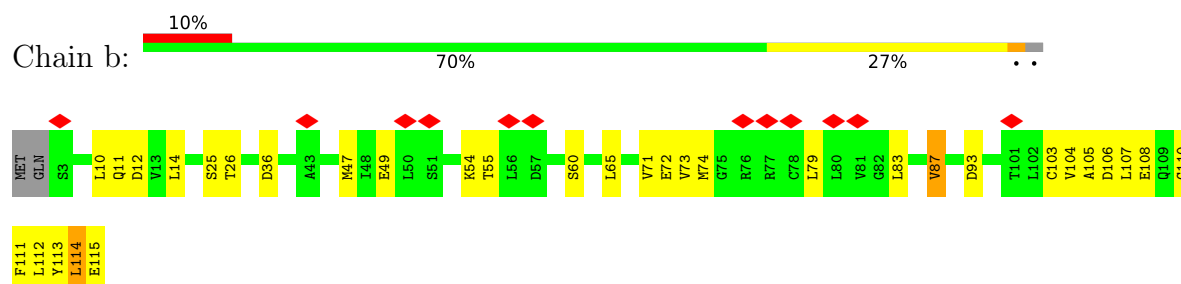
3 Residue-property plots [i](#)

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.

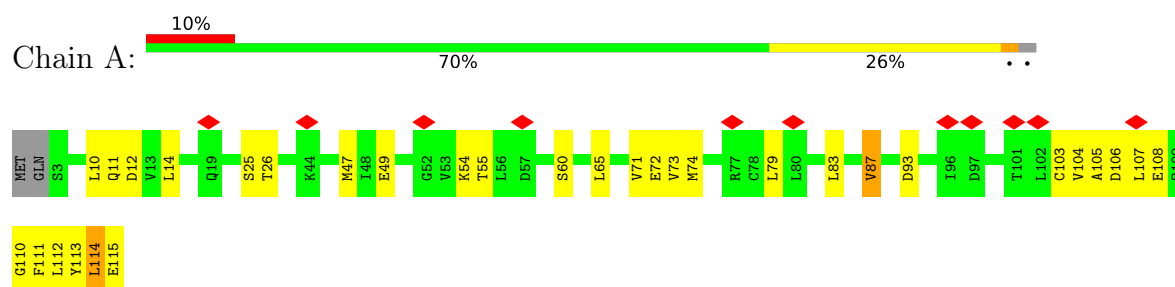
- Molecule 1: RsbS, negative regulator of sigma-B



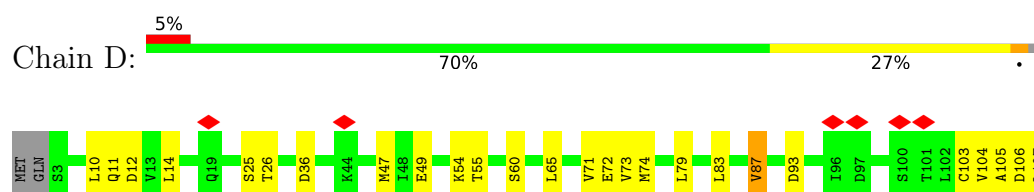
- Molecule 1: RsbS, negative regulator of sigma-B



- Molecule 1: RsbS, negative regulator of sigma-B



- Molecule 1: RsbS, negative regulator of sigma-B



L114
E115

- Molecule 1: RsbS, negative regulator of sigma-B

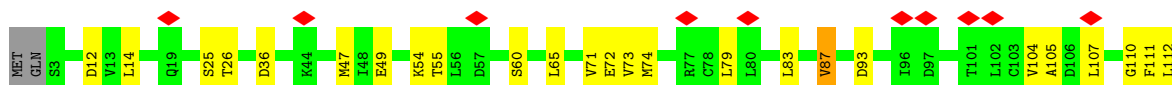
Chain O:  10% 68% 28% ..



E109
G110
F111
L112
Y113
L114
E115

- Molecule 1: RsbS, negative regulator of sigma-B

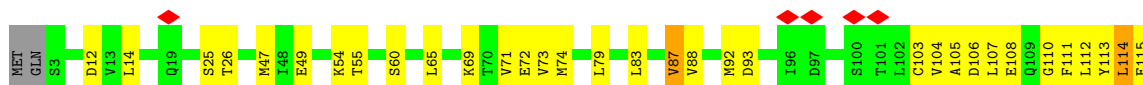
Chain P:  9% 74% 23% ..



Y113
L114
E115

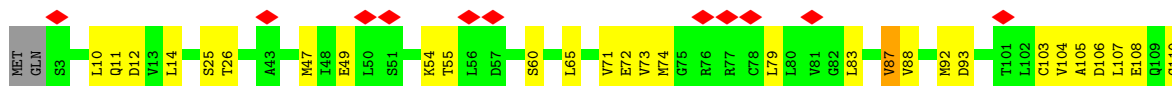
- Molecule 1: RsbS, negative regulator of sigma-B

Chain e:  70% 27% ..



- Molecule 1: RsbS, negative regulator of sigma-B

Chain f:  10% 69% 28% ..

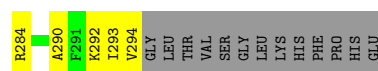


F111
L112
Y113
L114
E115

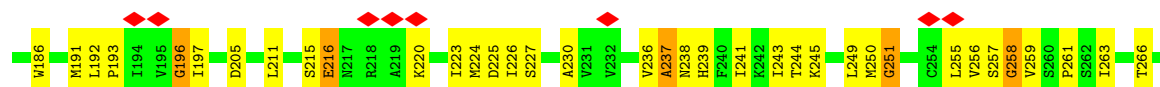
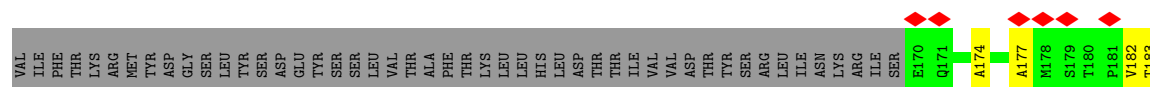
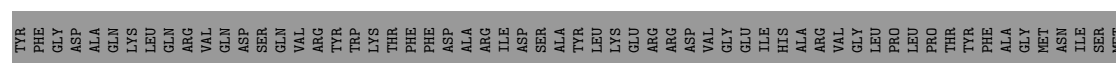
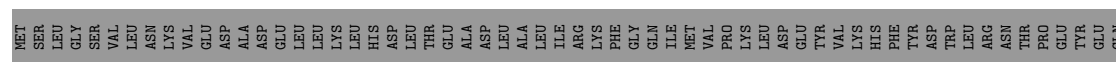
- Molecule 1: RsbS, negative regulator of sigma-B

Chain g:  10% 70% 26% ..

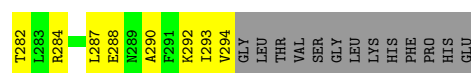
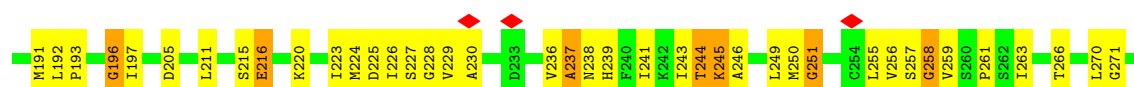
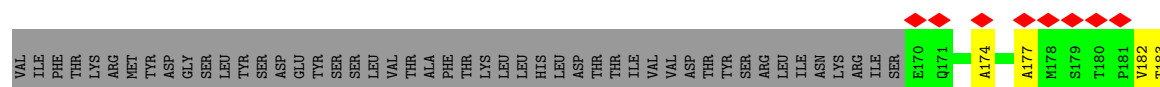
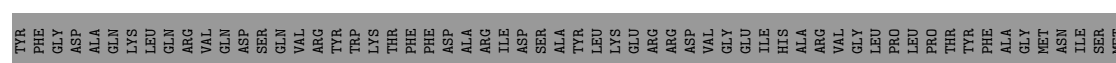
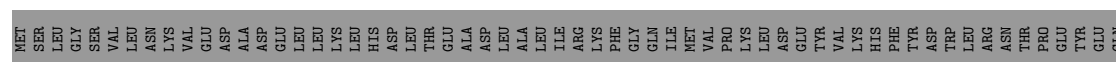




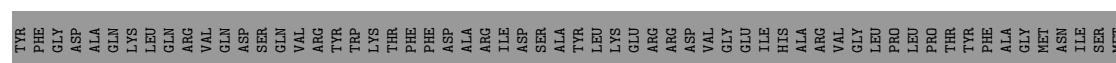
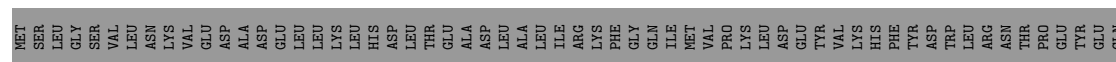
• Molecule 2: Anti-anti-sigma factor

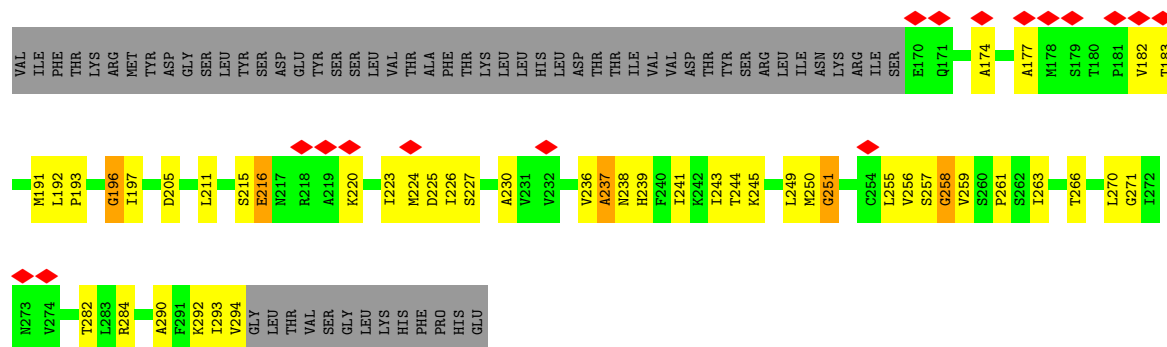


• Molecule 2: Anti-anti-sigma factor

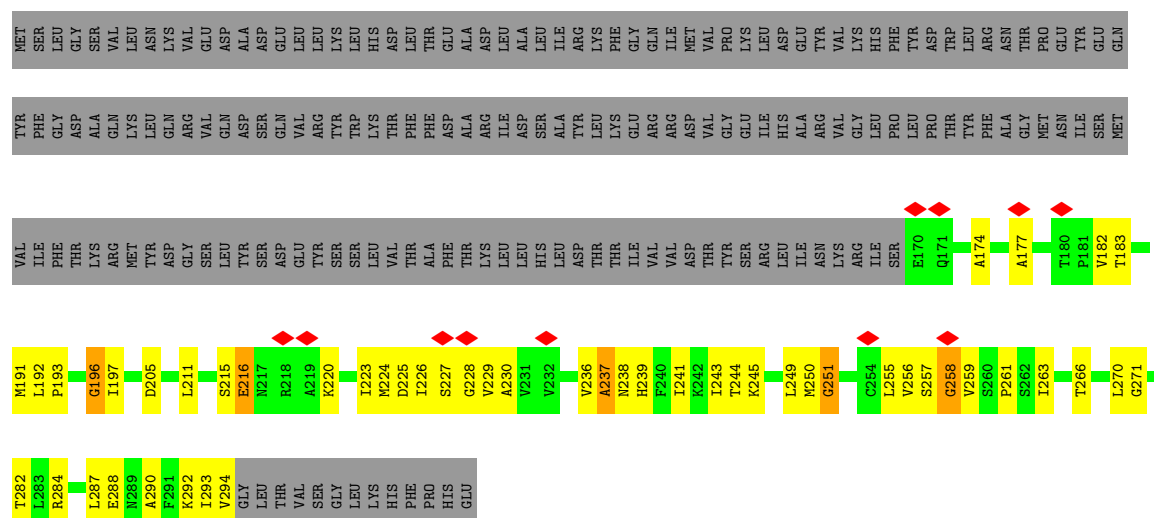


• Molecule 2: Anti-anti-sigma factor

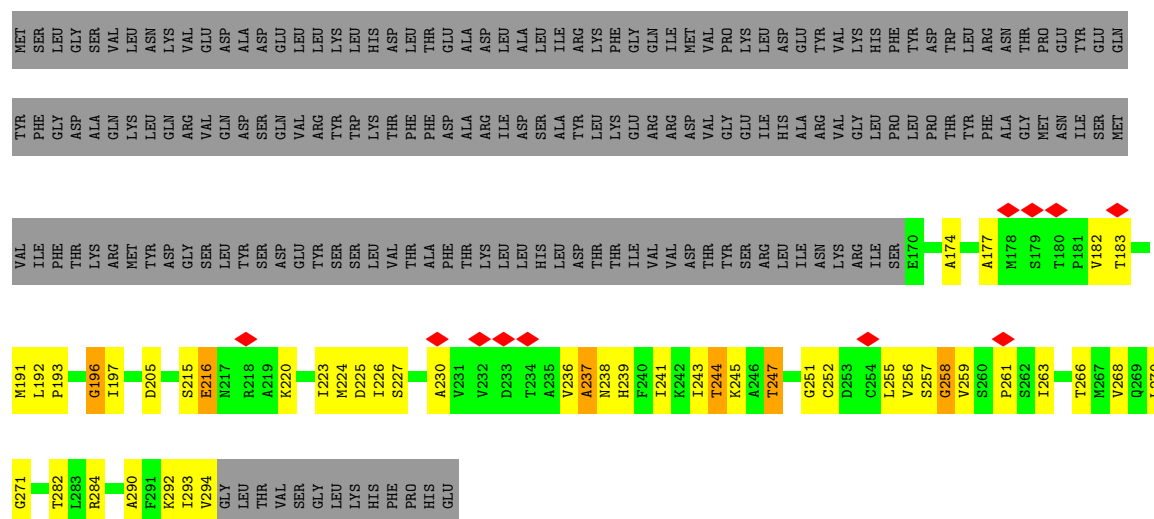




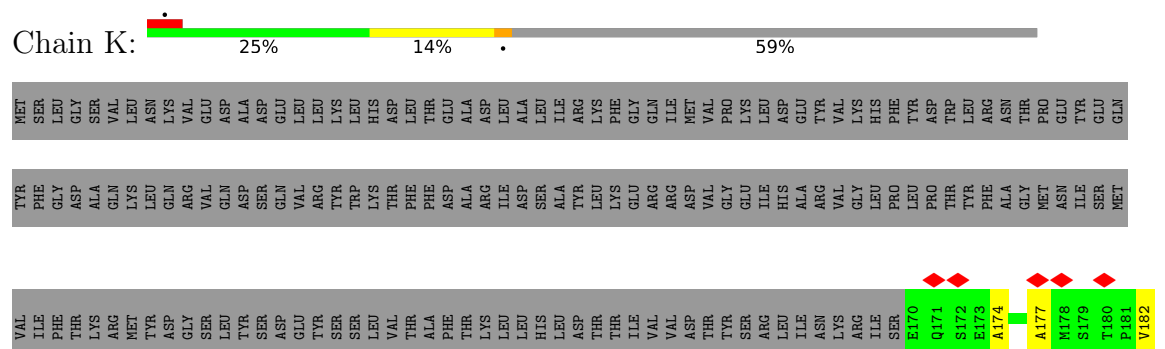
• Molecule 2: Anti-anti-sigma factor



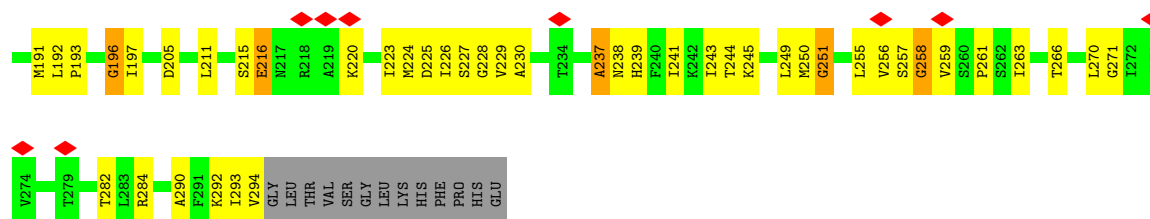
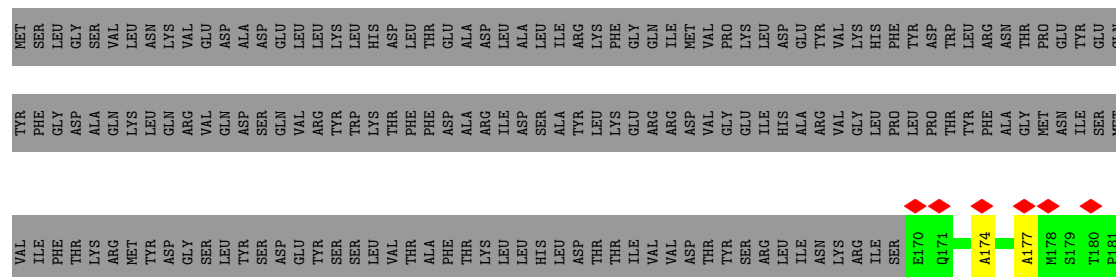
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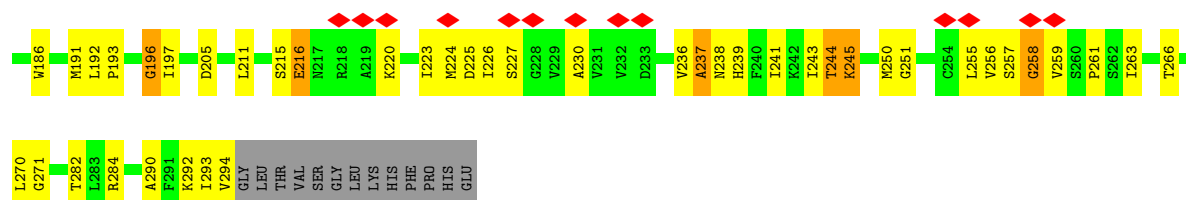
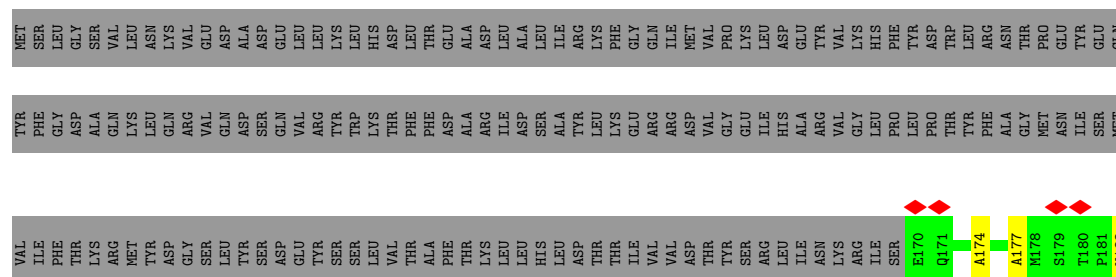
• Molecule 2: Anti-anti-sigma factor



- Molecule 2: Anti-anti-sigma factor

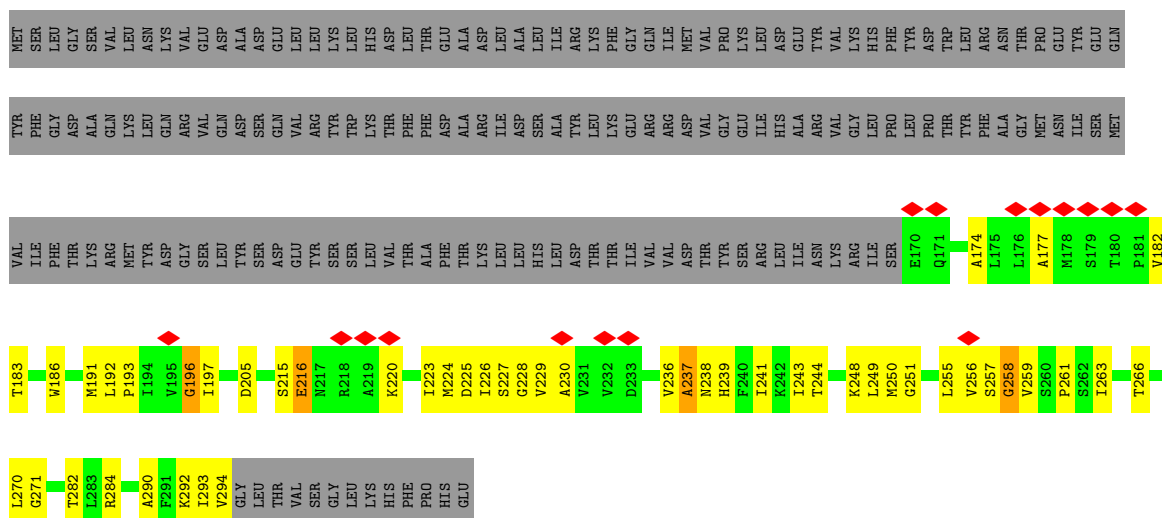


- Molecule 2: Anti-anti-sigma factor

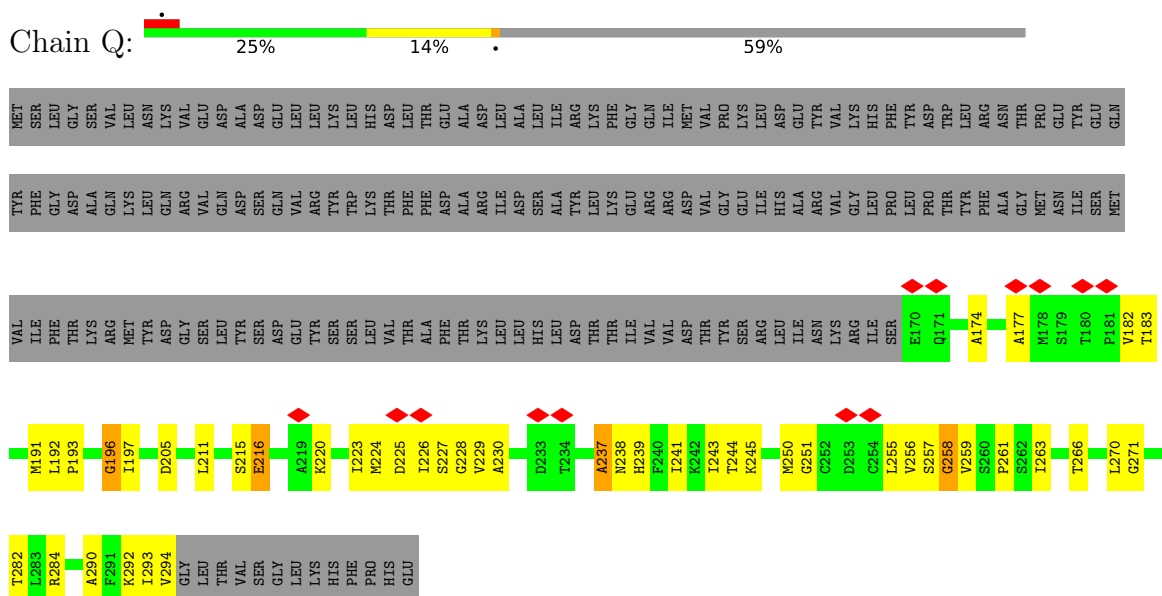


- Molecule 2: Anti-anti-sigma factor

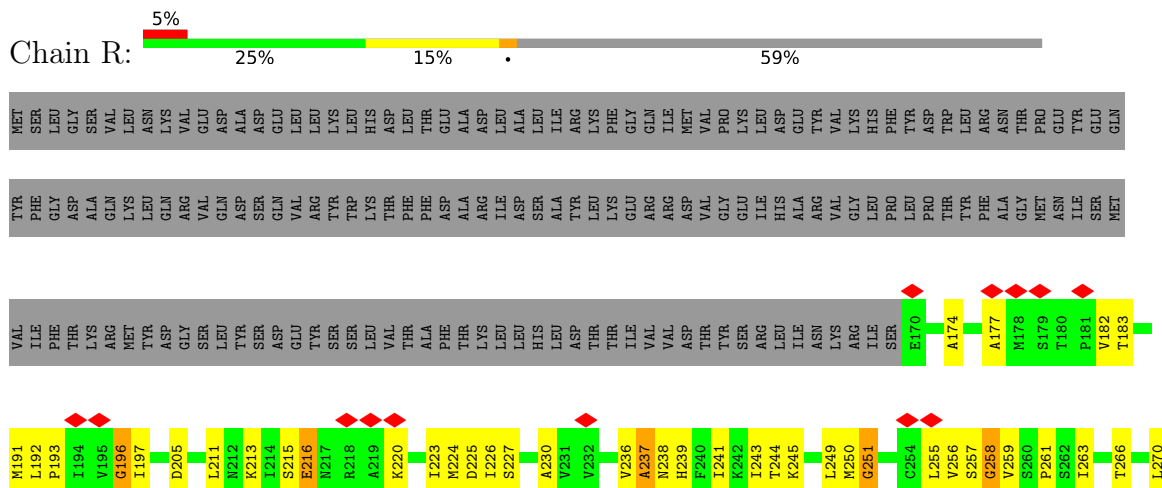




- Molecule 2: Anti-anti-sigma factor



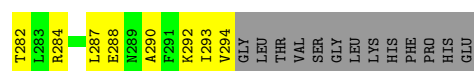
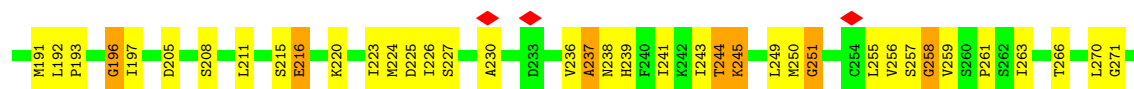
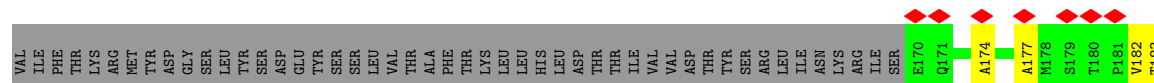
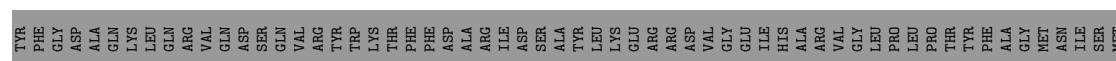
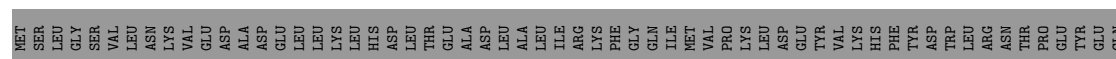
- Molecule 2: Anti-anti-sigma factor





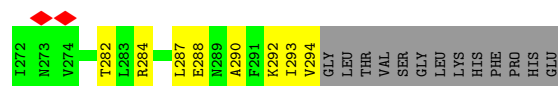
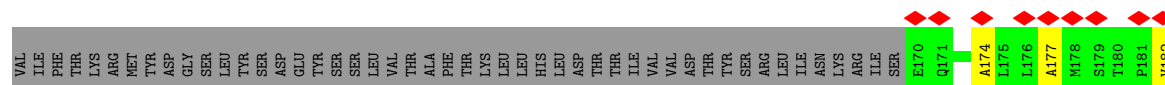
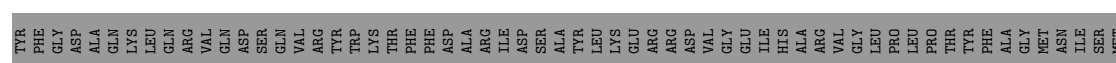
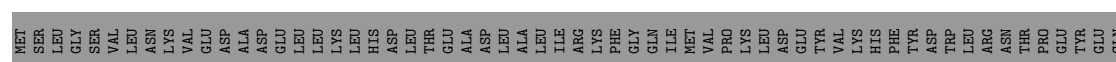
- Molecule 2: Anti-anti-sigma factor

Chain S: 25% 14% 59%



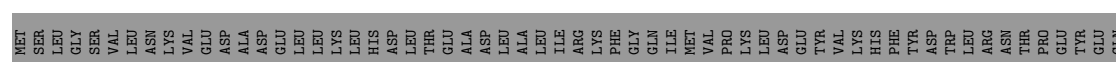
- Molecule 2: Anti-anti-sigma factor

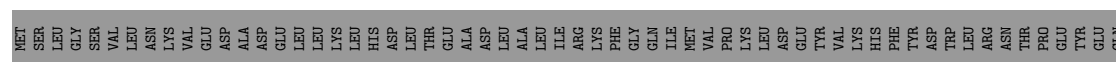
Chain T: 6% 25% 14% 59%

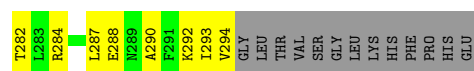


- Molecule 2: Anti-anti-sigma factor

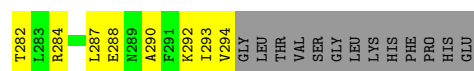
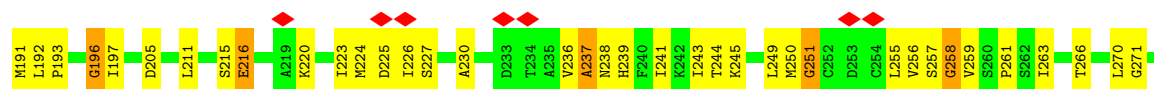
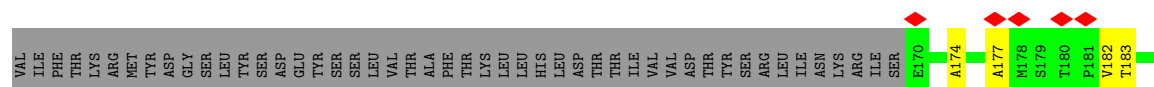
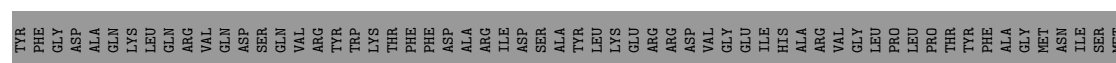
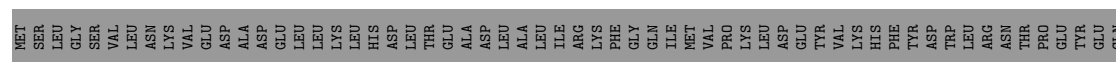
Chain U: 25% 14% 59%



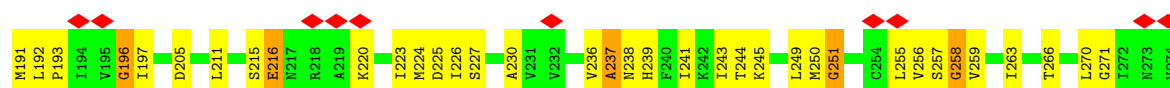
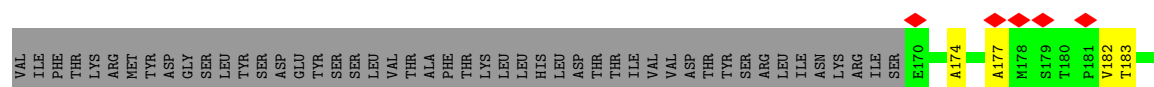
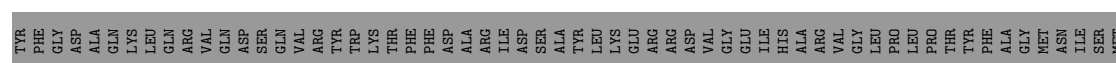
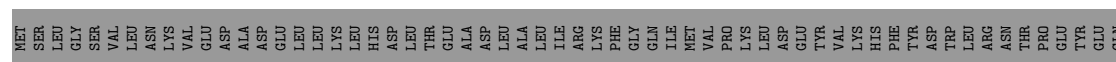




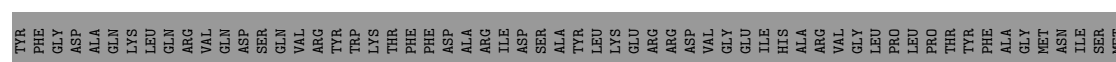
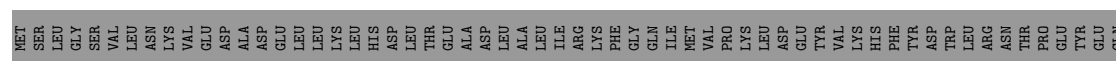
• Molecule 2: Anti-anti-sigma factor

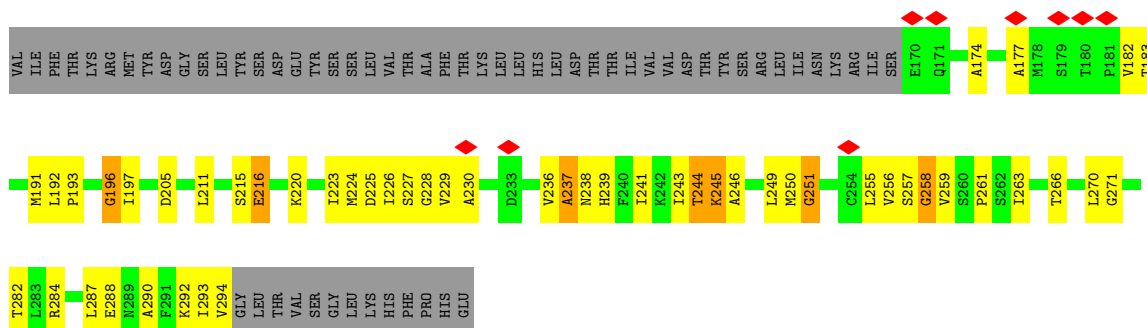


• Molecule 2: Anti-anti-sigma factor

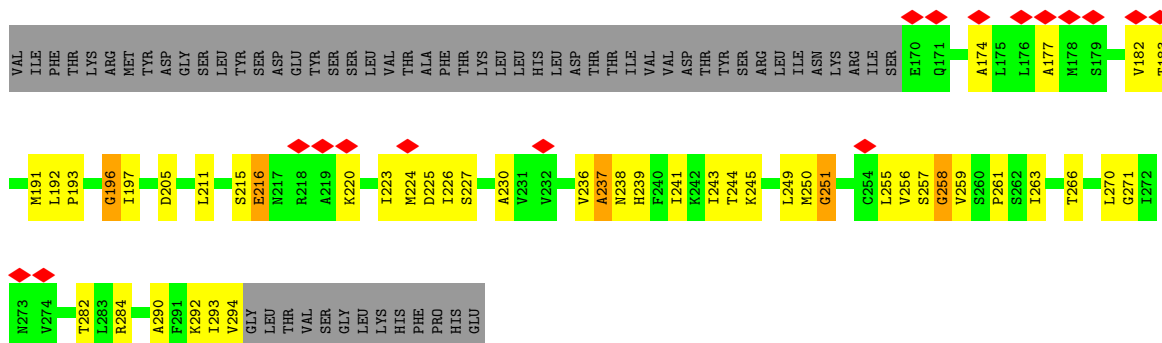
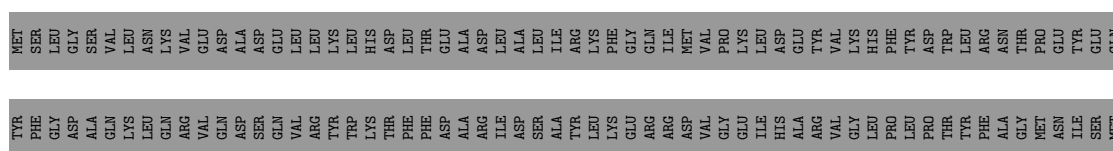


• Molecule 2: Anti-anti-sigma factor

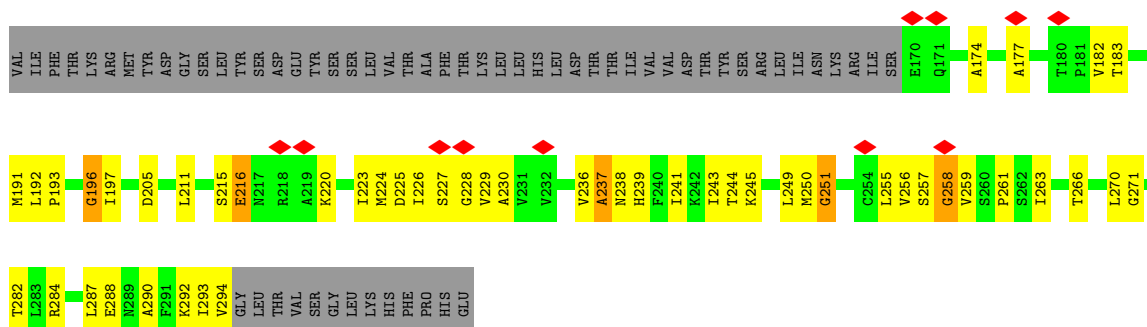
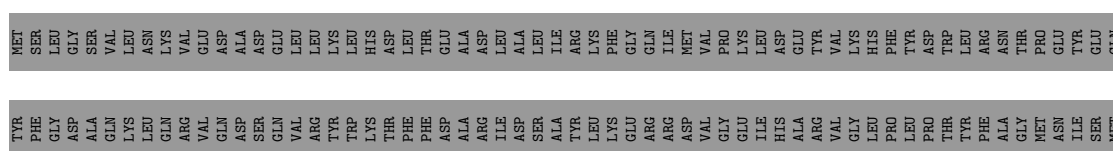




- Molecule 2: Anti-anti-sigma factor

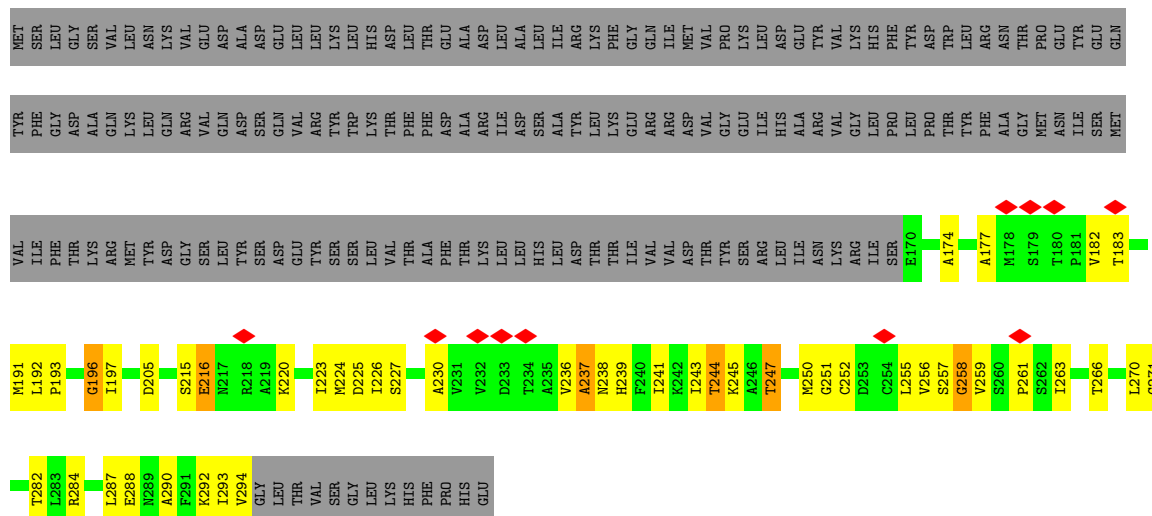


- Molecule 2: Anti-anti-sigma factor



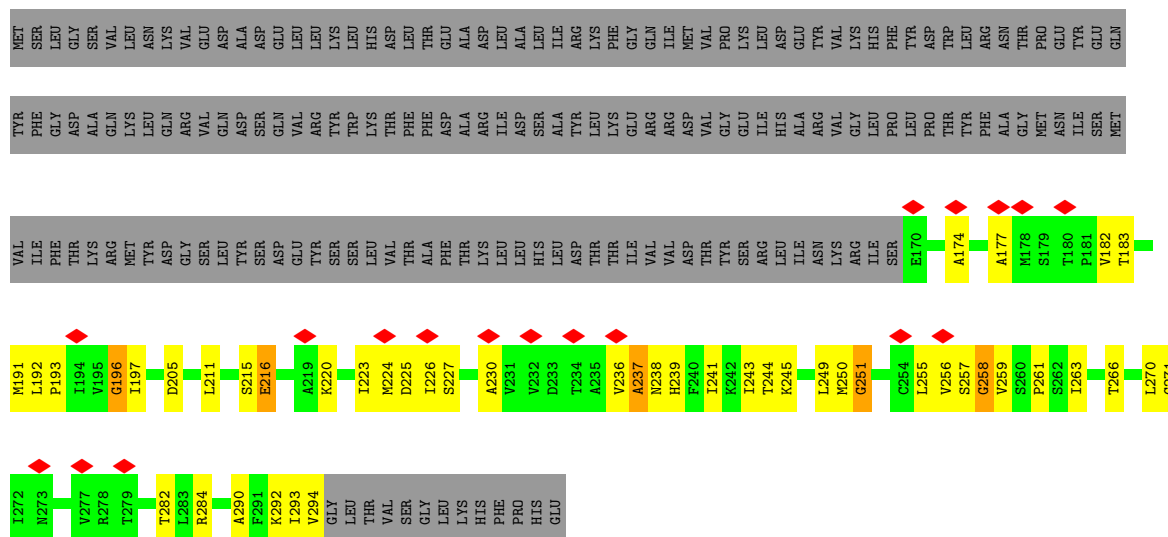
- Molecule 2: Anti-anti-sigma factor

Chain m:  25% 14% 59%



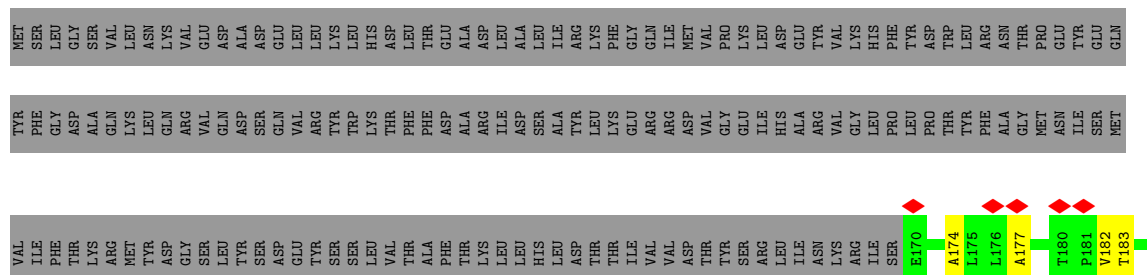
• Molecule 2: Anti-anti-sigma factor

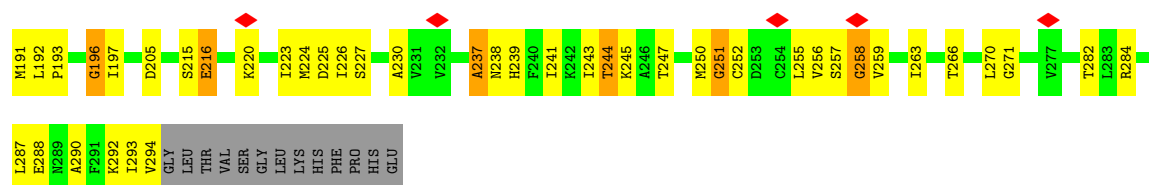
Chain n:  6% 25% 14% 59%



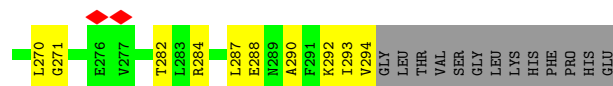
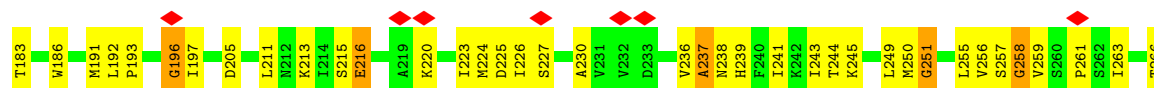
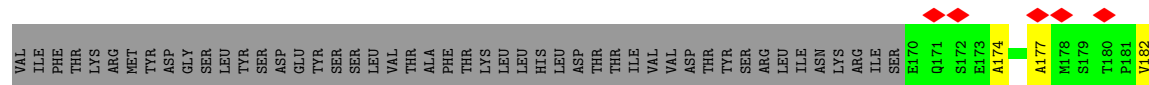
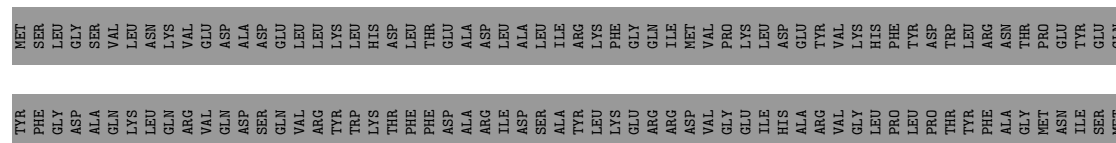
• Molecule 2: Anti-anti-sigma factor

Chain o:  25% 13% 59%

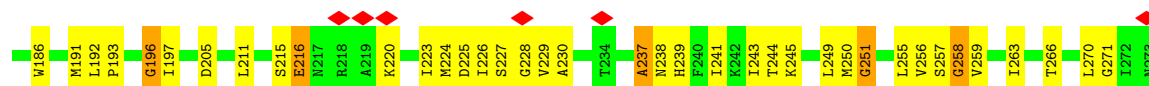
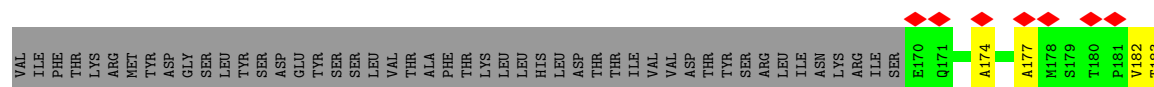
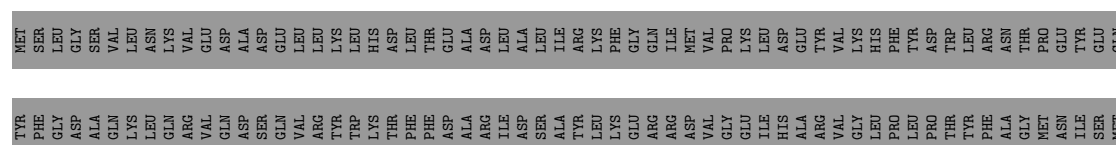




• Molecule 2: Anti-anti-sigma factor

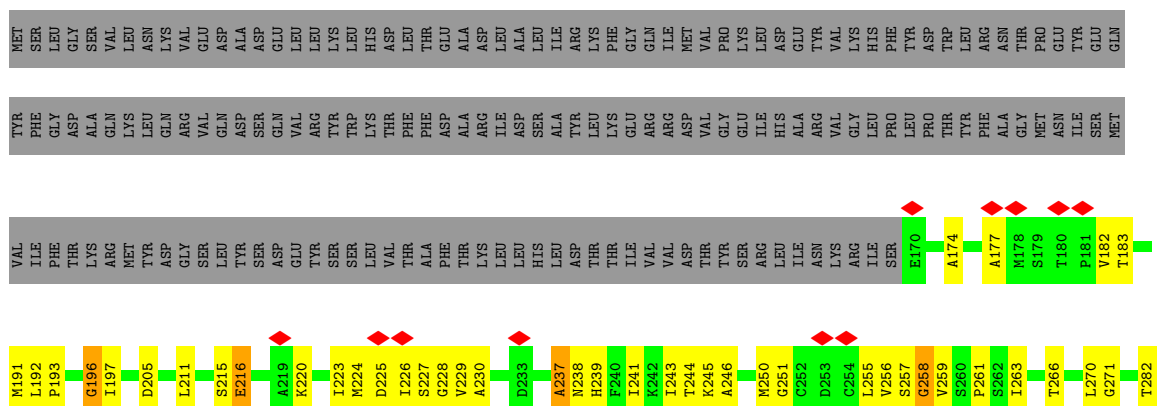


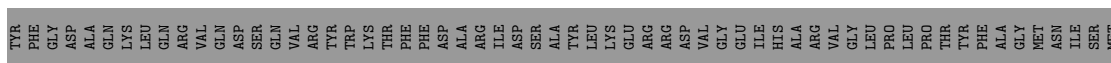
• Molecule 2: Anti-anti-sigma factor



• Molecule 2: Anti-anti-sigma factor

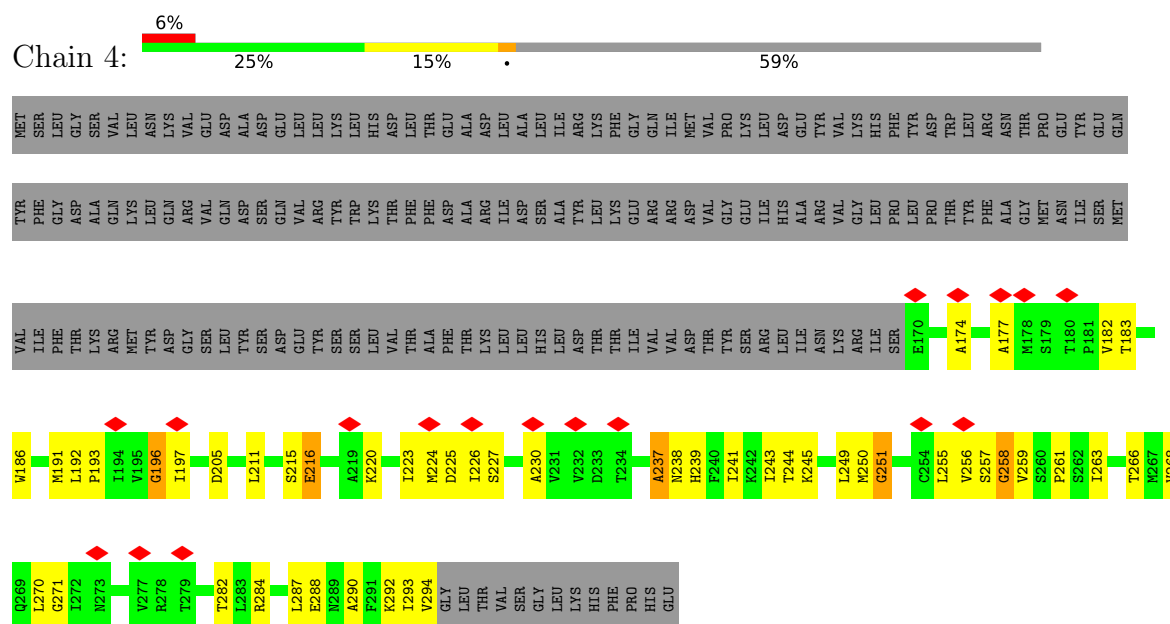




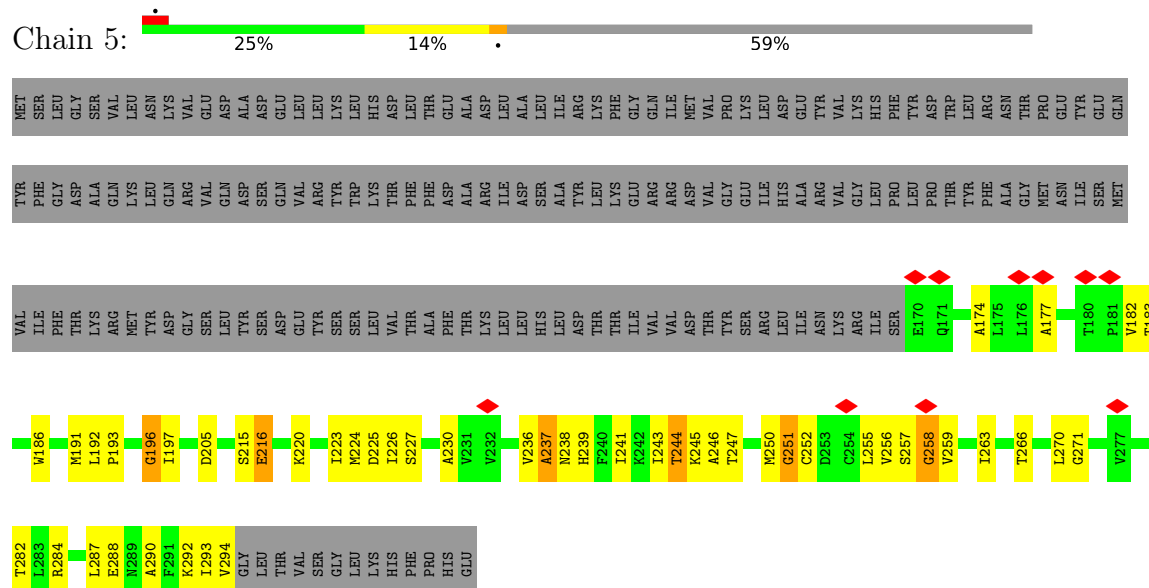




- Molecule 2: Anti-anti-sigma factor



- Molecule 2: Anti-anti-sigma factor



- Molecule 2: Anti-anti-sigma factor







4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D2	Depositor
Number of particles used	35647	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	72	Depositor
Minimum defocus (nm)	1700	Depositor
Maximum defocus (nm)	5500	Depositor
Magnification	59000	Depositor
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.446	Depositor
Minimum map value	-0.171	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.020	Depositor
Recommended contour level	0.13	Depositor
Map size ($\text{\AA}$)	442.5, 442.5, 442.5	wwPDB
Map dimensions	250, 250, 250	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.77, 1.77, 1.77	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	A	1.14	1/555 (0.2%)	2.10	17/770 (2.2%)
1	D	1.14	1/555 (0.2%)	2.11	18/770 (2.3%)
1	O	1.13	1/555 (0.2%)	2.10	18/770 (2.3%)
1	P	1.14	1/555 (0.2%)	2.11	17/770 (2.2%)
1	a	1.13	1/555 (0.2%)	2.10	17/770 (2.2%)
1	b	1.13	1/555 (0.2%)	2.10	17/770 (2.2%)
1	e	1.13	1/555 (0.2%)	2.10	19/770 (2.5%)
1	f	1.13	1/555 (0.2%)	2.10	17/770 (2.2%)
1	g	1.13	1/555 (0.2%)	2.10	17/770 (2.2%)
1	t	1.14	1/555 (0.2%)	2.10	19/770 (2.5%)
1	u	1.13	1/555 (0.2%)	2.10	17/770 (2.2%)
1	v	1.14	1/555 (0.2%)	2.11	18/770 (2.3%)
2	1	1.17	0/618	2.09	20/860 (2.3%)
2	2	1.16	0/618	2.07	19/860 (2.2%)
2	4	1.16	0/618	2.10	20/860 (2.3%)
2	5	1.17	0/618	2.07	17/860 (2.0%)
2	6	1.17	0/618	2.10	21/860 (2.4%)
2	7	1.16	0/618	2.10	21/860 (2.4%)
2	8	1.16	0/618	2.09	20/860 (2.3%)
2	9	1.16	0/618	2.06	19/860 (2.2%)
2	B	1.17	0/618	2.09	20/860 (2.3%)
2	C	1.16	0/618	2.10	20/860 (2.3%)
2	E	1.16	0/618	2.10	20/860 (2.3%)
2	F	1.17	0/618	2.10	20/860 (2.3%)
2	G	1.16	0/618	2.09	20/860 (2.3%)
2	H	1.17	0/618	2.08	18/860 (2.1%)
2	I	1.17	0/618	2.09	21/860 (2.4%)
2	J	1.17	0/618	2.06	17/860 (2.0%)
2	K	1.16	0/618	2.09	20/860 (2.3%)
2	L	1.16	0/618	2.09	20/860 (2.3%)
2	M	1.17	0/618	2.10	20/860 (2.3%)
2	N	1.16	0/618	2.07	19/860 (2.2%)
2	Q	1.16	0/618	2.09	20/860 (2.3%)
2	R	1.17	0/618	2.09	21/860 (2.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	S	1.16	0/618	2.09	21/860 (2.4%)
2	T	1.17	0/618	2.09	20/860 (2.3%)
2	U	1.16	0/618	2.09	21/860 (2.4%)
2	V	1.17	0/618	2.08	20/860 (2.3%)
2	W	1.17	0/618	2.09	20/860 (2.3%)
2	X	1.17	0/618	2.07	18/860 (2.1%)
2	Y	1.16	0/618	2.09	20/860 (2.3%)
2	Z	1.16	0/618	2.09	21/860 (2.4%)
2	c	1.16	0/618	2.09	20/860 (2.3%)
2	d	1.16	0/618	2.06	19/860 (2.2%)
2	h	1.16	0/618	2.09	20/860 (2.3%)
2	i	1.16	0/618	2.09	20/860 (2.3%)
2	j	1.17	0/618	2.09	20/860 (2.3%)
2	k	1.16	0/618	2.10	20/860 (2.3%)
2	l	1.16	0/618	2.10	20/860 (2.3%)
2	m	1.17	0/618	2.08	19/860 (2.2%)
2	n	1.16	0/618	2.10	20/860 (2.3%)
2	o	1.17	0/618	2.07	17/860 (2.0%)
2	p	1.16	0/618	2.09	21/860 (2.4%)
2	q	1.16	0/618	2.10	20/860 (2.3%)
2	r	1.16	0/618	2.09	20/860 (2.3%)
2	s	1.16	0/618	2.07	19/860 (2.2%)
2	w	1.17	0/618	2.10	20/860 (2.3%)
2	x	1.16	0/618	2.10	20/860 (2.3%)
2	y	1.17	0/618	2.10	20/860 (2.3%)
2	z	1.16	0/618	2.09	20/860 (2.3%)
All	All	1.16	12/36324 (0.0%)	2.09	1160/50520 (2.3%)

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b	87	VAL	C-O	-6.78	1.16	1.24
1	f	87	VAL	C-O	-6.74	1.16	1.24
1	D	87	VAL	C-O	-6.73	1.16	1.24
1	P	87	VAL	C-O	-6.72	1.16	1.24
1	O	87	VAL	C-O	-6.71	1.16	1.24
1	g	87	VAL	C-O	-6.70	1.16	1.24
1	t	87	VAL	C-O	-6.70	1.16	1.24
1	a	87	VAL	C-O	-6.69	1.16	1.24
1	u	87	VAL	C-O	-6.69	1.16	1.24
1	e	87	VAL	C-O	-6.68	1.16	1.24
1	A	87	VAL	C-O	-6.68	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	v	87	VAL	C-O	-6.67	1.16	1.24

All (1160) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	293	ILE	N-CA-C	-10.06	99.92	113.00
2	x	293	ILE	N-CA-C	-10.05	99.94	113.00
2	R	293	ILE	N-CA-C	-10.04	99.94	113.00
2	q	293	ILE	N-CA-C	-10.04	99.94	113.00
2	8	293	ILE	N-CA-C	-10.04	99.94	113.00
2	k	293	ILE	N-CA-C	-10.03	99.96	113.00
2	W	293	ILE	N-CA-C	-10.03	99.96	113.00
2	y	293	ILE	N-CA-C	-10.03	99.97	113.00
2	4	293	ILE	N-CA-C	-10.03	99.97	113.00
2	T	293	ILE	N-CA-C	-10.02	99.97	113.00
2	E	293	ILE	N-CA-C	-10.02	99.97	113.00
2	U	293	ILE	N-CA-C	-10.02	99.97	113.00
2	Z	293	ILE	N-CA-C	-10.02	99.97	113.00
2	r	293	ILE	N-CA-C	-10.02	99.98	113.00
2	2	293	ILE	N-CA-C	-10.02	99.98	113.00
2	d	293	ILE	N-CA-C	-10.02	99.98	113.00
2	J	293	ILE	N-CA-C	-10.01	99.98	113.00
2	m	293	ILE	N-CA-C	-10.01	99.98	113.00
2	F	293	ILE	N-CA-C	-10.01	99.99	113.00
2	B	293	ILE	N-CA-C	-10.01	99.99	113.00
2	p	293	ILE	N-CA-C	-10.01	99.99	113.00
2	H	293	ILE	N-CA-C	-10.01	99.99	113.00
2	j	293	ILE	N-CA-C	-10.01	99.99	113.00
2	5	293	ILE	N-CA-C	-10.01	99.99	113.00
2	V	293	ILE	N-CA-C	-10.00	100.00	113.00
2	h	293	ILE	N-CA-C	-10.00	100.00	113.00
2	s	293	ILE	N-CA-C	-10.00	100.00	113.00
2	C	293	ILE	N-CA-C	-10.00	100.00	113.00
2	Q	293	ILE	N-CA-C	-10.00	100.00	113.00
2	i	293	ILE	N-CA-C	-10.00	100.00	113.00
2	n	293	ILE	N-CA-C	-10.00	100.00	113.00
2	7	293	ILE	N-CA-C	-10.00	100.00	113.00
2	9	293	ILE	N-CA-C	-10.00	100.00	113.00
2	o	293	ILE	N-CA-C	-10.00	100.00	113.00
2	I	293	ILE	N-CA-C	-9.99	100.01	113.00
2	X	293	ILE	N-CA-C	-9.99	100.01	113.00
2	Y	293	ILE	N-CA-C	-9.99	100.01	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	6	293	ILE	N-CA-C	-9.99	100.01	113.00
2	S	293	ILE	N-CA-C	-9.99	100.02	113.00
2	1	293	ILE	N-CA-C	-9.99	100.02	113.00
2	c	293	ILE	N-CA-C	-9.98	100.02	113.00
2	l	293	ILE	N-CA-C	-9.98	100.02	113.00
2	G	293	ILE	N-CA-C	-9.98	100.02	113.00
2	z	293	ILE	N-CA-C	-9.98	100.02	113.00
2	L	293	ILE	N-CA-C	-9.98	100.03	113.00
2	M	293	ILE	N-CA-C	-9.98	100.03	113.00
2	N	293	ILE	N-CA-C	-9.97	100.03	113.00
2	w	293	ILE	N-CA-C	-9.96	100.05	113.00
1	P	74	MET	N-CA-C	-9.92	98.35	111.74
1	e	74	MET	N-CA-C	-9.91	98.36	111.74
1	b	74	MET	N-CA-C	-9.90	98.37	111.74
1	D	74	MET	N-CA-C	-9.90	98.38	111.74
1	O	74	MET	N-CA-C	-9.88	98.39	111.74
1	f	74	MET	N-CA-C	-9.89	98.39	111.74
1	u	74	MET	N-CA-C	-9.88	98.40	111.74
1	A	74	MET	N-CA-C	-9.88	98.40	111.74
1	a	74	MET	N-CA-C	-9.88	98.40	111.74
1	g	74	MET	N-CA-C	-9.88	98.40	111.74
1	v	74	MET	N-CA-C	-9.87	98.42	111.74
1	t	74	MET	N-CA-C	-9.86	98.43	111.74
2	m	251	GLY	N-CA-C	-9.30	102.16	115.27
2	2	251	GLY	N-CA-C	-9.15	102.36	115.27
2	V	251	GLY	N-CA-C	-8.93	102.14	115.00
1	D	112	LEU	N-CA-C	-8.78	101.71	111.28
1	A	112	LEU	N-CA-C	-8.78	101.71	111.28
1	f	112	LEU	N-CA-C	-8.78	101.71	111.28
1	a	112	LEU	N-CA-C	-8.78	101.72	111.28
1	O	112	LEU	N-CA-C	-8.77	101.72	111.28
1	b	112	LEU	N-CA-C	-8.77	101.72	111.28
1	e	112	LEU	N-CA-C	-8.77	101.72	111.28
1	v	112	LEU	N-CA-C	-8.76	101.73	111.28
2	H	251	GLY	N-CA-C	-8.76	102.92	115.27
1	P	112	LEU	N-CA-C	-8.74	101.75	111.28
1	u	112	LEU	N-CA-C	-8.74	101.75	111.28
1	g	112	LEU	N-CA-C	-8.74	101.75	111.28
1	t	112	LEU	N-CA-C	-8.73	101.76	111.28
2	k	251	GLY	N-CA-C	-8.64	103.08	115.27
2	R	251	GLY	N-CA-C	-8.63	103.10	115.27
2	x	251	GLY	N-CA-C	-8.63	103.11	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Y	251	GLY	N-CA-C	-8.62	103.11	115.27
2	c	251	GLY	N-CA-C	-8.62	103.12	115.27
2	p	251	GLY	N-CA-C	-8.62	103.12	115.27
2	S	251	GLY	N-CA-C	-8.62	103.12	115.27
2	h	251	GLY	N-CA-C	-8.61	103.12	115.27
2	K	251	GLY	N-CA-C	-8.61	103.13	115.27
2	y	251	GLY	N-CA-C	-8.61	103.13	115.27
2	n	251	GLY	N-CA-C	-8.61	103.13	115.27
2	Q	251	GLY	N-CA-C	-8.60	103.14	115.27
2	E	251	GLY	N-CA-C	-8.60	103.14	115.27
2	W	251	GLY	N-CA-C	-8.60	103.14	115.27
2	U	251	GLY	N-CA-C	-8.60	103.15	115.27
2	r	251	GLY	N-CA-C	-8.60	103.15	115.27
2	7	251	GLY	N-CA-C	-8.60	103.15	115.27
2	1	251	GLY	N-CA-C	-8.60	103.15	115.27
2	G	251	GLY	N-CA-C	-8.59	103.15	115.27
2	I	251	GLY	N-CA-C	-8.59	103.16	115.27
2	j	251	GLY	N-CA-C	-8.59	103.16	115.27
2	8	251	GLY	N-CA-C	-8.59	103.16	115.27
2	B	251	GLY	N-CA-C	-8.59	103.16	115.27
2	6	251	GLY	N-CA-C	-8.59	103.16	115.27
2	F	251	GLY	N-CA-C	-8.58	103.17	115.27
2	i	251	GLY	N-CA-C	-8.58	103.17	115.27
2	T	251	GLY	N-CA-C	-8.58	103.18	115.27
2	4	251	GLY	N-CA-C	-8.58	103.17	115.27
2	M	251	GLY	N-CA-C	-8.57	103.18	115.27
2	L	251	GLY	N-CA-C	-8.57	103.18	115.27
2	w	251	GLY	N-CA-C	-8.57	103.18	115.27
2	l	251	GLY	N-CA-C	-8.56	103.19	115.27
2	C	251	GLY	N-CA-C	-8.56	103.20	115.27
2	q	251	GLY	N-CA-C	-8.56	103.20	115.27
2	z	251	GLY	N-CA-C	-8.56	103.20	115.27
2	Z	251	GLY	N-CA-C	-8.54	103.22	115.27
2	X	251	GLY	N-CA-C	-8.38	102.94	115.00
1	b	114	LEU	N-CA-C	8.23	119.87	111.07
1	t	114	LEU	N-CA-C	8.21	119.85	111.07
1	A	114	LEU	N-CA-C	8.18	119.83	111.07
1	g	114	LEU	N-CA-C	8.18	119.82	111.07
1	O	114	LEU	N-CA-C	8.18	119.82	111.07
1	a	114	LEU	N-CA-C	8.17	119.81	111.07
1	u	114	LEU	N-CA-C	8.17	119.81	111.07
1	v	114	LEU	N-CA-C	8.17	119.81	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	114	LEU	N-CA-C	8.16	119.81	111.07
1	f	114	LEU	N-CA-C	8.16	119.81	111.07
1	P	114	LEU	N-CA-C	8.15	119.79	111.07
1	e	114	LEU	N-CA-C	8.14	119.78	111.07
2	J	251	GLY	N-CA-C	-7.84	103.71	115.00
2	5	251	GLY	N-CA-C	-7.71	103.90	115.00
2	o	251	GLY	N-CA-C	-7.50	104.20	115.00
2	R	263	ILE	N-CA-C	-7.26	103.45	110.42
2	E	263	ILE	N-CA-C	-7.23	103.48	110.42
2	6	263	ILE	N-CA-C	-7.22	103.49	110.42
2	N	263	ILE	N-CA-C	-7.21	103.50	110.42
2	K	263	ILE	N-CA-C	-7.21	103.50	110.42
2	i	263	ILE	N-CA-C	-7.21	103.50	110.42
2	J	263	ILE	N-CA-C	-7.20	103.50	110.42
2	8	263	ILE	N-CA-C	-7.20	103.50	110.42
2	o	263	ILE	N-CA-C	-7.20	103.51	110.42
2	s	263	ILE	N-CA-C	-7.20	103.51	110.42
2	L	263	ILE	N-CA-C	-7.20	103.51	110.42
2	h	263	ILE	N-CA-C	-7.20	103.51	110.42
2	n	263	ILE	N-CA-C	-7.20	103.51	110.42
2	p	263	ILE	N-CA-C	-7.20	103.51	110.42
2	5	263	ILE	N-CA-C	-7.20	103.51	110.42
2	H	263	ILE	N-CA-C	-7.19	103.51	110.42
2	m	263	ILE	N-CA-C	-7.19	103.52	110.42
2	w	263	ILE	N-CA-C	-7.19	103.52	110.42
2	z	263	ILE	N-CA-C	-7.19	103.52	110.42
2	B	263	ILE	N-CA-C	-7.18	103.52	110.42
2	Z	263	ILE	N-CA-C	-7.18	103.53	110.42
2	k	263	ILE	N-CA-C	-7.18	103.53	110.42
2	y	263	ILE	N-CA-C	-7.18	103.53	110.42
2	F	263	ILE	N-CA-C	-7.18	103.53	110.42
2	7	263	ILE	N-CA-C	-7.18	103.53	110.42
2	d	263	ILE	N-CA-C	-7.18	103.53	110.42
2	j	263	ILE	N-CA-C	-7.18	103.53	110.42
2	Y	263	ILE	N-CA-C	-7.17	103.53	110.42
2	4	263	ILE	N-CA-C	-7.17	103.53	110.42
2	o	250	MET	N-CA-C	-7.17	103.47	111.28
2	Q	263	ILE	N-CA-C	-7.17	103.54	110.42
2	T	263	ILE	N-CA-C	-7.17	103.54	110.42
2	l	263	ILE	N-CA-C	-7.17	103.54	110.42
2	S	263	ILE	N-CA-C	-7.17	103.54	110.42
2	2	263	ILE	N-CA-C	-7.16	103.54	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	9	263	ILE	N-CA-C	-7.16	103.54	110.42
2	C	263	ILE	N-CA-C	-7.16	103.55	110.42
2	V	263	ILE	N-CA-C	-7.16	103.55	110.42
2	X	263	ILE	N-CA-C	-7.16	103.55	110.42
2	r	263	ILE	N-CA-C	-7.16	103.55	110.42
2	c	263	ILE	N-CA-C	-7.16	103.55	110.42
2	I	263	ILE	N-CA-C	-7.15	103.55	110.42
2	U	263	ILE	N-CA-C	-7.15	103.56	110.42
2	W	263	ILE	N-CA-C	-7.15	103.56	110.42
2	q	263	ILE	N-CA-C	-7.14	103.56	110.42
2	x	263	ILE	N-CA-C	-7.14	103.57	110.42
2	G	263	ILE	N-CA-C	-7.13	103.57	110.42
2	M	263	ILE	N-CA-C	-7.13	103.57	110.42
1	t	25	SER	N-CA-C	-7.12	103.85	112.54
1	D	25	SER	N-CA-C	-7.12	103.86	112.54
2	1	263	ILE	N-CA-C	-7.12	103.59	110.42
1	b	25	SER	N-CA-C	-7.12	103.86	112.54
1	O	25	SER	N-CA-C	-7.11	103.87	112.54
1	a	25	SER	N-CA-C	-7.11	103.87	112.54
1	P	25	SER	N-CA-C	-7.10	103.88	112.54
1	e	25	SER	N-CA-C	-7.10	103.87	112.54
1	v	25	SER	N-CA-C	-7.10	103.88	112.54
1	u	25	SER	N-CA-C	-7.09	103.89	112.54
1	g	25	SER	N-CA-C	-7.08	103.90	112.54
1	A	25	SER	N-CA-C	-7.08	103.91	112.54
1	f	25	SER	N-CA-C	-7.08	103.91	112.54
2	5	250	MET	N-CA-C	-6.79	103.88	111.28
1	u	60	SER	N-CA-C	-6.76	103.94	111.71
1	f	60	SER	N-CA-C	-6.74	103.95	111.71
2	s	251	GLY	N-CA-C	-6.74	105.44	114.95
1	A	60	SER	N-CA-C	-6.74	103.96	111.71
1	g	60	SER	N-CA-C	-6.74	103.96	111.71
1	P	60	SER	N-CA-C	-6.72	103.98	111.71
1	a	60	SER	N-CA-C	-6.72	103.98	111.71
2	V	247	THR	CB-CA-C	-6.72	99.63	110.79
2	J	250	MET	N-CA-C	-6.72	103.96	111.28
1	D	60	SER	N-CA-C	-6.72	103.99	111.71
1	b	60	SER	N-CA-C	-6.71	104.00	111.71
1	O	60	SER	N-CA-C	-6.71	104.00	111.71
1	t	60	SER	N-CA-C	-6.71	104.00	111.71
1	e	60	SER	N-CA-C	-6.71	104.00	111.71
1	v	60	SER	N-CA-C	-6.70	104.00	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	73	VAL	N-CA-C	-6.69	103.80	110.62
1	b	73	VAL	N-CA-C	-6.68	103.81	110.62
1	O	73	VAL	N-CA-C	-6.68	103.81	110.62
1	g	73	VAL	N-CA-C	-6.68	103.81	110.62
1	P	73	VAL	N-CA-C	-6.67	103.81	110.62
2	N	249	LEU	N-CA-C	-6.67	104.09	111.36
1	A	73	VAL	N-CA-C	-6.66	103.83	110.62
1	a	73	VAL	N-CA-C	-6.65	103.84	110.62
1	e	73	VAL	N-CA-C	-6.64	103.84	110.62
1	v	73	VAL	N-CA-C	-6.64	103.85	110.62
1	t	73	VAL	N-CA-C	-6.64	103.85	110.62
1	f	73	VAL	N-CA-C	-6.63	103.86	110.62
2	9	249	LEU	N-CA-C	-6.63	104.14	111.36
1	u	73	VAL	N-CA-C	-6.63	103.86	110.62
2	H	247	THR	CB-CA-C	-6.56	99.91	110.79
2	N	251	GLY	N-CA-C	-6.40	105.92	114.95
2	s	249	LEU	N-CA-C	-6.39	104.39	111.36
2	R	244	THR	N-CA-C	-6.38	104.32	111.28
2	d	251	GLY	N-CA-C	-6.38	105.96	114.95
2	d	249	LEU	N-CA-C	-6.37	104.42	111.36
2	i	244	THR	N-CA-C	-6.36	104.34	111.28
2	q	244	THR	N-CA-C	-6.36	104.35	111.28
2	j	244	THR	N-CA-C	-6.36	104.35	111.28
2	W	244	THR	N-CA-C	-6.35	104.35	111.28
2	S	244	THR	N-CA-C	-6.35	104.36	111.28
2	h	244	THR	N-CA-C	-6.35	104.36	111.28
2	y	244	THR	N-CA-C	-6.35	104.36	111.28
2	4	244	THR	N-CA-C	-6.35	104.36	111.28
2	l	244	THR	N-CA-C	-6.34	104.36	111.28
2	F	244	THR	N-CA-C	-6.34	104.37	111.28
2	I	244	THR	N-CA-C	-6.34	104.37	111.28
2	p	244	THR	N-CA-C	-6.34	104.37	111.28
2	x	244	THR	N-CA-C	-6.34	104.37	111.28
2	M	244	THR	N-CA-C	-6.33	104.38	111.28
2	U	244	THR	N-CA-C	-6.33	104.38	111.28
2	T	244	THR	N-CA-C	-6.33	104.38	111.28
2	C	244	THR	N-CA-C	-6.33	104.38	111.28
2	G	244	THR	N-CA-C	-6.33	104.38	111.28
2	r	244	THR	N-CA-C	-6.33	104.38	111.28
2	w	244	THR	N-CA-C	-6.33	104.39	111.28
2	9	251	GLY	N-CA-C	-6.33	106.03	114.95
2	z	244	THR	N-CA-C	-6.32	104.39	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	244	THR	N-CA-C	-6.32	104.39	111.28
2	Y	244	THR	N-CA-C	-6.32	104.39	111.28
2	E	244	THR	N-CA-C	-6.32	104.39	111.28
2	n	244	THR	N-CA-C	-6.32	104.39	111.28
2	Z	244	THR	N-CA-C	-6.32	104.39	111.28
2	6	244	THR	N-CA-C	-6.31	104.40	111.28
2	8	244	THR	N-CA-C	-6.31	104.40	111.28
1	t	71	VAL	N-CA-C	6.30	116.47	110.42
2	Q	244	THR	N-CA-C	-6.30	104.42	111.28
2	7	244	THR	N-CA-C	-6.30	104.42	111.28
2	k	244	THR	N-CA-C	-6.29	104.42	111.28
1	O	71	VAL	N-CA-C	6.29	116.46	110.42
2	K	244	THR	N-CA-C	-6.29	104.42	111.28
2	c	244	THR	N-CA-C	-6.29	104.43	111.28
2	V	244	THR	N-CA-C	-6.28	104.35	111.07
1	e	71	VAL	N-CA-C	6.28	116.45	110.42
2	H	244	THR	N-CA-C	-6.28	104.35	111.07
2	d	244	THR	N-CA-C	-6.27	104.36	111.07
2	m	244	THR	N-CA-C	-6.27	104.36	111.07
1	t	12	ASP	N-CA-C	-6.27	105.57	112.72
2	L	244	THR	N-CA-C	-6.27	104.45	111.28
2	m	247	THR	CB-CA-C	-6.27	100.38	110.79
1	a	71	VAL	N-CA-C	6.26	116.44	110.42
1	g	71	VAL	N-CA-C	6.26	116.44	110.42
2	W	270	LEU	N-CA-C	-6.26	105.50	113.01
2	q	270	LEU	N-CA-C	-6.26	105.50	113.01
2	k	270	LEU	N-CA-C	-6.26	105.50	113.01
2	C	270	LEU	N-CA-C	-6.26	105.50	113.01
2	R	270	LEU	N-CA-C	-6.26	105.50	113.01
2	F	270	LEU	N-CA-C	-6.26	105.50	113.01
2	J	244	THR	N-CA-C	-6.26	104.38	111.07
1	f	71	VAL	N-CA-C	6.25	116.42	110.42
1	v	71	VAL	N-CA-C	6.25	116.42	110.42
1	g	12	ASP	N-CA-C	-6.25	105.59	112.72
2	j	270	LEU	N-CA-C	-6.25	105.51	113.01
2	7	270	LEU	N-CA-C	-6.25	105.51	113.01
1	P	71	VAL	N-CA-C	6.25	116.42	110.42
2	d	270	LEU	N-CA-C	-6.25	105.51	113.01
2	l	244	THR	N-CA-C	-6.24	104.47	111.28
1	A	12	ASP	N-CA-C	-6.24	105.60	112.72
1	u	71	VAL	N-CA-C	6.24	116.41	110.42
2	i	270	LEU	N-CA-C	-6.24	105.52	113.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	x	270	LEU	N-CA-C	-6.24	105.52	113.01
1	b	71	VAL	N-CA-C	6.24	116.41	110.42
1	A	71	VAL	N-CA-C	6.24	116.41	110.42
1	D	71	VAL	N-CA-C	6.24	116.41	110.42
2	p	270	LEU	N-CA-C	-6.24	105.53	113.01
1	P	12	ASP	N-CA-C	-6.24	105.61	112.72
2	E	270	LEU	N-CA-C	-6.24	105.53	113.01
2	2	244	THR	N-CA-C	-6.24	104.40	111.07
1	e	12	ASP	N-CA-C	-6.23	105.61	112.72
2	s	244	THR	N-CA-C	-6.23	104.40	111.07
2	G	270	LEU	N-CA-C	-6.23	105.54	113.01
2	Z	270	LEU	N-CA-C	-6.23	105.53	113.01
2	Y	270	LEU	N-CA-C	-6.23	105.54	113.01
2	Q	270	LEU	N-CA-C	-6.23	105.54	113.01
2	8	270	LEU	N-CA-C	-6.23	105.54	113.01
2	m	270	LEU	N-CA-C	-6.22	105.54	113.01
1	D	12	ASP	N-CA-C	-6.22	105.63	112.72
2	M	270	LEU	N-CA-C	-6.22	105.54	113.01
2	S	270	LEU	N-CA-C	-6.22	105.54	113.01
2	U	270	LEU	N-CA-C	-6.22	105.54	113.01
2	l	270	LEU	N-CA-C	-6.22	105.55	113.01
2	s	270	LEU	N-CA-C	-6.22	105.55	113.01
2	B	270	LEU	N-CA-C	-6.22	105.55	113.01
2	w	270	LEU	N-CA-C	-6.22	105.55	113.01
2	2	270	LEU	N-CA-C	-6.22	105.55	113.01
1	a	12	ASP	N-CA-C	-6.22	105.63	112.72
2	o	244	THR	N-CA-C	-6.22	104.42	111.07
2	4	270	LEU	N-CA-C	-6.22	105.55	113.01
2	5	244	THR	N-CA-C	-6.22	104.42	111.07
1	f	12	ASP	N-CA-C	-6.21	105.64	112.72
1	v	12	ASP	N-CA-C	-6.21	105.64	112.72
2	X	250	MET	N-CA-C	-6.21	104.50	111.28
2	n	270	LEU	N-CA-C	-6.21	105.55	113.01
2	o	270	LEU	N-CA-C	-6.21	105.55	113.01
1	b	12	ASP	N-CA-C	-6.21	105.64	112.72
2	h	270	LEU	N-CA-C	-6.21	105.56	113.01
2	y	270	LEU	N-CA-C	-6.21	105.56	113.01
1	u	12	ASP	N-CA-C	-6.21	105.64	112.72
2	J	270	LEU	N-CA-C	-6.21	105.56	113.01
2	N	244	THR	N-CA-C	-6.21	104.43	111.07
2	X	270	LEU	N-CA-C	-6.21	105.56	113.01
2	H	270	LEU	N-CA-C	-6.21	105.56	113.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	9	244	THR	N-CA-C	-6.21	104.43	111.07
2	c	270	LEU	N-CA-C	-6.20	105.57	113.01
2	z	270	LEU	N-CA-C	-6.20	105.57	113.01
2	L	270	LEU	N-CA-C	-6.20	105.57	113.01
2	1	270	LEU	N-CA-C	-6.20	105.57	113.01
2	K	270	LEU	N-CA-C	-6.20	105.57	113.01
2	T	270	LEU	N-CA-C	-6.20	105.57	113.01
2	6	270	LEU	N-CA-C	-6.20	105.57	113.01
1	O	12	ASP	N-CA-C	-6.20	105.65	112.72
2	X	244	THR	N-CA-C	-6.20	104.44	111.07
2	9	270	LEU	N-CA-C	-6.20	105.57	113.01
2	5	270	LEU	N-CA-C	-6.19	105.58	113.01
2	r	270	LEU	N-CA-C	-6.19	105.58	113.01
2	V	270	LEU	N-CA-C	-6.18	105.59	113.01
2	N	270	LEU	N-CA-C	-6.18	105.59	113.01
2	I	270	LEU	N-CA-C	-6.18	105.59	113.01
2	i	237	ALA	N-CA-C	-6.16	103.51	111.02
2	V	237	ALA	N-CA-C	-6.13	103.54	111.02
2	o	237	ALA	N-CA-C	-6.12	103.55	111.02
2	q	237	ALA	N-CA-C	-6.12	103.55	111.02
2	z	237	ALA	N-CA-C	-6.12	103.56	111.02
2	U	237	ALA	N-CA-C	-6.12	103.56	111.02
2	k	237	ALA	N-CA-C	-6.12	103.56	111.02
2	5	237	ALA	N-CA-C	-6.12	103.56	111.02
2	C	237	ALA	N-CA-C	-6.11	103.56	111.02
2	Q	237	ALA	N-CA-C	-6.11	103.56	111.02
2	4	237	ALA	N-CA-C	-6.11	103.56	111.02
2	j	245	LYS	CB-CA-C	-6.11	101.29	110.88
2	n	237	ALA	N-CA-C	-6.11	103.57	111.02
2	R	245	LYS	CB-CA-C	-6.10	101.30	110.88
2	R	237	ALA	N-CA-C	-6.10	103.58	111.02
2	X	237	ALA	N-CA-C	-6.10	103.58	111.02
2	d	237	ALA	N-CA-C	-6.10	103.58	111.02
2	T	237	ALA	N-CA-C	-6.10	103.58	111.02
2	W	237	ALA	N-CA-C	-6.10	103.58	111.02
2	J	237	ALA	N-CA-C	-6.10	103.58	111.02
2	F	237	ALA	N-CA-C	-6.09	103.59	111.02
2	L	245	LYS	CB-CA-C	-6.09	101.32	110.88
2	S	245	LYS	CB-CA-C	-6.09	101.32	110.88
2	h	245	LYS	CB-CA-C	-6.09	101.32	110.88
2	j	237	ALA	N-CA-C	-6.09	103.59	111.02
2	8	237	ALA	N-CA-C	-6.09	103.59	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	8	245	LYS	CB-CA-C	-6.09	101.32	110.88
2	n	245	LYS	CB-CA-C	-6.09	101.32	110.88
2	B	237	ALA	N-CA-C	-6.09	103.60	111.02
2	I	245	LYS	CB-CA-C	-6.09	101.32	110.88
2	Z	237	ALA	N-CA-C	-6.09	103.59	111.02
2	w	237	ALA	N-CA-C	-6.09	103.59	111.02
2	E	237	ALA	N-CA-C	-6.08	103.60	111.02
2	T	245	LYS	CB-CA-C	-6.08	101.33	110.88
2	w	245	LYS	CB-CA-C	-6.08	101.33	110.88
2	y	245	LYS	CB-CA-C	-6.08	101.33	110.88
2	N	237	ALA	N-CA-C	-6.08	103.60	111.02
2	S	237	ALA	N-CA-C	-6.08	103.60	111.02
2	i	245	LYS	CB-CA-C	-6.08	101.33	110.88
2	7	237	ALA	N-CA-C	-6.08	103.60	111.02
2	l	237	ALA	N-CA-C	-6.08	103.60	111.02
2	x	237	ALA	N-CA-C	-6.08	103.60	111.02
2	C	245	LYS	CB-CA-C	-6.08	101.34	110.88
2	M	237	ALA	N-CA-C	-6.08	103.61	111.02
2	U	245	LYS	CB-CA-C	-6.08	101.34	110.88
2	s	237	ALA	N-CA-C	-6.08	103.61	111.02
2	G	237	ALA	N-CA-C	-6.08	103.61	111.02
2	z	245	LYS	CB-CA-C	-6.08	101.34	110.88
2	1	245	LYS	CB-CA-C	-6.08	101.34	110.88
2	6	237	ALA	N-CA-C	-6.08	103.61	111.02
2	9	237	ALA	N-CA-C	-6.08	103.61	111.02
2	I	237	ALA	N-CA-C	-6.07	103.61	111.02
2	c	237	ALA	N-CA-C	-6.07	103.61	111.02
2	p	245	LYS	CB-CA-C	-6.07	101.35	110.88
2	B	245	LYS	CB-CA-C	-6.07	101.35	110.88
2	E	245	LYS	CB-CA-C	-6.07	101.35	110.88
2	F	245	LYS	CB-CA-C	-6.07	101.35	110.88
2	Y	245	LYS	CB-CA-C	-6.07	101.35	110.88
2	r	237	ALA	N-CA-C	-6.07	103.61	111.02
2	H	237	ALA	N-CA-C	-6.07	103.61	111.02
2	K	245	LYS	CB-CA-C	-6.07	101.36	110.88
2	M	245	LYS	CB-CA-C	-6.07	101.35	110.88
2	c	245	LYS	CB-CA-C	-6.07	101.35	110.88
2	l	245	LYS	CB-CA-C	-6.07	101.35	110.88
2	2	237	ALA	N-CA-C	-6.07	103.62	111.02
2	Q	245	LYS	CB-CA-C	-6.07	101.36	110.88
2	m	237	ALA	N-CA-C	-6.07	103.62	111.02
2	p	237	ALA	N-CA-C	-6.07	103.62	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	q	245	LYS	CB-CA-C	-6.06	101.36	110.88
2	W	245	LYS	CB-CA-C	-6.06	101.36	110.88
2	6	245	LYS	CB-CA-C	-6.06	101.36	110.88
2	7	245	LYS	CB-CA-C	-6.06	101.37	110.88
2	k	245	LYS	CB-CA-C	-6.05	101.38	110.88
2	y	237	ALA	N-CA-C	-6.05	103.63	111.02
2	Y	237	ALA	N-CA-C	-6.05	103.64	111.02
2	G	245	LYS	CB-CA-C	-6.05	101.38	110.88
2	h	237	ALA	N-CA-C	-6.05	103.64	111.02
2	r	245	LYS	CB-CA-C	-6.05	101.38	110.88
2	L	237	ALA	N-CA-C	-6.05	103.64	111.02
2	4	245	LYS	CB-CA-C	-6.05	101.39	110.88
2	x	245	LYS	CB-CA-C	-6.04	101.39	110.88
2	Z	245	LYS	CB-CA-C	-6.04	101.40	110.88
2	1	237	ALA	N-CA-C	-6.04	103.66	111.02
2	K	237	ALA	N-CA-C	-6.02	103.68	111.02
1	t	114	LEU	CB-CA-C	-5.98	101.49	110.88
1	O	114	LEU	CB-CA-C	-5.98	101.50	110.88
1	D	114	LEU	CB-CA-C	-5.97	101.50	110.88
1	e	114	LEU	CB-CA-C	-5.97	101.51	110.88
1	b	114	LEU	CB-CA-C	-5.96	101.52	110.88
1	v	114	LEU	CB-CA-C	-5.96	101.53	110.88
1	a	114	LEU	CB-CA-C	-5.95	101.53	110.88
1	g	114	LEU	CB-CA-C	-5.95	101.55	110.88
1	P	114	LEU	CB-CA-C	-5.94	101.55	110.88
1	u	114	LEU	CB-CA-C	-5.94	101.56	110.88
1	A	114	LEU	CB-CA-C	-5.93	101.56	110.88
1	f	114	LEU	CB-CA-C	-5.93	101.56	110.88
1	t	65	LEU	N-CA-C	-5.92	104.82	111.28
1	g	65	LEU	N-CA-C	-5.92	104.83	111.28
1	f	65	LEU	N-CA-C	-5.91	104.83	111.28
2	s	250	MET	N-CA-C	-5.90	104.85	111.28
1	v	65	LEU	N-CA-C	-5.90	104.85	111.28
1	P	65	LEU	N-CA-C	-5.90	104.85	111.28
1	D	65	LEU	N-CA-C	-5.89	104.86	111.28
1	A	65	LEU	N-CA-C	-5.89	104.86	111.28
2	2	247	THR	CB-CA-C	-5.89	101.01	110.79
1	a	65	LEU	N-CA-C	-5.88	104.87	111.28
1	b	65	LEU	N-CA-C	-5.88	104.87	111.28
1	e	65	LEU	N-CA-C	-5.88	104.88	111.28
2	6	258	GLY	CA-C-O	-5.87	116.46	121.57
1	u	65	LEU	N-CA-C	-5.86	104.89	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	5	258	GLY	CA-C-O	-5.86	116.47	121.57
2	q	258	GLY	CA-C-O	-5.86	116.47	121.57
2	x	258	GLY	CA-C-O	-5.85	116.48	121.57
2	n	258	GLY	CA-C-O	-5.84	116.49	121.57
2	7	258	GLY	CA-C-O	-5.84	116.49	121.57
2	V	258	GLY	CA-C-O	-5.84	116.49	121.57
1	O	65	LEU	N-CA-C	-5.83	104.92	111.28
2	N	250	MET	N-CA-C	-5.83	104.93	111.28
2	X	258	GLY	CA-C-O	-5.83	116.50	121.57
2	i	258	GLY	CA-C-O	-5.83	116.50	121.57
2	Y	258	GLY	CA-C-O	-5.82	116.50	121.57
2	E	258	GLY	CA-C-O	-5.82	116.51	121.57
2	W	258	GLY	CA-C-O	-5.82	116.51	121.57
2	Z	258	GLY	CA-C-O	-5.82	116.51	121.57
2	G	258	GLY	CA-C-O	-5.81	116.51	121.57
2	N	258	GLY	CA-C-O	-5.81	116.51	121.57
2	k	258	GLY	CA-C-O	-5.81	116.51	121.57
2	J	258	GLY	CA-C-O	-5.81	116.52	121.57
2	M	258	GLY	CA-C-O	-5.81	116.51	121.57
2	r	258	GLY	CA-C-O	-5.81	116.52	121.57
2	C	258	GLY	CA-C-O	-5.81	116.52	121.57
2	4	258	GLY	CA-C-O	-5.81	116.52	121.57
2	S	258	GLY	CA-C-O	-5.80	116.52	121.57
2	o	258	GLY	CA-C-O	-5.80	116.53	121.57
2	2	258	GLY	CA-C-O	-5.80	116.53	121.57
2	i	271	GLY	N-CA-C	-5.79	107.26	115.43
2	l	258	GLY	CA-C-O	-5.79	116.53	121.57
2	n	271	GLY	N-CA-C	-5.79	107.26	115.43
2	8	258	GLY	CA-C-O	-5.79	116.53	121.57
2	F	258	GLY	CA-C-O	-5.79	116.53	121.57
2	Z	271	GLY	N-CA-C	-5.79	107.26	115.43
2	5	271	GLY	N-CA-C	-5.79	107.26	115.43
2	Q	271	GLY	N-CA-C	-5.79	107.27	115.43
2	R	258	GLY	CA-C-O	-5.79	116.53	121.57
1	g	87	VAL	N-CA-C	-5.79	105.21	110.82
2	V	271	GLY	N-CA-C	-5.79	107.27	115.43
2	B	258	GLY	CA-C-O	-5.79	116.54	121.57
1	b	87	VAL	N-CA-C	-5.79	105.21	110.82
2	I	258	GLY	CA-C-O	-5.79	116.54	121.57
2	c	271	GLY	N-CA-C	-5.79	107.27	115.43
2	q	271	GLY	N-CA-C	-5.79	107.27	115.43
2	Q	258	GLY	CA-C-O	-5.78	116.54	121.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	9	258	GLY	CA-C-O	-5.78	116.54	121.57
2	w	271	GLY	N-CA-C	-5.78	107.28	115.43
2	C	271	GLY	N-CA-C	-5.78	107.28	115.43
2	H	258	GLY	CA-C-O	-5.78	116.54	121.57
2	j	258	GLY	CA-C-O	-5.78	116.54	121.57
2	p	258	GLY	CA-C-O	-5.78	116.54	121.57
2	T	258	GLY	CA-C-O	-5.78	116.55	121.57
2	s	271	GLY	N-CA-C	-5.78	107.29	115.43
2	y	258	GLY	CA-C-O	-5.78	116.55	121.57
2	2	271	GLY	N-CA-C	-5.77	107.29	115.43
2	p	271	GLY	N-CA-C	-5.77	107.29	115.43
1	t	87	VAL	N-CA-C	-5.77	105.22	110.82
2	X	271	GLY	N-CA-C	-5.77	107.30	115.43
2	j	271	GLY	N-CA-C	-5.77	107.30	115.43
2	o	271	GLY	N-CA-C	-5.77	107.30	115.43
2	Y	271	GLY	N-CA-C	-5.76	107.30	115.43
2	N	271	GLY	N-CA-C	-5.76	107.30	115.43
2	J	271	GLY	N-CA-C	-5.76	107.31	115.43
2	L	271	GLY	N-CA-C	-5.76	107.31	115.43
2	9	271	GLY	N-CA-C	-5.76	107.31	115.43
2	B	271	GLY	N-CA-C	-5.76	107.31	115.43
1	O	87	VAL	N-CA-C	-5.76	105.23	110.82
2	1	271	GLY	N-CA-C	-5.76	107.31	115.43
1	e	87	VAL	N-CA-C	-5.76	105.23	110.82
2	K	271	GLY	N-CA-C	-5.76	107.31	115.43
2	M	271	GLY	N-CA-C	-5.76	107.31	115.43
2	m	271	GLY	N-CA-C	-5.76	107.31	115.43
2	4	271	GLY	N-CA-C	-5.76	107.31	115.43
2	F	271	GLY	N-CA-C	-5.75	107.32	115.43
2	z	258	GLY	CA-C-O	-5.75	116.56	121.57
1	a	87	VAL	N-CA-C	-5.75	105.24	110.82
2	H	271	GLY	N-CA-C	-5.75	107.32	115.43
2	d	271	GLY	N-CA-C	-5.75	107.32	115.43
2	6	271	GLY	N-CA-C	-5.75	107.32	115.43
1	u	87	VAL	N-CA-C	-5.75	105.25	110.82
2	E	271	GLY	N-CA-C	-5.75	107.33	115.43
2	L	258	GLY	CA-C-O	-5.75	116.57	121.57
2	N	248	LYS	N-CA-C	-5.75	106.27	113.28
2	W	271	GLY	N-CA-C	-5.75	107.33	115.43
2	G	271	GLY	N-CA-C	-5.75	107.33	115.43
2	x	271	GLY	N-CA-C	-5.75	107.33	115.43
2	8	271	GLY	N-CA-C	-5.75	107.33	115.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	87	VAL	N-CA-C	-5.74	105.25	110.82
1	P	87	VAL	N-CA-C	-5.74	105.25	110.82
2	U	258	GLY	CA-C-O	-5.74	116.57	121.57
2	7	271	GLY	N-CA-C	-5.74	107.33	115.43
2	k	271	GLY	N-CA-C	-5.74	107.33	115.43
2	U	271	GLY	N-CA-C	-5.74	107.33	115.43
2	m	258	GLY	CA-C-O	-5.74	116.58	121.57
2	r	271	GLY	N-CA-C	-5.74	107.34	115.43
2	K	258	GLY	CA-C-O	-5.74	116.58	121.57
2	S	271	GLY	N-CA-C	-5.74	107.34	115.43
2	h	258	GLY	CA-C-O	-5.74	116.58	121.57
2	z	271	GLY	N-CA-C	-5.74	107.34	115.43
2	c	258	GLY	CA-C-O	-5.74	116.58	121.57
2	w	258	GLY	CA-C-O	-5.74	116.58	121.57
2	T	271	GLY	N-CA-C	-5.73	107.34	115.43
1	D	87	VAL	CA-C-O	-5.73	114.14	120.96
2	I	271	GLY	N-CA-C	-5.73	107.35	115.43
2	h	271	GLY	N-CA-C	-5.73	107.35	115.43
2	d	258	GLY	CA-C-O	-5.73	116.58	121.57
2	s	248	LYS	N-CA-C	-5.73	106.29	113.28
2	y	271	GLY	N-CA-C	-5.73	107.35	115.43
2	s	258	GLY	CA-C-O	-5.73	116.59	121.57
2	l	258	GLY	CA-C-O	-5.73	116.59	121.57
2	l	271	GLY	N-CA-C	-5.73	107.36	115.43
1	D	87	VAL	N-CA-C	-5.72	105.27	110.82
2	R	271	GLY	N-CA-C	-5.72	107.36	115.43
1	O	87	VAL	CA-C-O	-5.72	114.15	120.96
1	A	87	VAL	CA-C-O	-5.72	114.16	120.96
1	t	87	VAL	CA-C-O	-5.72	114.16	120.96
2	T	250	MET	N-CA-C	-5.71	105.41	112.38
1	v	87	VAL	N-CA-C	-5.71	105.28	110.82
2	U	250	MET	N-CA-C	-5.71	105.41	112.38
2	z	250	MET	N-CA-C	-5.71	105.41	112.38
1	f	87	VAL	N-CA-C	-5.71	105.28	110.82
1	v	87	VAL	CA-C-O	-5.71	114.17	120.96
2	i	250	MET	N-CA-C	-5.71	105.42	112.38
1	a	87	VAL	CA-C-O	-5.70	114.17	120.96
2	4	250	MET	N-CA-C	-5.70	105.42	112.38
1	P	87	VAL	CA-C-O	-5.70	114.17	120.96
1	g	87	VAL	CA-C-O	-5.70	114.18	120.96
1	e	87	VAL	CA-C-O	-5.70	114.18	120.96
2	k	250	MET	N-CA-C	-5.69	105.43	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	m	247	THR	N-CA-C	-5.69	105.07	111.28
2	x	250	MET	N-CA-C	-5.69	105.44	112.38
2	6	250	MET	N-CA-C	-5.69	105.44	112.38
2	F	250	MET	N-CA-C	-5.69	105.44	112.38
1	u	87	VAL	CA-C-O	-5.69	114.19	120.96
2	G	250	MET	N-CA-C	-5.69	105.44	112.38
2	C	250	MET	N-CA-C	-5.68	105.44	112.38
2	S	250	MET	N-CA-C	-5.68	105.44	112.38
2	p	250	MET	N-CA-C	-5.68	105.44	112.38
2	E	250	MET	N-CA-C	-5.68	105.45	112.38
2	Z	250	MET	N-CA-C	-5.68	105.45	112.38
2	h	250	MET	N-CA-C	-5.68	105.45	112.38
2	B	250	MET	N-CA-C	-5.68	105.45	112.38
2	V	250	MET	N-CA-C	-5.68	105.18	111.71
2	c	250	MET	N-CA-C	-5.68	105.45	112.38
2	r	250	MET	N-CA-C	-5.68	105.45	112.38
2	q	250	MET	N-CA-C	-5.68	105.45	112.38
2	K	250	MET	N-CA-C	-5.67	105.46	112.38
2	w	250	MET	N-CA-C	-5.67	105.46	112.38
1	f	87	VAL	CA-C-O	-5.67	114.21	120.96
2	l	250	MET	N-CA-C	-5.67	105.46	112.38
2	8	250	MET	N-CA-C	-5.67	105.46	112.38
2	M	250	MET	N-CA-C	-5.67	105.46	112.38
2	L	250	MET	N-CA-C	-5.67	105.47	112.38
2	W	250	MET	N-CA-C	-5.67	105.47	112.38
2	Y	250	MET	N-CA-C	-5.67	105.47	112.38
2	1	250	MET	N-CA-C	-5.67	105.47	112.38
2	7	250	MET	N-CA-C	-5.66	105.47	112.38
2	Q	250	MET	N-CA-C	-5.66	105.48	112.38
2	9	248	LYS	N-CA-C	-5.65	106.38	113.28
2	I	250	MET	N-CA-C	-5.65	105.48	112.38
2	n	250	MET	N-CA-C	-5.65	105.48	112.38
2	y	250	MET	N-CA-C	-5.65	105.49	112.38
1	b	87	VAL	CA-C-O	-5.65	114.24	120.96
2	j	250	MET	N-CA-C	-5.65	105.49	112.38
2	R	250	MET	N-CA-C	-5.64	105.50	112.38
2	d	248	LYS	N-CA-C	-5.63	106.41	113.28
2	V	247	THR	N-CA-C	-5.60	105.18	111.28
2	i	196	GLY	CA-C-N	-5.58	115.40	122.43
2	i	196	GLY	C-N-CA	-5.58	115.40	122.43
2	X	196	GLY	CA-C-N	-5.56	115.42	122.43
2	X	196	GLY	C-N-CA	-5.56	115.42	122.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	K	196	GLY	CA-C-N	-5.56	115.42	122.43
2	K	196	GLY	C-N-CA	-5.56	115.42	122.43
2	N	196	GLY	CA-C-N	-5.56	115.43	122.43
2	N	196	GLY	C-N-CA	-5.56	115.43	122.43
2	h	196	GLY	CA-C-N	-5.56	115.43	122.43
2	h	196	GLY	C-N-CA	-5.56	115.43	122.43
2	j	196	GLY	CA-C-N	-5.55	115.43	122.43
2	j	196	GLY	C-N-CA	-5.55	115.43	122.43
2	w	196	GLY	CA-C-N	-5.55	115.43	122.43
2	w	196	GLY	C-N-CA	-5.55	115.43	122.43
2	4	196	GLY	CA-C-N	-5.55	115.43	122.43
2	4	196	GLY	C-N-CA	-5.55	115.43	122.43
2	n	196	GLY	CA-C-N	-5.55	115.44	122.43
2	n	196	GLY	C-N-CA	-5.55	115.44	122.43
2	y	196	GLY	CA-C-N	-5.55	115.44	122.43
2	y	196	GLY	C-N-CA	-5.55	115.44	122.43
2	S	196	GLY	CA-C-N	-5.55	115.44	122.43
2	S	196	GLY	C-N-CA	-5.55	115.44	122.43
2	o	196	GLY	CA-C-N	-5.54	115.44	122.43
2	o	196	GLY	C-N-CA	-5.54	115.44	122.43
2	C	196	GLY	CA-C-N	-5.54	115.45	122.43
2	C	196	GLY	C-N-CA	-5.54	115.45	122.43
2	U	196	GLY	CA-C-N	-5.54	115.45	122.43
2	U	196	GLY	C-N-CA	-5.54	115.45	122.43
2	5	196	GLY	CA-C-N	-5.54	115.45	122.43
2	5	196	GLY	C-N-CA	-5.54	115.45	122.43
2	n	216	GLU	CA-C-N	-5.54	115.00	122.86
2	n	216	GLU	C-N-CA	-5.54	115.00	122.86
2	6	196	GLY	CA-C-N	-5.54	115.45	122.43
2	6	196	GLY	C-N-CA	-5.54	115.45	122.43
2	c	196	GLY	CA-C-N	-5.54	115.45	122.43
2	c	196	GLY	C-N-CA	-5.54	115.45	122.43
2	x	196	GLY	CA-C-N	-5.54	115.46	122.43
2	x	196	GLY	C-N-CA	-5.54	115.46	122.43
2	k	196	GLY	CA-C-N	-5.53	115.46	122.43
2	k	196	GLY	C-N-CA	-5.53	115.46	122.43
2	L	196	GLY	CA-C-N	-5.53	115.46	122.43
2	L	196	GLY	C-N-CA	-5.53	115.46	122.43
2	2	247	THR	N-CA-C	-5.53	105.25	111.28
2	8	196	GLY	CA-C-N	-5.53	115.46	122.43
2	8	196	GLY	C-N-CA	-5.53	115.46	122.43
2	l	196	GLY	CA-C-N	-5.53	115.47	122.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	l	196	GLY	C-N-CA	-5.53	115.47	122.43
2	z	196	GLY	CA-C-N	-5.53	115.47	122.43
2	z	196	GLY	C-N-CA	-5.53	115.47	122.43
2	G	196	GLY	CA-C-N	-5.52	115.47	122.43
2	G	196	GLY	C-N-CA	-5.52	115.47	122.43
2	B	196	GLY	CA-C-N	-5.52	115.47	122.43
2	B	196	GLY	C-N-CA	-5.52	115.47	122.43
2	q	216	GLU	CA-C-N	-5.52	115.02	122.86
2	q	216	GLU	C-N-CA	-5.52	115.02	122.86
2	s	216	GLU	CA-C-N	-5.52	115.02	122.86
2	s	216	GLU	C-N-CA	-5.52	115.02	122.86
2	2	196	GLY	CA-C-N	-5.52	115.47	122.43
2	2	196	GLY	C-N-CA	-5.52	115.47	122.43
2	i	266	THR	N-CA-C	-5.52	105.26	111.28
2	N	216	GLU	CA-C-N	-5.52	115.02	122.86
2	N	216	GLU	C-N-CA	-5.52	115.02	122.86
2	T	196	GLY	CA-C-N	-5.52	115.47	122.43
2	T	196	GLY	C-N-CA	-5.52	115.47	122.43
2	k	216	GLU	CA-C-N	-5.52	115.03	122.86
2	k	216	GLU	C-N-CA	-5.52	115.03	122.86
2	s	196	GLY	CA-C-N	-5.52	115.48	122.43
2	s	196	GLY	C-N-CA	-5.52	115.48	122.43
2	J	196	GLY	CA-C-N	-5.52	115.48	122.43
2	J	196	GLY	C-N-CA	-5.52	115.48	122.43
2	Y	196	GLY	CA-C-N	-5.51	115.48	122.43
2	Y	196	GLY	C-N-CA	-5.51	115.48	122.43
2	m	196	GLY	CA-C-N	-5.51	115.48	122.43
2	m	196	GLY	C-N-CA	-5.51	115.48	122.43
2	r	196	GLY	CA-C-N	-5.51	115.49	122.43
2	r	196	GLY	C-N-CA	-5.51	115.49	122.43
2	1	196	GLY	CA-C-N	-5.51	115.48	122.43
2	1	196	GLY	C-N-CA	-5.51	115.48	122.43
2	Q	196	GLY	CA-C-N	-5.51	115.49	122.43
2	Q	196	GLY	C-N-CA	-5.51	115.49	122.43
2	Z	196	GLY	CA-C-N	-5.51	115.49	122.43
2	Z	196	GLY	C-N-CA	-5.51	115.49	122.43
2	C	216	GLU	CA-C-N	-5.51	115.04	122.86
2	C	216	GLU	C-N-CA	-5.51	115.04	122.86
2	4	216	GLU	CA-C-N	-5.51	115.04	122.86
2	4	216	GLU	C-N-CA	-5.51	115.04	122.86
2	8	216	GLU	CA-C-N	-5.51	115.04	122.86
2	8	216	GLU	C-N-CA	-5.51	115.04	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	196	GLY	CA-C-N	-5.51	115.49	122.43
2	F	196	GLY	C-N-CA	-5.51	115.49	122.43
2	x	216	GLU	CA-C-N	-5.51	115.04	122.86
2	x	216	GLU	C-N-CA	-5.51	115.04	122.86
2	7	196	GLY	CA-C-N	-5.51	115.49	122.43
2	7	196	GLY	C-N-CA	-5.51	115.49	122.43
2	p	196	GLY	CA-C-N	-5.50	115.50	122.43
2	p	196	GLY	C-N-CA	-5.50	115.50	122.43
2	H	196	GLY	CA-C-N	-5.50	115.50	122.43
2	H	196	GLY	C-N-CA	-5.50	115.50	122.43
2	L	216	GLU	CA-C-N	-5.50	115.05	122.86
2	L	216	GLU	C-N-CA	-5.50	115.05	122.86
2	d	196	GLY	CA-C-N	-5.50	115.50	122.43
2	d	196	GLY	C-N-CA	-5.50	115.50	122.43
2	I	196	GLY	CA-C-N	-5.50	115.50	122.43
2	I	196	GLY	C-N-CA	-5.50	115.50	122.43
2	W	196	GLY	CA-C-N	-5.50	115.50	122.43
2	W	196	GLY	C-N-CA	-5.50	115.50	122.43
2	I	216	GLU	CA-C-N	-5.50	115.05	122.86
2	I	216	GLU	C-N-CA	-5.50	115.05	122.86
2	X	216	GLU	CA-C-N	-5.50	115.06	122.86
2	X	216	GLU	C-N-CA	-5.50	115.06	122.86
2	V	196	GLY	CA-C-N	-5.49	115.51	122.43
2	V	196	GLY	C-N-CA	-5.49	115.51	122.43
2	M	196	GLY	CA-C-N	-5.49	115.51	122.43
2	M	196	GLY	C-N-CA	-5.49	115.51	122.43
2	2	216	GLU	CA-C-N	-5.49	115.06	122.86
2	2	216	GLU	C-N-CA	-5.49	115.06	122.86
2	7	216	GLU	CA-C-N	-5.49	115.06	122.86
2	7	216	GLU	C-N-CA	-5.49	115.06	122.86
2	9	196	GLY	CA-C-N	-5.49	115.51	122.43
2	9	196	GLY	C-N-CA	-5.49	115.51	122.43
2	E	196	GLY	CA-C-N	-5.49	115.52	122.43
2	E	196	GLY	C-N-CA	-5.49	115.52	122.43
2	q	196	GLY	CA-C-N	-5.49	115.51	122.43
2	q	196	GLY	C-N-CA	-5.49	115.51	122.43
2	w	216	GLU	CA-C-N	-5.49	115.07	122.86
2	w	216	GLU	C-N-CA	-5.49	115.07	122.86
2	K	216	GLU	CA-C-N	-5.49	115.07	122.86
2	K	216	GLU	C-N-CA	-5.49	115.07	122.86
2	X	266	THR	N-CA-C	-5.49	105.30	111.28
2	c	216	GLU	CA-C-N	-5.49	115.07	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	c	216	GLU	C-N-CA	-5.49	115.07	122.86
2	H	216	GLU	CA-C-N	-5.48	115.08	122.86
2	H	216	GLU	C-N-CA	-5.48	115.08	122.86
2	R	216	GLU	CA-C-N	-5.48	115.07	122.86
2	R	216	GLU	C-N-CA	-5.48	115.07	122.86
2	S	216	GLU	CA-C-N	-5.48	115.08	122.86
2	S	216	GLU	C-N-CA	-5.48	115.08	122.86
2	Z	216	GLU	CA-C-N	-5.48	115.08	122.86
2	Z	216	GLU	C-N-CA	-5.48	115.08	122.86
2	p	216	GLU	CA-C-N	-5.48	115.08	122.86
2	p	216	GLU	C-N-CA	-5.48	115.08	122.86
2	M	216	GLU	CA-C-N	-5.48	115.08	122.86
2	M	216	GLU	C-N-CA	-5.48	115.08	122.86
2	1	216	GLU	CA-C-N	-5.48	115.08	122.86
2	1	216	GLU	C-N-CA	-5.48	115.08	122.86
2	B	216	GLU	CA-C-N	-5.48	115.08	122.86
2	B	216	GLU	C-N-CA	-5.48	115.08	122.86
2	l	216	GLU	CA-C-N	-5.48	115.08	122.86
2	l	216	GLU	C-N-CA	-5.48	115.08	122.86
2	z	216	GLU	CA-C-N	-5.48	115.08	122.86
2	z	216	GLU	C-N-CA	-5.48	115.08	122.86
2	1	266	THR	N-CA-C	-5.47	105.31	111.28
2	6	216	GLU	CA-C-N	-5.47	115.09	122.86
2	6	216	GLU	C-N-CA	-5.47	115.09	122.86
2	o	216	GLU	CA-C-N	-5.47	115.09	122.86
2	o	216	GLU	C-N-CA	-5.47	115.09	122.86
2	9	250	MET	N-CA-C	-5.47	105.31	111.28
2	9	216	GLU	CA-C-N	-5.47	115.09	122.86
2	9	216	GLU	C-N-CA	-5.47	115.09	122.86
2	d	216	GLU	CA-C-N	-5.47	115.10	122.86
2	d	216	GLU	C-N-CA	-5.47	115.10	122.86
2	5	216	GLU	CA-C-N	-5.47	115.09	122.86
2	5	216	GLU	C-N-CA	-5.47	115.09	122.86
2	F	216	GLU	CA-C-N	-5.47	115.10	122.86
2	F	216	GLU	C-N-CA	-5.47	115.10	122.86
2	j	216	GLU	CA-C-N	-5.47	115.10	122.86
2	j	216	GLU	C-N-CA	-5.47	115.10	122.86
2	E	216	GLU	CA-C-N	-5.46	115.10	122.86
2	E	216	GLU	C-N-CA	-5.46	115.10	122.86
2	U	216	GLU	CA-C-N	-5.46	115.10	122.86
2	U	216	GLU	C-N-CA	-5.46	115.10	122.86
2	G	216	GLU	CA-C-N	-5.46	115.10	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	G	216	GLU	C-N-CA	-5.46	115.10	122.86
2	y	216	GLU	CA-C-N	-5.46	115.10	122.86
2	y	216	GLU	C-N-CA	-5.46	115.10	122.86
2	J	266	THR	N-CA-C	-5.46	105.33	111.28
2	m	216	GLU	CA-C-N	-5.46	115.11	122.86
2	m	216	GLU	C-N-CA	-5.46	115.11	122.86
2	7	266	THR	N-CA-C	-5.46	105.33	111.28
2	Y	216	GLU	CA-C-N	-5.46	115.11	122.86
2	Y	216	GLU	C-N-CA	-5.46	115.11	122.86
2	Z	266	THR	N-CA-C	-5.46	105.33	111.28
2	i	216	GLU	CA-C-N	-5.46	115.11	122.86
2	i	216	GLU	C-N-CA	-5.46	115.11	122.86
2	R	196	GLY	CA-C-N	-5.45	115.56	122.43
2	R	196	GLY	C-N-CA	-5.45	115.56	122.43
2	r	216	GLU	CA-C-N	-5.45	115.12	122.86
2	r	216	GLU	C-N-CA	-5.45	115.12	122.86
2	T	266	THR	N-CA-C	-5.45	105.34	111.28
2	Q	216	GLU	CA-C-N	-5.45	115.12	122.86
2	Q	216	GLU	C-N-CA	-5.45	115.12	122.86
2	W	216	GLU	CA-C-N	-5.45	115.12	122.86
2	W	216	GLU	C-N-CA	-5.45	115.12	122.86
2	W	266	THR	N-CA-C	-5.45	105.34	111.28
2	h	216	GLU	CA-C-N	-5.45	115.12	122.86
2	h	216	GLU	C-N-CA	-5.45	115.12	122.86
2	l	266	THR	N-CA-C	-5.45	105.34	111.28
2	m	266	THR	N-CA-C	-5.45	105.34	111.28
2	2	266	THR	N-CA-C	-5.45	105.34	111.28
2	T	216	GLU	CA-C-N	-5.45	115.12	122.86
2	T	216	GLU	C-N-CA	-5.45	115.12	122.86
2	C	266	THR	N-CA-C	-5.45	105.34	111.28
2	w	266	THR	N-CA-C	-5.45	105.34	111.28
2	K	266	THR	N-CA-C	-5.44	105.35	111.28
2	M	266	THR	N-CA-C	-5.44	105.35	111.28
2	Y	266	THR	N-CA-C	-5.44	105.35	111.28
2	J	216	GLU	CA-C-N	-5.44	115.13	122.86
2	J	216	GLU	C-N-CA	-5.44	115.13	122.86
2	S	266	THR	N-CA-C	-5.44	105.35	111.28
2	r	266	THR	N-CA-C	-5.44	105.35	111.28
2	G	266	THR	N-CA-C	-5.44	105.35	111.28
2	k	266	THR	N-CA-C	-5.44	105.35	111.28
2	y	266	THR	N-CA-C	-5.44	105.35	111.28
2	o	266	THR	N-CA-C	-5.43	105.36	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	x	266	THR	N-CA-C	-5.43	105.36	111.28
2	B	266	THR	N-CA-C	-5.43	105.36	111.28
2	L	266	THR	N-CA-C	-5.43	105.36	111.28
2	n	266	THR	N-CA-C	-5.43	105.36	111.28
2	V	216	GLU	CA-C-N	-5.43	115.15	122.86
2	V	216	GLU	C-N-CA	-5.43	115.15	122.86
2	h	266	THR	N-CA-C	-5.43	105.36	111.28
2	j	266	THR	N-CA-C	-5.43	105.36	111.28
2	Q	266	THR	N-CA-C	-5.42	105.37	111.28
2	q	266	THR	N-CA-C	-5.42	105.37	111.28
2	6	266	THR	N-CA-C	-5.42	105.37	111.28
2	F	266	THR	N-CA-C	-5.42	105.37	111.28
2	d	266	THR	N-CA-C	-5.42	105.38	111.28
2	p	266	THR	N-CA-C	-5.42	105.38	111.28
2	z	266	THR	N-CA-C	-5.42	105.38	111.28
2	9	266	THR	N-CA-C	-5.41	105.38	111.28
2	H	266	THR	N-CA-C	-5.41	105.38	111.28
2	N	266	THR	N-CA-C	-5.41	105.38	111.28
2	5	266	THR	N-CA-C	-5.41	105.38	111.28
2	s	266	THR	N-CA-C	-5.40	105.39	111.28
2	4	266	THR	N-CA-C	-5.40	105.39	111.28
2	8	266	THR	N-CA-C	-5.40	105.39	111.28
2	U	266	THR	N-CA-C	-5.40	105.40	111.28
2	I	266	THR	N-CA-C	-5.39	105.40	111.28
2	R	266	THR	N-CA-C	-5.39	105.40	111.28
2	E	266	THR	N-CA-C	-5.39	105.40	111.28
2	c	266	THR	N-CA-C	-5.38	105.41	111.28
2	V	266	THR	N-CA-C	-5.38	105.42	111.28
1	t	26	THR	N-CA-C	-5.36	105.52	111.36
1	A	26	THR	N-CA-C	-5.33	105.55	111.36
1	v	26	THR	N-CA-C	-5.33	105.55	111.36
2	d	220	LYS	N-CA-C	-5.33	106.03	112.54
2	R	220	LYS	N-CA-C	-5.33	106.04	112.54
2	S	220	LYS	N-CA-C	-5.33	106.04	112.54
2	Y	220	LYS	N-CA-C	-5.33	106.04	112.54
2	T	220	LYS	N-CA-C	-5.33	106.04	112.54
2	x	220	LYS	N-CA-C	-5.33	106.04	112.54
2	L	220	LYS	N-CA-C	-5.33	106.04	112.54
2	2	250	MET	N-CA-C	-5.33	105.59	111.71
2	J	220	LYS	N-CA-C	-5.32	106.04	112.54
2	l	220	LYS	N-CA-C	-5.32	106.05	112.54
2	q	220	LYS	N-CA-C	-5.32	106.05	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	I	220	LYS	N-CA-C	-5.32	106.05	112.54
2	N	220	LYS	N-CA-C	-5.32	106.05	112.54
2	d	250	MET	N-CA-C	-5.32	105.48	111.28
1	D	93	ASP	N-CA-C	-5.32	105.48	111.28
1	g	93	ASP	N-CA-C	-5.32	105.48	111.28
2	h	220	LYS	N-CA-C	-5.32	106.05	112.54
1	e	26	THR	N-CA-C	-5.32	105.57	111.36
2	j	220	LYS	N-CA-C	-5.32	106.05	112.54
2	6	220	LYS	N-CA-C	-5.32	106.06	112.54
1	a	26	THR	N-CA-C	-5.31	105.57	111.36
1	b	26	THR	N-CA-C	-5.31	105.57	111.36
2	G	220	LYS	N-CA-C	-5.31	106.06	112.54
1	f	26	THR	N-CA-C	-5.31	105.57	111.36
2	E	220	LYS	N-CA-C	-5.31	106.06	112.54
2	y	220	LYS	N-CA-C	-5.31	106.06	112.54
2	5	220	LYS	N-CA-C	-5.31	106.06	112.54
2	V	220	LYS	N-CA-C	-5.31	106.06	112.54
2	X	220	LYS	N-CA-C	-5.31	106.06	112.54
2	Z	220	LYS	N-CA-C	-5.30	106.07	112.54
2	W	220	LYS	N-CA-C	-5.30	106.07	112.54
2	K	220	LYS	N-CA-C	-5.30	106.07	112.54
2	k	220	LYS	N-CA-C	-5.30	106.07	112.54
2	z	220	LYS	N-CA-C	-5.30	106.07	112.54
2	o	220	LYS	N-CA-C	-5.30	106.08	112.54
2	w	220	LYS	N-CA-C	-5.30	106.08	112.54
2	B	220	LYS	N-CA-C	-5.30	106.08	112.54
2	H	220	LYS	N-CA-C	-5.30	106.08	112.54
2	9	220	LYS	N-CA-C	-5.30	106.08	112.54
1	u	93	ASP	N-CA-C	-5.30	105.51	111.28
2	7	220	LYS	N-CA-C	-5.30	106.08	112.54
1	g	26	THR	N-CA-C	-5.29	105.59	111.36
2	m	220	LYS	N-CA-C	-5.29	106.08	112.54
1	O	26	THR	N-CA-C	-5.29	105.59	111.36
1	P	26	THR	N-CA-C	-5.29	105.59	111.36
2	p	220	LYS	N-CA-C	-5.29	106.08	112.54
2	Q	220	LYS	N-CA-C	-5.29	106.09	112.54
2	1	220	LYS	N-CA-C	-5.29	106.08	112.54
1	A	93	ASP	N-CA-C	-5.29	105.51	111.28
1	u	26	THR	N-CA-C	-5.29	105.60	111.36
2	i	220	LYS	N-CA-C	-5.29	106.09	112.54
2	c	220	LYS	N-CA-C	-5.29	106.09	112.54
2	8	220	LYS	N-CA-C	-5.29	106.09	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	v	93	ASP	N-CA-C	-5.29	105.52	111.28
2	U	220	LYS	N-CA-C	-5.29	106.09	112.54
2	r	220	LYS	N-CA-C	-5.29	106.09	112.54
2	s	220	LYS	N-CA-C	-5.29	106.09	112.54
2	4	220	LYS	N-CA-C	-5.28	106.09	112.54
1	O	93	ASP	N-CA-C	-5.28	105.52	111.28
2	C	220	LYS	N-CA-C	-5.28	106.10	112.54
2	M	220	LYS	N-CA-C	-5.28	106.10	112.54
1	D	26	THR	N-CA-C	-5.28	105.61	111.36
2	F	220	LYS	N-CA-C	-5.28	106.10	112.54
1	a	93	ASP	N-CA-C	-5.28	105.53	111.28
2	H	247	THR	N-CA-C	-5.28	105.53	111.28
2	2	220	LYS	N-CA-C	-5.28	106.10	112.54
1	P	93	ASP	N-CA-C	-5.27	105.54	111.28
1	e	93	ASP	N-CA-C	-5.27	105.54	111.28
2	n	220	LYS	N-CA-C	-5.26	106.12	112.54
1	t	93	ASP	N-CA-C	-5.25	105.55	111.28
1	u	113	TYR	N-CA-C	-5.25	105.64	111.36
1	b	113	TYR	N-CA-C	-5.25	105.64	111.36
1	b	93	ASP	N-CA-C	-5.24	105.56	111.28
1	f	93	ASP	N-CA-C	-5.24	105.56	111.28
1	e	113	TYR	N-CA-C	-5.24	105.65	111.36
1	P	113	TYR	N-CA-C	-5.24	105.65	111.36
2	S	241	ILE	N-CA-C	-5.24	105.22	110.30
2	k	241	ILE	N-CA-C	-5.23	105.22	110.30
1	a	113	TYR	N-CA-C	-5.23	105.66	111.36
1	O	113	TYR	N-CA-C	-5.23	105.66	111.36
1	t	113	TYR	N-CA-C	-5.23	105.66	111.36
2	s	241	ILE	N-CA-C	-5.22	105.23	110.30
1	D	113	TYR	N-CA-C	-5.22	105.67	111.36
2	G	241	ILE	N-CA-C	-5.22	105.24	110.30
2	7	241	ILE	N-CA-C	-5.22	105.24	110.30
1	P	72	GLU	N-CA-C	-5.22	105.67	111.36
2	o	241	ILE	N-CA-C	-5.22	105.24	110.30
1	f	113	TYR	N-CA-C	-5.21	105.68	111.36
1	g	113	TYR	N-CA-C	-5.21	105.68	111.36
2	C	241	ILE	N-CA-C	-5.21	105.24	110.30
2	Q	241	ILE	N-CA-C	-5.21	105.24	110.30
2	w	241	ILE	N-CA-C	-5.21	105.24	110.30
2	X	241	ILE	N-CA-C	-5.21	105.25	110.30
2	h	241	ILE	N-CA-C	-5.21	105.25	110.30
1	D	72	GLU	N-CA-C	-5.21	105.69	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	v	113	TYR	N-CA-C	-5.21	105.69	111.36
2	H	241	ILE	N-CA-C	-5.20	105.25	110.30
2	M	241	ILE	N-CA-C	-5.20	105.25	110.30
2	Y	241	ILE	N-CA-C	-5.20	105.26	110.30
2	W	241	ILE	N-CA-C	-5.20	105.26	110.30
2	z	241	ILE	N-CA-C	-5.20	105.26	110.30
2	T	241	ILE	N-CA-C	-5.19	105.26	110.30
1	g	72	GLU	N-CA-C	-5.19	105.70	111.36
2	B	241	ILE	N-CA-C	-5.19	105.27	110.30
1	A	113	TYR	N-CA-C	-5.19	105.70	111.36
2	U	241	ILE	N-CA-C	-5.19	105.27	110.30
2	y	241	ILE	N-CA-C	-5.19	105.27	110.30
2	L	241	ILE	N-CA-C	-5.19	105.27	110.30
2	V	241	ILE	N-CA-C	-5.19	105.27	110.30
1	t	72	GLU	N-CA-C	-5.19	105.70	111.36
2	F	241	ILE	N-CA-C	-5.19	105.27	110.30
2	J	241	ILE	N-CA-C	-5.19	105.27	110.30
2	E	241	ILE	N-CA-C	-5.18	105.27	110.30
2	l	241	ILE	N-CA-C	-5.18	105.27	110.30
2	8	241	ILE	N-CA-C	-5.18	105.27	110.30
1	A	72	GLU	N-CA-C	-5.18	105.71	111.36
2	6	241	ILE	N-CA-C	-5.18	105.27	110.30
2	c	241	ILE	N-CA-C	-5.18	105.27	110.30
1	O	72	GLU	N-CA-C	-5.18	105.72	111.36
1	a	72	GLU	N-CA-C	-5.18	105.72	111.36
2	j	241	ILE	N-CA-C	-5.17	105.28	110.30
2	q	241	ILE	N-CA-C	-5.17	105.28	110.30
2	2	241	ILE	N-CA-C	-5.17	105.28	110.30
2	d	241	ILE	N-CA-C	-5.17	105.28	110.30
2	I	241	ILE	N-CA-C	-5.17	105.28	110.30
2	p	241	ILE	N-CA-C	-5.17	105.28	110.30
1	v	72	GLU	N-CA-C	-5.17	105.73	111.36
2	m	241	ILE	N-CA-C	-5.17	105.29	110.30
2	1	241	ILE	N-CA-C	-5.17	105.29	110.30
2	5	241	ILE	N-CA-C	-5.17	105.29	110.30
1	f	72	GLU	N-CA-C	-5.17	105.73	111.36
2	4	241	ILE	N-CA-C	-5.17	105.29	110.30
2	N	241	ILE	N-CA-C	-5.17	105.29	110.30
2	T	205	ASP	N-CA-C	-5.17	105.54	111.07
2	d	205	ASP	N-CA-C	-5.16	105.55	111.07
2	9	241	ILE	N-CA-C	-5.16	105.29	110.30
2	i	241	ILE	N-CA-C	-5.16	105.30	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	72	GLU	N-CA-C	-5.16	105.74	111.36
2	R	241	ILE	N-CA-C	-5.16	105.30	110.30
1	b	72	GLU	N-CA-C	-5.16	105.74	111.36
1	u	72	GLU	N-CA-C	-5.16	105.74	111.36
2	x	241	ILE	N-CA-C	-5.16	105.30	110.30
2	r	241	ILE	N-CA-C	-5.15	105.31	110.30
2	l	244	THR	CA-C-N	-5.15	113.75	120.44
2	l	244	THR	C-N-CA	-5.15	113.75	120.44
2	n	241	ILE	N-CA-C	-5.14	105.31	110.30
2	N	205	ASP	N-CA-C	-5.14	105.57	111.07
2	K	241	ILE	N-CA-C	-5.14	105.31	110.30
2	Z	241	ILE	N-CA-C	-5.14	105.32	110.30
2	m	250	MET	N-CA-C	-5.14	105.80	111.71
2	R	205	ASP	N-CA-C	-5.14	105.57	111.07
2	4	205	ASP	N-CA-C	-5.14	105.57	111.07
2	8	205	ASP	N-CA-C	-5.14	105.57	111.07
2	m	205	ASP	N-CA-C	-5.13	105.58	111.07
2	q	205	ASP	N-CA-C	-5.13	105.58	111.07
2	z	205	ASP	N-CA-C	-5.13	105.58	111.07
2	E	205	ASP	N-CA-C	-5.13	105.58	111.07
2	k	205	ASP	N-CA-C	-5.13	105.58	111.07
2	L	205	ASP	N-CA-C	-5.13	105.58	111.07
2	p	244	THR	CA-C-N	-5.13	113.78	120.44
2	p	244	THR	C-N-CA	-5.13	113.78	120.44
2	x	205	ASP	N-CA-C	-5.13	105.58	111.07
2	2	205	ASP	N-CA-C	-5.12	105.59	111.07
2	5	205	ASP	N-CA-C	-5.12	105.59	111.07
2	S	205	ASP	N-CA-C	-5.12	105.59	111.07
2	H	205	ASP	N-CA-C	-5.12	105.59	111.07
2	c	244	THR	CA-C-N	-5.12	113.79	120.44
2	c	244	THR	C-N-CA	-5.12	113.79	120.44
2	6	244	THR	CA-C-N	-5.12	113.79	120.44
2	6	244	THR	C-N-CA	-5.12	113.79	120.44
2	U	205	ASP	N-CA-C	-5.12	105.59	111.07
2	j	205	ASP	N-CA-C	-5.12	105.59	111.07
2	I	205	ASP	N-CA-C	-5.12	105.60	111.07
2	K	244	THR	CA-C-N	-5.12	113.79	120.44
2	K	244	THR	C-N-CA	-5.12	113.79	120.44
2	l	205	ASP	N-CA-C	-5.12	105.60	111.07
2	6	205	ASP	N-CA-C	-5.12	105.60	111.07
2	7	244	THR	CA-C-N	-5.12	113.79	120.44
2	7	244	THR	C-N-CA	-5.12	113.79	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	x	244	THR	CA-C-N	-5.11	113.79	120.44
2	x	244	THR	C-N-CA	-5.11	113.79	120.44
2	B	205	ASP	N-CA-C	-5.11	105.60	111.07
2	G	244	THR	CA-C-N	-5.11	113.80	120.44
2	G	244	THR	C-N-CA	-5.11	113.80	120.44
2	C	205	ASP	N-CA-C	-5.11	105.61	111.07
2	F	205	ASP	N-CA-C	-5.11	105.61	111.07
2	J	205	ASP	N-CA-C	-5.11	105.61	111.07
2	c	205	ASP	N-CA-C	-5.11	105.61	111.07
2	o	205	ASP	N-CA-C	-5.11	105.61	111.07
2	p	205	ASP	N-CA-C	-5.11	105.61	111.07
2	y	244	THR	CA-C-N	-5.11	113.80	120.44
2	y	244	THR	C-N-CA	-5.11	113.80	120.44
1	t	69	LYS	CA-C-N	-5.10	113.91	120.65
1	t	69	LYS	C-N-CA	-5.10	113.91	120.65
2	Z	205	ASP	N-CA-C	-5.10	105.61	111.07
2	w	244	THR	CA-C-N	-5.10	113.80	120.44
2	w	244	THR	C-N-CA	-5.10	113.80	120.44
2	K	205	ASP	N-CA-C	-5.10	105.61	111.07
2	X	205	ASP	N-CA-C	-5.10	105.61	111.07
2	w	205	ASP	N-CA-C	-5.10	105.61	111.07
2	r	244	THR	CA-C-N	-5.10	113.81	120.44
2	r	244	THR	C-N-CA	-5.10	113.81	120.44
2	C	244	THR	CA-C-N	-5.10	113.81	120.44
2	C	244	THR	C-N-CA	-5.10	113.81	120.44
2	M	205	ASP	N-CA-C	-5.10	105.61	111.07
2	Q	205	ASP	N-CA-C	-5.10	105.62	111.07
2	G	205	ASP	N-CA-C	-5.09	105.62	111.07
2	W	205	ASP	N-CA-C	-5.09	105.62	111.07
2	h	244	THR	CA-C-N	-5.09	113.82	120.44
2	h	244	THR	C-N-CA	-5.09	113.82	120.44
2	j	244	THR	CA-C-N	-5.09	113.82	120.44
2	j	244	THR	C-N-CA	-5.09	113.82	120.44
2	s	205	ASP	N-CA-C	-5.09	105.62	111.07
2	7	205	ASP	N-CA-C	-5.09	105.62	111.07
2	F	244	THR	CA-C-N	-5.09	113.82	120.44
2	F	244	THR	C-N-CA	-5.09	113.82	120.44
2	M	244	THR	CA-C-N	-5.09	113.82	120.44
2	M	244	THR	C-N-CA	-5.09	113.82	120.44
2	Q	244	THR	CA-C-N	-5.09	113.82	120.44
2	Q	244	THR	C-N-CA	-5.09	113.82	120.44
2	h	205	ASP	N-CA-C	-5.09	105.62	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	i	244	THR	CA-C-N	-5.09	113.82	120.44
2	i	244	THR	C-N-CA	-5.09	113.82	120.44
2	k	244	THR	CA-C-N	-5.09	113.82	120.44
2	k	244	THR	C-N-CA	-5.09	113.82	120.44
2	l	244	THR	CA-C-N	-5.09	113.82	120.44
2	l	244	THR	C-N-CA	-5.09	113.82	120.44
2	E	244	THR	CA-C-N	-5.09	113.83	120.44
2	E	244	THR	C-N-CA	-5.09	113.83	120.44
2	U	244	THR	CA-C-N	-5.09	113.83	120.44
2	U	244	THR	C-N-CA	-5.09	113.83	120.44
1	b	73	VAL	O-C-N	5.09	126.80	121.87
1	D	107	LEU	N-CA-C	-5.09	107.43	113.38
2	Y	205	ASP	N-CA-C	-5.09	105.63	111.07
2	i	205	ASP	N-CA-C	-5.09	105.63	111.07
2	B	244	THR	CA-C-N	-5.08	113.83	120.44
2	B	244	THR	C-N-CA	-5.08	113.83	120.44
2	n	244	THR	CA-C-N	-5.08	113.83	120.44
2	n	244	THR	C-N-CA	-5.08	113.83	120.44
2	z	244	THR	CA-C-N	-5.08	113.83	120.44
2	z	244	THR	C-N-CA	-5.08	113.83	120.44
2	n	205	ASP	N-CA-C	-5.08	105.63	111.07
2	R	244	THR	CA-C-N	-5.08	113.83	120.44
2	R	244	THR	C-N-CA	-5.08	113.83	120.44
2	Y	244	THR	CA-C-N	-5.08	113.84	120.44
2	Y	244	THR	C-N-CA	-5.08	113.84	120.44
2	Z	244	THR	CA-C-N	-5.08	113.84	120.44
2	Z	244	THR	C-N-CA	-5.08	113.84	120.44
2	8	244	THR	CA-C-N	-5.08	113.84	120.44
2	8	244	THR	C-N-CA	-5.08	113.84	120.44
2	y	205	ASP	N-CA-C	-5.08	105.64	111.07
2	L	244	THR	CA-C-N	-5.08	113.84	120.44
2	L	244	THR	C-N-CA	-5.08	113.84	120.44
2	9	205	ASP	N-CA-C	-5.08	105.64	111.07
1	O	107	LEU	N-CA-C	-5.07	107.45	113.38
1	v	107	LEU	N-CA-C	-5.07	107.45	113.38
2	W	244	THR	CA-C-N	-5.07	113.85	120.44
2	W	244	THR	C-N-CA	-5.07	113.85	120.44
2	I	244	THR	CA-C-N	-5.07	113.85	120.44
2	I	244	THR	C-N-CA	-5.07	113.85	120.44
2	r	205	ASP	N-CA-C	-5.07	105.65	111.07
2	T	244	THR	CA-C-N	-5.07	113.86	120.44
2	T	244	THR	C-N-CA	-5.07	113.86	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	q	244	THR	CA-C-N	-5.07	113.86	120.44
2	q	244	THR	C-N-CA	-5.07	113.86	120.44
1	A	73	VAL	O-C-N	5.06	126.78	121.87
1	f	73	VAL	O-C-N	5.06	126.78	121.87
2	S	244	THR	CA-C-N	-5.06	113.87	120.44
2	S	244	THR	C-N-CA	-5.06	113.87	120.44
2	V	205	ASP	N-CA-C	-5.05	105.66	111.07
1	e	73	VAL	O-C-N	5.05	126.77	121.87
1	O	73	VAL	O-C-N	5.05	126.77	121.87
2	1	205	ASP	N-CA-C	-5.05	105.67	111.07
2	X	213	LYS	N-CA-C	-5.04	105.79	111.28
1	D	73	VAL	O-C-N	5.04	126.76	121.87
2	4	244	THR	CA-C-N	-5.04	113.89	120.44
2	4	244	THR	C-N-CA	-5.04	113.89	120.44
1	v	73	VAL	O-C-N	5.04	126.75	121.87
1	t	73	VAL	O-C-N	5.03	126.74	121.87
2	V	213	LYS	N-CA-C	-5.02	105.80	111.28
1	a	73	VAL	O-C-N	5.02	126.74	121.87
2	I	208	SER	N-CA-C	-5.02	105.89	111.36
1	g	73	VAL	O-C-N	5.02	126.74	121.87
2	U	213	LYS	N-CA-C	-5.02	105.81	111.28
1	e	69	LYS	CA-C-N	-5.02	113.92	120.44
1	e	69	LYS	C-N-CA	-5.02	113.92	120.44
2	Z	213	LYS	N-CA-C	-5.02	105.81	111.28
1	P	73	VAL	O-C-N	5.01	126.73	121.87
1	u	73	VAL	O-C-N	5.01	126.73	121.87
2	6	213	LYS	N-CA-C	-5.01	105.82	111.28
2	7	213	LYS	N-CA-C	-5.01	105.82	111.28
2	p	213	LYS	N-CA-C	-5.01	105.82	111.28
2	R	213	LYS	N-CA-C	-5.01	105.82	111.28
2	S	208	SER	N-CA-C	-5.00	105.91	111.36

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	556	0	251	14	0
1	D	556	0	251	14	0
1	O	556	0	251	17	0
1	P	556	0	251	12	0
1	a	556	0	251	16	0
1	b	556	0	251	16	0
1	e	556	0	251	14	0
1	f	556	0	251	16	0
1	g	556	0	251	14	0
1	t	556	0	251	14	0
1	u	556	0	251	17	0
1	v	556	0	251	14	0
2	1	619	0	291	28	0
2	2	619	0	291	30	0
2	4	619	0	291	31	0
2	5	619	0	291	31	0
2	6	619	0	291	33	0
2	7	619	0	291	30	0
2	8	619	0	291	30	0
2	9	619	0	291	28	0
2	B	619	0	291	28	0
2	C	619	0	291	29	0
2	E	619	0	291	33	0
2	F	619	0	291	28	0
2	G	619	0	291	30	0
2	H	619	0	291	31	0
2	I	619	0	291	28	0
2	J	619	0	291	28	0
2	K	619	0	291	31	0
2	L	619	0	291	27	0
2	M	619	0	291	29	0
2	N	619	0	291	29	0
2	Q	619	0	291	28	0
2	R	619	0	291	29	0
2	S	619	0	291	30	0
2	T	619	0	291	29	0
2	U	619	0	291	27	0
2	V	619	0	291	31	0
2	W	619	0	291	26	0
2	X	619	0	291	30	0
2	Y	619	0	291	32	0
2	Z	619	0	291	29	0
2	c	619	0	291	28	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	d	619	0	291	26	0
2	h	619	0	291	28	0
2	i	619	0	291	27	0
2	j	619	0	291	32	0
2	k	619	0	291	28	0
2	l	619	0	291	30	0
2	m	619	0	291	31	0
2	n	619	0	291	28	0
2	o	619	0	291	27	0
2	p	619	0	291	30	0
2	q	619	0	291	30	0
2	r	619	0	291	28	0
2	s	619	0	291	28	0
2	w	619	0	291	29	0
2	x	619	0	291	30	0
2	y	619	0	291	30	0
2	z	619	0	291	29	0
All	All	36384	0	16980	1513	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 28.

All (1513) 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)
2:y:261:PRO:CB	2:8:211:LEU:CB	2.22	1.17
2:E:261:PRO:CB	2:M:211:LEU:CB	2.25	1.13
2:H:261:PRO:CB	2:K:211:LEU:CB	2.32	1.08
2:S:261:PRO:CB	2:c:211:LEU:CB	2.33	1.07
2:m:261:PRO:CB	2:p:211:LEU:CB	2.39	1.01
2:F:261:PRO:CB	2:R:211:LEU:CB	2.43	0.96
2:2:261:PRO:CB	2:6:211:LEU:CB	2.44	0.95
2:j:261:PRO:CB	2:r:211:LEU:CB	2.46	0.93
2:Z:211:LEU:CB	2:d:261:PRO:CB	2.48	0.92
1:f:103:CYS:H	2:o:251:GLY:HA3	1.37	0.90
2:k:261:PRO:CB	2:x:211:LEU:CB	2.50	0.90
2:V:261:PRO:CB	2:Y:211:LEU:CB	2.50	0.88
2:i:211:LEU:CB	2:z:261:PRO:CB	2.50	0.88
1:b:36:ASP:CB	2:L:261:PRO:CB	2.52	0.87
2:I:211:LEU:CB	2:8:261:PRO:CB	2.53	0.86
2:U:261:PRO:CB	2:j:211:LEU:CB	2.54	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:105:ALA:HB3	1:O:110:GLY:HA3	1.59	0.85
1:e:105:ALA:HB3	1:e:110:GLY:HA3	1.59	0.85
1:u:105:ALA:HB3	1:u:110:GLY:HA3	1.59	0.85
1:a:105:ALA:HB3	1:a:110:GLY:HA3	1.59	0.84
1:f:105:ALA:HB3	1:f:110:GLY:HA3	1.59	0.83
1:t:105:ALA:HB3	1:t:110:GLY:HA3	1.59	0.83
1:D:105:ALA:HB3	1:D:110:GLY:HA3	1.59	0.83
1:b:105:ALA:HB3	1:b:110:GLY:HA3	1.59	0.83
1:g:105:ALA:HB3	1:g:110:GLY:HA3	1.59	0.83
1:A:105:ALA:HB3	1:A:110:GLY:HA3	1.59	0.83
1:P:105:ALA:HB3	1:P:110:GLY:HA3	1.59	0.82
1:v:105:ALA:HB3	1:v:110:GLY:HA3	1.59	0.82
2:C:211:LEU:CB	2:T:261:PRO:CB	2.58	0.81
1:b:103:CYS:H	2:J:251:GLY:HA3	1.46	0.80
2:E:211:LEU:CB	2:1:261:PRO:CB	2.61	0.79
2:B:261:PRO:CB	2:G:211:LEU:CB	2.62	0.76
1:u:103:CYS:H	2:5:251:GLY:HA3	1.50	0.76
2:Q:261:PRO:CB	2:U:211:LEU:CB	2.65	0.75
2:S:183:THR:HA	2:S:191:MET:O	1.87	0.75
2:y:183:THR:HA	2:y:191:MET:O	1.87	0.75
2:T:183:THR:HA	2:T:191:MET:O	1.87	0.74
2:V:183:THR:HA	2:V:191:MET:O	1.87	0.74
2:4:183:THR:HA	2:4:191:MET:O	1.87	0.74
2:5:183:THR:HA	2:5:191:MET:O	1.87	0.74
2:X:183:THR:HA	2:X:191:MET:O	1.87	0.74
2:c:183:THR:HA	2:c:191:MET:O	1.87	0.74
2:2:183:THR:HA	2:2:191:MET:O	1.87	0.74
2:9:183:THR:HA	2:9:191:MET:O	1.87	0.74
2:N:183:THR:HA	2:N:191:MET:O	1.87	0.74
2:W:183:THR:HA	2:W:191:MET:O	1.87	0.74
2:s:183:THR:HA	2:s:191:MET:O	1.88	0.74
2:z:183:THR:HA	2:z:191:MET:O	1.88	0.74
2:8:183:THR:HA	2:8:191:MET:O	1.87	0.74
2:d:183:THR:HA	2:d:191:MET:O	1.87	0.74
2:l:183:THR:HA	2:l:191:MET:O	1.87	0.74
2:r:183:THR:HA	2:r:191:MET:O	1.87	0.74
2:G:183:THR:HA	2:G:191:MET:O	1.87	0.74
2:M:183:THR:HA	2:M:191:MET:O	1.87	0.74
2:U:183:THR:HA	2:U:191:MET:O	1.87	0.74
2:Y:183:THR:HA	2:Y:191:MET:O	1.87	0.74
2:o:183:THR:HA	2:o:191:MET:O	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:183:THR:HA	2:J:191:MET:O	1.87	0.74
2:i:183:THR:HA	2:i:191:MET:O	1.88	0.74
2:6:183:THR:HA	2:6:191:MET:O	1.88	0.74
2:C:183:THR:HA	2:C:191:MET:O	1.87	0.74
2:L:183:THR:HA	2:L:191:MET:O	1.88	0.74
2:1:183:THR:HA	2:1:191:MET:O	1.88	0.74
2:B:183:THR:HA	2:B:191:MET:O	1.87	0.74
2:h:261:PRO:CB	2:l:211:LEU:CB	2.66	0.74
2:h:183:THR:HA	2:h:191:MET:O	1.87	0.73
2:q:183:THR:HA	2:q:191:MET:O	1.87	0.73
2:j:183:THR:HA	2:j:191:MET:O	1.87	0.73
2:k:183:THR:HA	2:k:191:MET:O	1.87	0.73
2:H:183:THR:HA	2:H:191:MET:O	1.87	0.73
2:Q:183:THR:HA	2:Q:191:MET:O	1.87	0.73
2:S:211:LEU:CB	2:l:261:PRO:CB	2.66	0.73
2:Z:183:THR:HA	2:Z:191:MET:O	1.87	0.73
2:w:183:THR:HA	2:w:191:MET:O	1.87	0.73
2:7:183:THR:HA	2:7:191:MET:O	1.87	0.73
2:E:183:THR:HA	2:E:191:MET:O	1.87	0.73
2:I:183:THR:HA	2:I:191:MET:O	1.87	0.73
2:m:183:THR:HA	2:m:191:MET:O	1.88	0.73
2:F:183:THR:HA	2:F:191:MET:O	1.87	0.73
2:R:183:THR:HA	2:R:191:MET:O	1.88	0.73
2:x:183:THR:HA	2:x:191:MET:O	1.87	0.73
2:n:183:THR:HA	2:n:191:MET:O	1.87	0.73
2:p:183:THR:HA	2:p:191:MET:O	1.88	0.72
2:K:183:THR:HA	2:K:191:MET:O	1.87	0.72
1:P:36:ASP:CB	2:X:261:PRO:CB	2.67	0.72
1:O:103:CYS:H	2:X:251:GLY:HA3	1.54	0.72
2:I:196:GLY:H	2:I:230:ALA:H	1.38	0.72
2:L:196:GLY:H	2:L:230:ALA:H	1.38	0.72
2:d:196:GLY:H	2:d:230:ALA:H	1.38	0.72
1:v:114:LEU:O	1:v:115:GLU:C	2.33	0.72
2:J:196:GLY:H	2:J:230:ALA:H	1.38	0.72
2:n:196:GLY:H	2:n:230:ALA:H	1.38	0.72
2:7:196:GLY:H	2:7:230:ALA:H	1.38	0.72
2:E:196:GLY:H	2:E:230:ALA:H	1.38	0.72
2:H:196:GLY:H	2:H:230:ALA:H	1.38	0.72
2:R:196:GLY:H	2:R:230:ALA:H	1.38	0.72
2:Z:196:GLY:H	2:Z:230:ALA:H	1.38	0.72
2:o:196:GLY:H	2:o:230:ALA:H	1.38	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:114:LEU:O	1:P:115:GLU:C	2.33	0.72
2:j:196:GLY:H	2:j:230:ALA:H	1.38	0.72
2:m:196:GLY:H	2:m:230:ALA:H	1.38	0.72
2:q:196:GLY:H	2:q:230:ALA:H	1.38	0.72
1:D:114:LEU:O	1:D:115:GLU:C	2.33	0.71
2:x:196:GLY:H	2:x:230:ALA:H	1.38	0.71
2:9:196:GLY:H	2:9:230:ALA:H	1.38	0.71
2:N:196:GLY:H	2:N:230:ALA:H	1.38	0.71
2:B:211:LEU:CB	2:I:261:PRO:CB	2.69	0.71
2:B:196:GLY:H	2:B:230:ALA:H	1.38	0.71
1:t:114:LEU:O	1:t:115:GLU:C	2.33	0.71
2:V:196:GLY:H	2:V:230:ALA:H	1.38	0.71
2:2:196:GLY:H	2:2:230:ALA:H	1.38	0.71
2:s:196:GLY:H	2:s:230:ALA:H	1.38	0.71
1:g:114:LEU:O	1:g:115:GLU:C	2.33	0.71
2:h:196:GLY:H	2:h:230:ALA:H	1.38	0.71
1:A:114:LEU:O	1:A:115:GLU:C	2.33	0.71
2:U:196:GLY:H	2:U:230:ALA:H	1.38	0.71
2:S:196:GLY:H	2:S:230:ALA:H	1.38	0.71
2:X:196:GLY:H	2:X:230:ALA:H	1.38	0.71
2:y:196:GLY:H	2:y:230:ALA:H	1.38	0.71
2:C:196:GLY:H	2:C:230:ALA:H	1.38	0.70
2:l:196:GLY:H	2:l:230:ALA:H	1.38	0.70
1:O:114:LEU:O	1:O:115:GLU:C	2.33	0.70
2:W:196:GLY:H	2:W:230:ALA:H	1.38	0.70
1:e:114:LEU:O	1:e:115:GLU:C	2.33	0.70
1:f:114:LEU:O	1:f:115:GLU:C	2.33	0.70
2:G:196:GLY:H	2:G:230:ALA:H	1.38	0.70
2:i:196:GLY:H	2:i:230:ALA:H	1.38	0.70
2:r:196:GLY:H	2:r:230:ALA:H	1.38	0.70
2:1:196:GLY:H	2:1:230:ALA:H	1.38	0.70
2:4:196:GLY:H	2:4:230:ALA:H	1.38	0.70
2:5:196:GLY:H	2:5:230:ALA:H	1.38	0.70
1:a:114:LEU:O	1:a:115:GLU:C	2.33	0.70
1:b:114:LEU:O	1:b:115:GLU:C	2.33	0.70
1:u:114:LEU:O	1:u:115:GLU:C	2.33	0.70
2:M:196:GLY:H	2:M:230:ALA:H	1.38	0.70
2:w:261:PRO:CB	2:1:211:LEU:CB	2.70	0.70
2:c:261:PRO:CB	2:n:211:LEU:CB	2.70	0.70
2:K:196:GLY:H	2:K:230:ALA:H	1.38	0.69
2:Q:196:GLY:H	2:Q:230:ALA:H	1.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:w:196:GLY:H	2:w:230:ALA:H	1.38	0.69
2:F:196:GLY:H	2:F:230:ALA:H	1.38	0.69
2:p:196:GLY:H	2:p:230:ALA:H	1.38	0.69
2:k:196:GLY:H	2:k:230:ALA:H	1.38	0.69
2:6:196:GLY:H	2:6:230:ALA:H	1.38	0.69
2:M:223:ILE:HA	2:M:255:LEU:H	1.58	0.69
2:T:197:ILE:H	2:T:230:ALA:HB3	1.58	0.69
2:Y:196:GLY:H	2:Y:230:ALA:H	1.38	0.69
2:r:223:ILE:HA	2:r:255:LEU:H	1.58	0.69
2:G:223:ILE:HA	2:G:255:LEU:H	1.58	0.69
2:Q:223:ILE:HA	2:Q:255:LEU:H	1.58	0.69
2:S:197:ILE:H	2:S:230:ALA:HB3	1.58	0.69
2:T:223:ILE:HA	2:T:255:LEU:H	1.58	0.69
2:c:223:ILE:HA	2:c:255:LEU:H	1.58	0.69
2:d:197:ILE:H	2:d:230:ALA:HB3	1.58	0.69
2:l:223:ILE:HA	2:l:255:LEU:H	1.58	0.69
2:y:197:ILE:H	2:y:230:ALA:HB3	1.58	0.69
2:z:197:ILE:H	2:z:230:ALA:HB3	1.58	0.69
2:z:223:ILE:HA	2:z:255:LEU:H	1.58	0.69
2:8:223:ILE:HA	2:8:255:LEU:H	1.58	0.69
2:I:197:ILE:H	2:I:230:ALA:HB3	1.58	0.69
2:q:197:ILE:H	2:q:230:ALA:HB3	1.58	0.69
2:9:197:ILE:H	2:9:230:ALA:HB3	1.58	0.69
2:C:223:ILE:HA	2:C:255:LEU:H	1.58	0.68
2:d:223:ILE:HA	2:d:255:LEU:H	1.58	0.68
2:i:223:ILE:HA	2:i:255:LEU:H	1.58	0.68
2:n:197:ILE:H	2:n:230:ALA:HB3	1.58	0.68
2:w:223:ILE:HA	2:w:255:LEU:H	1.58	0.68
2:2:197:ILE:H	2:2:230:ALA:HB3	1.58	0.68
2:I:223:ILE:HA	2:I:255:LEU:H	1.58	0.68
2:J:197:ILE:H	2:J:230:ALA:HB3	1.58	0.68
2:S:223:ILE:HA	2:S:255:LEU:H	1.58	0.68
2:T:196:GLY:H	2:T:230:ALA:H	1.38	0.68
2:j:197:ILE:H	2:j:230:ALA:HB3	1.58	0.68
2:z:196:GLY:H	2:z:230:ALA:H	1.38	0.68
2:C:197:ILE:H	2:C:230:ALA:HB3	1.58	0.68
2:L:197:ILE:H	2:L:230:ALA:HB3	1.58	0.68
2:V:197:ILE:H	2:V:230:ALA:HB3	1.58	0.68
2:n:223:ILE:HA	2:n:255:LEU:H	1.58	0.68
2:o:197:ILE:H	2:o:230:ALA:HB3	1.58	0.68
2:y:223:ILE:HA	2:y:255:LEU:H	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:197:ILE:H	2:E:230:ALA:HB3	1.58	0.68
2:J:223:ILE:HA	2:J:255:LEU:H	1.58	0.68
2:i:197:ILE:H	2:i:230:ALA:HB3	1.58	0.68
2:o:223:ILE:HA	2:o:255:LEU:H	1.58	0.68
2:x:197:ILE:H	2:x:230:ALA:HB3	1.58	0.68
2:4:223:ILE:HA	2:4:255:LEU:H	1.58	0.68
2:k:223:ILE:HA	2:k:255:LEU:H	1.58	0.68
2:4:197:ILE:H	2:4:230:ALA:HB3	1.58	0.68
2:9:223:ILE:HA	2:9:255:LEU:H	1.58	0.68
2:F:197:ILE:H	2:F:230:ALA:HB3	1.58	0.68
2:K:197:ILE:H	2:K:230:ALA:HB3	1.58	0.68
2:R:197:ILE:H	2:R:230:ALA:HB3	1.58	0.68
2:k:197:ILE:H	2:k:230:ALA:HB3	1.58	0.68
2:1:223:ILE:HA	2:1:255:LEU:H	1.58	0.68
2:F:223:ILE:HA	2:F:255:LEU:H	1.58	0.68
2:Q:197:ILE:H	2:Q:230:ALA:HB3	1.58	0.68
2:W:197:ILE:H	2:W:230:ALA:HB3	1.58	0.68
2:W:223:ILE:HA	2:W:255:LEU:H	1.58	0.68
2:m:223:ILE:HA	2:m:255:LEU:H	1.58	0.68
2:w:197:ILE:H	2:w:230:ALA:HB3	1.58	0.68
2:U:197:ILE:H	2:U:230:ALA:HB3	1.58	0.68
2:X:197:ILE:H	2:X:230:ALA:HB3	1.58	0.68
2:7:223:ILE:HA	2:7:255:LEU:H	1.58	0.68
2:H:223:ILE:HA	2:H:255:LEU:H	1.58	0.68
2:R:223:ILE:HA	2:R:255:LEU:H	1.58	0.68
2:U:223:ILE:HA	2:U:255:LEU:H	1.58	0.68
2:p:197:ILE:H	2:p:230:ALA:HB3	1.58	0.68
2:r:197:ILE:H	2:r:230:ALA:HB3	1.58	0.68
2:6:223:ILE:HA	2:6:255:LEU:H	1.58	0.68
2:X:223:ILE:HA	2:X:255:LEU:H	1.58	0.68
2:5:223:ILE:HA	2:5:255:LEU:H	1.58	0.68
2:B:197:ILE:H	2:B:230:ALA:HB3	1.58	0.67
2:M:197:ILE:H	2:M:230:ALA:HB3	1.58	0.67
2:Y:223:ILE:HA	2:Y:255:LEU:H	1.58	0.67
2:Z:197:ILE:H	2:Z:230:ALA:HB3	1.58	0.67
2:Z:223:ILE:HA	2:Z:255:LEU:H	1.58	0.67
2:h:197:ILE:H	2:h:230:ALA:HB3	1.58	0.67
2:l:197:ILE:H	2:l:230:ALA:HB3	1.58	0.67
2:p:223:ILE:HA	2:p:255:LEU:H	1.58	0.67
2:5:197:ILE:H	2:5:230:ALA:HB3	1.58	0.67
2:7:197:ILE:H	2:7:230:ALA:HB3	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:223:ILE:HA	2:E:255:LEU:H	1.58	0.67
2:1:197:ILE:H	2:1:230:ALA:HB3	1.58	0.67
2:B:223:ILE:HA	2:B:255:LEU:H	1.58	0.67
2:G:197:ILE:H	2:G:230:ALA:HB3	1.58	0.67
2:L:223:ILE:HA	2:L:255:LEU:H	1.58	0.67
2:V:223:ILE:HA	2:V:255:LEU:H	1.58	0.67
2:s:197:ILE:H	2:s:230:ALA:HB3	1.58	0.67
2:K:223:ILE:HA	2:K:255:LEU:H	1.58	0.67
2:N:197:ILE:H	2:N:230:ALA:HB3	1.58	0.67
2:c:196:GLY:H	2:c:230:ALA:H	1.38	0.67
2:x:223:ILE:HA	2:x:255:LEU:H	1.58	0.67
2:h:223:ILE:HA	2:h:255:LEU:H	1.58	0.67
2:8:196:GLY:H	2:8:230:ALA:H	1.38	0.67
2:N:223:ILE:HA	2:N:255:LEU:H	1.58	0.67
2:s:223:ILE:HA	2:s:255:LEU:H	1.58	0.67
2:2:223:ILE:HA	2:2:255:LEU:H	1.58	0.67
2:6:197:ILE:H	2:6:230:ALA:HB3	1.58	0.67
2:Y:197:ILE:H	2:Y:230:ALA:HB3	1.58	0.67
2:j:223:ILE:HA	2:j:255:LEU:H	1.58	0.67
2:m:197:ILE:H	2:m:230:ALA:HB3	1.58	0.67
2:q:211:LEU:CB	2:s:261:PRO:CB	2.73	0.67
2:H:197:ILE:H	2:H:230:ALA:HB3	1.58	0.66
2:c:197:ILE:H	2:c:230:ALA:HB3	1.58	0.66
2:q:223:ILE:HA	2:q:255:LEU:H	1.58	0.66
2:w:211:LEU:CB	2:4:261:PRO:CB	2.73	0.66
2:8:197:ILE:H	2:8:230:ALA:HB3	1.58	0.66
1:O:36:ASP:CB	2:Z:261:PRO:CB	2.73	0.66
2:M:261:PRO:CB	2:4:211:LEU:CB	2.74	0.66
1:t:36:ASP:CB	2:x:261:PRO:CB	2.74	0.65
2:W:211:LEU:CB	2:r:261:PRO:CB	2.76	0.63
2:M:191:MET:HA	2:M:223:ILE:H	1.64	0.63
2:x:191:MET:HA	2:x:223:ILE:H	1.64	0.63
2:R:191:MET:HA	2:R:223:ILE:H	1.64	0.63
2:W:191:MET:HA	2:W:223:ILE:H	1.64	0.63
2:4:191:MET:HA	2:4:223:ILE:H	1.64	0.63
2:L:191:MET:HA	2:L:223:ILE:H	1.64	0.63
2:S:191:MET:HA	2:S:223:ILE:H	1.64	0.63
2:r:191:MET:HA	2:r:223:ILE:H	1.64	0.63
2:s:191:MET:HA	2:s:223:ILE:H	1.64	0.63
2:G:191:MET:HA	2:G:223:ILE:H	1.64	0.63
2:U:191:MET:HA	2:U:223:ILE:H	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:191:MET:HA	2:X:223:ILE:H	1.64	0.63
2:y:191:MET:HA	2:y:223:ILE:H	1.64	0.63
1:a:36:ASP:CB	2:C:261:PRO:CB	2.77	0.62
2:N:191:MET:HA	2:N:223:ILE:H	1.64	0.62
2:I:191:MET:HA	2:I:223:ILE:H	1.64	0.62
2:Z:191:MET:HA	2:Z:223:ILE:H	1.64	0.62
2:l:191:MET:HA	2:l:223:ILE:H	1.64	0.62
2:o:191:MET:HA	2:o:223:ILE:H	1.64	0.62
2:q:191:MET:HA	2:q:223:ILE:H	1.64	0.62
2:1:191:MET:HA	2:1:223:ILE:H	1.64	0.62
2:5:191:MET:HA	2:5:223:ILE:H	1.64	0.62
2:J:191:MET:HA	2:J:223:ILE:H	1.64	0.62
2:V:191:MET:HA	2:V:223:ILE:H	1.64	0.62
2:i:191:MET:HA	2:i:223:ILE:H	1.64	0.62
2:7:191:MET:HA	2:7:223:ILE:H	1.64	0.62
2:C:191:MET:HA	2:C:223:ILE:H	1.64	0.62
2:p:191:MET:HA	2:p:223:ILE:H	1.64	0.62
2:2:191:MET:HA	2:2:223:ILE:H	1.64	0.62
2:n:191:MET:HA	2:n:223:ILE:H	1.64	0.62
2:F:191:MET:HA	2:F:223:ILE:H	1.64	0.62
2:8:191:MET:HA	2:8:223:ILE:H	1.64	0.62
2:K:191:MET:HA	2:K:223:ILE:H	1.64	0.62
2:T:191:MET:HA	2:T:223:ILE:H	1.64	0.62
2:c:191:MET:HA	2:c:223:ILE:H	1.64	0.62
2:z:191:MET:HA	2:z:223:ILE:H	1.64	0.62
2:B:191:MET:HA	2:B:223:ILE:H	1.64	0.62
2:h:191:MET:HA	2:h:223:ILE:H	1.64	0.62
2:k:191:MET:HA	2:k:223:ILE:H	1.64	0.61
2:w:191:MET:HA	2:w:223:ILE:H	1.64	0.61
2:Q:191:MET:HA	2:Q:223:ILE:H	1.64	0.61
2:d:191:MET:HA	2:d:223:ILE:H	1.64	0.61
2:9:191:MET:HA	2:9:223:ILE:H	1.64	0.61
2:H:191:MET:HA	2:H:223:ILE:H	1.64	0.61
2:j:191:MET:HA	2:j:223:ILE:H	1.64	0.61
2:L:211:LEU:CB	2:N:261:PRO:CB	2.78	0.61
2:E:191:MET:HA	2:E:223:ILE:H	1.64	0.61
2:m:191:MET:HA	2:m:223:ILE:H	1.64	0.61
2:Y:191:MET:HA	2:Y:223:ILE:H	1.64	0.60
2:6:191:MET:HA	2:6:223:ILE:H	1.64	0.60
2:Q:211:LEU:CB	2:W:261:PRO:CB	2.80	0.60
2:H:261:PRO:CB	2:K:211:LEU:CA	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:r:239:HIS:O	2:r:243:ILE:N	2.33	0.56
2:w:257:SER:O	2:w:282:THR:N	2.38	0.56
2:E:257:SER:O	2:E:282:THR:N	2.38	0.56
2:Q:257:SER:O	2:Q:282:THR:N	2.38	0.56
2:j:257:SER:O	2:j:282:THR:N	2.38	0.56
2:m:257:SER:O	2:m:282:THR:N	2.38	0.56
2:z:211:LEU:CB	2:6:261:PRO:CB	2.84	0.56
2:H:257:SER:O	2:H:282:THR:N	2.38	0.56
2:J:257:SER:O	2:J:282:THR:N	2.38	0.56
2:M:239:HIS:O	2:M:243:ILE:N	2.33	0.56
2:d:257:SER:O	2:d:282:THR:N	2.38	0.56
2:o:257:SER:O	2:o:282:THR:N	2.38	0.56
2:z:257:SER:O	2:z:282:THR:N	2.38	0.56
1:P:83:LEU:O	1:P:87:VAL:N	2.39	0.56
1:v:83:LEU:O	1:v:87:VAL:N	2.39	0.56
2:T:257:SER:O	2:T:282:THR:N	2.38	0.56
2:9:257:SER:O	2:9:282:THR:N	2.38	0.56
2:p:257:SER:O	2:p:282:THR:N	2.38	0.56
2:K:257:SER:O	2:K:282:THR:N	2.38	0.56
2:M:257:SER:O	2:M:282:THR:N	2.38	0.56
2:r:257:SER:O	2:r:282:THR:N	2.38	0.56
2:x:257:SER:O	2:x:282:THR:N	2.38	0.56
2:y:239:HIS:O	2:y:243:ILE:N	2.33	0.56
1:f:83:LEU:O	1:f:87:VAL:N	2.39	0.56
2:C:193:PRO:HA	2:C:225:ASP:O	2.06	0.56
2:R:257:SER:O	2:R:282:THR:N	2.38	0.56
2:l:257:SER:O	2:l:282:THR:N	2.38	0.56
2:N:257:SER:O	2:N:282:THR:N	2.38	0.56
2:i:193:PRO:HA	2:i:225:ASP:O	2.06	0.56
2:i:257:SER:O	2:i:282:THR:N	2.38	0.56
2:q:257:SER:O	2:q:282:THR:N	2.38	0.56
2:4:257:SER:O	2:4:282:THR:N	2.38	0.56
1:b:83:LEU:O	1:b:87:VAL:N	2.39	0.56
2:G:257:SER:O	2:G:282:THR:N	2.38	0.56
2:N:239:HIS:O	2:N:243:ILE:N	2.33	0.56
2:X:193:PRO:HA	2:X:225:ASP:O	2.06	0.56
2:s:257:SER:O	2:s:282:THR:N	2.38	0.56
2:z:193:PRO:HA	2:z:225:ASP:O	2.06	0.56
1:D:83:LEU:O	1:D:87:VAL:N	2.39	0.56
2:I:257:SER:O	2:I:282:THR:N	2.38	0.56
2:T:193:PRO:HA	2:T:225:ASP:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:257:SER:O	2:W:282:THR:N	2.38	0.56
2:5:193:PRO:HA	2:5:225:ASP:O	2.06	0.56
2:F:193:PRO:HA	2:F:225:ASP:O	2.06	0.55
2:S:239:HIS:O	2:S:243:ILE:N	2.33	0.55
2:V:193:PRO:HA	2:V:225:ASP:O	2.06	0.55
2:q:193:PRO:HA	2:q:225:ASP:O	2.06	0.55
2:2:193:PRO:HA	2:2:225:ASP:O	2.06	0.55
2:4:193:PRO:HA	2:4:225:ASP:O	2.06	0.55
1:t:83:LEU:O	1:t:87:VAL:N	2.39	0.55
2:Z:193:PRO:HA	2:Z:225:ASP:O	2.06	0.55
2:5:257:SER:O	2:5:282:THR:N	2.38	0.55
2:X:257:SER:O	2:X:282:THR:N	2.38	0.55
2:h:193:PRO:HA	2:h:225:ASP:O	2.06	0.55
2:k:193:PRO:HA	2:k:225:ASP:O	2.06	0.55
2:l:193:PRO:HA	2:l:225:ASP:O	2.06	0.55
2:7:193:PRO:HA	2:7:225:ASP:O	2.06	0.55
2:G:193:PRO:HA	2:G:225:ASP:O	2.06	0.55
2:M:193:PRO:HA	2:M:225:ASP:O	2.06	0.55
2:n:257:SER:O	2:n:282:THR:N	2.38	0.55
2:2:257:SER:O	2:2:282:THR:N	2.38	0.55
2:B:193:PRO:HA	2:B:225:ASP:O	2.06	0.55
2:F:257:SER:O	2:F:282:THR:N	2.38	0.55
2:L:257:SER:O	2:L:282:THR:N	2.38	0.55
2:W:193:PRO:HA	2:W:225:ASP:O	2.06	0.55
2:C:257:SER:O	2:C:282:THR:N	2.38	0.55
2:L:193:PRO:HA	2:L:225:ASP:O	2.06	0.55
2:y:257:SER:O	2:y:282:THR:N	2.38	0.55
2:V:257:SER:O	2:V:282:THR:N	2.38	0.55
2:Y:193:PRO:HA	2:Y:225:ASP:O	2.06	0.55
2:Z:257:SER:O	2:Z:282:THR:N	2.38	0.55
2:k:257:SER:O	2:k:282:THR:N	2.38	0.55
2:p:193:PRO:HA	2:p:225:ASP:O	2.06	0.55
2:x:193:PRO:HA	2:x:225:ASP:O	2.06	0.55
2:6:193:PRO:HA	2:6:225:ASP:O	2.06	0.55
2:7:257:SER:O	2:7:282:THR:N	2.38	0.55
2:H:193:PRO:HA	2:H:225:ASP:O	2.06	0.55
2:d:193:PRO:HA	2:d:225:ASP:O	2.06	0.55
2:j:193:PRO:HA	2:j:225:ASP:O	2.06	0.55
2:r:193:PRO:HA	2:r:225:ASP:O	2.06	0.55
2:2:268:VAL:CB	2:6:246:ALA:HB2	2.37	0.55
2:E:193:PRO:HA	2:E:225:ASP:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:R:193:PRO:HA	2:R:225:ASP:O	2.06	0.55
2:S:257:SER:O	2:S:282:THR:N	2.38	0.55
2:m:193:PRO:HA	2:m:225:ASP:O	2.06	0.55
2:1:193:PRO:HA	2:1:225:ASP:O	2.06	0.55
2:8:257:SER:O	2:8:282:THR:N	2.38	0.55
2:I:193:PRO:HA	2:I:225:ASP:O	2.06	0.55
2:N:193:PRO:HA	2:N:225:ASP:O	2.06	0.55
2:U:257:SER:O	2:U:282:THR:N	2.38	0.55
2:Y:257:SER:O	2:Y:282:THR:N	2.38	0.55
2:c:193:PRO:HA	2:c:225:ASP:O	2.06	0.55
2:c:257:SER:O	2:c:282:THR:N	2.38	0.55
2:8:193:PRO:HA	2:8:225:ASP:O	2.06	0.55
2:K:193:PRO:HA	2:K:225:ASP:O	2.06	0.54
2:Q:193:PRO:HA	2:Q:225:ASP:O	2.06	0.54
2:s:193:PRO:HA	2:s:225:ASP:O	2.06	0.54
2:y:193:PRO:HA	2:y:225:ASP:O	2.06	0.54
2:6:257:SER:O	2:6:282:THR:N	2.38	0.54
2:J:193:PRO:HA	2:J:225:ASP:O	2.06	0.54
2:S:193:PRO:HA	2:S:225:ASP:O	2.06	0.54
2:U:193:PRO:HA	2:U:225:ASP:O	2.06	0.54
2:n:193:PRO:HA	2:n:225:ASP:O	2.06	0.54
2:w:193:PRO:HA	2:w:225:ASP:O	2.06	0.54
2:h:257:SER:O	2:h:282:THR:N	2.38	0.54
2:F:224:MET:O	2:F:256:VAL:HA	2.08	0.54
2:c:224:MET:O	2:c:256:VAL:HA	2.08	0.54
2:k:224:MET:O	2:k:256:VAL:HA	2.08	0.54
2:o:193:PRO:HA	2:o:225:ASP:O	2.06	0.54
2:p:224:MET:O	2:p:256:VAL:HA	2.08	0.54
2:7:211:LEU:CB	2:9:261:PRO:CB	2.86	0.54
1:P:105:ALA:CB	1:P:110:GLY:HA3	2.35	0.54
1:v:105:ALA:CB	1:v:110:GLY:HA3	2.35	0.54
2:1:257:SER:O	2:1:282:THR:N	2.38	0.54
2:8:224:MET:O	2:8:256:VAL:HA	2.08	0.54
2:9:193:PRO:HA	2:9:225:ASP:O	2.06	0.54
2:K:224:MET:O	2:K:256:VAL:HA	2.08	0.54
2:W:224:MET:O	2:W:256:VAL:HA	2.08	0.54
2:X:224:MET:O	2:X:256:VAL:HA	2.08	0.54
2:j:239:HIS:O	2:j:243:ILE:N	2.33	0.54
2:5:224:MET:O	2:5:256:VAL:HA	2.08	0.54
1:u:36:ASP:CB	2:7:261:PRO:CB	2.86	0.54
1:u:105:ALA:CB	1:u:110:GLY:HA3	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:224:MET:O	2:J:256:VAL:HA	2.08	0.54
2:T:211:LEU:CB	2:Y:261:PRO:CB	2.86	0.54
2:d:224:MET:O	2:d:256:VAL:HA	2.08	0.54
2:o:224:MET:O	2:o:256:VAL:HA	2.08	0.54
2:Q:224:MET:O	2:Q:256:VAL:HA	2.08	0.54
2:w:224:MET:O	2:w:256:VAL:HA	2.08	0.54
2:4:224:MET:O	2:4:256:VAL:HA	2.08	0.54
2:E:239:HIS:O	2:E:243:ILE:N	2.33	0.54
2:H:224:MET:O	2:H:256:VAL:HA	2.08	0.54
2:L:224:MET:O	2:L:256:VAL:HA	2.08	0.54
1:a:83:LEU:O	1:a:87:VAL:N	2.39	0.54
1:e:83:LEU:O	1:e:87:VAL:N	2.38	0.54
1:f:105:ALA:CB	1:f:110:GLY:HA3	2.35	0.54
2:L:196:GLY:N	2:L:230:ALA:H	2.06	0.54
2:R:237:ALA:O	2:R:238:ASN:C	2.51	0.54
2:S:224:MET:O	2:S:256:VAL:HA	2.08	0.54
2:S:237:ALA:O	2:S:238:ASN:C	2.51	0.54
2:Z:237:ALA:O	2:Z:238:ASN:C	2.51	0.54
2:k:211:LEU:CB	2:p:261:PRO:CB	2.86	0.54
2:m:224:MET:O	2:m:256:VAL:HA	2.08	0.54
2:q:196:GLY:N	2:q:230:ALA:H	2.06	0.54
2:y:224:MET:O	2:y:256:VAL:HA	2.08	0.54
2:y:237:ALA:O	2:y:238:ASN:C	2.51	0.54
2:4:284:ARG:HA	2:5:186:TRP:CB	2.38	0.54
2:7:237:ALA:O	2:7:238:ASN:C	2.51	0.54
2:9:224:MET:O	2:9:256:VAL:HA	2.08	0.54
1:O:105:ALA:CB	1:O:110:GLY:HA3	2.35	0.53
2:C:196:GLY:N	2:C:230:ALA:H	2.06	0.53
2:G:224:MET:O	2:G:256:VAL:HA	2.08	0.53
2:U:224:MET:O	2:U:256:VAL:HA	2.08	0.53
2:d:237:ALA:O	2:d:238:ASN:C	2.51	0.53
2:l:224:MET:O	2:l:256:VAL:HA	2.08	0.53
2:r:224:MET:O	2:r:256:VAL:HA	2.08	0.53
2:x:237:ALA:O	2:x:238:ASN:C	2.52	0.53
2:6:224:MET:O	2:6:256:VAL:HA	2.08	0.53
1:b:105:ALA:CB	1:b:110:GLY:HA3	2.35	0.53
2:M:224:MET:O	2:M:256:VAL:HA	2.08	0.53
2:W:237:ALA:O	2:W:238:ASN:C	2.51	0.53
2:Y:224:MET:O	2:Y:256:VAL:HA	2.08	0.53
2:c:237:ALA:O	2:c:238:ASN:C	2.51	0.53
2:q:237:ALA:O	2:q:238:ASN:C	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:7:224:MET:O	2:7:256:VAL:HA	2.08	0.53
2:8:237:ALA:O	2:8:238:ASN:C	2.51	0.53
2:E:237:ALA:O	2:E:238:ASN:C	2.51	0.53
2:Z:224:MET:O	2:Z:256:VAL:HA	2.08	0.53
2:k:237:ALA:O	2:k:238:ASN:C	2.51	0.53
2:7:196:GLY:N	2:7:230:ALA:H	2.06	0.53
2:9:237:ALA:O	2:9:238:ASN:C	2.51	0.53
2:F:237:ALA:O	2:F:238:ASN:C	2.52	0.53
2:G:237:ALA:O	2:G:238:ASN:C	2.51	0.53
2:I:224:MET:O	2:I:256:VAL:HA	2.08	0.53
2:L:237:ALA:O	2:L:238:ASN:C	2.51	0.53
2:T:196:GLY:N	2:T:230:ALA:H	2.06	0.53
2:Z:196:GLY:N	2:Z:230:ALA:H	2.06	0.53
2:l:237:ALA:O	2:l:238:ASN:C	2.51	0.53
2:w:196:GLY:N	2:w:230:ALA:H	2.06	0.53
2:z:196:GLY:N	2:z:230:ALA:H	2.06	0.53
2:1:224:MET:O	2:1:256:VAL:HA	2.08	0.53
2:2:237:ALA:O	2:2:238:ASN:C	2.51	0.53
2:4:237:ALA:O	2:4:238:ASN:C	2.51	0.53
1:e:105:ALA:CB	1:e:110:GLY:HA3	2.35	0.53
2:G:261:PRO:CB	2:y:211:LEU:CB	2.86	0.53
2:Q:196:GLY:N	2:Q:230:ALA:H	2.06	0.53
2:V:224:MET:O	2:V:256:VAL:HA	2.08	0.53
2:j:237:ALA:O	2:j:238:ASN:C	2.52	0.53
2:n:224:MET:O	2:n:256:VAL:HA	2.08	0.53
2:q:224:MET:O	2:q:256:VAL:HA	2.08	0.53
2:z:224:MET:O	2:z:256:VAL:HA	2.08	0.53
2:B:224:MET:O	2:B:256:VAL:HA	2.08	0.53
2:E:224:MET:O	2:E:256:VAL:HA	2.08	0.53
2:H:237:ALA:O	2:H:238:ASN:C	2.51	0.53
2:K:237:ALA:O	2:K:238:ASN:C	2.51	0.53
2:V:237:ALA:O	2:V:238:ASN:C	2.52	0.53
2:X:292:LYS:C	2:X:294:VAL:N	2.67	0.53
2:Y:239:HIS:O	2:Y:243:ILE:N	2.33	0.53
2:m:237:ALA:O	2:m:238:ASN:C	2.51	0.53
2:1:239:HIS:O	2:1:243:ILE:N	2.33	0.53
2:T:224:MET:O	2:T:256:VAL:HA	2.08	0.53
2:T:237:ALA:O	2:T:238:ASN:C	2.51	0.53
2:j:224:MET:O	2:j:256:VAL:HA	2.08	0.53
2:p:237:ALA:O	2:p:238:ASN:C	2.51	0.53
2:z:237:ALA:O	2:z:238:ASN:C	2.51	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:5:292:LYS:C	2:5:294:VAL:N	2.67	0.53
2:8:292:LYS:C	2:8:294:VAL:N	2.67	0.53
2:9:196:GLY:N	2:9:230:ALA:H	2.06	0.53
1:a:105:ALA:CB	1:a:110:GLY:HA3	2.35	0.53
2:C:239:HIS:O	2:C:243:ILE:N	2.33	0.53
2:N:224:MET:O	2:N:256:VAL:HA	2.08	0.53
2:R:239:HIS:O	2:R:243:ILE:N	2.33	0.53
2:c:196:GLY:N	2:c:230:ALA:H	2.06	0.53
2:h:292:LYS:C	2:h:294:VAL:N	2.67	0.53
2:r:237:ALA:O	2:r:238:ASN:C	2.51	0.53
2:2:224:MET:O	2:2:256:VAL:HA	2.08	0.53
2:5:237:ALA:O	2:5:238:ASN:C	2.51	0.53
2:8:196:GLY:N	2:8:230:ALA:H	2.06	0.53
1:P:79:LEU:O	1:P:104:VAL:N	2.42	0.53
2:N:237:ALA:O	2:N:238:ASN:C	2.51	0.53
2:Q:237:ALA:O	2:Q:238:ASN:C	2.51	0.53
2:R:224:MET:O	2:R:256:VAL:HA	2.08	0.53
2:d:196:GLY:N	2:d:230:ALA:H	2.06	0.53
2:h:224:MET:O	2:h:256:VAL:HA	2.08	0.53
2:i:224:MET:O	2:i:256:VAL:HA	2.08	0.53
2:l:292:LYS:C	2:l:294:VAL:N	2.67	0.53
2:m:261:PRO:CB	2:p:211:LEU:CA	2.87	0.53
2:s:224:MET:O	2:s:256:VAL:HA	2.08	0.53
2:s:237:ALA:O	2:s:238:ASN:C	2.51	0.53
2:6:239:HIS:O	2:6:243:ILE:N	2.33	0.53
2:B:237:ALA:O	2:B:238:ASN:C	2.51	0.53
2:B:290:ALA:O	2:B:294:VAL:N	2.42	0.53
1:g:83:LEU:O	1:g:87:VAL:N	2.39	0.53
2:G:292:LYS:C	2:G:294:VAL:N	2.67	0.53
2:d:239:HIS:O	2:d:243:ILE:N	2.33	0.53
2:w:237:ALA:O	2:w:238:ASN:C	2.51	0.53
2:x:224:MET:O	2:x:256:VAL:HA	2.08	0.53
2:9:239:HIS:O	2:9:243:ILE:N	2.33	0.53
2:C:237:ALA:O	2:C:238:ASN:C	2.51	0.52
2:I:292:LYS:C	2:I:294:VAL:N	2.67	0.52
2:M:237:ALA:O	2:M:238:ASN:C	2.51	0.52
1:O:83:LEU:O	1:O:87:VAL:N	2.39	0.52
2:C:224:MET:O	2:C:256:VAL:HA	2.08	0.52
2:S:196:GLY:N	2:S:230:ALA:H	2.06	0.52
2:o:292:LYS:C	2:o:294:VAL:N	2.67	0.52
2:x:239:HIS:O	2:x:243:ILE:N	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:X:237:ALA:O	2:X:238:ASN:C	2.51	0.52
2:h:237:ALA:O	2:h:238:ASN:C	2.51	0.52
1:u:83:LEU:O	1:u:87:VAL:N	2.38	0.52
1:v:79:LEU:O	1:v:104:VAL:N	2.43	0.52
2:I:237:ALA:O	2:I:238:ASN:C	2.51	0.52
2:U:239:HIS:O	2:U:243:ILE:N	2.33	0.52
2:i:237:ALA:O	2:i:238:ASN:C	2.51	0.52
2:n:292:LYS:C	2:n:294:VAL:N	2.67	0.52
1:A:83:LEU:O	1:A:87:VAL:N	2.38	0.52
2:J:292:LYS:C	2:J:294:VAL:N	2.67	0.52
2:n:237:ALA:O	2:n:238:ASN:C	2.51	0.52
2:y:196:GLY:N	2:y:230:ALA:H	2.06	0.52
1:D:79:LEU:O	1:D:104:VAL:N	2.41	0.52
2:Q:292:LYS:C	2:Q:294:VAL:N	2.67	0.52
2:c:239:HIS:O	2:c:243:ILE:N	2.33	0.52
2:z:292:LYS:C	2:z:294:VAL:N	2.67	0.52
2:Z:292:LYS:C	2:Z:294:VAL:N	2.67	0.52
2:w:292:LYS:C	2:w:294:VAL:N	2.67	0.52
2:I:227:SER:HA	2:I:259:VAL:N	2.25	0.52
2:J:237:ALA:O	2:J:238:ASN:C	2.51	0.52
2:T:292:LYS:C	2:T:294:VAL:N	2.67	0.52
2:i:239:HIS:O	2:i:243:ILE:N	2.33	0.52
2:n:227:SER:HA	2:n:259:VAL:N	2.25	0.52
1:D:14:LEU:CB	1:D:47:MET:HA	2.40	0.52
2:H:227:SER:HA	2:H:259:VAL:N	2.25	0.52
2:K:227:SER:HA	2:K:259:VAL:N	2.25	0.52
2:W:227:SER:HA	2:W:259:VAL:N	2.25	0.52
2:m:227:SER:HA	2:m:259:VAL:N	2.25	0.52
2:m:292:LYS:C	2:m:294:VAL:N	2.67	0.52
2:p:227:SER:HA	2:p:259:VAL:N	2.25	0.52
1:A:105:ALA:CB	1:A:110:GLY:HA3	2.35	0.51
1:t:14:LEU:CB	1:t:47:MET:HA	2.40	0.51
2:F:227:SER:HA	2:F:259:VAL:N	2.25	0.51
2:o:237:ALA:O	2:o:238:ASN:C	2.51	0.51
2:s:227:SER:HA	2:s:259:VAL:N	2.25	0.51
2:2:261:PRO:CB	2:6:211:LEU:CA	2.88	0.51
2:4:227:SER:HA	2:4:259:VAL:N	2.25	0.51
2:7:292:LYS:C	2:7:294:VAL:N	2.67	0.51
1:D:36:ASP:CB	2:R:261:PRO:CB	2.88	0.51
1:O:14:LEU:CB	1:O:47:MET:HA	2.40	0.51
2:c:227:SER:HA	2:c:259:VAL:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:k:227:SER:HA	2:k:259:VAL:N	2.25	0.51
2:r:196:GLY:N	2:r:230:ALA:H	2.06	0.51
2:2:227:SER:HA	2:2:259:VAL:N	2.25	0.51
2:6:237:ALA:O	2:6:238:ASN:C	2.51	0.51
2:G:227:SER:HA	2:G:259:VAL:N	2.25	0.51
2:N:227:SER:HA	2:N:259:VAL:N	2.25	0.51
2:h:211:LEU:CB	2:n:261:PRO:CB	2.88	0.51
2:8:227:SER:HA	2:8:259:VAL:N	2.25	0.51
2:8:239:HIS:O	2:8:243:ILE:N	2.33	0.51
1:b:14:LEU:CB	1:b:47:MET:HA	2.40	0.51
1:g:14:LEU:CB	1:g:47:MET:HA	2.40	0.51
1:u:14:LEU:CB	1:u:47:MET:HA	2.40	0.51
2:S:227:SER:HA	2:S:259:VAL:N	2.25	0.51
2:U:237:ALA:O	2:U:238:ASN:C	2.51	0.51
2:V:227:SER:HA	2:V:259:VAL:N	2.25	0.51
2:V:239:HIS:O	2:V:243:ILE:N	2.33	0.51
2:Y:227:SER:HA	2:Y:259:VAL:N	2.25	0.51
2:Y:237:ALA:O	2:Y:238:ASN:C	2.51	0.51
2:Y:292:LYS:C	2:Y:294:VAL:N	2.67	0.51
2:h:239:HIS:O	2:h:243:ILE:N	2.33	0.51
2:l:239:HIS:O	2:l:243:ILE:N	2.33	0.51
2:y:227:SER:HA	2:y:259:VAL:N	2.25	0.51
2:6:227:SER:HA	2:6:259:VAL:N	2.25	0.51
2:6:292:LYS:C	2:6:294:VAL:N	2.67	0.51
2:9:227:SER:HA	2:9:259:VAL:N	2.25	0.51
1:P:14:LEU:CB	1:P:47:MET:HA	2.40	0.51
1:f:14:LEU:CB	1:f:47:MET:HA	2.40	0.51
2:X:215:SER:O	2:X:216:GLU:C	2.54	0.51
2:Z:227:SER:HA	2:Z:259:VAL:N	2.25	0.51
2:d:227:SER:HA	2:d:259:VAL:N	2.25	0.51
2:h:227:SER:HA	2:h:259:VAL:N	2.25	0.51
2:m:215:SER:O	2:m:216:GLU:C	2.54	0.51
2:r:227:SER:HA	2:r:259:VAL:N	2.25	0.51
2:7:227:SER:HA	2:7:259:VAL:N	2.25	0.51
2:B:227:SER:HA	2:B:259:VAL:N	2.25	0.51
1:t:105:ALA:CB	1:t:110:GLY:HA3	2.35	0.51
1:v:14:LEU:CB	1:v:47:MET:HA	2.40	0.51
2:G:239:HIS:O	2:G:243:ILE:N	2.33	0.51
2:H:215:SER:O	2:H:216:GLU:C	2.54	0.51
2:M:196:GLY:N	2:M:230:ALA:H	2.06	0.51
2:M:227:SER:HA	2:M:259:VAL:N	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:292:LYS:C	2:N:294:VAL:N	2.67	0.51
2:V:215:SER:O	2:V:216:GLU:C	2.54	0.51
2:x:227:SER:HA	2:x:259:VAL:N	2.25	0.51
2:2:215:SER:O	2:2:216:GLU:C	2.54	0.51
2:5:196:GLY:N	2:5:230:ALA:H	2.06	0.51
2:5:215:SER:O	2:5:216:GLU:C	2.54	0.51
1:a:14:LEU:CB	1:a:47:MET:HA	2.40	0.51
1:e:14:LEU:CB	1:e:47:MET:HA	2.40	0.51
2:R:227:SER:HA	2:R:259:VAL:N	2.25	0.51
2:j:227:SER:HA	2:j:259:VAL:N	2.25	0.51
2:l:227:SER:HA	2:l:259:VAL:N	2.25	0.51
2:q:227:SER:HA	2:q:259:VAL:N	2.25	0.51
2:s:292:LYS:C	2:s:294:VAL:N	2.67	0.51
2:4:239:HIS:O	2:4:243:ILE:N	2.33	0.51
2:B:284:ARG:HA	2:C:186:TRP:CB	2.41	0.51
1:A:79:LEU:O	1:A:104:VAL:N	2.43	0.51
1:u:79:LEU:O	1:u:103:CYS:HA	2.11	0.51
2:E:292:LYS:C	2:E:294:VAL:N	2.67	0.51
2:J:215:SER:O	2:J:216:GLU:C	2.54	0.51
2:K:239:HIS:O	2:K:243:ILE:N	2.33	0.51
2:L:227:SER:HA	2:L:259:VAL:N	2.25	0.51
2:N:196:GLY:N	2:N:230:ALA:H	2.06	0.51
2:T:227:SER:HA	2:T:259:VAL:N	2.25	0.51
2:i:215:SER:O	2:i:216:GLU:C	2.54	0.51
2:o:215:SER:O	2:o:216:GLU:C	2.54	0.51
2:z:227:SER:HA	2:z:259:VAL:N	2.25	0.51
2:1:292:LYS:C	2:1:294:VAL:N	2.67	0.51
2:2:196:GLY:N	2:2:230:ALA:H	2.06	0.51
1:A:14:LEU:CB	1:A:47:MET:HA	2.40	0.51
2:E:227:SER:HA	2:E:259:VAL:N	2.25	0.51
2:K:292:LYS:C	2:K:294:VAL:N	2.67	0.51
2:U:215:SER:O	2:U:216:GLU:C	2.54	0.51
2:j:196:GLY:N	2:j:230:ALA:H	2.06	0.51
2:s:239:HIS:O	2:s:243:ILE:N	2.33	0.51
2:8:215:SER:O	2:8:216:GLU:C	2.54	0.51
1:D:105:ALA:CB	1:D:110:GLY:HA3	2.35	0.51
1:g:105:ALA:CB	1:g:110:GLY:HA3	2.35	0.51
2:H:239:HIS:O	2:H:243:ILE:N	2.33	0.51
2:W:239:HIS:O	2:W:243:ILE:N	2.33	0.51
2:c:215:SER:O	2:c:216:GLU:C	2.54	0.51
2:m:239:HIS:O	2:m:243:ILE:N	2.33	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:w:227:SER:HA	2:w:259:VAL:N	2.25	0.51
2:x:196:GLY:N	2:x:230:ALA:H	2.06	0.51
2:1:227:SER:HA	2:1:259:VAL:N	2.25	0.51
2:1:237:ALA:O	2:1:238:ASN:C	2.51	0.51
2:4:196:GLY:N	2:4:230:ALA:H	2.06	0.51
1:g:79:LEU:O	1:g:104:VAL:N	2.43	0.50
2:C:215:SER:O	2:C:216:GLU:C	2.54	0.50
2:E:196:GLY:N	2:E:230:ALA:H	2.06	0.50
2:F:196:GLY:N	2:F:230:ALA:H	2.06	0.50
2:G:196:GLY:N	2:G:230:ALA:H	2.06	0.50
2:L:215:SER:O	2:L:216:GLU:C	2.54	0.50
2:X:239:HIS:O	2:X:243:ILE:N	2.33	0.50
2:j:292:LYS:C	2:j:294:VAL:N	2.67	0.50
2:k:215:SER:O	2:k:216:GLU:C	2.54	0.50
2:p:196:GLY:N	2:p:230:ALA:H	2.06	0.50
2:p:292:LYS:C	2:p:294:VAL:N	2.67	0.50
2:1:215:SER:O	2:1:216:GLU:C	2.54	0.50
2:B:215:SER:O	2:B:216:GLU:C	2.54	0.50
2:C:227:SER:HA	2:C:259:VAL:N	2.25	0.50
2:G:215:SER:O	2:G:216:GLU:C	2.54	0.50
2:Q:215:SER:O	2:Q:216:GLU:C	2.54	0.50
2:Q:227:SER:HA	2:Q:259:VAL:N	2.25	0.50
2:R:196:GLY:N	2:R:230:ALA:H	2.06	0.50
2:o:227:SER:HA	2:o:259:VAL:N	2.25	0.50
2:s:196:GLY:N	2:s:230:ALA:H	2.06	0.50
2:2:239:HIS:O	2:2:243:ILE:N	2.33	0.50
2:B:239:HIS:O	2:B:243:ILE:N	2.33	0.50
2:J:227:SER:HA	2:J:259:VAL:N	2.25	0.50
2:U:292:LYS:C	2:U:294:VAL:N	2.67	0.50
2:V:196:GLY:N	2:V:230:ALA:H	2.07	0.50
2:W:196:GLY:N	2:W:230:ALA:H	2.06	0.50
2:X:196:GLY:N	2:X:230:ALA:H	2.06	0.50
2:k:196:GLY:N	2:k:230:ALA:H	2.06	0.50
2:l:215:SER:O	2:l:216:GLU:C	2.54	0.50
2:s:215:SER:O	2:s:216:GLU:C	2.54	0.50
2:w:215:SER:O	2:w:216:GLU:C	2.54	0.50
2:x:292:LYS:C	2:x:294:VAL:N	2.67	0.50
2:F:215:SER:O	2:F:216:GLU:C	2.54	0.50
2:H:196:GLY:N	2:H:230:ALA:H	2.06	0.50
2:M:292:LYS:C	2:M:294:VAL:N	2.67	0.50
2:N:215:SER:O	2:N:216:GLU:C	2.54	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:215:SER:O	2:S:216:GLU:C	2.54	0.50
2:U:227:SER:HA	2:U:259:VAL:N	2.25	0.50
2:h:215:SER:O	2:h:216:GLU:C	2.54	0.50
2:i:227:SER:HA	2:i:259:VAL:N	2.25	0.50
2:m:196:GLY:N	2:m:230:ALA:H	2.06	0.50
2:y:215:SER:O	2:y:216:GLU:C	2.54	0.50
2:K:196:GLY:N	2:K:230:ALA:H	2.06	0.50
2:R:215:SER:O	2:R:216:GLU:C	2.54	0.50
2:k:292:LYS:C	2:k:294:VAL:N	2.67	0.50
2:p:239:HIS:O	2:p:243:ILE:N	2.33	0.50
2:4:186:TRP:CB	2:5:284:ARG:HA	2.41	0.50
2:F:292:LYS:C	2:F:294:VAL:N	2.67	0.50
2:X:227:SER:HA	2:X:259:VAL:N	2.25	0.50
2:l:196:GLY:N	2:l:230:ALA:H	2.06	0.50
2:x:215:SER:O	2:x:216:GLU:C	2.54	0.50
2:E:215:SER:O	2:E:216:GLU:C	2.54	0.50
2:M:215:SER:O	2:M:216:GLU:C	2.54	0.50
2:R:292:LYS:C	2:R:294:VAL:N	2.67	0.50
2:j:215:SER:O	2:j:216:GLU:C	2.54	0.50
2:q:215:SER:O	2:q:216:GLU:C	2.54	0.50
2:r:215:SER:O	2:r:216:GLU:C	2.54	0.50
2:r:292:LYS:C	2:r:294:VAL:N	2.67	0.50
2:5:227:SER:HA	2:5:259:VAL:N	2.25	0.50
1:f:79:LEU:O	1:f:103:CYS:HA	2.12	0.50
2:F:211:LEU:CB	2:K:261:PRO:CB	2.90	0.50
2:p:215:SER:O	2:p:216:GLU:C	2.54	0.50
2:z:215:SER:O	2:z:216:GLU:C	2.54	0.50
2:4:215:SER:O	2:4:216:GLU:C	2.54	0.50
2:7:215:SER:O	2:7:216:GLU:C	2.54	0.50
2:K:215:SER:O	2:K:216:GLU:C	2.54	0.50
2:T:215:SER:O	2:T:216:GLU:C	2.54	0.50
2:9:215:SER:O	2:9:216:GLU:C	2.54	0.50
2:W:215:SER:O	2:W:216:GLU:C	2.54	0.49
2:Z:215:SER:O	2:Z:216:GLU:C	2.54	0.49
2:d:215:SER:O	2:d:216:GLU:C	2.54	0.49
2:8:186:TRP:CB	2:9:284:ARG:HA	2.42	0.49
1:O:79:LEU:O	1:O:103:CYS:HA	2.11	0.49
1:t:79:LEU:O	1:t:104:VAL:N	2.42	0.49
2:Q:239:HIS:O	2:Q:243:ILE:N	2.33	0.49
2:n:215:SER:O	2:n:216:GLU:C	2.54	0.49
1:f:105:ALA:HB3	1:f:110:GLY:CA	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:292:LYS:C	2:C:294:VAL:N	2.67	0.49
2:L:239:HIS:O	2:L:243:ILE:N	2.33	0.49
1:b:105:ALA:HB3	1:b:110:GLY:CA	2.38	0.49
1:g:105:ALA:HB3	1:g:110:GLY:CA	2.38	0.49
2:Y:215:SER:O	2:Y:216:GLU:C	2.54	0.49
2:5:239:HIS:O	2:5:243:ILE:N	2.33	0.49
1:b:79:LEU:O	1:b:103:CYS:HA	2.13	0.49
2:I:215:SER:O	2:I:216:GLU:C	2.54	0.49
2:6:215:SER:O	2:6:216:GLU:C	2.54	0.49
1:A:105:ALA:HB3	1:A:110:GLY:CA	2.38	0.49
2:i:292:LYS:C	2:i:294:VAL:N	2.67	0.49
2:w:239:HIS:O	2:w:243:ILE:N	2.33	0.49
2:Y:292:LYS:C	2:Y:294:VAL:H	2.21	0.49
1:e:79:LEU:O	1:e:104:VAL:N	2.42	0.49
2:H:292:LYS:C	2:H:294:VAL:H	2.21	0.49
2:S:292:LYS:C	2:S:294:VAL:H	2.21	0.49
2:o:196:GLY:N	2:o:230:ALA:H	2.06	0.49
2:6:292:LYS:C	2:6:294:VAL:H	2.21	0.49
2:B:292:LYS:C	2:B:294:VAL:H	2.21	0.49
1:f:104:VAL:CB	1:f:107:LEU:HA	2.43	0.49
2:L:292:LYS:C	2:L:294:VAL:H	2.21	0.49
2:m:292:LYS:C	2:m:294:VAL:H	2.21	0.49
1:e:105:ALA:HB3	1:e:110:GLY:CA	2.38	0.49
2:L:292:LYS:C	2:L:294:VAL:N	2.67	0.49
2:V:292:LYS:C	2:V:294:VAL:H	2.21	0.49
2:c:292:LYS:C	2:c:294:VAL:H	2.21	0.49
2:l:292:LYS:C	2:l:294:VAL:H	2.21	0.49
2:n:196:GLY:N	2:n:230:ALA:H	2.06	0.49
2:y:292:LYS:C	2:y:294:VAL:H	2.21	0.49
2:G:292:LYS:C	2:G:294:VAL:H	2.21	0.48
2:h:292:LYS:C	2:h:294:VAL:H	2.21	0.48
2:q:239:HIS:O	2:q:243:ILE:N	2.33	0.48
2:2:292:LYS:C	2:2:294:VAL:H	2.21	0.48
1:a:105:ALA:HB3	1:a:110:GLY:CA	2.38	0.48
2:B:290:ALA:C	2:B:292:LYS:N	2.69	0.48
2:B:290:ALA:C	2:B:292:LYS:H	2.20	0.48
1:b:104:VAL:CB	1:b:107:LEU:HA	2.43	0.48
2:J:196:GLY:N	2:J:230:ALA:H	2.06	0.48
2:J:292:LYS:C	2:J:294:VAL:H	2.21	0.48
2:i:196:GLY:N	2:i:230:ALA:H	2.06	0.48
2:o:292:LYS:C	2:o:294:VAL:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:r:292:LYS:C	2:r:294:VAL:H	2.21	0.48
2:B:196:GLY:N	2:B:230:ALA:H	2.06	0.48
2:I:292:LYS:C	2:I:294:VAL:H	2.21	0.48
2:J:239:HIS:O	2:J:243:ILE:N	2.33	0.48
2:n:292:LYS:C	2:n:294:VAL:H	2.21	0.48
2:q:292:LYS:C	2:q:294:VAL:H	2.21	0.48
2:8:292:LYS:C	2:8:294:VAL:H	2.21	0.48
1:a:103:CYS:H	2:V:251:GLY:HA3	1.77	0.48
2:S:292:LYS:C	2:S:294:VAL:N	2.67	0.48
2:d:292:LYS:C	2:d:294:VAL:N	2.67	0.48
1:O:104:VAL:CB	1:O:107:LEU:HA	2.43	0.48
2:I:196:GLY:N	2:I:230:ALA:H	2.06	0.48
2:d:292:LYS:C	2:d:294:VAL:H	2.21	0.48
2:z:292:LYS:C	2:z:294:VAL:H	2.21	0.48
2:7:292:LYS:C	2:7:294:VAL:H	2.21	0.48
2:T:292:LYS:C	2:T:294:VAL:H	2.21	0.48
2:h:196:GLY:N	2:h:230:ALA:H	2.06	0.48
1:a:79:LEU:O	1:a:104:VAL:N	2.43	0.48
1:u:104:VAL:CB	1:u:107:LEU:HA	2.43	0.48
2:M:292:LYS:C	2:M:294:VAL:H	2.21	0.48
2:W:292:LYS:C	2:W:294:VAL:H	2.21	0.48
2:j:292:LYS:C	2:j:294:VAL:H	2.21	0.48
2:9:292:LYS:C	2:9:294:VAL:H	2.21	0.48
2:o:239:HIS:O	2:o:243:ILE:N	2.33	0.48
2:p:292:LYS:C	2:p:294:VAL:H	2.21	0.48
2:I:239:HIS:O	2:I:243:ILE:N	2.33	0.48
2:K:292:LYS:C	2:K:294:VAL:H	2.21	0.48
2:U:196:GLY:N	2:U:230:ALA:H	2.06	0.48
2:w:292:LYS:C	2:w:294:VAL:H	2.21	0.48
2:E:292:LYS:C	2:E:294:VAL:H	2.21	0.47
2:Q:292:LYS:C	2:Q:294:VAL:H	2.21	0.47
2:V:292:LYS:C	2:V:294:VAL:N	2.67	0.47
2:W:292:LYS:C	2:W:294:VAL:N	2.67	0.47
2:6:196:GLY:N	2:6:230:ALA:H	2.06	0.47
2:H:292:LYS:C	2:H:294:VAL:N	2.67	0.47
2:Y:196:GLY:N	2:Y:230:ALA:H	2.06	0.47
2:c:292:LYS:C	2:c:294:VAL:N	2.67	0.47
2:n:239:HIS:O	2:n:243:ILE:N	2.33	0.47
2:y:292:LYS:C	2:y:294:VAL:N	2.67	0.47
2:4:292:LYS:C	2:4:294:VAL:H	2.21	0.47
2:4:292:LYS:C	2:4:294:VAL:N	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:292:LYS:C	2:B:294:VAL:N	2.67	0.47
2:M:186:TRP:CB	2:N:284:ARG:HA	2.44	0.47
1:u:105:ALA:HB3	1:u:110:GLY:CA	2.38	0.47
2:F:239:HIS:O	2:F:243:ILE:N	2.33	0.47
2:q:292:LYS:C	2:q:294:VAL:N	2.67	0.47
2:x:292:LYS:C	2:x:294:VAL:H	2.21	0.47
2:1:196:GLY:N	2:1:230:ALA:H	2.06	0.47
2:7:239:HIS:O	2:7:243:ILE:N	2.33	0.47
2:9:292:LYS:C	2:9:294:VAL:N	2.67	0.47
2:C:191:MET:HA	2:C:223:ILE:N	2.30	0.47
2:Z:239:HIS:O	2:Z:243:ILE:N	2.33	0.47
2:s:292:LYS:C	2:s:294:VAL:H	2.21	0.47
2:R:292:LYS:C	2:R:294:VAL:H	2.21	0.47
2:z:239:HIS:O	2:z:243:ILE:N	2.33	0.47
1:O:105:ALA:HB3	1:O:110:GLY:CA	2.38	0.46
1:t:105:ALA:HB3	1:t:110:GLY:CA	2.38	0.46
2:N:292:LYS:C	2:N:294:VAL:H	2.21	0.46
2:T:239:HIS:O	2:T:243:ILE:N	2.33	0.46
2:1:292:LYS:C	2:1:294:VAL:H	2.21	0.46
2:2:292:LYS:C	2:2:294:VAL:N	2.67	0.46
2:k:239:HIS:O	2:k:243:ILE:N	2.33	0.46
1:D:105:ALA:HB3	1:D:110:GLY:CA	2.38	0.46
2:i:292:LYS:C	2:i:294:VAL:H	2.21	0.46
2:X:191:MET:HA	2:X:223:ILE:N	2.30	0.46
2:X:292:LYS:C	2:X:294:VAL:H	2.21	0.46
2:5:191:MET:HA	2:5:223:ILE:N	2.30	0.46
2:T:191:MET:HA	2:T:223:ILE:N	2.30	0.46
2:U:292:LYS:C	2:U:294:VAL:H	2.21	0.46
2:j:191:MET:HA	2:j:223:ILE:N	2.30	0.46
2:5:292:LYS:C	2:5:294:VAL:H	2.21	0.46
2:H:191:MET:HA	2:H:223:ILE:N	2.30	0.46
2:J:226:ILE:O	2:J:227:SER:C	2.59	0.46
2:s:226:ILE:O	2:s:227:SER:C	2.59	0.46
2:z:191:MET:HA	2:z:223:ILE:N	2.30	0.46
2:9:191:MET:HA	2:9:223:ILE:N	2.30	0.46
2:G:226:ILE:O	2:G:227:SER:C	2.59	0.46
2:N:226:ILE:O	2:N:227:SER:C	2.59	0.46
2:Q:224:MET:N	2:Q:255:LEU:O	2.49	0.46
2:T:226:ILE:O	2:T:227:SER:C	2.59	0.46
2:k:292:LYS:C	2:k:294:VAL:H	2.21	0.46
2:8:191:MET:HA	2:8:223:ILE:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:292:LYS:C	2:C:294:VAL:H	2.21	0.46
2:E:191:MET:HA	2:E:223:ILE:N	2.30	0.46
2:L:226:ILE:O	2:L:227:SER:C	2.59	0.46
2:M:290:ALA:O	2:M:294:VAL:N	2.49	0.46
2:S:290:ALA:O	2:S:294:VAL:N	2.49	0.46
2:Y:290:ALA:O	2:Y:294:VAL:N	2.49	0.46
2:d:191:MET:HA	2:d:223:ILE:N	2.30	0.46
2:l:226:ILE:O	2:l:227:SER:C	2.59	0.46
2:m:191:MET:HA	2:m:223:ILE:N	2.30	0.46
2:o:226:ILE:O	2:o:227:SER:C	2.59	0.46
2:r:290:ALA:O	2:r:294:VAL:N	2.49	0.46
2:s:290:ALA:O	2:s:294:VAL:N	2.49	0.46
2:w:224:MET:N	2:w:255:LEU:O	2.49	0.46
2:z:226:ILE:O	2:z:227:SER:C	2.59	0.46
2:4:290:ALA:O	2:4:294:VAL:N	2.49	0.46
2:5:290:ALA:O	2:5:294:VAL:N	2.49	0.46
2:Q:290:ALA:O	2:Q:294:VAL:N	2.49	0.45
2:W:290:ALA:O	2:W:294:VAL:N	2.49	0.45
2:X:290:ALA:O	2:X:294:VAL:N	2.50	0.45
2:Z:292:LYS:C	2:Z:294:VAL:H	2.21	0.45
2:k:290:ALA:O	2:k:294:VAL:N	2.49	0.45
2:n:191:MET:HA	2:n:223:ILE:N	2.30	0.45
2:w:290:ALA:O	2:w:294:VAL:N	2.49	0.45
2:y:290:ALA:O	2:y:294:VAL:N	2.49	0.45
2:2:290:ALA:O	2:2:294:VAL:N	2.49	0.45
2:6:290:ALA:O	2:6:294:VAL:N	2.49	0.45
2:E:224:MET:N	2:E:255:LEU:O	2.49	0.45
2:F:290:ALA:O	2:F:294:VAL:N	2.49	0.45
2:H:290:ALA:O	2:H:294:VAL:N	2.49	0.45
2:I:191:MET:HA	2:I:223:ILE:N	2.30	0.45
2:N:290:ALA:O	2:N:294:VAL:N	2.49	0.45
2:T:290:ALA:O	2:T:294:VAL:N	2.49	0.45
2:c:191:MET:HA	2:c:223:ILE:N	2.30	0.45
2:c:282:THR:C	2:c:284:ARG:H	2.25	0.45
2:d:226:ILE:O	2:d:227:SER:C	2.59	0.45
2:k:226:ILE:O	2:k:227:SER:C	2.59	0.45
2:q:226:ILE:O	2:q:227:SER:C	2.59	0.45
2:z:290:ALA:O	2:z:294:VAL:N	2.49	0.45
2:7:290:ALA:O	2:7:294:VAL:N	2.49	0.45
2:8:282:THR:C	2:8:284:ARG:H	2.25	0.45
2:F:226:ILE:O	2:F:227:SER:C	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:224:MET:N	2:T:255:LEU:O	2.49	0.45
2:U:268:VAL:CB	2:j:246:ALA:HB2	2.46	0.45
2:V:226:ILE:O	2:V:227:SER:C	2.59	0.45
2:V:290:ALA:O	2:V:294:VAL:N	2.49	0.45
2:W:282:THR:C	2:W:284:ARG:H	2.25	0.45
2:Z:290:ALA:O	2:Z:294:VAL:N	2.49	0.45
2:m:290:ALA:O	2:m:294:VAL:N	2.49	0.45
2:9:226:ILE:O	2:9:227:SER:C	2.59	0.45
2:9:290:ALA:O	2:9:294:VAL:N	2.49	0.45
1:O:79:LEU:O	1:O:104:VAL:N	2.47	0.45
2:C:226:ILE:O	2:C:227:SER:C	2.59	0.45
2:F:292:LYS:C	2:F:294:VAL:H	2.21	0.45
2:L:191:MET:HA	2:L:223:ILE:N	2.30	0.45
2:S:282:THR:C	2:S:284:ARG:H	2.25	0.45
2:U:290:ALA:O	2:U:294:VAL:N	2.49	0.45
2:W:226:ILE:O	2:W:227:SER:C	2.59	0.45
2:d:290:ALA:O	2:d:294:VAL:N	2.49	0.45
2:i:282:THR:C	2:i:284:ARG:H	2.25	0.45
2:j:290:ALA:O	2:j:294:VAL:N	2.49	0.45
2:l:290:ALA:O	2:l:294:VAL:N	2.49	0.45
2:q:191:MET:HA	2:q:223:ILE:N	2.30	0.45
2:z:224:MET:N	2:z:255:LEU:O	2.49	0.45
2:2:226:ILE:O	2:2:227:SER:C	2.59	0.45
2:4:282:THR:C	2:4:284:ARG:H	2.25	0.45
2:5:282:THR:C	2:5:284:ARG:H	2.25	0.45
2:6:224:MET:N	2:6:255:LEU:O	2.49	0.45
1:v:105:ALA:HB3	1:v:110:GLY:CA	2.38	0.45
2:E:290:ALA:O	2:E:294:VAL:N	2.49	0.45
2:G:282:THR:C	2:G:284:ARG:H	2.25	0.45
2:G:290:ALA:O	2:G:294:VAL:N	2.49	0.45
2:H:282:THR:C	2:H:284:ARG:H	2.25	0.45
2:R:226:ILE:O	2:R:227:SER:C	2.59	0.45
2:Y:224:MET:N	2:Y:255:LEU:O	2.49	0.45
2:h:226:ILE:O	2:h:227:SER:C	2.59	0.45
2:i:226:ILE:O	2:i:227:SER:C	2.59	0.45
2:j:224:MET:N	2:j:255:LEU:O	2.49	0.45
2:l:282:THR:C	2:l:284:ARG:H	2.25	0.45
2:o:290:ALA:O	2:o:294:VAL:N	2.49	0.45
2:s:282:THR:C	2:s:284:ARG:H	2.25	0.45
2:x:226:ILE:O	2:x:227:SER:C	2.59	0.45
2:y:282:THR:C	2:y:284:ARG:H	2.25	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:226:ILE:O	2:B:227:SER:C	2.59	0.45
2:C:282:THR:C	2:C:284:ARG:H	2.25	0.45
2:F:282:THR:C	2:F:284:ARG:H	2.25	0.45
2:N:282:THR:C	2:N:284:ARG:H	2.25	0.45
2:Z:191:MET:HA	2:Z:223:ILE:N	2.30	0.45
2:h:282:THR:C	2:h:284:ARG:H	2.25	0.45
2:n:226:ILE:O	2:n:227:SER:C	2.59	0.45
2:n:290:ALA:O	2:n:294:VAL:N	2.49	0.45
2:5:244:THR:O	2:5:245:LYS:C	2.59	0.45
2:7:191:MET:HA	2:7:223:ILE:N	2.30	0.45
2:I:290:ALA:O	2:I:294:VAL:N	2.49	0.45
2:J:290:ALA:O	2:J:294:VAL:N	2.49	0.45
2:L:290:ALA:O	2:L:294:VAL:N	2.49	0.45
2:X:282:THR:C	2:X:284:ARG:H	2.25	0.45
2:m:282:THR:C	2:m:284:ARG:H	2.25	0.45
2:x:290:ALA:O	2:x:294:VAL:N	2.49	0.45
2:1:290:ALA:O	2:1:294:VAL:N	2.49	0.45
1:P:105:ALA:HB3	1:P:110:GLY:CA	2.38	0.45
2:E:246:ALA:HB2	2:1:268:VAL:CB	2.47	0.45
2:X:244:THR:O	2:X:245:LYS:C	2.58	0.45
2:c:226:ILE:O	2:c:227:SER:C	2.59	0.45
2:k:191:MET:HA	2:k:223:ILE:N	2.30	0.45
2:k:282:THR:C	2:k:284:ARG:H	2.25	0.45
2:q:290:ALA:O	2:q:294:VAL:N	2.49	0.45
2:7:282:THR:C	2:7:284:ARG:H	2.25	0.45
2:8:290:ALA:O	2:8:294:VAL:N	2.49	0.45
2:F:191:MET:HA	2:F:223:ILE:N	2.30	0.45
2:G:191:MET:HA	2:G:223:ILE:N	2.30	0.45
2:I:226:ILE:O	2:I:227:SER:C	2.59	0.45
2:R:290:ALA:O	2:R:294:VAL:N	2.49	0.45
2:Z:282:THR:C	2:Z:284:ARG:H	2.25	0.45
2:K:226:ILE:O	2:K:227:SER:C	2.59	0.45
2:Y:191:MET:HA	2:Y:223:ILE:N	2.30	0.45
2:h:290:ALA:O	2:h:294:VAL:N	2.49	0.45
2:n:224:MET:N	2:n:255:LEU:O	2.49	0.45
2:4:224:MET:N	2:4:255:LEU:O	2.49	0.45
2:6:191:MET:HA	2:6:223:ILE:N	2.30	0.45
1:a:79:LEU:O	1:a:103:CYS:HA	2.18	0.44
1:b:79:LEU:O	1:b:104:VAL:N	2.48	0.44
2:Y:282:THR:C	2:Y:284:ARG:H	2.25	0.44
2:c:290:ALA:O	2:c:294:VAL:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:o:191:MET:HA	2:o:223:ILE:N	2.30	0.44
2:p:191:MET:HA	2:p:223:ILE:N	2.30	0.44
2:r:226:ILE:O	2:r:227:SER:C	2.59	0.44
2:2:282:THR:C	2:2:284:ARG:H	2.25	0.44
1:u:79:LEU:O	1:u:104:VAL:N	2.48	0.44
2:J:191:MET:HA	2:J:223:ILE:N	2.30	0.44
2:L:224:MET:N	2:L:255:LEU:O	2.49	0.44
2:W:224:MET:N	2:W:255:LEU:O	2.49	0.44
2:p:226:ILE:O	2:p:227:SER:C	2.59	0.44
2:p:290:ALA:O	2:p:294:VAL:N	2.49	0.44
2:6:282:THR:C	2:6:284:ARG:H	2.25	0.44
2:B:191:MET:HA	2:B:223:ILE:N	2.30	0.44
1:f:79:LEU:O	1:f:104:VAL:N	2.49	0.44
2:I:282:THR:C	2:I:284:ARG:H	2.25	0.44
2:K:290:ALA:O	2:K:294:VAL:N	2.49	0.44
2:R:224:MET:N	2:R:255:LEU:O	2.49	0.44
2:i:290:ALA:O	2:i:294:VAL:N	2.49	0.44
2:l:191:MET:HA	2:l:223:ILE:N	2.30	0.44
2:j:282:THR:C	2:j:284:ARG:H	2.25	0.44
2:p:282:THR:C	2:p:284:ARG:H	2.25	0.44
2:x:224:MET:N	2:x:255:LEU:O	2.49	0.44
2:1:282:THR:C	2:1:284:ARG:H	2.25	0.44
2:C:290:ALA:O	2:C:294:VAL:N	2.49	0.44
2:L:182:VAL:O	2:L:192:LEU:HA	2.18	0.44
2:Q:282:THR:C	2:Q:284:ARG:H	2.25	0.44
2:T:282:THR:C	2:T:284:ARG:H	2.25	0.44
2:q:182:VAL:O	2:q:192:LEU:HA	2.18	0.44
2:E:282:THR:C	2:E:284:ARG:H	2.25	0.44
2:K:282:THR:C	2:K:284:ARG:H	2.25	0.44
2:d:182:VAL:O	2:d:192:LEU:HA	2.18	0.44
2:q:282:THR:C	2:q:284:ARG:H	2.25	0.44
2:r:182:VAL:O	2:r:192:LEU:HA	2.18	0.44
2:w:226:ILE:O	2:w:227:SER:C	2.59	0.44
2:z:282:THR:C	2:z:284:ARG:H	2.25	0.44
2:1:226:ILE:O	2:1:227:SER:C	2.59	0.44
1:b:49:GLU:O	1:b:79:LEU:HA	2.18	0.44
2:E:182:VAL:O	2:E:192:LEU:HA	2.18	0.44
2:H:226:ILE:O	2:H:227:SER:C	2.59	0.44
2:K:191:MET:HA	2:K:223:ILE:N	2.30	0.44
2:Q:226:ILE:O	2:Q:227:SER:C	2.59	0.44
2:Z:226:ILE:O	2:Z:227:SER:C	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:h:191:MET:HA	2:h:223:ILE:N	2.30	0.44
2:w:282:THR:C	2:w:284:ARG:H	2.25	0.44
2:9:182:VAL:O	2:9:192:LEU:HA	2.18	0.44
1:a:49:GLU:O	1:a:79:LEU:HA	2.18	0.44
1:a:104:VAL:CB	1:a:107:LEU:HA	2.47	0.44
1:e:49:GLU:O	1:e:79:LEU:HA	2.18	0.44
2:H:224:MET:N	2:H:255:LEU:O	2.49	0.44
2:M:182:VAL:O	2:M:192:LEU:HA	2.18	0.44
2:S:182:VAL:O	2:S:192:LEU:HA	2.18	0.44
2:U:282:THR:C	2:U:284:ARG:H	2.25	0.44
2:V:282:THR:C	2:V:284:ARG:H	2.25	0.44
2:X:182:VAL:O	2:X:192:LEU:HA	2.18	0.44
2:m:226:ILE:O	2:m:227:SER:C	2.59	0.44
2:n:282:THR:C	2:n:284:ARG:H	2.25	0.44
2:7:226:ILE:O	2:7:227:SER:C	2.59	0.44
2:9:282:THR:C	2:9:284:ARG:H	2.25	0.44
2:B:182:VAL:O	2:B:192:LEU:HA	2.18	0.44
1:O:49:GLU:O	1:O:79:LEU:HA	2.18	0.44
1:f:49:GLU:O	1:f:79:LEU:HA	2.18	0.44
1:g:104:VAL:CB	1:g:107:LEU:HA	2.47	0.44
1:u:49:GLU:O	1:u:79:LEU:HA	2.18	0.44
2:M:282:THR:C	2:M:284:ARG:H	2.25	0.44
2:U:182:VAL:O	2:U:192:LEU:HA	2.18	0.44
2:W:191:MET:HA	2:W:223:ILE:N	2.30	0.44
2:j:182:VAL:O	2:j:192:LEU:HA	2.18	0.44
2:m:224:MET:N	2:m:255:LEU:O	2.49	0.44
2:s:182:VAL:O	2:s:192:LEU:HA	2.18	0.44
2:1:182:VAL:O	2:1:192:LEU:HA	2.18	0.44
2:N:182:VAL:O	2:N:192:LEU:HA	2.18	0.43
2:R:282:THR:C	2:R:284:ARG:H	2.25	0.43
2:S:226:ILE:O	2:S:227:SER:C	2.59	0.43
2:h:182:VAL:O	2:h:192:LEU:HA	2.18	0.43
2:x:191:MET:HA	2:x:223:ILE:N	2.30	0.43
2:y:182:VAL:O	2:y:192:LEU:HA	2.18	0.43
2:2:191:MET:HA	2:2:223:ILE:N	2.30	0.43
2:4:191:MET:HA	2:4:223:ILE:N	2.30	0.43
2:5:182:VAL:O	2:5:192:LEU:HA	2.18	0.43
1:P:54:LYS:O	1:P:55:THR:C	2.61	0.43
1:f:54:LYS:O	1:f:55:THR:C	2.61	0.43
1:v:54:LYS:O	1:v:55:THR:C	2.61	0.43
2:J:282:THR:C	2:J:284:ARG:H	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:182:VAL:O	2:K:192:LEU:HA	2.18	0.43
2:d:282:THR:C	2:d:284:ARG:H	2.25	0.43
2:m:182:VAL:O	2:m:192:LEU:HA	2.18	0.43
2:q:224:MET:N	2:q:255:LEU:O	2.49	0.43
2:r:224:MET:N	2:r:255:LEU:O	2.49	0.43
2:y:226:ILE:O	2:y:227:SER:C	2.59	0.43
1:b:54:LYS:O	1:b:55:THR:C	2.61	0.43
1:A:111:PHE:HA	1:A:114:LEU:CB	2.49	0.43
2:H:182:VAL:O	2:H:192:LEU:HA	2.18	0.43
2:M:224:MET:N	2:M:255:LEU:O	2.49	0.43
2:M:284:ARG:HA	2:N:186:TRP:CB	2.48	0.43
2:V:191:MET:HA	2:V:223:ILE:N	2.30	0.43
2:o:282:THR:C	2:o:284:ARG:H	2.25	0.43
2:r:282:THR:C	2:r:284:ARG:H	2.25	0.43
2:x:282:THR:C	2:x:284:ARG:H	2.25	0.43
2:5:226:ILE:O	2:5:227:SER:C	2.59	0.43
1:D:54:LYS:O	1:D:55:THR:C	2.61	0.43
1:g:111:PHE:HA	1:g:114:LEU:CB	2.49	0.43
2:L:282:THR:C	2:L:284:ARG:H	2.25	0.43
2:M:227:SER:HA	2:M:258:GLY:C	2.44	0.43
2:R:191:MET:HA	2:R:223:ILE:N	2.30	0.43
2:c:182:VAL:O	2:c:192:LEU:HA	2.18	0.43
2:q:227:SER:HA	2:q:258:GLY:C	2.44	0.43
2:6:226:ILE:O	2:6:227:SER:C	2.59	0.43
2:7:227:SER:HA	2:7:258:GLY:C	2.44	0.43
2:B:227:SER:HA	2:B:258:GLY:C	2.44	0.43
1:e:79:LEU:O	1:e:103:CYS:HA	2.19	0.43
1:g:49:GLU:O	1:g:79:LEU:HA	2.18	0.43
2:T:182:VAL:O	2:T:192:LEU:HA	2.18	0.43
2:Z:227:SER:HA	2:Z:258:GLY:C	2.44	0.43
2:d:227:SER:HA	2:d:258:GLY:C	2.44	0.43
2:h:227:SER:HA	2:h:258:GLY:C	2.44	0.43
2:j:226:ILE:O	2:j:227:SER:C	2.59	0.43
2:r:227:SER:HA	2:r:258:GLY:C	2.44	0.43
2:8:182:VAL:O	2:8:192:LEU:HA	2.18	0.43
2:9:227:SER:HA	2:9:258:GLY:C	2.44	0.43
1:P:49:GLU:O	1:P:79:LEU:HA	2.18	0.43
1:g:79:LEU:O	1:g:103:CYS:HA	2.18	0.43
2:C:227:SER:HA	2:C:258:GLY:C	2.44	0.43
2:L:227:SER:HA	2:L:258:GLY:C	2.44	0.43
2:Q:182:VAL:O	2:Q:192:LEU:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:226:ILE:O	2:U:227:SER:C	2.59	0.43
2:V:182:VAL:O	2:V:192:LEU:HA	2.18	0.43
2:X:226:ILE:O	2:X:227:SER:C	2.59	0.43
2:Y:226:ILE:O	2:Y:227:SER:C	2.59	0.43
2:i:182:VAL:O	2:i:192:LEU:HA	2.18	0.43
2:j:227:SER:HA	2:j:258:GLY:C	2.44	0.43
2:p:182:VAL:O	2:p:192:LEU:HA	2.18	0.43
2:w:182:VAL:O	2:w:192:LEU:HA	2.18	0.43
2:z:182:VAL:O	2:z:192:LEU:HA	2.18	0.43
1:b:111:PHE:HA	1:b:114:LEU:CB	2.49	0.43
1:O:111:PHE:HA	1:O:114:LEU:CB	2.49	0.43
1:u:111:PHE:HA	1:u:114:LEU:CB	2.49	0.43
1:v:49:GLU:O	1:v:79:LEU:HA	2.18	0.43
2:C:182:VAL:O	2:C:192:LEU:HA	2.18	0.43
2:Z:182:VAL:O	2:Z:192:LEU:HA	2.18	0.43
2:d:224:MET:N	2:d:255:LEU:O	2.49	0.43
2:h:224:MET:N	2:h:255:LEU:O	2.49	0.43
2:i:227:SER:HA	2:i:258:GLY:C	2.44	0.43
2:k:182:VAL:O	2:k:192:LEU:HA	2.18	0.43
2:m:247:THR:O	2:m:252:CYS:N	2.52	0.43
2:y:224:MET:N	2:y:255:LEU:O	2.49	0.43
2:6:227:SER:HA	2:6:258:GLY:C	2.44	0.43
1:A:49:GLU:O	1:A:79:LEU:HA	2.18	0.43
1:f:111:PHE:HA	1:f:114:LEU:CB	2.49	0.43
1:t:54:LYS:O	1:t:55:THR:C	2.62	0.43
1:v:111:PHE:HA	1:v:114:LEU:CB	2.49	0.43
2:E:227:SER:HA	2:E:258:GLY:C	2.44	0.43
2:F:182:VAL:O	2:F:192:LEU:HA	2.18	0.43
2:F:224:MET:N	2:F:255:LEU:O	2.49	0.43
2:F:227:SER:HA	2:F:258:GLY:C	2.44	0.43
2:J:227:SER:HA	2:J:258:GLY:C	2.44	0.43
2:Y:182:VAL:O	2:Y:192:LEU:HA	2.18	0.43
2:Y:227:SER:HA	2:Y:258:GLY:C	2.44	0.43
2:m:227:SER:HA	2:m:258:GLY:C	2.44	0.43
2:o:227:SER:HA	2:o:258:GLY:C	2.44	0.43
1:a:88:VAL:O	1:a:92:MET:N	2.41	0.43
1:P:111:PHE:HA	1:P:114:LEU:CB	2.49	0.43
1:v:104:VAL:CB	1:v:107:LEU:HA	2.49	0.43
2:E:226:ILE:O	2:E:227:SER:C	2.59	0.43
2:H:227:SER:HA	2:H:258:GLY:C	2.44	0.43
2:M:191:MET:HA	2:M:223:ILE:N	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:224:MET:N	2:S:255:LEU:O	2.49	0.43
2:S:227:SER:HA	2:S:258:GLY:C	2.44	0.43
2:U:227:SER:HA	2:U:258:GLY:C	2.44	0.43
2:W:227:SER:HA	2:W:258:GLY:C	2.44	0.43
2:k:224:MET:N	2:k:255:LEU:O	2.49	0.43
2:k:227:SER:HA	2:k:258:GLY:C	2.44	0.43
2:s:224:MET:N	2:s:255:LEU:O	2.49	0.43
2:x:182:VAL:O	2:x:192:LEU:HA	2.18	0.43
2:2:182:VAL:O	2:2:192:LEU:HA	2.18	0.43
2:6:182:VAL:O	2:6:192:LEU:HA	2.18	0.43
2:7:182:VAL:O	2:7:192:LEU:HA	2.18	0.43
2:B:224:MET:N	2:B:255:LEU:O	2.49	0.43
1:D:49:GLU:O	1:D:79:LEU:HA	2.18	0.43
1:t:49:GLU:O	1:t:79:LEU:HA	2.18	0.43
2:N:224:MET:N	2:N:255:LEU:O	2.49	0.43
2:S:191:MET:HA	2:S:223:ILE:N	2.30	0.43
2:n:227:SER:HA	2:n:258:GLY:C	2.44	0.43
2:r:191:MET:HA	2:r:223:ILE:N	2.30	0.43
2:w:227:SER:HA	2:w:258:GLY:C	2.44	0.43
2:y:191:MET:HA	2:y:223:ILE:N	2.30	0.43
2:4:227:SER:HA	2:4:258:GLY:C	2.44	0.43
2:5:247:THR:O	2:5:252:CYS:N	2.52	0.43
1:e:88:VAL:O	1:e:92:MET:N	2.41	0.42
1:t:111:PHE:HA	1:t:114:LEU:CB	2.49	0.42
2:H:244:THR:O	2:H:245:LYS:C	2.62	0.42
2:I:227:SER:HA	2:I:258:GLY:C	2.44	0.42
2:K:249:LEU:C	2:K:251:GLY:N	2.77	0.42
2:Q:227:SER:HA	2:Q:258:GLY:C	2.44	0.42
2:R:182:VAL:O	2:R:192:LEU:HA	2.18	0.42
2:S:249:LEU:C	2:S:251:GLY:N	2.77	0.42
2:V:236:VAL:O	2:V:237:ALA:C	2.62	0.42
2:V:247:THR:O	2:V:252:CYS:N	2.51	0.42
2:n:236:VAL:O	2:n:237:ALA:C	2.62	0.42
2:p:249:LEU:C	2:p:251:GLY:N	2.77	0.42
2:y:227:SER:HA	2:y:258:GLY:C	2.44	0.42
2:y:249:LEU:C	2:y:251:GLY:N	2.77	0.42
2:2:227:SER:HA	2:2:258:GLY:C	2.44	0.42
2:2:247:THR:O	2:2:252:CYS:N	2.51	0.42
2:4:182:VAL:O	2:4:192:LEU:HA	2.18	0.42
2:4:249:LEU:C	2:4:251:GLY:N	2.77	0.42
2:5:227:SER:HA	2:5:258:GLY:C	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:8:226:ILE:O	2:8:227:SER:C	2.59	0.42
2:B:249:LEU:C	2:B:251:GLY:N	2.77	0.42
1:A:104:VAL:CB	1:A:107:LEU:HA	2.48	0.42
1:e:54:LYS:O	1:e:55:THR:C	2.61	0.42
2:I:236:VAL:O	2:I:237:ALA:C	2.63	0.42
2:V:261:PRO:CB	2:Y:211:LEU:CA	2.97	0.42
2:o:182:VAL:O	2:o:192:LEU:HA	2.18	0.42
2:4:226:ILE:O	2:4:227:SER:C	2.59	0.42
2:9:224:MET:N	2:9:255:LEU:O	2.49	0.42
2:G:182:VAL:O	2:G:192:LEU:HA	2.18	0.42
2:I:182:VAL:O	2:I:192:LEU:HA	2.18	0.42
2:J:182:VAL:O	2:J:192:LEU:HA	2.18	0.42
2:V:227:SER:HA	2:V:258:GLY:C	2.44	0.42
2:W:182:VAL:O	2:W:192:LEU:HA	2.18	0.42
2:l:182:VAL:O	2:l:192:LEU:HA	2.18	0.42
2:1:227:SER:HA	2:1:258:GLY:C	2.44	0.42
2:2:236:VAL:O	2:2:237:ALA:C	2.62	0.42
1:a:54:LYS:O	1:a:55:THR:C	2.61	0.42
1:A:54:LYS:O	1:A:55:THR:C	2.61	0.42
1:O:106:ASP:C	1:O:108:GLU:N	2.77	0.42
2:G:249:LEU:C	2:G:251:GLY:N	2.77	0.42
2:S:236:VAL:O	2:S:237:ALA:C	2.62	0.42
2:X:227:SER:HA	2:X:258:GLY:C	2.44	0.42
2:c:227:SER:HA	2:c:258:GLY:C	2.44	0.42
2:l:249:LEU:C	2:l:251:GLY:N	2.77	0.42
1:a:106:ASP:C	1:a:108:GLU:N	2.77	0.42
1:D:111:PHE:HA	1:D:114:LEU:CB	2.49	0.42
1:e:106:ASP:C	1:e:108:GLU:N	2.76	0.42
2:M:236:VAL:O	2:M:237:ALA:C	2.62	0.42
2:Z:236:VAL:O	2:Z:237:ALA:C	2.62	0.42
2:h:236:VAL:O	2:h:237:ALA:C	2.62	0.42
2:h:249:LEU:C	2:h:251:GLY:N	2.77	0.42
2:n:182:VAL:O	2:n:192:LEU:HA	2.18	0.42
2:7:236:VAL:O	2:7:237:ALA:C	2.62	0.42
2:B:236:VAL:O	2:B:237:ALA:C	2.62	0.42
1:b:106:ASP:C	1:b:108:GLU:N	2.77	0.42
1:O:54:LYS:O	1:O:55:THR:C	2.61	0.42
1:e:111:PHE:HA	1:e:114:LEU:CB	2.49	0.42
1:g:54:LYS:O	1:g:55:THR:C	2.61	0.42
2:G:236:VAL:O	2:G:237:ALA:C	2.62	0.42
2:J:174:ALA:O	2:J:177:ALA:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:236:VAL:O	2:K:237:ALA:C	2.62	0.42
2:M:226:ILE:O	2:M:227:SER:C	2.59	0.42
2:U:191:MET:HA	2:U:223:ILE:N	2.30	0.42
2:c:224:MET:N	2:c:255:LEU:O	2.49	0.42
2:r:236:VAL:O	2:r:237:ALA:C	2.62	0.42
2:w:246:ALA:HB2	2:4:268:VAL:CB	2.50	0.42
2:y:236:VAL:O	2:y:237:ALA:C	2.62	0.42
2:z:227:SER:HA	2:z:258:GLY:C	2.44	0.42
2:8:224:MET:N	2:8:255:LEU:O	2.49	0.42
2:8:227:SER:HA	2:8:258:GLY:C	2.44	0.42
1:a:111:PHE:HA	1:a:114:LEU:CB	2.49	0.42
1:t:106:ASP:C	1:t:108:GLU:N	2.76	0.42
1:u:54:LYS:O	1:u:55:THR:C	2.61	0.42
2:H:268:VAL:CB	2:K:246:ALA:HB2	2.49	0.42
2:S:174:ALA:O	2:S:177:ALA:HB3	2.20	0.42
2:T:227:SER:HA	2:T:258:GLY:C	2.44	0.42
2:T:236:VAL:O	2:T:237:ALA:C	2.62	0.42
2:l:236:VAL:O	2:l:237:ALA:C	2.62	0.42
2:o:174:ALA:O	2:o:177:ALA:HB3	2.20	0.42
2:1:191:MET:HA	2:1:223:ILE:N	2.30	0.42
1:D:106:ASP:C	1:D:108:GLU:N	2.76	0.42
1:f:106:ASP:C	1:f:108:GLU:N	2.76	0.42
1:u:106:ASP:C	1:u:108:GLU:N	2.77	0.42
2:C:224:MET:N	2:C:255:LEU:O	2.49	0.42
2:K:227:SER:HA	2:K:258:GLY:C	2.44	0.42
2:L:249:LEU:C	2:L:251:GLY:N	2.77	0.42
2:M:174:ALA:O	2:M:177:ALA:HB3	2.20	0.42
2:s:236:VAL:O	2:s:237:ALA:C	2.62	0.42
2:z:236:VAL:O	2:z:237:ALA:C	2.62	0.42
2:8:174:ALA:O	2:8:177:ALA:HB3	2.20	0.42
2:G:174:ALA:O	2:G:177:ALA:HB3	2.20	0.42
2:G:227:SER:HA	2:G:258:GLY:C	2.44	0.42
2:Q:191:MET:HA	2:Q:223:ILE:N	2.30	0.42
2:R:174:ALA:O	2:R:177:ALA:HB3	2.20	0.42
2:c:174:ALA:O	2:c:177:ALA:HB3	2.20	0.42
2:i:249:LEU:C	2:i:251:GLY:N	2.77	0.42
2:n:174:ALA:O	2:n:177:ALA:HB3	2.20	0.42
2:o:247:THR:O	2:o:252:CYS:N	2.53	0.42
2:p:227:SER:HA	2:p:258:GLY:C	2.44	0.42
2:p:236:VAL:O	2:p:237:ALA:C	2.62	0.42
2:q:287:LEU:O	2:q:288:GLU:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:r:174:ALA:O	2:r:177:ALA:HB3	2.20	0.42
2:w:191:MET:HA	2:w:223:ILE:N	2.30	0.42
2:x:227:SER:HA	2:x:258:GLY:C	2.44	0.42
2:y:174:ALA:O	2:y:177:ALA:HB3	2.20	0.42
2:1:224:MET:N	2:1:255:LEU:O	2.49	0.42
2:2:224:MET:N	2:2:255:LEU:O	2.49	0.42
2:8:284:ARG:HA	2:9:186:TRP:CB	2.50	0.42
1:g:106:ASP:C	1:g:108:GLU:N	2.76	0.42
1:v:88:VAL:O	1:v:92:MET:N	2.41	0.42
2:C:249:LEU:C	2:C:251:GLY:N	2.77	0.42
2:I:174:ALA:O	2:I:177:ALA:HB3	2.20	0.42
2:N:227:SER:HA	2:N:258:GLY:C	2.44	0.42
2:N:236:VAL:O	2:N:237:ALA:C	2.63	0.42
2:Q:174:ALA:O	2:Q:177:ALA:HB3	2.20	0.42
2:R:227:SER:HA	2:R:258:GLY:C	2.44	0.42
2:X:236:VAL:O	2:X:237:ALA:C	2.62	0.42
2:l:287:LEU:O	2:l:288:GLU:C	2.63	0.42
2:q:290:ALA:C	2:q:292:LYS:N	2.78	0.42
2:r:249:LEU:C	2:r:251:GLY:N	2.77	0.42
2:s:227:SER:HA	2:s:258:GLY:C	2.44	0.42
2:w:174:ALA:O	2:w:177:ALA:HB3	2.20	0.42
2:x:174:ALA:O	2:x:177:ALA:HB3	2.20	0.42
2:z:287:LEU:O	2:z:288:GLU:C	2.63	0.42
2:5:236:VAL:O	2:5:237:ALA:C	2.62	0.42
1:A:79:LEU:O	1:A:103:CYS:HA	2.20	0.41
2:C:287:LEU:O	2:C:288:GLU:C	2.63	0.41
2:E:249:LEU:C	2:E:251:GLY:N	2.77	0.41
2:G:287:LEU:O	2:G:288:GLU:C	2.63	0.41
2:H:290:ALA:C	2:H:292:LYS:N	2.78	0.41
2:Q:290:ALA:C	2:Q:292:LYS:N	2.78	0.41
2:T:249:LEU:C	2:T:251:GLY:N	2.77	0.41
2:T:287:LEU:O	2:T:288:GLU:C	2.63	0.41
2:V:174:ALA:O	2:V:177:ALA:HB3	2.20	0.41
2:l:174:ALA:O	2:l:177:ALA:HB3	2.20	0.41
2:l:227:SER:HA	2:l:258:GLY:C	2.44	0.41
2:m:290:ALA:C	2:m:292:LYS:N	2.78	0.41
2:p:284:ARG:HA	2:q:186:TRP:CB	2.49	0.41
2:w:290:ALA:C	2:w:292:LYS:N	2.78	0.41
2:z:249:LEU:C	2:z:251:GLY:N	2.77	0.41
2:2:174:ALA:O	2:2:177:ALA:HB3	2.20	0.41
1:O:88:VAL:O	1:O:92:MET:N	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:79:LEU:O	1:v:103:CYS:HA	2.20	0.41
2:H:247:THR:O	2:H:252:CYS:N	2.52	0.41
2:Y:290:ALA:C	2:Y:292:LYS:N	2.78	0.41
2:i:191:MET:HA	2:i:223:ILE:N	2.30	0.41
2:i:224:MET:N	2:i:255:LEU:O	2.49	0.41
2:l:224:MET:N	2:l:255:LEU:O	2.49	0.41
2:s:191:MET:HA	2:s:223:ILE:N	2.30	0.41
2:6:290:ALA:C	2:6:292:LYS:N	2.78	0.41
2:9:236:VAL:O	2:9:237:ALA:C	2.62	0.41
2:B:174:ALA:O	2:B:177:ALA:HB3	2.20	0.41
1:A:106:ASP:C	1:A:108:GLU:N	2.76	0.41
1:e:104:VAL:CB	1:e:107:LEU:HA	2.50	0.41
2:C:174:ALA:O	2:C:177:ALA:HB3	2.20	0.41
2:U:290:ALA:C	2:U:292:LYS:N	2.78	0.41
2:Z:174:ALA:O	2:Z:177:ALA:HB3	2.20	0.41
2:i:287:LEU:O	2:i:288:GLU:C	2.63	0.41
1:f:88:VAL:O	1:f:92:MET:N	2.41	0.41
1:u:88:VAL:O	1:u:92:MET:N	2.41	0.41
2:J:247:THR:O	2:J:252:CYS:N	2.53	0.41
2:K:174:ALA:O	2:K:177:ALA:HB3	2.20	0.41
2:N:191:MET:HA	2:N:223:ILE:N	2.30	0.41
2:V:224:MET:N	2:V:255:LEU:O	2.49	0.41
2:X:243:ILE:O	2:X:246:ALA:HB3	2.20	0.41
2:Y:174:ALA:O	2:Y:177:ALA:HB3	2.20	0.41
2:Z:290:ALA:C	2:Z:292:LYS:N	2.78	0.41
2:d:236:VAL:O	2:d:237:ALA:C	2.62	0.41
2:i:174:ALA:O	2:i:177:ALA:HB3	2.20	0.41
2:q:174:ALA:O	2:q:177:ALA:HB3	2.20	0.41
2:s:228:GLY:O	2:s:229:VAL:C	2.64	0.41
2:z:174:ALA:O	2:z:177:ALA:HB3	2.20	0.41
2:5:243:ILE:O	2:5:246:ALA:HB3	2.20	0.41
2:6:174:ALA:O	2:6:177:ALA:HB3	2.20	0.41
2:F:174:ALA:O	2:F:177:ALA:HB3	2.20	0.41
2:H:236:VAL:O	2:H:237:ALA:C	2.62	0.41
2:L:174:ALA:O	2:L:177:ALA:HB3	2.20	0.41
2:L:228:GLY:O	2:L:229:VAL:C	2.64	0.41
2:N:228:GLY:O	2:N:229:VAL:C	2.64	0.41
2:V:287:LEU:O	2:V:288:GLU:C	2.63	0.41
2:X:287:LEU:O	2:X:288:GLU:C	2.63	0.41
2:Y:249:LEU:C	2:Y:251:GLY:N	2.77	0.41
2:d:174:ALA:O	2:d:177:ALA:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:j:236:VAL:O	2:j:237:ALA:C	2.62	0.41
2:j:287:LEU:O	2:j:288:GLU:C	2.63	0.41
2:k:174:ALA:O	2:k:177:ALA:HB3	2.20	0.41
2:o:244:THR:O	2:o:245:LYS:C	2.64	0.41
2:p:174:ALA:O	2:p:177:ALA:HB3	2.20	0.41
2:x:249:LEU:C	2:x:251:GLY:N	2.77	0.41
2:2:287:LEU:O	2:2:288:GLU:C	2.63	0.41
2:6:249:LEU:C	2:6:251:GLY:N	2.77	0.41
2:7:174:ALA:O	2:7:177:ALA:HB3	2.20	0.41
2:7:290:ALA:C	2:7:292:LYS:N	2.78	0.41
1:v:106:ASP:C	1:v:108:GLU:N	2.76	0.41
2:C:236:VAL:O	2:C:237:ALA:C	2.62	0.41
2:F:290:ALA:C	2:F:292:LYS:N	2.78	0.41
2:I:224:MET:N	2:I:255:LEU:O	2.49	0.41
2:K:290:ALA:C	2:K:292:LYS:N	2.78	0.41
2:R:236:VAL:O	2:R:237:ALA:C	2.62	0.41
2:T:174:ALA:O	2:T:177:ALA:HB3	2.20	0.41
2:X:247:THR:O	2:X:252:CYS:N	2.54	0.41
2:Y:236:VAL:O	2:Y:237:ALA:C	2.62	0.41
2:j:249:LEU:C	2:j:251:GLY:N	2.77	0.41
2:k:290:ALA:C	2:k:292:LYS:N	2.78	0.41
2:l:290:ALA:C	2:l:292:LYS:N	2.78	0.41
2:m:236:VAL:O	2:m:237:ALA:C	2.62	0.41
2:E:236:VAL:O	2:E:237:ALA:C	2.62	0.41
2:G:224:MET:N	2:G:255:LEU:O	2.49	0.41
2:G:290:ALA:C	2:G:292:LYS:N	2.78	0.41
2:R:249:LEU:C	2:R:251:GLY:N	2.77	0.41
2:U:174:ALA:O	2:U:177:ALA:HB3	2.20	0.41
2:U:224:MET:N	2:U:255:LEU:O	2.49	0.41
2:W:174:ALA:O	2:W:177:ALA:HB3	2.20	0.41
2:d:287:LEU:O	2:d:288:GLU:C	2.63	0.41
2:h:174:ALA:O	2:h:177:ALA:HB3	2.20	0.41
2:q:249:LEU:C	2:q:251:GLY:N	2.77	0.41
2:y:287:LEU:O	2:y:288:GLU:C	2.63	0.41
2:6:236:VAL:O	2:6:237:ALA:C	2.62	0.41
2:9:287:LEU:O	2:9:288:GLU:C	2.63	0.41
2:N:174:ALA:O	2:N:177:ALA:HB3	2.20	0.41
2:N:290:ALA:C	2:N:292:LYS:N	2.78	0.41
2:S:287:LEU:O	2:S:288:GLU:C	2.63	0.41
2:i:236:VAL:O	2:i:237:ALA:C	2.62	0.41
2:o:287:LEU:O	2:o:288:GLU:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s:244:THR:O	2:s:245:LYS:C	2.64	0.41
2:s:290:ALA:C	2:s:292:LYS:N	2.78	0.41
2:4:174:ALA:O	2:4:177:ALA:HB3	2.20	0.41
2:5:287:LEU:O	2:5:288:GLU:C	2.63	0.41
2:9:174:ALA:O	2:9:177:ALA:HB3	2.20	0.41
1:t:104:VAL:CB	1:t:107:LEU:HA	2.51	0.41
2:G:228:GLY:O	2:G:229:VAL:C	2.64	0.41
2:H:174:ALA:O	2:H:177:ALA:HB3	2.20	0.41
2:I:290:ALA:C	2:I:292:LYS:N	2.78	0.41
2:J:287:LEU:O	2:J:288:GLU:C	2.63	0.41
2:K:287:LEU:O	2:K:288:GLU:C	2.63	0.41
2:S:244:THR:O	2:S:245:LYS:C	2.64	0.41
2:T:290:ALA:C	2:T:292:LYS:N	2.78	0.41
2:X:174:ALA:O	2:X:177:ALA:HB3	2.20	0.41
2:Z:224:MET:N	2:Z:255:LEU:O	2.49	0.41
2:Z:287:LEU:O	2:Z:288:GLU:C	2.63	0.41
2:c:236:VAL:O	2:c:237:ALA:C	2.62	0.41
2:c:290:ALA:C	2:c:292:LYS:N	2.78	0.41
2:l:228:GLY:O	2:l:229:VAL:C	2.64	0.41
2:q:228:GLY:O	2:q:229:VAL:C	2.64	0.41
2:s:174:ALA:O	2:s:177:ALA:HB3	2.20	0.41
2:x:236:VAL:O	2:x:237:ALA:C	2.62	0.41
2:y:244:THR:O	2:y:245:LYS:C	2.64	0.41
2:1:174:ALA:O	2:1:177:ALA:HB3	2.20	0.41
2:7:287:LEU:O	2:7:288:GLU:C	2.63	0.41
2:8:236:VAL:O	2:8:237:ALA:C	2.62	0.41
2:8:290:ALA:C	2:8:292:LYS:N	2.78	0.41
1:O:10:LEU:O	1:O:11:GLN:C	2.64	0.41
2:E:174:ALA:O	2:E:177:ALA:HB3	2.20	0.41
2:E:228:GLY:O	2:E:229:VAL:C	2.64	0.41
2:F:249:LEU:C	2:F:251:GLY:N	2.77	0.41
2:I:249:LEU:C	2:I:251:GLY:N	2.77	0.41
2:Y:228:GLY:O	2:Y:229:VAL:C	2.64	0.41
2:Z:244:THR:O	2:Z:245:LYS:C	2.64	0.41
2:k:249:LEU:C	2:k:251:GLY:N	2.77	0.41
2:m:174:ALA:O	2:m:177:ALA:HB3	2.20	0.41
2:o:224:MET:N	2:o:255:LEU:O	2.49	0.41
2:z:290:ALA:C	2:z:292:LYS:N	2.78	0.41
2:6:287:LEU:O	2:6:288:GLU:C	2.63	0.41
2:7:244:THR:O	2:7:245:LYS:C	2.64	0.41
2:R:287:LEU:O	2:R:288:GLU:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:S:290:ALA:C	2:S:292:LYS:N	2.78	0.40
2:Y:244:THR:O	2:Y:245:LYS:C	2.64	0.40
2:h:287:LEU:O	2:h:288:GLU:C	2.63	0.40
2:j:228:GLY:O	2:j:229:VAL:C	2.64	0.40
2:p:186:TRP:CB	2:q:284:ARG:HA	2.51	0.40
2:5:174:ALA:O	2:5:177:ALA:HB3	2.20	0.40
2:6:228:GLY:O	2:6:229:VAL:C	2.64	0.40
2:6:244:THR:O	2:6:245:LYS:C	2.64	0.40
2:7:224:MET:N	2:7:255:LEU:O	2.49	0.40
1:D:10:LEU:O	1:D:11:GLN:C	2.64	0.40
1:u:10:LEU:O	1:u:11:GLN:C	2.64	0.40
2:J:224:MET:N	2:J:255:LEU:O	2.49	0.40
2:J:243:ILE:O	2:J:246:ALA:HB3	2.21	0.40
2:M:244:THR:O	2:M:245:LYS:C	2.64	0.40
2:W:287:LEU:O	2:W:288:GLU:C	2.63	0.40
2:X:224:MET:N	2:X:255:LEU:O	2.49	0.40
2:Y:287:LEU:O	2:Y:288:GLU:C	2.63	0.40
2:j:174:ALA:O	2:j:177:ALA:HB3	2.20	0.40
2:j:244:THR:O	2:j:245:LYS:C	2.64	0.40
2:m:244:THR:O	2:m:245:LYS:C	2.63	0.40
2:n:290:ALA:C	2:n:292:LYS:N	2.78	0.40
2:p:287:LEU:O	2:p:288:GLU:C	2.63	0.40
2:x:287:LEU:O	2:x:288:GLU:C	2.63	0.40
2:y:290:ALA:C	2:y:292:LYS:N	2.78	0.40
2:4:287:LEU:O	2:4:288:GLU:C	2.63	0.40
1:b:10:LEU:O	1:b:11:GLN:C	2.64	0.40
2:F:236:VAL:O	2:F:237:ALA:C	2.62	0.40
2:J:244:THR:O	2:J:245:LYS:C	2.64	0.40
2:c:244:THR:O	2:c:245:LYS:C	2.64	0.40
2:w:290:ALA:C	2:w:292:LYS:H	2.30	0.40
2:8:244:THR:O	2:8:245:LYS:C	2.64	0.40
1:A:10:LEU:O	1:A:11:GLN:C	2.64	0.40
1:D:79:LEU:O	1:D:103:CYS:HA	2.21	0.40
1:P:104:VAL:CB	1:P:107:LEU:HA	2.51	0.40
1:f:10:LEU:O	1:f:11:GLN:C	2.64	0.40
1:g:10:LEU:O	1:g:11:GLN:C	2.64	0.40
2:E:211:LEU:CA	2:1:261:PRO:CB	2.99	0.40
2:E:244:THR:O	2:E:245:LYS:C	2.64	0.40
2:H:290:ALA:C	2:H:292:LYS:H	2.30	0.40
2:Q:228:GLY:O	2:Q:229:VAL:C	2.64	0.40
2:Q:290:ALA:C	2:Q:292:LYS:H	2.30	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:244:THR:O	2:V:245:LYS:C	2.64	0.40
2:k:236:VAL:O	2:k:237:ALA:C	2.62	0.40
2:n:249:LEU:C	2:n:251:GLY:N	2.77	0.40
2:w:228:GLY:O	2:w:229:VAL:C	2.64	0.40
2:x:244:THR:O	2:x:245:LYS:C	2.64	0.40
2:2:228:GLY:O	2:2:229:VAL:C	2.64	0.40
2:4:290:ALA:C	2:4:292:LYS:N	2.78	0.40
2:7:290:ALA:C	2:7:292:LYS:H	2.30	0.40
1:t:10:LEU:O	1:t:11:GLN:C	2.65	0.40
2:E:287:LEU:O	2:E:288:GLU:C	2.63	0.40
2:E:290:ALA:C	2:E:292:LYS:H	2.30	0.40
2:K:244:THR:O	2:K:245:LYS:C	2.64	0.40
2:R:290:ALA:C	2:R:292:LYS:H	2.30	0.40
2:V:228:GLY:O	2:V:229:VAL:C	2.64	0.40
2:j:290:ALA:C	2:j:292:LYS:H	2.30	0.40
2:m:287:LEU:O	2:m:288:GLU:C	2.63	0.40
2:m:290:ALA:C	2:m:292:LYS:H	2.30	0.40
2:r:244:THR:O	2:r:245:LYS:C	2.64	0.40
2:x:290:ALA:C	2:x:292:LYS:H	2.30	0.40
2:1:228:GLY:O	2:1:229:VAL:C	2.64	0.40
2:5:224:MET:N	2:5:255:LEU:O	2.49	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

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.

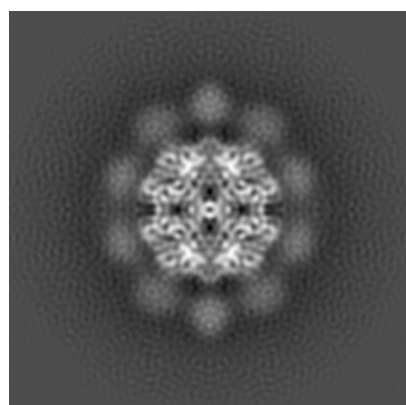
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-12676. These allow visual inspection of the internal detail of the map and identification of artifacts.

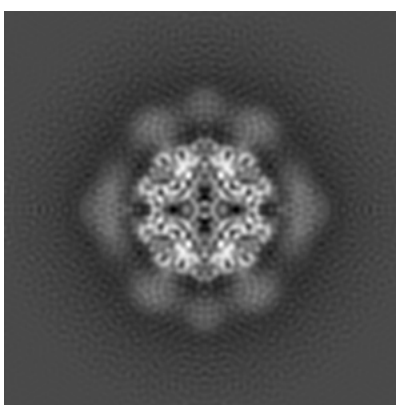
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

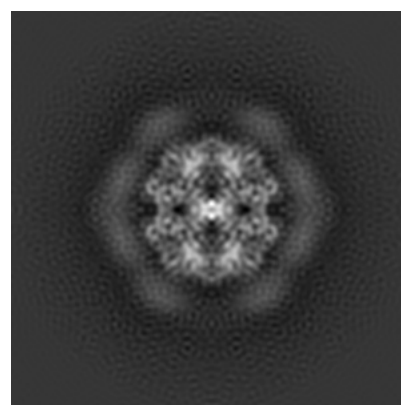
6.1.1 Primary map



X



Y

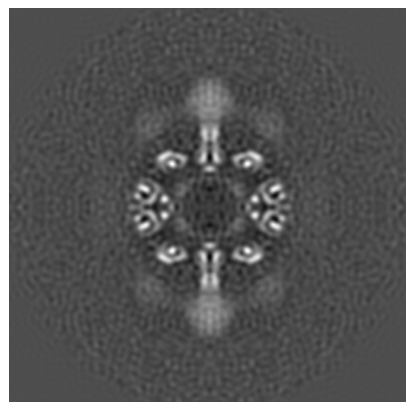


Z

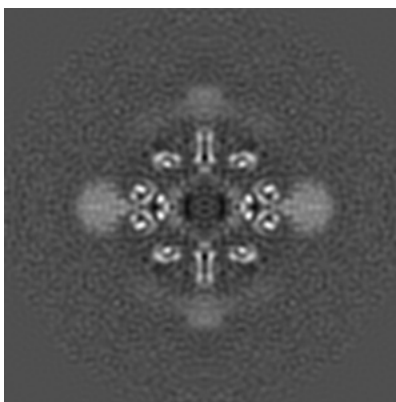
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

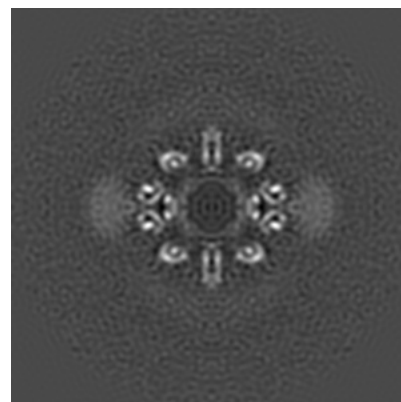
6.2.1 Primary map



X Index: 125



Y Index: 125

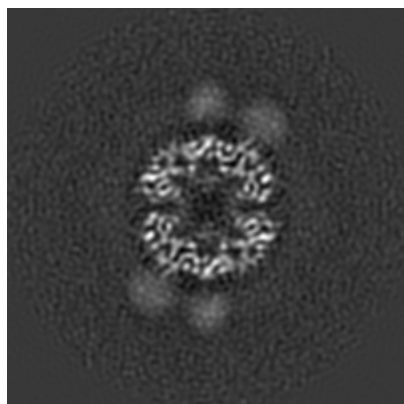


Z Index: 125

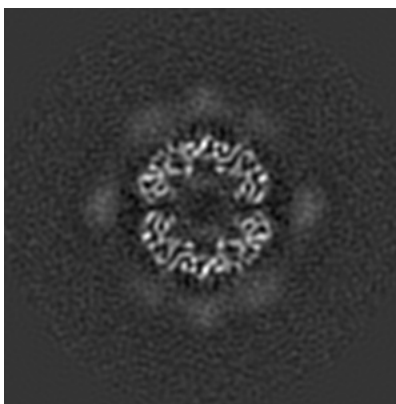
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

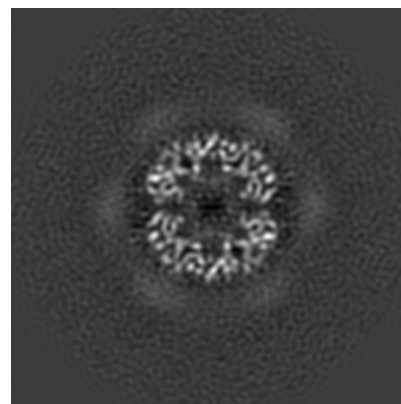
6.3.1 Primary map



X Index: 136



Y Index: 136

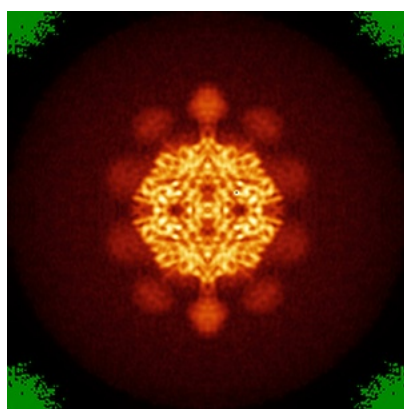


Z Index: 136

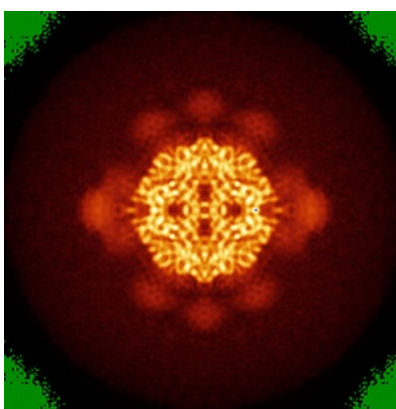
The images above show the largest variance slices of the map in three orthogonal directions.

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

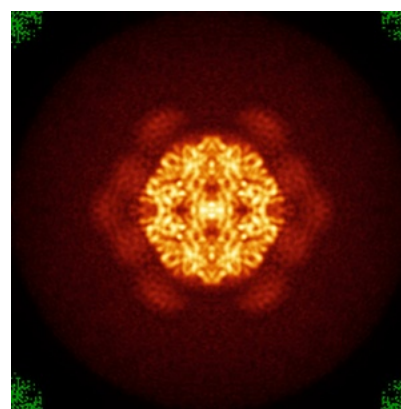
6.4.1 Primary map



X



Y

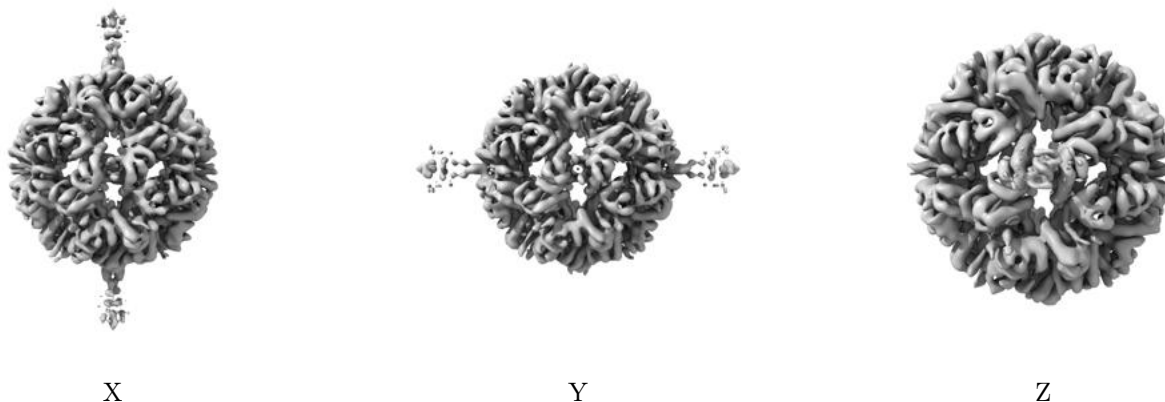


Z

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



The images above show the 3D surface view of the map at the recommended contour level 0.13. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

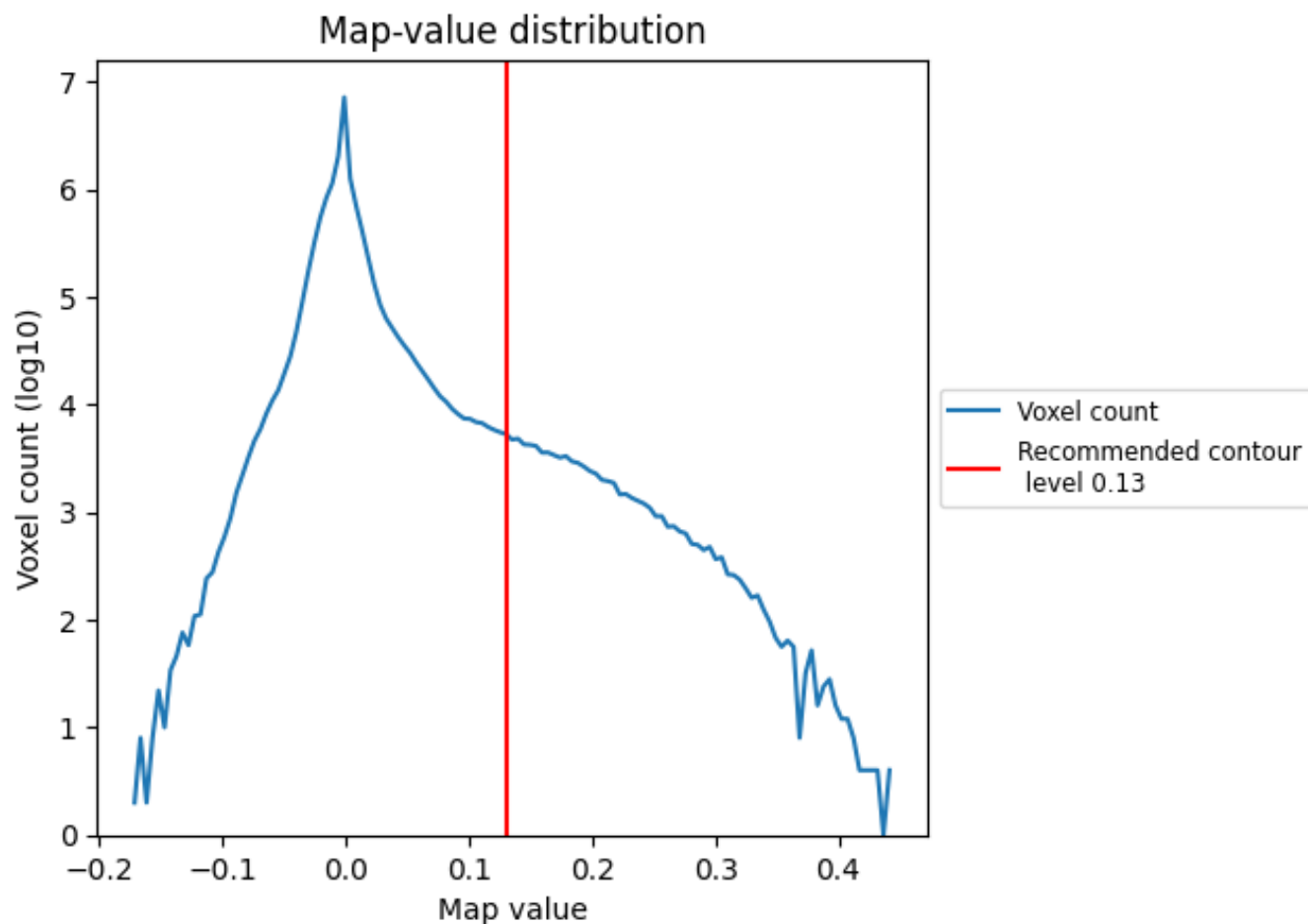
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

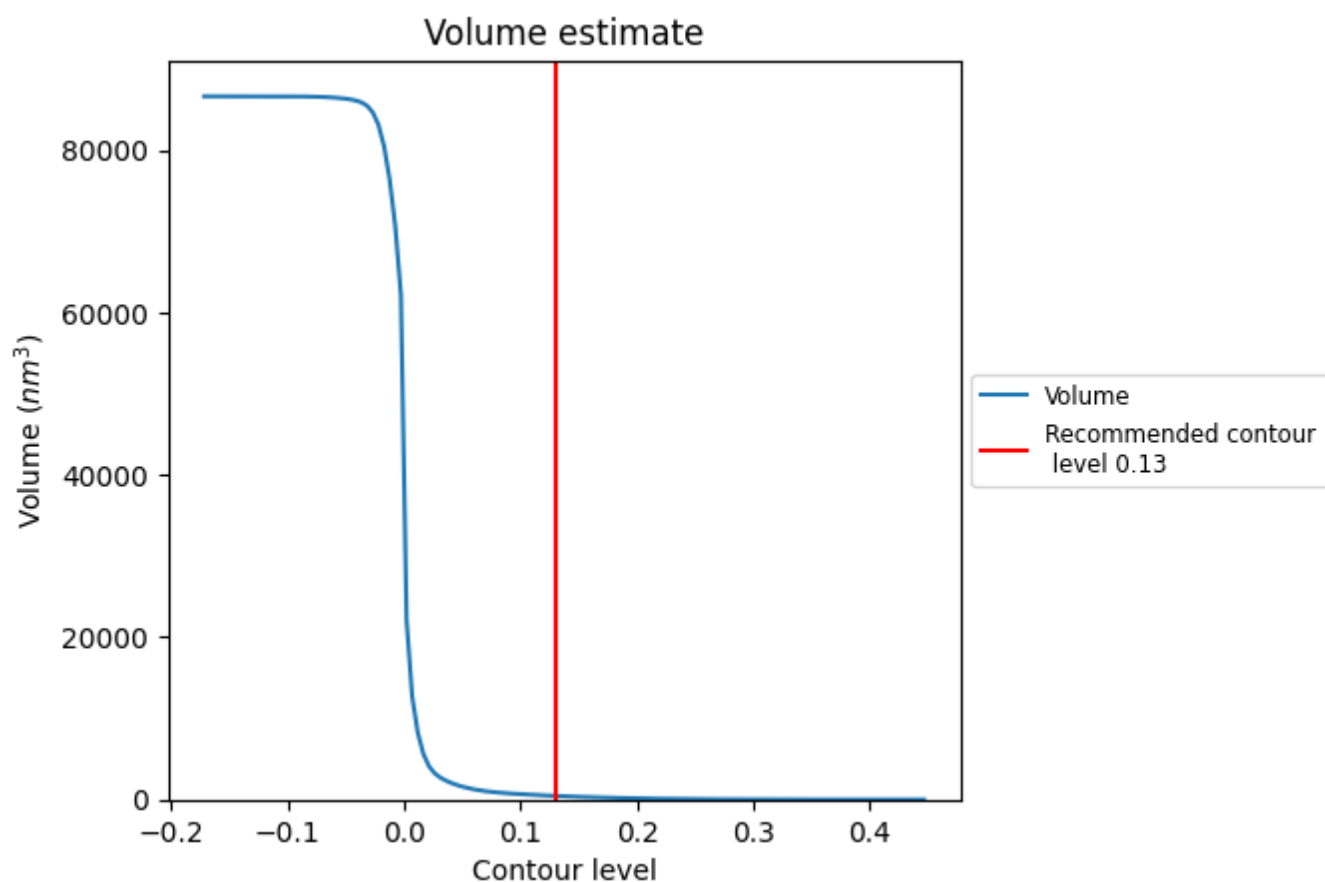
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

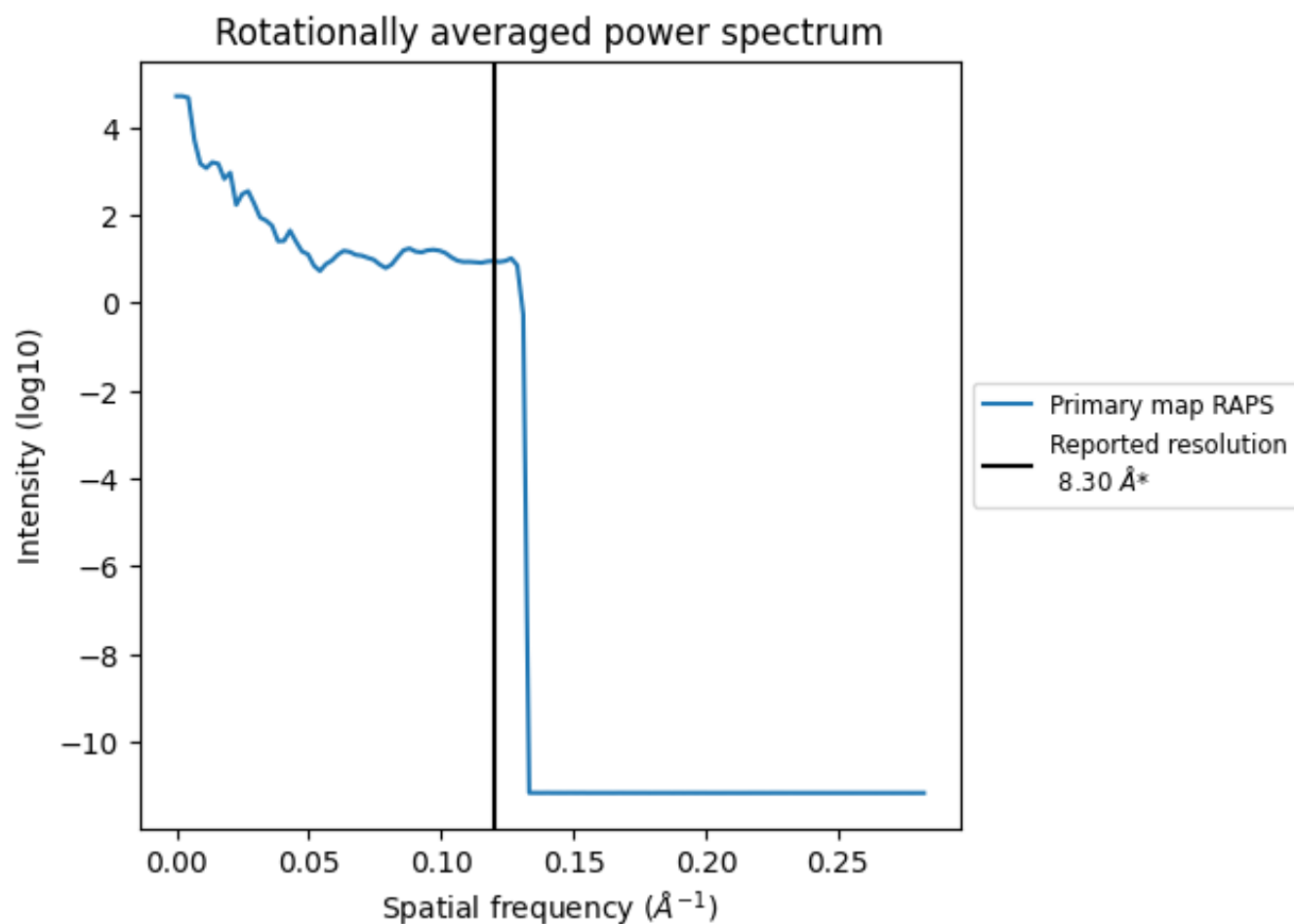
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 447 nm³; this corresponds to an approximate mass of 404 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 ⓘ



*Reported resolution corresponds to spatial frequency of 0.120 Å⁻¹

8 Fourier-Shell correlation

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

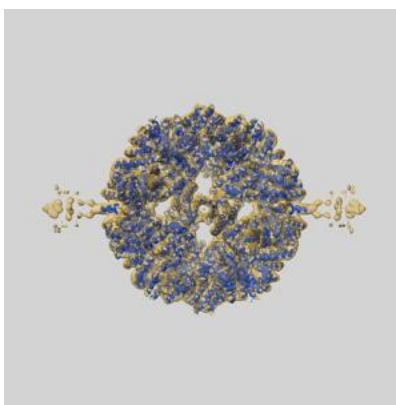
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-12676 and PDB model 7O0I. Per-residue inclusion information can be found in section 3 on page 10.

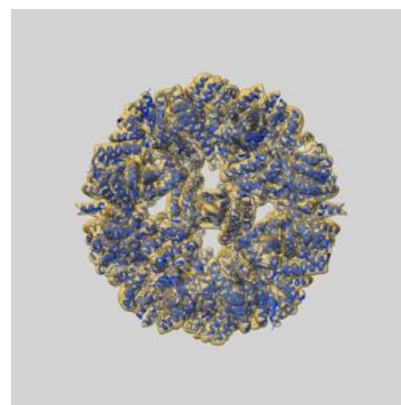
9.1 Map-model overlay [i](#)



X



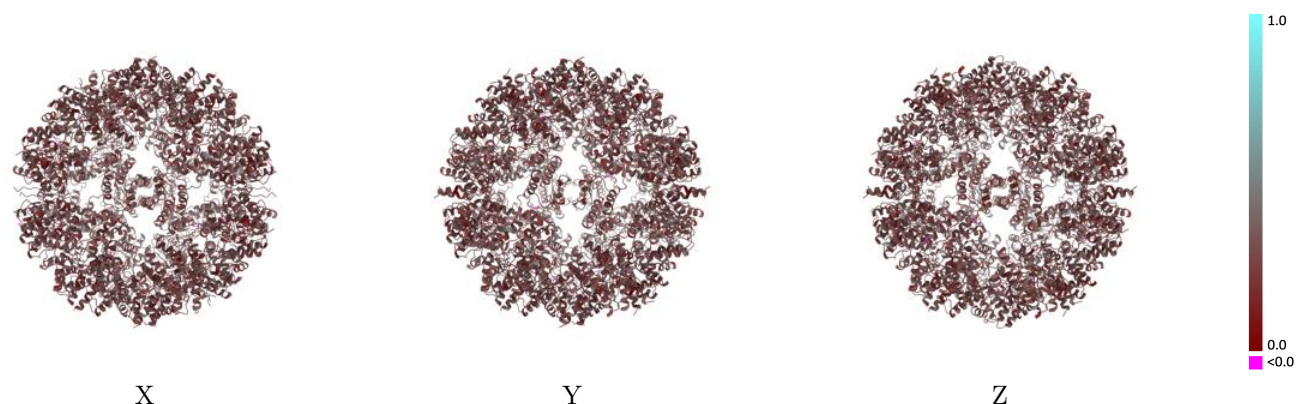
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.13 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](#)

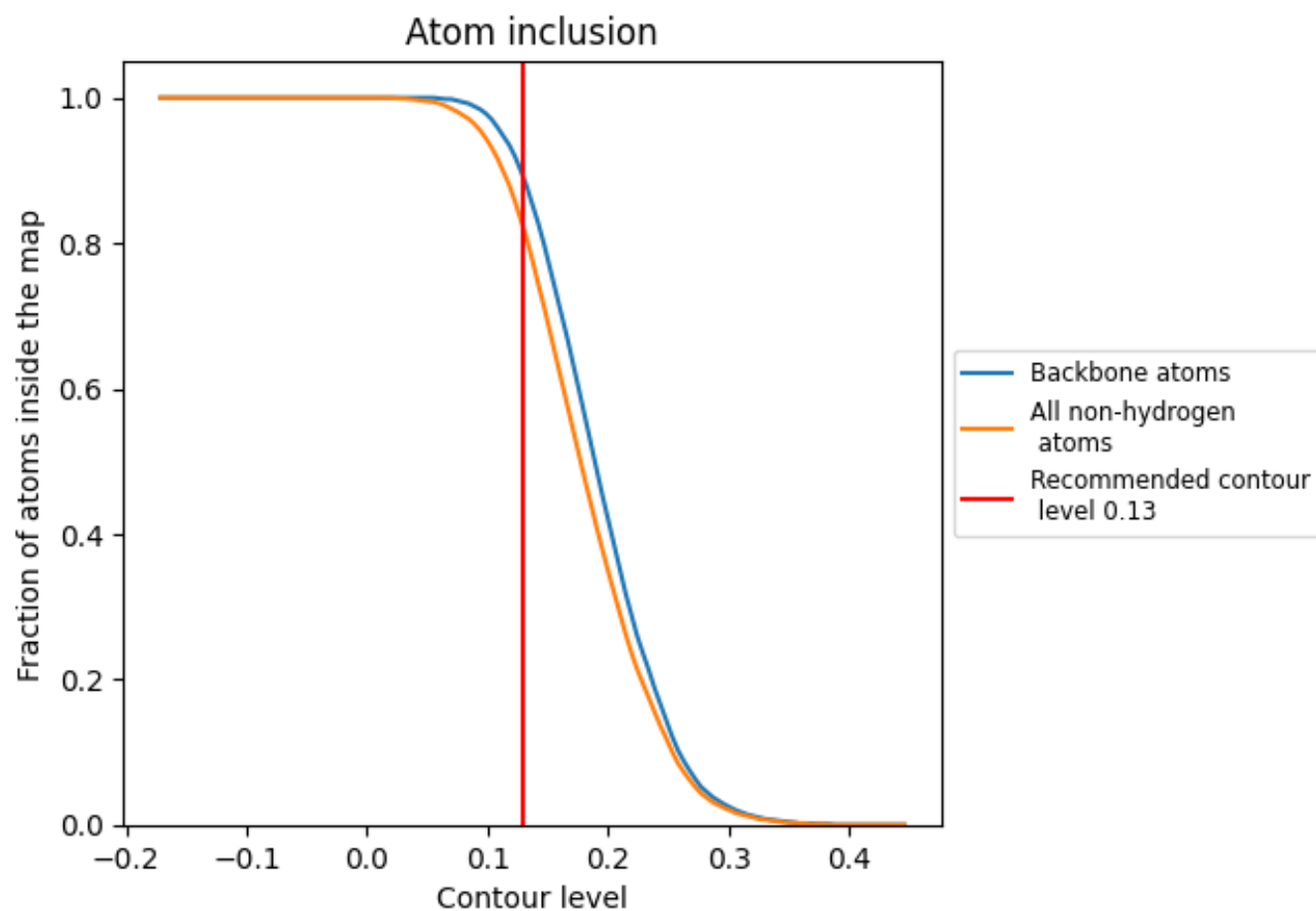


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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](#)

This section was not generated.

9.4 Atom inclusion [i](#)



At the recommended contour level, 89% of all backbone atoms, 82% 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 (0.13) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8200	 0.2880
1	 0.8170	 0.2880
2	 0.8450	 0.2850
4	 0.7870	 0.2740
5	 0.8370	 0.2910
6	 0.8170	 0.2870
7	 0.8170	 0.2810
8	 0.8130	 0.2800
9	 0.8010	 0.2860
A	 0.8260	 0.2910
B	 0.8400	 0.3020
C	 0.7820	 0.2850
D	 0.8560	 0.3140
E	 0.8270	 0.2900
F	 0.7920	 0.2850
G	 0.8300	 0.2850
H	 0.8430	 0.2850
I	 0.7870	 0.2700
J	 0.8420	 0.2900
K	 0.8240	 0.2900
L	 0.8210	 0.2770
M	 0.8130	 0.2800
N	 0.8060	 0.2860
O	 0.8530	 0.2860
P	 0.8310	 0.2920
Q	 0.8290	 0.2990
R	 0.7800	 0.2840
S	 0.8270	 0.2910
T	 0.7980	 0.2870
U	 0.8130	 0.2890
V	 0.8500	 0.2850
W	 0.7850	 0.2710
X	 0.8320	 0.2900
Y	 0.8210	 0.2920
Z	 0.8170	 0.2780



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Chain	Atom inclusion	Q-score
a	 0.8560	 0.3150
b	 0.8490	 0.2840
c	 0.8040	 0.2800
d	 0.8130	 0.2870
e	 0.8600	 0.3160
f	 0.8470	 0.2840
g	 0.8350	 0.2920
h	 0.8320	 0.3000
i	 0.7830	 0.2830
j	 0.8290	 0.2940
k	 0.7930	 0.2870
l	 0.8210	 0.2890
m	 0.8430	 0.2860
n	 0.7880	 0.2710
o	 0.8350	 0.2910
p	 0.8170	 0.2910
q	 0.8140	 0.2800
r	 0.8040	 0.2790
s	 0.8090	 0.2850
t	 0.8450	 0.3160
u	 0.8440	 0.2870
v	 0.8270	 0.2880
w	 0.8370	 0.3010
x	 0.7930	 0.2840
y	 0.8240	 0.2910
z	 0.7920	 0.2850