Full wwPDB EM Validation Report ⓘ

Oct 20, 2025 – 01:51 AM JST

PDB ID	:	9K7Y / pdb_00009k7y
EMDB ID	:	EMD-62154
Title	:	Cryo-EM structure of designed zinc-induced icosahedron Cage-i53-Zn1-HEHE-14
Authors	:	Qu, Y.N.; Cao, L.X.
Deposited on	:	2024-10-24
Resolution	:	3.43 Å(reported)

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

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

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

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

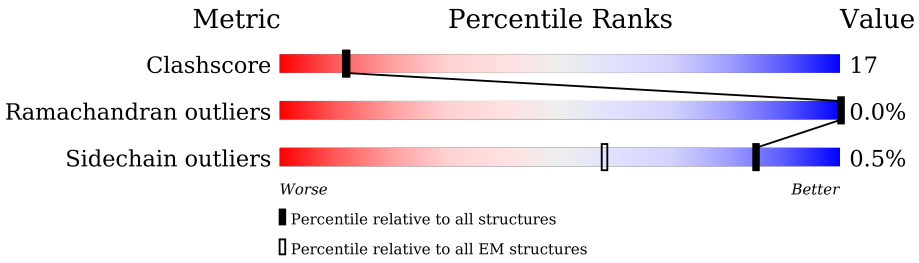
EMDB validation analysis	:	0.0.1.dev129
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.46

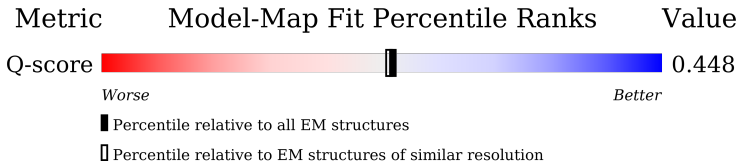
1 Overall quality at a glance

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

The reported resolution of this entry is 3.43 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	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	13927 (2.93 - 3.93)

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

Mol	Chain	Length	Quality of chain
1	0	256	11% 57% 33% • 9%
1	1	256	12% 57% 33% • 9%
1	2	256	12% 56% 34% • 9%
1	3	256	12% 58% 32% • 9%

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Mol	Chain	Length	Quality of chain
1	4	256	12% 58% 32% • 9%
1	5	256	12% 57% 33% • 9%
1	6	256	12% 58% 32% • 9%
1	7	256	12% 58% 32% • 9%
1	A	256	13% 58% 32% • 9%
1	B	256	12% 57% 33% • 9%
1	C	256	11% 59% 31% • 9%
1	D	256	12% 58% 32% • 9%
1	E	256	13% 57% 33% • 9%
1	F	256	12% 57% 33% 9%
1	G	256	11% 59% 31% • 9%
1	H	256	13% 59% 30% • 9%
1	I	256	12% 57% 32% • 9%
1	J	256	13% 56% 34% • 9%
1	K	256	12% 58% 32% • 9%
1	L	256	13% 56% 34% • 9%
1	M	256	12% 58% 32% • 9%
1	N	256	12% 58% 32% • 9%
1	O	256	13% 57% 33% • 9%
1	P	256	12% 57% 32% • 9%
1	Q	256	12% 57% 33% • 9%
1	R	256	12% 58% 32% • 9%
1	S	256	12% 58% 32% • 9%
1	T	256	13% 55% 34% • 9%
1	U	256	13% 56% 34% • 9%

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Mol	Chain	Length	Quality of chain
1	V	256	12% 58% 32% • 9%
1	W	256	13% 58% 32% • 9%
1	X	256	13% 55% 35% 9%
1	Y	256	12% 57% 33% • 9%
1	Z	256	13% 57% 32% • 9%
1	a	256	12% 55% 34% • 9%
1	b	256	12% 57% 33% • 9%
1	c	256	13% 56% 34% • 9%
1	d	256	11% 57% 32% • 9%
1	e	256	12% 58% 32% • 9%
1	f	256	12% 57% 33% 9%
1	g	256	13% 57% 33% • 9%
1	h	256	12% 58% 32% • 9%
1	i	256	12% 57% 32% • 9%
1	j	256	12% 58% 32% • 9%
1	k	256	12% 59% 31% 9%
1	l	256	13% 58% 32% • 9%
1	m	256	13% 57% 32% • 9%
1	n	256	12% 57% 32% • 9%
1	o	256	12% 56% 34% • 9%
1	p	256	12% 57% 32% • 9%
1	q	256	12% 57% 32% • 9%
1	r	256	12% 58% 32% • 9%
1	s	256	12% 57% 34% 9%
1	t	256	12% 58% 32% • 9%

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Mol	Chain	Length	Quality of chain
1	u	256	13% 56% 34% 9%
1	v	256	12% 58% 32% 9%
1	w	256	12% 58% 32% 9%
1	x	256	12% 57% 33% 9%
1	y	256	12% 57% 32% 9%
1	z	256	13% 57% 33% 9%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 111540 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Cage-i53-Zn1-HEHE-14.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	B	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	C	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	D	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	E	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	F	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	Q	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	b	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	m	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	x	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	G	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	R	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	c	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	n	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	y	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	H	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	S	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	d	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	o	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	z	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	I	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	T	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	e	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	p	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	0	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	J	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	U	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	f	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	q	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	1	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	K	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	V	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	g	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	r	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	2	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	L	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	W	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	h	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	s	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	3	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	M	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	X	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	i	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	t	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	4	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	N	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	Y	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	j	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	u	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	5	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	O	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	Z	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	k	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	v	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	6	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	P	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	a	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	l	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		
1	w	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	7	232	Total	C	N	O	S	0	0
			1857	1188	306	361	2		

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
2	A	3	Total	Zn	0
			3	3	
2	B	3	Total	Zn	0
			3	3	
2	C	3	Total	Zn	0
			3	3	
2	D	2	Total	Zn	0
			2	2	
2	E	2	Total	Zn	0
			2	2	
2	F	2	Total	Zn	0
			2	2	
2	Q	2	Total	Zn	0
			2	2	
2	b	1	Total	Zn	0
			1	1	
2	m	1	Total	Zn	0
			1	1	
2	x	1	Total	Zn	0
			1	1	
2	G	2	Total	Zn	0
			2	2	
2	R	2	Total	Zn	0
			2	2	
2	c	1	Total	Zn	0
			1	1	
2	n	1	Total	Zn	0
			1	1	
2	y	1	Total	Zn	0
			1	1	
2	H	1	Total	Zn	0
			1	1	
2	S	2	Total	Zn	0
			2	2	
2	d	1	Total	Zn	0
			1	1	

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Mol	Chain	Residues	Atoms	AltConf
2	o	1	Total Zn 1 1	0
2	z	1	Total Zn 1 1	0
2	I	1	Total Zn 1 1	0
2	T	3	Total Zn 3 3	0
2	e	1	Total Zn 1 1	0
2	p	1	Total Zn 1 1	0
2	0	3	Total Zn 3 3	0
2	J	2	Total Zn 2 2	0
2	U	2	Total Zn 2 2	0
2	f	2	Total Zn 2 2	0
2	q	1	Total Zn 1 1	0
2	1	3	Total Zn 3 3	0
2	K	3	Total Zn 3 3	0
2	V	2	Total Zn 2 2	0
2	g	3	Total Zn 3 3	0
2	r	2	Total Zn 2 2	0
2	2	3	Total Zn 3 3	0
2	L	3	Total Zn 3 3	0
2	W	2	Total Zn 2 2	0
2	h	2	Total Zn 2 2	0
2	s	2	Total Zn 2 2	0

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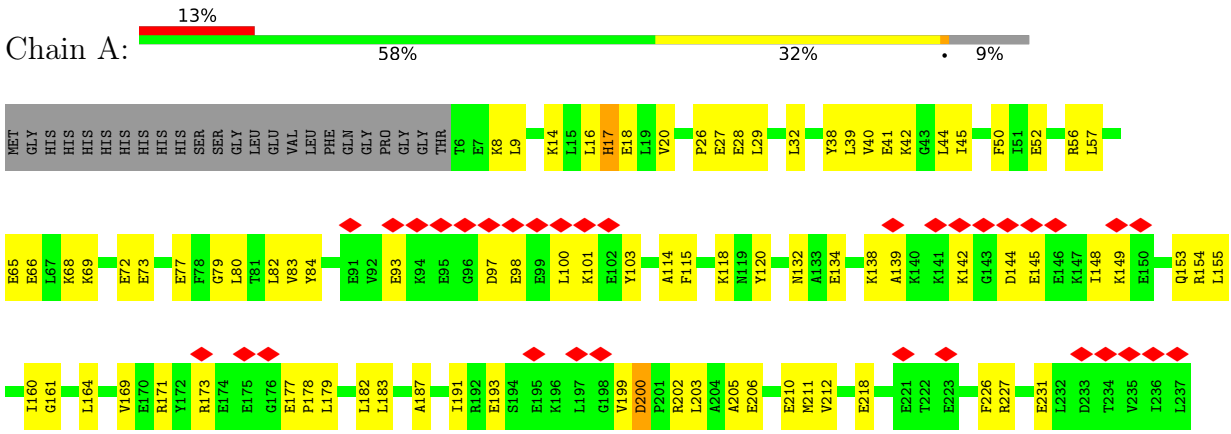
Mol	Chain	Residues	Atoms	AltConf
2	3	3	Total Zn 3 3	0
2	M	3	Total Zn 3 3	0
2	X	2	Total Zn 2 2	0
2	i	2	Total Zn 2 2	0
2	t	1	Total Zn 1 1	0
2	4	3	Total Zn 3 3	0
2	N	3	Total Zn 3 3	0
2	Y	2	Total Zn 2 2	0
2	j	1	Total Zn 1 1	0
2	u	1	Total Zn 1 1	0
2	5	3	Total Zn 3 3	0
2	O	3	Total Zn 3 3	0
2	Z	2	Total Zn 2 2	0
2	k	1	Total Zn 1 1	0
2	v	1	Total Zn 1 1	0
2	6	3	Total Zn 3 3	0
2	P	3	Total Zn 3 3	0
2	a	2	Total Zn 2 2	0
2	l	3	Total Zn 3 3	0
2	w	1	Total Zn 1 1	0
2	7	3	Total Zn 3 3	0

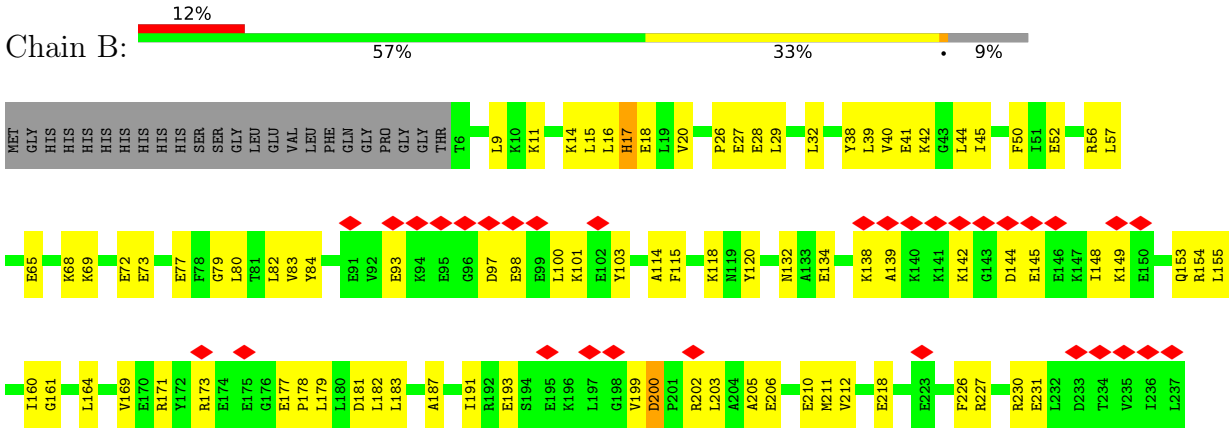
3 Residue-property plots (i)

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

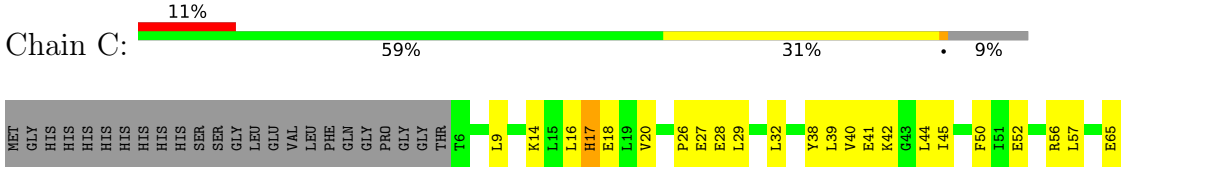
- Molecule 1: Cage-i53-Zn1-HEHE-14

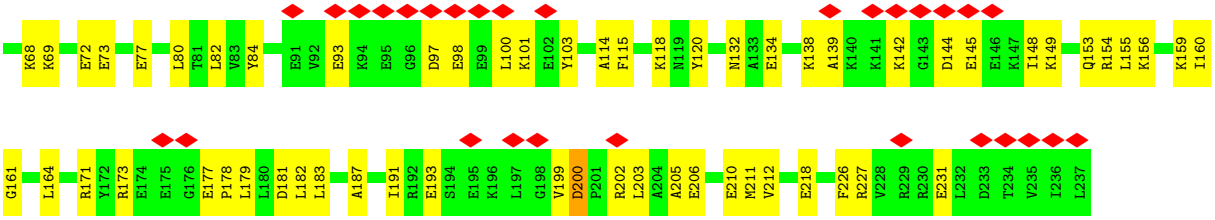


- Molecule 1: Cage-i53-Zn1-HEHE-14

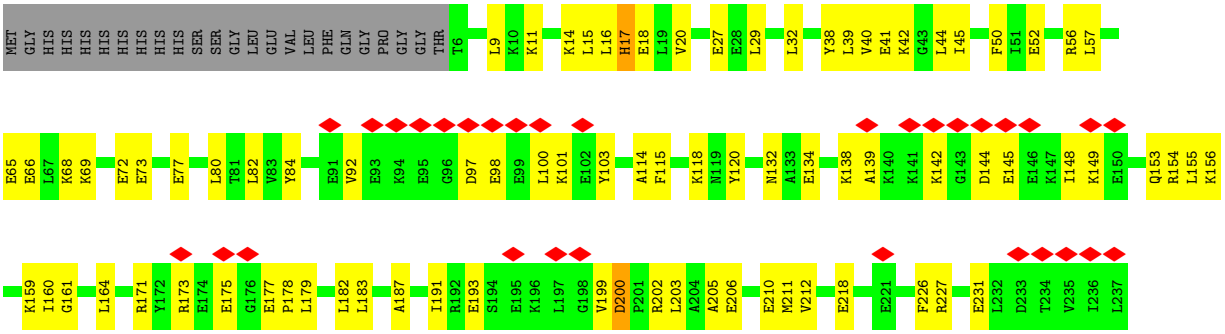


- Molecule 1: Cage-i53-Zn1-HEHE-14

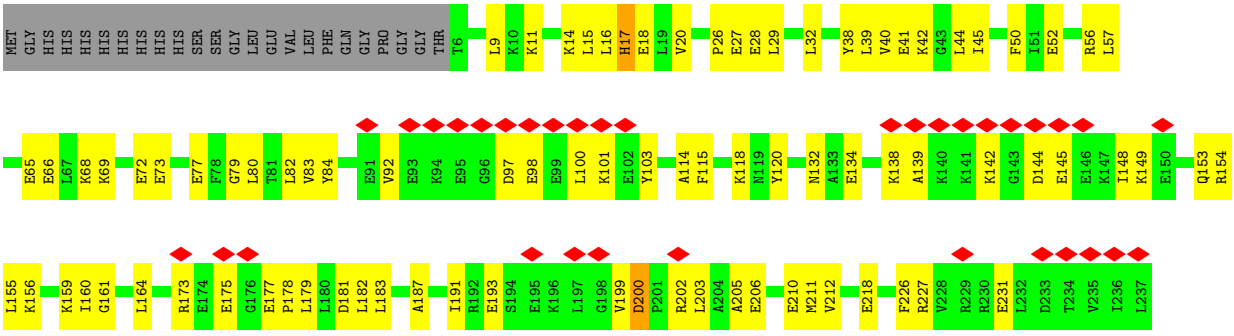




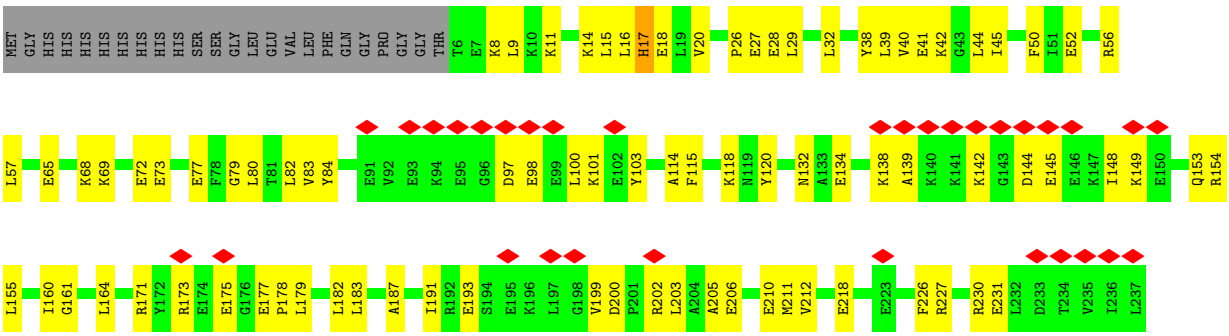
• Molecule 1: Cage-i53-Zn1-HEHE-14



• Molecule 1: Cage-i53-Zn1-HEHE-14

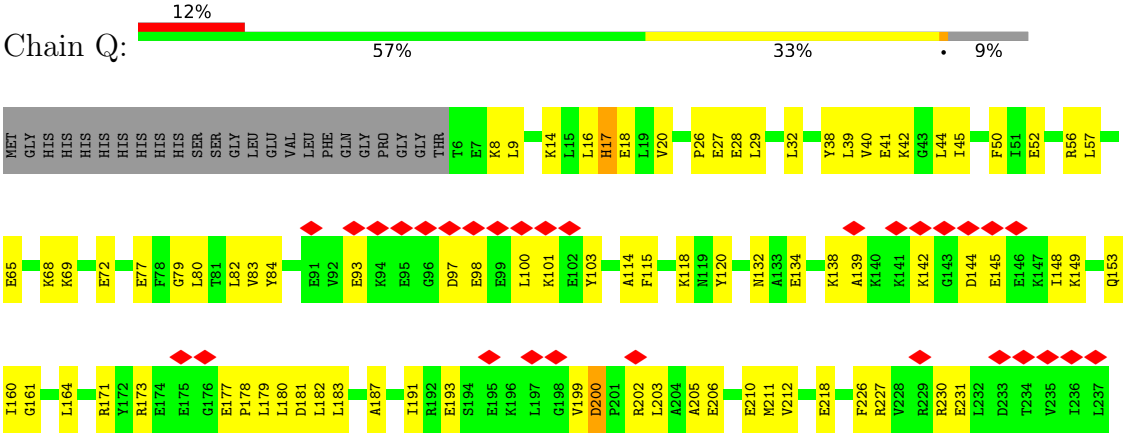


• Molecule 1: Cage-i53-Zn1-HEHE-14



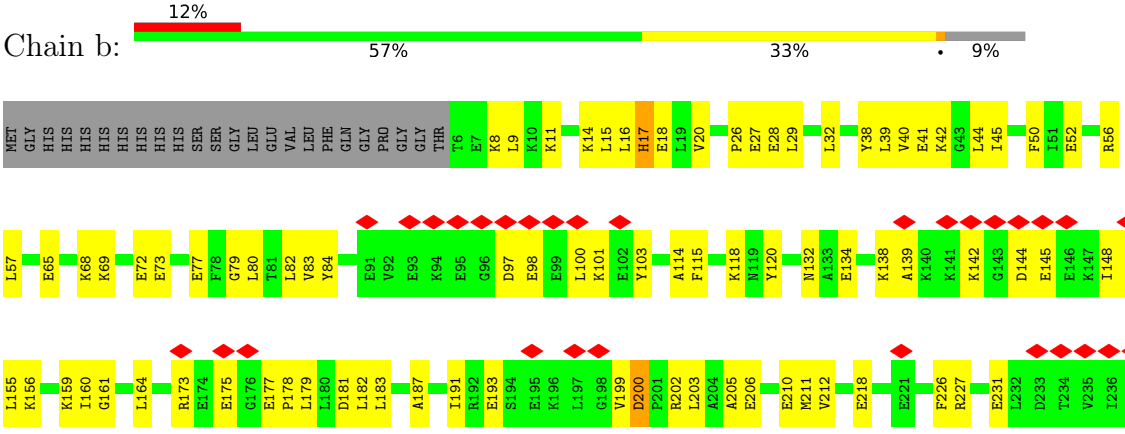
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain Q:



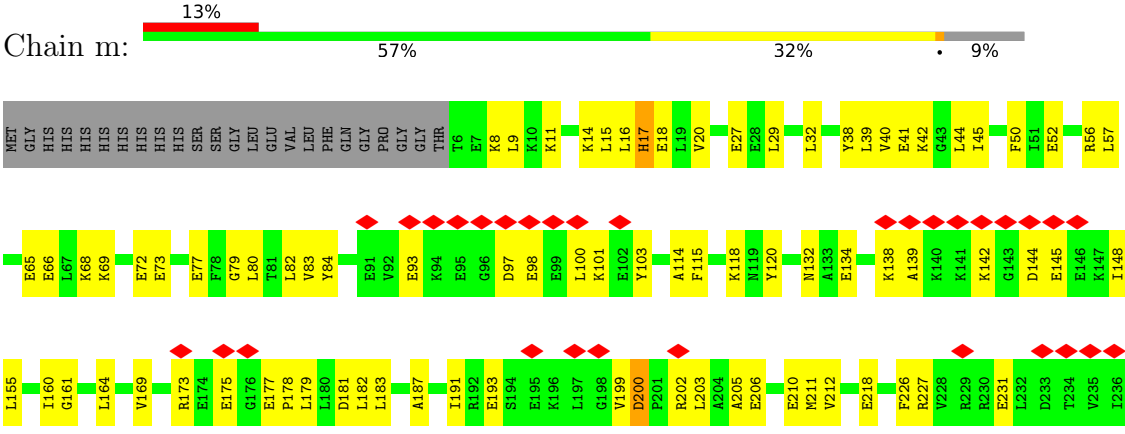
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain b:



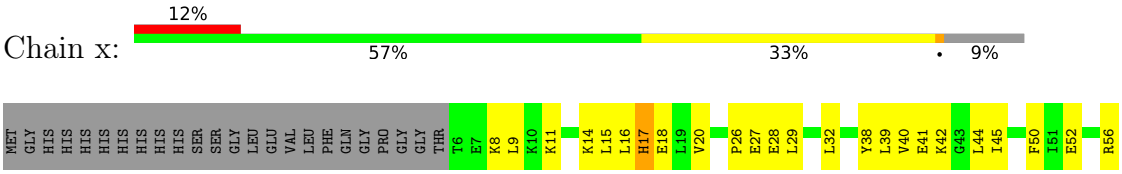
• Molecule 1: Cage-i53-Zn1-HEHE-14

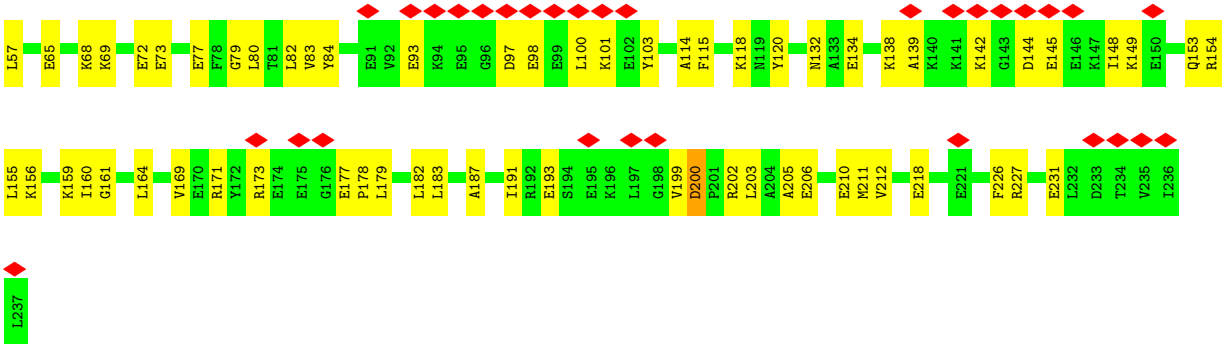
Chain m:



• Molecule 1: Cage-i53-Zn1-HEHE-14

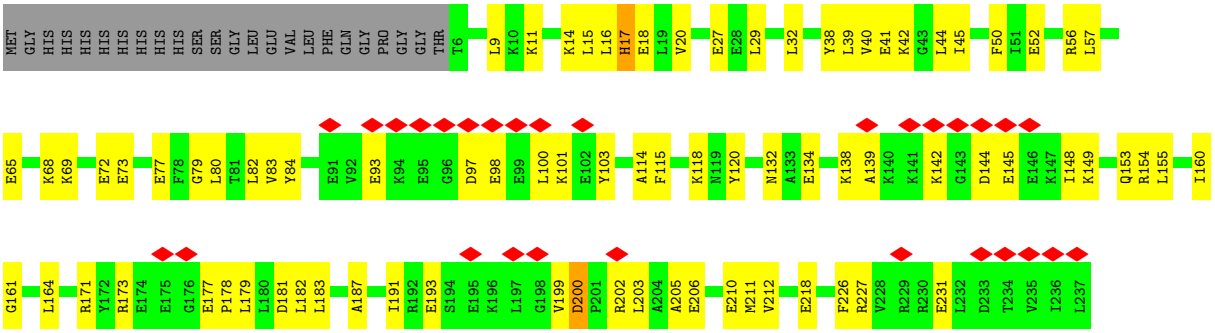
Chain x:





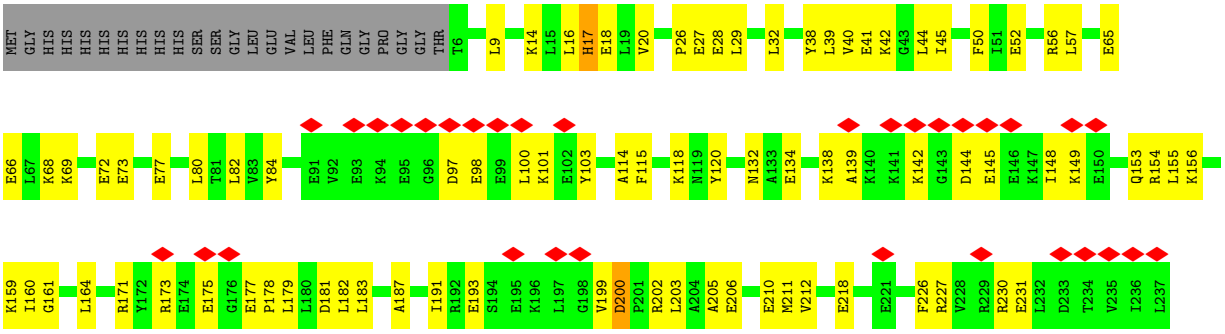
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain G:



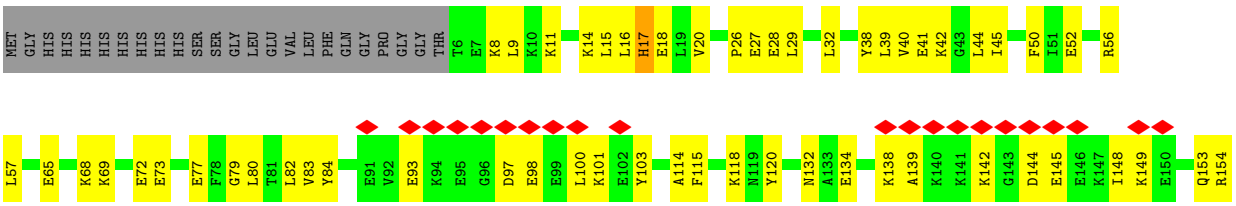
• Molecule 1: Cage-i53-Zn1-HEHE-14

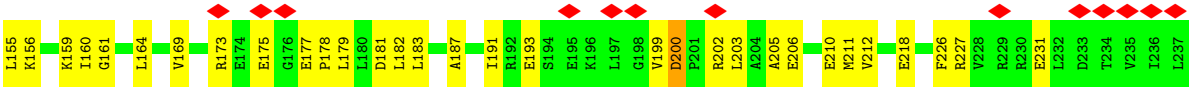
Chain R:



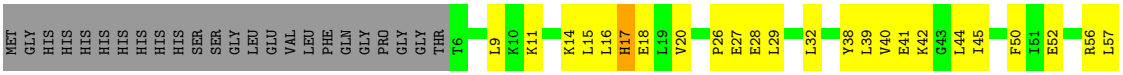
• Molecule 1: Cage-i53-Zn1-HEHE-14

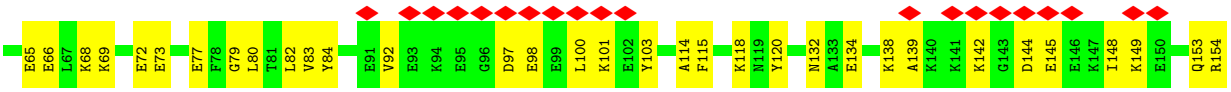
Chain c:

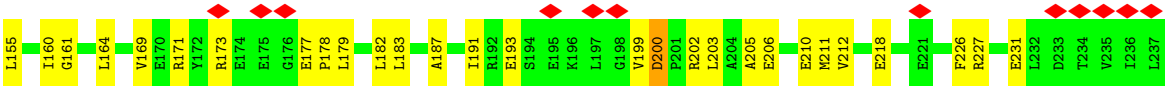




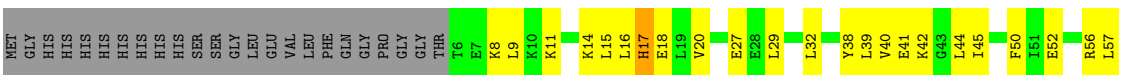
• Molecule 1: Cage-i53-Zn1-HEHE-14

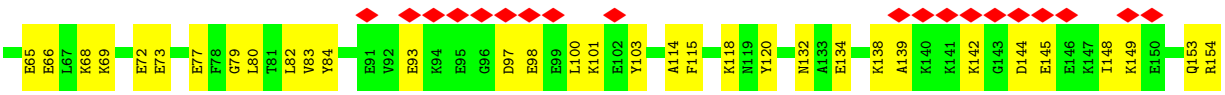


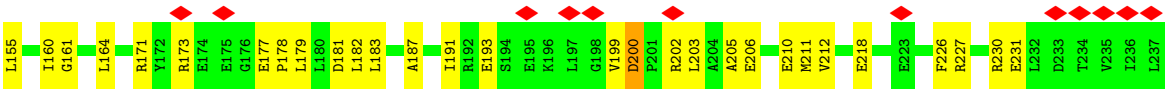




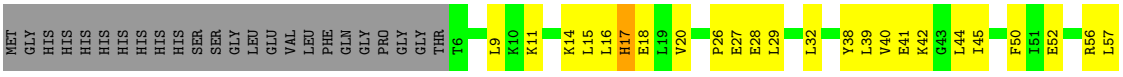
• Molecule 1: Cage-i53-Zn1-HEHE-14

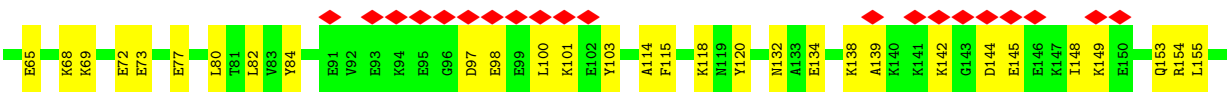


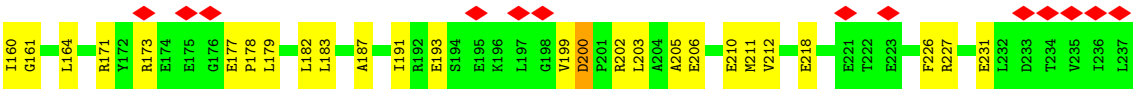




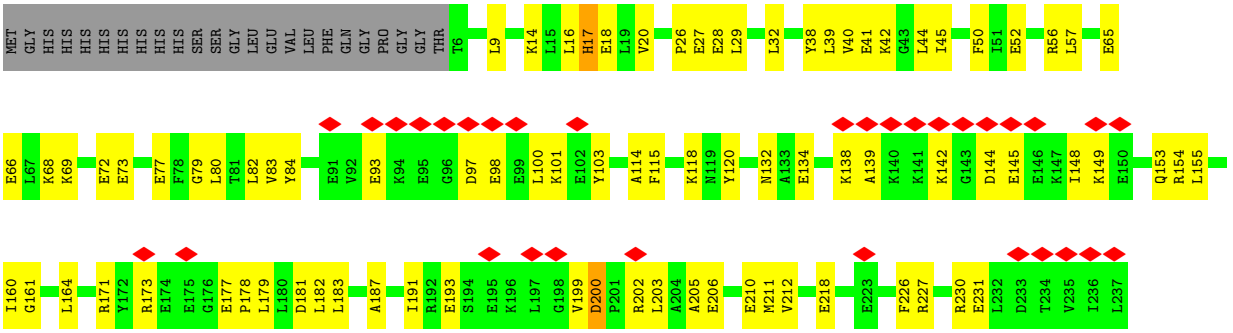
• Molecule 1: Cage-i53-Zn1-HEHE-14





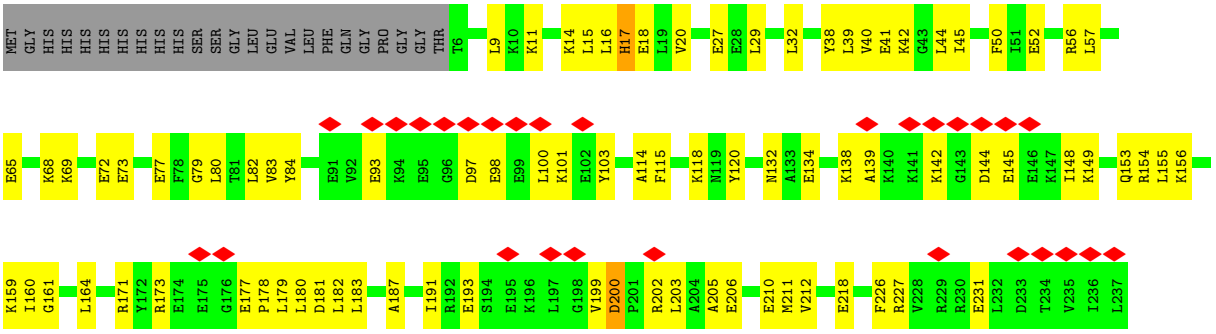


• Molecule 1: Cage-i53-Zn1-HEHE-14



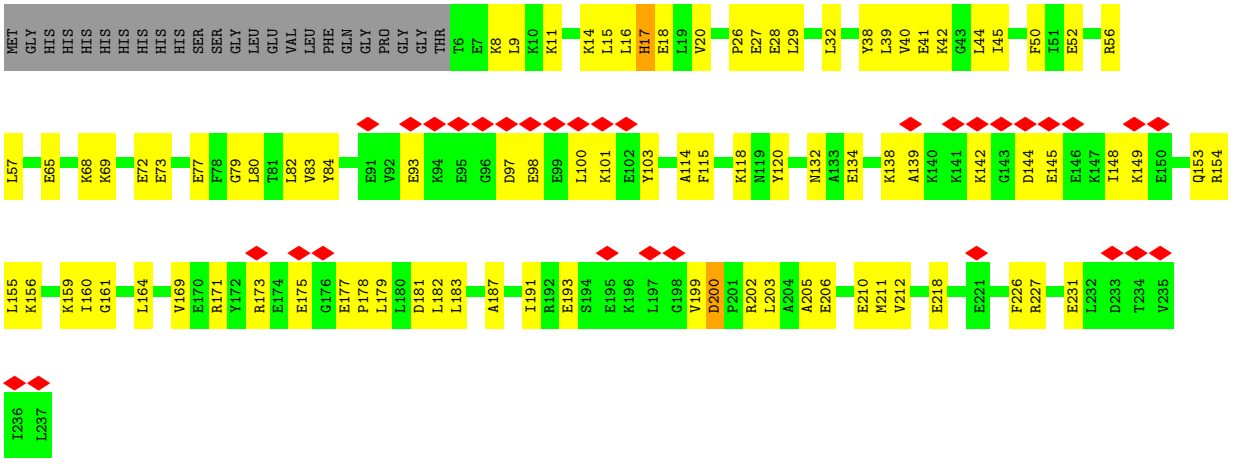
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain d:



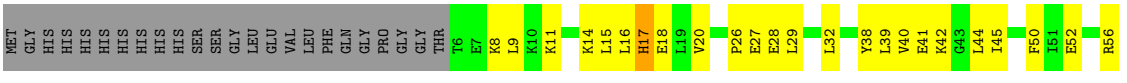
• Molecule 1: Cage-i53-Zn1-HEHE-14

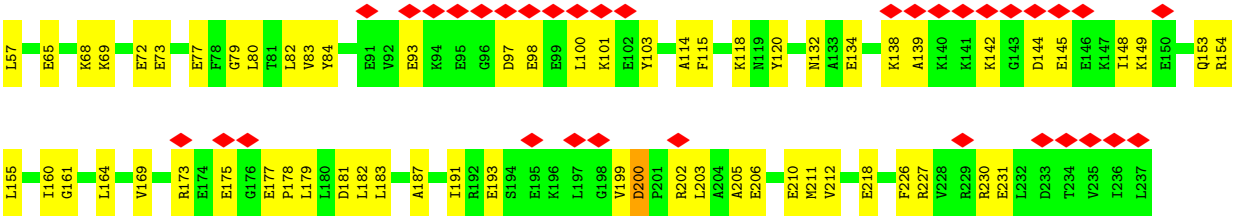
Chain o:



• Molecule 1: Cage-i53-Zn1-HEHE-14

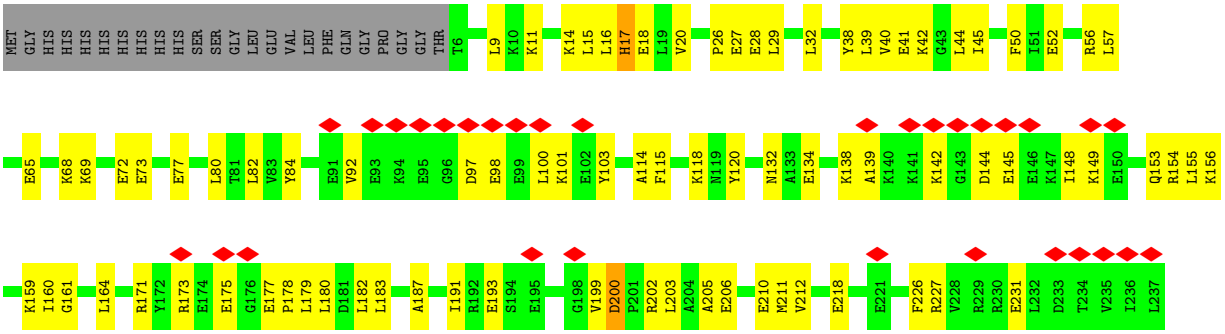
Chain z:





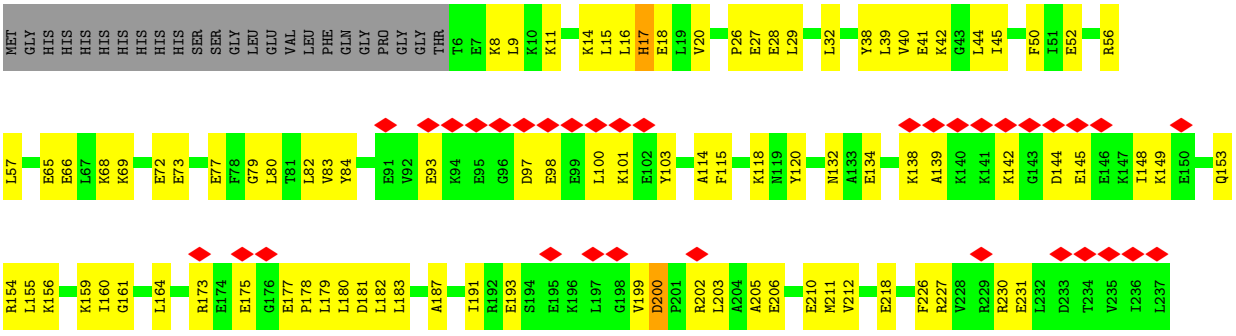
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain I:



• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain T:



• Molecule 1: Cage-i53-Zn1-HEHE-14

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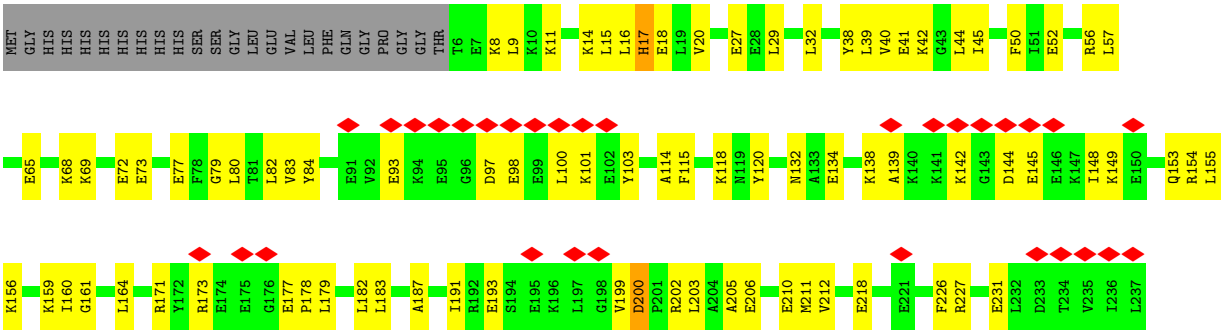
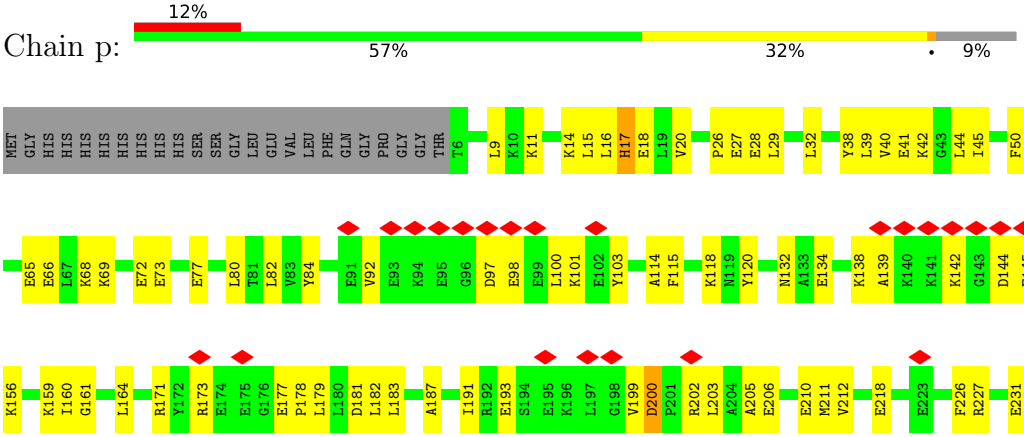


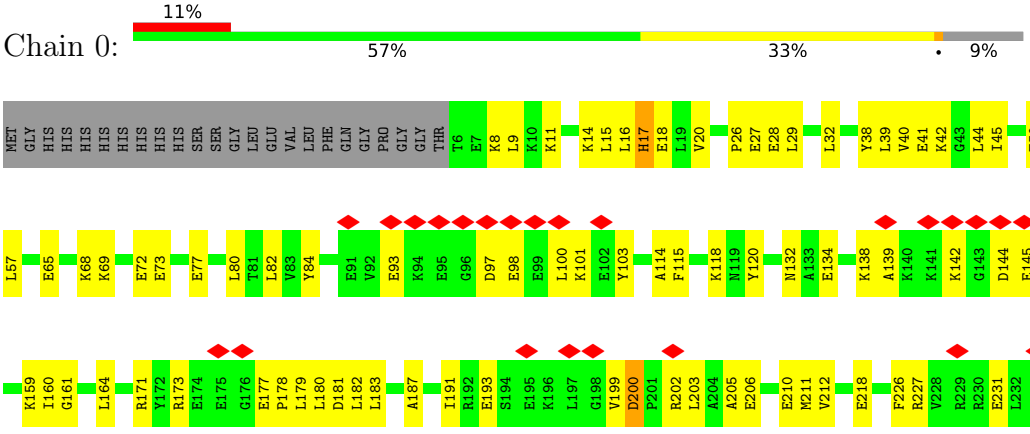
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain p:



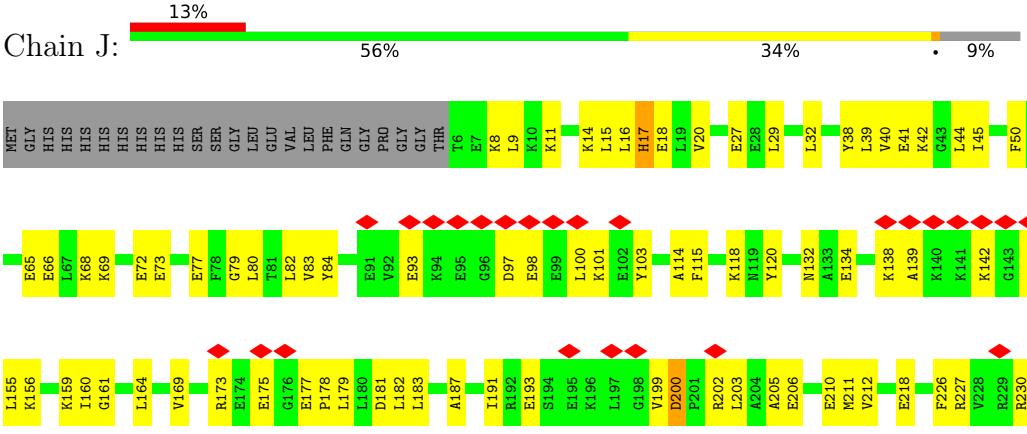
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain 0:



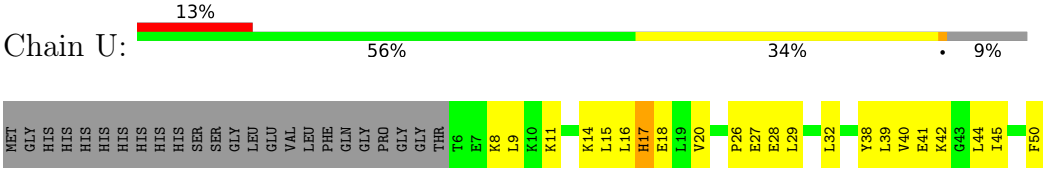
• Molecule 1: Cage-i53-Zn1-HEHE-14

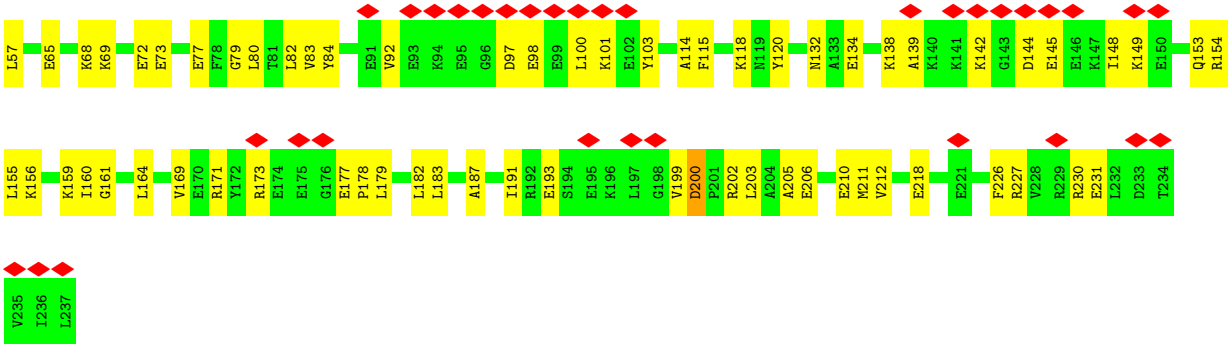
Chain J:



• Molecule 1: Cage-i53-Zn1-HEHE-14

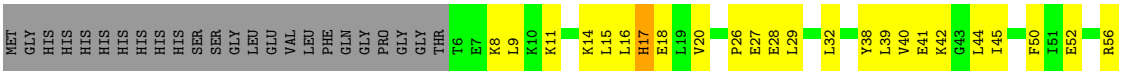
Chain U:

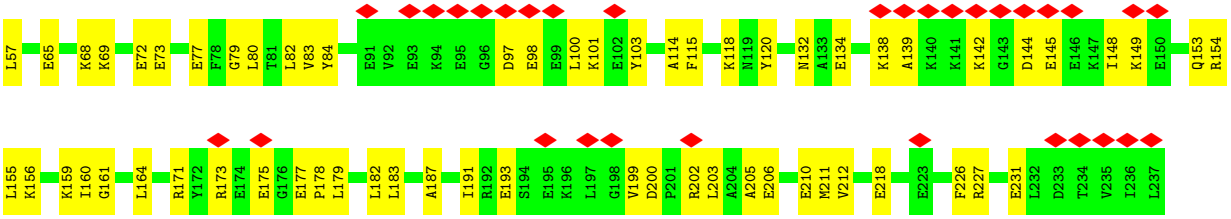




• Molecule 1: Cage-i53-Zn1-HEHE-14

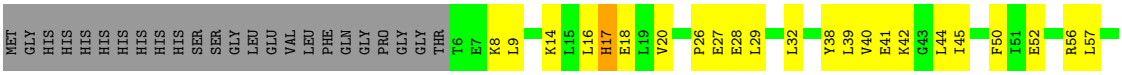
Chain f:

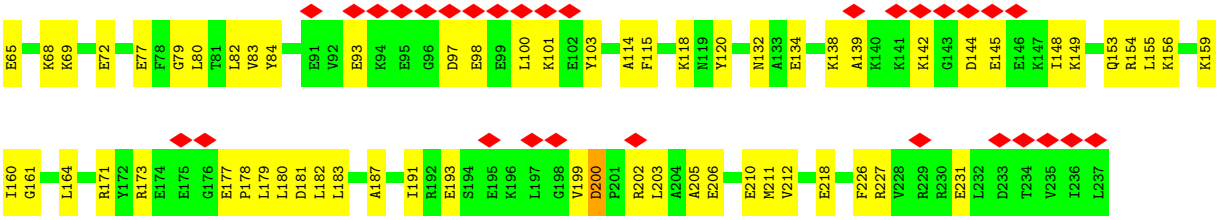




• Molecule 1: Cage-i53-Zn1-HEHE-14

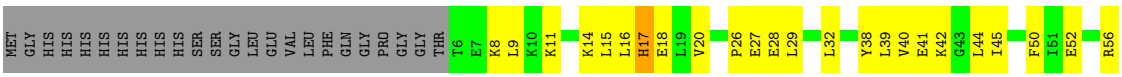
Chain q:

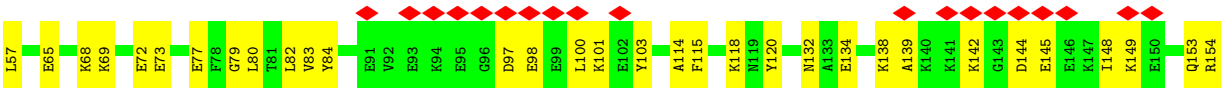


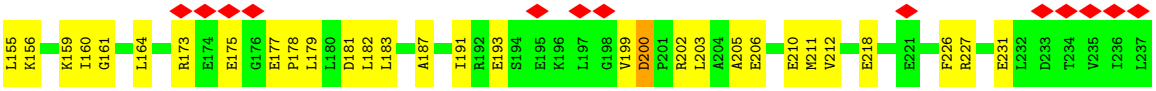


• Molecule 1: Cage-i53-Zn1-HEHE-14

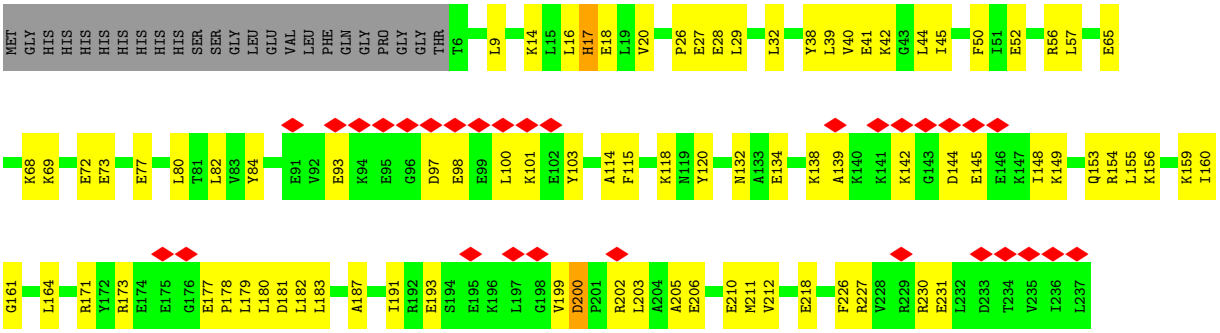
Chain 1:



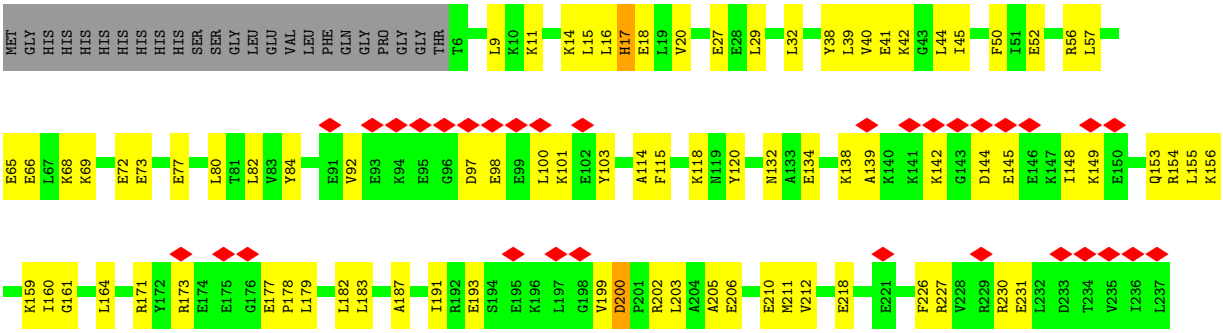




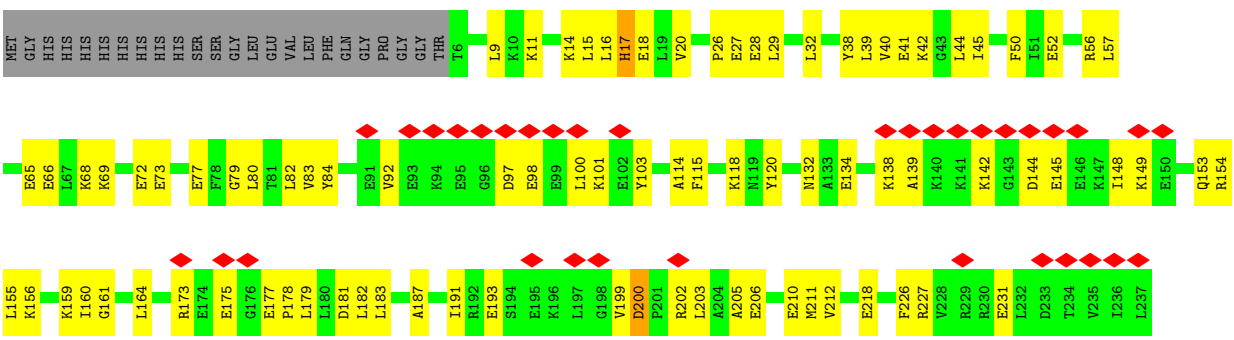
• Molecule 1: Cage-i53-Zn1-HEHE-14



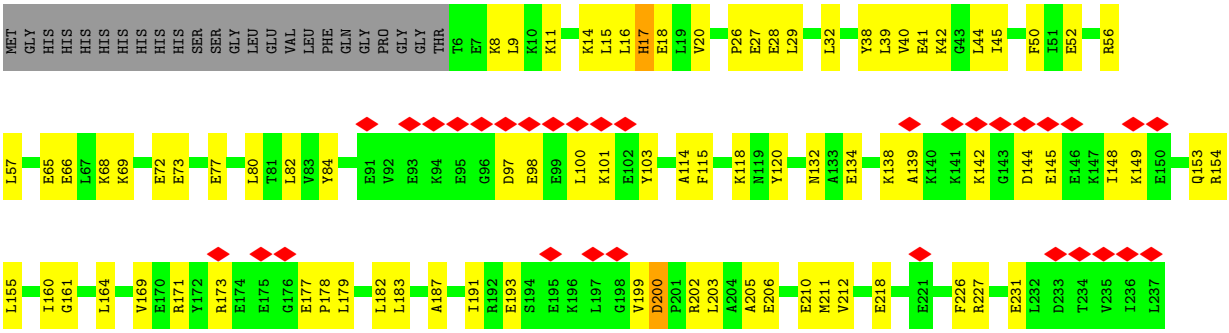
• Molecule 1: Cage-i53-Zn1-HEHE-14



• Molecule 1: Cage-i53-Zn1-HEHE-14

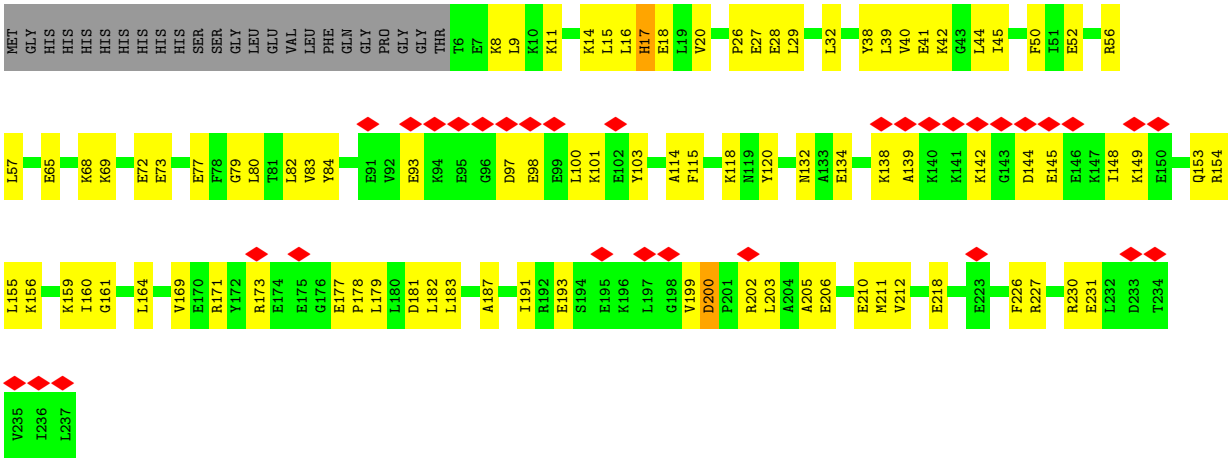


• Molecule 1: Cage-i53-Zn1-HEHE-14



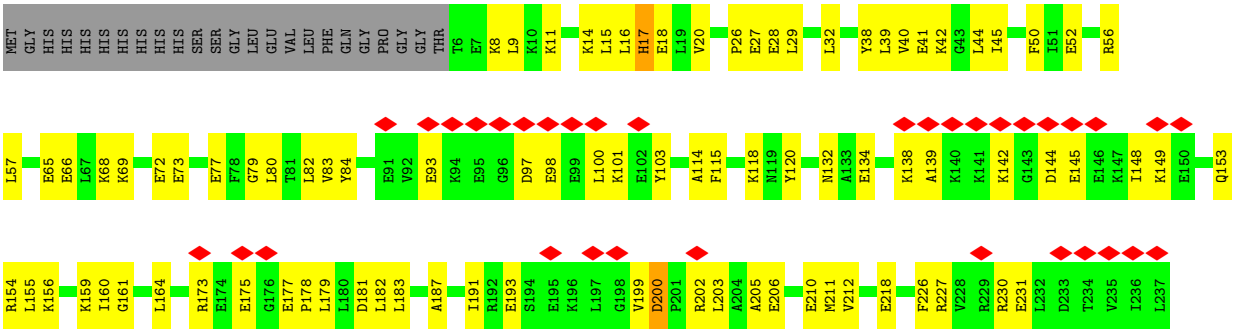
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain 2:



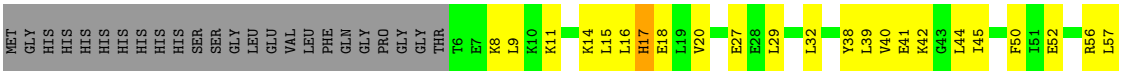
• Molecule 1: Cage-i53-Zn1-HEHE-14

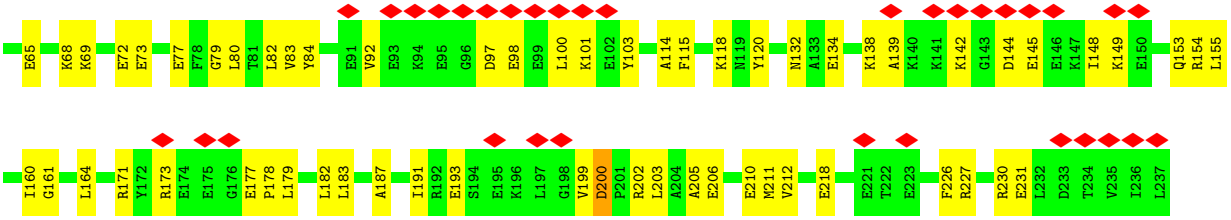
Chain L:



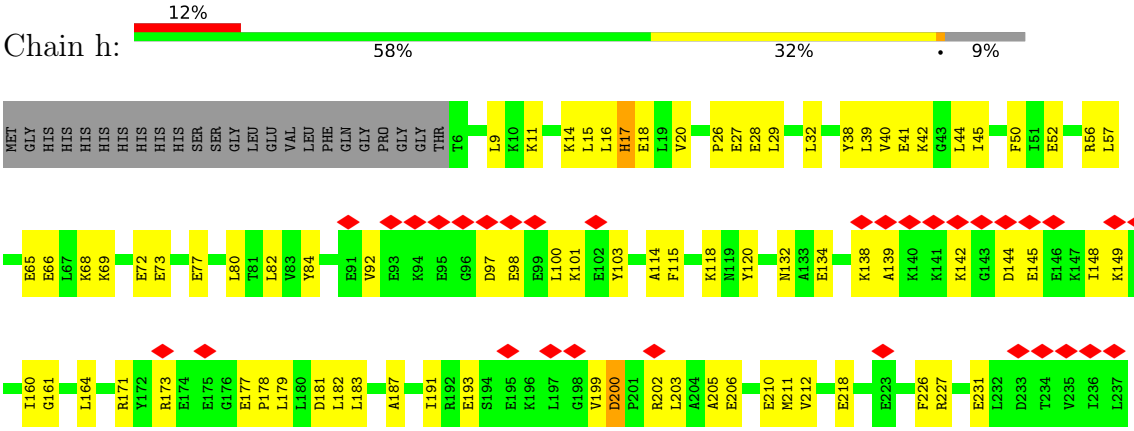
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain W:

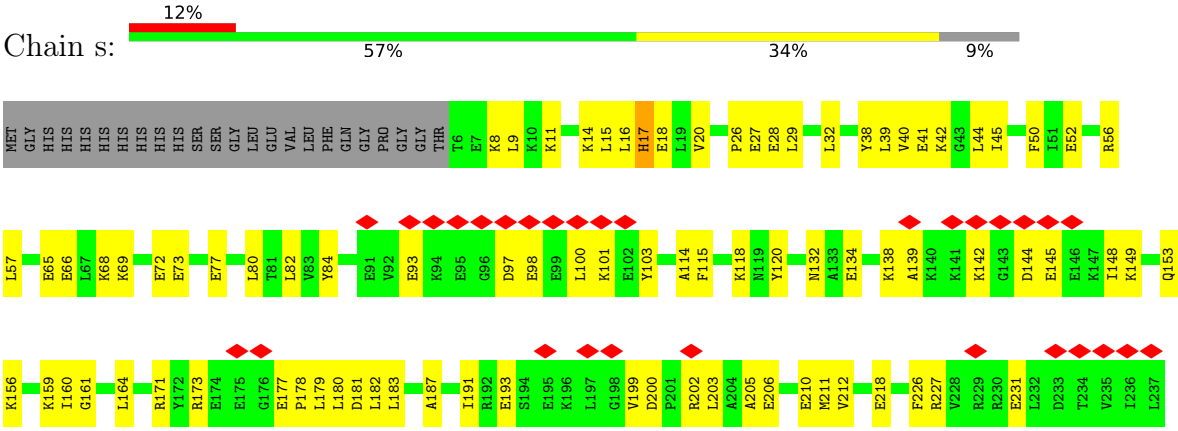




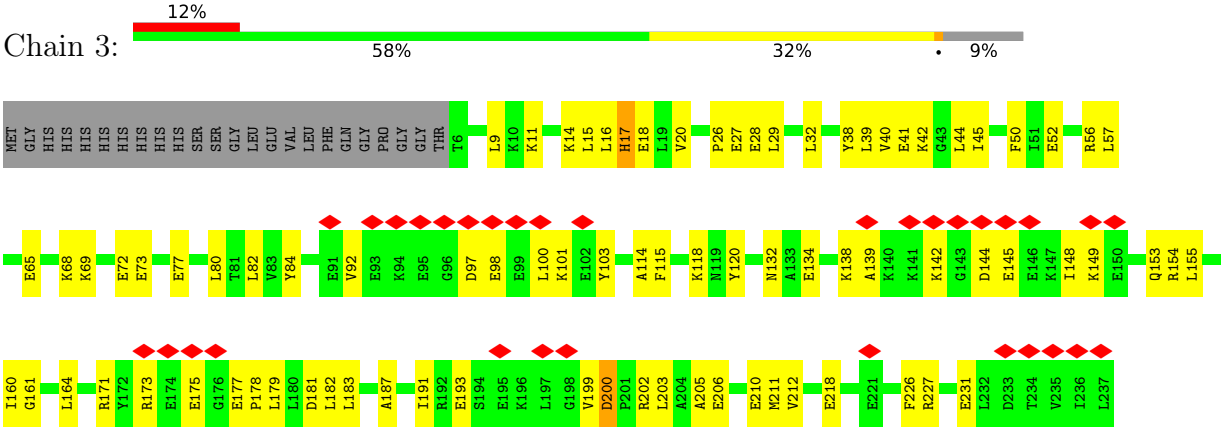
• Molecule 1: Cage-i53-Zn1-HEHE-14



• Molecule 1: Cage-i53-Zn1-HEHE-14

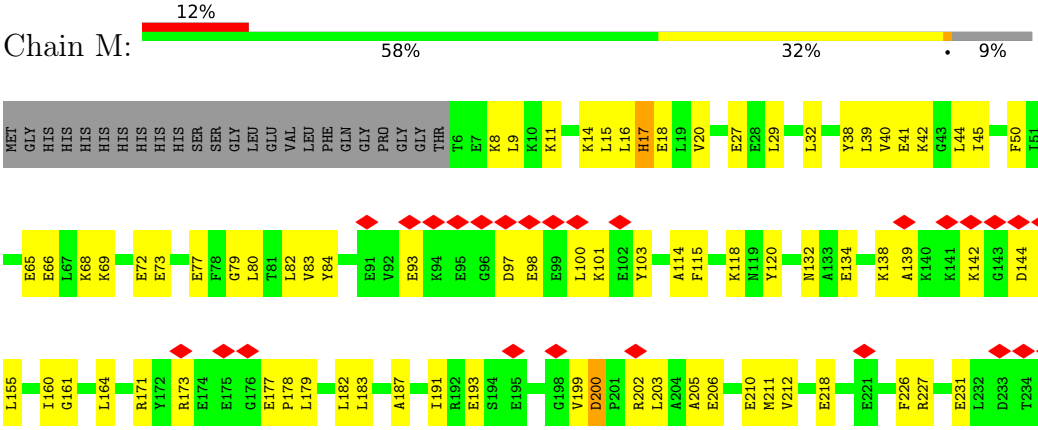


• Molecule 1: Cage-i53-Zn1-HEHE-14



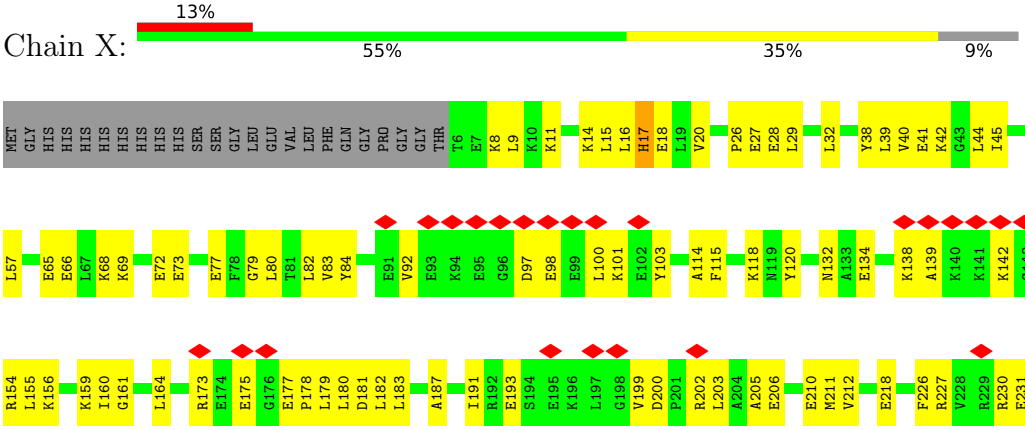
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain M:



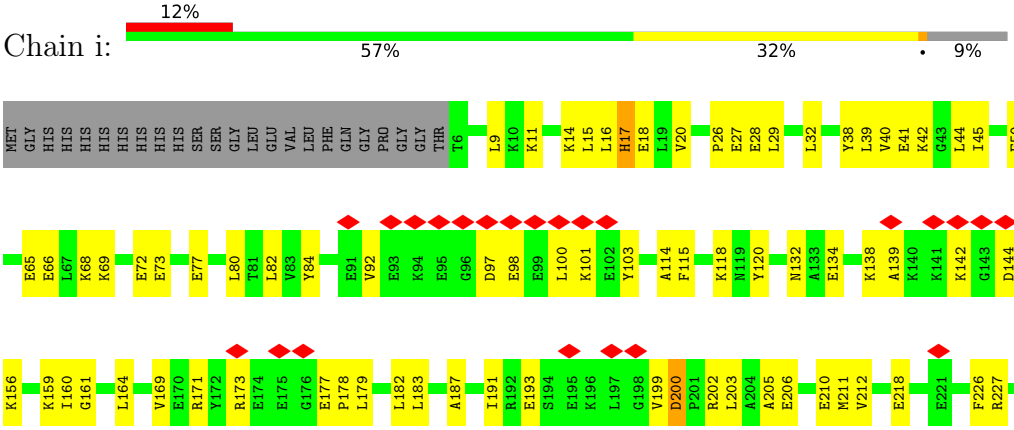
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain X:



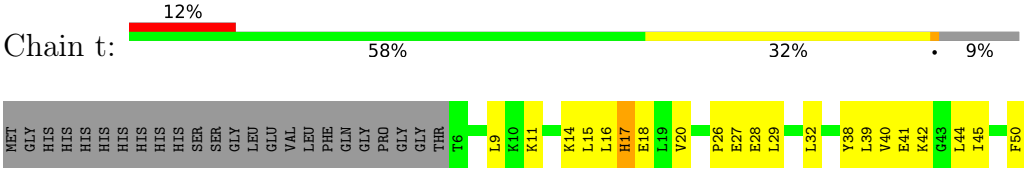
• Molecule 1: Cage-i53-Zn1-HEHE-14

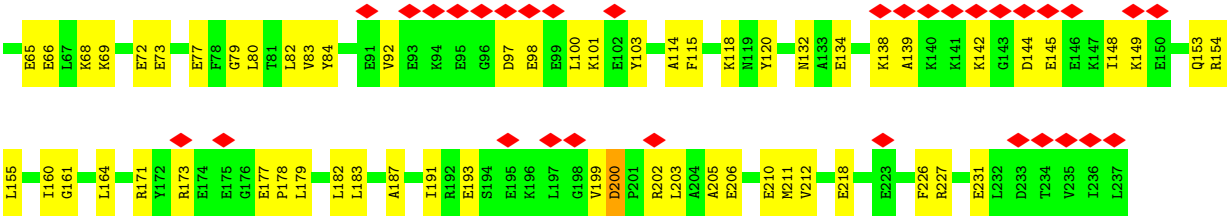
Chain i:



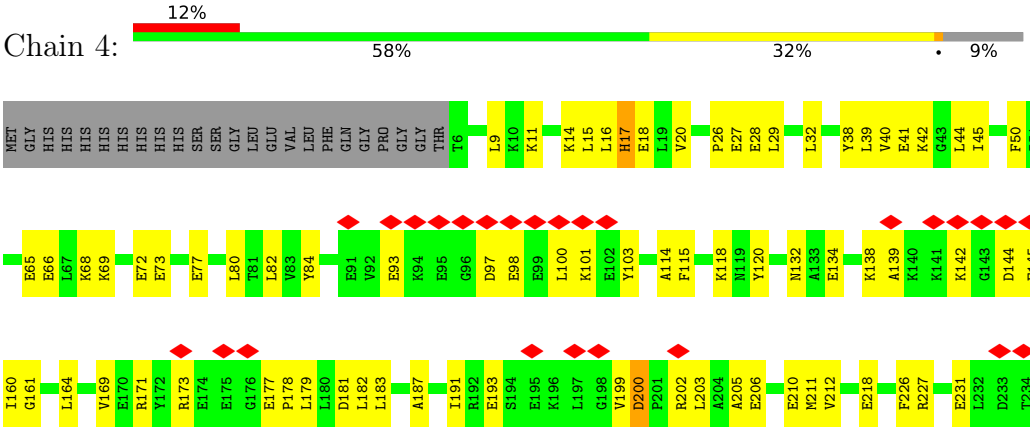
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain t:

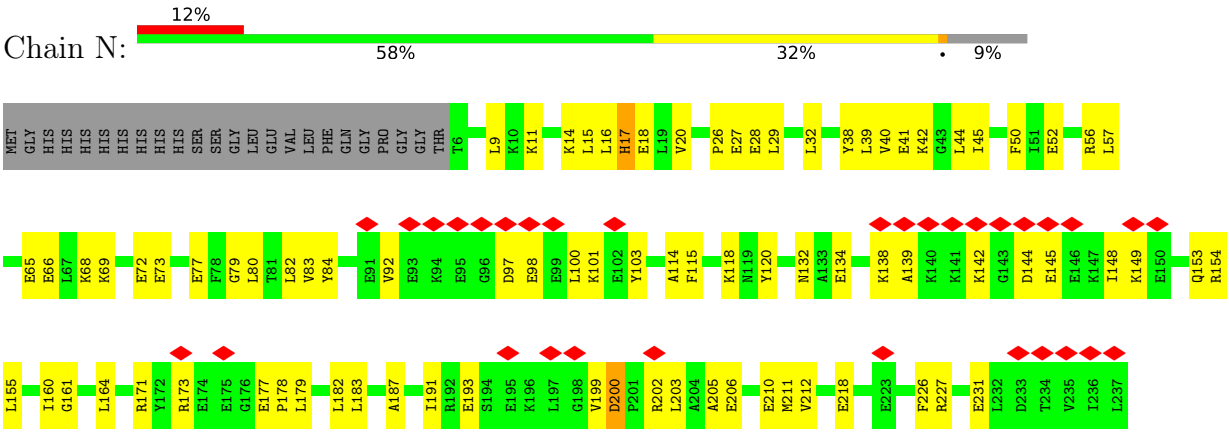




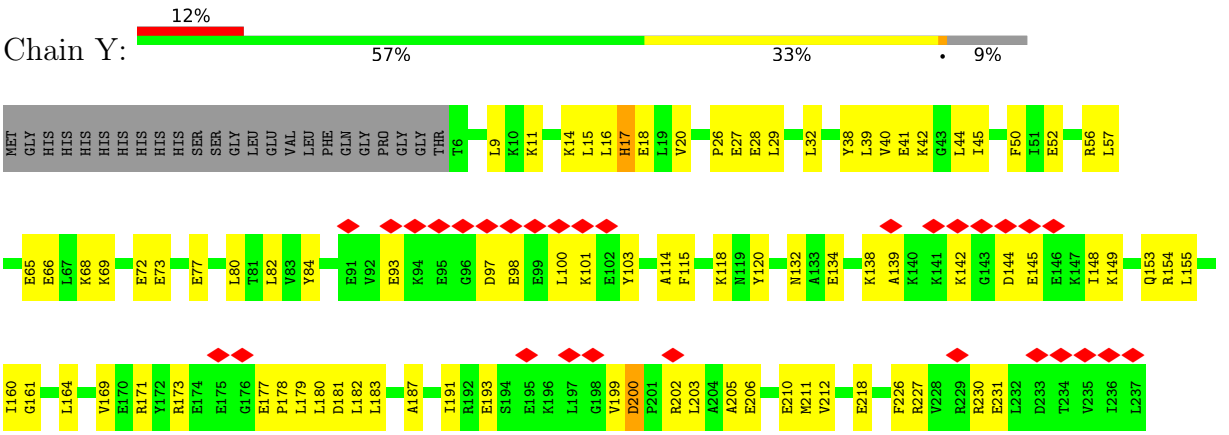
• Molecule 1: Cage-i53-Zn1-HEHE-14



• Molecule 1: Cage-i53-Zn1-HEHE-14

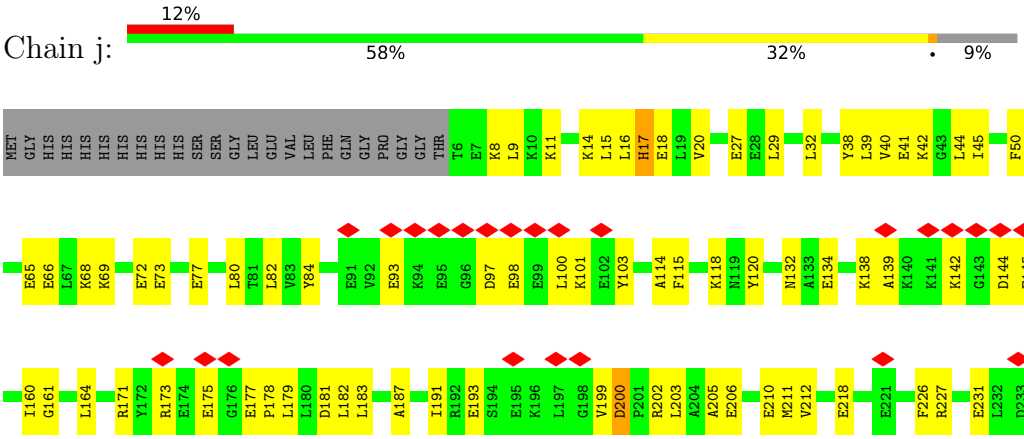


• Molecule 1: Cage-i53-Zn1-HEHE-14



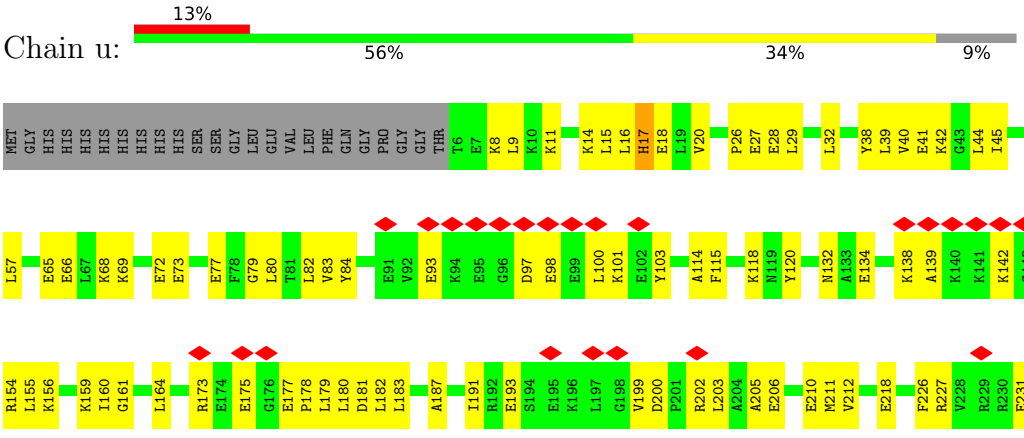
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain j:



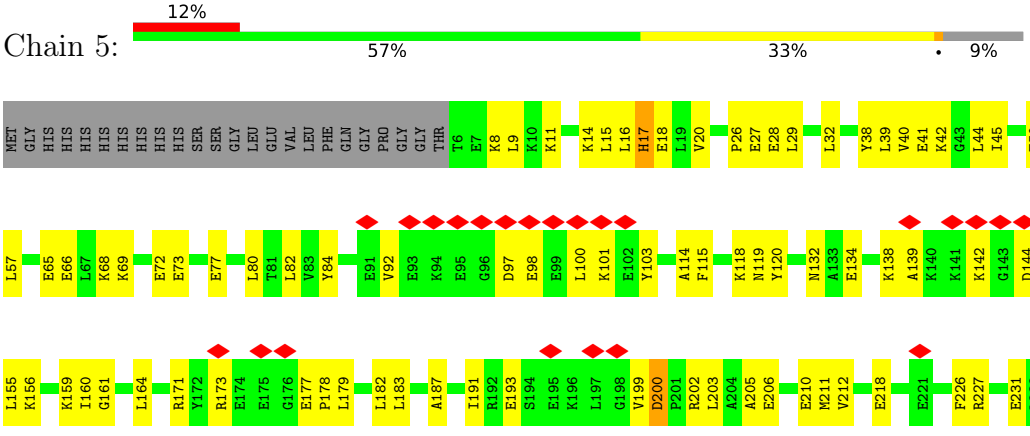
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain u:



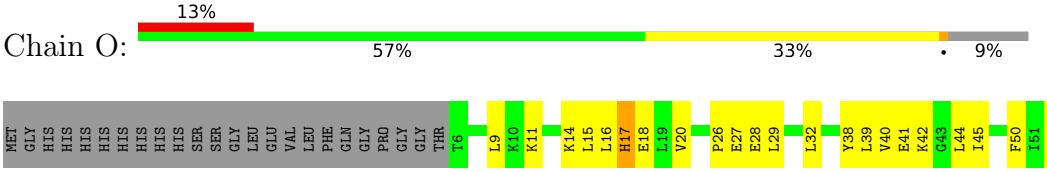
• Molecule 1: Cage-i53-Zn1-HEHE-14

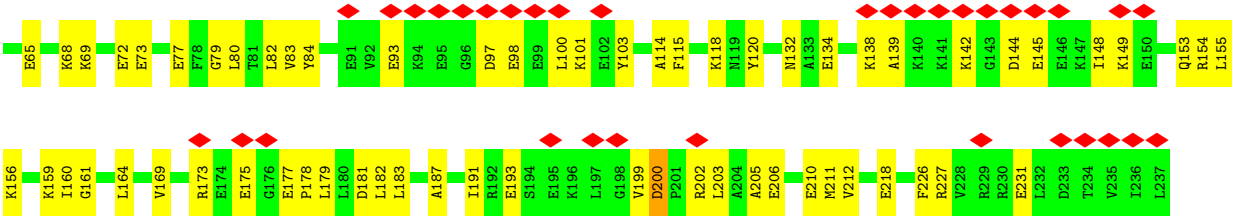
Chain 5:



• Molecule 1: Cage-i53-Zn1-HEHE-14

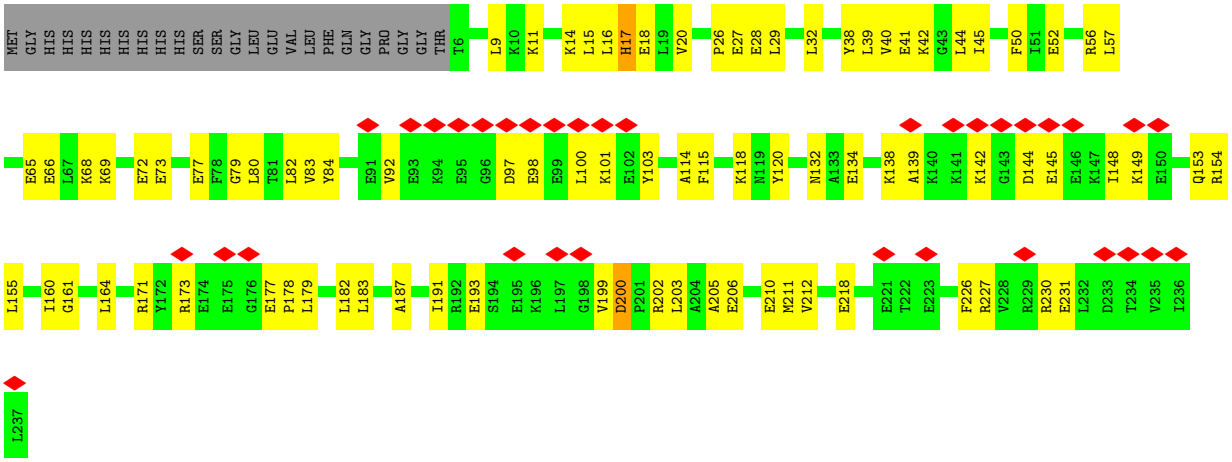
Chain O:





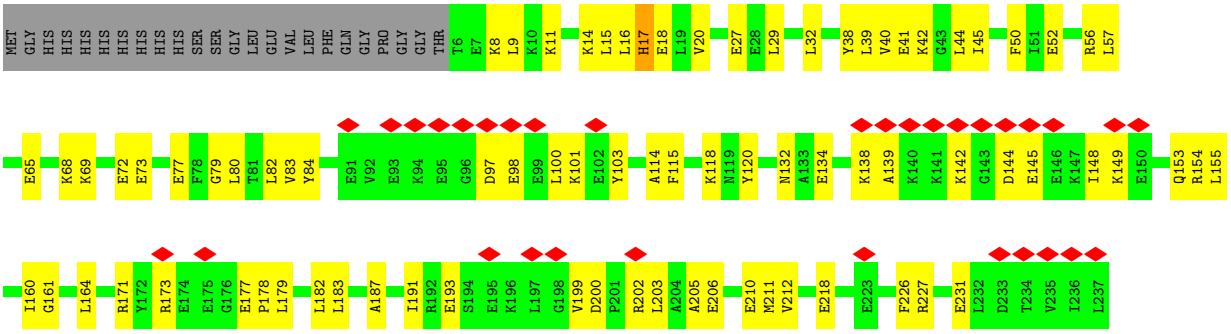
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain Z:



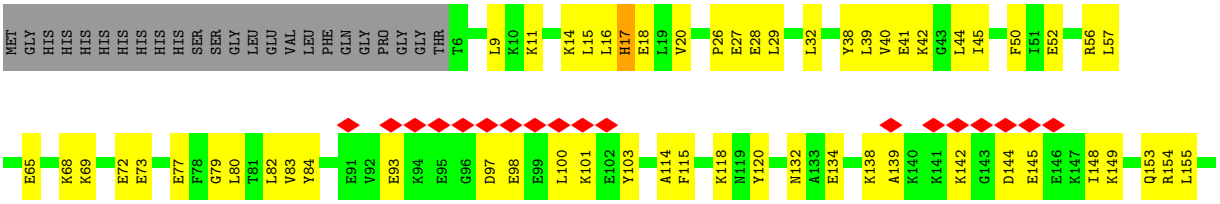
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain k:

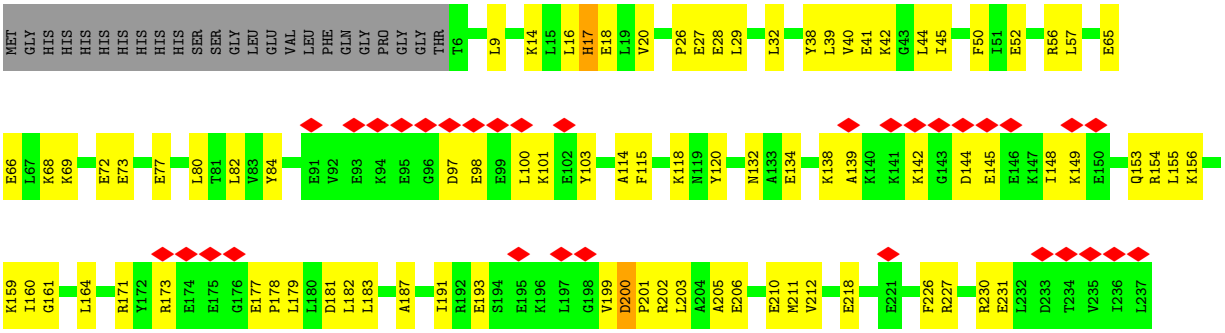


• Molecule 1: Cage-i53-Zn1-HEHE-14

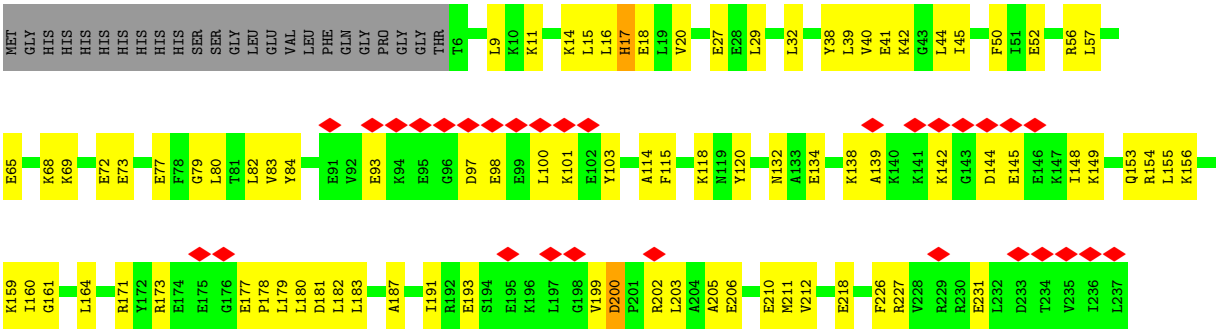
Chain v:



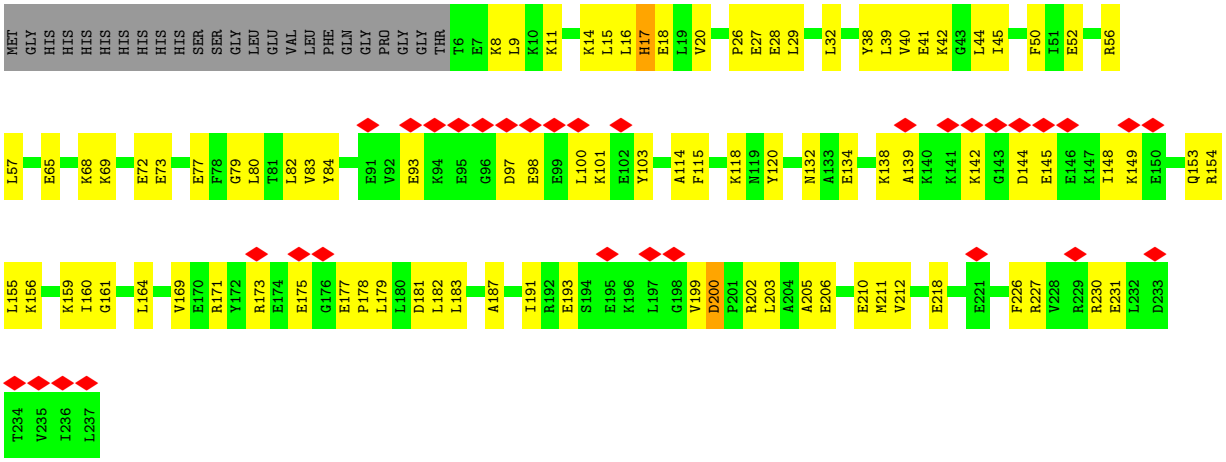
• Molecule 1: Cage-i53-Zn1-HEHE-14



• Molecule 1: Cage-i53-Zn1-HEHE-14

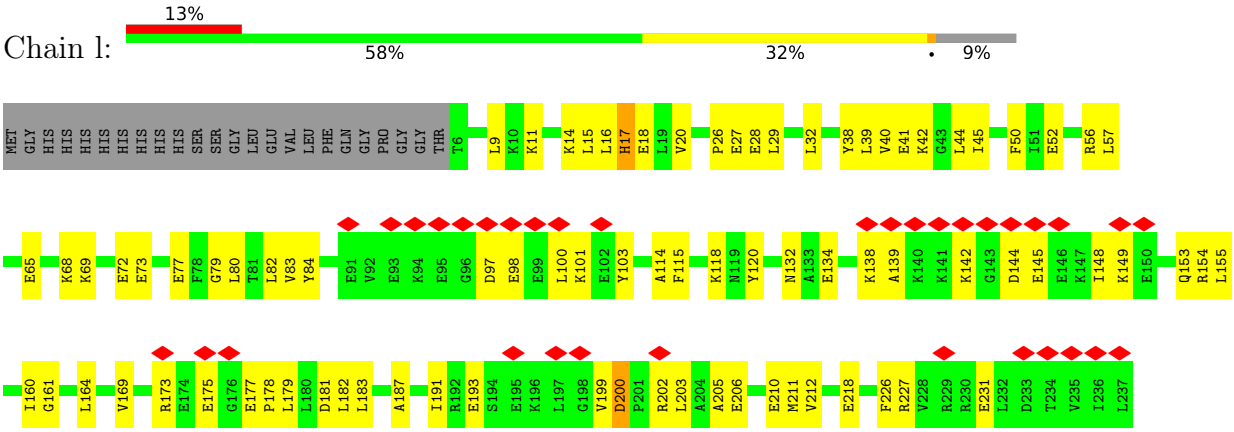


• Molecule 1: Cage-i53-Zn1-HEHE-14



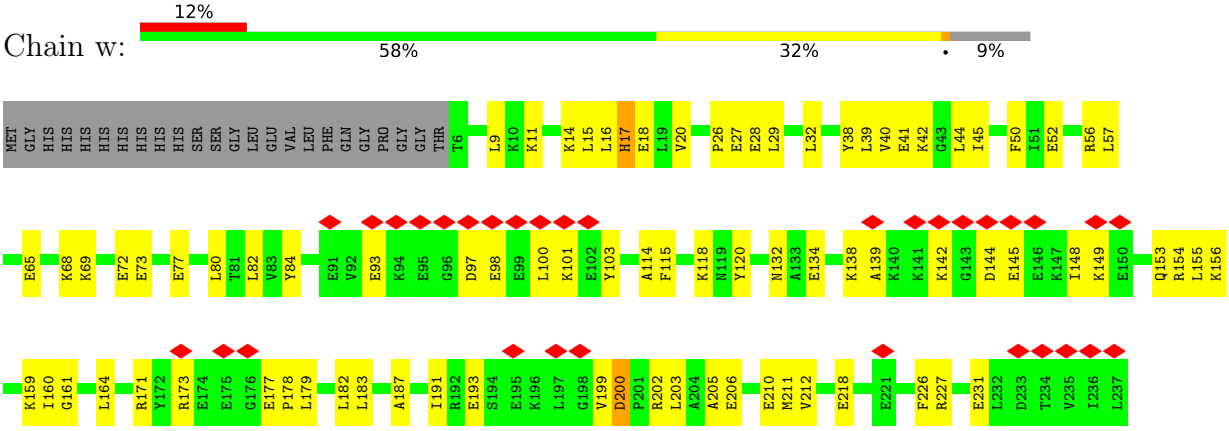
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain l:



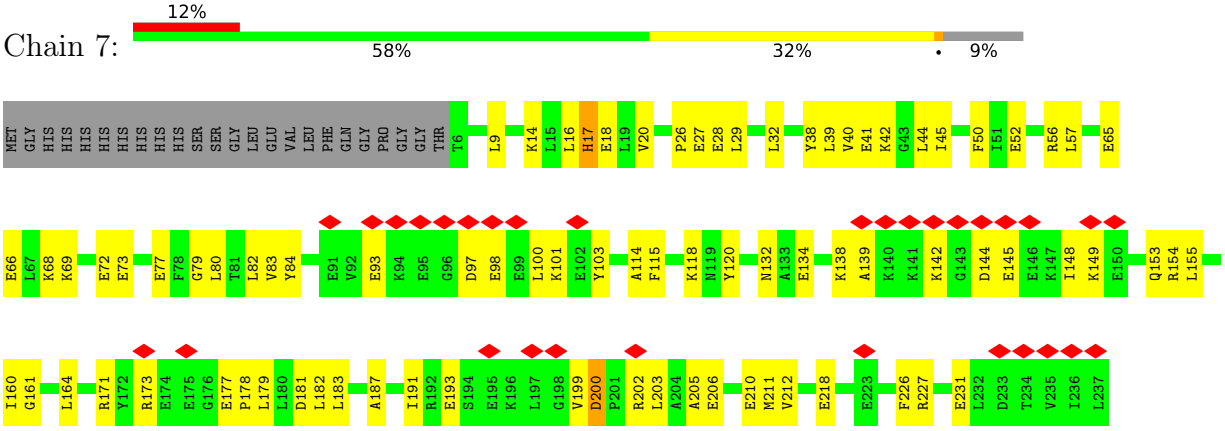
• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain w:



• Molecule 1: Cage-i53-Zn1-HEHE-14

Chain 7:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	121384	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	2.858	Depositor
Minimum map value	-1.486	Depositor
Average map value	0.003	Depositor
Map value standard deviation	0.112	Depositor
Recommended contour level	0.531	Depositor
Map size (Å)	387.82797, 387.82797, 387.82797	wwPDB
Map dimensions	360, 360, 360	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.0773, 1.0773, 1.0773	Depositor

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	0	0.24	0/1874	0.39	1/2516 (0.0%)
1	1	0.25	0/1874	0.39	1/2516 (0.0%)
1	2	0.24	0/1874	0.38	1/2516 (0.0%)
1	3	0.25	0/1874	0.39	1/2516 (0.0%)
1	4	0.24	0/1874	0.38	1/2516 (0.0%)
1	5	0.24	0/1874	0.38	1/2516 (0.0%)
1	6	0.25	0/1874	0.39	1/2516 (0.0%)
1	7	0.24	0/1874	0.38	1/2516 (0.0%)
1	A	0.24	0/1874	0.38	1/2516 (0.0%)
1	B	0.24	0/1874	0.38	1/2516 (0.0%)
1	C	0.24	0/1874	0.38	1/2516 (0.0%)
1	D	0.24	0/1874	0.39	1/2516 (0.0%)
1	E	0.24	0/1874	0.38	1/2516 (0.0%)
1	F	0.24	0/1874	0.38	1/2516 (0.0%)
1	G	0.24	0/1874	0.38	1/2516 (0.0%)
1	H	0.23	0/1874	0.38	1/2516 (0.0%)
1	I	0.25	0/1874	0.39	1/2516 (0.0%)
1	J	0.24	0/1874	0.38	1/2516 (0.0%)
1	K	0.24	0/1874	0.38	1/2516 (0.0%)
1	L	0.24	0/1874	0.38	1/2516 (0.0%)
1	M	0.24	0/1874	0.39	1/2516 (0.0%)
1	N	0.24	0/1874	0.38	1/2516 (0.0%)
1	O	0.24	0/1874	0.38	1/2516 (0.0%)
1	P	0.24	0/1874	0.38	1/2516 (0.0%)
1	Q	0.24	0/1874	0.38	1/2516 (0.0%)
1	R	0.25	0/1874	0.39	1/2516 (0.0%)
1	S	0.24	0/1874	0.38	1/2516 (0.0%)
1	T	0.24	0/1874	0.38	1/2516 (0.0%)
1	U	0.24	0/1874	0.38	1/2516 (0.0%)
1	V	0.25	0/1874	0.39	1/2516 (0.0%)
1	W	0.24	0/1874	0.38	1/2516 (0.0%)
1	X	0.24	0/1874	0.38	1/2516 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Y	0.24	0/1874	0.38	1/2516 (0.0%)
1	Z	0.24	0/1874	0.38	1/2516 (0.0%)
1	a	0.25	0/1874	0.39	1/2516 (0.0%)
1	b	0.25	0/1874	0.39	1/2516 (0.0%)
1	c	0.24	0/1874	0.38	1/2516 (0.0%)
1	d	0.24	0/1874	0.38	1/2516 (0.0%)
1	e	0.24	0/1874	0.38	1/2516 (0.0%)
1	f	0.24	0/1874	0.38	1/2516 (0.0%)
1	g	0.24	0/1874	0.38	1/2516 (0.0%)
1	h	0.24	0/1874	0.38	1/2516 (0.0%)
1	i	0.24	0/1874	0.38	1/2516 (0.0%)
1	j	0.25	0/1874	0.39	1/2516 (0.0%)
1	k	0.24	0/1874	0.38	1/2516 (0.0%)
1	l	0.24	0/1874	0.38	1/2516 (0.0%)
1	m	0.24	0/1874	0.38	1/2516 (0.0%)
1	n	0.24	0/1874	0.38	1/2516 (0.0%)
1	o	0.24	0/1874	0.39	1/2516 (0.0%)
1	p	0.24	0/1874	0.38	1/2516 (0.0%)
1	q	0.24	0/1874	0.38	1/2516 (0.0%)
1	r	0.24	0/1874	0.38	1/2516 (0.0%)
1	s	0.24	0/1874	0.38	1/2516 (0.0%)
1	t	0.24	0/1874	0.38	1/2516 (0.0%)
1	u	0.24	0/1874	0.38	1/2516 (0.0%)
1	v	0.24	0/1874	0.38	1/2516 (0.0%)
1	w	0.24	0/1874	0.38	1/2516 (0.0%)
1	x	0.24	0/1874	0.38	1/2516 (0.0%)
1	y	0.24	0/1874	0.38	1/2516 (0.0%)
1	z	0.24	0/1874	0.38	1/2516 (0.0%)
All	All	0.24	0/112440	0.38	60/150960 (0.0%)

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	z	17	HIS	N-CA-C	-6.13	104.29	110.97
1	e	17	HIS	N-CA-C	-6.11	104.31	110.97
1	3	17	HIS	N-CA-C	-6.10	104.32	110.97
1	N	17	HIS	N-CA-C	-6.10	104.32	110.97
1	5	17	HIS	N-CA-C	-6.10	104.32	110.97
1	E	17	HIS	N-CA-C	-6.10	104.32	110.97
1	0	17	HIS	N-CA-C	-6.10	104.32	110.97
1	v	17	HIS	N-CA-C	-6.10	104.32	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	17	HIS	N-CA-C	-6.09	104.33	110.97
1	c	17	HIS	N-CA-C	-6.09	104.33	110.97
1	K	17	HIS	N-CA-C	-6.09	104.33	110.97
1	M	17	HIS	N-CA-C	-6.09	104.34	110.97
1	y	17	HIS	N-CA-C	-6.08	104.34	110.97
1	2	17	HIS	N-CA-C	-6.08	104.34	110.97
1	k	17	HIS	N-CA-C	-6.08	104.34	110.97
1	A	17	HIS	N-CA-C	-6.08	104.34	110.97
1	G	17	HIS	N-CA-C	-6.08	104.34	110.97
1	H	17	HIS	N-CA-C	-6.08	104.34	110.97
1	g	17	HIS	N-CA-C	-6.08	104.34	110.97
1	i	17	HIS	N-CA-C	-6.08	104.34	110.97
1	f	17	HIS	N-CA-C	-6.08	104.34	110.97
1	C	17	HIS	N-CA-C	-6.08	104.35	110.97
1	F	17	HIS	N-CA-C	-6.08	104.35	110.97
1	d	17	HIS	N-CA-C	-6.08	104.35	110.97
1	7	17	HIS	N-CA-C	-6.08	104.35	110.97
1	1	17	HIS	N-CA-C	-6.07	104.35	110.97
1	P	17	HIS	N-CA-C	-6.07	104.35	110.97
1	p	17	HIS	N-CA-C	-6.07	104.36	110.97
1	4	17	HIS	N-CA-C	-6.07	104.36	110.97
1	L	17	HIS	N-CA-C	-6.06	104.36	110.97
1	D	17	HIS	N-CA-C	-6.06	104.36	110.97
1	o	17	HIS	N-CA-C	-6.06	104.36	110.97
1	w	17	HIS	N-CA-C	-6.06	104.36	110.97
1	j	17	HIS	N-CA-C	-6.06	104.36	110.97
1	n	17	HIS	N-CA-C	-6.06	104.37	110.97
1	I	17	HIS	N-CA-C	-6.05	104.37	110.97
1	h	17	HIS	N-CA-C	-6.05	104.37	110.97
1	l	17	HIS	N-CA-C	-6.05	104.37	110.97
1	x	17	HIS	N-CA-C	-6.05	104.37	110.97
1	S	17	HIS	N-CA-C	-6.05	104.38	110.97
1	q	17	HIS	N-CA-C	-6.05	104.38	110.97
1	u	17	HIS	N-CA-C	-6.04	104.38	110.97
1	O	17	HIS	N-CA-C	-6.04	104.38	110.97
1	J	17	HIS	N-CA-C	-6.04	104.38	110.97
1	t	17	HIS	N-CA-C	-6.04	104.39	110.97
1	b	17	HIS	N-CA-C	-6.04	104.39	110.97
1	r	17	HIS	N-CA-C	-6.03	104.39	110.97
1	X	17	HIS	N-CA-C	-6.03	104.40	110.97
1	m	17	HIS	N-CA-C	-6.03	104.40	110.97
1	s	17	HIS	N-CA-C	-6.03	104.40	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	17	HIS	N-CA-C	-6.03	104.40	110.97
1	W	17	HIS	N-CA-C	-6.02	104.41	110.97
1	B	17	HIS	N-CA-C	-6.01	104.41	110.97
1	R	17	HIS	N-CA-C	-6.01	104.41	110.97
1	V	17	HIS	N-CA-C	-6.01	104.41	110.97
1	a	17	HIS	N-CA-C	-6.01	104.41	110.97
1	U	17	HIS	N-CA-C	-6.00	104.43	110.97
1	T	17	HIS	N-CA-C	-5.98	104.45	110.97
1	Q	17	HIS	N-CA-C	-5.97	104.46	110.97
1	Y	17	HIS	N-CA-C	-5.97	104.47	110.97

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	1857	0	1954	71	0
1	1	1857	0	1954	69	0
1	2	1857	0	1954	73	0
1	3	1857	0	1954	68	0
1	4	1857	0	1954	70	0
1	5	1857	0	1954	71	0
1	6	1857	0	1954	69	0
1	7	1857	0	1954	70	0
1	A	1857	0	1954	69	0
1	B	1857	0	1954	70	0
1	C	1857	0	1954	70	0
1	D	1857	0	1954	69	0
1	E	1857	0	1954	71	0
1	F	1857	0	1954	68	0
1	G	1857	0	1954	71	0
1	H	1857	0	1954	66	0
1	I	1857	0	1954	68	0
1	J	1857	0	1954	72	0
1	K	1857	0	1954	72	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	1857	0	1954	71	0
1	M	1857	0	1954	68	0
1	N	1857	0	1954	68	0
1	O	1857	0	1954	69	0
1	P	1857	0	1954	72	0
1	Q	1857	0	1954	73	0
1	R	1857	0	1954	69	0
1	S	1857	0	1954	70	0
1	T	1857	0	1954	71	0
1	U	1857	0	1954	73	0
1	V	1857	0	1954	70	0
1	W	1857	0	1954	70	0
1	X	1857	0	1954	71	0
1	Y	1857	0	1954	71	0
1	Z	1857	0	1954	70	0
1	a	1857	0	1954	74	0
1	b	1857	0	1954	70	0
1	c	1857	0	1954	69	0
1	d	1857	0	1954	73	0
1	e	1857	0	1954	69	0
1	f	1857	0	1954	67	0
1	g	1857	0	1954	72	0
1	h	1857	0	1954	69	0
1	i	1857	0	1954	69	0
1	j	1857	0	1954	72	0
1	k	1857	0	1954	66	0
1	l	1857	0	1954	72	0
1	m	1857	0	1954	69	0
1	n	1857	0	1954	70	0
1	o	1857	0	1954	73	0
1	p	1857	0	1954	70	0
1	q	1857	0	1954	70	0
1	r	1857	0	1954	71	0
1	s	1857	0	1954	70	0
1	t	1857	0	1954	71	0
1	u	1857	0	1954	70	0
1	v	1857	0	1954	70	0
1	w	1857	0	1954	69	0
1	x	1857	0	1954	71	0
1	y	1857	0	1954	70	0
1	z	1857	0	1954	71	0
2	0	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	1	3	0	0	0	0
2	2	3	0	0	0	0
2	3	3	0	0	0	0
2	4	3	0	0	0	0
2	5	3	0	0	0	0
2	6	3	0	0	0	0
2	7	3	0	0	0	0
2	A	3	0	0	0	0
2	B	3	0	0	0	0
2	C	3	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
2	G	2	0	0	0	0
2	H	1	0	0	0	0
2	I	1	0	0	0	0
2	J	2	0	0	0	0
2	K	3	0	0	0	0
2	L	3	0	0	0	0
2	M	3	0	0	0	0
2	N	3	0	0	0	0
2	O	3	0	0	0	0
2	P	3	0	0	0	0
2	Q	2	0	0	0	0
2	R	2	0	0	0	0
2	S	2	0	0	0	0
2	T	3	0	0	0	0
2	U	2	0	0	0	0
2	V	2	0	0	0	0
2	W	2	0	0	0	0
2	X	2	0	0	0	0
2	Y	2	0	0	0	0
2	Z	2	0	0	0	0
2	a	2	0	0	0	0
2	b	1	0	0	0	0
2	c	1	0	0	0	0
2	d	1	0	0	0	0
2	e	1	0	0	0	0
2	f	2	0	0	0	0
2	g	3	0	0	0	0
2	h	2	0	0	0	0
2	i	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	j	1	0	0	0	0
2	k	1	0	0	0	0
2	l	3	0	0	0	0
2	m	1	0	0	0	0
2	n	1	0	0	0	0
2	o	1	0	0	0	0
2	p	1	0	0	0	0
2	q	1	0	0	0	0
2	r	2	0	0	0	0
2	s	2	0	0	0	0
2	t	1	0	0	0	0
2	u	1	0	0	0	0
2	v	1	0	0	0	0
2	w	1	0	0	0	0
2	x	1	0	0	0	0
2	y	1	0	0	0	0
2	z	1	0	0	0	0
All	All	111540	0	117240	3937	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 17.

All (3937) 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:j:202:ARG:NH2	1:j:236:ILE:O	2.21	0.73
1:s:226:PHE:CZ	1:3:231:GLU:HG3	2.26	0.71
1:D:226:PHE:CZ	1:E:231:GLU:HG3	2.26	0.71
1:p:226:PHE:CZ	1:0:231:GLU:HG3	2.26	0.71
1:u:226:PHE:CZ	1:5:231:GLU:HG3	2.26	0.71
1:w:226:PHE:CZ	1:7:231:GLU:HG3	2.26	0.71
1:n:226:PHE:CZ	1:y:231:GLU:HG3	2.26	0.71
1:t:226:PHE:CZ	1:4:231:GLU:HG3	2.26	0.71
1:m:226:PHE:CZ	1:x:231:GLU:HG3	2.26	0.70
1:r:226:PHE:CZ	1:2:231:GLU:HG3	2.26	0.70
1:v:226:PHE:CZ	1:6:231:GLU:HG3	2.26	0.70
1:o:226:PHE:CZ	1:z:231:GLU:HG3	2.26	0.70
1:W:226:PHE:CZ	1:h:231:GLU:HG3	2.27	0.70
1:q:226:PHE:CZ	1:1:231:GLU:HG3	2.26	0.69
1:X:226:PHE:CZ	1:i:231:GLU:HG3	2.27	0.69
1:Y:226:PHE:CZ	1:j:231:GLU:HG3	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:226:PHE:CZ	1:e:231:GLU:HG3	2.27	0.69
1:V:226:PHE:CZ	1:g:231:GLU:HG3	2.27	0.69
1:Z:226:PHE:CZ	1:k:231:GLU:HG3	2.27	0.69
1:S:226:PHE:CZ	1:d:231:GLU:HG3	2.27	0.69
1:U:226:PHE:CZ	1:f:231:GLU:HG3	2.27	0.69
1:a:226:PHE:CZ	1:l:231:GLU:HG3	2.27	0.69
1:R:226:PHE:CZ	1:c:231:GLU:HG3	2.27	0.68
1:B:226:PHE:CZ	1:C:231:GLU:HG3	2.27	0.68
1:F:226:PHE:CZ	1:Q:231:GLU:HG3	2.29	0.68
1:Q:226:PHE:CZ	1:b:231:GLU:HG3	2.27	0.68
1:L:226:PHE:CZ	1:W:231:GLU:HG3	2.29	0.68
1:I:231:GLU:HG3	1:0:226:PHE:CZ	2.29	0.68
1:e:226:PHE:CZ	1:p:231:GLU:HG3	2.29	0.68
1:f:226:PHE:CZ	1:q:231:GLU:HG3	2.29	0.68
1:M:226:PHE:CZ	1:X:231:GLU:HG3	2.29	0.68
1:P:226:PHE:CZ	1:a:231:GLU:HG3	2.29	0.68
1:H:226:PHE:CZ	1:S:231:GLU:HG3	2.29	0.68
1:M:231:GLU:HG3	1:4:226:PHE:CZ	2.29	0.68
1:O:226:PHE:CZ	1:Z:231:GLU:HG3	2.29	0.68
1:d:226:PHE:CZ	1:o:231:GLU:HG3	2.29	0.67
1:K:226:PHE:CZ	1:V:231:GLU:HG3	2.29	0.67
1:N:226:PHE:CZ	1:Y:231:GLU:HG3	2.29	0.67
1:h:226:PHE:CZ	1:s:231:GLU:HG3	2.29	0.67
1:A:231:GLU:HG3	1:E:226:PHE:CZ	2.29	0.67
1:c:226:PHE:CZ	1:n:231:GLU:HG3	2.29	0.67
1:A:226:PHE:CZ	1:B:231:GLU:HG3	2.29	0.67
1:k:226:PHE:CZ	1:v:231:GLU:HG3	2.29	0.67
1:F:231:GLU:HG3	1:x:226:PHE:CZ	2.29	0.67
1:b:226:PHE:CZ	1:m:231:GLU:HG3	2.29	0.67
1:J:226:PHE:CZ	1:U:231:GLU:HG3	2.29	0.67
1:j:226:PHE:CZ	1:u:231:GLU:HG3	2.29	0.67
1:C:226:PHE:CZ	1:D:231:GLU:HG3	2.29	0.67
1:G:226:PHE:CZ	1:R:231:GLU:HG3	2.29	0.67
1:I:226:PHE:CZ	1:T:231:GLU:HG3	2.29	0.67
1:J:231:GLU:HG3	1:1:226:PHE:CZ	2.29	0.67
1:G:231:GLU:HG3	1:y:226:PHE:CZ	2.29	0.67
1:L:231:GLU:HG3	1:3:226:PHE:CZ	2.29	0.67
1:P:231:GLU:HG3	1:7:226:PHE:CZ	2.29	0.67
1:O:231:GLU:HG3	1:6:226:PHE:CZ	2.29	0.67
1:g:226:PHE:CZ	1:r:231:GLU:HG3	2.29	0.67
1:l:226:PHE:CZ	1:w:231:GLU:HG3	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:231:GLU:HG3	1:2:226:PHE:CZ	2.29	0.66
1:H:231:GLU:HG3	1:z:226:PHE:CZ	2.29	0.66
1:N:231:GLU:HG3	1:5:226:PHE:CZ	2.29	0.66
1:p:177:GLU:HB3	1:p:178:PRO:HD2	1.77	0.66
1:F:177:GLU:HB3	1:F:178:PRO:HD2	1.78	0.66
1:i:226:PHE:CZ	1:t:231:GLU:HG3	2.29	0.66
1:7:177:GLU:HB3	1:7:178:PRO:HD2	1.78	0.66
1:f:177:GLU:HB3	1:f:178:PRO:HD2	1.79	0.65
1:k:177:GLU:HB3	1:k:178:PRO:HD2	1.78	0.65
1:y:177:GLU:HB3	1:y:178:PRO:HD2	1.78	0.65
1:S:177:GLU:HB3	1:S:178:PRO:HD2	1.78	0.65
1:h:177:GLU:HB3	1:h:178:PRO:HD2	1.78	0.65
1:B:177:GLU:HB3	1:B:178:PRO:HD2	1.78	0.64
1:t:177:GLU:HB3	1:t:178:PRO:HD2	1.78	0.64
1:2:177:GLU:HB3	1:2:178:PRO:HD2	1.78	0.64
1:N:177:GLU:HB3	1:N:178:PRO:HD2	1.78	0.64
1:h:92:VAL:HG12	1:h:101:LYS:HZ2	1.63	0.63
1:c:177:GLU:HB3	1:c:178:PRO:HD2	1.81	0.62
1:O:177:GLU:HB3	1:O:178:PRO:HD2	1.81	0.62
1:t:153:GLN:HB2	1:t:203:LEU:HD11	1.81	0.62
1:B:153:GLN:HB2	1:B:203:LEU:HD11	1.82	0.62
1:R:153:GLN:HB2	1:R:203:LEU:HD11	1.82	0.62
1:2:153:GLN:HB2	1:2:203:LEU:HD11	1.82	0.62
1:N:153:GLN:HB2	1:N:203:LEU:HD11	1.82	0.62
1:6:153:GLN:HB2	1:6:203:LEU:HD11	1.82	0.62
1:0:153:GLN:HB2	1:0:203:LEU:HD11	1.82	0.62
1:J:153:GLN:HB2	1:J:203:LEU:HD11	1.81	0.62
1:s:153:GLN:HB2	1:s:203:LEU:HD11	1.82	0.62
1:F:153:GLN:HB2	1:F:203:LEU:HD11	1.82	0.62
1:m:153:GLN:HB2	1:m:203:LEU:HD11	1.82	0.62
1:I:153:GLN:HB2	1:I:203:LEU:HD11	1.82	0.62
1:U:153:GLN:HB2	1:U:203:LEU:HD11	1.82	0.62
1:3:153:GLN:HB2	1:3:203:LEU:HD11	1.82	0.62
1:u:177:GLU:HB3	1:u:178:PRO:HD2	1.82	0.62
1:y:153:GLN:HB2	1:y:203:LEU:HD11	1.82	0.62
1:f:153:GLN:HB2	1:f:203:LEU:HD11	1.82	0.62
1:4:153:GLN:HB2	1:4:203:LEU:HD11	1.82	0.62
1:5:153:GLN:HB2	1:5:203:LEU:HD11	1.82	0.62
1:x:153:GLN:HB2	1:x:203:LEU:HD11	1.82	0.62
1:i:153:GLN:HB2	1:i:203:LEU:HD11	1.82	0.62
1:k:153:GLN:HB2	1:k:203:LEU:HD11	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:153:GLN:HB2	1:E:203:LEU:HD11	1.82	0.61
1:Y:153:GLN:HB2	1:Y:203:LEU:HD11	1.82	0.61
1:X:177:GLU:HB3	1:X:178:PRO:HD2	1.82	0.61
1:Q:153:GLN:HB2	1:Q:203:LEU:HD11	1.82	0.61
1:g:153:GLN:HB2	1:g:203:LEU:HD11	1.82	0.61
1:L:177:GLU:HB3	1:L:178:PRO:HD2	1.81	0.61
1:M:153:GLN:HB2	1:M:203:LEU:HD11	1.82	0.61
1:H:153:GLN:HB2	1:H:203:LEU:HD11	1.82	0.61
1:P:153:GLN:HB2	1:P:203:LEU:HD11	1.82	0.61
1:q:153:GLN:HB2	1:q:203:LEU:HD11	1.82	0.61
1:j:153:GLN:HB2	1:j:203:LEU:HD11	1.82	0.61
1:w:153:GLN:HB2	1:w:203:LEU:HD11	1.82	0.61
1:d:153:GLN:HB2	1:d:203:LEU:HD11	1.82	0.61
1:p:153:GLN:HB2	1:p:203:LEU:HD11	1.81	0.61
1:S:153:GLN:HB2	1:S:203:LEU:HD11	1.81	0.61
1:T:153:GLN:HB2	1:T:203:LEU:HD11	1.81	0.61
1:p:92:VAL:HG12	1:p:101:LYS:HZ2	1.65	0.61
1:g:177:GLU:HB3	1:g:178:PRO:HD2	1.81	0.61
1:h:153:GLN:HB2	1:h:203:LEU:HD11	1.82	0.61
1:L:153:GLN:HB2	1:L:203:LEU:HD11	1.82	0.61
1:7:153:GLN:HB2	1:7:203:LEU:HD11	1.82	0.61
1:n:153:GLN:HB2	1:n:203:LEU:HD11	1.82	0.61
1:1:153:GLN:HB2	1:1:203:LEU:HD11	1.82	0.61
1:r:153:GLN:HB2	1:r:203:LEU:HD11	1.82	0.61
1:Z:153:GLN:HB2	1:Z:203:LEU:HD11	1.81	0.61
1:v:153:GLN:HB2	1:v:203:LEU:HD11	1.82	0.61
1:G:153:GLN:HB2	1:G:203:LEU:HD11	1.82	0.61
1:X:153:GLN:HB2	1:X:203:LEU:HD11	1.81	0.61
1:u:153:GLN:HB2	1:u:203:LEU:HD11	1.82	0.61
1:O:153:GLN:HB2	1:O:203:LEU:HD11	1.82	0.61
1:A:153:GLN:HB2	1:A:203:LEU:HD11	1.82	0.60
1:m:177:GLU:HB3	1:m:178:PRO:HD2	1.81	0.60
1:T:177:GLU:HB3	1:T:178:PRO:HD2	1.82	0.60
1:E:177:GLU:HB3	1:E:178:PRO:HD2	1.82	0.60
1:b:153:GLN:HB2	1:b:203:LEU:HD11	1.82	0.60
1:c:153:GLN:HB2	1:c:203:LEU:HD11	1.82	0.60
1:l:153:GLN:HB2	1:l:203:LEU:HD11	1.82	0.60
1:e:153:GLN:HB2	1:e:203:LEU:HD11	1.82	0.60
1:C:153:GLN:HB2	1:C:203:LEU:HD11	1.82	0.60
1:D:153:GLN:HB2	1:D:203:LEU:HD11	1.82	0.60
1:z:153:GLN:HB2	1:z:203:LEU:HD11	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:177:GLU:HB3	1:z:178:PRO:HD2	1.81	0.60
1:J:177:GLU:HB3	1:J:178:PRO:HD2	1.82	0.60
1:K:153:GLN:HB2	1:K:203:LEU:HD11	1.82	0.60
1:W:153:GLN:HB2	1:W:203:LEU:HD11	1.82	0.60
1:V:153:GLN:HB2	1:V:203:LEU:HD11	1.81	0.60
1:4:161:GLY:HA3	1:4:211:MET:HE1	1.84	0.60
1:B:161:GLY:HA3	1:B:211:MET:HE1	1.84	0.60
1:D:161:GLY:HA3	1:D:211:MET:HE1	1.84	0.60
1:b:161:GLY:HA3	1:b:211:MET:HE1	1.84	0.60
1:1:161:GLY:HA3	1:1:211:MET:HE1	1.84	0.60
1:V:161:GLY:HA3	1:V:211:MET:HE1	1.84	0.60
1:Y:161:GLY:HA3	1:Y:211:MET:HE1	1.84	0.60
1:T:161:GLY:HA3	1:T:211:MET:HE1	1.84	0.60
1:e:153:GLN:HG2	1:e:199:VAL:HG22	1.84	0.60
1:2:161:GLY:HA3	1:2:211:MET:HE1	1.84	0.60
1:L:161:GLY:HA3	1:L:211:MET:HE1	1.84	0.60
1:W:153:GLN:HG2	1:W:199:VAL:HG22	1.84	0.60
1:D:153:GLN:HG2	1:D:199:VAL:HG22	1.84	0.60
1:m:161:GLY:HA3	1:m:211:MET:HE1	1.84	0.60
1:o:161:GLY:HA3	1:o:211:MET:HE1	1.84	0.60
1:p:161:GLY:HA3	1:p:211:MET:HE1	1.84	0.60
1:V:153:GLN:HG2	1:V:199:VAL:HG22	1.84	0.60
1:t:153:GLN:HG2	1:t:199:VAL:HG22	1.84	0.60
1:N:153:GLN:HG2	1:N:199:VAL:HG22	1.84	0.60
1:a:153:GLN:HB2	1:a:203:LEU:HD11	1.82	0.60
1:a:161:GLY:HA3	1:a:211:MET:HE1	1.84	0.60
1:w:153:GLN:HG2	1:w:199:VAL:HG22	1.84	0.60
1:C:153:GLN:HG2	1:C:199:VAL:HG22	1.84	0.60
1:J:161:GLY:HA3	1:J:211:MET:HE1	1.84	0.60
1:f:161:GLY:HA3	1:f:211:MET:HE1	1.84	0.60
1:h:161:GLY:HA3	1:h:211:MET:HE1	1.84	0.60
1:t:161:GLY:HA3	1:t:211:MET:HE1	1.84	0.60
1:N:161:GLY:HA3	1:N:211:MET:HE1	1.84	0.60
1:H:153:GLN:HG2	1:H:199:VAL:HG22	1.84	0.60
1:o:153:GLN:HB2	1:o:203:LEU:HD11	1.82	0.60
1:K:153:GLN:HG2	1:K:199:VAL:HG22	1.84	0.60
1:l:177:GLU:HB3	1:l:178:PRO:HD2	1.81	0.60
1:Q:161:GLY:HA3	1:Q:211:MET:HE1	1.84	0.59
1:b:153:GLN:HG2	1:b:199:VAL:HG22	1.84	0.59
1:R:161:GLY:HA3	1:R:211:MET:HE1	1.84	0.59
1:d:161:GLY:HA3	1:d:211:MET:HE1	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:153:GLN:HG2	1:Y:199:VAL:HG22	1.84	0.59
1:j:153:GLN:HG2	1:j:199:VAL:HG22	1.84	0.59
1:O:161:GLY:HA3	1:O:211:MET:HE1	1.84	0.59
1:Z:153:GLN:HG2	1:Z:199:VAL:HG22	1.84	0.59
1:6:161:GLY:HA3	1:6:211:MET:HE1	1.84	0.59
1:n:153:GLN:HG2	1:n:199:VAL:HG22	1.84	0.59
1:q:161:GLY:HA3	1:q:211:MET:HE1	1.84	0.59
1:1:153:GLN:HG2	1:1:199:VAL:HG22	1.84	0.59
1:M:153:GLN:HG2	1:M:199:VAL:HG22	1.84	0.59
1:4:153:GLN:HG2	1:4:199:VAL:HG22	1.84	0.59
1:P:161:GLY:HA3	1:P:211:MET:HE1	1.84	0.59
1:A:153:GLN:HG2	1:A:199:VAL:HG22	1.84	0.59
1:c:161:GLY:HA3	1:c:211:MET:HE1	1.84	0.59
1:h:153:GLN:HG2	1:h:199:VAL:HG22	1.84	0.59
1:j:177:GLU:HB3	1:j:178:PRO:HD2	1.84	0.59
1:l:161:GLY:HA3	1:l:211:MET:HE1	1.84	0.59
1:F:161:GLY:HA3	1:F:211:MET:HE1	1.84	0.59
1:m:153:GLN:HG2	1:m:199:VAL:HG22	1.84	0.59
1:z:161:GLY:HA3	1:z:211:MET:HE1	1.84	0.59
1:r:153:GLN:HG2	1:r:199:VAL:HG22	1.84	0.59
1:H:173:ARG:NH2	1:H:218:GLU:OE2	2.36	0.59
1:p:153:GLN:HG2	1:p:199:VAL:HG22	1.84	0.59
1:p:156:LYS:HA	1:p:159:LYS:HZ3	1.67	0.59
1:U:161:GLY:HA3	1:U:211:MET:HE1	1.84	0.59
1:3:177:GLU:HB3	1:3:178:PRO:HD2	1.84	0.59
1:5:177:GLU:HB3	1:5:178:PRO:HD2	1.84	0.59
1:e:177:GLU:HB3	1:e:178:PRO:HD2	1.85	0.59
1:p:173:ARG:NH2	1:p:218:GLU:OE2	2.36	0.59
1:J:153:GLN:HG2	1:J:199:VAL:HG22	1.84	0.59
1:q:153:GLN:HG2	1:q:199:VAL:HG22	1.84	0.59
1:W:173:ARG:NH2	1:W:218:GLU:OE2	2.36	0.59
1:h:173:ARG:NH2	1:h:218:GLU:OE2	2.36	0.59
1:Y:173:ARG:NH2	1:Y:218:GLU:OE2	2.36	0.59
1:w:173:ARG:NH2	1:w:218:GLU:OE2	2.36	0.59
1:A:177:GLU:HB3	1:A:178:PRO:HD2	1.85	0.59
1:C:161:GLY:HA3	1:C:211:MET:HE1	1.84	0.59
1:F:173:ARG:NH2	1:F:218:GLU:OE2	2.36	0.59
1:x:161:GLY:HA3	1:x:211:MET:HE1	1.84	0.59
1:R:153:GLN:HG2	1:R:199:VAL:HG22	1.84	0.59
1:I:173:ARG:NH2	1:I:218:GLU:OE2	2.36	0.59
1:e:161:GLY:HA3	1:e:211:MET:HE1	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:173:ARG:NH2	1:e:218:GLU:OE2	2.36	0.59
1:U:153:GLN:HG2	1:U:199:VAL:HG22	1.84	0.59
1:f:173:ARG:NH2	1:f:218:GLU:OE2	2.36	0.59
1:W:161:GLY:HA3	1:W:211:MET:HE1	1.84	0.59
1:k:153:GLN:HG2	1:k:199:VAL:HG22	1.84	0.59
1:6:153:GLN:HG2	1:6:199:VAL:HG22	1.84	0.59
1:Q:153:GLN:HG2	1:Q:199:VAL:HG22	1.84	0.59
1:y:153:GLN:HG2	1:y:199:VAL:HG22	1.84	0.59
1:U:202:ARG:O	1:U:205:ALA:N	2.35	0.59
1:K:161:GLY:HA3	1:K:211:MET:HE1	1.84	0.59
1:W:177:GLU:HB3	1:W:178:PRO:HD2	1.85	0.59
1:3:173:ARG:NH2	1:3:218:GLU:OE2	2.36	0.59
1:a:173:ARG:NH2	1:a:218:GLU:OE2	2.36	0.59
1:x:173:ARG:NH2	1:x:218:GLU:OE2	2.36	0.59
1:y:161:GLY:HA3	1:y:211:MET:HE1	1.84	0.59
1:o:173:ARG:NH2	1:o:218:GLU:OE2	2.36	0.59
1:I:153:GLN:HG2	1:I:199:VAL:HG22	1.84	0.59
1:U:173:ARG:NH2	1:U:218:GLU:OE2	2.36	0.59
1:f:153:GLN:HG2	1:f:199:VAL:HG22	1.84	0.59
1:L:153:GLN:HG2	1:L:199:VAL:HG22	1.84	0.59
1:X:153:GLN:HG2	1:X:199:VAL:HG22	1.84	0.59
1:O:173:ARG:NH2	1:O:218:GLU:OE2	2.36	0.59
1:Z:202:ARG:O	1:Z:205:ALA:N	2.35	0.59
1:A:161:GLY:HA3	1:A:211:MET:HE1	1.84	0.59
1:A:173:ARG:NH2	1:A:218:GLU:OE2	2.36	0.59
1:F:153:GLN:HG2	1:F:199:VAL:HG22	1.84	0.59
1:x:153:GLN:HG2	1:x:199:VAL:HG22	1.84	0.59
1:x:177:GLU:HB3	1:x:178:PRO:HD2	1.84	0.59
1:c:173:ARG:NH2	1:c:218:GLU:OE2	2.36	0.59
1:n:161:GLY:HA3	1:n:211:MET:HE1	1.84	0.59
1:z:153:GLN:HG2	1:z:199:VAL:HG22	1.84	0.59
1:z:173:ARG:NH2	1:z:218:GLU:OE2	2.36	0.59
1:T:153:GLN:HG2	1:T:199:VAL:HG22	1.84	0.59
1:r:161:GLY:HA3	1:r:211:MET:HE1	1.84	0.59
1:r:173:ARG:NH2	1:r:218:GLU:OE2	2.36	0.59
1:s:161:GLY:HA3	1:s:211:MET:HE1	1.84	0.59
1:3:153:GLN:HG2	1:3:199:VAL:HG22	1.84	0.59
1:i:173:ARG:NH2	1:i:218:GLU:OE2	2.36	0.59
1:i:202:ARG:O	1:i:205:ALA:N	2.36	0.59
1:4:173:ARG:NH2	1:4:218:GLU:OE2	2.36	0.59
1:Z:161:GLY:HA3	1:Z:211:MET:HE1	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:161:GLY:HA3	1:k:211:MET:HE1	1.84	0.59
1:v:161:GLY:HA3	1:v:211:MET:HE1	1.84	0.59
1:b:177:GLU:HB3	1:b:178:PRO:HD2	1.84	0.58
1:J:173:ARG:NH2	1:J:218:GLU:OE2	2.36	0.58
1:1:177:GLU:HB3	1:1:178:PRO:HD2	1.84	0.58
1:K:173:ARG:NH2	1:K:218:GLU:OE2	2.36	0.58
1:V:177:GLU:HB3	1:V:178:PRO:HD2	1.85	0.58
1:L:173:ARG:NH2	1:L:218:GLU:OE2	2.36	0.58
1:M:173:ARG:NH2	1:M:218:GLU:OE2	2.36	0.58
1:u:153:GLN:HG2	1:u:199:VAL:HG22	1.84	0.58
1:5:173:ARG:NH2	1:5:218:GLU:OE2	2.36	0.58
1:l:153:GLN:HG2	1:l:199:VAL:HG22	1.84	0.58
1:D:177:GLU:HB3	1:D:178:PRO:HD2	1.85	0.58
1:m:173:ARG:NH2	1:m:218:GLU:OE2	2.36	0.58
1:G:173:ARG:NH2	1:G:218:GLU:OE2	2.36	0.58
1:c:153:GLN:HG2	1:c:199:VAL:HG22	1.84	0.58
1:y:173:ARG:NH2	1:y:218:GLU:OE2	2.36	0.58
1:d:153:GLN:HG2	1:d:199:VAL:HG22	1.84	0.58
1:0:161:GLY:HA3	1:0:211:MET:HE1	1.84	0.58
1:N:173:ARG:NH2	1:N:218:GLU:OE2	2.36	0.58
1:k:173:ARG:NH2	1:k:218:GLU:OE2	2.36	0.58
1:v:173:ARG:NH2	1:v:218:GLU:OE2	2.36	0.58
1:P:153:GLN:HG2	1:P:199:VAL:HG22	1.84	0.58
1:l:173:ARG:NH2	1:l:218:GLU:OE2	2.36	0.58
1:B:173:ARG:NH2	1:B:218:GLU:OE2	2.36	0.58
1:G:161:GLY:HA3	1:G:211:MET:HE1	1.84	0.58
1:o:153:GLN:HG2	1:o:199:VAL:HG22	1.84	0.58
1:T:173:ARG:NH2	1:T:218:GLU:OE2	2.36	0.58
1:0:173:ARG:NH2	1:0:218:GLU:OE2	2.36	0.58
1:g:173:ARG:NH2	1:g:218:GLU:OE2	2.36	0.58
1:2:173:ARG:NH2	1:2:218:GLU:OE2	2.36	0.58
1:W:202:ARG:O	1:W:205:ALA:N	2.36	0.58
1:s:173:ARG:NH2	1:s:218:GLU:OE2	2.36	0.58
1:X:173:ARG:NH2	1:X:218:GLU:OE2	2.36	0.58
1:j:173:ARG:NH2	1:j:218:GLU:OE2	2.36	0.58
1:u:173:ARG:NH2	1:u:218:GLU:OE2	2.36	0.58
1:5:161:GLY:HA3	1:5:211:MET:HE1	1.84	0.58
1:C:173:ARG:NH2	1:C:218:GLU:OE2	2.36	0.58
1:E:173:ARG:NH2	1:E:218:GLU:OE2	2.36	0.58
1:Q:173:ARG:NH2	1:Q:218:GLU:OE2	2.36	0.58
1:q:173:ARG:NH2	1:q:218:GLU:OE2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:161:GLY:HA3	1:g:211:MET:HE1	1.84	0.58
1:s:153:GLN:HG2	1:s:199:VAL:HG22	1.84	0.58
1:i:177:GLU:HB3	1:i:178:PRO:HD2	1.85	0.58
1:t:173:ARG:NH2	1:t:218:GLU:OE2	2.36	0.58
1:j:161:GLY:HA3	1:j:211:MET:HE1	1.84	0.58
1:u:161:GLY:HA3	1:u:211:MET:HE1	1.84	0.58
1:a:153:GLN:HG2	1:a:199:VAL:HG22	1.84	0.58
1:E:161:GLY:HA3	1:E:211:MET:HE1	1.84	0.58
1:I:177:GLU:HB3	1:I:178:PRO:HD2	1.85	0.58
1:X:161:GLY:HA3	1:X:211:MET:HE1	1.84	0.58
1:i:161:GLY:HA3	1:i:211:MET:HE1	1.84	0.58
1:O:153:GLN:HG2	1:O:199:VAL:HG22	1.84	0.58
1:Z:177:GLU:HB3	1:Z:178:PRO:HD2	1.84	0.58
1:b:173:ARG:NH2	1:b:218:GLU:OE2	2.36	0.58
1:S:173:ARG:NH2	1:S:218:GLU:OE2	2.36	0.58
1:d:173:ARG:NH2	1:d:218:GLU:OE2	2.36	0.58
1:0:153:GLN:HG2	1:0:199:VAL:HG22	1.84	0.58
1:1:173:ARG:NH2	1:1:218:GLU:OE2	2.36	0.58
1:r:177:GLU:HB3	1:r:178:PRO:HD2	1.85	0.58
1:S:161:GLY:HA3	1:S:211:MET:HE1	1.84	0.58
1:I:161:GLY:HA3	1:I:211:MET:HE1	1.84	0.58
1:V:173:ARG:NH2	1:V:218:GLU:OE2	2.36	0.58
1:M:161:GLY:HA3	1:M:211:MET:HE1	1.84	0.58
1:5:202:ARG:O	1:5:205:ALA:N	2.36	0.58
1:P:173:ARG:NH2	1:P:218:GLU:OE2	2.36	0.58
1:7:173:ARG:NH2	1:7:218:GLU:OE2	2.36	0.58
1:Q:202:ARG:O	1:Q:205:ALA:N	2.37	0.58
1:G:153:GLN:HG2	1:G:199:VAL:HG22	1.84	0.58
1:n:173:ARG:NH2	1:n:218:GLU:OE2	2.36	0.58
1:3:161:GLY:HA3	1:3:211:MET:HE1	1.84	0.58
1:Z:173:ARG:NH2	1:Z:218:GLU:OE2	2.36	0.58
1:w:161:GLY:HA3	1:w:211:MET:HE1	1.84	0.58
1:7:161:GLY:HA3	1:7:211:MET:HE1	1.84	0.58
1:B:153:GLN:HG2	1:B:199:VAL:HG22	1.84	0.58
1:D:173:ARG:NH2	1:D:218:GLU:OE2	2.36	0.58
1:M:177:GLU:HB3	1:M:178:PRO:HD2	1.86	0.58
1:6:177:GLU:HB3	1:6:178:PRO:HD2	1.84	0.58
1:2:153:GLN:HG2	1:2:199:VAL:HG22	1.84	0.58
1:g:153:GLN:HG2	1:g:199:VAL:HG22	1.84	0.57
1:v:153:GLN:HG2	1:v:199:VAL:HG22	1.84	0.57
1:H:161:GLY:HA3	1:H:211:MET:HE1	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:153:GLN:HG2	1:i:199:VAL:HG22	1.84	0.57
1:5:153:GLN:HG2	1:5:199:VAL:HG22	1.84	0.57
1:E:153:GLN:HG2	1:E:199:VAL:HG22	1.84	0.57
1:x:202:ARG:O	1:x:205:ALA:N	2.37	0.57
1:R:173:ARG:NH2	1:R:218:GLU:OE2	2.36	0.57
1:R:177:GLU:HB3	1:R:178:PRO:HD2	1.85	0.57
1:S:153:GLN:HG2	1:S:199:VAL:HG22	1.84	0.57
1:w:202:ARG:O	1:w:205:ALA:N	2.37	0.57
1:n:177:GLU:HB3	1:n:178:PRO:HD2	1.85	0.57
1:n:202:ARG:O	1:n:205:ALA:N	2.37	0.57
1:H:177:GLU:HB3	1:H:178:PRO:HD2	1.85	0.57
1:7:153:GLN:HG2	1:7:199:VAL:HG22	1.84	0.57
1:o:177:GLU:HB3	1:o:178:PRO:HD2	1.84	0.57
1:U:177:GLU:HB3	1:U:178:PRO:HD2	1.85	0.57
1:K:202:ARG:O	1:K:205:ALA:N	2.37	0.57
1:Y:202:ARG:O	1:Y:205:ALA:N	2.36	0.57
1:6:173:ARG:NH2	1:6:218:GLU:OE2	2.36	0.57
1:w:177:GLU:HB3	1:w:178:PRO:HD2	1.85	0.57
1:G:202:ARG:O	1:G:205:ALA:N	2.38	0.57
1:e:202:ARG:O	1:e:205:ALA:N	2.37	0.57
1:q:202:ARG:O	1:q:205:ALA:N	2.38	0.57
1:P:202:ARG:O	1:P:205:ALA:N	2.38	0.57
1:A:202:ARG:O	1:A:205:ALA:N	2.36	0.57
1:a:177:GLU:HB3	1:a:178:PRO:HD2	1.85	0.57
1:r:202:ARG:O	1:r:205:ALA:N	2.37	0.56
1:d:177:GLU:HB3	1:d:178:PRO:HD2	1.87	0.56
1:d:202:ARG:O	1:d:205:ALA:N	2.38	0.56
1:z:93:GLU:HA	1:z:101:LYS:HZ1	1.69	0.56
1:G:177:GLU:HB3	1:G:178:PRO:HD2	1.88	0.56
1:v:177:GLU:HB3	1:v:178:PRO:HD2	1.88	0.56
1:P:177:GLU:HB3	1:P:178:PRO:HD2	1.87	0.56
1:C:202:ARG:O	1:C:205:ALA:N	2.38	0.56
1:c:93:GLU:HA	1:c:101:LYS:HZ1	1.70	0.56
1:e:179:LEU:HG	1:e:183:LEU:HD12	1.88	0.56
1:0:202:ARG:O	1:0:205:ALA:N	2.38	0.56
1:p:134:GLU:O	1:p:138:LYS:HG3	2.06	0.56
1:h:134:GLU:O	1:h:138:LYS:HG3	2.06	0.56
1:s:134:GLU:O	1:s:138:LYS:HG3	2.06	0.56
1:v:134:GLU:O	1:v:138:LYS:HG3	2.06	0.56
1:d:134:GLU:O	1:d:138:LYS:HG3	2.06	0.56
1:W:179:LEU:HG	1:W:183:LEU:HD12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:177:GLU:HB3	1:4:178:PRO:HD2	1.88	0.56
1:B:134:GLU:O	1:B:138:LYS:HG3	2.06	0.56
1:m:134:GLU:O	1:m:138:LYS:HG3	2.06	0.56
1:G:134:GLU:O	1:G:138:LYS:HG3	2.06	0.56
1:o:134:GLU:O	1:o:138:LYS:HG3	2.06	0.56
1:0:134:GLU:O	1:0:138:LYS:HG3	2.06	0.56
1:1:134:GLU:O	1:1:138:LYS:HG3	2.06	0.56
1:2:134:GLU:O	1:2:138:LYS:HG3	2.06	0.56
1:4:202:ARG:O	1:4:205:ALA:N	2.38	0.56
1:Y:177:GLU:HB3	1:Y:178:PRO:HD2	1.88	0.56
1:P:134:GLU:O	1:P:138:LYS:HG3	2.06	0.56
1:C:177:GLU:HB3	1:C:178:PRO:HD2	1.87	0.56
1:b:134:GLU:O	1:b:138:LYS:HG3	2.06	0.56
1:I:134:GLU:O	1:I:138:LYS:HG3	2.06	0.56
1:T:134:GLU:O	1:T:138:LYS:HG3	2.06	0.56
1:e:134:GLU:O	1:e:138:LYS:HG3	2.06	0.56
1:J:134:GLU:O	1:J:138:LYS:HG3	2.06	0.56
1:U:92:VAL:HG12	1:U:101:LYS:HZ2	1.70	0.56
1:L:134:GLU:O	1:L:138:LYS:HG3	2.06	0.56
1:3:134:GLU:O	1:3:138:LYS:HG3	2.06	0.56
1:t:134:GLU:O	1:t:138:LYS:HG3	2.06	0.56
1:6:134:GLU:O	1:6:138:LYS:HG3	2.06	0.56
1:a:134:GLU:O	1:a:138:LYS:HG3	2.06	0.56
1:R:134:GLU:O	1:R:138:LYS:HG3	2.06	0.56
1:S:134:GLU:O	1:S:138:LYS:HG3	2.06	0.56
1:K:177:GLU:HB3	1:K:178:PRO:HD2	1.88	0.56
1:r:179:LEU:HG	1:r:183:LEU:HD12	1.88	0.56
1:W:134:GLU:O	1:W:138:LYS:HG3	2.06	0.56
1:u:134:GLU:O	1:u:138:LYS:HG3	2.06	0.56
1:7:134:GLU:O	1:7:138:LYS:HG3	2.06	0.56
1:A:179:LEU:HG	1:A:183:LEU:HD12	1.88	0.56
1:c:134:GLU:O	1:c:138:LYS:HG3	2.06	0.56
1:N:134:GLU:O	1:N:138:LYS:HG3	2.06	0.56
1:C:134:GLU:O	1:C:138:LYS:HG3	2.06	0.55
1:E:134:GLU:O	1:E:138:LYS:HG3	2.06	0.55
1:H:202:ARG:O	1:H:205:ALA:N	2.39	0.55
1:z:134:GLU:O	1:z:138:LYS:HG3	2.06	0.55
1:0:177:GLU:HB3	1:0:182:LEU:HD11	1.88	0.55
1:K:134:GLU:O	1:K:138:LYS:HG3	2.06	0.55
1:V:134:GLU:O	1:V:138:LYS:HG3	2.06	0.55
1:g:134:GLU:O	1:g:138:LYS:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:20:VAL:HG21	1:X:27:GLU:HA	1.89	0.55
1:X:134:GLU:O	1:X:138:LYS:HG3	2.06	0.55
1:O:134:GLU:O	1:O:138:LYS:HG3	2.06	0.55
1:Z:179:LEU:HG	1:Z:183:LEU:HD12	1.88	0.55
1:l:134:GLU:O	1:l:138:LYS:HG3	2.06	0.55
1:D:134:GLU:O	1:D:138:LYS:HG3	2.06	0.55
1:F:134:GLU:O	1:F:138:LYS:HG3	2.06	0.55
1:n:179:LEU:HG	1:n:183:LEU:HD12	1.88	0.55
1:f:134:GLU:O	1:f:138:LYS:HG3	2.06	0.55
1:V:20:VAL:HG21	1:V:27:GLU:HA	1.88	0.55
1:D:20:VAL:HG21	1:D:27:GLU:HA	1.89	0.55
1:E:92:VAL:HG12	1:E:101:LYS:HZ2	1.71	0.55
1:y:134:GLU:O	1:y:138:LYS:HG3	2.06	0.55
1:i:134:GLU:O	1:i:138:LYS:HG3	2.06	0.55
1:j:134:GLU:O	1:j:138:LYS:HG3	2.06	0.55
1:u:20:VAL:HG21	1:u:27:GLU:HA	1.89	0.55
1:5:134:GLU:O	1:5:138:LYS:HG3	2.06	0.55
1:R:20:VAL:HG21	1:R:27:GLU:HA	1.89	0.55
1:n:20:VAL:HG21	1:n:27:GLU:HA	1.89	0.55
1:H:179:LEU:HG	1:H:183:LEU:HD12	1.88	0.55
1:M:134:GLU:O	1:M:138:LYS:HG3	2.06	0.55
1:6:20:VAL:HG21	1:6:27:GLU:HA	1.89	0.55
1:A:20:VAL:HG21	1:A:27:GLU:HA	1.89	0.55
1:Q:20:VAL:HG21	1:Q:27:GLU:HA	1.89	0.55
1:q:20:VAL:HG21	1:q:27:GLU:HA	1.89	0.55
1:5:179:LEU:HG	1:5:183:LEU:HD12	1.88	0.55
1:Z:20:VAL:HG21	1:Z:27:GLU:HA	1.89	0.55
1:k:134:GLU:O	1:k:138:LYS:HG3	2.06	0.55
1:B:20:VAL:HG21	1:B:27:GLU:HA	1.89	0.55
1:Q:177:GLU:HB3	1:Q:178:PRO:HD2	1.88	0.55
1:r:20:VAL:HG21	1:r:27:GLU:HA	1.89	0.55
1:2:20:VAL:HG21	1:2:27:GLU:HA	1.89	0.55
1:W:20:VAL:HG21	1:W:27:GLU:HA	1.89	0.55
1:w:179:LEU:HG	1:w:183:LEU:HD12	1.88	0.55
1:C:20:VAL:HG21	1:C:27:GLU:HA	1.89	0.55
1:H:134:GLU:O	1:H:138:LYS:HG3	2.06	0.55
1:z:20:VAL:HG21	1:z:27:GLU:HA	1.89	0.55
1:e:20:VAL:HG21	1:e:27:GLU:HA	1.89	0.55
1:4:134:GLU:O	1:4:138:LYS:HG3	2.06	0.55
1:l:20:VAL:HG21	1:l:27:GLU:HA	1.89	0.55
1:w:134:GLU:O	1:w:138:LYS:HG3	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:134:GLU:O	1:x:138:LYS:HG3	2.06	0.55
1:d:177:GLU:HB3	1:d:182:LEU:HD11	1.88	0.55
1:I:20:VAL:HG21	1:I:27:GLU:HA	1.89	0.55
1:0:177:GLU:HB3	1:0:178:PRO:HD2	1.88	0.55
1:q:177:GLU:HB3	1:q:182:LEU:HD11	1.88	0.55
1:3:20:VAL:HG21	1:3:27:GLU:HA	1.89	0.55
1:Y:134:GLU:O	1:Y:138:LYS:HG3	2.06	0.55
1:C:177:GLU:HB3	1:C:182:LEU:HD11	1.88	0.55
1:Q:177:GLU:HB3	1:Q:182:LEU:HD11	1.88	0.55
1:x:179:LEU:HG	1:x:183:LEU:HD12	1.87	0.55
1:S:20:VAL:HG21	1:S:27:GLU:HA	1.89	0.55
1:T:20:VAL:HG21	1:T:27:GLU:HA	1.89	0.55
1:q:177:GLU:HB3	1:q:178:PRO:HD2	1.88	0.55
1:K:20:VAL:HG21	1:K:27:GLU:HA	1.89	0.55
1:O:20:VAL:HG21	1:O:27:GLU:HA	1.89	0.55
1:P:177:GLU:HB3	1:P:182:LEU:HD11	1.88	0.55
1:A:134:GLU:O	1:A:138:LYS:HG3	2.06	0.55
1:c:20:VAL:HG21	1:c:27:GLU:HA	1.89	0.55
1:n:134:GLU:O	1:n:138:LYS:HG3	2.06	0.55
1:d:20:VAL:HG21	1:d:27:GLU:HA	1.89	0.55
1:J:93:GLU:HA	1:J:101:LYS:HZ1	1.72	0.55
1:U:134:GLU:O	1:U:138:LYS:HG3	2.06	0.55
1:r:134:GLU:O	1:r:138:LYS:HG3	2.06	0.55
1:i:179:LEU:HG	1:i:183:LEU:HD12	1.88	0.55
1:Z:134:GLU:O	1:Z:138:LYS:HG3	2.06	0.55
1:P:20:VAL:HG21	1:P:27:GLU:HA	1.89	0.55
1:a:20:VAL:HG21	1:a:27:GLU:HA	1.89	0.55
1:G:177:GLU:HB3	1:G:182:LEU:HD11	1.88	0.54
1:o:20:VAL:HG21	1:o:27:GLU:HA	1.89	0.54
1:p:20:VAL:HG21	1:p:27:GLU:HA	1.89	0.54
1:U:179:LEU:HG	1:U:183:LEU:HD12	1.88	0.54
1:K:177:GLU:HB3	1:K:182:LEU:HD11	1.88	0.54
1:L:20:VAL:HG21	1:L:27:GLU:HA	1.89	0.54
1:s:177:GLU:HB3	1:s:182:LEU:HD11	1.89	0.54
1:w:20:VAL:HG21	1:w:27:GLU:HA	1.89	0.54
1:7:20:VAL:HG21	1:7:27:GLU:HA	1.89	0.54
1:H:20:VAL:HG21	1:H:27:GLU:HA	1.89	0.54
1:q:134:GLU:O	1:q:138:LYS:HG3	2.06	0.54
1:2:202:ARG:O	1:2:205:ALA:N	2.40	0.54
1:s:177:GLU:HB3	1:s:178:PRO:HD2	1.88	0.54
1:M:20:VAL:HG21	1:M:27:GLU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:179:LEU:HG	1:M:183:LEU:HD12	1.89	0.54
1:j:20:VAL:HG21	1:j:27:GLU:HA	1.89	0.54
1:s:20:VAL:HG21	1:s:27:GLU:HA	1.89	0.54
1:4:20:VAL:HG21	1:4:27:GLU:HA	1.89	0.54
1:Y:20:VAL:HG21	1:Y:27:GLU:HA	1.89	0.54
1:Q:134:GLU:O	1:Q:138:LYS:HG3	2.06	0.54
1:x:20:VAL:HG21	1:x:27:GLU:HA	1.89	0.54
1:0:20:VAL:HG21	1:0:27:GLU:HA	1.89	0.54
1:U:20:VAL:HG21	1:U:27:GLU:HA	1.89	0.54
1:h:20:VAL:HG21	1:h:27:GLU:HA	1.89	0.54
1:t:20:VAL:HG21	1:t:27:GLU:HA	1.89	0.54
1:a:179:LEU:HG	1:a:183:LEU:HD12	1.90	0.54
1:B:202:ARG:O	1:B:205:ALA:N	2.40	0.54
1:T:202:ARG:O	1:T:205:ALA:N	2.41	0.54
1:i:20:VAL:HG21	1:i:27:GLU:HA	1.89	0.54
1:N:20:VAL:HG21	1:N:27:GLU:HA	1.89	0.54
1:v:20:VAL:HG21	1:v:27:GLU:HA	1.89	0.54
1:v:177:GLU:HB3	1:v:182:LEU:HD11	1.88	0.54
1:E:20:VAL:HG21	1:E:27:GLU:HA	1.89	0.54
1:o:179:LEU:HG	1:o:183:LEU:HD12	1.90	0.54
1:X:202:ARG:O	1:X:205:ALA:N	2.41	0.54
1:5:20:VAL:HG21	1:5:27:GLU:HA	1.89	0.54
1:m:20:VAL:HG21	1:m:27:GLU:HA	1.89	0.54
1:G:20:VAL:HG21	1:G:27:GLU:HA	1.89	0.54
1:S:202:ARG:O	1:S:205:ALA:N	2.41	0.54
1:j:179:LEU:HG	1:j:183:LEU:HD12	1.90	0.54
1:k:20:VAL:HG21	1:k:27:GLU:HA	1.89	0.54
1:y:20:VAL:HG21	1:y:27:GLU:HA	1.89	0.54
1:J:20:VAL:HG21	1:J:27:GLU:HA	1.89	0.54
1:g:20:VAL:HG21	1:g:27:GLU:HA	1.89	0.54
1:3:179:LEU:HG	1:3:183:LEU:HD12	1.89	0.54
1:b:179:LEU:HG	1:b:183:LEU:HD12	1.90	0.54
1:p:9:LEU:HB3	1:p:50:PHE:HE2	1.73	0.54
1:U:9:LEU:HB3	1:U:50:PHE:HE2	1.73	0.54
1:f:20:VAL:HG21	1:f:27:GLU:HA	1.89	0.54
1:1:179:LEU:HG	1:1:183:LEU:HD12	1.90	0.54
1:4:177:GLU:HB3	1:4:182:LEU:HD11	1.88	0.54
1:N:9:LEU:HB3	1:N:50:PHE:HE2	1.73	0.54
1:7:202:ARG:O	1:7:205:ALA:N	2.41	0.54
1:D:9:LEU:HB3	1:D:50:PHE:HE2	1.73	0.54
1:F:20:VAL:HG21	1:F:27:GLU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:20:VAL:HG21	1:b:27:GLU:HA	1.89	0.54
1:x:9:LEU:HB3	1:x:50:PHE:HE2	1.73	0.54
1:T:9:LEU:HB3	1:T:50:PHE:HE2	1.73	0.54
1:L:9:LEU:HB3	1:L:50:PHE:HE2	1.73	0.54
1:W:9:LEU:HB3	1:W:50:PHE:HE2	1.73	0.54
1:X:9:LEU:HB3	1:X:50:PHE:HE2	1.73	0.54
1:t:9:LEU:HB3	1:t:50:PHE:HE2	1.73	0.54
1:j:145:GLU:O	1:j:149:LYS:HG2	2.08	0.54
1:v:202:ARG:O	1:v:205:ALA:N	2.41	0.54
1:7:17:HIS:O	1:7:20:VAL:HG12	2.08	0.54
1:E:9:LEU:HB3	1:E:50:PHE:HE2	1.73	0.53
1:m:145:GLU:O	1:m:149:LYS:HG2	2.09	0.53
1:G:145:GLU:O	1:G:149:LYS:HG2	2.09	0.53
1:e:9:LEU:HB3	1:e:50:PHE:HE2	1.73	0.53
1:e:177:GLU:CB	1:e:182:LEU:HD11	2.38	0.53
1:J:145:GLU:O	1:J:149:LYS:HG2	2.09	0.53
1:1:20:VAL:HG21	1:1:27:GLU:HA	1.89	0.53
1:V:9:LEU:HB3	1:V:50:PHE:HE2	1.73	0.53
1:g:9:LEU:HB3	1:g:50:PHE:HE2	1.73	0.53
1:W:17:HIS:O	1:W:20:VAL:HG12	2.09	0.53
1:h:9:LEU:HB3	1:h:50:PHE:HE2	1.73	0.53
1:M:145:GLU:O	1:M:149:LYS:HG2	2.09	0.53
1:i:9:LEU:HB3	1:i:50:PHE:HE2	1.73	0.53
1:4:9:LEU:HB3	1:4:50:PHE:HE2	1.73	0.53
1:4:145:GLU:O	1:4:149:LYS:HG2	2.09	0.53
1:Y:9:LEU:HB3	1:Y:50:PHE:HE2	1.73	0.53
1:j:16:LEU:HD22	1:j:29:LEU:HD22	1.91	0.53
1:v:145:GLU:O	1:v:149:LYS:HG2	2.09	0.53
1:C:145:GLU:O	1:C:149:LYS:HG2	2.09	0.53
1:E:17:HIS:O	1:E:20:VAL:HG12	2.09	0.53
1:b:9:LEU:HB3	1:b:50:PHE:HE2	1.73	0.53
1:y:145:GLU:O	1:y:149:LYS:HG2	2.09	0.53
1:S:17:HIS:O	1:S:20:VAL:HG12	2.09	0.53
1:z:145:GLU:O	1:z:149:LYS:HG2	2.09	0.53
1:e:17:HIS:O	1:e:20:VAL:HG12	2.09	0.53
1:e:145:GLU:O	1:e:149:LYS:HG2	2.09	0.53
1:f:202:ARG:O	1:f:205:ALA:N	2.41	0.53
1:g:17:HIS:O	1:g:20:VAL:HG12	2.09	0.53
1:W:145:GLU:O	1:W:149:LYS:HG2	2.08	0.53
1:i:16:LEU:HD22	1:i:29:LEU:HD22	1.91	0.53
1:4:16:LEU:HD22	1:4:29:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:145:GLU:O	1:Y:149:LYS:HG2	2.09	0.53
1:u:9:LEU:HB3	1:u:50:PHE:HE2	1.73	0.53
1:5:9:LEU:HB3	1:5:50:PHE:HE2	1.73	0.53
1:5:16:LEU:HD22	1:5:29:LEU:HD22	1.91	0.53
1:w:177:GLU:CB	1:w:182:LEU:HD11	2.39	0.53
1:A:16:LEU:HD22	1:A:29:LEU:HD22	1.91	0.53
1:B:16:LEU:HD22	1:B:29:LEU:HD22	1.91	0.53
1:m:93:GLU:HA	1:m:101:LYS:HZ1	1.73	0.53
1:c:179:LEU:HG	1:c:183:LEU:HD12	1.91	0.53
1:y:202:ARG:O	1:y:205:ALA:N	2.41	0.53
1:o:17:HIS:O	1:o:20:VAL:HG12	2.09	0.53
1:p:17:HIS:O	1:p:20:VAL:HG12	2.09	0.53
1:0:17:HIS:O	1:0:20:VAL:HG12	2.09	0.53
1:K:145:GLU:O	1:K:149:LYS:HG2	2.09	0.53
1:g:178:PRO:O	1:g:182:LEU:HD12	2.09	0.53
1:r:16:LEU:HD22	1:r:29:LEU:HD22	1.91	0.53
1:2:17:HIS:O	1:2:20:VAL:HG12	2.09	0.53
1:h:16:LEU:HD22	1:h:29:LEU:HD22	1.91	0.53
1:h:17:HIS:O	1:h:20:VAL:HG12	2.09	0.53
1:s:17:HIS:O	1:s:20:VAL:HG12	2.09	0.53
1:Y:177:GLU:HB3	1:Y:182:LEU:HD11	1.88	0.53
1:k:17:HIS:O	1:k:20:VAL:HG12	2.09	0.53
1:k:145:GLU:O	1:k:149:LYS:HG2	2.09	0.53
1:a:17:HIS:O	1:a:20:VAL:HG12	2.09	0.53
1:l:145:GLU:O	1:l:149:LYS:HG2	2.09	0.53
1:B:17:HIS:O	1:B:20:VAL:HG12	2.09	0.53
1:C:17:HIS:O	1:C:20:VAL:HG12	2.09	0.53
1:E:16:LEU:HD22	1:E:29:LEU:HD22	1.91	0.53
1:y:17:HIS:O	1:y:20:VAL:HG12	2.09	0.53
1:H:200:ASP:OD2	1:H:200:ASP:N	2.35	0.53
1:T:16:LEU:HD22	1:T:29:LEU:HD22	1.91	0.53
1:T:145:GLU:O	1:T:149:LYS:HG2	2.09	0.53
1:p:16:LEU:HD22	1:p:29:LEU:HD22	1.91	0.53
1:1:9:LEU:HB3	1:1:50:PHE:HE2	1.73	0.53
1:K:17:HIS:O	1:K:20:VAL:HG12	2.08	0.53
1:V:16:LEU:HD22	1:V:29:LEU:HD22	1.91	0.53
1:2:9:LEU:HB3	1:2:50:PHE:HE2	1.73	0.53
1:2:16:LEU:HD22	1:2:29:LEU:HD22	1.91	0.53
1:L:145:GLU:O	1:L:149:LYS:HG2	2.09	0.53
1:h:202:ARG:O	1:h:205:ALA:N	2.41	0.53
1:s:93:GLU:HA	1:s:101:LYS:HZ1	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:145:GLU:O	1:s:149:LYS:HG2	2.09	0.53
1:4:17:HIS:O	1:4:20:VAL:HG12	2.09	0.53
1:Y:16:LEU:HD22	1:Y:29:LEU:HD22	1.91	0.53
1:Y:17:HIS:O	1:Y:20:VAL:HG12	2.09	0.53
1:6:145:GLU:O	1:6:149:LYS:HG2	2.08	0.53
1:P:93:GLU:HA	1:P:101:LYS:HZ2	1.73	0.53
1:B:9:LEU:HB3	1:B:50:PHE:HE2	1.73	0.53
1:0:145:GLU:O	1:0:149:LYS:HG2	2.09	0.53
1:f:16:LEU:HD22	1:f:29:LEU:HD22	1.91	0.53
1:g:16:LEU:HD22	1:g:29:LEU:HD22	1.91	0.53
1:W:177:GLU:CB	1:W:182:LEU:HD11	2.39	0.53
1:M:16:LEU:HD22	1:M:29:LEU:HD22	1.91	0.53
1:X:145:GLU:O	1:X:149:LYS:HG2	2.09	0.53
1:u:145:GLU:O	1:u:149:LYS:HG2	2.09	0.53
1:O:179:LEU:HG	1:O:183:LEU:HD12	1.91	0.53
1:7:9:LEU:HB3	1:7:50:PHE:HE2	1.73	0.53
1:C:200:ASP:OD2	1:C:200:ASP:N	2.42	0.53
1:D:16:LEU:HD22	1:D:29:LEU:HD22	1.91	0.53
1:F:16:LEU:HD22	1:F:29:LEU:HD22	1.91	0.53
1:Q:9:LEU:HB3	1:Q:50:PHE:HE2	1.73	0.53
1:x:145:GLU:O	1:x:149:LYS:HG2	2.09	0.53
1:G:16:LEU:HD22	1:G:29:LEU:HD22	1.91	0.53
1:H:17:HIS:O	1:H:20:VAL:HG12	2.09	0.53
1:H:177:GLU:CB	1:H:182:LEU:HD11	2.39	0.53
1:S:9:LEU:HB3	1:S:50:PHE:HE2	1.73	0.53
1:d:93:GLU:HA	1:d:101:LYS:HZ2	1.74	0.53
1:U:17:HIS:CE1	1:K:45:ILE:HG21	2.43	0.53
1:f:179:LEU:HG	1:f:183:LEU:HD12	1.91	0.53
1:K:200:ASP:OD2	1:K:200:ASP:N	2.42	0.53
1:g:145:GLU:O	1:g:149:LYS:HG2	2.08	0.53
1:g:179:LEU:HG	1:g:183:LEU:HD12	1.91	0.53
1:L:16:LEU:HD22	1:L:29:LEU:HD22	1.91	0.53
1:s:9:LEU:HB3	1:s:50:PHE:HE2	1.73	0.53
1:t:16:LEU:HD22	1:t:29:LEU:HD22	1.91	0.53
1:O:145:GLU:O	1:O:149:LYS:HG2	2.08	0.53
1:k:202:ARG:O	1:k:205:ALA:N	2.42	0.53
1:a:9:LEU:HB3	1:a:50:PHE:HE2	1.73	0.53
1:w:145:GLU:O	1:w:149:LYS:HG2	2.09	0.53
1:E:145:GLU:O	1:E:149:LYS:HG2	2.09	0.53
1:F:9:LEU:HB3	1:F:50:PHE:HE2	1.73	0.53
1:F:17:HIS:O	1:F:20:VAL:HG12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:179:LEU:HG	1:F:183:LEU:HD12	1.91	0.53
1:x:17:HIS:O	1:x:20:VAL:HG12	2.09	0.53
1:R:145:GLU:O	1:R:149:LYS:HG2	2.09	0.53
1:c:16:LEU:HD22	1:c:29:LEU:HD22	1.91	0.53
1:n:145:GLU:O	1:n:149:LYS:HG2	2.09	0.53
1:H:9:LEU:HB3	1:H:50:PHE:HE2	1.73	0.53
1:H:145:GLU:O	1:H:149:LYS:HG2	2.08	0.53
1:z:17:HIS:O	1:z:20:VAL:HG12	2.09	0.53
1:J:178:PRO:O	1:J:182:LEU:HD12	2.09	0.53
1:U:17:HIS:O	1:U:20:VAL:HG12	2.09	0.53
1:f:17:HIS:O	1:f:20:VAL:HG12	2.09	0.53
1:V:145:GLU:O	1:V:149:LYS:HG2	2.09	0.53
1:g:92:VAL:HG12	1:g:101:LYS:HZ2	1.73	0.53
1:t:145:GLU:O	1:t:149:LYS:HG2	2.09	0.53
1:N:16:LEU:HD22	1:N:29:LEU:HD22	1.91	0.53
1:Z:17:HIS:O	1:Z:20:VAL:HG12	2.09	0.53
1:6:17:HIS:O	1:6:20:VAL:HG12	2.09	0.53
1:l:17:HIS:O	1:l:20:VAL:HG12	2.09	0.53
1:w:9:LEU:HB3	1:w:50:PHE:HE2	1.73	0.53
1:D:17:HIS:O	1:D:20:VAL:HG12	2.09	0.53
1:D:145:GLU:O	1:D:149:LYS:HG2	2.09	0.53
1:E:202:ARG:O	1:E:205:ALA:N	2.42	0.53
1:Q:17:HIS:O	1:Q:20:VAL:HG12	2.09	0.53
1:m:178:PRO:O	1:m:182:LEU:HD12	2.09	0.53
1:R:17:HIS:O	1:R:20:VAL:HG12	2.09	0.53
1:c:9:LEU:HB3	1:c:50:PHE:HE2	1.73	0.53
1:c:145:GLU:O	1:c:149:LYS:HG2	2.08	0.53
1:n:9:LEU:HB3	1:n:50:PHE:HE2	1.73	0.53
1:n:16:LEU:HD22	1:n:29:LEU:HD22	1.91	0.53
1:o:16:LEU:HD22	1:o:29:LEU:HD22	1.91	0.53
1:z:9:LEU:HB3	1:z:50:PHE:HE2	1.73	0.53
1:U:145:GLU:O	1:U:149:LYS:HG2	2.09	0.53
1:U:177:GLU:CB	1:U:182:LEU:HD11	2.39	0.53
1:f:9:LEU:HB3	1:f:50:PHE:HE2	1.73	0.53
1:q:9:LEU:HB3	1:q:50:PHE:HE2	1.73	0.53
1:L:178:PRO:O	1:L:182:LEU:HD12	2.08	0.53
1:N:145:GLU:O	1:N:149:LYS:HG2	2.09	0.53
1:5:17:HIS:O	1:5:20:VAL:HG12	2.09	0.53
1:Z:145:GLU:O	1:Z:149:LYS:HG2	2.09	0.53
1:v:16:LEU:HD22	1:v:29:LEU:HD22	1.91	0.53
1:l:9:LEU:HB3	1:l:50:PHE:HE2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:17:HIS:O	1:w:20:VAL:HG12	2.09	0.53
1:F:202:ARG:O	1:F:205:ALA:N	2.41	0.53
1:Q:200:ASP:OD2	1:Q:200:ASP:N	2.42	0.53
1:m:17:HIS:O	1:m:20:VAL:HG12	2.09	0.53
1:n:17:HIS:O	1:n:20:VAL:HG12	2.09	0.53
1:y:16:LEU:HD22	1:y:29:LEU:HD22	1.91	0.53
1:o:9:LEU:HB3	1:o:50:PHE:HE2	1.73	0.53
1:o:14:LYS:O	1:o:18:GLU:HG2	2.09	0.53
1:I:145:GLU:O	1:I:149:LYS:HG2	2.09	0.53
1:I:179:LEU:HG	1:I:183:LEU:HD12	1.90	0.53
1:0:9:LEU:HB3	1:0:50:PHE:HE2	1.73	0.53
1:J:17:HIS:O	1:J:20:VAL:HG12	2.08	0.53
1:q:45:ILE:HG21	1:Z:17:HIS:CE1	2.44	0.53
1:V:17:HIS:O	1:V:20:VAL:HG12	2.09	0.53
1:3:145:GLU:O	1:3:149:LYS:HG2	2.08	0.53
1:X:17:HIS:CE1	1:5:45:ILE:HG21	2.44	0.53
1:i:17:HIS:CE1	1:P:45:ILE:HG21	2.44	0.53
1:u:17:HIS:O	1:u:20:VAL:HG12	2.09	0.53
1:O:9:LEU:HB3	1:O:50:PHE:HE2	1.73	0.53
1:O:16:LEU:HD22	1:O:29:LEU:HD22	1.91	0.53
1:Z:16:LEU:HD22	1:Z:29:LEU:HD22	1.91	0.53
1:k:16:LEU:HD22	1:k:29:LEU:HD22	1.91	0.53
1:a:14:LYS:O	1:a:18:GLU:HG2	2.09	0.53
1:a:16:LEU:HD22	1:a:29:LEU:HD22	1.91	0.53
1:C:16:LEU:HD22	1:C:29:LEU:HD22	1.91	0.53
1:b:17:HIS:O	1:b:20:VAL:HG12	2.09	0.53
1:o:145:GLU:O	1:o:149:LYS:HG2	2.09	0.53
1:I:9:LEU:HB3	1:I:50:PHE:HE2	1.73	0.53
1:p:14:LYS:O	1:p:18:GLU:HG2	2.09	0.53
1:p:145:GLU:O	1:p:149:LYS:HG2	2.09	0.53
1:0:200:ASP:OD2	1:0:200:ASP:N	2.42	0.53
1:J:9:LEU:HB3	1:J:50:PHE:HE2	1.73	0.53
1:1:145:GLU:O	1:1:149:LYS:HG2	2.09	0.53
1:V:179:LEU:HG	1:V:183:LEU:HD12	1.90	0.53
1:r:206:GLU:O	1:r:210:GLU:HG3	2.09	0.53
1:2:145:GLU:O	1:2:149:LYS:HG2	2.09	0.53
1:W:17:HIS:CE1	1:4:45:ILE:HG21	2.44	0.53
1:h:14:LYS:O	1:h:18:GLU:HG2	2.09	0.53
1:3:9:LEU:HB3	1:3:50:PHE:HE2	1.73	0.53
1:3:17:HIS:O	1:3:20:VAL:HG12	2.09	0.53
1:i:17:HIS:O	1:i:20:VAL:HG12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:14:LYS:O	1:t:18:GLU:HG2	2.09	0.53
1:j:17:HIS:O	1:j:20:VAL:HG12	2.09	0.53
1:5:177:GLU:CB	1:5:182:LEU:HD11	2.39	0.53
1:Z:9:LEU:HB3	1:Z:50:PHE:HE2	1.73	0.53
1:k:179:LEU:HG	1:k:183:LEU:HD12	1.91	0.53
1:7:16:LEU:HD22	1:7:29:LEU:HD22	1.91	0.53
1:A:206:GLU:O	1:A:210:GLU:HG3	2.10	0.52
1:B:14:LYS:O	1:B:18:GLU:HG2	2.09	0.52
1:D:179:LEU:HG	1:D:183:LEU:HD12	1.90	0.52
1:E:178:PRO:O	1:E:182:LEU:HD12	2.10	0.52
1:E:179:LEU:HG	1:E:183:LEU:HD12	1.92	0.52
1:F:145:GLU:O	1:F:149:LYS:HG2	2.08	0.52
1:b:145:GLU:O	1:b:149:LYS:HG2	2.09	0.52
1:m:9:LEU:HB3	1:m:50:PHE:HE2	1.73	0.52
1:m:16:LEU:HD22	1:m:29:LEU:HD22	1.91	0.52
1:y:179:LEU:HG	1:y:183:LEU:HD12	1.91	0.52
1:d:14:LYS:O	1:d:18:GLU:HG2	2.09	0.52
1:I:14:LYS:O	1:I:18:GLU:HG2	2.09	0.52
1:I:16:LEU:HD22	1:I:29:LEU:HD22	1.91	0.52
1:I:17:HIS:O	1:I:20:VAL:HG12	2.09	0.52
1:q:17:HIS:O	1:q:20:VAL:HG12	2.09	0.52
1:K:16:LEU:HD22	1:K:29:LEU:HD22	1.91	0.52
1:r:177:GLU:CB	1:r:182:LEU:HD11	2.39	0.52
1:2:14:LYS:O	1:2:18:GLU:HG2	2.09	0.52
1:L:206:GLU:O	1:L:210:GLU:HG3	2.10	0.52
1:h:145:GLU:O	1:h:149:LYS:HG2	2.09	0.52
1:s:206:GLU:O	1:s:210:GLU:HG3	2.10	0.52
1:M:17:HIS:O	1:M:20:VAL:HG12	2.08	0.52
1:X:17:HIS:O	1:X:20:VAL:HG12	2.09	0.52
1:i:177:GLU:CB	1:i:182:LEU:HD11	2.39	0.52
1:N:14:LYS:O	1:N:18:GLU:HG2	2.10	0.52
1:j:9:LEU:HB3	1:j:50:PHE:HE2	1.73	0.52
1:u:179:LEU:HG	1:u:183:LEU:HD12	1.91	0.52
1:5:145:GLU:O	1:5:149:LYS:HG2	2.09	0.52
1:v:9:LEU:HB3	1:v:50:PHE:HE2	1.73	0.52
1:P:14:LYS:O	1:P:18:GLU:HG2	2.09	0.52
1:A:93:GLU:HA	1:A:101:LYS:HZ2	1.74	0.52
1:B:145:GLU:O	1:B:149:LYS:HG2	2.09	0.52
1:R:14:LYS:O	1:R:18:GLU:HG2	2.09	0.52
1:c:178:PRO:O	1:c:182:LEU:HD12	2.08	0.52
1:n:177:GLU:CB	1:n:182:LEU:HD11	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:16:LEU:HD22	1:S:29:LEU:HD22	1.91	0.52
1:z:206:GLU:O	1:z:210:GLU:HG3	2.10	0.52
1:T:206:GLU:O	1:T:210:GLU:HG3	2.10	0.52
1:0:16:LEU:HD22	1:0:29:LEU:HD22	1.91	0.52
1:0:206:GLU:O	1:0:210:GLU:HG3	2.10	0.52
1:f:145:GLU:O	1:f:149:LYS:HG2	2.09	0.52
1:V:206:GLU:O	1:V:210:GLU:HG3	2.10	0.52
1:3:14:LYS:O	1:3:18:GLU:HG2	2.10	0.52
1:3:16:LEU:HD22	1:3:29:LEU:HD22	1.91	0.52
1:M:9:LEU:HB3	1:M:50:PHE:HE2	1.73	0.52
1:M:14:LYS:O	1:M:18:GLU:HG2	2.10	0.52
1:i:145:GLU:O	1:i:149:LYS:HG2	2.09	0.52
1:N:17:HIS:O	1:N:20:VAL:HG12	2.09	0.52
1:j:14:LYS:O	1:j:18:GLU:HG2	2.10	0.52
1:u:206:GLU:O	1:u:210:GLU:HG3	2.10	0.52
1:a:145:GLU:O	1:a:149:LYS:HG2	2.09	0.52
1:l:178:PRO:O	1:l:182:LEU:HD12	2.08	0.52
1:D:206:GLU:O	1:D:210:GLU:HG3	2.10	0.52
1:G:9:LEU:HB3	1:G:50:PHE:HE2	1.73	0.52
1:G:14:LYS:O	1:G:18:GLU:HG2	2.09	0.52
1:I:200:ASP:OD2	1:I:200:ASP:N	2.42	0.52
1:f:206:GLU:O	1:f:210:GLU:HG3	2.10	0.52
1:q:16:LEU:HD22	1:q:29:LEU:HD22	1.91	0.52
1:1:17:HIS:O	1:1:20:VAL:HG12	2.09	0.52
1:r:145:GLU:O	1:r:149:LYS:HG2	2.08	0.52
1:2:206:GLU:O	1:2:210:GLU:HG3	2.10	0.52
1:L:202:ARG:O	1:L:205:ALA:N	2.43	0.52
1:s:16:LEU:HD22	1:s:29:LEU:HD22	1.91	0.52
1:M:206:GLU:O	1:M:210:GLU:HG3	2.10	0.52
1:X:206:GLU:O	1:X:210:GLU:HG3	2.10	0.52
1:i:206:GLU:O	1:i:210:GLU:HG3	2.10	0.52
1:5:206:GLU:O	1:5:210:GLU:HG3	2.10	0.52
1:v:14:LYS:O	1:v:18:GLU:HG2	2.09	0.52
1:6:9:LEU:HB3	1:6:50:PHE:HE2	1.73	0.52
1:6:14:LYS:O	1:6:18:GLU:HG2	2.10	0.52
1:P:17:HIS:O	1:P:20:VAL:HG12	2.08	0.52
1:P:206:GLU:O	1:P:210:GLU:HG3	2.09	0.52
1:l:206:GLU:O	1:l:210:GLU:HG3	2.10	0.52
1:A:17:HIS:O	1:A:20:VAL:HG12	2.09	0.52
1:A:145:GLU:O	1:A:149:LYS:HG2	2.09	0.52
1:B:206:GLU:O	1:B:210:GLU:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:206:GLU:O	1:C:210:GLU:HG3	2.10	0.52
1:Q:16:LEU:HD22	1:Q:29:LEU:HD22	1.91	0.52
1:b:14:LYS:O	1:b:18:GLU:HG2	2.09	0.52
1:x:14:LYS:O	1:x:18:GLU:HG2	2.09	0.52
1:R:206:GLU:O	1:R:210:GLU:HG3	2.10	0.52
1:H:16:LEU:HD22	1:H:29:LEU:HD22	1.91	0.52
1:o:206:GLU:O	1:o:210:GLU:HG3	2.10	0.52
1:J:16:LEU:HD22	1:J:29:LEU:HD22	1.91	0.52
1:U:14:LYS:O	1:U:18:GLU:HG2	2.10	0.52
1:g:14:LYS:O	1:g:18:GLU:HG2	2.10	0.52
1:L:179:LEU:HG	1:L:183:LEU:HD12	1.91	0.52
1:X:178:PRO:O	1:X:182:LEU:HD12	2.09	0.52
1:4:14:LYS:O	1:4:18:GLU:HG2	2.09	0.52
1:N:179:LEU:HG	1:N:183:LEU:HD12	1.91	0.52
1:j:206:GLU:O	1:j:210:GLU:HG3	2.10	0.52
1:O:178:PRO:O	1:O:182:LEU:HD12	2.08	0.52
1:a:206:GLU:O	1:a:210:GLU:HG3	2.10	0.52
1:l:14:LYS:O	1:l:18:GLU:HG2	2.10	0.52
1:w:16:LEU:HD22	1:w:29:LEU:HD22	1.91	0.52
1:E:14:LYS:O	1:E:18:GLU:HG2	2.10	0.52
1:E:206:GLU:O	1:E:210:GLU:HG3	2.10	0.52
1:F:206:GLU:O	1:F:210:GLU:HG3	2.10	0.52
1:m:179:LEU:HG	1:m:183:LEU:HD12	1.91	0.52
1:R:9:LEU:HB3	1:R:50:PHE:HE2	1.73	0.52
1:n:206:GLU:O	1:n:210:GLU:HG3	2.10	0.52
1:d:206:GLU:O	1:d:210:GLU:HG3	2.10	0.52
1:z:14:LYS:O	1:z:18:GLU:HG2	2.10	0.52
1:z:97:ASP:O	1:z:101:LYS:HG2	2.10	0.52
1:T:17:HIS:O	1:T:20:VAL:HG12	2.09	0.52
1:1:14:LYS:O	1:1:18:GLU:HG2	2.09	0.52
1:K:206:GLU:O	1:K:210:GLU:HG3	2.10	0.52
1:V:14:LYS:O	1:V:18:GLU:HG2	2.09	0.52
1:s:14:LYS:O	1:s:18:GLU:HG2	2.10	0.52
1:t:17:HIS:O	1:t:20:VAL:HG12	2.09	0.52
1:Y:14:LYS:O	1:Y:18:GLU:HG2	2.09	0.52
1:Z:206:GLU:O	1:Z:210:GLU:HG3	2.10	0.52
1:6:206:GLU:O	1:6:210:GLU:HG3	2.10	0.52
1:P:9:LEU:HB3	1:P:50:PHE:HE2	1.73	0.52
1:l:97:ASP:O	1:l:101:LYS:HG2	2.10	0.52
1:A:14:LYS:O	1:A:18:GLU:HG2	2.09	0.52
1:A:177:GLU:CB	1:A:182:LEU:HD11	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:14:LYS:O	1:D:18:GLU:HG2	2.09	0.52
1:Q:145:GLU:O	1:Q:149:LYS:HG2	2.09	0.52
1:G:97:ASP:O	1:G:101:LYS:HG2	2.10	0.52
1:c:97:ASP:O	1:c:101:LYS:HG2	2.10	0.52
1:H:14:LYS:O	1:H:18:GLU:HG2	2.10	0.52
1:d:17:HIS:O	1:d:20:VAL:HG12	2.09	0.52
1:0:14:LYS:O	1:0:18:GLU:HG2	2.10	0.52
1:q:200:ASP:OD2	1:q:200:ASP:N	2.43	0.52
1:r:17:HIS:CE1	1:v:45:ILE:HG21	2.45	0.52
1:r:17:HIS:O	1:r:20:VAL:HG12	2.09	0.52
1:L:17:HIS:O	1:L:20:VAL:HG12	2.09	0.52
1:w:14:LYS:O	1:w:18:GLU:HG2	2.09	0.52
1:F:97:ASP:O	1:F:101:LYS:HG2	2.10	0.52
1:x:206:GLU:O	1:x:210:GLU:HG3	2.10	0.52
1:G:17:HIS:O	1:G:20:VAL:HG12	2.08	0.52
1:G:178:PRO:O	1:G:179:LEU:C	2.53	0.52
1:G:200:ASP:OD2	1:G:200:ASP:N	2.42	0.52
1:d:9:LEU:HB3	1:d:50:PHE:HE2	1.73	0.52
1:d:145:GLU:O	1:d:149:LYS:HG2	2.09	0.52
1:p:202:ARG:O	1:p:205:ALA:N	2.42	0.52
1:V:17:HIS:CE1	1:3:45:ILE:HG21	2.45	0.52
1:g:206:GLU:O	1:g:210:GLU:HG3	2.10	0.52
1:r:14:LYS:O	1:r:18:GLU:HG2	2.09	0.52
1:X:14:LYS:O	1:X:18:GLU:HG2	2.10	0.52
1:i:14:LYS:O	1:i:18:GLU:HG2	2.10	0.52
1:4:206:GLU:O	1:4:210:GLU:HG3	2.10	0.52
1:u:14:LYS:O	1:u:18:GLU:HG2	2.09	0.52
1:O:97:ASP:O	1:O:101:LYS:HG2	2.10	0.52
1:v:97:ASP:O	1:v:101:LYS:HG2	2.10	0.52
1:6:179:LEU:HG	1:6:183:LEU:HD12	1.90	0.52
1:a:97:ASP:O	1:a:101:LYS:HG2	2.10	0.52
1:B:179:LEU:HG	1:B:183:LEU:HD12	1.91	0.52
1:C:97:ASP:O	1:C:101:LYS:HG2	2.10	0.52
1:x:16:LEU:HD22	1:x:29:LEU:HD22	1.91	0.52
1:n:14:LYS:O	1:n:18:GLU:HG2	2.09	0.52
1:o:97:ASP:O	1:o:101:LYS:HG2	2.10	0.52
1:z:178:PRO:O	1:z:182:LEU:HD12	2.09	0.52
1:z:179:LEU:HG	1:z:183:LEU:HD12	1.91	0.52
1:I:206:GLU:O	1:I:210:GLU:HG3	2.10	0.52
1:U:206:GLU:O	1:U:210:GLU:HG3	2.10	0.52
1:f:97:ASP:O	1:f:101:LYS:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:145:GLU:O	1:q:149:LYS:HG2	2.09	0.52
1:K:9:LEU:HB3	1:K:50:PHE:HE2	1.73	0.52
1:r:17:HIS:O	1:r:18:GLU:C	2.53	0.52
1:W:14:LYS:O	1:W:18:GLU:HG2	2.09	0.52
1:s:17:HIS:O	1:s:18:GLU:C	2.53	0.52
1:3:206:GLU:O	1:3:210:GLU:HG3	2.10	0.52
1:X:16:LEU:HD22	1:X:29:LEU:HD22	1.91	0.52
1:X:179:LEU:HG	1:X:183:LEU:HD12	1.92	0.52
1:i:97:ASP:O	1:i:101:LYS:HG2	2.10	0.52
1:t:179:LEU:HG	1:t:183:LEU:HD12	1.91	0.52
1:Y:206:GLU:O	1:Y:210:GLU:HG3	2.10	0.52
1:u:16:LEU:HD22	1:u:29:LEU:HD22	1.91	0.52
1:u:202:ARG:O	1:u:205:ALA:N	2.43	0.52
1:O:17:HIS:O	1:O:20:VAL:HG12	2.08	0.52
1:v:17:HIS:O	1:v:20:VAL:HG12	2.09	0.52
1:v:206:GLU:O	1:v:210:GLU:HG3	2.10	0.52
1:P:145:GLU:O	1:P:149:LYS:HG2	2.09	0.52
1:l:179:LEU:HG	1:l:183:LEU:HD12	1.91	0.52
1:7:145:GLU:O	1:7:149:LYS:HG2	2.09	0.52
1:A:17:HIS:O	1:A:18:GLU:C	2.53	0.52
1:B:38:TYR:O	1:B:42:LYS:HB2	2.10	0.52
1:C:9:LEU:HB3	1:C:50:PHE:HE2	1.73	0.52
1:b:97:ASP:O	1:b:101:LYS:HG2	2.10	0.52
1:x:17:HIS:O	1:x:18:GLU:C	2.53	0.52
1:G:38:TYR:O	1:G:42:LYS:HB2	2.10	0.52
1:G:206:GLU:O	1:G:210:GLU:HG3	2.10	0.52
1:c:17:HIS:O	1:c:20:VAL:HG12	2.09	0.52
1:d:97:ASP:O	1:d:101:LYS:HG2	2.10	0.52
1:o:38:TYR:O	1:o:42:LYS:HB2	2.10	0.52
1:T:14:LYS:O	1:T:18:GLU:HG2	2.09	0.52
1:e:14:LYS:O	1:e:18:GLU:HG2	2.10	0.52
1:0:17:HIS:O	1:0:18:GLU:C	2.53	0.52
1:U:16:LEU:HD22	1:U:29:LEU:HD22	1.91	0.52
1:K:97:ASP:O	1:K:101:LYS:HG2	2.10	0.52
1:g:38:TYR:O	1:g:42:LYS:HB2	2.10	0.52
1:g:202:ARG:O	1:g:205:ALA:N	2.43	0.52
1:2:38:TYR:O	1:2:42:LYS:HB2	2.10	0.52
1:2:179:LEU:HG	1:2:183:LEU:HD12	1.91	0.52
1:L:14:LYS:O	1:L:18:GLU:HG2	2.09	0.52
1:h:179:LEU:HG	1:h:183:LEU:HD12	1.91	0.52
1:5:14:LYS:O	1:5:18:GLU:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:97:ASP:O	1:5:101:LYS:HG2	2.10	0.52
1:v:38:TYR:O	1:v:42:LYS:HB2	2.10	0.52
1:v:178:PRO:O	1:v:179:LEU:C	2.53	0.52
1:6:97:ASP:O	1:6:101:LYS:HG2	2.10	0.52
1:P:97:ASP:O	1:P:101:LYS:HG2	2.10	0.52
1:D:200:ASP:OD2	1:D:200:ASP:N	2.43	0.52
1:E:38:TYR:O	1:E:42:LYS:HB2	2.10	0.52
1:m:14:LYS:O	1:m:18:GLU:HG2	2.09	0.52
1:R:97:ASP:O	1:R:101:LYS:HG2	2.10	0.52
1:c:202:ARG:O	1:c:205:ALA:N	2.43	0.52
1:S:145:GLU:O	1:S:149:LYS:HG2	2.09	0.52
1:I:38:TYR:O	1:I:42:LYS:HB2	2.10	0.52
1:p:206:GLU:O	1:p:210:GLU:HG3	2.09	0.52
1:f:14:LYS:O	1:f:18:GLU:HG2	2.09	0.52
1:1:16:LEU:HD22	1:1:29:LEU:HD22	1.91	0.52
1:1:206:GLU:O	1:1:210:GLU:HG3	2.10	0.52
1:2:97:ASP:O	1:2:101:LYS:HG2	2.10	0.52
1:W:206:GLU:O	1:W:210:GLU:HG3	2.10	0.52
1:h:97:ASP:O	1:h:101:LYS:HG2	2.10	0.52
1:s:202:ARG:O	1:s:205:ALA:N	2.43	0.52
1:t:38:TYR:O	1:t:42:LYS:HB2	2.10	0.52
1:4:38:TYR:O	1:4:42:LYS:HB2	2.10	0.52
1:4:97:ASP:O	1:4:101:LYS:HG2	2.10	0.52
1:N:202:ARG:O	1:N:205:ALA:N	2.41	0.52
1:Y:97:ASP:O	1:Y:101:LYS:HG2	2.10	0.52
1:O:14:LYS:O	1:O:18:GLU:HG2	2.09	0.52
1:Z:14:LYS:O	1:Z:18:GLU:HG2	2.10	0.52
1:A:9:LEU:HB3	1:A:50:PHE:HE2	1.73	0.51
1:B:97:ASP:O	1:B:101:LYS:HG2	2.10	0.51
1:C:179:LEU:HG	1:C:183:LEU:HD12	1.92	0.51
1:E:17:HIS:O	1:E:18:GLU:C	2.53	0.51
1:E:45:ILE:HG21	1:0:17:HIS:CE1	2.46	0.51
1:Q:17:HIS:O	1:Q:18:GLU:C	2.53	0.51
1:Q:178:PRO:O	1:Q:179:LEU:C	2.53	0.51
1:Q:206:GLU:O	1:Q:210:GLU:HG3	2.10	0.51
1:b:16:LEU:HD22	1:b:29:LEU:HD22	1.91	0.51
1:R:179:LEU:HG	1:R:183:LEU:HD12	1.90	0.51
1:c:14:LYS:O	1:c:18:GLU:HG2	2.09	0.51
1:n:38:TYR:O	1:n:42:LYS:HB2	2.10	0.51
1:H:206:GLU:O	1:H:210:GLU:HG3	2.10	0.51
1:S:14:LYS:O	1:S:18:GLU:HG2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:178:PRO:O	1:T:182:LEU:HD12	2.10	0.51
1:e:97:ASP:O	1:e:101:LYS:HG2	2.10	0.51
1:p:38:TYR:O	1:p:42:LYS:HB2	2.10	0.51
1:p:97:ASP:O	1:p:101:LYS:HG2	2.10	0.51
1:0:38:TYR:O	1:0:42:LYS:HB2	2.10	0.51
1:J:14:LYS:O	1:J:18:GLU:HG2	2.09	0.51
1:J:97:ASP:O	1:J:101:LYS:HG2	2.10	0.51
1:U:17:HIS:O	1:U:18:GLU:C	2.53	0.51
1:q:206:GLU:O	1:q:210:GLU:HG3	2.10	0.51
1:1:97:ASP:O	1:1:101:LYS:HG2	2.10	0.51
1:g:17:HIS:O	1:g:18:GLU:C	2.53	0.51
1:g:97:ASP:O	1:g:101:LYS:HG2	2.10	0.51
1:r:9:LEU:HB3	1:r:50:PHE:HE2	1.73	0.51
1:s:38:TYR:O	1:s:42:LYS:HB2	2.10	0.51
1:3:38:TYR:O	1:3:42:LYS:HB2	2.10	0.51
1:M:38:TYR:O	1:M:42:LYS:HB2	2.10	0.51
1:N:38:TYR:O	1:N:42:LYS:HB2	2.10	0.51
1:Y:38:TYR:O	1:Y:42:LYS:HB2	2.10	0.51
1:Z:97:ASP:O	1:Z:101:LYS:HG2	2.10	0.51
1:k:9:LEU:HB3	1:k:50:PHE:HE2	1.73	0.51
1:6:16:LEU:HD22	1:6:29:LEU:HD22	1.91	0.51
1:6:44:LEU:HD22	1:a:14:LYS:HB2	1.92	0.51
1:P:17:HIS:O	1:P:18:GLU:C	2.53	0.51
1:a:38:TYR:O	1:a:42:LYS:HB2	2.10	0.51
1:w:93:GLU:HA	1:w:101:LYS:HZ2	1.75	0.51
1:E:97:ASP:O	1:E:101:LYS:HG2	2.10	0.51
1:Q:38:TYR:O	1:Q:42:LYS:HB2	2.10	0.51
1:b:206:GLU:O	1:b:210:GLU:HG3	2.10	0.51
1:m:97:ASP:O	1:m:101:LYS:HG2	2.10	0.51
1:G:17:HIS:O	1:G:18:GLU:C	2.53	0.51
1:y:9:LEU:HB3	1:y:50:PHE:HE2	1.73	0.51
1:S:38:TYR:O	1:S:42:LYS:HB2	2.10	0.51
1:d:17:HIS:O	1:d:18:GLU:C	2.53	0.51
1:d:38:TYR:O	1:d:42:LYS:HB2	2.10	0.51
1:d:179:LEU:HG	1:d:183:LEU:HD12	1.92	0.51
1:e:16:LEU:HD22	1:e:29:LEU:HD22	1.91	0.51
1:e:206:GLU:O	1:e:210:GLU:HG3	2.10	0.51
1:J:179:LEU:HG	1:J:183:LEU:HD12	1.91	0.51
1:q:17:HIS:O	1:q:18:GLU:C	2.53	0.51
1:q:38:TYR:O	1:q:42:LYS:HB2	2.10	0.51
1:3:200:ASP:OD2	1:3:200:ASP:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:38:TYR:O	1:j:42:LYS:HB2	2.10	0.51
1:j:97:ASP:O	1:j:101:LYS:HG2	2.10	0.51
1:j:200:ASP:OD2	1:j:200:ASP:N	2.43	0.51
1:u:178:PRO:O	1:u:182:LEU:HD12	2.09	0.51
1:Z:38:TYR:O	1:Z:42:LYS:HB2	2.10	0.51
1:v:17:HIS:O	1:v:18:GLU:C	2.53	0.51
1:P:38:TYR:O	1:P:42:LYS:HB2	2.10	0.51
1:w:206:GLU:O	1:w:210:GLU:HG3	2.10	0.51
1:7:38:TYR:O	1:7:42:LYS:HB2	2.10	0.51
1:F:14:LYS:O	1:F:18:GLU:HG2	2.10	0.51
1:Q:97:ASP:O	1:Q:101:LYS:HG2	2.10	0.51
1:x:177:GLU:CB	1:x:182:LEU:HD11	2.41	0.51
1:R:16:LEU:HD22	1:R:29:LEU:HD22	1.91	0.51
1:c:206:GLU:O	1:c:210:GLU:HG3	2.10	0.51
1:n:97:ASP:O	1:n:101:LYS:HG2	2.10	0.51
1:y:14:LYS:O	1:y:18:GLU:HG2	2.10	0.51
1:y:206:GLU:O	1:y:210:GLU:HG3	2.10	0.51
1:T:17:HIS:O	1:T:18:GLU:C	2.53	0.51
1:q:97:ASP:O	1:q:101:LYS:HG2	2.10	0.51
1:q:178:PRO:O	1:q:179:LEU:C	2.53	0.51
1:W:97:ASP:O	1:W:101:LYS:HG2	2.10	0.51
1:i:38:TYR:O	1:i:42:LYS:HB2	2.10	0.51
1:t:77:GLU:OE1	1:t:77:GLU:N	2.42	0.51
1:5:92:VAL:HG12	1:5:101:LYS:HZ2	1.75	0.51
1:O:206:GLU:O	1:O:210:GLU:HG3	2.10	0.51
1:Z:177:GLU:CB	1:Z:182:LEU:HD11	2.40	0.51
1:k:206:GLU:O	1:k:210:GLU:HG3	2.10	0.51
1:P:200:ASP:N	1:P:200:ASP:OD2	2.42	0.51
1:l:16:LEU:HD22	1:l:29:LEU:HD22	1.91	0.51
1:7:14:LYS:O	1:7:18:GLU:HG2	2.10	0.51
1:7:206:GLU:O	1:7:210:GLU:HG3	2.10	0.51
1:B:17:HIS:CE1	1:F:45:ILE:HG21	2.46	0.51
1:Q:177:GLU:OE1	1:Q:177:GLU:N	2.44	0.51
1:m:206:GLU:O	1:m:210:GLU:HG3	2.10	0.51
1:c:17:HIS:O	1:c:18:GLU:C	2.53	0.51
1:o:77:GLU:OE1	1:o:77:GLU:N	2.42	0.51
1:q:177:GLU:OE1	1:q:177:GLU:N	2.44	0.51
1:W:16:LEU:HD22	1:W:29:LEU:HD22	1.91	0.51
1:W:38:TYR:O	1:W:42:LYS:HB2	2.10	0.51
1:h:38:TYR:O	1:h:42:LYS:HB2	2.10	0.51
1:h:206:GLU:O	1:h:210:GLU:HG3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:97:ASP:O	1:M:101:LYS:HG2	2.10	0.51
1:t:17:HIS:O	1:t:18:GLU:C	2.53	0.51
1:Y:14:LYS:HB2	1:O:44:LEU:HD22	1.93	0.51
1:O:17:HIS:O	1:O:18:GLU:C	2.53	0.51
1:k:97:ASP:O	1:k:101:LYS:HG2	2.10	0.51
1:P:179:LEU:HG	1:P:183:LEU:HD12	1.93	0.51
1:C:14:LYS:O	1:C:18:GLU:HG2	2.09	0.51
1:Q:14:LYS:HB2	1:L:44:LEU:HD22	1.92	0.51
1:m:77:GLU:OE1	1:m:77:GLU:N	2.42	0.51
1:x:97:ASP:O	1:x:101:LYS:HG2	2.10	0.51
1:G:179:LEU:HG	1:G:183:LEU:HD12	1.93	0.51
1:c:77:GLU:OE1	1:c:77:GLU:N	2.42	0.51
1:S:179:LEU:HG	1:S:183:LEU:HD12	1.91	0.51
1:S:206:GLU:O	1:S:210:GLU:HG3	2.10	0.51
1:d:16:LEU:HD22	1:d:29:LEU:HD22	1.91	0.51
1:d:200:ASP:OD2	1:d:200:ASP:N	2.42	0.51
1:z:16:LEU:HD22	1:z:29:LEU:HD22	1.91	0.51
1:T:97:ASP:O	1:T:101:LYS:HG2	2.10	0.51
1:f:45:ILE:HG21	1:2:17:HIS:CE1	2.46	0.51
1:q:14:LYS:O	1:q:18:GLU:HG2	2.09	0.51
1:K:14:LYS:O	1:K:18:GLU:HG2	2.10	0.51
1:r:38:TYR:O	1:r:42:LYS:HB2	2.10	0.51
1:L:17:HIS:O	1:L:18:GLU:C	2.53	0.51
1:t:206:GLU:O	1:t:210:GLU:HG3	2.10	0.51
1:N:17:HIS:O	1:N:18:GLU:C	2.53	0.51
1:u:97:ASP:O	1:u:101:LYS:HG2	2.10	0.51
1:O:202:ARG:O	1:O:205:ALA:N	2.44	0.51
1:k:14:LYS:O	1:k:18:GLU:HG2	2.09	0.51
1:v:179:LEU:HG	1:v:183:LEU:HD12	1.93	0.51
1:6:38:TYR:O	1:6:42:LYS:HB2	2.10	0.51
1:a:77:GLU:OE1	1:a:77:GLU:N	2.42	0.51
1:Q:14:LYS:O	1:Q:18:GLU:HG2	2.09	0.51
1:y:97:ASP:O	1:y:101:LYS:HG2	2.10	0.51
1:d:45:ILE:HG21	1:5:17:HIS:CE1	2.45	0.51
1:e:38:TYR:O	1:e:42:LYS:HB2	2.10	0.51
1:J:206:GLU:O	1:J:210:GLU:HG3	2.10	0.51
1:U:97:ASP:O	1:U:101:LYS:HG2	2.10	0.51
1:K:179:LEU:HG	1:K:183:LEU:HD12	1.93	0.51
1:r:97:ASP:O	1:r:101:LYS:HG2	2.10	0.51
1:s:97:ASP:O	1:s:101:LYS:HG2	2.10	0.51
1:X:97:ASP:O	1:X:101:LYS:HG2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:45:ILE:HG21	1:7:17:HIS:CE1	2.44	0.51
1:N:77:GLU:OE1	1:N:77:GLU:N	2.42	0.51
1:5:38:TYR:O	1:5:42:LYS:HB2	2.10	0.51
1:l:38:TYR:O	1:l:42:LYS:HB2	2.10	0.51
1:w:97:ASP:O	1:w:101:LYS:HG2	2.10	0.51
1:A:38:TYR:O	1:A:42:LYS:HB2	2.10	0.51
1:A:97:ASP:O	1:A:101:LYS:HG2	2.10	0.51
1:B:77:GLU:OE1	1:B:77:GLU:N	2.42	0.51
1:D:38:TYR:O	1:D:42:LYS:HB2	2.10	0.51
1:R:38:TYR:O	1:R:42:LYS:HB2	2.10	0.51
1:c:32:LEU:HD22	1:c:57:LEU:HD22	1.93	0.51
1:H:97:ASP:O	1:H:101:LYS:HG2	2.10	0.51
1:I:17:HIS:O	1:I:18:GLU:C	2.53	0.51
1:p:179:LEU:HG	1:p:183:LEU:HD12	1.92	0.51
1:1:200:ASP:OD2	1:1:200:ASP:N	2.43	0.51
1:V:200:ASP:OD2	1:V:200:ASP:N	2.44	0.51
1:L:97:ASP:O	1:L:101:LYS:HG2	2.10	0.51
1:N:178:PRO:O	1:N:179:LEU:C	2.54	0.51
1:N:206:GLU:O	1:N:210:GLU:HG3	2.10	0.51
1:u:38:TYR:O	1:u:42:LYS:HB2	2.10	0.51
1:O:38:TYR:O	1:O:42:LYS:HB2	2.10	0.51
1:O:77:GLU:OE1	1:O:77:GLU:N	2.42	0.51
1:P:177:GLU:N	1:P:177:GLU:OE1	2.44	0.51
1:7:179:LEU:HG	1:7:183:LEU:HD12	1.91	0.51
1:A:45:ILE:HG21	1:z:17:HIS:CE1	2.46	0.51
1:B:52:GLU:OE2	1:B:56:ARG:NE	2.44	0.51
1:m:17:HIS:O	1:m:18:GLU:C	2.53	0.51
1:c:38:TYR:O	1:c:42:LYS:HB2	2.10	0.51
1:n:92:VAL:HG12	1:n:101:LYS:HZ2	1.75	0.51
1:z:38:TYR:O	1:z:42:LYS:HB2	2.10	0.51
1:I:92:VAL:HG12	1:I:101:LYS:HZ2	1.75	0.51
1:T:38:TYR:O	1:T:42:LYS:HB2	2.10	0.51
1:T:179:LEU:HG	1:T:183:LEU:HD12	1.92	0.51
1:0:97:ASP:O	1:0:101:LYS:HG2	2.10	0.51
1:K:177:GLU:OE1	1:K:177:GLU:N	2.44	0.51
1:V:38:TYR:O	1:V:42:LYS:HB2	2.10	0.51
1:V:97:ASP:O	1:V:101:LYS:HG2	2.10	0.51
1:2:52:GLU:OE2	1:2:56:ARG:NE	2.44	0.51
1:L:38:TYR:O	1:L:42:LYS:HB2	2.10	0.51
1:s:45:ILE:HG21	1:w:17:HIS:CE1	2.45	0.51
1:3:17:HIS:O	1:3:18:GLU:C	2.53	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:17:HIS:O	1:X:18:GLU:C	2.53	0.51
1:i:32:LEU:HD22	1:i:57:LEU:HD22	1.93	0.51
1:t:202:ARG:O	1:t:205:ALA:N	2.41	0.51
1:j:32:LEU:HD22	1:j:57:LEU:HD22	1.93	0.51
1:w:38:TYR:O	1:w:42:LYS:HB2	2.10	0.51
1:C:52:GLU:OE2	1:C:56:ARG:NE	2.44	0.51
1:C:177:GLU:OE1	1:C:177:GLU:N	2.44	0.51
1:b:32:LEU:HD22	1:b:57:LEU:HD22	1.93	0.51
1:b:38:TYR:O	1:b:42:LYS:HB2	2.10	0.51
1:x:38:TYR:O	1:x:42:LYS:HB2	2.10	0.51
1:n:160:ILE:HG21	1:n:193:GLU:HB3	1.93	0.51
1:H:38:TYR:O	1:H:42:LYS:HB2	2.10	0.51
1:S:178:PRO:O	1:S:179:LEU:C	2.54	0.51
1:z:202:ARG:O	1:z:205:ALA:N	2.42	0.51
1:J:17:HIS:O	1:J:18:GLU:C	2.53	0.51
1:U:38:TYR:O	1:U:42:LYS:HB2	2.10	0.51
1:f:52:GLU:OE2	1:f:56:ARG:NE	2.44	0.51
1:q:44:LEU:HD22	1:Z:14:LYS:HB2	1.93	0.51
1:1:38:TYR:O	1:1:42:LYS:HB2	2.10	0.51
1:K:32:LEU:HD22	1:K:57:LEU:HD22	1.93	0.51
1:2:77:GLU:OE1	1:2:77:GLU:N	2.42	0.51
1:s:177:GLU:N	1:s:177:GLU:OE1	2.44	0.51
1:M:32:LEU:HD22	1:M:57:LEU:HD22	1.93	0.51
1:5:32:LEU:HD22	1:5:57:LEU:HD22	1.93	0.51
1:P:16:LEU:HD22	1:P:29:LEU:HD22	1.91	0.51
1:l:17:HIS:O	1:l:18:GLU:C	2.53	0.51
1:D:97:ASP:O	1:D:101:LYS:HG2	2.10	0.51
1:F:52:GLU:OE2	1:F:56:ARG:NE	2.44	0.51
1:d:177:GLU:OE1	1:d:177:GLU:N	2.44	0.51
1:z:17:HIS:O	1:z:18:GLU:C	2.53	0.51
1:J:160:ILE:HG21	1:J:193:GLU:HB3	1.93	0.51
1:J:202:ARG:O	1:J:205:ALA:N	2.42	0.51
1:1:32:LEU:HD22	1:1:57:LEU:HD22	1.93	0.51
1:K:52:GLU:OE2	1:K:56:ARG:NE	2.44	0.51
1:g:32:LEU:HD22	1:g:57:LEU:HD22	1.93	0.51
1:W:17:HIS:O	1:W:18:GLU:C	2.53	0.51
1:3:32:LEU:HD22	1:3:57:LEU:HD22	1.93	0.51
1:X:38:TYR:O	1:X:42:LYS:HB2	2.10	0.51
1:t:160:ILE:HG21	1:t:193:GLU:HB3	1.93	0.51
1:4:200:ASP:OD2	1:4:200:ASP:N	2.42	0.51
1:O:32:LEU:HD22	1:O:57:LEU:HD22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:92:VAL:HG12	1:Z:101:LYS:HZ2	1.75	0.51
1:Z:160:ILE:HG21	1:Z:193:GLU:HB3	1.93	0.51
1:6:45:ILE:HG21	1:a:17:HIS:CE1	2.46	0.51
1:6:200:ASP:OD2	1:6:200:ASP:N	2.44	0.51
1:C:32:LEU:HD22	1:C:57:LEU:HD22	1.93	0.50
1:C:38:TYR:O	1:C:42:LYS:HB2	2.10	0.50
1:E:32:LEU:HD22	1:E:57:LEU:HD22	1.93	0.50
1:m:160:ILE:HG21	1:m:193:GLU:HB3	1.93	0.50
1:I:32:LEU:HD22	1:I:57:LEU:HD22	1.93	0.50
1:q:32:LEU:HD22	1:q:57:LEU:HD22	1.93	0.50
1:K:38:TYR:O	1:K:42:LYS:HB2	2.10	0.50
1:V:178:PRO:O	1:V:182:LEU:HD12	2.11	0.50
1:r:45:ILE:HG21	1:l:17:HIS:CE1	2.46	0.50
1:2:45:ILE:HG21	1:k:17:HIS:CE1	2.46	0.50
1:4:32:LEU:HD22	1:4:57:LEU:HD22	1.93	0.50
1:N:92:VAL:HG12	1:N:101:LYS:HZ2	1.75	0.50
1:N:160:ILE:HG21	1:N:193:GLU:HB3	1.94	0.50
1:Y:32:LEU:HD22	1:Y:57:LEU:HD22	1.93	0.50
1:u:17:HIS:O	1:u:18:GLU:C	2.53	0.50
1:7:32:LEU:HD22	1:7:57:LEU:HD22	1.93	0.50
1:Q:32:LEU:HD22	1:Q:57:LEU:HD22	1.93	0.50
1:b:44:LEU:HD22	1:3:14:LYS:HB2	1.93	0.50
1:m:38:TYR:O	1:m:42:LYS:HB2	2.10	0.50
1:x:114:ALA:O	1:x:118:LYS:N	2.45	0.50
1:R:160:ILE:HG21	1:R:193:GLU:HB3	1.94	0.50
1:S:32:LEU:HD22	1:S:57:LEU:HD22	1.93	0.50
1:S:160:ILE:HG21	1:S:193:GLU:HB3	1.94	0.50
1:d:177:GLU:CB	1:d:182:LEU:HD11	2.42	0.50
1:I:97:ASP:O	1:I:101:LYS:HG2	2.10	0.50
1:I:160:ILE:HG21	1:I:193:GLU:HB3	1.93	0.50
1:e:17:HIS:O	1:e:18:GLU:C	2.53	0.50
1:e:114:ALA:O	1:e:118:LYS:N	2.45	0.50
1:p:17:HIS:O	1:p:18:GLU:C	2.53	0.50
1:0:177:GLU:N	1:0:177:GLU:OE1	2.44	0.50
1:U:114:ALA:O	1:U:118:LYS:N	2.45	0.50
1:V:52:GLU:OE2	1:V:56:ARG:NE	2.44	0.50
1:2:32:LEU:HD22	1:2:57:LEU:HD22	1.93	0.50
1:L:32:LEU:HD22	1:L:57:LEU:HD22	1.93	0.50
1:3:97:ASP:O	1:3:101:LYS:HG2	2.10	0.50
1:3:160:ILE:HG21	1:3:193:GLU:HB3	1.94	0.50
1:M:200:ASP:OD2	1:M:200:ASP:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:97:ASP:O	1:t:101:LYS:HG2	2.10	0.50
1:t:178:PRO:O	1:t:179:LEU:C	2.54	0.50
1:u:114:ALA:O	1:u:118:LYS:N	2.45	0.50
1:6:114:ALA:O	1:6:118:LYS:N	2.45	0.50
1:6:160:ILE:HG21	1:6:193:GLU:HB3	1.94	0.50
1:6:178:PRO:O	1:6:182:LEU:HD12	2.11	0.50
1:C:45:ILE:HG21	1:x:17:HIS:CE1	2.46	0.50
1:D:44:LEU:HD22	1:1:14:LYS:HB2	1.93	0.50
1:D:52:GLU:OE2	1:D:56:ARG:NE	2.44	0.50
1:Q:160:ILE:HG21	1:Q:193:GLU:HB3	1.93	0.50
1:R:114:ALA:O	1:R:118:LYS:N	2.45	0.50
1:z:114:ALA:O	1:z:118:LYS:N	2.45	0.50
1:T:32:LEU:HD22	1:T:57:LEU:HD22	1.93	0.50
1:e:17:HIS:CE1	1:Y:45:ILE:HG21	2.46	0.50
1:0:178:PRO:O	1:0:179:LEU:C	2.53	0.50
1:J:38:TYR:O	1:J:42:LYS:HB2	2.10	0.50
1:q:160:ILE:HG21	1:q:193:GLU:HB3	1.93	0.50
1:h:17:HIS:O	1:h:18:GLU:C	2.53	0.50
1:M:114:ALA:O	1:M:118:LYS:N	2.45	0.50
1:X:114:ALA:O	1:X:118:LYS:N	2.45	0.50
1:X:160:ILE:HG21	1:X:193:GLU:HB3	1.93	0.50
1:i:114:ALA:O	1:i:118:LYS:N	2.45	0.50
1:j:114:ALA:O	1:j:118:LYS:N	2.45	0.50
1:5:114:ALA:O	1:5:118:LYS:N	2.45	0.50
1:7:97:ASP:O	1:7:101:LYS:HG2	2.10	0.50
1:7:160:ILE:HG21	1:7:193:GLU:HB3	1.94	0.50
1:7:178:PRO:O	1:7:179:LEU:C	2.54	0.50
1:B:14:LYS:HB2	1:F:44:LEU:HD22	1.94	0.50
1:B:32:LEU:HD22	1:B:57:LEU:HD22	1.93	0.50
1:C:160:ILE:HG21	1:C:193:GLU:HB3	1.94	0.50
1:Q:179:LEU:HG	1:Q:183:LEU:HD12	1.93	0.50
1:G:52:GLU:OE2	1:G:56:ARG:NE	2.44	0.50
1:G:114:ALA:O	1:G:118:LYS:N	2.45	0.50
1:c:44:LEU:HD22	1:4:14:LYS:HB2	1.94	0.50
1:S:17:HIS:CE1	1:N:45:ILE:HG21	2.45	0.50
1:o:114:ALA:O	1:o:118:LYS:N	2.45	0.50
1:T:114:ALA:O	1:T:118:LYS:N	2.45	0.50
1:e:32:LEU:HD22	1:e:57:LEU:HD22	1.93	0.50
1:e:160:ILE:HG21	1:e:193:GLU:HB3	1.94	0.50
1:K:160:ILE:HG21	1:K:193:GLU:HB3	1.93	0.50
1:V:32:LEU:HD22	1:V:57:LEU:HD22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:17:HIS:O	1:2:18:GLU:C	2.53	0.50
1:L:114:ALA:O	1:L:118:LYS:N	2.45	0.50
1:W:32:LEU:HD22	1:W:57:LEU:HD22	1.93	0.50
1:W:114:ALA:O	1:W:118:LYS:N	2.45	0.50
1:W:160:ILE:HG21	1:W:193:GLU:HB3	1.93	0.50
1:M:17:HIS:O	1:M:18:GLU:C	2.53	0.50
1:i:45:ILE:HG21	1:u:17:HIS:CE1	2.47	0.50
1:j:14:LYS:HB2	1:a:44:LEU:HD22	1.94	0.50
1:u:160:ILE:HG21	1:u:193:GLU:HB3	1.93	0.50
1:O:160:ILE:HG21	1:O:193:GLU:HB3	1.93	0.50
1:v:114:ALA:O	1:v:118:LYS:N	2.45	0.50
1:P:156:LYS:HA	1:P:159:LYS:HZ3	1.77	0.50
1:A:17:HIS:CE1	1:G:45:ILE:HG21	2.47	0.50
1:A:44:LEU:HD22	1:z:14:LYS:HB2	1.94	0.50
1:B:17:HIS:O	1:B:18:GLU:C	2.53	0.50
1:D:17:HIS:CE1	1:I:45:ILE:HG21	2.47	0.50
1:D:32:LEU:HD22	1:D:57:LEU:HD22	1.93	0.50
1:F:32:LEU:HD22	1:F:57:LEU:HD22	1.93	0.50
1:F:38:TYR:O	1:F:42:LYS:HB2	2.10	0.50
1:Q:45:ILE:HG21	1:n:17:HIS:CE1	2.47	0.50
1:G:32:LEU:HD22	1:G:57:LEU:HD22	1.93	0.50
1:R:14:LYS:HB2	1:M:44:LEU:HD22	1.93	0.50
1:R:200:ASP:OD2	1:R:200:ASP:N	2.45	0.50
1:c:160:ILE:HG21	1:c:193:GLU:HB3	1.94	0.50
1:H:32:LEU:HD22	1:H:57:LEU:HD22	1.93	0.50
1:S:97:ASP:O	1:S:101:LYS:HG2	2.10	0.50
1:I:17:HIS:CE1	1:1:45:ILE:HG21	2.47	0.50
1:J:32:LEU:HD22	1:J:57:LEU:HD22	1.93	0.50
1:f:32:LEU:HD22	1:f:57:LEU:HD22	1.93	0.50
1:K:178:PRO:O	1:K:179:LEU:C	2.53	0.50
1:M:160:ILE:HG21	1:M:193:GLU:HB3	1.93	0.50
1:N:97:ASP:O	1:N:101:LYS:HG2	2.10	0.50
1:k:77:GLU:OE1	1:k:77:GLU:N	2.42	0.50
1:v:52:GLU:OE2	1:v:56:ARG:NE	2.44	0.50
1:P:177:GLU:CB	1:P:182:LEU:HD11	2.42	0.50
1:a:93:GLU:HA	1:a:101:LYS:HZ2	1.77	0.50
1:a:114:ALA:O	1:a:118:LYS:N	2.45	0.50
1:l:114:ALA:O	1:l:118:LYS:N	2.45	0.50
1:C:177:GLU:CB	1:C:182:LEU:HD11	2.41	0.50
1:Q:177:GLU:CB	1:Q:182:LEU:HD11	2.42	0.50
1:m:32:LEU:HD22	1:m:57:LEU:HD22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:17:HIS:O	1:H:18:GLU:C	2.53	0.50
1:H:160:ILE:HG21	1:H:193:GLU:HB3	1.93	0.50
1:S:17:HIS:O	1:S:18:GLU:C	2.53	0.50
1:S:114:ALA:O	1:S:118:LYS:N	2.45	0.50
1:d:44:LEU:HD22	1:5:14:LYS:HB2	1.94	0.50
1:o:45:ILE:HG21	1:M:17:HIS:CE1	2.46	0.50
1:I:77:GLU:OE1	1:I:77:GLU:N	2.42	0.50
1:I:202:ARG:O	1:I:205:ALA:N	2.43	0.50
1:f:38:TYR:O	1:f:42:LYS:HB2	2.10	0.50
1:f:77:GLU:OE1	1:f:77:GLU:N	2.42	0.50
1:q:177:GLU:CB	1:q:182:LEU:HD11	2.42	0.50
1:q:179:LEU:HG	1:q:183:LEU:HD12	1.93	0.50
1:g:52:GLU:OE2	1:g:56:ARG:NE	2.44	0.50
1:s:114:ALA:O	1:s:118:LYS:N	2.45	0.50
1:Y:200:ASP:OD2	1:Y:200:ASP:N	2.43	0.50
1:j:17:HIS:O	1:j:18:GLU:C	2.53	0.50
1:6:52:GLU:OE2	1:6:56:ARG:NE	2.44	0.50
1:w:17:HIS:O	1:w:18:GLU:C	2.53	0.50
1:7:114:ALA:O	1:7:118:LYS:N	2.45	0.50
1:B:45:ILE:HG21	1:y:17:HIS:CE1	2.47	0.50
1:D:45:ILE:HG21	1:1:17:HIS:CE1	2.46	0.50
1:F:77:GLU:OE1	1:F:77:GLU:N	2.42	0.50
1:R:52:GLU:OE2	1:R:56:ARG:NE	2.44	0.50
1:y:38:TYR:O	1:y:42:LYS:HB2	2.10	0.50
1:T:45:ILE:HG21	1:q:17:HIS:CE1	2.47	0.50
1:0:114:ALA:O	1:0:118:LYS:N	2.45	0.50
1:f:17:HIS:CE1	1:k:45:ILE:HG21	2.46	0.50
1:f:160:ILE:HG21	1:f:193:GLU:HB3	1.94	0.50
1:V:14:LYS:HB2	1:3:44:LEU:HD22	1.93	0.50
1:r:52:GLU:OE2	1:r:56:ARG:NE	2.44	0.50
1:h:17:HIS:CE1	1:7:45:ILE:HG21	2.46	0.50
1:3:77:GLU:OE1	1:3:77:GLU:N	2.42	0.50
1:j:52:GLU:OE2	1:j:56:ARG:NE	2.44	0.50
1:j:160:ILE:HG21	1:j:193:GLU:HB3	1.94	0.50
1:v:160:ILE:HG21	1:v:193:GLU:HB3	1.93	0.50
1:a:202:ARG:O	1:a:205:ALA:N	2.44	0.50
1:w:32:LEU:HD22	1:w:57:LEU:HD22	1.93	0.50
1:w:114:ALA:O	1:w:118:LYS:N	2.45	0.50
1:w:160:ILE:HG21	1:w:193:GLU:HB3	1.93	0.50
1:7:17:HIS:O	1:7:18:GLU:C	2.53	0.50
1:C:114:ALA:O	1:C:118:LYS:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:114:ALA:O	1:D:118:LYS:N	2.45	0.50
1:E:52:GLU:OE2	1:E:56:ARG:NE	2.44	0.50
1:F:160:ILE:HG21	1:F:193:GLU:HB3	1.94	0.50
1:m:202:ARG:O	1:m:205:ALA:N	2.43	0.50
1:x:32:LEU:HD22	1:x:57:LEU:HD22	1.93	0.50
1:n:52:GLU:OE2	1:n:56:ARG:NE	2.44	0.50
1:y:17:HIS:O	1:y:18:GLU:C	2.53	0.50
1:y:178:PRO:O	1:y:179:LEU:C	2.54	0.50
1:H:114:ALA:O	1:H:118:LYS:N	2.45	0.50
1:p:160:ILE:HG21	1:p:193:GLU:HB3	1.94	0.50
1:U:160:ILE:HG21	1:U:193:GLU:HB3	1.94	0.50
1:1:202:ARG:O	1:1:205:ALA:N	2.44	0.50
1:K:114:ALA:O	1:K:118:LYS:N	2.45	0.50
1:V:114:ALA:O	1:V:118:LYS:N	2.45	0.50
1:g:17:HIS:CE1	1:w:45:ILE:HG21	2.46	0.50
1:h:160:ILE:HG21	1:h:193:GLU:HB3	1.93	0.50
1:3:202:ARG:O	1:3:205:ALA:N	2.44	0.50
1:M:52:GLU:OE2	1:M:56:ARG:NE	2.44	0.50
1:t:92:VAL:HG12	1:t:101:LYS:HZ2	1.76	0.50
1:4:179:LEU:HG	1:4:183:LEU:HD12	1.92	0.50
1:N:200:ASP:OD2	1:N:200:ASP:N	2.44	0.50
1:Y:17:HIS:CE1	1:O:45:ILE:HG21	2.47	0.50
1:k:38:TYR:O	1:k:42:LYS:HB2	2.10	0.50
1:v:32:LEU:HD22	1:v:57:LEU:HD22	1.93	0.50
1:6:17:HIS:O	1:6:18:GLU:C	2.53	0.50
1:A:52:GLU:OE2	1:A:56:ARG:NE	2.44	0.50
1:C:178:PRO:O	1:C:179:LEU:C	2.53	0.50
1:E:17:HIS:CE1	1:H:45:ILE:HG21	2.46	0.50
1:Q:17:HIS:CE1	1:L:45:ILE:HG21	2.47	0.50
1:b:178:PRO:O	1:b:182:LEU:HD12	2.12	0.50
1:x:160:ILE:HG21	1:x:193:GLU:HB3	1.93	0.50
1:G:160:ILE:HG21	1:G:193:GLU:HB3	1.93	0.50
1:c:114:ALA:O	1:c:118:LYS:N	2.45	0.50
1:y:77:GLU:OE1	1:y:77:GLU:N	2.42	0.50
1:S:77:GLU:OE1	1:S:77:GLU:N	2.42	0.50
1:o:32:LEU:HD22	1:o:57:LEU:HD22	1.93	0.50
1:T:160:ILE:HG21	1:T:193:GLU:HB3	1.93	0.50
1:s:178:PRO:O	1:s:179:LEU:C	2.53	0.50
1:4:114:ALA:O	1:4:118:LYS:N	2.45	0.50
1:4:160:ILE:HG21	1:4:193:GLU:HB3	1.94	0.50
1:Y:160:ILE:HG21	1:Y:193:GLU:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:178:PRO:O	1:Y:179:LEU:C	2.53	0.50
1:O:114:ALA:O	1:O:118:LYS:N	2.45	0.50
1:k:178:PRO:O	1:k:179:LEU:C	2.54	0.50
1:l:202:ARG:O	1:l:205:ALA:N	2.43	0.50
1:b:177:GLU:CB	1:b:182:LEU:HD11	2.42	0.49
1:R:17:HIS:O	1:R:18:GLU:C	2.53	0.49
1:R:17:HIS:CE1	1:M:45:ILE:HG21	2.47	0.49
1:R:44:LEU:HD22	1:o:14:LYS:HB2	1.94	0.49
1:R:202:ARG:O	1:R:205:ALA:N	2.45	0.49
1:y:32:LEU:HD22	1:y:57:LEU:HD22	1.93	0.49
1:H:178:PRO:O	1:H:182:LEU:HD12	2.12	0.49
1:S:14:LYS:HB2	1:N:44:LEU:HD22	1.94	0.49
1:o:202:ARG:O	1:o:205:ALA:N	2.45	0.49
1:z:160:ILE:HG21	1:z:193:GLU:HB3	1.93	0.49
1:T:17:HIS:CE1	1:Z:45:ILE:HG21	2.47	0.49
1:p:114:ALA:O	1:p:118:LYS:N	2.45	0.49
1:0:179:LEU:HG	1:0:183:LEU:HD12	1.92	0.49
1:U:32:LEU:HD22	1:U:57:LEU:HD22	1.93	0.49
1:U:178:PRO:O	1:U:182:LEU:HD12	2.12	0.49
1:4:17:HIS:O	1:4:18:GLU:C	2.53	0.49
1:Y:17:HIS:O	1:Y:18:GLU:C	2.53	0.49
1:Y:114:ALA:O	1:Y:118:LYS:N	2.45	0.49
1:Z:52:GLU:OE2	1:Z:56:ARG:NE	2.44	0.49
1:a:32:LEU:HD22	1:a:57:LEU:HD22	1.93	0.49
1:A:77:GLU:OE1	1:A:77:GLU:N	2.42	0.49
1:C:44:LEU:HD22	1:x:14:LYS:HB2	1.94	0.49
1:F:114:ALA:O	1:F:118:LYS:N	2.45	0.49
1:x:120:TYR:HB3	1:x:218:GLU:HB2	1.95	0.49
1:d:178:PRO:O	1:d:179:LEU:C	2.53	0.49
1:o:160:ILE:HG21	1:o:193:GLU:HB3	1.93	0.49
1:U:14:LYS:HB2	1:K:44:LEU:HD22	1.94	0.49
1:U:120:TYR:HB3	1:U:218:GLU:HB2	1.95	0.49
1:L:160:ILE:HG21	1:L:193:GLU:HB3	1.93	0.49
1:h:114:ALA:O	1:h:118:LYS:N	2.45	0.49
1:3:177:GLU:CB	1:3:182:LEU:HD11	2.42	0.49
1:i:17:HIS:O	1:i:18:GLU:C	2.53	0.49
1:t:114:ALA:O	1:t:118:LYS:N	2.45	0.49
1:j:178:PRO:O	1:j:182:LEU:HD12	2.12	0.49
1:k:17:HIS:O	1:k:18:GLU:C	2.53	0.49
1:v:177:GLU:N	1:v:177:GLU:OE1	2.44	0.49
1:a:160:ILE:HG21	1:a:193:GLU:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:160:ILE:HG21	1:l:193:GLU:HB3	1.94	0.49
1:7:77:GLU:OE1	1:7:77:GLU:N	2.42	0.49
1:A:114:ALA:O	1:A:118:LYS:N	2.45	0.49
1:A:160:ILE:HG21	1:A:193:GLU:HB3	1.94	0.49
1:B:187:ALA:O	1:B:191:ILE:HG12	2.13	0.49
1:G:187:ALA:O	1:G:191:ILE:HG12	2.13	0.49
1:y:114:ALA:O	1:y:118:LYS:N	2.45	0.49
1:y:187:ALA:O	1:y:191:ILE:HG12	2.13	0.49
1:o:52:GLU:OE2	1:o:56:ARG:NE	2.44	0.49
1:I:187:ALA:O	1:I:191:ILE:HG12	2.13	0.49
1:T:93:GLU:HA	1:T:101:LYS:HZ1	1.77	0.49
1:f:114:ALA:O	1:f:118:LYS:N	2.45	0.49
1:1:114:ALA:O	1:1:118:LYS:N	2.45	0.49
1:1:187:ALA:O	1:1:191:ILE:HG12	2.13	0.49
1:V:177:GLU:CB	1:V:182:LEU:HD11	2.43	0.49
1:r:77:GLU:OE1	1:r:77:GLU:N	2.42	0.49
1:2:114:ALA:O	1:2:118:LYS:N	2.45	0.49
1:3:187:ALA:O	1:3:191:ILE:HG12	2.13	0.49
1:4:178:PRO:O	1:4:179:LEU:C	2.53	0.49
1:N:114:ALA:O	1:N:118:LYS:N	2.45	0.49
1:j:17:HIS:CE1	1:a:45:ILE:HG21	2.47	0.49
1:j:44:LEU:HD22	1:6:14:LYS:HB2	1.94	0.49
1:O:120:TYR:HB3	1:O:218:GLU:HB2	1.94	0.49
1:v:187:ALA:O	1:v:191:ILE:HG12	2.13	0.49
1:P:52:GLU:OE2	1:P:56:ARG:NE	2.44	0.49
1:P:178:PRO:O	1:P:179:LEU:C	2.52	0.49
1:a:17:HIS:O	1:a:18:GLU:C	2.53	0.49
1:B:114:ALA:O	1:B:118:LYS:N	2.45	0.49
1:C:187:ALA:O	1:C:191:ILE:HG12	2.13	0.49
1:D:178:PRO:O	1:D:182:LEU:HD12	2.12	0.49
1:Q:114:ALA:O	1:Q:118:LYS:N	2.45	0.49
1:G:177:GLU:OE1	1:G:177:GLU:N	2.44	0.49
1:c:120:TYR:HB3	1:c:218:GLU:HB2	1.95	0.49
1:S:177:GLU:HB3	1:S:178:PRO:CD	2.42	0.49
1:d:52:GLU:OE2	1:d:56:ARG:NE	2.44	0.49
1:d:114:ALA:O	1:d:118:LYS:N	2.45	0.49
1:T:14:LYS:HB2	1:Z:44:LEU:HD22	1.94	0.49
1:p:32:LEU:HD22	1:p:57:LEU:HD22	1.93	0.49
1:U:52:GLU:OE2	1:U:56:ARG:NE	2.44	0.49
1:q:114:ALA:O	1:q:118:LYS:N	2.45	0.49
1:1:156:LYS:HA	1:1:159:LYS:HZ3	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:177:GLU:CB	1:1:182:LEU:HD11	2.43	0.49
1:K:187:ALA:O	1:K:191:ILE:HG12	2.13	0.49
1:V:160:ILE:HG21	1:V:193:GLU:HB3	1.93	0.49
1:2:187:ALA:O	1:2:191:ILE:HG12	2.13	0.49
1:W:178:PRO:O	1:W:182:LEU:HD12	2.12	0.49
1:h:32:LEU:HD22	1:h:57:LEU:HD22	1.93	0.49
1:h:120:TYR:HB3	1:h:218:GLU:HB2	1.94	0.49
1:3:178:PRO:O	1:3:182:LEU:HD12	2.12	0.49
1:M:187:ALA:O	1:M:191:ILE:HG12	2.13	0.49
1:t:44:LEU:HD22	1:7:14:LYS:HB2	1.94	0.49
1:j:45:ILE:HG21	1:6:17:HIS:CE1	2.48	0.49
1:5:17:HIS:O	1:5:18:GLU:C	2.53	0.49
1:Z:32:LEU:HD22	1:Z:57:LEU:HD22	1.93	0.49
1:k:114:ALA:O	1:k:118:LYS:N	2.45	0.49
1:k:187:ALA:O	1:k:191:ILE:HG12	2.13	0.49
1:l:77:GLU:OE1	1:l:77:GLU:N	2.42	0.49
1:7:177:GLU:HB3	1:7:178:PRO:CD	2.42	0.49
1:B:44:LEU:HD22	1:y:14:LYS:HB2	1.94	0.49
1:D:120:TYR:HB3	1:D:218:GLU:HB2	1.95	0.49
1:D:160:ILE:HG21	1:D:193:GLU:HB3	1.93	0.49
1:b:114:ALA:O	1:b:118:LYS:N	2.45	0.49
1:b:187:ALA:O	1:b:191:ILE:HG12	2.13	0.49
1:d:32:LEU:HD22	1:d:57:LEU:HD22	1.93	0.49
1:z:77:GLU:OE1	1:z:77:GLU:N	2.42	0.49
1:p:120:TYR:HB3	1:p:218:GLU:HB2	1.95	0.49
1:0:120:TYR:HB3	1:0:218:GLU:HB2	1.95	0.49
1:0:177:GLU:CB	1:0:182:LEU:HD11	2.42	0.49
1:1:178:PRO:O	1:1:182:LEU:HD12	2.12	0.49
1:K:177:GLU:CB	1:K:182:LEU:HD11	2.42	0.49
1:r:160:ILE:HG21	1:r:193:GLU:HB3	1.93	0.49
1:L:93:GLU:HA	1:L:101:LYS:HZ1	1.77	0.49
1:s:160:ILE:HG21	1:s:193:GLU:HB3	1.93	0.49
1:M:77:GLU:OE1	1:M:77:GLU:N	2.42	0.49
1:i:187:ALA:O	1:i:191:ILE:HG12	2.13	0.49
1:4:177:GLU:CB	1:4:182:LEU:HD11	2.42	0.49
1:N:32:LEU:HD22	1:N:57:LEU:HD22	1.93	0.49
1:j:77:GLU:OE1	1:j:77:GLU:N	2.42	0.49
1:j:202:ARG:O	1:j:205:ALA:N	2.45	0.49
1:5:160:ILE:HG21	1:5:193:GLU:HB3	1.93	0.49
1:k:32:LEU:HD22	1:k:57:LEU:HD22	1.93	0.49
1:v:177:GLU:CB	1:v:182:LEU:HD11	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:52:GLU:OE2	1:a:56:ARG:NE	2.44	0.49
1:a:178:PRO:O	1:a:182:LEU:HD12	2.12	0.49
1:w:120:TYR:HB3	1:w:218:GLU:HB2	1.95	0.49
1:C:120:TYR:HB3	1:C:218:GLU:HB2	1.95	0.49
1:Q:77:GLU:OE1	1:Q:77:GLU:N	2.42	0.49
1:b:14:LYS:HB2	1:V:44:LEU:HD22	1.95	0.49
1:m:187:ALA:O	1:m:191:ILE:HG12	2.13	0.49
1:x:52:GLU:OE2	1:x:56:ARG:NE	2.44	0.49
1:n:32:LEU:HD22	1:n:57:LEU:HD22	1.93	0.49
1:H:120:TYR:HB3	1:H:218:GLU:HB2	1.95	0.49
1:o:17:HIS:O	1:o:18:GLU:C	2.53	0.49
1:p:177:GLU:HB3	1:p:178:PRO:CD	2.41	0.49
1:U:187:ALA:O	1:U:191:ILE:HG12	2.13	0.49
1:f:17:HIS:O	1:f:18:GLU:C	2.53	0.49
1:K:120:TYR:HB3	1:K:218:GLU:HB2	1.95	0.49
1:V:120:TYR:HB3	1:V:218:GLU:HB2	1.95	0.49
1:s:120:TYR:HB3	1:s:218:GLU:HB2	1.95	0.49
1:s:179:LEU:HG	1:s:183:LEU:HD12	1.93	0.49
1:X:187:ALA:O	1:X:191:ILE:HG12	2.13	0.49
1:i:160:ILE:HG21	1:i:193:GLU:HB3	1.93	0.49
1:t:32:LEU:HD22	1:t:57:LEU:HD22	1.93	0.49
1:Y:52:GLU:OE2	1:Y:56:ARG:NE	2.44	0.49
1:Y:177:GLU:OE1	1:Y:177:GLU:N	2.44	0.49
1:Y:179:LEU:HG	1:Y:183:LEU:HD12	1.93	0.49
1:Y:187:ALA:O	1:Y:191:ILE:HG12	2.13	0.49
1:j:187:ALA:O	1:j:191:ILE:HG12	2.13	0.49
1:u:187:ALA:O	1:u:191:ILE:HG12	2.13	0.49
1:5:187:ALA:O	1:5:191:ILE:HG12	2.13	0.49
1:k:120:TYR:HB3	1:k:218:GLU:HB2	1.94	0.49
1:P:32:LEU:HD22	1:P:57:LEU:HD22	1.93	0.49
1:A:32:LEU:HD22	1:A:57:LEU:HD22	1.93	0.49
1:D:177:GLU:CB	1:D:182:LEU:HD11	2.43	0.49
1:D:187:ALA:O	1:D:191:ILE:HG12	2.13	0.49
1:E:114:ALA:O	1:E:118:LYS:N	2.45	0.49
1:E:160:ILE:HG21	1:E:193:GLU:HB3	1.93	0.49
1:E:187:ALA:O	1:E:191:ILE:HG12	2.13	0.49
1:b:45:ILE:HG21	1:3:17:HIS:CE1	2.48	0.49
1:y:120:TYR:HB3	1:y:218:GLU:HB2	1.95	0.49
1:y:160:ILE:HG21	1:y:193:GLU:HB3	1.93	0.49
1:H:187:ALA:O	1:H:191:ILE:HG12	2.13	0.49
1:S:93:GLU:HA	1:S:101:LYS:HZ2	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:177:GLU:CB	1:o:182:LEU:HD11	2.43	0.49
1:T:77:GLU:OE1	1:T:77:GLU:N	2.42	0.49
1:0:187:ALA:O	1:0:191:ILE:HG12	2.13	0.49
1:J:187:ALA:O	1:J:191:ILE:HG12	2.13	0.49
1:V:77:GLU:OE1	1:V:77:GLU:N	2.42	0.49
1:V:187:ALA:O	1:V:191:ILE:HG12	2.13	0.49
1:g:160:ILE:HG21	1:g:193:GLU:HB3	1.94	0.49
1:r:32:LEU:HD22	1:r:57:LEU:HD22	1.93	0.49
1:2:160:ILE:HG21	1:2:193:GLU:HB3	1.94	0.49
1:2:178:PRO:O	1:2:179:LEU:C	2.54	0.49
1:X:120:TYR:HB3	1:X:218:GLU:HB2	1.95	0.49
1:X:178:PRO:O	1:X:179:LEU:C	2.56	0.49
1:N:161:GLY:HA2	1:N:164:LEU:HD12	1.95	0.49
1:6:177:GLU:CB	1:6:182:LEU:HD11	2.42	0.49
1:P:114:ALA:O	1:P:118:LYS:N	2.45	0.49
1:w:178:PRO:O	1:w:182:LEU:HD12	2.12	0.49
1:B:160:ILE:HG21	1:B:193:GLU:HB3	1.93	0.49
1:B:178:PRO:O	1:B:179:LEU:C	2.54	0.49
1:F:178:PRO:O	1:F:179:LEU:C	2.54	0.49
1:m:120:TYR:HB3	1:m:218:GLU:HB2	1.94	0.49
1:x:178:PRO:O	1:x:182:LEU:HD12	2.13	0.49
1:x:187:ALA:O	1:x:191:ILE:HG12	2.13	0.49
1:G:177:GLU:CB	1:G:182:LEU:HD11	2.42	0.49
1:R:178:PRO:O	1:R:182:LEU:HD12	2.12	0.49
1:n:120:TYR:HB3	1:n:218:GLU:HB2	1.94	0.49
1:o:178:PRO:O	1:o:182:LEU:HD12	2.12	0.49
1:z:187:ALA:O	1:z:191:ILE:HG12	2.13	0.49
1:T:187:ALA:O	1:T:191:ILE:HG12	2.13	0.49
1:e:178:PRO:O	1:e:182:LEU:HD12	2.13	0.49
1:J:114:ALA:O	1:J:118:LYS:N	2.45	0.49
1:q:77:GLU:OE1	1:q:77:GLU:N	2.42	0.49
1:g:187:ALA:O	1:g:191:ILE:HG12	2.13	0.49
1:r:187:ALA:O	1:r:191:ILE:HG12	2.13	0.49
1:L:77:GLU:OE1	1:L:77:GLU:N	2.42	0.49
1:s:177:GLU:CB	1:s:182:LEU:HD11	2.42	0.49
1:s:187:ALA:O	1:s:191:ILE:HG12	2.13	0.49
1:i:177:GLU:HB3	1:i:182:LEU:HD11	1.95	0.49
1:t:161:GLY:HA2	1:t:164:LEU:HD12	1.95	0.49
1:j:177:GLU:CB	1:j:182:LEU:HD11	2.43	0.49
1:Z:120:TYR:HB3	1:Z:218:GLU:HB2	1.95	0.49
1:6:32:LEU:HD22	1:6:57:LEU:HD22	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:177:GLU:CB	1:a:182:LEU:HD11	2.43	0.49
1:w:187:ALA:O	1:w:191:ILE:HG12	2.13	0.49
1:A:120:TYR:HB3	1:A:218:GLU:HB2	1.95	0.49
1:A:187:ALA:O	1:A:191:ILE:HG12	2.13	0.49
1:E:178:PRO:O	1:E:179:LEU:C	2.56	0.49
1:F:17:HIS:O	1:F:18:GLU:C	2.53	0.49
1:Q:44:LEU:HD22	1:n:14:LYS:HB2	1.95	0.49
1:Q:161:GLY:HA2	1:Q:164:LEU:HD12	1.95	0.49
1:x:45:ILE:HG21	1:J:17:HIS:CE1	2.48	0.49
1:R:32:LEU:HD22	1:R:57:LEU:HD22	1.93	0.49
1:y:161:GLY:HA2	1:y:164:LEU:HD12	1.95	0.49
1:z:178:PRO:O	1:z:179:LEU:C	2.56	0.49
1:I:178:PRO:O	1:I:182:LEU:HD12	2.12	0.49
1:p:187:ALA:O	1:p:191:ILE:HG12	2.13	0.49
1:0:160:ILE:HG21	1:0:193:GLU:HB3	1.94	0.49
1:J:120:TYR:HB3	1:J:218:GLU:HB2	1.95	0.49
1:f:178:PRO:O	1:f:179:LEU:C	2.54	0.49
1:q:161:GLY:HA2	1:q:164:LEU:HD12	1.95	0.49
1:r:120:TYR:HB3	1:r:218:GLU:HB2	1.94	0.49
1:i:14:LYS:HB2	1:P:44:LEU:HD22	1.95	0.49
1:i:178:PRO:O	1:i:182:LEU:HD12	2.12	0.49
1:4:187:ALA:O	1:4:191:ILE:HG12	2.13	0.49
1:j:120:TYR:HB3	1:j:218:GLU:HB2	1.95	0.49
1:u:120:TYR:HB3	1:u:218:GLU:HB2	1.95	0.49
1:5:178:PRO:O	1:5:182:LEU:HD12	2.12	0.49
1:O:187:ALA:O	1:O:191:ILE:HG12	2.13	0.49
1:k:177:GLU:HB3	1:k:178:PRO:CD	2.42	0.49
1:D:77:GLU:OE1	1:D:77:GLU:N	2.42	0.49
1:E:14:LYS:HB2	1:H:44:LEU:HD22	1.94	0.49
1:b:161:GLY:HA2	1:b:164:LEU:HD12	1.95	0.49
1:m:114:ALA:O	1:m:118:LYS:N	2.45	0.49
1:G:161:GLY:HA2	1:G:164:LEU:HD12	1.95	0.49
1:R:45:ILE:HG21	1:o:17:HIS:CE1	2.48	0.49
1:c:45:ILE:HG21	1:4:17:HIS:CE1	2.48	0.49
1:c:187:ALA:O	1:c:191:ILE:HG12	2.13	0.49
1:y:177:GLU:HB3	1:y:178:PRO:CD	2.42	0.49
1:S:187:ALA:O	1:S:191:ILE:HG12	2.13	0.49
1:d:178:PRO:O	1:d:182:LEU:HD12	2.13	0.49
1:o:161:GLY:HA2	1:o:164:LEU:HD12	1.95	0.49
1:I:161:GLY:HA2	1:I:164:LEU:HD12	1.95	0.49
1:T:120:TYR:HB3	1:T:218:GLU:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:187:ALA:O	1:e:191:ILE:HG12	2.13	0.49
1:q:187:ALA:O	1:q:191:ILE:HG12	2.13	0.49
1:1:161:GLY:HA2	1:1:164:LEU:HD12	1.95	0.49
1:L:120:TYR:HB3	1:L:218:GLU:HB2	1.94	0.49
1:L:187:ALA:O	1:L:191:ILE:HG12	2.13	0.49
1:W:187:ALA:O	1:W:191:ILE:HG12	2.13	0.49
1:3:161:GLY:HA2	1:3:164:LEU:HD12	1.95	0.49
1:M:120:TYR:HB3	1:M:218:GLU:HB2	1.95	0.49
1:4:52:GLU:OE2	1:4:56:ARG:NE	2.44	0.49
1:4:120:TYR:HB3	1:4:218:GLU:HB2	1.95	0.49
1:u:178:PRO:O	1:u:179:LEU:C	2.56	0.49
1:k:160:ILE:HG21	1:k:193:GLU:HB3	1.94	0.49
1:k:161:GLY:HA2	1:k:164:LEU:HD12	1.95	0.49
1:v:161:GLY:HA2	1:v:164:LEU:HD12	1.95	0.49
1:P:187:ALA:O	1:P:191:ILE:HG12	2.13	0.49
1:a:161:GLY:HA2	1:a:164:LEU:HD12	1.95	0.49
1:7:93:GLU:HA	1:7:101:LYS:HZ2	1.78	0.49
1:C:17:HIS:CE1	1:J:45:ILE:HG21	2.47	0.48
1:D:17:HIS:O	1:D:18:GLU:C	2.53	0.48
1:F:17:HIS:CE1	1:y:45:ILE:HG21	2.48	0.48
1:Q:178:PRO:O	1:Q:182:LEU:HD12	2.13	0.48
1:b:17:HIS:O	1:b:18:GLU:C	2.53	0.48
1:b:178:PRO:O	1:b:179:LEU:C	2.56	0.48
1:c:14:LYS:HB2	1:W:44:LEU:HD22	1.95	0.48
1:n:114:ALA:O	1:n:118:LYS:N	2.45	0.48
1:o:44:LEU:HD22	1:M:14:LYS:HB2	1.95	0.48
1:o:187:ALA:O	1:o:191:ILE:HG12	2.13	0.48
1:p:45:ILE:HG21	1:N:17:HIS:CE1	2.48	0.48
1:0:32:LEU:HD22	1:0:57:LEU:HD22	1.93	0.48
1:1:178:PRO:O	1:1:179:LEU:C	2.56	0.48
1:g:200:ASP:OD2	1:g:200:ASP:N	2.46	0.48
1:X:52:GLU:OE2	1:X:56:ARG:NE	2.44	0.48
1:i:161:GLY:HA2	1:i:164:LEU:HD12	1.95	0.48
1:t:227:ARG:O	1:t:231:GLU:HG2	2.13	0.48
1:N:227:ARG:O	1:N:231:GLU:HG2	2.14	0.48
1:Y:120:TYR:HB3	1:Y:218:GLU:HB2	1.95	0.48
1:Y:178:PRO:O	1:Y:182:LEU:HD12	2.13	0.48
1:P:120:TYR:HB3	1:P:218:GLU:HB2	1.95	0.48
1:P:178:PRO:O	1:P:182:LEU:HD12	2.13	0.48
1:l:178:PRO:O	1:l:179:LEU:C	2.56	0.48
1:l:187:ALA:O	1:l:191:ILE:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:178:PRO:O	1:D:179:LEU:C	2.56	0.48
1:F:187:ALA:O	1:F:191:ILE:HG12	2.13	0.48
1:Q:187:ALA:O	1:Q:191:ILE:HG12	2.13	0.48
1:m:17:HIS:CE1	1:U:45:ILE:HG21	2.48	0.48
1:n:187:ALA:O	1:n:191:ILE:HG12	2.13	0.48
1:S:177:GLU:CB	1:S:182:LEU:HD11	2.44	0.48
1:S:227:ARG:O	1:S:231:GLU:HG2	2.14	0.48
1:d:120:TYR:HB3	1:d:218:GLU:HB2	1.95	0.48
1:d:160:ILE:HG21	1:d:193:GLU:HB3	1.94	0.48
1:o:93:GLU:HA	1:o:101:LYS:HZ2	1.79	0.48
1:z:32:LEU:HD22	1:z:57:LEU:HD22	1.93	0.48
1:z:120:TYR:HB3	1:z:218:GLU:HB2	1.95	0.48
1:I:177:GLU:CB	1:I:182:LEU:HD11	2.43	0.48
1:e:161:GLY:HA2	1:e:164:LEU:HD12	1.95	0.48
1:p:77:GLU:OE1	1:p:77:GLU:N	2.42	0.48
1:q:93:GLU:HA	1:q:101:LYS:HZ1	1.78	0.48
1:1:227:ARG:O	1:1:231:GLU:HG2	2.14	0.48
1:V:202:ARG:O	1:V:205:ALA:N	2.44	0.48
1:g:178:PRO:O	1:g:179:LEU:C	2.56	0.48
1:r:161:GLY:HA2	1:r:164:LEU:HD12	1.95	0.48
1:L:227:ARG:O	1:L:231:GLU:HG2	2.14	0.48
1:W:161:GLY:HA2	1:W:164:LEU:HD12	1.95	0.48
1:h:187:ALA:O	1:h:191:ILE:HG12	2.13	0.48
1:s:32:LEU:HD22	1:s:57:LEU:HD22	1.93	0.48
1:X:32:LEU:HD22	1:X:57:LEU:HD22	1.93	0.48
1:t:177:GLU:HB3	1:t:178:PRO:CD	2.42	0.48
1:u:32:LEU:HD22	1:u:57:LEU:HD22	1.93	0.48
1:u:52:GLU:OE2	1:u:56:ARG:NE	2.44	0.48
1:5:161:GLY:HA2	1:5:164:LEU:HD12	1.95	0.48
1:Z:114:ALA:O	1:Z:118:LYS:N	2.45	0.48
1:a:187:ALA:O	1:a:191:ILE:HG12	2.13	0.48
1:l:32:LEU:HD22	1:l:57:LEU:HD22	1.93	0.48
1:7:187:ALA:O	1:7:191:ILE:HG12	2.13	0.48
1:A:161:GLY:HA2	1:A:164:LEU:HD12	1.95	0.48
1:b:227:ARG:O	1:b:231:GLU:HG2	2.14	0.48
1:x:93:GLU:HA	1:x:101:LYS:HZ2	1.79	0.48
1:G:178:PRO:O	1:G:182:LEU:HD12	2.13	0.48
1:G:227:ARG:O	1:G:231:GLU:HG2	2.14	0.48
1:y:68:LYS:O	1:y:72:GLU:HG3	2.14	0.48
1:S:45:ILE:HG21	1:p:17:HIS:CE1	2.48	0.48
1:d:187:ALA:O	1:d:191:ILE:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:227:ARG:O	1:z:231:GLU:HG2	2.14	0.48
1:I:114:ALA:O	1:I:118:LYS:N	2.45	0.48
1:T:227:ARG:O	1:T:231:GLU:HG2	2.14	0.48
1:p:177:GLU:CB	1:p:182:LEU:HD11	2.43	0.48
1:J:178:PRO:O	1:J:179:LEU:C	2.56	0.48
1:1:17:HIS:O	1:1:18:GLU:C	2.53	0.48
1:1:120:TYR:HB3	1:1:218:GLU:HB2	1.95	0.48
1:r:114:ALA:O	1:r:118:LYS:N	2.45	0.48
1:W:14:LYS:HB2	1:4:44:LEU:HD22	1.93	0.48
1:3:114:ALA:O	1:3:118:LYS:N	2.45	0.48
1:Y:177:GLU:CB	1:Y:182:LEU:HD11	2.42	0.48
1:Z:187:ALA:O	1:Z:191:ILE:HG12	2.13	0.48
1:v:227:ARG:O	1:v:231:GLU:HG2	2.14	0.48
1:P:160:ILE:HG21	1:P:193:GLU:HB3	1.93	0.48
1:a:178:PRO:O	1:a:179:LEU:C	2.56	0.48
1:l:120:TYR:HB3	1:l:218:GLU:HB2	1.95	0.48
1:7:120:TYR:HB3	1:7:218:GLU:HB2	1.95	0.48
1:7:227:ARG:O	1:7:231:GLU:HG2	2.14	0.48
1:A:178:PRO:O	1:A:182:LEU:HD12	2.12	0.48
1:A:227:ARG:O	1:A:231:GLU:HG2	2.13	0.48
1:E:120:TYR:HB3	1:E:218:GLU:HB2	1.94	0.48
1:b:17:HIS:CE1	1:V:45:ILE:HG21	2.47	0.48
1:m:68:LYS:O	1:m:72:GLU:HG3	2.14	0.48
1:c:68:LYS:O	1:c:72:GLU:HG3	2.14	0.48
1:S:120:TYR:HB3	1:S:218:GLU:HB2	1.95	0.48
1:o:68:LYS:O	1:o:72:GLU:HG3	2.14	0.48
1:I:52:GLU:OE2	1:I:56:ARG:NE	2.44	0.48
1:e:120:TYR:HB3	1:e:218:GLU:HB2	1.94	0.48
1:J:68:LYS:O	1:J:72:GLU:HG3	2.14	0.48
1:V:17:HIS:O	1:V:18:GLU:C	2.53	0.48
1:V:178:PRO:O	1:V:179:LEU:C	2.56	0.48
1:g:114:ALA:O	1:g:118:LYS:N	2.45	0.48
1:g:120:TYR:HB3	1:g:218:GLU:HB2	1.94	0.48
1:r:227:ARG:O	1:r:231:GLU:HG2	2.14	0.48
1:h:77:GLU:OE1	1:h:77:GLU:N	2.42	0.48
1:s:44:LEU:HD22	1:w:14:LYS:HB2	1.95	0.48
1:3:52:GLU:OE2	1:3:56:ARG:NE	2.44	0.48
1:X:227:ARG:O	1:X:231:GLU:HG2	2.13	0.48
1:t:177:GLU:CB	1:t:182:LEU:HD11	2.44	0.48
1:4:177:GLU:OE1	1:4:177:GLU:N	2.45	0.48
1:N:187:ALA:O	1:N:191:ILE:HG12	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:227:ARG:O	1:Y:231:GLU:HG2	2.13	0.48
1:O:68:LYS:O	1:O:72:GLU:HG3	2.14	0.48
1:v:14:LYS:HB2	1:l:44:LEU:HD22	1.95	0.48
1:6:120:TYR:HB3	1:6:218:GLU:HB2	1.94	0.48
1:l:161:GLY:HA2	1:l:164:LEU:HD12	1.95	0.48
1:C:17:HIS:O	1:C:18:GLU:C	2.53	0.48
1:b:120:TYR:HB3	1:b:218:GLU:HB2	1.95	0.48
1:b:160:ILE:HG21	1:b:193:GLU:HB3	1.93	0.48
1:m:178:PRO:O	1:m:179:LEU:C	2.56	0.48
1:x:227:ARG:O	1:x:231:GLU:HG2	2.14	0.48
1:R:227:ARG:O	1:R:231:GLU:HG2	2.14	0.48
1:e:68:LYS:O	1:e:72:GLU:HG3	2.14	0.48
1:p:177:GLU:HB2	1:p:182:LEU:HD11	1.95	0.48
1:0:178:PRO:O	1:0:182:LEU:HD12	2.13	0.48
1:0:227:ARG:O	1:0:231:GLU:HG2	2.14	0.48
1:U:68:LYS:O	1:U:72:GLU:HG3	2.14	0.48
1:U:227:ARG:O	1:U:231:GLU:HG2	2.14	0.48
1:V:227:ARG:O	1:V:231:GLU:HG2	2.14	0.48
1:2:120:TYR:HB3	1:2:218:GLU:HB2	1.94	0.48
1:W:68:LYS:O	1:W:72:GLU:HG3	2.14	0.48
1:h:227:ARG:O	1:h:231:GLU:HG2	2.14	0.48
1:s:227:ARG:O	1:s:231:GLU:HG2	2.14	0.48
1:t:177:GLU:HB2	1:t:182:LEU:HD11	1.96	0.48
1:t:187:ALA:O	1:t:191:ILE:HG12	2.13	0.48
1:4:68:LYS:O	1:4:72:GLU:HG3	2.14	0.48
1:4:178:PRO:O	1:4:182:LEU:HD12	2.14	0.48
1:N:177:GLU:HB3	1:N:178:PRO:CD	2.42	0.48
1:Y:68:LYS:O	1:Y:72:GLU:HG3	2.14	0.48
1:u:227:ARG:O	1:u:231:GLU:HG2	2.14	0.48
1:5:177:GLU:HB3	1:5:182:LEU:HD11	1.96	0.48
1:k:68:LYS:O	1:k:72:GLU:HG3	2.14	0.48
1:6:161:GLY:HA2	1:6:164:LEU:HD12	1.95	0.48
1:6:227:ARG:O	1:6:231:GLU:HG2	2.14	0.48
1:a:68:LYS:O	1:a:72:GLU:HG3	2.14	0.48
1:a:227:ARG:O	1:a:231:GLU:HG2	2.14	0.48
1:l:227:ARG:O	1:l:231:GLU:HG2	2.14	0.48
1:D:227:ARG:O	1:D:231:GLU:HG2	2.14	0.48
1:E:227:ARG:O	1:E:231:GLU:HG2	2.14	0.48
1:F:227:ARG:O	1:F:231:GLU:HG2	2.14	0.48
1:m:177:GLU:CB	1:m:182:LEU:HD11	2.44	0.48
1:x:68:LYS:O	1:x:72:GLU:HG3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:120:TYR:HB3	1:R:218:GLU:HB2	1.95	0.48
1:R:161:GLY:HA2	1:R:164:LEU:HD12	1.95	0.48
1:R:177:GLU:CB	1:R:182:LEU:HD11	2.43	0.48
1:n:44:LEU:HD22	1:L:14:LYS:HB2	1.96	0.48
1:n:178:PRO:O	1:n:182:LEU:HD12	2.12	0.48
1:H:17:HIS:CE1	1:0:45:ILE:HG21	2.48	0.48
1:H:227:ARG:O	1:H:231:GLU:HG2	2.14	0.48
1:d:156:LYS:HA	1:d:159:LYS:HZ3	1.78	0.48
1:o:178:PRO:O	1:o:179:LEU:C	2.56	0.48
1:o:200:ASP:OD2	1:o:200:ASP:N	2.43	0.48
1:o:227:ARG:O	1:o:231:GLU:HG2	2.14	0.48
1:z:161:GLY:HA2	1:z:164:LEU:HD12	1.95	0.48
1:T:68:LYS:O	1:T:72:GLU:HG3	2.14	0.48
1:p:68:LYS:O	1:p:72:GLU:HG3	2.14	0.48
1:p:227:ARG:O	1:p:231:GLU:HG2	2.14	0.48
1:U:77:GLU:OE1	1:U:77:GLU:N	2.42	0.48
1:U:177:GLU:HB3	1:U:182:LEU:HD11	1.96	0.48
1:f:120:TYR:HB3	1:f:218:GLU:HB2	1.95	0.48
1:f:187:ALA:O	1:f:191:ILE:HG12	2.13	0.48
1:g:45:ILE:HG21	1:s:17:HIS:CE1	2.49	0.48
1:r:177:GLU:HB3	1:r:182:LEU:HD11	1.95	0.48
1:L:68:LYS:O	1:L:72:GLU:HG3	2.14	0.48
1:h:45:ILE:HG21	1:t:17:HIS:CE1	2.48	0.48
1:h:177:GLU:HB3	1:h:178:PRO:CD	2.42	0.48
1:i:68:LYS:O	1:i:72:GLU:HG3	2.14	0.48
1:N:38:TYR:CE1	1:N:42:LYS:HD3	2.49	0.48
1:u:93:GLU:HA	1:u:101:LYS:HZ1	1.77	0.48
1:5:120:TYR:HB3	1:5:218:GLU:HB2	1.94	0.48
1:O:227:ARG:O	1:O:231:GLU:HG2	2.14	0.48
1:6:202:ARG:O	1:6:205:ALA:N	2.46	0.48
1:w:227:ARG:O	1:w:231:GLU:HG2	2.13	0.48
1:7:52:GLU:OE2	1:7:56:ARG:NE	2.44	0.48
1:7:161:GLY:HA2	1:7:164:LEU:HD12	1.95	0.48
1:7:177:GLU:CB	1:7:182:LEU:HD11	2.44	0.48
1:B:227:ARG:O	1:B:231:GLU:HG2	2.14	0.48
1:D:68:LYS:O	1:D:72:GLU:HG3	2.14	0.48
1:E:68:LYS:O	1:E:72:GLU:HG3	2.14	0.48
1:F:120:TYR:HB3	1:F:218:GLU:HB2	1.95	0.48
1:b:156:LYS:HA	1:b:159:LYS:HZ3	1.78	0.48
1:c:227:ARG:O	1:c:231:GLU:HG2	2.14	0.48
1:n:161:GLY:HA2	1:n:164:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:38:TYR:CE1	1:y:42:LYS:HD3	2.49	0.48
1:e:77:GLU:OE1	1:e:77:GLU:N	2.42	0.48
1:e:139:ALA:HA	1:e:142:LYS:HB2	1.96	0.48
1:e:227:ARG:O	1:e:231:GLU:HG2	2.14	0.48
1:f:177:GLU:CB	1:f:182:LEU:HD11	2.44	0.48
1:q:68:LYS:O	1:q:72:GLU:HG3	2.14	0.48
1:1:160:ILE:HG21	1:1:193:GLU:HB3	1.94	0.48
1:K:17:HIS:O	1:K:18:GLU:C	2.53	0.48
1:V:68:LYS:O	1:V:72:GLU:HG3	2.14	0.48
1:V:92:VAL:HG12	1:V:101:LYS:HZ2	1.78	0.48
1:g:68:LYS:O	1:g:72:GLU:HG3	2.14	0.48
1:W:120:TYR:HB3	1:W:218:GLU:HB2	1.95	0.48
1:W:227:ARG:O	1:W:231:GLU:HG2	2.14	0.48
1:h:68:LYS:O	1:h:72:GLU:HG3	2.14	0.48
1:4:227:ARG:O	1:4:231:GLU:HG2	2.14	0.48
1:N:52:GLU:OE2	1:N:56:ARG:NE	2.44	0.48
1:N:177:GLU:CB	1:N:182:LEU:HD11	2.44	0.48
1:5:68:LYS:O	1:5:72:GLU:HG3	2.14	0.48
1:w:77:GLU:OE1	1:w:77:GLU:N	2.42	0.48
1:B:120:TYR:HB3	1:B:218:GLU:HB2	1.95	0.48
1:C:139:ALA:HA	1:C:142:LYS:HB2	1.96	0.48
1:b:68:LYS:O	1:b:72:GLU:HG3	2.14	0.48
1:m:38:TYR:CE1	1:m:42:LYS:HD3	2.49	0.48
1:n:68:LYS:O	1:n:72:GLU:HG3	2.14	0.48
1:y:227:ARG:O	1:y:231:GLU:HG2	2.14	0.48
1:H:38:TYR:CE1	1:H:42:LYS:HD3	2.49	0.48
1:S:139:ALA:HA	1:S:142:LYS:HB2	1.96	0.48
1:S:200:ASP:OD2	1:S:200:ASP:N	2.47	0.48
1:p:38:TYR:CE1	1:p:42:LYS:HD3	2.49	0.48
1:f:227:ARG:O	1:f:231:GLU:HG2	2.14	0.48
1:q:178:PRO:O	1:q:182:LEU:HD12	2.14	0.48
1:1:68:LYS:O	1:1:72:GLU:HG3	2.14	0.48
1:K:68:LYS:O	1:K:72:GLU:HG3	2.14	0.48
1:K:139:ALA:HA	1:K:142:LYS:HB2	1.96	0.48
1:g:227:ARG:O	1:g:231:GLU:HG2	2.14	0.48
1:r:178:PRO:O	1:r:182:LEU:HD12	2.13	0.48
1:2:227:ARG:O	1:2:231:GLU:HG2	2.14	0.48
1:L:32:LEU:HD12	1:L:32:LEU:HA	1.76	0.48
1:W:139:ALA:HA	1:W:142:LYS:HB2	1.96	0.48
1:h:38:TYR:CE1	1:h:42:LYS:HD3	2.49	0.48
1:i:120:TYR:HB3	1:i:218:GLU:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:38:TYR:CE1	1:t:42:LYS:HD3	2.49	0.48
1:t:52:GLU:OE2	1:t:56:ARG:NE	2.44	0.48
1:Z:161:GLY:HA2	1:Z:164:LEU:HD12	1.95	0.48
1:Z:227:ARG:O	1:Z:231:GLU:HG2	2.13	0.48
1:k:38:TYR:CE1	1:k:42:LYS:HD3	2.49	0.48
1:k:227:ARG:O	1:k:231:GLU:HG2	2.14	0.48
1:6:187:ALA:O	1:6:191:ILE:HG12	2.13	0.48
1:7:139:ALA:HA	1:7:142:LYS:HB2	1.96	0.48
1:D:92:VAL:HG12	1:D:101:LYS:HZ2	1.78	0.48
1:D:161:GLY:HA2	1:D:164:LEU:HD12	1.95	0.48
1:F:177:GLU:CB	1:F:182:LEU:HD11	2.44	0.48
1:Q:68:LYS:O	1:Q:72:GLU:HG3	2.14	0.48
1:R:178:PRO:O	1:R:179:LEU:C	2.56	0.48
1:c:17:HIS:CE1	1:W:45:ILE:HG21	2.48	0.48
1:c:38:TYR:CE1	1:c:42:LYS:HD3	2.49	0.48
1:n:227:ARG:O	1:n:231:GLU:HG2	2.14	0.48
1:S:52:GLU:OE2	1:S:56:ARG:NE	2.44	0.48
1:S:161:GLY:HA2	1:S:164:LEU:HD12	1.95	0.48
1:d:38:TYR:CE1	1:d:42:LYS:HD3	2.49	0.48
1:o:120:TYR:HB3	1:o:218:GLU:HB2	1.95	0.48
1:e:177:GLU:HB3	1:e:182:LEU:HD11	1.95	0.48
1:J:38:TYR:CE1	1:J:42:LYS:HD3	2.49	0.48
1:q:139:ALA:HA	1:q:142:LYS:HB2	1.96	0.48
1:1:77:GLU:OE1	1:1:77:GLU:N	2.42	0.48
1:K:77:GLU:OE1	1:K:77:GLU:N	2.42	0.48
1:r:44:LEU:HD22	1:l:14:LYS:HB2	1.96	0.48
1:W:77:GLU:OE1	1:W:77:GLU:N	2.42	0.48
1:h:178:PRO:O	1:h:179:LEU:C	2.54	0.48
1:s:77:GLU:OE1	1:s:77:GLU:N	2.42	0.48
1:3:120:TYR:HB3	1:3:218:GLU:HB2	1.94	0.48
1:M:68:LYS:O	1:M:72:GLU:HG3	2.14	0.48
1:M:178:PRO:O	1:M:182:LEU:HD12	2.13	0.48
1:i:38:TYR:CE1	1:i:42:LYS:HD3	2.49	0.48
1:i:139:ALA:HA	1:i:142:LYS:HB2	1.96	0.48
1:O:38:TYR:CE1	1:O:42:LYS:HD3	2.49	0.48
1:Z:68:LYS:O	1:Z:72:GLU:HG3	2.14	0.48
1:P:38:TYR:CE1	1:P:42:LYS:HD3	2.49	0.48
1:a:120:TYR:HB3	1:a:218:GLU:HB2	1.95	0.48
1:l:139:ALA:HA	1:l:142:LYS:HB2	1.96	0.48
1:w:38:TYR:CE1	1:w:42:LYS:HD3	2.49	0.48
1:B:38:TYR:CE1	1:B:42:LYS:HD3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:139:ALA:HA	1:B:142:LYS:HB2	1.96	0.48
1:B:177:GLU:CB	1:B:182:LEU:HD11	2.43	0.48
1:C:68:LYS:O	1:C:72:GLU:HG3	2.14	0.48
1:E:161:GLY:HA2	1:E:164:LEU:HD12	1.95	0.48
1:Q:139:ALA:HA	1:Q:142:LYS:HB2	1.96	0.48
1:b:202:ARG:O	1:b:205:ALA:N	2.46	0.48
1:m:52:GLU:OE2	1:m:56:ARG:NE	2.44	0.48
1:x:139:ALA:HA	1:x:142:LYS:HB2	1.96	0.48
1:R:187:ALA:O	1:R:191:ILE:HG12	2.13	0.48
1:n:45:ILE:HG21	1:L:17:HIS:CE1	2.48	0.48
1:y:177:GLU:HB2	1:y:182:LEU:HD11	1.96	0.48
1:z:139:ALA:HA	1:z:142:LYS:HB2	1.96	0.48
1:I:68:LYS:O	1:I:72:GLU:HG3	2.14	0.48
1:I:120:TYR:HB3	1:I:218:GLU:HB2	1.95	0.48
1:T:200:ASP:OD2	1:T:200:ASP:N	2.45	0.48
1:e:45:ILE:HG21	1:O:17:HIS:CE1	2.48	0.48
1:0:77:GLU:OE1	1:0:77:GLU:N	2.42	0.48
1:U:139:ALA:HA	1:U:142:LYS:HB2	1.96	0.48
1:V:161:GLY:HA2	1:V:164:LEU:HD12	1.95	0.48
1:g:161:GLY:HA2	1:g:164:LEU:HD12	1.95	0.48
1:r:14:LYS:HB2	1:v:44:LEU:HD22	1.95	0.48
1:2:38:TYR:CE1	1:2:42:LYS:HD3	2.49	0.48
1:h:177:GLU:CB	1:h:182:LEU:HD11	2.43	0.48
1:4:38:TYR:CE1	1:4:42:LYS:HD3	2.49	0.48
1:Y:38:TYR:CE1	1:Y:42:LYS:HD3	2.49	0.48
1:j:68:LYS:O	1:j:72:GLU:HG3	2.14	0.48
1:5:38:TYR:CE1	1:5:42:LYS:HD3	2.49	0.48
1:5:139:ALA:HA	1:5:142:LYS:HB2	1.96	0.48
1:Z:178:PRO:O	1:Z:182:LEU:HD12	2.13	0.48
1:v:120:TYR:HB3	1:v:218:GLU:HB2	1.95	0.48
1:P:227:ARG:O	1:P:231:GLU:HG2	2.13	0.48
1:A:139:ALA:HA	1:A:142:LYS:HB2	1.96	0.47
1:B:68:LYS:O	1:B:72:GLU:HG3	2.14	0.47
1:B:177:GLU:HB2	1:B:182:LEU:HD11	1.96	0.47
1:C:77:GLU:OE1	1:C:77:GLU:N	2.42	0.47
1:C:161:GLY:HA2	1:C:164:LEU:HD12	1.95	0.47
1:C:178:PRO:O	1:C:182:LEU:HD12	2.13	0.47
1:Q:32:LEU:HD12	1:Q:32:LEU:HA	1.76	0.47
1:b:139:ALA:HA	1:b:142:LYS:HB2	1.96	0.47
1:m:45:ILE:HG21	1:K:17:HIS:CE1	2.48	0.47
1:x:77:GLU:OE1	1:x:77:GLU:N	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:120:TYR:HB3	1:G:218:GLU:HB2	1.95	0.47
1:n:17:HIS:O	1:n:18:GLU:C	2.53	0.47
1:H:77:GLU:OE1	1:H:77:GLU:N	2.42	0.47
1:e:44:LEU:HD22	1:O:14:LYS:HB2	1.96	0.47
1:J:52:GLU:OE2	1:J:56:ARG:NE	2.44	0.47
1:f:44:LEU:HD22	1:2:14:LYS:HB2	1.96	0.47
1:K:227:ARG:O	1:K:231:GLU:HG2	2.14	0.47
1:2:139:ALA:HA	1:2:142:LYS:HB2	1.96	0.47
1:3:68:LYS:O	1:3:72:GLU:HG3	2.14	0.47
1:M:139:ALA:HA	1:M:142:LYS:HB2	1.96	0.47
1:M:177:GLU:CB	1:M:182:LEU:HD11	2.44	0.47
1:M:202:ARG:O	1:M:205:ALA:N	2.47	0.47
1:N:120:TYR:HB3	1:N:218:GLU:HB2	1.94	0.47
1:j:139:ALA:HA	1:j:142:LYS:HB2	1.96	0.47
1:u:45:ILE:HG21	1:P:17:HIS:CE1	2.49	0.47
1:u:177:GLU:CB	1:u:182:LEU:HD11	2.44	0.47
1:B:200:ASP:OD2	1:B:200:ASP:N	2.47	0.47
1:C:227:ARG:O	1:C:231:GLU:HG2	2.14	0.47
1:E:38:TYR:CE1	1:E:42:LYS:HD3	2.49	0.47
1:F:32:LEU:HD12	1:F:32:LEU:HA	1.76	0.47
1:b:38:TYR:CE1	1:b:42:LYS:HD3	2.49	0.47
1:b:77:GLU:OE1	1:b:77:GLU:N	2.42	0.47
1:m:161:GLY:HA2	1:m:164:LEU:HD12	1.95	0.47
1:G:38:TYR:CE1	1:G:42:LYS:HD3	2.49	0.47
1:n:154:ARG:HG2	1:n:203:LEU:HD12	1.97	0.47
1:d:17:HIS:CE1	1:X:45:ILE:HG21	2.49	0.47
1:T:161:GLY:HA2	1:T:164:LEU:HD12	1.95	0.47
1:0:161:GLY:HA2	1:0:164:LEU:HD12	1.95	0.47
1:J:161:GLY:HA2	1:J:164:LEU:HD12	1.95	0.47
1:f:161:GLY:HA2	1:f:164:LEU:HD12	1.95	0.47
1:q:120:TYR:HB3	1:q:218:GLU:HB2	1.95	0.47
1:1:139:ALA:HA	1:1:142:LYS:HB2	1.96	0.47
1:K:38:TYR:CE1	1:K:42:LYS:HD3	2.49	0.47
1:K:178:PRO:O	1:K:182:LEU:HD12	2.13	0.47
1:r:68:LYS:O	1:r:72:GLU:HG3	2.14	0.47
1:r:139:ALA:HA	1:r:142:LYS:HB2	1.96	0.47
1:t:68:LYS:O	1:t:72:GLU:HG3	2.14	0.47
1:t:120:TYR:HB3	1:t:218:GLU:HB2	1.94	0.47
1:t:139:ALA:HA	1:t:142:LYS:HB2	1.96	0.47
1:N:177:GLU:HB2	1:N:182:LEU:HD11	1.97	0.47
1:Z:178:PRO:O	1:Z:179:LEU:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:38:TYR:CE1	1:v:42:LYS:HD3	2.49	0.47
1:6:178:PRO:O	1:6:179:LEU:C	2.56	0.47
1:A:68:LYS:O	1:A:72:GLU:HG3	2.14	0.47
1:C:38:TYR:CE1	1:C:42:LYS:HD3	2.49	0.47
1:F:161:GLY:HA2	1:F:164:LEU:HD12	1.95	0.47
1:Q:227:ARG:O	1:Q:231:GLU:HG2	2.14	0.47
1:b:177:GLU:HB3	1:b:182:LEU:HD11	1.96	0.47
1:x:161:GLY:HA2	1:x:164:LEU:HD12	1.95	0.47
1:G:14:LYS:HB2	1:z:44:LEU:HD22	1.96	0.47
1:d:161:GLY:HA2	1:d:164:LEU:HD12	1.95	0.47
1:d:227:ARG:O	1:d:231:GLU:HG2	2.14	0.47
1:I:32:LEU:HD12	1:I:32:LEU:HA	1.76	0.47
1:I:227:ARG:O	1:I:231:GLU:HG2	2.14	0.47
1:T:32:LEU:HD12	1:T:32:LEU:HA	1.76	0.47
1:0:139:ALA:HA	1:0:142:LYS:HB2	1.96	0.47
1:1:38:TYR:CE1	1:1:42:LYS:HD3	2.49	0.47
1:K:161:GLY:HA2	1:K:164:LEU:HD12	1.95	0.47
1:V:38:TYR:CE1	1:V:42:LYS:HD3	2.49	0.47
1:V:177:GLU:HB3	1:V:182:LEU:HD11	1.95	0.47
1:g:14:LYS:HB2	1:w:44:LEU:HD22	1.96	0.47
1:g:38:TYR:CE1	1:g:42:LYS:HD3	2.49	0.47
1:g:177:GLU:CB	1:g:182:LEU:HD11	2.44	0.47
1:2:68:LYS:O	1:2:72:GLU:HG3	2.14	0.47
1:2:161:GLY:HA2	1:2:164:LEU:HD12	1.95	0.47
1:s:52:GLU:OE2	1:s:56:ARG:NE	2.44	0.47
1:3:178:PRO:O	1:3:179:LEU:C	2.56	0.47
1:X:161:GLY:HA2	1:X:164:LEU:HD12	1.95	0.47
1:N:139:ALA:HA	1:N:142:LYS:HB2	1.96	0.47
1:u:161:GLY:HA2	1:u:164:LEU:HD12	1.95	0.47
1:O:178:PRO:O	1:O:179:LEU:C	2.56	0.47
1:Z:154:ARG:HG2	1:Z:203:LEU:HD12	1.97	0.47
1:P:161:GLY:HA2	1:P:164:LEU:HD12	1.95	0.47
1:P:171:ARG:NH1	1:P:177:GLU:OE2	2.48	0.47
1:D:38:TYR:CE1	1:D:42:LYS:HD3	2.49	0.47
1:Q:38:TYR:CE1	1:Q:42:LYS:HD3	2.49	0.47
1:R:68:LYS:O	1:R:72:GLU:HG3	2.14	0.47
1:c:178:PRO:O	1:c:179:LEU:C	2.56	0.47
1:n:139:ALA:HA	1:n:142:LYS:HB2	1.96	0.47
1:H:161:GLY:HA2	1:H:164:LEU:HD12	1.95	0.47
1:S:38:TYR:CE1	1:S:42:LYS:HD3	2.49	0.47
1:S:44:LEU:HD22	1:p:14:LYS:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:171:ARG:NH1	1:d:177:GLU:OE2	2.48	0.47
1:z:200:ASP:OD2	1:z:200:ASP:N	2.47	0.47
1:0:52:GLU:OE2	1:0:56:ARG:NE	2.44	0.47
1:J:177:GLU:CB	1:J:182:LEU:HD11	2.45	0.47
1:q:227:ARG:O	1:q:231:GLU:HG2	2.14	0.47
1:2:177:GLU:CB	1:2:182:LEU:HD11	2.44	0.47
1:h:161:GLY:HA2	1:h:164:LEU:HD12	1.95	0.47
1:s:139:ALA:HA	1:s:142:LYS:HB2	1.96	0.47
1:3:227:ARG:O	1:3:231:GLU:HG2	2.14	0.47
1:M:38:TYR:CE1	1:M:42:LYS:HD3	2.49	0.47
1:N:68:LYS:O	1:N:72:GLU:HG3	2.14	0.47
1:j:38:TYR:CE1	1:j:42:LYS:HD3	2.49	0.47
1:O:52:GLU:OE2	1:O:56:ARG:NE	2.44	0.47
1:Z:139:ALA:HA	1:Z:142:LYS:HB2	1.96	0.47
1:k:177:GLU:HB2	1:k:182:LEU:HD11	1.97	0.47
1:P:154:ARG:HG2	1:P:203:LEU:HD12	1.97	0.47
1:l:68:LYS:O	1:l:72:GLU:HG3	2.14	0.47
1:w:161:GLY:HA2	1:w:164:LEU:HD12	1.95	0.47
1:7:38:TYR:CE1	1:7:42:LYS:HD3	2.49	0.47
1:B:161:GLY:HA2	1:B:164:LEU:HD12	1.95	0.47
1:F:68:LYS:O	1:F:72:GLU:HG3	2.14	0.47
1:Q:120:TYR:HB3	1:Q:218:GLU:HB2	1.95	0.47
1:n:38:TYR:CE1	1:n:42:LYS:HD3	2.49	0.47
1:H:68:LYS:O	1:H:72:GLU:HG3	2.14	0.47
1:S:68:LYS:O	1:S:72:GLU:HG3	2.14	0.47
1:d:154:ARG:HG2	1:d:203:LEU:HD12	1.97	0.47
1:z:68:LYS:O	1:z:72:GLU:HG3	2.14	0.47
1:I:38:TYR:CE1	1:I:42:LYS:HD3	2.49	0.47
1:I:154:ARG:HG2	1:I:203:LEU:HD12	1.97	0.47
1:1:177:GLU:HB3	1:1:182:LEU:HD11	1.96	0.47
1:2:154:ARG:HG2	1:2:203:LEU:HD12	1.97	0.47
1:L:161:GLY:HA2	1:L:164:LEU:HD12	1.95	0.47
1:s:161:GLY:HA2	1:s:164:LEU:HD12	1.95	0.47
1:3:32:LEU:HD12	1:3:32:LEU:HA	1.76	0.47
1:3:38:TYR:CE1	1:3:42:LYS:HD3	2.49	0.47
1:3:154:ARG:HG2	1:3:203:LEU:HD12	1.97	0.47
1:3:177:GLU:HB3	1:3:182:LEU:HD11	1.96	0.47
1:u:139:ALA:HA	1:u:142:LYS:HB2	1.96	0.47
1:Z:17:HIS:O	1:Z:18:GLU:C	2.53	0.47
1:Z:38:TYR:CE1	1:Z:42:LYS:HD3	2.49	0.47
1:Z:77:GLU:OE1	1:Z:77:GLU:N	2.42	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:154:ARG:HG2	1:B:203:LEU:HD12	1.97	0.47
1:E:139:ALA:HA	1:E:142:LYS:HB2	1.96	0.47
1:E:200:ASP:OD2	1:E:200:ASP:N	2.47	0.47
1:m:44:LEU:HD22	1:K:14:LYS:HB2	1.96	0.47
1:y:177:GLU:CB	1:y:182:LEU:HD11	2.44	0.47
1:p:161:GLY:HA2	1:p:164:LEU:HD12	1.95	0.47
1:p:178:PRO:O	1:p:179:LEU:C	2.55	0.47
1:J:77:GLU:OE1	1:J:77:GLU:N	2.42	0.47
1:U:161:GLY:HA2	1:U:164:LEU:HD12	1.95	0.47
1:f:32:LEU:HD12	1:f:32:LEU:HA	1.76	0.47
1:q:32:LEU:HD12	1:q:32:LEU:HA	1.76	0.47
1:2:177:GLU:HB2	1:2:182:LEU:HD11	1.96	0.47
1:L:200:ASP:OD2	1:L:200:ASP:N	2.46	0.47
1:M:177:GLU:HB3	1:M:182:LEU:HD11	1.96	0.47
1:M:227:ARG:O	1:M:231:GLU:HG2	2.14	0.47
1:4:171:ARG:NH1	1:4:177:GLU:OE2	2.47	0.47
1:j:161:GLY:HA2	1:j:164:LEU:HD12	1.95	0.47
1:u:44:LEU:HD22	1:P:14:LYS:HB2	1.96	0.47
1:O:161:GLY:HA2	1:O:164:LEU:HD12	1.95	0.47
1:v:178:PRO:O	1:v:182:LEU:HD12	2.14	0.47
1:6:68:LYS:O	1:6:72:GLU:HG3	2.14	0.47
1:P:68:LYS:O	1:P:72:GLU:HG3	2.14	0.47
1:A:14:LYS:HB2	1:G:44:LEU:HD22	1.95	0.47
1:C:154:ARG:HG2	1:C:203:LEU:HD12	1.97	0.47
1:E:183:LEU:HD22	1:E:212:VAL:HG22	1.97	0.47
1:Q:52:GLU:OE2	1:Q:56:ARG:NE	2.44	0.47
1:m:227:ARG:O	1:m:231:GLU:HG2	2.14	0.47
1:G:68:LYS:O	1:G:72:GLU:HG3	2.14	0.47
1:G:171:ARG:NH1	1:G:177:GLU:OE2	2.48	0.47
1:c:52:GLU:OE2	1:c:56:ARG:NE	2.44	0.47
1:c:161:GLY:HA2	1:c:164:LEU:HD12	1.95	0.47
1:c:177:GLU:CB	1:c:182:LEU:HD11	2.44	0.47
1:n:77:GLU:OE1	1:n:77:GLU:N	2.42	0.47
1:n:177:GLU:HB3	1:n:182:LEU:HD11	1.96	0.47
1:n:178:PRO:O	1:n:179:LEU:C	2.57	0.47
1:d:68:LYS:O	1:d:72:GLU:HG3	2.14	0.47
1:o:38:TYR:CE1	1:o:42:LYS:HD3	2.49	0.47
1:z:52:GLU:OE2	1:z:56:ARG:NE	2.44	0.47
1:T:44:LEU:HD22	1:q:14:LYS:HB2	1.97	0.47
1:T:139:ALA:HA	1:T:142:LYS:HB2	1.96	0.47
1:0:68:LYS:O	1:0:72:GLU:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:154:ARG:HG2	1:J:203:LEU:HD12	1.97	0.47
1:J:227:ARG:O	1:J:231:GLU:HG2	2.13	0.47
1:q:38:TYR:CE1	1:q:42:LYS:HD3	2.49	0.47
1:K:154:ARG:HG2	1:K:203:LEU:HD12	1.97	0.47
1:g:139:ALA:HA	1:g:142:LYS:HB2	1.96	0.47
1:g:154:ARG:HG2	1:g:203:LEU:HD12	1.97	0.47
1:g:183:LEU:HD22	1:g:212:VAL:HG22	1.97	0.47
1:r:200:ASP:OD2	1:r:200:ASP:N	2.48	0.47
1:L:38:TYR:CE1	1:L:42:LYS:HD3	2.49	0.47
1:L:139:ALA:HA	1:L:142:LYS:HB2	1.96	0.47
1:W:177:GLU:HB3	1:W:182:LEU:HD11	1.96	0.47
1:h:177:GLU:HB2	1:h:182:LEU:HD11	1.96	0.47
1:s:68:LYS:O	1:s:72:GLU:HG3	2.14	0.47
1:s:178:PRO:O	1:s:182:LEU:HD12	2.14	0.47
1:M:154:ARG:HG2	1:M:203:LEU:HD12	1.97	0.47
1:M:161:GLY:HA2	1:M:164:LEU:HD12	1.95	0.47
1:M:178:PRO:O	1:M:179:LEU:C	2.55	0.47
1:X:14:LYS:HB2	1:5:44:LEU:HD22	1.96	0.47
1:X:38:TYR:CE1	1:X:42:LYS:HD3	2.49	0.47
1:X:68:LYS:O	1:X:72:GLU:HG3	2.14	0.47
1:X:139:ALA:HA	1:X:142:LYS:HB2	1.96	0.47
1:X:154:ARG:HG2	1:X:203:LEU:HD12	1.97	0.47
1:4:161:GLY:HA2	1:4:164:LEU:HD12	1.95	0.47
1:Y:161:GLY:HA2	1:Y:164:LEU:HD12	1.95	0.47
1:Y:171:ARG:NH1	1:Y:177:GLU:OE2	2.48	0.47
1:u:38:TYR:CE1	1:u:42:LYS:HD3	2.49	0.47
1:u:68:LYS:O	1:u:72:GLU:HG3	2.14	0.47
1:u:154:ARG:HG2	1:u:203:LEU:HD12	1.97	0.47
1:k:52:GLU:OE2	1:k:56:ARG:NE	2.44	0.47
1:k:177:GLU:CB	1:k:182:LEU:HD11	2.44	0.47
1:v:171:ARG:NH1	1:v:177:GLU:OE2	2.48	0.47
1:6:177:GLU:HB3	1:6:182:LEU:HD11	1.95	0.47
1:a:38:TYR:CE1	1:a:42:LYS:HD3	2.49	0.47
1:w:68:LYS:O	1:w:72:GLU:HG3	2.14	0.47
1:7:68:LYS:O	1:7:72:GLU:HG3	2.14	0.47
1:E:154:ARG:HG2	1:E:203:LEU:HD12	1.97	0.47
1:x:178:PRO:O	1:x:179:LEU:C	2.57	0.47
1:R:77:GLU:OE1	1:R:77:GLU:N	2.42	0.47
1:y:52:GLU:OE2	1:y:56:ARG:NE	2.44	0.47
1:H:52:GLU:OE2	1:H:56:ARG:NE	2.44	0.47
1:H:183:LEU:HD22	1:H:212:VAL:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:77:GLU:OE1	1:d:77:GLU:N	2.42	0.47
1:T:38:TYR:CE1	1:T:42:LYS:HD3	2.49	0.47
1:0:171:ARG:NH1	1:0:177:GLU:OE2	2.48	0.47
1:U:154:ARG:HG2	1:U:203:LEU:HD12	1.97	0.47
1:U:178:PRO:O	1:U:179:LEU:C	2.57	0.47
1:f:68:LYS:O	1:f:72:GLU:HG3	2.14	0.47
1:s:171:ARG:NH1	1:s:177:GLU:OE2	2.48	0.47
1:4:32:LEU:HD12	1:4:32:LEU:HA	1.76	0.47
1:4:139:ALA:HA	1:4:142:LYS:HB2	1.96	0.47
1:j:227:ARG:O	1:j:231:GLU:HG2	2.14	0.47
1:v:68:LYS:O	1:v:72:GLU:HG3	2.14	0.47
1:w:183:LEU:HD22	1:w:212:VAL:HG22	1.97	0.47
1:7:183:LEU:HD22	1:7:212:VAL:HG22	1.97	0.47
1:A:177:GLU:HB3	1:A:182:LEU:HD11	1.97	0.47
1:D:202:ARG:O	1:D:205:ALA:N	2.46	0.47
1:E:44:LEU:HD22	1:0:14:LYS:HB2	1.96	0.47
1:E:177:GLU:CB	1:E:182:LEU:HD11	2.45	0.47
1:x:154:ARG:HG2	1:x:203:LEU:HD12	1.97	0.47
1:R:139:ALA:HA	1:R:142:LYS:HB2	1.96	0.47
1:R:154:ARG:HG2	1:R:203:LEU:HD12	1.97	0.47
1:I:177:GLU:HB3	1:I:182:LEU:HD11	1.96	0.47
1:e:52:GLU:OE2	1:e:56:ARG:NE	2.44	0.47
1:0:38:TYR:CE1	1:0:42:LYS:HD3	2.49	0.47
1:f:14:LYS:HB2	1:k:44:LEU:HD22	1.97	0.47
1:f:38:TYR:CE1	1:f:42:LYS:HD3	2.49	0.47
1:q:52:GLU:OE2	1:q:56:ARG:NE	2.44	0.47
1:s:38:TYR:CE1	1:s:42:LYS:HD3	2.49	0.47
1:j:154:ARG:HG2	1:j:203:LEU:HD12	1.97	0.47
1:5:52:GLU:OE2	1:5:56:ARG:NE	2.44	0.47
1:v:77:GLU:OE1	1:v:77:GLU:N	2.42	0.47
1:6:139:ALA:HA	1:6:142:LYS:HB2	1.96	0.47
1:P:139:ALA:HA	1:P:142:LYS:HB2	1.96	0.47
1:a:156:LYS:HA	1:a:159:LYS:HZ3	1.80	0.47
1:l:52:GLU:OE2	1:l:56:ARG:NE	2.44	0.47
1:l:177:GLU:CB	1:l:182:LEU:HD11	2.44	0.47
1:l:200:ASP:OD2	1:l:200:ASP:N	2.48	0.47
1:w:177:GLU:HB3	1:w:182:LEU:HD11	1.95	0.47
1:7:171:ARG:NH1	1:7:177:GLU:OE2	2.48	0.47
1:B:177:GLU:HB3	1:B:178:PRO:CD	2.42	0.47
1:C:14:LYS:HB2	1:J:44:LEU:HD22	1.96	0.47
1:D:177:GLU:HB3	1:D:182:LEU:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:38:TYR:CE1	1:F:42:LYS:HD3	2.49	0.47
1:m:14:LYS:HB2	1:U:44:LEU:HD22	1.97	0.47
1:m:154:ARG:HG2	1:m:203:LEU:HD12	1.97	0.47
1:H:154:ARG:HG2	1:H:203:LEU:HD12	1.97	0.47
1:S:183:LEU:HD22	1:S:212:VAL:HG22	1.97	0.47
1:d:139:ALA:HA	1:d:142:LYS:HB2	1.96	0.47
1:e:200:ASP:OD2	1:e:200:ASP:N	2.48	0.47
1:p:139:ALA:HA	1:p:142:LYS:HB2	1.96	0.47
1:f:177:GLU:HB2	1:f:182:LEU:HD11	1.96	0.47
1:V:183:LEU:HD22	1:V:212:VAL:HG22	1.97	0.47
1:2:171:ARG:NH1	1:2:177:GLU:OE2	2.48	0.47
1:h:139:ALA:HA	1:h:142:LYS:HB2	1.96	0.47
1:3:92:VAL:HG12	1:3:101:LYS:HZ2	1.79	0.47
1:Y:139:ALA:HA	1:Y:142:LYS:HB2	1.96	0.47
1:k:183:LEU:HD22	1:k:212:VAL:HG22	1.97	0.47
1:6:38:TYR:CE1	1:6:42:LYS:HD3	2.49	0.47
1:6:77:GLU:OE1	1:6:77:GLU:N	2.42	0.47
1:6:154:ARG:HG2	1:6:203:LEU:HD12	1.97	0.47
1:l:154:ARG:HG2	1:l:203:LEU:HD12	1.97	0.47
1:w:52:GLU:OE2	1:w:56:ARG:NE	2.44	0.47
1:D:154:ARG:HG2	1:D:203:LEU:HD12	1.97	0.46
1:D:183:LEU:HD22	1:D:212:VAL:HG22	1.97	0.46
1:F:154:ARG:HG2	1:F:203:LEU:HD12	1.97	0.46
1:y:171:ARG:NH1	1:y:177:GLU:OE2	2.48	0.46
1:S:171:ARG:NH1	1:S:177:GLU:OE2	2.49	0.46
1:S:177:GLU:HB2	1:S:182:LEU:HD11	1.96	0.46
1:z:154:ARG:HG2	1:z:203:LEU:HD12	1.97	0.46
1:0:183:LEU:HD22	1:0:212:VAL:HG22	1.97	0.46
1:f:154:ARG:HG2	1:f:203:LEU:HD12	1.97	0.46
1:2:44:LEU:HD22	1:k:14:LYS:HB2	1.97	0.46
1:L:154:ARG:HG2	1:L:203:LEU:HD12	1.97	0.46
1:t:171:ARG:NH1	1:t:177:GLU:OE2	2.48	0.46
1:4:77:GLU:OE1	1:4:77:GLU:N	2.42	0.46
1:j:177:GLU:HB3	1:j:182:LEU:HD11	1.96	0.46
1:5:227:ARG:O	1:5:231:GLU:HG2	2.14	0.46
1:O:154:ARG:HG2	1:O:203:LEU:HD12	1.97	0.46
1:k:139:ALA:HA	1:k:142:LYS:HB2	1.96	0.46
1:P:57:LEU:HD12	1:P:57:LEU:HA	1.82	0.46
1:P:77:GLU:OE1	1:P:77:GLU:N	2.42	0.46
1:a:183:LEU:HD22	1:a:212:VAL:HG22	1.97	0.46
1:a:200:ASP:OD2	1:a:200:ASP:N	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:154:ARG:HG2	1:w:203:LEU:HD12	1.97	0.46
1:A:38:TYR:CE1	1:A:42:LYS:HD3	2.49	0.46
1:B:183:LEU:HD22	1:B:212:VAL:HG22	1.97	0.46
1:D:139:ALA:HA	1:D:142:LYS:HB2	1.96	0.46
1:F:177:GLU:HB2	1:F:182:LEU:HD11	1.97	0.46
1:G:77:GLU:OE1	1:G:77:GLU:N	2.42	0.46
1:R:38:TYR:CE1	1:R:42:LYS:HD3	2.49	0.46
1:R:183:LEU:HD22	1:R:212:VAL:HG22	1.97	0.46
1:c:154:ARG:HG2	1:c:203:LEU:HD12	1.97	0.46
1:y:139:ALA:HA	1:y:142:LYS:HB2	1.96	0.46
1:y:183:LEU:HD22	1:y:212:VAL:HG22	1.97	0.46
1:z:38:TYR:CE1	1:z:42:LYS:HD3	2.49	0.46
1:T:156:LYS:HA	1:T:159:LYS:HZ3	1.79	0.46
1:r:32:LEU:HD12	1:r:32:LEU:HA	1.76	0.46
1:2:177:GLU:HB3	1:2:178:PRO:CD	2.42	0.46
1:2:183:LEU:HD22	1:2:212:VAL:HG22	1.97	0.46
1:h:14:LYS:HB2	1:7:44:LEU:HD22	1.97	0.46
1:M:183:LEU:HD22	1:M:212:VAL:HG22	1.97	0.46
1:i:52:GLU:OE2	1:i:56:ARG:NE	2.44	0.46
1:i:227:ARG:O	1:i:231:GLU:HG2	2.14	0.46
1:t:154:ARG:HG2	1:t:203:LEU:HD12	1.97	0.46
1:N:154:ARG:HG2	1:N:203:LEU:HD12	1.97	0.46
1:N:171:ARG:NH1	1:N:177:GLU:OE2	2.49	0.46
1:j:178:PRO:O	1:j:179:LEU:C	2.56	0.46
1:5:154:ARG:HG2	1:5:203:LEU:HD12	1.97	0.46
1:O:177:GLU:CB	1:O:182:LEU:HD11	2.44	0.46
1:6:183:LEU:HD22	1:6:212:VAL:HG22	1.97	0.46
1:a:177:GLU:HB3	1:a:182:LEU:HD11	1.96	0.46
1:7:177:GLU:HB2	1:7:182:LEU:HD11	1.96	0.46
1:7:200:ASP:OD2	1:7:200:ASP:N	2.48	0.46
1:A:178:PRO:O	1:A:179:LEU:C	2.57	0.46
1:B:171:ARG:NH1	1:B:177:GLU:OE2	2.49	0.46
1:F:14:LYS:HB2	1:y:44:LEU:HD22	1.97	0.46
1:F:177:GLU:HB3	1:F:178:PRO:CD	2.42	0.46
1:b:52:GLU:OE2	1:b:56:ARG:NE	2.44	0.46
1:b:200:ASP:OD2	1:b:200:ASP:N	2.44	0.46
1:x:38:TYR:CE1	1:x:42:LYS:HD3	2.49	0.46
1:c:139:ALA:HA	1:c:142:LYS:HB2	1.96	0.46
1:o:183:LEU:HD22	1:o:212:VAL:HG22	1.97	0.46
1:I:178:PRO:O	1:I:179:LEU:C	2.55	0.46
1:T:178:PRO:O	1:T:179:LEU:C	2.55	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:183:LEU:HD22	1:T:212:VAL:HG22	1.97	0.46
1:e:14:LYS:HB2	1:Y:44:LEU:HD22	1.95	0.46
1:U:38:TYR:CE1	1:U:42:LYS:HD3	2.49	0.46
1:U:156:LYS:HA	1:U:159:LYS:HZ3	1.80	0.46
1:L:183:LEU:HD22	1:L:212:VAL:HG22	1.97	0.46
1:W:52:GLU:OE2	1:W:56:ARG:NE	2.44	0.46
1:h:171:ARG:NH1	1:h:177:GLU:OE2	2.49	0.46
1:h:202:ARG:NE	1:h:202:ARG:HA	2.31	0.46
1:X:177:GLU:CB	1:X:182:LEU:HD11	2.45	0.46
1:i:154:ARG:HG2	1:i:203:LEU:HD12	1.97	0.46
1:i:183:LEU:HD22	1:i:212:VAL:HG22	1.97	0.46
1:Y:32:LEU:HD12	1:Y:32:LEU:HA	1.76	0.46
1:Y:77:GLU:OE1	1:Y:77:GLU:N	2.42	0.46
1:j:183:LEU:HD22	1:j:212:VAL:HG22	1.97	0.46
1:O:139:ALA:HA	1:O:142:LYS:HB2	1.96	0.46
1:k:171:ARG:NH1	1:k:177:GLU:OE2	2.48	0.46
1:l:38:TYR:CE1	1:l:42:LYS:HD3	2.49	0.46
1:w:139:ALA:HA	1:w:142:LYS:HB2	1.96	0.46
1:C:156:LYS:HA	1:C:159:LYS:HZ3	1.81	0.46
1:Q:154:ARG:HG2	1:Q:203:LEU:HD12	1.97	0.46
1:m:177:GLU:HB3	1:m:178:PRO:CD	2.46	0.46
1:x:183:LEU:HD22	1:x:212:VAL:HG22	1.97	0.46
1:G:139:ALA:HA	1:G:142:LYS:HB2	1.96	0.46
1:H:139:ALA:HA	1:H:142:LYS:HB2	1.96	0.46
1:H:177:GLU:HB3	1:H:182:LEU:HD11	1.96	0.46
1:I:14:LYS:HB2	1:1:44:LEU:HD22	1.97	0.46
1:T:154:ARG:HG2	1:T:203:LEU:HD12	1.97	0.46
1:e:38:TYR:CE1	1:e:42:LYS:HD3	2.49	0.46
1:e:154:ARG:HG2	1:e:203:LEU:HD12	1.97	0.46
1:e:183:LEU:HD22	1:e:212:VAL:HG22	1.97	0.46
1:U:183:LEU:HD22	1:U:212:VAL:HG22	1.97	0.46
1:f:183:LEU:HD22	1:f:212:VAL:HG22	1.97	0.46
1:1:183:LEU:HD22	1:1:212:VAL:HG22	1.97	0.46
1:K:93:GLU:HA	1:K:101:LYS:HZ1	1.80	0.46
1:K:156:LYS:HA	1:K:159:LYS:HZ3	1.81	0.46
1:V:139:ALA:HA	1:V:142:LYS:HB2	1.96	0.46
1:V:154:ARG:HG2	1:V:203:LEU:HD12	1.97	0.46
1:r:38:TYR:CE1	1:r:42:LYS:HD3	2.49	0.46
1:r:178:PRO:O	1:r:179:LEU:C	2.57	0.46
1:W:32:LEU:HD12	1:W:32:LEU:HA	1.76	0.46
1:W:38:TYR:CE1	1:W:42:LYS:HD3	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:183:LEU:HD22	1:s:212:VAL:HG22	1.97	0.46
1:5:183:LEU:HD22	1:5:212:VAL:HG22	1.97	0.46
1:v:139:ALA:HA	1:v:142:LYS:HB2	1.96	0.46
1:A:200:ASP:OD2	1:A:200:ASP:N	2.49	0.46
1:F:183:LEU:HD22	1:F:212:VAL:HG22	1.97	0.46
1:b:183:LEU:HD22	1:b:212:VAL:HG22	1.97	0.46
1:G:17:HIS:CE1	1:z:45:ILE:HG21	2.49	0.46
1:S:154:ARG:HG2	1:S:203:LEU:HD12	1.97	0.46
1:o:177:GLU:HB3	1:o:182:LEU:HD11	1.96	0.46
1:I:139:ALA:HA	1:I:142:LYS:HB2	1.96	0.46
1:p:171:ARG:NH1	1:p:177:GLU:OE2	2.49	0.46
1:J:139:ALA:HA	1:J:142:LYS:HB2	1.96	0.46
1:J:183:LEU:HD22	1:J:212:VAL:HG22	1.97	0.46
1:1:52:GLU:OE2	1:1:56:ARG:NE	2.44	0.46
1:L:177:GLU:CB	1:L:182:LEU:HD11	2.44	0.46
1:W:154:ARG:HG2	1:W:203:LEU:HD12	1.97	0.46
1:W:183:LEU:HD22	1:W:212:VAL:HG22	1.97	0.46
1:s:202:ARG:O	1:s:205:ALA:HB3	2.16	0.46
1:3:139:ALA:HA	1:3:142:LYS:HB2	1.96	0.46
1:4:40:VAL:O	1:4:41:GLU:HB3	2.16	0.46
1:5:178:PRO:O	1:5:179:LEU:C	2.57	0.46
1:m:139:ALA:HA	1:m:142:LYS:HB2	1.96	0.46
1:m:183:LEU:HD22	1:m:212:VAL:HG22	1.97	0.46
1:d:57:LEU:HD12	1:d:57:LEU:HA	1.82	0.46
1:f:156:LYS:HA	1:f:159:LYS:HZ3	1.81	0.46
1:f:171:ARG:NH1	1:f:177:GLU:OE2	2.48	0.46
1:q:154:ARG:HG2	1:q:203:LEU:HD12	1.97	0.46
1:s:154:ARG:HG2	1:s:203:LEU:HD12	1.97	0.46
1:M:202:ARG:O	1:M:205:ALA:HB3	2.16	0.46
1:i:77:GLU:OE1	1:i:77:GLU:N	2.42	0.46
1:N:183:LEU:HD22	1:N:212:VAL:HG22	1.97	0.46
1:Y:40:VAL:O	1:Y:41:GLU:HB3	2.16	0.46
1:v:17:HIS:CE1	1:l:45:ILE:HG21	2.50	0.46
1:l:177:GLU:HB3	1:l:178:PRO:CD	2.46	0.46
1:A:40:VAL:O	1:A:41:GLU:HB3	2.16	0.46
1:E:40:VAL:O	1:E:41:GLU:HB3	2.16	0.46
1:F:40:VAL:O	1:F:41:GLU:HB3	2.16	0.46
1:x:44:LEU:HD22	1:J:14:LYS:HB2	1.97	0.46
1:o:156:LYS:HA	1:o:159:LYS:HZ3	1.81	0.46
1:z:177:GLU:HB3	1:z:178:PRO:CD	2.46	0.46
1:z:177:GLU:CB	1:z:182:LEU:HD11	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:177:GLU:HB3	1:f:178:PRO:CD	2.42	0.46
1:K:183:LEU:HD22	1:K:212:VAL:HG22	1.97	0.46
1:r:154:ARG:HG2	1:r:203:LEU:HD12	1.97	0.46
1:2:200:ASP:OD2	1:2:200:ASP:N	2.48	0.46
1:W:40:VAL:O	1:W:41:GLU:HB3	2.16	0.46
1:X:183:LEU:HD22	1:X:212:VAL:HG22	1.97	0.46
1:u:183:LEU:HD22	1:u:212:VAL:HG22	1.97	0.46
1:k:154:ARG:HG2	1:k:203:LEU:HD12	1.97	0.46
1:7:154:ARG:HG2	1:7:203:LEU:HD12	1.97	0.46
1:A:183:LEU:HD22	1:A:212:VAL:HG22	1.97	0.46
1:C:183:LEU:HD22	1:C:212:VAL:HG22	1.97	0.46
1:Q:183:LEU:HD22	1:Q:212:VAL:HG22	1.97	0.46
1:R:177:GLU:HB3	1:R:182:LEU:HD11	1.97	0.46
1:z:8:LYS:H	1:z:8:LYS:HG2	1.61	0.46
1:I:40:VAL:O	1:I:41:GLU:HB3	2.16	0.46
1:I:57:LEU:HA	1:I:57:LEU:HD12	1.82	0.46
1:e:40:VAL:O	1:e:41:GLU:HB3	2.16	0.46
1:0:154:ARG:HG2	1:0:203:LEU:HD12	1.97	0.46
1:J:177:GLU:HB3	1:J:178:PRO:CD	2.46	0.46
1:U:40:VAL:O	1:U:41:GLU:HB3	2.16	0.46
1:q:171:ARG:NH1	1:q:177:GLU:OE2	2.48	0.46
1:V:156:LYS:HA	1:V:159:LYS:HZ3	1.80	0.46
1:r:40:VAL:O	1:r:41:GLU:HB3	2.16	0.46
1:L:178:PRO:O	1:L:179:LEU:C	2.56	0.46
1:W:178:PRO:O	1:W:179:LEU:C	2.57	0.46
1:h:154:ARG:HG2	1:h:203:LEU:HD12	1.97	0.46
1:3:40:VAL:O	1:3:41:GLU:HB3	2.16	0.46
1:t:183:LEU:HD22	1:t:212:VAL:HG22	1.97	0.46
1:Y:154:ARG:HG2	1:Y:203:LEU:HD12	1.97	0.46
1:5:77:GLU:OE1	1:5:77:GLU:N	2.42	0.46
1:P:183:LEU:HD22	1:P:212:VAL:HG22	1.97	0.46
1:A:154:ARG:HG2	1:A:203:LEU:HD12	1.97	0.46
1:b:154:ARG:HG2	1:b:203:LEU:HD12	1.97	0.46
1:x:40:VAL:O	1:x:41:GLU:HB3	2.16	0.46
1:G:154:ARG:HG2	1:G:203:LEU:HD12	1.97	0.46
1:y:154:ARG:HG2	1:y:203:LEU:HD12	1.97	0.46
1:H:14:LYS:HB2	1:0:44:LEU:HD22	1.98	0.46
1:e:178:PRO:O	1:e:179:LEU:C	2.57	0.46
1:p:40:VAL:O	1:p:41:GLU:HB3	2.16	0.46
1:p:154:ARG:HG2	1:p:203:LEU:HD12	1.97	0.46
1:g:40:VAL:O	1:g:41:GLU:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:93:GLU:HA	1:O:101:LYS:HZ1	1.80	0.46
1:F:171:ARG:NH1	1:F:177:GLU:OE2	2.49	0.46
1:d:183:LEU:HD22	1:d:212:VAL:HG22	1.97	0.46
1:p:44:LEU:HD22	1:N:14:LYS:HB2	1.96	0.46
1:p:202:ARG:O	1:p:205:ALA:HB3	2.16	0.46
1:f:40:VAL:O	1:f:41:GLU:HB3	2.16	0.46
1:q:183:LEU:HD22	1:q:212:VAL:HG22	1.97	0.46
1:L:156:LYS:HA	1:L:159:LYS:HZ3	1.80	0.46
1:h:40:VAL:O	1:h:41:GLU:HB3	2.16	0.46
1:h:52:GLU:OE2	1:h:56:ARG:NE	2.44	0.46
1:i:178:PRO:O	1:i:179:LEU:C	2.57	0.46
1:4:183:LEU:HD22	1:4:212:VAL:HG22	1.97	0.46
1:Y:183:LEU:HD22	1:Y:212:VAL:HG22	1.97	0.46
1:5:40:VAL:O	1:5:41:GLU:HB3	2.16	0.46
1:v:154:ARG:HG2	1:v:203:LEU:HD12	1.97	0.46
1:a:40:VAL:O	1:a:41:GLU:HB3	2.16	0.46
1:a:154:ARG:HG2	1:a:203:LEU:HD12	1.97	0.46
1:l:183:LEU:HD22	1:l:212:VAL:HG22	1.97	0.46
1:B:57:LEU:HD12	1:B:57:LEU:HA	1.82	0.45
1:F:139:ALA:HA	1:F:142:LYS:HB2	1.96	0.45
1:Q:171:ARG:NH1	1:Q:177:GLU:OE2	2.48	0.45
1:m:202:ARG:O	1:m:205:ALA:HB3	2.17	0.45
1:G:183:LEU:HD22	1:G:212:VAL:HG22	1.97	0.45
1:n:82:LEU:HD12	1:n:115:PHE:CE2	2.52	0.45
1:y:93:GLU:HA	1:y:101:LYS:HZ1	1.82	0.45
1:o:40:VAL:O	1:o:41:GLU:HB3	2.16	0.45
1:o:82:LEU:HD12	1:o:115:PHE:CE2	2.52	0.45
1:o:154:ARG:HG2	1:o:203:LEU:HD12	1.97	0.45
1:z:183:LEU:HD22	1:z:212:VAL:HG22	1.97	0.45
1:p:52:GLU:OE2	1:p:56:ARG:NE	2.44	0.45
1:p:183:LEU:HD22	1:p:212:VAL:HG22	1.97	0.45
1:r:82:LEU:HD12	1:r:115:PHE:CE2	2.52	0.45
1:r:183:LEU:HD22	1:r:212:VAL:HG22	1.98	0.45
1:2:57:LEU:HD12	1:2:57:LEU:HA	1.82	0.45
1:2:82:LEU:HD12	1:2:115:PHE:CE2	2.52	0.45
1:s:40:VAL:O	1:s:41:GLU:HB3	2.16	0.45
1:4:154:ARG:HG2	1:4:203:LEU:HD12	1.97	0.45
1:6:202:ARG:O	1:6:205:ALA:HB3	2.16	0.45
1:A:82:LEU:HD12	1:A:115:PHE:CE2	2.52	0.45
1:B:65:GLU:O	1:B:69:LYS:HG2	2.17	0.45
1:B:82:LEU:HD12	1:B:115:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:82:LEU:HD12	1:D:115:PHE:CE2	2.52	0.45
1:E:82:LEU:HD12	1:E:115:PHE:CE2	2.52	0.45
1:c:32:LEU:HA	1:c:32:LEU:HD12	1.76	0.45
1:n:226:PHE:CE1	1:y:231:GLU:HG3	2.52	0.45
1:I:65:GLU:O	1:I:69:LYS:HG2	2.17	0.45
1:e:57:LEU:HD12	1:e:57:LEU:HA	1.82	0.45
1:0:178:PRO:HG2	1:0:181:ASP:HB3	1.98	0.45
1:J:202:ARG:O	1:J:205:ALA:HB3	2.17	0.45
1:1:82:LEU:HD12	1:1:115:PHE:CE2	2.52	0.45
1:1:154:ARG:HG2	1:1:203:LEU:HD12	1.97	0.45
1:K:40:VAL:O	1:K:41:GLU:HB3	2.16	0.45
1:g:202:ARG:O	1:g:205:ALA:HB3	2.17	0.45
1:W:200:ASP:OD2	1:W:200:ASP:N	2.49	0.45
1:h:183:LEU:HD22	1:h:212:VAL:HG22	1.97	0.45
1:h:202:ARG:O	1:h:205:ALA:HB3	2.17	0.45
1:3:65:GLU:O	1:3:69:LYS:HG2	2.17	0.45
1:i:40:VAL:O	1:i:41:GLU:HB3	2.16	0.45
1:j:40:VAL:O	1:j:41:GLU:HB3	2.16	0.45
1:j:202:ARG:O	1:j:205:ALA:HB3	2.16	0.45
1:u:177:GLU:HB3	1:u:178:PRO:CD	2.46	0.45
1:Z:82:LEU:HD12	1:Z:115:PHE:CE2	2.52	0.45
1:k:202:ARG:O	1:k:205:ALA:HB3	2.17	0.45
1:v:183:LEU:HD22	1:v:212:VAL:HG22	1.97	0.45
1:P:40:VAL:O	1:P:41:GLU:HB3	2.16	0.45
1:a:82:LEU:HD12	1:a:115:PHE:CE2	2.52	0.45
1:l:40:VAL:O	1:l:41:GLU:HB3	2.16	0.45
1:D:202:ARG:O	1:D:205:ALA:HB3	2.16	0.45
1:F:202:ARG:HA	1:F:202:ARG:NE	2.32	0.45
1:b:82:LEU:HD12	1:b:115:PHE:CE2	2.52	0.45
1:y:82:LEU:HD12	1:y:115:PHE:CE2	2.52	0.45
1:y:202:ARG:O	1:y:205:ALA:HB3	2.17	0.45
1:I:202:ARG:O	1:I:205:ALA:HB3	2.16	0.45
1:T:52:GLU:OE2	1:T:56:ARG:NE	2.44	0.45
1:T:65:GLU:O	1:T:69:LYS:HG2	2.17	0.45
1:e:32:LEU:HD12	1:e:32:LEU:HA	1.76	0.45
1:0:40:VAL:O	1:0:41:GLU:HB3	2.16	0.45
1:f:139:ALA:HA	1:f:142:LYS:HB2	1.96	0.45
1:K:32:LEU:HA	1:K:32:LEU:HD12	1.76	0.45
1:K:171:ARG:NH1	1:K:177:GLU:OE2	2.48	0.45
1:g:82:LEU:HD12	1:g:115:PHE:CE2	2.52	0.45
1:r:226:PHE:CE1	1:2:231:GLU:HG3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:65:GLU:O	1:L:69:LYS:HG2	2.17	0.45
1:h:65:GLU:O	1:h:69:LYS:HG2	2.17	0.45
1:M:40:VAL:O	1:M:41:GLU:HB3	2.16	0.45
1:M:65:GLU:O	1:M:69:LYS:HG2	2.17	0.45
1:X:92:VAL:HG12	1:X:101:LYS:HZ2	1.82	0.45
1:i:65:GLU:O	1:i:69:LYS:HG2	2.17	0.45
1:4:65:GLU:O	1:4:69:LYS:HG2	2.17	0.45
1:Y:65:GLU:O	1:Y:69:LYS:HG2	2.17	0.45
1:j:65:GLU:O	1:j:69:LYS:HG2	2.17	0.45
1:u:77:GLU:OE1	1:u:77:GLU:N	2.42	0.45
1:5:65:GLU:O	1:5:69:LYS:HG2	2.17	0.45
1:a:139:ALA:HA	1:a:142:LYS:HB2	1.96	0.45
1:C:40:VAL:O	1:C:41:GLU:HB3	2.16	0.45
1:E:202:ARG:O	1:E:205:ALA:HB3	2.17	0.45
1:F:202:ARG:O	1:F:205:ALA:HB3	2.17	0.45
1:m:226:PHE:CE1	1:x:231:GLU:HG3	2.52	0.45
1:G:82:LEU:HD12	1:G:115:PHE:CE2	2.52	0.45
1:c:183:LEU:HD22	1:c:212:VAL:HG22	1.97	0.45
1:d:40:VAL:O	1:d:41:GLU:HB3	2.16	0.45
1:o:139:ALA:HA	1:o:142:LYS:HB2	1.96	0.45
1:o:202:ARG:O	1:o:205:ALA:HB3	2.16	0.45
1:o:226:PHE:CE1	1:z:231:GLU:HG3	2.51	0.45
1:z:40:VAL:O	1:z:41:GLU:HB3	2.16	0.45
1:I:183:LEU:HD22	1:I:212:VAL:HG22	1.97	0.45
1:T:177:GLU:CB	1:T:182:LEU:HD11	2.45	0.45
1:e:82:LEU:HD12	1:e:115:PHE:CE2	2.52	0.45
1:p:65:GLU:O	1:p:69:LYS:HG2	2.17	0.45
1:f:202:ARG:O	1:f:205:ALA:HB3	2.17	0.45
1:V:82:LEU:HD12	1:V:115:PHE:CE2	2.52	0.45
1:g:44:LEU:HD22	1:s:14:LYS:HB2	1.97	0.45
1:2:65:GLU:O	1:2:69:LYS:HG2	2.17	0.45
1:W:82:LEU:HD12	1:W:115:PHE:CE2	2.52	0.45
1:3:183:LEU:HD22	1:3:212:VAL:HG22	1.97	0.45
1:3:202:ARG:O	1:3:205:ALA:HB3	2.16	0.45
1:t:40:VAL:O	1:t:41:GLU:HB3	2.16	0.45
1:t:202:ARG:O	1:t:205:ALA:HB3	2.17	0.45
1:5:177:GLU:HB3	1:5:178:PRO:CD	2.46	0.45
1:Z:226:PHE:CE1	1:k:231:GLU:HG3	2.52	0.45
1:v:32:LEU:HA	1:v:32:LEU:HD12	1.76	0.45
1:v:82:LEU:HD12	1:v:115:PHE:CE2	2.52	0.45
1:P:82:LEU:HD12	1:P:115:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:65:GLU:O	1:n:69:LYS:HG2	2.17	0.45
1:y:202:ARG:NE	1:y:202:ARG:HA	2.31	0.45
1:S:65:GLU:O	1:S:69:LYS:HG2	2.17	0.45
1:S:82:LEU:HD12	1:S:115:PHE:CE2	2.52	0.45
1:d:82:LEU:HD12	1:d:115:PHE:CE2	2.52	0.45
1:e:156:LYS:HA	1:e:159:LYS:HZ3	1.81	0.45
1:p:82:LEU:HD12	1:p:115:PHE:CE2	2.52	0.45
1:U:82:LEU:HD12	1:U:115:PHE:CE2	2.52	0.45
1:q:82:LEU:HD12	1:q:115:PHE:CE2	2.52	0.45
1:V:65:GLU:O	1:V:69:LYS:HG2	2.17	0.45
1:u:82:LEU:HD12	1:u:115:PHE:CE2	2.52	0.45
1:Z:65:GLU:O	1:Z:69:LYS:HG2	2.17	0.45
1:a:65:GLU:O	1:a:69:LYS:HG2	2.17	0.45
1:a:202:ARG:O	1:a:205:ALA:HB3	2.16	0.45
1:A:65:GLU:O	1:A:69:LYS:HG2	2.17	0.45
1:D:65:GLU:O	1:D:69:LYS:HG2	2.17	0.45
1:D:156:LYS:HA	1:D:159:LYS:HZ3	1.81	0.45
1:x:82:LEU:HD12	1:x:115:PHE:CE2	2.52	0.45
1:R:202:ARG:O	1:R:205:ALA:HB3	2.16	0.45
1:y:65:GLU:O	1:y:69:LYS:HG2	2.17	0.45
1:H:178:PRO:O	1:H:179:LEU:C	2.57	0.45
1:I:82:LEU:HD12	1:I:115:PHE:CE2	2.52	0.45
1:J:40:VAL:O	1:J:41:GLU:HB3	2.16	0.45
1:V:202:ARG:O	1:V:205:ALA:HB3	2.16	0.45
1:W:57:LEU:HD12	1:W:57:LEU:HA	1.82	0.45
1:h:44:LEU:HD22	1:t:14:LYS:HB2	1.97	0.45
1:h:82:LEU:HD12	1:h:115:PHE:CE2	2.52	0.45
1:3:57:LEU:HA	1:3:57:LEU:HD12	1.83	0.45
1:3:82:LEU:HD12	1:3:115:PHE:CE2	2.52	0.45
1:X:77:GLU:OE1	1:X:77:GLU:N	2.42	0.45
1:X:82:LEU:HD12	1:X:115:PHE:CE2	2.52	0.45
1:N:40:VAL:O	1:N:41:GLU:HB3	2.16	0.45
1:N:65:GLU:O	1:N:69:LYS:HG2	2.17	0.45
1:Y:226:PHE:CE1	1:j:231:GLU:HG3	2.52	0.45
1:5:8:LYS:H	1:5:8:LYS:HG2	1.61	0.45
1:O:32:LEU:HD12	1:O:32:LEU:HA	1.76	0.45
1:O:183:LEU:HD22	1:O:212:VAL:HG22	1.97	0.45
1:Z:177:GLU:HB3	1:Z:178:PRO:CD	2.46	0.45
1:Z:183:LEU:HD22	1:Z:212:VAL:HG22	1.97	0.45
1:k:65:GLU:O	1:k:69:LYS:HG2	2.17	0.45
1:k:82:LEU:HD12	1:k:115:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:226:PHE:CE1	1:6:231:GLU:HG3	2.52	0.45
1:a:226:PHE:CE1	1:l:231:GLU:HG3	2.52	0.45
1:7:65:GLU:O	1:7:69:LYS:HG2	2.17	0.45
1:7:82:LEU:HD12	1:7:115:PHE:CE2	2.52	0.45
1:C:82:LEU:HD12	1:C:115:PHE:CE2	2.52	0.45
1:C:171:ARG:NH1	1:C:177:GLU:OE2	2.48	0.45
1:D:14:LYS:HB2	1:I:44:LEU:HD22	1.97	0.45
1:Q:82:LEU:HD12	1:Q:115:PHE:CE2	2.52	0.45
1:b:40:VAL:O	1:b:41:GLU:HB3	2.16	0.45
1:m:40:VAL:O	1:m:41:GLU:HB3	2.16	0.45
1:x:65:GLU:O	1:x:69:LYS:HG2	2.17	0.45
1:y:200:ASP:OD2	1:y:200:ASP:N	2.48	0.45
1:d:14:LYS:HB2	1:X:44:LEU:HD22	1.98	0.45
1:o:65:GLU:O	1:o:69:LYS:HG2	2.17	0.45
1:J:65:GLU:O	1:J:69:LYS:HG2	2.17	0.45
1:U:65:GLU:O	1:U:69:LYS:HG2	2.17	0.45
1:L:52:GLU:OE2	1:L:56:ARG:NE	2.44	0.45
1:W:92:VAL:HG12	1:W:101:LYS:HZ2	1.82	0.45
1:N:202:ARG:O	1:N:205:ALA:HB3	2.17	0.45
1:N:202:ARG:NE	1:N:202:ARG:HA	2.31	0.45
1:C:32:LEU:HA	1:C:32:LEU:HD12	1.76	0.45
1:C:65:GLU:O	1:C:69:LYS:HG2	2.17	0.45
1:E:65:GLU:O	1:E:69:LYS:HG2	2.17	0.45
1:b:57:LEU:HD12	1:b:57:LEU:HA	1.82	0.45
1:m:65:GLU:O	1:m:69:LYS:HG2	2.17	0.45
1:m:82:LEU:HD12	1:m:115:PHE:CE2	2.52	0.45
1:G:178:PRO:HG2	1:G:181:ASP:HB3	1.99	0.45
1:n:177:GLU:HB3	1:n:178:PRO:CD	2.46	0.45
1:p:200:ASP:OD2	1:p:200:ASP:N	2.46	0.45
1:U:177:GLU:HB3	1:U:178:PRO:CD	2.46	0.45
1:1:57:LEU:HD12	1:1:57:LEU:HA	1.82	0.45
1:1:177:GLU:HB3	1:1:178:PRO:CD	2.47	0.45
1:K:65:GLU:O	1:K:69:LYS:HG2	2.17	0.45
1:K:82:LEU:HD12	1:K:115:PHE:CE2	2.52	0.45
1:K:178:PRO:HG2	1:K:181:ASP:HB3	1.99	0.45
1:V:40:VAL:O	1:V:41:GLU:HB3	2.16	0.45
1:r:65:GLU:O	1:r:69:LYS:HG2	2.17	0.45
1:2:202:ARG:O	1:2:205:ALA:HB3	2.17	0.45
1:3:177:GLU:HB3	1:3:178:PRO:CD	2.46	0.45
1:X:177:GLU:HB3	1:X:178:PRO:CD	2.47	0.45
1:t:65:GLU:O	1:t:69:LYS:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:82:LEU:HD12	1:t:115:PHE:CE2	2.52	0.45
1:N:82:LEU:HD12	1:N:115:PHE:CE2	2.52	0.45
1:5:200:ASP:OD2	1:5:200:ASP:N	2.49	0.45
1:O:202:ARG:O	1:O:205:ALA:HB3	2.16	0.45
1:k:40:VAL:O	1:k:41:GLU:HB3	2.16	0.45
1:w:178:PRO:O	1:w:179:LEU:C	2.57	0.45
1:B:202:ARG:O	1:B:205:ALA:HB3	2.17	0.45
1:E:77:GLU:OE1	1:E:77:GLU:N	2.42	0.45
1:G:65:GLU:O	1:G:69:LYS:HG2	2.17	0.45
1:c:65:GLU:O	1:c:69:LYS:HG2	2.17	0.45
1:c:200:ASP:OD2	1:c:200:ASP:N	2.47	0.45
1:c:202:ARG:O	1:c:205:ALA:HB3	2.17	0.45
1:n:183:LEU:HD22	1:n:212:VAL:HG22	1.98	0.45
1:S:40:VAL:O	1:S:41:GLU:HB3	2.16	0.45
1:z:82:LEU:HD12	1:z:115:PHE:CE2	2.52	0.45
1:f:82:LEU:HD12	1:f:115:PHE:CE2	2.52	0.45
1:q:40:VAL:O	1:q:41:GLU:HB3	2.16	0.45
1:1:40:VAL:O	1:1:41:GLU:HB3	2.16	0.45
1:g:65:GLU:O	1:g:69:LYS:HG2	2.17	0.45
1:g:156:LYS:HA	1:g:159:LYS:HZ3	1.82	0.45
1:g:178:PRO:HG2	1:g:181:ASP:HB3	1.99	0.45
1:L:82:LEU:HD12	1:L:115:PHE:CE2	2.52	0.45
1:X:226:PHE:CE1	1:i:231:GLU:HG3	2.52	0.45
1:t:226:PHE:CE1	1:4:231:GLU:HG3	2.52	0.45
1:j:82:LEU:HD12	1:j:115:PHE:CE2	2.52	0.45
1:u:226:PHE:CE1	1:5:231:GLU:HG3	2.52	0.45
1:w:40:VAL:O	1:w:41:GLU:HB3	2.16	0.45
1:D:40:VAL:O	1:D:41:GLU:HB3	2.16	0.45
1:F:82:LEU:HD12	1:F:115:PHE:CE2	2.52	0.45
1:Q:40:VAL:O	1:Q:41:GLU:HB3	2.16	0.45
1:b:177:GLU:HB3	1:b:178:PRO:CD	2.47	0.45
1:b:202:ARG:O	1:b:205:ALA:HB3	2.16	0.45
1:x:177:GLU:HB3	1:x:178:PRO:CD	2.46	0.45
1:x:200:ASP:OD2	1:x:200:ASP:N	2.49	0.45
1:G:40:VAL:O	1:G:41:GLU:HB3	2.16	0.45
1:R:40:VAL:O	1:R:41:GLU:HB3	2.16	0.45
1:R:226:PHE:CE1	1:c:231:GLU:HG3	2.52	0.45
1:H:40:VAL:O	1:H:41:GLU:HB3	2.16	0.45
1:T:82:LEU:HD12	1:T:115:PHE:CE2	2.52	0.45
1:e:65:GLU:O	1:e:69:LYS:HG2	2.17	0.45
1:p:202:ARG:NE	1:p:202:ARG:HA	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:226:PHE:CE1	1:0:231:GLU:HG3	2.51	0.45
1:0:202:ARG:O	1:0:205:ALA:HB3	2.18	0.45
1:q:226:PHE:CE1	1:1:231:GLU:HG3	2.52	0.45
1:K:179:LEU:O	1:K:180:LEU:C	2.60	0.45
1:L:40:VAL:O	1:L:41:GLU:HB3	2.16	0.45
1:L:177:GLU:HB3	1:L:178:PRO:CD	2.46	0.45
1:i:156:LYS:HA	1:i:159:LYS:HZ3	1.82	0.45
1:i:177:GLU:HB3	1:i:178:PRO:CD	2.47	0.45
1:i:200:ASP:OD2	1:i:200:ASP:N	2.49	0.45
1:t:200:ASP:OD2	1:t:200:ASP:N	2.49	0.45
1:u:226:PHE:HZ	1:5:231:GLU:HG3	1.81	0.45
1:O:65:GLU:O	1:O:69:LYS:HG2	2.17	0.45
1:v:65:GLU:O	1:v:69:LYS:HG2	2.17	0.45
1:6:40:VAL:O	1:6:41:GLU:HB3	2.16	0.45
1:l:82:LEU:HD12	1:l:115:PHE:CE2	2.52	0.45
1:B:40:VAL:O	1:B:41:GLU:HB3	2.16	0.44
1:Q:226:PHE:CE1	1:b:231:GLU:HG3	2.52	0.44
1:m:200:ASP:OD2	1:m:200:ASP:N	2.45	0.44
1:J:82:LEU:HD12	1:J:115:PHE:CE2	2.52	0.44
1:2:93:GLU:HA	1:2:101:LYS:HZ2	1.82	0.44
1:h:200:ASP:OD2	1:h:200:ASP:N	2.46	0.44
1:M:82:LEU:HD12	1:M:115:PHE:CE2	2.52	0.44
1:i:82:LEU:HD12	1:i:115:PHE:CE2	2.52	0.44
1:4:202:ARG:O	1:4:205:ALA:HB3	2.18	0.44
1:Z:177:GLU:HB3	1:Z:182:LEU:HD11	1.98	0.44
1:6:82:LEU:HD12	1:6:115:PHE:CE2	2.52	0.44
1:w:82:LEU:HD12	1:w:115:PHE:CE2	2.52	0.44
1:B:93:GLU:HA	1:B:101:LYS:HZ2	1.83	0.44
1:D:226:PHE:CE1	1:E:231:GLU:HG3	2.51	0.44
1:G:32:LEU:HD12	1:G:32:LEU:HA	1.76	0.44
1:y:40:VAL:O	1:y:41:GLU:HB3	2.16	0.44
1:y:100:LEU:HD13	1:y:103:TYR:HD2	1.83	0.44
1:H:82:LEU:HD12	1:H:115:PHE:CE2	2.52	0.44
1:0:82:LEU:HD12	1:0:115:PHE:CE2	2.52	0.44
1:U:226:PHE:CE1	1:f:231:GLU:HG3	2.52	0.44
1:X:100:LEU:HD13	1:X:103:TYR:HD2	1.83	0.44
1:u:100:LEU:HD13	1:u:103:TYR:HD2	1.83	0.44
1:5:82:LEU:HD12	1:5:115:PHE:CE2	2.52	0.44
1:Z:40:VAL:O	1:Z:41:GLU:HB3	2.16	0.44
1:v:40:VAL:O	1:v:41:GLU:HB3	2.16	0.44
1:v:202:ARG:O	1:v:205:ALA:HB3	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:177:GLU:HB3	1:6:178:PRO:CD	2.46	0.44
1:P:178:PRO:HG2	1:P:181:ASP:HB3	1.99	0.44
1:7:40:VAL:O	1:7:41:GLU:HB3	2.16	0.44
1:B:100:LEU:HD13	1:B:103:TYR:HD2	1.83	0.44
1:C:100:LEU:HD13	1:C:103:TYR:HD2	1.83	0.44
1:C:178:PRO:HG2	1:C:181:ASP:HB3	2.00	0.44
1:x:171:ARG:NH1	1:x:177:GLU:OE2	2.50	0.44
1:R:65:GLU:O	1:R:69:LYS:HG2	2.17	0.44
1:R:82:LEU:HD12	1:R:115:PHE:CE2	2.52	0.44
1:c:177:GLU:HB3	1:c:178:PRO:CD	2.46	0.44
1:n:40:VAL:O	1:n:41:GLU:HB3	2.16	0.44
1:n:200:ASP:OD2	1:n:200:ASP:N	2.49	0.44
1:T:40:VAL:O	1:T:41:GLU:HB3	2.16	0.44
1:T:226:PHE:CE1	1:e:231:GLU:HG3	2.52	0.44
1:e:177:GLU:HB3	1:e:178:PRO:CD	2.46	0.44
1:e:202:ARG:O	1:e:205:ALA:HB3	2.18	0.44
1:0:65:GLU:O	1:0:69:LYS:HG2	2.17	0.44
1:1:202:ARG:O	1:1:205:ALA:HB3	2.16	0.44
1:K:100:LEU:HD13	1:K:103:TYR:HD2	1.83	0.44
1:g:77:GLU:OE1	1:g:77:GLU:N	2.42	0.44
1:2:40:VAL:O	1:2:41:GLU:HB3	2.16	0.44
1:2:100:LEU:HD13	1:2:103:TYR:HD2	1.83	0.44
1:L:178:PRO:HG2	1:L:181:ASP:HB3	1.99	0.44
1:s:226:PHE:CE1	1:3:231:GLU:HG3	2.51	0.44
1:i:92:VAL:HG12	1:i:101:LYS:HZ2	1.82	0.44
1:Y:82:LEU:HD12	1:Y:115:PHE:CE2	2.52	0.44
1:u:202:ARG:O	1:u:205:ALA:HB3	2.17	0.44
1:k:100:LEU:HD13	1:k:103:TYR:HD2	1.83	0.44
1:E:178:PRO:HG2	1:E:181:ASP:HB3	2.00	0.44
1:Q:100:LEU:HD13	1:Q:103:TYR:HD2	1.83	0.44
1:Q:132:ASN:HB2	1:Q:155:LEU:HD21	2.00	0.44
1:d:178:PRO:HG2	1:d:181:ASP:HB3	2.00	0.44
1:0:93:GLU:HA	1:0:101:LYS:HZ2	1.83	0.44
1:f:202:ARG:NE	1:f:202:ARG:HA	2.33	0.44
1:1:65:GLU:O	1:1:69:LYS:HG2	2.17	0.44
1:L:202:ARG:O	1:L:205:ALA:HB3	2.17	0.44
1:W:65:GLU:O	1:W:69:LYS:HG2	2.17	0.44
1:s:65:GLU:O	1:s:69:LYS:HG2	2.17	0.44
1:s:82:LEU:HD12	1:s:115:PHE:CE2	2.52	0.44
1:s:156:LYS:HA	1:s:159:LYS:HZ3	1.82	0.44
1:X:65:GLU:O	1:X:69:LYS:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:82:LEU:HD12	1:4:115:PHE:CE2	2.52	0.44
1:u:40:VAL:O	1:u:41:GLU:HB3	2.16	0.44
1:O:177:GLU:HB3	1:O:178:PRO:CD	2.46	0.44
1:6:65:GLU:O	1:6:69:LYS:HG2	2.17	0.44
1:B:226:PHE:CE1	1:C:231:GLU:HG3	2.52	0.44
1:F:65:GLU:O	1:F:69:LYS:HG2	2.17	0.44
1:F:100:LEU:HD13	1:F:103:TYR:HD2	1.83	0.44
1:b:65:GLU:O	1:b:69:LYS:HG2	2.17	0.44
1:R:100:LEU:HD13	1:R:103:TYR:HD2	1.83	0.44
1:H:65:GLU:O	1:H:69:LYS:HG2	2.17	0.44
1:z:65:GLU:O	1:z:69:LYS:HG2	2.17	0.44
1:T:202:ARG:O	1:T:205:ALA:HB3	2.17	0.44
1:p:178:PRO:O	1:p:182:LEU:HD12	2.17	0.44
1:J:156:LYS:HA	1:J:159:LYS:HZ3	1.82	0.44
1:f:65:GLU:O	1:f:69:LYS:HG2	2.17	0.44
1:q:100:LEU:HD13	1:q:103:TYR:HD2	1.83	0.44
1:q:156:LYS:HA	1:q:159:LYS:HZ3	1.82	0.44
1:V:226:PHE:CE1	1:g:231:GLU:HG3	2.52	0.44
1:M:100:LEU:HD13	1:M:103:TYR:HD2	1.83	0.44
1:X:40:VAL:O	1:X:41:GLU:HB3	2.16	0.44
1:Z:200:ASP:OD2	1:Z:200:ASP:N	2.49	0.44
1:6:100:LEU:HD13	1:6:103:TYR:HD2	1.83	0.44
1:a:8:LYS:H	1:a:8:LYS:HG2	1.61	0.44
1:l:65:GLU:O	1:l:69:LYS:HG2	2.17	0.44
1:A:177:GLU:HB3	1:A:178:PRO:CD	2.46	0.44
1:F:178:PRO:O	1:F:182:LEU:HD12	2.18	0.44
1:Q:156:LYS:HA	1:Q:159:LYS:HZ3	1.82	0.44
1:m:100:LEU:HD13	1:m:103:TYR:HD2	1.83	0.44
1:x:177:GLU:HB3	1:x:182:LEU:HD11	2.00	0.44
1:S:100:LEU:HD13	1:S:103:TYR:HD2	1.83	0.44
1:d:202:ARG:O	1:d:205:ALA:HB3	2.17	0.44
1:q:65:GLU:O	1:q:69:LYS:HG2	2.17	0.44
1:W:177:GLU:HB3	1:W:178:PRO:CD	2.46	0.44
1:s:8:LYS:H	1:s:8:LYS:HG2	1.61	0.44
1:X:202:ARG:O	1:X:205:ALA:HB3	2.17	0.44
1:i:132:ASN:HB2	1:i:155:LEU:HD21	2.00	0.44
1:Y:202:ARG:O	1:Y:205:ALA:HB3	2.18	0.44
1:j:100:LEU:HD13	1:j:103:TYR:HD2	1.83	0.44
1:5:100:LEU:HD13	1:5:103:TYR:HD2	1.83	0.44
1:5:132:ASN:HB2	1:5:155:LEU:HD21	2.00	0.44
1:Z:171:ARG:NH1	1:Z:177:GLU:OE2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:202:ARG:O	1:7:205:ALA:HB3	2.17	0.44
1:C:202:ARG:O	1:C:205:ALA:HB3	2.18	0.44
1:F:132:ASN:HB2	1:F:155:LEU:HD21	2.00	0.44
1:Q:65:GLU:O	1:Q:69:LYS:HG2	2.17	0.44
1:S:32:LEU:HD12	1:S:32:LEU:HA	1.76	0.44
1:S:202:ARG:O	1:S:205:ALA:HB3	2.17	0.44
1:S:226:PHE:CE1	1:d:231:GLU:HG3	2.52	0.44
1:d:32:LEU:HD12	1:d:32:LEU:HA	1.76	0.44
1:J:100:LEU:HD13	1:J:103:TYR:HD2	1.83	0.44
1:f:132:ASN:HB2	1:f:155:LEU:HD21	2.00	0.44
1:q:132:ASN:HB2	1:q:155:LEU:HD21	2.00	0.44
1:V:177:GLU:HB3	1:V:178:PRO:CD	2.46	0.44
1:V:177:GLU:OE1	1:V:177:GLU:N	2.49	0.44
1:W:202:ARG:O	1:W:205:ALA:HB3	2.18	0.44
1:h:178:PRO:O	1:h:182:LEU:HD12	2.18	0.44
1:X:132:ASN:HB2	1:X:155:LEU:HD21	2.00	0.44
1:t:202:ARG:NE	1:t:202:ARG:HA	2.32	0.44
1:4:93:GLU:HA	1:4:101:LYS:HZ1	1.81	0.44
1:u:65:GLU:O	1:u:69:LYS:HG2	2.17	0.44
1:u:132:ASN:HB2	1:u:155:LEU:HD21	2.00	0.44
1:O:82:LEU:HD12	1:O:115:PHE:CE2	2.52	0.44
1:O:156:LYS:HA	1:O:159:LYS:HZ3	1.83	0.44
1:k:132:ASN:HB2	1:k:155:LEU:HD21	2.00	0.44
1:w:65:GLU:O	1:w:69:LYS:HG2	2.17	0.44
1:7:32:LEU:HD12	1:7:32:LEU:HA	1.76	0.44
1:7:100:LEU:HD13	1:7:103:TYR:HD2	1.83	0.44
1:c:156:LYS:HA	1:c:159:LYS:HZ3	1.83	0.44
1:c:178:PRO:HG2	1:c:181:ASP:HB3	1.99	0.44
1:y:132:ASN:HB2	1:y:155:LEU:HD21	2.00	0.44
1:H:177:GLU:HB3	1:H:178:PRO:CD	2.46	0.44
1:d:132:ASN:HB2	1:d:155:LEU:HD21	2.00	0.44
1:0:8:LYS:H	1:0:8:LYS:HG2	1.61	0.44
1:0:132:ASN:HB2	1:0:155:LEU:HD21	2.00	0.44
1:K:202:ARG:O	1:K:205:ALA:HB3	2.18	0.44
1:s:132:ASN:HB2	1:s:155:LEU:HD21	2.00	0.44
1:i:44:LEU:HD22	1:u:14:LYS:HB2	1.98	0.44
1:i:100:LEU:HD13	1:i:103:TYR:HD2	1.83	0.44
1:i:202:ARG:O	1:i:205:ALA:HB3	2.18	0.44
1:j:177:GLU:HB3	1:j:178:PRO:CD	2.47	0.44
1:5:156:LYS:HA	1:5:159:LYS:HZ3	1.83	0.44
1:6:177:GLU:OE1	1:6:177:GLU:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:202:ARG:O	1:P:205:ALA:HB3	2.18	0.44
1:a:100:LEU:HD13	1:a:103:TYR:HD2	1.83	0.44
1:w:171:ARG:NH1	1:w:177:GLU:OE2	2.51	0.44
1:B:202:ARG:NE	1:B:202:ARG:HA	2.33	0.44
1:E:100:LEU:HD13	1:E:103:TYR:HD2	1.83	0.44
1:b:100:LEU:HD13	1:b:103:TYR:HD2	1.83	0.44
1:c:82:LEU:HD12	1:c:115:PHE:CE2	2.52	0.44
1:c:226:PHE:CE1	1:n:231:GLU:HG3	2.53	0.44
1:H:171:ARG:NH1	1:H:177:GLU:OE2	2.51	0.44
1:o:100:LEU:HD13	1:o:103:TYR:HD2	1.83	0.44
1:z:202:ARG:O	1:z:205:ALA:HB3	2.17	0.44
1:I:80:LEU:HG	1:I:84:TYR:CE2	2.53	0.44
1:I:100:LEU:HD13	1:I:103:TYR:HD2	1.83	0.44
1:I:177:GLU:HB3	1:I:178:PRO:CD	2.47	0.44
1:T:177:GLU:HB3	1:T:178:PRO:CD	2.47	0.44
1:0:156:LYS:HA	1:0:159:LYS:HZ3	1.82	0.44
1:r:177:GLU:HB3	1:r:178:PRO:CD	2.46	0.44
1:W:226:PHE:CE1	1:h:231:GLU:HG3	2.52	0.44
1:5:202:ARG:O	1:5:205:ALA:HB3	2.18	0.44
1:P:65:GLU:O	1:P:69:LYS:HG2	2.17	0.44
1:P:132:ASN:HB2	1:P:155:LEU:HD21	2.00	0.44
1:a:132:ASN:HB2	1:a:155:LEU:HD21	2.00	0.44
1:l:202:ARG:O	1:l:205:ALA:HB3	2.17	0.44
1:w:226:PHE:CE1	1:7:231:GLU:HG3	2.52	0.44
1:x:80:LEU:HG	1:x:84:TYR:CE2	2.53	0.43
1:n:132:ASN:HB2	1:n:155:LEU:HD21	2.00	0.43
1:n:171:ARG:NH1	1:n:177:GLU:OE2	2.51	0.43
1:y:80:LEU:HG	1:y:84:TYR:CE2	2.53	0.43
1:H:202:ARG:O	1:H:205:ALA:HB3	2.17	0.43
1:o:8:LYS:H	1:o:8:LYS:HG2	1.60	0.43
1:o:132:ASN:HB2	1:o:155:LEU:HD21	2.00	0.43
1:e:171:ARG:NH1	1:e:177:GLU:OE2	2.51	0.43
1:U:100:LEU:HD13	1:U:103:TYR:HD2	1.83	0.43
1:f:100:LEU:HD13	1:f:103:TYR:HD2	1.83	0.43
1:1:80:LEU:HG	1:1:84:TYR:CE2	2.53	0.43
1:g:100:LEU:HD13	1:g:103:TYR:HD2	1.83	0.43
1:g:226:PHE:CE1	1:r:231:GLU:HG3	2.53	0.43
1:r:202:ARG:O	1:r:205:ALA:HB3	2.18	0.43
1:W:171:ARG:NH1	1:W:177:GLU:OE2	2.51	0.43
1:N:178:PRO:O	1:N:182:LEU:HD12	2.18	0.43
1:O:80:LEU:HG	1:O:84:TYR:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:132:ASN:HB2	1:Z:155:LEU:HD21	2.00	0.43
1:P:80:LEU:HG	1:P:84:TYR:CE2	2.53	0.43
1:l:178:PRO:HG2	1:l:181:ASP:HB3	1.99	0.43
1:7:80:LEU:HG	1:7:84:TYR:CE2	2.53	0.43
1:A:202:ARG:O	1:A:205:ALA:HB3	2.18	0.43
1:D:177:GLU:HB3	1:D:178:PRO:CD	2.47	0.43
1:G:202:ARG:O	1:G:205:ALA:HB3	2.18	0.43
1:H:100:LEU:HD13	1:H:103:TYR:HD2	1.83	0.43
1:S:80:LEU:HG	1:S:84:TYR:CE2	2.53	0.43
1:d:65:GLU:O	1:d:69:LYS:HG2	2.17	0.43
1:d:80:LEU:HG	1:d:84:TYR:CE2	2.53	0.43
1:d:177:GLU:HB3	1:d:178:PRO:CD	2.48	0.43
1:d:226:PHE:CE1	1:o:231:GLU:HG3	2.53	0.43
1:T:132:ASN:HB2	1:T:155:LEU:HD21	2.00	0.43
1:T:178:PRO:HG2	1:T:181:ASP:HB3	2.00	0.43
1:0:80:LEU:HG	1:0:84:TYR:CE2	2.53	0.43
1:U:80:LEU:HG	1:U:84:TYR:CE2	2.53	0.43
1:f:178:PRO:O	1:f:182:LEU:HD12	2.18	0.43
1:1:100:LEU:HD13	1:1:103:TYR:HD2	1.83	0.43
1:K:132:ASN:HB2	1:K:155:LEU:HD21	2.00	0.43
1:L:132:ASN:HB2	1:L:155:LEU:HD21	2.00	0.43
1:s:80:LEU:HG	1:s:84:TYR:CE2	2.53	0.43
1:3:80:LEU:HG	1:3:84:TYR:CE2	2.53	0.43
1:N:80:LEU:HG	1:N:84:TYR:CE2	2.54	0.43
1:Y:93:GLU:HA	1:Y:101:LYS:HZ1	1.82	0.43
1:k:80:LEU:HG	1:k:84:TYR:CE2	2.53	0.43
1:w:100:LEU:HD13	1:w:103:TYR:HD2	1.83	0.43
1:C:132:ASN:HB2	1:C:155:LEU:HD21	2.00	0.43
1:Q:93:GLU:HA	1:Q:101:LYS:HZ1	1.83	0.43
1:b:80:LEU:HG	1:b:84:TYR:CE2	2.53	0.43
1:x:100:LEU:HD13	1:x:103:TYR:HD2	1.83	0.43
1:x:202:ARG:O	1:x:205:ALA:HB3	2.18	0.43
1:c:80:LEU:HG	1:c:84:TYR:CE2	2.53	0.43
1:S:178:PRO:O	1:S:182:LEU:HD12	2.18	0.43
1:o:177:GLU:HB3	1:o:178:PRO:CD	2.47	0.43
1:z:178:PRO:HG2	1:z:181:ASP:HB3	1.99	0.43
1:e:80:LEU:HG	1:e:84:TYR:CE2	2.53	0.43
1:V:100:LEU:HD13	1:V:103:TYR:HD2	1.83	0.43
1:g:132:ASN:HB2	1:g:155:LEU:HD21	2.00	0.43
1:g:177:GLU:HB3	1:g:178:PRO:CD	2.46	0.43
1:h:226:PHE:CE1	1:s:231:GLU:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:100:LEU:HD13	1:3:103:TYR:HD2	1.83	0.43
1:t:80:LEU:HG	1:t:84:TYR:CE2	2.54	0.43
1:Y:100:LEU:HD13	1:Y:103:TYR:HD2	1.83	0.43
1:O:100:LEU:HD13	1:O:103:TYR:HD2	1.83	0.43
1:O:178:PRO:HG2	1:O:181:ASP:HB3	1.99	0.43
1:P:32:LEU:HA	1:P:32:LEU:HD12	1.76	0.43
1:P:177:GLU:HB3	1:P:178:PRO:CD	2.48	0.43
1:A:80:LEU:HG	1:A:84:TYR:CE2	2.53	0.43
1:A:226:PHE:CE1	1:B:231:GLU:HG3	2.54	0.43
1:B:178:PRO:O	1:B:182:LEU:HD12	2.18	0.43
1:C:226:PHE:CE1	1:D:231:GLU:HG3	2.53	0.43
1:E:132:ASN:HB2	1:E:155:LEU:HD21	2.00	0.43
1:Q:80:LEU:HG	1:Q:84:TYR:CE2	2.53	0.43
1:G:80:LEU:HG	1:G:84:TYR:CE2	2.53	0.43
1:R:177:GLU:HB3	1:R:178:PRO:CD	2.47	0.43
1:n:80:LEU:HG	1:n:84:TYR:CE2	2.53	0.43
1:H:132:ASN:HB2	1:H:155:LEU:HD21	2.00	0.43
1:z:57:LEU:HD12	1:z:57:LEU:HA	1.82	0.43
1:z:100:LEU:HD13	1:z:103:TYR:HD2	1.83	0.43
1:0:100:LEU:HD13	1:0:103:TYR:HD2	1.83	0.43
1:V:32:LEU:HD12	1:V:32:LEU:HA	1.76	0.43
1:r:80:LEU:HG	1:r:84:TYR:CE2	2.53	0.43
1:W:80:LEU:HG	1:W:84:TYR:CE2	2.54	0.43
1:M:80:LEU:HG	1:M:84:TYR:CE2	2.53	0.43
1:u:80:LEU:HG	1:u:84:TYR:CE2	2.53	0.43
1:Z:100:LEU:HD13	1:Z:103:TYR:HD2	1.83	0.43
1:k:202:ARG:HA	1:k:202:ARG:NE	2.32	0.43
1:v:132:ASN:HB2	1:v:155:LEU:HD21	2.00	0.43
1:P:100:LEU:HD13	1:P:103:TYR:HD2	1.83	0.43
1:l:80:LEU:HG	1:l:84:TYR:CE2	2.53	0.43
1:l:100:LEU:HD13	1:l:103:TYR:HD2	1.83	0.43
1:l:175:GLU:HB2	1:l:177:GLU:OE1	2.19	0.43
1:7:178:PRO:O	1:7:182:LEU:HD12	2.18	0.43
1:A:100:LEU:HD13	1:A:103:TYR:HD2	1.83	0.43
1:D:100:LEU:HD13	1:D:103:TYR:HD2	1.83	0.43
1:b:132:ASN:HB2	1:b:155:LEU:HD21	2.00	0.43
1:G:100:LEU:HD13	1:G:103:TYR:HD2	1.83	0.43
1:G:132:ASN:HB2	1:G:155:LEU:HD21	2.00	0.43
1:c:40:VAL:O	1:c:41:GLU:HB3	2.16	0.43
1:n:202:ARG:O	1:n:205:ALA:HB3	2.18	0.43
1:o:80:LEU:HG	1:o:84:TYR:CE2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:226:PHE:HZ	1:z:231:GLU:HG3	1.81	0.43
1:z:80:LEU:HG	1:z:84:TYR:CE2	2.54	0.43
1:I:226:PHE:CE1	1:T:231:GLU:HG3	2.54	0.43
1:q:80:LEU:HG	1:q:84:TYR:CE2	2.53	0.43
1:q:226:PHE:HZ	1:1:231:GLU:HG3	1.81	0.43
1:1:132:ASN:HB2	1:1:155:LEU:HD21	2.00	0.43
1:K:80:LEU:HG	1:K:84:TYR:CE2	2.53	0.43
1:L:80:LEU:HG	1:L:84:TYR:CE2	2.53	0.43
1:X:80:LEU:HG	1:X:84:TYR:CE2	2.54	0.43
1:i:226:PHE:CE1	1:t:231:GLU:HG3	2.53	0.43
1:O:226:PHE:CE1	1:Z:231:GLU:HG3	2.54	0.43
1:Z:80:LEU:HG	1:Z:84:TYR:CE2	2.54	0.43
1:v:80:LEU:HG	1:v:84:TYR:CE2	2.53	0.43
1:v:100:LEU:HD13	1:v:103:TYR:HD2	1.83	0.43
1:l:57:LEU:HD12	1:l:57:LEU:HA	1.82	0.43
1:w:132:ASN:HB2	1:w:155:LEU:HD21	2.00	0.43
1:w:177:GLU:HB3	1:w:178:PRO:CD	2.46	0.43
1:7:202:ARG:NE	1:7:202:ARG:HA	2.32	0.43
1:A:8:LYS:H	1:A:8:LYS:HG2	1.61	0.43
1:C:80:LEU:HG	1:C:84:TYR:CE2	2.53	0.43
1:E:155:LEU:HD23	1:E:155:LEU:HA	1.86	0.43
1:m:132:ASN:HB2	1:m:155:LEU:HD21	2.00	0.43
1:G:226:PHE:CE1	1:R:231:GLU:HG3	2.54	0.43
1:n:100:LEU:HD13	1:n:103:TYR:HD2	1.83	0.43
1:I:132:ASN:HB2	1:I:155:LEU:HD21	2.00	0.43
1:T:80:LEU:HG	1:T:84:TYR:CE2	2.54	0.43
1:T:100:LEU:HD13	1:T:103:TYR:HD2	1.83	0.43
1:J:178:PRO:HG2	1:J:181:ASP:HB3	2.00	0.43
1:U:132:ASN:HB2	1:U:155:LEU:HD21	2.00	0.43
1:1:8:LYS:H	1:1:8:LYS:HG2	1.61	0.43
1:2:178:PRO:O	1:2:182:LEU:HD12	2.18	0.43
1:s:100:LEU:HD13	1:s:103:TYR:HD2	1.83	0.43
1:M:132:ASN:HB2	1:M:155:LEU:HD21	2.00	0.43
1:4:100:LEU:HD13	1:4:103:TYR:HD2	1.83	0.43
1:j:80:LEU:HG	1:j:84:TYR:CE2	2.54	0.43
1:a:177:GLU:HB3	1:a:178:PRO:CD	2.47	0.43
1:A:132:ASN:HB2	1:A:155:LEU:HD21	2.00	0.43
1:D:80:LEU:HG	1:D:84:TYR:CE2	2.53	0.43
1:D:226:PHE:HZ	1:E:231:GLU:HG3	1.81	0.43
1:E:80:LEU:HG	1:E:84:TYR:CE2	2.53	0.43
1:b:226:PHE:CE1	1:m:231:GLU:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:80:LEU:HG	1:m:84:TYR:CE2	2.53	0.43
1:R:80:LEU:HG	1:R:84:TYR:CE2	2.53	0.43
1:c:100:LEU:HD13	1:c:103:TYR:HD2	1.83	0.43
1:c:132:ASN:HB2	1:c:155:LEU:HD21	2.00	0.43
1:S:155:LEU:HD23	1:S:155:LEU:HA	1.87	0.43
1:e:226:PHE:CE1	1:p:231:GLU:HG3	2.53	0.43
1:J:132:ASN:HB2	1:J:155:LEU:HD21	2.00	0.43
1:J:226:PHE:CE1	1:U:231:GLU:HG3	2.54	0.43
1:f:226:PHE:CE1	1:q:231:GLU:HG3	2.53	0.43
1:q:202:ARG:O	1:q:205:ALA:HB3	2.18	0.43
1:r:100:LEU:HD13	1:r:103:TYR:HD2	1.83	0.43
1:L:100:LEU:HD13	1:L:103:TYR:HD2	1.83	0.43
1:M:177:GLU:HB3	1:M:178:PRO:CD	2.47	0.43
1:Y:177:GLU:HB3	1:Y:178:PRO:CD	2.49	0.43
1:j:132:ASN:HB2	1:j:155:LEU:HD21	2.00	0.43
1:O:40:VAL:O	1:O:41:GLU:HB3	2.16	0.43
1:6:80:LEU:HG	1:6:84:TYR:CE2	2.53	0.43
1:P:226:PHE:CE1	1:a:231:GLU:HG3	2.54	0.43
1:a:80:LEU:HG	1:a:84:TYR:CE2	2.54	0.43
1:l:226:PHE:CE1	1:w:231:GLU:HG3	2.53	0.43
1:C:93:GLU:HA	1:C:101:LYS:HZ1	1.83	0.43
1:E:177:GLU:HB3	1:E:178:PRO:CD	2.47	0.43
1:Q:178:PRO:HG2	1:Q:181:ASP:HB3	2.00	0.43
1:Q:202:ARG:O	1:Q:205:ALA:HB3	2.18	0.43
1:m:178:PRO:HG2	1:m:181:ASP:HB3	2.00	0.43
1:x:132:ASN:HB2	1:x:155:LEU:HD21	2.00	0.43
1:d:100:LEU:HD13	1:d:103:TYR:HD2	1.83	0.43
1:J:80:LEU:HG	1:J:84:TYR:CE2	2.53	0.43
1:V:132:ASN:HB2	1:V:155:LEU:HD21	2.00	0.43
1:g:80:LEU:HG	1:g:84:TYR:CE2	2.54	0.43
1:r:132:ASN:HB2	1:r:155:LEU:HD21	2.00	0.43
1:s:178:PRO:HG2	1:s:181:ASP:HB3	2.01	0.43
1:k:178:PRO:O	1:k:182:LEU:HD12	2.18	0.43
1:v:178:PRO:HG2	1:v:181:ASP:HB3	2.01	0.43
1:7:132:ASN:HB2	1:7:155:LEU:HD21	2.00	0.43
1:D:32:LEU:HD12	1:D:32:LEU:HA	1.76	0.43
1:F:226:PHE:CE1	1:Q:231:GLU:HG3	2.54	0.43
1:n:177:GLU:HB2	1:n:182:LEU:HD11	2.00	0.43
1:z:175:GLU:HB2	1:z:177:GLU:OE1	2.19	0.43
1:J:32:LEU:HD12	1:J:32:LEU:HA	1.76	0.43
1:U:202:ARG:O	1:U:205:ALA:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:80:LEU:HG	1:V:84:TYR:CE2	2.54	0.43
1:g:155:LEU:HD23	1:g:155:LEU:HA	1.86	0.43
1:g:175:GLU:HB2	1:g:177:GLU:OE1	2.19	0.43
1:2:156:LYS:HA	1:2:159:LYS:HZ3	1.84	0.43
1:L:8:LYS:H	1:L:8:LYS:HG2	1.61	0.43
1:L:66:GLU:OE1	1:L:66:GLU:N	2.51	0.43
1:L:175:GLU:HB2	1:L:177:GLU:OE1	2.19	0.43
1:h:80:LEU:HG	1:h:84:TYR:CE2	2.53	0.43
1:i:80:LEU:HG	1:i:84:TYR:CE2	2.53	0.43
1:t:100:LEU:HD13	1:t:103:TYR:HD2	1.83	0.43
1:N:100:LEU:HD13	1:N:103:TYR:HD2	1.83	0.43
1:N:226:PHE:CE1	1:Y:231:GLU:HG3	2.54	0.43
1:5:80:LEU:HG	1:5:84:TYR:CE2	2.53	0.43
1:Z:177:GLU:HB2	1:Z:182:LEU:HD11	2.00	0.43
1:Z:202:ARG:O	1:Z:205:ALA:HB3	2.18	0.43
1:D:132:ASN:HB2	1:D:155:LEU:HD21	2.00	0.43
1:m:57:LEU:HD12	1:m:57:LEU:HA	1.82	0.43
1:G:93:GLU:HA	1:G:101:LYS:HZ2	1.84	0.43
1:S:132:ASN:HB2	1:S:155:LEU:HD21	2.00	0.43
1:T:66:GLU:OE1	1:T:66:GLU:N	2.51	0.43
1:e:177:GLU:HB2	1:e:182:LEU:HD11	2.00	0.43
1:p:80:LEU:HG	1:p:84:TYR:CE2	2.53	0.43
1:J:175:GLU:HB2	1:J:177:GLU:OE1	2.19	0.43
1:K:226:PHE:CE1	1:V:231:GLU:HG3	2.54	0.43
1:2:80:LEU:HG	1:2:84:TYR:CE2	2.53	0.43
1:2:202:ARG:NE	1:2:202:ARG:HA	2.33	0.43
1:W:177:GLU:HB2	1:W:182:LEU:HD11	2.01	0.43
1:3:132:ASN:HB2	1:3:155:LEU:HD21	2.00	0.43
1:X:202:ARG:NE	1:X:202:ARG:HA	2.34	0.43
1:w:202:ARG:O	1:w:205:ALA:HB3	2.18	0.43
1:y:178:PRO:O	1:y:182:LEU:HD12	2.18	0.42
1:J:57:LEU:HD12	1:J:57:LEU:HA	1.82	0.42
1:r:171:ARG:NH1	1:r:177:GLU:OE2	2.51	0.42
1:4:177:GLU:HB3	1:4:178:PRO:CD	2.49	0.42
1:Y:80:LEU:HG	1:Y:84:TYR:CE2	2.53	0.42
1:Y:132:ASN:HB2	1:Y:155:LEU:HD21	2.00	0.42
1:j:8:LYS:H	1:j:8:LYS:HG2	1.61	0.42
1:j:226:PHE:CE1	1:u:231:GLU:HG3	2.53	0.42
1:O:132:ASN:HB2	1:O:155:LEU:HD21	2.00	0.42
1:A:231:GLU:HG3	1:E:226:PHE:CE1	2.54	0.42
1:B:80:LEU:HG	1:B:84:TYR:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:177:GLU:OE1	1:D:177:GLU:N	2.51	0.42
1:Q:179:LEU:O	1:Q:180:LEU:C	2.60	0.42
1:b:8:LYS:H	1:b:8:LYS:HG2	1.61	0.42
1:x:155:LEU:HD23	1:x:155:LEU:HA	1.86	0.42
1:H:80:LEU:HG	1:H:84:TYR:CE2	2.53	0.42
1:z:132:ASN:HB2	1:z:155:LEU:HD21	2.00	0.42
1:e:132:ASN:HB2	1:e:155:LEU:HD21	2.00	0.42
1:r:8:LYS:H	1:r:8:LYS:HG2	1.61	0.42
1:L:231:GLU:HG3	1:3:226:PHE:CE1	2.54	0.42
1:h:100:LEU:HD13	1:h:103:TYR:HD2	1.83	0.42
1:M:231:GLU:HG3	1:4:226:PHE:CE1	2.54	0.42
1:4:132:ASN:HB2	1:4:155:LEU:HD21	2.00	0.42
1:v:57:LEU:HA	1:v:57:LEU:HD12	1.82	0.42
1:a:177:GLU:OE1	1:a:177:GLU:N	2.51	0.42
1:l:132:ASN:HB2	1:l:155:LEU:HD21	2.00	0.42
1:7:155:LEU:HD23	1:7:155:LEU:HA	1.87	0.42
1:B:132:ASN:HB2	1:B:155:LEU:HD21	2.00	0.42
1:x:8:LYS:H	1:x:8:LYS:HG2	1.61	0.42
1:H:226:PHE:CE1	1:S:231:GLU:HG3	2.54	0.42
1:T:8:LYS:H	1:T:8:LYS:HG2	1.61	0.42
1:T:230:ARG:HD3	1:e:231:GLU:OE2	2.20	0.42
1:e:8:LYS:H	1:e:8:LYS:HG2	1.61	0.42
1:p:100:LEU:HD13	1:p:103:TYR:HD2	1.83	0.42
1:L:226:PHE:CE1	1:W:231:GLU:HG3	2.54	0.42
1:X:179:LEU:O	1:X:180:LEU:C	2.62	0.42
1:4:80:LEU:HG	1:4:84:TYR:CE2	2.53	0.42
1:4:178:PRO:HG2	1:4:181:ASP:HB3	1.99	0.42
1:Y:202:ARG:NE	1:Y:202:ARG:HA	2.34	0.42
1:O:200:ASP:OD2	1:O:200:ASP:N	2.48	0.42
1:6:132:ASN:HB2	1:6:155:LEU:HD21	2.00	0.42
1:B:230:ARG:HD3	1:C:231:GLU:OE2	2.20	0.42
1:E:175:GLU:HB2	1:E:177:GLU:OE1	2.19	0.42
1:F:80:LEU:HG	1:F:84:TYR:CE2	2.54	0.42
1:F:98:GLU:O	1:F:101:LYS:HB2	2.20	0.42
1:m:32:LEU:HD12	1:m:32:LEU:HA	1.76	0.42
1:m:175:GLU:HB2	1:m:177:GLU:OE1	2.19	0.42
1:o:177:GLU:OE1	1:o:177:GLU:N	2.51	0.42
1:I:98:GLU:O	1:I:101:LYS:HB2	2.20	0.42
1:I:177:GLU:OE1	1:I:177:GLU:N	2.51	0.42
1:0:177:GLU:HB3	1:0:178:PRO:CD	2.49	0.42
1:J:8:LYS:H	1:J:8:LYS:HG2	1.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:98:GLU:O	1:J:101:LYS:HB2	2.20	0.42
1:f:80:LEU:HG	1:f:84:TYR:CE2	2.53	0.42
1:2:132:ASN:HB2	1:2:155:LEU:HD21	2.00	0.42
1:W:132:ASN:HB2	1:W:155:LEU:HD21	2.00	0.42
1:h:132:ASN:HB2	1:h:155:LEU:HD21	2.00	0.42
1:s:179:LEU:O	1:s:180:LEU:C	2.61	0.42
1:X:178:PRO:HG2	1:X:181:ASP:HB3	2.00	0.42
1:N:132:ASN:HB2	1:N:155:LEU:HD21	2.00	0.42
1:j:155:LEU:HD23	1:j:155:LEU:HA	1.87	0.42
1:k:226:PHE:CE1	1:v:231:GLU:HG3	2.53	0.42
1:A:171:ARG:NH1	1:A:177:GLU:OE2	2.52	0.42
1:m:98:GLU:O	1:m:101:LYS:HB2	2.20	0.42
1:x:177:GLU:HB2	1:x:182:LEU:HD11	2.00	0.42
1:R:132:ASN:HB2	1:R:155:LEU:HD21	2.00	0.42
1:o:171:ARG:NH1	1:o:177:GLU:OE2	2.53	0.42
1:p:132:ASN:HB2	1:p:155:LEU:HD21	2.00	0.42
1:U:200:ASP:OD2	1:U:200:ASP:N	2.49	0.42
1:r:177:GLU:OE1	1:r:177:GLU:N	2.50	0.42
1:s:177:GLU:HB3	1:s:178:PRO:CD	2.49	0.42
1:3:98:GLU:O	1:3:101:LYS:HB2	2.20	0.42
1:M:177:GLU:OE1	1:M:177:GLU:N	2.49	0.42
1:i:66:GLU:OE1	1:i:66:GLU:N	2.51	0.42
1:N:231:GLU:HG3	1:5:226:PHE:CE1	2.54	0.42
1:5:66:GLU:OE1	1:5:66:GLU:N	2.51	0.42
1:w:80:LEU:HG	1:w:84:TYR:CE2	2.54	0.42
1:w:177:GLU:HB2	1:w:182:LEU:HD11	2.00	0.42
1:E:98:GLU:O	1:E:101:LYS:HB2	2.20	0.42
1:Q:8:LYS:H	1:Q:8:LYS:HG2	1.61	0.42
1:Q:230:ARG:HD3	1:b:231:GLU:OE2	2.20	0.42
1:R:66:GLU:OE1	1:R:66:GLU:N	2.51	0.42
1:R:177:GLU:OE1	1:R:177:GLU:N	2.52	0.42
1:z:98:GLU:O	1:z:101:LYS:HB2	2.20	0.42
1:I:171:ARG:NH1	1:I:177:GLU:OE2	2.53	0.42
1:e:100:LEU:HD13	1:e:103:TYR:HD2	1.83	0.42
1:0:179:LEU:O	1:0:180:LEU:C	2.61	0.42
1:f:98:GLU:O	1:f:101:LYS:HB2	2.20	0.42
1:q:8:LYS:H	1:q:8:LYS:HG2	1.61	0.42
1:V:230:ARG:HD3	1:g:231:GLU:OE2	2.20	0.42
1:M:8:LYS:H	1:M:8:LYS:HG2	1.61	0.42
1:X:230:ARG:HD3	1:i:231:GLU:OE2	2.20	0.42
1:t:132:ASN:HB2	1:t:155:LEU:HD21	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:178:PRO:O	1:t:182:LEU:HD12	2.19	0.42
1:4:98:GLU:O	1:4:101:LYS:HB2	2.20	0.42
1:Y:178:PRO:HG2	1:Y:181:ASP:HB3	2.00	0.42
1:O:231:GLU:HG3	1:6:226:PHE:CE1	2.54	0.42
1:v:144:ASP:O	1:v:148:ILE:HG23	2.20	0.42
1:P:98:GLU:O	1:P:101:LYS:HB2	2.20	0.42
1:a:171:ARG:NH1	1:a:177:GLU:OE2	2.53	0.42
1:a:230:ARG:HD3	1:l:231:GLU:OE2	2.20	0.42
1:E:66:GLU:OE1	1:E:66:GLU:N	2.51	0.42
1:Q:144:ASP:O	1:Q:148:ILE:HG23	2.20	0.42
1:G:144:ASP:O	1:G:148:ILE:HG23	2.20	0.42
1:R:230:ARG:HD3	1:c:231:GLU:OE2	2.20	0.42
1:c:144:ASP:O	1:c:148:ILE:HG23	2.20	0.42
1:U:69:LYS:O	1:U:73:GLU:HG3	2.20	0.42
1:q:98:GLU:O	1:q:101:LYS:HB2	2.20	0.42
1:q:144:ASP:O	1:q:148:ILE:HG23	2.20	0.42
1:g:98:GLU:O	1:g:101:LYS:HB2	2.20	0.42
1:W:8:LYS:H	1:W:8:LYS:HG2	1.61	0.42
1:W:100:LEU:HD13	1:W:103:TYR:HD2	1.83	0.42
1:W:230:ARG:HD3	1:h:231:GLU:OE2	2.20	0.42
1:M:226:PHE:CE1	1:X:231:GLU:HG3	2.54	0.42
1:X:39:LEU:HB3	1:X:45:ILE:HG12	2.02	0.42
1:Y:69:LYS:O	1:Y:73:GLU:HG3	2.20	0.42
1:j:93:GLU:HA	1:j:101:LYS:HZ1	1.84	0.42
1:u:39:LEU:HB3	1:u:45:ILE:HG12	2.02	0.42
1:O:144:ASP:O	1:O:148:ILE:HG23	2.20	0.42
1:k:144:ASP:O	1:k:148:ILE:HG23	2.20	0.42
1:v:39:LEU:HB3	1:v:45:ILE:HG12	2.02	0.42
1:A:69:LYS:O	1:A:73:GLU:HG3	2.20	0.42
1:C:69:LYS:O	1:C:73:GLU:HG3	2.20	0.42
1:C:144:ASP:O	1:C:148:ILE:HG23	2.20	0.42
1:D:171:ARG:NH1	1:D:177:GLU:OE2	2.53	0.42
1:F:144:ASP:O	1:F:148:ILE:HG23	2.20	0.42
1:Q:202:ARG:NE	1:Q:202:ARG:HA	2.35	0.42
1:b:32:LEU:HD12	1:b:32:LEU:HA	1.76	0.42
1:m:66:GLU:OE1	1:m:66:GLU:N	2.51	0.42
1:x:69:LYS:O	1:x:73:GLU:HG3	2.20	0.42
1:x:144:ASP:O	1:x:148:ILE:HG23	2.20	0.42
1:G:69:LYS:O	1:G:73:GLU:HG3	2.20	0.42
1:R:69:LYS:O	1:R:73:GLU:HG3	2.20	0.42
1:y:144:ASP:O	1:y:148:ILE:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:98:GLU:O	1:H:101:LYS:HB2	2.20	0.42
1:z:182:LEU:HD12	1:z:182:LEU:H	1.85	0.42
1:I:156:LYS:HA	1:I:159:LYS:HZ3	1.84	0.42
1:T:175:GLU:HB2	1:T:177:GLU:OE1	2.20	0.42
1:J:69:LYS:O	1:J:73:GLU:HG3	2.20	0.42
1:U:144:ASP:O	1:U:148:ILE:HG23	2.20	0.42
1:f:144:ASP:O	1:f:148:ILE:HG23	2.20	0.42
1:q:178:PRO:HG2	1:q:181:ASP:HB3	2.01	0.42
1:q:179:LEU:O	1:q:180:LEU:C	2.61	0.42
1:K:144:ASP:O	1:K:148:ILE:HG23	2.20	0.42
1:g:66:GLU:OE1	1:g:66:GLU:N	2.51	0.42
1:g:69:LYS:O	1:g:73:GLU:HG3	2.20	0.42
1:3:171:ARG:NH1	1:3:177:GLU:OE2	2.53	0.42
1:M:144:ASP:O	1:M:148:ILE:HG23	2.20	0.42
1:M:155:LEU:HD23	1:M:155:LEU:HA	1.87	0.42
1:X:144:ASP:O	1:X:148:ILE:HG23	2.20	0.42
1:X:175:GLU:HB2	1:X:177:GLU:OE1	2.19	0.42
1:X:182:LEU:HD12	1:X:182:LEU:H	1.85	0.42
1:i:39:LEU:HB3	1:i:45:ILE:HG12	2.02	0.42
1:i:69:LYS:O	1:i:73:GLU:HG3	2.20	0.42
1:i:182:LEU:HD12	1:i:182:LEU:H	1.85	0.42
1:t:66:GLU:OE1	1:t:66:GLU:N	2.51	0.42
1:t:144:ASP:O	1:t:148:ILE:HG23	2.20	0.42
1:N:66:GLU:OE1	1:N:66:GLU:N	2.51	0.42
1:j:144:ASP:O	1:j:148:ILE:HG23	2.20	0.42
1:u:144:ASP:O	1:u:148:ILE:HG23	2.20	0.42
1:v:69:LYS:O	1:v:73:GLU:HG3	2.20	0.42
1:v:177:GLU:HB3	1:v:178:PRO:CD	2.49	0.42
1:6:69:LYS:O	1:6:73:GLU:HG3	2.20	0.42
1:a:39:LEU:HB3	1:a:45:ILE:HG12	2.02	0.42
1:l:98:GLU:O	1:l:101:LYS:HB2	2.20	0.42
1:l:182:LEU:HD12	1:l:182:LEU:H	1.85	0.42
1:w:39:LEU:HB3	1:w:45:ILE:HG12	2.02	0.42
1:7:39:LEU:HB3	1:7:45:ILE:HG12	2.02	0.42
1:D:39:LEU:HB3	1:D:45:ILE:HG12	2.02	0.42
1:Q:98:GLU:O	1:Q:101:LYS:HB2	2.20	0.42
1:b:98:GLU:O	1:b:101:LYS:HB2	2.20	0.42
1:m:69:LYS:O	1:m:73:GLU:HG3	2.20	0.42
1:G:39:LEU:HB3	1:G:45:ILE:HG12	2.02	0.42
1:G:57:LEU:HD12	1:G:57:LEU:HA	1.82	0.42
1:G:177:GLU:HB3	1:G:178:PRO:CD	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:39:LEU:HB3	1:H:45:ILE:HG12	2.02	0.42
1:S:39:LEU:HB3	1:S:45:ILE:HG12	2.02	0.42
1:S:202:ARG:NE	1:S:202:ARG:HA	2.34	0.42
1:d:98:GLU:O	1:d:101:LYS:HB2	2.20	0.42
1:o:39:LEU:HB3	1:o:45:ILE:HG12	2.02	0.42
1:T:179:LEU:O	1:T:180:LEU:C	2.62	0.42
1:e:98:GLU:O	1:e:101:LYS:HB2	2.20	0.42
1:p:32:LEU:HD12	1:p:32:LEU:HA	1.76	0.42
1:p:39:LEU:HB3	1:p:45:ILE:HG12	2.02	0.42
1:p:98:GLU:O	1:p:101:LYS:HB2	2.20	0.42
1:0:69:LYS:O	1:0:73:GLU:HG3	2.20	0.42
1:J:231:GLU:HG3	1:1:226:PHE:CE1	2.54	0.42
1:U:8:LYS:H	1:U:8:LYS:HG2	1.61	0.42
1:U:155:LEU:HD23	1:U:155:LEU:HA	1.87	0.42
1:1:98:GLU:O	1:1:101:LYS:HB2	2.20	0.42
1:1:178:PRO:HG2	1:1:181:ASP:HB3	2.02	0.42
1:K:69:LYS:O	1:K:73:GLU:HG3	2.20	0.42
1:r:39:LEU:HB3	1:r:45:ILE:HG12	2.02	0.42
1:r:69:LYS:O	1:r:73:GLU:HG3	2.20	0.42
1:W:98:GLU:O	1:W:101:LYS:HB2	2.20	0.42
1:h:39:LEU:HB3	1:h:45:ILE:HG12	2.02	0.42
1:3:177:GLU:OE1	1:3:177:GLU:N	2.51	0.42
1:M:66:GLU:OE1	1:M:66:GLU:N	2.51	0.42
1:X:66:GLU:OE1	1:X:66:GLU:N	2.51	0.42
1:i:98:GLU:O	1:i:101:LYS:HB2	2.20	0.42
1:4:69:LYS:O	1:4:73:GLU:HG3	2.20	0.42
1:N:144:ASP:O	1:N:148:ILE:HG23	2.20	0.42
1:Y:98:GLU:O	1:Y:101:LYS:HB2	2.20	0.42
1:j:178:PRO:HG2	1:j:181:ASP:HB3	2.02	0.42
1:u:182:LEU:HD12	1:u:182:LEU:H	1.85	0.42
1:5:39:LEU:HB3	1:5:45:ILE:HG12	2.02	0.42
1:5:69:LYS:O	1:5:73:GLU:HG3	2.20	0.42
1:5:98:GLU:O	1:5:101:LYS:HB2	2.20	0.42
1:5:171:ARG:NH1	1:5:177:GLU:OE2	2.51	0.42
1:6:98:GLU:O	1:6:101:LYS:HB2	2.20	0.42
1:7:178:PRO:HG2	1:7:181:ASP:HB3	2.02	0.42
1:A:177:GLU:HB2	1:A:182:LEU:HD11	2.01	0.42
1:B:98:GLU:O	1:B:101:LYS:HB2	2.20	0.42
1:C:177:GLU:HB3	1:C:178:PRO:CD	2.48	0.42
1:C:182:LEU:HD12	1:C:182:LEU:H	1.85	0.42
1:D:66:GLU:OE1	1:D:66:GLU:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:69:LYS:O	1:E:73:GLU:HG3	2.20	0.42
1:F:231:GLU:HG3	1:x:226:PHE:CE1	2.54	0.42
1:m:8:LYS:H	1:m:8:LYS:HG2	1.61	0.42
1:x:32:LEU:HD12	1:x:32:LEU:HA	1.76	0.42
1:R:98:GLU:O	1:R:101:LYS:HB2	2.20	0.42
1:c:175:GLU:HB2	1:c:177:GLU:OE1	2.19	0.42
1:y:39:LEU:HB3	1:y:45:ILE:HG12	2.02	0.42
1:H:177:GLU:HB2	1:H:182:LEU:HD11	2.01	0.42
1:S:69:LYS:O	1:S:73:GLU:HG3	2.20	0.42
1:S:178:PRO:HG2	1:S:181:ASP:HB3	2.02	0.42
1:o:98:GLU:O	1:o:101:LYS:HB2	2.20	0.42
1:z:32:LEU:HD12	1:z:32:LEU:HA	1.76	0.42
1:z:144:ASP:O	1:z:148:ILE:HG23	2.20	0.42
1:0:39:LEU:HB3	1:0:45:ILE:HG12	2.02	0.42
1:J:66:GLU:OE1	1:J:66:GLU:N	2.51	0.42
1:U:32:LEU:HD12	1:U:32:LEU:HA	1.76	0.42
1:f:69:LYS:O	1:f:73:GLU:HG3	2.20	0.42
1:V:39:LEU:HB3	1:V:45:ILE:HG12	2.02	0.42
1:V:69:LYS:O	1:V:73:GLU:HG3	2.20	0.42
1:g:144:ASP:O	1:g:148:ILE:HG23	2.20	0.42
1:r:177:GLU:HB2	1:r:182:LEU:HD11	2.01	0.42
1:2:98:GLU:O	1:2:101:LYS:HB2	2.20	0.42
1:W:144:ASP:O	1:W:148:ILE:HG23	2.20	0.42
1:s:39:LEU:HB3	1:s:45:ILE:HG12	2.02	0.42
1:s:69:LYS:O	1:s:73:GLU:HG3	2.20	0.42
1:i:171:ARG:NH1	1:i:177:GLU:OE2	2.51	0.42
1:u:66:GLU:OE1	1:u:66:GLU:N	2.51	0.42
1:u:178:PRO:HG2	1:u:181:ASP:HB3	2.00	0.42
1:5:182:LEU:HD12	1:5:182:LEU:H	1.85	0.42
1:k:39:LEU:HB3	1:k:45:ILE:HG12	2.02	0.42
1:k:182:LEU:HD12	1:k:182:LEU:H	1.85	0.42
1:6:66:GLU:OE1	1:6:66:GLU:N	2.51	0.42
1:l:32:LEU:HD12	1:l:32:LEU:HA	1.76	0.42
1:l:144:ASP:O	1:l:148:ILE:HG23	2.20	0.42
1:w:98:GLU:O	1:w:101:LYS:HB2	2.20	0.42
1:A:39:LEU:HB3	1:A:45:ILE:HG12	2.02	0.41
1:A:66:GLU:OE1	1:A:66:GLU:N	2.51	0.41
1:D:69:LYS:O	1:D:73:GLU:HG3	2.20	0.41
1:E:144:ASP:O	1:E:148:ILE:HG23	2.20	0.41
1:b:182:LEU:HD12	1:b:182:LEU:H	1.85	0.41
1:G:98:GLU:O	1:G:101:LYS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:69:LYS:O	1:y:73:GLU:HG3	2.20	0.41
1:y:182:LEU:HD12	1:y:182:LEU:H	1.85	0.41
1:S:144:ASP:O	1:S:148:ILE:HG23	2.20	0.41
1:d:202:ARG:NE	1:d:202:ARG:HA	2.35	0.41
1:I:179:LEU:O	1:I:180:LEU:C	2.63	0.41
1:e:144:ASP:O	1:e:148:ILE:HG23	2.20	0.41
1:0:144:ASP:O	1:0:148:ILE:HG23	2.20	0.41
1:U:171:ARG:NH1	1:U:177:GLU:OE2	2.51	0.41
1:U:177:GLU:OE1	1:U:177:GLU:N	2.50	0.41
1:1:182:LEU:HD12	1:1:182:LEU:H	1.85	0.41
1:K:182:LEU:HD12	1:K:182:LEU:H	1.85	0.41
1:r:66:GLU:OE1	1:r:66:GLU:N	2.51	0.41
1:L:98:GLU:O	1:L:101:LYS:HB2	2.20	0.41
1:L:182:LEU:HD12	1:L:182:LEU:H	1.85	0.41
1:h:182:LEU:HD12	1:h:182:LEU:H	1.85	0.41
1:Y:182:LEU:HD12	1:Y:182:LEU:H	1.85	0.41
1:j:66:GLU:OE1	1:j:66:GLU:N	2.51	0.41
1:v:93:GLU:HA	1:v:101:LYS:HZ2	1.85	0.41
1:6:144:ASP:O	1:6:148:ILE:HG23	2.20	0.41
1:a:98:GLU:O	1:a:101:LYS:HB2	2.20	0.41
1:w:144:ASP:O	1:w:148:ILE:HG23	2.20	0.41
1:7:69:LYS:O	1:7:73:GLU:HG3	2.20	0.41
1:7:98:GLU:O	1:7:101:LYS:HB2	2.20	0.41
1:7:182:LEU:HD12	1:7:182:LEU:H	1.85	0.41
1:B:178:PRO:HG2	1:B:181:ASP:HB3	2.02	0.41
1:F:69:LYS:O	1:F:73:GLU:HG3	2.20	0.41
1:b:175:GLU:HB2	1:b:177:GLU:OE1	2.20	0.41
1:m:39:LEU:HB3	1:m:45:ILE:HG12	2.02	0.41
1:R:144:ASP:O	1:R:148:ILE:HG23	2.20	0.41
1:H:144:ASP:O	1:H:148:ILE:HG23	2.20	0.41
1:S:98:GLU:O	1:S:101:LYS:HB2	2.20	0.41
1:S:182:LEU:HD12	1:S:182:LEU:H	1.85	0.41
1:d:39:LEU:HB3	1:d:45:ILE:HG12	2.02	0.41
1:o:69:LYS:O	1:o:73:GLU:HG3	2.20	0.41
1:p:178:PRO:HG2	1:p:181:ASP:HB3	2.01	0.41
1:0:178:PRO:HG2	1:0:181:ASP:CB	2.51	0.41
1:K:177:GLU:HB3	1:K:178:PRO:CD	2.49	0.41
1:V:66:GLU:OE1	1:V:66:GLU:N	2.51	0.41
1:V:171:ARG:NH1	1:V:177:GLU:OE2	2.53	0.41
1:g:57:LEU:HD12	1:g:57:LEU:HA	1.82	0.41
1:r:226:PHE:HZ	1:2:231:GLU:HG3	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:98:GLU:O	1:h:101:LYS:HB2	2.20	0.41
1:s:98:GLU:O	1:s:101:LYS:HB2	2.20	0.41
1:s:144:ASP:O	1:s:148:ILE:HG23	2.20	0.41
1:M:39:LEU:HB3	1:M:45:ILE:HG12	2.02	0.41
1:i:144:ASP:O	1:i:148:ILE:HG23	2.20	0.41
1:4:182:LEU:HD12	1:4:182:LEU:H	1.85	0.41
1:j:202:ARG:NE	1:j:202:ARG:HA	2.35	0.41
1:O:175:GLU:HB2	1:O:177:GLU:OE1	2.19	0.41
1:k:69:LYS:O	1:k:73:GLU:HG3	2.20	0.41
1:v:98:GLU:O	1:v:101:LYS:HB2	2.20	0.41
1:v:182:LEU:HD12	1:v:182:LEU:H	1.85	0.41
1:v:226:PHE:CZ	1:6:231:GLU:CG	3.01	0.41
1:P:39:LEU:HB3	1:P:45:ILE:HG12	2.02	0.41
1:a:69:LYS:O	1:a:73:GLU:HG3	2.20	0.41
1:a:175:GLU:HB2	1:a:177:GLU:OE1	2.21	0.41
1:a:178:PRO:HG2	1:a:181:ASP:HB3	2.02	0.41
1:B:144:ASP:O	1:B:148:ILE:HG23	2.20	0.41
1:C:39:LEU:HB3	1:C:45:ILE:HG12	2.02	0.41
1:D:98:GLU:O	1:D:101:LYS:HB2	2.20	0.41
1:D:144:ASP:O	1:D:148:ILE:HG23	2.20	0.41
1:E:57:LEU:HD12	1:E:57:LEU:HA	1.82	0.41
1:Q:39:LEU:HB3	1:Q:45:ILE:HG12	2.02	0.41
1:Q:182:LEU:HD12	1:Q:182:LEU:H	1.85	0.41
1:b:39:LEU:HB3	1:b:45:ILE:HG12	2.02	0.41
1:b:144:ASP:O	1:b:148:ILE:HG23	2.20	0.41
1:R:32:LEU:HD12	1:R:32:LEU:HA	1.76	0.41
1:n:57:LEU:HD12	1:n:57:LEU:HA	1.82	0.41
1:o:178:PRO:HG2	1:o:181:ASP:HB3	2.02	0.41
1:T:98:GLU:O	1:T:101:LYS:HB2	2.20	0.41
1:T:182:LEU:HD12	1:T:182:LEU:H	1.85	0.41
1:U:182:LEU:HD12	1:U:182:LEU:H	1.85	0.41
1:1:32:LEU:HD12	1:1:32:LEU:HA	1.76	0.41
1:1:69:LYS:O	1:1:73:GLU:HG3	2.20	0.41
1:K:57:LEU:HA	1:K:57:LEU:HD12	1.82	0.41
1:K:231:GLU:HG3	1:2:226:PHE:CE1	2.54	0.41
1:2:178:PRO:HG2	1:2:181:ASP:HB3	2.02	0.41
1:L:144:ASP:O	1:L:148:ILE:HG23	2.20	0.41
1:M:69:LYS:O	1:M:73:GLU:HG3	2.20	0.41
1:M:98:GLU:O	1:M:101:LYS:HB2	2.20	0.41
1:j:39:LEU:HB3	1:j:45:ILE:HG12	2.02	0.41
1:j:69:LYS:O	1:j:73:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:98:GLU:O	1:u:101:LYS:HB2	2.20	0.41
1:5:144:ASP:O	1:5:148:ILE:HG23	2.20	0.41
1:Z:57:LEU:HD12	1:Z:57:LEU:HA	1.82	0.41
1:Z:98:GLU:O	1:Z:101:LYS:HB2	2.20	0.41
1:Z:230:ARG:HD3	1:k:231:GLU:OE2	2.20	0.41
1:P:202:ARG:HA	1:P:202:ARG:NE	2.35	0.41
1:P:231:GLU:HG3	1:7:226:PHE:CE1	2.54	0.41
1:7:144:ASP:O	1:7:148:ILE:HG23	2.20	0.41
1:A:98:GLU:O	1:A:101:LYS:HB2	2.20	0.41
1:b:69:LYS:O	1:b:73:GLU:HG3	2.20	0.41
1:b:178:PRO:HG2	1:b:181:ASP:HB3	2.02	0.41
1:x:182:LEU:HD12	1:x:182:LEU:H	1.85	0.41
1:G:182:LEU:HD12	1:G:182:LEU:H	1.85	0.41
1:n:98:GLU:O	1:n:101:LYS:HB2	2.20	0.41
1:y:178:PRO:HG2	1:y:181:ASP:HB3	2.02	0.41
1:o:32:LEU:HD12	1:o:32:LEU:HA	1.76	0.41
1:T:39:LEU:HB3	1:T:45:ILE:HG12	2.02	0.41
1:T:144:ASP:O	1:T:148:ILE:HG23	2.20	0.41
1:J:39:LEU:HB3	1:J:45:ILE:HG12	2.02	0.41
1:q:182:LEU:HD12	1:q:182:LEU:H	1.85	0.41
1:1:39:LEU:HB3	1:1:45:ILE:HG12	2.02	0.41
1:2:144:ASP:O	1:2:148:ILE:HG23	2.20	0.41
1:t:182:LEU:HD12	1:t:182:LEU:H	1.85	0.41
1:j:98:GLU:O	1:j:101:LYS:HB2	2.20	0.41
1:u:175:GLU:HB2	1:u:177:GLU:OE1	2.20	0.41
1:5:177:GLU:HB2	1:5:182:LEU:HD11	2.01	0.41
1:Z:144:ASP:O	1:Z:148:ILE:HG23	2.20	0.41
1:w:32:LEU:HD12	1:w:32:LEU:HA	1.76	0.41
1:B:39:LEU:HB3	1:B:45:ILE:HG12	2.02	0.41
1:x:39:LEU:HB3	1:x:45:ILE:HG12	2.02	0.41
1:x:98:GLU:O	1:x:101:LYS:HB2	2.20	0.41
1:c:39:LEU:HB3	1:c:45:ILE:HG12	2.02	0.41
1:n:144:ASP:O	1:n:148:ILE:HG23	2.20	0.41
1:H:69:LYS:O	1:H:73:GLU:HG3	2.20	0.41
1:o:175:GLU:HB2	1:o:177:GLU:OE1	2.21	0.41
1:p:182:LEU:HD12	1:p:182:LEU:H	1.85	0.41
1:0:98:GLU:O	1:0:101:LYS:HB2	2.20	0.41
1:U:39:LEU:HB3	1:U:45:ILE:HG12	2.02	0.41
1:1:144:ASP:O	1:1:148:ILE:HG23	2.20	0.41
1:K:39:LEU:HB3	1:K:45:ILE:HG12	2.02	0.41
1:K:98:GLU:O	1:K:101:LYS:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:98:GLU:O	1:V:101:LYS:HB2	2.20	0.41
1:V:144:ASP:O	1:V:148:ILE:HG23	2.20	0.41
1:L:39:LEU:HB3	1:L:45:ILE:HG12	2.02	0.41
1:3:39:LEU:HB3	1:3:45:ILE:HG12	2.02	0.41
1:3:182:LEU:HD12	1:3:182:LEU:H	1.85	0.41
1:M:171:ARG:NH1	1:M:177:GLU:OE2	2.53	0.41
1:X:69:LYS:O	1:X:73:GLU:HG3	2.20	0.41
1:X:98:GLU:O	1:X:101:LYS:HB2	2.20	0.41
1:t:32:LEU:HD12	1:t:32:LEU:HA	1.76	0.41
1:N:182:LEU:HD12	1:N:182:LEU:H	1.85	0.41
1:u:69:LYS:O	1:u:73:GLU:HG3	2.20	0.41
1:O:39:LEU:HB3	1:O:45:ILE:HG12	2.02	0.41
1:O:98:GLU:O	1:O:101:LYS:HB2	2.20	0.41
1:w:69:LYS:O	1:w:73:GLU:HG3	2.20	0.41
1:C:98:GLU:O	1:C:101:LYS:HB2	2.20	0.41
1:C:202:ARG:NE	1:C:202:ARG:HA	2.35	0.41
1:F:11:LYS:O	1:F:15:LEU:HG	2.21	0.41
1:G:231:GLU:HG3	1:y:226:PHE:CE1	2.54	0.41
1:R:171:ARG:NH1	1:R:177:GLU:OE2	2.53	0.41
1:y:98:GLU:O	1:y:101:LYS:HB2	2.20	0.41
1:H:202:ARG:NE	1:H:202:ARG:HA	2.36	0.41
1:d:69:LYS:O	1:d:73:GLU:HG3	2.20	0.41
1:z:69:LYS:O	1:z:73:GLU:HG3	2.20	0.41
1:I:39:LEU:HB3	1:I:45:ILE:HG12	2.02	0.41
1:I:231:GLU:HG3	1:0:226:PHE:CE1	2.54	0.41
1:e:182:LEU:HD12	1:e:182:LEU:H	1.85	0.41
1:p:144:ASP:O	1:p:148:ILE:HG23	2.20	0.41
1:0:11:LYS:O	1:0:15:LEU:HG	2.21	0.41
1:J:202:ARG:NE	1:J:202:ARG:HA	2.35	0.41
1:U:98:GLU:O	1:U:101:LYS:HB2	2.20	0.41
1:q:39:LEU:HB3	1:q:45:ILE:HG12	2.02	0.41
1:r:98:GLU:O	1:r:101:LYS:HB2	2.20	0.41
1:2:39:LEU:HB3	1:2:45:ILE:HG12	2.02	0.41
1:L:11:LYS:O	1:L:15:LEU:HG	2.21	0.41
1:W:182:LEU:HD12	1:W:182:LEU:H	1.85	0.41
1:h:32:LEU:HD12	1:h:32:LEU:HA	1.76	0.41
1:j:177:GLU:OE1	1:j:177:GLU:N	2.51	0.41
1:u:8:LYS:H	1:u:8:LYS:HG2	1.61	0.41
1:6:32:LEU:HD12	1:6:32:LEU:HA	1.76	0.41
1:P:179:LEU:O	1:P:180:LEU:C	2.60	0.41
1:l:69:LYS:O	1:l:73:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:182:LEU:HD12	1:B:182:LEU:H	1.85	0.41
1:D:182:LEU:HD12	1:D:182:LEU:H	1.85	0.41
1:m:79:GLY:O	1:m:83:VAL:HG23	2.21	0.41
1:R:156:LYS:HA	1:R:159:LYS:HZ3	1.86	0.41
1:I:182:LEU:HD12	1:I:182:LEU:H	1.85	0.41
1:T:11:LYS:O	1:T:15:LEU:HG	2.21	0.41
1:J:182:LEU:HD12	1:J:182:LEU:H	1.85	0.41
1:U:177:GLU:HB2	1:U:182:LEU:HD11	2.01	0.41
1:f:11:LYS:O	1:f:15:LEU:HG	2.21	0.41
1:f:57:LEU:HD12	1:f:57:LEU:HA	1.82	0.41
1:L:69:LYS:O	1:L:73:GLU:HG3	2.20	0.41
1:W:11:LYS:O	1:W:15:LEU:HG	2.21	0.41
1:s:11:LYS:O	1:s:15:LEU:HG	2.21	0.41
1:M:202:ARG:NE	1:M:202:ARG:HA	2.35	0.41
1:4:11:LYS:O	1:4:15:LEU:HG	2.21	0.41
1:Y:11:LYS:O	1:Y:15:LEU:HG	2.21	0.41
1:Y:179:LEU:O	1:Y:180:LEU:C	2.60	0.41
1:j:171:ARG:NH1	1:j:177:GLU:OE2	2.53	0.41
1:5:11:LYS:O	1:5:15:LEU:HG	2.21	0.41
1:w:226:PHE:HZ	1:7:231:GLU:HG3	1.81	0.41
1:B:9:LEU:HD22	1:B:50:PHE:CD2	2.56	0.41
1:B:26:PRO:HB2	1:B:28:GLU:OE1	2.21	0.41
1:B:79:GLY:O	1:B:83:VAL:HG23	2.21	0.41
1:E:156:LYS:HA	1:E:159:LYS:HZ3	1.86	0.41
1:E:182:LEU:HD12	1:E:182:LEU:H	1.85	0.41
1:F:79:GLY:O	1:F:83:VAL:HG23	2.21	0.41
1:m:11:LYS:O	1:m:15:LEU:HG	2.21	0.41
1:x:79:GLY:O	1:x:83:VAL:HG23	2.21	0.41
1:R:39:LEU:HB3	1:R:45:ILE:HG12	2.02	0.41
1:R:175:GLU:HB2	1:R:177:GLU:OE1	2.20	0.41
1:c:98:GLU:O	1:c:101:LYS:HB2	2.20	0.41
1:n:26:PRO:HB2	1:n:28:GLU:OE1	2.21	0.41
1:n:226:PHE:HZ	1:y:231:GLU:HG3	1.81	0.41
1:T:69:LYS:O	1:T:73:GLU:HG3	2.20	0.41
1:J:11:LYS:O	1:J:15:LEU:HG	2.21	0.41
1:J:79:GLY:O	1:J:83:VAL:HG23	2.21	0.41
1:U:79:GLY:O	1:U:83:VAL:HG23	2.21	0.41
1:f:79:GLY:O	1:f:83:VAL:HG23	2.21	0.41
1:K:9:LEU:HD22	1:K:50:PHE:CD2	2.56	0.41
1:K:202:ARG:HA	1:K:202:ARG:NE	2.35	0.41
1:g:177:GLU:HB3	1:g:182:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:26:PRO:HB2	1:r:28:GLU:OE1	2.21	0.41
1:r:144:ASP:O	1:r:148:ILE:HG23	2.20	0.41
1:2:26:PRO:HB2	1:2:28:GLU:OE1	2.21	0.41
1:2:79:GLY:O	1:2:83:VAL:HG23	2.21	0.41
1:2:182:LEU:HD12	1:2:182:LEU:H	1.85	0.41
1:h:144:ASP:O	1:h:148:ILE:HG23	2.20	0.41
1:X:9:LEU:HD22	1:X:50:PHE:CD2	2.56	0.41
1:X:156:LYS:HA	1:X:159:LYS:HZ3	1.86	0.41
1:X:226:PHE:CZ	1:i:231:GLU:CG	3.03	0.41
1:t:11:LYS:O	1:t:15:LEU:HG	2.21	0.41
1:N:11:LYS:O	1:N:15:LEU:HG	2.21	0.41
1:N:98:GLU:O	1:N:101:LYS:HB2	2.20	0.41
1:Y:230:ARG:HD3	1:j:231:GLU:OE2	2.20	0.41
1:j:175:GLU:HB2	1:j:177:GLU:OE1	2.20	0.41
1:u:26:PRO:HB2	1:u:28:GLU:OE1	2.21	0.41
1:u:156:LYS:HA	1:u:159:LYS:HZ3	1.86	0.41
1:Z:26:PRO:HB2	1:Z:28:GLU:OE1	2.21	0.41
1:k:8:LYS:H	1:k:8:LYS:HG2	1.61	0.41
1:6:156:LYS:HA	1:6:159:LYS:HZ3	1.86	0.41
1:P:9:LEU:HD22	1:P:50:PHE:CD2	2.56	0.41
1:P:69:LYS:O	1:P:73:GLU:HG3	2.20	0.41
1:P:144:ASP:O	1:P:148:ILE:HG23	2.20	0.41
1:l:177:GLU:HB3	1:l:182:LEU:HD11	2.03	0.41
1:A:9:LEU:HD22	1:A:50:PHE:CD2	2.56	0.41
1:A:26:PRO:HB2	1:A:28:GLU:OE1	2.21	0.41
1:A:144:ASP:O	1:A:148:ILE:HG23	2.20	0.41
1:A:145:GLU:O	1:A:148:ILE:HG12	2.21	0.41
1:A:182:LEU:HD12	1:A:182:LEU:H	1.85	0.41
1:A:202:ARG:NE	1:A:202:ARG:HA	2.36	0.41
1:C:9:LEU:HD22	1:C:50:PHE:CD2	2.56	0.41
1:C:26:PRO:HB2	1:C:28:GLU:OE1	2.21	0.41
1:C:57:LEU:HA	1:C:57:LEU:HD12	1.82	0.41
1:E:11:LYS:O	1:E:15:LEU:HG	2.21	0.41
1:E:32:LEU:HD12	1:E:32:LEU:HA	1.76	0.41
1:E:39:LEU:HB3	1:E:45:ILE:HG12	2.02	0.41
1:F:39:LEU:HB3	1:F:45:ILE:HG12	2.02	0.41
1:Q:177:GLU:HB3	1:Q:178:PRO:CD	2.49	0.41
1:b:11:LYS:O	1:b:15:LEU:HG	2.21	0.41
1:m:182:LEU:HD12	1:m:182:LEU:H	1.85	0.41
1:G:79:GLY:O	1:G:83:VAL:HG23	2.21	0.41
1:G:202:ARG:NE	1:G:202:ARG:HA	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:26:PRO:HB2	1:R:28:GLU:OE1	2.21	0.41
1:R:178:PRO:HG2	1:R:181:ASP:HB3	2.02	0.41
1:n:39:LEU:HB3	1:n:45:ILE:HG12	2.02	0.41
1:n:66:GLU:OE1	1:n:66:GLU:N	2.51	0.41
1:n:69:LYS:O	1:n:73:GLU:HG3	2.20	0.41
1:y:79:GLY:O	1:y:83:VAL:HG23	2.21	0.41
1:H:9:LEU:HD22	1:H:50:PHE:CD2	2.56	0.41
1:H:11:LYS:O	1:H:15:LEU:HG	2.21	0.41
1:H:182:LEU:HD12	1:H:182:LEU:H	1.85	0.41
1:S:79:GLY:O	1:S:83:VAL:HG23	2.21	0.41
1:d:9:LEU:HD22	1:d:50:PHE:CD2	2.56	0.41
1:d:11:LYS:O	1:d:15:LEU:HG	2.21	0.41
1:d:144:ASP:O	1:d:148:ILE:HG23	2.20	0.41
1:d:179:LEU:O	1:d:180:LEU:C	2.61	0.41
1:o:26:PRO:HB2	1:o:28:GLU:OE1	2.21	0.41
1:z:9:LEU:HD22	1:z:50:PHE:CD2	2.56	0.41
1:z:39:LEU:HB3	1:z:45:ILE:HG12	2.02	0.41
1:I:11:LYS:O	1:I:15:LEU:HG	2.21	0.41
1:I:26:PRO:HB2	1:I:28:GLU:OE1	2.21	0.41
1:e:11:LYS:O	1:e:15:LEU:HG	2.21	0.41
1:e:39:LEU:HB3	1:e:45:ILE:HG12	2.02	0.41
1:p:145:GLU:O	1:p:148:ILE:HG12	2.21	0.41
1:0:9:LEU:HD22	1:0:50:PHE:CD2	2.56	0.41
1:U:230:ARG:HD3	1:f:231:GLU:OE2	2.20	0.41
1:f:39:LEU:HB3	1:f:45:ILE:HG12	2.02	0.41
1:1:11:LYS:O	1:1:15:LEU:HG	2.21	0.41
1:1:79:GLY:O	1:1:83:VAL:HG23	2.21	0.41
1:K:26:PRO:HB2	1:K:28:GLU:OE1	2.21	0.41
1:K:178:PRO:HG2	1:K:181:ASP:CB	2.51	0.41
1:K:231:GLU:OE2	1:2:230:ARG:HD3	2.21	0.41
1:V:9:LEU:HD22	1:V:50:PHE:CD2	2.56	0.41
1:V:182:LEU:HD12	1:V:182:LEU:H	1.85	0.41
1:g:26:PRO:HB2	1:g:28:GLU:OE1	2.21	0.41
1:g:32:LEU:HD12	1:g:32:LEU:HA	1.76	0.41
1:g:39:LEU:HB3	1:g:45:ILE:HG12	2.02	0.41
1:g:182:LEU:HD12	1:g:182:LEU:H	1.85	0.41
1:r:9:LEU:HD22	1:r:50:PHE:CD2	2.56	0.41
1:2:9:LEU:HD22	1:2:50:PHE:CD2	2.56	0.41
1:2:11:LYS:O	1:2:15:LEU:HG	2.21	0.41
1:L:79:GLY:O	1:L:83:VAL:HG23	2.21	0.41
1:W:69:LYS:O	1:W:73:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:69:LYS:O	1:h:73:GLU:HG3	2.20	0.41
1:h:145:GLU:O	1:h:148:ILE:HG12	2.21	0.41
1:3:11:LYS:O	1:3:15:LEU:HG	2.21	0.41
1:3:26:PRO:HB2	1:3:28:GLU:OE1	2.21	0.41
1:3:178:PRO:HG2	1:3:181:ASP:HB3	2.02	0.41
1:M:9:LEU:HD22	1:M:50:PHE:CD2	2.56	0.41
1:M:182:LEU:HD12	1:M:182:LEU:H	1.85	0.41
1:X:8:LYS:H	1:X:8:LYS:HG2	1.61	0.41
1:X:11:LYS:O	1:X:15:LEU:HG	2.21	0.41
1:X:26:PRO:HB2	1:X:28:GLU:OE1	2.21	0.41
1:i:11:LYS:O	1:i:15:LEU:HG	2.21	0.41
1:i:26:PRO:HB2	1:i:28:GLU:OE1	2.21	0.41
1:t:9:LEU:HD22	1:t:50:PHE:CD2	2.56	0.41
1:t:69:LYS:O	1:t:73:GLU:HG3	2.20	0.41
1:t:79:GLY:O	1:t:83:VAL:HG23	2.21	0.41
1:t:98:GLU:O	1:t:101:LYS:HB2	2.20	0.41
1:t:226:PHE:HZ	1:4:231:GLU:HG3	1.81	0.41
1:4:66:GLU:OE1	1:4:66:GLU:N	2.51	0.41
1:N:9:LEU:HD22	1:N:50:PHE:CD2	2.56	0.41
1:N:57:LEU:HD12	1:N:57:LEU:HA	1.82	0.41
1:N:69:LYS:O	1:N:73:GLU:HG3	2.20	0.41
1:N:79:GLY:O	1:N:83:VAL:HG23	2.21	0.41
1:Y:66:GLU:OE1	1:Y:66:GLU:N	2.51	0.41
1:Y:144:ASP:O	1:Y:148:ILE:HG23	2.20	0.41
1:u:9:LEU:HD22	1:u:50:PHE:CD2	2.56	0.41
1:u:11:LYS:O	1:u:15:LEU:HG	2.21	0.41
1:O:182:LEU:HD12	1:O:182:LEU:H	1.85	0.41
1:Z:66:GLU:OE1	1:Z:66:GLU:N	2.51	0.41
1:Z:69:LYS:O	1:Z:73:GLU:HG3	2.20	0.41
1:Z:79:GLY:O	1:Z:83:VAL:HG23	2.21	0.41
1:k:79:GLY:O	1:k:83:VAL:HG23	2.21	0.41
1:k:98:GLU:O	1:k:101:LYS:HB2	2.20	0.41
1:k:145:GLU:O	1:k:148:ILE:HG12	2.21	0.41
1:v:79:GLY:O	1:v:83:VAL:HG23	2.21	0.41
1:v:155:LEU:HA	1:v:155:LEU:HD23	1.87	0.41
1:6:26:PRO:HB2	1:6:28:GLU:OE1	2.21	0.41
1:P:11:LYS:O	1:P:15:LEU:HG	2.21	0.41
1:a:26:PRO:HB2	1:a:28:GLU:OE1	2.21	0.41
1:a:32:LEU:HD12	1:a:32:LEU:HA	1.76	0.41
1:a:144:ASP:O	1:a:148:ILE:HG23	2.20	0.41
1:l:79:GLY:O	1:l:83:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:155:LEU:HD23	1:l:155:LEU:HA	1.86	0.41
1:w:9:LEU:HD22	1:w:50:PHE:CD2	2.56	0.41
1:w:11:LYS:O	1:w:15:LEU:HG	2.21	0.41
1:w:200:ASP:OD2	1:w:200:ASP:N	2.49	0.41
1:w:202:ARG:NE	1:w:202:ARG:HA	2.36	0.41
1:7:79:GLY:O	1:7:83:VAL:HG23	2.21	0.41
1:D:9:LEU:HD22	1:D:50:PHE:CD2	2.56	0.41
1:E:26:PRO:HB2	1:E:28:GLU:OE1	2.21	0.41
1:Q:79:GLY:O	1:Q:83:VAL:HG23	2.21	0.41
1:Q:226:PHE:HZ	1:b:231:GLU:HG3	1.84	0.41
1:b:79:GLY:O	1:b:83:VAL:HG23	2.21	0.41
1:m:145:GLU:O	1:m:148:ILE:HG12	2.21	0.41
1:G:145:GLU:O	1:G:148:ILE:HG12	2.21	0.41
1:G:231:GLU:OE2	1:y:230:ARG:HD3	2.21	0.41
1:c:26:PRO:HB2	1:c:28:GLU:OE1	2.21	0.41
1:c:69:LYS:O	1:c:73:GLU:HG3	2.20	0.41
1:c:182:LEU:HD12	1:c:182:LEU:H	1.85	0.41
1:n:11:LYS:O	1:n:15:LEU:HG	2.21	0.41
1:n:79:GLY:O	1:n:83:VAL:HG23	2.21	0.41
1:y:9:LEU:HD22	1:y:50:PHE:CD2	2.56	0.41
1:y:145:GLU:O	1:y:148:ILE:HG12	2.21	0.41
1:H:26:PRO:HB2	1:H:28:GLU:OE1	2.21	0.41
1:H:145:GLU:O	1:H:148:ILE:HG12	2.21	0.41
1:S:145:GLU:O	1:S:148:ILE:HG12	2.21	0.41
1:o:144:ASP:O	1:o:148:ILE:HG23	2.20	0.41
1:I:144:ASP:O	1:I:148:ILE:HG23	2.20	0.41
1:T:26:PRO:HB2	1:T:28:GLU:OE1	2.21	0.41
1:T:79:GLY:O	1:T:83:VAL:HG23	2.21	0.41
1:e:69:LYS:O	1:e:73:GLU:HG3	2.20	0.41
1:p:9:LEU:HD22	1:p:50:PHE:CD2	2.56	0.41
1:p:26:PRO:HB2	1:p:28:GLU:OE1	2.21	0.41
1:J:144:ASP:O	1:J:148:ILE:HG23	2.20	0.41
1:J:200:ASP:OD2	1:J:200:ASP:N	2.48	0.41
1:q:202:ARG:NE	1:q:202:ARG:HA	2.36	0.41
1:1:175:GLU:HB2	1:1:177:GLU:OE1	2.21	0.41
1:r:182:LEU:HD12	1:r:182:LEU:H	1.85	0.41
1:L:177:GLU:HB3	1:L:182:LEU:HD11	2.03	0.41
1:h:66:GLU:OE1	1:h:66:GLU:N	2.52	0.41
1:s:9:LEU:HD22	1:s:50:PHE:CD2	2.56	0.41
1:M:93:GLU:HA	1:M:101:LYS:HZ2	1.86	0.41
1:X:32:LEU:HA	1:X:32:LEU:HD12	1.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:39:LEU:HB3	1:4:45:ILE:HG12	2.02	0.41
1:4:144:ASP:O	1:4:148:ILE:HG23	2.20	0.41
1:4:202:ARG:HA	1:4:202:ARG:NE	2.36	0.41
1:Y:39:LEU:HB3	1:Y:45:ILE:HG12	2.02	0.41
1:j:9:LEU:HD22	1:j:50:PHE:CD2	2.56	0.41
1:j:182:LEU:HD12	1:j:182:LEU:H	1.85	0.41
1:O:11:LYS:O	1:O:15:LEU:HG	2.21	0.41
1:O:69:LYS:O	1:O:73:GLU:HG3	2.20	0.41
1:Z:11:LYS:O	1:Z:15:LEU:HG	2.21	0.41
1:Z:39:LEU:HB3	1:Z:45:ILE:HG12	2.02	0.41
1:v:145:GLU:O	1:v:148:ILE:HG12	2.21	0.41
1:6:9:LEU:HD22	1:6:50:PHE:CD2	2.56	0.41
1:a:11:LYS:O	1:a:15:LEU:HG	2.21	0.41
1:a:57:LEU:HD12	1:a:57:LEU:HA	1.82	0.41
1:l:9:LEU:HD22	1:l:50:PHE:CD2	2.56	0.41
1:l:39:LEU:HB3	1:l:45:ILE:HG12	2.02	0.41
1:l:145:GLU:O	1:l:148:ILE:HG12	2.21	0.41
1:w:26:PRO:HB2	1:w:28:GLU:OE1	2.21	0.41
1:7:9:LEU:HD22	1:7:50:PHE:CD2	2.56	0.41
1:7:66:GLU:OE1	1:7:66:GLU:N	2.51	0.41
1:7:145:GLU:O	1:7:148:ILE:HG12	2.21	0.41
1:B:11:LYS:O	1:B:15:LEU:HG	2.21	0.40
1:B:69:LYS:O	1:B:73:GLU:HG3	2.20	0.40
1:Q:145:GLU:O	1:Q:148:ILE:HG12	2.21	0.40
1:b:145:GLU:O	1:b:148:ILE:HG12	2.21	0.40
1:m:144:ASP:O	1:m:148:ILE:HG23	2.20	0.40
1:x:11:LYS:O	1:x:15:LEU:HG	2.21	0.40
1:R:9:LEU:HD22	1:R:50:PHE:CD2	2.56	0.40
1:R:182:LEU:HD12	1:R:182:LEU:H	1.85	0.40
1:n:182:LEU:HD12	1:n:182:LEU:H	1.85	0.40
1:S:9:LEU:HD22	1:S:50:PHE:CD2	2.56	0.40
1:S:26:PRO:HB2	1:S:28:GLU:OE1	2.21	0.40
1:S:66:GLU:OE1	1:S:66:GLU:N	2.51	0.40
1:d:145:GLU:O	1:d:148:ILE:HG12	2.21	0.40
1:o:11:LYS:O	1:o:15:LEU:HG	2.21	0.40
1:o:169:VAL:O	1:o:173:ARG:HG2	2.22	0.40
1:z:79:GLY:O	1:z:83:VAL:HG23	2.21	0.40
1:I:69:LYS:O	1:I:73:GLU:HG3	2.20	0.40
1:I:175:GLU:HB2	1:I:177:GLU:OE1	2.21	0.40
1:T:177:GLU:HB3	1:T:182:LEU:HD11	2.03	0.40
1:e:79:GLY:O	1:e:83:VAL:HG23	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:66:GLU:OE1	1:p:66:GLU:N	2.51	0.40
1:p:69:LYS:O	1:p:73:GLU:HG3	2.20	0.40
1:J:145:GLU:O	1:J:148:ILE:HG12	2.21	0.40
1:q:79:GLY:O	1:q:83:VAL:HG23	2.21	0.40
1:q:177:GLU:HB3	1:q:178:PRO:CD	2.49	0.40
1:g:11:LYS:O	1:g:15:LEU:HG	2.21	0.40
1:r:145:GLU:O	1:r:148:ILE:HG12	2.21	0.40
1:r:202:ARG:NE	1:r:202:ARG:HA	2.36	0.40
1:L:26:PRO:HB2	1:L:28:GLU:OE1	2.21	0.40
1:h:26:PRO:HB2	1:h:28:GLU:OE1	2.21	0.40
1:3:69:LYS:O	1:3:73:GLU:HG3	2.20	0.40
1:t:39:LEU:HB3	1:t:45:ILE:HG12	2.02	0.40
1:N:32:LEU:HD12	1:N:32:LEU:HA	1.76	0.40
1:N:39:LEU:HB3	1:N:45:ILE:HG12	2.02	0.40
1:Y:26:PRO:HB2	1:Y:28:GLU:OE1	2.21	0.40
1:u:79:GLY:O	1:u:83:VAL:HG23	2.21	0.40
1:5:26:PRO:HB2	1:5:28:GLU:OE1	2.21	0.40
1:5:177:GLU:OE1	1:5:177:GLU:N	2.50	0.40
1:O:26:PRO:HB2	1:O:28:GLU:OE1	2.21	0.40
1:O:231:GLU:OE2	1:6:230:ARG:HD3	2.21	0.40
1:Z:182:LEU:HD12	1:Z:182:LEU:H	1.85	0.40
1:v:9:LEU:HD22	1:v:50:PHE:CD2	2.56	0.40
1:6:39:LEU:HB3	1:6:45:ILE:HG12	2.02	0.40
1:P:145:GLU:O	1:P:148:ILE:HG12	2.21	0.40
1:a:202:ARG:NE	1:a:202:ARG:HA	2.35	0.40
1:w:145:GLU:O	1:w:148:ILE:HG12	2.21	0.40
1:w:182:LEU:HD12	1:w:182:LEU:H	1.85	0.40
1:C:178:PRO:HG2	1:C:181:ASP:CB	2.51	0.40
1:D:11:LYS:O	1:D:15:LEU:HG	2.21	0.40
1:F:57:LEU:HD12	1:F:57:LEU:HA	1.82	0.40
1:F:175:GLU:HB2	1:F:177:GLU:OE1	2.22	0.40
1:Q:26:PRO:HB2	1:Q:28:GLU:OE1	2.21	0.40
1:Q:178:PRO:HG2	1:Q:181:ASP:CB	2.51	0.40
1:b:26:PRO:HB2	1:b:28:GLU:OE1	2.21	0.40
1:G:11:LYS:O	1:G:15:LEU:HG	2.21	0.40
1:n:145:GLU:O	1:n:148:ILE:HG12	2.21	0.40
1:o:9:LEU:HD22	1:o:50:PHE:CD2	2.56	0.40
1:z:145:GLU:O	1:z:148:ILE:HG12	2.21	0.40
1:0:182:LEU:HD12	1:0:182:LEU:H	1.85	0.40
1:U:11:LYS:O	1:U:15:LEU:HG	2.21	0.40
1:U:26:PRO:HB2	1:U:28:GLU:OE1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:169:VAL:O	1:U:173:ARG:HG2	2.22	0.40
1:q:145:GLU:O	1:q:148:ILE:HG12	2.21	0.40
1:1:26:PRO:HB2	1:1:28:GLU:OE1	2.21	0.40
1:V:226:PHE:HZ	1:g:231:GLU:HG3	1.84	0.40
1:g:9:LEU:HD22	1:g:50:PHE:CD2	2.56	0.40
1:2:69:LYS:O	1:2:73:GLU:HG3	2.20	0.40
1:2:142:LYS:HA	1:2:142:LYS:HD2	1.89	0.40
1:L:145:GLU:O	1:L:148:ILE:HG12	2.21	0.40
1:W:39:LEU:HB3	1:W:45:ILE:HG12	2.02	0.40
1:W:79:GLY:O	1:W:83:VAL:HG23	2.21	0.40
1:h:9:LEU:HD22	1:h:50:PHE:CD2	2.56	0.40
1:s:182:LEU:HD12	1:s:182:LEU:H	1.85	0.40
1:3:144:ASP:O	1:3:148:ILE:HG23	2.20	0.40
1:X:79:GLY:O	1:X:83:VAL:HG23	2.21	0.40
1:i:145:GLU:O	1:i:148:ILE:HG12	2.21	0.40
1:4:26:PRO:HB2	1:4:28:GLU:OE1	2.21	0.40
1:Y:226:PHE:HZ	1:j:231:GLU:HG3	1.84	0.40
1:j:11:LYS:O	1:j:15:LEU:HG	2.21	0.40
1:5:119:ASN:HD22	1:5:119:ASN:HA	1.78	0.40
1:O:57:LEU:HD12	1:O:57:LEU:HA	1.82	0.40
1:k:9:LEU:HD22	1:k:50:PHE:CD2	2.56	0.40
1:6:171:ARG:NH1	1:6:177:GLU:OE2	2.53	0.40
1:6:182:LEU:HD12	1:6:182:LEU:H	1.85	0.40
1:l:202:ARG:NE	1:l:202:ARG:HA	2.35	0.40
1:w:156:LYS:HA	1:w:159:LYS:HZ3	1.87	0.40
1:A:169:VAL:O	1:A:173:ARG:HG2	2.22	0.40
1:B:169:VAL:O	1:B:173:ARG:HG2	2.22	0.40
1:E:9:LEU:HD22	1:E:50:PHE:CD2	2.56	0.40
1:F:8:LYS:H	1:F:8:LYS:HG2	1.61	0.40
1:x:9:LEU:HD22	1:x:50:PHE:CD2	2.56	0.40
1:x:156:LYS:HA	1:x:159:LYS:HZ3	1.87	0.40
1:x:169:VAL:O	1:x:173:ARG:HG2	2.22	0.40
1:G:9:LEU:HD22	1:G:50:PHE:CD2	2.56	0.40
1:R:145:GLU:O	1:R:148:ILE:HG12	2.22	0.40
1:c:8:LYS:H	1:c:8:LYS:HG2	1.61	0.40
1:c:169:VAL:O	1:c:173:ARG:HG2	2.22	0.40
1:H:32:LEU:HD12	1:H:32:LEU:HA	1.76	0.40
1:S:230:ARG:HD3	1:d:231:GLU:OE2	2.20	0.40
1:o:79:GLY:O	1:o:83:VAL:HG23	2.21	0.40
1:z:26:PRO:HB2	1:z:28:GLU:OE1	2.21	0.40
1:z:169:VAL:O	1:z:173:ARG:HG2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:9:LEU:HD22	1:e:50:PHE:CD2	2.56	0.40
1:0:202:ARG:NE	1:0:202:ARG:HA	2.36	0.40
1:J:230:ARG:HD3	1:U:231:GLU:OE2	2.22	0.40
1:q:26:PRO:HB2	1:q:28:GLU:OE1	2.21	0.40
1:1:145:GLU:O	1:1:148:ILE:HG12	2.21	0.40
1:K:230:ARG:HD3	1:V:231:GLU:OE2	2.22	0.40
1:V:11:LYS:O	1:V:15:LEU:HG	2.21	0.40
1:r:169:VAL:O	1:r:173:ARG:HG2	2.22	0.40
1:2:8:LYS:H	1:2:8:LYS:HG2	1.61	0.40
1:L:9:LEU:HD22	1:L:50:PHE:CD2	2.56	0.40
1:L:230:ARG:HD3	1:W:231:GLU:OE2	2.22	0.40
1:h:11:LYS:O	1:h:15:LEU:HG	2.21	0.40
1:s:26:PRO:HB2	1:s:28:GLU:OE1	2.21	0.40
1:M:11:LYS:O	1:M:15:LEU:HG	2.21	0.40
1:N:26:PRO:HB2	1:N:28:GLU:OE1	2.21	0.40
1:Y:169:VAL:O	1:Y:173:ARG:HG2	2.22	0.40
1:5:145:GLU:O	1:5:148:ILE:HG12	2.21	0.40
1:Z:145:GLU:O	1:Z:148:ILE:HG12	2.21	0.40
1:k:32:LEU:HD12	1:k:32:LEU:HA	1.76	0.40
1:v:11:LYS:O	1:v:15:LEU:HG	2.21	0.40
1:6:145:GLU:O	1:6:148:ILE:HG12	2.21	0.40
1:6:178:PRO:HG2	1:6:181:ASP:HB3	2.03	0.40
1:P:178:PRO:HG2	1:P:181:ASP:CB	2.51	0.40
1:a:169:VAL:O	1:a:173:ARG:HG2	2.22	0.40
1:l:26:PRO:HB2	1:l:28:GLU:OE1	2.21	0.40
1:l:169:VAL:O	1:l:173:ARG:HG2	2.22	0.40
1:D:145:GLU:O	1:D:148:ILE:HG12	2.21	0.40
1:E:79:GLY:O	1:E:83:VAL:HG23	2.21	0.40
1:E:177:GLU:HB3	1:E:182:LEU:HD11	2.04	0.40
1:F:26:PRO:HB2	1:F:28:GLU:OE1	2.21	0.40
1:F:230:ARG:HD3	1:Q:231:GLU:OE2	2.22	0.40
1:m:169:VAL:O	1:m:173:ARG:HG2	2.22	0.40
1:m:177:GLU:HB3	1:m:182:LEU:HD11	2.03	0.40
1:c:11:LYS:O	1:c:15:LEU:HG	2.21	0.40
1:n:9:LEU:HD22	1:n:50:PHE:CD2	2.56	0.40
1:n:169:VAL:O	1:n:173:ARG:HG2	2.22	0.40
1:y:11:LYS:O	1:y:15:LEU:HG	2.21	0.40
1:H:231:GLU:OE2	1:z:230:ARG:HD3	2.21	0.40
1:d:178:PRO:HG2	1:d:181:ASP:CB	2.51	0.40
1:d:182:LEU:HD12	1:d:182:LEU:H	1.85	0.40
1:o:182:LEU:HD12	1:o:182:LEU:H	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:11:LYS:O	1:z:15:LEU:HG	2.21	0.40
1:z:155:LEU:HD23	1:z:155:LEU:HA	1.86	0.40
1:T:9:LEU:HD22	1:T:50:PHE:CD2	2.56	0.40
1:p:11:LYS:O	1:p:15:LEU:HG	2.21	0.40
1:0:26:PRO:HB2	1:0:28:GLU:OE1	2.21	0.40
1:0:145:GLU:O	1:0:148:ILE:HG12	2.21	0.40
1:J:169:VAL:O	1:J:173:ARG:HG2	2.22	0.40
1:U:9:LEU:HD22	1:U:50:PHE:CD2	2.56	0.40
1:f:8:LYS:H	1:f:8:LYS:HG2	1.61	0.40
1:f:175:GLU:HB2	1:f:177:GLU:OE1	2.22	0.40
1:V:145:GLU:O	1:V:148:ILE:HG12	2.22	0.40
1:r:11:LYS:O	1:r:15:LEU:HG	2.21	0.40
1:W:9:LEU:HD22	1:W:50:PHE:CD2	2.56	0.40
1:W:202:ARG:HA	1:W:202:ARG:NE	2.36	0.40
1:s:145:GLU:O	1:s:148:ILE:HG12	2.21	0.40
1:3:175:GLU:HB2	1:3:177:GLU:OE1	2.21	0.40
1:M:79:GLY:O	1:M:83:VAL:HG23	2.21	0.40
1:t:26:PRO:HB2	1:t:28:GLU:OE1	2.21	0.40
1:4:169:VAL:O	1:4:173:ARG:HG2	2.22	0.40
1:u:179:LEU:O	1:u:180:LEU:C	2.64	0.40
1:5:57:LEU:HD12	1:5:57:LEU:HA	1.82	0.40
1:O:79:GLY:O	1:O:83:VAL:HG23	2.21	0.40
1:O:169:VAL:O	1:O:173:ARG:HG2	2.22	0.40
1:Z:9:LEU:HD22	1:Z:50:PHE:CD2	2.56	0.40
1:k:11:LYS:O	1:k:15:LEU:HG	2.21	0.40
1:P:79:GLY:O	1:P:83:VAL:HG23	2.21	0.40
1:P:182:LEU:HD12	1:P:182:LEU:H	1.85	0.40
1:a:9:LEU:HD22	1:a:50:PHE:CD2	2.56	0.40
1:a:79:GLY:O	1:a:83:VAL:HG23	2.21	0.40
1:7:26:PRO:HB2	1:7:28:GLU:OE1	2.21	0.40
1:A:79:GLY:O	1:A:83:VAL:HG23	2.21	0.40
1:B:142:LYS:HA	1:B:142:LYS:HD2	1.89	0.40
1:D:175:GLU:HB2	1:D:177:GLU:OE1	2.21	0.40
1:F:145:GLU:O	1:F:148:ILE:HG12	2.21	0.40
1:F:182:LEU:HD12	1:F:182:LEU:H	1.85	0.40
1:x:26:PRO:HB2	1:x:28:GLU:OE1	2.21	0.40
1:x:145:GLU:O	1:x:148:ILE:HG12	2.21	0.40
1:G:155:LEU:HA	1:G:155:LEU:HD23	1.87	0.40
1:c:9:LEU:HD22	1:c:50:PHE:CD2	2.56	0.40
1:c:79:GLY:O	1:c:83:VAL:HG23	2.21	0.40
1:y:8:LYS:H	1:y:8:LYS:HG2	1.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:66:GLU:OE1	1:y:66:GLU:N	2.51	0.40
1:d:79:GLY:O	1:d:83:VAL:HG23	2.21	0.40
1:o:145:GLU:O	1:o:148:ILE:HG12	2.21	0.40
1:e:93:GLU:HA	1:e:101:LYS:HZ2	1.87	0.40
1:p:178:PRO:HG2	1:p:181:ASP:CB	2.52	0.40
1:J:9:LEU:HD22	1:J:50:PHE:CD2	2.56	0.40
1:f:26:PRO:HB2	1:f:28:GLU:OE1	2.21	0.40
1:g:79:GLY:O	1:g:83:VAL:HG23	2.21	0.40
1:2:169:VAL:O	1:2:173:ARG:HG2	2.22	0.40
1:h:178:PRO:HG2	1:h:181:ASP:HB3	2.02	0.40
1:s:66:GLU:OE1	1:s:66:GLU:N	2.51	0.40
1:s:226:PHE:CZ	1:3:231:GLU:CG	3.01	0.40
1:i:169:VAL:O	1:i:173:ARG:HG2	2.22	0.40
1:i:177:GLU:OE1	1:i:177:GLU:N	2.50	0.40
1:t:57:LEU:HD12	1:t:57:LEU:HA	1.82	0.40
1:t:145:GLU:O	1:t:148:ILE:HG12	2.21	0.40
1:t:155:LEU:HD23	1:t:155:LEU:HA	1.87	0.40
1:4:178:PRO:HG2	1:4:181:ASP:CB	2.51	0.40
1:u:32:LEU:HA	1:u:32:LEU:HD12	1.76	0.40
1:u:202:ARG:NE	1:u:202:ARG:HA	2.37	0.40
1:O:9:LEU:HD22	1:O:50:PHE:CD2	2.56	0.40
1:Z:202:ARG:NE	1:Z:202:ARG:HA	2.36	0.40
1:v:26:PRO:HB2	1:v:28:GLU:OE1	2.21	0.40
1:a:182:LEU:HD12	1:a:182:LEU:H	1.85	0.40
1:l:11:LYS:O	1:l:15:LEU:HG	2.21	0.40
1:l:178:PRO:HG2	1:l:181:ASP:CB	2.52	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	1	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	2	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	3	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	4	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	5	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	6	230/256 (90%)	221 (96%)	8 (4%)	1 (0%)	30	63
1	7	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	A	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	B	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	C	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	D	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	E	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	F	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	G	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	H	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	I	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	J	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	K	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	L	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	M	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	N	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	O	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	P	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	Q	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	R	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	S	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	T	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	U	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	V	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	W	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	X	230/256 (90%)	222 (96%)	8 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	Z	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	a	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	b	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	c	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	d	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	e	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	f	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	g	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	h	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	i	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	j	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	k	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	l	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	m	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	n	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	o	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	p	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	q	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	r	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	s	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	t	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	u	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	v	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	w	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	x	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
1	y	230/256 (90%)	221 (96%)	9 (4%)	0	100	100
1	z	230/256 (90%)	222 (96%)	8 (4%)	0	100	100
All	All	13800/15360 (90%)	13284 (96%)	515 (4%)	1 (0%)	100	100

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	6	201	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	1	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	2	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	3	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	4	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	5	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	6	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	7	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	A	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	B	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	C	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	D	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	E	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	F	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	G	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	H	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	I	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	J	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	K	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	L	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	M	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	N	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	O	201/220 (91%)	200 (100%)	1 (0%)	86	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	P	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	Q	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	R	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	S	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	T	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	U	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	V	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	W	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	X	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	Y	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	Z	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	a	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	b	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	c	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	d	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	e	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	f	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	g	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	h	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	i	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	j	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	k	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	l	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	m	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	n	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	o	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	p	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	q	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	r	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	s	201/220 (91%)	200 (100%)	1 (0%)	86	92
1	t	201/220 (91%)	200 (100%)	1 (0%)	86	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	u	201/220 (91%)	200 (100%)	1 (0%)	86 92
1	v	201/220 (91%)	200 (100%)	1 (0%)	86 92
1	w	201/220 (91%)	200 (100%)	1 (0%)	86 92
1	x	201/220 (91%)	200 (100%)	1 (0%)	86 92
1	y	201/220 (91%)	200 (100%)	1 (0%)	86 92
1	z	201/220 (91%)	200 (100%)	1 (0%)	86 92
All	All	12060/13200 (91%)	12000 (100%)	60 (0%)	85 92

All (60) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	200	ASP
1	B	200	ASP
1	C	200	ASP
1	D	200	ASP
1	E	200	ASP
1	F	200	ASP
1	Q	200	ASP
1	b	200	ASP
1	m	200	ASP
1	x	200	ASP
1	G	200	ASP
1	R	200	ASP
1	c	200	ASP
1	n	200	ASP
1	y	200	ASP
1	H	200	ASP
1	S	200	ASP
1	d	200	ASP
1	o	200	ASP
1	z	200	ASP
1	I	200	ASP
1	T	200	ASP
1	e	200	ASP
1	p	200	ASP
1	0	200	ASP
1	J	200	ASP
1	U	200	ASP
1	f	200	ASP
1	q	200	ASP

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Mol	Chain	Res	Type
1	1	200	ASP
1	K	200	ASP
1	V	200	ASP
1	g	200	ASP
1	r	200	ASP
1	2	200	ASP
1	L	200	ASP
1	W	200	ASP
1	h	200	ASP
1	s	200	ASP
1	3	200	ASP
1	M	200	ASP
1	X	200	ASP
1	i	200	ASP
1	t	200	ASP
1	4	200	ASP
1	N	200	ASP
1	Y	200	ASP
1	j	200	ASP
1	u	200	ASP
1	5	200	ASP
1	O	200	ASP
1	Z	200	ASP
1	k	200	ASP
1	v	200	ASP
1	6	200	ASP
1	P	200	ASP
1	a	200	ASP
1	l	200	ASP
1	w	200	ASP
1	7	200	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 120 ligands modelled in this entry, 120 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

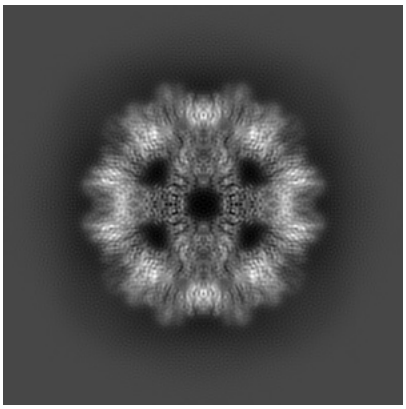
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-62154. These allow visual inspection of the internal detail of the map and identification of artifacts.

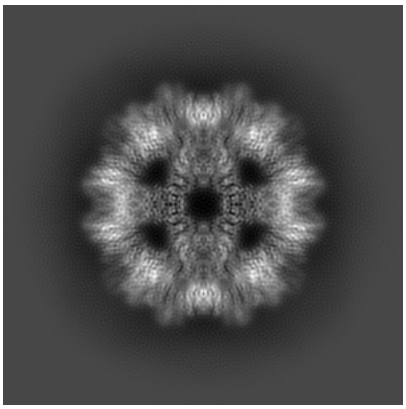
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

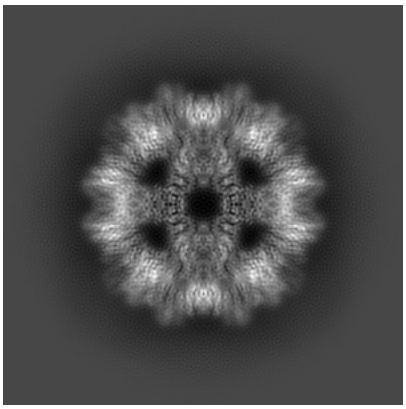
6.1.1 Primary map



X

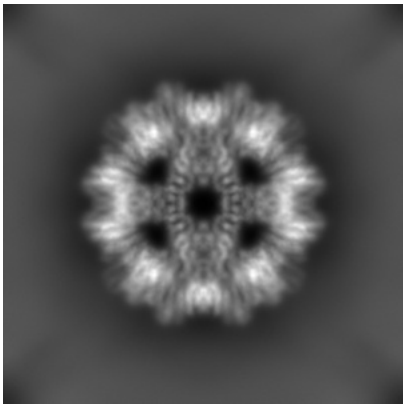


Y

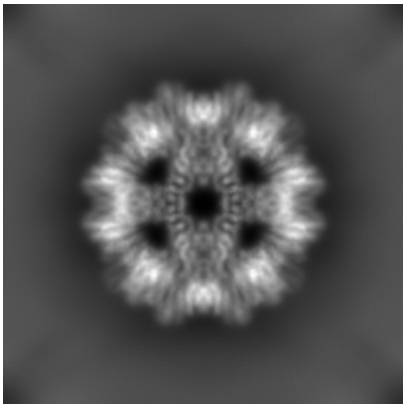


Z

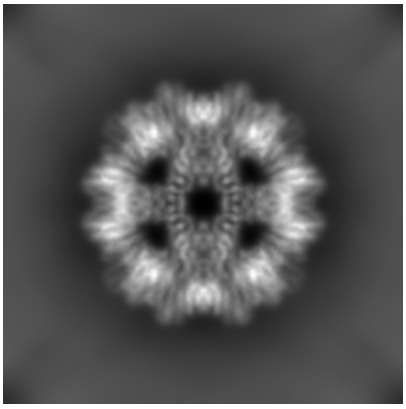
6.1.2 Raw map



X



Y

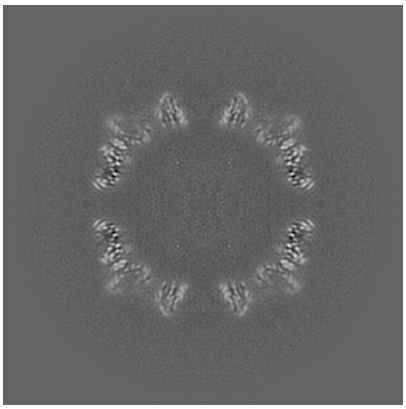


Z

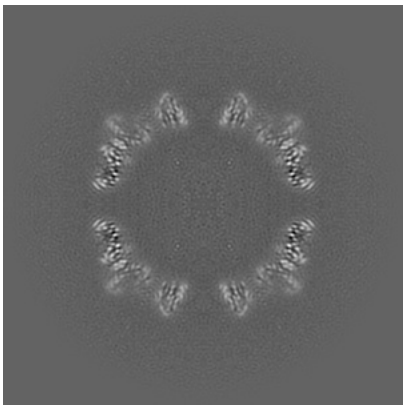
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

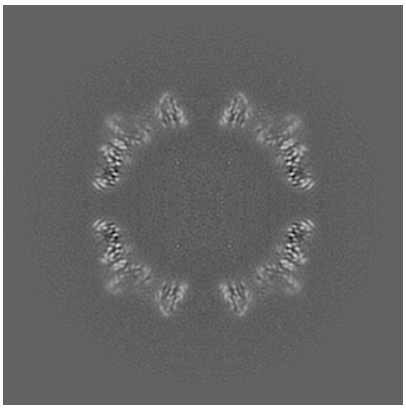
6.2.1 Primary map



X Index: 180

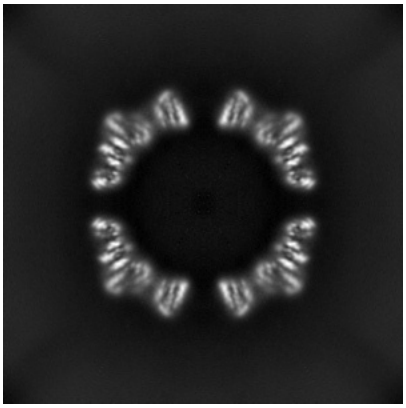


Y Index: 180

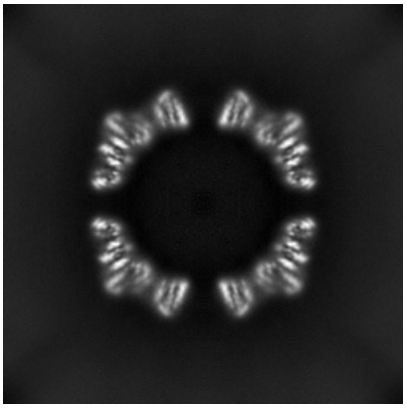


Z Index: 180

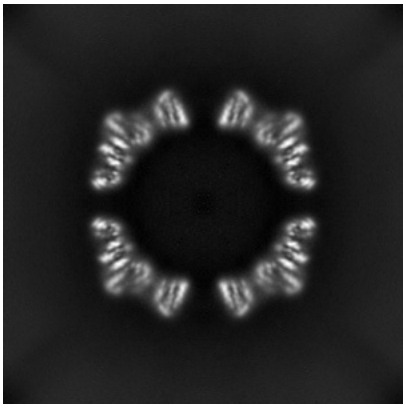
6.2.2 Raw map



X Index: 180



Y Index: 180

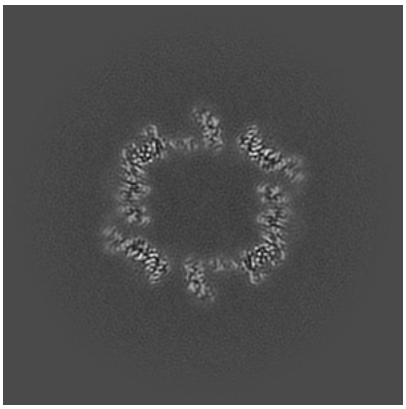


Z Index: 180

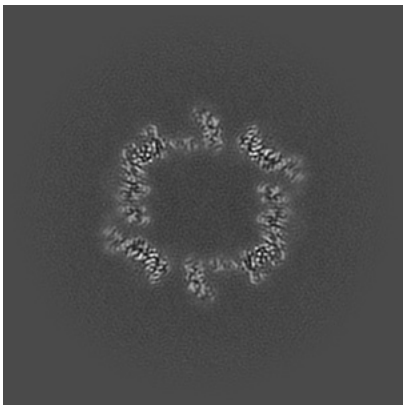
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

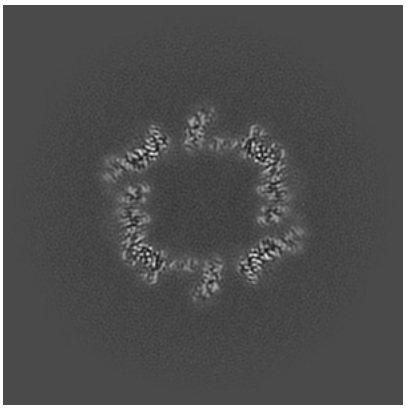
6.3.1 Primary map



X Index: 235

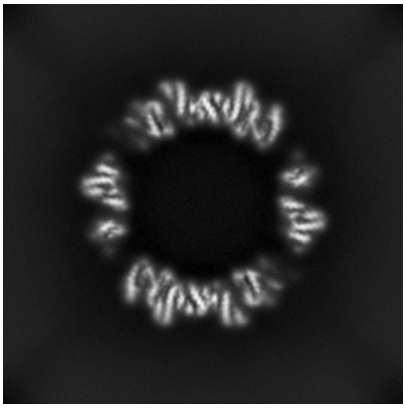


Y Index: 235

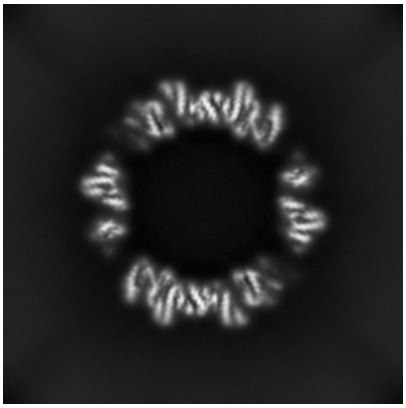


Z Index: 125

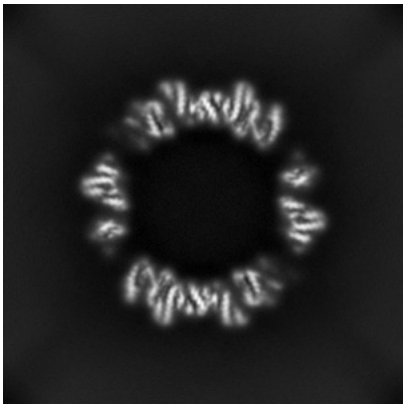
6.3.2 Raw map



X Index: 160



Y Index: 160

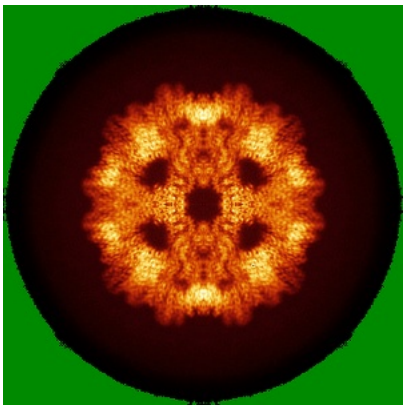


Z Index: 160

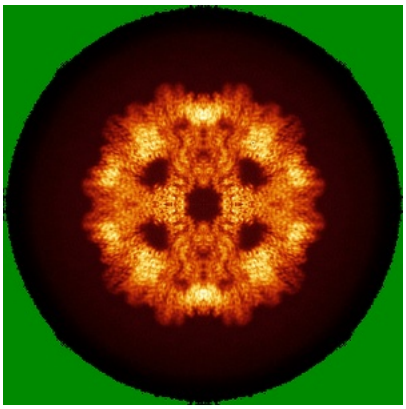
The images above show the largest variance slices of the map in three orthogonal directions.

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

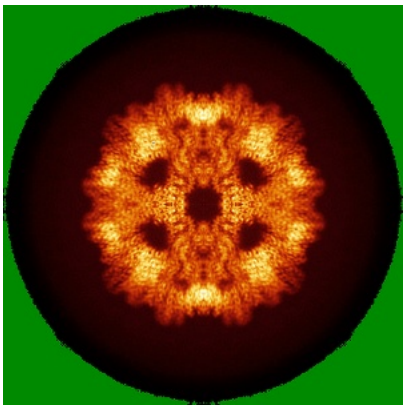
6.4.1 Primary map



X

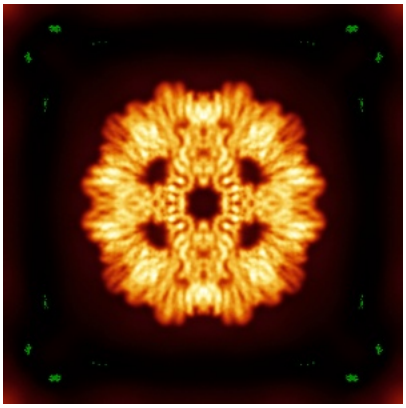


Y

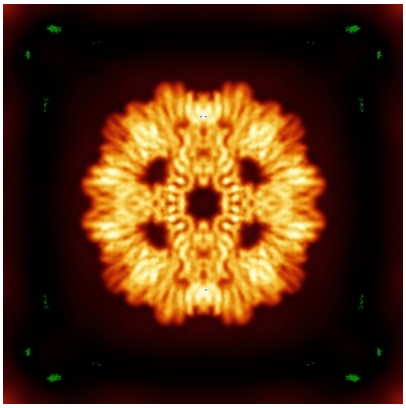


Z

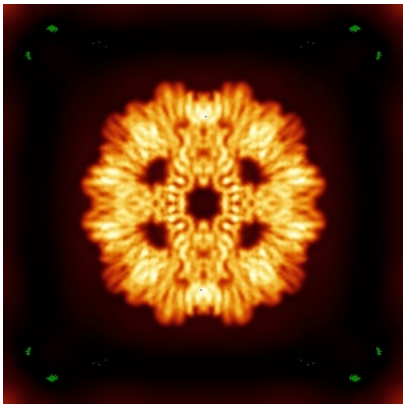
6.4.2 Raw map



X



Y

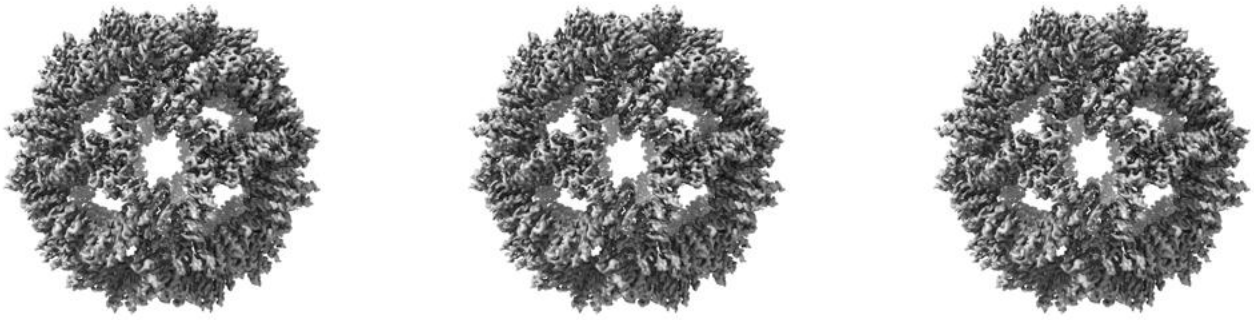


Z

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

6.5 Orthogonal surface views (i)

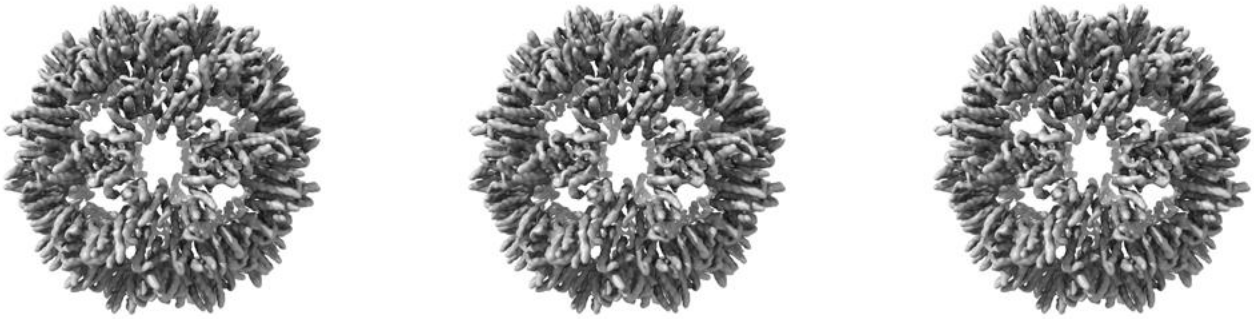
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.531. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

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

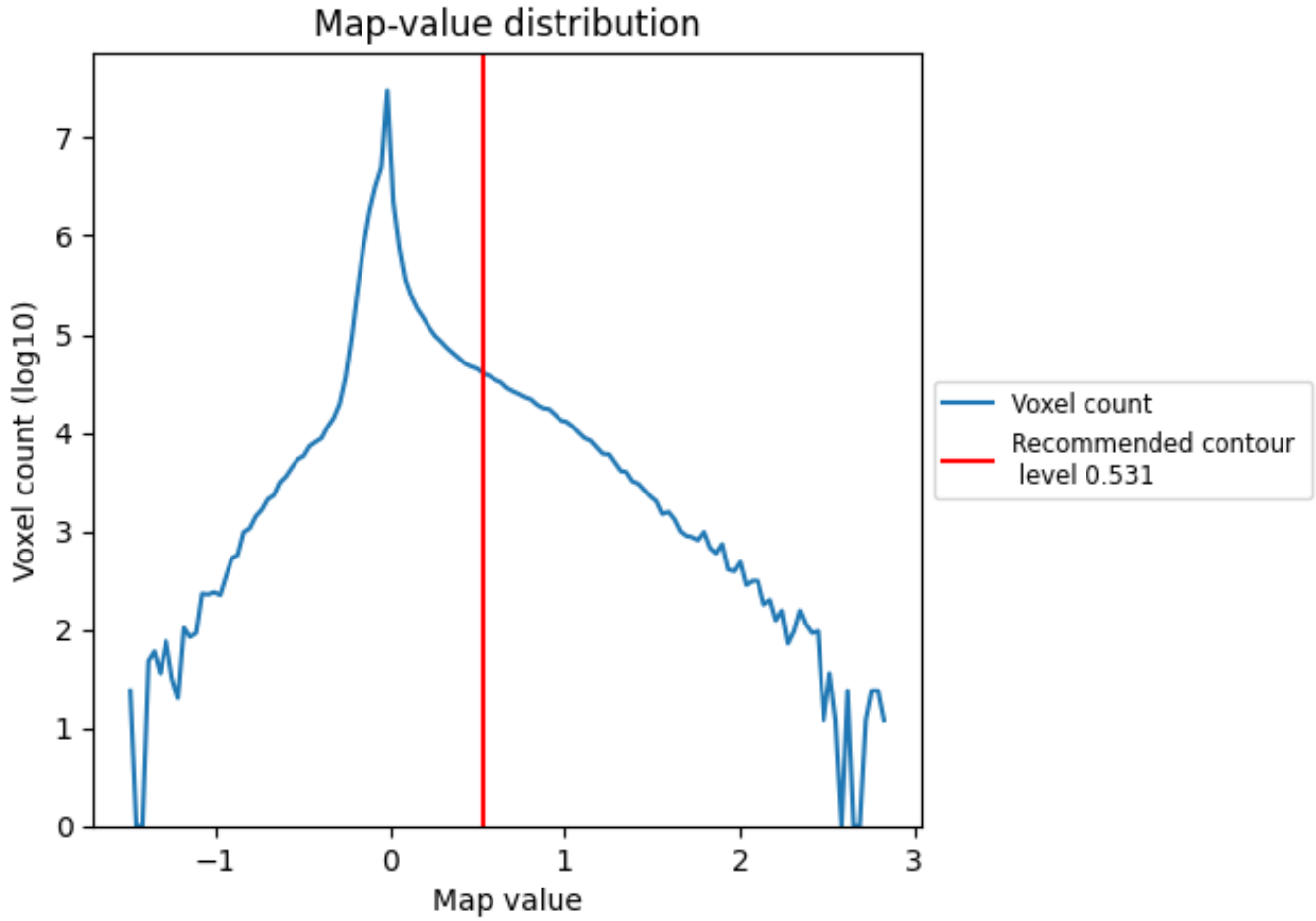
6.6 Mask visualisation (i)

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

7 Map analysis

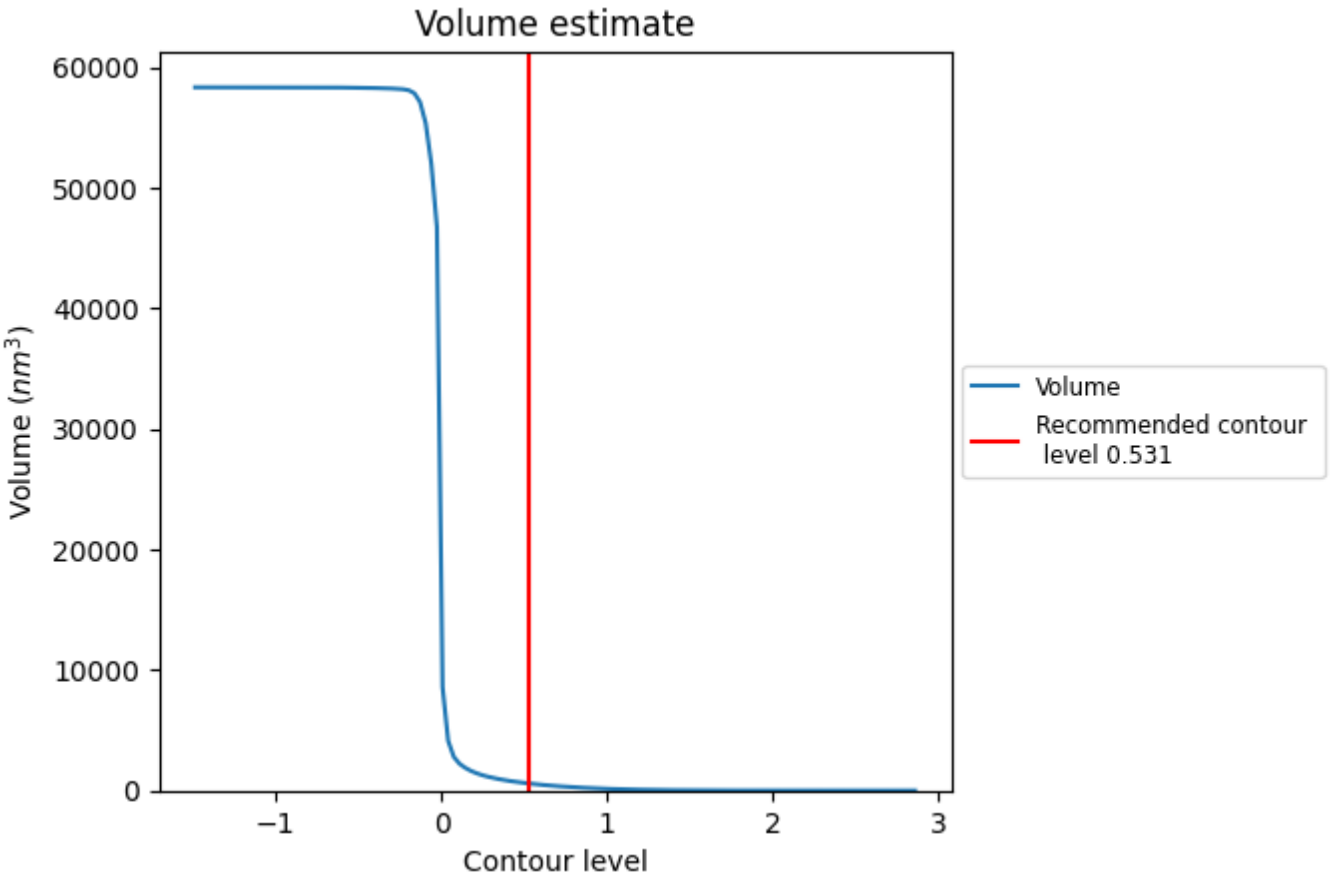
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

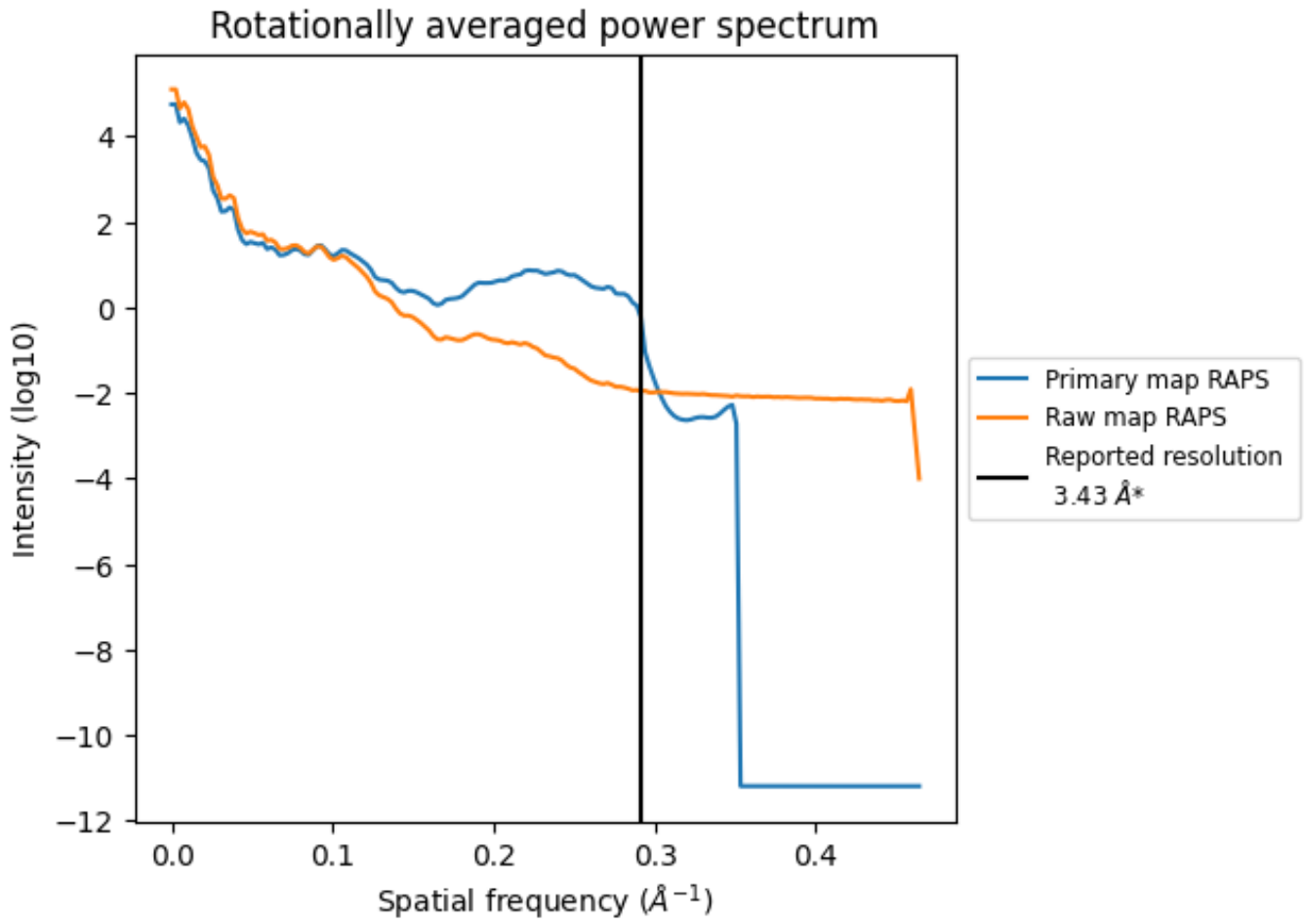
7.2 Volume estimate



The volume at the recommended contour level is 584 nm^3; this corresponds to an approximate mass of 528 kDa.

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

7.3 Rotationally averaged power spectrum (i)

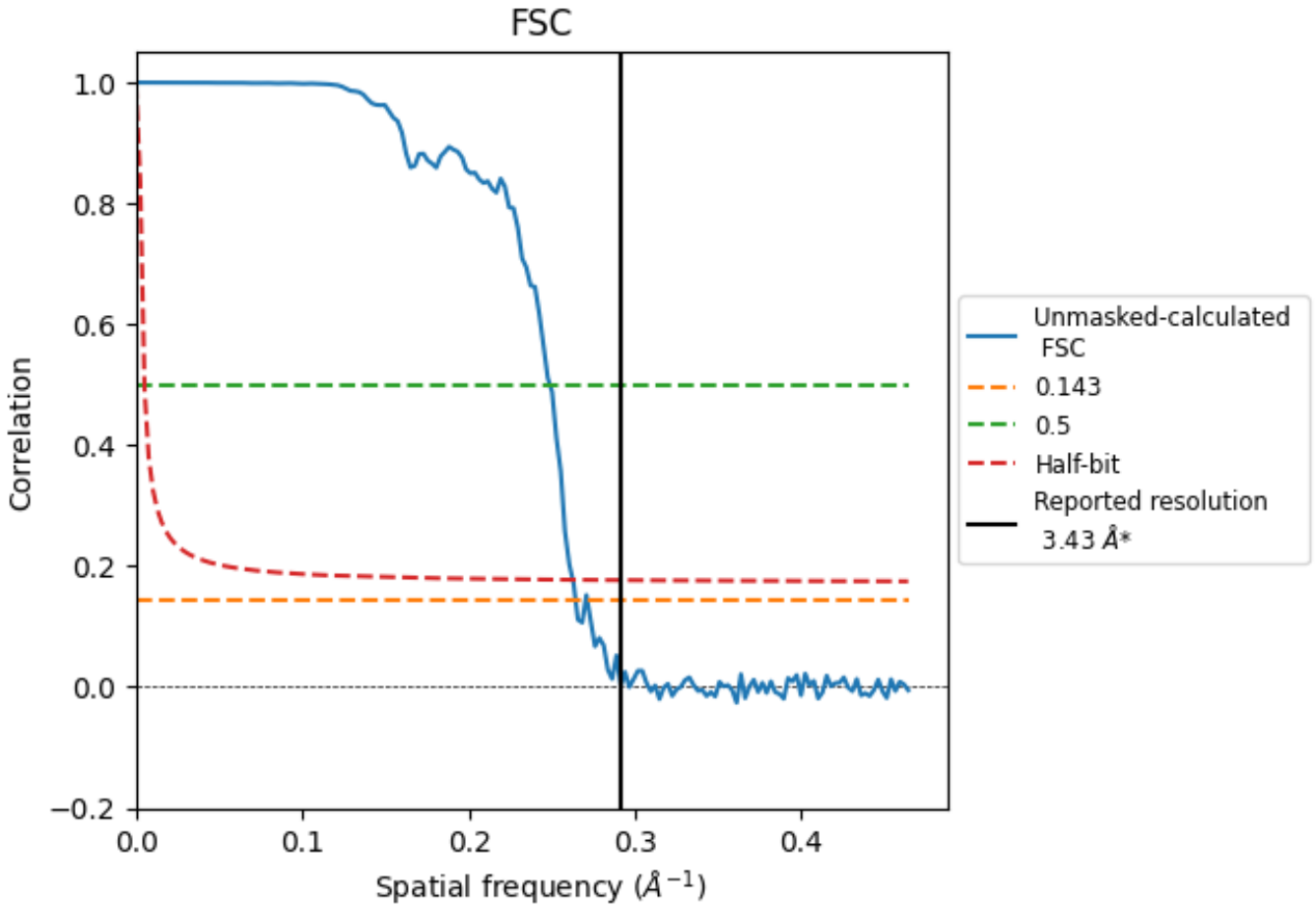


*Reported resolution corresponds to spatial frequency of 0.292 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.292 Å^{-1}

8.2 Resolution estimates (i)

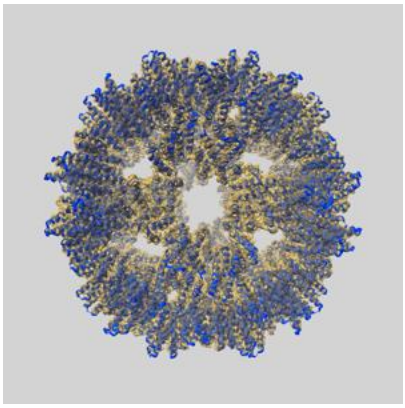
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.43	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.79	4.02	3.81

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.79 differs from the reported value 3.43 by more than 10 %

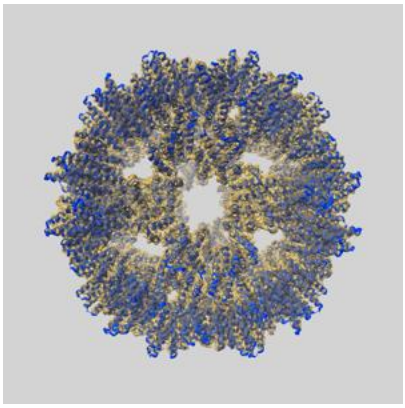
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-62154 and PDB model 9K7Y. Per-residue inclusion information can be found in section 3 on page 12.

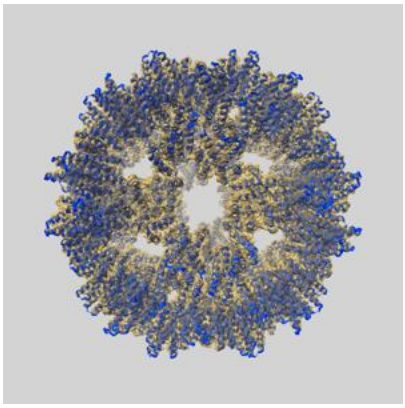
9.1 Map-model overlay



X



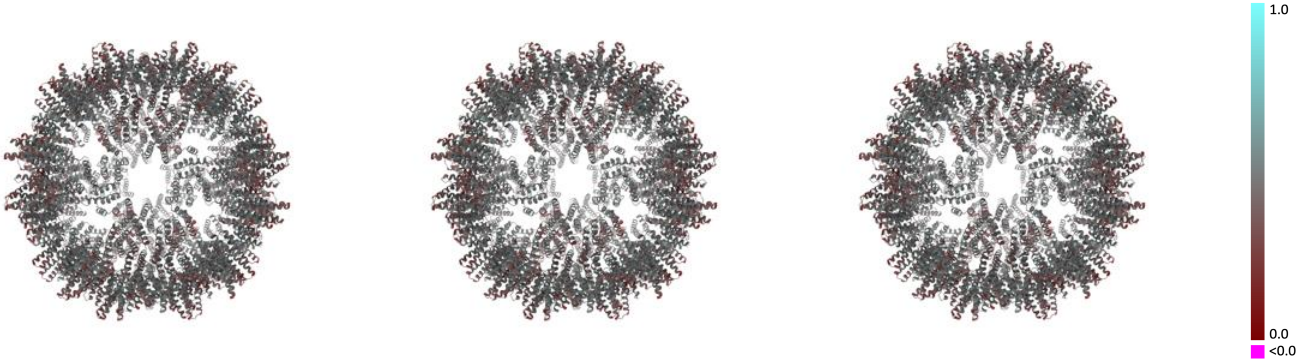
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.531 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

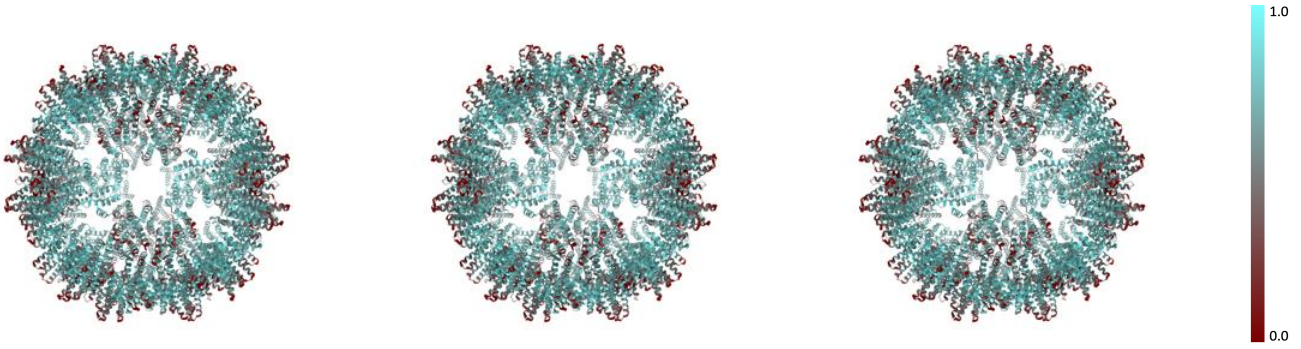
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

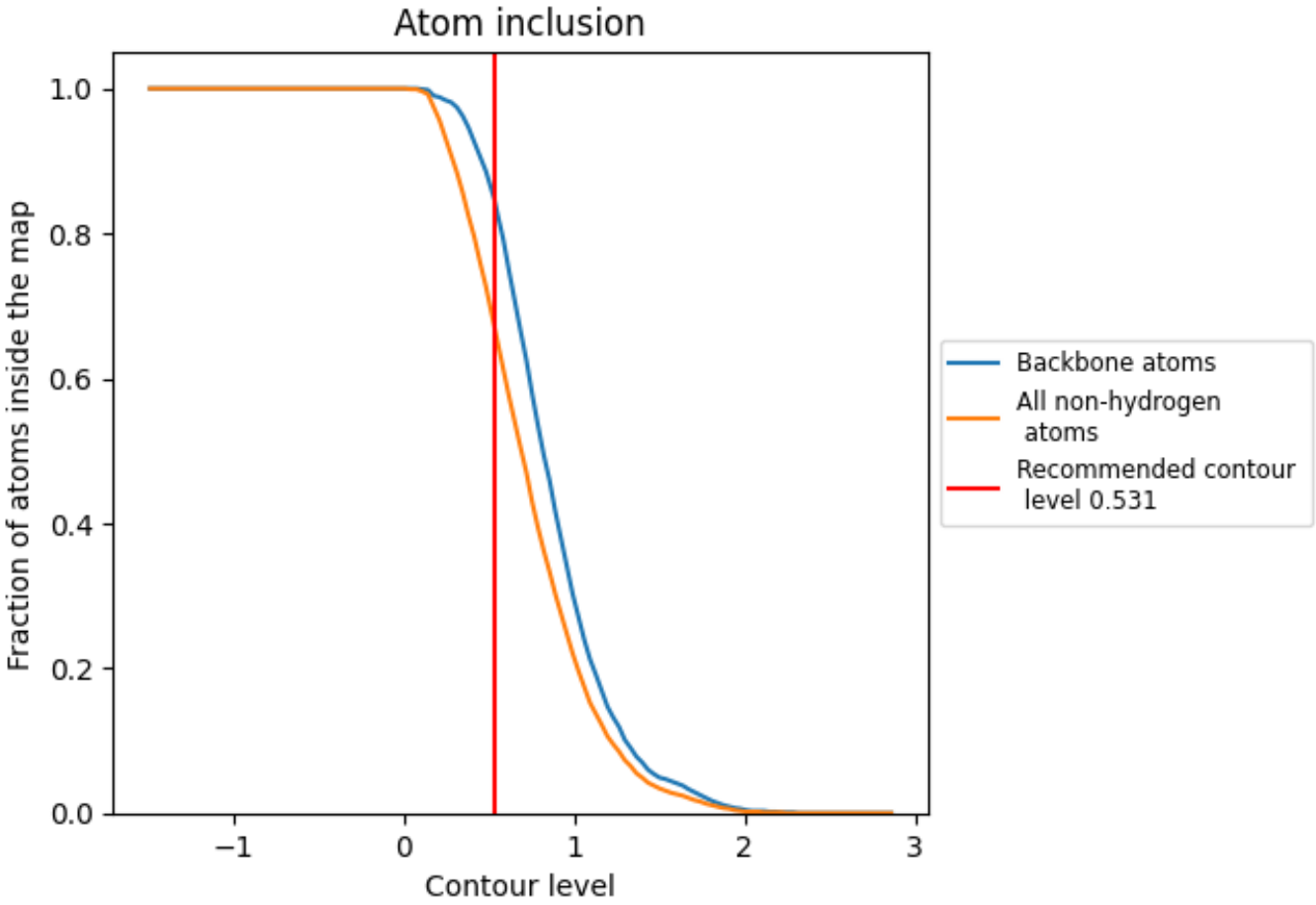
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.531).

9.4 Atom inclusion (i)



At the recommended contour level, 85% of all backbone atoms, 67% 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 (0.531) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6720	0.4480
0	0.6750	0.4500
1	0.6710	0.4480
2	0.6740	0.4490
3	0.6720	0.4470
4	0.6740	0.4490
5	0.6720	0.4510
6	0.6710	0.4470
7	0.6750	0.4470
A	0.6680	0.4490
B	0.6760	0.4480
C	0.6740	0.4480
D	0.6730	0.4500
E	0.6660	0.4480
F	0.6740	0.4480
G	0.6760	0.4500
H	0.6670	0.4500
I	0.6730	0.4490
J	0.6660	0.4480
K	0.6740	0.4500
L	0.6650	0.4460
M	0.6730	0.4480
N	0.6750	0.4480
O	0.6660	0.4460
P	0.6750	0.4490
Q	0.6740	0.4460
R	0.6720	0.4490
S	0.6730	0.4480
T	0.6670	0.4470
U	0.6720	0.4500
V	0.6700	0.4490
W	0.6700	0.4480
X	0.6670	0.4480
Y	0.6740	0.4470
Z	0.6680	0.4480

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Chain	Atom inclusion	Q-score
a	0.6720	0.4470
b	0.6740	0.4480
c	0.6670	0.4480
d	0.6730	0.4480
e	0.6700	0.4470
f	0.6750	0.4470
g	0.6660	0.4480
h	0.6750	0.4490
i	0.6700	0.4510
j	0.6750	0.4480
k	0.6750	0.4490
l	0.6670	0.4460
m	0.6680	0.4490
n	0.6690	0.4490
o	0.6720	0.4480
p	0.6780	0.4470
q	0.6740	0.4480
r	0.6700	0.4500
s	0.6740	0.4490
t	0.6750	0.4480
u	0.6670	0.4490
v	0.6750	0.4500
w	0.6680	0.4510
x	0.6710	0.4510
y	0.6750	0.4480
z	0.6670	0.4470