



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 01:46 AM UTC

PDB ID : 6P3E / pdb_00006p3e
EMDB ID : EMD-20241
Title : Mobile loops and electrostatic interactions maintain the flexible lambda tail tube
Authors : Campbell, P.; Duda, R.L.; Nassur, J.; Hendrix, R.W.; Conway, J.F.; Huet, A.
Deposited on : 2019-05-23
Resolution : 5.40 Å (reported)
Based on initial models : 2K4Q, 2L04

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:

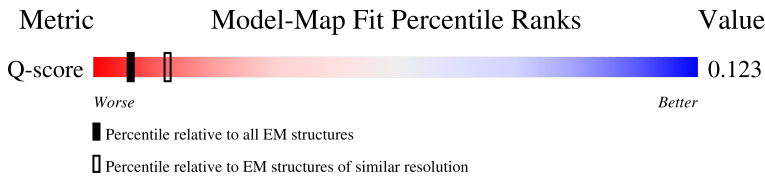
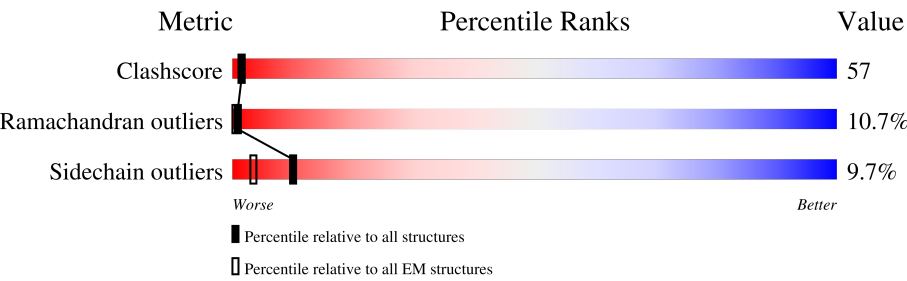
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 5.40 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	538 (4.90 - 5.90)

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	246	47% 63% 24% 11%
1	B	246	48% 63% 24% 11%
1	C	246	48% 63% 23% 11%
1	D	246	48% 63% 24% 10%

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Mol	Chain	Length	Quality of chain
1	E	246	48% 63% 23% 11%
1	F	246	48% 64% 23% 10%
1	G	246	48% 61% 24% 11%
1	H	246	48% 62% 23% 12%
1	I	246	48% 63% 23% 12%
1	J	246	48% 63% 23% 11%
1	K	246	49% 61% 24% 12%
1	L	246	48% 61% 24% 11%
1	M	246	48% 63% 24% 11%
1	N	246	48% 62% 24% 11%
1	O	246	48% 63% 23% 11%
1	P	246	48% 63% 23% 10%
1	Q	246	49% 63% 24% 11%
1	R	246	48% 63% 23% 10%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 64836 atoms, of which 32166 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 Tail tube protein.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	B	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	C	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	D	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	E	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	F	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	G	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	H	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	I	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	J	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	K	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	L	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	M	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	N	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	O	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	P	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		
1	Q	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		

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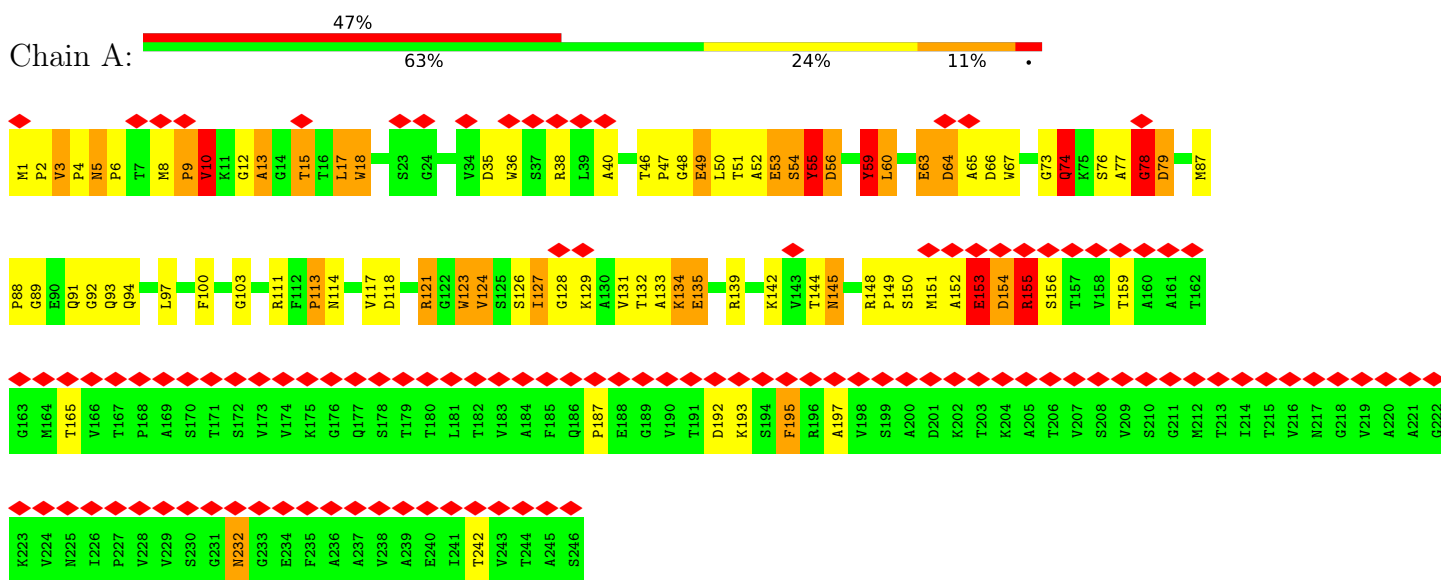
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Mol	Chain	Residues	Atoms						AltConf	Trace
1	R	246	Total	C	H	N	O	S	0	0
			3602	1134	1787	305	370	6		

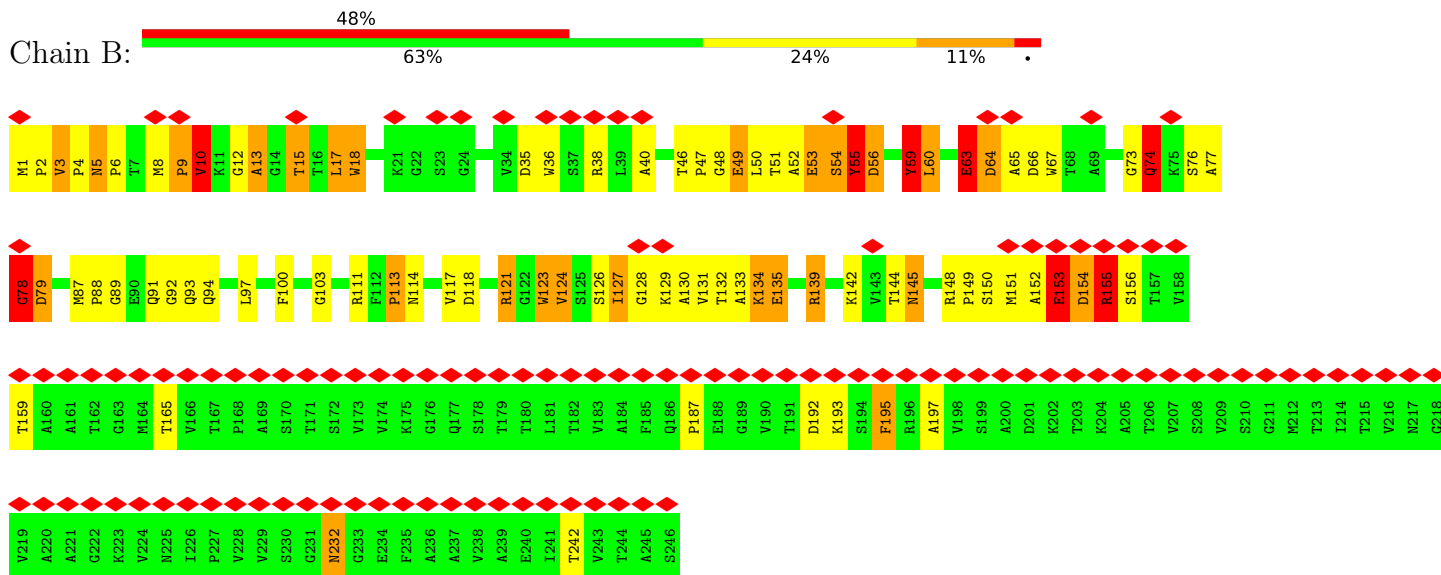
3 Residue-property plots

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.

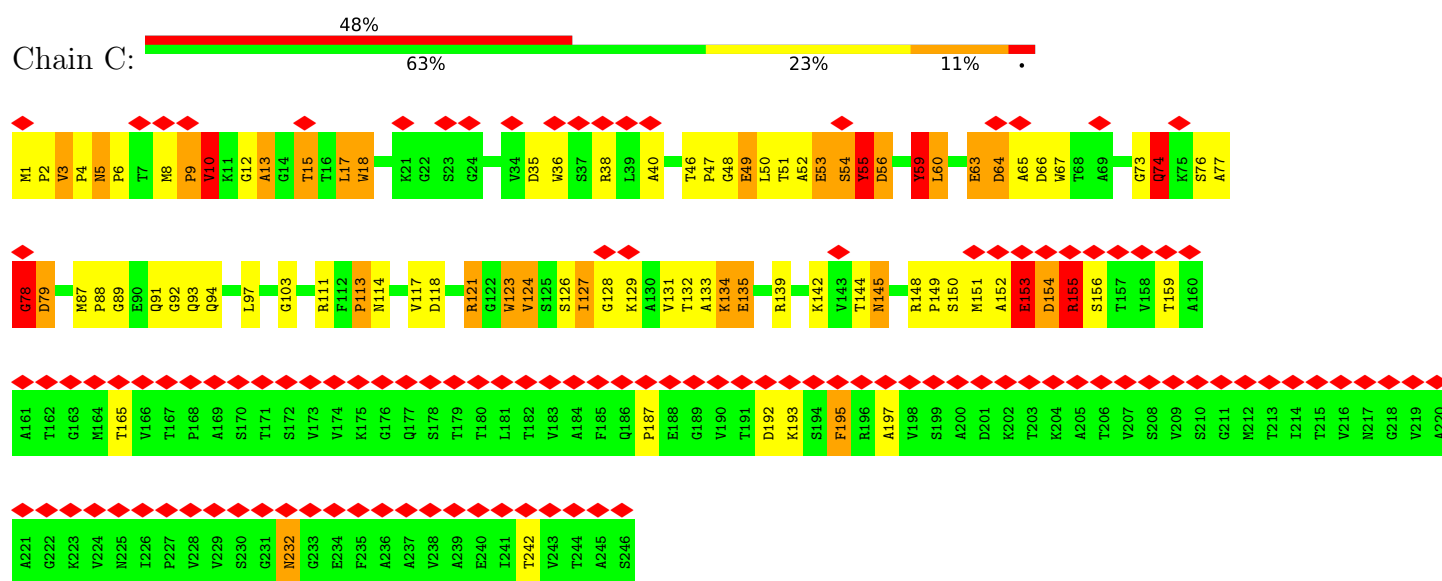
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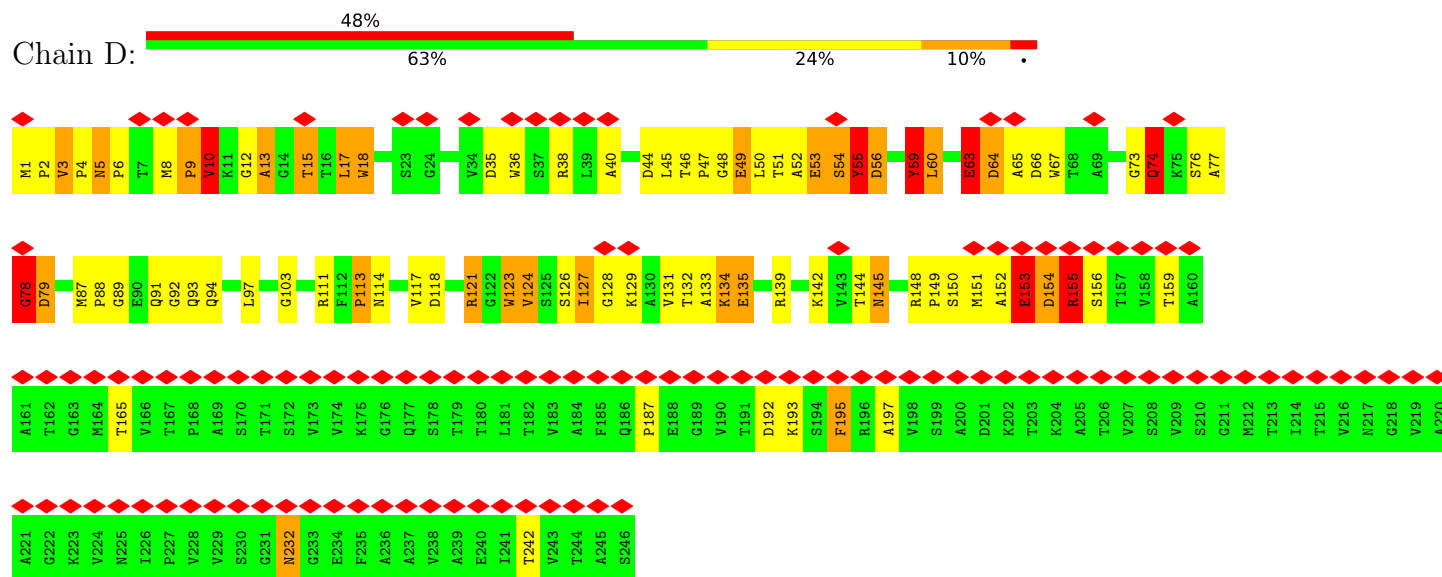
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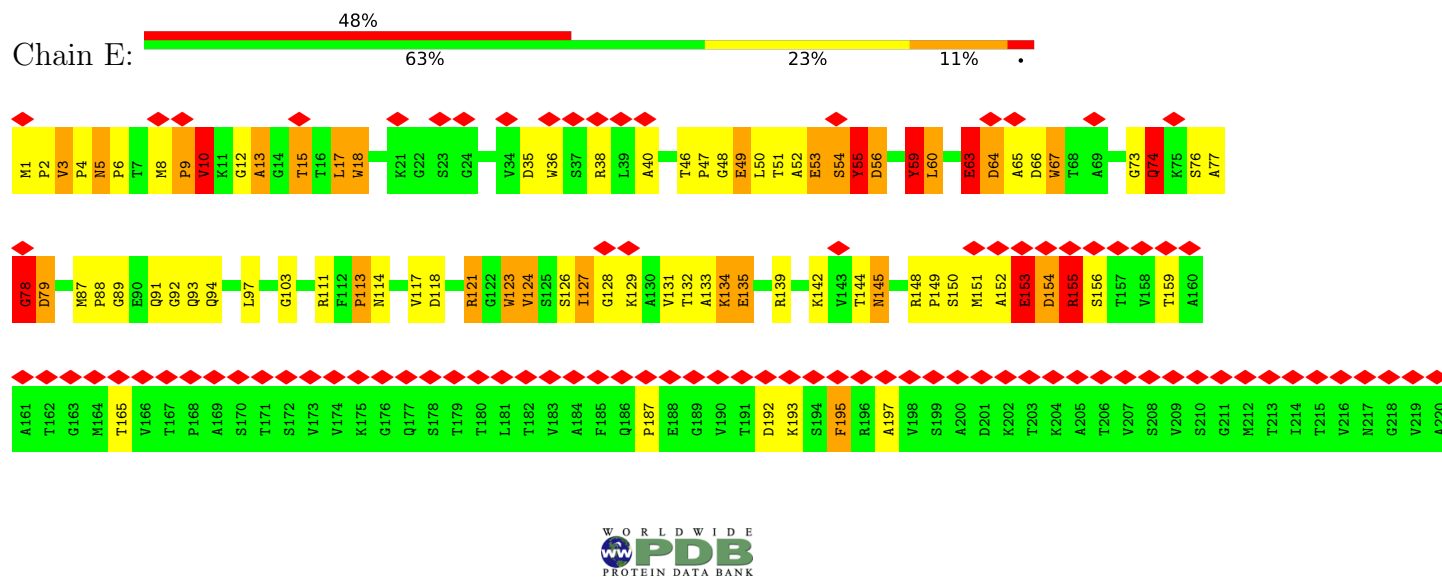
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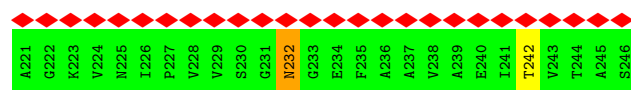


• Molecule 1: Tail tube protein

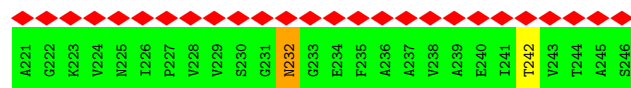
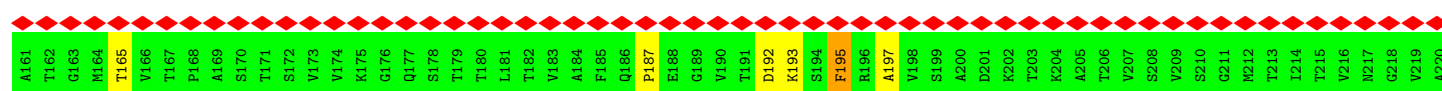
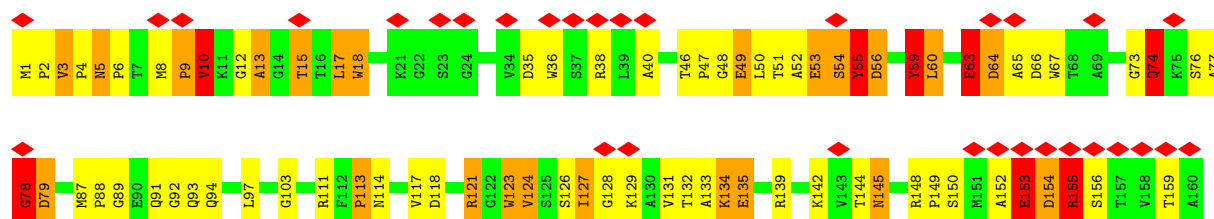


• Molecule 1: Tail tube protein

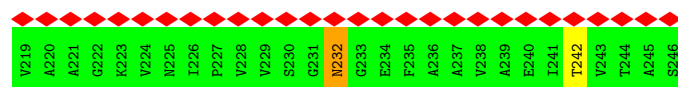
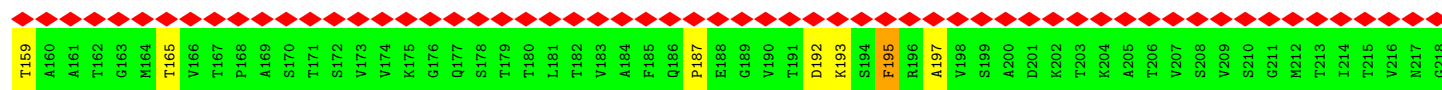
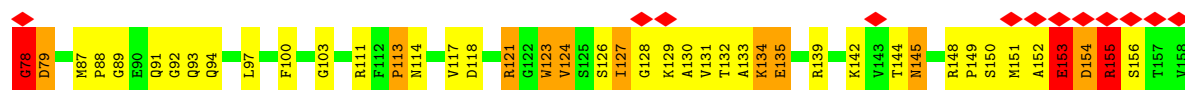
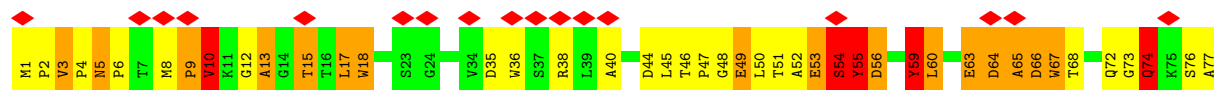




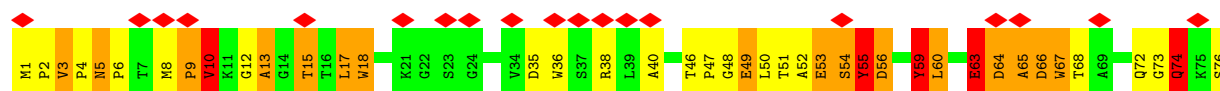
• Molecule 1: Tail tube protein

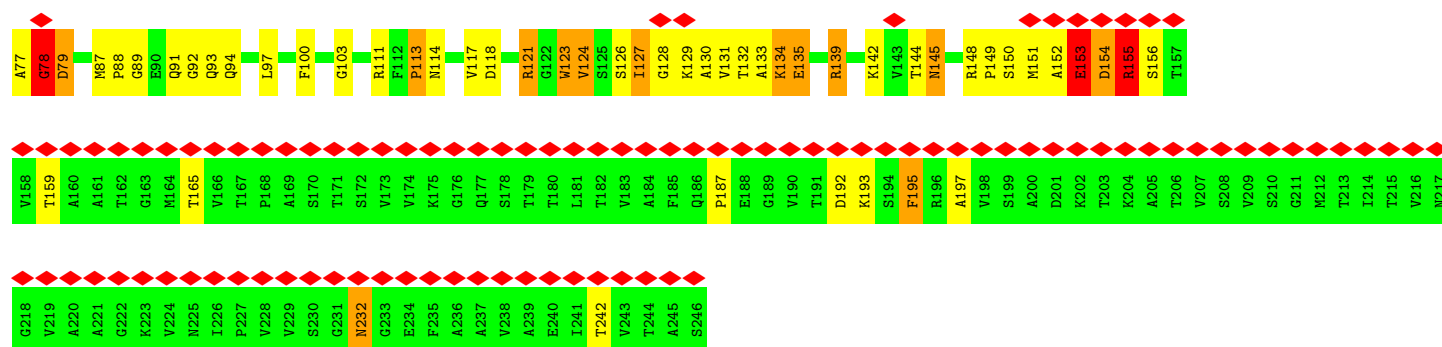


• Molecule 1: Tail tube protein

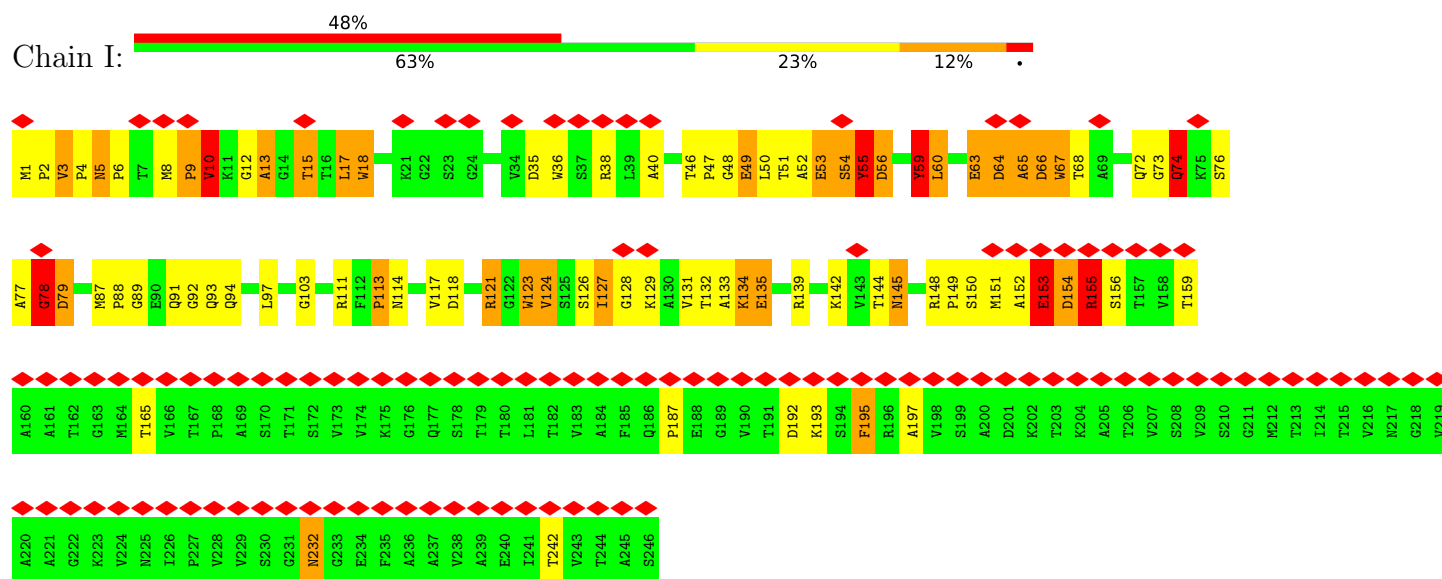


• Molecule 1: Tail tube protein

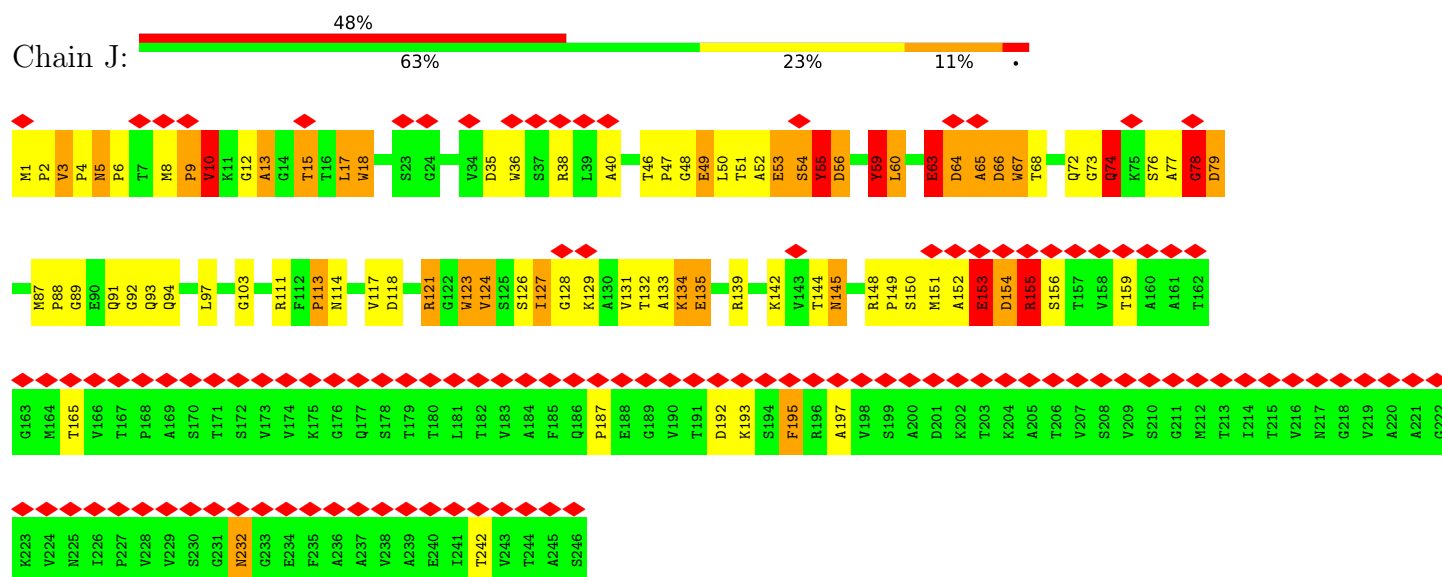




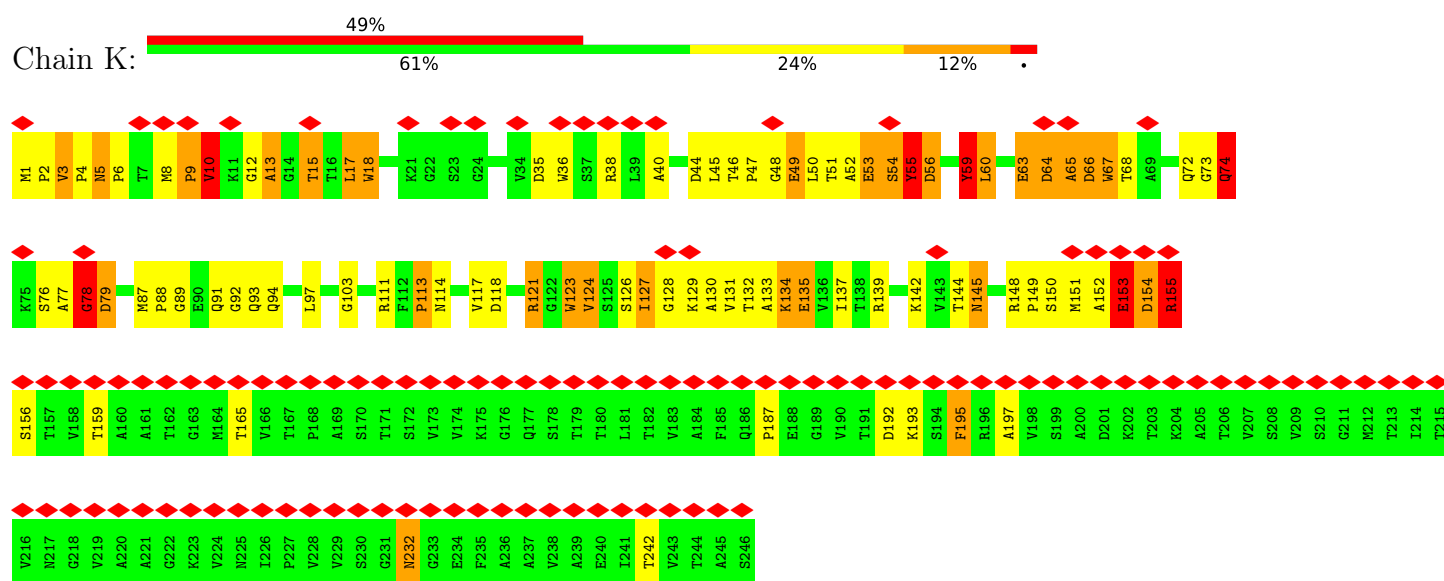
• Molecule 1: Tail tube protein



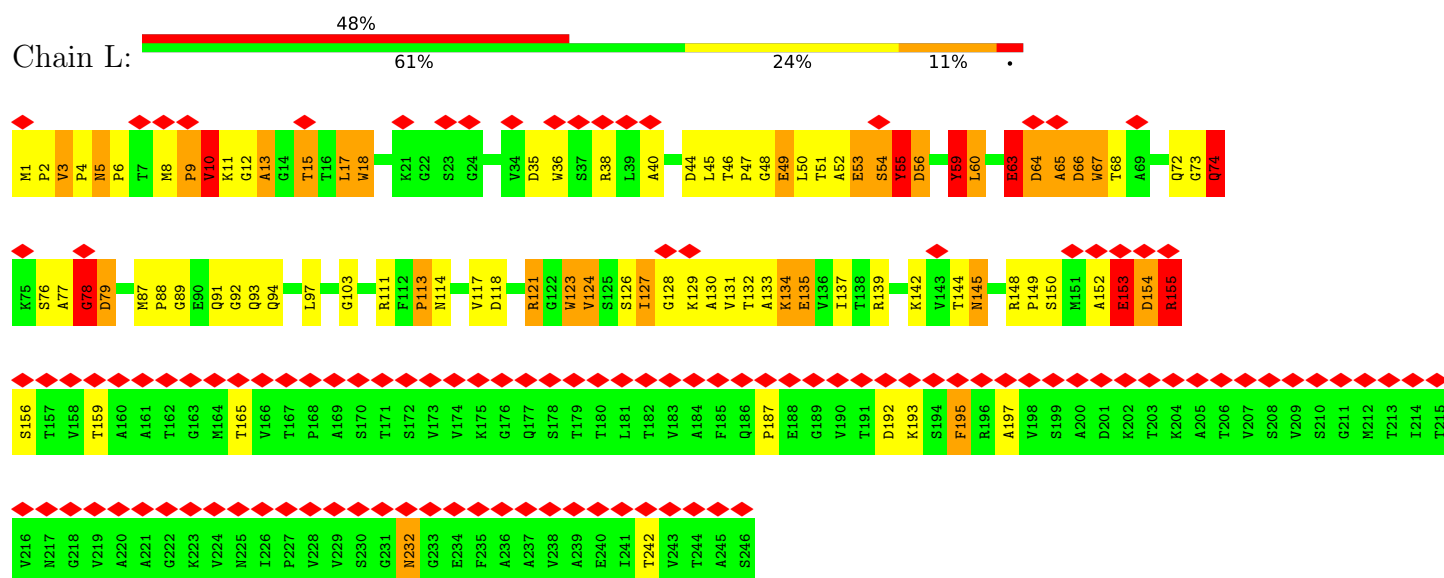
• Molecule 1: Tail tube protein



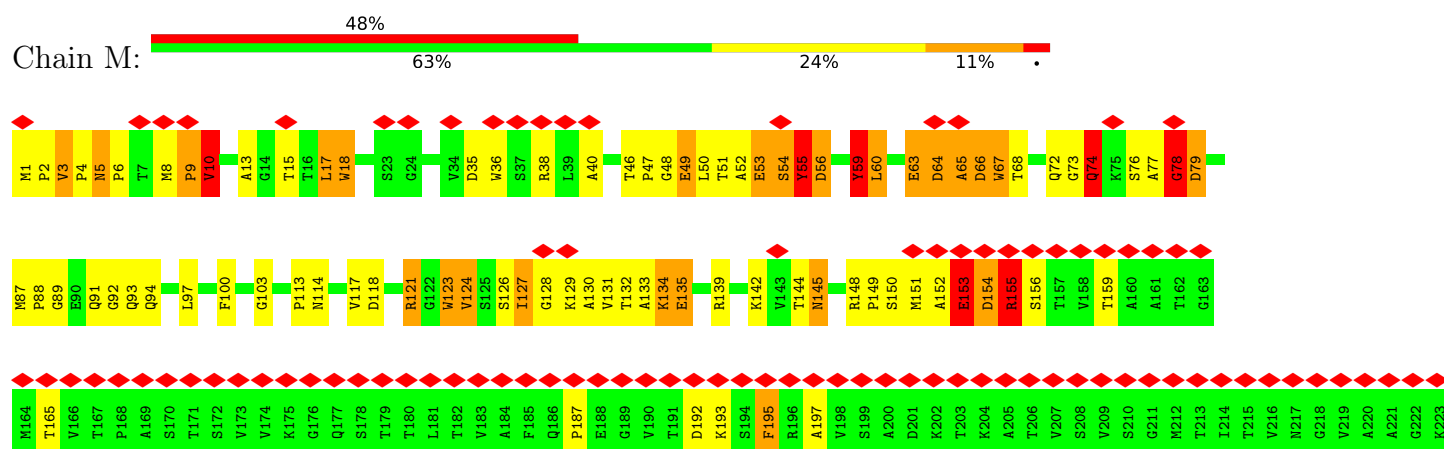
• Molecule 1: Tail tube protein

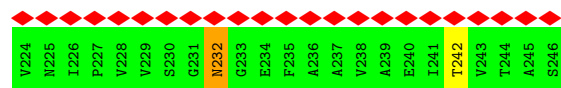


• Molecule 1: Tail tube protein

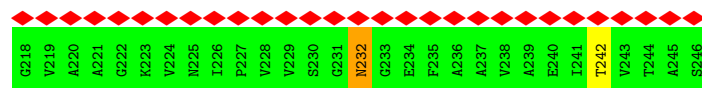
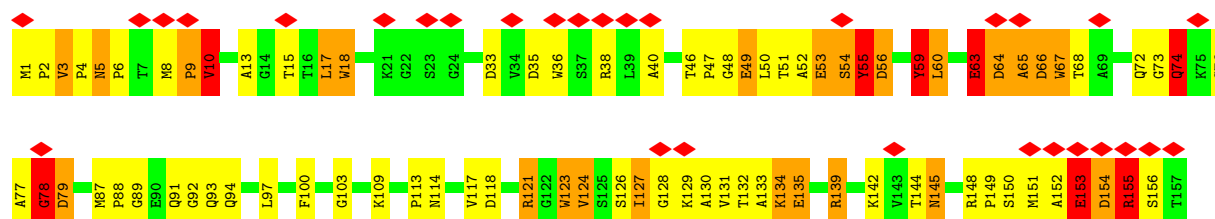


• Molecule 1: Tail tube protein

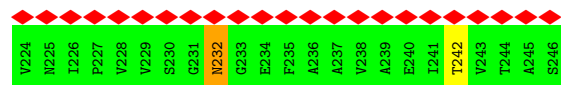
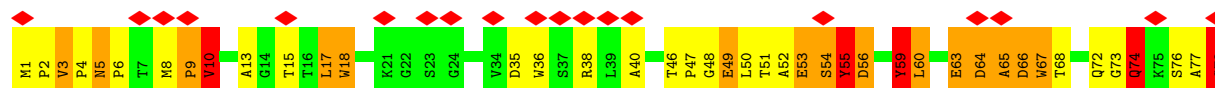




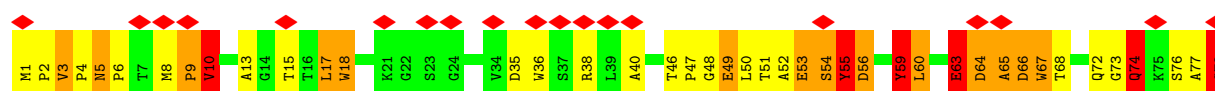
• Molecule 1: Tail tube protein

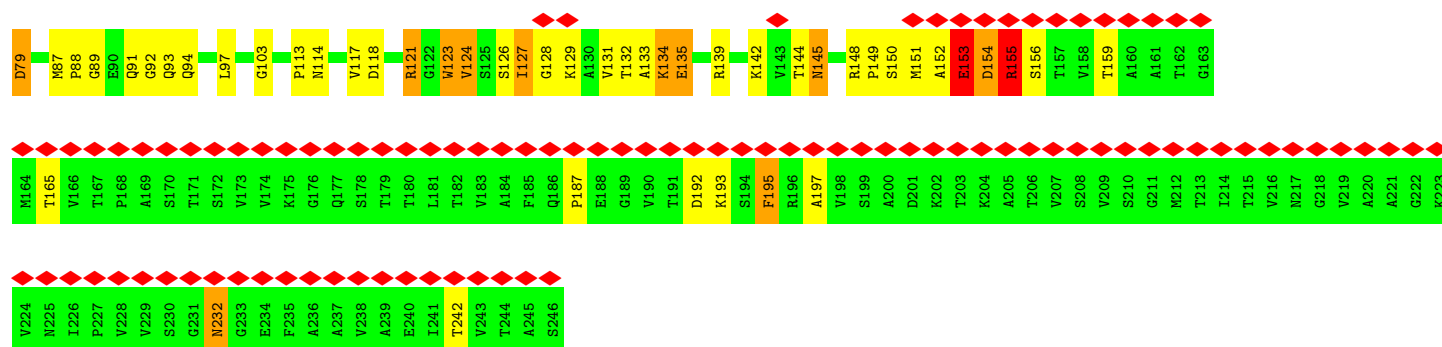


• Molecule 1: Tail tube protein

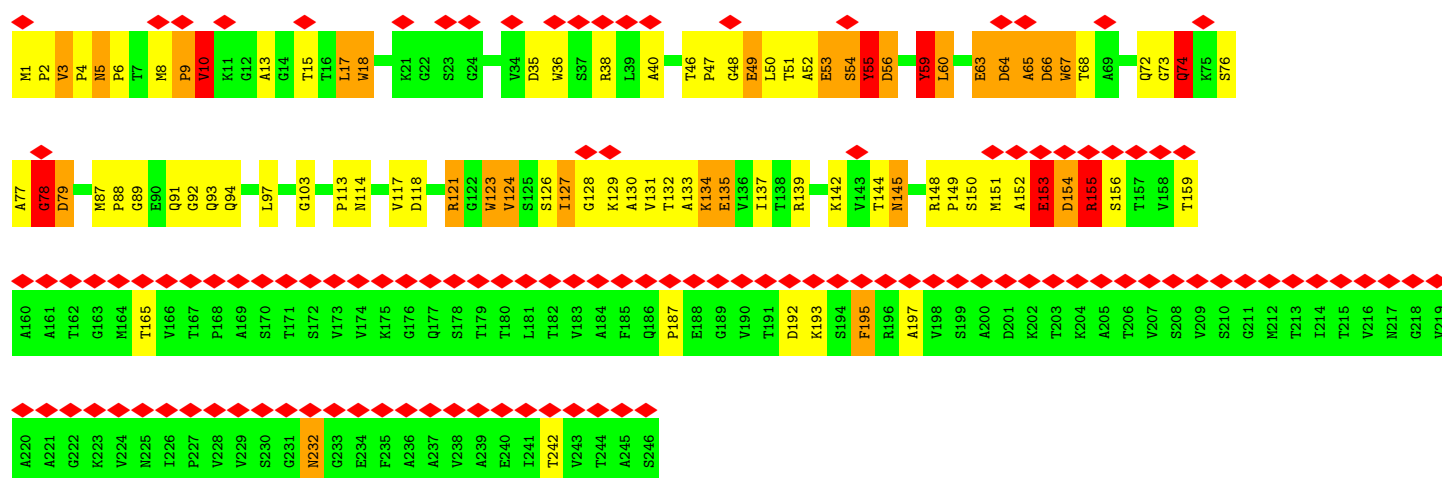


• Molecule 1: Tail tube protein

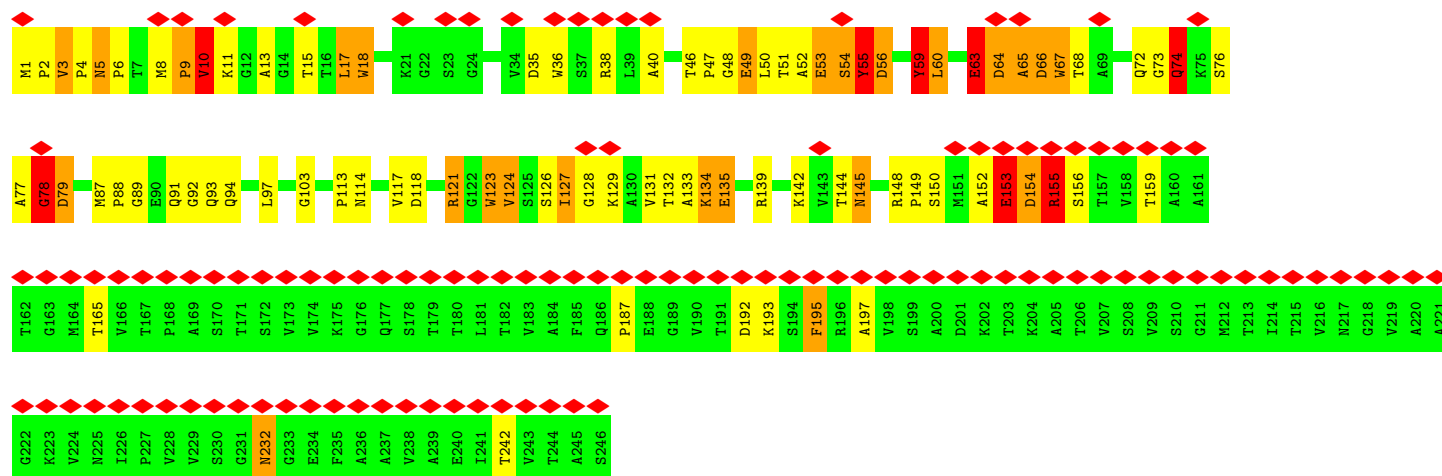




• Molecule 1: Tail tube protein



• Molecule 1: Tail tube protein



4 Experimental information

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=17.5°, rise=42.8 Å, axial sym=C6	Depositor
Number of segments used	5543	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 ($e^-/\text{Å}^2$)	20	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.127	Depositor
Minimum map value	-0.031	Depositor
Average map value	0.004	Depositor
Map value standard deviation	0.015	Depositor
Recommended contour level	0.05	Depositor
Map size (Å)	230.0, 230.0, 230.0	wwPDB
Map dimensions	200, 200, 200	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.15, 1.15, 1.15	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	0.86	0/1851	1.76	42/2527 (1.7%)
1	B	0.86	0/1851	1.76	42/2527 (1.7%)
1	C	0.87	0/1851	1.76	43/2527 (1.7%)
1	D	0.87	0/1851	1.76	42/2527 (1.7%)
1	E	0.86	0/1851	1.76	45/2527 (1.8%)
1	F	0.87	0/1851	1.76	42/2527 (1.7%)
1	G	0.87	0/1851	1.76	42/2527 (1.7%)
1	H	0.87	0/1851	1.76	42/2527 (1.7%)
1	I	0.87	0/1851	1.76	42/2527 (1.7%)
1	J	0.86	0/1851	1.76	42/2527 (1.7%)
1	K	0.86	0/1851	1.76	44/2527 (1.7%)
1	L	0.87	0/1851	1.76	42/2527 (1.7%)
1	M	0.86	0/1851	1.76	45/2527 (1.8%)
1	N	0.87	0/1851	1.76	42/2527 (1.7%)
1	O	0.86	0/1851	1.76	42/2527 (1.7%)
1	P	0.86	0/1851	1.76	42/2527 (1.7%)
1	Q	0.86	0/1851	1.76	42/2527 (1.7%)
1	R	0.86	0/1851	1.76	44/2527 (1.7%)
All	All	0.86	0/33318	1.76	767/45486 (1.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	3	12
1	B	3	12
1	C	3	12
1	D	3	12
1	E	3	12
1	F	3	12
1	G	3	12

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	H	3	12
1	I	3	12
1	J	3	12
1	K	3	12
1	L	3	12
1	M	3	12
1	N	3	12
1	O	3	12
1	P	3	12
1	Q	3	12
1	R	3	12
All	All	54	216

There are no bond length outliers.

All (767) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	I	60	LEU	CA-C-N	7.71	135.57	121.70
1	I	60	LEU	C-N-CA	7.71	135.57	121.70
1	F	60	LEU	CA-C-N	7.70	135.56	121.70
1	F	60	LEU	C-N-CA	7.70	135.56	121.70
1	Q	60	LEU	CA-C-N	7.69	135.54	121.70
1	Q	60	LEU	C-N-CA	7.69	135.54	121.70
1	B	60	LEU	CA-C-N	7.69	135.54	121.70
1	B	60	LEU	C-N-CA	7.69	135.54	121.70
1	K	60	LEU	CA-C-N	7.68	135.53	121.70
1	K	60	LEU	C-N-CA	7.68	135.53	121.70
1	P	60	LEU	CA-C-N	7.68	135.53	121.70
1	P	60	LEU	C-N-CA	7.68	135.53	121.70
1	R	60	LEU	CA-C-N	7.68	135.53	121.70
1	R	60	LEU	C-N-CA	7.68	135.53	121.70
1	A	60	LEU	CA-C-N	7.68	135.53	121.70
1	A	60	LEU	C-N-CA	7.68	135.53	121.70
1	G	60	LEU	CA-C-N	7.68	135.53	121.70
1	G	60	LEU	C-N-CA	7.68	135.53	121.70
1	N	60	LEU	CA-C-N	7.68	135.52	121.70
1	N	60	LEU	C-N-CA	7.68	135.52	121.70
1	O	60	LEU	CA-C-N	7.68	135.52	121.70
1	O	60	LEU	C-N-CA	7.68	135.52	121.70
1	J	60	LEU	CA-C-N	7.68	135.52	121.70
1	J	60	LEU	C-N-CA	7.68	135.52	121.70
1	H	60	LEU	CA-C-N	7.67	135.51	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	60	LEU	C-N-CA	7.67	135.51	121.70
1	D	60	LEU	CA-C-N	7.67	135.51	121.70
1	D	60	LEU	C-N-CA	7.67	135.51	121.70
1	E	60	LEU	CA-C-N	7.67	135.50	121.70
1	E	60	LEU	C-N-CA	7.67	135.50	121.70
1	L	60	LEU	CA-C-N	7.66	135.49	121.70
1	L	60	LEU	C-N-CA	7.66	135.49	121.70
1	C	60	LEU	CA-C-N	7.66	135.49	121.70
1	C	60	LEU	C-N-CA	7.66	135.49	121.70
1	M	60	LEU	CA-C-N	7.66	135.48	121.70
1	M	60	LEU	C-N-CA	7.66	135.48	121.70
1	C	79	ASP	N-CA-C	7.61	121.91	110.64
1	N	79	ASP	N-CA-C	7.61	121.90	110.64
1	O	79	ASP	N-CA-C	7.61	121.90	110.64
1	B	79	ASP	N-CA-C	7.60	121.89	110.64
1	M	79	ASP	N-CA-C	7.60	121.89	110.64
1	D	79	ASP	N-CA-C	7.59	121.87	110.64
1	J	79	ASP	N-CA-C	7.59	121.87	110.64
1	G	79	ASP	N-CA-C	7.59	121.87	110.64
1	I	79	ASP	N-CA-C	7.59	121.87	110.64
1	A	79	ASP	N-CA-C	7.59	121.87	110.64
1	P	79	ASP	N-CA-C	7.59	121.87	110.64
1	F	79	ASP	N-CA-C	7.58	121.86	110.64
1	H	79	ASP	N-CA-C	7.57	121.84	110.64
1	K	79	ASP	N-CA-C	7.57	121.84	110.64
1	E	79	ASP	N-CA-C	7.57	121.84	110.64
1	R	79	ASP	N-CA-C	7.57	121.84	110.64
1	Q	79	ASP	N-CA-C	7.57	121.84	110.64
1	L	79	ASP	N-CA-C	7.55	121.82	110.64
1	Q	17	LEU	CA-C-N	7.33	134.89	121.70
1	Q	17	LEU	C-N-CA	7.33	134.89	121.70
1	O	17	LEU	CA-C-N	7.32	134.87	121.70
1	O	17	LEU	C-N-CA	7.32	134.87	121.70
1	M	17	LEU	CA-C-N	7.31	134.86	121.70
1	M	17	LEU	C-N-CA	7.31	134.86	121.70
1	L	17	LEU	CA-C-N	7.31	134.86	121.70
1	L	17	LEU	C-N-CA	7.31	134.86	121.70
1	K	17	LEU	CA-C-N	7.31	134.86	121.70
1	K	17	LEU	C-N-CA	7.31	134.86	121.70
1	D	17	LEU	CA-C-N	7.31	134.85	121.70
1	D	17	LEU	C-N-CA	7.31	134.85	121.70
1	H	17	LEU	CA-C-N	7.31	134.85	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	17	LEU	C-N-CA	7.31	134.85	121.70
1	A	17	LEU	CA-C-N	7.30	134.84	121.70
1	A	17	LEU	C-N-CA	7.30	134.84	121.70
1	P	17	LEU	CA-C-N	7.30	134.84	121.70
1	P	17	LEU	C-N-CA	7.30	134.84	121.70
1	G	17	LEU	CA-C-N	7.29	134.83	121.70
1	G	17	LEU	C-N-CA	7.29	134.83	121.70
1	C	17	LEU	CA-C-N	7.29	134.83	121.70
1	C	17	LEU	C-N-CA	7.29	134.83	121.70
1	E	17	LEU	CA-C-N	7.29	134.83	121.70
1	E	17	LEU	C-N-CA	7.29	134.83	121.70
1	I	17	LEU	CA-C-N	7.29	134.83	121.70
1	I	17	LEU	C-N-CA	7.29	134.83	121.70
1	N	17	LEU	CA-C-N	7.29	134.83	121.70
1	N	17	LEU	C-N-CA	7.29	134.83	121.70
1	F	17	LEU	CA-C-N	7.29	134.82	121.70
1	F	17	LEU	C-N-CA	7.29	134.82	121.70
1	R	17	LEU	CA-C-N	7.29	134.82	121.70
1	R	17	LEU	C-N-CA	7.29	134.82	121.70
1	J	17	LEU	CA-C-N	7.28	134.81	121.70
1	J	17	LEU	C-N-CA	7.28	134.81	121.70
1	B	17	LEU	CA-C-N	7.28	134.79	121.70
1	B	17	LEU	C-N-CA	7.28	134.79	121.70
1	N	153	GLU	CA-C-N	7.06	134.40	121.70
1	N	153	GLU	C-N-CA	7.06	134.40	121.70
1	G	153	GLU	CA-C-N	7.05	134.40	121.70
1	G	153	GLU	C-N-CA	7.05	134.40	121.70
1	I	153	GLU	CA-C-N	7.05	134.38	121.70
1	I	153	GLU	C-N-CA	7.05	134.38	121.70
1	Q	153	GLU	CA-C-N	7.04	134.37	121.70
1	Q	153	GLU	C-N-CA	7.04	134.37	121.70
1	D	153	GLU	CA-C-N	7.04	134.37	121.70
1	D	153	GLU	C-N-CA	7.04	134.37	121.70
1	R	153	GLU	CA-C-N	7.04	134.37	121.70
1	R	153	GLU	C-N-CA	7.04	134.37	121.70
1	L	153	GLU	CA-C-N	7.03	134.36	121.70
1	L	153	GLU	C-N-CA	7.03	134.36	121.70
1	A	153	GLU	CA-C-N	7.03	134.36	121.70
1	A	153	GLU	C-N-CA	7.03	134.36	121.70
1	O	153	GLU	CA-C-N	7.03	134.35	121.70
1	O	153	GLU	C-N-CA	7.03	134.35	121.70
1	B	153	GLU	CA-C-N	7.03	134.35	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	153	GLU	C-N-CA	7.03	134.35	121.70
1	H	153	GLU	CA-C-N	7.02	134.34	121.70
1	H	153	GLU	C-N-CA	7.02	134.34	121.70
1	J	153	GLU	CA-C-N	7.02	134.34	121.70
1	J	153	GLU	C-N-CA	7.02	134.34	121.70
1	K	153	GLU	CA-C-N	7.02	134.34	121.70
1	K	153	GLU	C-N-CA	7.02	134.34	121.70
1	E	153	GLU	CA-C-N	7.02	134.34	121.70
1	E	153	GLU	C-N-CA	7.02	134.34	121.70
1	C	153	GLU	CA-C-N	7.02	134.34	121.70
1	C	153	GLU	C-N-CA	7.02	134.34	121.70
1	M	153	GLU	CA-C-N	7.02	134.33	121.70
1	M	153	GLU	C-N-CA	7.02	134.33	121.70
1	P	153	GLU	CA-C-N	7.01	134.32	121.70
1	P	153	GLU	C-N-CA	7.01	134.32	121.70
1	F	153	GLU	CA-C-N	6.99	134.29	121.70
1	F	153	GLU	C-N-CA	6.99	134.29	121.70
1	L	232	ASN	CA-CB-CG	6.92	119.52	112.60
1	K	232	ASN	CA-CB-CG	6.92	119.52	112.60
1	O	232	ASN	CA-CB-CG	6.92	119.52	112.60
1	D	232	ASN	CA-CB-CG	6.91	119.51	112.60
1	E	232	ASN	CA-CB-CG	6.90	119.50	112.60
1	M	232	ASN	CA-CB-CG	6.90	119.50	112.60
1	B	232	ASN	CA-CB-CG	6.89	119.49	112.60
1	Q	232	ASN	CA-CB-CG	6.89	119.50	112.60
1	R	232	ASN	CA-CB-CG	6.89	119.49	112.60
1	A	232	ASN	CA-CB-CG	6.89	119.49	112.60
1	G	232	ASN	CA-CB-CG	6.89	119.49	112.60
1	P	232	ASN	CA-CB-CG	6.89	119.49	112.60
1	C	232	ASN	CA-CB-CG	6.88	119.48	112.60
1	F	232	ASN	CA-CB-CG	6.88	119.48	112.60
1	H	232	ASN	CA-CB-CG	6.87	119.47	112.60
1	N	232	ASN	CA-CB-CG	6.87	119.47	112.60
1	J	232	ASN	CA-CB-CG	6.86	119.46	112.60
1	I	232	ASN	CA-CB-CG	6.85	119.45	112.60
1	L	60	LEU	O-C-N	-6.79	116.13	123.26
1	H	60	LEU	O-C-N	-6.76	116.16	123.26
1	K	60	LEU	O-C-N	-6.76	116.16	123.26
1	D	60	LEU	O-C-N	-6.76	116.17	123.26
1	E	60	LEU	O-C-N	-6.75	116.17	123.26
1	M	60	LEU	O-C-N	-6.75	116.17	123.26
1	N	60	LEU	O-C-N	-6.75	116.17	123.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	60	LEU	O-C-N	-6.75	116.17	123.26
1	O	60	LEU	O-C-N	-6.74	116.18	123.26
1	R	60	LEU	O-C-N	-6.74	116.18	123.26
1	A	60	LEU	O-C-N	-6.74	116.18	123.26
1	G	60	LEU	O-C-N	-6.74	116.18	123.26
1	J	60	LEU	O-C-N	-6.73	116.19	123.26
1	B	60	LEU	O-C-N	-6.73	116.19	123.26
1	P	60	LEU	O-C-N	-6.73	116.20	123.26
1	Q	60	LEU	O-C-N	-6.72	116.20	123.26
1	F	60	LEU	O-C-N	-6.72	116.20	123.26
1	L	3	VAL	O-C-N	-6.71	116.12	120.42
1	I	60	LEU	O-C-N	-6.70	116.23	123.26
1	Q	3	VAL	O-C-N	-6.70	116.14	120.42
1	C	195	PHE	N-CA-C	6.68	120.06	110.24
1	D	195	PHE	N-CA-C	6.67	120.05	110.24
1	R	195	PHE	N-CA-C	6.67	120.05	110.24
1	O	144	THR	N-CA-C	6.67	119.31	109.24
1	D	3	VAL	O-C-N	-6.66	116.16	120.42
1	Q	195	PHE	N-CA-C	6.66	120.03	110.24
1	K	3	VAL	O-C-N	-6.66	116.16	120.42
1	B	3	VAL	O-C-N	-6.66	116.16	120.42
1	C	144	THR	N-CA-C	6.66	119.29	109.24
1	G	3	VAL	O-C-N	-6.66	116.16	120.42
1	G	144	THR	N-CA-C	6.66	119.29	109.24
1	R	3	VAL	O-C-N	-6.66	116.16	120.42
1	M	3	VAL	O-C-N	-6.65	116.16	120.42
1	J	144	THR	N-CA-C	6.65	119.29	109.24
1	N	3	VAL	O-C-N	-6.65	116.16	120.42
1	N	195	PHE	N-CA-C	6.65	120.02	110.24
1	B	144	THR	N-CA-C	6.65	119.28	109.24
1	E	3	VAL	O-C-N	-6.65	116.16	120.42
1	K	195	PHE	N-CA-C	6.65	120.02	110.24
1	R	144	THR	N-CA-C	6.65	119.28	109.24
1	A	195	PHE	N-CA-C	6.65	120.01	110.24
1	P	3	VAL	O-C-N	-6.65	116.17	120.42
1	F	195	PHE	N-CA-C	6.64	120.00	110.24
1	K	144	THR	N-CA-C	6.64	119.27	109.24
1	N	144	THR	N-CA-C	6.64	119.27	109.24
1	A	144	THR	N-CA-C	6.64	119.27	109.24
1	H	195	PHE	N-CA-C	6.64	120.00	110.24
1	M	144	THR	N-CA-C	6.64	119.27	109.24
1	O	3	VAL	O-C-N	-6.64	116.17	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	144	THR	N-CA-C	6.64	119.26	109.24
1	D	144	THR	N-CA-C	6.64	119.26	109.24
1	I	144	THR	N-CA-C	6.64	119.26	109.24
1	J	195	PHE	N-CA-C	6.64	120.00	110.24
1	A	3	VAL	O-C-N	-6.63	116.17	120.42
1	H	144	THR	N-CA-C	6.63	119.26	109.24
1	O	195	PHE	N-CA-C	6.63	119.99	110.24
1	P	195	PHE	N-CA-C	6.63	119.99	110.24
1	C	3	VAL	O-C-N	-6.63	116.18	120.42
1	H	3	VAL	O-C-N	-6.63	116.18	120.42
1	I	3	VAL	O-C-N	-6.63	116.18	120.42
1	B	195	PHE	N-CA-C	6.63	119.98	110.24
1	M	195	PHE	N-CA-C	6.63	119.98	110.24
1	E	144	THR	N-CA-C	6.62	119.24	109.24
1	L	144	THR	N-CA-C	6.62	119.24	109.24
1	P	144	THR	N-CA-C	6.62	119.24	109.24
1	F	3	VAL	O-C-N	-6.62	116.19	120.42
1	F	144	THR	N-CA-C	6.62	119.23	109.24
1	G	195	PHE	N-CA-C	6.62	119.96	110.24
1	E	195	PHE	N-CA-C	6.61	119.96	110.24
1	I	195	PHE	N-CA-C	6.61	119.96	110.24
1	L	195	PHE	N-CA-C	6.61	119.95	110.24
1	J	3	VAL	O-C-N	-6.59	116.20	120.42
1	P	64	ASP	CA-C-N	6.54	133.46	121.70
1	P	64	ASP	C-N-CA	6.54	133.46	121.70
1	D	64	ASP	CA-C-N	6.53	133.45	121.70
1	D	64	ASP	C-N-CA	6.53	133.45	121.70
1	G	64	ASP	CA-C-N	6.53	133.45	121.70
1	G	64	ASP	C-N-CA	6.53	133.45	121.70
1	I	64	ASP	CA-C-N	6.53	133.45	121.70
1	I	64	ASP	C-N-CA	6.53	133.45	121.70
1	Q	64	ASP	CA-C-N	6.53	133.45	121.70
1	Q	64	ASP	C-N-CA	6.53	133.45	121.70
1	B	64	ASP	CA-C-N	6.52	133.44	121.70
1	B	64	ASP	C-N-CA	6.52	133.44	121.70
1	J	64	ASP	CA-C-N	6.52	133.44	121.70
1	J	64	ASP	C-N-CA	6.52	133.44	121.70
1	A	64	ASP	CA-C-N	6.52	133.44	121.70
1	A	64	ASP	C-N-CA	6.52	133.44	121.70
1	G	156	SER	N-CA-C	6.52	118.94	110.53
1	C	64	ASP	CA-C-N	6.51	133.43	121.70
1	C	64	ASP	C-N-CA	6.51	133.43	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	64	ASP	CA-C-N	6.51	133.43	121.70
1	F	64	ASP	C-N-CA	6.51	133.43	121.70
1	R	64	ASP	CA-C-N	6.51	133.42	121.70
1	R	64	ASP	C-N-CA	6.51	133.42	121.70
1	H	64	ASP	CA-C-N	6.51	133.42	121.70
1	H	64	ASP	C-N-CA	6.51	133.42	121.70
1	L	64	ASP	CA-C-N	6.51	133.42	121.70
1	L	64	ASP	C-N-CA	6.51	133.42	121.70
1	M	64	ASP	CA-C-N	6.51	133.42	121.70
1	M	64	ASP	C-N-CA	6.51	133.42	121.70
1	N	64	ASP	CA-C-N	6.51	133.41	121.70
1	N	64	ASP	C-N-CA	6.51	133.41	121.70
1	O	64	ASP	CA-C-N	6.50	133.40	121.70
1	O	64	ASP	C-N-CA	6.50	133.40	121.70
1	C	156	SER	N-CA-C	6.50	118.91	110.53
1	K	64	ASP	CA-C-N	6.50	133.40	121.70
1	K	64	ASP	C-N-CA	6.50	133.40	121.70
1	E	64	ASP	CA-C-N	6.50	133.39	121.70
1	E	64	ASP	C-N-CA	6.50	133.39	121.70
1	O	156	SER	N-CA-C	6.49	118.91	110.53
1	L	156	SER	N-CA-C	6.49	118.90	110.53
1	J	156	SER	N-CA-C	6.49	118.90	110.53
1	A	156	SER	N-CA-C	6.49	118.90	110.53
1	N	156	SER	N-CA-C	6.49	118.90	110.53
1	H	156	SER	N-CA-C	6.48	118.89	110.53
1	B	156	SER	N-CA-C	6.48	118.89	110.53
1	M	156	SER	N-CA-C	6.48	118.89	110.53
1	I	156	SER	N-CA-C	6.48	118.88	110.53
1	K	156	SER	N-CA-C	6.48	118.88	110.53
1	R	156	SER	N-CA-C	6.48	118.88	110.53
1	F	156	SER	N-CA-C	6.47	118.88	110.53
1	E	156	SER	N-CA-C	6.47	118.87	110.53
1	Q	156	SER	N-CA-C	6.46	118.87	110.53
1	D	156	SER	N-CA-C	6.45	118.85	110.53
1	P	156	SER	N-CA-C	6.44	118.84	110.53
1	N	118	ASP	N-CA-C	6.28	118.41	110.24
1	O	118	ASP	N-CA-C	6.27	118.40	110.24
1	K	118	ASP	N-CA-C	6.27	118.39	110.24
1	F	118	ASP	N-CA-C	6.27	118.39	110.24
1	G	118	ASP	N-CA-C	6.27	118.39	110.24
1	H	118	ASP	N-CA-C	6.26	118.38	110.24
1	E	118	ASP	N-CA-C	6.26	118.38	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	118	ASP	N-CA-C	6.26	118.38	110.24
1	M	118	ASP	N-CA-C	6.26	118.37	110.24
1	Q	118	ASP	N-CA-C	6.25	118.37	110.24
1	B	118	ASP	N-CA-C	6.25	118.37	110.24
1	I	118	ASP	N-CA-C	6.25	118.37	110.24
1	P	118	ASP	N-CA-C	6.25	118.37	110.24
1	J	118	ASP	N-CA-C	6.25	118.37	110.24
1	A	118	ASP	N-CA-C	6.25	118.36	110.24
1	L	118	ASP	N-CA-C	6.25	118.36	110.24
1	D	118	ASP	N-CA-C	6.24	118.35	110.24
1	R	118	ASP	N-CA-C	6.20	118.30	110.24
1	C	65	ALA	CA-C-N	6.15	130.97	121.19
1	C	65	ALA	C-N-CA	6.15	130.97	121.19
1	K	64	ASP	O-C-N	-6.15	114.41	122.59
1	G	65	ALA	CA-C-N	6.14	130.96	121.19
1	G	65	ALA	C-N-CA	6.14	130.96	121.19
1	H	65	ALA	CA-C-N	6.14	130.95	121.19
1	H	65	ALA	C-N-CA	6.14	130.95	121.19
1	E	65	ALA	CA-C-N	6.14	130.95	121.19
1	E	65	ALA	C-N-CA	6.14	130.95	121.19
1	E	64	ASP	O-C-N	-6.13	114.44	122.59
1	B	65	ALA	CA-C-N	6.13	130.93	121.19
1	B	65	ALA	C-N-CA	6.13	130.93	121.19
1	Q	65	ALA	CA-C-N	6.12	130.93	121.19
1	Q	65	ALA	C-N-CA	6.12	130.93	121.19
1	A	65	ALA	CA-C-N	6.12	130.93	121.19
1	A	65	ALA	C-N-CA	6.12	130.93	121.19
1	I	65	ALA	CA-C-N	6.12	130.93	121.19
1	I	65	ALA	C-N-CA	6.12	130.93	121.19
1	R	65	ALA	CA-C-N	6.12	130.93	121.19
1	R	65	ALA	C-N-CA	6.12	130.93	121.19
1	O	64	ASP	O-C-N	-6.12	114.45	122.59
1	D	64	ASP	O-C-N	-6.12	114.45	122.59
1	K	65	ALA	CA-C-N	6.12	130.92	121.19
1	K	65	ALA	C-N-CA	6.12	130.92	121.19
1	M	65	ALA	CA-C-N	6.12	130.92	121.19
1	M	65	ALA	C-N-CA	6.12	130.92	121.19
1	D	65	ALA	CA-C-N	6.12	130.91	121.19
1	D	65	ALA	C-N-CA	6.12	130.91	121.19
1	P	64	ASP	O-C-N	-6.12	114.45	122.59
1	M	64	ASP	O-C-N	-6.12	114.46	122.59
1	N	64	ASP	O-C-N	-6.12	114.46	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	64	ASP	O-C-N	-6.11	114.46	122.59
1	B	64	ASP	O-C-N	-6.11	114.46	122.59
1	H	64	ASP	O-C-N	-6.11	114.47	122.59
1	N	65	ALA	CA-C-N	6.11	130.90	121.19
1	N	65	ALA	C-N-CA	6.11	130.90	121.19
1	F	64	ASP	O-C-N	-6.11	114.47	122.59
1	P	65	ALA	CA-C-N	6.11	130.90	121.19
1	P	65	ALA	C-N-CA	6.11	130.90	121.19
1	R	64	ASP	O-C-N	-6.11	114.47	122.59
1	J	65	ALA	CA-C-N	6.10	130.90	121.19
1	J	65	ALA	C-N-CA	6.10	130.90	121.19
1	C	64	ASP	O-C-N	-6.10	114.47	122.59
1	I	64	ASP	O-C-N	-6.10	114.47	122.59
1	L	64	ASP	O-C-N	-6.10	114.47	122.59
1	L	65	ALA	CA-C-N	6.09	130.88	121.19
1	L	65	ALA	C-N-CA	6.09	130.88	121.19
1	Q	64	ASP	O-C-N	-6.09	114.49	122.59
1	G	64	ASP	O-C-N	-6.09	114.49	122.59
1	J	64	ASP	O-C-N	-6.09	114.49	122.59
1	O	65	ALA	CA-C-N	6.09	130.87	121.19
1	O	65	ALA	C-N-CA	6.09	130.87	121.19
1	F	65	ALA	CA-C-N	6.08	130.86	121.19
1	F	65	ALA	C-N-CA	6.08	130.86	121.19
1	B	113	PRO	N-CA-C	-5.98	107.80	114.92
1	C	113	PRO	N-CA-C	-5.98	107.80	114.92
1	N	113	PRO	N-CA-C	-5.97	107.82	114.92
1	I	113	PRO	N-CA-C	-5.96	107.83	114.92
1	M	113	PRO	N-CA-C	-5.96	107.83	114.92
1	D	113	PRO	N-CA-C	-5.95	107.83	114.92
1	P	113	PRO	N-CA-C	-5.95	107.84	114.92
1	Q	113	PRO	N-CA-C	-5.95	107.84	114.92
1	A	113	PRO	N-CA-C	-5.94	107.85	114.92
1	F	113	PRO	N-CA-C	-5.94	107.85	114.92
1	H	113	PRO	N-CA-C	-5.93	107.86	114.92
1	R	113	PRO	N-CA-C	-5.93	107.86	114.92
1	K	113	PRO	N-CA-C	-5.93	107.87	114.92
1	K	144	THR	CA-C-N	5.93	132.86	121.54
1	K	144	THR	C-N-CA	5.93	132.86	121.54
1	P	144	THR	CA-C-N	5.93	132.86	121.54
1	P	144	THR	C-N-CA	5.93	132.86	121.54
1	D	144	THR	CA-C-N	5.92	132.85	121.54
1	D	144	THR	C-N-CA	5.92	132.85	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	113	PRO	N-CA-C	-5.92	107.87	114.92
1	L	113	PRO	N-CA-C	-5.92	107.87	114.92
1	J	113	PRO	N-CA-C	-5.92	107.87	114.92
1	J	121	ARG	N-CA-C	-5.92	100.05	109.23
1	F	144	THR	CA-C-N	5.92	132.85	121.54
1	F	144	THR	C-N-CA	5.92	132.85	121.54
1	N	121	ARG	N-CA-C	-5.92	100.06	109.23
1	C	144	THR	CA-C-N	5.92	132.84	121.54
1	C	144	THR	C-N-CA	5.92	132.84	121.54
1	M	144	THR	CA-C-N	5.92	132.84	121.54
1	M	144	THR	C-N-CA	5.92	132.84	121.54
1	O	144	THR	CA-C-N	5.92	132.84	121.54
1	O	144	THR	C-N-CA	5.92	132.84	121.54
1	G	121	ARG	N-CA-C	-5.91	100.06	109.23
1	L	144	THR	CA-C-N	5.91	132.83	121.54
1	L	144	THR	C-N-CA	5.91	132.83	121.54
1	I	144	THR	CA-C-N	5.91	132.83	121.54
1	I	144	THR	C-N-CA	5.91	132.83	121.54
1	K	121	ARG	N-CA-C	-5.91	100.07	109.23
1	G	113	PRO	N-CA-C	-5.91	107.89	114.92
1	Q	144	THR	CA-C-N	5.91	132.82	121.54
1	Q	144	THR	C-N-CA	5.91	132.82	121.54
1	B	144	THR	CA-C-N	5.91	132.82	121.54
1	B	144	THR	C-N-CA	5.91	132.82	121.54
1	E	113	PRO	N-CA-C	-5.91	107.89	114.92
1	A	144	THR	CA-C-N	5.91	132.82	121.54
1	A	144	THR	C-N-CA	5.91	132.82	121.54
1	D	121	ARG	N-CA-C	-5.91	100.08	109.23
1	F	121	ARG	N-CA-C	-5.91	100.08	109.23
1	R	121	ARG	N-CA-C	-5.91	100.08	109.23
1	G	144	THR	CA-C-N	5.90	132.81	121.54
1	G	144	THR	C-N-CA	5.90	132.81	121.54
1	M	121	ARG	N-CA-C	-5.90	100.08	109.23
1	E	144	THR	CA-C-N	5.90	132.81	121.54
1	E	144	THR	C-N-CA	5.90	132.81	121.54
1	J	144	THR	CA-C-N	5.90	132.81	121.54
1	J	144	THR	C-N-CA	5.90	132.81	121.54
1	A	121	ARG	N-CA-C	-5.90	100.09	109.23
1	H	144	THR	CA-C-N	5.90	132.81	121.54
1	H	144	THR	C-N-CA	5.90	132.81	121.54
1	Q	121	ARG	N-CA-C	-5.90	100.09	109.23
1	I	121	ARG	N-CA-C	-5.89	100.09	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	R	144	THR	CA-C-N	5.89	132.80	121.54
1	R	144	THR	C-N-CA	5.89	132.80	121.54
1	H	121	ARG	N-CA-C	-5.89	100.10	109.23
1	N	144	THR	CA-C-N	5.89	132.79	121.54
1	N	144	THR	C-N-CA	5.89	132.79	121.54
1	P	121	ARG	N-CA-C	-5.89	100.10	109.23
1	C	121	ARG	N-CA-C	-5.89	100.11	109.23
1	L	121	ARG	N-CA-C	-5.89	100.11	109.23
1	E	46	THR	O-C-N	-5.88	114.56	121.32
1	E	121	ARG	N-CA-C	-5.88	100.11	109.23
1	O	121	ARG	N-CA-C	-5.88	100.11	109.23
1	B	121	ARG	N-CA-C	-5.88	100.12	109.23
1	D	46	THR	O-C-N	-5.86	114.58	121.32
1	I	46	THR	O-C-N	-5.86	114.58	121.32
1	F	46	THR	O-C-N	-5.85	114.59	121.32
1	L	46	THR	O-C-N	-5.85	114.59	121.32
1	R	46	THR	O-C-N	-5.85	114.59	121.32
1	Q	46	THR	O-C-N	-5.85	114.59	121.32
1	J	46	THR	O-C-N	-5.85	114.60	121.32
1	G	46	THR	O-C-N	-5.84	114.60	121.32
1	A	46	THR	O-C-N	-5.83	114.61	121.32
1	K	46	THR	O-C-N	-5.83	114.62	121.32
1	B	46	THR	O-C-N	-5.82	114.63	121.32
1	C	46	THR	O-C-N	-5.82	114.63	121.32
1	M	46	THR	O-C-N	-5.81	114.64	121.32
1	P	46	THR	O-C-N	-5.81	114.64	121.32
1	O	46	THR	O-C-N	-5.81	114.64	121.32
1	H	46	THR	O-C-N	-5.81	114.64	121.32
1	N	46	THR	O-C-N	-5.80	114.65	121.32
1	K	134	LYS	CA-C-N	5.75	132.52	121.54
1	K	134	LYS	C-N-CA	5.75	132.52	121.54
1	R	134	LYS	CA-C-N	5.74	132.51	121.54
1	R	134	LYS	C-N-CA	5.74	132.51	121.54
1	F	197	ALA	N-CA-C	5.73	118.14	110.35
1	N	134	LYS	CA-C-N	5.73	132.48	121.54
1	N	134	LYS	C-N-CA	5.73	132.48	121.54
1	P	134	LYS	CA-C-N	5.73	132.48	121.54
1	P	134	LYS	C-N-CA	5.73	132.48	121.54
1	J	134	LYS	CA-C-N	5.72	132.47	121.54
1	J	134	LYS	C-N-CA	5.72	132.47	121.54
1	D	134	LYS	CA-C-N	5.72	132.46	121.54
1	D	134	LYS	C-N-CA	5.72	132.46	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	Q	134	LYS	CA-C-N	5.72	132.46	121.54
1	Q	134	LYS	C-N-CA	5.72	132.46	121.54
1	F	134	LYS	CA-C-N	5.72	132.46	121.54
1	F	134	LYS	C-N-CA	5.72	132.46	121.54
1	G	134	LYS	CA-C-N	5.72	132.46	121.54
1	G	134	LYS	C-N-CA	5.72	132.46	121.54
1	O	134	LYS	CA-C-N	5.72	132.46	121.54
1	O	134	LYS	C-N-CA	5.72	132.46	121.54
1	N	197	ALA	N-CA-C	5.71	118.12	110.35
1	A	134	LYS	CA-C-N	5.71	132.45	121.54
1	A	134	LYS	C-N-CA	5.71	132.45	121.54
1	B	134	LYS	CA-C-N	5.71	132.45	121.54
1	B	134	LYS	C-N-CA	5.71	132.45	121.54
1	E	197	ALA	N-CA-C	5.71	118.12	110.35
1	M	134	LYS	CA-C-N	5.71	132.45	121.54
1	M	134	LYS	C-N-CA	5.71	132.45	121.54
1	C	134	LYS	CA-C-N	5.71	132.44	121.54
1	C	134	LYS	C-N-CA	5.71	132.44	121.54
1	L	197	ALA	N-CA-C	5.71	118.11	110.35
1	L	134	LYS	CA-C-N	5.71	132.44	121.54
1	L	134	LYS	C-N-CA	5.71	132.44	121.54
1	P	197	ALA	N-CA-C	5.70	118.10	110.35
1	H	134	LYS	CA-C-N	5.70	132.43	121.54
1	H	134	LYS	C-N-CA	5.70	132.43	121.54
1	B	197	ALA	N-CA-C	5.70	118.10	110.35
1	R	60	LEU	N-CA-C	-5.70	100.28	108.60
1	O	197	ALA	N-CA-C	5.69	118.09	110.35
1	A	197	ALA	N-CA-C	5.69	118.09	110.35
1	I	134	LYS	CA-C-N	5.69	132.41	121.54
1	I	134	LYS	C-N-CA	5.69	132.41	121.54
1	M	197	ALA	N-CA-C	5.69	118.09	110.35
1	R	197	ALA	N-CA-C	5.69	118.09	110.35
1	G	60	LEU	N-CA-C	-5.69	100.29	108.60
1	I	60	LEU	N-CA-C	-5.69	100.29	108.60
1	J	197	ALA	N-CA-C	5.69	118.09	110.35
1	D	197	ALA	N-CA-C	5.69	118.09	110.35
1	E	134	LYS	CA-C-N	5.69	132.40	121.54
1	E	134	LYS	C-N-CA	5.69	132.40	121.54
1	G	197	ALA	N-CA-C	5.69	118.08	110.35
1	Q	197	ALA	N-CA-C	5.69	118.08	110.35
1	H	197	ALA	N-CA-C	5.68	118.08	110.35
1	N	60	LEU	N-CA-C	-5.68	100.30	108.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	60	LEU	N-CA-C	-5.68	100.30	108.60
1	B	60	LEU	N-CA-C	-5.68	100.31	108.60
1	C	197	ALA	N-CA-C	5.68	118.08	110.35
1	F	60	LEU	N-CA-C	-5.68	100.31	108.60
1	K	197	ALA	N-CA-C	5.68	118.07	110.35
1	I	197	ALA	N-CA-C	5.68	118.07	110.35
1	J	60	LEU	N-CA-C	-5.68	100.31	108.60
1	A	60	LEU	N-CA-C	-5.67	100.32	108.60
1	C	60	LEU	N-CA-C	-5.67	100.33	108.60
1	K	60	LEU	N-CA-C	-5.67	100.33	108.60
1	L	60	LEU	N-CA-C	-5.67	100.33	108.60
1	H	60	LEU	N-CA-C	-5.66	100.33	108.60
1	M	60	LEU	N-CA-C	-5.66	100.33	108.60
1	E	60	LEU	N-CA-C	-5.66	100.34	108.60
1	P	60	LEU	N-CA-C	-5.65	100.35	108.60
1	D	60	LEU	N-CA-C	-5.65	100.36	108.60
1	Q	60	LEU	N-CA-C	-5.65	100.36	108.60
1	G	154	ASP	CA-C-N	5.59	131.77	121.70
1	G	154	ASP	C-N-CA	5.59	131.77	121.70
1	L	154	ASP	CA-C-N	5.59	131.77	121.70
1	L	154	ASP	C-N-CA	5.59	131.77	121.70
1	N	154	ASP	CA-C-N	5.59	131.77	121.70
1	N	154	ASP	C-N-CA	5.59	131.77	121.70
1	E	154	ASP	CA-C-N	5.59	131.77	121.70
1	E	154	ASP	C-N-CA	5.59	131.77	121.70
1	J	154	ASP	CA-C-N	5.59	131.76	121.70
1	J	154	ASP	C-N-CA	5.59	131.76	121.70
1	K	154	ASP	CA-C-N	5.58	131.75	121.70
1	K	154	ASP	C-N-CA	5.58	131.75	121.70
1	C	154	ASP	CA-C-N	5.58	131.74	121.70
1	C	154	ASP	C-N-CA	5.58	131.74	121.70
1	P	154	ASP	CA-C-N	5.58	131.74	121.70
1	P	154	ASP	C-N-CA	5.58	131.74	121.70
1	B	154	ASP	CA-C-N	5.57	131.73	121.70
1	B	154	ASP	C-N-CA	5.57	131.73	121.70
1	M	154	ASP	CA-C-N	5.57	131.73	121.70
1	M	154	ASP	C-N-CA	5.57	131.73	121.70
1	Q	154	ASP	CA-C-N	5.57	131.73	121.70
1	Q	154	ASP	C-N-CA	5.57	131.73	121.70
1	A	154	ASP	CA-C-N	5.57	131.73	121.70
1	A	154	ASP	C-N-CA	5.57	131.73	121.70
1	H	154	ASP	CA-C-N	5.57	131.72	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	154	ASP	C-N-CA	5.57	131.72	121.70
1	O	154	ASP	CA-C-N	5.57	131.72	121.70
1	O	154	ASP	C-N-CA	5.57	131.72	121.70
1	D	154	ASP	O-C-N	-5.57	114.09	123.00
1	I	154	ASP	CA-C-N	5.56	131.71	121.70
1	I	154	ASP	C-N-CA	5.56	131.71	121.70
1	F	154	ASP	CA-C-N	5.55	131.69	121.70
1	F	154	ASP	C-N-CA	5.55	131.69	121.70
1	P	154	ASP	O-C-N	-5.55	114.12	123.00
1	R	154	ASP	CA-C-N	5.55	131.69	121.70
1	R	154	ASP	C-N-CA	5.55	131.69	121.70
1	D	154	ASP	CA-C-N	5.55	131.69	121.70
1	D	154	ASP	C-N-CA	5.55	131.69	121.70
1	H	154	ASP	O-C-N	-5.55	114.12	123.00
1	O	154	ASP	O-C-N	-5.54	114.14	123.00
1	L	154	ASP	O-C-N	-5.54	114.14	123.00
1	K	154	ASP	O-C-N	-5.53	114.15	123.00
1	R	154	ASP	O-C-N	-5.53	114.15	123.00
1	I	154	ASP	O-C-N	-5.53	114.15	123.00
1	B	154	ASP	O-C-N	-5.53	114.16	123.00
1	A	154	ASP	O-C-N	-5.53	114.16	123.00
1	J	154	ASP	O-C-N	-5.53	114.16	123.00
1	F	154	ASP	O-C-N	-5.52	114.16	123.00
1	C	154	ASP	O-C-N	-5.52	114.17	123.00
1	M	154	ASP	O-C-N	-5.52	114.17	123.00
1	Q	154	ASP	O-C-N	-5.52	114.17	123.00
1	N	154	ASP	O-C-N	-5.51	114.18	123.00
1	E	154	ASP	O-C-N	-5.51	114.19	123.00
1	G	154	ASP	O-C-N	-5.50	114.19	123.00
1	F	74	GLN	N-CA-C	5.49	122.50	110.80
1	P	17	LEU	O-C-N	-5.48	116.28	122.97
1	O	74	GLN	N-CA-C	5.48	122.47	110.80
1	F	17	LEU	O-C-N	-5.47	116.29	122.97
1	K	74	GLN	N-CA-C	5.47	122.45	110.80
1	L	74	GLN	N-CA-C	5.47	122.45	110.80
1	D	74	GLN	N-CA-C	5.47	122.45	110.80
1	D	17	LEU	O-C-N	-5.47	116.30	122.97
1	B	17	LEU	O-C-N	-5.47	116.30	122.97
1	H	74	GLN	N-CA-C	5.47	122.45	110.80
1	I	74	GLN	N-CA-C	5.47	122.44	110.80
1	N	74	GLN	N-CA-C	5.47	122.44	110.80
1	A	74	GLN	N-CA-C	5.46	122.44	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	74	GLN	N-CA-C	5.46	122.44	110.80
1	I	17	LEU	O-C-N	-5.46	116.31	122.97
1	R	74	GLN	N-CA-C	5.46	122.44	110.80
1	G	74	GLN	N-CA-C	5.46	122.43	110.80
1	J	17	LEU	O-C-N	-5.46	116.31	122.97
1	J	74	GLN	N-CA-C	5.46	122.42	110.80
1	Q	74	GLN	N-CA-C	5.46	122.42	110.80
1	E	17	LEU	O-C-N	-5.45	116.32	122.97
1	M	74	GLN	N-CA-C	5.45	122.41	110.80
1	R	17	LEU	O-C-N	-5.45	116.33	122.97
1	M	17	LEU	O-C-N	-5.44	116.33	122.97
1	P	74	GLN	N-CA-C	5.44	122.40	110.80
1	A	17	LEU	O-C-N	-5.44	116.33	122.97
1	E	74	GLN	N-CA-C	5.44	122.39	110.80
1	N	17	LEU	O-C-N	-5.44	116.33	122.97
1	O	17	LEU	O-C-N	-5.44	116.33	122.97
1	C	74	GLN	N-CA-C	5.44	122.38	110.80
1	K	17	LEU	O-C-N	-5.44	116.34	122.97
1	C	17	LEU	O-C-N	-5.43	116.34	122.97
1	G	17	LEU	O-C-N	-5.43	116.34	122.97
1	L	17	LEU	O-C-N	-5.42	116.36	122.97
1	H	17	LEU	O-C-N	-5.41	116.37	122.97
1	J	53	GLU	CA-C-N	5.40	131.42	121.70
1	J	53	GLU	C-N-CA	5.40	131.42	121.70
1	K	53	GLU	CA-C-N	5.40	131.42	121.70
1	K	53	GLU	C-N-CA	5.40	131.42	121.70
1	E	53	GLU	CA-C-N	5.40	131.41	121.70
1	E	53	GLU	C-N-CA	5.40	131.41	121.70
1	H	53	GLU	CA-C-N	5.40	131.41	121.70
1	H	53	GLU	C-N-CA	5.40	131.41	121.70
1	I	53	GLU	CA-C-N	5.39	131.41	121.70
1	I	53	GLU	C-N-CA	5.39	131.41	121.70
1	M	53	GLU	CA-C-N	5.39	131.41	121.70
1	M	53	GLU	C-N-CA	5.39	131.41	121.70
1	F	53	GLU	CA-C-N	5.39	131.40	121.70
1	F	53	GLU	C-N-CA	5.39	131.40	121.70
1	B	53	GLU	CA-C-N	5.38	131.39	121.70
1	B	53	GLU	C-N-CA	5.38	131.39	121.70
1	A	53	GLU	CA-C-N	5.38	131.39	121.70
1	A	53	GLU	C-N-CA	5.38	131.39	121.70
1	G	53	GLU	CA-C-N	5.38	131.38	121.70
1	G	53	GLU	C-N-CA	5.38	131.38	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	53	GLU	CA-C-N	5.38	131.38	121.70
1	L	53	GLU	C-N-CA	5.38	131.38	121.70
1	N	53	GLU	CA-C-N	5.38	131.38	121.70
1	N	53	GLU	C-N-CA	5.38	131.38	121.70
1	O	53	GLU	CA-C-N	5.38	131.38	121.70
1	O	53	GLU	C-N-CA	5.38	131.38	121.70
1	Q	17	LEU	O-C-N	-5.38	116.41	122.97
1	C	53	GLU	CA-C-N	5.37	131.37	121.70
1	C	53	GLU	C-N-CA	5.37	131.37	121.70
1	P	53	GLU	CA-C-N	5.37	131.37	121.70
1	P	53	GLU	C-N-CA	5.37	131.37	121.70
1	D	53	GLU	CA-C-N	5.36	131.35	121.70
1	D	53	GLU	C-N-CA	5.36	131.35	121.70
1	Q	53	GLU	CA-C-N	5.36	131.35	121.70
1	Q	53	GLU	C-N-CA	5.36	131.35	121.70
1	R	53	GLU	CA-C-N	5.35	131.33	121.70
1	R	53	GLU	C-N-CA	5.35	131.33	121.70
1	G	145	ASN	N-CA-C	5.30	122.09	110.80
1	C	145	ASN	N-CA-C	5.29	122.07	110.80
1	D	145	ASN	N-CA-C	5.29	122.07	110.80
1	J	145	ASN	N-CA-C	5.29	122.07	110.80
1	B	145	ASN	N-CA-C	5.29	122.06	110.80
1	H	145	ASN	N-CA-C	5.29	122.06	110.80
1	A	145	ASN	N-CA-C	5.29	122.06	110.80
1	I	145	ASN	N-CA-C	5.29	122.06	110.80
1	N	145	ASN	N-CA-C	5.29	122.06	110.80
1	E	145	ASN	N-CA-C	5.29	122.06	110.80
1	L	145	ASN	N-CA-C	5.29	122.06	110.80
1	Q	145	ASN	N-CA-C	5.28	122.04	110.80
1	P	145	ASN	N-CA-C	5.28	122.04	110.80
1	M	145	ASN	N-CA-C	5.28	122.03	110.80
1	R	145	ASN	N-CA-C	5.28	122.04	110.80
1	O	145	ASN	N-CA-C	5.27	122.03	110.80
1	K	145	ASN	N-CA-C	5.27	122.02	110.80
1	F	145	ASN	N-CA-C	5.26	122.01	110.80
1	B	56	ASP	CA-C-N	5.24	131.13	121.70
1	B	56	ASP	C-N-CA	5.24	131.13	121.70
1	H	56	ASP	CA-C-N	5.23	131.12	121.70
1	H	56	ASP	C-N-CA	5.23	131.12	121.70
1	G	56	ASP	CA-C-N	5.23	131.11	121.70
1	G	56	ASP	C-N-CA	5.23	131.11	121.70
1	E	56	ASP	CA-C-N	5.22	131.10	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	56	ASP	C-N-CA	5.22	131.10	121.70
1	L	56	ASP	CA-C-N	5.22	131.09	121.70
1	L	56	ASP	C-N-CA	5.22	131.09	121.70
1	I	56	ASP	CA-C-N	5.22	131.09	121.70
1	I	56	ASP	C-N-CA	5.22	131.09	121.70
1	Q	56	ASP	CA-C-N	5.22	131.09	121.70
1	Q	56	ASP	C-N-CA	5.22	131.09	121.70
1	N	56	ASP	CA-C-N	5.21	131.09	121.70
1	N	56	ASP	C-N-CA	5.21	131.09	121.70
1	R	56	ASP	CA-C-N	5.21	131.09	121.70
1	R	56	ASP	C-N-CA	5.21	131.09	121.70
1	K	56	ASP	CA-C-N	5.21	131.08	121.70
1	K	56	ASP	C-N-CA	5.21	131.08	121.70
1	A	56	ASP	CA-C-N	5.21	131.08	121.70
1	A	56	ASP	C-N-CA	5.21	131.08	121.70
1	M	56	ASP	CA-C-N	5.21	131.08	121.70
1	M	56	ASP	C-N-CA	5.21	131.08	121.70
1	F	56	ASP	CA-C-N	5.21	131.08	121.70
1	F	56	ASP	C-N-CA	5.21	131.08	121.70
1	D	56	ASP	CA-C-N	5.21	131.07	121.70
1	D	56	ASP	C-N-CA	5.21	131.07	121.70
1	C	56	ASP	CA-C-N	5.21	131.07	121.70
1	C	56	ASP	C-N-CA	5.21	131.07	121.70
1	R	78	GLY	CA-C-N	5.20	130.97	121.97
1	R	78	GLY	C-N-CA	5.20	130.97	121.97
1	J	56	ASP	CA-C-N	5.20	131.05	121.70
1	J	56	ASP	C-N-CA	5.20	131.05	121.70
1	O	56	ASP	CA-C-N	5.20	131.05	121.70
1	O	56	ASP	C-N-CA	5.20	131.05	121.70
1	P	56	ASP	CA-C-N	5.19	131.05	121.70
1	P	56	ASP	C-N-CA	5.19	131.05	121.70
1	Q	78	GLY	CA-C-N	5.19	130.95	121.97
1	Q	78	GLY	C-N-CA	5.19	130.95	121.97
1	E	78	GLY	CA-C-N	5.19	130.94	121.97
1	E	78	GLY	C-N-CA	5.19	130.94	121.97
1	G	78	GLY	CA-C-N	5.19	130.94	121.97
1	G	78	GLY	C-N-CA	5.19	130.94	121.97
1	L	78	GLY	CA-C-N	5.18	130.94	121.97
1	L	78	GLY	C-N-CA	5.18	130.94	121.97
1	B	78	GLY	CA-C-N	5.18	130.93	121.97
1	B	78	GLY	C-N-CA	5.18	130.93	121.97
1	A	78	GLY	CA-C-N	5.18	130.92	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	78	GLY	C-N-CA	5.18	130.92	121.97
1	I	78	GLY	CA-C-N	5.18	130.93	121.97
1	I	78	GLY	C-N-CA	5.18	130.93	121.97
1	J	78	GLY	CA-C-N	5.18	130.93	121.97
1	J	78	GLY	C-N-CA	5.18	130.93	121.97
1	K	78	GLY	CA-C-N	5.18	130.93	121.97
1	K	78	GLY	C-N-CA	5.18	130.93	121.97
1	P	78	GLY	CA-C-N	5.18	130.93	121.97
1	P	78	GLY	C-N-CA	5.18	130.93	121.97
1	N	78	GLY	CA-C-N	5.17	130.91	121.97
1	N	78	GLY	C-N-CA	5.17	130.91	121.97
1	C	78	GLY	CA-C-N	5.17	130.91	121.97
1	C	78	GLY	C-N-CA	5.17	130.91	121.97
1	D	78	GLY	CA-C-N	5.17	130.91	121.97
1	D	78	GLY	C-N-CA	5.17	130.91	121.97
1	F	78	GLY	CA-C-N	5.16	130.90	121.97
1	F	78	GLY	C-N-CA	5.16	130.90	121.97
1	P	53	GLU	O-C-N	-5.16	115.73	122.59
1	O	78	GLY	CA-C-N	5.16	130.89	121.97
1	O	78	GLY	C-N-CA	5.16	130.89	121.97
1	M	78	GLY	CA-C-N	5.14	130.87	121.97
1	M	78	GLY	C-N-CA	5.14	130.87	121.97
1	H	78	GLY	CA-C-N	5.14	130.87	121.97
1	H	78	GLY	C-N-CA	5.14	130.87	121.97
1	G	53	GLU	O-C-N	-5.14	115.75	122.59
1	Q	53	GLU	O-C-N	-5.14	115.76	122.59
1	L	53	GLU	O-C-N	-5.13	115.76	122.59
1	L	63	GLU	N-CA-C	5.13	121.73	110.80
1	K	53	GLU	O-C-N	-5.13	115.77	122.59
1	O	53	GLU	O-C-N	-5.13	115.77	122.59
1	A	53	GLU	O-C-N	-5.13	115.77	122.59
1	R	53	GLU	O-C-N	-5.13	115.77	122.59
1	B	53	GLU	O-C-N	-5.12	115.77	122.59
1	D	53	GLU	O-C-N	-5.12	115.78	122.59
1	M	63	GLU	N-CA-C	5.12	121.71	110.80
1	H	53	GLU	O-C-N	-5.12	115.79	122.59
1	M	53	GLU	O-C-N	-5.12	115.79	122.59
1	Q	63	GLU	N-CA-C	5.11	121.69	110.80
1	I	63	GLU	N-CA-C	5.11	121.69	110.80
1	K	63	GLU	N-CA-C	5.11	121.69	110.80
1	N	63	GLU	N-CA-C	5.11	121.69	110.80
1	N	53	GLU	O-C-N	-5.10	115.80	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	63	GLU	N-CA-C	5.10	121.67	110.80
1	F	53	GLU	O-C-N	-5.10	115.81	122.59
1	F	63	GLU	N-CA-C	5.10	121.67	110.80
1	A	63	GLU	N-CA-C	5.10	121.67	110.80
1	I	53	GLU	O-C-N	-5.10	115.81	122.59
1	C	53	GLU	O-C-N	-5.10	115.81	122.59
1	E	53	GLU	O-C-N	-5.10	115.81	122.59
1	G	63	GLU	N-CA-C	5.10	121.66	110.80
1	J	53	GLU	O-C-N	-5.10	115.81	122.59
1	B	63	GLU	N-CA-C	5.10	121.66	110.80
1	C	63	GLU	N-CA-C	5.10	121.66	110.80
1	H	63	GLU	N-CA-C	5.09	121.65	110.80
1	D	63	GLU	N-CA-C	5.09	121.64	110.80
1	R	63	GLU	N-CA-C	5.09	121.65	110.80
1	E	63	GLU	N-CA-C	5.08	121.63	110.80
1	P	63	GLU	N-CA-C	5.08	121.63	110.80
1	J	63	GLU	N-CA-C	5.08	121.62	110.80
1	E	67	TRP	O-C-N	-5.01	116.33	122.25
1	R	156	SER	CA-C-N	5.01	127.99	120.87
1	R	156	SER	C-N-CA	5.01	127.99	120.87
1	E	156	SER	CA-C-N	5.01	127.98	120.87
1	E	156	SER	C-N-CA	5.01	127.98	120.87
1	K	156	SER	CA-C-N	5.01	127.98	120.87
1	K	156	SER	C-N-CA	5.01	127.98	120.87
1	M	156	SER	CA-C-N	5.01	127.98	120.87
1	M	156	SER	C-N-CA	5.01	127.98	120.87
1	C	56	ASP	O-C-N	-5.00	115.94	122.59
1	M	56	ASP	O-C-N	-5.00	115.94	122.59

All (54) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	153	GLU	CA
1	A	159	THR	CA
1	A	160	ALA	CA
1	B	153	GLU	CA
1	B	159	THR	CA
1	B	160	ALA	CA
1	C	153	GLU	CA
1	C	159	THR	CA
1	C	160	ALA	CA
1	D	153	GLU	CA

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Mol	Chain	Res	Type	Atom
1	D	159	THR	CA
1	D	160	ALA	CA
1	E	153	GLU	CA
1	E	159	THR	CA
1	E	160	ALA	CA
1	F	153	GLU	CA
1	F	159	THR	CA
1	F	160	ALA	CA
1	G	153	GLU	CA
1	G	159	THR	CA
1	G	160	ALA	CA
1	H	153	GLU	CA
1	H	159	THR	CA
1	H	160	ALA	CA
1	I	153	GLU	CA
1	I	159	THR	CA
1	I	160	ALA	CA
1	J	153	GLU	CA
1	J	159	THR	CA
1	J	160	ALA	CA
1	K	153	GLU	CA
1	K	159	THR	CA
1	K	160	ALA	CA
1	L	153	GLU	CA
1	L	159	THR	CA
1	L	160	ALA	CA
1	M	153	GLU	CA
1	M	159	THR	CA
1	M	160	ALA	CA
1	N	153	GLU	CA
1	N	159	THR	CA
1	N	160	ALA	CA
1	O	153	GLU	CA
1	O	159	THR	CA
1	O	160	ALA	CA
1	P	153	GLU	CA
1	P	159	THR	CA
1	P	160	ALA	CA
1	Q	153	GLU	CA
1	Q	159	THR	CA
1	Q	160	ALA	CA
1	R	153	GLU	CA

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Mol	Chain	Res	Type	Atom
1	R	159	THR	CA
1	R	160	ALA	CA

All (216) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1	MET	Peptide
1	A	121	ARG	Sidechain
1	A	139	ARG	Sidechain
1	A	155	ARG	Sidechain
1	A	195	PHE	Sidechain
1	A	54	SER	Peptide
1	A	55	TYR	Sidechain,Peptide
1	A	59	TYR	Sidechain
1	A	67	TRP	Peptide
1	A	73	GLY	Peptide
1	A	78	GLY	Peptide
1	B	1	MET	Peptide
1	B	121	ARG	Sidechain
1	B	139	ARG	Sidechain
1	B	155	ARG	Sidechain
1	B	195	PHE	Sidechain
1	B	54	SER	Peptide
1	B	55	TYR	Sidechain,Peptide
1	B	59	TYR	Sidechain
1	B	67	TRP	Peptide
1	B	73	GLY	Peptide
1	B	78	GLY	Peptide
1	C	1	MET	Peptide
1	C	121	ARG	Sidechain
1	C	139	ARG	Sidechain
1	C	155	ARG	Sidechain
1	C	195	PHE	Sidechain
1	C	54	SER	Peptide
1	C	55	TYR	Sidechain,Peptide
1	C	59	TYR	Sidechain
1	C	67	TRP	Peptide
1	C	73	GLY	Peptide
1	C	78	GLY	Peptide
1	D	1	MET	Peptide
1	D	121	ARG	Sidechain
1	D	139	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	D	155	ARG	Sidechain
1	D	195	PHE	Sidechain
1	D	54	SER	Peptide
1	D	55	TYR	Sidechain,Peptide
1	D	59	TYR	Sidechain
1	D	67	TRP	Peptide
1	D	73	GLY	Peptide
1	D	78	GLY	Peptide
1	E	1	MET	Peptide
1	E	121	ARG	Sidechain
1	E	139	ARG	Sidechain
1	E	155	ARG	Sidechain
1	E	195	PHE	Sidechain
1	E	54	SER	Peptide
1	E	55	TYR	Sidechain,Peptide
1	E	59	TYR	Sidechain
1	E	67	TRP	Peptide
1	E	73	GLY	Peptide
1	E	78	GLY	Peptide
1	F	1	MET	Peptide
1	F	121	ARG	Sidechain
1	F	139	ARG	Sidechain
1	F	155	ARG	Sidechain
1	F	195	PHE	Sidechain
1	F	54	SER	Peptide
1	F	55	TYR	Sidechain,Peptide
1	F	59	TYR	Sidechain
1	F	67	TRP	Peptide
1	F	73	GLY	Peptide
1	F	78	GLY	Peptide
1	G	1	MET	Peptide
1	G	121	ARG	Sidechain
1	G	139	ARG	Sidechain
1	G	155	ARG	Sidechain
1	G	195	PHE	Sidechain
1	G	54	SER	Peptide
1	G	55	TYR	Sidechain,Peptide
1	G	59	TYR	Sidechain
1	G	67	TRP	Peptide
1	G	73	GLY	Peptide
1	G	78	GLY	Peptide
1	H	1	MET	Peptide

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Mol	Chain	Res	Type	Group
1	H	121	ARG	Sidechain
1	H	139	ARG	Sidechain
1	H	155	ARG	Sidechain
1	H	195	PHE	Sidechain
1	H	54	SER	Peptide
1	H	55	TYR	Sidechain,Peptide
1	H	59	TYR	Sidechain
1	H	67	TRP	Peptide
1	H	73	GLY	Peptide
1	H	78	GLY	Peptide
1	I	1	MET	Peptide
1	I	121	ARG	Sidechain
1	I	139	ARG	Sidechain
1	I	155	ARG	Sidechain
1	I	195	PHE	Sidechain
1	I	54	SER	Peptide
1	I	55	TYR	Sidechain,Peptide
1	I	59	TYR	Sidechain
1	I	67	TRP	Peptide
1	I	73	GLY	Peptide
1	I	78	GLY	Peptide
1	J	1	MET	Peptide
1	J	121	ARG	Sidechain
1	J	139	ARG	Sidechain
1	J	155	ARG	Sidechain
1	J	195	PHE	Sidechain
1	J	54	SER	Peptide
1	J	55	TYR	Sidechain,Peptide
1	J	59	TYR	Sidechain
1	J	67	TRP	Peptide
1	J	73	GLY	Peptide
1	J	78	GLY	Peptide
1	K	1	MET	Peptide
1	K	121	ARG	Sidechain
1	K	139	ARG	Sidechain
1	K	155	ARG	Sidechain
1	K	195	PHE	Sidechain
1	K	54	SER	Peptide
1	K	55	TYR	Sidechain,Peptide
1	K	59	TYR	Sidechain
1	K	67	TRP	Peptide
1	K	73	GLY	Peptide

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Mol	Chain	Res	Type	Group
1	K	78	GLY	Peptide
1	L	1	MET	Peptide
1	L	121	ARG	Sidechain
1	L	139	ARG	Sidechain
1	L	155	ARG	Sidechain
1	L	195	PHE	Sidechain
1	L	54	SER	Peptide
1	L	55	TYR	Sidechain,Peptide
1	L	59	TYR	Sidechain
1	L	67	TRP	Peptide
1	L	73	GLY	Peptide
1	L	78	GLY	Peptide
1	M	1	MET	Peptide
1	M	121	ARG	Sidechain
1	M	139	ARG	Sidechain
1	M	155	ARG	Sidechain
1	M	195	PHE	Sidechain
1	M	54	SER	Peptide
1	M	55	TYR	Sidechain,Peptide
1	M	59	TYR	Sidechain
1	M	67	TRP	Peptide
1	M	73	GLY	Peptide
1	M	78	GLY	Peptide
1	N	1	MET	Peptide
1	N	121	ARG	Sidechain
1	N	139	ARG	Sidechain
1	N	155	ARG	Sidechain
1	N	195	PHE	Sidechain
1	N	54	SER	Peptide
1	N	55	TYR	Sidechain,Peptide
1	N	59	TYR	Sidechain
1	N	67	TRP	Peptide
1	N	73	GLY	Peptide
1	N	78	GLY	Peptide
1	O	1	MET	Peptide
1	O	121	ARG	Sidechain
1	O	139	ARG	Sidechain
1	O	155	ARG	Sidechain
1	O	195	PHE	Sidechain
1	O	54	SER	Peptide
1	O	55	TYR	Sidechain,Peptide
1	O	59	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	O	67	TRP	Peptide
1	O	73	GLY	Peptide
1	O	78	GLY	Peptide
1	P	1	MET	Peptide
1	P	121	ARG	Sidechain
1	P	139	ARG	Sidechain
1	P	155	ARG	Sidechain
1	P	195	PHE	Sidechain
1	P	54	SER	Peptide
1	P	55	TYR	Sidechain,Peptide
1	P	59	TYR	Sidechain
1	P	67	TRP	Peptide
1	P	73	GLY	Peptide
1	P	78	GLY	Peptide
1	Q	1	MET	Peptide
1	Q	121	ARG	Sidechain
1	Q	139	ARG	Sidechain
1	Q	155	ARG	Sidechain
1	Q	195	PHE	Sidechain
1	Q	54	SER	Peptide
1	Q	55	TYR	Sidechain,Peptide
1	Q	59	TYR	Sidechain
1	Q	67	TRP	Peptide
1	Q	73	GLY	Peptide
1	Q	78	GLY	Peptide
1	R	1	MET	Peptide
1	R	121	ARG	Sidechain
1	R	139	ARG	Sidechain
1	R	155	ARG	Sidechain
1	R	195	PHE	Sidechain
1	R	54	SER	Peptide
1	R	55	TYR	Sidechain,Peptide
1	R	59	TYR	Sidechain
1	R	67	TRP	Peptide
1	R	73	GLY	Peptide
1	R	78	GLY	Peptide

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	1815	1787	1780	368	0
1	B	1815	1787	1780	404	0
1	C	1815	1787	1780	394	0
1	D	1815	1787	1781	417	0
1	E	1815	1787	1780	399	0
1	F	1815	1787	1779	366	0
1	G	1815	1787	1778	418	0
1	H	1815	1787	1778	458	0
1	I	1815	1787	1778	445	0
1	J	1815	1787	1780	471	0
1	K	1815	1787	1778	436	0
1	L	1815	1787	1777	425	0
1	M	1815	1787	1781	378	0
1	N	1815	1787	1781	402	0
1	O	1815	1787	1782	401	0
1	P	1815	1787	1783	412	0
1	Q	1815	1787	1781	382	0
1	R	1815	1787	1780	378	0
All	All	32670	32166	32037	3701	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 57.

All (3701) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4:PRO:CG	1:E:89:GLY:HA3	1.25	1.64
1:J:4:PRO:CG	1:K:89:GLY:HA3	1.25	1.63
1:A:4:PRO:CG	1:B:89:GLY:HA3	1.26	1.63
1:O:4:PRO:CG	1:P:89:GLY:HA3	1.27	1.63
1:I:4:PRO:CG	1:J:89:GLY:HA3	1.27	1.61
1:H:4:PRO:HG3	1:I:89:GLY:CA	1.15	1.61
1:B:4:PRO:CG	1:C:89:GLY:HA3	1.23	1.61
1:G:4:PRO:HG3	1:H:89:GLY:CA	1.21	1.61
1:G:4:PRO:CG	1:H:89:GLY:HA3	1.27	1.60
1:K:4:PRO:HG3	1:L:89:GLY:CA	1.14	1.60
1:O:4:PRO:HG3	1:P:89:GLY:CA	1.20	1.60
1:C:4:PRO:HG3	1:D:89:GLY:CA	1.20	1.59
1:M:4:PRO:CG	1:N:89:GLY:HA3	1.27	1.59
1:J:4:PRO:HG3	1:K:89:GLY:CA	1.17	1.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:4:PRO:HG3	1:R:89:GLY:CA	1.14	1.58
1:B:4:PRO:HG3	1:C:89:GLY:CA	1.15	1.58
1:I:4:PRO:HG3	1:J:89:GLY:CA	1.20	1.58
1:Q:4:PRO:CG	1:R:89:GLY:HA3	1.22	1.58
1:D:4:PRO:HG3	1:E:89:GLY:CA	1.17	1.57
1:E:4:PRO:HG3	1:F:89:GLY:CA	1.14	1.57
1:H:4:PRO:CG	1:I:89:GLY:HA3	1.23	1.57
1:P:4:PRO:HG3	1:Q:89:GLY:CA	1.17	1.57
1:N:4:PRO:HG3	1:O:89:GLY:CA	1.15	1.56
1:P:4:PRO:CG	1:Q:89:GLY:HA3	1.25	1.55
1:A:4:PRO:HG3	1:B:89:GLY:CA	1.21	1.55
1:C:4:PRO:CG	1:D:89:GLY:HA3	1.27	1.54
1:K:4:PRO:CG	1:L:89:GLY:HA3	1.22	1.54
1:M:4:PRO:HG3	1:N:89:GLY:CA	1.21	1.54
1:N:4:PRO:CG	1:O:89:GLY:HA3	1.23	1.54
1:E:4:PRO:CG	1:F:89:GLY:HA3	1.22	1.54
1:J:8:MET:CB	1:K:134:LYS:HD3	1.37	1.51
1:D:8:MET:CB	1:E:134:LYS:HD3	1.37	1.50
1:G:8:MET:CB	1:H:134:LYS:HD3	1.40	1.49
1:P:8:MET:CB	1:Q:134:LYS:HD3	1.37	1.49
1:M:8:MET:CB	1:N:134:LYS:HD3	1.40	1.49
1:E:151:MET:C	1:F:91:GLN:HG2	1.07	1.48
1:C:8:MET:CB	1:D:134:LYS:HD3	1.44	1.47
1:I:8:MET:CB	1:J:134:LYS:HD3	1.44	1.47
1:K:151:MET:C	1:L:91:GLN:HG2	1.07	1.47
1:B:151:MET:C	1:C:91:GLN:HG2	1.06	1.46
1:A:8:MET:CB	1:B:134:LYS:HD3	1.46	1.46
1:H:8:MET:CB	1:I:134:LYS:HD3	1.46	1.45
1:B:8:MET:CB	1:C:134:LYS:HD3	1.46	1.45
1:Q:151:MET:C	1:R:91:GLN:HG2	1.07	1.45
1:F:12:GLY:C	1:J:67:TRP:CE3	1.95	1.44
1:O:8:MET:CB	1:P:134:LYS:HD3	1.44	1.44
1:G:88:PRO:O	1:L:4:PRO:CB	1.63	1.44
1:A:89:GLY:HA3	1:F:4:PRO:CG	0.96	1.44
1:J:4:PRO:CD	1:K:88:PRO:O	1.64	1.44
1:N:151:MET:C	1:O:91:GLN:HG2	1.05	1.43
1:P:48:GLY:O	1:Q:129:LYS:CG	1.66	1.43
1:H:151:MET:C	1:I:91:GLN:HG2	1.06	1.43
1:M:88:PRO:O	1:R:4:PRO:CB	1.63	1.43
1:D:48:GLY:O	1:E:129:LYS:CG	1.66	1.43
1:G:89:GLY:HA3	1:L:4:PRO:CG	0.96	1.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:48:GLY:O	1:K:129:LYS:CG	1.66	1.43
1:P:4:PRO:CD	1:Q:88:PRO:O	1.64	1.43
1:D:4:PRO:CD	1:E:88:PRO:O	1.64	1.42
1:J:12:GLY:C	1:N:67:TRP:CE3	1.97	1.42
1:M:89:GLY:HA3	1:R:4:PRO:CG	0.96	1.42
1:K:8:MET:CB	1:L:134:LYS:HD3	1.48	1.41
1:N:8:MET:CB	1:O:134:LYS:HD3	1.46	1.41
1:D:12:GLY:C	1:H:68:THR:OG1	1.64	1.41
1:O:4:PRO:CD	1:P:88:PRO:O	1.68	1.41
1:A:151:MET:O	1:B:91:GLN:CD	1.63	1.41
1:L:12:GLY:C	1:P:67:TRP:CE3	1.96	1.41
1:D:151:MET:C	1:E:91:GLN:HG2	0.98	1.41
1:E:8:MET:CB	1:F:134:LYS:HD3	1.48	1.40
1:I:4:PRO:CD	1:J:88:PRO:O	1.68	1.40
1:J:4:PRO:CG	1:K:88:PRO:O	1.69	1.40
1:K:12:GLY:C	1:O:67:TRP:CE3	2.00	1.40
1:M:88:PRO:O	1:R:4:PRO:CD	1.70	1.40
1:Q:8:MET:CB	1:R:134:LYS:HD3	1.48	1.40
1:D:12:GLY:C	1:H:67:TRP:CE3	1.99	1.40
1:G:88:PRO:O	1:L:4:PRO:CD	1.70	1.40
1:C:151:MET:C	1:D:91:GLN:HG2	0.98	1.40
1:A:151:MET:C	1:B:91:GLN:HG2	0.98	1.39
1:J:151:MET:C	1:K:91:GLN:HG2	0.99	1.39
1:P:151:MET:C	1:Q:91:GLN:HG2	0.99	1.39
1:B:12:GLY:C	1:L:67:TRP:CE3	2.01	1.39
1:C:4:PRO:CD	1:D:88:PRO:O	1.68	1.39
1:D:4:PRO:CG	1:E:88:PRO:O	1.69	1.39
1:K:12:GLY:C	1:O:68:THR:OG1	1.65	1.39
1:H:12:GLY:C	1:R:67:TRP:CE3	1.99	1.39
1:H:12:GLY:C	1:R:68:THR:OG1	1.64	1.39
1:O:152:ALA:CB	1:P:91:GLN:HB2	1.53	1.39
1:I:152:ALA:CB	1:J:91:GLN:HB2	1.53	1.38
1:Q:48:GLY:O	1:R:129:LYS:CG	1.70	1.38
1:I:4:PRO:CG	1:J:88:PRO:O	1.69	1.38
1:O:4:PRO:CG	1:P:88:PRO:O	1.69	1.38
1:O:151:MET:C	1:P:91:GLN:HG2	0.98	1.38
1:K:48:GLY:O	1:L:129:LYS:CG	1.70	1.38
1:C:152:ALA:CB	1:D:91:GLN:HB2	1.53	1.38
1:G:151:MET:C	1:H:91:GLN:HG2	0.97	1.38
1:J:12:GLY:C	1:N:68:THR:OG1	1.65	1.38
1:C:4:PRO:CG	1:D:88:PRO:O	1.69	1.38

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:151:MET:C	1:J:91:GLN:HG2	0.98	1.38
1:M:151:MET:C	1:N:91:GLN:HG2	0.97	1.38
1:O:4:PRO:CB	1:P:88:PRO:O	1.71	1.37
1:H:48:GLY:O	1:I:129:LYS:CG	1.71	1.37
1:C:48:GLY:O	1:D:129:LYS:CG	1.72	1.37
1:E:12:GLY:C	1:I:67:TRP:CE3	2.00	1.37
1:E:12:GLY:C	1:I:68:THR:OG1	1.65	1.37
1:G:89:GLY:CA	1:L:4:PRO:HG3	0.89	1.37
1:N:150:SER:OG	1:O:94:GLN:NE2	1.57	1.37
1:D:8:MET:HB3	1:E:134:LYS:CD	1.55	1.37
1:E:48:GLY:O	1:F:129:LYS:CG	1.70	1.37
1:P:4:PRO:CG	1:Q:88:PRO:O	1.69	1.37
1:I:4:PRO:CB	1:J:88:PRO:O	1.71	1.36
1:J:8:MET:HB3	1:K:134:LYS:CD	1.55	1.36
1:C:4:PRO:CB	1:D:88:PRO:O	1.71	1.36
1:I:48:GLY:O	1:J:129:LYS:CG	1.72	1.36
1:M:89:GLY:CA	1:R:4:PRO:HG3	0.89	1.36
1:N:48:GLY:O	1:O:129:LYS:CG	1.71	1.36
1:P:8:MET:HB3	1:Q:134:LYS:CD	1.55	1.36
1:M:4:PRO:CD	1:N:88:PRO:O	1.72	1.36
1:B:48:GLY:O	1:C:129:LYS:CG	1.71	1.35
1:E:152:ALA:CB	1:F:91:GLN:HB2	1.56	1.35
1:G:151:MET:O	1:H:91:GLN:CD	1.68	1.35
1:K:152:ALA:CB	1:L:91:GLN:HB2	1.56	1.35
1:H:150:SER:OG	1:I:94:GLN:NE2	1.57	1.35
1:Q:152:ALA:CB	1:R:91:GLN:HB2	1.56	1.35
1:G:4:PRO:CD	1:H:88:PRO:O	1.72	1.35
1:K:150:SER:OG	1:L:94:GLN:NE2	1.57	1.35
1:A:89:GLY:CA	1:F:4:PRO:HG3	0.88	1.35
1:A:4:PRO:CD	1:B:88:PRO:O	1.75	1.35
1:O:48:GLY:O	1:P:129:LYS:CG	1.72	1.35
1:B:152:ALA:CB	1:C:91:GLN:HB2	1.56	1.34
1:H:152:ALA:CB	1:I:91:GLN:HB2	1.56	1.34
1:N:152:ALA:CB	1:O:91:GLN:HB2	1.56	1.34
1:P:4:PRO:CB	1:Q:88:PRO:O	1.73	1.34
1:Q:150:SER:OG	1:R:94:GLN:NE2	1.57	1.34
1:J:4:PRO:CB	1:K:88:PRO:O	1.73	1.34
1:M:151:MET:O	1:N:91:GLN:CD	1.68	1.34
1:F:12:GLY:C	1:J:68:THR:OG1	1.70	1.34
1:J:151:MET:O	1:K:91:GLN:CD	1.70	1.34
1:M:152:ALA:CB	1:N:91:GLN:HB2	1.57	1.34

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:4:PRO:CB	1:E:88:PRO:O	1.73	1.33
1:D:151:MET:O	1:E:91:GLN:CD	1.70	1.33
1:M:8:MET:HB3	1:N:134:LYS:CD	1.58	1.33
1:P:151:MET:O	1:Q:91:GLN:CD	1.70	1.33
1:G:8:MET:HB3	1:H:134:LYS:CD	1.58	1.33
1:E:150:SER:OG	1:F:94:GLN:NE2	1.57	1.33
1:K:12:GLY:O	1:O:66:ASP:HB2	1.23	1.33
1:C:150:SER:OG	1:D:94:GLN:NE2	1.62	1.33
1:G:152:ALA:CB	1:H:91:GLN:HB2	1.57	1.33
1:K:13:ALA:N	1:O:68:THR:OG1	1.61	1.33
1:A:150:SER:OG	1:B:94:GLN:NE2	1.58	1.32
1:L:12:GLY:C	1:P:68:THR:OG1	1.69	1.32
1:G:4:PRO:CG	1:H:88:PRO:O	1.77	1.32
1:B:150:SER:OG	1:C:94:GLN:NE2	1.57	1.32
1:A:87:MET:HE2	1:F:5:ASN:O	1.26	1.32
1:C:152:ALA:HB2	1:D:91:GLN:CB	1.59	1.32
1:G:150:SER:OG	1:H:94:GLN:NE2	1.59	1.32
1:M:150:SER:OG	1:N:94:GLN:NE2	1.59	1.31
1:Q:152:ALA:HB2	1:R:91:GLN:CB	1.59	1.31
1:E:13:ALA:N	1:I:68:THR:OG1	1.60	1.31
1:G:4:PRO:CB	1:H:88:PRO:O	1.79	1.31
1:A:152:ALA:CB	1:B:91:GLN:HB2	1.60	1.31
1:F:13:ALA:N	1:J:68:THR:OG1	1.64	1.31
1:A:134:LYS:CB	1:F:8:MET:SD	2.17	1.31
1:I:150:SER:OG	1:J:94:GLN:NE2	1.62	1.31
1:M:88:PRO:C	1:R:4:PRO:HB3	1.55	1.31
1:O:152:ALA:HB2	1:P:91:GLN:CB	1.59	1.31
1:D:152:ALA:CB	1:E:91:GLN:HB2	1.58	1.30
1:E:152:ALA:HB2	1:F:91:GLN:CB	1.60	1.30
1:P:152:ALA:CB	1:Q:91:GLN:HB2	1.58	1.30
1:L:13:ALA:N	1:P:68:THR:OG1	1.63	1.30
1:M:4:PRO:CB	1:N:88:PRO:O	1.79	1.30
1:J:152:ALA:CB	1:K:91:GLN:HB2	1.58	1.30
1:G:88:PRO:C	1:L:4:PRO:HB3	1.55	1.30
1:M:4:PRO:CG	1:N:88:PRO:O	1.77	1.30
1:O:150:SER:OG	1:P:94:GLN:NE2	1.62	1.30
1:C:49:GLU:OE1	1:D:131:VAL:HG23	1.32	1.30
1:I:49:GLU:OE1	1:J:131:VAL:HG23	1.32	1.29
1:M:152:ALA:HB2	1:N:91:GLN:CB	1.62	1.29
1:B:152:ALA:HB2	1:C:91:GLN:CB	1.60	1.29
1:H:12:GLY:O	1:R:66:ASP:HB2	1.17	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:152:ALA:HB2	1:L:91:GLN:CB	1.60	1.29
1:I:152:ALA:HB2	1:J:91:GLN:CB	1.59	1.29
1:A:91:GLN:HE22	1:F:155:ARG:CD	1.46	1.29
1:G:152:ALA:HB2	1:H:91:GLN:CB	1.62	1.29
1:D:12:GLY:O	1:H:66:ASP:HB2	1.25	1.29
1:N:152:ALA:HB2	1:O:91:GLN:CB	1.60	1.29
1:O:151:MET:O	1:P:91:GLN:CD	1.76	1.29
1:A:8:MET:HB3	1:B:134:LYS:CD	1.64	1.28
1:B:8:MET:HB3	1:C:134:LYS:CD	1.63	1.28
1:E:12:GLY:O	1:I:66:ASP:HB2	1.22	1.28
1:H:13:ALA:N	1:R:68:THR:OG1	1.64	1.28
1:O:49:GLU:OE1	1:P:131:VAL:HG23	1.32	1.28
1:C:151:MET:O	1:D:91:GLN:CD	1.76	1.28
1:I:151:MET:O	1:J:91:GLN:CD	1.76	1.28
1:O:49:GLU:CD	1:P:131:VAL:CG2	2.03	1.28
1:H:152:ALA:HB2	1:I:91:GLN:CB	1.60	1.27
1:M:49:GLU:CD	1:N:131:VAL:CG2	2.08	1.27
1:C:8:MET:HB3	1:D:134:LYS:CD	1.63	1.27
1:G:88:PRO:O	1:L:4:PRO:CG	1.82	1.27
1:H:8:MET:HB3	1:I:134:LYS:CD	1.63	1.27
1:J:12:GLY:O	1:N:66:ASP:HB2	1.25	1.27
1:O:8:MET:HB3	1:P:134:LYS:CD	1.63	1.27
1:B:49:GLU:OE1	1:C:131:VAL:HG23	1.35	1.27
1:I:8:MET:HB3	1:J:134:LYS:CD	1.63	1.27
1:A:134:LYS:HD3	1:F:8:MET:CB	1.62	1.26
1:G:87:MET:HE2	1:L:5:ASN:O	1.32	1.26
1:M:87:MET:HE2	1:R:5:ASN:O	1.32	1.26
1:D:5:ASN:N	1:E:87:MET:HE2	1.50	1.26
1:G:134:LYS:HD3	1:L:8:MET:CB	1.64	1.26
1:J:5:ASN:N	1:K:87:MET:HE2	1.50	1.26
1:J:49:GLU:CD	1:K:131:VAL:CG2	2.08	1.26
1:A:4:PRO:CG	1:B:88:PRO:O	1.84	1.26
1:H:49:GLU:OE1	1:I:131:VAL:HG23	1.35	1.26
1:N:8:MET:HB3	1:O:134:LYS:CD	1.63	1.26
1:P:49:GLU:CD	1:Q:131:VAL:CG2	2.08	1.26
1:A:12:GLY:O	1:K:66:ASP:HB2	1.33	1.26
1:A:134:LYS:HB3	1:F:8:MET:SD	1.74	1.26
1:D:13:ALA:N	1:H:68:THR:OG1	1.64	1.26
1:M:134:LYS:HD3	1:R:8:MET:CB	1.64	1.26
1:M:88:PRO:O	1:R:4:PRO:CG	1.82	1.25
1:E:8:MET:HB3	1:F:134:LYS:CD	1.64	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:8:MET:SD	1:R:134:LYS:CB	2.25	1.25
1:Q:8:MET:HB3	1:R:134:LYS:CD	1.64	1.25
1:L:12:GLY:O	1:P:66:ASP:HB2	1.30	1.25
1:C:12:GLY:HA3	1:G:68:THR:CG2	1.66	1.25
1:D:49:GLU:CD	1:E:131:VAL:CG2	2.08	1.25
1:G:134:LYS:CB	1:L:8:MET:SD	2.25	1.25
1:I:49:GLU:CD	1:J:131:VAL:CG2	2.03	1.25
1:B:12:GLY:O	1:L:66:ASP:HB2	1.19	1.25
1:D:152:ALA:HB2	1:E:91:GLN:CB	1.67	1.25
1:H:49:GLU:CD	1:I:131:VAL:CG2	2.07	1.25
1:M:134:LYS:CB	1:R:8:MET:SD	2.25	1.25
1:N:49:GLU:OE1	1:O:131:VAL:HG23	1.35	1.25
1:A:4:PRO:CB	1:B:88:PRO:O	1.84	1.24
1:C:49:GLU:CD	1:D:131:VAL:CG2	2.03	1.24
1:K:8:MET:HB3	1:L:134:LYS:CD	1.64	1.24
1:P:5:ASN:N	1:Q:87:MET:HE2	1.51	1.24
1:G:12:GLY:C	1:Q:67:TRP:CE3	2.14	1.24
1:J:152:ALA:HB2	1:K:91:GLN:CB	1.67	1.24
1:N:8:MET:SD	1:O:134:LYS:CB	2.26	1.24
1:E:8:MET:SD	1:F:134:LYS:CB	2.25	1.24
1:K:48:GLY:O	1:L:129:LYS:HG2	1.29	1.24
1:K:8:MET:SD	1:L:134:LYS:CB	2.25	1.24
1:K:49:GLU:CD	1:L:131:VAL:CG2	2.09	1.24
1:N:49:GLU:CD	1:O:131:VAL:CG2	2.07	1.24
1:D:8:MET:SD	1:E:134:LYS:CB	2.26	1.24
1:G:12:GLY:O	1:Q:66:ASP:HB2	1.33	1.23
1:J:13:ALA:N	1:N:68:THR:OG1	1.67	1.23
1:Q:49:GLU:CD	1:R:131:VAL:CG2	2.09	1.23
1:J:111:ARG:CZ	1:N:66:ASP:OD1	1.66	1.23
1:P:152:ALA:HB2	1:Q:91:GLN:CB	1.67	1.23
1:E:49:GLU:CD	1:F:131:VAL:CG2	2.09	1.23
1:H:111:ARG:CZ	1:R:66:ASP:OD1	1.68	1.23
1:J:8:MET:SD	1:K:134:LYS:CB	2.26	1.23
1:P:8:MET:SD	1:Q:134:LYS:CB	2.26	1.23
1:B:49:GLU:CD	1:C:131:VAL:CG2	2.07	1.23
1:F:12:GLY:O	1:J:66:ASP:HB2	1.28	1.23
1:H:8:MET:SD	1:I:134:LYS:CB	2.26	1.23
1:B:8:MET:SD	1:C:134:LYS:CB	2.26	1.23
1:O:5:ASN:N	1:P:87:MET:HE2	1.54	1.22
1:G:91:GLN:HE22	1:L:155:ARG:CD	1.53	1.22
1:A:49:GLU:CD	1:B:131:VAL:CG2	2.06	1.22

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:152:ALA:HB2	1:B:91:GLN:CB	1.67	1.22
1:C:5:ASN:N	1:D:87:MET:HE2	1.54	1.22
1:B:111:ARG:CZ	1:L:66:ASP:OD1	1.67	1.21
1:I:151:MET:O	1:J:91:GLN:HG3	1.41	1.21
1:G:12:GLY:HA3	1:Q:68:THR:CG2	1.70	1.21
1:J:8:MET:CE	1:K:134:LYS:HB3	1.70	1.21
1:D:49:GLU:OE1	1:E:131:VAL:HG23	1.36	1.21
1:I:12:GLY:HA3	1:M:68:THR:CG2	1.68	1.21
1:M:49:GLU:OE1	1:N:131:VAL:HG23	1.41	1.21
1:H:152:ALA:HB1	1:I:38:ARG:HH22	1.05	1.21
1:G:49:GLU:OE1	1:H:131:VAL:HG23	1.41	1.20
1:N:5:ASN:N	1:O:87:MET:HE2	1.57	1.20
1:M:134:LYS:HB3	1:R:8:MET:SD	1.81	1.20
1:Q:49:GLU:OE1	1:R:131:VAL:HG23	1.37	1.20
1:A:12:GLY:C	1:K:67:TRP:CE3	2.20	1.20
1:D:8:MET:CE	1:E:134:LYS:HB3	1.70	1.20
1:G:134:LYS:HB3	1:L:8:MET:SD	1.81	1.20
1:I:5:ASN:N	1:J:87:MET:HE2	1.54	1.20
1:P:8:MET:CE	1:Q:134:LYS:HB3	1.70	1.20
1:B:5:ASN:N	1:C:87:MET:HE2	1.57	1.19
1:P:49:GLU:OE1	1:Q:131:VAL:HG23	1.37	1.19
1:A:148:ARG:CG	1:B:93:GLN:HE22	1.53	1.19
1:G:49:GLU:CD	1:H:131:VAL:CG2	2.08	1.19
1:J:49:GLU:OE1	1:K:131:VAL:HG23	1.37	1.19
1:A:87:MET:CE	1:F:5:ASN:O	1.88	1.19
1:E:49:GLU:OE1	1:F:131:VAL:HG23	1.37	1.19
1:K:49:GLU:OE1	1:L:131:VAL:HG23	1.37	1.19
1:M:91:GLN:HE22	1:R:155:ARG:CD	1.53	1.19
1:B:151:MET:O	1:C:91:GLN:CD	1.86	1.19
1:G:5:ASN:N	1:H:87:MET:HE2	1.55	1.19
1:H:5:ASN:N	1:I:87:MET:HE2	1.57	1.19
1:O:151:MET:O	1:P:91:GLN:HG3	1.41	1.19
1:Q:8:MET:CE	1:R:134:LYS:HB3	1.72	1.19
1:D:8:MET:SD	1:E:134:LYS:CD	2.31	1.18
1:E:8:MET:CE	1:F:134:LYS:HB3	1.72	1.18
1:G:89:GLY:HA3	1:L:4:PRO:HG2	1.22	1.18
1:H:151:MET:O	1:I:91:GLN:CD	1.86	1.18
1:J:8:MET:SD	1:K:134:LYS:CD	2.31	1.18
1:N:151:MET:O	1:O:91:GLN:CD	1.86	1.18
1:I:12:GLY:C	1:M:67:TRP:CE3	2.21	1.18
1:A:49:GLU:CD	1:B:131:VAL:HG23	1.68	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:ALA:CB	1:B:127:ILE:H	1.55	1.18
1:D:151:MET:O	1:E:91:GLN:HG3	1.43	1.18
1:P:8:MET:SD	1:Q:134:LYS:CD	2.31	1.18
1:H:48:GLY:O	1:I:129:LYS:HG2	1.31	1.18
1:M:5:ASN:N	1:N:87:MET:HE2	1.55	1.18
1:O:48:GLY:O	1:P:129:LYS:HG2	1.33	1.18
1:A:49:GLU:CG	1:B:131:VAL:HG22	1.74	1.18
1:O:49:GLU:CG	1:P:131:VAL:HG22	1.74	1.18
1:A:49:GLU:OE1	1:B:131:VAL:HG23	1.42	1.17
1:C:114:ASN:ND2	1:D:135:GLU:OE1	1.75	1.17
1:I:114:ASN:ND2	1:J:135:GLU:OE1	1.75	1.17
1:N:8:MET:CE	1:O:134:LYS:HB3	1.72	1.17
1:A:50:LEU:HB2	1:B:129:LYS:N	1.60	1.17
1:C:151:MET:O	1:D:91:GLN:HG3	1.41	1.17
1:H:8:MET:CE	1:I:134:LYS:HB3	1.72	1.17
1:I:49:GLU:CG	1:J:131:VAL:HG22	1.74	1.17
1:K:8:MET:CE	1:L:134:LYS:HB3	1.72	1.17
1:A:12:GLY:HA3	1:K:68:THR:CG2	1.65	1.17
1:C:49:GLU:CG	1:D:131:VAL:HG22	1.74	1.17
1:J:8:MET:CG	1:K:134:LYS:HD3	1.75	1.17
1:Q:5:ASN:N	1:R:87:MET:HE2	1.59	1.17
1:B:8:MET:CE	1:C:134:LYS:HB3	1.72	1.17
1:D:8:MET:CG	1:E:134:LYS:HD3	1.75	1.17
1:J:151:MET:O	1:K:91:GLN:HG3	1.44	1.17
1:O:114:ASN:ND2	1:P:135:GLU:OE1	1.75	1.17
1:D:151:MET:O	1:E:91:GLN:CB	1.93	1.17
1:G:49:GLU:CD	1:H:131:VAL:HG23	1.69	1.17
1:K:151:MET:O	1:L:91:GLN:CD	1.88	1.17
1:N:48:GLY:O	1:O:129:LYS:HG2	1.31	1.17
1:Q:151:MET:O	1:R:91:GLN:CD	1.88	1.17
1:A:50:LEU:HB2	1:B:129:LYS:H	1.07	1.16
1:M:114:ASN:ND2	1:N:135:GLU:OE1	1.71	1.16
1:I:8:MET:SD	1:J:134:LYS:CB	2.34	1.16
1:I:12:GLY:O	1:M:66:ASP:HB2	1.44	1.16
1:P:8:MET:CG	1:Q:134:LYS:HD3	1.74	1.16
1:A:134:LYS:CD	1:F:8:MET:HB3	1.74	1.16
1:G:114:ASN:ND2	1:H:135:GLU:OE1	1.71	1.16
1:J:151:MET:O	1:K:91:GLN:CB	1.93	1.16
1:K:152:ALA:HB1	1:L:38:ARG:HH22	1.07	1.16
1:P:5:ASN:H	1:Q:87:MET:CE	1.58	1.16
1:E:151:MET:O	1:F:91:GLN:CD	1.88	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:134:LYS:CD	1:L:8:MET:HB3	1.76	1.16
1:A:5:ASN:N	1:B:87:MET:HE2	1.59	1.16
1:B:13:ALA:H	1:L:68:THR:HA	1.10	1.16
1:D:48:GLY:O	1:E:129:LYS:HG2	1.28	1.16
1:E:5:ASN:N	1:F:87:MET:HE2	1.59	1.16
1:P:151:MET:O	1:Q:91:GLN:HG3	1.44	1.16
1:C:8:MET:CE	1:D:134:LYS:HB3	1.75	1.15
1:E:48:GLY:O	1:F:129:LYS:HG2	1.29	1.15
1:C:12:GLY:C	1:G:67:TRP:CE3	2.25	1.15
1:D:5:ASN:H	1:E:87:MET:CE	1.58	1.15
1:I:8:MET:CE	1:J:134:LYS:HB3	1.75	1.15
1:M:134:LYS:CD	1:R:8:MET:HB3	1.76	1.15
1:M:148:ARG:CG	1:N:93:GLN:HE22	1.58	1.15
1:O:8:MET:SD	1:P:134:LYS:CB	2.34	1.15
1:A:152:ALA:HB1	1:B:38:ARG:NH2	1.61	1.15
1:I:8:MET:SD	1:J:134:LYS:CD	2.35	1.15
1:J:111:ARG:NH2	1:N:66:ASP:CG	1.84	1.15
1:K:5:ASN:N	1:L:87:MET:HE2	1.59	1.15
1:O:8:MET:SD	1:P:134:LYS:CD	2.35	1.15
1:A:152:ALA:CB	1:B:38:ARG:HH22	1.60	1.15
1:G:148:ARG:CG	1:H:93:GLN:HE22	1.58	1.15
1:M:89:GLY:N	1:R:4:PRO:HG3	1.62	1.15
1:N:152:ALA:HB1	1:O:38:ARG:HH22	1.05	1.15
1:B:8:MET:SD	1:C:134:LYS:CD	2.35	1.15
1:C:8:MET:SD	1:D:134:LYS:CB	2.34	1.15
1:C:12:GLY:O	1:G:66:ASP:HB2	1.47	1.15
1:D:152:ALA:CB	1:E:38:ARG:HH22	1.60	1.15
1:G:89:GLY:N	1:L:4:PRO:HG3	1.62	1.15
1:J:5:ASN:H	1:K:87:MET:CE	1.58	1.15
1:P:151:MET:O	1:Q:91:GLN:CB	1.93	1.15
1:H:8:MET:SD	1:I:134:LYS:CD	2.35	1.14
1:J:113:PRO:HB3	1:N:66:ASP:OD1	1.47	1.14
1:N:8:MET:SD	1:O:134:LYS:CD	2.35	1.14
1:O:8:MET:CE	1:P:134:LYS:HB3	1.74	1.14
1:C:8:MET:SD	1:D:134:LYS:CD	2.35	1.14
1:E:50:LEU:HD23	1:F:128:GLY:HA3	1.14	1.14
1:B:111:ARG:NH2	1:L:66:ASP:CA	2.03	1.14
1:J:152:ALA:CB	1:K:38:ARG:HH22	1.60	1.14
1:B:48:GLY:O	1:C:129:LYS:HG3	1.47	1.14
1:D:111:ARG:NH2	1:H:66:ASP:CA	2.01	1.14
1:E:8:MET:SD	1:F:134:LYS:HB3	1.88	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:8:MET:SD	1:R:134:LYS:CD	2.36	1.14
1:D:152:ALA:HB1	1:E:38:ARG:NH2	1.63	1.14
1:G:49:GLU:CG	1:H:131:VAL:HG22	1.77	1.13
1:K:8:MET:SD	1:L:134:LYS:CD	2.36	1.13
1:M:87:MET:CE	1:R:5:ASN:O	1.95	1.13
1:N:49:GLU:CG	1:O:131:VAL:HG22	1.78	1.13
1:Q:8:MET:SD	1:R:134:LYS:HB3	1.88	1.13
1:A:114:ASN:ND2	1:B:135:GLU:OE1	1.64	1.13
1:B:49:GLU:CG	1:C:131:VAL:HG22	1.78	1.13
1:H:49:GLU:CG	1:I:131:VAL:HG22	1.78	1.13
1:H:50:LEU:HD23	1:I:128:GLY:HA3	1.13	1.13
1:N:50:LEU:HD23	1:O:128:GLY:HA3	1.13	1.13
1:O:5:ASN:H	1:P:87:MET:HE2	0.99	1.13
1:Q:48:GLY:O	1:R:129:LYS:HG3	1.47	1.13
1:A:52:ALA:HB2	1:B:127:ILE:H	1.11	1.13
1:G:52:ALA:CB	1:H:127:ILE:H	1.61	1.13
1:H:113:PRO:HB3	1:R:66:ASP:OD1	1.46	1.13
1:I:5:ASN:H	1:J:87:MET:HE2	0.99	1.13
1:I:152:ALA:HB1	1:J:38:ARG:HH22	0.96	1.13
1:J:8:MET:HE2	1:K:134:LYS:HB3	1.30	1.13
1:P:152:ALA:CB	1:Q:38:ARG:HH22	1.60	1.13
1:B:152:ALA:HB1	1:C:38:ARG:HH22	1.05	1.13
1:C:49:GLU:CD	1:D:131:VAL:HG23	1.70	1.13
1:D:148:ARG:CZ	1:E:97:LEU:HD13	1.79	1.13
1:G:87:MET:CE	1:L:5:ASN:O	1.95	1.13
1:H:151:MET:O	1:I:91:GLN:HG3	1.44	1.13
1:N:5:ASN:H	1:O:87:MET:CE	1.62	1.13
1:D:48:GLY:O	1:E:129:LYS:HG3	1.42	1.12
1:K:50:LEU:HD23	1:L:128:GLY:HA3	1.14	1.13
1:M:49:GLU:CG	1:N:131:VAL:HG22	1.77	1.12
1:M:52:ALA:CB	1:N:127:ILE:H	1.60	1.12
1:N:151:MET:O	1:O:91:GLN:HG3	1.44	1.12
1:P:148:ARG:CG	1:Q:93:GLN:HE22	1.61	1.13
1:P:152:ALA:HB1	1:Q:38:ARG:NH2	1.63	1.12
1:C:48:GLY:O	1:D:129:LYS:HG2	1.33	1.12
1:E:8:MET:SD	1:F:134:LYS:CD	2.36	1.12
1:J:4:PRO:HD3	1:K:88:PRO:O	1.45	1.12
1:K:8:MET:SD	1:L:134:LYS:HB3	1.88	1.12
1:P:4:PRO:HD3	1:Q:88:PRO:O	1.45	1.12
1:Q:151:MET:O	1:R:91:GLN:HG3	1.46	1.12
1:A:5:ASN:H	1:B:87:MET:HE2	0.98	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:5:ASN:H	1:C:87:MET:CE	1.62	1.12
1:C:15:THR:O	1:G:67:TRP:CZ2	2.01	1.12
1:M:50:LEU:HB2	1:N:129:LYS:H	1.11	1.12
1:A:128:GLY:HA3	1:F:50:LEU:HD23	1.22	1.12
1:B:50:LEU:HD23	1:C:128:GLY:HA3	1.13	1.12
1:D:148:ARG:CG	1:E:93:GLN:HE22	1.61	1.12
1:G:50:LEU:HB2	1:H:129:LYS:H	1.11	1.12
1:G:151:MET:O	1:H:91:GLN:HG3	1.46	1.12
1:G:152:ALA:HB1	1:H:38:ARG:NH2	1.64	1.12
1:J:148:ARG:CZ	1:K:97:LEU:HD13	1.79	1.12
1:H:13:ALA:H	1:R:68:THR:HA	1.12	1.11
1:M:5:ASN:H	1:N:87:MET:HE2	0.97	1.11
1:M:50:LEU:HB2	1:N:129:LYS:N	1.65	1.11
1:M:129:LYS:H	1:R:50:LEU:HB2	1.11	1.11
1:O:48:GLY:O	1:P:129:LYS:HG3	1.45	1.11
1:B:48:GLY:O	1:C:129:LYS:HG2	1.31	1.11
1:D:12:GLY:HA3	1:H:68:THR:CG2	1.79	1.11
1:J:4:PRO:HB3	1:K:88:PRO:O	1.50	1.11
1:J:152:ALA:HB1	1:K:38:ARG:NH2	1.63	1.11
1:M:131:VAL:CG2	1:R:49:GLU:CD	2.24	1.11
1:Q:49:GLU:CG	1:R:131:VAL:HG22	1.80	1.11
1:Q:50:LEU:HD23	1:R:128:GLY:HA3	1.14	1.11
1:A:129:LYS:H	1:F:50:LEU:HB2	1.13	1.11
1:A:151:MET:O	1:B:91:GLN:HG3	1.50	1.11
1:B:113:PRO:HB3	1:L:66:ASP:OD1	1.47	1.11
1:C:5:ASN:H	1:D:87:MET:CE	1.62	1.11
1:E:155:ARG:NE	1:F:91:GLN:HE22	1.49	1.11
1:G:128:GLY:HA3	1:L:50:LEU:HD23	1.15	1.11
1:G:152:ALA:CB	1:H:38:ARG:HH22	1.64	1.11
1:I:48:GLY:O	1:J:129:LYS:HG3	1.45	1.11
1:J:48:GLY:O	1:K:129:LYS:HG3	1.42	1.11
1:K:5:ASN:H	1:L:87:MET:CE	1.64	1.11
1:M:4:PRO:HB3	1:N:88:PRO:O	1.51	1.11
1:P:4:PRO:HB3	1:Q:88:PRO:O	1.50	1.11
1:A:4:PRO:HD3	1:B:88:PRO:O	1.47	1.11
1:C:151:MET:O	1:D:91:GLN:CB	1.99	1.11
1:D:4:PRO:HD3	1:E:88:PRO:O	1.45	1.11
1:E:49:GLU:CG	1:F:131:VAL:HG22	1.80	1.11
1:H:151:MET:O	1:I:91:GLN:CB	1.99	1.11
1:M:91:GLN:HB2	1:R:152:ALA:CB	1.80	1.11
1:O:151:MET:O	1:P:91:GLN:CB	1.99	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:155:ARG:NE	1:R:91:GLN:HE22	1.49	1.11
1:A:91:GLN:HB2	1:F:152:ALA:HB2	1.11	1.11
1:G:129:LYS:H	1:L:50:LEU:HB2	1.11	1.11
1:H:5:ASN:H	1:I:87:MET:HE2	1.04	1.11
1:H:48:GLY:O	1:I:129:LYS:HG3	1.48	1.11
1:K:113:PRO:HB3	1:O:66:ASP:OD1	1.50	1.11
1:K:151:MET:O	1:L:91:GLN:HG3	1.46	1.11
1:M:49:GLU:CD	1:N:131:VAL:HG23	1.69	1.11
1:M:89:GLY:HA3	1:R:4:PRO:HG2	1.21	1.11
1:M:152:ALA:CB	1:N:38:ARG:HH22	1.64	1.11
1:N:151:MET:O	1:O:91:GLN:CB	1.99	1.11
1:P:148:ARG:CZ	1:Q:97:LEU:HD13	1.79	1.11
1:Q:5:ASN:H	1:R:87:MET:CE	1.64	1.11
1:A:91:GLN:HB2	1:F:152:ALA:CB	1.81	1.10
1:C:148:ARG:CG	1:D:93:GLN:HE22	1.64	1.10
1:E:113:PRO:HB3	1:I:66:ASP:OD1	1.51	1.10
1:G:4:PRO:HB3	1:H:88:PRO:O	1.51	1.10
1:G:131:VAL:CG2	1:L:49:GLU:CD	2.24	1.10
1:H:5:ASN:H	1:I:87:MET:CE	1.62	1.10
1:I:5:ASN:H	1:J:87:MET:CE	1.62	1.10
1:I:148:ARG:CG	1:J:93:GLN:HE22	1.64	1.10
1:J:148:ARG:CG	1:K:93:GLN:HE22	1.61	1.10
1:K:12:GLY:HA3	1:O:68:THR:CG2	1.80	1.10
1:K:49:GLU:CG	1:L:131:VAL:HG22	1.80	1.10
1:N:49:GLU:CD	1:O:131:VAL:HG23	1.73	1.10
1:N:114:ASN:ND2	1:O:135:GLU:OE1	1.82	1.10
1:B:8:MET:SD	1:C:134:LYS:HB3	1.90	1.10
1:D:49:GLU:CD	1:E:131:VAL:HG23	1.72	1.10
1:G:91:GLN:HB2	1:L:152:ALA:CB	1.80	1.10
1:G:111:ARG:HH22	1:Q:66:ASP:N	1.49	1.10
1:H:12:GLY:HA3	1:R:68:THR:CG2	1.80	1.10
1:K:48:GLY:O	1:L:129:LYS:HG3	1.47	1.10
1:O:5:ASN:H	1:P:87:MET:CE	1.62	1.10
1:O:49:GLU:CD	1:P:131:VAL:HG23	1.70	1.10
1:B:111:ARG:NH2	1:L:66:ASP:CG	1.91	1.10
1:C:4:PRO:HD3	1:D:88:PRO:O	1.49	1.10
1:I:4:PRO:HB3	1:J:88:PRO:C	1.76	1.10
1:I:4:PRO:HD3	1:J:88:PRO:O	1.49	1.10
1:I:151:MET:O	1:J:91:GLN:CB	1.98	1.10
1:M:151:MET:O	1:N:91:GLN:HG3	1.46	1.10
1:O:148:ARG:CG	1:P:93:GLN:HE22	1.64	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:151:MET:O	1:R:91:GLN:CG	0.81	1.10
1:A:91:GLN:CB	1:F:152:ALA:HB2	1.81	1.10
1:E:5:ASN:O	1:F:87:MET:HE2	1.52	1.10
1:E:5:ASN:H	1:F:87:MET:CE	1.64	1.10
1:E:114:ASN:ND2	1:F:135:GLU:OE1	1.82	1.10
1:E:151:MET:O	1:F:91:GLN:CG	0.81	1.10
1:G:5:ASN:H	1:H:87:MET:HE2	0.96	1.10
1:H:114:ASN:ND2	1:I:135:GLU:OE1	1.82	1.10
1:I:48:GLY:O	1:J:129:LYS:HG2	1.33	1.10
1:J:8:MET:SD	1:K:134:LYS:HD2	1.92	1.10
1:K:151:MET:O	1:L:91:GLN:CG	0.81	1.10
1:N:5:ASN:H	1:O:87:MET:HE2	1.04	1.10
1:P:8:MET:SD	1:Q:134:LYS:HD2	1.92	1.10
1:P:48:GLY:O	1:Q:129:LYS:HG3	1.42	1.10
1:Q:152:ALA:HB1	1:R:38:ARG:HH22	1.07	1.10
1:B:8:MET:CG	1:C:134:LYS:HD3	1.82	1.10
1:B:151:MET:O	1:C:91:GLN:HG3	1.44	1.10
1:C:4:PRO:HB3	1:D:88:PRO:C	1.76	1.10
1:D:4:PRO:HB3	1:E:88:PRO:O	1.50	1.10
1:M:152:ALA:HB1	1:N:38:ARG:NH2	1.64	1.10
1:N:8:MET:CG	1:O:134:LYS:HD3	1.82	1.10
1:P:49:GLU:CG	1:Q:131:VAL:HG22	1.81	1.10
1:C:152:ALA:HB1	1:D:38:ARG:HH22	0.96	1.09
1:D:49:GLU:CG	1:E:131:VAL:HG22	1.81	1.09
1:E:12:GLY:HA3	1:I:68:THR:CG2	1.80	1.09
1:F:113:PRO:HB3	1:J:66:ASP:OD1	1.51	1.09
1:H:12:GLY:HA3	1:R:68:THR:HG23	1.11	1.09
1:J:49:GLU:CG	1:K:131:VAL:HG22	1.81	1.09
1:K:5:ASN:O	1:L:87:MET:HE2	1.52	1.09
1:K:155:ARG:NE	1:L:91:GLN:HE22	1.49	1.09
1:B:151:MET:O	1:C:91:GLN:CB	1.99	1.09
1:D:113:PRO:HB3	1:H:66:ASP:OD1	1.51	1.09
1:G:50:LEU:HB2	1:H:129:LYS:N	1.65	1.09
1:J:50:LEU:HB2	1:K:129:LYS:H	1.16	1.09
1:O:50:LEU:HD23	1:P:128:GLY:HA3	1.11	1.09
1:A:89:GLY:HA3	1:F:4:PRO:HG2	1.17	1.09
1:H:155:ARG:NE	1:I:91:GLN:HE22	1.51	1.09
1:E:151:MET:O	1:F:91:GLN:HG3	1.46	1.09
1:G:4:PRO:HD3	1:H:88:PRO:O	1.48	1.09
1:H:8:MET:CG	1:I:134:LYS:HD3	1.82	1.09
1:J:12:GLY:HA3	1:N:68:THR:CG2	1.80	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:8:MET:CG	1:L:134:LYS:HD3	1.83	1.09
1:O:4:PRO:HD3	1:P:88:PRO:O	1.49	1.09
1:P:50:LEU:HB2	1:Q:129:LYS:H	1.16	1.09
1:Q:8:MET:CG	1:R:134:LYS:HD3	1.83	1.09
1:Q:48:GLY:O	1:R:129:LYS:HG2	1.29	1.09
1:G:87:MET:HE2	1:L:5:ASN:H	1.16	1.09
1:J:48:GLY:O	1:K:129:LYS:HG2	1.28	1.09
1:J:111:ARG:HH22	1:N:66:ASP:N	1.50	1.09
1:Q:5:ASN:O	1:R:87:MET:HE2	1.52	1.09
1:B:5:ASN:H	1:C:87:MET:HE2	1.04	1.08
1:C:8:MET:CG	1:D:134:LYS:HD3	1.84	1.08
1:C:50:LEU:HD23	1:D:128:GLY:HA3	1.11	1.08
1:D:4:PRO:HB3	1:E:88:PRO:C	1.77	1.08
1:D:50:LEU:HB2	1:E:129:LYS:H	1.16	1.08
1:E:111:ARG:NH2	1:I:66:ASP:CA	2.08	1.08
1:J:4:PRO:HB3	1:K:88:PRO:C	1.77	1.08
1:J:114:ASN:ND2	1:K:135:GLU:OE1	1.84	1.08
1:L:113:PRO:HB3	1:P:66:ASP:OD1	1.52	1.08
1:M:5:ASN:H	1:N:87:MET:CE	1.64	1.08
1:M:131:VAL:HG23	1:R:49:GLU:OE1	1.53	1.08
1:B:114:ASN:ND2	1:C:135:GLU:OE1	1.82	1.08
1:D:8:MET:SD	1:E:134:LYS:HD2	1.92	1.08
1:E:8:MET:CG	1:F:134:LYS:HD3	1.83	1.08
1:E:12:GLY:HA3	1:I:68:THR:HG23	1.12	1.08
1:E:152:ALA:HB1	1:F:38:ARG:HH22	1.07	1.08
1:G:8:MET:SD	1:H:134:LYS:CB	2.41	1.08
1:I:15:THR:O	1:M:67:TRP:CZ2	2.04	1.08
1:O:8:MET:CG	1:P:134:LYS:HD3	1.83	1.08
1:A:91:GLN:HE22	1:F:155:ARG:NE	1.49	1.08
1:B:155:ARG:NE	1:C:91:GLN:HE22	1.51	1.08
1:C:48:GLY:O	1:D:129:LYS:HG3	1.46	1.08
1:G:5:ASN:H	1:H:87:MET:CE	1.64	1.08
1:J:5:ASN:H	1:K:87:MET:HE2	0.96	1.08
1:K:151:MET:O	1:L:91:GLN:CB	2.01	1.08
1:M:8:MET:SD	1:N:134:LYS:CB	2.41	1.08
1:O:4:PRO:HB3	1:P:88:PRO:C	1.76	1.08
1:Q:151:MET:O	1:R:91:GLN:CB	2.01	1.08
1:A:148:ARG:HG2	1:B:93:GLN:HE22	1.17	1.08
1:D:8:MET:HE2	1:E:134:LYS:HB3	1.30	1.08
1:D:152:ALA:HB1	1:E:38:ARG:HH22	0.92	1.08
1:G:91:GLN:CB	1:L:152:ALA:HB2	1.83	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:8:MET:SD	1:I:134:LYS:HB3	1.90	1.08
1:I:50:LEU:HD23	1:J:128:GLY:HA3	1.11	1.08
1:P:4:PRO:HB3	1:Q:88:PRO:C	1.77	1.08
1:P:48:GLY:O	1:Q:129:LYS:HG2	1.28	1.08
1:B:151:MET:O	1:C:91:GLN:CG	0.78	1.08
1:J:13:ALA:H	1:N:68:THR:HA	1.07	1.08
1:L:12:GLY:HA3	1:P:68:THR:CG2	1.83	1.08
1:A:89:GLY:HA2	1:F:4:PRO:HG3	1.35	1.07
1:G:8:MET:CE	1:H:134:LYS:HB3	1.83	1.07
1:G:131:VAL:HG23	1:L:49:GLU:OE1	1.53	1.07
1:H:49:GLU:CD	1:I:131:VAL:HG23	1.73	1.07
1:J:111:ARG:NH2	1:N:66:ASP:CA	1.98	1.07
1:O:152:ALA:HB1	1:P:38:ARG:HH22	0.97	1.07
1:P:114:ASN:ND2	1:Q:135:GLU:OE1	1.84	1.07
1:P:152:ALA:HB1	1:Q:38:ARG:HH22	0.92	1.07
1:H:151:MET:O	1:I:91:GLN:CG	0.78	1.07
1:K:13:ALA:H	1:O:68:THR:HA	1.12	1.07
1:K:49:GLU:CD	1:L:131:VAL:HG23	1.76	1.07
1:M:8:MET:CE	1:N:134:LYS:HB3	1.83	1.07
1:N:151:MET:O	1:O:91:GLN:CG	0.78	1.07
1:O:4:PRO:HB3	1:P:88:PRO:O	1.47	1.07
1:O:49:GLU:HG3	1:P:131:VAL:HG22	1.33	1.07
1:A:50:LEU:HD23	1:B:128:GLY:CA	1.83	1.07
1:A:111:ARG:HH22	1:K:66:ASP:N	1.50	1.07
1:A:151:MET:O	1:B:91:GLN:CG	0.78	1.07
1:D:13:ALA:H	1:H:68:THR:HA	1.08	1.07
1:E:151:MET:O	1:F:91:GLN:CB	2.01	1.07
1:G:52:ALA:HB2	1:H:127:ILE:H	1.16	1.07
1:H:4:PRO:HG2	1:I:89:GLY:HA3	1.37	1.07
1:I:8:MET:CG	1:J:134:LYS:HD3	1.83	1.07
1:K:114:ASN:ND2	1:L:135:GLU:OE1	1.82	1.07
1:M:8:MET:SD	1:N:134:LYS:CD	2.43	1.07
1:M:91:GLN:CB	1:R:152:ALA:HB2	1.83	1.07
1:P:5:ASN:H	1:Q:87:MET:HE2	0.96	1.07
1:D:52:ALA:CB	1:E:127:ILE:H	1.68	1.07
1:K:12:GLY:HA3	1:O:68:THR:HG23	1.10	1.07
1:N:4:PRO:HG2	1:O:89:GLY:HA3	1.37	1.07
1:P:8:MET:HE2	1:Q:134:LYS:HB3	1.30	1.07
1:P:48:GLY:C	1:Q:129:LYS:HG3	1.79	1.07
1:P:49:GLU:CD	1:Q:131:VAL:HG23	1.72	1.07
1:A:49:GLU:HG3	1:B:131:VAL:HG22	1.31	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:111:ARG:HH22	1:L:66:ASP:N	1.52	1.07
1:E:4:PRO:HG2	1:F:89:GLY:HA3	1.36	1.07
1:F:12:GLY:HA3	1:J:68:THR:CG2	1.84	1.07
1:H:111:ARG:NH2	1:R:66:ASP:CG	1.92	1.07
1:N:8:MET:SD	1:O:134:LYS:HB3	1.90	1.07
1:N:155:ARG:NE	1:O:91:GLN:HE22	1.51	1.07
1:Q:49:GLU:HG3	1:R:131:VAL:HG22	1.37	1.07
1:D:111:ARG:HH22	1:H:66:ASP:N	1.51	1.06
1:I:4:PRO:HB3	1:J:88:PRO:O	1.47	1.06
1:J:52:ALA:CB	1:K:127:ILE:H	1.68	1.06
1:N:48:GLY:O	1:O:129:LYS:HG3	1.47	1.06
1:Q:114:ASN:ND2	1:R:135:GLU:OE1	1.82	1.06
1:O:152:ALA:HB1	1:P:38:ARG:NH2	1.71	1.06
1:A:134:LYS:HB3	1:F:8:MET:CE	1.85	1.06
1:B:49:GLU:HG3	1:C:131:VAL:HG22	1.37	1.06
1:C:4:PRO:HB3	1:D:88:PRO:O	1.47	1.06
1:C:49:GLU:HG3	1:D:131:VAL:HG22	1.33	1.06
1:H:111:ARG:NH2	1:R:66:ASP:CA	2.04	1.06
1:I:8:MET:HE2	1:J:134:LYS:HB3	1.35	1.06
1:J:48:GLY:C	1:K:129:LYS:HG3	1.79	1.06
1:L:12:GLY:HA3	1:P:68:THR:HG23	1.10	1.06
1:L:13:ALA:H	1:P:68:THR:HA	1.13	1.06
1:M:151:MET:O	1:N:91:GLN:CG	0.76	1.06
1:P:52:ALA:CB	1:Q:127:ILE:H	1.68	1.06
1:G:8:MET:SD	1:H:134:LYS:CD	2.43	1.06
1:G:151:MET:O	1:H:91:GLN:CG	0.76	1.06
1:M:128:GLY:HA3	1:R:50:LEU:HD23	1.15	1.06
1:O:8:MET:HE2	1:P:134:LYS:HB3	1.35	1.06
1:C:8:MET:HE2	1:D:134:LYS:HB3	1.35	1.06
1:C:152:ALA:HB1	1:D:38:ARG:NH2	1.70	1.06
1:D:48:GLY:C	1:E:129:LYS:HG3	1.79	1.06
1:E:5:ASN:H	1:F:87:MET:HE2	1.07	1.06
1:E:48:GLY:O	1:F:129:LYS:HG3	1.47	1.06
1:H:8:MET:HE2	1:I:134:LYS:HB3	1.37	1.06
1:I:152:ALA:CB	1:J:38:ARG:HH22	1.69	1.06
1:M:4:PRO:HD3	1:N:88:PRO:O	1.48	1.06
1:O:152:ALA:CB	1:P:38:ARG:HH22	1.69	1.06
1:A:50:LEU:CB	1:B:129:LYS:H	1.68	1.05
1:A:111:ARG:NH2	1:K:66:ASP:CA	2.11	1.05
1:D:50:LEU:HB2	1:E:129:LYS:N	1.71	1.05
1:M:152:ALA:HB1	1:N:38:ARG:HH22	0.93	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:52:ALA:HB2	1:Q:127:ILE:H	1.19	1.05
1:C:152:ALA:CB	1:D:38:ARG:HH22	1.69	1.05
1:D:50:LEU:HD23	1:E:128:GLY:HA3	1.06	1.05
1:O:8:MET:SD	1:P:134:LYS:HD2	1.97	1.05
1:A:152:ALA:HB1	1:B:38:ARG:HH22	0.92	1.05
1:C:5:ASN:H	1:D:87:MET:HE2	0.99	1.05
1:C:148:ARG:CZ	1:D:97:LEU:HD13	1.86	1.05
1:D:114:ASN:ND2	1:E:135:GLU:OE1	1.84	1.05
1:G:88:PRO:O	1:L:4:PRO:HD3	1.57	1.05
1:G:88:PRO:C	1:L:4:PRO:CB	2.21	1.05
1:H:148:ARG:CZ	1:I:97:LEU:HD13	1.87	1.05
1:J:49:GLU:CD	1:K:131:VAL:HG23	1.72	1.05
1:M:4:PRO:HB3	1:N:88:PRO:C	1.82	1.05
1:M:88:PRO:C	1:R:4:PRO:CB	2.21	1.05
1:M:91:GLN:HB2	1:R:152:ALA:HB2	1.09	1.05
1:E:8:MET:HE2	1:F:134:LYS:HB3	1.38	1.05
1:F:12:GLY:HA3	1:J:68:THR:HG23	1.11	1.05
1:I:49:GLU:CD	1:J:131:VAL:HG23	1.70	1.05
1:J:50:LEU:HB2	1:K:129:LYS:N	1.71	1.05
1:N:5:ASN:O	1:O:87:MET:HE2	1.54	1.05
1:Q:4:PRO:HG2	1:R:89:GLY:HA3	1.36	1.05
1:Q:8:MET:HE2	1:R:134:LYS:HB3	1.38	1.05
1:A:50:LEU:CB	1:B:129:LYS:N	2.19	1.05
1:A:148:ARG:CZ	1:B:97:LEU:HD13	1.86	1.05
1:G:152:ALA:HB1	1:H:38:ARG:HH22	0.93	1.05
1:I:148:ARG:CZ	1:J:97:LEU:HD13	1.86	1.05
1:M:88:PRO:HG2	1:R:3:VAL:CG1	1.87	1.05
1:A:87:MET:HE2	1:F:5:ASN:C	1.82	1.04
1:A:88:PRO:HG2	1:F:3:VAL:HG12	1.36	1.04
1:B:12:GLY:HA3	1:L:68:THR:CG2	1.78	1.04
1:G:88:PRO:HG2	1:L:3:VAL:CG1	1.87	1.04
1:G:89:GLY:HA2	1:L:4:PRO:HG3	1.39	1.04
1:G:91:GLN:HB2	1:L:152:ALA:HB2	1.09	1.04
1:G:151:MET:O	1:H:91:GLN:CB	2.05	1.04
1:L:111:ARG:NH2	1:P:66:ASP:CA	2.04	1.04
1:O:148:ARG:CZ	1:P:97:LEU:HD13	1.86	1.04
1:Q:155:ARG:CD	1:R:91:GLN:HE22	1.70	1.04
1:B:49:GLU:CD	1:C:131:VAL:HG23	1.73	1.04
1:E:13:ALA:H	1:I:68:THR:HA	1.14	1.04
1:G:49:GLU:HG3	1:H:131:VAL:HG22	1.36	1.04
1:G:111:ARG:NH2	1:Q:66:ASP:CA	2.06	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:50:LEU:HD23	1:K:128:GLY:HA3	1.06	1.04
1:K:155:ARG:CD	1:L:91:GLN:HE22	1.70	1.04
1:A:131:VAL:CG2	1:F:49:GLU:CD	2.29	1.04
1:B:5:ASN:O	1:C:87:MET:HE2	1.54	1.04
1:B:12:GLY:HA3	1:L:68:THR:HG23	1.09	1.04
1:C:8:MET:SD	1:D:134:LYS:HD2	1.96	1.04
1:I:8:MET:SD	1:J:134:LYS:HD2	1.97	1.04
1:I:52:ALA:CB	1:J:127:ILE:H	1.71	1.04
1:J:152:ALA:HB1	1:K:38:ARG:HH22	0.92	1.04
1:K:5:ASN:H	1:L:87:MET:HE2	1.07	1.04
1:M:88:PRO:O	1:R:4:PRO:HD3	1.57	1.04
1:A:8:MET:CE	1:B:134:LYS:HB3	1.88	1.04
1:G:4:PRO:HA	1:H:87:MET:HE3	1.40	1.04
1:J:12:GLY:HA3	1:N:68:THR:HG23	1.07	1.04
1:K:49:GLU:HG3	1:L:131:VAL:HG22	1.37	1.04
1:M:89:GLY:HA2	1:R:4:PRO:HG3	1.40	1.04
1:M:151:MET:O	1:N:91:GLN:CB	2.06	1.04
1:G:129:LYS:N	1:L:50:LEU:HB2	1.72	1.04
1:I:152:ALA:HB1	1:J:38:ARG:NH2	1.71	1.04
1:J:12:GLY:C	1:N:67:TRP:HE3	1.49	1.04
1:M:4:PRO:HA	1:N:87:MET:HE3	1.40	1.04
1:M:50:LEU:HD23	1:N:128:GLY:HA3	1.04	1.04
1:N:148:ARG:CZ	1:O:97:LEU:HD13	1.87	1.04
1:P:4:PRO:HG3	1:Q:89:GLY:N	1.72	1.04
1:A:5:ASN:H	1:B:87:MET:CE	1.69	1.03
1:B:8:MET:HE2	1:C:134:LYS:HB3	1.37	1.03
1:H:5:ASN:O	1:I:87:MET:HE2	1.54	1.03
1:H:111:ARG:HH22	1:R:66:ASP:N	1.54	1.03
1:M:134:LYS:HB3	1:R:8:MET:CE	1.87	1.03
1:P:8:MET:CE	1:Q:134:LYS:CB	2.36	1.03
1:P:50:LEU:HB2	1:Q:129:LYS:N	1.72	1.03
1:D:12:GLY:HA3	1:H:68:THR:HG23	1.07	1.03
1:E:155:ARG:CD	1:F:91:GLN:HE22	1.70	1.03
1:G:88:PRO:O	1:L:4:PRO:HB3	1.41	1.03
1:G:88:PRO:HG2	1:L:3:VAL:HG12	1.37	1.03
1:K:5:ASN:O	1:L:87:MET:CE	2.06	1.03
1:M:49:GLU:HG3	1:N:131:VAL:HG22	1.36	1.03
1:Q:48:GLY:C	1:R:129:LYS:HG3	1.83	1.03
1:F:13:ALA:H	1:J:68:THR:HA	1.14	1.03
1:G:4:PRO:HB3	1:H:88:PRO:C	1.82	1.03
1:G:50:LEU:HD23	1:H:128:GLY:HA3	1.04	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:134:LYS:HB3	1:L:8:MET:CE	1.87	1.03
1:H:5:ASN:O	1:I:87:MET:CE	2.07	1.03
1:M:148:ARG:CZ	1:N:97:LEU:HD13	1.88	1.03
1:N:8:MET:HE2	1:O:134:LYS:HB3	1.37	1.03
1:N:49:GLU:HG3	1:O:131:VAL:HG22	1.37	1.03
1:A:4:PRO:HB3	1:B:88:PRO:O	1.54	1.03
1:A:8:MET:SD	1:B:134:LYS:CD	2.47	1.03
1:B:148:ARG:CZ	1:C:97:LEU:HD13	1.87	1.03
1:D:4:PRO:HG3	1:E:89:GLY:N	1.72	1.03
1:D:8:MET:CE	1:E:134:LYS:CB	2.36	1.03
1:D:148:ARG:NE	1:E:97:LEU:HD13	1.74	1.03
1:G:131:VAL:HG22	1:L:49:GLU:HG3	1.41	1.03
1:J:4:PRO:HG3	1:K:89:GLY:N	1.72	1.03
1:J:52:ALA:HB2	1:K:127:ILE:H	1.19	1.03
1:O:52:ALA:CB	1:P:127:ILE:H	1.71	1.03
1:A:91:GLN:NE2	1:F:155:ARG:CD	2.22	1.03
1:B:5:ASN:O	1:C:87:MET:CE	2.07	1.03
1:M:52:ALA:HB2	1:N:127:ILE:H	1.15	1.03
1:M:129:LYS:N	1:R:50:LEU:HB2	1.71	1.03
1:M:148:ARG:HG2	1:N:93:GLN:HE22	1.21	1.03
1:N:148:ARG:CG	1:O:93:GLN:HE22	1.72	1.03
1:A:87:MET:HE2	1:F:5:ASN:H	1.20	1.02
1:B:48:GLY:C	1:C:129:LYS:HG3	1.84	1.02
1:C:52:ALA:CB	1:D:127:ILE:H	1.71	1.02
1:D:8:MET:SD	1:E:134:LYS:HB3	1.94	1.02
1:I:49:GLU:HG3	1:J:131:VAL:HG22	1.33	1.02
1:N:5:ASN:O	1:O:87:MET:CE	2.07	1.02
1:P:49:GLU:HG3	1:Q:131:VAL:HG22	1.41	1.02
1:P:50:LEU:HD23	1:Q:128:GLY:HA3	1.06	1.02
1:Q:5:ASN:O	1:R:87:MET:CE	2.06	1.02
1:Q:148:ARG:CZ	1:R:97:LEU:HD13	1.89	1.02
1:A:151:MET:O	1:B:91:GLN:CB	2.06	1.02
1:C:4:PRO:HA	1:D:87:MET:HE3	1.41	1.02
1:E:49:GLU:CD	1:F:131:VAL:HG23	1.76	1.02
1:G:8:MET:CG	1:H:134:LYS:HD3	1.89	1.02
1:I:50:LEU:HB2	1:J:129:LYS:H	1.24	1.02
1:K:8:MET:HE2	1:L:134:LYS:HB3	1.38	1.02
1:O:50:LEU:HB2	1:P:129:LYS:H	1.24	1.02
1:Q:5:ASN:H	1:R:87:MET:HE2	1.07	1.02
1:A:50:LEU:CD2	1:B:128:GLY:HA3	1.89	1.02
1:B:4:PRO:HG2	1:C:89:GLY:HA3	1.37	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:148:ARG:CG	1:I:93:GLN:HE22	1.72	1.02
1:J:8:MET:CE	1:K:134:LYS:CB	2.36	1.02
1:J:148:ARG:NE	1:K:97:LEU:HD13	1.74	1.02
1:K:52:ALA:CB	1:L:127:ILE:H	1.73	1.02
1:O:148:ARG:HG2	1:P:93:GLN:HE22	1.24	1.02
1:O:151:MET:O	1:P:91:GLN:CG	0.72	1.02
1:P:148:ARG:NE	1:Q:97:LEU:HD13	1.74	1.02
1:A:8:MET:SD	1:B:134:LYS:CB	2.47	1.02
1:A:131:VAL:HG23	1:F:49:GLU:OE1	1.57	1.02
1:A:134:LYS:HB2	1:F:8:MET:SD	1.95	1.02
1:C:50:LEU:HB2	1:D:129:LYS:H	1.24	1.02
1:D:5:ASN:H	1:E:87:MET:HE2	0.96	1.02
1:E:5:ASN:O	1:F:87:MET:CE	2.06	1.02
1:H:148:ARG:NE	1:I:97:LEU:HD13	1.75	1.02
1:H:155:ARG:CD	1:I:91:GLN:HE22	1.71	1.02
1:I:151:MET:O	1:J:91:GLN:CG	0.72	1.02
1:M:127:ILE:H	1:R:52:ALA:CB	1.72	1.02
1:N:52:ALA:CB	1:O:127:ILE:H	1.73	1.02
1:O:4:PRO:HG3	1:P:89:GLY:N	1.74	1.02
1:A:4:PRO:HA	1:B:87:MET:HE3	1.42	1.02
1:B:148:ARG:NE	1:C:97:LEU:HD13	1.75	1.02
1:B:155:ARG:CD	1:C:91:GLN:HE22	1.71	1.02
1:E:148:ARG:CZ	1:F:97:LEU:HD13	1.89	1.02
1:G:148:ARG:CZ	1:H:97:LEU:HD13	1.88	1.02
1:I:4:PRO:HG3	1:J:89:GLY:N	1.74	1.02
1:I:8:MET:SD	1:J:134:LYS:HB3	1.99	1.02
1:I:148:ARG:HG2	1:J:93:GLN:HE22	1.25	1.02
1:N:50:LEU:HB2	1:O:129:LYS:H	1.24	1.02
1:N:148:ARG:NE	1:O:97:LEU:HD13	1.75	1.02
1:B:148:ARG:CG	1:C:93:GLN:HE22	1.72	1.01
1:C:148:ARG:HG2	1:D:93:GLN:HE22	1.25	1.01
1:E:48:GLY:C	1:F:129:LYS:HG3	1.83	1.01
1:G:127:ILE:H	1:L:52:ALA:CB	1.72	1.01
1:I:4:PRO:HA	1:J:87:MET:HE3	1.41	1.01
1:M:8:MET:CG	1:N:134:LYS:HD3	1.89	1.01
1:N:155:ARG:CD	1:O:91:GLN:HE22	1.71	1.01
1:A:89:GLY:N	1:F:4:PRO:HG3	1.57	1.01
1:C:151:MET:O	1:D:91:GLN:CG	0.72	1.01
1:G:50:LEU:HD23	1:H:128:GLY:CA	1.89	1.01
1:K:48:GLY:C	1:L:129:LYS:HG3	1.83	1.01
1:K:148:ARG:CZ	1:L:97:LEU:HD13	1.90	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:38:ARG:HH22	1:R:152:ALA:HB1	1.25	1.01
1:Q:49:GLU:CD	1:R:131:VAL:HG23	1.76	1.01
1:C:4:PRO:HG3	1:D:89:GLY:N	1.74	1.01
1:E:52:ALA:CB	1:F:127:ILE:H	1.73	1.01
1:J:56:ASP:OD1	1:K:123:TRP:CD2	2.13	1.01
1:M:50:LEU:HD23	1:N:128:GLY:CA	1.89	1.01
1:M:87:MET:CE	1:R:5:ASN:H	1.74	1.01
1:M:131:VAL:HG22	1:R:49:GLU:HG3	1.41	1.01
1:P:8:MET:SD	1:Q:134:LYS:HB2	2.00	1.01
1:A:88:PRO:HG2	1:F:3:VAL:CG1	1.90	1.01
1:B:8:MET:SD	1:C:134:LYS:HD2	1.99	1.01
1:B:52:ALA:CB	1:C:127:ILE:H	1.73	1.01
1:D:8:MET:SD	1:E:134:LYS:HB2	2.00	1.01
1:E:49:GLU:HG3	1:F:131:VAL:HG22	1.37	1.01
1:H:48:GLY:C	1:I:129:LYS:HG3	1.84	1.01
1:M:88:PRO:O	1:R:4:PRO:HB3	1.41	1.01
1:N:8:MET:SD	1:O:134:LYS:HD2	1.99	1.01
1:Q:52:ALA:CB	1:R:127:ILE:H	1.73	1.01
1:G:50:LEU:CB	1:H:129:LYS:H	1.73	1.01
1:H:50:LEU:HB2	1:I:129:LYS:H	1.24	1.01
1:I:12:GLY:HA3	1:M:68:THR:HG23	1.01	1.01
1:K:4:PRO:HG2	1:L:89:GLY:HA3	1.36	1.01
1:K:111:ARG:NH2	1:O:66:ASP:CA	2.05	1.01
1:M:50:LEU:CB	1:N:129:LYS:H	1.73	1.01
1:M:91:GLN:HE22	1:R:155:ARG:NE	1.57	1.01
1:N:48:GLY:C	1:O:129:LYS:HG3	1.84	1.01
1:O:8:MET:SD	1:P:134:LYS:HB3	1.99	1.01
1:Q:148:ARG:CG	1:R:93:GLN:HE22	1.73	1.01
1:A:87:MET:HE2	1:F:5:ASN:N	1.76	1.00
1:A:87:MET:CE	1:F:5:ASN:H	1.73	1.00
1:G:148:ARG:HG2	1:H:93:GLN:HE22	1.21	1.00
1:K:8:MET:SD	1:L:134:LYS:HD2	2.01	1.00
1:E:8:MET:SD	1:F:134:LYS:HD2	2.01	1.00
1:G:38:ARG:HH22	1:L:152:ALA:HB1	1.25	1.00
1:H:12:GLY:O	1:R:66:ASP:CB	2.09	1.00
1:J:5:ASN:O	1:K:87:MET:HE2	1.62	1.00
1:A:4:PRO:HB3	1:B:88:PRO:C	1.86	1.00
1:D:4:PRO:HA	1:E:87:MET:HE3	1.40	1.00
1:E:50:LEU:HB2	1:F:129:LYS:H	1.23	1.00
1:G:91:GLN:HE22	1:L:155:ARG:NE	1.57	1.00
1:G:129:LYS:H	1:L:50:LEU:CB	1.74	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:131:VAL:HG22	1:L:49:GLU:CG	1.91	1.00
1:I:50:LEU:HB2	1:J:129:LYS:N	1.77	1.00
1:J:49:GLU:HG3	1:K:131:VAL:HG22	1.41	1.00
1:M:8:MET:HE2	1:N:134:LYS:HB3	1.40	1.00
1:P:4:PRO:HG2	1:Q:89:GLY:HA3	1.43	1.00
1:D:52:ALA:HB2	1:E:127:ILE:H	1.19	1.00
1:F:111:ARG:NH2	1:J:66:ASP:CA	2.05	1.00
1:L:12:GLY:C	1:P:67:TRP:HE3	1.48	1.00
1:L:111:ARG:HH22	1:P:66:ASP:N	1.59	1.00
1:O:155:ARG:NE	1:P:91:GLN:HE22	1.60	1.00
1:P:5:ASN:O	1:Q:87:MET:HE2	1.62	1.00
1:G:87:MET:CE	1:L:5:ASN:H	1.74	1.00
1:J:4:PRO:HA	1:K:87:MET:HE3	1.40	1.00
1:J:111:ARG:NH2	1:N:66:ASP:HA	1.77	1.00
1:K:8:MET:CE	1:L:134:LYS:CB	2.40	1.00
1:K:111:ARG:HH22	1:O:66:ASP:N	1.56	1.00
1:M:87:MET:HE2	1:R:5:ASN:N	1.76	1.00
1:B:8:MET:CE	1:C:134:LYS:CB	2.40	1.00
1:D:5:ASN:O	1:E:87:MET:HE2	1.62	1.00
1:G:8:MET:HE2	1:H:134:LYS:HB3	1.40	1.00
1:G:50:LEU:CB	1:H:129:LYS:N	2.25	1.00
1:H:49:GLU:HG3	1:I:131:VAL:HG22	1.37	1.00
1:O:4:PRO:HA	1:P:87:MET:HE3	1.41	1.00
1:A:129:LYS:HE3	1:F:48:GLY:HA3	1.40	1.00
1:H:52:ALA:CB	1:I:127:ILE:H	1.73	1.00
1:I:155:ARG:NE	1:J:91:GLN:HE22	1.60	1.00
1:A:91:GLN:NE2	1:F:155:ARG:HD3	1.77	0.99
1:J:8:MET:SD	1:K:134:LYS:HB2	2.00	0.99
1:M:50:LEU:CB	1:N:129:LYS:N	2.25	0.99
1:M:129:LYS:HE3	1:R:48:GLY:HA3	1.43	0.99
1:C:155:ARG:NE	1:D:91:GLN:HE22	1.60	0.99
1:E:148:ARG:CG	1:F:93:GLN:HE22	1.73	0.99
1:M:131:VAL:HG22	1:R:49:GLU:CG	1.91	0.99
1:Q:8:MET:CE	1:R:134:LYS:CB	2.40	0.99
1:H:8:MET:CE	1:I:134:LYS:CB	2.40	0.99
1:J:8:MET:SD	1:K:134:LYS:HB3	1.95	0.99
1:K:8:MET:SD	1:L:134:LYS:HB2	2.01	0.99
1:B:50:LEU:HB2	1:C:129:LYS:H	1.24	0.99
1:E:8:MET:CE	1:F:134:LYS:CB	2.40	0.99
1:H:8:MET:SD	1:I:134:LYS:HB2	2.02	0.99
1:K:50:LEU:HB2	1:L:129:LYS:H	1.23	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:8:MET:SD	1:O:134:LYS:HB2	2.02	0.99
1:G:129:LYS:HE3	1:L:48:GLY:HA3	1.43	0.99
1:J:4:PRO:HG2	1:K:89:GLY:HA3	1.43	0.99
1:K:148:ARG:CG	1:L:93:GLN:HE22	1.73	0.99
1:M:88:PRO:HG2	1:R:3:VAL:HG12	1.37	0.99
1:M:97:LEU:HD13	1:R:148:ARG:CZ	1.93	0.99
1:M:129:LYS:H	1:R:50:LEU:CB	1.74	0.99
1:O:50:LEU:HB2	1:P:129:LYS:N	1.77	0.99
1:P:56:ASP:OD1	1:Q:123:TRP:CD2	2.13	0.99
1:A:49:GLU:CG	1:B:131:VAL:CG2	2.35	0.99
1:C:50:LEU:HB2	1:D:129:LYS:N	1.77	0.99
1:E:111:ARG:HH22	1:I:66:ASP:N	1.59	0.99
1:G:134:LYS:HB2	1:L:8:MET:SD	2.03	0.99
1:I:5:ASN:O	1:J:87:MET:HE2	1.63	0.99
1:O:5:ASN:O	1:P:87:MET:HE2	1.63	0.99
1:E:8:MET:SD	1:F:134:LYS:HB2	2.01	0.99
1:G:12:GLY:HA3	1:Q:68:THR:HG23	1.00	0.99
1:G:97:LEU:HD13	1:L:148:ARG:NE	1.77	0.99
1:Q:8:MET:SD	1:R:134:LYS:HD2	2.01	0.99
1:D:4:PRO:HG2	1:E:89:GLY:HA3	1.43	0.99
1:G:8:MET:SD	1:H:134:LYS:HD2	2.01	0.99
1:D:148:ARG:HG2	1:E:93:GLN:HE22	1.28	0.99
1:G:88:PRO:O	1:L:4:PRO:CA	2.11	0.99
1:M:8:MET:SD	1:N:134:LYS:HD2	2.01	0.99
1:M:87:MET:HE2	1:R:5:ASN:H	1.16	0.99
1:O:48:GLY:C	1:P:129:LYS:HG3	1.87	0.99
1:C:48:GLY:C	1:D:129:LYS:HG3	1.86	0.98
1:P:151:MET:O	1:Q:91:GLN:CG	0.69	0.98
1:Q:148:ARG:NE	1:R:97:LEU:HD13	1.77	0.98
1:C:4:PRO:HG2	1:D:89:GLY:HA3	1.45	0.98
1:D:49:GLU:HG3	1:E:131:VAL:HG22	1.41	0.98
1:G:97:LEU:HD13	1:L:148:ARG:CZ	1.93	0.98
1:J:151:MET:O	1:K:91:GLN:CG	0.69	0.98
1:Q:52:ALA:HB2	1:R:127:ILE:H	1.27	0.98
1:B:12:GLY:O	1:L:66:ASP:CB	2.10	0.98
1:M:88:PRO:C	1:R:4:PRO:CG	2.36	0.98
1:M:97:LEU:HD13	1:R:148:ARG:NE	1.77	0.98
1:P:8:MET:SD	1:Q:134:LYS:HB3	1.94	0.98
1:A:15:THR:O	1:K:67:TRP:CZ2	2.16	0.98
1:A:123:TRP:NE1	1:F:59:TYR:HD1	1.59	0.98
1:D:151:MET:O	1:E:91:GLN:CG	0.69	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:12:GLY:CA	1:R:67:TRP:CE3	2.46	0.98
1:K:50:LEU:HB2	1:L:129:LYS:N	1.79	0.98
1:M:134:LYS:HB2	1:R:8:MET:SD	2.03	0.98
1:A:129:LYS:H	1:F:50:LEU:CB	1.77	0.98
1:C:5:ASN:O	1:D:87:MET:HE2	1.63	0.98
1:D:50:LEU:CD2	1:E:128:GLY:HA3	1.94	0.98
1:H:8:MET:SD	1:I:134:LYS:HD2	1.99	0.98
1:I:48:GLY:C	1:J:129:LYS:HG3	1.87	0.98
1:N:8:MET:CE	1:O:134:LYS:CB	2.40	0.98
1:J:148:ARG:HG2	1:K:93:GLN:HE22	1.28	0.98
1:A:129:LYS:N	1:F:50:LEU:HB2	1.77	0.98
1:I:4:PRO:HG2	1:J:89:GLY:HA3	1.45	0.98
1:K:148:ARG:NE	1:L:97:LEU:HD13	1.77	0.98
1:C:12:GLY:CA	1:G:68:THR:HG23	1.94	0.98
1:D:56:ASP:OD1	1:E:123:TRP:CD2	2.13	0.98
1:G:87:MET:HE2	1:L:5:ASN:N	1.75	0.98
1:H:50:LEU:HB2	1:I:129:LYS:N	1.79	0.98
1:M:131:VAL:HG23	1:R:49:GLU:CD	1.87	0.98
1:C:8:MET:CE	1:D:134:LYS:CB	2.42	0.98
1:J:50:LEU:CD2	1:K:128:GLY:HA3	1.94	0.98
1:M:50:LEU:CD2	1:N:128:GLY:HA3	1.94	0.98
1:O:4:PRO:HG2	1:P:89:GLY:HA3	1.45	0.98
1:A:50:LEU:HD23	1:B:128:GLY:HA3	0.98	0.98
1:K:12:GLY:C	1:O:67:TRP:HE3	1.54	0.98
1:M:49:GLU:CG	1:N:131:VAL:CG2	2.40	0.98
1:A:51:THR:O	1:B:127:ILE:O	1.82	0.97
1:B:52:ALA:HB2	1:C:127:ILE:H	1.27	0.97
1:C:8:MET:SD	1:D:134:LYS:HB3	1.99	0.97
1:E:50:LEU:HB2	1:F:129:LYS:N	1.79	0.97
1:B:8:MET:SD	1:C:134:LYS:HB2	2.02	0.97
1:F:111:ARG:HH22	1:J:66:ASP:N	1.60	0.97
1:J:4:PRO:CG	1:K:88:PRO:C	2.37	0.97
1:P:4:PRO:HA	1:Q:87:MET:HE3	1.40	0.97
1:B:50:LEU:HB2	1:C:129:LYS:N	1.79	0.97
1:E:148:ARG:NE	1:F:97:LEU:HD13	1.77	0.97
1:J:12:GLY:CA	1:N:67:TRP:CE3	2.47	0.97
1:M:127:ILE:H	1:R:52:ALA:HB2	1.27	0.97
1:B:111:ARG:HH22	1:L:66:ASP:CG	1.58	0.97
1:I:8:MET:CE	1:J:134:LYS:CB	2.42	0.97
1:M:88:PRO:O	1:R:4:PRO:CA	2.11	0.97
1:B:12:GLY:CA	1:L:67:TRP:CE3	2.48	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:12:GLY:CA	1:L:67:TRP:HE3	1.78	0.97
1:G:88:PRO:C	1:L:4:PRO:CG	2.36	0.97
1:Q:50:LEU:HB2	1:R:129:LYS:N	1.79	0.97
1:G:127:ILE:H	1:L:52:ALA:HB2	1.27	0.97
1:N:152:ALA:HB1	1:O:38:ARG:NH2	1.80	0.97
1:P:148:ARG:HG2	1:Q:93:GLN:HE22	1.28	0.97
1:Q:8:MET:SD	1:R:134:LYS:HB2	2.01	0.97
1:A:3:VAL:CG1	1:B:88:PRO:HG2	1.95	0.97
1:G:93:GLN:HE22	1:L:148:ARG:CG	1.78	0.97
1:N:50:LEU:HB2	1:O:129:LYS:N	1.79	0.97
1:N:150:SER:O	1:O:94:GLN:NE2	1.98	0.97
1:Q:50:LEU:HB2	1:R:129:LYS:H	1.23	0.97
1:P:4:PRO:CG	1:Q:88:PRO:C	2.37	0.97
1:A:97:LEU:HD13	1:F:148:ARG:NE	1.79	0.96
1:C:148:ARG:NE	1:D:97:LEU:HD13	1.79	0.96
1:H:12:GLY:CA	1:R:67:TRP:HE3	1.76	0.96
1:J:12:GLY:CA	1:N:67:TRP:HE3	1.76	0.96
1:K:52:ALA:HB2	1:L:127:ILE:H	1.27	0.96
1:O:148:ARG:NE	1:P:97:LEU:HD13	1.79	0.96
1:A:12:GLY:HA3	1:K:68:THR:HG23	0.98	0.96
1:H:111:ARG:HH22	1:R:66:ASP:CG	1.57	0.96
1:H:150:SER:O	1:I:94:GLN:NE2	1.98	0.96
1:J:5:ASN:O	1:K:87:MET:CE	2.13	0.96
1:M:87:MET:HE2	1:R:5:ASN:C	1.90	0.96
1:O:52:ALA:HB2	1:P:127:ILE:H	1.26	0.96
1:A:111:ARG:NH2	1:K:66:ASP:N	2.14	0.96
1:D:4:PRO:CG	1:E:88:PRO:C	2.37	0.96
1:G:50:LEU:CD2	1:H:128:GLY:HA3	1.94	0.96
1:I:148:ARG:NE	1:J:97:LEU:HD13	1.80	0.96
1:M:88:PRO:O	1:R:4:PRO:N	1.98	0.96
1:B:152:ALA:CB	1:C:38:ARG:HH22	1.78	0.96
1:O:8:MET:CE	1:P:134:LYS:CB	2.42	0.96
1:P:50:LEU:CD2	1:Q:128:GLY:HA3	1.94	0.96
1:A:12:GLY:CA	1:K:68:THR:HG23	1.94	0.96
1:B:150:SER:O	1:C:94:GLN:NE2	1.98	0.96
1:C:12:GLY:HA3	1:G:68:THR:HG23	1.00	0.96
1:N:52:ALA:HB2	1:O:127:ILE:H	1.27	0.96
1:B:152:ALA:HB1	1:C:38:ARG:NH2	1.80	0.96
1:G:87:MET:HE2	1:L:5:ASN:C	1.90	0.96
1:G:129:LYS:CE	1:L:48:GLY:HA3	1.96	0.96
1:J:12:GLY:O	1:N:67:TRP:CE3	2.17	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:50:LEU:HD23	1:E:128:GLY:CA	1.94	0.96
1:H:152:ALA:CB	1:I:38:ARG:HH22	1.78	0.96
1:I:59:TYR:HD1	1:J:123:TRP:NE1	1.63	0.96
1:M:4:PRO:HG3	1:N:89:GLY:N	1.81	0.96
1:A:127:ILE:H	1:F:52:ALA:CB	1.78	0.96
1:F:12:GLY:O	1:J:67:TRP:CE3	2.17	0.96
1:H:52:ALA:HB2	1:I:127:ILE:H	1.27	0.96
1:J:50:LEU:HD23	1:K:128:GLY:CA	1.94	0.96
1:O:59:TYR:HD1	1:P:123:TRP:NE1	1.63	0.96
1:A:8:MET:SD	1:B:134:LYS:HD2	2.06	0.96
1:A:38:ARG:HH22	1:F:152:ALA:HB1	1.31	0.96
1:A:131:VAL:HG22	1:F:49:GLU:HG3	1.48	0.96
1:G:4:PRO:HG3	1:H:89:GLY:N	1.81	0.96
1:G:131:VAL:HG23	1:L:49:GLU:CD	1.87	0.96
1:H:152:ALA:HB1	1:I:38:ARG:NH2	1.80	0.96
1:M:93:GLN:HE22	1:R:148:ARG:CG	1.78	0.96
1:M:134:LYS:CD	1:R:8:MET:SD	2.54	0.96
1:O:4:PRO:CG	1:P:88:PRO:C	2.39	0.96
1:A:129:LYS:CE	1:F:48:GLY:HA3	1.95	0.96
1:A:134:LYS:CD	1:F:8:MET:SD	2.54	0.96
1:D:5:ASN:O	1:E:87:MET:CE	2.13	0.96
1:E:12:GLY:O	1:I:66:ASP:CB	2.12	0.96
1:G:134:LYS:CD	1:L:8:MET:SD	2.54	0.96
1:M:129:LYS:CE	1:R:48:GLY:HA3	1.96	0.96
1:N:152:ALA:CB	1:O:38:ARG:HH22	1.78	0.96
1:E:152:ALA:HB1	1:F:38:ARG:NH2	1.81	0.95
1:G:49:GLU:CG	1:H:131:VAL:CG2	2.40	0.95
1:G:123:TRP:NE1	1:L:59:TYR:HD1	1.61	0.95
1:J:150:SER:O	1:K:94:GLN:NE2	1.99	0.95
1:B:59:TYR:HD1	1:C:123:TRP:NE1	1.63	0.95
1:M:123:TRP:NE1	1:R:59:TYR:HD1	1.61	0.95
1:P:150:SER:O	1:Q:94:GLN:NE2	1.99	0.95
1:Q:152:ALA:HB1	1:R:38:ARG:NH2	1.81	0.95
1:I:52:ALA:HB2	1:J:127:ILE:H	1.26	0.95
1:L:12:GLY:O	1:P:67:TRP:CE3	2.17	0.95
1:B:4:PRO:HG3	1:C:89:GLY:N	1.66	0.95
1:C:59:TYR:HD1	1:D:123:TRP:NE1	1.63	0.95
1:D:12:GLY:CA	1:H:67:TRP:HE3	1.79	0.95
1:D:111:ARG:NH2	1:H:66:ASP:HA	1.80	0.95
1:P:5:ASN:O	1:Q:87:MET:CE	2.13	0.95
1:D:3:VAL:CG1	1:E:88:PRO:HG2	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:12:GLY:CA	1:I:67:TRP:CE3	2.50	0.95
1:G:91:GLN:NE2	1:L:155:ARG:CD	2.29	0.95
1:C:52:ALA:HB2	1:D:127:ILE:H	1.26	0.95
1:E:52:ALA:HB2	1:F:127:ILE:H	1.27	0.95
1:G:88:PRO:O	1:L:4:PRO:N	1.98	0.95
1:P:50:LEU:HD23	1:Q:128:GLY:CA	1.94	0.95
1:D:150:SER:O	1:E:94:GLN:NE2	1.99	0.95
1:H:111:ARG:NH2	1:R:66:ASP:OD1	1.93	0.95
1:B:56:ASP:OD1	1:C:123:TRP:CD2	2.20	0.95
1:B:111:ARG:NH2	1:L:66:ASP:HA	1.79	0.95
1:D:12:GLY:CA	1:H:67:TRP:CE3	2.49	0.95
1:E:152:ALA:CB	1:F:38:ARG:HH22	1.80	0.95
1:F:12:GLY:CA	1:J:67:TRP:CE3	2.50	0.95
1:K:12:GLY:CA	1:O:67:TRP:CE3	2.50	0.95
1:N:59:TYR:HD1	1:O:123:TRP:NE1	1.63	0.95
1:Q:59:TYR:HD1	1:R:123:TRP:NE1	1.64	0.95
1:D:151:MET:C	1:E:91:GLN:CB	2.40	0.94
1:H:59:TYR:HD1	1:I:123:TRP:NE1	1.63	0.94
1:D:12:GLY:O	1:H:67:TRP:CE3	2.20	0.94
1:K:4:PRO:HG3	1:L:89:GLY:N	1.67	0.94
1:K:152:ALA:CB	1:L:38:ARG:HH22	1.80	0.94
1:I:12:GLY:CA	1:M:68:THR:HG23	1.96	0.94
1:O:150:SER:O	1:P:94:GLN:NE2	2.00	0.94
1:Q:152:ALA:CB	1:R:38:ARG:HH22	1.80	0.94
1:B:4:PRO:HA	1:C:87:MET:HE3	1.48	0.94
1:C:4:PRO:CG	1:D:88:PRO:C	2.39	0.94
1:G:3:VAL:CG1	1:H:88:PRO:HG2	1.97	0.94
1:H:4:PRO:HA	1:I:87:MET:HE3	1.48	0.94
1:K:152:ALA:HB1	1:L:38:ARG:NH2	1.81	0.94
1:M:3:VAL:CG1	1:N:88:PRO:HG2	1.98	0.94
1:E:12:GLY:C	1:I:67:TRP:HE3	1.55	0.94
1:G:129:LYS:N	1:L:50:LEU:CB	2.31	0.94
1:I:4:PRO:CG	1:J:88:PRO:C	2.39	0.94
1:I:150:SER:O	1:J:94:GLN:NE2	2.00	0.94
1:I:12:GLY:C	1:M:67:TRP:HE3	1.73	0.94
1:O:49:GLU:CG	1:P:131:VAL:CG2	2.41	0.94
1:B:155:ARG:HD3	1:C:89:GLY:O	1.68	0.94
1:E:59:TYR:HD1	1:F:123:TRP:NE1	1.64	0.94
1:G:134:LYS:HD3	1:L:8:MET:HB3	0.94	0.94
1:A:8:MET:CG	1:B:134:LYS:HD3	1.96	0.94
1:A:127:ILE:H	1:F:52:ALA:HB2	1.32	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:134:LYS:O	1:F:8:MET:CE	2.15	0.94
1:H:56:ASP:OD1	1:I:123:TRP:CD2	2.20	0.94
1:H:111:ARG:NH2	1:R:66:ASP:HA	1.79	0.94
1:J:151:MET:C	1:K:91:GLN:CB	2.40	0.94
1:K:148:ARG:HG2	1:L:93:GLN:HE22	1.33	0.94
1:M:5:ASN:O	1:N:87:MET:HE2	1.65	0.94
1:M:91:GLN:NE2	1:R:155:ARG:HD3	1.83	0.94
1:M:134:LYS:HD3	1:R:8:MET:HB3	0.94	0.94
1:C:155:ARG:HD3	1:D:89:GLY:O	1.68	0.94
1:Q:148:ARG:HG2	1:R:93:GLN:HE22	1.33	0.94
1:C:150:SER:O	1:D:94:GLN:NE2	2.00	0.94
1:I:5:ASN:O	1:J:87:MET:CE	2.16	0.94
1:I:155:ARG:HD3	1:J:89:GLY:O	1.68	0.94
1:J:3:VAL:CG1	1:K:88:PRO:HG2	1.97	0.94
1:M:91:GLN:NE2	1:R:155:ARG:CD	2.29	0.94
1:H:12:GLY:C	1:R:67:TRP:HE3	1.54	0.93
1:K:12:GLY:CA	1:O:67:TRP:HE3	1.81	0.93
1:K:56:ASP:OD1	1:L:123:TRP:CD2	2.21	0.93
1:M:8:MET:SD	1:N:134:LYS:HB3	2.07	0.93
1:O:155:ARG:HD3	1:P:89:GLY:O	1.68	0.93
1:Q:150:SER:O	1:R:94:GLN:NE2	2.01	0.93
1:E:150:SER:O	1:F:94:GLN:NE2	2.01	0.93
1:G:12:GLY:C	1:Q:67:TRP:HE3	1.64	0.93
1:G:111:ARG:NH2	1:Q:66:ASP:N	2.13	0.93
1:K:59:TYR:HD1	1:L:123:TRP:NE1	1.64	0.93
1:A:89:GLY:CA	1:F:4:PRO:CG	1.77	0.93
1:B:12:GLY:C	1:L:67:TRP:HE3	1.55	0.93
1:B:148:ARG:HG2	1:C:93:GLN:HE22	1.33	0.93
1:E:148:ARG:HG2	1:F:93:GLN:HE22	1.34	0.93
1:I:49:GLU:CG	1:J:131:VAL:CG2	2.41	0.93
1:N:4:PRO:HA	1:O:87:MET:HE3	1.48	0.93
1:A:8:MET:HE2	1:B:134:LYS:HB3	1.46	0.93
1:D:155:ARG:HD3	1:E:89:GLY:O	1.69	0.93
1:N:148:ARG:HG2	1:O:93:GLN:HE22	1.33	0.93
1:O:5:ASN:O	1:P:87:MET:CE	2.16	0.93
1:P:151:MET:C	1:Q:91:GLN:CB	2.40	0.93
1:A:5:ASN:O	1:B:87:MET:HE2	1.67	0.93
1:A:131:VAL:HG22	1:F:49:GLU:CG	1.98	0.93
1:A:134:LYS:HD3	1:F:8:MET:CG	1.98	0.93
1:G:4:PRO:HG2	1:H:89:GLY:HA3	1.51	0.93
1:G:5:ASN:O	1:H:87:MET:HE2	1.65	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:148:ARG:HG2	1:I:93:GLN:HE22	1.33	0.93
1:K:12:GLY:O	1:O:66:ASP:CB	2.14	0.93
1:F:12:GLY:CA	1:J:67:TRP:HE3	1.81	0.93
1:P:3:VAL:CG1	1:Q:88:PRO:HG2	1.96	0.93
1:A:49:GLU:HG3	1:B:131:VAL:CG2	1.98	0.93
1:A:148:ARG:HG3	1:B:93:GLN:HE22	1.34	0.93
1:D:4:PRO:CB	1:E:88:PRO:C	2.38	0.93
1:D:50:LEU:CB	1:E:129:LYS:H	1.81	0.93
1:J:13:ALA:N	1:N:68:THR:HA	1.82	0.93
1:K:111:ARG:NH2	1:O:66:ASP:HA	1.83	0.93
1:O:8:MET:SD	1:P:134:LYS:HB2	2.09	0.93
1:L:12:GLY:CA	1:P:67:TRP:CE3	2.52	0.93
1:A:12:GLY:C	1:K:67:TRP:HE3	1.71	0.93
1:J:155:ARG:HD3	1:K:89:GLY:O	1.69	0.93
1:O:56:ASP:OD1	1:P:123:TRP:CD2	2.20	0.93
1:A:97:LEU:HD13	1:F:148:ARG:CZ	1.99	0.92
1:B:155:ARG:HE	1:C:91:GLN:HE22	1.14	0.92
1:G:8:MET:SD	1:H:134:LYS:HB3	2.07	0.92
1:G:113:PRO:HB3	1:Q:66:ASP:OD1	1.67	0.92
1:O:50:LEU:HD23	1:P:128:GLY:CA	1.99	0.92
1:C:12:GLY:C	1:G:67:TRP:HE3	1.76	0.92
1:E:5:ASN:C	1:F:87:MET:HE2	1.94	0.92
1:G:91:GLN:NE2	1:L:155:ARG:HD3	1.83	0.92
1:J:155:ARG:NE	1:K:91:GLN:HE22	1.68	0.92
1:C:5:ASN:O	1:D:87:MET:CE	2.16	0.92
1:E:12:GLY:CA	1:I:67:TRP:HE3	1.82	0.92
1:G:15:THR:O	1:Q:67:TRP:CZ2	2.22	0.92
1:G:51:THR:O	1:H:127:ILE:O	1.87	0.92
1:H:155:ARG:HD3	1:I:89:GLY:O	1.68	0.92
1:I:155:ARG:CD	1:J:91:GLN:HE22	1.82	0.92
1:M:51:THR:O	1:N:127:ILE:O	1.88	0.92
1:P:50:LEU:CB	1:Q:129:LYS:H	1.81	0.92
1:Q:5:ASN:C	1:R:87:MET:HE2	1.94	0.92
1:K:150:SER:O	1:L:94:GLN:NE2	2.01	0.92
1:K:12:GLY:O	1:O:67:TRP:CE3	2.22	0.92
1:E:4:PRO:HG3	1:F:89:GLY:N	1.67	0.92
1:F:111:ARG:NH2	1:J:66:ASP:HA	1.85	0.92
1:H:155:ARG:HE	1:I:91:GLN:HE22	1.14	0.92
1:P:155:ARG:HD3	1:Q:89:GLY:O	1.69	0.92
1:N:155:ARG:HD3	1:O:89:GLY:O	1.68	0.92
1:O:155:ARG:CD	1:P:91:GLN:HE22	1.81	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:5:ASN:C	1:L:87:MET:HE2	1.94	0.92
1:M:155:ARG:NE	1:N:91:GLN:HE22	1.68	0.92
1:N:56:ASP:OD1	1:O:123:TRP:CD2	2.20	0.92
1:A:8:MET:SD	1:B:134:LYS:HB3	2.10	0.92
1:A:111:ARG:HH22	1:K:66:ASP:H	1.05	0.92
1:G:56:ASP:OD1	1:H:123:TRP:CD2	2.23	0.92
1:I:50:LEU:HD23	1:J:128:GLY:CA	1.99	0.92
1:A:56:ASP:OD1	1:B:123:TRP:CD2	2.19	0.92
1:A:134:LYS:HD3	1:F:8:MET:HB3	0.94	0.92
1:J:50:LEU:CB	1:K:129:LYS:H	1.81	0.92
1:P:151:MET:C	1:Q:91:GLN:CG	1.82	0.92
1:D:13:ALA:N	1:H:68:THR:HA	1.83	0.91
1:B:49:GLU:CG	1:C:131:VAL:CG2	2.45	0.91
1:B:111:ARG:HH22	1:L:66:ASP:CA	1.68	0.91
1:E:56:ASP:OD1	1:F:123:TRP:CD2	2.21	0.91
1:G:111:ARG:HH22	1:Q:66:ASP:H	1.06	0.91
1:I:4:PRO:CB	1:J:88:PRO:C	2.39	0.91
1:D:155:ARG:NE	1:E:91:GLN:HE22	1.68	0.91
1:C:8:MET:SD	1:D:134:LYS:HB2	2.09	0.91
1:C:155:ARG:CD	1:D:91:GLN:HE22	1.82	0.91
1:N:155:ARG:HE	1:O:91:GLN:HE22	1.14	0.91
1:K:4:PRO:HA	1:L:87:MET:HE3	1.51	0.91
1:Q:4:PRO:HA	1:R:87:MET:HE3	1.51	0.91
1:I:8:MET:SD	1:J:134:LYS:HB2	2.09	0.91
1:K:155:ARG:HE	1:L:91:GLN:HE22	1.13	0.91
1:M:89:GLY:CA	1:R:4:PRO:CG	1.81	0.91
1:A:89:GLY:HA3	1:F:4:PRO:CB	2.01	0.91
1:D:12:GLY:O	1:H:66:ASP:CB	2.17	0.91
1:H:5:ASN:C	1:I:87:MET:HE2	1.96	0.91
1:M:128:GLY:CA	1:R:50:LEU:HD23	2.01	0.91
1:P:155:ARG:NE	1:Q:91:GLN:HE22	1.68	0.91
1:E:155:ARG:HE	1:F:91:GLN:HE22	1.13	0.91
1:G:134:LYS:HD3	1:L:8:MET:CG	2.01	0.91
1:I:3:VAL:CG1	1:J:88:PRO:HG2	2.01	0.91
1:M:8:MET:CE	1:N:134:LYS:CB	2.49	0.91
1:M:56:ASP:OD1	1:N:123:TRP:CD2	2.23	0.91
1:B:12:GLY:O	1:L:67:TRP:CE3	2.23	0.90
1:C:50:LEU:HD23	1:D:128:GLY:CA	1.99	0.90
1:E:155:ARG:HD3	1:F:89:GLY:O	1.70	0.90
1:J:113:PRO:HB3	1:N:66:ASP:CG	1.96	0.90
1:K:49:GLU:CG	1:L:131:VAL:CG2	2.47	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:56:ASP:OD1	1:R:123:TRP:CD2	2.21	0.90
1:E:12:GLY:O	1:I:67:TRP:CE3	2.24	0.90
1:G:12:GLY:CA	1:Q:68:THR:HG23	1.96	0.90
1:M:134:LYS:HD3	1:R:8:MET:CG	2.01	0.90
1:C:3:VAL:CG1	1:D:88:PRO:HG2	2.01	0.90
1:N:3:VAL:CG1	1:O:88:PRO:HG2	2.01	0.90
1:N:5:ASN:C	1:O:87:MET:HE2	1.95	0.90
1:P:4:PRO:CB	1:Q:88:PRO:C	2.38	0.90
1:P:50:LEU:CB	1:Q:129:LYS:N	2.33	0.90
1:B:13:ALA:N	1:L:68:THR:HA	1.87	0.90
1:Q:155:ARG:HE	1:R:91:GLN:HE22	1.13	0.90
1:G:155:ARG:NE	1:H:91:GLN:HE22	1.68	0.90
1:M:4:PRO:HG2	1:N:89:GLY:HA3	1.51	0.90
1:M:129:LYS:N	1:R:50:LEU:CB	2.31	0.90
1:D:50:LEU:CB	1:E:129:LYS:N	2.33	0.90
1:G:8:MET:CE	1:H:134:LYS:CB	2.49	0.90
1:H:3:VAL:CG1	1:I:88:PRO:HG2	2.01	0.90
1:O:3:VAL:CG1	1:P:88:PRO:HG2	2.01	0.90
1:B:5:ASN:C	1:C:87:MET:HE2	1.95	0.90
1:E:4:PRO:HA	1:F:87:MET:HE3	1.51	0.90
1:E:111:ARG:NH2	1:I:66:ASP:HA	1.86	0.90
1:G:148:ARG:NE	1:H:97:LEU:HD13	1.87	0.90
1:Q:155:ARG:HD3	1:R:89:GLY:O	1.70	0.90
1:D:49:GLU:CG	1:E:131:VAL:CG2	2.47	0.90
1:A:91:GLN:NE2	1:F:155:ARG:NE	2.20	0.90
1:C:50:LEU:CB	1:D:129:LYS:H	1.85	0.90
1:G:5:ASN:O	1:H:87:MET:CE	2.20	0.90
1:K:155:ARG:HD3	1:L:89:GLY:O	1.69	0.90
1:M:148:ARG:NE	1:N:97:LEU:HD13	1.87	0.90
1:G:89:GLY:CA	1:L:4:PRO:CG	1.80	0.90
1:J:50:LEU:CB	1:K:129:LYS:N	2.33	0.90
1:J:155:ARG:CD	1:K:91:GLN:HE22	1.85	0.90
1:L:12:GLY:CA	1:P:67:TRP:HE3	1.83	0.90
1:H:12:GLY:O	1:R:67:TRP:CE3	2.23	0.89
1:B:3:VAL:CG1	1:C:88:PRO:HG2	2.01	0.89
1:I:50:LEU:CD2	1:J:128:GLY:HA3	2.01	0.89
1:Q:3:VAL:CG1	1:R:88:PRO:HG2	2.02	0.89
1:D:155:ARG:CD	1:E:91:GLN:HE22	1.85	0.89
1:A:148:ARG:HG2	1:B:93:GLN:NE2	1.86	0.89
1:C:49:GLU:CG	1:D:131:VAL:CG2	2.41	0.89
1:D:12:GLY:C	1:H:67:TRP:HE3	1.51	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:128:GLY:CA	1:L:50:LEU:HD23	2.01	0.89
1:L:13:ALA:N	1:P:68:THR:HA	1.86	0.89
1:N:50:LEU:HD23	1:O:128:GLY:CA	2.02	0.89
1:A:4:PRO:HG3	1:B:89:GLY:N	1.86	0.89
1:B:50:LEU:CD2	1:C:128:GLY:HA3	2.02	0.89
1:E:8:MET:HB3	1:F:134:LYS:HD3	0.90	0.89
1:O:151:MET:C	1:P:91:GLN:CB	2.45	0.89
1:H:111:ARG:HH22	1:R:66:ASP:CA	1.69	0.89
1:I:56:ASP:OD1	1:J:123:TRP:CD2	2.20	0.89
1:J:12:GLY:O	1:N:66:ASP:CB	2.17	0.89
1:M:5:ASN:O	1:N:87:MET:CE	2.20	0.89
1:P:148:ARG:CZ	1:Q:97:LEU:CD1	2.51	0.89
1:P:155:ARG:CD	1:Q:91:GLN:HE22	1.85	0.89
1:C:50:LEU:HB2	1:D:129:LYS:CB	2.03	0.89
1:I:50:LEU:HB2	1:J:129:LYS:CB	2.03	0.89
1:Q:8:MET:HB3	1:R:134:LYS:HD3	0.90	0.89
1:A:52:ALA:CB	1:B:127:ILE:N	2.35	0.89
1:B:50:LEU:HD23	1:C:128:GLY:CA	2.02	0.89
1:E:50:LEU:CB	1:F:129:LYS:H	1.85	0.89
1:I:50:LEU:CB	1:J:129:LYS:H	1.85	0.89
1:J:111:ARG:NH2	1:N:66:ASP:OD1	1.91	0.89
1:O:50:LEU:CB	1:P:129:LYS:N	2.36	0.89
1:A:151:MET:CA	1:B:91:GLN:HG2	2.03	0.88
1:E:3:VAL:CG1	1:F:88:PRO:HG2	2.02	0.88
1:F:12:GLY:C	1:J:67:TRP:HE3	1.49	0.88
1:K:3:VAL:CG1	1:L:88:PRO:HG2	2.02	0.88
1:K:8:MET:HB3	1:L:134:LYS:HD3	0.90	0.88
1:O:50:LEU:HB2	1:P:129:LYS:CB	2.03	0.88
1:O:50:LEU:CB	1:P:129:LYS:H	1.84	0.88
1:O:150:SER:CB	1:P:94:GLN:HE22	1.86	0.88
1:A:129:LYS:N	1:F:50:LEU:CB	2.35	0.88
1:C:56:ASP:OD1	1:D:123:TRP:CD2	2.20	0.88
1:G:88:PRO:CG	1:L:3:VAL:CG1	2.51	0.88
1:I:50:LEU:CB	1:J:129:LYS:N	2.36	0.88
1:K:13:ALA:N	1:O:68:THR:HA	1.88	0.88
1:M:54:SER:HB2	1:N:127:ILE:HG22	1.55	0.88
1:A:93:GLN:HE22	1:F:148:ARG:CG	1.86	0.88
1:C:152:ALA:CA	1:D:91:GLN:HB2	2.03	0.88
1:D:13:ALA:H	1:H:68:THR:CA	1.86	0.88
1:G:8:MET:SD	1:H:134:LYS:HB2	2.13	0.88
1:H:8:MET:HB3	1:I:134:LYS:HD3	0.88	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:59:TYR:CD1	1:J:123:TRP:NE1	2.40	0.88
1:I:150:SER:CB	1:J:94:GLN:HE22	1.86	0.88
1:K:50:LEU:CB	1:L:129:LYS:H	1.85	0.88
1:K:50:LEU:CD2	1:L:128:GLY:HA3	2.03	0.88
1:Q:50:LEU:HD23	1:R:128:GLY:CA	2.02	0.88
1:A:50:LEU:HB2	1:B:129:LYS:CA	2.03	0.88
1:B:50:LEU:CB	1:C:129:LYS:H	1.87	0.88
1:J:148:ARG:CZ	1:K:97:LEU:CD1	2.51	0.88
1:L:111:ARG:NH2	1:P:66:ASP:HA	1.85	0.88
1:N:8:MET:HB3	1:O:134:LYS:HD3	0.88	0.88
1:H:49:GLU:CG	1:I:131:VAL:CG2	2.45	0.88
1:G:4:PRO:CG	1:H:88:PRO:C	2.47	0.88
1:H:50:LEU:HD23	1:I:128:GLY:CA	2.02	0.88
1:O:4:PRO:CB	1:P:88:PRO:C	2.39	0.88
1:Q:50:LEU:CD2	1:R:128:GLY:HA3	2.03	0.88
1:C:150:SER:CB	1:D:94:GLN:HE22	1.86	0.88
1:D:111:ARG:HH22	1:H:66:ASP:H	1.18	0.88
1:F:13:ALA:N	1:J:68:THR:HA	1.88	0.88
1:A:52:ALA:HB2	1:B:127:ILE:N	1.89	0.88
1:A:54:SER:HB2	1:B:127:ILE:HG22	1.53	0.88
1:G:89:GLY:HA3	1:L:4:PRO:CB	2.04	0.88
1:M:88:PRO:CG	1:R:3:VAL:CG1	2.51	0.88
1:Q:50:LEU:CB	1:R:129:LYS:H	1.85	0.88
1:A:88:PRO:CG	1:F:3:VAL:CG1	2.52	0.88
1:B:8:MET:HB3	1:C:134:LYS:HD3	0.88	0.88
1:G:49:GLU:HG3	1:H:131:VAL:CG2	2.04	0.88
1:J:111:ARG:HH22	1:N:66:ASP:H	1.19	0.88
1:A:148:ARG:NE	1:B:97:LEU:HD13	1.89	0.88
1:C:4:PRO:CB	1:D:88:PRO:C	2.39	0.88
1:H:50:LEU:CB	1:I:129:LYS:H	1.87	0.88
1:J:13:ALA:H	1:N:68:THR:CA	1.87	0.88
1:A:50:LEU:HB2	1:B:129:LYS:CB	2.03	0.87
1:C:50:LEU:CB	1:D:129:LYS:N	2.36	0.87
1:E:59:TYR:CD1	1:F:123:TRP:NE1	2.41	0.87
1:M:4:PRO:CG	1:N:88:PRO:C	2.47	0.87
1:P:59:TYR:HD1	1:Q:123:TRP:NE1	1.71	0.87
1:D:148:ARG:HG3	1:E:93:GLN:HE22	1.39	0.87
1:G:148:ARG:HG3	1:H:93:GLN:HE22	1.40	0.87
1:H:13:ALA:N	1:R:68:THR:HA	1.89	0.87
1:J:152:ALA:HB2	1:K:91:GLN:HB2	0.87	0.87
1:M:128:GLY:HA3	1:R:50:LEU:CD2	2.04	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:12:GLY:O	1:K:66:ASP:CB	2.21	0.87
1:C:50:LEU:CD2	1:D:128:GLY:HA3	2.01	0.87
1:D:3:VAL:HG12	1:E:88:PRO:HG2	1.56	0.87
1:G:54:SER:HB2	1:H:127:ILE:HG22	1.55	0.87
1:O:152:ALA:CA	1:P:91:GLN:HB2	2.03	0.87
1:M:94:GLN:NE2	1:R:150:SER:O	2.07	0.87
1:A:113:PRO:HB3	1:K:66:ASP:OD1	1.73	0.87
1:C:155:ARG:HE	1:D:91:GLN:HE22	1.19	0.87
1:E:50:LEU:CD2	1:F:128:GLY:HA3	2.03	0.87
1:G:128:GLY:HA3	1:L:50:LEU:CD2	2.04	0.87
1:I:152:ALA:CA	1:J:91:GLN:HB2	2.03	0.87
1:A:123:TRP:NE1	1:F:59:TYR:CD1	2.38	0.87
1:E:50:LEU:HD23	1:F:128:GLY:CA	2.02	0.87
1:H:152:ALA:HB2	1:I:91:GLN:HB2	0.87	0.87
1:M:123:TRP:HE1	1:R:59:TYR:HD1	1.14	0.87
1:Q:49:GLU:CG	1:R:131:VAL:CG2	2.47	0.87
1:E:49:GLU:CG	1:F:131:VAL:CG2	2.47	0.87
1:G:94:GLN:NE2	1:L:150:SER:O	2.07	0.87
1:O:50:LEU:CD2	1:P:128:GLY:HA3	2.01	0.87
1:P:49:GLU:CG	1:Q:131:VAL:CG2	2.47	0.87
1:B:152:ALA:HB2	1:C:91:GLN:HB2	0.87	0.87
1:C:8:MET:HB3	1:D:134:LYS:HD3	0.87	0.87
1:D:151:MET:CA	1:E:91:GLN:HG2	2.05	0.87
1:B:152:ALA:CA	1:C:91:GLN:HB2	2.04	0.87
1:G:50:LEU:HB2	1:H:129:LYS:CB	2.05	0.87
1:J:3:VAL:HG12	1:K:88:PRO:HG2	1.56	0.87
1:A:131:VAL:HG23	1:F:49:GLU:CD	1.93	0.86
1:D:113:PRO:HB3	1:H:66:ASP:CG	2.00	0.86
1:D:148:ARG:CZ	1:E:97:LEU:CD1	2.51	0.86
1:D:152:ALA:CA	1:E:91:GLN:HB2	2.04	0.86
1:J:59:TYR:HD1	1:K:123:TRP:NE1	1.71	0.86
1:M:148:ARG:HG3	1:N:93:GLN:HE22	1.40	0.86
1:P:5:ASN:N	1:Q:87:MET:CE	2.27	0.86
1:A:148:ARG:CG	1:B:93:GLN:NE2	2.38	0.86
1:B:3:VAL:HG12	1:C:88:PRO:HG2	1.57	0.86
1:H:13:ALA:H	1:R:68:THR:CA	1.88	0.86
1:H:113:PRO:HB3	1:R:66:ASP:CG	2.00	0.86
1:M:89:GLY:HA3	1:R:4:PRO:CB	2.04	0.86
1:C:111:ARG:NH2	1:G:66:ASP:N	2.23	0.86
1:J:4:PRO:CB	1:K:88:PRO:C	2.38	0.86
1:N:152:ALA:CA	1:O:91:GLN:HB2	2.04	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:50:LEU:CB	1:O:129:LYS:H	1.87	0.86
1:D:59:TYR:HD1	1:E:123:TRP:NE1	1.71	0.86
1:N:152:ALA:HB2	1:O:91:GLN:HB2	0.87	0.86
1:K:152:ALA:HB2	1:L:91:GLN:HB2	0.86	0.86
1:O:8:MET:HB3	1:P:134:LYS:HD3	0.87	0.86
1:A:94:GLN:NE2	1:F:150:SER:O	2.08	0.86
1:F:12:GLY:O	1:J:66:ASP:CB	2.19	0.86
1:I:15:THR:O	1:M:67:TRP:HZ2	1.57	0.86
1:J:148:ARG:HG3	1:K:93:GLN:HE22	1.40	0.86
1:M:4:PRO:CB	1:N:88:PRO:C	2.46	0.86
1:P:151:MET:CA	1:Q:91:GLN:HG2	2.05	0.86
1:P:152:ALA:CA	1:Q:91:GLN:HB2	2.04	0.86
1:Q:152:ALA:HB2	1:R:91:GLN:HB2	0.86	0.86
1:B:150:SER:OG	1:C:94:GLN:CD	2.19	0.86
1:E:50:LEU:CB	1:F:129:LYS:N	2.38	0.86
1:E:152:ALA:HB2	1:F:91:GLN:HB2	0.86	0.86
1:G:111:ARG:NH2	1:Q:66:ASP:HA	1.91	0.86
1:K:3:VAL:HG12	1:L:88:PRO:HG2	1.57	0.86
1:M:8:MET:SD	1:N:134:LYS:HB2	2.13	0.86
1:M:50:LEU:HB2	1:N:129:LYS:CB	2.05	0.86
1:O:155:ARG:HE	1:P:91:GLN:HE22	1.19	0.86
1:Q:155:ARG:HE	1:R:91:GLN:NE2	1.74	0.86
1:E:13:ALA:N	1:I:68:THR:HA	1.90	0.86
1:E:13:ALA:H	1:I:68:THR:CA	1.89	0.86
1:J:49:GLU:CG	1:K:131:VAL:CG2	2.47	0.86
1:J:152:ALA:CA	1:K:91:GLN:HB2	2.04	0.86
1:G:155:ARG:HD3	1:H:89:GLY:O	1.76	0.85
1:N:47:PRO:HB3	1:O:132:THR:O	1.74	0.85
1:P:3:VAL:HG12	1:Q:88:PRO:HG2	1.56	0.85
1:D:5:ASN:N	1:E:87:MET:CE	2.27	0.85
1:G:134:LYS:O	1:L:8:MET:CE	2.23	0.85
1:G:151:MET:CA	1:H:91:GLN:HG2	2.06	0.85
1:H:47:PRO:HB3	1:I:132:THR:O	1.74	0.85
1:H:152:ALA:CA	1:I:91:GLN:HB2	2.04	0.85
1:I:155:ARG:HE	1:J:91:GLN:HE22	1.19	0.85
1:K:13:ALA:H	1:O:68:THR:CA	1.88	0.85
1:M:155:ARG:HD3	1:N:89:GLY:O	1.76	0.85
1:P:152:ALA:HB2	1:Q:91:GLN:HB2	0.87	0.85
1:A:134:LYS:CB	1:F:8:MET:CE	2.53	0.85
1:A:135:GLU:OE1	1:F:9:PRO:HD2	1.76	0.85
1:I:111:ARG:NH2	1:M:66:ASP:N	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:50:LEU:HD23	1:L:128:GLY:CA	2.02	0.85
1:B:151:MET:C	1:C:91:GLN:CB	2.49	0.85
1:E:5:ASN:N	1:F:87:MET:CE	2.32	0.85
1:F:13:ALA:N	1:J:67:TRP:CE3	2.44	0.85
1:G:12:GLY:O	1:Q:66:ASP:CB	2.22	0.85
1:A:4:PRO:HG2	1:B:89:GLY:HA3	1.54	0.85
1:K:50:LEU:CB	1:L:129:LYS:N	2.38	0.85
1:M:134:LYS:O	1:R:8:MET:CE	2.23	0.85
1:P:51:THR:O	1:Q:127:ILE:O	1.94	0.85
1:Q:50:LEU:CB	1:R:129:LYS:N	2.38	0.85
1:C:54:SER:HB2	1:D:127:ILE:HG22	1.57	0.85
1:H:4:PRO:HG3	1:I:89:GLY:N	1.66	0.85
1:M:151:MET:CA	1:N:91:GLN:HG2	2.06	0.85
1:A:134:LYS:O	1:F:8:MET:HE1	1.75	0.85
1:D:111:ARG:NH2	1:H:66:ASP:N	2.20	0.85
1:G:131:VAL:CG2	1:L:49:GLU:CG	2.54	0.85
1:G:155:ARG:CD	1:H:91:GLN:HE22	1.89	0.85
1:K:152:ALA:CA	1:L:91:GLN:HB2	2.06	0.85
1:N:50:LEU:CD2	1:O:128:GLY:HA3	2.02	0.85
1:B:111:ARG:HH22	1:L:66:ASP:H	1.22	0.85
1:E:155:ARG:NE	1:F:91:GLN:NE2	2.24	0.85
1:G:38:ARG:HH22	1:L:152:ALA:CB	1.89	0.85
1:H:150:SER:OG	1:I:94:GLN:CD	2.19	0.85
1:J:51:THR:O	1:K:127:ILE:O	1.94	0.85
1:K:155:ARG:NE	1:L:91:GLN:NE2	2.24	0.85
1:N:150:SER:OG	1:O:94:GLN:CD	2.19	0.85
1:E:150:SER:OG	1:F:94:GLN:CD	2.20	0.85
1:N:155:ARG:NE	1:O:91:GLN:NE2	2.25	0.85
1:A:155:ARG:NE	1:B:91:GLN:HE22	1.74	0.85
1:B:113:PRO:HB3	1:L:66:ASP:CG	2.00	0.85
1:E:155:ARG:HE	1:F:91:GLN:NE2	1.74	0.85
1:G:148:ARG:HG2	1:H:93:GLN:NE2	1.91	0.85
1:J:151:MET:CA	1:K:91:GLN:HG2	2.05	0.85
1:C:49:GLU:OE1	1:D:131:VAL:CG2	2.15	0.84
1:D:51:THR:O	1:E:127:ILE:O	1.94	0.84
1:I:8:MET:HB3	1:J:134:LYS:HD3	0.88	0.84
1:Q:8:MET:SD	1:R:134:LYS:HD3	2.13	0.84
1:Q:155:ARG:NE	1:R:91:GLN:NE2	2.24	0.84
1:H:5:ASN:N	1:I:87:MET:CE	2.30	0.84
1:K:150:SER:OG	1:L:94:GLN:CD	2.20	0.84
1:O:54:SER:HB2	1:P:127:ILE:HG22	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:155:ARG:NE	1:I:91:GLN:NE2	2.25	0.84
1:I:151:MET:C	1:J:91:GLN:CB	2.45	0.84
1:J:13:ALA:N	1:N:68:THR:CA	2.39	0.84
1:B:111:ARG:NH2	1:L:66:ASP:OD1	1.94	0.84
1:E:47:PRO:HB3	1:F:132:THR:O	1.73	0.84
1:E:152:ALA:CA	1:F:91:GLN:HB2	2.07	0.84
1:N:49:GLU:CG	1:O:131:VAL:CG2	2.45	0.84
1:P:148:ARG:HG3	1:Q:93:GLN:HE22	1.40	0.84
1:H:8:MET:SD	1:I:134:LYS:HD3	2.13	0.84
1:H:50:LEU:CB	1:I:129:LYS:N	2.39	0.84
1:H:50:LEU:CD2	1:I:128:GLY:HA3	2.02	0.84
1:N:50:LEU:CB	1:O:129:LYS:N	2.39	0.84
1:Q:152:ALA:CA	1:R:91:GLN:HB2	2.06	0.84
1:A:56:ASP:OD1	1:B:123:TRP:CG	2.30	0.84
1:C:4:PRO:HG3	1:D:88:PRO:C	2.00	0.84
1:C:49:GLU:HG3	1:D:131:VAL:CG2	2.06	0.84
1:I:4:PRO:HG3	1:J:88:PRO:C	2.01	0.84
1:I:54:SER:HB2	1:J:127:ILE:HG22	1.58	0.84
1:M:123:TRP:CD2	1:R:56:ASP:OD1	2.30	0.84
1:B:12:GLY:HA2	1:L:67:TRP:HE3	1.41	0.84
1:H:12:GLY:HA2	1:R:67:TRP:HE3	1.40	0.84
1:J:8:MET:HB3	1:K:134:LYS:HD3	0.84	0.84
1:N:155:ARG:HE	1:O:91:GLN:NE2	1.75	0.84
1:P:5:ASN:C	1:Q:87:MET:HE2	2.02	0.84
1:Q:3:VAL:HG12	1:R:88:PRO:HG2	1.57	0.84
1:D:151:MET:C	1:E:91:GLN:CG	1.82	0.84
1:J:5:ASN:C	1:K:87:MET:HE2	2.02	0.84
1:J:8:MET:CB	1:K:134:LYS:CD	2.30	0.84
1:K:155:ARG:HE	1:L:91:GLN:NE2	1.74	0.84
1:M:150:SER:O	1:N:94:GLN:NE2	2.10	0.84
1:O:5:ASN:N	1:P:87:MET:CE	2.31	0.84
1:P:8:MET:HB3	1:Q:134:LYS:HD3	0.84	0.84
1:Q:5:ASN:N	1:R:87:MET:CE	2.32	0.84
1:Q:150:SER:OG	1:R:94:GLN:CD	2.20	0.84
1:A:5:ASN:O	1:B:87:MET:CE	2.25	0.84
1:B:155:ARG:HE	1:C:91:GLN:NE2	1.75	0.84
1:C:15:THR:O	1:G:67:TRP:HZ2	1.54	0.84
1:E:3:VAL:HG12	1:F:88:PRO:HG2	1.57	0.84
1:J:111:ARG:NH2	1:N:66:ASP:N	2.19	0.84
1:M:148:ARG:HG2	1:N:93:GLN:NE2	1.91	0.84
1:Q:47:PRO:HB3	1:R:132:THR:O	1.73	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:8:MET:HB3	1:E:134:LYS:HD3	0.84	0.84
1:G:150:SER:O	1:H:94:GLN:NE2	2.10	0.84
1:H:155:ARG:HE	1:I:91:GLN:NE2	1.74	0.84
1:E:50:LEU:HB2	1:F:129:LYS:CB	2.08	0.83
1:H:148:ARG:CZ	1:I:97:LEU:CD1	2.55	0.83
1:N:148:ARG:CZ	1:O:97:LEU:CD1	2.55	0.83
1:P:9:PRO:HD2	1:Q:135:GLU:OE1	1.78	0.83
1:D:152:ALA:HB2	1:E:91:GLN:HB2	0.87	0.83
1:F:113:PRO:HB3	1:J:66:ASP:CG	2.04	0.83
1:M:38:ARG:HH22	1:R:152:ALA:CB	1.89	0.83
1:M:155:ARG:CD	1:N:91:GLN:HE22	1.89	0.83
1:Q:50:LEU:HB2	1:R:129:LYS:CB	2.08	0.83
1:B:50:LEU:HB2	1:C:129:LYS:CB	2.09	0.83
1:C:148:ARG:CZ	1:D:97:LEU:CD1	2.56	0.83
1:E:9:PRO:HD2	1:F:135:GLU:OE1	1.79	0.83
1:G:50:LEU:HB2	1:H:129:LYS:CA	2.08	0.83
1:I:148:ARG:CZ	1:J:97:LEU:CD1	2.56	0.83
1:N:3:VAL:HG12	1:O:88:PRO:HG2	1.57	0.83
1:N:50:LEU:HB2	1:O:129:LYS:CB	2.09	0.83
1:P:8:MET:HB3	1:Q:134:LYS:CE	2.08	0.83
1:D:4:PRO:HG3	1:E:88:PRO:C	2.00	0.83
1:D:155:ARG:HE	1:E:91:GLN:HE22	1.26	0.83
1:G:134:LYS:HB3	1:L:8:MET:HE2	1.60	0.83
1:H:3:VAL:HG12	1:I:88:PRO:HG2	1.57	0.83
1:J:12:GLY:HA2	1:N:67:TRP:HE3	1.44	0.83
1:O:59:TYR:CD1	1:P:123:TRP:NE1	2.40	0.83
1:G:123:TRP:CD2	1:L:56:ASP:OD1	2.30	0.83
1:J:4:PRO:HG3	1:K:88:PRO:C	2.00	0.83
1:J:8:MET:HB3	1:K:134:LYS:CE	2.08	0.83
1:J:9:PRO:HD2	1:K:135:GLU:OE1	1.78	0.83
1:K:50:LEU:HB2	1:L:129:LYS:CB	2.08	0.83
1:L:12:GLY:O	1:P:66:ASP:CB	2.21	0.83
1:P:4:PRO:HG3	1:Q:88:PRO:C	2.00	0.83
1:I:49:GLU:HG3	1:J:131:VAL:CG2	2.06	0.83
1:L:13:ALA:N	1:P:67:TRP:CE3	2.45	0.83
1:B:155:ARG:NE	1:C:91:GLN:NE2	2.25	0.83
1:O:4:PRO:HG3	1:P:88:PRO:C	2.00	0.83
1:O:148:ARG:CZ	1:P:97:LEU:CD1	2.56	0.83
1:Q:59:TYR:CD1	1:R:123:TRP:NE1	2.41	0.83
1:Q:155:ARG:CD	1:R:91:GLN:NE2	2.42	0.83
1:A:8:MET:CE	1:B:134:LYS:CB	2.56	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:48:GLY:HA3	1:B:129:LYS:CE	2.09	0.83
1:J:5:ASN:N	1:K:87:MET:CE	2.27	0.83
1:A:8:MET:HB3	1:B:134:LYS:HD3	0.83	0.83
1:D:8:MET:HB3	1:E:134:LYS:CE	2.08	0.83
1:D:13:ALA:N	1:H:68:THR:CA	2.39	0.83
1:G:52:ALA:CB	1:H:127:ILE:N	2.41	0.83
1:L:13:ALA:H	1:P:68:THR:CA	1.91	0.83
1:A:134:LYS:HB3	1:F:8:MET:HE2	1.60	0.83
1:B:50:LEU:CB	1:C:129:LYS:N	2.39	0.83
1:C:151:MET:C	1:D:91:GLN:CB	2.45	0.83
1:J:155:ARG:HE	1:K:91:GLN:HE22	1.26	0.83
1:K:155:ARG:CD	1:L:91:GLN:NE2	2.42	0.83
1:M:127:ILE:O	1:R:51:THR:O	1.97	0.83
1:A:52:ALA:HB2	1:B:127:ILE:O	1.78	0.82
1:B:9:PRO:HD2	1:C:135:GLU:OE1	1.79	0.82
1:B:148:ARG:CZ	1:C:97:LEU:CD1	2.55	0.82
1:G:127:ILE:O	1:L:51:THR:O	1.97	0.82
1:K:47:PRO:HB3	1:L:132:THR:O	1.73	0.82
1:K:49:GLU:HG3	1:L:131:VAL:CG2	2.09	0.82
1:M:52:ALA:CB	1:N:127:ILE:N	2.41	0.82
1:A:151:MET:C	1:B:91:GLN:CG	1.85	0.82
1:D:9:PRO:HD2	1:E:135:GLU:OE1	1.78	0.82
1:E:49:GLU:HG3	1:F:131:VAL:CG2	2.09	0.82
1:G:52:ALA:HB2	1:H:127:ILE:N	1.94	0.82
1:M:8:MET:CB	1:N:134:LYS:CD	2.36	0.82
1:B:13:ALA:N	1:L:68:THR:CA	2.41	0.82
1:E:13:ALA:O	1:I:66:ASP:O	1.88	0.82
1:I:47:PRO:HB3	1:J:132:THR:O	1.74	0.82
1:M:38:ARG:NH2	1:R:152:ALA:HB1	1.94	0.82
1:O:49:GLU:HG3	1:P:131:VAL:CG2	2.05	0.82
1:B:49:GLU:HG3	1:C:131:VAL:CG2	2.09	0.82
1:G:12:GLY:O	1:Q:67:TRP:CE3	2.33	0.82
1:H:111:ARG:HH22	1:R:66:ASP:H	1.24	0.82
1:H:113:PRO:CB	1:R:66:ASP:OD1	2.27	0.82
1:K:9:PRO:HD2	1:L:135:GLU:OE1	1.79	0.82
1:L:13:ALA:O	1:P:66:ASP:O	1.96	0.82
1:Q:54:SER:HB2	1:R:127:ILE:HG22	1.60	0.82
1:E:54:SER:HB2	1:F:127:ILE:HG22	1.60	0.82
1:E:148:ARG:CZ	1:F:97:LEU:CD1	2.58	0.82
1:G:38:ARG:NH2	1:L:152:ALA:HB1	1.94	0.82
1:B:49:GLU:CD	1:C:131:VAL:HG22	1.99	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:134:LYS:CB	1:L:8:MET:CE	2.57	0.82
1:H:49:GLU:HG3	1:I:131:VAL:CG2	2.09	0.82
1:K:113:PRO:HB3	1:O:66:ASP:CG	2.03	0.82
1:M:134:LYS:HB3	1:R:8:MET:HE2	1.60	0.82
1:M:155:ARG:HE	1:N:91:GLN:HE22	1.25	0.82
1:Q:9:PRO:HD2	1:R:135:GLU:OE1	1.79	0.82
1:D:5:ASN:C	1:E:87:MET:HE2	2.03	0.82
1:H:50:LEU:HB2	1:I:129:LYS:CB	2.09	0.82
1:K:111:ARG:HH22	1:O:66:ASP:H	1.23	0.82
1:L:113:PRO:HB3	1:P:66:ASP:CG	2.03	0.82
1:A:155:ARG:CD	1:B:91:GLN:HE22	1.92	0.82
1:B:47:PRO:HB3	1:C:132:THR:O	1.74	0.82
1:E:48:GLY:HA3	1:F:129:LYS:HE3	1.62	0.82
1:G:91:GLN:NE2	1:L:155:ARG:NE	2.28	0.82
1:K:148:ARG:CZ	1:L:97:LEU:CD1	2.58	0.82
1:N:9:PRO:HD2	1:O:135:GLU:OE1	1.79	0.82
1:E:155:ARG:CD	1:F:91:GLN:NE2	2.42	0.82
1:A:48:GLY:HA3	1:B:129:LYS:NZ	1.95	0.82
1:H:13:ALA:N	1:R:68:THR:CA	2.43	0.82
1:L:111:ARG:HH22	1:P:66:ASP:H	1.24	0.82
1:P:155:ARG:HE	1:Q:91:GLN:HE22	1.26	0.82
1:C:8:MET:CB	1:D:134:LYS:CD	2.38	0.81
1:C:152:ALA:HB2	1:D:91:GLN:HB2	0.82	0.81
1:D:12:GLY:HA2	1:H:67:TRP:HE3	1.45	0.81
1:F:13:ALA:O	1:J:66:ASP:O	1.95	0.81
1:G:8:MET:CB	1:H:134:LYS:CD	2.36	0.81
1:I:3:VAL:HG12	1:J:88:PRO:HG2	1.62	0.81
1:M:50:LEU:HB2	1:N:129:LYS:CA	2.08	0.81
1:N:49:GLU:HG3	1:O:131:VAL:CG2	2.09	0.81
1:O:47:PRO:HB3	1:P:132:THR:O	1.74	0.81
1:E:12:GLY:HA2	1:I:67:TRP:HE3	1.46	0.81
1:H:9:PRO:HD2	1:I:135:GLU:OE1	1.79	0.81
1:K:48:GLY:HA3	1:L:129:LYS:HE3	1.62	0.81
1:Q:148:ARG:CZ	1:R:97:LEU:CD1	2.58	0.81
1:A:151:MET:C	1:B:91:GLN:CB	2.50	0.81
1:B:59:TYR:CD1	1:C:123:TRP:NE1	2.41	0.81
1:C:3:VAL:HG12	1:D:88:PRO:HG2	1.62	0.81
1:D:48:GLY:HA3	1:E:129:LYS:HE3	1.62	0.81
1:E:111:ARG:HH22	1:I:66:ASP:H	1.25	0.81
1:H:12:GLY:HA2	1:R:67:TRP:CE3	2.13	0.81
1:K:4:PRO:CG	1:L:89:GLY:CA	2.04	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:151:MET:CA	1:D:91:GLN:HG2	2.11	0.81
1:K:59:TYR:CD1	1:L:123:TRP:NE1	2.42	0.81
1:M:3:VAL:HG12	1:N:88:PRO:HG2	1.61	0.81
1:M:131:VAL:CG2	1:R:49:GLU:CG	2.54	0.81
1:M:134:LYS:CB	1:R:8:MET:CE	2.56	0.81
1:A:4:PRO:CG	1:B:88:PRO:C	2.52	0.81
1:A:8:MET:SD	1:B:134:LYS:HB2	2.19	0.81
1:E:113:PRO:HB3	1:I:66:ASP:CG	2.06	0.81
1:I:152:ALA:HB2	1:J:91:GLN:HB2	0.83	0.81
1:J:151:MET:C	1:K:91:GLN:CG	1.82	0.81
1:K:54:SER:HB2	1:L:127:ILE:HG22	1.60	0.81
1:M:49:GLU:HG3	1:N:131:VAL:CG2	2.04	0.81
1:O:3:VAL:HG12	1:P:88:PRO:HG2	1.62	0.81
1:O:152:ALA:HB2	1:P:91:GLN:HB2	0.82	0.81
1:J:48:GLY:C	1:K:129:LYS:CG	2.47	0.81
1:O:5:ASN:C	1:P:87:MET:HE2	2.05	0.81
1:C:59:TYR:CD1	1:D:123:TRP:NE1	2.40	0.81
1:G:129:LYS:CB	1:L:50:LEU:HB2	2.11	0.81
1:I:150:SER:OG	1:J:94:GLN:CD	2.23	0.81
1:K:12:GLY:HA2	1:O:67:TRP:HE3	1.46	0.81
1:M:52:ALA:HB2	1:N:127:ILE:N	1.94	0.81
1:N:155:ARG:CD	1:O:91:GLN:NE2	2.43	0.81
1:G:52:ALA:HB2	1:H:127:ILE:O	1.80	0.81
1:H:54:SER:HB2	1:I:127:ILE:HG22	1.62	0.81
1:J:48:GLY:HA3	1:K:129:LYS:HE3	1.62	0.81
1:O:150:SER:OG	1:P:94:GLN:CD	2.23	0.81
1:C:8:MET:SD	1:D:134:LYS:HD3	2.12	0.81
1:H:155:ARG:CD	1:I:91:GLN:NE2	2.43	0.81
1:A:150:SER:OG	1:B:94:GLN:CD	2.24	0.81
1:C:150:SER:OG	1:D:94:GLN:CD	2.23	0.81
1:D:13:ALA:N	1:H:68:THR:CB	2.44	0.81
1:N:151:MET:C	1:O:91:GLN:CB	2.49	0.81
1:O:151:MET:CA	1:P:91:GLN:HG2	2.10	0.81
1:B:54:SER:HB2	1:C:127:ILE:HG22	1.62	0.80
1:M:56:ASP:OD1	1:N:123:TRP:CG	2.35	0.80
1:M:129:LYS:CB	1:R:50:LEU:HB2	2.11	0.80
1:O:50:LEU:HB2	1:P:129:LYS:HB3	1.63	0.80
1:E:13:ALA:N	1:I:68:THR:CA	2.45	0.80
1:I:5:ASN:C	1:J:87:MET:HE2	2.05	0.80
1:M:52:ALA:HB2	1:N:127:ILE:O	1.80	0.80
1:M:91:GLN:NE2	1:R:155:ARG:NE	2.28	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:48:GLY:HA3	1:Q:129:LYS:HE3	1.63	0.80
1:P:54:SER:HB2	1:Q:127:ILE:HG22	1.63	0.80
1:A:48:GLY:HA3	1:B:129:LYS:HE3	1.63	0.80
1:A:150:SER:O	1:B:94:GLN:NE2	2.13	0.80
1:D:50:LEU:HB2	1:E:129:LYS:CB	2.12	0.80
1:M:93:GLN:HE22	1:R:148:ARG:HG2	1.45	0.80
1:N:54:SER:HB2	1:O:127:ILE:HG22	1.62	0.80
1:B:113:PRO:CB	1:L:66:ASP:OD1	2.27	0.80
1:B:155:ARG:CD	1:C:91:GLN:NE2	2.43	0.80
1:G:151:MET:C	1:H:91:GLN:CB	2.50	0.80
1:G:155:ARG:HE	1:H:91:GLN:HE22	1.25	0.80
1:I:50:LEU:HB2	1:J:129:LYS:HB3	1.63	0.80
1:K:8:MET:SD	1:L:134:LYS:HD3	2.13	0.80
1:M:127:ILE:HG22	1:R:54:SER:HB2	1.63	0.80
1:F:111:ARG:HH22	1:J:66:ASP:H	1.25	0.80
1:G:56:ASP:OD1	1:H:123:TRP:CG	2.34	0.80
1:G:93:GLN:HE22	1:L:148:ARG:HG2	1.45	0.80
1:K:13:ALA:N	1:O:67:TRP:CE3	2.50	0.80
1:M:48:GLY:HA3	1:N:129:LYS:CE	2.11	0.80
1:M:123:TRP:NE1	1:R:59:TYR:CD1	2.40	0.80
1:M:134:LYS:O	1:R:8:MET:HE1	1.81	0.80
1:M:152:ALA:CA	1:N:91:GLN:HB2	2.12	0.80
1:A:3:VAL:HG12	1:B:88:PRO:HG2	1.61	0.80
1:G:3:VAL:HG12	1:H:88:PRO:HG2	1.61	0.80
1:J:47:PRO:HB3	1:K:132:THR:O	1.79	0.80
1:M:151:MET:C	1:N:91:GLN:CB	2.50	0.80
1:Q:48:GLY:HA3	1:R:129:LYS:HE3	1.62	0.80
1:D:59:TYR:HD1	1:E:123:TRP:HE1	1.26	0.80
1:E:13:ALA:N	1:I:68:THR:CB	2.45	0.80
1:G:48:GLY:HA3	1:H:129:LYS:HE3	1.64	0.80
1:I:13:ALA:O	1:M:66:ASP:O	1.83	0.80
1:M:8:MET:HB3	1:N:134:LYS:HD3	0.80	0.80
1:O:8:MET:SD	1:P:134:LYS:HD3	2.12	0.80
1:A:127:ILE:O	1:F:52:ALA:HB2	1.82	0.80
1:E:13:ALA:N	1:I:67:TRP:CE3	2.49	0.80
1:G:150:SER:OG	1:H:94:GLN:CD	2.24	0.80
1:H:151:MET:C	1:I:91:GLN:CG	1.92	0.80
1:K:111:ARG:NH2	1:O:66:ASP:N	2.25	0.80
1:L:13:ALA:N	1:P:68:THR:CA	2.44	0.80
1:A:134:LYS:O	1:F:8:MET:HE2	1.82	0.80
1:C:5:ASN:C	1:D:87:MET:HE2	2.05	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:50:LEU:HB2	1:D:129:LYS:HB3	1.63	0.80
1:G:123:TRP:NE1	1:L:59:TYR:CD1	2.40	0.80
1:G:131:VAL:CG2	1:L:49:GLU:HG3	2.11	0.80
1:J:113:PRO:CB	1:N:66:ASP:OD1	2.28	0.80
1:N:59:TYR:CD1	1:O:123:TRP:NE1	2.41	0.80
1:A:128:GLY:CA	1:F:50:LEU:HD23	2.07	0.80
1:B:8:MET:SD	1:C:134:LYS:HD3	2.13	0.80
1:C:12:GLY:CA	1:G:68:THR:CG2	2.58	0.80
1:C:148:ARG:HG2	1:D:93:GLN:NE2	1.97	0.80
1:G:127:ILE:O	1:L:52:ALA:HB2	1.82	0.80
1:I:8:MET:SD	1:J:134:LYS:HD3	2.12	0.80
1:M:127:ILE:O	1:R:52:ALA:HB2	1.82	0.80
1:N:5:ASN:N	1:O:87:MET:CE	2.30	0.80
1:H:59:TYR:CD1	1:I:123:TRP:NE1	2.41	0.79
1:J:50:LEU:HB2	1:K:129:LYS:CB	2.12	0.79
1:K:13:ALA:N	1:O:68:THR:CB	2.45	0.79
1:M:132:THR:O	1:R:47:PRO:HB3	1.74	0.79
1:P:8:MET:SD	1:Q:134:LYS:HD3	2.11	0.79
1:P:148:ARG:HG2	1:Q:93:GLN:NE2	1.97	0.79
1:A:155:ARG:HD3	1:B:89:GLY:O	1.81	0.79
1:J:3:VAL:CG1	1:K:88:PRO:CG	2.59	0.79
1:P:3:VAL:CG1	1:Q:88:PRO:CG	2.59	0.79
1:P:50:LEU:HB2	1:Q:129:LYS:CB	2.12	0.79
1:D:148:ARG:HG2	1:E:93:GLN:NE2	1.97	0.79
1:G:8:MET:HB3	1:H:134:LYS:HD3	0.80	0.79
1:M:150:SER:OG	1:N:94:GLN:CD	2.24	0.79
1:D:8:MET:CB	1:E:134:LYS:CD	2.30	0.79
1:G:127:ILE:HG22	1:L:54:SER:HB2	1.63	0.79
1:H:151:MET:C	1:I:91:GLN:CB	2.49	0.79
1:J:59:TYR:CD1	1:K:123:TRP:NE1	2.50	0.79
1:K:13:ALA:N	1:O:68:THR:CA	2.43	0.79
1:N:4:PRO:HG3	1:O:89:GLY:N	1.66	0.79
1:P:8:MET:CB	1:Q:134:LYS:CD	2.30	0.79
1:A:128:GLY:HA3	1:F:50:LEU:CD2	2.10	0.79
1:J:111:ARG:HH22	1:N:66:ASP:CG	1.53	0.79
1:B:13:ALA:H	1:L:68:THR:CA	1.86	0.79
1:C:148:ARG:HG3	1:D:93:GLN:HE22	1.48	0.79
1:D:3:VAL:CG1	1:E:88:PRO:CG	2.59	0.79
1:E:151:MET:C	1:F:91:GLN:CB	2.52	0.79
1:G:93:GLN:HE22	1:L:148:ARG:HG3	1.47	0.79
1:G:134:LYS:O	1:L:8:MET:HE1	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:152:ALA:CA	1:H:91:GLN:HB2	2.12	0.79
1:Q:151:MET:C	1:R:91:GLN:CB	2.52	0.79
1:G:48:GLY:HA3	1:H:129:LYS:CE	2.11	0.79
1:I:148:ARG:HG2	1:J:93:GLN:NE2	1.97	0.79
1:O:148:ARG:HG2	1:P:93:GLN:NE2	1.96	0.79
1:A:111:ARG:NH2	1:K:66:ASP:HA	1.96	0.79
1:D:59:TYR:CD1	1:E:123:TRP:NE1	2.50	0.79
1:A:91:GLN:NE2	1:F:155:ARG:HE	1.81	0.79
1:C:5:ASN:N	1:D:87:MET:CE	2.31	0.79
1:D:54:SER:HB2	1:E:127:ILE:HG22	1.63	0.79
1:A:127:ILE:O	1:F:51:THR:O	2.01	0.79
1:C:15:THR:O	1:G:67:TRP:CE2	2.32	0.79
1:G:4:PRO:HG3	1:H:88:PRO:C	2.08	0.79
1:H:48:GLY:HA3	1:I:129:LYS:HE3	1.64	0.79
1:I:12:GLY:O	1:M:66:ASP:CB	2.29	0.79
1:B:48:GLY:HA3	1:C:129:LYS:HE3	1.64	0.78
1:D:54:SER:OG	1:E:124:VAL:O	2.01	0.78
1:J:148:ARG:HG2	1:K:93:GLN:NE2	1.97	0.78
1:J:48:GLY:HA3	1:K:129:LYS:CE	2.14	0.78
1:J:54:SER:HB2	1:K:127:ILE:HG22	1.63	0.78
1:Q:51:THR:O	1:R:127:ILE:O	2.02	0.78
1:A:12:GLY:CA	1:K:68:THR:CG2	2.58	0.78
1:A:127:ILE:HG22	1:F:54:SER:HB2	1.65	0.78
1:B:8:MET:CB	1:C:134:LYS:CD	2.39	0.78
1:E:52:ALA:HB2	1:F:127:ILE:O	1.84	0.78
1:G:135:GLU:OE1	1:L:9:PRO:HD2	1.84	0.78
1:I:151:MET:CA	1:J:91:GLN:HG2	2.11	0.78
1:K:52:ALA:HB2	1:L:127:ILE:O	1.84	0.78
1:O:50:LEU:HB2	1:P:129:LYS:CA	2.14	0.78
1:G:12:GLY:CA	1:Q:67:TRP:CE3	2.66	0.78
1:G:134:LYS:HD2	1:L:8:MET:SD	2.23	0.78
1:K:151:MET:C	1:L:91:GLN:CB	2.52	0.78
1:M:131:VAL:CG2	1:R:49:GLU:HG3	2.12	0.78
1:D:13:ALA:N	1:H:67:TRP:CE3	2.52	0.78
1:I:50:LEU:HB2	1:J:129:LYS:CA	2.14	0.78
1:K:51:THR:O	1:L:127:ILE:O	2.02	0.78
1:L:13:ALA:N	1:P:68:THR:CB	2.46	0.78
1:E:8:MET:SD	1:F:134:LYS:HD3	2.13	0.78
1:H:8:MET:CB	1:I:134:LYS:CD	2.39	0.78
1:I:148:ARG:HG3	1:J:93:GLN:HE22	1.48	0.78
1:M:48:GLY:HA3	1:N:129:LYS:HE3	1.63	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:10:VAL:HG22	1:B:134:LYS:HE3	1.64	0.78
1:A:123:TRP:CD2	1:F:56:ASP:OD1	2.36	0.78
1:B:51:THR:O	1:C:127:ILE:O	2.02	0.78
1:C:51:THR:O	1:D:127:ILE:O	2.01	0.78
1:G:12:GLY:CA	1:Q:67:TRP:HE3	1.97	0.78
1:I:52:ALA:HB2	1:J:127:ILE:O	1.83	0.78
1:J:4:PRO:N	1:K:88:PRO:O	2.16	0.78
1:C:47:PRO:HB3	1:D:132:THR:O	1.74	0.78
1:F:13:ALA:N	1:J:68:THR:CA	2.45	0.78
1:G:97:LEU:CD1	1:L:148:ARG:CZ	2.62	0.78
1:H:51:THR:O	1:I:127:ILE:O	2.02	0.78
1:J:13:ALA:N	1:N:67:TRP:CE3	2.52	0.78
1:J:13:ALA:O	1:N:66:ASP:O	1.96	0.78
1:J:54:SER:OG	1:K:124:VAL:O	2.01	0.78
1:M:93:GLN:HE22	1:R:148:ARG:HG3	1.47	0.78
1:M:135:GLU:OE1	1:R:9:PRO:HD2	1.84	0.78
1:Q:52:ALA:HB2	1:R:127:ILE:O	1.84	0.78
1:M:97:LEU:CD1	1:R:148:ARG:CZ	2.62	0.78
1:O:52:ALA:HB2	1:P:127:ILE:O	1.83	0.78
1:A:148:ARG:CZ	1:B:97:LEU:CD1	2.62	0.78
1:A:152:ALA:HB2	1:B:91:GLN:HB2	0.81	0.78
1:E:15:THR:O	1:I:67:TRP:CZ2	2.37	0.78
1:E:48:GLY:C	1:F:129:LYS:CG	2.50	0.78
1:G:129:LYS:NZ	1:L:48:GLY:HA3	1.99	0.78
1:P:48:GLY:HA3	1:Q:129:LYS:CE	2.14	0.78
1:A:54:SER:OG	1:B:124:VAL:O	2.00	0.77
1:A:134:LYS:HD2	1:F:8:MET:SD	2.23	0.77
1:C:52:ALA:HB2	1:D:127:ILE:O	1.83	0.77
1:C:59:TYR:HD1	1:D:123:TRP:CD1	2.03	0.77
1:E:111:ARG:NH2	1:I:66:ASP:N	2.28	0.77
1:C:50:LEU:HB2	1:D:129:LYS:CA	2.14	0.77
1:D:48:GLY:HA3	1:E:129:LYS:CE	2.14	0.77
1:I:59:TYR:HD1	1:J:123:TRP:CD1	2.03	0.77
1:J:13:ALA:N	1:N:68:THR:CB	2.46	0.77
1:N:48:GLY:HA3	1:O:129:LYS:HE3	1.64	0.77
1:O:51:THR:O	1:P:127:ILE:O	2.01	0.77
1:I:51:THR:O	1:J:127:ILE:O	2.01	0.77
1:K:13:ALA:O	1:O:66:ASP:O	1.91	0.77
1:O:59:TYR:HD1	1:P:123:TRP:CD1	2.03	0.77
1:B:3:VAL:CG1	1:C:88:PRO:CG	2.62	0.77
1:E:51:THR:O	1:F:127:ILE:O	2.02	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:8:MET:SD	1:K:134:LYS:HD3	2.11	0.77
1:M:129:LYS:NZ	1:R:48:GLY:HA3	1.99	0.77
1:A:129:LYS:CB	1:F:50:LEU:HB2	2.15	0.77
1:E:12:GLY:HA2	1:I:67:TRP:CE3	2.17	0.77
1:G:148:ARG:CZ	1:H:97:LEU:CD1	2.62	0.77
1:K:12:GLY:HA2	1:O:67:TRP:CE3	2.19	0.77
1:L:15:THR:O	1:P:67:TRP:CZ2	2.37	0.77
1:P:54:SER:OG	1:Q:124:VAL:O	2.01	0.77
1:G:134:LYS:HE3	1:L:10:VAL:HG22	1.66	0.77
1:M:4:PRO:HG3	1:N:88:PRO:C	2.08	0.77
1:N:51:THR:O	1:O:127:ILE:O	2.02	0.77
1:K:5:ASN:N	1:L:87:MET:CE	2.32	0.77
1:K:8:MET:CE	1:L:134:LYS:O	2.33	0.77
1:D:113:PRO:CB	1:H:66:ASP:OD1	2.31	0.77
1:P:4:PRO:N	1:Q:88:PRO:O	2.17	0.77
1:A:50:LEU:H	1:B:129:LYS:C	1.93	0.77
1:A:132:THR:O	1:F:47:PRO:HB3	1.75	0.77
1:B:12:GLY:HA2	1:L:67:TRP:CE3	2.15	0.77
1:D:15:THR:O	1:H:67:TRP:CZ2	2.38	0.77
1:E:151:MET:C	1:F:91:GLN:CG	1.95	0.77
1:F:12:GLY:HA2	1:J:67:TRP:HE3	1.50	0.77
1:H:13:ALA:N	1:R:67:TRP:CE3	2.52	0.77
1:M:148:ARG:CZ	1:N:97:LEU:CD1	2.62	0.77
1:O:155:ARG:HE	1:P:91:GLN:NE2	1.82	0.77
1:C:155:ARG:HE	1:D:91:GLN:NE2	1.82	0.77
1:M:134:LYS:HD2	1:R:8:MET:SD	2.23	0.77
1:O:148:ARG:HG3	1:P:93:GLN:HE22	1.48	0.77
1:Q:49:GLU:HG3	1:R:131:VAL:CG2	2.10	0.77
1:A:38:ARG:HH22	1:F:152:ALA:CB	1.97	0.76
1:A:123:TRP:CD1	1:F:59:TYR:HD1	2.02	0.76
1:E:8:MET:CE	1:F:134:LYS:O	2.33	0.76
1:H:13:ALA:N	1:R:68:THR:CB	2.48	0.76
1:A:4:PRO:CB	1:B:88:PRO:C	2.51	0.76
1:E:48:GLY:HA3	1:F:129:LYS:CE	2.15	0.76
1:F:13:ALA:N	1:J:68:THR:CB	2.47	0.76
1:H:13:ALA:O	1:R:66:ASP:O	1.89	0.76
1:K:3:VAL:CG1	1:L:88:PRO:CG	2.64	0.76
1:K:15:THR:O	1:O:67:TRP:CZ2	2.37	0.76
1:P:47:PRO:HB3	1:Q:132:THR:O	1.79	0.76
1:Q:8:MET:CE	1:R:134:LYS:O	2.33	0.76
1:A:91:GLN:HE22	1:F:155:ARG:HE	1.30	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:48:GLY:C	1:E:129:LYS:CG	2.47	0.76
1:G:8:MET:HB3	1:H:134:LYS:CE	2.15	0.76
1:H:48:GLY:C	1:I:129:LYS:CG	2.52	0.76
1:M:3:VAL:CG1	1:N:88:PRO:CG	2.63	0.76
1:M:48:GLY:HA3	1:N:129:LYS:NZ	2.01	0.76
1:E:59:TYR:HD1	1:F:123:TRP:CD1	2.03	0.76
1:H:3:VAL:CG1	1:I:88:PRO:CG	2.62	0.76
1:K:59:TYR:HD1	1:L:123:TRP:CD1	2.03	0.76
1:K:113:PRO:CB	1:O:66:ASP:OD1	2.32	0.76
1:N:8:MET:SD	1:O:134:LYS:HD3	2.13	0.76
1:O:48:GLY:HA3	1:P:129:LYS:HE3	1.68	0.76
1:B:50:LEU:HB2	1:C:129:LYS:HB3	1.68	0.76
1:B:111:ARG:NH2	1:L:66:ASP:N	2.23	0.76
1:C:12:GLY:O	1:G:66:ASP:CB	2.31	0.76
1:D:4:PRO:N	1:E:88:PRO:O	2.16	0.76
1:D:8:MET:SD	1:E:134:LYS:HD3	2.11	0.76
1:F:15:THR:O	1:J:67:TRP:CZ2	2.38	0.76
1:Q:59:TYR:HD1	1:R:123:TRP:CD1	2.03	0.76
1:E:113:PRO:CB	1:I:66:ASP:OD1	2.33	0.76
1:I:48:GLY:HA3	1:J:129:LYS:HE3	1.68	0.76
1:I:151:MET:C	1:J:91:GLN:CG	1.84	0.76
1:M:8:MET:HB3	1:N:134:LYS:CE	2.14	0.76
1:M:151:MET:C	1:N:91:GLN:CG	1.85	0.76
1:A:155:ARG:HE	1:B:91:GLN:HE22	1.32	0.76
1:B:4:PRO:CG	1:C:89:GLY:CA	2.05	0.76
1:I:8:MET:HB3	1:J:134:LYS:CE	2.15	0.76
1:I:155:ARG:HE	1:J:91:GLN:NE2	1.82	0.76
1:N:3:VAL:CG1	1:O:88:PRO:CG	2.62	0.76
1:Q:3:VAL:CG1	1:R:88:PRO:CG	2.64	0.76
1:B:13:ALA:N	1:L:67:TRP:CE3	2.54	0.76
1:H:50:LEU:HB2	1:I:129:LYS:HB3	1.68	0.76
1:Q:4:PRO:CG	1:R:89:GLY:CA	2.04	0.76
1:A:89:GLY:O	1:F:155:ARG:HD3	1.86	0.76
1:A:152:ALA:CA	1:B:91:GLN:HB2	2.16	0.76
1:B:151:MET:C	1:C:91:GLN:CG	1.92	0.76
1:I:8:MET:CB	1:J:134:LYS:CD	2.38	0.76
1:I:15:THR:O	1:M:67:TRP:CE2	2.35	0.76
1:E:3:VAL:CG1	1:F:88:PRO:CG	2.64	0.76
1:G:148:ARG:CG	1:H:93:GLN:NE2	2.44	0.76
1:J:59:TYR:HD1	1:K:123:TRP:HE1	1.26	0.76
1:L:111:ARG:NH2	1:P:66:ASP:N	2.26	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:134:LYS:HE3	1:R:10:VAL:HG22	1.66	0.76
1:A:10:VAL:HG22	1:B:134:LYS:CE	2.16	0.75
1:G:135:GLU:CG	1:L:114:ASN:HB3	2.15	0.75
1:N:151:MET:C	1:O:91:GLN:CG	1.92	0.75
1:A:3:VAL:CG1	1:B:88:PRO:CG	2.63	0.75
1:D:49:GLU:HG3	1:E:131:VAL:CG2	2.12	0.75
1:F:111:ARG:NH2	1:J:66:ASP:N	2.27	0.75
1:G:48:GLY:HA3	1:H:129:LYS:NZ	2.01	0.75
1:K:48:GLY:HA3	1:L:129:LYS:CE	2.16	0.75
1:N:50:LEU:HB2	1:O:129:LYS:HB3	1.68	0.75
1:G:5:ASN:C	1:H:87:MET:HE2	2.11	0.75
1:H:8:MET:CE	1:I:134:LYS:O	2.35	0.75
1:A:12:GLY:O	1:K:67:TRP:CE3	2.40	0.75
1:B:15:THR:O	1:L:67:TRP:CZ2	2.40	0.75
1:C:155:ARG:NE	1:D:91:GLN:NE2	2.35	0.75
1:D:50:LEU:HB2	1:E:129:LYS:CA	2.16	0.75
1:G:13:ALA:O	1:Q:66:ASP:O	1.90	0.75
1:H:12:GLY:CA	1:R:68:THR:OG1	2.33	0.75
1:N:8:MET:CB	1:O:134:LYS:CD	2.39	0.75
1:D:8:MET:SD	1:E:134:LYS:CG	2.75	0.75
1:F:12:GLY:HA2	1:J:67:TRP:CE3	2.21	0.75
1:G:59:TYR:HD1	1:H:123:TRP:NE1	1.83	0.75
1:G:152:ALA:HB2	1:H:91:GLN:HB2	0.80	0.75
1:I:155:ARG:NE	1:J:91:GLN:NE2	2.35	0.75
1:J:8:MET:SD	1:K:134:LYS:CG	2.75	0.75
1:M:152:ALA:HB2	1:N:91:GLN:HB2	0.80	0.75
1:F:13:ALA:H	1:J:68:THR:CA	1.93	0.75
1:O:8:MET:CB	1:P:134:LYS:CD	2.38	0.75
1:O:8:MET:HB3	1:P:134:LYS:CE	2.15	0.75
1:A:131:VAL:CG2	1:F:49:GLU:CG	2.61	0.75
1:B:52:ALA:HB2	1:C:127:ILE:O	1.86	0.75
1:G:5:ASN:N	1:H:87:MET:CE	2.34	0.75
1:I:3:VAL:CG1	1:J:88:PRO:CG	2.65	0.75
1:J:50:LEU:HB2	1:K:129:LYS:CA	2.16	0.75
1:J:56:ASP:OD1	1:K:123:TRP:CG	2.40	0.75
1:M:59:TYR:HD1	1:N:123:TRP:NE1	1.83	0.75
1:O:155:ARG:NE	1:P:91:GLN:NE2	2.35	0.75
1:B:48:GLY:HA3	1:C:129:LYS:CE	2.17	0.75
1:C:8:MET:HB3	1:D:134:LYS:CE	2.15	0.75
1:H:4:PRO:CG	1:I:89:GLY:CA	2.05	0.75
1:J:12:GLY:HA2	1:N:67:TRP:CE3	2.18	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:50:LEU:HB2	1:L:129:LYS:HB3	1.68	0.75
1:M:56:ASP:O	1:N:103:GLY:O	2.05	0.75
1:P:56:ASP:OD1	1:Q:123:TRP:CG	2.40	0.75
1:A:38:ARG:NH2	1:F:152:ALA:HB1	2.01	0.74
1:B:59:TYR:HD1	1:C:123:TRP:CD1	2.05	0.74
1:D:47:PRO:HB3	1:E:132:THR:O	1.79	0.74
1:F:12:GLY:C	1:J:67:TRP:CZ3	2.65	0.74
1:G:56:ASP:O	1:H:103:GLY:O	2.05	0.74
1:H:59:TYR:HD1	1:I:123:TRP:CD1	2.05	0.74
1:J:49:GLU:HG3	1:K:131:VAL:CG2	2.12	0.74
1:M:5:ASN:N	1:N:87:MET:CE	2.34	0.74
1:P:50:LEU:HB2	1:Q:129:LYS:CA	2.16	0.74
1:B:8:MET:CE	1:C:134:LYS:O	2.35	0.74
1:G:3:VAL:CG1	1:H:88:PRO:CG	2.63	0.74
1:L:12:GLY:HA2	1:P:67:TRP:HE3	1.52	0.74
1:N:59:TYR:HD1	1:O:123:TRP:CD1	2.05	0.74
1:B:5:ASN:N	1:C:87:MET:CE	2.30	0.74
1:B:148:ARG:HG3	1:C:93:GLN:HE22	1.52	0.74
1:C:48:GLY:HA3	1:D:129:LYS:HE3	1.68	0.74
1:P:49:GLU:HG3	1:Q:131:VAL:CG2	2.12	0.74
1:A:12:GLY:CA	1:K:67:TRP:CE3	2.70	0.74
1:E:50:LEU:HB2	1:F:129:LYS:HB3	1.68	0.74
1:G:89:GLY:O	1:L:155:ARG:HD3	1.87	0.74
1:H:148:ARG:HG3	1:I:93:GLN:HE22	1.52	0.74
1:Q:48:GLY:HA3	1:R:129:LYS:CE	2.16	0.74
1:N:52:ALA:HB2	1:O:127:ILE:O	1.86	0.74
1:D:56:ASP:OD1	1:E:123:TRP:CG	2.40	0.74
1:F:113:PRO:CB	1:J:66:ASP:OD1	2.34	0.74
1:H:52:ALA:HB2	1:I:127:ILE:O	1.86	0.74
1:N:8:MET:CE	1:O:134:LYS:O	2.35	0.74
1:Q:50:LEU:HB2	1:R:129:LYS:HB3	1.68	0.74
1:G:8:MET:SD	1:H:134:LYS:HD3	2.21	0.74
1:D:12:GLY:HA2	1:H:67:TRP:CE3	2.19	0.74
1:E:4:PRO:CG	1:F:89:GLY:CA	2.04	0.74
1:H:15:THR:O	1:R:67:TRP:CZ2	2.41	0.74
1:M:89:GLY:O	1:R:155:ARG:HD3	1.87	0.74
1:M:135:GLU:CG	1:R:114:ASN:HB3	2.15	0.74
1:N:48:GLY:HA3	1:O:129:LYS:CE	2.17	0.74
1:A:93:GLN:HE22	1:F:148:ARG:HG2	1.51	0.74
1:B:13:ALA:O	1:L:66:ASP:O	1.90	0.74
1:C:3:VAL:CG1	1:D:88:PRO:CG	2.65	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:9:PRO:HD2	1:P:135:GLU:OE1	1.88	0.74
1:C:9:PRO:HD2	1:D:135:GLU:OE1	1.88	0.74
1:P:8:MET:SD	1:Q:134:LYS:CG	2.75	0.74
1:A:8:MET:SD	1:B:134:LYS:HD3	2.22	0.73
1:E:148:ARG:HG3	1:F:93:GLN:HE22	1.53	0.73
1:G:87:MET:HE3	1:L:4:PRO:HA	1.69	0.73
1:M:47:PRO:HB3	1:N:132:THR:O	1.83	0.73
1:M:123:TRP:CD1	1:R:59:TYR:HD1	2.06	0.73
1:B:48:GLY:C	1:C:129:LYS:CG	2.52	0.73
1:C:4:PRO:N	1:D:88:PRO:O	2.20	0.73
1:D:4:PRO:CA	1:E:88:PRO:O	2.35	0.73
1:D:52:ALA:HB2	1:E:127:ILE:N	2.00	0.73
1:I:4:PRO:N	1:J:88:PRO:O	2.21	0.73
1:J:4:PRO:CB	1:K:87:MET:HB3	2.18	0.73
1:M:54:SER:OG	1:N:124:VAL:O	2.04	0.73
1:B:5:ASN:CA	1:C:87:MET:HE2	2.18	0.73
1:M:134:LYS:HD3	1:R:8:MET:SD	2.27	0.73
1:P:4:PRO:CB	1:Q:87:MET:HB3	2.18	0.73
1:P:4:PRO:CA	1:Q:88:PRO:O	2.35	0.73
1:P:52:ALA:HB2	1:Q:127:ILE:O	1.88	0.73
1:G:123:TRP:CD1	1:L:59:TYR:HD1	2.05	0.73
1:H:48:GLY:HA3	1:I:129:LYS:CE	2.17	0.73
1:I:5:ASN:N	1:J:87:MET:CE	2.31	0.73
1:J:4:PRO:CA	1:K:88:PRO:O	2.35	0.73
1:M:5:ASN:C	1:N:87:MET:HE2	2.11	0.73
1:O:3:VAL:CG1	1:P:88:PRO:CG	2.65	0.73
1:D:52:ALA:HB2	1:E:127:ILE:O	1.88	0.73
1:G:54:SER:OG	1:H:124:VAL:O	2.04	0.73
1:G:129:LYS:CA	1:L:50:LEU:HB2	2.19	0.73
1:I:113:PRO:HB3	1:M:66:ASP:OD1	1.88	0.73
1:J:15:THR:O	1:N:67:TRP:CZ2	2.41	0.73
1:L:12:GLY:HA2	1:P:67:TRP:CE3	2.23	0.73
1:M:8:MET:SD	1:N:134:LYS:HD3	2.21	0.73
1:A:131:VAL:CG2	1:F:49:GLU:HG3	2.19	0.73
1:N:148:ARG:HG3	1:O:93:GLN:HE22	1.52	0.73
1:J:52:ALA:HB2	1:K:127:ILE:O	1.88	0.73
1:L:113:PRO:CB	1:P:66:ASP:OD1	2.35	0.73
1:M:134:LYS:O	1:R:8:MET:HE2	1.89	0.73
1:G:91:GLN:NE2	1:L:155:ARG:HE	1.87	0.73
1:G:113:PRO:HB3	1:Q:66:ASP:CG	2.12	0.73
1:C:4:PRO:CA	1:D:88:PRO:O	2.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:48:GLY:HA3	1:P:129:LYS:CE	2.19	0.73
1:P:5:ASN:CA	1:Q:87:MET:HE2	2.18	0.73
1:A:97:LEU:CD1	1:F:148:ARG:CZ	2.67	0.73
1:D:4:PRO:CB	1:E:87:MET:HB3	2.18	0.73
1:E:8:MET:SD	1:F:134:LYS:CG	2.77	0.73
1:E:155:ARG:HD3	1:F:91:GLN:NE2	2.04	0.73
1:N:5:ASN:CA	1:O:87:MET:HE2	2.18	0.73
1:G:151:MET:C	1:H:91:GLN:CG	1.85	0.72
1:M:88:PRO:CG	1:R:3:VAL:HG11	2.18	0.72
1:M:91:GLN:NE2	1:R:155:ARG:HE	1.87	0.72
1:O:4:PRO:N	1:P:88:PRO:O	2.20	0.72
1:P:52:ALA:HB2	1:Q:127:ILE:N	2.00	0.72
1:Q:155:ARG:HD3	1:R:91:GLN:NE2	2.04	0.72
1:A:56:ASP:O	1:B:103:GLY:O	2.06	0.72
1:D:52:ALA:CB	1:E:127:ILE:N	2.49	0.72
1:E:5:ASN:CA	1:F:87:MET:HE2	2.19	0.72
1:H:5:ASN:CA	1:I:87:MET:HE2	2.18	0.72
1:H:111:ARG:NH2	1:R:66:ASP:N	2.25	0.72
1:I:9:PRO:HD2	1:J:135:GLU:OE1	1.88	0.72
1:J:5:ASN:CA	1:K:87:MET:HE2	2.18	0.72
1:K:148:ARG:HG3	1:L:93:GLN:HE22	1.53	0.72
1:D:5:ASN:CA	1:E:87:MET:HE2	2.18	0.72
1:F:13:ALA:N	1:J:67:TRP:HE3	1.85	0.72
1:H:8:MET:SD	1:I:134:LYS:CG	2.78	0.72
1:I:4:PRO:CA	1:J:88:PRO:O	2.37	0.72
1:J:60:LEU:HD21	1:K:76:SER:HB2	1.71	0.72
1:A:4:PRO:HG3	1:B:88:PRO:C	2.14	0.72
1:A:15:THR:O	1:K:67:TRP:CE2	2.31	0.72
1:G:134:LYS:HD3	1:L:8:MET:SD	2.27	0.72
1:H:8:MET:HB3	1:I:134:LYS:CE	2.19	0.72
1:M:50:LEU:HB2	1:N:129:LYS:HB3	1.71	0.72
1:E:50:LEU:HB2	1:F:129:LYS:CA	2.19	0.72
1:I:13:ALA:N	1:M:67:TRP:CE3	2.56	0.72
1:M:10:VAL:HG22	1:N:134:LYS:HE3	1.70	0.72
1:M:87:MET:HE3	1:R:4:PRO:HA	1.70	0.72
1:A:12:GLY:CA	1:K:67:TRP:HE3	2.02	0.72
1:G:88:PRO:CG	1:L:3:VAL:HG11	2.18	0.72
1:Q:151:MET:C	1:R:91:GLN:CG	1.95	0.72
1:A:59:TYR:HD1	1:B:123:TRP:NE1	1.87	0.72
1:A:129:LYS:NZ	1:F:48:GLY:HA3	2.04	0.72
1:B:8:MET:HB3	1:C:134:LYS:CE	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:48:GLY:HA3	1:D:129:LYS:CE	2.19	0.72
1:J:52:ALA:CB	1:K:127:ILE:N	2.49	0.72
1:K:5:ASN:CA	1:L:87:MET:HE2	2.19	0.72
1:N:8:MET:SD	1:O:134:LYS:CG	2.78	0.72
1:Q:50:LEU:HB2	1:R:129:LYS:CA	2.19	0.72
1:A:5:ASN:N	1:B:87:MET:CE	2.40	0.72
1:A:10:VAL:HG22	1:B:134:LYS:NZ	2.04	0.72
1:B:155:ARG:HD3	1:C:91:GLN:NE2	2.05	0.72
1:J:12:GLY:CA	1:N:68:THR:OG1	2.38	0.72
1:Q:48:GLY:C	1:R:129:LYS:CG	2.50	0.72
1:D:12:GLY:CA	1:H:68:THR:OG1	2.38	0.72
1:G:47:PRO:HB3	1:H:132:THR:O	1.83	0.72
1:G:50:LEU:HB2	1:H:129:LYS:HB3	1.71	0.72
1:H:155:ARG:HD3	1:I:91:GLN:NE2	2.05	0.72
1:I:48:GLY:HA3	1:J:129:LYS:CE	2.19	0.72
1:M:129:LYS:CA	1:R:50:LEU:HB2	2.19	0.72
1:N:50:LEU:HB2	1:O:129:LYS:CA	2.19	0.72
1:Q:8:MET:CB	1:R:134:LYS:CD	2.41	0.72
1:Q:8:MET:SD	1:R:134:LYS:CG	2.77	0.72
1:G:10:VAL:HG22	1:H:134:LYS:NZ	2.05	0.72
1:M:10:VAL:HG22	1:N:134:LYS:NZ	2.05	0.72
1:N:155:ARG:HD3	1:O:91:GLN:NE2	2.05	0.72
1:C:13:ALA:N	1:G:67:TRP:CE3	2.58	0.71
1:G:88:PRO:HG3	1:L:3:VAL:HG11	1.72	0.71
1:O:4:PRO:CA	1:P:88:PRO:O	2.37	0.71
1:Q:5:ASN:CA	1:R:87:MET:HE2	2.19	0.71
1:A:129:LYS:HB3	1:F:50:LEU:N	2.05	0.71
1:J:152:ALA:HA	1:K:91:GLN:OE1	1.91	0.71
1:K:50:LEU:HB2	1:L:129:LYS:CA	2.19	0.71
1:N:8:MET:HB3	1:O:134:LYS:CE	2.19	0.71
1:N:148:ARG:HG2	1:O:93:GLN:NE2	2.05	0.71
1:O:114:ASN:HB3	1:P:135:GLU:CG	2.07	0.71
1:B:8:MET:SD	1:C:134:LYS:CG	2.78	0.71
1:D:13:ALA:O	1:H:66:ASP:O	1.93	0.71
1:H:50:LEU:HB2	1:I:129:LYS:CA	2.19	0.71
1:K:8:MET:SD	1:L:134:LYS:CG	2.77	0.71
1:A:134:LYS:HE3	1:F:10:VAL:HG22	1.72	0.71
1:D:152:ALA:HA	1:E:91:GLN:OE1	1.90	0.71
1:E:12:GLY:CA	1:I:68:THR:OG1	2.37	0.71
1:K:155:ARG:HD3	1:L:91:GLN:NE2	2.04	0.71
1:O:151:MET:C	1:P:91:GLN:CG	1.84	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:52:ALA:CB	1:Q:127:ILE:N	2.49	0.71
1:A:93:GLN:HE22	1:F:148:ARG:HG3	1.54	0.71
1:E:8:MET:HB3	1:F:134:LYS:CE	2.21	0.71
1:G:127:ILE:N	1:L:52:ALA:CB	2.53	0.71
1:I:12:GLY:O	1:M:67:TRP:CE3	2.43	0.71
1:M:4:PRO:CB	1:N:87:MET:HB3	2.20	0.71
1:P:152:ALA:HA	1:Q:91:GLN:OE1	1.91	0.71
1:A:50:LEU:HB2	1:B:129:LYS:HB3	1.71	0.71
1:C:155:ARG:CD	1:D:91:GLN:NE2	2.53	0.71
1:G:134:LYS:O	1:L:8:MET:HE2	1.89	0.71
1:M:88:PRO:HG3	1:R:3:VAL:HG11	1.72	0.71
1:Q:4:PRO:HG3	1:R:89:GLY:N	1.67	0.71
1:G:10:VAL:HG22	1:H:134:LYS:HE3	1.70	0.71
1:L:12:GLY:C	1:P:67:TRP:CZ3	2.66	0.71
1:Q:148:ARG:HG3	1:R:93:GLN:HE22	1.53	0.71
1:F:12:GLY:O	1:J:67:TRP:CZ3	2.43	0.71
1:K:12:GLY:CA	1:O:68:THR:OG1	2.38	0.71
1:P:60:LEU:HD21	1:Q:76:SER:HB2	1.71	0.71
1:C:114:ASN:HB3	1:D:135:GLU:CG	2.08	0.71
1:G:9:PRO:HG2	1:H:135:GLU:OE1	1.91	0.71
1:J:52:ALA:HB2	1:K:127:ILE:N	2.00	0.71
1:J:114:ASN:HB3	1:K:135:GLU:CG	2.15	0.71
1:M:50:LEU:H	1:N:129:LYS:C	1.99	0.71
1:Q:8:MET:HB3	1:R:134:LYS:CE	2.21	0.71
1:A:88:PRO:CG	1:F:3:VAL:HG12	2.16	0.71
1:D:60:LEU:HD21	1:E:76:SER:HB2	1.71	0.71
1:B:50:LEU:HB2	1:C:129:LYS:CA	2.19	0.70
1:C:113:PRO:HB3	1:G:66:ASP:OD1	1.91	0.70
1:D:8:MET:CE	1:E:134:LYS:O	2.39	0.70
1:G:152:ALA:HA	1:H:91:GLN:OE1	1.91	0.70
1:O:4:PRO:CB	1:P:87:MET:HB3	2.21	0.70
1:O:155:ARG:CD	1:P:91:GLN:NE2	2.53	0.70
1:A:15:THR:O	1:K:67:TRP:HZ2	1.73	0.70
1:A:87:MET:CE	1:F:5:ASN:N	2.44	0.70
1:A:89:GLY:CA	1:F:4:PRO:CB	2.66	0.70
1:M:10:VAL:HG22	1:N:134:LYS:CE	2.22	0.70
1:H:148:ARG:HG2	1:I:93:GLN:NE2	2.05	0.70
1:L:12:GLY:O	1:P:67:TRP:CZ3	2.43	0.70
1:A:8:MET:HB3	1:B:134:LYS:CE	2.20	0.70
1:D:56:ASP:OD1	1:E:123:TRP:CE2	2.45	0.70
1:G:4:PRO:N	1:H:88:PRO:O	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:13:ALA:N	1:Q:67:TRP:CE3	2.59	0.70
1:M:4:PRO:N	1:N:88:PRO:O	2.24	0.70
1:M:91:GLN:HE22	1:R:155:ARG:HE	1.35	0.70
1:M:152:ALA:HA	1:N:91:GLN:OE1	1.91	0.70
1:P:59:TYR:CD1	1:Q:123:TRP:NE1	2.50	0.70
1:I:155:ARG:CD	1:J:91:GLN:NE2	2.53	0.70
1:P:8:MET:CE	1:Q:134:LYS:O	2.39	0.70
1:A:88:PRO:HG3	1:F:3:VAL:HG11	1.74	0.70
1:B:148:ARG:HG2	1:C:93:GLN:NE2	2.05	0.70
1:G:4:PRO:CB	1:H:87:MET:HB3	2.20	0.70
1:J:56:ASP:OD1	1:K:123:TRP:CE2	2.45	0.70
1:M:9:PRO:HG2	1:N:135:GLU:OE1	1.91	0.70
1:A:4:PRO:CB	1:B:87:MET:HB3	2.21	0.70
1:G:127:ILE:N	1:L:52:ALA:HB2	2.06	0.70
1:A:152:ALA:HA	1:B:91:GLN:OE1	1.91	0.70
1:M:148:ARG:CG	1:N:93:GLN:NE2	2.44	0.70
1:P:155:ARG:HE	1:Q:91:GLN:NE2	1.89	0.70
1:A:50:LEU:HB3	1:B:129:LYS:N	2.03	0.70
1:D:9:PRO:HG2	1:E:135:GLU:OE1	1.91	0.70
1:G:4:PRO:CB	1:H:88:PRO:C	2.46	0.70
1:G:129:LYS:HB3	1:L:50:LEU:N	2.07	0.70
1:K:8:MET:HB3	1:L:134:LYS:CE	2.21	0.70
1:M:127:ILE:N	1:R:52:ALA:CB	2.52	0.70
1:E:148:ARG:HG2	1:F:93:GLN:NE2	2.06	0.69
1:I:4:PRO:CB	1:J:87:MET:HB3	2.21	0.69
1:I:52:ALA:CB	1:J:127:ILE:N	2.53	0.69
1:J:155:ARG:HE	1:K:91:GLN:NE2	1.89	0.69
1:N:4:PRO:CG	1:O:89:GLY:CA	2.05	0.69
1:P:50:LEU:HB2	1:Q:129:LYS:HB3	1.74	0.69
1:C:4:PRO:CB	1:D:87:MET:HB3	2.21	0.69
1:G:91:GLN:HE22	1:L:155:ARG:HE	1.35	0.69
1:G:91:GLN:HB2	1:L:152:ALA:CA	2.22	0.69
1:I:4:PRO:CG	1:J:89:GLY:CA	2.12	0.69
1:J:8:MET:CE	1:K:134:LYS:O	2.39	0.69
1:J:9:PRO:HG2	1:K:135:GLU:OE1	1.91	0.69
1:J:50:LEU:HB2	1:K:129:LYS:HB3	1.74	0.69
1:M:59:TYR:CD1	1:N:123:TRP:NE1	2.58	0.69
1:P:9:PRO:HG2	1:Q:135:GLU:OE1	1.91	0.69
1:D:3:VAL:HG11	1:E:88:PRO:HG3	1.74	0.69
1:G:50:LEU:H	1:H:129:LYS:C	1.99	0.69
1:C:12:GLY:O	1:G:67:TRP:CE3	2.45	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:155:ARG:HE	1:E:91:GLN:NE2	1.89	0.69
1:K:56:ASP:OD1	1:L:123:TRP:CG	2.46	0.69
1:O:52:ALA:CB	1:P:127:ILE:N	2.53	0.69
1:A:13:ALA:O	1:K:66:ASP:O	1.85	0.69
1:G:59:TYR:CD1	1:H:123:TRP:NE1	2.58	0.69
1:I:56:ASP:OD1	1:J:123:TRP:CG	2.45	0.69
1:A:88:PRO:CG	1:F:3:VAL:HG11	2.21	0.69
1:M:59:TYR:HD1	1:N:123:TRP:CD1	2.11	0.69
1:O:152:ALA:HA	1:P:91:GLN:OE1	1.93	0.69
1:P:56:ASP:OD1	1:Q:123:TRP:CE2	2.45	0.69
1:C:56:ASP:OD1	1:D:123:TRP:CG	2.46	0.69
1:C:152:ALA:HA	1:D:91:GLN:OE1	1.93	0.69
1:D:148:ARG:CG	1:E:93:GLN:NE2	2.46	0.69
1:E:12:GLY:C	1:I:67:TRP:CZ3	2.70	0.69
1:G:9:PRO:HD2	1:H:135:GLU:OE1	1.93	0.69
1:G:59:TYR:HD1	1:H:123:TRP:CD1	2.11	0.69
1:K:8:MET:HE1	1:L:134:LYS:O	1.91	0.69
1:K:48:GLY:C	1:L:129:LYS:CG	2.50	0.69
1:O:56:ASP:OD1	1:P:123:TRP:CG	2.45	0.69
1:B:114:ASN:HB3	1:C:135:GLU:CG	2.16	0.69
1:G:10:VAL:HG22	1:H:134:LYS:CE	2.22	0.69
1:I:152:ALA:HA	1:J:91:GLN:OE1	1.93	0.69
1:M:50:LEU:HB3	1:N:129:LYS:N	2.08	0.69
1:P:48:GLY:HA3	1:Q:129:LYS:NZ	2.08	0.69
1:Q:56:ASP:OD1	1:R:123:TRP:CG	2.46	0.69
1:A:5:ASN:C	1:B:87:MET:HE2	2.17	0.69
1:A:87:MET:HE2	1:F:5:ASN:CA	2.23	0.69
1:A:87:MET:HE3	1:F:4:PRO:HA	1.74	0.69
1:A:113:PRO:HB3	1:K:66:ASP:CG	2.17	0.69
1:B:8:MET:HE1	1:C:134:LYS:O	1.93	0.69
1:D:50:LEU:HB2	1:E:129:LYS:HB3	1.74	0.69
1:I:54:SER:OG	1:J:124:VAL:O	2.11	0.69
1:O:4:PRO:CG	1:P:89:GLY:CA	2.12	0.69
1:C:54:SER:OG	1:D:124:VAL:O	2.11	0.68
1:E:8:MET:HE1	1:F:134:LYS:O	1.91	0.68
1:G:15:THR:O	1:Q:67:TRP:CE2	2.36	0.68
1:M:155:ARG:HE	1:N:91:GLN:NE2	1.91	0.68
1:Q:8:MET:HE1	1:R:134:LYS:O	1.91	0.68
1:A:9:PRO:HG2	1:B:135:GLU:OE1	1.93	0.68
1:H:8:MET:HE1	1:I:134:LYS:O	1.93	0.68
1:K:148:ARG:HG2	1:L:93:GLN:NE2	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:9:PRO:HD2	1:N:135:GLU:OE1	1.93	0.68
1:M:91:GLN:HB2	1:R:152:ALA:CA	2.22	0.68
1:M:129:LYS:HB3	1:R:50:LEU:N	2.07	0.68
1:O:54:SER:OG	1:P:124:VAL:O	2.11	0.68
1:C:5:ASN:CA	1:D:87:MET:HE2	2.22	0.68
1:K:8:MET:CB	1:L:134:LYS:CD	2.41	0.68
1:L:13:ALA:CA	1:P:68:THR:OG1	2.41	0.68
1:E:49:GLU:CD	1:F:131:VAL:HG22	2.01	0.68
1:E:56:ASP:OD1	1:F:123:TRP:CG	2.46	0.68
1:J:3:VAL:HG11	1:K:88:PRO:HG3	1.74	0.68
1:Q:54:SER:OG	1:R:124:VAL:O	2.11	0.68
1:Q:148:ARG:HG2	1:R:93:GLN:NE2	2.06	0.68
1:A:50:LEU:CA	1:B:129:LYS:HB3	2.24	0.68
1:G:155:ARG:HE	1:H:91:GLN:NE2	1.91	0.68
1:J:48:GLY:HA3	1:K:129:LYS:NZ	2.08	0.68
1:O:5:ASN:CA	1:P:87:MET:HE2	2.22	0.68
1:D:48:GLY:HA3	1:E:129:LYS:NZ	2.08	0.68
1:I:10:VAL:HG22	1:J:134:LYS:HE3	1.76	0.68
1:O:8:MET:SD	1:P:134:LYS:CG	2.82	0.68
1:D:155:ARG:CD	1:E:91:GLN:NE2	2.57	0.68
1:K:12:GLY:C	1:O:67:TRP:CZ3	2.71	0.68
1:K:54:SER:OG	1:L:124:VAL:O	2.11	0.68
1:N:8:MET:HE1	1:O:134:LYS:O	1.94	0.68
1:N:54:SER:OG	1:O:124:VAL:O	2.10	0.68
1:C:10:VAL:HG22	1:D:134:LYS:HE3	1.76	0.68
1:C:13:ALA:O	1:G:66:ASP:O	1.82	0.68
1:H:56:ASP:OD1	1:I:123:TRP:CG	2.47	0.68
1:I:114:ASN:HB3	1:J:135:GLU:CG	2.07	0.68
1:K:114:ASN:HB3	1:L:135:GLU:CG	2.17	0.68
1:L:13:ALA:N	1:P:67:TRP:HE3	1.85	0.68
1:O:10:VAL:HG22	1:P:134:LYS:HE3	1.76	0.68
1:A:91:GLN:HB2	1:F:152:ALA:CA	2.23	0.68
1:A:135:GLU:CG	1:F:114:ASN:HB3	2.23	0.68
1:D:114:ASN:HB3	1:E:135:GLU:CG	2.15	0.68
1:H:152:ALA:CB	1:I:91:GLN:CB	2.43	0.68
1:I:5:ASN:CA	1:J:87:MET:HE2	2.22	0.68
1:N:56:ASP:OD1	1:O:123:TRP:CG	2.46	0.68
1:P:148:ARG:NH2	1:Q:97:LEU:HD22	2.09	0.68
1:P:155:ARG:CD	1:Q:91:GLN:NE2	2.57	0.68
1:I:8:MET:SD	1:J:134:LYS:CG	2.82	0.68
1:M:4:PRO:CA	1:N:88:PRO:O	2.42	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:56:ASP:OD1	1:C:123:TRP:CG	2.46	0.67
1:H:54:SER:OG	1:I:124:VAL:O	2.10	0.67
1:A:50:LEU:CD2	1:B:128:GLY:CA	2.62	0.67
1:B:54:SER:OG	1:C:124:VAL:O	2.10	0.67
1:C:111:ARG:NH2	1:G:66:ASP:H	1.89	0.67
1:C:152:ALA:CB	1:D:91:GLN:CB	2.42	0.67
1:G:4:PRO:CA	1:H:88:PRO:O	2.42	0.67
1:I:111:ARG:NH2	1:M:66:ASP:H	1.91	0.67
1:J:148:ARG:NH2	1:K:97:LEU:HD22	2.09	0.67
1:A:4:PRO:N	1:B:88:PRO:O	2.26	0.67
1:A:135:GLU:OE1	1:F:9:PRO:CD	2.42	0.67
1:C:8:MET:SD	1:D:134:LYS:CG	2.82	0.67
1:D:155:ARG:NE	1:E:91:GLN:NE2	2.41	0.67
1:E:52:ALA:CB	1:F:127:ILE:N	2.54	0.67
1:G:50:LEU:HB3	1:H:129:LYS:N	2.08	0.67
1:C:52:ALA:CB	1:D:127:ILE:N	2.53	0.67
1:E:49:GLU:OE1	1:F:131:VAL:CG2	2.20	0.67
1:G:129:LYS:HB3	1:L:50:LEU:HB2	1.77	0.67
1:I:48:GLY:HA3	1:J:129:LYS:NZ	2.10	0.67
1:J:155:ARG:CD	1:K:91:GLN:NE2	2.57	0.67
1:M:127:ILE:N	1:R:52:ALA:HB2	2.05	0.67
1:P:3:VAL:HG11	1:Q:88:PRO:HG3	1.74	0.67
1:D:49:GLU:OE1	1:E:131:VAL:CG2	2.21	0.67
1:G:12:GLY:HA2	1:Q:67:TRP:HE3	1.59	0.67
1:C:48:GLY:HA3	1:D:129:LYS:NZ	2.10	0.67
1:E:54:SER:OG	1:F:124:VAL:O	2.11	0.67
1:G:132:THR:O	1:L:47:PRO:HB3	1.74	0.67
1:E:8:MET:CB	1:F:134:LYS:CD	2.41	0.67
1:A:134:LYS:CG	1:F:8:MET:SD	2.83	0.67
1:M:129:LYS:HB3	1:R:50:LEU:HB2	1.77	0.67
1:A:13:ALA:N	1:K:67:TRP:CE3	2.63	0.67
1:G:152:ALA:HA	1:H:91:GLN:CD	2.20	0.67
1:I:49:GLU:OE1	1:J:131:VAL:CG2	2.15	0.67
1:K:52:ALA:HB2	1:L:127:ILE:N	2.08	0.67
1:C:151:MET:C	1:D:91:GLN:CG	1.84	0.66
1:D:12:GLY:C	1:H:67:TRP:CZ3	2.73	0.66
1:D:148:ARG:NH2	1:E:97:LEU:HD22	2.09	0.66
1:F:13:ALA:CA	1:J:68:THR:OG1	2.43	0.66
1:G:129:LYS:C	1:L:50:LEU:H	2.02	0.66
1:I:152:ALA:HA	1:J:91:GLN:CD	2.20	0.66
1:J:155:ARG:NE	1:K:91:GLN:NE2	2.41	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:52:ALA:CB	1:O:127:ILE:N	2.55	0.66
1:G:124:VAL:O	1:L:54:SER:OG	2.13	0.66
1:K:49:GLU:CD	1:L:131:VAL:HG22	2.01	0.66
1:N:9:PRO:HG2	1:O:135:GLU:OE1	1.95	0.66
1:C:152:ALA:HA	1:D:91:GLN:CD	2.20	0.66
1:M:152:ALA:HA	1:N:91:GLN:CD	2.20	0.66
1:O:52:ALA:HB2	1:P:127:ILE:N	2.07	0.66
1:A:134:LYS:HD3	1:F:8:MET:SD	2.28	0.66
1:C:48:GLY:C	1:D:129:LYS:CG	2.55	0.66
1:E:13:ALA:CA	1:I:68:THR:OG1	2.44	0.66
1:K:52:ALA:CB	1:L:127:ILE:N	2.54	0.66
1:E:13:ALA:N	1:I:67:TRP:HE3	1.92	0.66
1:H:52:ALA:HB2	1:I:127:ILE:N	2.08	0.66
1:H:114:ASN:HB3	1:I:135:GLU:CG	2.16	0.66
1:O:48:GLY:HA3	1:P:129:LYS:NZ	2.10	0.66
1:A:3:VAL:HG11	1:B:88:PRO:CG	2.24	0.66
1:A:13:ALA:CB	1:K:65:ALA:C	2.62	0.66
1:M:124:VAL:O	1:R:54:SER:OG	2.12	0.66
1:M:129:LYS:C	1:R:50:LEU:H	2.02	0.66
1:A:3:VAL:HG11	1:B:88:PRO:HG3	1.78	0.66
1:G:88:PRO:CG	1:L:3:VAL:HG12	2.18	0.66
1:H:9:PRO:HG2	1:I:135:GLU:OE1	1.95	0.66
1:I:8:MET:CE	1:J:134:LYS:O	2.44	0.66
1:H:60:LEU:HD21	1:I:76:SER:HB2	1.78	0.66
1:M:3:VAL:HG11	1:N:88:PRO:HG3	1.78	0.66
1:O:152:ALA:HA	1:P:91:GLN:CD	2.20	0.66
1:P:9:PRO:CD	1:Q:135:GLU:OE1	2.43	0.66
1:I:12:GLY:CA	1:M:67:TRP:CE3	2.79	0.66
1:C:52:ALA:HB2	1:D:127:ILE:N	2.07	0.66
1:P:3:VAL:HG11	1:Q:88:PRO:CG	2.26	0.66
1:J:12:GLY:C	1:N:67:TRP:CZ3	2.72	0.65
1:J:148:ARG:CG	1:K:93:GLN:NE2	2.46	0.65
1:K:13:ALA:CA	1:O:68:THR:OG1	2.44	0.65
1:O:49:GLU:OE1	1:P:131:VAL:CG2	2.15	0.65
1:B:9:PRO:HG2	1:C:135:GLU:OE1	1.95	0.65
1:E:48:GLY:HA3	1:F:129:LYS:NZ	2.11	0.65
1:I:48:GLY:C	1:J:129:LYS:CG	2.55	0.65
1:A:135:GLU:OE1	1:F:9:PRO:HG2	1.96	0.65
1:C:9:PRO:HG2	1:D:135:GLU:OE1	1.97	0.65
1:G:15:THR:O	1:Q:67:TRP:HZ2	1.79	0.65
1:K:9:PRO:HG2	1:L:135:GLU:OE1	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:129:LYS:N	1:R:50:LEU:HB3	2.11	0.65
1:A:129:LYS:CA	1:F:50:LEU:HB2	2.25	0.65
1:P:148:ARG:CG	1:Q:93:GLN:NE2	2.46	0.65
1:A:59:TYR:CD1	1:B:123:TRP:NE1	2.61	0.65
1:D:59:TYR:HD1	1:E:123:TRP:CD1	2.15	0.65
1:A:59:TYR:HD1	1:B:123:TRP:CD1	2.14	0.65
1:C:8:MET:CE	1:D:134:LYS:O	2.44	0.65
1:G:12:GLY:CA	1:Q:68:THR:CG2	2.61	0.65
1:J:59:TYR:HD1	1:K:123:TRP:CD1	2.15	0.65
1:M:129:LYS:HB3	1:R:50:LEU:CA	2.27	0.65
1:O:8:MET:CE	1:P:134:LYS:O	2.44	0.65
1:A:8:MET:O	1:L:72:GLN:NE2	2.30	0.65
1:D:8:MET:CE	1:E:134:LYS:HB2	2.23	0.65
1:D:8:MET:HE2	1:E:134:LYS:CB	2.15	0.65
1:J:12:GLY:O	1:N:67:TRP:CZ3	2.48	0.65
1:N:52:ALA:HB2	1:O:127:ILE:N	2.08	0.65
1:D:12:GLY:O	1:H:67:TRP:CZ3	2.50	0.65
1:G:129:LYS:N	1:L:50:LEU:HB3	2.10	0.65
1:G:129:LYS:HB3	1:L:50:LEU:CA	2.27	0.65
1:M:5:ASN:CA	1:N:87:MET:HE2	2.27	0.65
1:D:3:VAL:HG11	1:E:88:PRO:CG	2.26	0.65
1:E:10:VAL:HG22	1:F:134:LYS:HE3	1.79	0.65
1:G:50:LEU:CA	1:H:129:LYS:HB3	2.27	0.65
1:G:89:GLY:N	1:L:4:PRO:CG	2.37	0.65
1:N:3:VAL:HG11	1:O:88:PRO:HG3	1.78	0.65
1:P:155:ARG:NE	1:Q:91:GLN:NE2	2.41	0.65
1:Q:9:PRO:HG2	1:R:135:GLU:OE1	1.96	0.65
1:Q:48:GLY:HA3	1:R:129:LYS:NZ	2.12	0.65
1:B:48:GLY:HA3	1:C:129:LYS:NZ	2.12	0.65
1:G:5:ASN:CA	1:H:87:MET:HE2	2.27	0.65
1:I:152:ALA:CB	1:J:91:GLN:CB	2.42	0.65
1:P:59:TYR:HD1	1:Q:123:TRP:CD1	2.15	0.65
1:B:152:ALA:CA	1:C:91:GLN:CB	2.74	0.64
1:D:9:PRO:CD	1:E:135:GLU:OE1	2.43	0.64
1:G:3:VAL:HG11	1:H:88:PRO:CG	2.27	0.64
1:I:4:PRO:HG3	1:J:89:GLY:HA3	0.64	0.64
1:K:48:GLY:HA3	1:L:129:LYS:NZ	2.12	0.64
1:M:135:GLU:OE1	1:R:9:PRO:HG2	1.97	0.64
1:O:4:PRO:HG3	1:P:89:GLY:HA3	0.65	0.64
1:O:48:GLY:C	1:P:129:LYS:CG	2.55	0.64
1:A:12:GLY:HA2	1:K:67:TRP:HE3	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:129:LYS:HB3	1:F:50:LEU:HB2	1.80	0.64
1:B:60:LEU:HD21	1:C:76:SER:HB2	1.78	0.64
1:E:9:PRO:HG2	1:F:135:GLU:OE1	1.96	0.64
1:G:87:MET:HE2	1:L:5:ASN:CA	2.28	0.64
1:G:135:GLU:OE1	1:L:9:PRO:HG2	1.97	0.64
1:M:88:PRO:CG	1:R:3:VAL:HG12	2.18	0.64
1:C:152:ALA:CA	1:D:91:GLN:CB	2.74	0.64
1:I:49:GLU:CD	1:J:131:VAL:HG22	1.96	0.64
1:N:4:PRO:CB	1:O:87:MET:HB3	2.27	0.64
1:N:48:GLY:HA3	1:O:129:LYS:NZ	2.12	0.64
1:O:9:PRO:HG2	1:P:135:GLU:OE1	1.97	0.64
1:A:47:PRO:HB3	1:B:132:THR:O	1.83	0.64
1:A:103:GLY:O	1:F:56:ASP:O	2.16	0.64
1:I:13:ALA:N	1:M:67:TRP:HE3	1.93	0.64
1:K:12:GLY:O	1:O:67:TRP:CZ3	2.49	0.64
1:N:60:LEU:HD21	1:O:76:SER:HB2	1.78	0.64
1:H:3:VAL:HG11	1:I:88:PRO:HG3	1.79	0.64
1:I:9:PRO:HG2	1:J:135:GLU:OE1	1.97	0.64
1:J:3:VAL:HG11	1:K:88:PRO:CG	2.26	0.64
1:N:10:VAL:HG22	1:O:134:LYS:HE3	1.79	0.64
1:O:152:ALA:CB	1:P:91:GLN:CB	2.42	0.64
1:E:12:GLY:O	1:I:67:TRP:CZ3	2.50	0.64
1:G:3:VAL:HG11	1:H:88:PRO:HG3	1.78	0.64
1:H:12:GLY:C	1:R:67:TRP:CZ3	2.72	0.64
1:H:52:ALA:CB	1:I:127:ILE:N	2.55	0.64
1:I:3:VAL:HG11	1:J:88:PRO:HG3	1.80	0.64
1:B:9:PRO:CD	1:C:135:GLU:OE1	2.46	0.64
1:M:88:PRO:C	1:R:4:PRO:CD	2.65	0.64
1:A:152:ALA:HA	1:B:91:GLN:CD	2.23	0.64
1:C:4:PRO:HG3	1:D:89:GLY:HA3	0.65	0.64
1:M:50:LEU:CA	1:N:129:LYS:HB3	2.27	0.64
1:Q:9:PRO:CD	1:R:135:GLU:OE1	2.46	0.64
1:B:4:PRO:CB	1:C:87:MET:HB3	2.27	0.64
1:H:10:VAL:HG22	1:I:134:LYS:HE3	1.79	0.64
1:H:48:GLY:HA3	1:I:129:LYS:NZ	2.12	0.64
1:K:9:PRO:CD	1:L:135:GLU:OE1	2.45	0.64
1:G:155:ARG:NE	1:H:91:GLN:NE2	2.44	0.64
1:K:10:VAL:HG22	1:L:134:LYS:HE3	1.79	0.64
1:K:152:ALA:CA	1:L:91:GLN:CB	2.76	0.64
1:M:87:MET:HE2	1:R:5:ASN:CA	2.28	0.64
1:Q:52:ALA:HB2	1:R:127:ILE:N	2.08	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:129:LYS:N	1:F:50:LEU:HB3	2.13	0.63
1:C:3:VAL:HG11	1:D:88:PRO:HG3	1.80	0.63
1:H:4:PRO:CB	1:I:87:MET:HB3	2.27	0.63
1:J:8:MET:CE	1:K:134:LYS:HB2	2.23	0.63
1:J:9:PRO:CD	1:K:135:GLU:OE1	2.43	0.63
1:M:155:ARG:NE	1:N:91:GLN:NE2	2.44	0.63
1:D:152:ALA:HA	1:E:91:GLN:CD	2.23	0.63
1:J:152:ALA:HA	1:K:91:GLN:CD	2.24	0.63
1:Q:152:ALA:CB	1:R:91:GLN:CB	2.42	0.63
1:B:3:VAL:HG11	1:C:88:PRO:HG3	1.78	0.63
1:D:15:THR:O	1:H:67:TRP:CE2	2.51	0.63
1:E:60:LEU:HD21	1:F:76:SER:HB2	1.80	0.63
1:K:3:VAL:HG11	1:L:88:PRO:HG3	1.80	0.63
1:K:8:MET:HE2	1:L:134:LYS:O	1.98	0.63
1:B:15:THR:O	1:L:67:TRP:CE2	2.52	0.63
1:M:3:VAL:HG11	1:N:88:PRO:CG	2.27	0.63
1:P:9:PRO:CG	1:Q:135:GLU:OE1	2.47	0.63
1:P:152:ALA:HA	1:Q:91:GLN:CD	2.24	0.63
1:Q:3:VAL:HG11	1:R:88:PRO:HG3	1.80	0.63
1:Q:10:VAL:HG22	1:R:134:LYS:HE3	1.79	0.63
1:B:10:VAL:HG22	1:C:134:LYS:HE3	1.79	0.63
1:C:8:MET:CG	1:D:134:LYS:CD	2.68	0.63
1:C:13:ALA:N	1:G:67:TRP:HE3	1.95	0.63
1:E:8:MET:HE2	1:F:134:LYS:O	1.98	0.63
1:E:9:PRO:CD	1:F:135:GLU:OE1	2.45	0.63
1:E:114:ASN:HB3	1:F:135:GLU:CG	2.17	0.63
1:H:152:ALA:CA	1:I:91:GLN:CB	2.74	0.63
1:J:9:PRO:CG	1:K:135:GLU:OE1	2.47	0.63
1:M:87:MET:CE	1:R:5:ASN:N	2.46	0.63
1:A:4:PRO:CA	1:B:88:PRO:O	2.46	0.63
1:D:9:PRO:CG	1:E:135:GLU:OE1	2.47	0.63
1:G:93:GLN:NE2	1:L:148:ARG:HG2	2.14	0.63
1:G:97:LEU:HD22	1:L:148:ARG:NH2	2.14	0.63
1:K:60:LEU:HD21	1:L:76:SER:HB2	1.80	0.63
1:A:129:LYS:HB3	1:F:50:LEU:CA	2.29	0.63
1:G:4:PRO:HA	1:H:87:MET:CE	2.25	0.63
1:N:9:PRO:CD	1:O:135:GLU:OE1	2.46	0.63
1:Q:52:ALA:CB	1:R:127:ILE:N	2.54	0.63
1:D:8:MET:HE1	1:E:134:LYS:O	1.99	0.63
1:E:3:VAL:HG11	1:F:88:PRO:HG3	1.80	0.63
1:G:87:MET:CE	1:L:5:ASN:N	2.46	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:50:LEU:H	1:K:129:LYS:C	2.07	0.63
1:M:4:PRO:HA	1:N:87:MET:CE	2.25	0.63
1:O:3:VAL:HG11	1:P:88:PRO:HG3	1.80	0.63
1:A:87:MET:HE1	1:F:5:ASN:O	1.97	0.62
1:I:152:ALA:CA	1:J:91:GLN:CB	2.74	0.62
1:K:15:THR:O	1:O:67:TRP:CE2	2.52	0.62
1:N:49:GLU:OE1	1:O:131:VAL:CG2	2.18	0.62
1:Q:8:MET:HE2	1:R:134:LYS:O	1.98	0.62
1:A:12:GLY:HA2	1:K:67:TRP:CE3	2.34	0.62
1:B:52:ALA:CB	1:C:127:ILE:N	2.55	0.62
1:C:12:GLY:CA	1:G:67:TRP:CE3	2.82	0.62
1:H:9:PRO:CD	1:I:135:GLU:OE1	2.46	0.62
1:O:155:ARG:HD3	1:P:91:GLN:NE2	2.15	0.62
1:B:8:MET:CG	1:C:134:LYS:CD	2.66	0.62
1:B:152:ALA:HA	1:C:91:GLN:CD	2.24	0.62
1:C:50:LEU:H	1:D:129:LYS:C	2.07	0.62
1:M:97:LEU:HD22	1:R:148:ARG:NH2	2.14	0.62
1:Q:152:ALA:HA	1:R:91:GLN:CD	2.24	0.62
1:A:127:ILE:N	1:F:52:ALA:CB	2.57	0.62
1:E:15:THR:O	1:I:67:TRP:CE2	2.53	0.62
1:G:13:ALA:CB	1:Q:65:ALA:C	2.68	0.62
1:H:152:ALA:HA	1:I:91:GLN:CD	2.24	0.62
1:A:4:PRO:HA	1:B:87:MET:CE	2.25	0.62
1:G:4:PRO:CG	1:H:89:GLY:CA	2.15	0.62
1:I:52:ALA:HB2	1:J:127:ILE:N	2.07	0.62
1:N:152:ALA:HA	1:O:91:GLN:CD	2.24	0.62
1:Q:152:ALA:CA	1:R:91:GLN:CB	2.76	0.62
1:A:155:ARG:HE	1:B:91:GLN:NE2	1.98	0.62
1:C:155:ARG:HD3	1:D:91:GLN:NE2	2.15	0.62
1:D:4:PRO:HG3	1:E:89:GLY:HA3	0.62	0.62
1:J:8:MET:HE1	1:K:134:LYS:O	1.99	0.62
1:K:49:GLU:OE1	1:L:131:VAL:CG2	2.20	0.62
1:O:50:LEU:H	1:P:129:LYS:C	2.08	0.62
1:A:9:PRO:HD2	1:B:135:GLU:OE1	2.00	0.62
1:A:129:LYS:C	1:F:50:LEU:H	2.07	0.62
1:G:8:MET:HA	1:H:134:LYS:HB3	1.82	0.62
1:J:15:THR:O	1:N:67:TRP:CE2	2.53	0.62
1:K:151:MET:C	1:L:91:GLN:CG	1.95	0.62
1:N:152:ALA:CA	1:O:91:GLN:CB	2.74	0.62
1:B:150:SER:CB	1:C:94:GLN:NE2	2.62	0.62
1:D:152:ALA:CB	1:E:91:GLN:CB	2.49	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:12:GLY:CA	1:J:68:THR:OG1	2.45	0.62
1:H:12:GLY:O	1:R:67:TRP:CZ3	2.52	0.62
1:M:134:LYS:CE	1:R:10:VAL:HG22	2.29	0.62
1:D:50:LEU:H	1:E:129:LYS:C	2.07	0.62
1:E:4:PRO:CB	1:F:87:MET:HB3	2.30	0.62
1:E:152:ALA:HB2	1:F:91:GLN:HB3	1.76	0.62
1:K:152:ALA:HA	1:L:91:GLN:CD	2.24	0.62
1:N:114:ASN:HB3	1:O:135:GLU:CG	2.16	0.62
1:Q:4:PRO:CB	1:R:87:MET:HB3	2.30	0.62
1:Q:150:SER:CB	1:R:94:GLN:NE2	2.63	0.62
1:I:50:LEU:H	1:J:129:LYS:C	2.07	0.62
1:K:4:PRO:CB	1:L:87:MET:HB3	2.30	0.62
1:A:151:MET:O	1:B:91:GLN:NE2	2.31	0.61
1:B:12:GLY:C	1:L:67:TRP:CZ3	2.74	0.61
1:M:8:MET:CE	1:N:134:LYS:O	2.48	0.61
1:A:124:VAL:O	1:F:54:SER:OG	2.18	0.61
1:E:152:ALA:HA	1:F:91:GLN:CD	2.24	0.61
1:G:12:GLY:HA2	1:Q:67:TRP:CE3	2.32	0.61
1:H:49:GLU:OE1	1:I:131:VAL:CG2	2.18	0.61
1:I:50:LEU:CB	1:J:129:LYS:HB3	2.29	0.61
1:I:114:ASN:HA	1:J:135:GLU:CD	2.25	0.61
1:L:12:GLY:CA	1:P:68:THR:OG1	2.45	0.61
1:Q:60:LEU:HD21	1:R:76:SER:HB2	1.80	0.61
1:C:114:ASN:HA	1:D:135:GLU:CD	2.25	0.61
1:E:150:SER:CB	1:F:94:GLN:NE2	2.63	0.61
1:O:50:LEU:CB	1:P:129:LYS:HB3	2.29	0.61
1:O:152:ALA:CA	1:P:91:GLN:CB	2.74	0.61
1:P:8:MET:HE1	1:Q:134:LYS:O	1.99	0.61
1:P:50:LEU:H	1:Q:129:LYS:C	2.07	0.61
1:Q:114:ASN:HB3	1:R:135:GLU:CG	2.17	0.61
1:B:12:GLY:O	1:L:67:TRP:CZ3	2.53	0.61
1:C:50:LEU:CB	1:D:129:LYS:HB3	2.29	0.61
1:I:114:ASN:CA	1:J:135:GLU:CD	2.68	0.61
1:I:155:ARG:HD3	1:J:91:GLN:NE2	2.15	0.61
1:M:8:MET:HA	1:N:134:LYS:HB3	1.82	0.61
1:P:8:MET:CG	1:Q:134:LYS:CD	2.58	0.61
1:G:8:MET:CE	1:H:134:LYS:O	2.48	0.61
1:M:134:LYS:CG	1:R:8:MET:SD	2.88	0.61
1:O:114:ASN:HA	1:P:135:GLU:CD	2.25	0.61
1:G:132:THR:O	1:L:47:PRO:CB	2.48	0.61
1:H:15:THR:O	1:R:67:TRP:CE2	2.54	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:4:PRO:HG3	1:K:89:GLY:HA3	0.62	0.61
1:P:114:ASN:HA	1:Q:135:GLU:CD	2.25	0.61
1:B:52:ALA:HB2	1:C:127:ILE:N	2.08	0.61
1:G:8:MET:O	1:R:72:GLN:NE2	2.34	0.61
1:I:12:GLY:CA	1:M:68:THR:CG2	2.60	0.61
1:G:88:PRO:C	1:L:4:PRO:CD	2.65	0.61
1:C:50:LEU:CA	1:D:129:LYS:HB3	2.31	0.61
1:D:114:ASN:HA	1:E:135:GLU:CD	2.25	0.61
1:J:114:ASN:HA	1:K:135:GLU:CD	2.25	0.61
1:N:152:ALA:HA	1:O:91:GLN:OE1	2.01	0.61
1:C:10:VAL:HG22	1:D:134:LYS:CE	2.31	0.61
1:G:134:LYS:CG	1:L:8:MET:SD	2.88	0.61
1:H:12:GLY:CA	1:R:67:TRP:CZ3	2.84	0.61
1:N:8:MET:HE2	1:O:134:LYS:O	2.00	0.61
1:B:3:VAL:HG11	1:C:88:PRO:CG	2.31	0.60
1:B:152:ALA:HA	1:C:91:GLN:OE1	2.01	0.60
1:J:4:PRO:CG	1:K:89:GLY:CA	2.10	0.60
1:M:4:PRO:CG	1:N:89:GLY:CA	2.15	0.60
1:M:155:ARG:CD	1:N:91:GLN:NE2	2.62	0.60
1:P:155:ARG:HD3	1:Q:91:GLN:NE2	2.16	0.60
1:A:50:LEU:CB	1:B:129:LYS:HB3	2.32	0.60
1:A:56:ASP:OD1	1:B:123:TRP:CE2	2.54	0.60
1:B:49:GLU:OE1	1:C:131:VAL:CG2	2.18	0.60
1:D:4:PRO:CG	1:E:89:GLY:CA	2.10	0.60
1:D:13:ALA:CA	1:H:68:THR:OG1	2.46	0.60
1:H:8:MET:HE2	1:I:134:LYS:O	1.99	0.60
1:H:150:SER:CB	1:I:94:GLN:NE2	2.62	0.60
1:M:89:GLY:N	1:R:4:PRO:CG	2.37	0.60
1:O:10:VAL:HG22	1:P:134:LYS:CE	2.31	0.60
1:D:155:ARG:HD3	1:E:91:GLN:NE2	2.17	0.60
1:G:103:GLY:O	1:L:56:ASP:O	2.20	0.60
1:H:152:ALA:HA	1:I:91:GLN:OE1	2.01	0.60
1:I:3:VAL:HG11	1:J:88:PRO:CG	2.31	0.60
1:I:47:PRO:CB	1:J:132:THR:O	2.48	0.60
1:Q:50:LEU:H	1:R:129:LYS:C	2.10	0.60
1:C:60:LEU:HD21	1:D:76:SER:HB2	1.84	0.60
1:G:134:LYS:CE	1:L:10:VAL:HG22	2.29	0.60
1:G:135:GLU:OE1	1:L:9:PRO:CD	2.49	0.60
1:M:152:ALA:CB	1:N:91:GLN:CB	2.47	0.60
1:O:47:PRO:CB	1:P:132:THR:O	2.48	0.60
1:O:60:LEU:HD21	1:P:76:SER:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:56:ASP:OD1	1:C:123:TRP:CE2	2.55	0.60
1:C:3:VAL:HG11	1:D:88:PRO:CG	2.31	0.60
1:E:50:LEU:H	1:F:129:LYS:C	2.10	0.60
1:G:155:ARG:CD	1:H:91:GLN:NE2	2.62	0.60
1:L:15:THR:O	1:P:67:TRP:CE2	2.55	0.60
1:O:3:VAL:HG11	1:P:88:PRO:CG	2.31	0.60
1:O:114:ASN:CA	1:P:135:GLU:CD	2.68	0.60
1:D:152:ALA:CA	1:E:91:GLN:CB	2.78	0.60
1:I:10:VAL:HG22	1:J:134:LYS:CE	2.31	0.60
1:I:12:GLY:CA	1:M:67:TRP:HE3	2.12	0.60
1:I:50:LEU:CA	1:J:129:LYS:HB3	2.31	0.60
1:H:56:ASP:OD1	1:I:123:TRP:CE2	2.55	0.60
1:I:8:MET:HE1	1:J:134:LYS:O	2.02	0.60
1:J:155:ARG:HD3	1:K:91:GLN:NE2	2.16	0.60
1:O:50:LEU:CA	1:P:129:LYS:HB3	2.31	0.60
1:D:8:MET:HA	1:E:134:LYS:HB3	1.84	0.60
1:I:12:GLY:C	1:M:67:TRP:CZ3	2.79	0.60
1:J:8:MET:CG	1:K:134:LYS:CD	2.58	0.60
1:M:88:PRO:C	1:R:4:PRO:HD3	2.26	0.60
1:A:50:LEU:N	1:B:129:LYS:HB3	2.17	0.60
1:O:8:MET:HE1	1:P:134:LYS:O	2.02	0.60
1:C:150:SER:HG	1:D:94:GLN:CD	2.10	0.59
1:G:50:LEU:N	1:H:129:LYS:HB3	2.17	0.59
1:M:103:GLY:O	1:R:56:ASP:O	2.20	0.59
1:M:135:GLU:OE1	1:R:9:PRO:CD	2.49	0.59
1:A:148:ARG:HG3	1:B:93:GLN:NE2	2.13	0.59
1:E:12:GLY:CA	1:I:67:TRP:CZ3	2.85	0.59
1:G:13:ALA:N	1:Q:67:TRP:HE3	1.98	0.59
1:G:113:PRO:CB	1:Q:66:ASP:OD1	2.46	0.59
1:G:123:TRP:CG	1:L:56:ASP:OD1	2.55	0.59
1:J:8:MET:HA	1:K:134:LYS:HB3	1.84	0.59
1:N:56:ASP:OD1	1:O:123:TRP:CE2	2.55	0.59
1:A:54:SER:HB2	1:B:127:ILE:CG2	2.29	0.59
1:C:47:PRO:CB	1:D:132:THR:O	2.49	0.59
1:M:50:LEU:N	1:N:129:LYS:HB3	2.17	0.59
1:D:152:ALA:HB2	1:E:91:GLN:O	2.03	0.59
1:I:8:MET:CE	1:J:134:LYS:HB2	2.31	0.59
1:K:50:LEU:H	1:L:129:LYS:C	2.10	0.59
1:A:8:MET:CB	1:B:134:LYS:CD	2.42	0.59
1:A:8:MET:HA	1:B:134:LYS:HB3	1.85	0.59
1:B:8:MET:HE2	1:C:134:LYS:O	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:50:LEU:H	1:I:129:LYS:C	2.11	0.59
1:I:10:VAL:HG22	1:J:134:LYS:NZ	2.17	0.59
1:K:150:SER:CB	1:L:94:GLN:NE2	2.63	0.59
1:N:47:PRO:CB	1:O:132:THR:O	2.50	0.59
1:N:150:SER:CB	1:O:94:GLN:NE2	2.62	0.59
1:E:152:ALA:CA	1:F:91:GLN:CB	2.76	0.59
1:F:12:GLY:CA	1:J:67:TRP:CZ3	2.84	0.59
1:B:9:PRO:CG	1:C:135:GLU:OE1	2.51	0.59
1:H:3:VAL:HG11	1:I:88:PRO:CG	2.31	0.59
1:L:12:GLY:CA	1:P:67:TRP:CZ3	2.86	0.59
1:M:93:GLN:NE2	1:R:148:ARG:HG2	2.14	0.59
1:N:9:PRO:CG	1:O:135:GLU:OE1	2.51	0.59
1:P:8:MET:HE2	1:Q:134:LYS:O	2.02	0.59
1:P:152:ALA:HB2	1:Q:91:GLN:O	2.03	0.59
1:C:10:VAL:HG22	1:D:134:LYS:NZ	2.17	0.59
1:N:50:LEU:H	1:O:129:LYS:C	2.11	0.59
1:O:10:VAL:HG22	1:P:134:LYS:NZ	2.17	0.59
1:P:8:MET:HA	1:Q:134:LYS:HB3	1.84	0.59
1:C:4:PRO:CG	1:D:89:GLY:CA	2.12	0.59
1:C:8:MET:HE1	1:D:134:LYS:O	2.02	0.59
1:E:3:VAL:HG11	1:F:88:PRO:CG	2.33	0.59
1:J:50:LEU:HB3	1:K:129:LYS:N	2.17	0.59
1:J:152:ALA:CA	1:K:91:GLN:CB	2.78	0.59
1:K:3:VAL:HG11	1:L:88:PRO:CG	2.32	0.59
1:M:8:MET:SD	1:N:134:LYS:CG	2.91	0.59
1:A:97:LEU:HD22	1:F:148:ARG:NH2	2.17	0.59
1:B:50:LEU:H	1:C:129:LYS:C	2.11	0.59
1:E:47:PRO:CB	1:F:132:THR:O	2.49	0.59
1:I:60:LEU:HD21	1:J:76:SER:HB2	1.84	0.59
1:J:8:MET:HE2	1:K:134:LYS:O	2.02	0.59
1:M:123:TRP:CG	1:R:56:ASP:OD1	2.55	0.59
1:N:3:VAL:HG11	1:O:88:PRO:CG	2.31	0.59
1:C:148:ARG:CG	1:D:93:GLN:NE2	2.50	0.58
1:F:15:THR:O	1:J:67:TRP:CE2	2.56	0.58
1:G:88:PRO:C	1:L:4:PRO:HD3	2.26	0.58
1:H:9:PRO:CG	1:I:135:GLU:OE1	2.51	0.58
1:I:50:LEU:HB3	1:J:129:LYS:N	2.17	0.58
1:K:50:LEU:CA	1:L:129:LYS:HB3	2.33	0.58
1:O:8:MET:CE	1:P:134:LYS:HB2	2.31	0.58
1:Q:3:VAL:HG11	1:R:88:PRO:CG	2.32	0.58
1:B:12:GLY:CA	1:L:67:TRP:CZ3	2.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:13:ALA:N	1:H:67:TRP:HE3	1.93	0.58
1:K:8:MET:CE	1:L:134:LYS:HB2	2.31	0.58
1:K:12:GLY:CA	1:O:67:TRP:CZ3	2.86	0.58
1:K:13:ALA:N	1:O:67:TRP:HE3	1.92	0.58
1:O:50:LEU:HB3	1:P:129:LYS:N	2.17	0.58
1:P:151:MET:C	1:Q:91:GLN:HB3	2.28	0.58
1:B:148:ARG:NH2	1:C:97:LEU:HD22	2.19	0.58
1:G:50:LEU:CB	1:H:129:LYS:HB3	2.33	0.58
1:K:50:LEU:CB	1:L:129:LYS:HB3	2.33	0.58
1:K:47:PRO:CB	1:L:132:THR:O	2.49	0.58
1:K:152:ALA:HA	1:L:91:GLN:OE1	2.03	0.58
1:M:9:PRO:CG	1:N:135:GLU:OE1	2.52	0.58
1:P:8:MET:HE2	1:Q:134:LYS:CB	2.15	0.58
1:P:48:GLY:C	1:Q:129:LYS:CG	2.47	0.58
1:P:114:ASN:HB3	1:Q:135:GLU:CG	2.15	0.58
1:Q:47:PRO:CB	1:R:132:THR:O	2.49	0.58
1:Q:50:LEU:CB	1:R:129:LYS:HB3	2.33	0.58
1:Q:50:LEU:HB3	1:R:129:LYS:N	2.18	0.58
1:Q:152:ALA:HA	1:R:91:GLN:OE1	2.03	0.58
1:D:8:MET:HE2	1:E:134:LYS:O	2.02	0.58
1:H:13:ALA:N	1:R:67:TRP:HE3	1.95	0.58
1:O:56:ASP:OD1	1:P:123:TRP:CE2	2.57	0.58
1:G:50:LEU:CD2	1:H:128:GLY:CA	2.68	0.58
1:G:54:SER:HB2	1:H:127:ILE:CG2	2.32	0.58
1:H:47:PRO:CB	1:I:132:THR:O	2.50	0.58
1:Q:56:ASP:OD1	1:R:123:TRP:CE2	2.56	0.58
1:C:114:ASN:CA	1:D:135:GLU:CD	2.68	0.58
1:E:9:PRO:CG	1:F:135:GLU:OE1	2.52	0.58
1:E:50:LEU:CB	1:F:129:LYS:HB3	2.33	0.58
1:P:152:ALA:CB	1:Q:38:ARG:NH2	2.42	0.58
1:P:152:ALA:CA	1:Q:91:GLN:CB	2.78	0.58
1:Q:50:LEU:CA	1:R:129:LYS:HB3	2.33	0.58
1:A:5:ASN:CA	1:B:87:MET:HE2	2.33	0.58
1:E:52:ALA:HB2	1:F:127:ILE:N	2.08	0.58
1:E:152:ALA:HA	1:F:91:GLN:OE1	2.03	0.58
1:G:8:MET:SD	1:H:134:LYS:CG	2.91	0.58
1:H:148:ARG:NH2	1:I:97:LEU:HD22	2.19	0.58
1:J:152:ALA:HB2	1:K:91:GLN:O	2.03	0.58
1:B:151:MET:CA	1:C:91:GLN:HG2	2.20	0.58
1:M:4:PRO:HG3	1:N:89:GLY:HA3	0.58	0.58
1:M:50:LEU:CB	1:N:129:LYS:HB3	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:127:ILE:N	1:F:52:ALA:HB2	2.10	0.58
1:B:13:ALA:N	1:L:67:TRP:HE3	1.97	0.58
1:G:9:PRO:CG	1:H:135:GLU:OE1	2.52	0.58
1:I:56:ASP:OD1	1:J:123:TRP:CE2	2.57	0.58
1:K:9:PRO:CG	1:L:135:GLU:OE1	2.52	0.58
1:K:56:ASP:OD1	1:L:123:TRP:CE2	2.56	0.58
1:C:12:GLY:C	1:G:67:TRP:CZ3	2.82	0.57
1:C:50:LEU:HB3	1:D:129:LYS:N	2.17	0.57
1:D:50:LEU:HB3	1:E:129:LYS:N	2.17	0.57
1:E:50:LEU:CA	1:F:129:LYS:HB3	2.33	0.57
1:H:13:ALA:HB2	1:R:65:ALA:C	2.26	0.57
1:C:56:ASP:OD1	1:D:123:TRP:CE2	2.57	0.57
1:E:56:ASP:OD1	1:F:123:TRP:CE2	2.56	0.57
1:M:50:LEU:CD2	1:N:128:GLY:CA	2.68	0.57
1:A:13:ALA:HB2	1:K:65:ALA:C	2.26	0.57
1:D:3:VAL:CB	1:E:88:PRO:HG2	2.34	0.57
1:Q:56:ASP:O	1:R:103:GLY:O	2.22	0.57
1:A:135:GLU:OE1	1:F:9:PRO:CG	2.53	0.57
1:B:8:MET:O	1:G:72:GLN:NE2	2.38	0.57
1:B:13:ALA:HB2	1:L:65:ALA:C	2.26	0.57
1:I:150:SER:HG	1:J:94:GLN:CD	2.12	0.57
1:N:152:ALA:HB2	1:O:91:GLN:HB3	1.77	0.57
1:Q:9:PRO:CG	1:R:135:GLU:OE1	2.52	0.57
1:D:10:VAL:HG22	1:E:134:LYS:HE3	1.86	0.57
1:J:3:VAL:CB	1:K:88:PRO:HG2	2.34	0.57
1:H:13:ALA:CA	1:R:68:THR:OG1	2.50	0.57
1:J:152:ALA:CB	1:K:91:GLN:CB	2.49	0.57
1:N:48:GLY:C	1:O:129:LYS:CG	2.52	0.57
1:H:50:LEU:HB3	1:I:129:LYS:N	2.20	0.57
1:K:56:ASP:O	1:L:103:GLY:O	2.22	0.57
1:A:4:PRO:CG	1:B:89:GLY:CA	2.15	0.57
1:A:155:ARG:NE	1:B:91:GLN:NE2	2.50	0.57
1:D:10:VAL:HG22	1:E:134:LYS:NZ	2.20	0.57
1:D:12:GLY:CA	1:H:67:TRP:CZ3	2.88	0.57
1:E:56:ASP:O	1:F:103:GLY:O	2.22	0.57
1:P:4:PRO:CG	1:Q:89:GLY:CA	2.10	0.57
1:A:134:LYS:CE	1:F:10:VAL:HG22	2.34	0.57
1:B:50:LEU:CB	1:C:129:LYS:HB3	2.34	0.57
1:D:50:LEU:CA	1:E:129:LYS:HB3	2.35	0.57
1:G:151:MET:O	1:H:91:GLN:NE2	2.35	0.57
1:H:50:LEU:CA	1:I:129:LYS:HB3	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:50:LEU:HB3	1:C:129:LYS:N	2.20	0.57
1:D:60:LEU:HD21	1:E:76:SER:CB	2.34	0.57
1:H:50:LEU:CB	1:I:129:LYS:HB3	2.34	0.57
1:J:50:LEU:CA	1:K:129:LYS:HB3	2.35	0.57
1:M:132:THR:O	1:R:47:PRO:CB	2.48	0.57
1:A:13:ALA:HB1	1:K:65:ALA:O	2.04	0.56
1:C:56:ASP:O	1:D:103:GLY:O	2.23	0.56
1:G:4:PRO:HG3	1:H:89:GLY:HA3	0.58	0.56
1:J:10:VAL:HG22	1:K:134:LYS:HE3	1.86	0.56
1:N:148:ARG:NH2	1:O:97:LEU:HD22	2.19	0.56
1:P:3:VAL:CB	1:Q:88:PRO:HG2	2.34	0.56
1:B:152:ALA:CB	1:C:91:GLN:CB	2.43	0.56
1:E:50:LEU:N	1:F:129:LYS:HB3	2.20	0.56
1:I:56:ASP:O	1:J:103:GLY:O	2.23	0.56
1:J:10:VAL:HG22	1:K:134:LYS:NZ	2.20	0.56
1:J:12:GLY:CA	1:N:67:TRP:CZ3	2.87	0.56
1:J:152:ALA:CB	1:K:38:ARG:NH2	2.42	0.56
1:M:89:GLY:CA	1:R:4:PRO:CB	2.71	0.56
1:P:50:LEU:CA	1:Q:129:LYS:HB3	2.35	0.56
1:B:47:PRO:CB	1:C:132:THR:O	2.50	0.56
1:B:50:LEU:CA	1:C:129:LYS:HB3	2.35	0.56
1:D:8:MET:CG	1:E:134:LYS:CD	2.58	0.56
1:G:12:GLY:O	1:Q:67:TRP:CZ3	2.58	0.56
1:H:10:VAL:HG22	1:I:134:LYS:CE	2.36	0.56
1:H:13:ALA:CB	1:R:65:ALA:C	2.73	0.56
1:J:13:ALA:CA	1:N:68:THR:OG1	2.49	0.56
1:J:151:MET:C	1:K:91:GLN:HB3	2.28	0.56
1:K:50:LEU:N	1:L:129:LYS:HB3	2.20	0.56
1:K:50:LEU:HB3	1:L:129:LYS:N	2.18	0.56
1:M:76:SER:HB2	1:R:60:LEU:HD21	1.87	0.56
1:M:155:ARG:HD3	1:N:91:GLN:NE2	2.20	0.56
1:N:10:VAL:HG22	1:O:134:LYS:CE	2.36	0.56
1:N:50:LEU:CA	1:O:129:LYS:HB3	2.35	0.56
1:P:10:VAL:HG22	1:Q:134:LYS:NZ	2.20	0.56
1:P:10:VAL:HG22	1:Q:134:LYS:HE3	1.86	0.56
1:Q:50:LEU:N	1:R:129:LYS:HB3	2.20	0.56
1:A:91:GLN:CD	1:F:155:ARG:NE	2.63	0.56
1:C:12:GLY:CA	1:G:67:TRP:HE3	2.16	0.56
1:D:13:ALA:CA	1:H:68:THR:CA	2.83	0.56
1:G:56:ASP:OD1	1:H:123:TRP:CE2	2.58	0.56
1:I:148:ARG:CG	1:J:93:GLN:NE2	2.50	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:114:ASN:HA	1:I:135:GLU:CD	2.31	0.56
1:M:56:ASP:OD1	1:N:123:TRP:CE2	2.58	0.56
1:A:91:GLN:OE1	1:F:155:ARG:NE	2.38	0.56
1:G:155:ARG:HD3	1:H:91:GLN:NE2	2.20	0.56
1:E:148:ARG:NH2	1:F:97:LEU:HD22	2.21	0.56
1:L:13:ALA:CA	1:P:68:THR:CA	2.83	0.56
1:O:56:ASP:O	1:P:103:GLY:O	2.23	0.56
1:A:91:GLN:CD	1:F:155:ARG:HE	2.14	0.56
1:B:114:ASN:HA	1:C:135:GLU:CD	2.30	0.56
1:H:152:ALA:HB2	1:I:91:GLN:HB3	1.78	0.56
1:J:50:LEU:CD2	1:K:128:GLY:CA	2.70	0.56
1:J:60:LEU:HD21	1:K:76:SER:CB	2.34	0.56
1:N:151:MET:C	1:O:91:GLN:HB3	2.31	0.56
1:A:3:VAL:CB	1:B:88:PRO:HG2	2.36	0.56
1:A:8:MET:CE	1:B:134:LYS:O	2.53	0.56
1:A:152:ALA:CB	1:B:38:ARG:NH2	2.40	0.56
1:B:10:VAL:HG22	1:C:134:LYS:CE	2.36	0.56
1:E:10:VAL:HG22	1:F:134:LYS:CE	2.36	0.56
1:M:135:GLU:CB	1:R:114:ASN:HB3	2.36	0.56
1:P:60:LEU:HD21	1:Q:76:SER:CB	2.34	0.56
1:A:155:ARG:CD	1:B:91:GLN:NE2	2.66	0.56
1:G:152:ALA:CA	1:H:91:GLN:CB	2.83	0.56
1:J:13:ALA:CA	1:N:68:THR:CA	2.84	0.56
1:P:4:PRO:HA	1:Q:87:MET:CE	2.27	0.56
1:P:50:LEU:HB3	1:Q:129:LYS:N	2.17	0.56
1:C:8:MET:HA	1:D:134:LYS:HB3	1.88	0.55
1:C:9:PRO:CG	1:D:135:GLU:OE1	2.55	0.55
1:I:113:PRO:HB3	1:M:66:ASP:CG	2.31	0.55
1:J:113:PRO:HB3	1:N:66:ASP:OD2	2.06	0.55
1:N:114:ASN:HA	1:O:135:GLU:CD	2.31	0.55
1:O:150:SER:HG	1:P:94:GLN:CD	2.13	0.55
1:B:13:ALA:CB	1:L:65:ALA:C	2.73	0.55
1:I:8:MET:HA	1:J:134:LYS:HB3	1.88	0.55
1:J:8:MET:HB2	1:O:72:GLN:HE21	1.71	0.55
1:M:54:SER:HB2	1:N:127:ILE:CG2	2.32	0.55
1:O:8:MET:HA	1:P:134:LYS:HB3	1.88	0.55
1:D:50:LEU:N	1:E:129:LYS:HB3	2.22	0.55
1:H:12:GLY:HA3	1:R:68:THR:CB	2.35	0.55
1:O:9:PRO:CG	1:P:135:GLU:OE1	2.54	0.55
1:C:13:ALA:CB	1:G:65:ALA:C	2.65	0.55
1:K:10:VAL:HG22	1:L:134:LYS:CE	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:8:MET:CG	1:N:134:LYS:CD	2.72	0.55
1:M:152:ALA:CA	1:N:91:GLN:CB	2.83	0.55
1:N:8:MET:HA	1:O:134:LYS:HB3	1.89	0.55
1:G:3:VAL:CB	1:H:88:PRO:HG2	2.36	0.55
1:I:13:ALA:CB	1:M:65:ALA:C	2.66	0.55
1:I:148:ARG:NH2	1:J:97:LEU:HD22	2.22	0.55
1:J:4:PRO:HA	1:K:87:MET:CE	2.27	0.55
1:M:134:LYS:CD	1:R:8:MET:CB	2.57	0.55
1:N:56:ASP:O	1:O:103:GLY:O	2.25	0.55
1:G:135:GLU:CB	1:L:114:ASN:HB3	2.36	0.55
1:O:148:ARG:NH2	1:P:97:LEU:HD22	2.22	0.55
1:G:89:GLY:CA	1:L:4:PRO:CB	2.71	0.55
1:H:56:ASP:O	1:I:103:GLY:O	2.25	0.55
1:M:3:VAL:CB	1:N:88:PRO:HG2	2.36	0.55
1:O:9:PRO:CD	1:P:135:GLU:OE1	2.54	0.55
1:B:8:MET:HA	1:C:134:LYS:HB3	1.89	0.55
1:B:56:ASP:O	1:C:103:GLY:O	2.25	0.55
1:G:12:GLY:C	1:Q:67:TRP:CZ3	2.80	0.55
1:G:76:SER:HB2	1:L:60:LEU:HD21	1.87	0.55
1:H:8:MET:O	1:M:72:GLN:NE2	2.40	0.55
1:J:50:LEU:N	1:K:129:LYS:HB3	2.22	0.55
1:P:50:LEU:N	1:Q:129:LYS:HB3	2.22	0.55
1:F:13:ALA:CA	1:J:68:THR:CA	2.85	0.55
1:H:8:MET:HA	1:I:134:LYS:HB3	1.89	0.55
1:I:50:LEU:N	1:J:129:LYS:HB3	2.22	0.55
1:J:12:GLY:CA	1:N:68:THR:CG2	2.71	0.55
1:A:56:ASP:CG	1:B:123:TRP:CG	2.68	0.55
1:A:123:TRP:CG	1:F:56:ASP:OD1	2.59	0.55
1:C:9:PRO:CD	1:D:135:GLU:OE1	2.53	0.55
1:C:50:LEU:N	1:D:129:LYS:HB3	2.22	0.55
1:E:50:LEU:HB3	1:F:129:LYS:N	2.18	0.55
1:I:9:PRO:CG	1:J:135:GLU:OE1	2.54	0.55
1:A:148:ARG:NH2	1:B:97:LEU:HD22	2.21	0.54
1:K:148:ARG:NH2	1:L:97:LEU:HD22	2.21	0.54
1:N:50:LEU:CB	1:O:129:LYS:HB3	2.34	0.54
1:Q:10:VAL:HG22	1:R:134:LYS:CE	2.36	0.54
1:Q:148:ARG:NH2	1:R:97:LEU:HD22	2.21	0.54
1:A:132:THR:O	1:F:47:PRO:CB	2.51	0.54
1:A:155:ARG:HD3	1:B:91:GLN:NE2	2.23	0.54
1:H:50:LEU:N	1:I:129:LYS:HB3	2.23	0.54
1:N:50:LEU:N	1:O:129:LYS:HB3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:151:MET:C	1:E:91:GLN:HB3	2.28	0.54
1:I:12:GLY:O	1:M:67:TRP:CZ3	2.59	0.54
1:B:8:MET:HB2	1:G:72:GLN:HE21	1.73	0.54
1:G:129:LYS:HB3	1:L:50:LEU:CB	2.37	0.54
1:M:148:ARG:NH2	1:N:97:LEU:HD22	2.23	0.54
1:O:50:LEU:N	1:P:129:LYS:HB3	2.22	0.54
1:A:91:GLN:HE22	1:F:155:ARG:CG	2.18	0.54
1:C:148:ARG:NH2	1:D:97:LEU:HD22	2.22	0.54
1:D:13:ALA:HB2	1:H:65:ALA:C	2.32	0.54
1:A:9:PRO:CG	1:B:135:GLU:OE1	2.56	0.54
1:G:148:ARG:NH2	1:H:97:LEU:HD22	2.23	0.54
1:M:129:LYS:HB3	1:R:50:LEU:CB	2.37	0.54
1:N:5:ASN:O	1:O:87:MET:HE1	2.06	0.54
1:B:50:LEU:N	1:C:129:LYS:HB3	2.23	0.54
1:C:152:ALA:HB2	1:D:91:GLN:O	2.08	0.54
1:G:135:GLU:OE1	1:L:9:PRO:CG	2.56	0.54
1:I:9:PRO:CD	1:J:135:GLU:OE1	2.53	0.54
1:K:114:ASN:HA	1:L:135:GLU:CD	2.33	0.54
1:M:8:MET:HE1	1:N:134:LYS:O	2.08	0.54
1:D:47:PRO:CB	1:E:132:THR:O	2.55	0.54
1:E:114:ASN:HA	1:F:135:GLU:CD	2.33	0.54
1:G:13:ALA:HB2	1:Q:65:ALA:C	2.30	0.54
1:H:10:VAL:HG22	1:I:134:LYS:NZ	2.22	0.54
1:J:13:ALA:N	1:N:67:TRP:HE3	1.93	0.54
1:M:151:MET:O	1:N:91:GLN:NE2	2.35	0.54
1:D:113:PRO:HB3	1:H:66:ASP:OD2	2.08	0.54
1:J:47:PRO:CB	1:K:132:THR:O	2.55	0.54
1:K:13:ALA:CA	1:O:68:THR:CA	2.86	0.54
1:O:3:VAL:CB	1:P:88:PRO:HG2	2.38	0.54
1:O:152:ALA:HB2	1:P:91:GLN:O	2.08	0.54
1:C:12:GLY:O	1:G:67:TRP:CZ3	2.61	0.53
1:C:113:PRO:HB3	1:G:66:ASP:CG	2.33	0.53
1:E:5:ASN:O	1:F:87:MET:HE1	2.05	0.53
1:N:10:VAL:HG22	1:O:134:LYS:NZ	2.22	0.53
1:B:114:ASN:CA	1:C:135:GLU:CD	2.76	0.53
1:O:148:ARG:CG	1:P:93:GLN:NE2	2.50	0.53
1:P:56:ASP:O	1:Q:123:TRP:HB3	2.09	0.53
1:Q:114:ASN:HA	1:R:135:GLU:CD	2.33	0.53
1:A:47:PRO:CB	1:B:132:THR:O	2.54	0.53
1:B:10:VAL:HG22	1:C:134:LYS:NZ	2.22	0.53
1:D:4:PRO:HD3	1:E:88:PRO:C	2.28	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:15:THR:O	1:I:67:TRP:HZ2	1.91	0.53
1:G:8:MET:HE1	1:H:134:LYS:O	2.08	0.53
1:K:152:ALA:CB	1:L:91:GLN:CB	2.42	0.53
1:O:8:MET:HE2	1:P:134:LYS:O	2.08	0.53
1:C:8:MET:HE2	1:D:134:LYS:O	2.08	0.53
1:G:9:PRO:CD	1:H:135:GLU:OE1	2.56	0.53
1:H:151:MET:C	1:I:91:GLN:HB3	2.31	0.53
1:M:114:ASN:HB3	1:N:135:GLU:CB	2.36	0.53
1:M:135:GLU:OE1	1:R:9:PRO:CG	2.56	0.53
1:P:47:PRO:CB	1:Q:132:THR:O	2.55	0.53
1:P:50:LEU:CB	1:Q:129:LYS:HB3	2.39	0.53
1:D:8:MET:HB2	1:I:72:GLN:HE21	1.73	0.53
1:H:15:THR:O	1:R:67:TRP:NE1	2.41	0.53
1:J:56:ASP:O	1:K:123:TRP:HB3	2.09	0.53
1:N:50:LEU:HB3	1:O:129:LYS:N	2.20	0.53
1:O:4:PRO:HA	1:P:87:MET:CE	2.28	0.53
1:C:3:VAL:CB	1:D:88:PRO:HG2	2.38	0.53
1:E:152:ALA:CB	1:F:91:GLN:CB	2.43	0.53
1:H:114:ASN:CA	1:I:135:GLU:CD	2.76	0.53
1:I:12:GLY:HA2	1:M:67:TRP:HE3	1.74	0.53
1:J:50:LEU:CB	1:K:129:LYS:HB3	2.39	0.53
1:D:56:ASP:O	1:E:103:GLY:O	2.27	0.53
1:G:47:PRO:CB	1:H:132:THR:O	2.56	0.53
1:I:152:ALA:HB2	1:J:91:GLN:O	2.08	0.53
1:M:54:SER:H	1:N:100:PHE:HE2	1.57	0.53
1:I:8:MET:HE2	1:J:134:LYS:O	2.08	0.53
1:D:56:ASP:O	1:E:123:TRP:HB3	2.09	0.53
1:E:10:VAL:HG22	1:F:134:LYS:NZ	2.24	0.53
1:G:54:SER:H	1:H:100:PHE:HE2	1.57	0.53
1:O:151:MET:C	1:P:91:GLN:HB3	2.31	0.53
1:A:60:LEU:HD21	1:B:76:SER:HB2	1.90	0.52
1:N:3:VAL:HG12	1:O:88:PRO:CG	2.32	0.52
1:A:54:SER:H	1:B:100:PHE:HE2	1.57	0.52
1:C:13:ALA:HB1	1:G:65:ALA:C	2.34	0.52
1:D:15:THR:O	1:H:67:TRP:NE1	2.40	0.52
1:E:8:MET:HA	1:F:134:LYS:HB3	1.90	0.52
1:J:8:MET:HE2	1:K:134:LYS:CB	2.15	0.52
1:M:9:PRO:CD	1:N:135:GLU:OE1	2.56	0.52
1:B:5:ASN:O	1:C:87:MET:HE1	2.06	0.52
1:B:12:GLY:CA	1:L:68:THR:CG2	2.71	0.52
1:D:8:MET:O	1:I:72:GLN:NE2	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:50:LEU:CB	1:E:129:LYS:HB3	2.39	0.52
1:E:13:ALA:HB2	1:I:65:ALA:C	2.27	0.52
1:K:10:VAL:HG22	1:L:134:LYS:NZ	2.23	0.52
1:A:8:MET:SD	1:B:134:LYS:CG	2.97	0.52
1:A:113:PRO:CB	1:K:66:ASP:OD1	2.51	0.52
1:B:3:VAL:HG12	1:C:88:PRO:CG	2.32	0.52
1:I:3:VAL:CB	1:J:88:PRO:HG2	2.38	0.52
1:Q:10:VAL:HG22	1:R:134:LYS:NZ	2.24	0.52
1:Q:151:MET:C	1:R:91:GLN:HB3	2.34	0.52
1:B:13:ALA:CA	1:L:68:THR:CA	2.87	0.52
1:C:151:MET:C	1:D:91:GLN:HB3	2.31	0.52
1:D:4:PRO:HA	1:E:87:MET:CE	2.27	0.52
1:J:4:PRO:HB2	1:K:87:MET:HB3	1.91	0.52
1:M:47:PRO:CB	1:N:132:THR:O	2.56	0.52
1:P:56:ASP:O	1:Q:103:GLY:O	2.27	0.52
1:D:10:VAL:HG22	1:E:134:LYS:CE	2.40	0.52
1:J:10:VAL:HG22	1:K:134:LYS:CE	2.40	0.52
1:J:13:ALA:HB2	1:N:65:ALA:C	2.34	0.52
1:J:56:ASP:O	1:K:103:GLY:O	2.27	0.52
1:K:8:MET:HA	1:L:134:LYS:HB3	1.90	0.52
1:M:91:GLN:OE1	1:R:155:ARG:NE	2.42	0.52
1:P:8:MET:CE	1:Q:134:LYS:HB2	2.23	0.52
1:A:49:GLU:N	1:B:130:ALA:O	2.43	0.52
1:E:151:MET:C	1:F:91:GLN:HB3	2.34	0.52
1:I:12:GLY:HA2	1:M:67:TRP:CE3	2.43	0.52
1:O:50:LEU:CD2	1:P:128:GLY:CA	2.76	0.52
1:E:13:ALA:CA	1:I:68:THR:CA	2.88	0.52
1:H:3:VAL:HG12	1:I:88:PRO:CG	2.32	0.52
1:J:4:PRO:HD3	1:K:88:PRO:C	2.28	0.52
1:K:12:GLY:HA3	1:O:68:THR:CB	2.39	0.52
1:M:8:MET:HE2	1:N:134:LYS:O	2.10	0.52
1:H:49:GLU:CD	1:I:131:VAL:HG22	1.99	0.52
1:Q:8:MET:HA	1:R:134:LYS:HB3	1.90	0.52
1:B:155:ARG:HE	1:C:91:GLN:CD	2.18	0.52
1:D:12:GLY:HA3	1:H:68:THR:CB	2.38	0.52
1:D:50:LEU:CD2	1:E:128:GLY:CA	2.70	0.52
1:G:13:ALA:HB1	1:Q:65:ALA:O	2.10	0.52
1:A:152:ALA:CB	1:B:91:GLN:CB	2.52	0.51
1:D:4:PRO:HB2	1:E:87:MET:HB3	1.91	0.51
1:P:3:VAL:HG12	1:Q:88:PRO:CG	2.32	0.51
1:A:152:ALA:CA	1:B:91:GLN:CB	2.88	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:8:MET:CE	1:C:134:LYS:HB2	2.30	0.51
1:C:13:ALA:HB2	1:G:65:ALA:C	2.31	0.51
1:G:60:LEU:HD21	1:H:76:SER:HB2	1.93	0.51
1:I:151:MET:C	1:J:91:GLN:HB3	2.31	0.51
1:K:5:ASN:O	1:L:87:MET:HE1	2.05	0.51
1:M:148:ARG:HG3	1:N:93:GLN:NE2	2.19	0.51
1:D:152:ALA:CB	1:E:38:ARG:NH2	2.42	0.51
1:E:3:VAL:HG12	1:F:88:PRO:CG	2.32	0.51
1:G:8:MET:HE2	1:H:134:LYS:O	2.10	0.51
1:K:3:VAL:HG12	1:L:88:PRO:CG	2.32	0.51
1:K:151:MET:C	1:L:91:GLN:HB3	2.34	0.51
1:N:3:VAL:CB	1:O:88:PRO:HG2	2.40	0.51
1:A:135:GLU:HG2	1:F:9:PRO:HD2	1.92	0.51
1:G:123:TRP:CE2	1:L:56:ASP:OD1	2.62	0.51
1:H:3:VAL:CB	1:I:88:PRO:HG2	2.40	0.51
1:N:155:ARG:HE	1:O:91:GLN:CD	2.18	0.51
1:A:12:GLY:O	1:K:67:TRP:CZ3	2.64	0.51
1:G:8:MET:CG	1:H:134:LYS:CD	2.71	0.51
1:G:91:GLN:OE1	1:L:155:ARG:NE	2.43	0.51
1:G:114:ASN:HB3	1:H:135:GLU:CB	2.36	0.51
1:J:15:THR:O	1:N:67:TRP:NE1	2.41	0.51
1:M:129:LYS:NZ	1:R:48:GLY:CA	2.72	0.51
1:P:10:VAL:HG22	1:Q:134:LYS:CE	2.40	0.51
1:A:50:LEU:CD2	1:B:129:LYS:H	2.23	0.51
1:H:5:ASN:O	1:I:87:MET:HE1	2.06	0.51
1:J:8:MET:O	1:O:72:GLN:NE2	2.44	0.51
1:D:12:GLY:CA	1:H:68:THR:CG2	2.71	0.51
1:E:12:GLY:HA3	1:I:68:THR:CB	2.39	0.51
1:M:123:TRP:CE2	1:R:56:ASP:OD1	2.62	0.51
1:N:152:ALA:HB2	1:O:91:GLN:O	2.11	0.51
1:A:93:GLN:NE2	1:F:148:ARG:HG2	2.21	0.51
1:G:128:GLY:CA	1:L:50:LEU:CD2	2.78	0.51
1:H:8:MET:HB2	1:M:72:GLN:HE21	1.75	0.51
1:G:148:ARG:HG3	1:H:93:GLN:NE2	2.19	0.51
1:P:50:LEU:CD2	1:Q:128:GLY:CA	2.70	0.51
1:A:8:MET:HE1	1:B:134:LYS:O	2.11	0.51
1:A:13:ALA:N	1:K:67:TRP:HE3	2.02	0.51
1:B:152:ALA:HB2	1:C:91:GLN:O	2.11	0.51
1:E:155:ARG:HE	1:F:91:GLN:CD	2.18	0.51
1:G:56:ASP:CG	1:H:123:TRP:CG	2.72	0.51
1:H:155:ARG:HE	1:I:91:GLN:CD	2.18	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:155:ARG:HE	1:L:91:GLN:CD	2.18	0.51
1:A:129:LYS:HB3	1:F:50:LEU:CB	2.40	0.50
1:H:13:ALA:CA	1:R:68:THR:CA	2.90	0.50
1:I:13:ALA:HB2	1:M:65:ALA:C	2.30	0.50
1:J:3:VAL:HG12	1:K:88:PRO:CG	2.32	0.50
1:J:12:GLY:HA3	1:N:68:THR:CB	2.38	0.50
1:B:3:VAL:CB	1:C:88:PRO:HG2	2.40	0.50
1:G:134:LYS:CD	1:L:8:MET:CB	2.57	0.50
1:H:152:ALA:HB2	1:I:91:GLN:O	2.11	0.50
1:I:4:PRO:HB2	1:J:87:MET:HB3	1.93	0.50
1:I:13:ALA:HB1	1:M:65:ALA:C	2.36	0.50
1:N:8:MET:CE	1:O:134:LYS:HB2	2.30	0.50
1:C:13:ALA:CA	1:G:68:THR:CA	2.68	0.50
1:J:49:GLU:OE1	1:K:131:VAL:CG2	2.21	0.50
1:C:4:PRO:HB2	1:D:87:MET:HB3	1.93	0.50
1:C:13:ALA:HB1	1:G:65:ALA:O	2.11	0.50
1:N:151:MET:CA	1:O:91:GLN:HG2	2.20	0.50
1:P:4:PRO:HD3	1:Q:88:PRO:C	2.28	0.50
1:A:50:LEU:N	1:B:129:LYS:C	2.66	0.50
1:P:4:PRO:HB2	1:Q:87:MET:HB3	1.91	0.50
1:A:56:ASP:O	1:B:123:TRP:HB3	2.12	0.50
1:A:135:GLU:CB	1:F:114:ASN:HB3	2.42	0.50
1:C:12:GLY:HA2	1:G:67:TRP:HE3	1.76	0.50
1:G:134:LYS:HB3	1:L:8:MET:HA	1.94	0.50
1:M:60:LEU:HD21	1:N:76:SER:HB2	1.93	0.50
1:M:94:GLN:NE2	1:R:150:SER:C	2.70	0.50
1:Q:3:VAL:HG12	1:R:88:PRO:CG	2.32	0.50
1:A:52:ALA:HB2	1:B:127:ILE:C	2.37	0.50
1:A:134:LYS:HB3	1:F:8:MET:HA	1.93	0.50
1:C:12:GLY:HA2	1:G:67:TRP:CE3	2.46	0.50
1:D:148:ARG:HG3	1:E:93:GLN:NE2	2.20	0.50
1:G:129:LYS:NZ	1:L:48:GLY:CA	2.72	0.50
1:G:152:ALA:CB	1:H:38:ARG:NH2	2.45	0.50
1:J:152:ALA:N	1:K:91:GLN:CB	2.75	0.50
1:M:56:ASP:CG	1:N:123:TRP:CG	2.72	0.50
1:Q:49:GLU:OE1	1:R:131:VAL:CG2	2.20	0.50
1:Q:155:ARG:HE	1:R:91:GLN:CD	2.18	0.50
1:A:88:PRO:HB2	1:F:3:VAL:HB	1.93	0.50
1:C:8:MET:CE	1:D:134:LYS:HB2	2.31	0.50
1:G:87:MET:HB3	1:L:4:PRO:CB	2.42	0.50
1:G:91:GLN:HE22	1:L:155:ARG:CG	2.21	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:91:GLN:CD	1:L:155:ARG:HE	2.19	0.50
1:J:56:ASP:O	1:K:123:TRP:CB	2.60	0.50
1:M:91:GLN:CD	1:R:155:ARG:NE	2.70	0.50
1:P:152:ALA:N	1:Q:91:GLN:CB	2.75	0.50
1:Q:5:ASN:O	1:R:87:MET:HE1	2.05	0.50
1:D:56:ASP:O	1:E:123:TRP:CB	2.60	0.49
1:A:48:GLY:HA3	1:B:129:LYS:HZ1	1.73	0.49
1:B:60:LEU:HD21	1:C:76:SER:CB	2.42	0.49
1:I:4:PRO:HA	1:J:87:MET:CE	2.28	0.49
1:M:87:MET:HB3	1:R:4:PRO:CB	2.42	0.49
1:B:151:MET:C	1:C:91:GLN:HB3	2.31	0.49
1:G:91:GLN:CD	1:L:155:ARG:NE	2.70	0.49
1:K:13:ALA:HB2	1:O:65:ALA:C	2.29	0.49
1:G:113:PRO:HB3	1:Q:66:ASP:OD2	2.12	0.49
1:H:60:LEU:HD21	1:I:76:SER:CB	2.42	0.49
1:I:13:ALA:HB1	1:M:65:ALA:O	2.13	0.49
1:D:152:ALA:N	1:E:91:GLN:CB	2.75	0.49
1:I:50:LEU:CD2	1:J:129:LYS:H	2.26	0.49
1:N:60:LEU:HD21	1:O:76:SER:CB	2.42	0.49
1:P:56:ASP:O	1:Q:123:TRP:CB	2.60	0.49
1:B:15:THR:O	1:L:67:TRP:NE1	2.39	0.49
1:M:91:GLN:CD	1:R:155:ARG:HE	2.20	0.49
1:O:4:PRO:HB2	1:P:87:MET:HB3	1.93	0.49
1:A:114:ASN:HA	1:B:135:GLU:HG3	1.95	0.49
1:O:8:MET:CG	1:P:134:LYS:CD	2.68	0.49
1:D:3:VAL:HB	1:E:88:PRO:HG2	1.95	0.49
1:E:8:MET:HE2	1:F:134:LYS:CB	2.23	0.49
1:K:3:VAL:CB	1:L:88:PRO:HG2	2.43	0.49
1:Q:3:VAL:CB	1:R:88:PRO:HG2	2.43	0.49
1:Q:50:LEU:CD2	1:R:128:GLY:CA	2.80	0.49
1:A:76:SER:HB2	1:F:60:LEU:HD21	1.93	0.49
1:C:8:MET:HB2	1:H:72:GLN:HE21	1.78	0.49
1:F:15:THR:O	1:J:67:TRP:HZ2	1.93	0.49
1:H:8:MET:CE	1:I:134:LYS:HB2	2.30	0.49
1:O:152:ALA:N	1:P:91:GLN:CB	2.76	0.49
1:A:4:PRO:HG3	1:B:89:GLY:HA3	0.52	0.49
1:A:12:GLY:C	1:K:67:TRP:CZ3	2.85	0.49
1:A:94:GLN:NE2	1:F:150:SER:C	2.70	0.49
1:C:4:PRO:HA	1:D:87:MET:CE	2.28	0.49
1:C:50:LEU:CD2	1:D:128:GLY:CA	2.76	0.49
1:G:74:GLN:HE22	1:L:63:GLU:HG2	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:74:GLN:HE22	1:R:63:GLU:HG2	1.78	0.49
1:I:114:ASN:HB3	1:J:135:GLU:CB	2.43	0.48
1:I:152:ALA:N	1:J:91:GLN:CB	2.76	0.48
1:J:114:ASN:CA	1:K:135:GLU:CD	2.71	0.48
1:M:91:GLN:HE22	1:R:155:ARG:CG	2.21	0.48
1:O:114:ASN:HB3	1:P:135:GLU:CB	2.43	0.48
1:Q:8:MET:CE	1:R:134:LYS:HB2	2.31	0.48
1:D:3:VAL:HG12	1:E:88:PRO:CG	2.32	0.48
1:E:13:ALA:CB	1:I:65:ALA:C	2.73	0.48
1:G:8:MET:CE	1:H:134:LYS:HB2	2.35	0.48
1:K:15:THR:O	1:O:67:TRP:HZ2	1.93	0.48
1:C:50:LEU:CD2	1:D:129:LYS:H	2.26	0.48
1:J:4:PRO:CA	1:K:87:MET:HE3	2.29	0.48
1:M:150:SER:CB	1:N:94:GLN:NE2	2.71	0.48
1:O:4:PRO:HD3	1:P:88:PRO:C	2.33	0.48
1:G:134:LYS:NZ	1:L:10:VAL:HG22	2.28	0.48
1:J:13:ALA:H	1:N:67:TRP:HB2	1.53	0.48
1:M:128:GLY:CA	1:R:50:LEU:CD2	2.78	0.48
1:O:50:LEU:CD2	1:P:129:LYS:H	2.26	0.48
1:A:114:ASN:CA	1:B:135:GLU:HG3	2.43	0.48
1:A:129:LYS:C	1:F:49:GLU:HA	2.39	0.48
1:D:4:PRO:HB3	1:E:87:MET:C	2.39	0.48
1:M:8:MET:CE	1:N:134:LYS:HB2	2.35	0.48
1:M:134:LYS:NZ	1:R:10:VAL:HG22	2.28	0.48
1:E:3:VAL:CB	1:F:88:PRO:HG2	2.43	0.48
1:G:135:GLU:HG2	1:L:9:PRO:HD2	1.96	0.48
1:C:13:ALA:H	1:G:68:THR:HA	1.12	0.48
1:J:3:VAL:HB	1:K:88:PRO:HG2	1.95	0.48
1:K:12:GLY:CA	1:O:68:THR:CG2	2.72	0.48
1:K:13:ALA:CB	1:O:65:ALA:C	2.75	0.48
1:M:134:LYS:HB3	1:R:8:MET:HA	1.94	0.48
1:M:152:ALA:CB	1:N:38:ARG:NH2	2.45	0.48
1:P:3:VAL:HB	1:Q:88:PRO:HG2	1.95	0.48
1:P:4:PRO:HB3	1:Q:87:MET:C	2.39	0.48
1:B:113:PRO:HB3	1:L:66:ASP:OD2	2.12	0.48
1:C:114:ASN:HB3	1:D:135:GLU:CB	2.43	0.48
1:E:12:GLY:C	1:I:66:ASP:HB2	2.24	0.48
1:C:4:PRO:HD3	1:D:88:PRO:C	2.33	0.48
1:H:151:MET:CA	1:I:91:GLN:HG2	2.20	0.48
1:L:113:PRO:HB3	1:P:66:ASP:OD2	2.14	0.48
1:L:153:GLU:HB2	1:L:154:ASP:HA	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:152:ALA:HB2	1:R:91:GLN:HB3	1.76	0.48
1:A:114:ASN:HB3	1:B:135:GLU:CB	2.30	0.48
1:F:13:ALA:HB2	1:J:65:ALA:C	2.36	0.48
1:M:135:GLU:HG2	1:R:9:PRO:HD2	1.96	0.48
1:R:153:GLU:HB2	1:R:154:ASP:HA	1.96	0.48
1:A:153:GLU:HB2	1:A:154:ASP:HA	1.96	0.47
1:F:153:GLU:HB2	1:F:154:ASP:HA	1.96	0.47
1:K:15:THR:O	1:O:67:TRP:NE1	2.43	0.47
1:G:13:ALA:CA	1:Q:68:THR:CA	2.70	0.47
1:G:74:GLN:OE1	1:L:63:GLU:OE2	2.32	0.47
1:J:4:PRO:HB3	1:K:87:MET:C	2.39	0.47
1:P:148:ARG:NH2	1:Q:97:LEU:CD2	2.76	0.47
1:Q:153:GLU:HB2	1:Q:154:ASP:HA	1.96	0.47
1:B:150:SER:C	1:C:94:GLN:NE2	2.71	0.47
1:D:152:ALA:CB	1:E:91:GLN:O	2.62	0.47
1:E:12:GLY:CA	1:I:68:THR:CG2	2.73	0.47
1:E:15:THR:O	1:I:67:TRP:NE1	2.44	0.47
1:G:3:VAL:HB	1:H:88:PRO:HG2	1.96	0.47
1:K:153:GLU:HB2	1:K:154:ASP:HA	1.96	0.47
1:L:12:GLY:CA	1:P:68:THR:CG2	2.74	0.47
1:M:74:GLN:OE1	1:R:63:GLU:OE2	2.32	0.47
1:P:153:GLU:HB2	1:P:154:ASP:HA	1.96	0.47
1:C:152:ALA:N	1:D:91:GLN:CB	2.76	0.47
1:E:50:LEU:CD2	1:F:128:GLY:CA	2.80	0.47
1:H:15:THR:O	1:R:67:TRP:HZ2	1.96	0.47
1:J:153:GLU:HB2	1:J:154:ASP:HA	1.96	0.47
1:A:50:LEU:CB	1:B:129:LYS:CA	2.81	0.47
1:I:8:MET:HB2	1:N:72:GLN:HE21	1.79	0.47
1:K:113:PRO:HB3	1:O:66:ASP:OD2	2.15	0.47
1:M:50:LEU:CD2	1:N:129:LYS:H	2.27	0.47
1:E:153:GLU:HB2	1:E:154:ASP:HA	1.96	0.47
1:G:153:GLU:HB2	1:G:154:ASP:HA	1.96	0.47
1:K:17:LEU:HA	1:K:18:TRP:HB2	1.97	0.47
1:A:100:PHE:HE2	1:F:54:SER:H	1.63	0.47
1:B:153:GLU:HB2	1:B:154:ASP:HA	1.96	0.47
1:D:5:ASN:O	1:E:87:MET:HE1	2.12	0.47
1:E:17:LEU:HA	1:E:18:TRP:HB2	1.97	0.47
1:F:12:GLY:C	1:J:68:THR:HG1	2.08	0.47
1:G:50:LEU:CD2	1:H:129:LYS:H	2.27	0.47
1:G:88:PRO:HB2	1:L:3:VAL:HB	1.96	0.47
1:G:152:ALA:HB2	1:H:91:GLN:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:150:SER:C	1:I:94:GLN:NE2	2.71	0.47
1:I:3:VAL:HB	1:J:88:PRO:HG2	1.97	0.47
1:I:50:LEU:CD2	1:J:128:GLY:CA	2.76	0.47
1:J:148:ARG:HG3	1:K:93:GLN:NE2	2.20	0.47
1:J:152:ALA:CB	1:K:91:GLN:O	2.62	0.47
1:M:49:GLU:OE1	1:N:131:VAL:CG2	2.26	0.47
1:M:129:LYS:C	1:R:49:GLU:HA	2.40	0.47
1:O:153:GLU:HB2	1:O:154:ASP:HA	1.96	0.47
1:P:17:LEU:HA	1:P:18:TRP:HB2	1.97	0.47
1:C:8:MET:O	1:H:72:GLN:NE2	2.48	0.47
1:G:4:PRO:HB2	1:H:87:MET:HB3	1.96	0.47
1:H:113:PRO:HB3	1:R:66:ASP:OD2	2.14	0.47
1:H:153:GLU:HB2	1:H:154:ASP:HA	1.96	0.47
1:J:17:LEU:HA	1:J:18:TRP:HB2	1.97	0.47
1:K:152:ALA:HB2	1:L:91:GLN:O	2.14	0.47
1:M:89:GLY:N	1:R:4:PRO:CB	2.72	0.47
1:O:3:VAL:HB	1:P:88:PRO:HG2	1.97	0.47
1:P:152:ALA:CB	1:Q:91:GLN:O	2.62	0.47
1:Q:17:LEU:HA	1:Q:18:TRP:HB2	1.97	0.47
1:A:51:THR:HG23	1:B:139:ARG:HD2	1.96	0.47
1:A:113:PRO:HB3	1:K:66:ASP:OD2	2.15	0.47
1:C:3:VAL:HB	1:D:88:PRO:HG2	1.97	0.47
1:D:153:GLU:HB2	1:D:154:ASP:HA	1.96	0.47
1:F:17:LEU:HA	1:F:18:TRP:HB2	1.97	0.47
1:G:89:GLY:N	1:L:4:PRO:CB	2.72	0.47
1:H:4:PRO:HB2	1:I:87:MET:HB3	1.97	0.47
1:I:4:PRO:HD3	1:J:88:PRO:C	2.33	0.47
1:M:3:VAL:HB	1:N:88:PRO:HG2	1.96	0.47
1:O:17:LEU:HA	1:O:18:TRP:HB2	1.97	0.47
1:B:4:PRO:HB2	1:C:87:MET:HB3	1.97	0.47
1:D:17:LEU:HA	1:D:18:TRP:HB2	1.97	0.47
1:L:17:LEU:HA	1:L:18:TRP:HB2	1.97	0.47
1:A:17:LEU:HA	1:A:18:TRP:HB2	1.97	0.46
1:A:54:SER:CB	1:B:127:ILE:HG22	2.37	0.46
1:C:153:GLU:HB2	1:C:154:ASP:HA	1.96	0.46
1:I:17:LEU:HA	1:I:18:TRP:HB2	1.97	0.46
1:I:153:GLU:HB2	1:I:154:ASP:HA	1.96	0.46
1:M:88:PRO:HB2	1:R:3:VAL:HB	1.96	0.46
1:M:153:GLU:HB2	1:M:154:ASP:HA	1.96	0.46
1:A:9:PRO:CD	1:B:135:GLU:OE1	2.63	0.46
1:A:49:GLU:CG	1:B:131:VAL:HG23	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:150:SER:CB	1:B:94:GLN:NE2	2.71	0.46
1:K:50:LEU:CD2	1:L:128:GLY:CA	2.80	0.46
1:N:150:SER:C	1:O:94:GLN:NE2	2.71	0.46
1:R:17:LEU:HA	1:R:18:TRP:HB2	1.97	0.46
1:A:129:LYS:NZ	1:F:48:GLY:CA	2.75	0.46
1:E:60:LEU:HD21	1:F:76:SER:CB	2.44	0.46
1:L:15:THR:O	1:P:67:TRP:HZ2	1.93	0.46
1:N:17:LEU:HA	1:N:18:TRP:HB2	1.97	0.46
1:N:153:GLU:HB2	1:N:154:ASP:HA	1.96	0.46
1:B:17:LEU:HA	1:B:18:TRP:HB2	1.97	0.46
1:E:152:ALA:HB2	1:F:91:GLN:O	2.14	0.46
1:F:113:PRO:HB3	1:J:66:ASP:OD2	2.15	0.46
1:G:127:ILE:CG2	1:L:54:SER:HB2	2.42	0.46
1:N:50:LEU:CD2	1:O:128:GLY:CA	2.79	0.46
1:A:8:MET:HE2	1:B:134:LYS:O	2.14	0.46
1:A:134:LYS:CD	1:F:8:MET:CB	2.54	0.46
1:C:17:LEU:HA	1:C:18:TRP:HB2	1.97	0.46
1:D:148:ARG:NH2	1:E:97:LEU:CD2	2.76	0.46
1:G:17:LEU:HA	1:G:18:TRP:HB2	1.97	0.46
1:G:49:GLU:N	1:H:130:ALA:O	2.49	0.46
1:G:129:LYS:C	1:L:49:GLU:HA	2.40	0.46
1:G:150:SER:CB	1:H:94:GLN:NE2	2.71	0.46
1:M:152:ALA:HB2	1:N:91:GLN:O	2.15	0.46
1:O:59:TYR:CD1	1:P:123:TRP:CD1	2.94	0.46
1:A:91:GLN:HB3	1:F:152:ALA:HB2	1.87	0.46
1:H:17:LEU:HA	1:H:18:TRP:HB2	1.97	0.46
1:J:148:ARG:NH2	1:K:97:LEU:CD2	2.76	0.46
1:M:52:ALA:HB2	1:N:127:ILE:C	2.40	0.46
1:A:56:ASP:OD1	1:B:123:TRP:CD1	2.67	0.46
1:A:74:GLN:HE22	1:F:63:GLU:HG2	1.81	0.46
1:E:150:SER:C	1:F:94:GLN:NE2	2.73	0.46
1:H:4:PRO:HB3	1:I:87:MET:C	2.41	0.46
1:H:148:ARG:CZ	1:I:97:LEU:HD11	2.44	0.46
1:J:15:THR:O	1:N:67:TRP:HZ2	1.98	0.46
1:M:17:LEU:HA	1:M:18:TRP:HB2	1.97	0.46
1:N:4:PRO:HB3	1:O:87:MET:C	2.41	0.46
1:C:4:PRO:CA	1:D:87:MET:HE3	2.30	0.46
1:G:132:THR:O	1:L:11:LYS:NZ	2.47	0.46
1:Q:152:ALA:HB2	1:R:91:GLN:O	2.14	0.46
1:A:3:VAL:HB	1:B:88:PRO:HG2	1.96	0.46
1:D:114:ASN:HB3	1:E:135:GLU:CB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:8:MET:HB2	1:R:72:GLN:HE21	1.81	0.46
1:G:12:GLY:CA	1:Q:67:TRP:CZ3	2.99	0.46
1:G:88:PRO:HG2	1:L:3:VAL:CB	2.44	0.46
1:I:59:TYR:CD1	1:J:123:TRP:CD1	2.94	0.46
1:J:150:SER:C	1:K:94:GLN:NE2	2.72	0.46
1:M:132:THR:O	1:R:11:LYS:NZ	2.47	0.46
1:N:4:PRO:HB2	1:O:87:MET:HB3	1.97	0.46
1:O:3:VAL:HG12	1:P:88:PRO:CG	2.38	0.46
1:A:152:ALA:HB2	1:B:91:GLN:O	2.16	0.46
1:L:12:GLY:C	1:P:68:THR:HG1	2.07	0.46
1:P:114:ASN:HB3	1:Q:135:GLU:CB	2.46	0.46
1:Q:155:ARG:NE	1:R:91:GLN:CD	2.74	0.46
1:K:8:MET:HB2	1:P:72:GLN:HE21	1.81	0.45
1:K:152:ALA:HB2	1:L:91:GLN:HB3	1.76	0.45
1:M:49:GLU:N	1:N:130:ALA:O	2.49	0.45
1:N:8:MET:HE2	1:O:134:LYS:CB	2.21	0.45
1:P:150:SER:C	1:Q:94:GLN:NE2	2.72	0.45
1:Q:4:PRO:CB	1:R:89:GLY:HA3	2.27	0.45
1:A:8:MET:HB2	1:L:72:GLN:HE21	1.82	0.45
1:A:49:GLU:OE1	1:B:131:VAL:CG2	2.26	0.45
1:A:74:GLN:OE1	1:F:63:GLU:OE2	2.35	0.45
1:D:13:ALA:CB	1:H:65:ALA:C	2.77	0.45
1:Q:150:SER:C	1:R:94:GLN:NE2	2.73	0.45
1:A:134:LYS:NZ	1:F:10:VAL:HG22	2.31	0.45
1:B:15:THR:O	1:L:67:TRP:HZ2	1.95	0.45
1:D:8:MET:HA	1:E:134:LYS:CB	2.46	0.45
1:J:13:ALA:CB	1:N:65:ALA:C	2.79	0.45
1:Q:60:LEU:HD21	1:R:76:SER:CB	2.44	0.45
1:B:152:ALA:HB2	1:C:91:GLN:HB3	1.77	0.45
1:E:152:ALA:HA	1:F:91:GLN:HB2	1.97	0.45
1:G:50:LEU:N	1:H:129:LYS:C	2.72	0.45
1:G:56:ASP:O	1:H:123:TRP:HB3	2.16	0.45
1:G:151:MET:C	1:H:91:GLN:HB3	2.41	0.45
1:G:152:ALA:CB	1:H:91:GLN:CB	2.47	0.45
1:H:155:ARG:NE	1:I:91:GLN:CD	2.74	0.45
1:L:8:MET:O	1:Q:72:GLN:NE2	2.49	0.45
1:N:152:ALA:N	1:O:91:GLN:CB	2.80	0.45
1:A:13:ALA:HB1	1:K:65:ALA:C	2.36	0.45
1:A:123:TRP:CE2	1:F:56:ASP:OD1	2.69	0.45
1:F:12:GLY:HA3	1:J:68:THR:CB	2.45	0.45
1:K:60:LEU:HD21	1:L:76:SER:CB	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:152:ALA:CB	1:O:91:GLN:CB	2.43	0.45
1:B:113:PRO:CB	1:L:66:ASP:CG	2.82	0.45
1:I:8:MET:CG	1:J:134:LYS:CD	2.68	0.45
1:J:114:ASN:HB3	1:K:135:GLU:CB	2.46	0.45
1:B:4:PRO:HB3	1:C:87:MET:C	2.41	0.45
1:C:152:ALA:CB	1:D:91:GLN:O	2.65	0.45
1:D:15:THR:O	1:H:67:TRP:HZ2	1.94	0.45
1:G:135:GLU:HG3	1:L:114:ASN:HA	1.99	0.45
1:J:8:MET:HA	1:K:134:LYS:CB	2.46	0.45
1:M:127:ILE:CG2	1:R:54:SER:HB2	2.42	0.45
1:P:152:ALA:CB	1:Q:91:GLN:CB	2.49	0.45
1:G:52:ALA:HB2	1:H:127:ILE:C	2.40	0.45
1:H:50:LEU:CD2	1:I:128:GLY:CA	2.79	0.45
1:I:60:LEU:HD21	1:J:76:SER:CB	2.47	0.45
1:M:56:ASP:O	1:N:123:TRP:HB3	2.17	0.45
1:I:4:PRO:HB3	1:J:87:MET:C	2.42	0.45
1:I:152:ALA:CB	1:J:91:GLN:O	2.65	0.45
1:L:13:ALA:CB	1:P:65:ALA:C	2.82	0.45
1:M:135:GLU:HG3	1:R:114:ASN:HA	1.98	0.45
1:B:50:LEU:CD2	1:C:128:GLY:CA	2.79	0.44
1:C:60:LEU:HD21	1:D:76:SER:CB	2.47	0.44
1:M:88:PRO:HG2	1:R:3:VAL:CB	2.44	0.44
1:N:150:SER:OG	1:O:94:GLN:OE1	2.35	0.44
1:N:155:ARG:NE	1:O:91:GLN:CD	2.74	0.44
1:L:12:GLY:HA3	1:P:68:THR:CB	2.46	0.44
1:B:152:ALA:N	1:C:91:GLN:CB	2.80	0.44
1:G:48:GLY:CA	1:H:129:LYS:NZ	2.78	0.44
1:H:114:ASN:HB3	1:I:135:GLU:CB	2.48	0.44
1:A:48:GLY:CA	1:B:129:LYS:NZ	2.73	0.44
1:E:59:TYR:CD1	1:F:123:TRP:CD1	2.95	0.44
1:E:148:ARG:CZ	1:F:97:LEU:HD11	2.47	0.44
1:F:13:ALA:CB	1:J:65:ALA:C	2.82	0.44
1:G:135:GLU:CD	1:L:114:ASN:HA	2.43	0.44
1:M:91:GLN:CB	1:R:152:ALA:CA	2.94	0.44
1:E:155:ARG:NE	1:F:91:GLN:CD	2.74	0.44
1:G:100:PHE:HE2	1:L:54:SER:H	1.66	0.44
1:L:13:ALA:HB2	1:P:65:ALA:C	2.37	0.44
1:C:12:GLY:HA3	1:G:68:THR:HG21	1.85	0.44
1:D:13:ALA:H	1:H:67:TRP:HB2	1.56	0.44
1:E:4:PRO:HB3	1:F:87:MET:C	2.43	0.44
1:H:152:ALA:N	1:I:91:GLN:CB	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:148:ARG:CZ	1:O:97:LEU:HD11	2.44	0.44
1:P:8:MET:HA	1:Q:134:LYS:CB	2.46	0.44
1:A:47:PRO:CA	1:B:132:THR:O	2.66	0.44
1:A:87:MET:HB3	1:F:4:PRO:CB	2.47	0.44
1:B:148:ARG:CZ	1:C:97:LEU:HD11	2.44	0.44
1:C:4:PRO:HB3	1:D:87:MET:C	2.42	0.44
1:C:48:GLY:HA3	1:D:129:LYS:HZ1	1.81	0.44
1:H:13:ALA:H	1:R:67:TRP:HB2	1.55	0.44
1:O:60:LEU:HD21	1:P:76:SER:CB	2.47	0.44
1:O:152:ALA:CB	1:P:91:GLN:O	2.65	0.44
1:O:155:ARG:HE	1:P:91:GLN:CD	2.25	0.44
1:B:150:SER:OG	1:C:94:GLN:OE1	2.35	0.44
1:C:155:ARG:HE	1:D:91:GLN:CD	2.25	0.44
1:G:91:GLN:O	1:L:152:ALA:HB2	2.17	0.44
1:E:8:MET:HB2	1:J:72:GLN:HE21	1.83	0.44
1:E:114:ASN:HB3	1:F:135:GLU:CB	2.48	0.44
1:I:3:VAL:HG12	1:J:88:PRO:CG	2.38	0.44
1:I:13:ALA:H	1:M:68:THR:HA	1.13	0.44
1:O:4:PRO:HB3	1:P:87:MET:C	2.42	0.44
1:O:150:SER:C	1:P:94:GLN:HE22	2.26	0.44
1:A:134:LYS:CE	1:F:8:MET:HB3	2.43	0.43
1:B:13:ALA:HB1	1:L:65:ALA:O	2.18	0.43
1:F:15:THR:O	1:J:67:TRP:NE1	2.50	0.43
1:G:76:SER:CB	1:L:60:LEU:HD21	2.48	0.43
1:M:4:PRO:HD3	1:N:88:PRO:C	2.35	0.43
1:M:100:PHE:HE2	1:R:54:SER:H	1.65	0.43
1:M:114:ASN:HA	1:N:135:GLU:HG3	2.00	0.43
1:M:127:ILE:HD12	1:M:127:ILE:HA	1.94	0.43
1:Q:4:PRO:HB2	1:R:87:MET:HB3	2.00	0.43
1:A:49:GLU:HA	1:B:130:ALA:CA	2.48	0.43
1:F:8:MET:O	1:K:72:GLN:NE2	2.51	0.43
1:F:12:GLY:CA	1:J:68:THR:CG2	2.76	0.43
1:I:155:ARG:HE	1:J:91:GLN:CD	2.25	0.43
1:K:4:PRO:HB3	1:L:87:MET:C	2.43	0.43
1:O:50:LEU:CB	1:P:129:LYS:CA	2.91	0.43
1:A:88:PRO:C	1:F:4:PRO:HD3	2.27	0.43
1:A:131:VAL:HG22	1:F:49:GLU:CD	2.21	0.43
1:A:150:SER:OG	1:B:94:GLN:OE1	2.36	0.43
1:I:150:SER:C	1:J:94:GLN:HE22	2.26	0.43
1:M:4:PRO:HB2	1:N:87:MET:HB3	1.96	0.43
1:M:135:GLU:CG	1:R:114:ASN:CB	2.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:135:GLU:CD	1:R:114:ASN:HA	2.43	0.43
1:O:152:ALA:CA	1:P:91:GLN:CG	2.96	0.43
1:A:128:GLY:CA	1:F:50:LEU:CD2	2.85	0.43
1:B:114:ASN:HB3	1:C:135:GLU:CB	2.48	0.43
1:B:155:ARG:NE	1:C:91:GLN:CD	2.74	0.43
1:H:150:SER:OG	1:I:94:GLN:OE1	2.35	0.43
1:J:113:PRO:CB	1:N:66:ASP:CG	2.80	0.43
1:K:155:ARG:NE	1:L:91:GLN:CD	2.74	0.43
1:M:76:SER:CB	1:R:60:LEU:HD21	2.48	0.43
1:M:91:GLN:O	1:R:152:ALA:HB2	2.17	0.43
1:M:97:LEU:CD2	1:R:148:ARG:NH2	2.81	0.43
1:G:54:SER:CB	1:H:127:ILE:HG22	2.38	0.43
1:G:114:ASN:HA	1:H:135:GLU:HG3	2.00	0.43
1:H:50:LEU:CD2	1:I:129:LYS:H	2.32	0.43
1:I:50:LEU:CB	1:J:129:LYS:CA	2.91	0.43
1:I:152:ALA:CA	1:J:91:GLN:CG	2.96	0.43
1:D:8:MET:HE1	1:E:134:LYS:CB	2.43	0.43
1:E:8:MET:CE	1:F:134:LYS:HB2	2.31	0.43
1:I:8:MET:O	1:N:72:GLN:NE2	2.51	0.43
1:M:130:ALA:O	1:R:49:GLU:N	2.51	0.43
1:Q:114:ASN:HB3	1:R:135:GLU:CB	2.48	0.43
1:A:10:VAL:CG2	1:B:134:LYS:HE3	2.41	0.43
1:C:59:TYR:CD1	1:D:123:TRP:CD1	2.94	0.43
1:G:130:ALA:O	1:L:49:GLU:N	2.51	0.43
1:K:54:SER:CB	1:L:127:ILE:HG22	2.42	0.43
1:N:114:ASN:HB3	1:O:135:GLU:CB	2.48	0.43
1:P:50:LEU:CD2	1:Q:129:LYS:H	2.32	0.43
1:Q:50:LEU:CD2	1:R:129:LYS:H	2.32	0.43
1:G:13:ALA:HB1	1:Q:65:ALA:C	2.43	0.43
1:K:50:LEU:CD2	1:L:129:LYS:H	2.32	0.43
1:O:54:SER:CB	1:P:127:ILE:HG22	2.40	0.43
1:G:4:PRO:HD3	1:H:88:PRO:C	2.35	0.43
1:J:50:LEU:CD2	1:K:129:LYS:H	2.32	0.43
1:J:152:ALA:HB2	1:K:91:GLN:C	2.44	0.43
1:K:114:ASN:HB3	1:L:135:GLU:CB	2.48	0.43
1:N:59:TYR:CD1	1:O:123:TRP:CD1	2.97	0.43
1:A:8:MET:CE	1:B:134:LYS:HB2	2.42	0.43
1:D:4:PRO:CA	1:E:87:MET:HE3	2.29	0.43
1:E:54:SER:HB2	1:F:127:ILE:CG2	2.41	0.43
1:I:13:ALA:CA	1:M:68:THR:CA	2.71	0.43
1:I:152:ALA:N	1:J:91:GLN:CG	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:148:ARG:HH21	1:K:97:LEU:HD22	1.82	0.43
1:O:150:SER:C	1:P:94:GLN:NE2	2.75	0.43
1:Q:4:PRO:HB3	1:R:87:MET:C	2.43	0.43
1:C:150:SER:C	1:D:94:GLN:HE22	2.26	0.42
1:G:13:ALA:H	1:Q:68:THR:HA	1.04	0.42
1:H:113:PRO:CB	1:R:66:ASP:CG	2.82	0.42
1:I:127:ILE:HD12	1:I:127:ILE:HA	1.94	0.42
1:O:152:ALA:CB	1:P:38:ARG:NH2	2.51	0.42
1:P:148:ARG:HG3	1:Q:93:GLN:NE2	2.20	0.42
1:D:50:LEU:CD2	1:E:129:LYS:H	2.32	0.42
1:E:50:LEU:CD2	1:F:129:LYS:H	2.32	0.42
1:H:54:SER:HB2	1:I:127:ILE:CG2	2.43	0.42
1:I:50:LEU:HD22	1:J:129:LYS:H	1.84	0.42
1:I:152:ALA:HB2	1:J:91:GLN:C	2.44	0.42
1:N:3:VAL:HB	1:O:88:PRO:HG2	2.02	0.42
1:Q:152:ALA:N	1:R:91:GLN:CB	2.82	0.42
1:B:3:VAL:HB	1:C:88:PRO:HG2	2.02	0.42
1:B:50:LEU:CD2	1:C:129:LYS:H	2.32	0.42
1:C:3:VAL:HG12	1:D:88:PRO:CG	2.38	0.42
1:E:4:PRO:HB2	1:F:87:MET:HB3	1.99	0.42
1:H:3:VAL:HB	1:I:88:PRO:HG2	2.02	0.42
1:J:8:MET:HE1	1:K:134:LYS:CB	2.43	0.42
1:J:148:ARG:CZ	1:K:97:LEU:HD11	2.46	0.42
1:K:148:ARG:CZ	1:L:97:LEU:HD11	2.47	0.42
1:B:155:ARG:NE	1:C:91:GLN:OE1	2.53	0.42
1:E:13:ALA:H	1:I:67:TRP:HB2	1.61	0.42
1:E:13:ALA:HB1	1:I:65:ALA:O	2.20	0.42
1:G:150:SER:OG	1:H:94:GLN:OE1	2.37	0.42
1:H:13:ALA:HB1	1:R:65:ALA:O	2.19	0.42
1:M:48:GLY:CA	1:N:129:LYS:NZ	2.78	0.42
1:N:155:ARG:NE	1:O:91:GLN:OE1	2.53	0.42
1:P:5:ASN:O	1:Q:87:MET:HE1	2.12	0.42
1:A:12:GLY:CA	1:K:67:TRP:CZ3	3.02	0.42
1:B:63:GLU:HG2	1:C:74:GLN:HE22	1.85	0.42
1:C:150:SER:HG	1:D:94:GLN:NE2	1.99	0.42
1:D:113:PRO:CB	1:H:66:ASP:CG	2.83	0.42
1:E:114:ASN:CA	1:F:135:GLU:CD	2.78	0.42
1:G:94:GLN:NE2	1:L:150:SER:C	2.70	0.42
1:H:152:ALA:CB	1:I:91:GLN:O	2.67	0.42
1:K:4:PRO:HB2	1:L:87:MET:HB3	2.00	0.42
1:O:56:ASP:O	1:P:123:TRP:HB3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:88:PRO:HG2	1:F:3:VAL:CB	2.47	0.42
1:A:151:MET:C	1:B:91:GLN:HB3	2.43	0.42
1:B:54:SER:HB2	1:C:127:ILE:CG2	2.43	0.42
1:D:152:ALA:HB2	1:E:91:GLN:C	2.44	0.42
1:E:54:SER:CB	1:F:127:ILE:HG22	2.42	0.42
1:G:97:LEU:CD2	1:L:148:ARG:NH2	2.81	0.42
1:G:152:ALA:N	1:H:91:GLN:CB	2.83	0.42
1:M:114:ASN:CA	1:N:135:GLU:HG3	2.50	0.42
1:N:152:ALA:CB	1:O:91:GLN:O	2.67	0.42
1:C:50:LEU:HD22	1:D:129:LYS:H	1.84	0.42
1:C:56:ASP:O	1:D:123:TRP:HB3	2.20	0.42
1:E:4:PRO:CB	1:F:89:GLY:HA3	2.27	0.42
1:E:113:PRO:HB3	1:I:66:ASP:OD2	2.18	0.42
1:K:150:SER:C	1:L:94:GLN:NE2	2.73	0.42
1:M:56:ASP:OD1	1:N:123:TRP:CD1	2.72	0.42
1:M:152:ALA:N	1:N:91:GLN:CB	2.83	0.42
1:N:50:LEU:CD2	1:O:129:LYS:H	2.32	0.42
1:N:152:ALA:CA	1:O:91:GLN:CG	2.98	0.42
1:C:50:LEU:CB	1:D:129:LYS:CA	2.91	0.42
1:C:152:ALA:HB2	1:D:91:GLN:C	2.44	0.42
1:G:97:LEU:HD22	1:L:148:ARG:HH21	1.85	0.42
1:N:63:GLU:HG2	1:O:74:GLN:HE22	1.85	0.42
1:N:148:ARG:NH2	1:O:97:LEU:CD2	2.82	0.42
1:Q:54:SER:CB	1:R:127:ILE:HG22	2.42	0.42
1:B:63:GLU:OE2	1:C:74:GLN:OE1	2.38	0.42
1:B:152:ALA:CB	1:C:91:GLN:O	2.67	0.42
1:C:152:ALA:CA	1:D:91:GLN:CG	2.96	0.42
1:H:148:ARG:NH2	1:I:97:LEU:CD2	2.82	0.42
1:B:148:ARG:NH2	1:C:97:LEU:CD2	2.82	0.42
1:H:63:GLU:HG2	1:I:74:GLN:HE22	1.85	0.42
1:M:50:LEU:CB	1:N:129:LYS:CA	2.86	0.42
1:M:150:SER:OG	1:N:94:GLN:OE1	2.37	0.42
1:N:63:GLU:OE2	1:O:74:GLN:OE1	2.38	0.42
1:P:152:ALA:HB2	1:Q:91:GLN:C	2.44	0.42
1:D:4:PRO:CA	1:E:87:MET:HB3	2.50	0.41
1:E:152:ALA:N	1:F:91:GLN:CB	2.82	0.41
1:G:114:ASN:CA	1:H:135:GLU:HG3	2.50	0.41
1:M:151:MET:C	1:N:91:GLN:HB3	2.41	0.41
1:N:56:ASP:O	1:O:123:TRP:HB3	2.20	0.41
1:O:152:ALA:HB2	1:P:91:GLN:HB3	1.82	0.41
1:B:4:PRO:CA	1:C:87:MET:HE3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:127:ILE:C	1:L:52:ALA:HB2	2.44	0.41
1:I:13:ALA:CA	1:M:68:THR:HA	2.43	0.41
1:J:4:PRO:CA	1:K:87:MET:HB3	2.50	0.41
1:K:8:MET:O	1:P:72:GLN:NE2	2.53	0.41
1:K:152:ALA:CA	1:L:91:GLN:CG	2.98	0.41
1:M:50:LEU:N	1:N:129:LYS:C	2.72	0.41
1:M:51:THR:HG23	1:N:139:ARG:HD2	2.01	0.41
1:N:33:ASP:CG	1:N:109:LYS:HZ1	2.28	0.41
1:A:97:LEU:CD2	1:F:148:ARG:NH2	2.83	0.41
1:C:148:ARG:CZ	1:D:97:LEU:HD11	2.48	0.41
1:D:63:GLU:OE2	1:E:74:GLN:OE1	2.38	0.41
1:G:10:VAL:CG2	1:H:134:LYS:HE3	2.47	0.41
1:G:56:ASP:OD1	1:H:123:TRP:CD1	2.72	0.41
1:G:91:GLN:CB	1:L:152:ALA:CB	2.66	0.41
1:I:54:SER:CB	1:J:127:ILE:HG22	2.40	0.41
1:L:13:ALA:CB	1:P:68:THR:OG1	2.67	0.41
1:A:49:GLU:HA	1:B:129:LYS:C	2.45	0.41
1:A:87:MET:C	1:F:4:PRO:HB3	2.45	0.41
1:A:91:GLN:CB	1:F:152:ALA:CA	2.93	0.41
1:B:56:ASP:O	1:C:123:TRP:HB3	2.20	0.41
1:C:150:SER:C	1:D:94:GLN:NE2	2.75	0.41
1:D:13:ALA:HB1	1:H:65:ALA:O	2.20	0.41
1:H:12:GLY:HA3	1:R:68:THR:OG1	2.12	0.41
1:I:47:PRO:CA	1:J:132:THR:O	2.69	0.41
1:J:63:GLU:OE2	1:K:74:GLN:OE1	2.38	0.41
1:M:48:GLY:HA3	1:N:129:LYS:HZ1	1.81	0.41
1:M:87:MET:HE1	1:R:5:ASN:O	2.05	0.41
1:O:47:PRO:CA	1:P:132:THR:O	2.69	0.41
1:P:148:ARG:HH21	1:Q:97:LEU:HD22	1.82	0.41
1:A:87:MET:SD	1:F:5:ASN:O	2.78	0.41
1:A:91:GLN:CB	1:F:152:ALA:CB	2.64	0.41
1:B:152:ALA:CA	1:C:91:GLN:CG	2.98	0.41
1:B:152:ALA:HA	1:C:91:GLN:HB2	1.95	0.41
1:E:152:ALA:CA	1:F:91:GLN:CG	2.98	0.41
1:G:4:PRO:HB3	1:H:87:MET:C	2.46	0.41
1:G:8:MET:HA	1:H:134:LYS:CB	2.48	0.41
1:G:50:LEU:CB	1:H:129:LYS:CA	2.86	0.41
1:G:51:THR:HG23	1:H:139:ARG:HD2	2.01	0.41
1:H:56:ASP:O	1:I:123:TRP:HB3	2.20	0.41
1:I:56:ASP:O	1:J:123:TRP:HB3	2.20	0.41
1:G:48:GLY:HA3	1:H:129:LYS:HZ1	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:63:GLU:OE2	1:I:74:GLN:OE1	2.38	0.41
1:H:155:ARG:NE	1:I:91:GLN:OE1	2.53	0.41
1:L:15:THR:O	1:P:67:TRP:NE1	2.49	0.41
1:O:4:PRO:CA	1:P:87:MET:HE3	2.30	0.41
1:Q:56:ASP:O	1:R:123:TRP:HB3	2.21	0.41
1:G:87:MET:HE1	1:L:5:ASN:O	2.05	0.41
1:H:152:ALA:HB2	1:I:91:GLN:C	2.46	0.41
1:I:148:ARG:HG3	1:J:93:GLN:NE2	2.27	0.41
1:I:152:ALA:CB	1:J:38:ARG:NH2	2.51	0.41
1:K:54:SER:HB2	1:L:127:ILE:CG2	2.41	0.41
1:K:155:ARG:NE	1:L:91:GLN:OE1	2.54	0.41
1:O:50:LEU:HD22	1:P:129:LYS:H	1.84	0.41
1:A:4:PRO:HB2	1:B:87:MET:HB3	1.99	0.41
1:A:50:LEU:HD22	1:B:129:LYS:H	1.85	0.41
1:A:91:GLN:O	1:F:152:ALA:HB2	2.21	0.41
1:G:87:MET:C	1:L:4:PRO:HB3	2.45	0.41
1:K:56:ASP:O	1:L:123:TRP:HB3	2.21	0.41
1:M:54:SER:CB	1:N:127:ILE:HG22	2.38	0.41
1:O:152:ALA:HB2	1:P:91:GLN:C	2.44	0.41
1:P:10:VAL:HG22	1:Q:134:LYS:HZ2	1.84	0.41
1:P:63:GLU:OE2	1:Q:74:GLN:OE1	2.38	0.41
1:Q:8:MET:CG	1:R:134:LYS:CD	2.67	0.41
1:A:87:MET:HE3	1:F:5:ASN:H	1.72	0.41
1:B:13:ALA:H	1:L:67:TRP:HB2	1.56	0.41
1:E:155:ARG:NE	1:F:91:GLN:OE1	2.54	0.41
1:I:151:MET:O	1:J:91:GLN:NE2	2.44	0.41
1:K:13:ALA:HB1	1:O:65:ALA:O	2.21	0.41
1:K:152:ALA:N	1:L:91:GLN:CB	2.82	0.41
1:M:4:PRO:HB3	1:N:87:MET:C	2.46	0.41
1:M:8:MET:HA	1:N:134:LYS:CB	2.48	0.41
1:P:4:PRO:CA	1:Q:87:MET:HB3	2.50	0.41
1:P:4:PRO:CA	1:Q:87:MET:HE3	2.29	0.41
1:Q:155:ARG:NE	1:R:91:GLN:OE1	2.54	0.41
1:A:8:MET:CG	1:B:134:LYS:CD	2.78	0.41
1:A:123:TRP:CD1	1:F:59:TYR:CD1	2.95	0.41
1:A:127:ILE:C	1:F:52:ALA:HB2	2.45	0.41
1:I:12:GLY:CA	1:M:67:TRP:CZ3	3.04	0.41
1:K:8:MET:CG	1:L:134:LYS:CD	2.67	0.41
1:M:87:MET:C	1:R:4:PRO:HB3	2.45	0.41
1:Q:152:ALA:CA	1:R:91:GLN:CG	2.98	0.41
1:B:152:ALA:HB2	1:C:91:GLN:C	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:155:ARG:HE	1:E:91:GLN:CD	2.29	0.40
1:F:8:MET:HB2	1:K:72:GLN:HE21	1.86	0.40
1:G:134:LYS:CE	1:L:8:MET:HB3	2.43	0.40
1:I:148:ARG:CZ	1:J:97:LEU:HD11	2.47	0.40
1:J:63:GLU:HG2	1:K:74:GLN:HE22	1.87	0.40
1:J:155:ARG:HE	1:K:91:GLN:CD	2.29	0.40
1:L:8:MET:HB2	1:Q:72:GLN:HE21	1.86	0.40
1:A:4:PRO:HD3	1:B:88:PRO:C	2.36	0.40
1:E:56:ASP:O	1:F:123:TRP:HB3	2.21	0.40
1:H:56:ASP:O	1:I:123:TRP:CB	2.69	0.40
1:K:148:ARG:NH2	1:L:97:LEU:CD2	2.85	0.40
1:M:4:PRO:CA	1:N:87:MET:HB3	2.52	0.40
1:C:5:ASN:O	1:D:87:MET:HE1	2.16	0.40
1:G:4:PRO:CA	1:H:87:MET:HB3	2.52	0.40
1:H:127:ILE:HD12	1:H:127:ILE:HA	1.94	0.40
1:H:152:ALA:CA	1:I:91:GLN:CG	2.98	0.40
1:N:8:MET:HA	1:O:134:LYS:CB	2.52	0.40
1:A:135:GLU:CD	1:F:114:ASN:HA	2.47	0.40
1:B:56:ASP:O	1:C:123:TRP:CB	2.69	0.40
1:C:8:MET:HE2	1:D:134:LYS:CB	2.21	0.40
1:D:44:ASP:CG	1:D:45:LEU:H	2.30	0.40
1:E:50:LEU:CB	1:F:129:LYS:CA	2.96	0.40
1:E:63:GLU:OE2	1:F:74:GLN:OE1	2.39	0.40
1:E:148:ARG:NH2	1:F:97:LEU:CD2	2.85	0.40
1:G:49:GLU:CG	1:H:131:VAL:HG23	2.30	0.40
1:G:129:LYS:C	1:L:50:LEU:N	2.77	0.40
1:J:5:ASN:O	1:K:87:MET:HE1	2.12	0.40
1:L:44:ASP:CG	1:L:45:LEU:H	2.30	0.40
1:Q:148:ARG:CZ	1:R:97:LEU:HD11	2.47	0.40
1:G:44:ASP:CG	1:G:45:LEU:H	2.30	0.40
1:H:8:MET:HE2	1:I:134:LYS:CB	2.22	0.40
1:H:8:MET:HA	1:I:134:LYS:CB	2.52	0.40
1:K:44:ASP:CG	1:K:45:LEU:H	2.30	0.40
1:K:130:ALA:HB3	1:K:137:ILE:HG22	2.04	0.40
1:L:130:ALA:HB3	1:L:137:ILE:HG22	2.04	0.40
1:M:60:LEU:HD12	1:M:60:LEU:HA	2.01	0.40
1:Q:130:ALA:HB3	1:Q:137:ILE:HG22	2.04	0.40
1:Q:150:SER:OG	1:R:94:GLN:OE1	2.37	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	B	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	C	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	D	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	E	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	F	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	G	244/246 (99%)	180 (74%)	37 (15%)	27 (11%)	0	6
1	H	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	I	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	J	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	K	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	L	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	M	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	N	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	O	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	P	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	Q	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
1	R	244/246 (99%)	180 (74%)	38 (16%)	26 (11%)	0	6
All	All	4392/4428 (99%)	3240 (74%)	683 (16%)	469 (11%)	1	6

All (469) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	40	ALA
1	A	55	TYR
1	A	74	GLN
1	A	149	PRO

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Mol	Chain	Res	Type
1	A	153	GLU
1	A	159	THR
1	B	40	ALA
1	B	55	TYR
1	B	74	GLN
1	B	149	PRO
1	B	153	GLU
1	B	159	THR
1	C	40	ALA
1	C	55	TYR
1	C	74	GLN
1	C	149	PRO
1	C	153	GLU
1	C	159	THR
1	D	40	ALA
1	D	55	TYR
1	D	74	GLN
1	D	149	PRO
1	D	153	GLU
1	D	159	THR
1	E	40	ALA
1	E	55	TYR
1	E	74	GLN
1	E	149	PRO
1	E	153	GLU
1	E	159	THR
1	F	40	ALA
1	F	55	TYR
1	F	74	GLN
1	F	149	PRO
1	F	153	GLU
1	F	159	THR
1	G	40	ALA
1	G	55	TYR
1	G	74	GLN
1	G	149	PRO
1	G	153	GLU
1	G	159	THR
1	H	40	ALA
1	H	55	TYR
1	H	74	GLN
1	H	149	PRO

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Mol	Chain	Res	Type
1	H	153	GLU
1	H	159	THR
1	I	40	ALA
1	I	55	TYR
1	I	74	GLN
1	I	149	PRO
1	I	153	GLU
1	I	159	THR
1	J	40	ALA
1	J	55	TYR
1	J	74	GLN
1	J	149	PRO
1	J	153	GLU
1	J	159	THR
1	K	40	ALA
1	K	55	TYR
1	K	74	GLN
1	K	149	PRO
1	K	153	GLU
1	K	159	THR
1	L	40	ALA
1	L	55	TYR
1	L	74	GLN
1	L	149	PRO
1	L	153	GLU
1	L	159	THR
1	M	40	ALA
1	M	55	TYR
1	M	74	GLN
1	M	149	PRO
1	M	153	GLU
1	M	159	THR
1	N	40	ALA
1	N	55	TYR
1	N	74	GLN
1	N	149	PRO
1	N	153	GLU
1	N	159	THR
1	O	40	ALA
1	O	55	TYR
1	O	74	GLN
1	O	149	PRO

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Mol	Chain	Res	Type
1	O	153	GLU
1	O	159	THR
1	P	40	ALA
1	P	55	TYR
1	P	74	GLN
1	P	149	PRO
1	P	153	GLU
1	P	159	THR
1	Q	40	ALA
1	Q	55	TYR
1	Q	74	GLN
1	Q	149	PRO
1	Q	153	GLU
1	Q	159	THR
1	R	40	ALA
1	R	55	TYR
1	R	74	GLN
1	R	149	PRO
1	R	153	GLU
1	R	159	THR
1	A	10	VAL
1	A	18	TRP
1	A	36	TRP
1	A	64	ASP
1	A	126	SER
1	A	145	ASN
1	A	187	PRO
1	B	10	VAL
1	B	18	TRP
1	B	36	TRP
1	B	64	ASP
1	B	126	SER
1	B	145	ASN
1	B	187	PRO
1	C	10	VAL
1	C	18	TRP
1	C	36	TRP
1	C	64	ASP
1	C	126	SER
1	C	145	ASN
1	C	187	PRO
1	D	10	VAL

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Mol	Chain	Res	Type
1	D	18	TRP
1	D	36	TRP
1	D	64	ASP
1	D	126	SER
1	D	145	ASN
1	D	187	PRO
1	E	10	VAL
1	E	18	TRP
1	E	36	TRP
1	E	64	ASP
1	E	126	SER
1	E	145	ASN
1	E	187	PRO
1	F	10	VAL
1	F	18	TRP
1	F	36	TRP
1	F	64	ASP
1	F	126	SER
1	F	145	ASN
1	F	187	PRO
1	G	10	VAL
1	G	18	TRP
1	G	36	TRP
1	G	64	ASP
1	G	126	SER
1	G	145	ASN
1	G	187	PRO
1	H	10	VAL
1	H	18	TRP
1	H	36	TRP
1	H	64	ASP
1	H	126	SER
1	H	145	ASN
1	H	187	PRO
1	I	10	VAL
1	I	18	TRP
1	I	36	TRP
1	I	64	ASP
1	I	126	SER
1	I	145	ASN
1	I	187	PRO
1	J	10	VAL

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Mol	Chain	Res	Type
1	J	18	TRP
1	J	36	TRP
1	J	64	ASP
1	J	126	SER
1	J	145	ASN
1	J	187	PRO
1	K	10	VAL
1	K	18	TRP
1	K	36	TRP
1	K	64	ASP
1	K	126	SER
1	K	145	ASN
1	K	187	PRO
1	L	10	VAL
1	L	18	TRP
1	L	36	TRP
1	L	64	ASP
1	L	126	SER
1	L	145	ASN
1	L	187	PRO
1	M	10	VAL
1	M	18	TRP
1	M	36	TRP
1	M	64	ASP
1	M	126	SER
1	M	145	ASN
1	M	187	PRO
1	N	10	VAL
1	N	18	TRP
1	N	36	TRP
1	N	64	ASP
1	N	126	SER
1	N	145	ASN
1	N	187	PRO
1	O	10	VAL
1	O	18	TRP
1	O	36	TRP
1	O	64	ASP
1	O	126	SER
1	O	145	ASN
1	O	187	PRO
1	P	10	VAL

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Mol	Chain	Res	Type
1	P	18	TRP
1	P	36	TRP
1	P	64	ASP
1	P	126	SER
1	P	145	ASN
1	P	187	PRO
1	Q	10	VAL
1	Q	18	TRP
1	Q	36	TRP
1	Q	64	ASP
1	Q	126	SER
1	Q	145	ASN
1	Q	187	PRO
1	R	10	VAL
1	R	18	TRP
1	R	36	TRP
1	R	64	ASP
1	R	126	SER
1	R	145	ASN
1	R	187	PRO
1	A	2	PRO
1	B	2	PRO
1	C	2	PRO
1	D	2	PRO
1	E	2	PRO
1	F	2	PRO
1	G	2	PRO
1	H	2	PRO
1	I	2	PRO
1	J	2	PRO
1	K	2	PRO
1	L	2	PRO
1	M	2	PRO
1	N	2	PRO
1	O	2	PRO
1	P	2	PRO
1	Q	2	PRO
1	R	2	PRO
1	A	6	PRO
1	A	13	ALA
1	A	49	GLU
1	A	53	GLU

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Mol	Chain	Res	Type
1	A	92	GLY
1	A	133	ALA
1	B	6	PRO
1	B	13	ALA
1	B	49	GLU
1	B	53	GLU
1	B	92	GLY
1	B	133	ALA
1	C	6	PRO
1	C	13	ALA
1	C	49	GLU
1	C	53	GLU
1	C	92	GLY
1	C	133	ALA
1	D	6	PRO
1	D	13	ALA
1	D	49	GLU
1	D	53	GLU
1	D	92	GLY
1	D	133	ALA
1	E	6	PRO
1	E	13	ALA
1	E	49	GLU
1	E	53	GLU
1	E	92	GLY
1	E	133	ALA
1	F	6	PRO
1	F	13	ALA
1	F	49	GLU
1	F	53	GLU
1	F	92	GLY
1	F	133	ALA
1	G	6	PRO
1	G	13	ALA
1	G	49	GLU
1	G	53	GLU
1	G	92	GLY
1	G	133	ALA
1	H	6	PRO
1	H	13	ALA
1	H	49	GLU
1	H	53	GLU

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Mol	Chain	Res	Type
1	H	92	GLY
1	H	133	ALA
1	I	6	PRO
1	I	13	ALA
1	I	49	GLU
1	I	53	GLU
1	I	92	GLY
1	I	133	ALA
1	J	6	PRO
1	J	13	ALA
1	J	49	GLU
1	J	53	GLU
1	J	92	GLY
1	J	133	ALA
1	K	6	PRO
1	K	13	ALA
1	K	49	GLU
1	K	53	GLU
1	K	92	GLY
1	K	133	ALA
1	L	6	PRO
1	L	13	ALA
1	L	49	GLU
1	L	53	GLU
1	L	92	GLY
1	L	133	ALA
1	M	6	PRO
1	M	13	ALA
1	M	49	GLU
1	M	53	GLU
1	M	92	GLY
1	M	133	ALA
1	N	6	PRO
1	N	13	ALA
1	N	49	GLU
1	N	53	GLU
1	N	92	GLY
1	N	133	ALA
1	O	6	PRO
1	O	13	ALA
1	O	49	GLU
1	O	53	GLU

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Mol	Chain	Res	Type
1	O	92	GLY
1	O	133	ALA
1	P	6	PRO
1	P	13	ALA
1	P	49	GLU
1	P	53	GLU
1	P	92	GLY
1	P	133	ALA
1	Q	6	PRO
1	Q	13	ALA
1	Q	49	GLU
1	Q	53	GLU
1	Q	92	GLY
1	Q	133	ALA
1	R	6	PRO
1	R	13	ALA
1	R	49	GLU
1	R	53	GLU
1	R	92	GLY
1	R	133	ALA
1	A	9	PRO
1	A	63	GLU
1	A	77	ALA
1	B	9	PRO
1	B	63	GLU
1	B	77	ALA
1	C	9	PRO
1	C	63	GLU
1	C	77	ALA
1	D	9	PRO
1	D	63	GLU
1	D	77	ALA
1	E	9	PRO
1	E	63	GLU
1	E	77	ALA
1	F	9	PRO
1	F	63	GLU
1	F	77	ALA
1	G	9	PRO
1	G	63	GLU
1	G	77	ALA
1	H	9	PRO

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Mol	Chain	Res	Type
1	H	63	GLU
1	H	77	ALA
1	I	9	PRO
1	I	63	GLU
1	I	77	ALA
1	J	9	PRO
1	J	63	GLU
1	J	77	ALA
1	K	9	PRO
1	K	63	GLU
1	K	77	ALA
1	L	9	PRO
1	L	63	GLU
1	L	77	ALA
1	M	9	PRO
1	M	63	GLU
1	M	77	ALA
1	N	9	PRO
1	N	63	GLU
1	N	77	ALA
1	O	9	PRO
1	O	63	GLU
1	O	77	ALA
1	P	9	PRO
1	P	63	GLU
1	P	77	ALA
1	Q	9	PRO
1	Q	63	GLU
1	Q	77	ALA
1	R	9	PRO
1	R	63	GLU
1	R	77	ALA
1	G	54	SER
1	A	78	GLY
1	B	78	GLY
1	C	78	GLY
1	D	78	GLY
1	F	78	GLY
1	G	78	GLY
1	H	78	GLY
1	I	78	GLY
1	J	78	GLY

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Mol	Chain	Res	Type
1	K	78	GLY
1	L	78	GLY
1	M	78	GLY
1	N	78	GLY
1	O	78	GLY
1	P	78	GLY
1	Q	78	GLY
1	R	78	GLY
1	E	78	GLY
1	A	117	VAL
1	B	117	VAL
1	C	117	VAL
1	C	124	VAL
1	D	117	VAL
1	E	117	VAL
1	F	117	VAL
1	G	117	VAL
1	H	117	VAL
1	I	117	VAL
1	J	117	VAL
1	K	117	VAL
1	L	117	VAL
1	L	124	VAL
1	M	117	VAL
1	N	117	VAL
1	O	117	VAL
1	P	117	VAL
1	Q	117	VAL
1	Q	124	VAL
1	R	117	VAL
1	A	124	VAL
1	B	124	VAL
1	D	124	VAL
1	E	124	VAL
1	F	124	VAL
1	G	124	VAL
1	H	124	VAL
1	I	124	VAL
1	J	124	VAL
1	K	124	VAL
1	M	124	VAL
1	N	124	VAL

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Mol	Chain	Res	Type
1	O	124	VAL
1	P	124	VAL
1	R	124	VAL

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	B	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	C	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	D	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	E	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	F	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	G	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	H	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	I	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	J	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	K	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	L	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	M	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	N	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	O	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	P	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	Q	196/196 (100%)	177 (90%)	19 (10%)	8	24
1	R	196/196 (100%)	177 (90%)	19 (10%)	8	24
All	All	3528/3528 (100%)	3186 (90%)	342 (10%)	10	24

All (342) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	ASN
1	A	10	VAL
1	A	15	THR
1	A	35	ASP
1	A	55	TYR
1	A	59	TYR
1	A	66	ASP
1	A	74	GLN
1	A	79	ASP
1	A	123	TRP
1	A	127	ILE
1	A	135	GLU
1	A	142	LYS
1	A	155	ARG
1	A	165	THR
1	A	192	ASP
1	A	193	LYS
1	A	232	ASN
1	A	242	THR
1	B	5	ASN
1	B	10	VAL
1	B	15	THR
1	B	35	ASP
1	B	55	TYR
1	B	59	TYR
1	B	66	ASP
1	B	74	GLN
1	B	79	ASP
1	B	123	TRP
1	B	127	ILE
1	B	135	GLU
1	B	142	LYS
1	B	155	ARG
1	B	165	THR
1	B	192	ASP
1	B	193	LYS
1	B	232	ASN
1	B	242	THR
1	C	5	ASN
1	C	10	VAL
1	C	15	THR
1	C	35	ASP
1	C	55	TYR

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Mol	Chain	Res	Type
1	C	59	TYR
1	C	66	ASP
1	C	74	GLN
1	C	79	ASP
1	C	123	TRP
1	C	127	ILE
1	C	135	GLU
1	C	142	LYS
1	C	155	ARG
1	C	165	THR
1	C	192	ASP
1	C	193	LYS
1	C	232	ASN
1	C	242	THR
1	D	5	ASN
1	D	10	VAL
1	D	15	THR
1	D	35	ASP
1	D	55	TYR
1	D	59	TYR
1	D	66	ASP
1	D	74	GLN
1	D	79	ASP
1	D	123	TRP
1	D	127	ILE
1	D	135	GLU
1	D	142	LYS
1	D	155	ARG
1	D	165	THR
1	D	192	ASP
1	D	193	LYS
1	D	232	ASN
1	D	242	THR
1	E	5	ASN
1	E	10	VAL
1	E	15	THR
1	E	35	ASP
1	E	55	TYR
1	E	59	TYR
1	E	66	ASP
1	E	74	GLN
1	E	79	ASP

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Mol	Chain	Res	Type
1	E	123	TRP
1	E	127	ILE
1	E	135	GLU
1	E	142	LYS
1	E	155	ARG
1	E	165	THR
1	E	192	ASP
1	E	193	LYS
1	E	232	ASN
1	E	242	THR
1	F	5	ASN
1	F	10	VAL
1	F	15	THR
1	F	35	ASP
1	F	55	TYR
1	F	59	TYR
1	F	66	ASP
1	F	74	GLN
1	F	79	ASP
1	F	123	TRP
1	F	127	ILE
1	F	135	GLU
1	F	142	LYS
1	F	155	ARG
1	F	165	THR
1	F	192	ASP
1	F	193	LYS
1	F	232	ASN
1	F	242	THR
1	G	5	ASN
1	G	10	VAL
1	G	15	THR
1	G	35	ASP
1	G	55	TYR
1	G	59	TYR
1	G	66	ASP
1	G	74	GLN
1	G	79	ASP
1	G	123	TRP
1	G	127	ILE
1	G	135	GLU
1	G	142	LYS

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Mol	Chain	Res	Type
1	G	155	ARG
1	G	165	THR
1	G	192	ASP
1	G	193	LYS
1	G	232	ASN
1	G	242	THR
1	H	5	ASN
1	H	10	VAL
1	H	15	THR
1	H	35	ASP
1	H	55	TYR
1	H	59	TYR
1	H	66	ASP
1	H	74	GLN
1	H	79	ASP
1	H	123	TRP
1	H	127	ILE
1	H	135	GLU
1	H	142	LYS
1	H	155	ARG
1	H	165	THR
1	H	192	ASP
1	H	193	LYS
1	H	232	ASN
1	H	242	THR
1	I	5	ASN
1	I	10	VAL
1	I	15	THR
1	I	35	ASP
1	I	55	TYR
1	I	59	TYR
1	I	66	ASP
1	I	74	GLN
1	I	79	ASP
1	I	123	TRP
1	I	127	ILE
1	I	135	GLU
1	I	142	LYS
1	I	155	ARG
1	I	165	THR
1	I	192	ASP
1	I	193	LYS

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Mol	Chain	Res	Type
1	I	232	ASN
1	I	242	THR
1	J	5	ASN
1	J	10	VAL
1	J	15	THR
1	J	35	ASP
1	J	55	TYR
1	J	59	TYR
1	J	66	ASP
1	J	74	GLN
1	J	79	ASP
1	J	123	TRP
1	J	127	ILE
1	J	135	GLU
1	J	142	LYS
1	J	155	ARG
1	J	165	THR
1	J	192	ASP
1	J	193	LYS
1	J	232	ASN
1	J	242	THR
1	K	5	ASN
1	K	10	VAL
1	K	15	THR
1	K	35	ASP
1	K	55	TYR
1	K	59	TYR
1	K	66	ASP
1	K	74	GLN
1	K	79	ASP
1	K	123	TRP
1	K	127	ILE
1	K	135	GLU
1	K	142	LYS
1	K	155	ARG
1	K	165	THR
1	K	192	ASP
1	K	193	LYS
1	K	232	ASN
1	K	242	THR
1	L	5	ASN
1	L	10	VAL

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Mol	Chain	Res	Type
1	L	15	THR
1	L	35	ASP
1	L	55	TYR
1	L	59	TYR
1	L	66	ASP
1	L	74	GLN
1	L	79	ASP
1	L	123	TRP
1	L	127	ILE
1	L	135	GLU
1	L	142	LYS
1	L	155	ARG
1	L	165	THR
1	L	192	ASP
1	L	193	LYS
1	L	232	ASN
1	L	242	THR
1	M	5	ASN
1	M	10	VAL
1	M	15	THR
1	M	35	ASP
1	M	55	TYR
1	M	59	TYR
1	M	66	ASP
1	M	74	GLN
1	M	79	ASP
1	M	123	TRP
1	M	127	ILE
1	M	135	GLU
1	M	142	LYS
1	M	155	ARG
1	M	165	THR
1	M	192	ASP
1	M	193	LYS
1	M	232	ASN
1	M	242	THR
1	N	5	ASN
1	N	10	VAL
1	N	15	THR
1	N	35	ASP
1	N	55	TYR
1	N	59	TYR

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Mol	Chain	Res	Type
1	N	66	ASP
1	N	74	GLN
1	N	79	ASP
1	N	123	TRP
1	N	127	ILE
1	N	135	GLU
1	N	142	LYS
1	N	155	ARG
1	N	165	THR
1	N	192	ASP
1	N	193	LYS
1	N	232	ASN
1	N	242	THR
1	O	5	ASN
1	O	10	VAL
1	O	15	THR
1	O	35	ASP
1	O	55	TYR
1	O	59	TYR
1	O	66	ASP
1	O	74	GLN
1	O	79	ASP
1	O	123	TRP
1	O	127	ILE
1	O	135	GLU
1	O	142	LYS
1	O	155	ARG
1	O	165	THR
1	O	192	ASP
1	O	193	LYS
1	O	232	ASN
1	O	242	THR
1	P	5	ASN
1	P	10	VAL
1	P	15	THR
1	P	35	ASP
1	P	55	TYR
1	P	59	TYR
1	P	66	ASP
1	P	74	GLN
1	P	79	ASP
1	P	123	TRP

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Mol	Chain	Res	Type
1	P	127	ILE
1	P	135	GLU
1	P	142	LYS
1	P	155	ARG
1	P	165	THR
1	P	192	ASP
1	P	193	LYS
1	P	232	ASN
1	P	242	THR
1	Q	5	ASN
1	Q	10	VAL
1	Q	15	THR
1	Q	35	ASP
1	Q	55	TYR
1	Q	59	TYR
1	Q	66	ASP
1	Q	74	GLN
1	Q	79	ASP
1	Q	123	TRP
1	Q	127	ILE
1	Q	135	GLU
1	Q	142	LYS
1	Q	155	ARG
1	Q	165	THR
1	Q	192	ASP
1	Q	193	LYS
1	Q	232	ASN
1	Q	242	THR
1	R	5	ASN
1	R	10	VAL
1	R	15	THR
1	R	35	ASP
1	R	55	TYR
1	R	59	TYR
1	R	66	ASP
1	R	74	GLN
1	R	79	ASP
1	R	123	TRP
1	R	127	ILE
1	R	135	GLU
1	R	142	LYS
1	R	155	ARG

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Mol	Chain	Res	Type
1	R	165	THR
1	R	192	ASP
1	R	193	LYS
1	R	232	ASN
1	R	242	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (57) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	91	GLN
1	A	93	GLN
1	B	93	GLN
1	C	74	GLN
1	C	91	GLN
1	C	93	GLN
1	D	91	GLN
1	D	93	GLN
1	D	94	GLN
1	E	74	GLN
1	E	93	GLN
1	F	74	GLN
1	F	91	GLN
1	F	93	GLN
1	G	72	GLN
1	G	74	GLN
1	G	91	GLN
1	G	93	GLN
1	H	72	GLN
1	H	93	GLN
1	I	72	GLN
1	I	74	GLN
1	I	91	GLN
1	I	93	GLN
1	J	72	GLN
1	J	91	GLN
1	J	93	GLN
1	J	94	GLN
1	K	72	GLN
1	K	74	GLN
1	K	93	GLN
1	L	72	GLN
1	L	74	GLN

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Mol	Chain	Res	Type
1	L	91	GLN
1	L	93	GLN
1	M	72	GLN
1	M	74	GLN
1	M	91	GLN
1	M	93	GLN
1	N	72	GLN
1	N	93	GLN
1	O	72	GLN
1	O	74	GLN
1	O	91	GLN
1	O	93	GLN
1	P	72	GLN
1	P	91	GLN
1	P	93	GLN
1	P	94	GLN
1	Q	72	GLN
1	Q	74	GLN
1	Q	91	GLN
1	Q	93	GLN
1	R	72	GLN
1	R	74	GLN
1	R	91	GLN
1	R	93	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

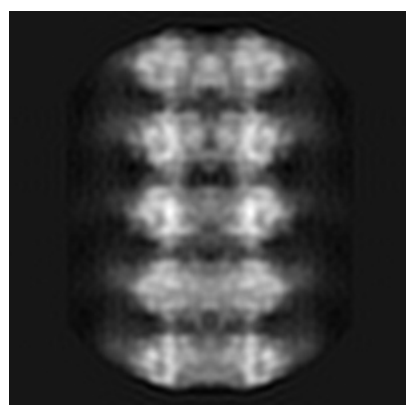
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-20241. These allow visual inspection of the internal detail of the map and identification of artifacts.

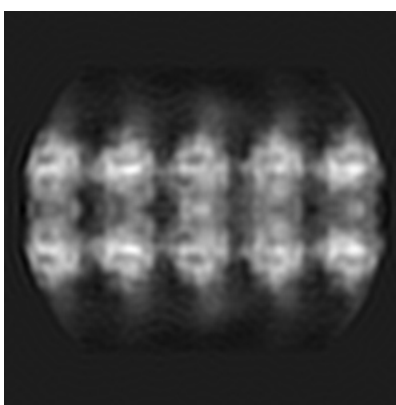
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

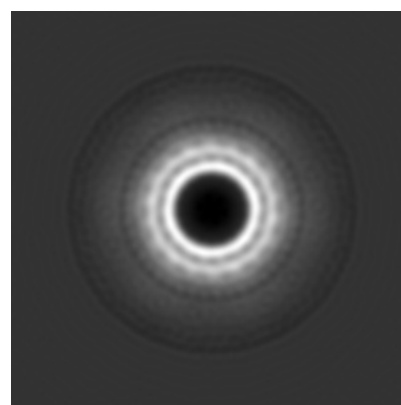
6.1.1 Primary map



X



Y

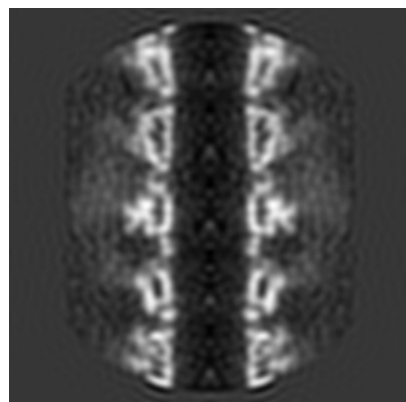


Z

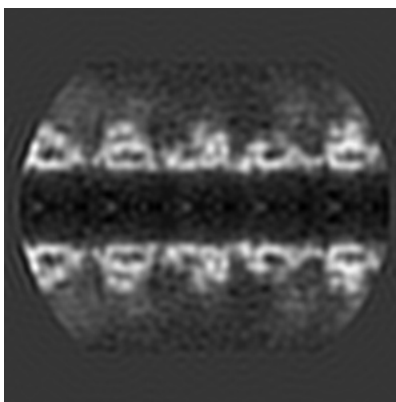
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

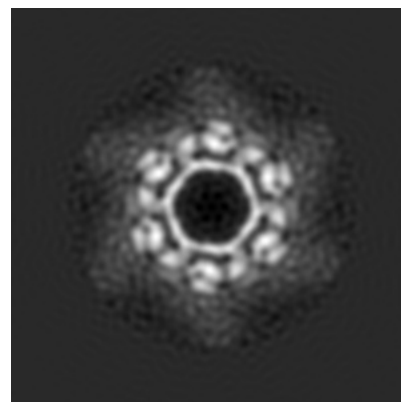
6.2.1 Primary map



X Index: 100



Y Index: 100

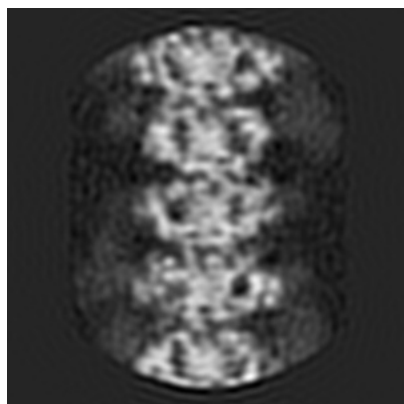


Z Index: 100

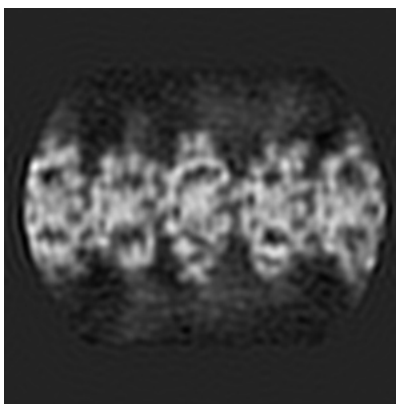
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

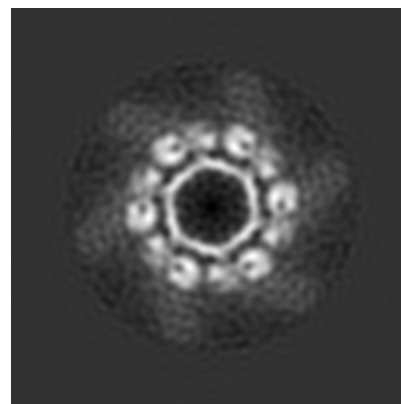
6.3.1 Primary map



X Index: 79



Y Index: 79

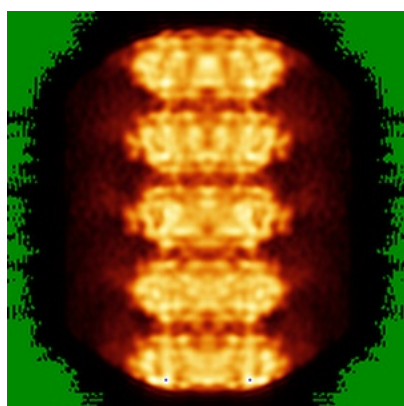


Z Index: 61

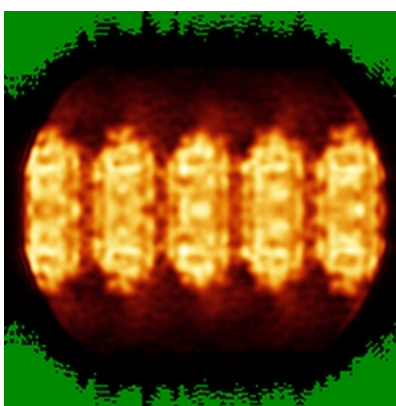
The images above show the largest variance slices of the map in three orthogonal directions.

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

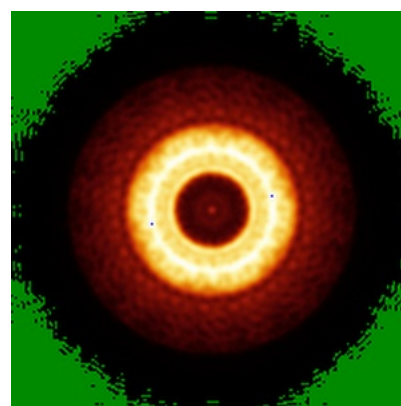
6.4.1 Primary map



X



Y

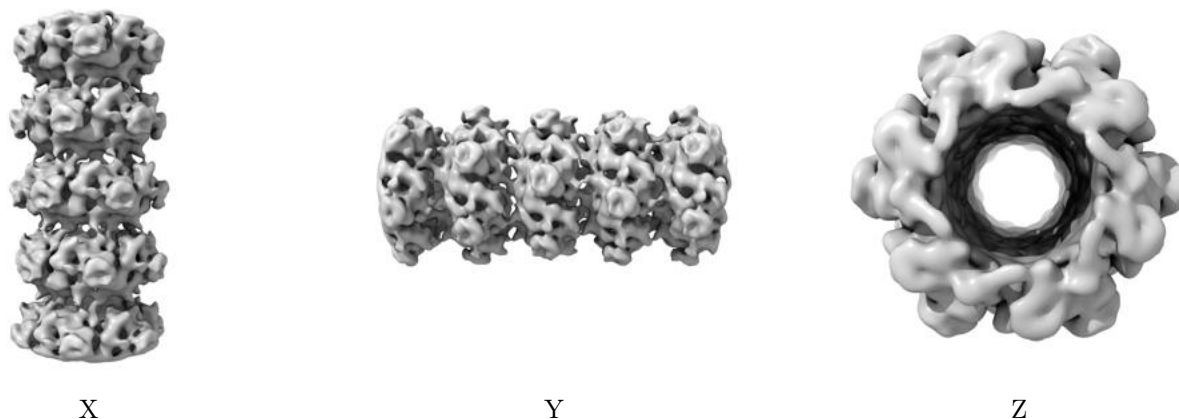


Z

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 0.05. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

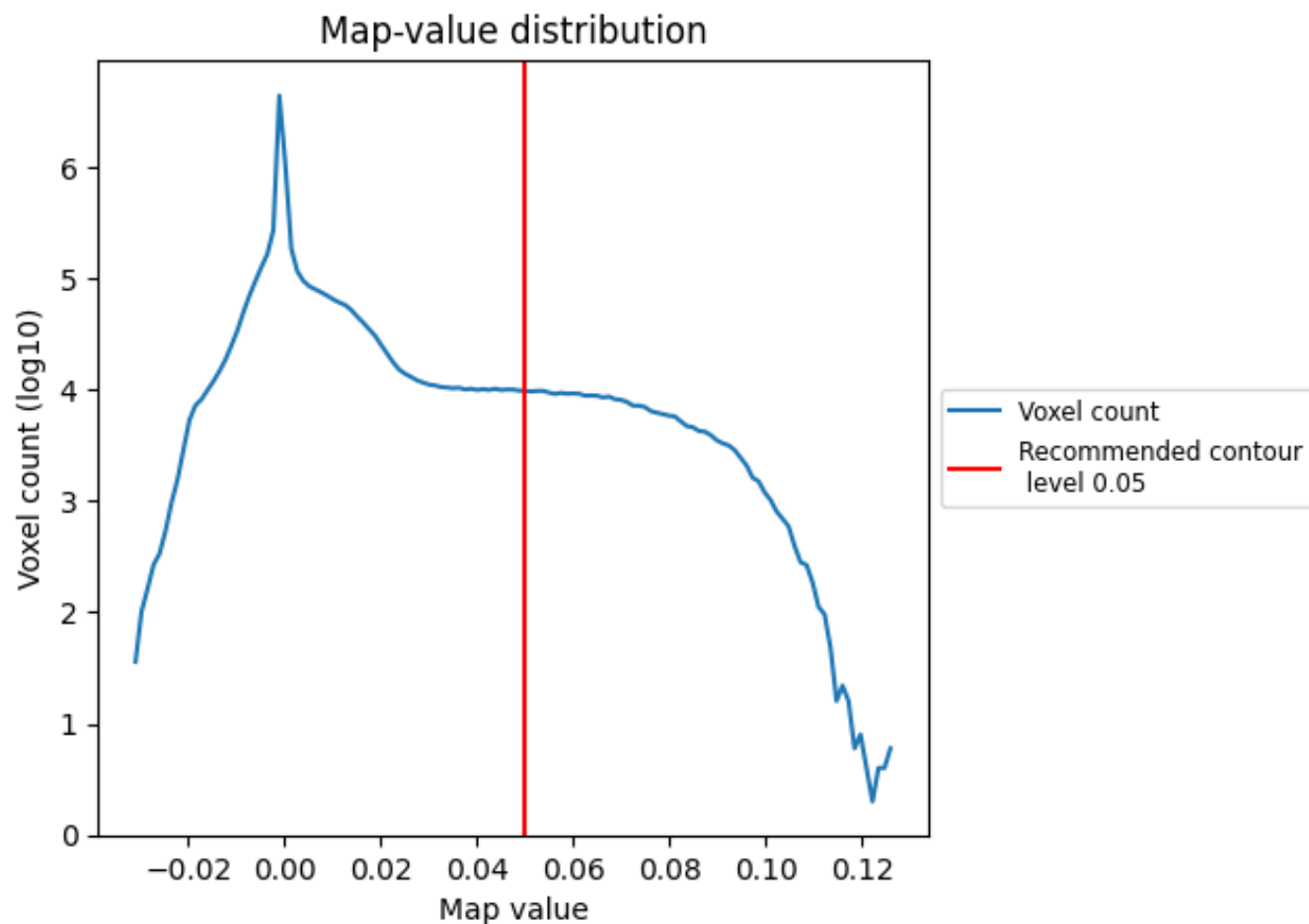
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

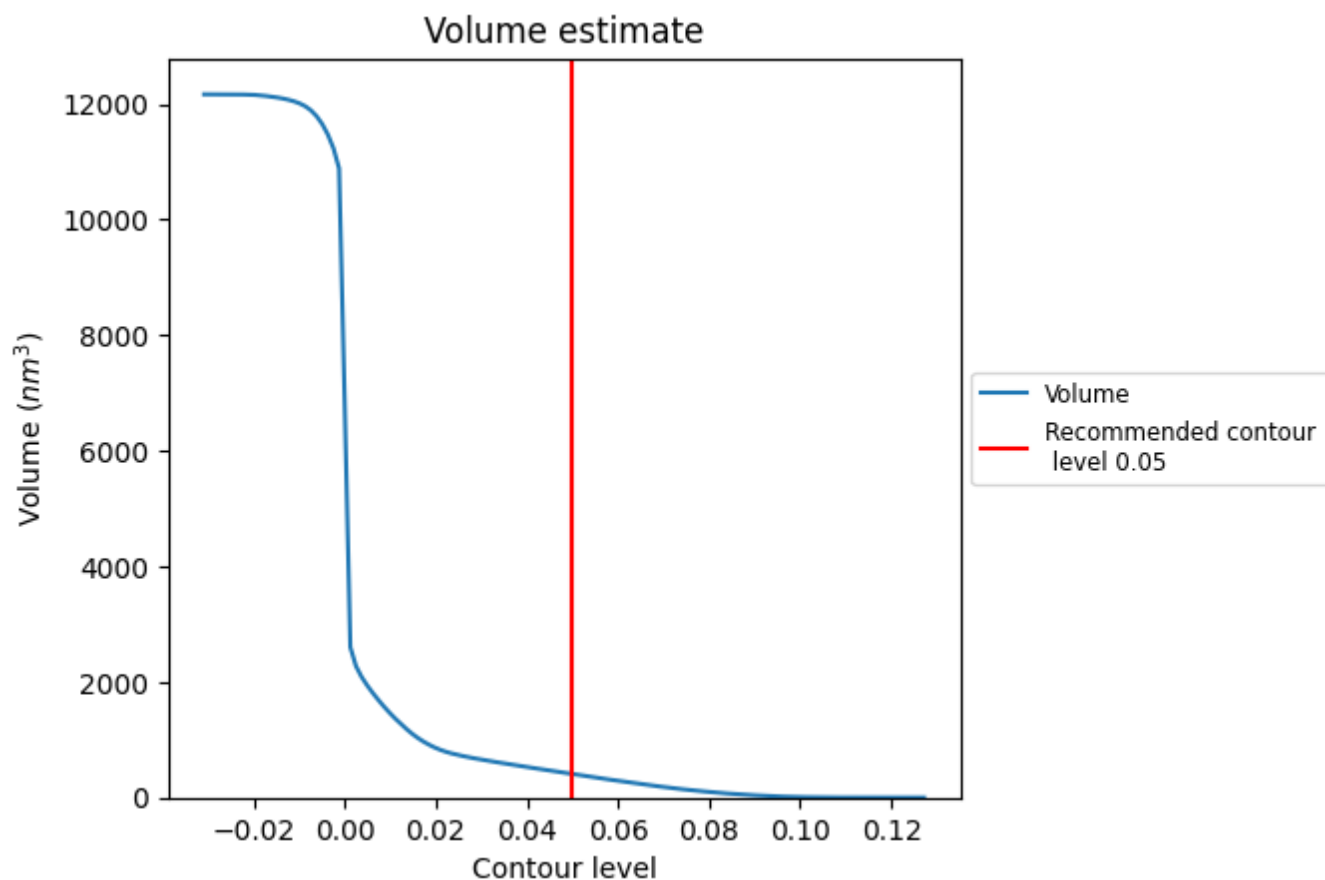
This section contains the results of statistical analysis of the map.

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.

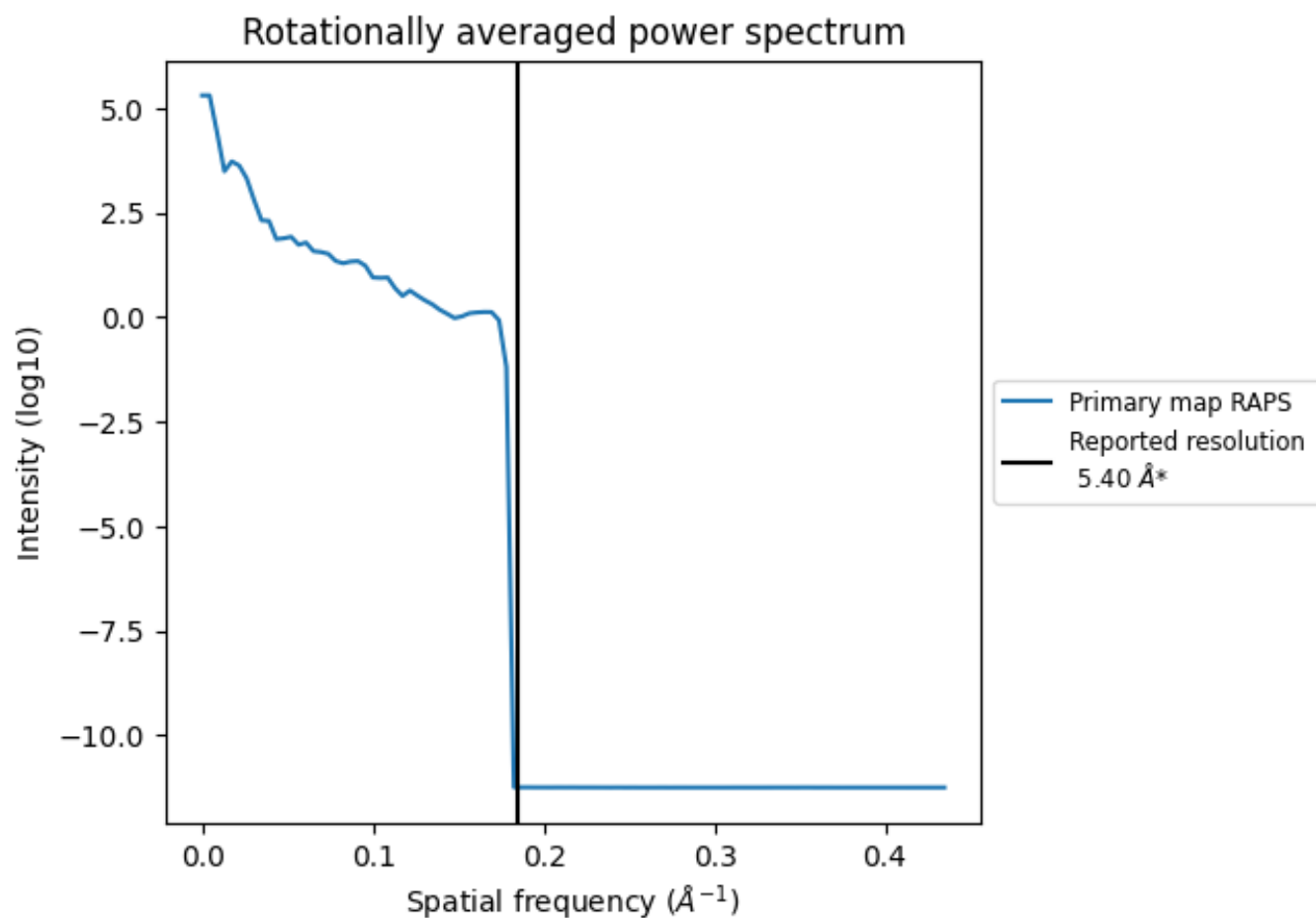
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 406 nm³; this corresponds to an approximate mass of 367 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 ⓘ

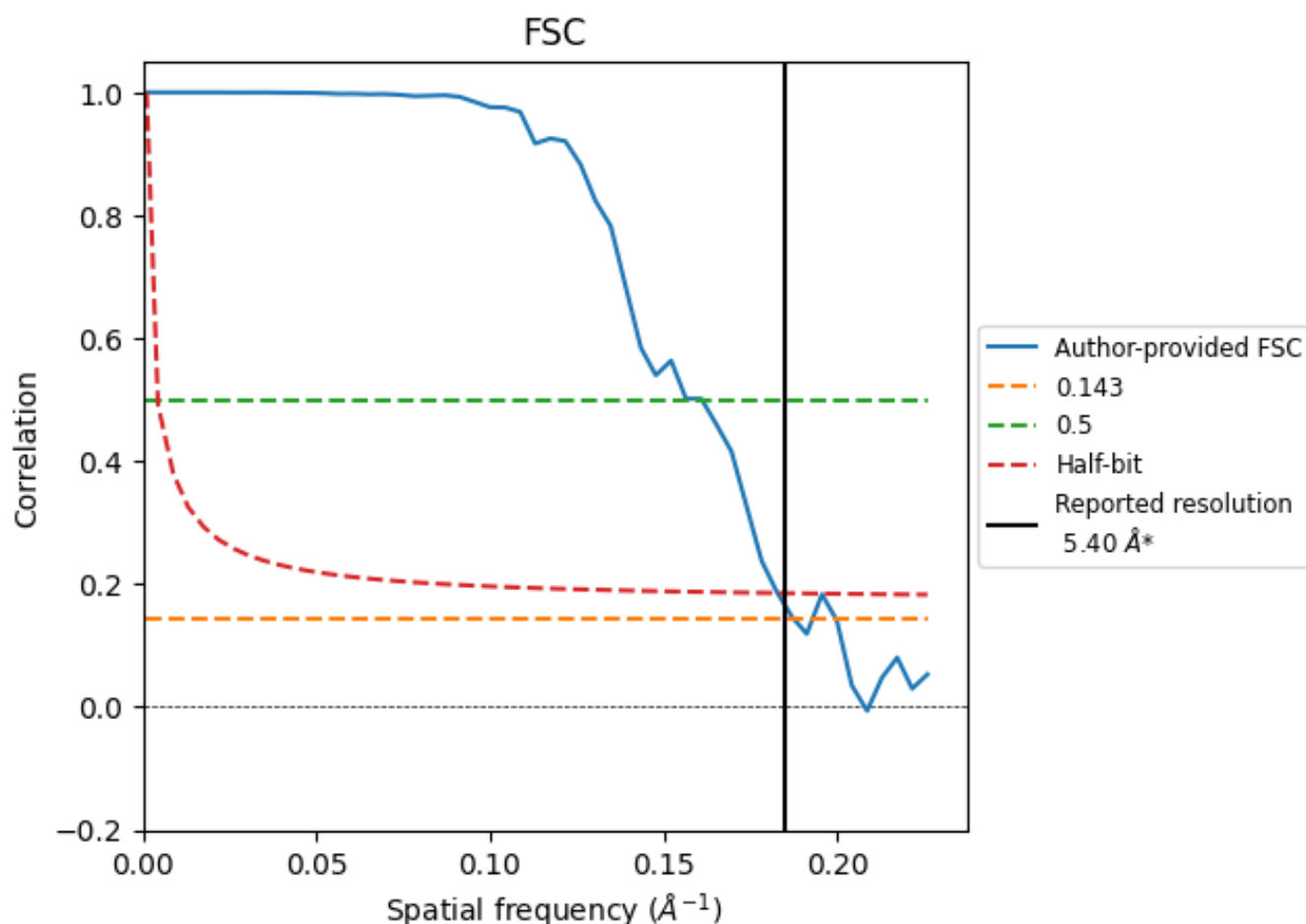


*Reported resolution corresponds to spatial frequency of 0.185 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.185 Å⁻¹

8.2 Resolution estimates [i](#)

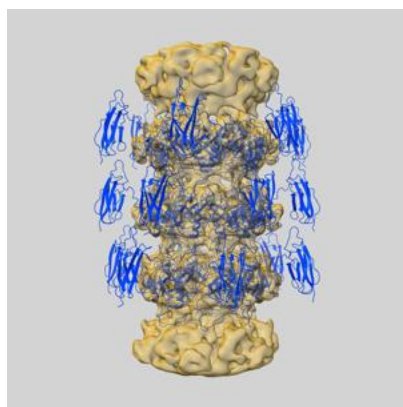
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	5.40	-	-
Author-provided FSC curve	5.33	6.21	5.47
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

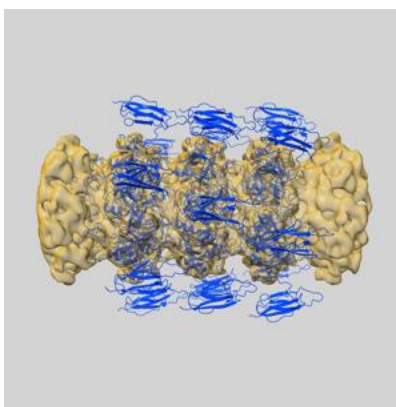
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-20241 and PDB model 6P3E. Per-residue inclusion information can be found in section [3](#) on page [6](#).

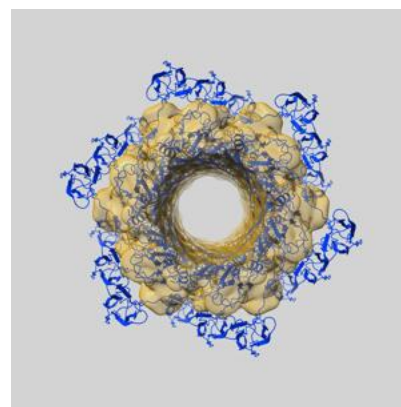
9.1 Map-model overlay [i](#)



X



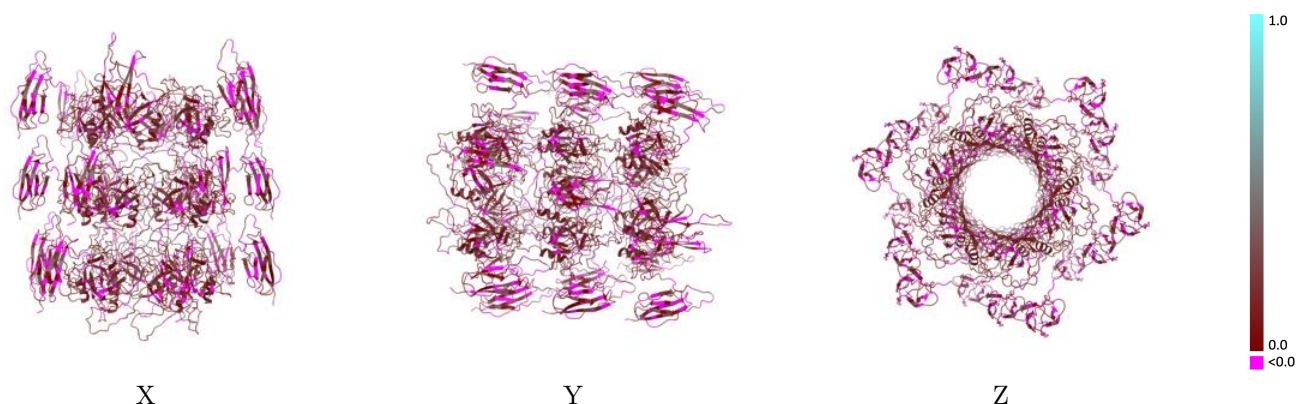
Y



Z

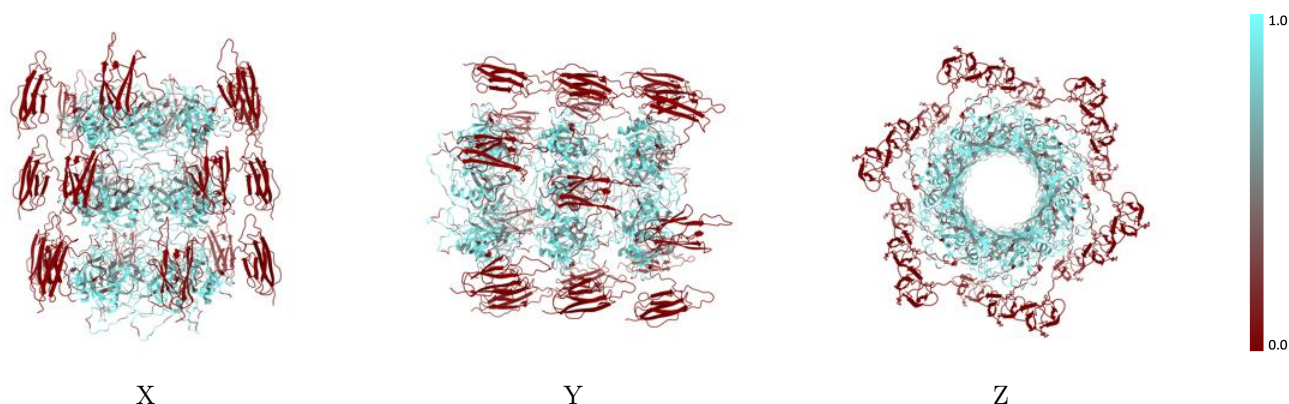
The images above show the 3D surface view of the map at the recommended contour level 0.05 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



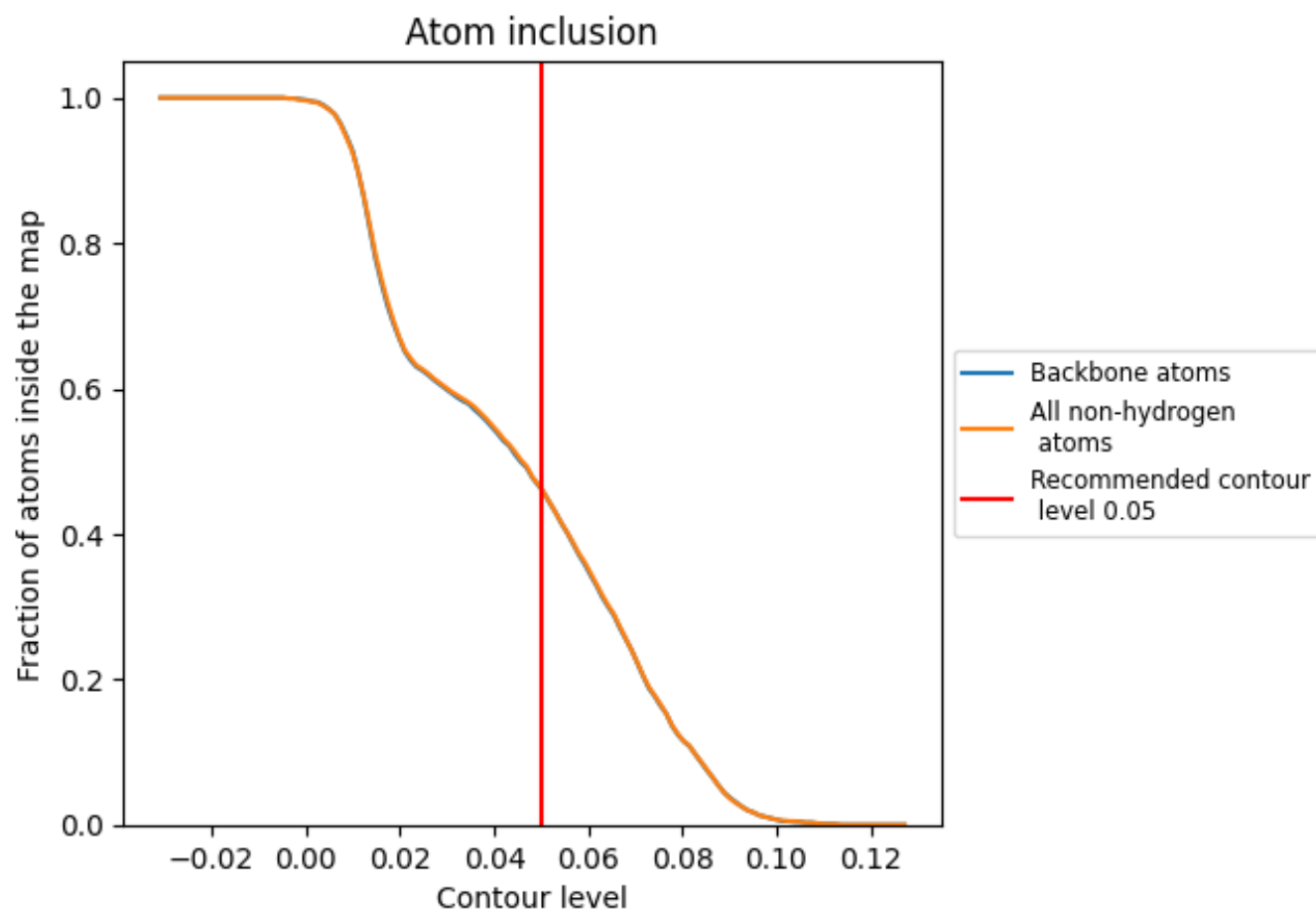
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.05).

9.4 Atom inclusion [i](#)



At the recommended contour level, 46% of all backbone atoms, 46% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

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

Chain	Atom inclusion	Q-score
All	0.4630	0.1230
A	0.4630	0.1210
B	0.4600	0.1210
C	0.4590	0.1200
D	0.4580	0.1200
E	0.4620	0.1200
F	0.4590	0.1200
G	0.4580	0.1240
H	0.4630	0.1240
I	0.4610	0.1240
J	0.4630	0.1240
K	0.4590	0.1220
L	0.4630	0.1240
M	0.4600	0.1260
N	0.4630	0.1240
O	0.4630	0.1230
P	0.4610	0.1230
Q	0.4600	0.1230
R	0.4600	0.1230

1.0

0.0

<0.0