Full wwPDB EM Validation Report ⓘ

May 13, 2025 – 11:27 AM EDT

PDB ID	:	8EP2 / pdb_00008ep2
EMDB ID	:	EMD-28514
Title	:	The capsid structure of Aleutian Mink Disease Virus
Authors	:	Mietzsch, M.; McKenna, R.
Deposited on	:	2022-10-04
Resolution	:	2.37 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:

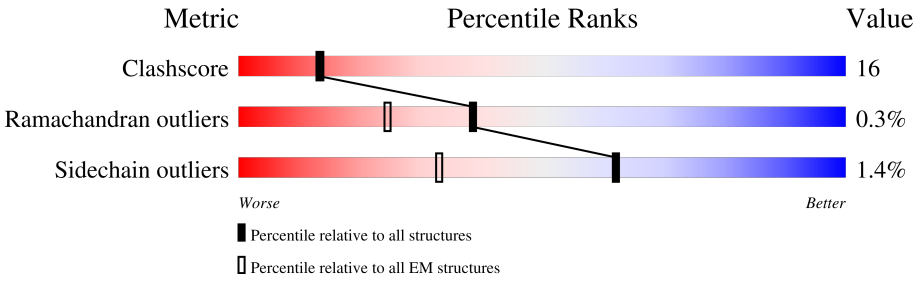
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.43.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.37 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)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	1	647	62% 27% • 11%
1	2	647	62% 26% • 11%
1	3	647	62% 26% • 11%
1	4	647	61% 27% • 11%
1	5	647	62% 26% • 11%
1	6	647	62% 26% • 11%
1	7	647	61% 27% • 11%
1	8	647	62% 26% • 11%

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Mol	Chain	Length	Quality of chain
1	A	647	62% 26% 11%
1	B	647	62% 27% 11%
1	C	647	62% 26% 11%
1	D	647	61% 27% 11%
1	E	647	62% 26% 11%
1	F	647	62% 26% 11%
1	G	647	62% 26% 11%
1	H	647	62% 26% 11%
1	I	647	62% 26% 11%
1	J	647	62% 26% 11%
1	K	647	62% 26% 11%
1	L	647	62% 26% 11%
1	M	647	62% 26% 11%
1	N	647	61% 27% 11%
1	O	647	62% 26% 11%
1	P	647	62% 26% 11%
1	Q	647	62% 26% 11%
1	R	647	62% 26% 11%
1	S	647	62% 27% 11%
1	T	647	61% 27% 11%
1	U	647	61% 27% 11%
1	V	647	62% 26% 11%
1	W	647	62% 26% 11%
1	X	647	62% 26% 11%
1	Y	647	61% 27% 11%

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Mol	Chain	Length	Quality of chain
1	Z	647	62% 26% 11%
1	a	647	62% 26% 11%
1	b	647	61% 27% 11%
1	c	647	62% 26% 11%
1	d	647	62% 26% 11%
1	e	647	62% 26% 11%
1	f	647	61% 27% 11%
1	g	647	62% 26% 11%
1	h	647	62% 26% 11%
1	i	647	61% 27% 11%
1	j	647	62% 26% 11%
1	k	647	61% 27% 11%
1	l	647	62% 26% 11%
1	m	647	61% 27% 11%
1	n	647	62% 26% 11%
1	o	647	62% 26% 11%
1	p	647	62% 26% 11%
1	q	647	62% 26% 11%
1	r	647	62% 26% 11%
1	s	647	62% 26% 11%
1	t	647	61% 27% 11%
1	u	647	62% 26% 11%
1	v	647	62% 26% 11%
1	w	647	61% 27% 11%
1	x	647	62% 26% 11%

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Mol	Chain	Length	Quality of chain
1	y	647	
1	z	647	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 281880 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 Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	B	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	C	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	D	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	E	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	F	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	G	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	H	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	I	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	J	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	K	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	L	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	M	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	N	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	O	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	P	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	Q	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	S	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	T	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	U	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	V	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	W	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	X	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	Y	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	Z	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	a	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	b	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	c	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	d	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	e	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	f	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	g	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	h	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	i	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	j	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	k	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	l	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	n	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	o	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	p	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	q	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	r	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	s	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	t	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	u	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	v	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	w	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	x	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	y	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	z	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	1	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	2	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	3	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	4	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	5	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	6	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		
1	7	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		

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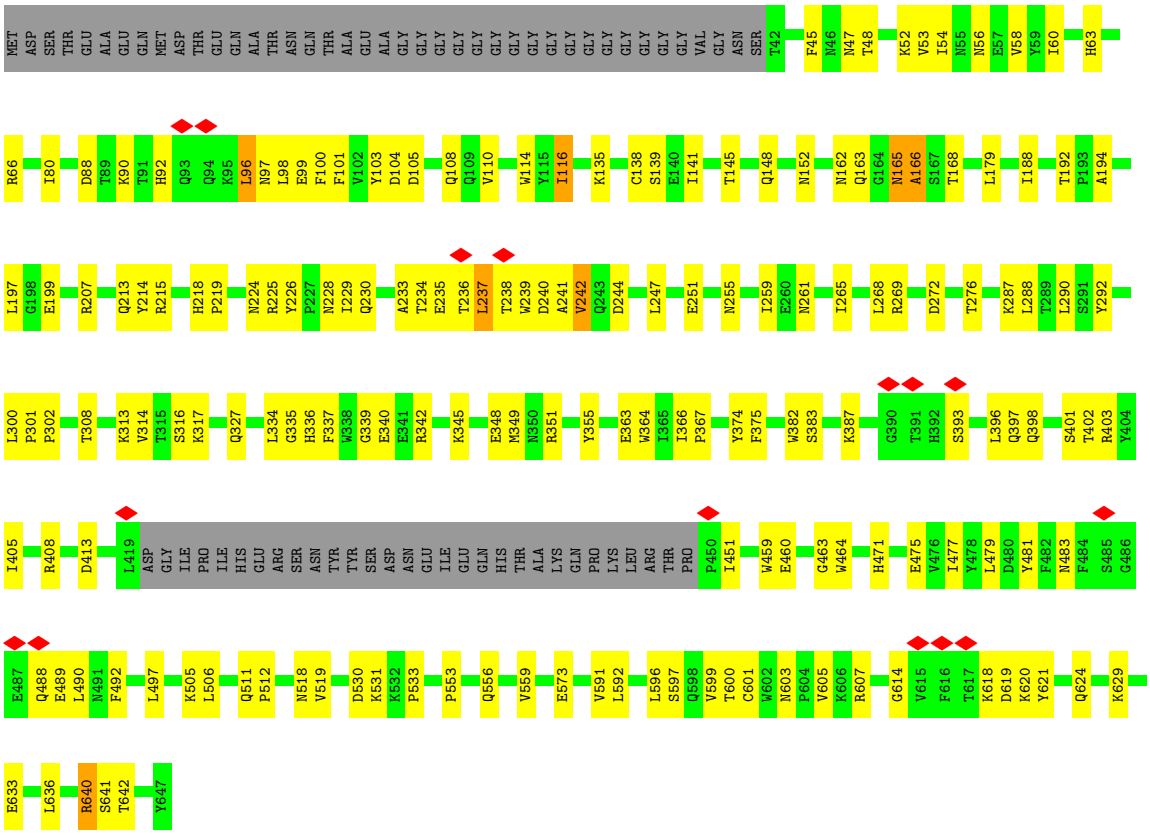
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	576	Total	C	N	O	S	0	0
			4698	2991	796	895	16		

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.

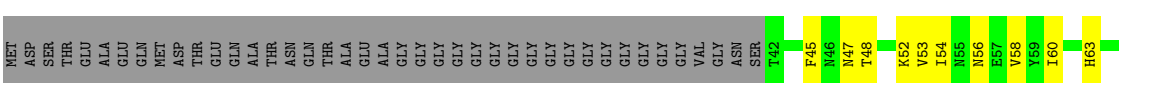
• Molecule 1: Capsid protein VP1

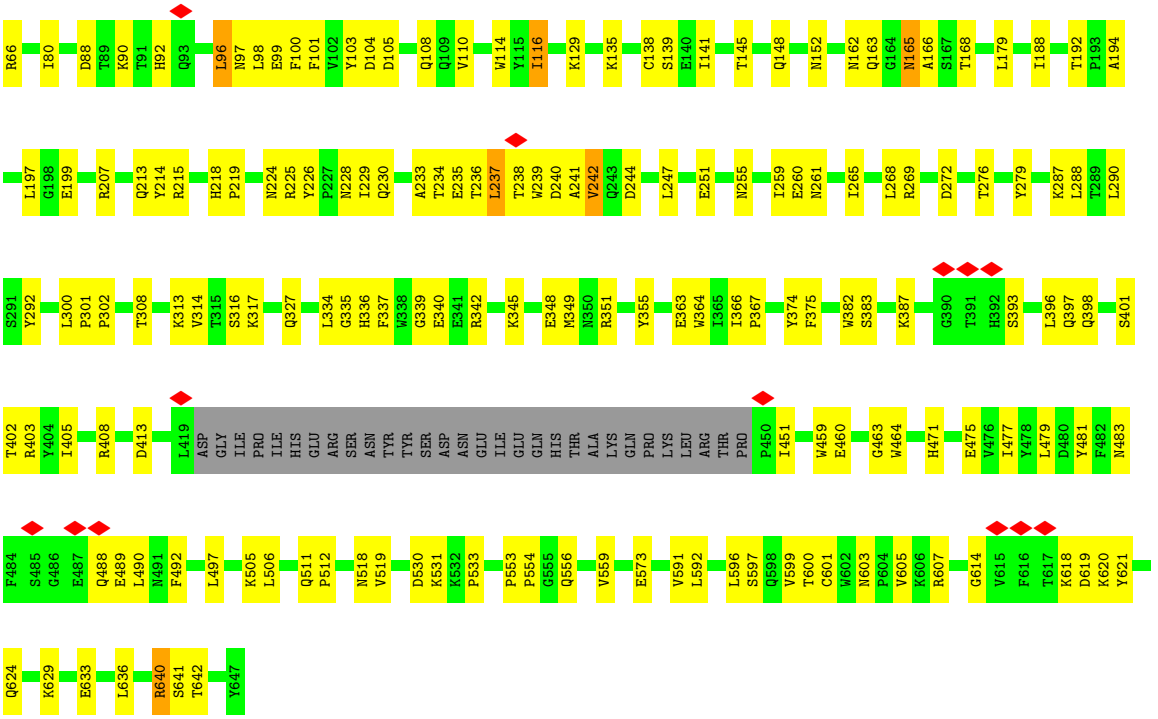
Chain A:



• Molecule 1: Capsid protein VP1

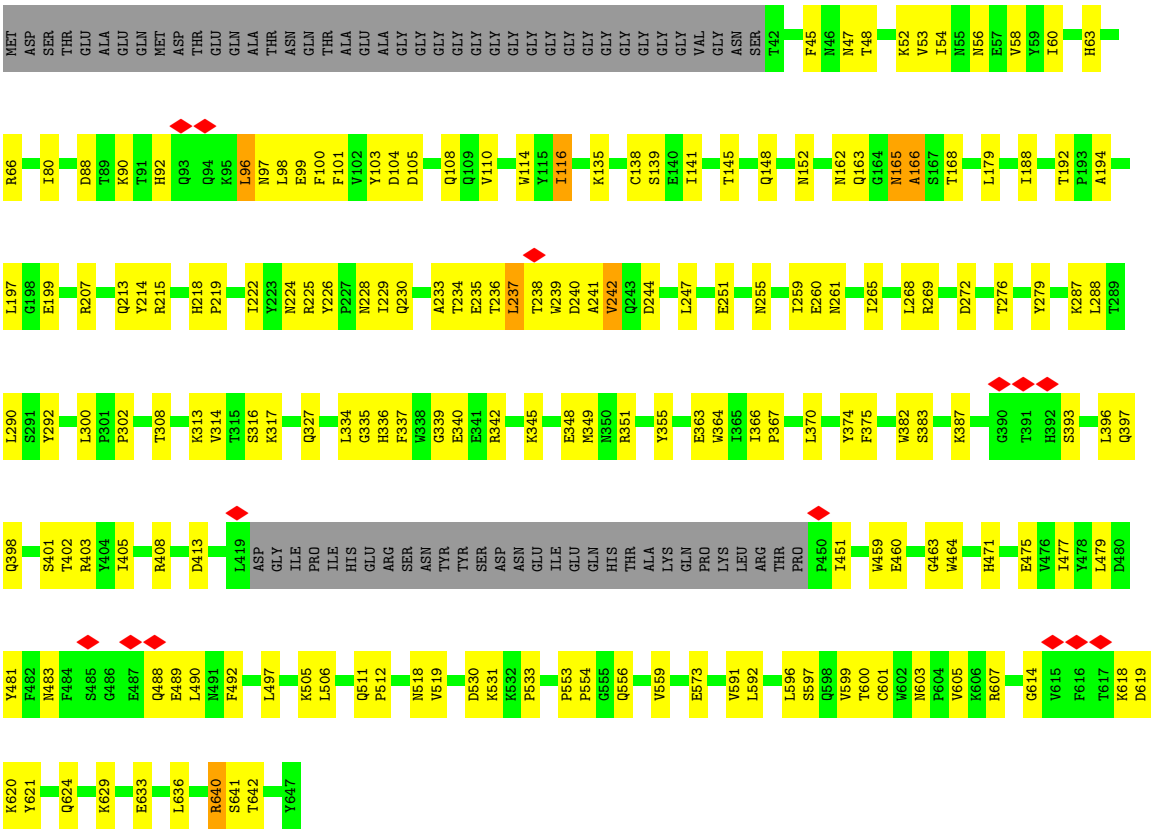
Chain B:





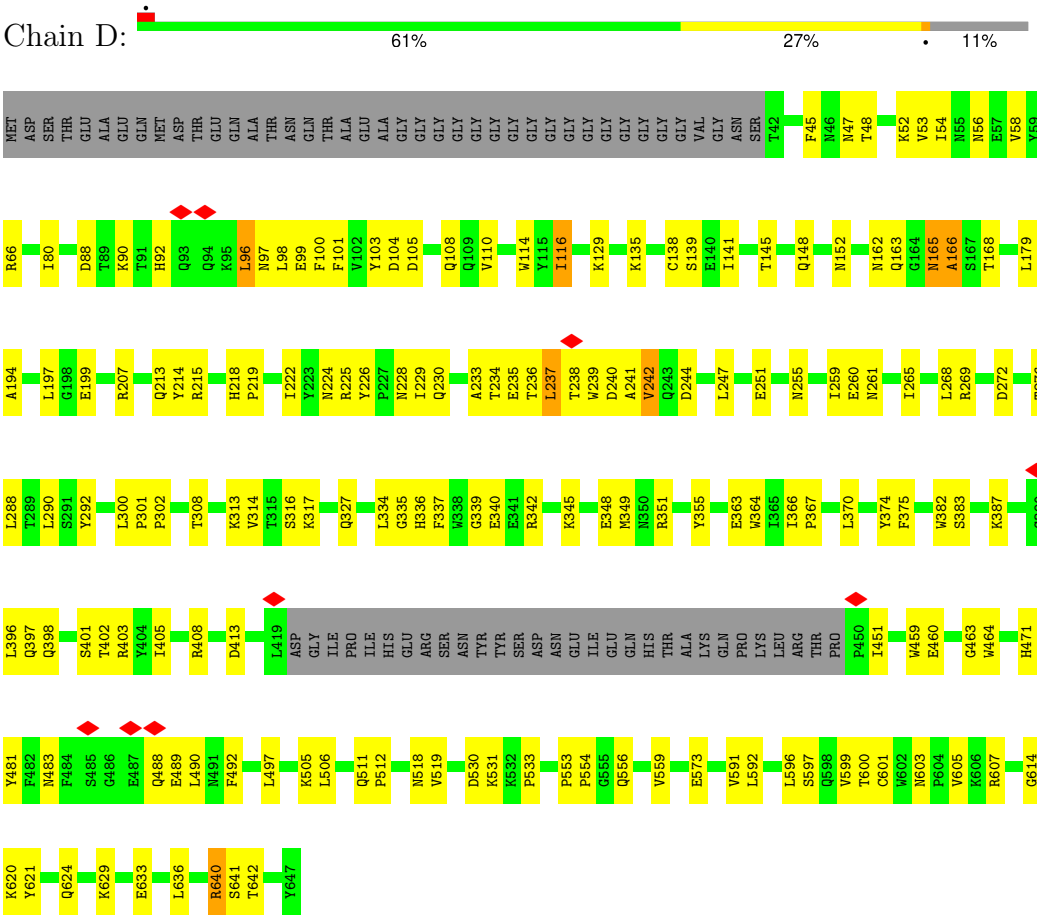
• Molecule 1: Capsid protein VP1

Chain C:



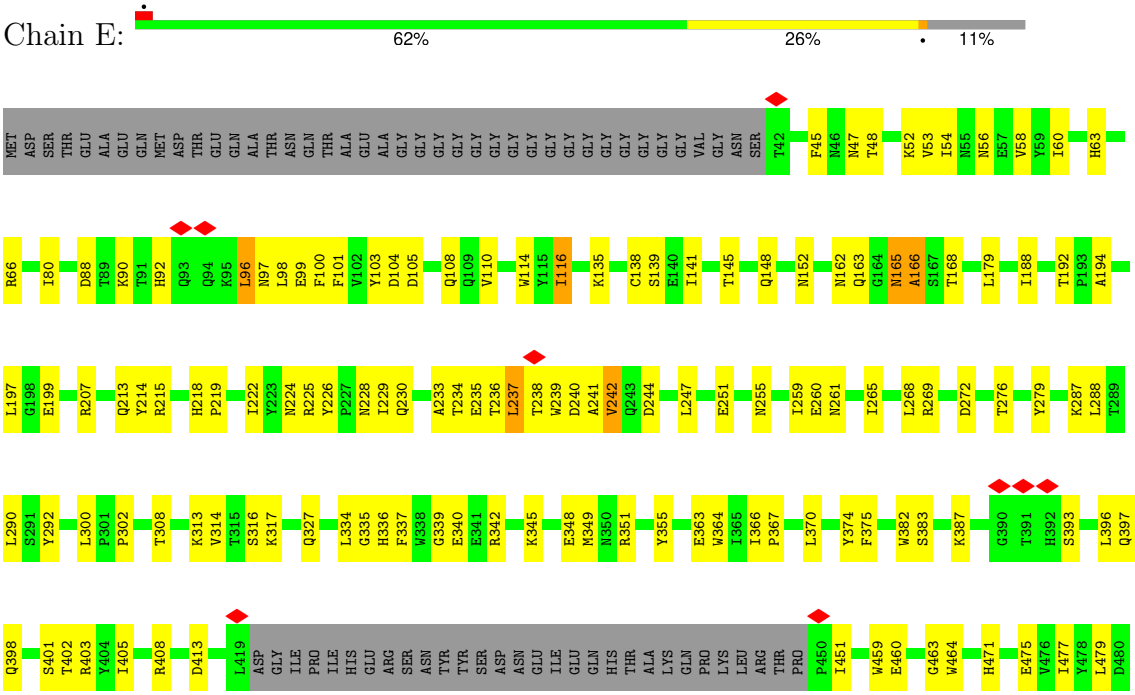
• Molecule 1: Capsid protein VP1

Chain D:



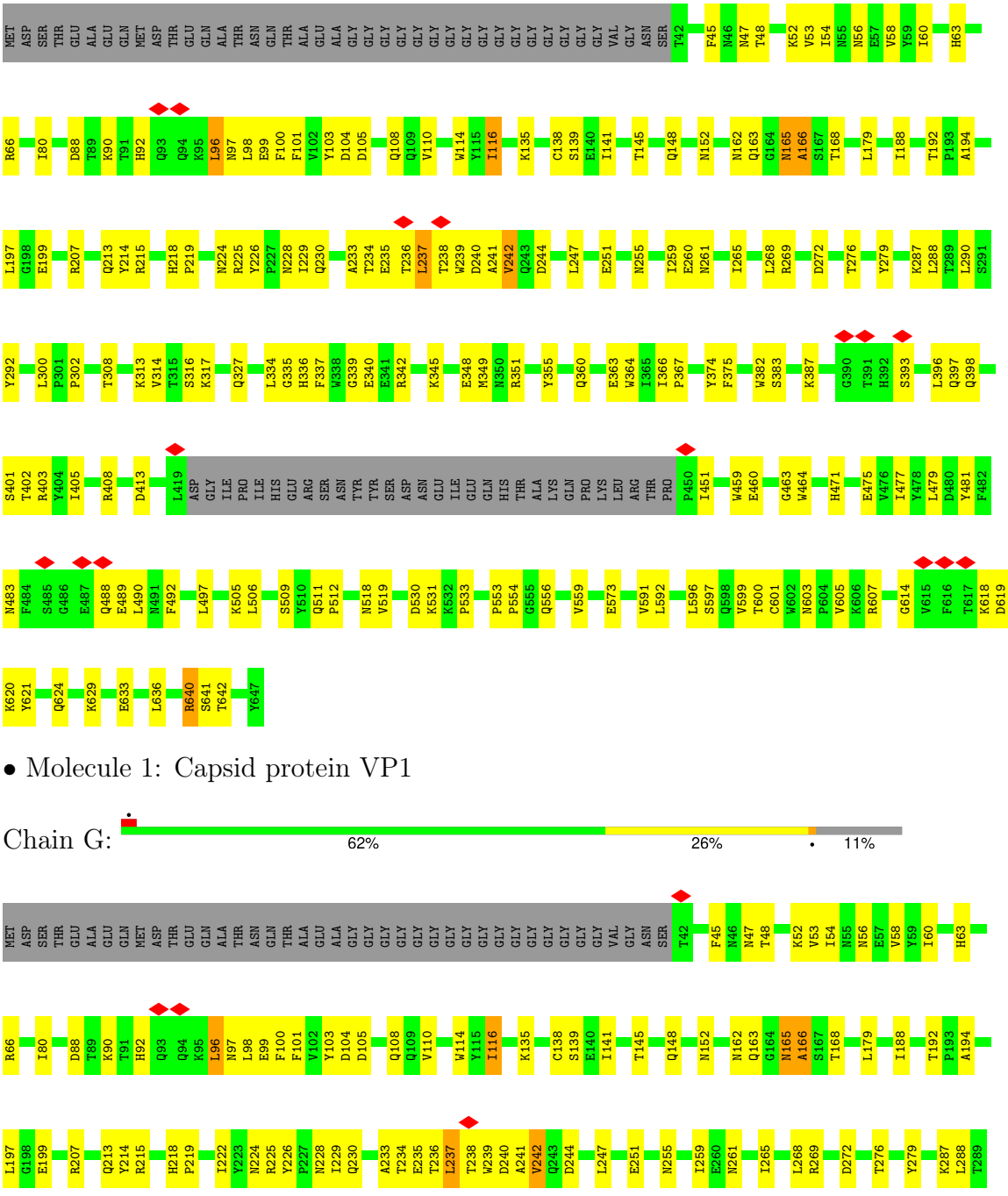
• Molecule 1: Capsid protein VP1

Chain E:



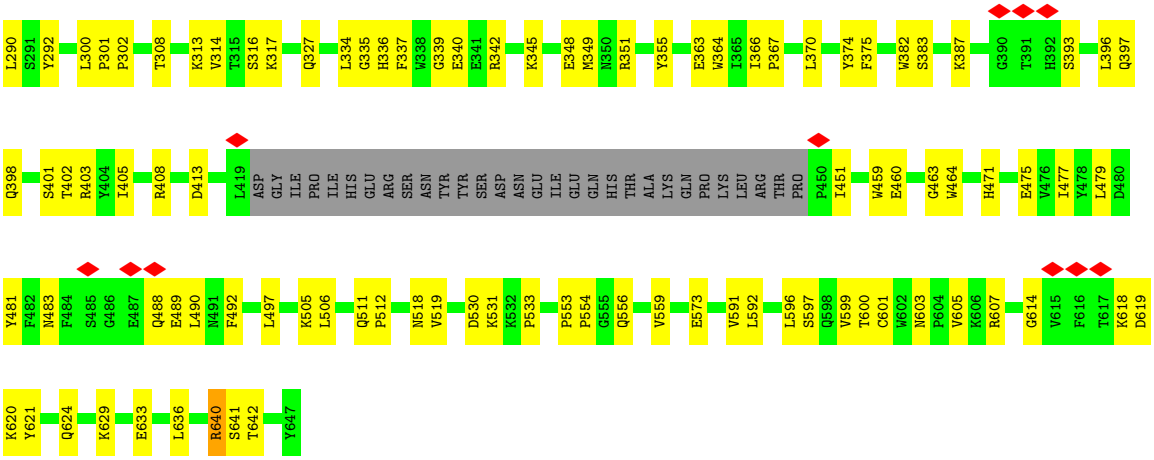
• Molecule 1: Capsid protein VP1

Chain F:



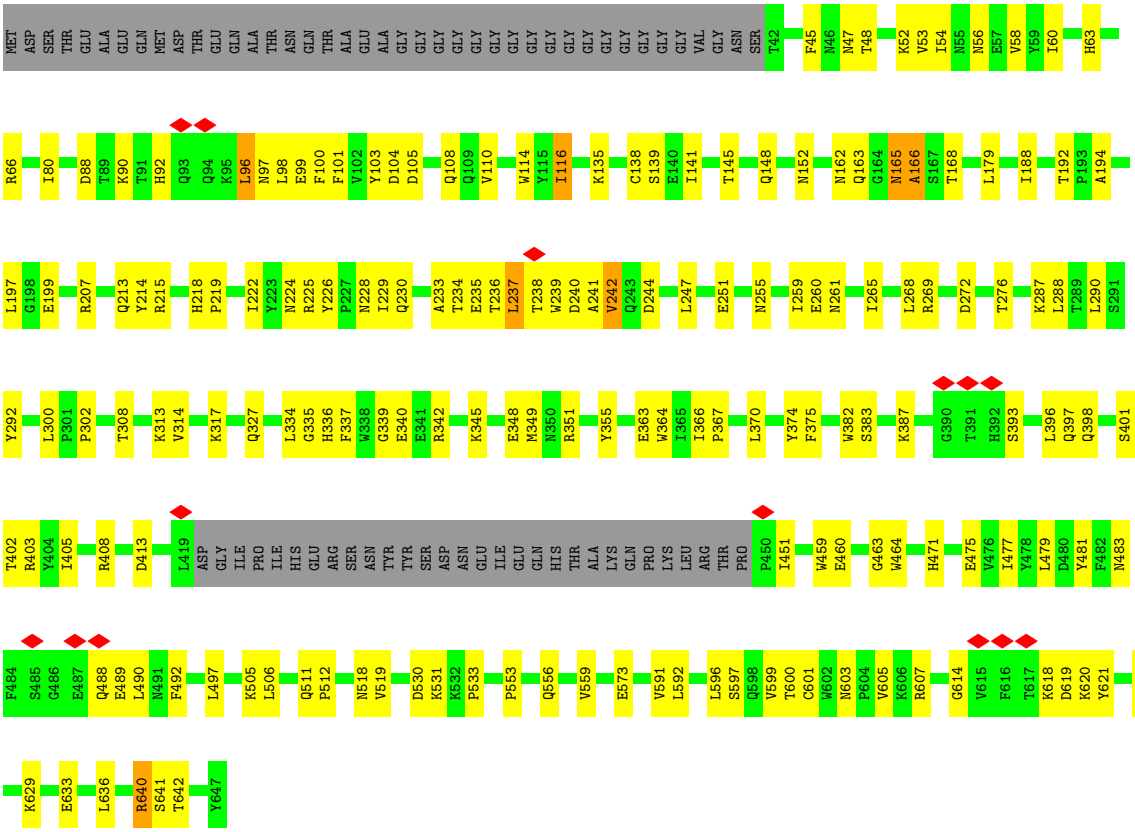
• Molecule 1: Capsid protein VP1

Chain G:



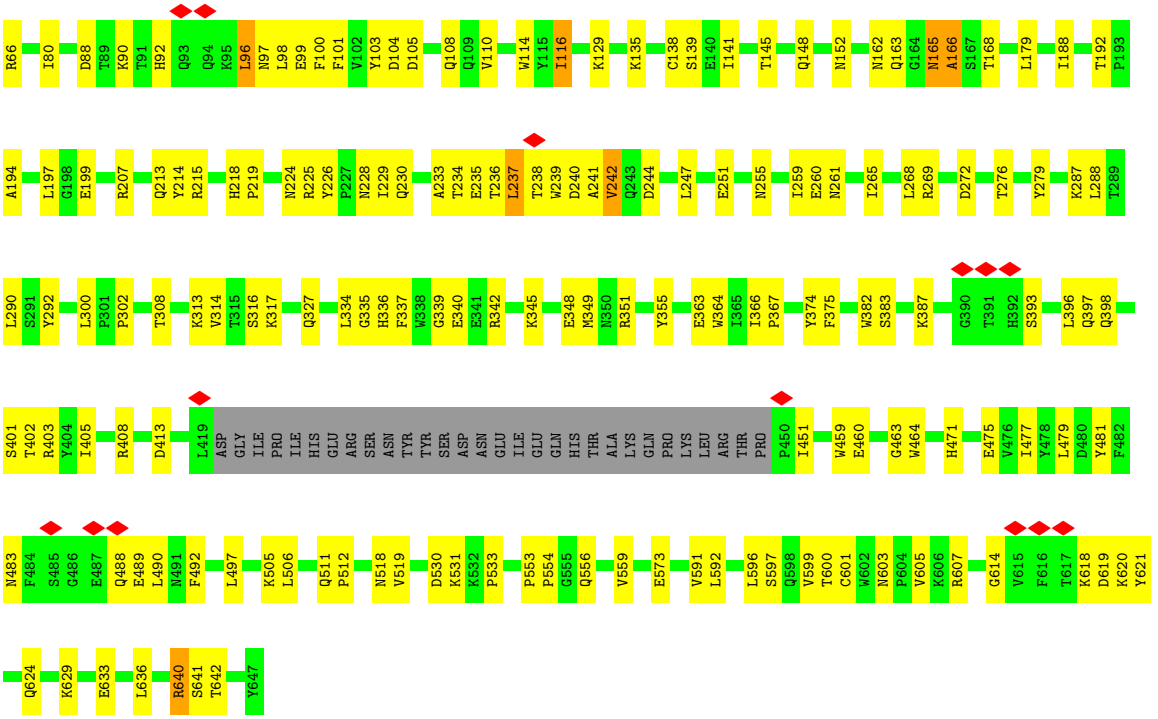
• Molecule 1: Capsid protein VP1

Chain H:



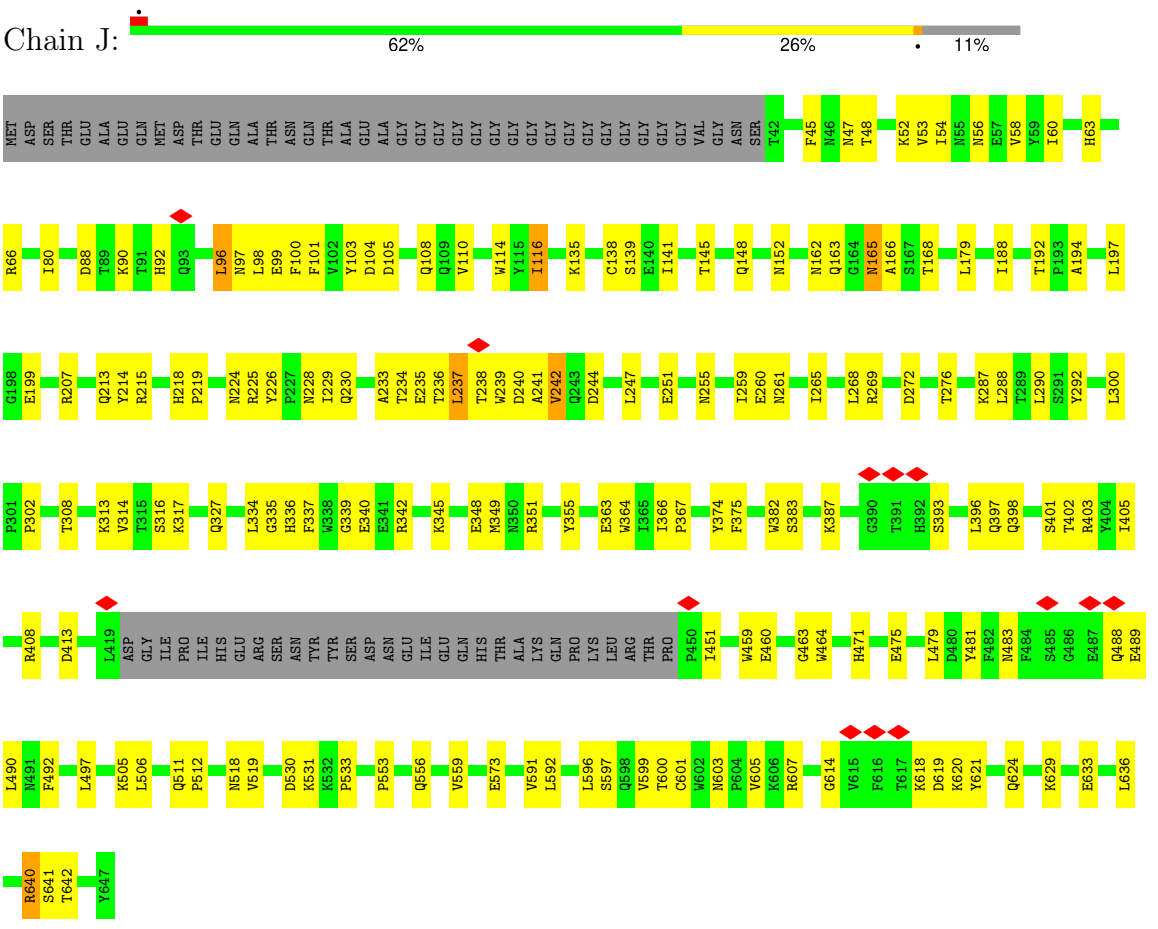
• Molecule 1: Capsid protein VP1

Chain I:



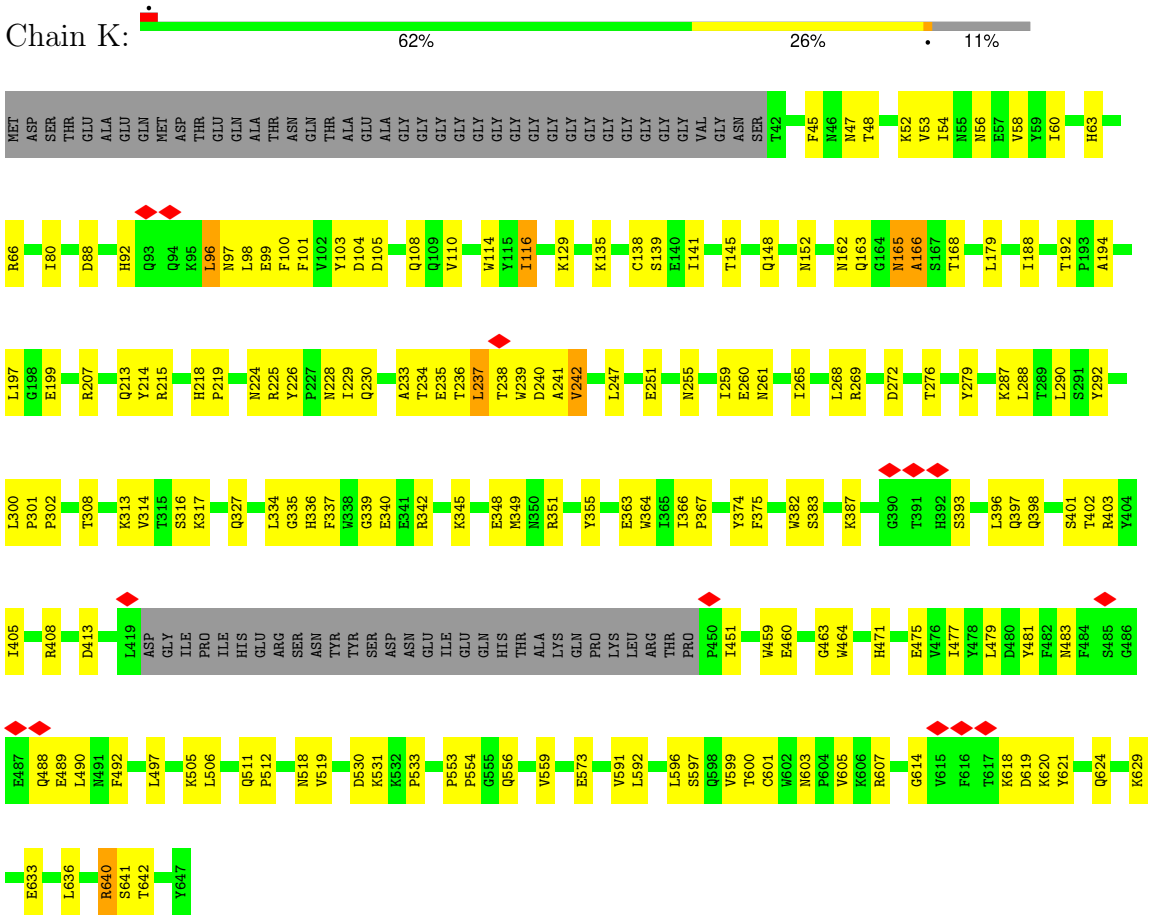
• Molecule 1: Capsid protein VP1

Chain J:



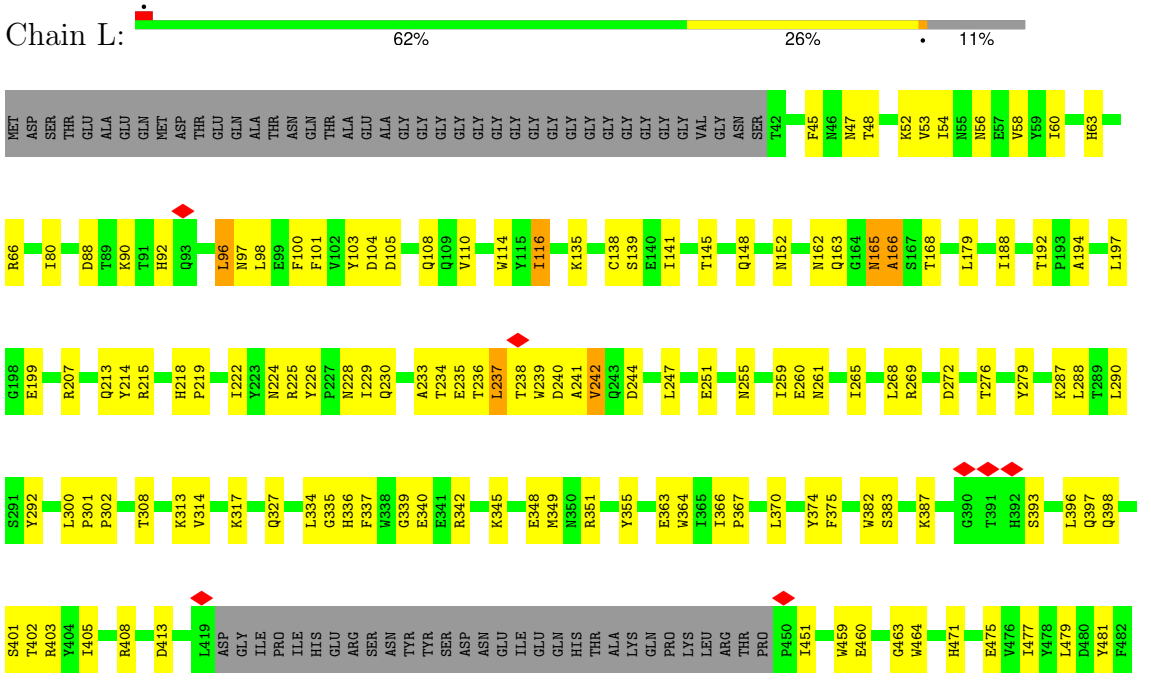
• Molecule 1: Capsid protein VP1

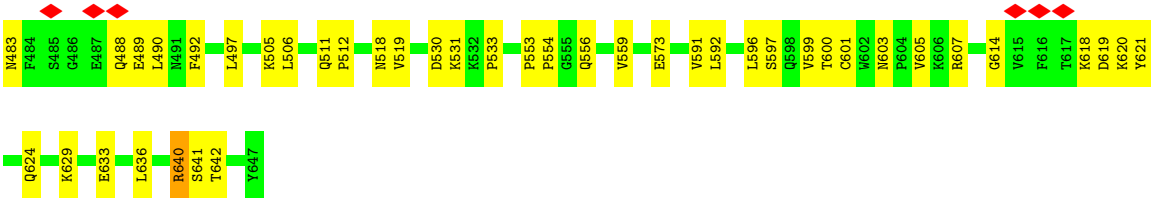
Chain K:



• Molecule 1: Capsid protein VP1

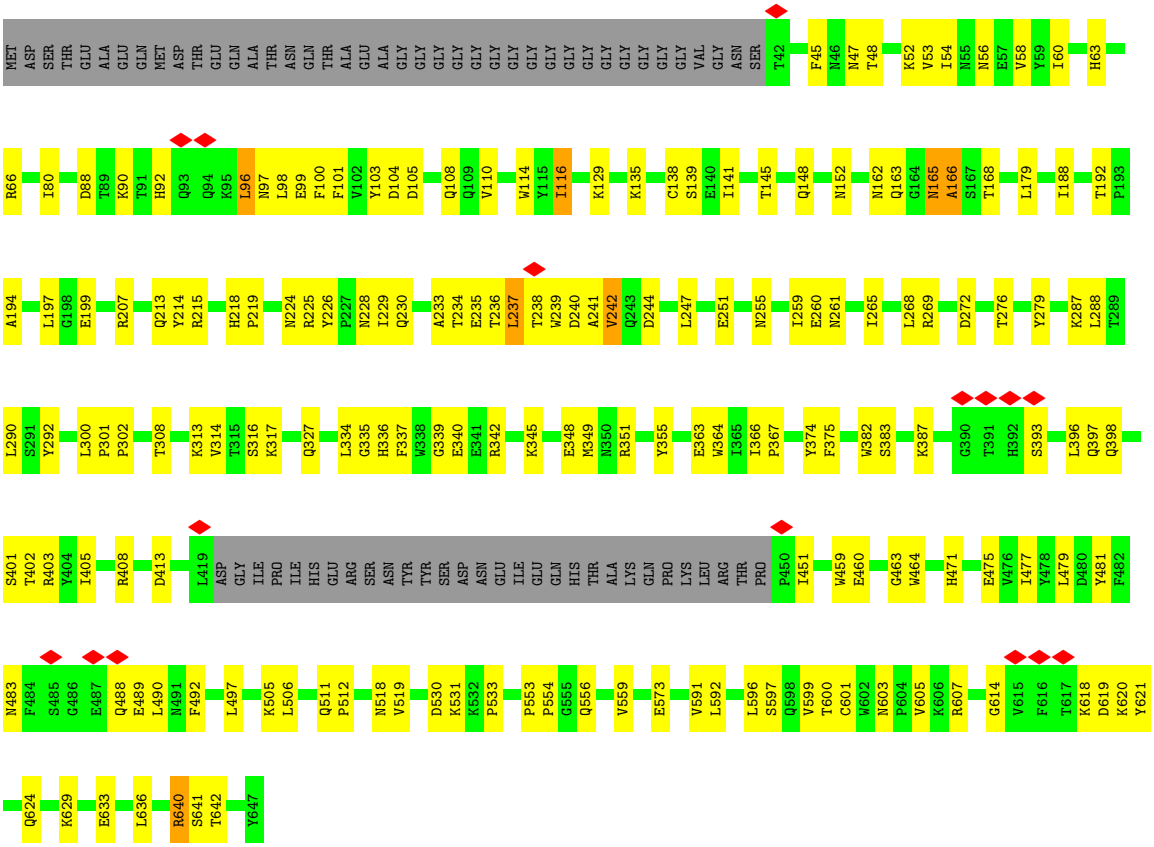
Chain L:





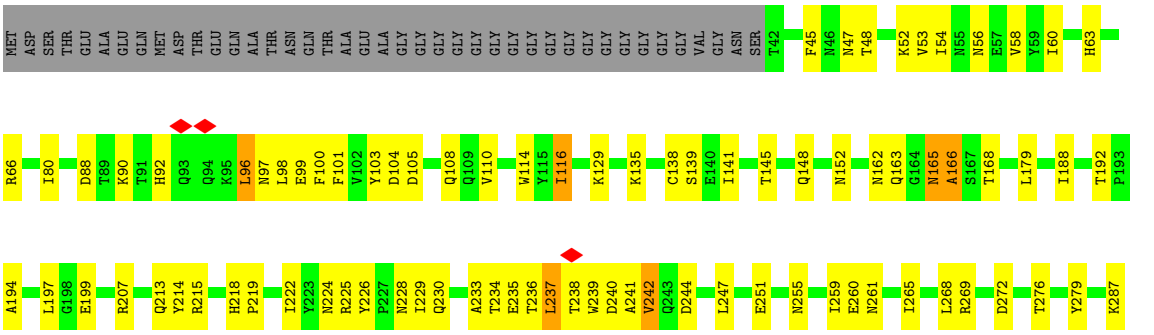
• Molecule 1: Capsid protein VP1

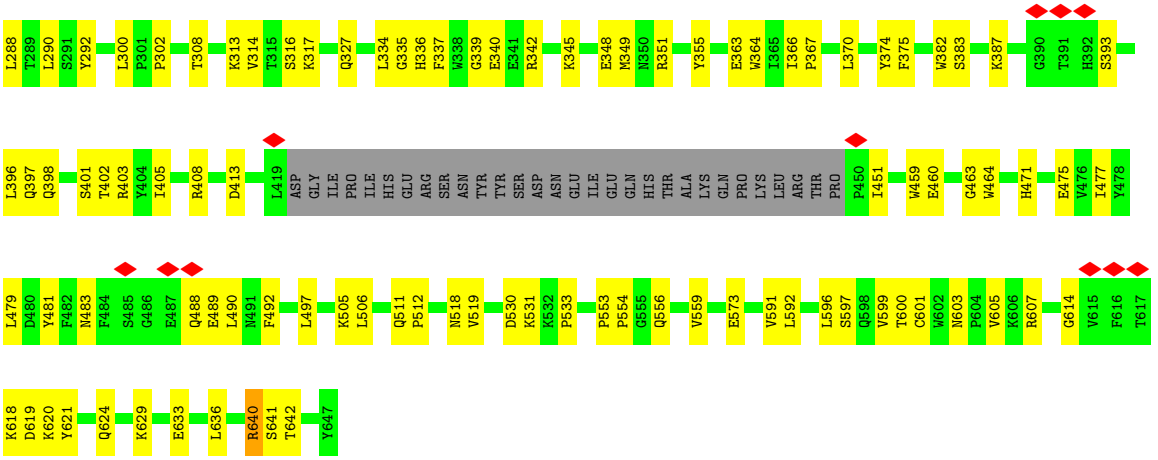
Chain M:



• Molecule 1: Capsid protein VP1

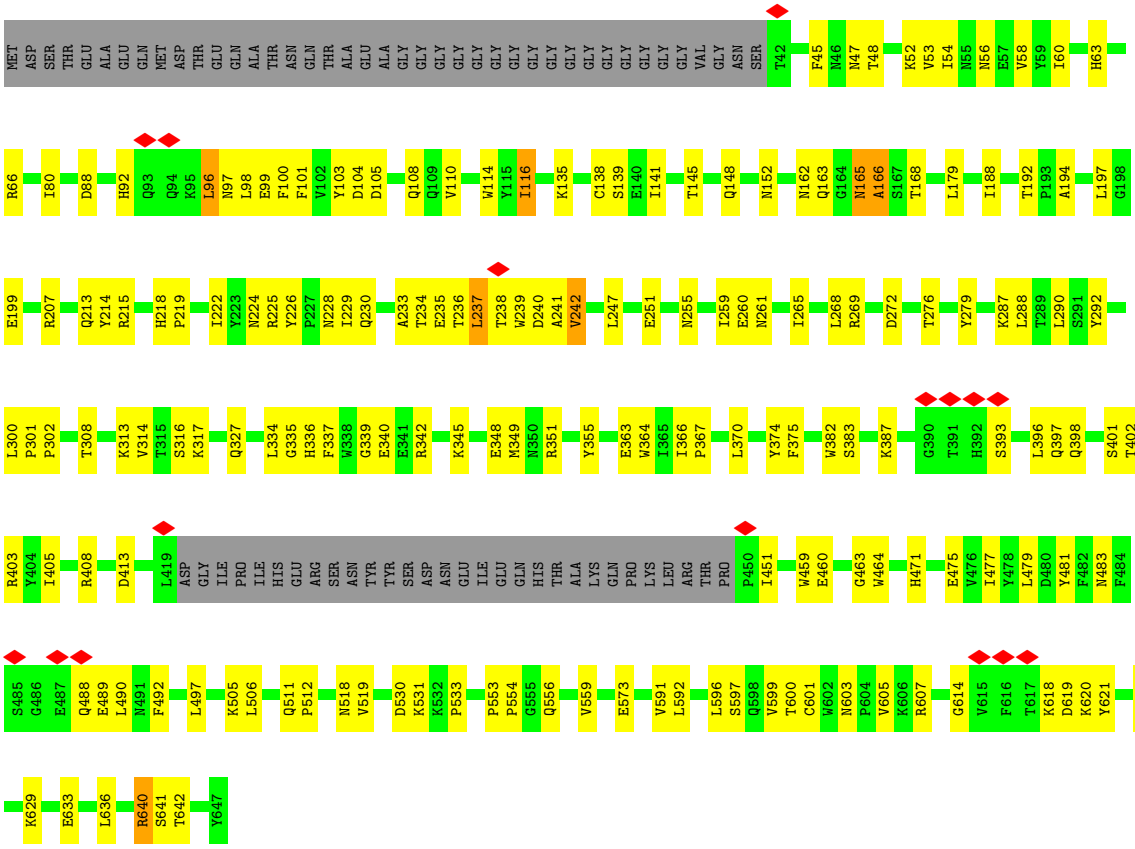
Chain N:





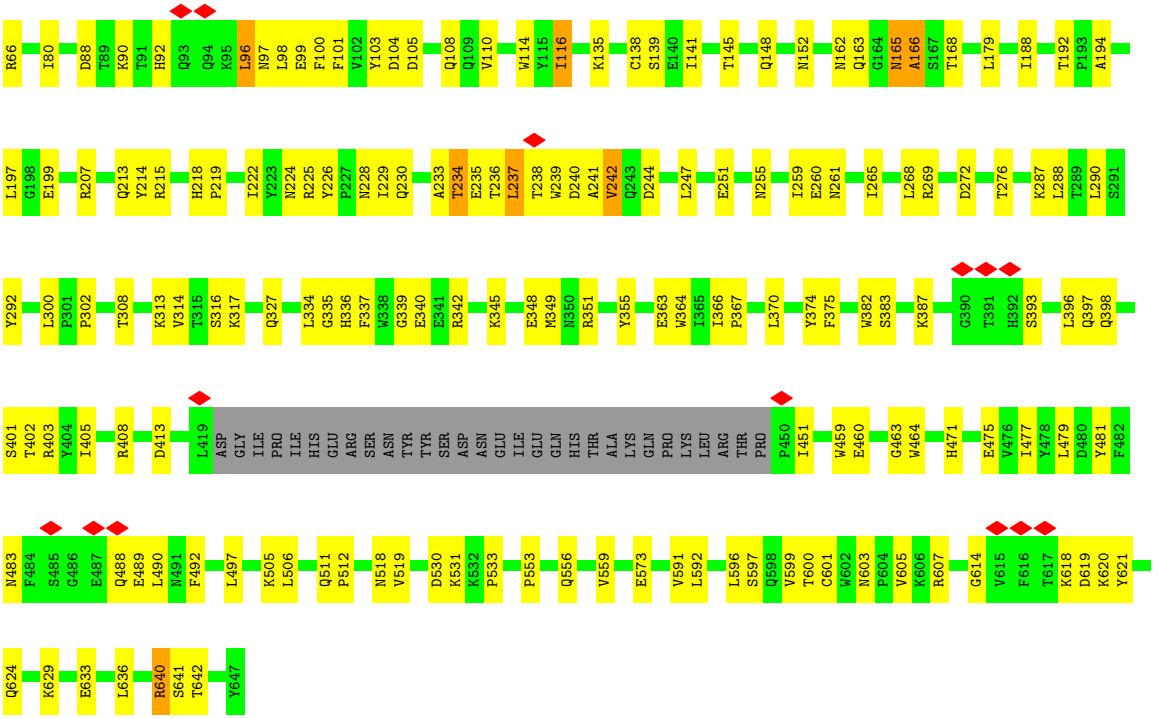
• Molecule 1: Capsid protein VP1

Chain O:

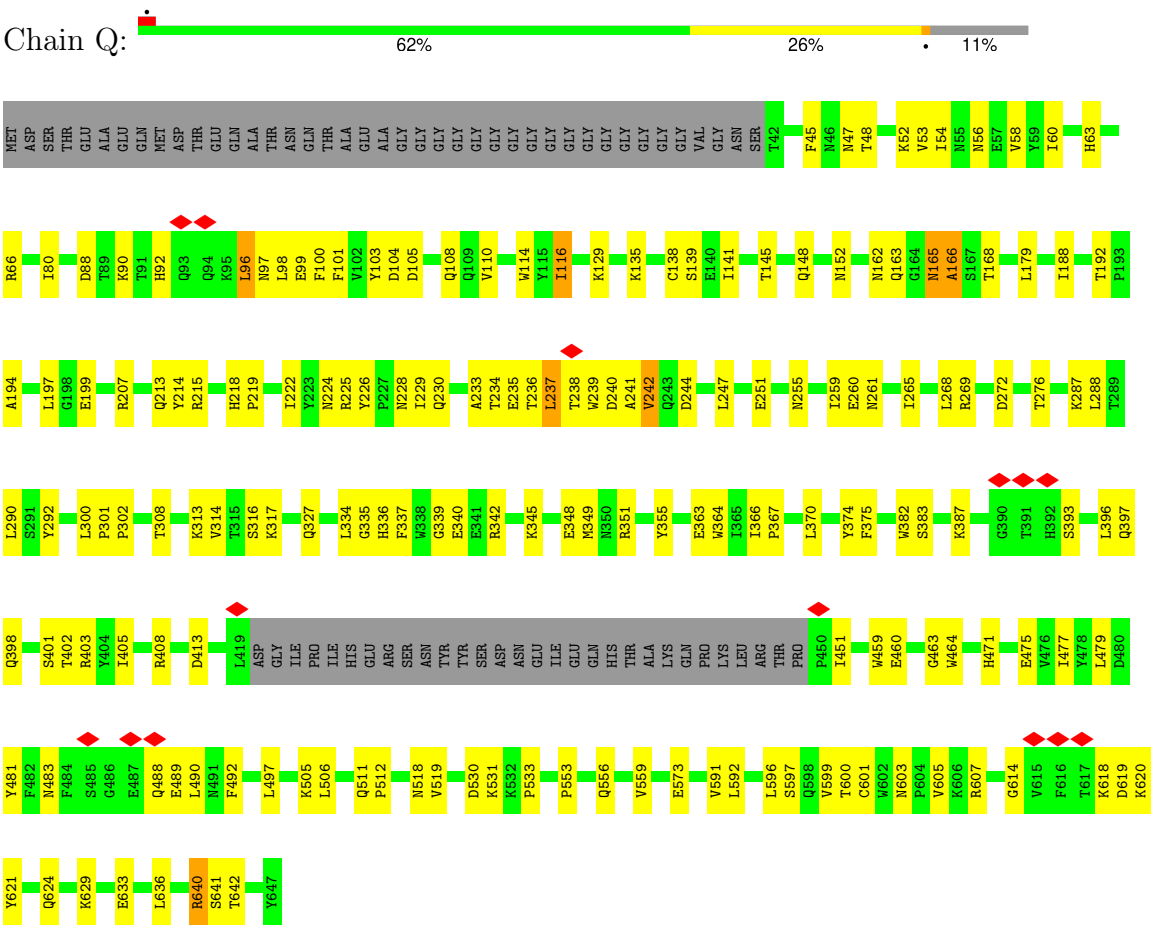


• Molecule 1: Capsid protein VP1

Chain P:

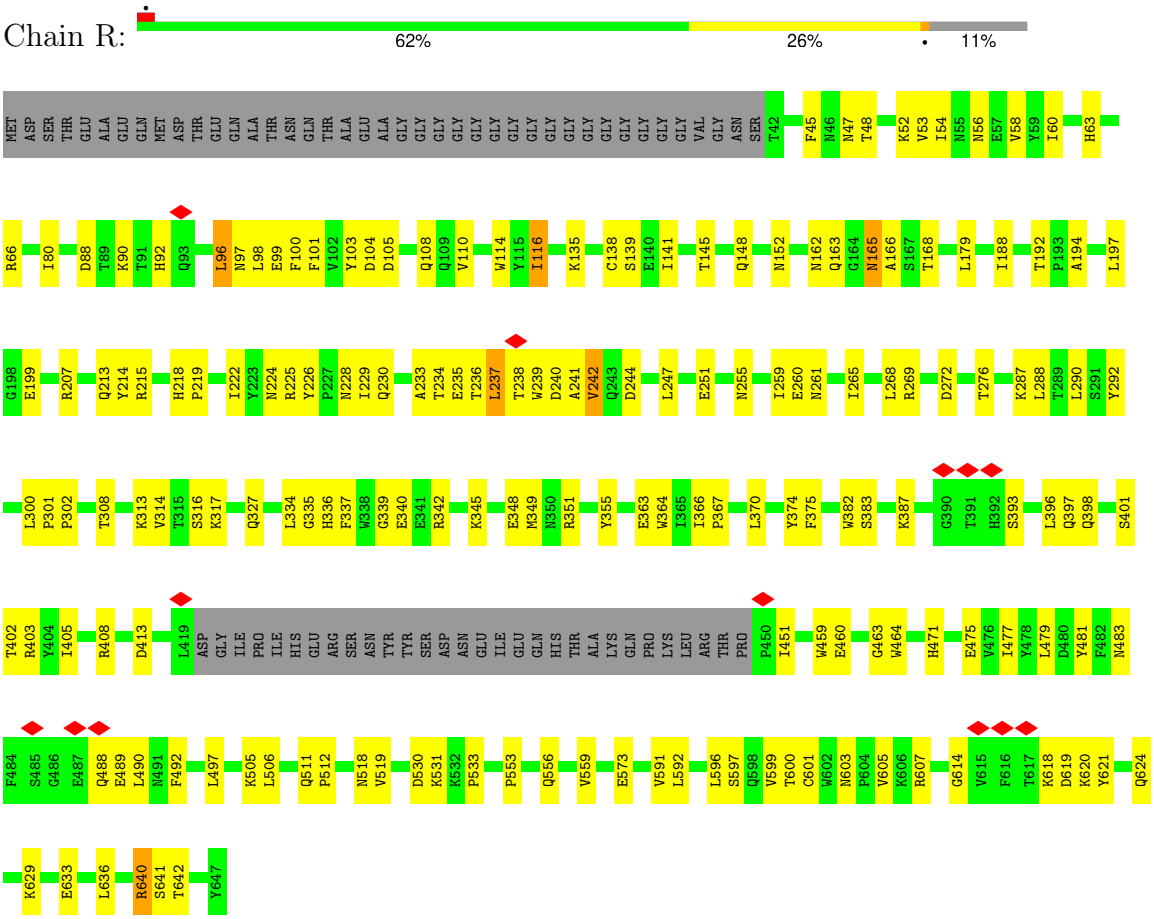


- Molecule 1: Capsid protein VP1



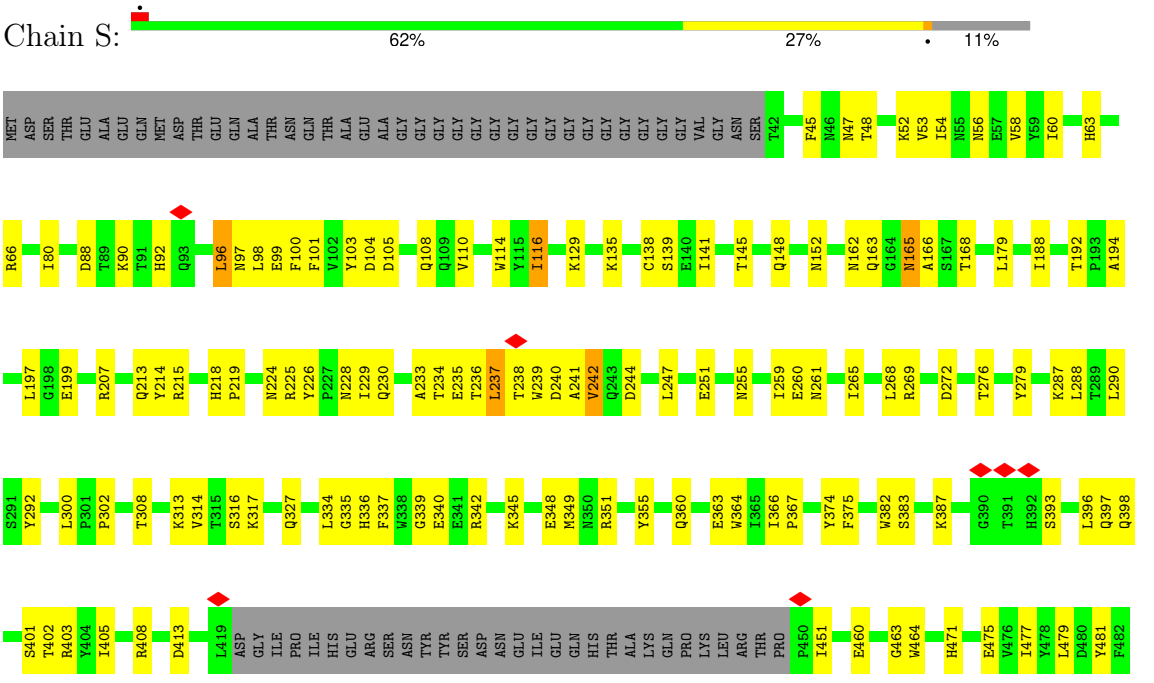
• Molecule 1: Capsid protein VP1

Chain R:



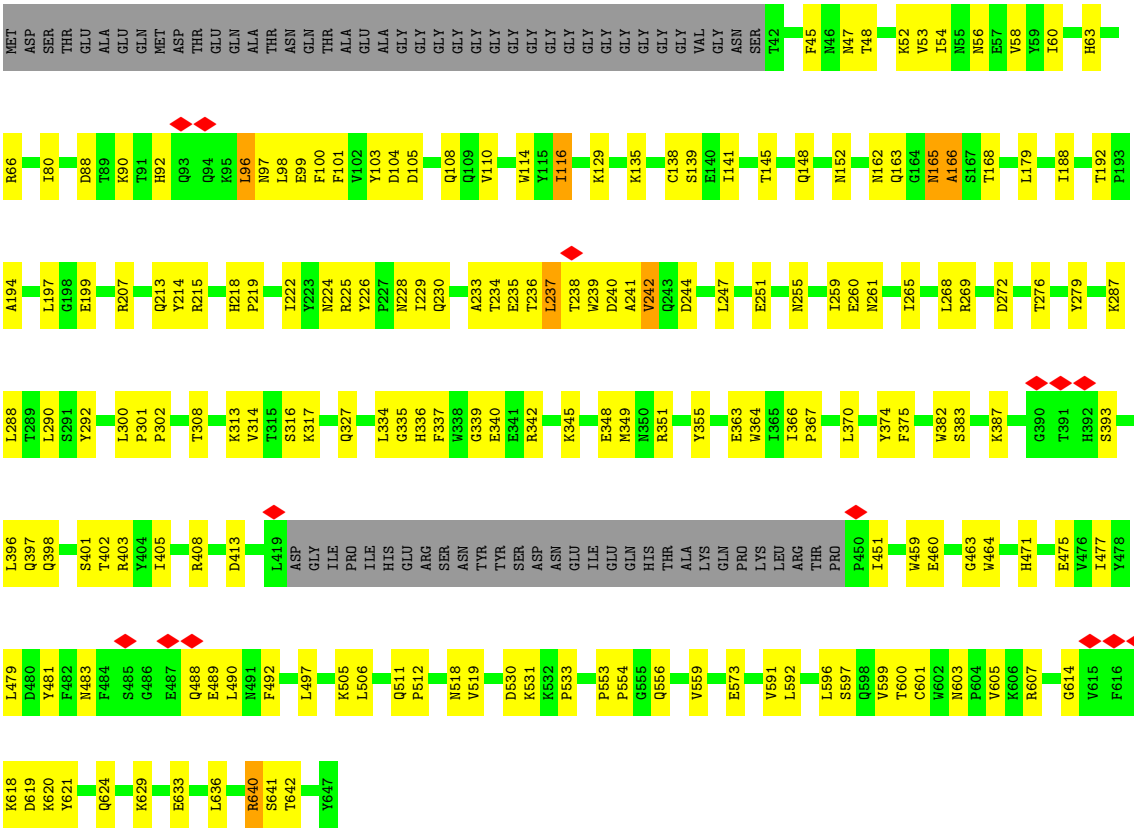
• Molecule 1: Capsid protein VP1

Chain S:



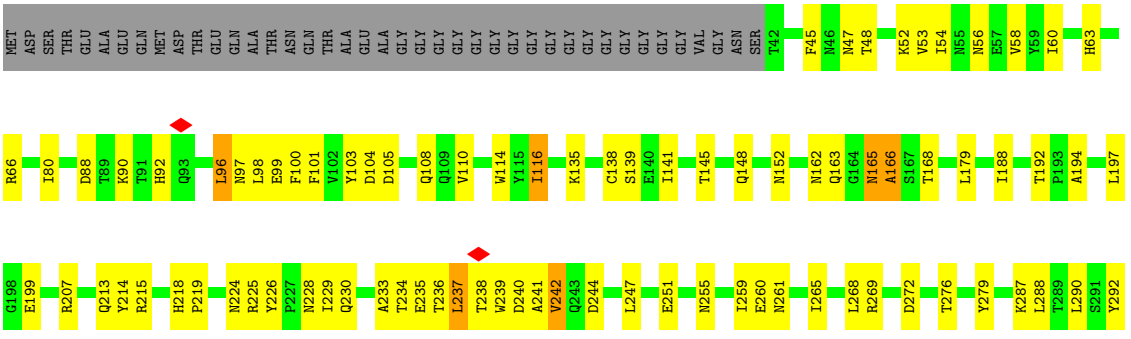
• Molecule 1: Capsid protein VP1

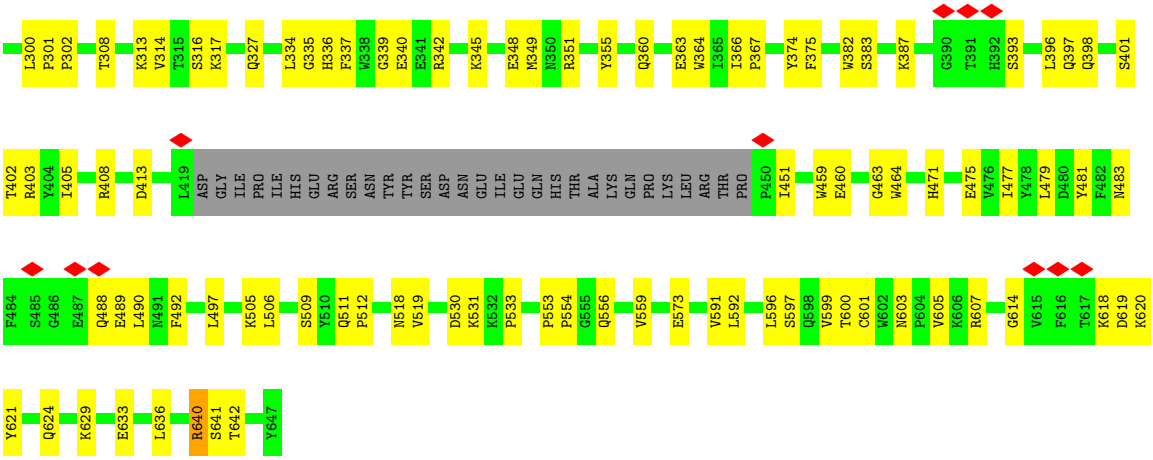
Chain T:



• Molecule 1: Capsid protein VP1

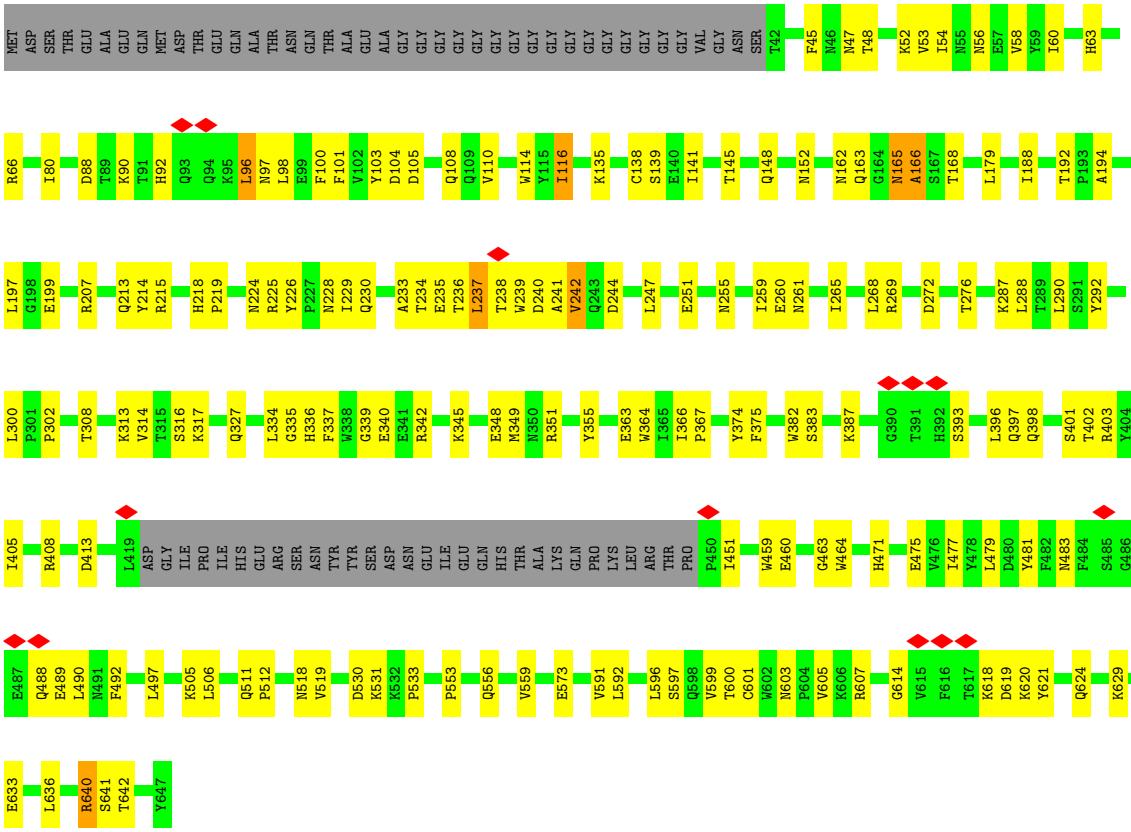
Chain U:





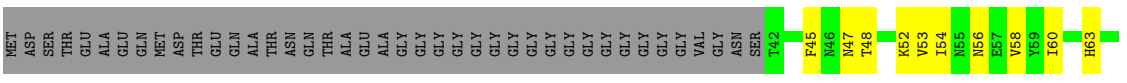
• Molecule 1: Capsid protein VP1

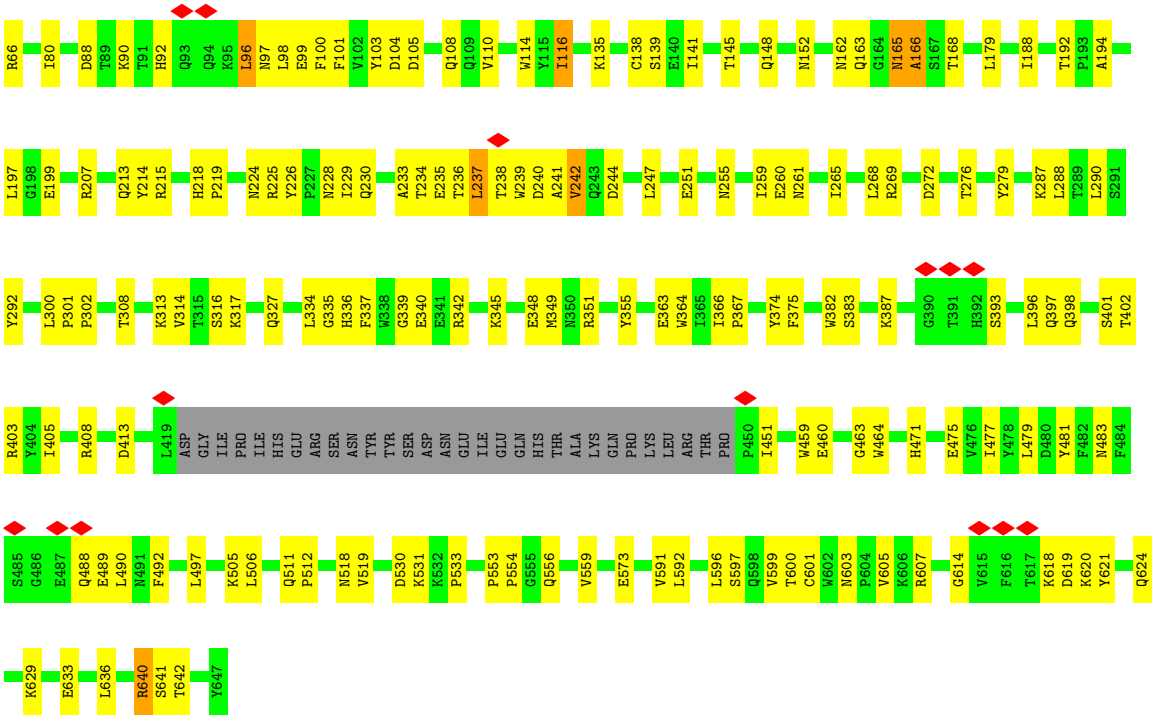
Chain V:



• Molecule 1: Capsid protein VP1

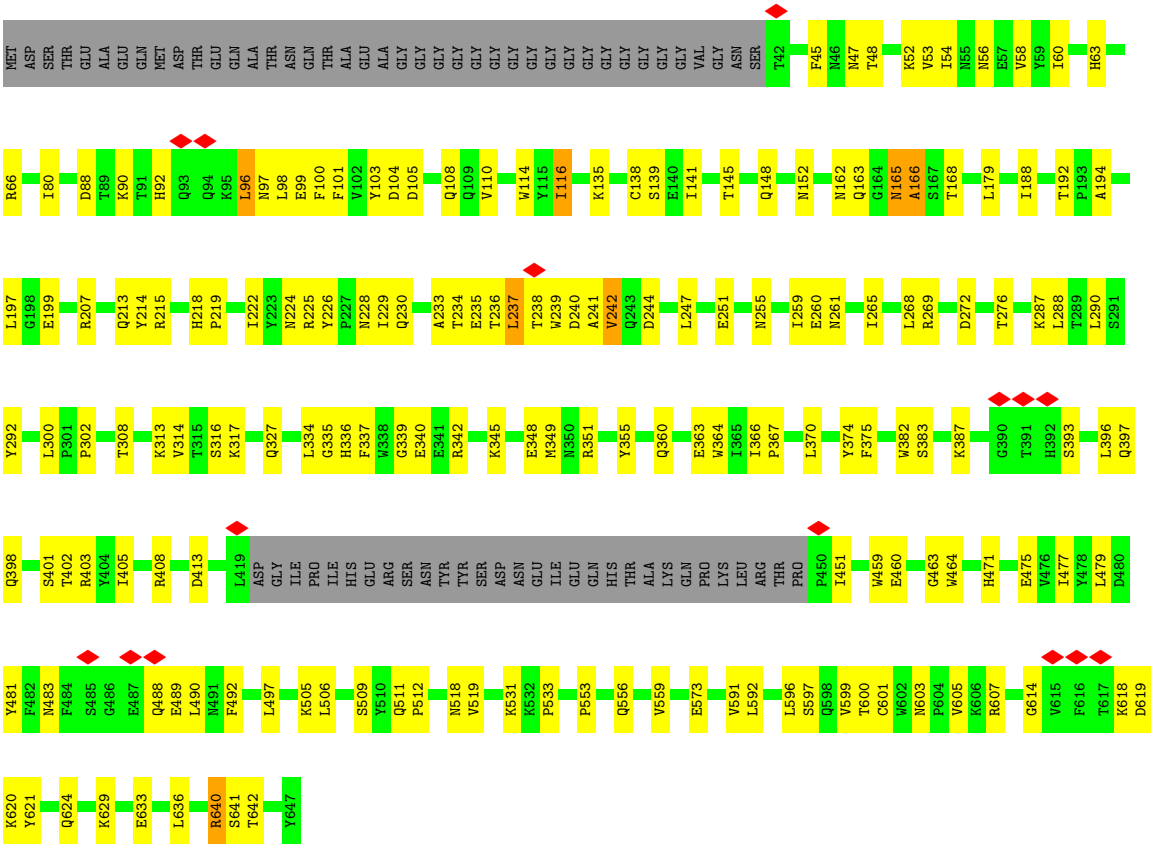
Chain W:





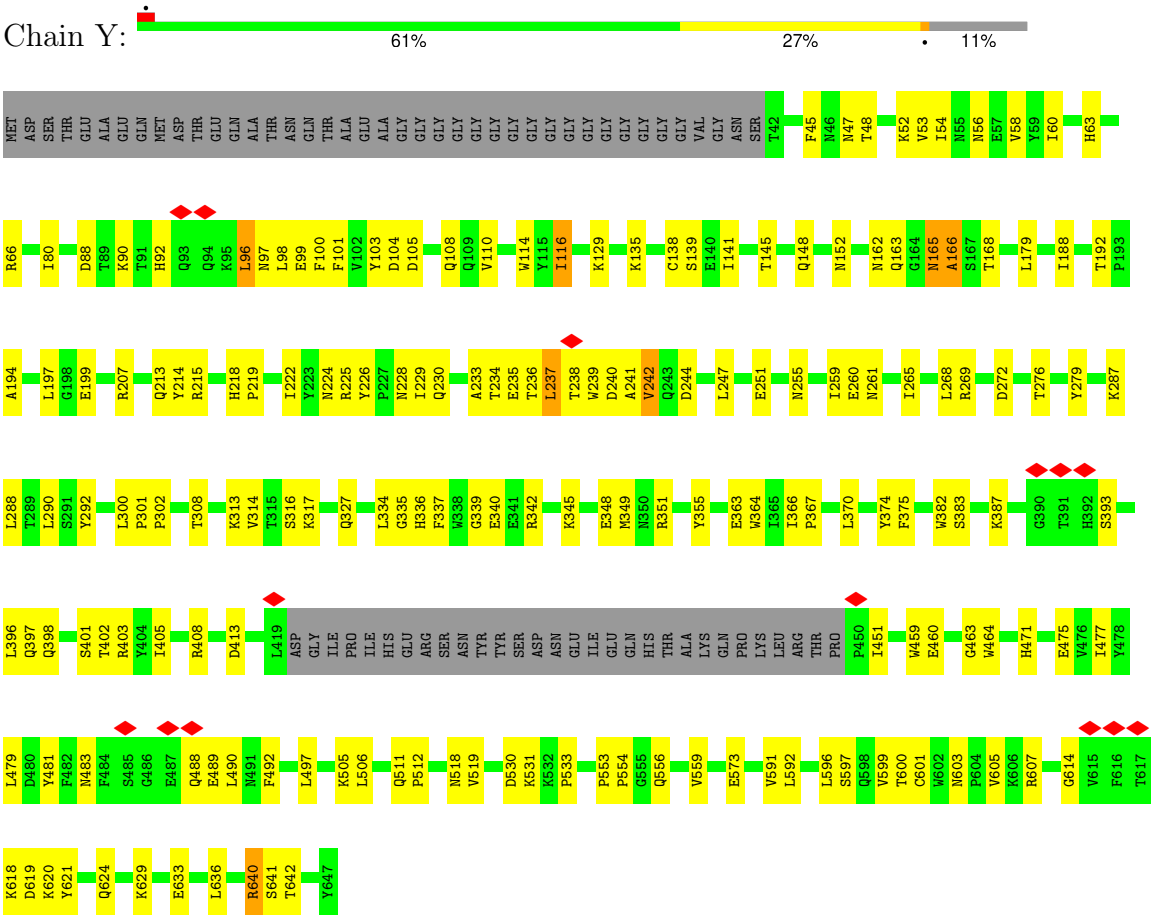
• Molecule 1: Capsid protein VP1

Chain X:



• Molecule 1: Capsid protein VP1

Chain Y:



• Molecule 1: Capsid protein VP1

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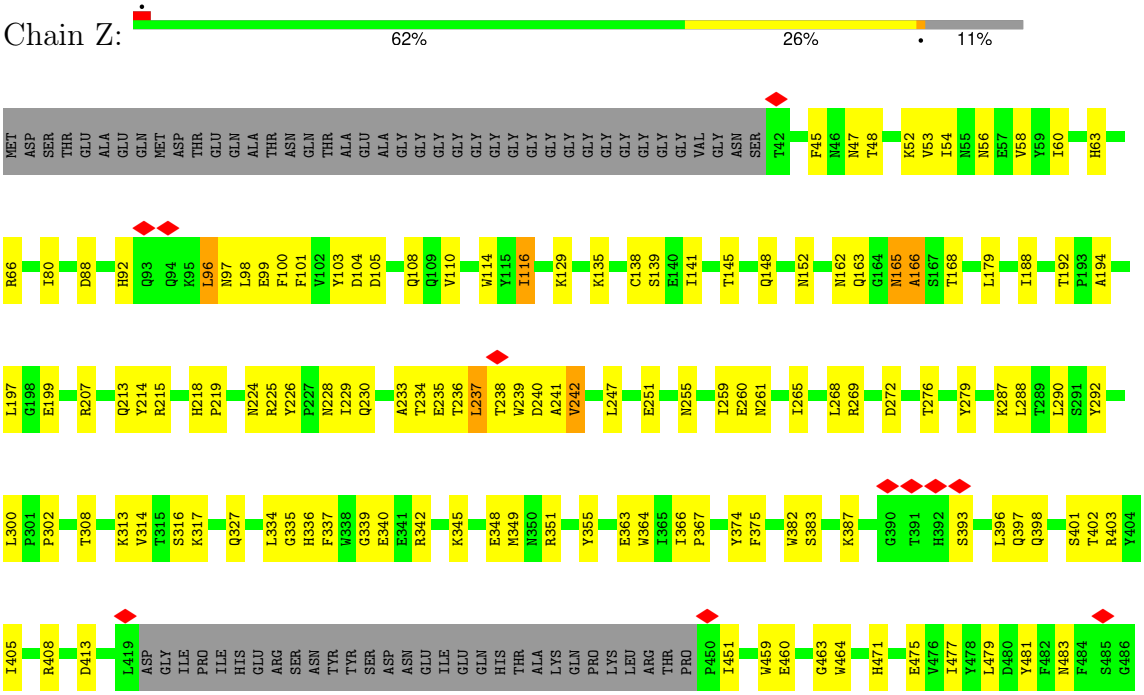

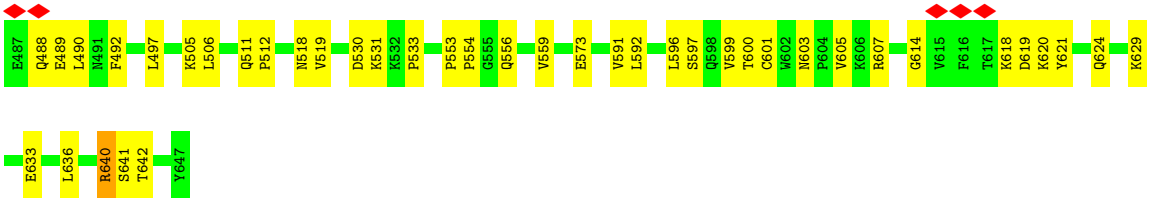

• Molecule 1: Capsid protein VP1

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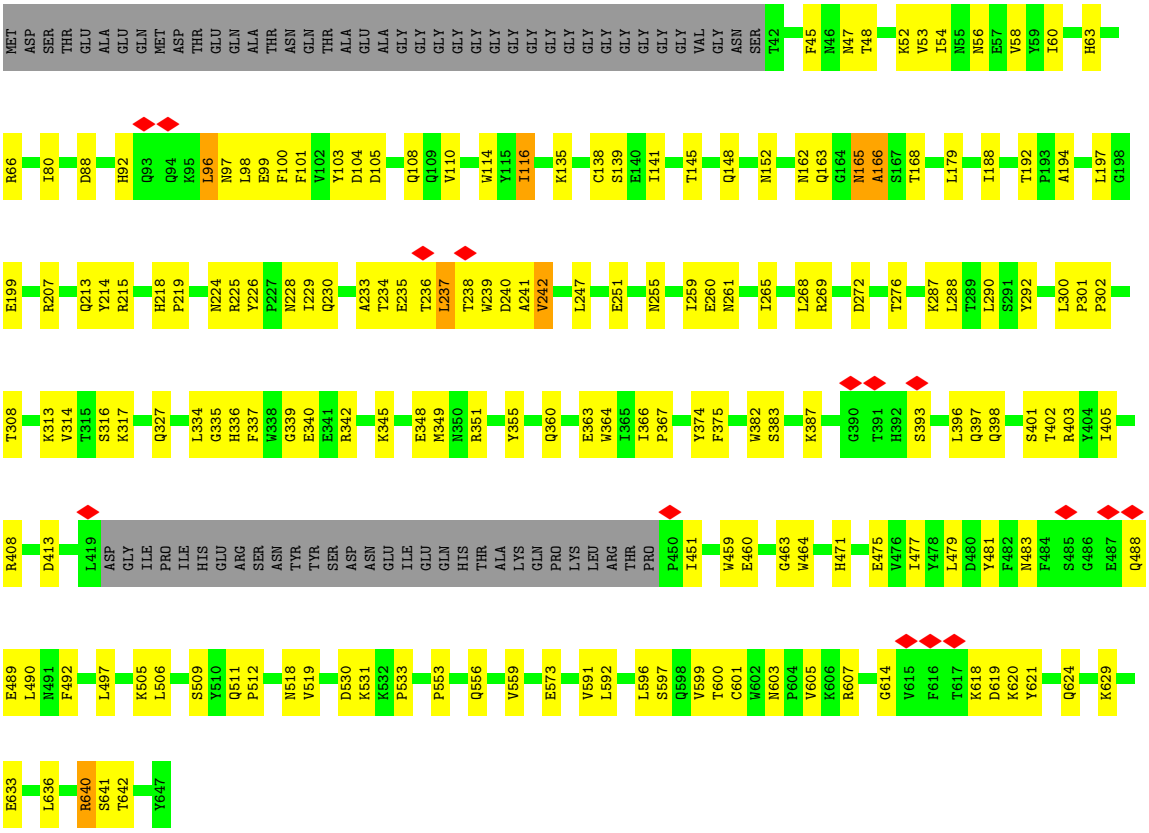

• Molecule 1: Capsid protein VP1

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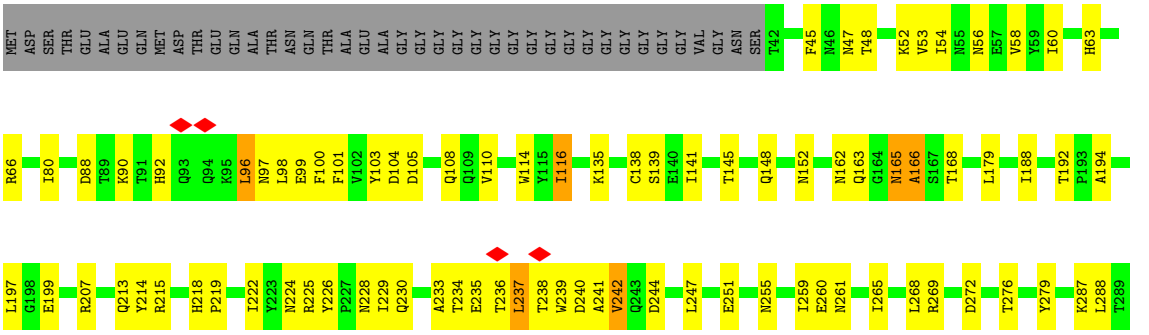
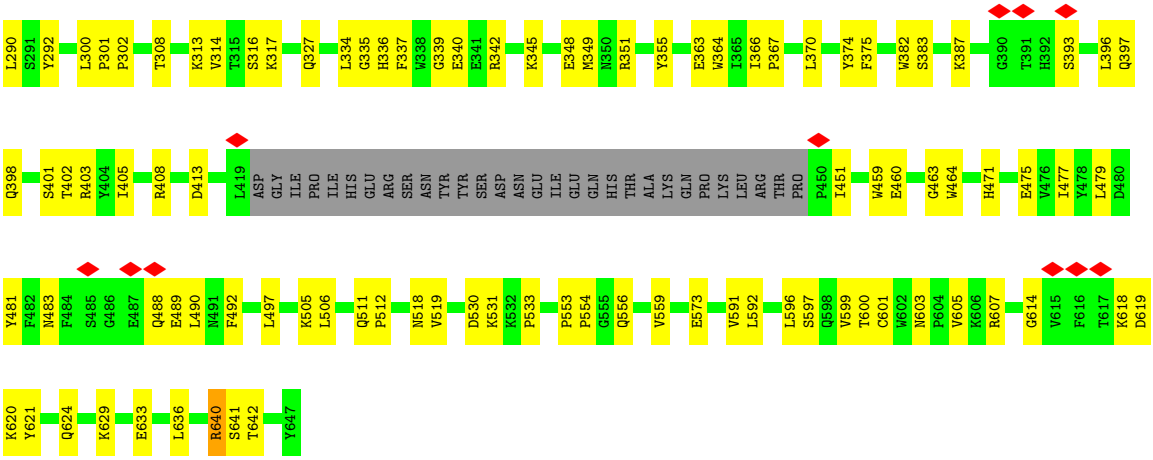
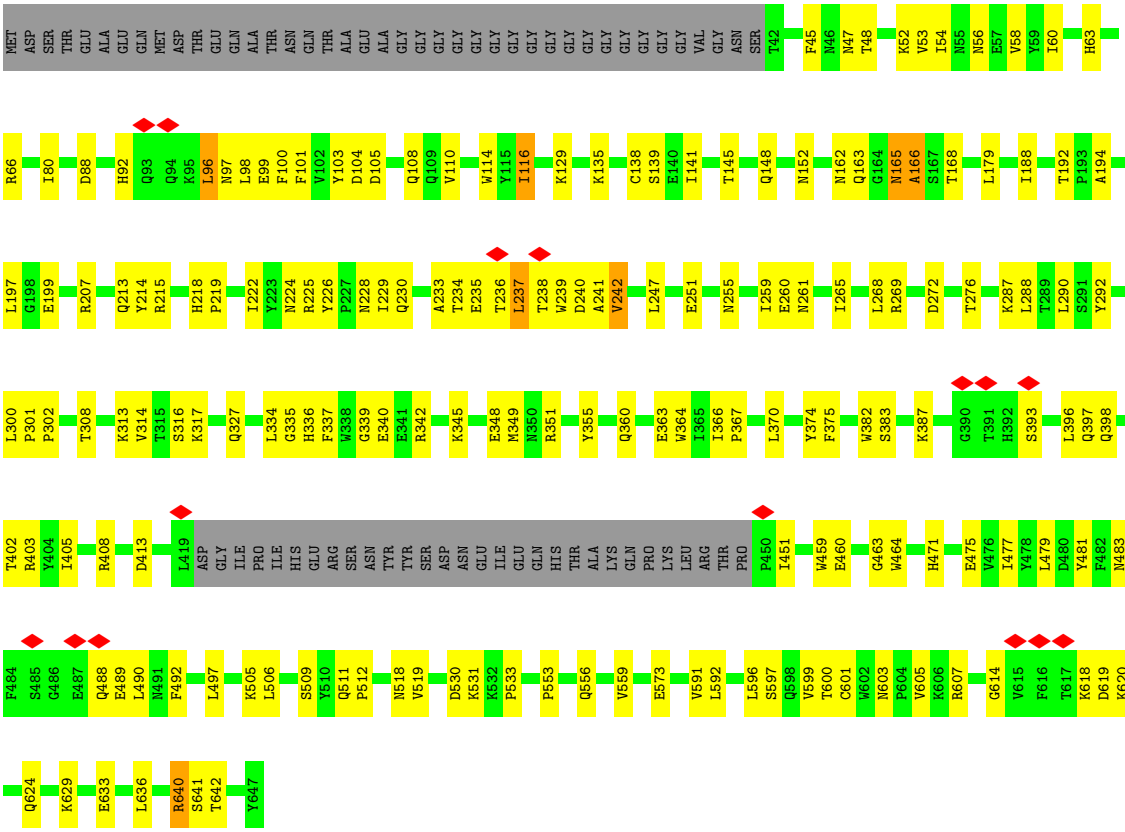




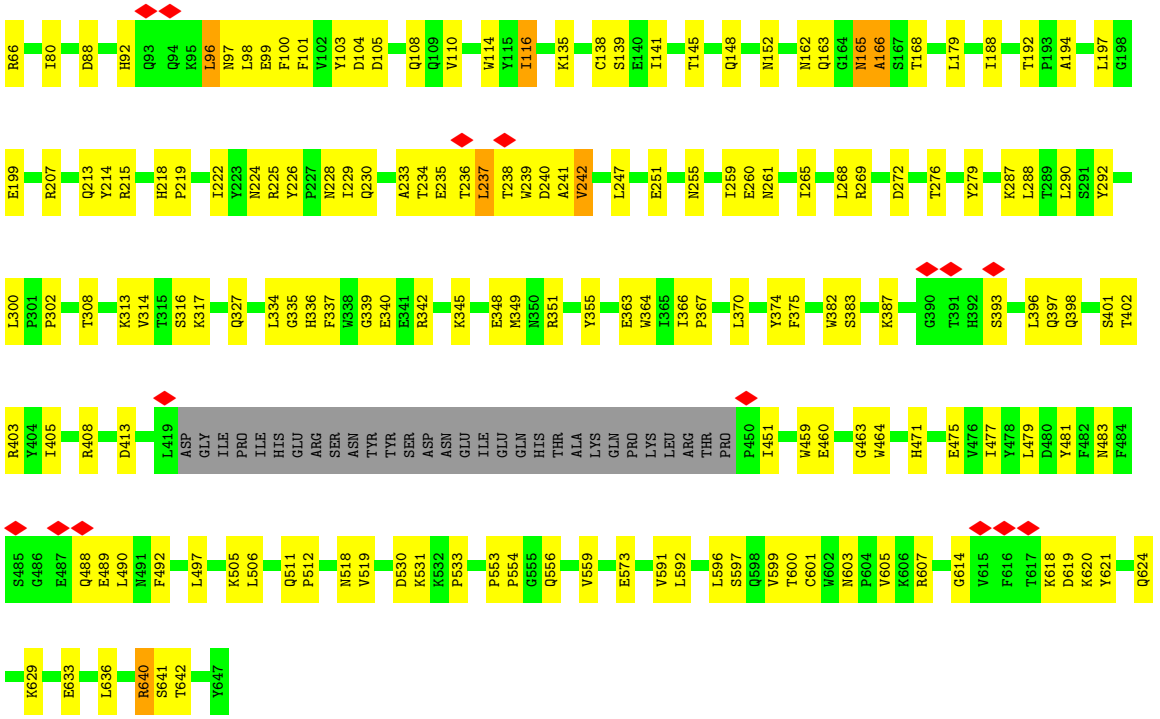
• Molecule 1: Capsid protein VP1

Chain c:



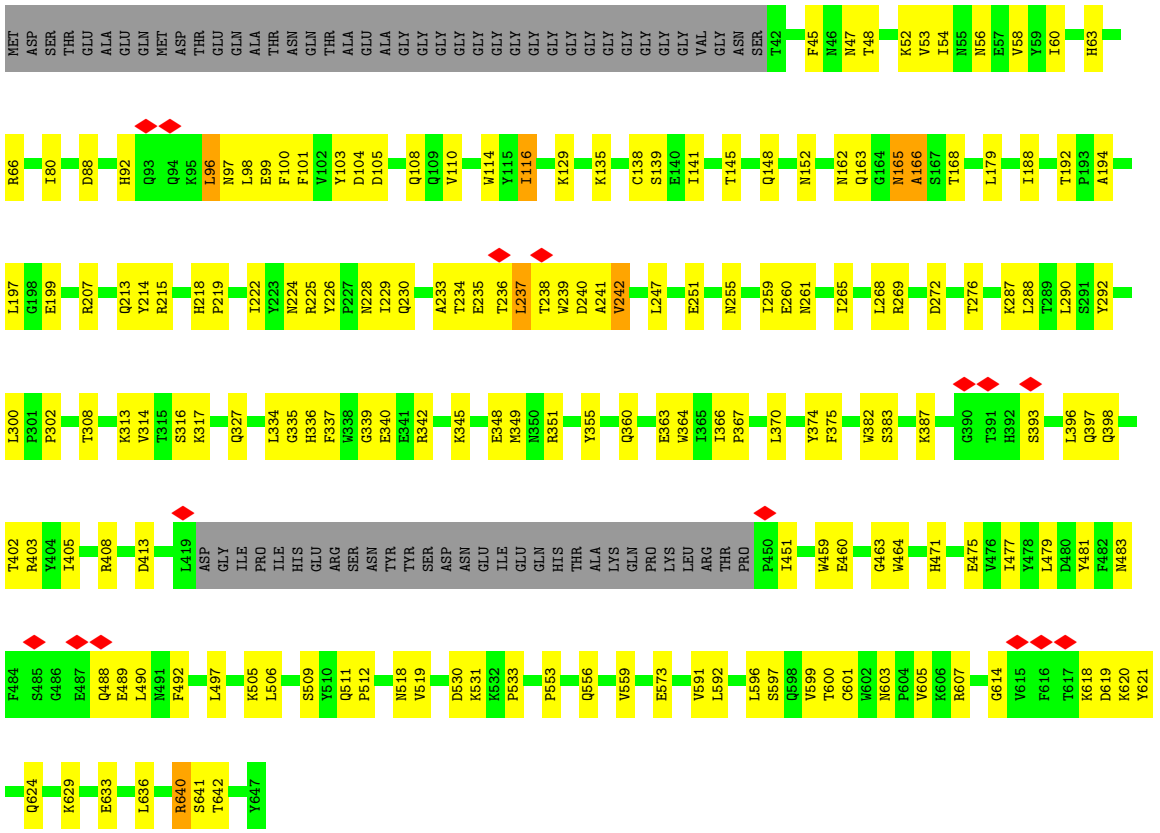
• Molecule 1: Capsid protein VP1

Chain d:



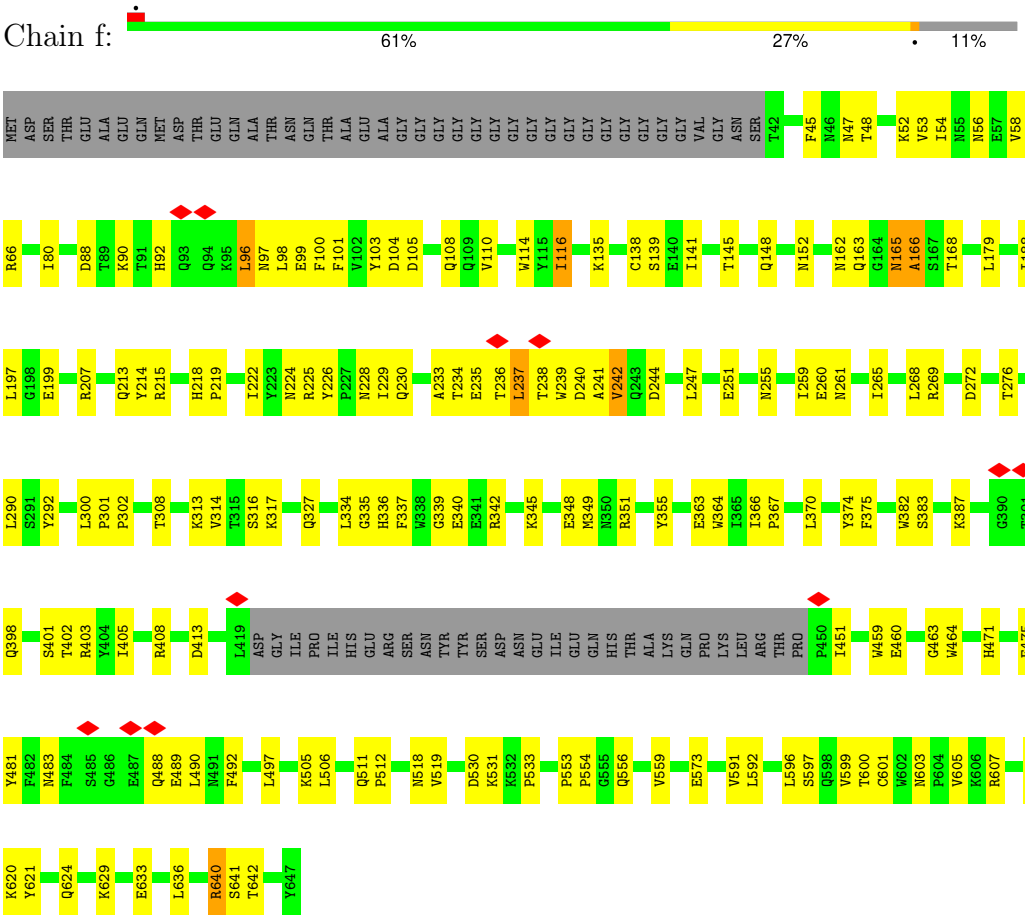
• Molecule 1: Capsid protein VP1

Chain e:



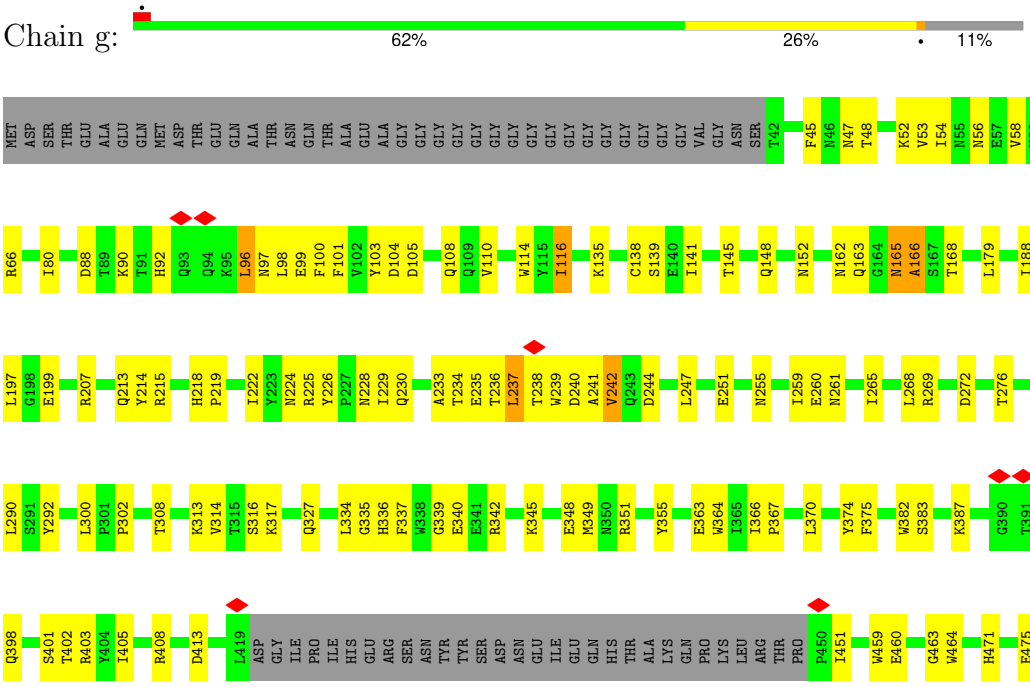
• Molecule 1: Capsid protein VP1

Chain f:



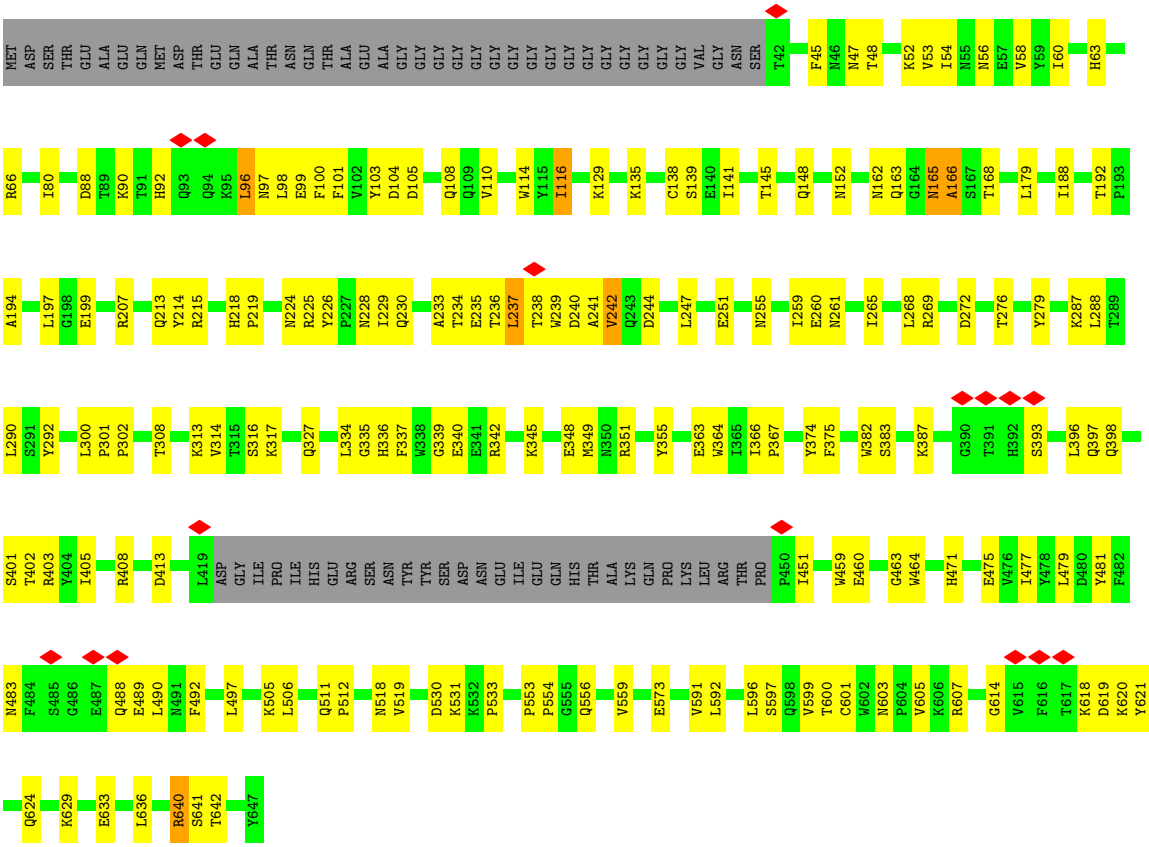
• Molecule 1: Capsid protein VP1

Chain g:



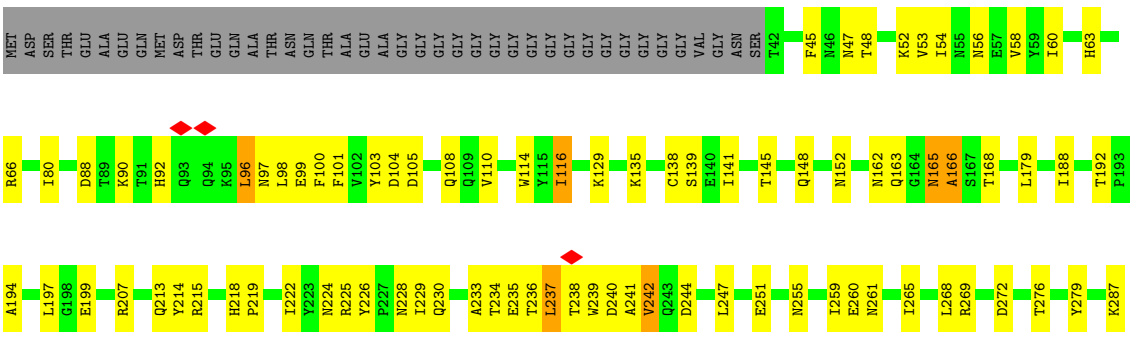
• Molecule 1: Capsid protein VP1

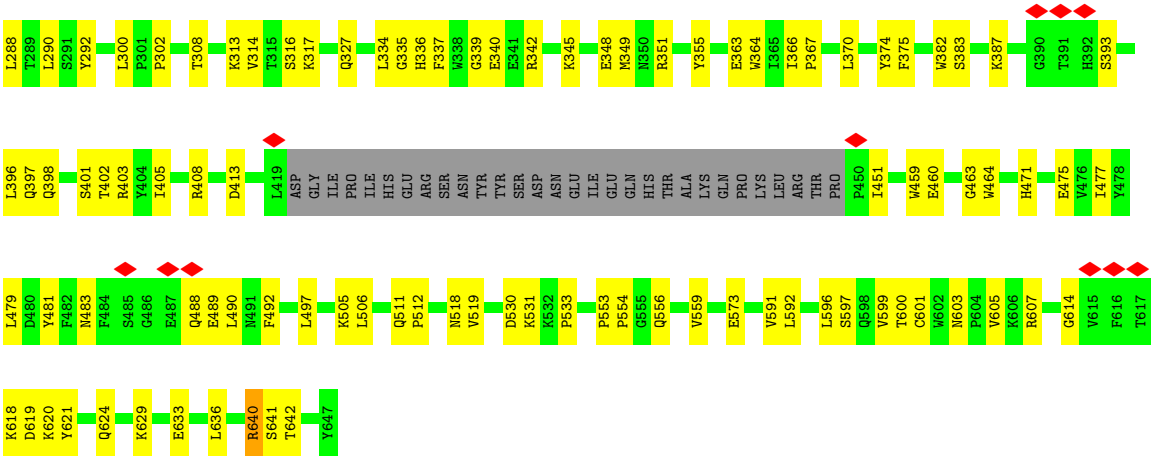
Chain h:



• Molecule 1: Capsid protein VP1

Chain i:





• Molecule 1: Capsid protein VP1

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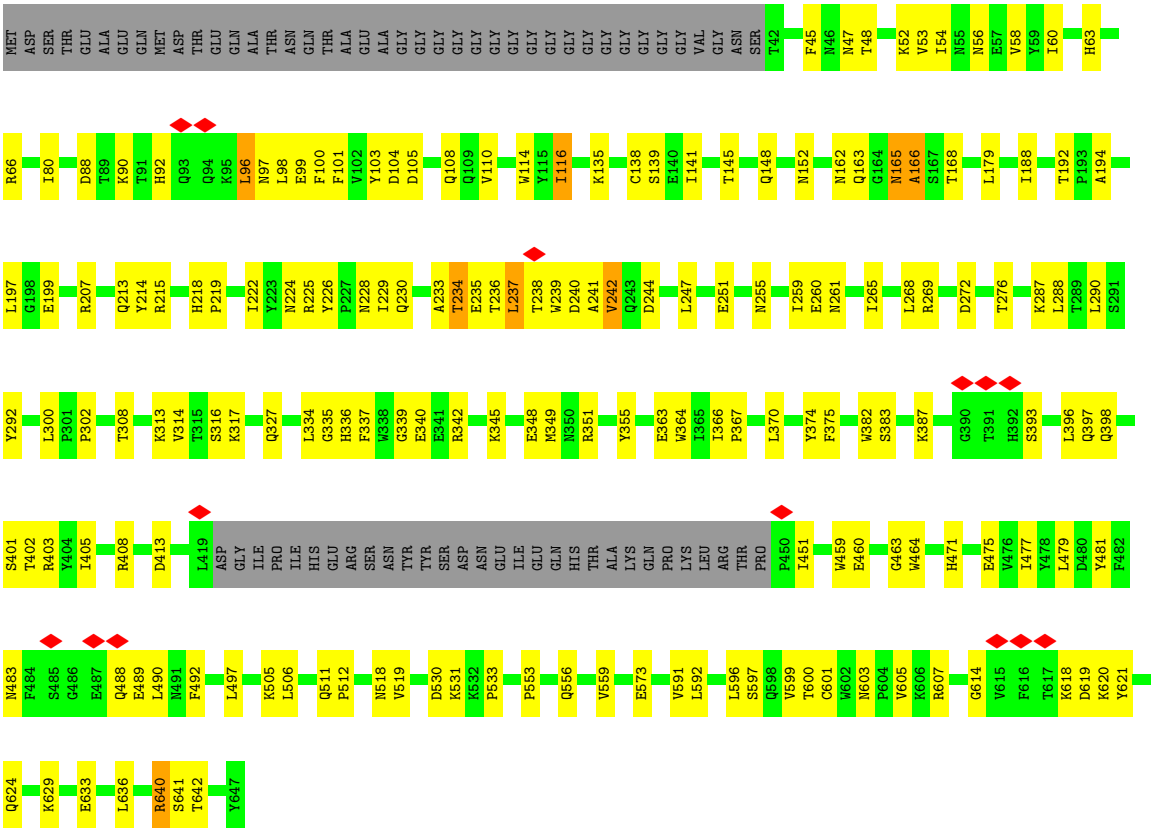
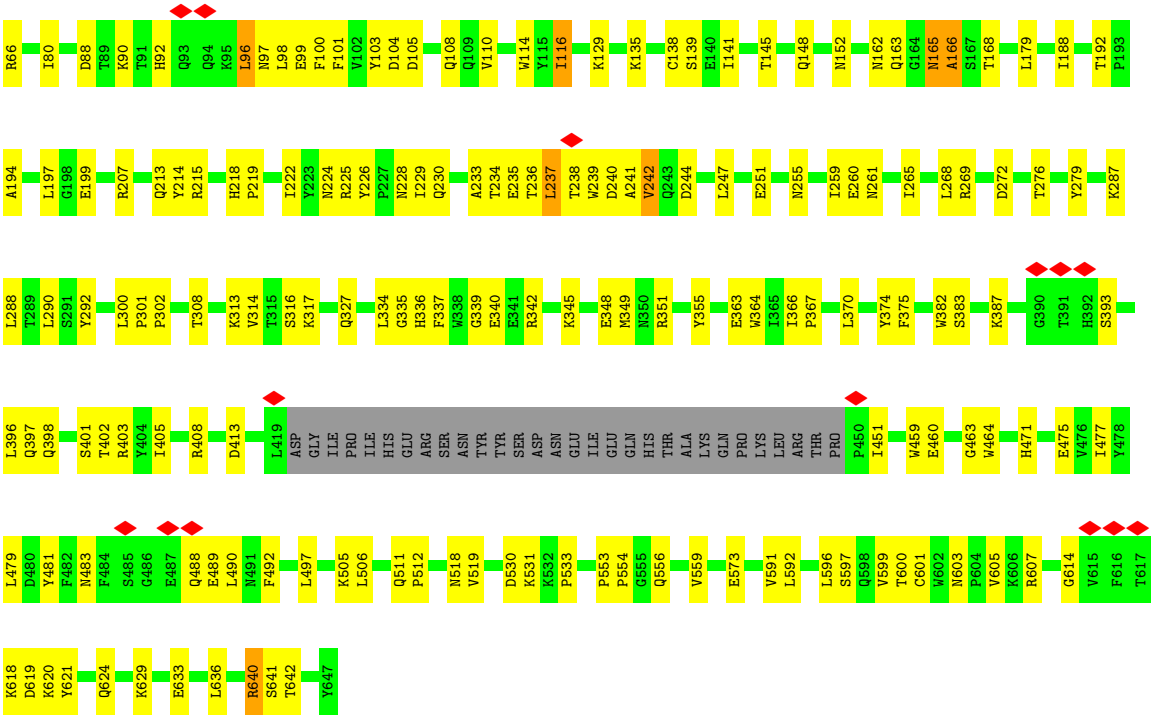
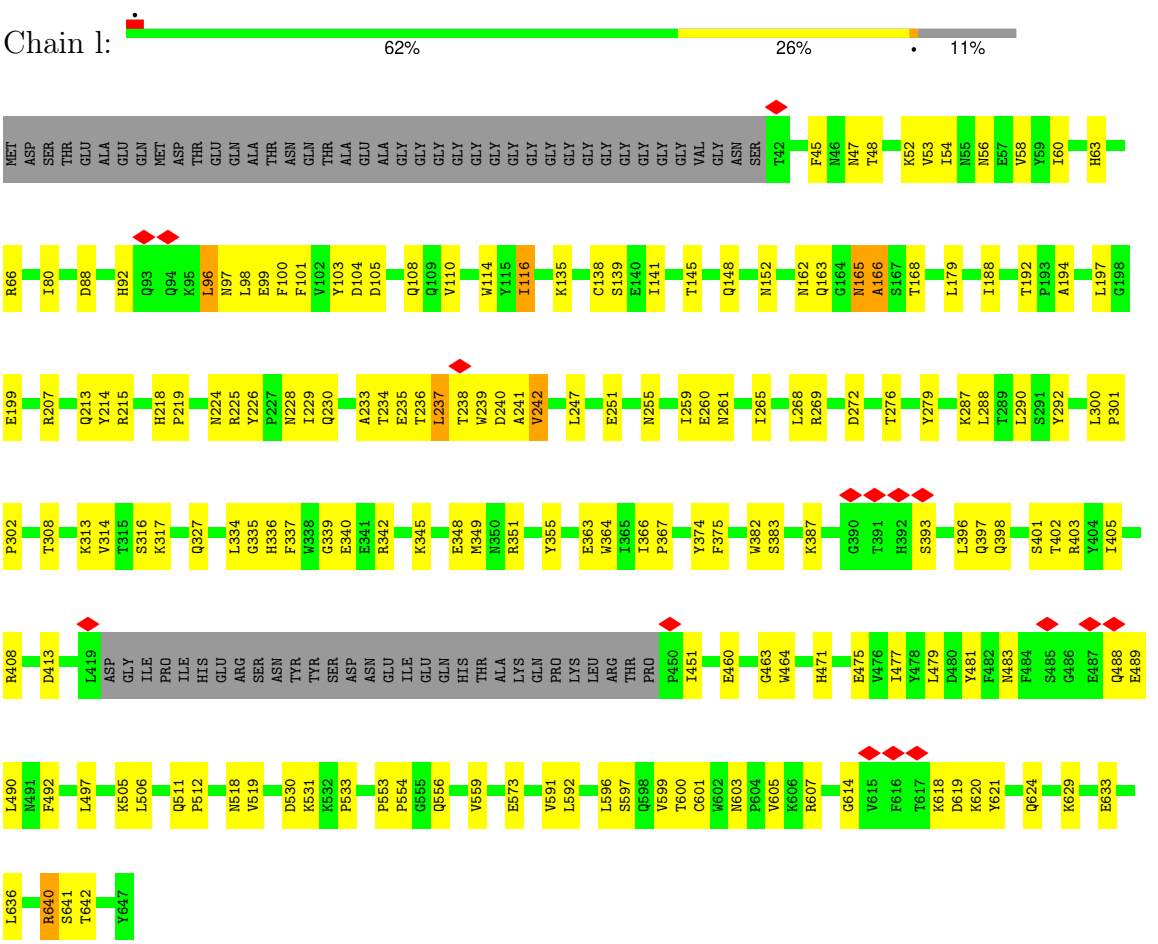


• Molecule 1: Capsid protein VP1

Chain k:

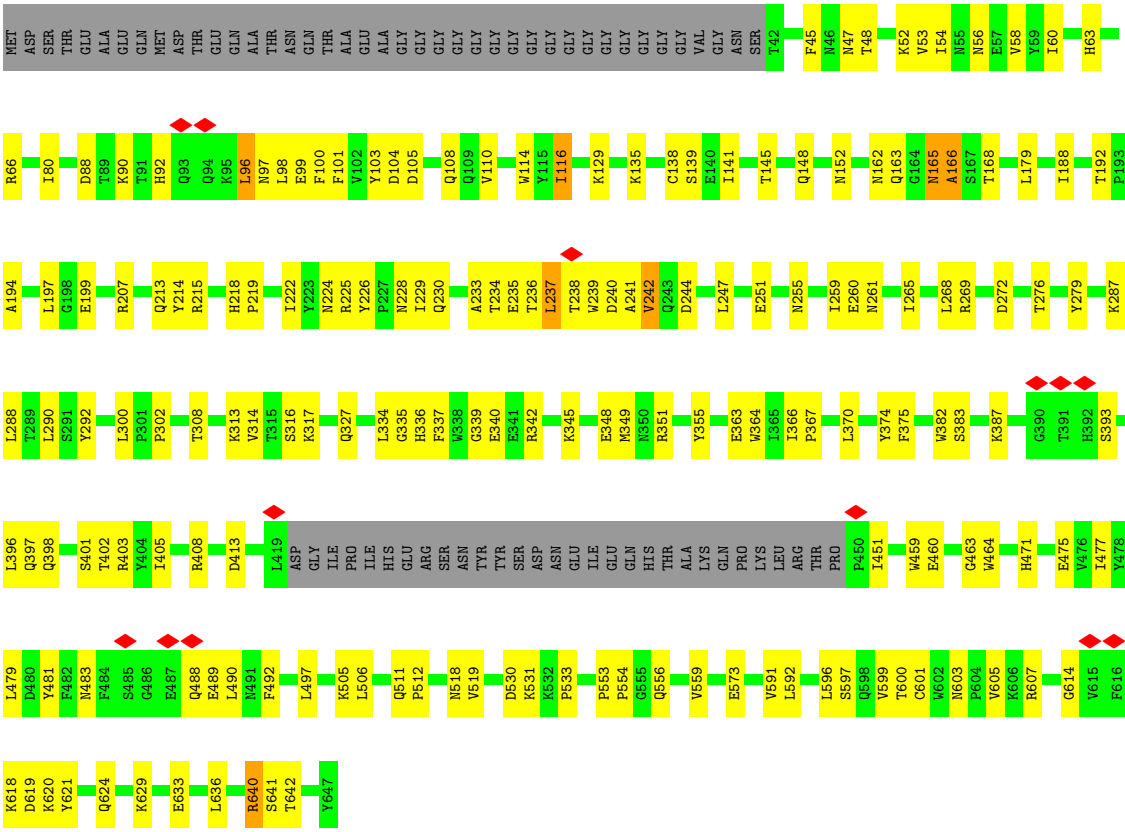


• Molecule 1: Capsid protein VP1



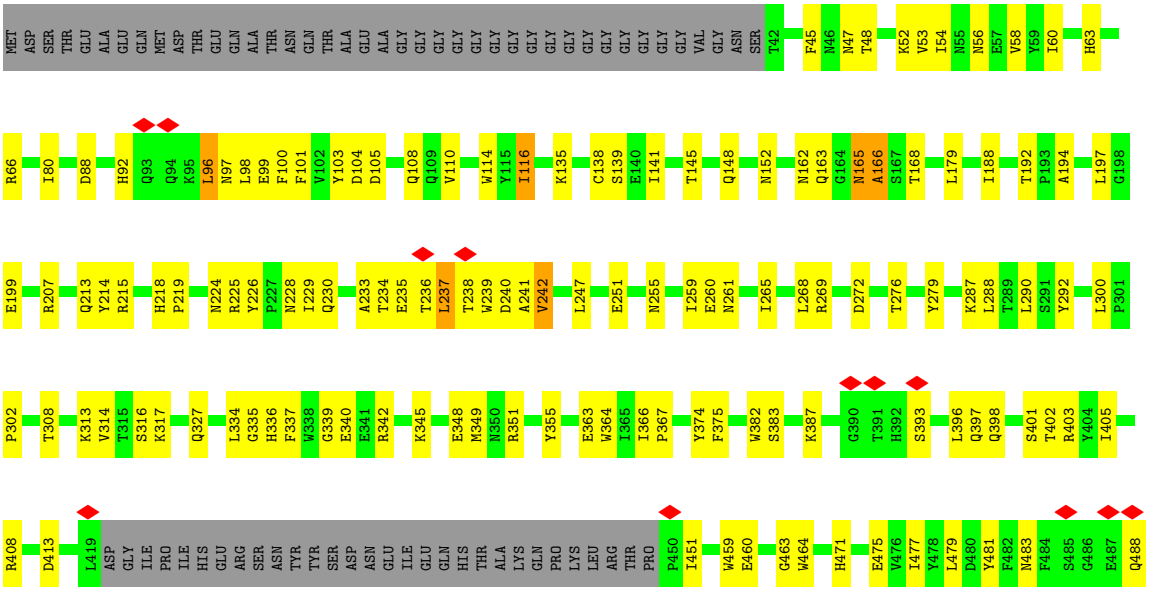
• Molecule 1: Capsid protein VP1

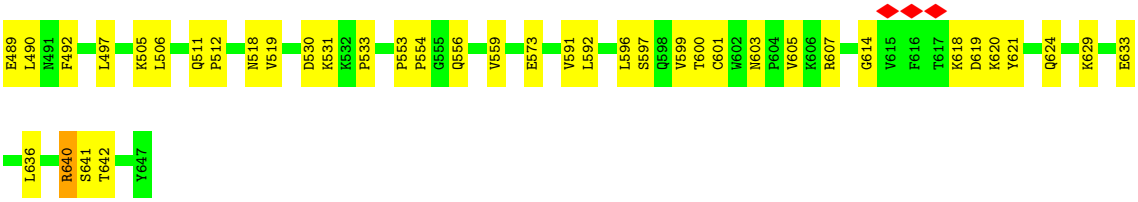
Chain m:



• Molecule 1: Capsid protein VP1

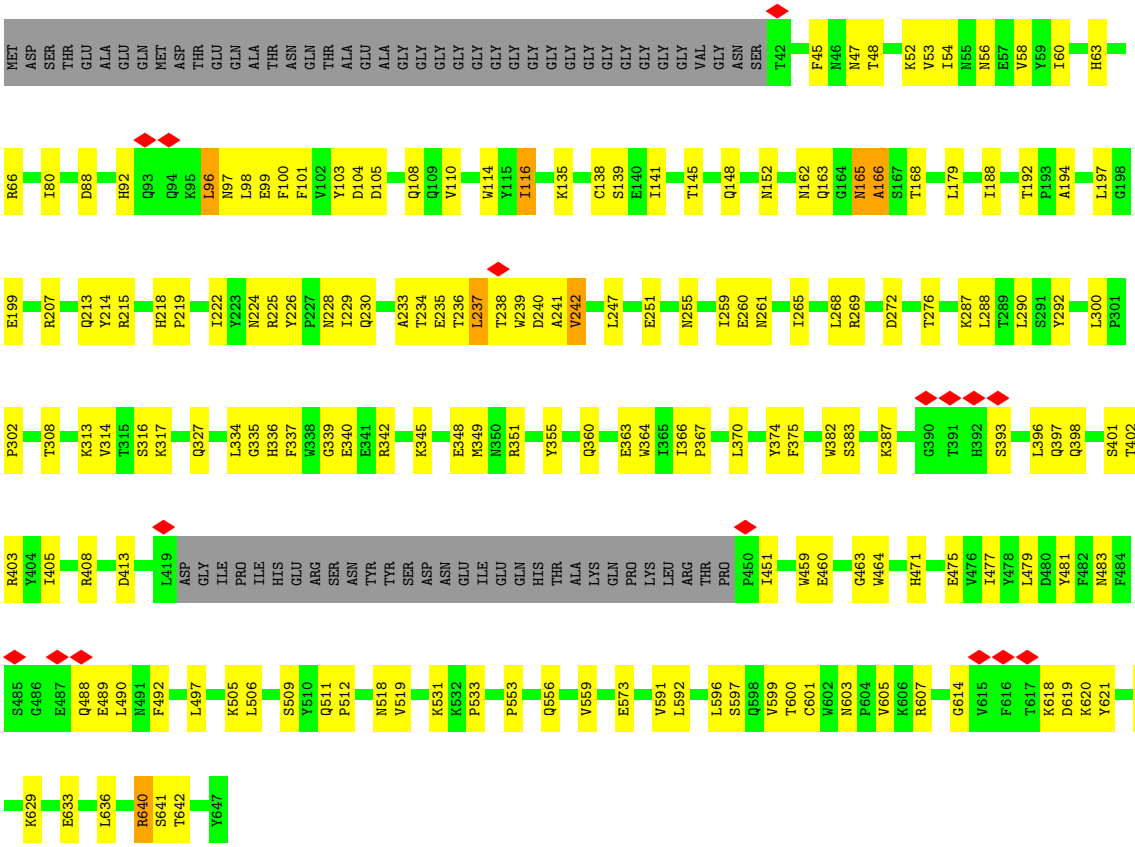
Chain n:





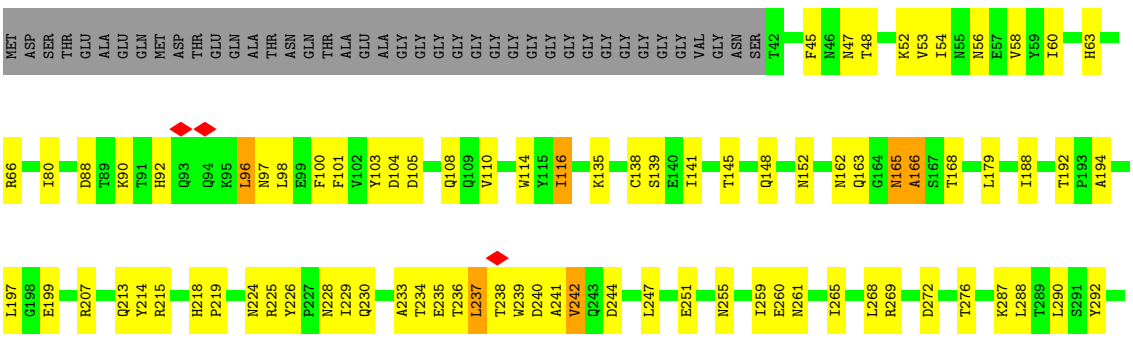
• Molecule 1: Capsid protein VP1

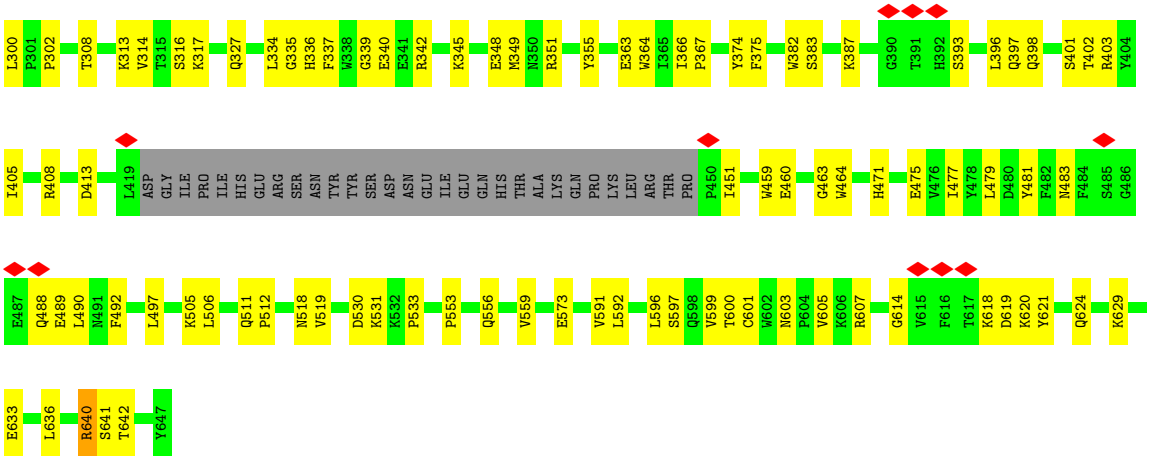
Chain o:



• Molecule 1: Capsid protein VP1

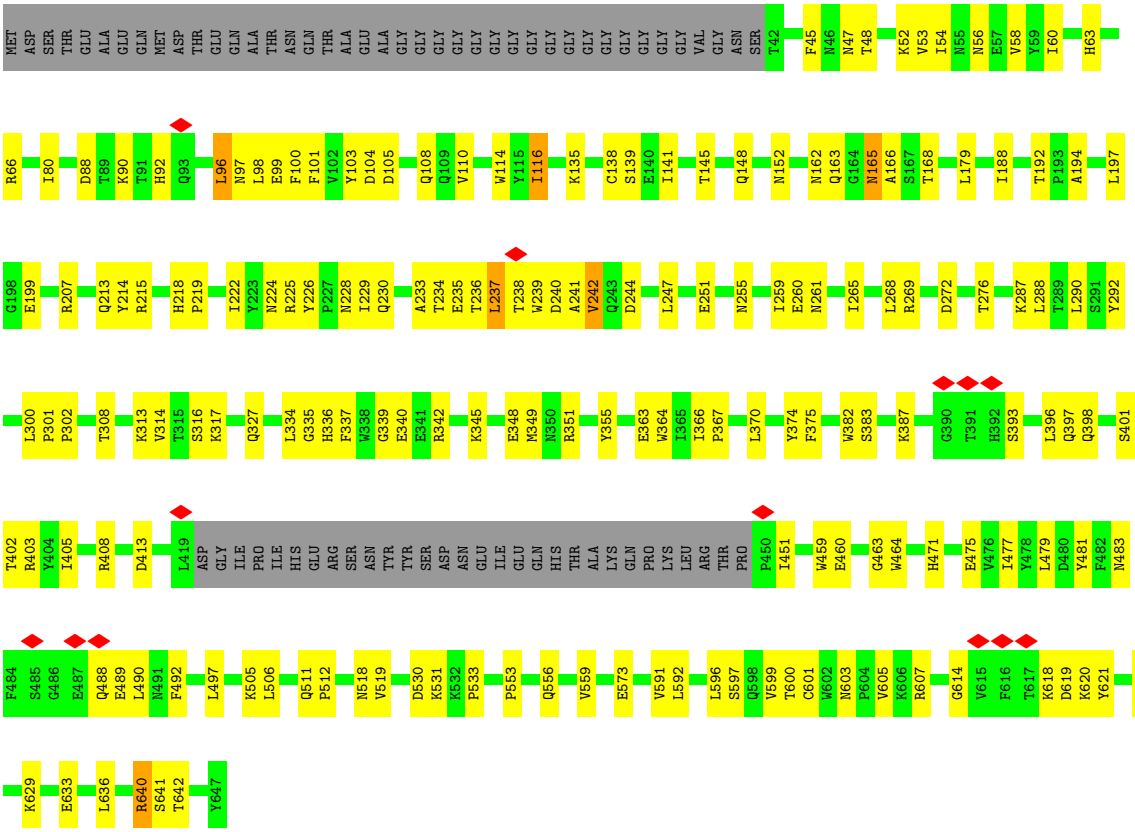
Chain p:





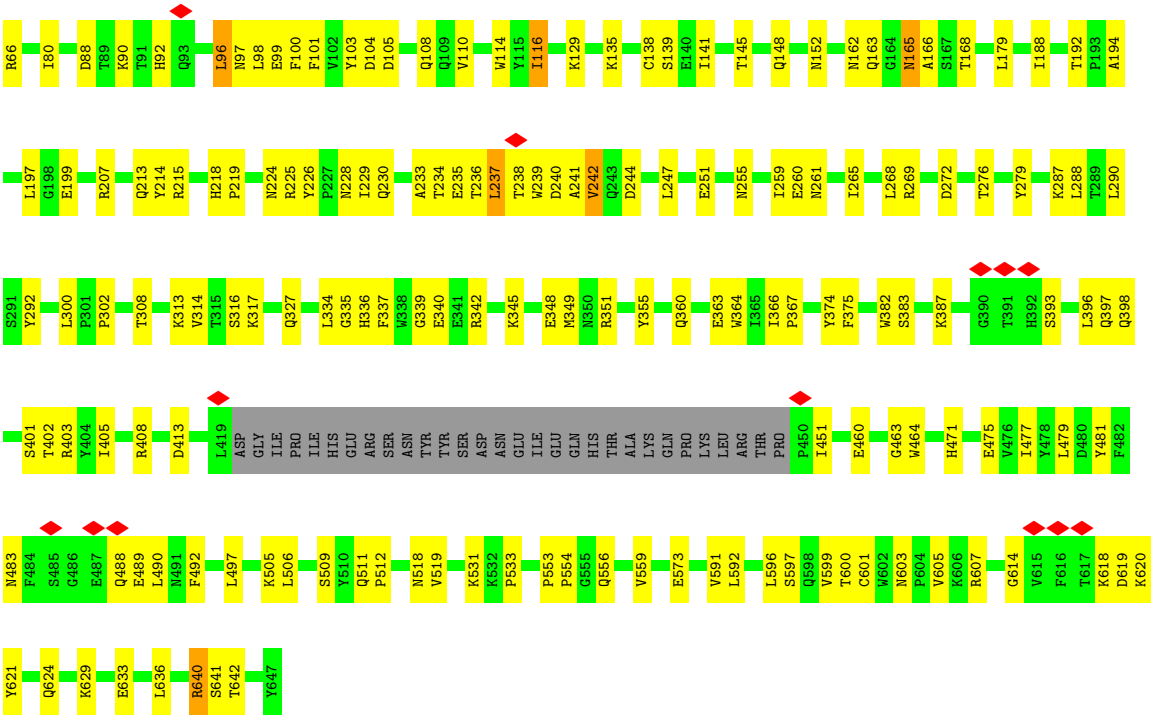
• Molecule 1: Capsid protein VP1

Chain q:



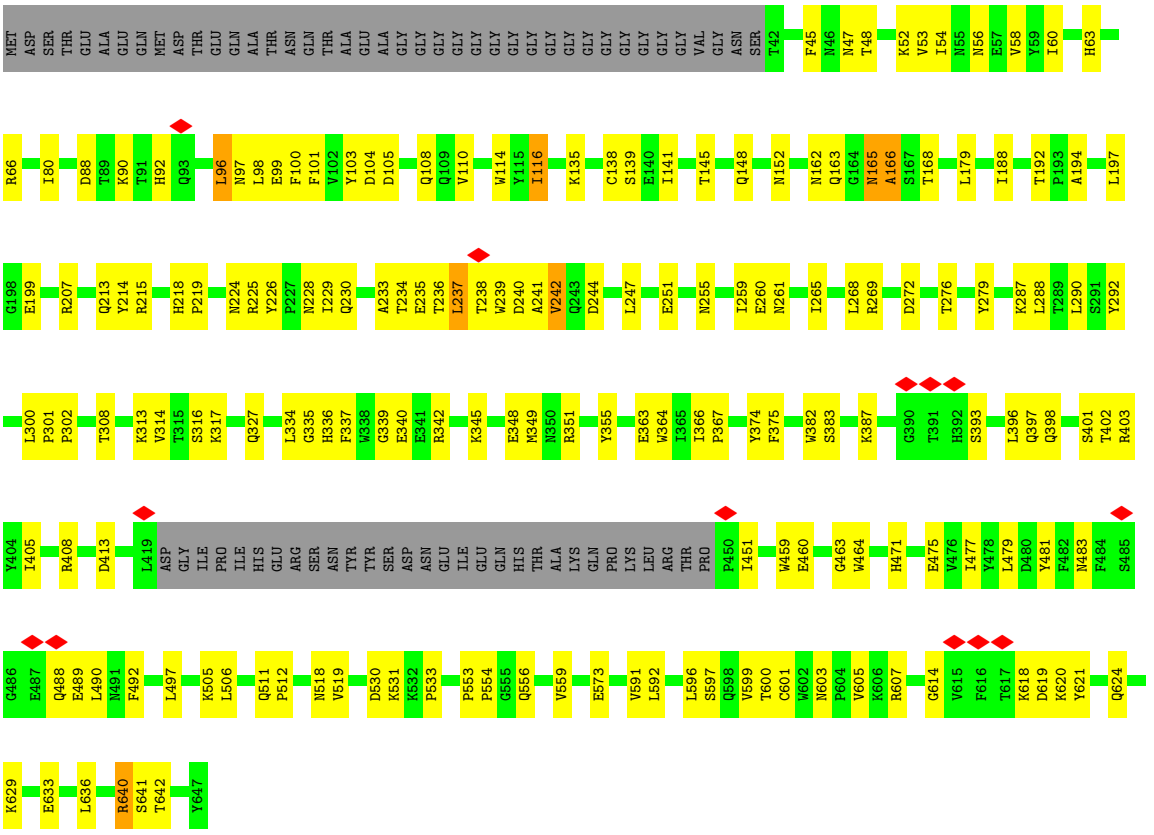
• Molecule 1: Capsid protein VP1

Chain r:



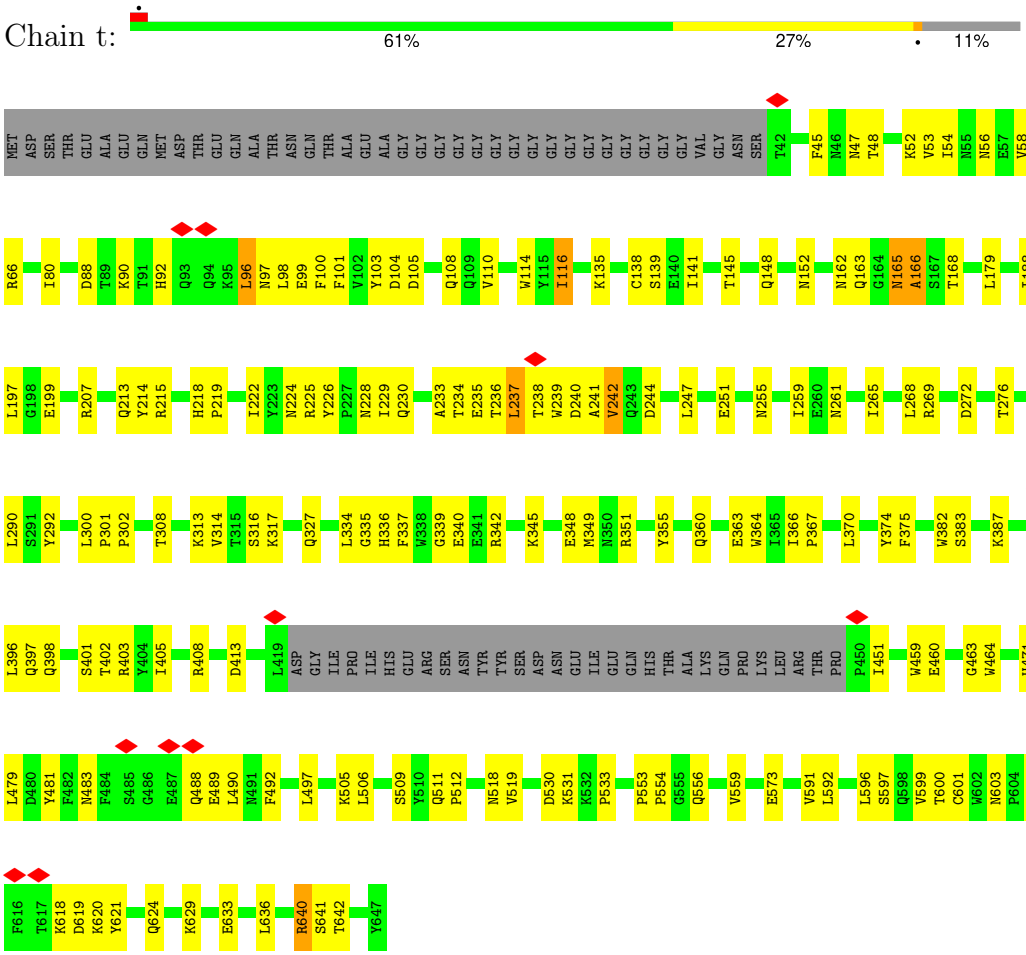
• Molecule 1: Capsid protein VP1

Chain s:



• Molecule 1: Capsid protein VP1

Chain t:



• Molecule 1: Capsid protein VP1

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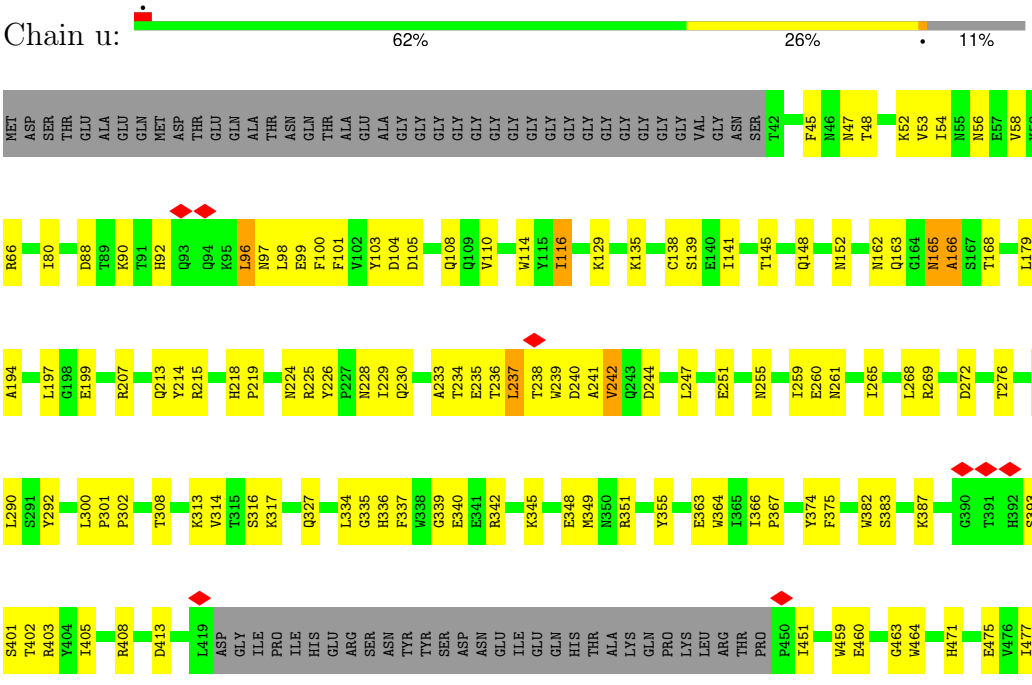
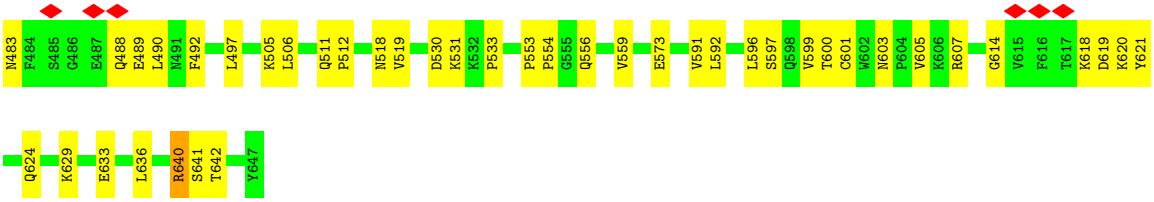
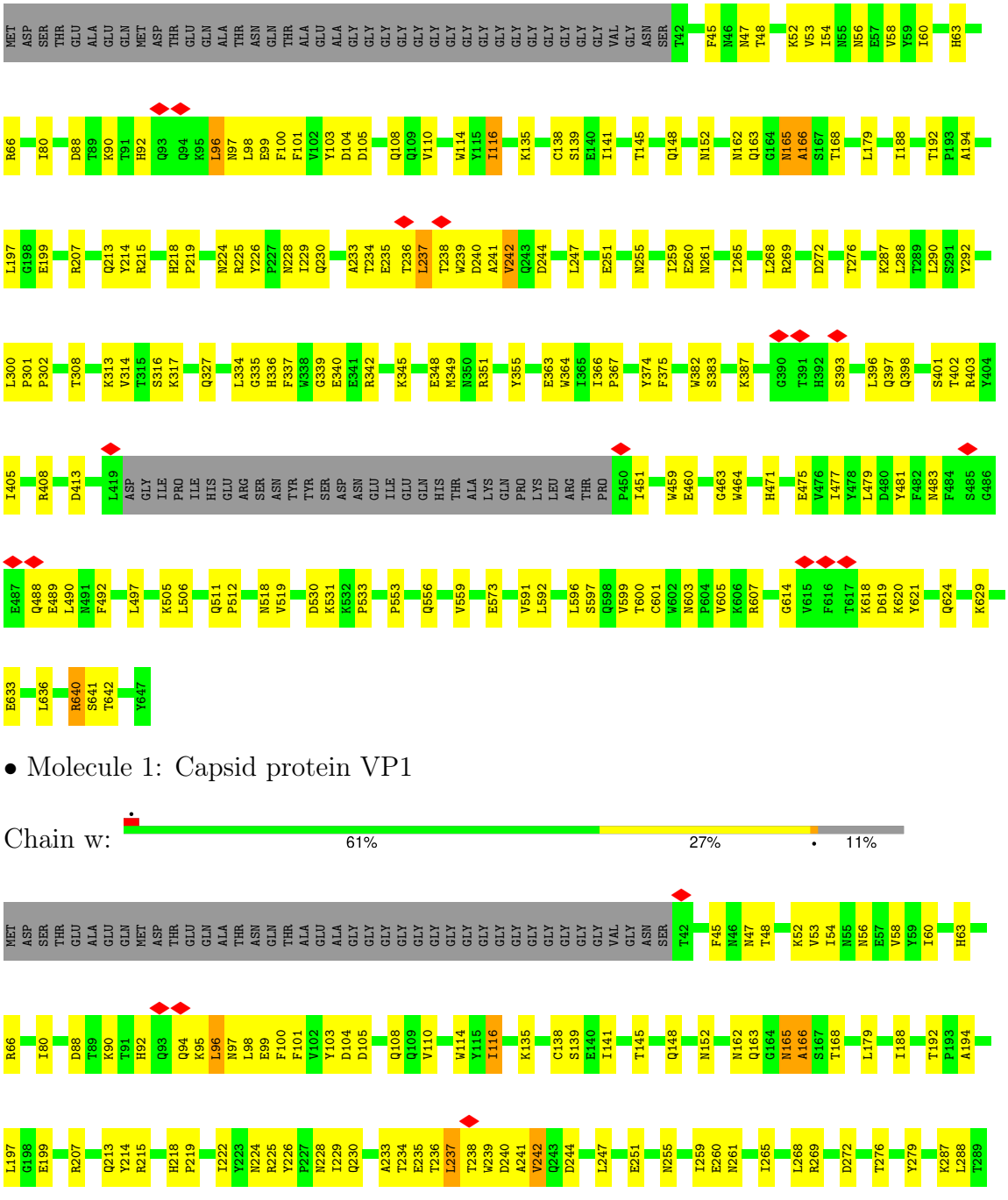




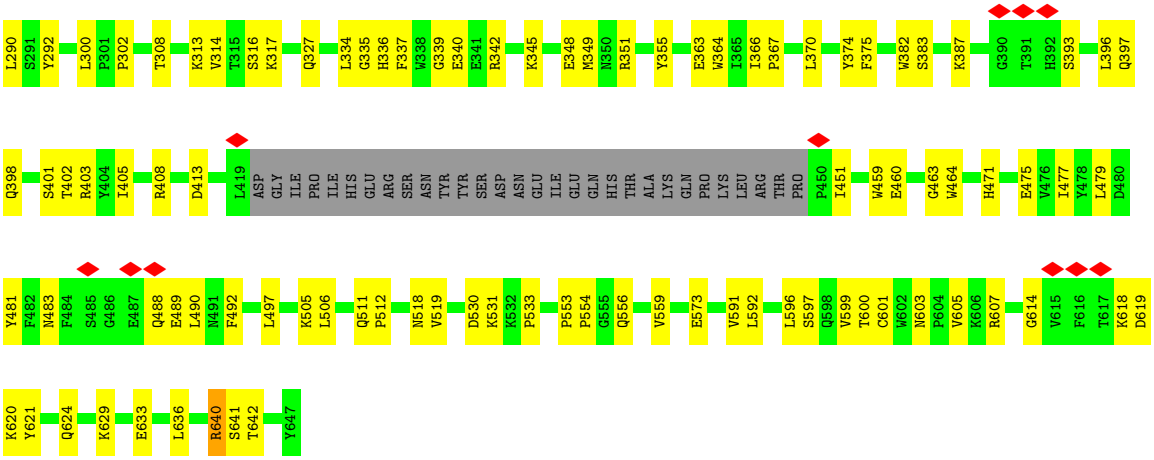
• Molecule 1: Capsid protein VP1

Chain v:



• Molecule 1: Capsid protein VP1

Chain w:



• Molecule 1: Capsid protein VP1

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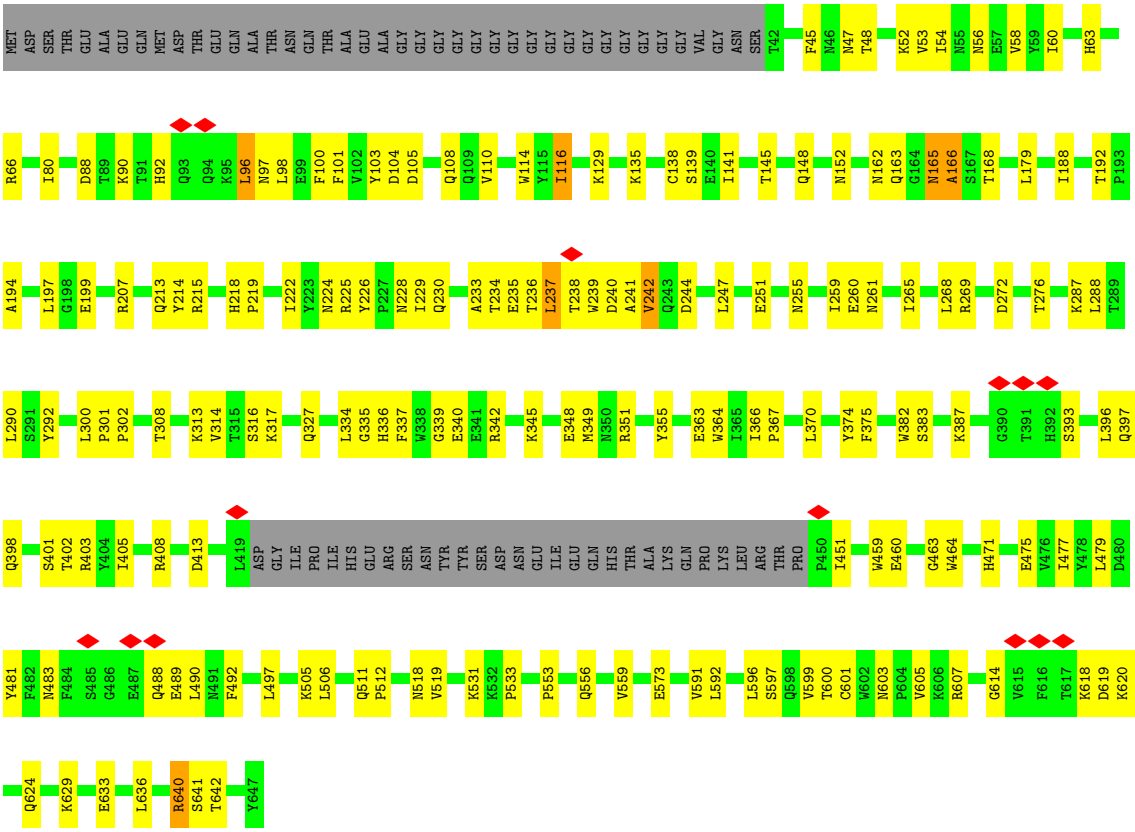
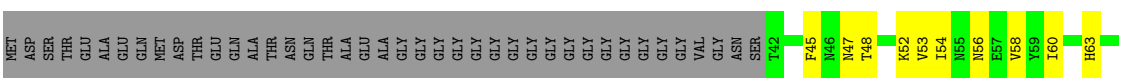
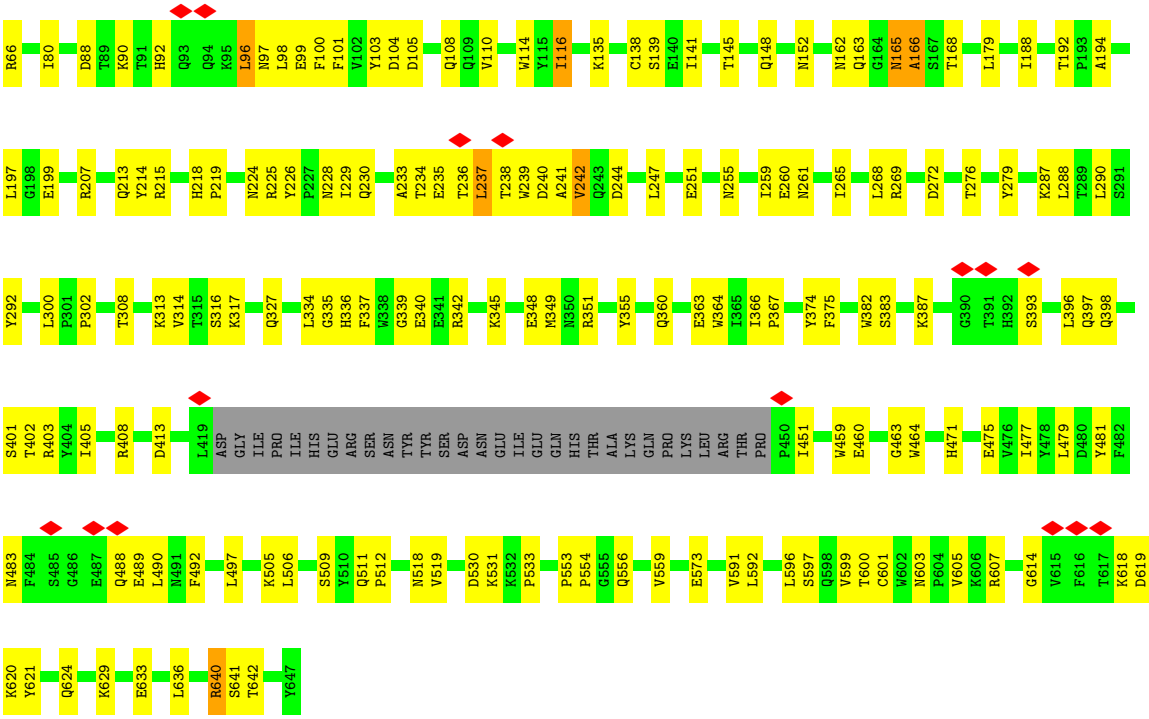


• Molecule 1: Capsid protein VP1

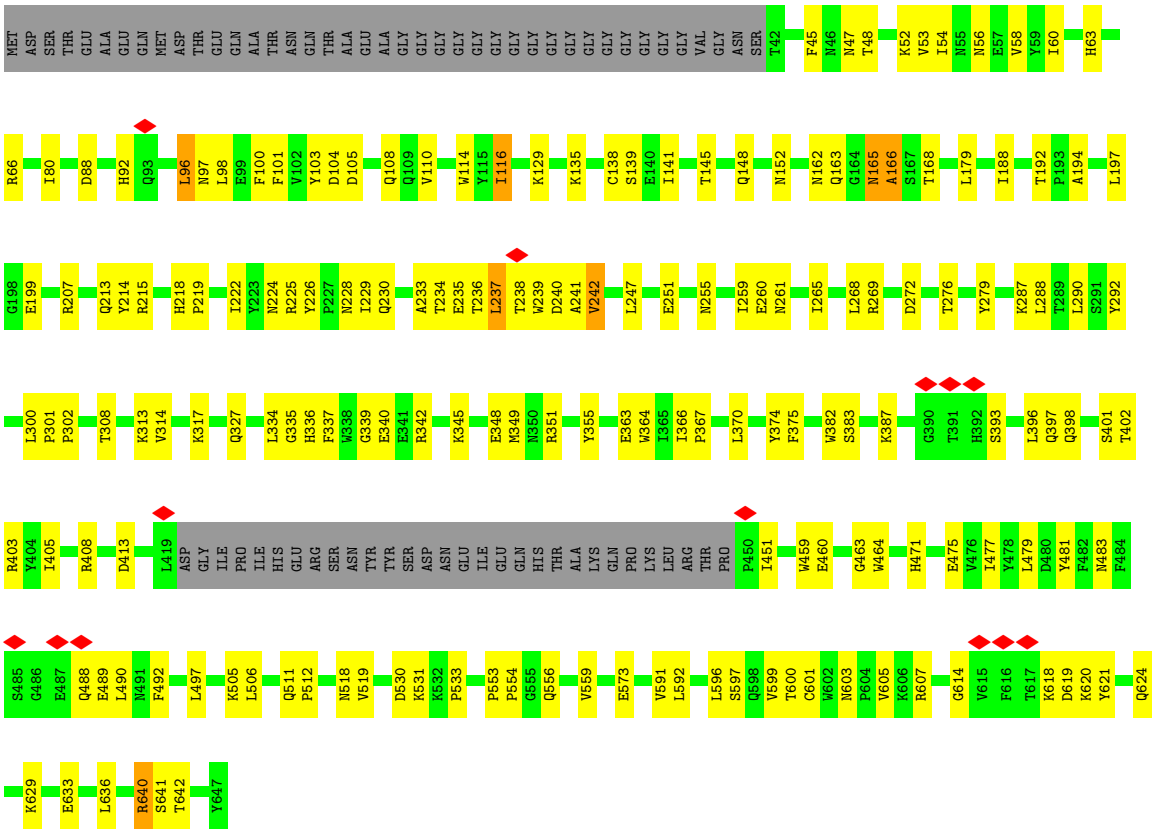
Chain y:





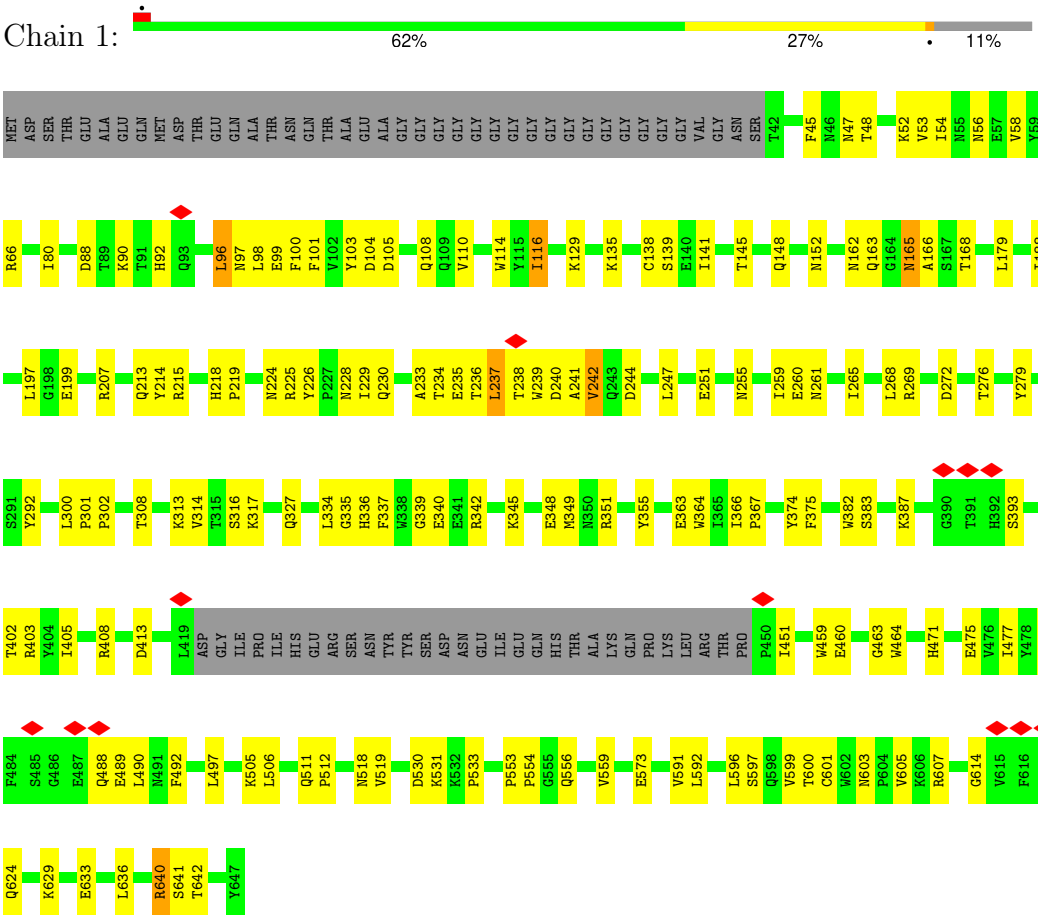
• Molecule 1: Capsid protein VP1

Chain z:



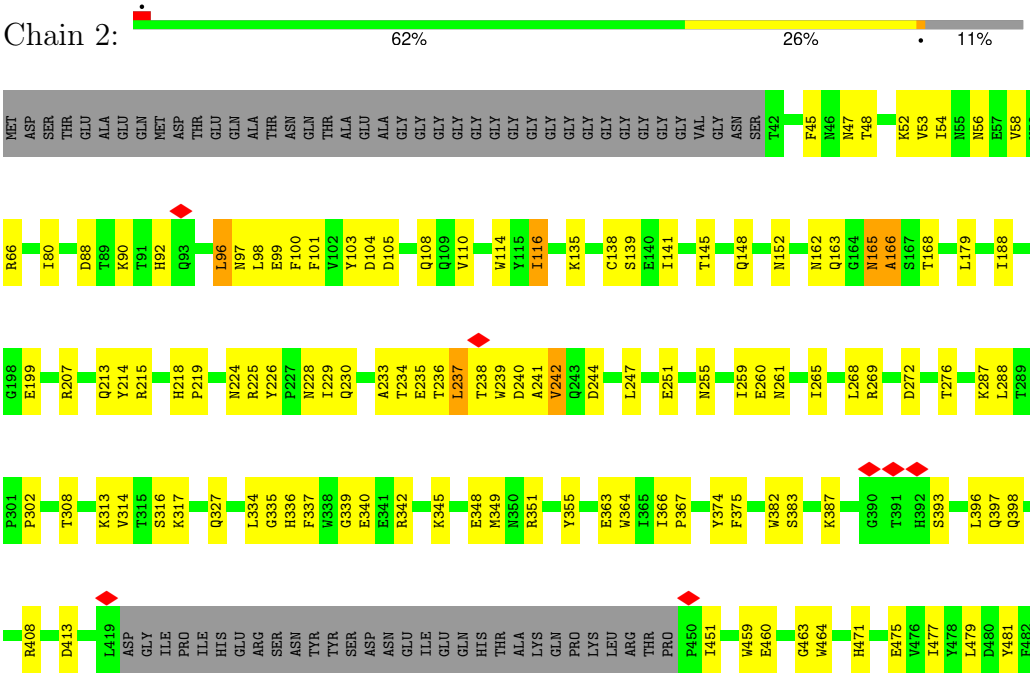
• Molecule 1: Capsid protein VP1

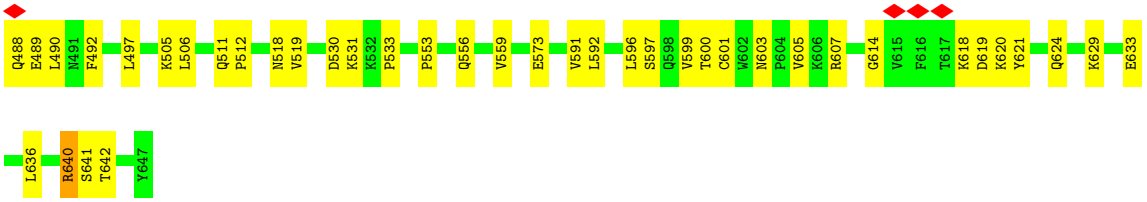
Chain 1:



• Molecule 1: Capsid protein VP1

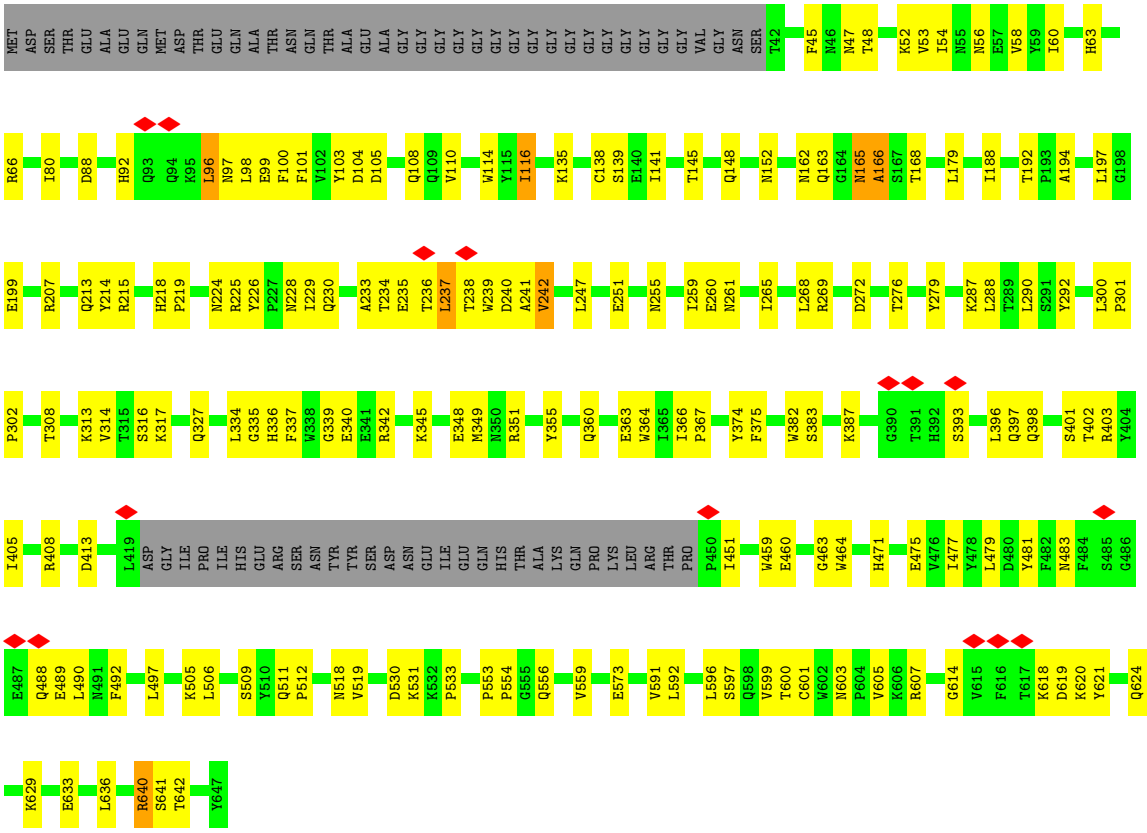
Chain 2:





• Molecule 1: Capsid protein VP1

Chain 3:



• Molecule 1: Capsid protein VP1

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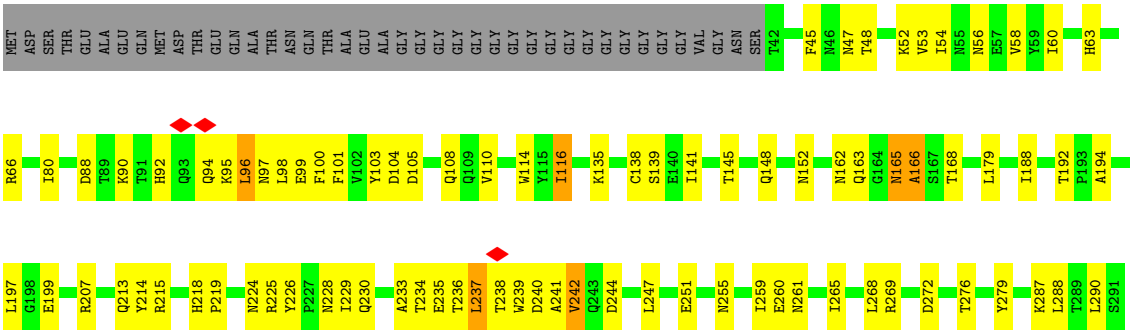
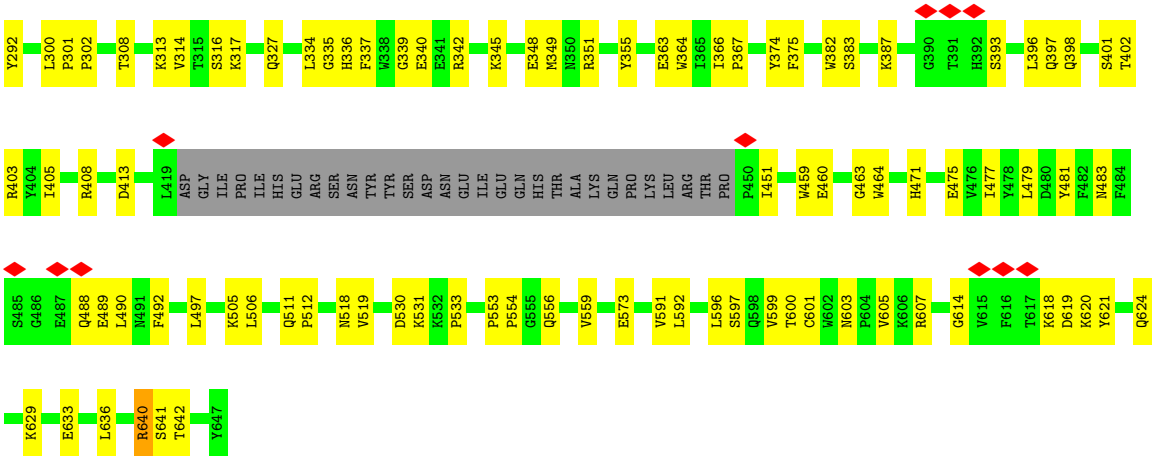
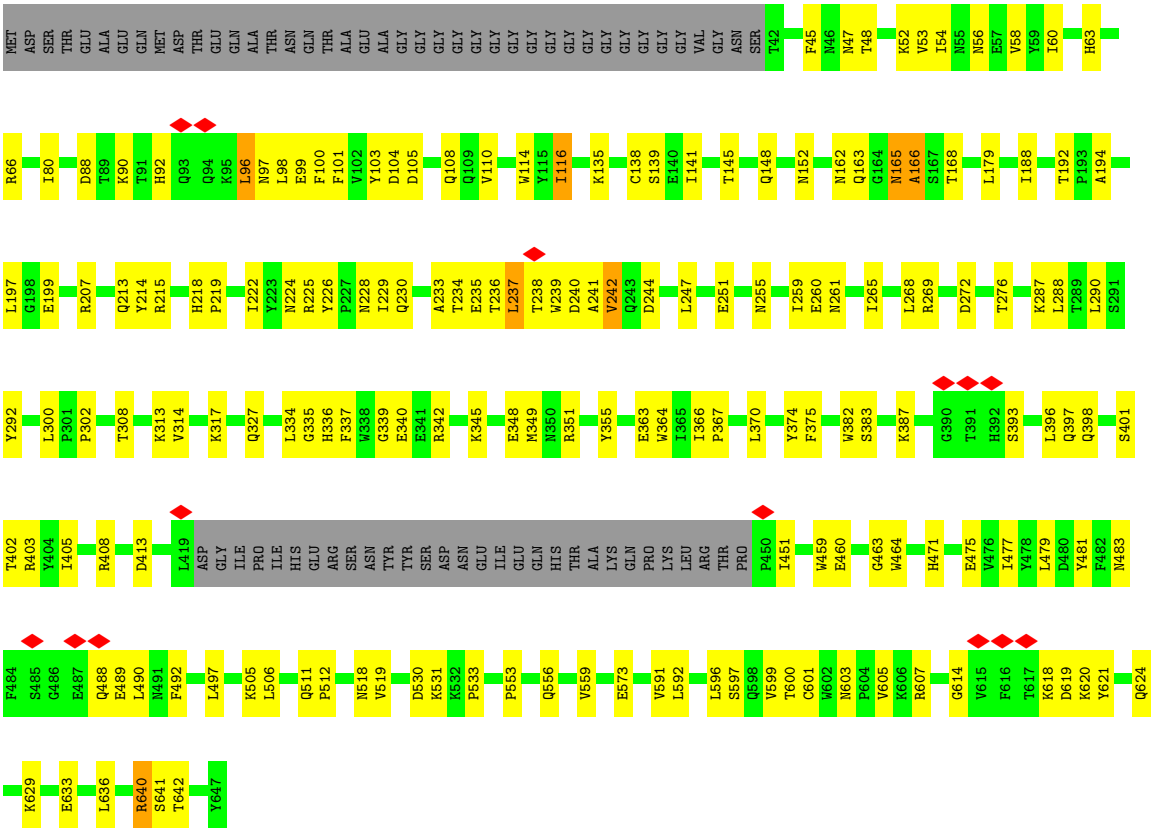




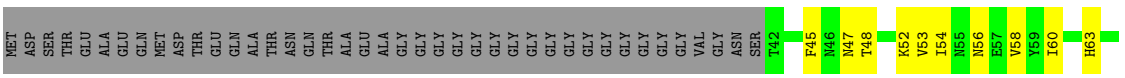
• Molecule 1: Capsid protein VP1

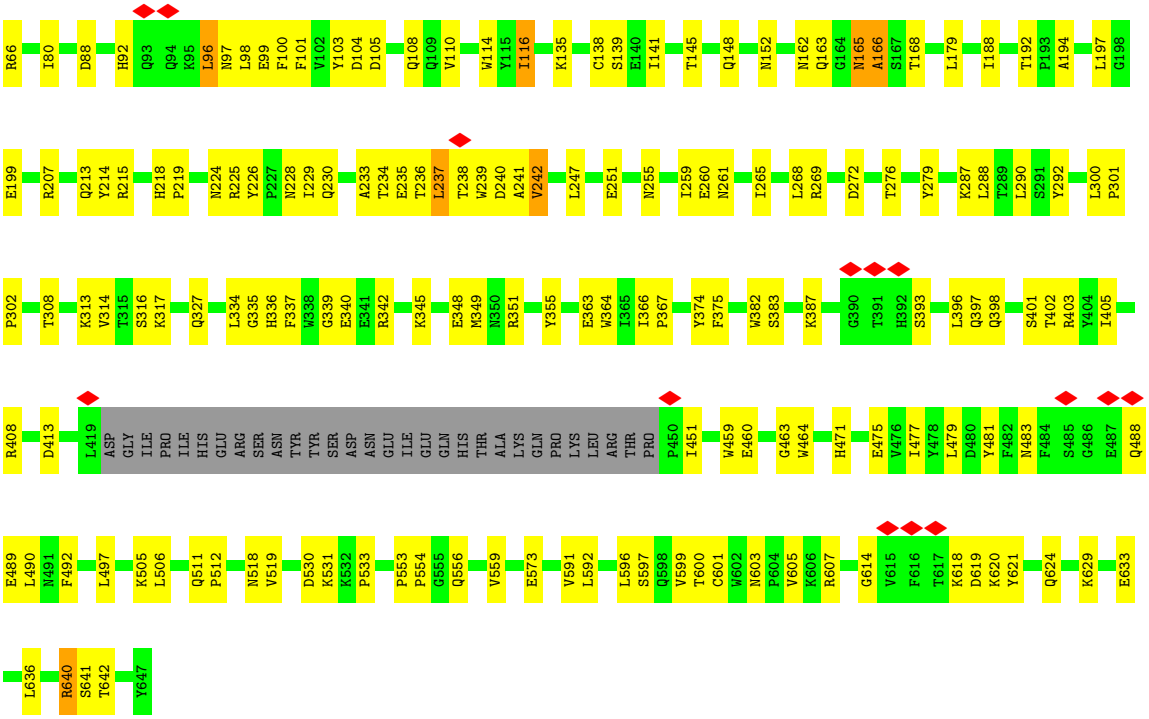
Chain 5:



• Molecule 1: Capsid protein VP1

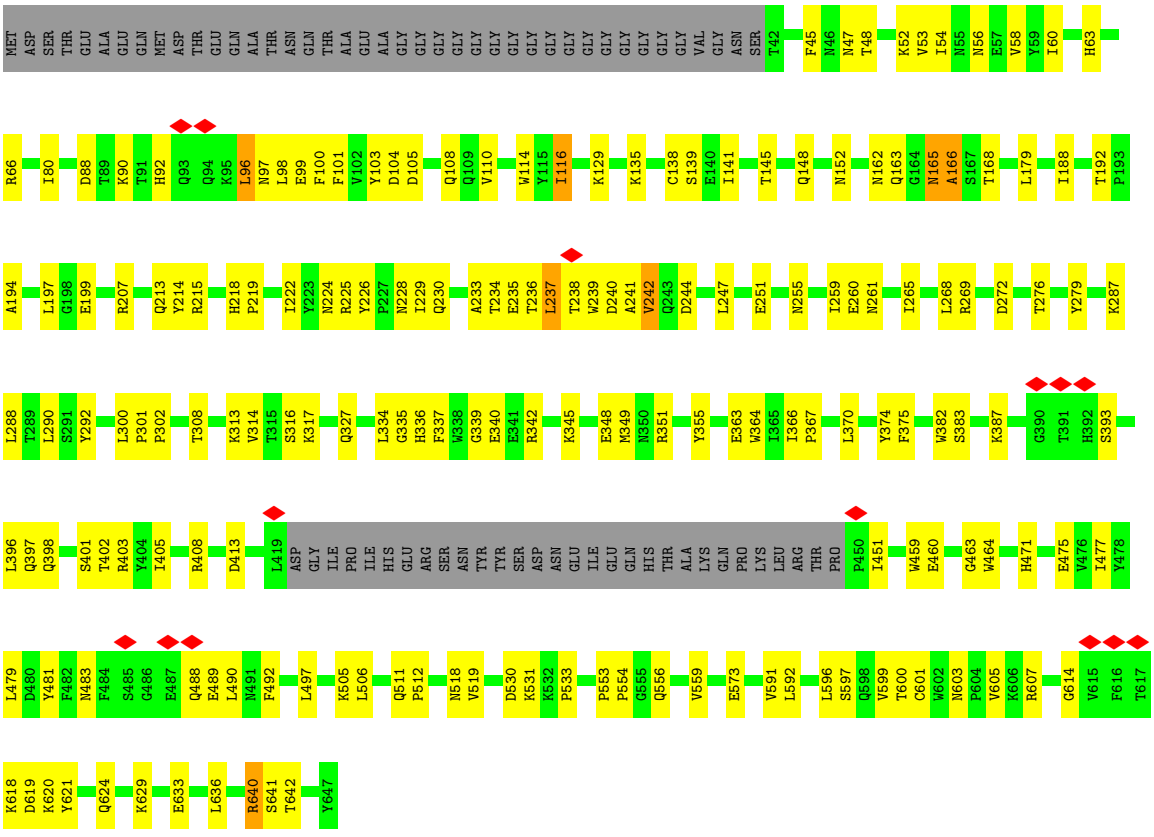
Chain 6:





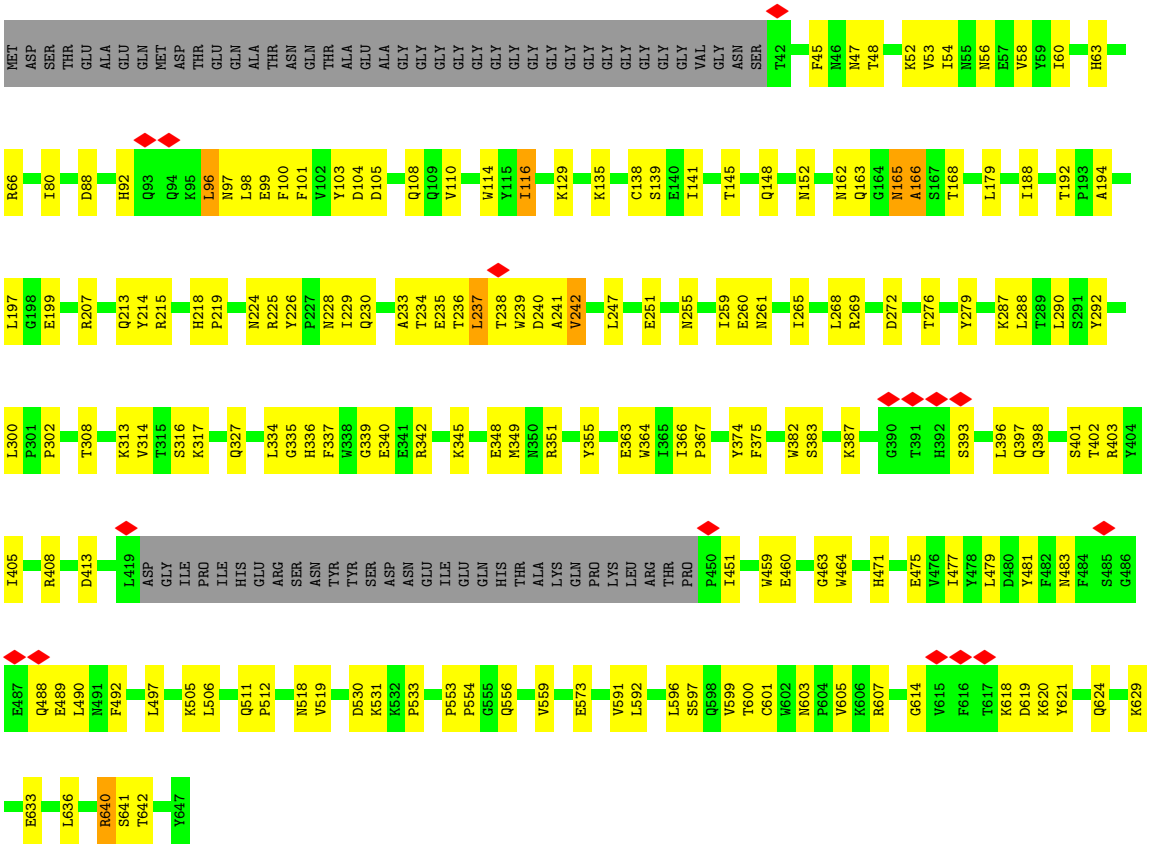
• Molecule 1: Capsid protein VP1

Chain 7:



• Molecule 1: Capsid protein VP1

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	93393	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	59	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	DIRECT ELECTRON APOLLO (4k x 4k)	Depositor
Maximum map value	19.362	Depositor
Minimum map value	-8.773	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.5	Depositor
Map size (Å)	474.5, 474.5, 474.5	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.949, 0.949, 0.949	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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	1	0.45	0/4834	0.56	1/6582 (0.0%)
1	2	0.45	0/4834	0.56	2/6582 (0.0%)
1	3	0.45	0/4834	0.56	2/6582 (0.0%)
1	4	0.45	0/4834	0.56	2/6582 (0.0%)
1	5	0.45	0/4834	0.56	2/6582 (0.0%)
1	6	0.45	0/4834	0.56	2/6582 (0.0%)
1	7	0.45	0/4834	0.56	2/6582 (0.0%)
1	8	0.45	0/4834	0.56	2/6582 (0.0%)
1	A	0.45	0/4834	0.56	2/6582 (0.0%)
1	B	0.45	0/4834	0.56	1/6582 (0.0%)
1	C	0.45	0/4834	0.56	2/6582 (0.0%)
1	D	0.45	0/4834	0.56	2/6582 (0.0%)
1	E	0.45	0/4834	0.56	2/6582 (0.0%)
1	F	0.45	0/4834	0.56	2/6582 (0.0%)
1	G	0.45	0/4834	0.56	2/6582 (0.0%)
1	H	0.45	0/4834	0.56	2/6582 (0.0%)
1	I	0.45	0/4834	0.56	2/6582 (0.0%)
1	J	0.45	0/4834	0.56	1/6582 (0.0%)
1	K	0.45	0/4834	0.56	2/6582 (0.0%)
1	L	0.45	0/4834	0.56	2/6582 (0.0%)
1	M	0.45	0/4834	0.56	2/6582 (0.0%)
1	N	0.45	0/4834	0.56	2/6582 (0.0%)
1	O	0.45	0/4834	0.56	2/6582 (0.0%)
1	P	0.45	0/4834	0.56	2/6582 (0.0%)
1	Q	0.45	0/4834	0.56	2/6582 (0.0%)
1	R	0.45	0/4834	0.56	1/6582 (0.0%)
1	S	0.45	0/4834	0.56	1/6582 (0.0%)
1	T	0.45	0/4834	0.56	2/6582 (0.0%)
1	U	0.45	0/4834	0.56	2/6582 (0.0%)
1	V	0.45	0/4834	0.56	2/6582 (0.0%)
1	W	0.45	0/4834	0.56	2/6582 (0.0%)
1	X	0.45	0/4834	0.56	2/6582 (0.0%)
1	Y	0.45	0/4834	0.56	2/6582 (0.0%)
1	Z	0.45	0/4834	0.56	2/6582 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.45	0/4834	0.56	2/6582 (0.0%)
1	b	0.45	0/4834	0.56	2/6582 (0.0%)
1	c	0.45	0/4834	0.56	2/6582 (0.0%)
1	d	0.45	0/4834	0.56	2/6582 (0.0%)
1	e	0.45	0/4834	0.56	2/6582 (0.0%)
1	f	0.45	0/4834	0.56	2/6582 (0.0%)
1	g	0.45	0/4834	0.56	2/6582 (0.0%)
1	h	0.45	0/4834	0.56	2/6582 (0.0%)
1	i	0.45	0/4834	0.56	2/6582 (0.0%)
1	j	0.45	0/4834	0.56	2/6582 (0.0%)
1	k	0.45	0/4834	0.56	2/6582 (0.0%)
1	l	0.45	0/4834	0.56	2/6582 (0.0%)
1	m	0.45	0/4834	0.56	2/6582 (0.0%)
1	n	0.45	0/4834	0.56	2/6582 (0.0%)
1	o	0.45	0/4834	0.56	2/6582 (0.0%)
1	p	0.45	0/4834	0.56	2/6582 (0.0%)
1	q	0.45	0/4834	0.56	1/6582 (0.0%)
1	r	0.45	0/4834	0.56	1/6582 (0.0%)
1	s	0.45	0/4834	0.56	2/6582 (0.0%)
1	t	0.45	0/4834	0.56	2/6582 (0.0%)
1	u	0.45	0/4834	0.56	2/6582 (0.0%)
1	v	0.45	0/4834	0.56	2/6582 (0.0%)
1	w	0.45	0/4834	0.56	2/6582 (0.0%)
1	x	0.45	0/4834	0.56	2/6582 (0.0%)
1	y	0.45	0/4834	0.56	2/6582 (0.0%)
1	z	0.45	0/4834	0.56	2/6582 (0.0%)
All	All	0.45	0/290040	0.56	113/394920 (0.0%)

There are no bond length outliers.

All (113) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	97	ASN	N-CA-C	5.43	117.60	108.96
1	F	97	ASN	N-CA-C	5.42	117.58	108.96
1	v	97	ASN	N-CA-C	5.42	117.58	108.96
1	y	97	ASN	N-CA-C	5.42	117.58	108.96
1	E	97	ASN	N-CA-C	5.42	117.58	108.96
1	H	97	ASN	N-CA-C	5.42	117.58	108.96
1	X	97	ASN	N-CA-C	5.42	117.58	108.96
1	h	97	ASN	N-CA-C	5.42	117.57	108.96
1	j	97	ASN	N-CA-C	5.42	117.58	108.96
1	t	97	ASN	N-CA-C	5.42	117.58	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	97	ASN	N-CA-C	5.41	117.57	108.96
1	Y	97	ASN	N-CA-C	5.41	117.57	108.96
1	6	97	ASN	N-CA-C	5.41	117.57	108.96
1	7	97	ASN	N-CA-C	5.41	117.57	108.96
1	M	97	ASN	N-CA-C	5.40	117.55	108.96
1	o	97	ASN	N-CA-C	5.40	117.55	108.96
1	N	97	ASN	N-CA-C	5.40	117.55	108.96
1	P	97	ASN	N-CA-C	5.40	117.55	108.96
1	i	97	ASN	N-CA-C	5.40	117.55	108.96
1	k	97	ASN	N-CA-C	5.40	117.55	108.96
1	B	97	ASN	N-CA-C	5.40	117.54	108.96
1	J	97	ASN	N-CA-C	5.40	117.54	108.96
1	L	97	ASN	N-CA-C	5.40	117.54	108.96
1	R	97	ASN	N-CA-C	5.40	117.54	108.96
1	S	97	ASN	N-CA-C	5.40	117.54	108.96
1	U	97	ASN	N-CA-C	5.40	117.54	108.96
1	q	97	ASN	N-CA-C	5.40	117.54	108.96
1	r	97	ASN	N-CA-C	5.40	117.54	108.96
1	s	97	ASN	N-CA-C	5.40	117.54	108.96
1	z	97	ASN	N-CA-C	5.40	117.54	108.96
1	1	97	ASN	N-CA-C	5.40	117.54	108.96
1	2	97	ASN	N-CA-C	5.40	117.54	108.96
1	G	97	ASN	N-CA-C	5.40	117.54	108.96
1	w	97	ASN	N-CA-C	5.40	117.54	108.96
1	b	97	ASN	N-CA-C	5.39	117.54	108.96
1	c	97	ASN	N-CA-C	5.39	117.54	108.96
1	3	97	ASN	N-CA-C	5.39	117.54	108.96
1	A	97	ASN	N-CA-C	5.39	117.53	108.96
1	C	97	ASN	N-CA-C	5.39	117.53	108.96
1	g	97	ASN	N-CA-C	5.39	117.53	108.96
1	p	97	ASN	N-CA-C	5.39	117.53	108.96
1	4	97	ASN	N-CA-C	5.39	117.53	108.96
1	I	97	ASN	N-CA-C	5.38	117.52	108.96
1	K	97	ASN	N-CA-C	5.38	117.52	108.96
1	Q	97	ASN	N-CA-C	5.38	117.52	108.96
1	T	97	ASN	N-CA-C	5.38	117.52	108.96
1	a	97	ASN	N-CA-C	5.38	117.52	108.96
1	d	97	ASN	N-CA-C	5.38	117.52	108.96
1	n	97	ASN	N-CA-C	5.38	117.52	108.96
1	u	97	ASN	N-CA-C	5.38	117.52	108.96
1	x	97	ASN	N-CA-C	5.38	117.52	108.96
1	W	97	ASN	N-CA-C	5.38	117.51	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	97	ASN	N-CA-C	5.38	117.51	108.96
1	Z	97	ASN	N-CA-C	5.38	117.51	108.96
1	l	97	ASN	N-CA-C	5.38	117.51	108.96
1	m	97	ASN	N-CA-C	5.38	117.51	108.96
1	8	97	ASN	N-CA-C	5.38	117.51	108.96
1	f	97	ASN	N-CA-C	5.37	117.50	108.96
1	V	97	ASN	N-CA-C	5.36	117.48	108.96
1	e	97	ASN	N-CA-C	5.36	117.48	108.96
1	X	166	ALA	CB-CA-C	-5.09	110.73	116.63
1	K	166	ALA	CB-CA-C	-5.08	110.74	116.63
1	T	166	ALA	CB-CA-C	-5.08	110.74	116.63
1	F	166	ALA	CB-CA-C	-5.07	110.75	116.63
1	a	166	ALA	CB-CA-C	-5.07	110.75	116.63
1	b	166	ALA	CB-CA-C	-5.07	110.75	116.63
1	c	166	ALA	CB-CA-C	-5.07	110.75	116.63
1	v	166	ALA	CB-CA-C	-5.07	110.75	116.63
1	y	166	ALA	CB-CA-C	-5.07	110.75	116.63
1	3	166	ALA	CB-CA-C	-5.07	110.75	116.63
1	C	166	ALA	CB-CA-C	-5.06	110.76	116.63
1	H	166	ALA	CB-CA-C	-5.06	110.76	116.63
1	p	166	ALA	CB-CA-C	-5.06	110.76	116.63
1	z	166	ALA	CB-CA-C	-5.06	110.76	116.63
1	N	166	ALA	CB-CA-C	-5.05	110.77	116.63
1	P	166	ALA	CB-CA-C	-5.05	110.77	116.63
1	i	166	ALA	CB-CA-C	-5.05	110.77	116.63
1	4	166	ALA	CB-CA-C	-5.05	110.77	116.63
1	W	166	ALA	CB-CA-C	-5.05	110.77	116.63
1	j	166	ALA	CB-CA-C	-5.05	110.77	116.63
1	5	166	ALA	CB-CA-C	-5.05	110.77	116.63
1	g	166	ALA	CB-CA-C	-5.05	110.78	116.63
1	7	166	ALA	CB-CA-C	-5.04	110.78	116.63
1	A	166	ALA	CB-CA-C	-5.04	110.78	116.63
1	Y	166	ALA	CB-CA-C	-5.04	110.78	116.63
1	e	166	ALA	CB-CA-C	-5.04	110.78	116.63
1	m	166	ALA	CB-CA-C	-5.04	110.78	116.63
1	D	166	ALA	CB-CA-C	-5.04	110.78	116.63
1	k	166	ALA	CB-CA-C	-5.04	110.78	116.63
1	6	166	ALA	CB-CA-C	-5.04	110.78	116.63
1	d	166	ALA	CB-CA-C	-5.04	110.78	116.63
1	2	166	ALA	CB-CA-C	-5.04	110.79	116.63
1	Z	166	ALA	CB-CA-C	-5.04	110.79	116.63
1	V	166	ALA	CB-CA-C	-5.03	110.80	116.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	n	166	ALA	CB-CA-C	-5.02	110.81	116.63
1	O	166	ALA	CB-CA-C	-5.02	110.81	116.63
1	I	166	ALA	CB-CA-C	-5.02	110.81	116.63
1	L	166	ALA	CB-CA-C	-5.02	110.81	116.63
1	Q	166	ALA	CB-CA-C	-5.02	110.81	116.63
1	U	166	ALA	CB-CA-C	-5.02	110.81	116.63
1	f	166	ALA	CB-CA-C	-5.02	110.81	116.63
1	s	166	ALA	CB-CA-C	-5.02	110.81	116.63
1	u	166	ALA	CB-CA-C	-5.02	110.81	116.63
1	x	166	ALA	CB-CA-C	-5.02	110.81	116.63
1	M	166	ALA	CB-CA-C	-5.01	110.82	116.63
1	h	166	ALA	CB-CA-C	-5.01	110.82	116.63
1	o	166	ALA	CB-CA-C	-5.01	110.82	116.63
1	8	166	ALA	CB-CA-C	-5.01	110.82	116.63
1	E	166	ALA	CB-CA-C	-5.00	110.83	116.63
1	G	166	ALA	CB-CA-C	-5.00	110.83	116.63
1	l	166	ALA	CB-CA-C	-5.00	110.83	116.63
1	t	166	ALA	CB-CA-C	-5.00	110.83	116.63
1	w	166	ALA	CB-CA-C	-5.00	110.83	116.63

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	1	4698	0	4471	186	0
1	2	4698	0	4471	183	0
1	3	4698	0	4471	190	0
1	4	4698	0	4471	187	0
1	5	4698	0	4471	182	0
1	6	4698	0	4471	182	0
1	7	4698	0	4471	186	0
1	8	4698	0	4471	187	0
1	A	4698	0	4471	181	0
1	B	4698	0	4471	189	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	4698	0	4471	185	0
1	D	4698	0	4471	187	0
1	E	4698	0	4471	183	0
1	F	4698	0	4471	186	0
1	G	4698	0	4471	187	0
1	H	4698	0	4471	182	0
1	I	4698	0	4471	184	0
1	J	4698	0	4471	183	0
1	K	4698	0	4471	185	0
1	L	4698	0	4471	183	0
1	M	4698	0	4471	183	0
1	N	4698	0	4471	185	0
1	O	4698	0	4471	183	0
1	P	4698	0	4471	183	0
1	Q	4698	0	4471	185	0
1	R	4698	0	4471	183	0
1	S	4698	0	4471	186	0
1	T	4698	0	4471	188	0
1	U	4698	0	4471	183	0
1	V	4698	0	4471	182	0
1	W	4698	0	4471	183	0
1	X	4698	0	4471	184	0
1	Y	4698	0	4471	187	0
1	Z	4698	0	4471	186	0
1	a	4698	0	4471	188	0
1	b	4698	0	4471	187	0
1	c	4698	0	4471	184	0
1	d	4698	0	4471	185	0
1	e	4698	0	4471	185	0
1	f	4698	0	4471	186	0
1	g	4698	0	4471	186	0
1	h	4698	0	4471	182	0
1	i	4698	0	4471	185	0
1	j	4698	0	4471	183	0
1	k	4698	0	4471	188	0
1	l	4698	0	4471	181	0
1	m	4698	0	4471	187	0
1	n	4698	0	4471	183	0
1	o	4698	0	4471	184	0
1	p	4698	0	4471	182	0
1	q	4698	0	4471	183	0
1	r	4698	0	4471	184	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	s	4698	0	4471	181	0
1	t	4698	0	4471	188	0
1	u	4698	0	4471	185	0
1	v	4698	0	4471	183	0
1	w	4698	0	4471	184	0
1	x	4698	0	4471	184	0
1	y	4698	0	4471	186	0
1	z	4698	0	4471	184	0
All	All	281880	0	268260	8726	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 16.

All (8726) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:239:TRP:CZ3	1:D:242:VAL:HA	1.54	1.43
1:L:239:TRP:CZ3	1:L:242:VAL:HA	1.54	1.43
1:X:239:TRP:CZ3	1:X:242:VAL:HA	1.54	1.43
1:o:239:TRP:CZ3	1:o:242:VAL:HA	1.54	1.43
1:z:239:TRP:CZ3	1:z:242:VAL:HA	1.54	1.43
1:b:239:TRP:CZ3	1:b:242:VAL:HA	1.54	1.43
1:f:239:TRP:CZ3	1:f:242:VAL:HA	1.54	1.43
1:k:239:TRP:CZ3	1:k:242:VAL:HA	1.54	1.43
1:C:239:TRP:CZ3	1:C:242:VAL:HA	1.54	1.43
1:F:239:TRP:CZ3	1:F:242:VAL:HA	1.54	1.43
1:O:239:TRP:CZ3	1:O:242:VAL:HA	1.54	1.43
1:R:239:TRP:CZ3	1:R:242:VAL:HA	1.54	1.43
1:g:239:TRP:CZ3	1:g:242:VAL:HA	1.54	1.43
1:q:239:TRP:CZ3	1:q:242:VAL:HA	1.54	1.42
1:y:239:TRP:CZ3	1:y:242:VAL:HA	1.54	1.42
1:2:239:TRP:CZ3	1:2:242:VAL:HA	1.54	1.42
1:I:239:TRP:CZ3	1:I:242:VAL:HA	1.54	1.42
1:J:239:TRP:CZ3	1:J:242:VAL:HA	1.54	1.42
1:l:239:TRP:CZ3	1:l:242:VAL:HA	1.54	1.42
1:G:239:TRP:CZ3	1:G:242:VAL:HA	1.54	1.42
1:H:239:TRP:CZ3	1:H:242:VAL:HA	1.54	1.42
1:u:239:TRP:CZ3	1:u:242:VAL:HA	1.54	1.42
1:5:239:TRP:CZ3	1:5:242:VAL:HA	1.54	1.42
1:Z:239:TRP:CZ3	1:Z:242:VAL:HA	1.54	1.42
1:t:239:TRP:CZ3	1:t:242:VAL:HA	1.54	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:239:TRP:CZ3	1:8:242:VAL:HA	1.54	1.42
1:P:239:TRP:CZ3	1:P:242:VAL:HA	1.54	1.42
1:T:239:TRP:CZ3	1:T:242:VAL:HA	1.54	1.42
1:j:239:TRP:CZ3	1:j:242:VAL:HA	1.54	1.42
1:1:239:TRP:CZ3	1:1:242:VAL:HA	1.54	1.42
1:B:239:TRP:CZ3	1:B:242:VAL:HA	1.54	1.41
1:m:239:TRP:CZ3	1:m:242:VAL:HA	1.54	1.41
1:i:239:TRP:CZ3	1:i:242:VAL:HA	1.54	1.41
1:x:239:TRP:CZ3	1:x:242:VAL:HA	1.54	1.41
1:N:239:TRP:CZ3	1:N:242:VAL:HA	1.54	1.41
1:Q:239:TRP:CZ3	1:Q:242:VAL:HA	1.54	1.41
1:W:239:TRP:CZ3	1:W:242:VAL:HA	1.54	1.41
1:3:239:TRP:CZ3	1:3:242:VAL:HA	1.54	1.41
1:6:239:TRP:CZ3	1:6:242:VAL:HA	1.54	1.41
1:a:239:TRP:CZ3	1:a:242:VAL:HA	1.54	1.41
1:c:239:TRP:CZ3	1:c:242:VAL:HA	1.54	1.41
1:S:239:TRP:CZ3	1:S:242:VAL:HA	1.54	1.40
1:d:239:TRP:CZ3	1:d:242:VAL:HA	1.54	1.40
1:e:239:TRP:CZ3	1:e:242:VAL:HA	1.54	1.40
1:n:239:TRP:CZ3	1:n:242:VAL:HA	1.54	1.40
1:A:239:TRP:CZ3	1:A:242:VAL:HA	1.54	1.40
1:U:239:TRP:CZ3	1:U:242:VAL:HA	1.54	1.40
1:r:239:TRP:CZ3	1:r:242:VAL:HA	1.54	1.40
1:v:239:TRP:CZ3	1:v:242:VAL:HA	1.54	1.40
1:Y:239:TRP:CZ3	1:Y:242:VAL:HA	1.54	1.40
1:p:239:TRP:CZ3	1:p:242:VAL:HA	1.54	1.40
1:7:239:TRP:CZ3	1:7:242:VAL:HA	1.54	1.40
1:s:239:TRP:CZ3	1:s:242:VAL:HA	1.54	1.40
1:E:239:TRP:CZ3	1:E:242:VAL:HA	1.54	1.39
1:K:239:TRP:CZ3	1:K:242:VAL:HA	1.54	1.39
1:M:239:TRP:CZ3	1:M:242:VAL:HA	1.54	1.39
1:V:239:TRP:CZ3	1:V:242:VAL:HA	1.54	1.39
1:h:239:TRP:CZ3	1:h:242:VAL:HA	1.54	1.39
1:4:239:TRP:CZ3	1:4:242:VAL:HA	1.54	1.39
1:w:239:TRP:CZ3	1:w:242:VAL:HA	1.54	1.39
1:G:239:TRP:CZ3	1:G:242:VAL:CA	2.12	1.33
1:t:239:TRP:CZ3	1:t:242:VAL:CA	2.12	1.33
1:6:239:TRP:CZ3	1:6:242:VAL:CA	2.12	1.33
1:M:239:TRP:CZ3	1:M:242:VAL:CA	2.12	1.33
1:R:239:TRP:CZ3	1:R:242:VAL:CA	2.12	1.33
1:W:239:TRP:CZ3	1:W:242:VAL:CA	2.12	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:239:TRP:CZ3	1:h:242:VAL:CA	2.12	1.33
1:F:239:TRP:CZ3	1:F:242:VAL:CA	2.12	1.32
1:q:239:TRP:CZ3	1:q:242:VAL:CA	2.12	1.32
1:A:239:TRP:CZ3	1:A:242:VAL:CA	2.12	1.32
1:O:239:TRP:CZ3	1:O:242:VAL:CA	2.12	1.32
1:V:239:TRP:CZ3	1:V:242:VAL:CA	2.12	1.32
1:l:239:TRP:CZ3	1:l:242:VAL:CA	2.12	1.32
1:p:239:TRP:CZ3	1:p:242:VAL:CA	2.12	1.32
1:v:239:TRP:CZ3	1:v:242:VAL:CA	2.12	1.32
1:y:239:TRP:CZ3	1:y:242:VAL:CA	2.12	1.32
1:u:239:TRP:CZ3	1:u:242:VAL:CA	2.12	1.32
1:I:239:TRP:CZ3	1:I:242:VAL:CA	2.12	1.32
1:Z:239:TRP:CZ3	1:Z:242:VAL:CA	2.12	1.32
1:5:239:TRP:CZ3	1:5:242:VAL:CA	2.12	1.32
1:H:239:TRP:CZ3	1:H:242:VAL:CA	2.12	1.32
1:N:239:TRP:CZ3	1:N:242:VAL:CA	2.12	1.32
1:P:239:TRP:CZ3	1:P:242:VAL:CA	2.12	1.32
1:8:239:TRP:CZ3	1:8:242:VAL:CA	2.12	1.32
1:U:239:TRP:CZ3	1:U:242:VAL:CA	2.12	1.31
1:g:239:TRP:CZ3	1:g:242:VAL:CA	2.12	1.31
1:i:239:TRP:CZ3	1:i:242:VAL:CA	2.12	1.31
1:j:239:TRP:CZ3	1:j:242:VAL:CA	2.12	1.31
1:s:239:TRP:CZ3	1:s:242:VAL:CA	2.12	1.31
1:C:239:TRP:CZ3	1:C:242:VAL:CA	2.12	1.31
1:c:239:TRP:CZ3	1:c:242:VAL:CA	2.12	1.31
1:e:239:TRP:CZ3	1:e:242:VAL:CA	2.12	1.31
1:o:239:TRP:CZ3	1:o:242:VAL:CA	2.12	1.31
1:T:239:TRP:CZ3	1:T:242:VAL:CA	2.12	1.31
1:X:239:TRP:CZ3	1:X:242:VAL:CA	2.12	1.31
1:d:239:TRP:CZ3	1:d:242:VAL:CA	2.12	1.31
1:x:239:TRP:CZ3	1:x:242:VAL:CA	2.12	1.31
1:B:239:TRP:CZ3	1:B:242:VAL:CA	2.12	1.31
1:Q:239:TRP:CZ3	1:Q:242:VAL:CA	2.12	1.31
1:f:239:TRP:CZ3	1:f:242:VAL:CA	2.12	1.31
1:m:239:TRP:CZ3	1:m:242:VAL:CA	2.12	1.31
1:n:239:TRP:CZ3	1:n:242:VAL:CA	2.12	1.31
1:1:239:TRP:CZ3	1:1:242:VAL:CA	2.12	1.31
1:a:239:TRP:CZ3	1:a:242:VAL:CA	2.12	1.30
1:3:239:TRP:CZ3	1:3:242:VAL:CA	2.12	1.30
1:E:239:TRP:CZ3	1:E:242:VAL:CA	2.12	1.30
1:Y:239:TRP:HZ3	1:Y:242:VAL:CA	1.45	1.30

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:239:TRP:CZ3	1:b:242:VAL:CA	2.12	1.30
1:J:239:TRP:HZ3	1:J:242:VAL:CA	1.45	1.30
1:K:239:TRP:HZ3	1:K:242:VAL:CA	1.45	1.30
1:r:239:TRP:CZ3	1:r:242:VAL:CA	2.12	1.30
1:J:239:TRP:CZ3	1:J:242:VAL:CA	2.12	1.30
1:O:239:TRP:HZ3	1:O:242:VAL:CA	1.45	1.30
1:S:239:TRP:CZ3	1:S:242:VAL:CA	2.12	1.30
1:4:239:TRP:HZ3	1:4:242:VAL:CA	1.45	1.30
1:7:239:TRP:HZ3	1:7:242:VAL:CA	1.45	1.30
1:L:239:TRP:CZ3	1:L:242:VAL:CA	2.12	1.30
1:T:239:TRP:HZ3	1:T:242:VAL:CA	1.45	1.30
1:l:239:TRP:HZ3	1:l:242:VAL:CA	1.45	1.30
1:m:239:TRP:HZ3	1:m:242:VAL:CA	1.45	1.30
1:2:239:TRP:CZ3	1:2:242:VAL:CA	2.12	1.30
1:w:239:TRP:HZ3	1:w:242:VAL:CA	1.45	1.29
1:z:239:TRP:CZ3	1:z:242:VAL:CA	2.12	1.29
1:K:239:TRP:CZ3	1:K:242:VAL:CA	2.12	1.29
1:k:239:TRP:CZ3	1:k:242:VAL:CA	2.12	1.29
1:7:239:TRP:CZ3	1:7:242:VAL:CA	2.12	1.29
1:D:239:TRP:CZ3	1:D:242:VAL:CA	2.12	1.29
1:E:239:TRP:HZ3	1:E:242:VAL:CA	1.45	1.29
1:L:239:TRP:HZ3	1:L:242:VAL:CA	1.45	1.29
1:Z:239:TRP:HZ3	1:Z:242:VAL:CA	1.45	1.29
1:k:239:TRP:HZ3	1:k:242:VAL:CA	1.45	1.29
1:4:239:TRP:CZ3	1:4:242:VAL:CA	2.12	1.29
1:D:239:TRP:HZ3	1:D:242:VAL:CA	1.45	1.29
1:W:239:TRP:HZ3	1:W:242:VAL:CA	1.45	1.29
1:Y:239:TRP:CZ3	1:Y:242:VAL:CA	2.12	1.29
1:z:239:TRP:HZ3	1:z:242:VAL:CA	1.45	1.29
1:6:239:TRP:HZ3	1:6:242:VAL:CA	1.45	1.29
1:8:239:TRP:HZ3	1:8:242:VAL:CA	1.45	1.29
1:c:239:TRP:HZ3	1:c:242:VAL:CA	1.45	1.29
1:e:239:TRP:HZ3	1:e:242:VAL:CA	1.45	1.29
1:F:239:TRP:HZ3	1:F:242:VAL:CA	1.45	1.28
1:B:239:TRP:HZ3	1:B:242:VAL:CA	1.45	1.28
1:w:239:TRP:CZ3	1:w:242:VAL:CA	2.12	1.28
1:y:239:TRP:HZ3	1:y:242:VAL:CA	1.45	1.28
1:H:239:TRP:HZ3	1:H:242:VAL:CA	1.45	1.28
1:1:239:TRP:HZ3	1:1:242:VAL:CA	1.45	1.28
1:M:239:TRP:HZ3	1:M:242:VAL:CA	1.45	1.28
1:5:239:TRP:HZ3	1:5:242:VAL:CA	1.45	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:239:TRP:HZ3	1:G:242:VAL:CA	1.45	1.27
1:R:239:TRP:HZ3	1:R:242:VAL:CA	1.45	1.27
1:q:239:TRP:HZ3	1:q:242:VAL:CA	1.45	1.27
1:C:239:TRP:HZ3	1:C:242:VAL:CA	1.45	1.27
1:h:239:TRP:HZ3	1:h:242:VAL:CA	1.45	1.27
1:g:239:TRP:HZ3	1:g:242:VAL:CA	1.45	1.27
1:I:239:TRP:HZ3	1:I:242:VAL:CA	1.45	1.27
1:t:239:TRP:HZ3	1:t:242:VAL:CA	1.45	1.27
1:X:239:TRP:HZ3	1:X:242:VAL:CA	1.45	1.27
1:u:239:TRP:HZ3	1:u:242:VAL:CA	1.45	1.27
1:b:239:TRP:HZ3	1:b:242:VAL:CA	1.45	1.26
1:f:239:TRP:HZ3	1:f:242:VAL:CA	1.45	1.26
1:i:239:TRP:HZ3	1:i:242:VAL:CA	1.45	1.26
1:o:239:TRP:HZ3	1:o:242:VAL:CA	1.45	1.26
1:N:239:TRP:HZ3	1:N:242:VAL:CA	1.45	1.26
1:A:239:TRP:HZ3	1:A:242:VAL:CA	1.45	1.26
1:V:239:TRP:HZ3	1:V:242:VAL:CA	1.45	1.26
1:a:239:TRP:HZ3	1:a:242:VAL:CA	1.45	1.26
1:p:239:TRP:HZ3	1:p:242:VAL:CA	1.45	1.26
1:v:239:TRP:HZ3	1:v:242:VAL:CA	1.45	1.26
1:3:239:TRP:HZ3	1:3:242:VAL:CA	1.45	1.26
1:x:239:TRP:HZ3	1:x:242:VAL:CA	1.45	1.24
1:Q:239:TRP:HZ3	1:Q:242:VAL:CA	1.45	1.24
1:d:239:TRP:HZ3	1:d:242:VAL:CA	1.45	1.24
1:n:239:TRP:HZ3	1:n:242:VAL:CA	1.45	1.24
1:U:239:TRP:HZ3	1:U:242:VAL:CA	1.45	1.24
1:r:239:TRP:HZ3	1:r:242:VAL:CA	1.45	1.24
1:s:239:TRP:HZ3	1:s:242:VAL:CA	1.45	1.24
1:P:239:TRP:HZ3	1:P:242:VAL:CA	1.45	1.23
1:S:239:TRP:HZ3	1:S:242:VAL:CA	1.45	1.23
1:j:239:TRP:HZ3	1:j:242:VAL:CA	1.45	1.23
1:2:239:TRP:HZ3	1:2:242:VAL:CA	1.45	1.21
1:f:239:TRP:CH2	1:f:242:VAL:HA	1.80	1.17
1:N:239:TRP:CH2	1:N:242:VAL:HA	1.80	1.17
1:b:239:TRP:CH2	1:b:242:VAL:HA	1.80	1.17
1:d:239:TRP:CH2	1:d:242:VAL:HA	1.80	1.17
1:i:239:TRP:CH2	1:i:242:VAL:HA	1.80	1.17
1:O:239:TRP:CH2	1:O:242:VAL:HA	1.80	1.16
1:S:239:TRP:CH2	1:S:242:VAL:HA	1.80	1.16
1:Z:239:TRP:CH2	1:Z:242:VAL:HA	1.80	1.16
1:n:239:TRP:CH2	1:n:242:VAL:HA	1.80	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:239:TRP:CH2	1:r:242:VAL:HA	1.80	1.16
1:8:239:TRP:CH2	1:8:242:VAL:HA	1.80	1.16
1:C:239:TRP:CH2	1:C:242:VAL:HA	1.80	1.16
1:K:239:TRP:CH2	1:K:242:VAL:HA	1.80	1.16
1:L:239:TRP:CH2	1:L:242:VAL:HA	1.80	1.16
1:V:239:TRP:CH2	1:V:242:VAL:HA	1.80	1.16
1:l:239:TRP:CH2	1:l:242:VAL:HA	1.80	1.16
1:p:239:TRP:CH2	1:p:242:VAL:HA	1.80	1.16
1:z:239:TRP:CH2	1:z:242:VAL:HA	1.80	1.16
1:c:239:TRP:CH2	1:c:242:VAL:HA	1.80	1.16
1:e:239:TRP:CH2	1:e:242:VAL:HA	1.80	1.16
1:g:239:TRP:CH2	1:g:242:VAL:HA	1.80	1.16
1:h:239:TRP:CH2	1:h:242:VAL:HA	1.80	1.16
1:4:239:TRP:CH2	1:4:242:VAL:HA	1.80	1.16
1:A:239:TRP:CH2	1:A:242:VAL:HA	1.80	1.16
1:M:239:TRP:CH2	1:M:242:VAL:HA	1.80	1.16
1:t:239:TRP:CH2	1:t:242:VAL:HA	1.80	1.16
1:v:239:TRP:CH2	1:v:242:VAL:HA	1.80	1.16
1:x:239:TRP:CH2	1:x:242:VAL:HA	1.80	1.16
1:F:239:TRP:CH2	1:F:242:VAL:HA	1.80	1.15
1:G:239:TRP:CH2	1:G:242:VAL:HA	1.80	1.15
1:P:239:TRP:CH2	1:P:242:VAL:HA	1.80	1.15
1:Q:239:TRP:CH2	1:Q:242:VAL:HA	1.80	1.15
1:T:239:TRP:CH2	1:T:242:VAL:HA	1.80	1.15
1:W:239:TRP:CH2	1:W:242:VAL:HA	1.80	1.15
1:m:239:TRP:CH2	1:m:242:VAL:HA	1.80	1.15
1:B:239:TRP:CH2	1:B:242:VAL:HA	1.80	1.15
1:s:239:TRP:CH2	1:s:242:VAL:HA	1.80	1.15
1:y:239:TRP:CH2	1:y:242:VAL:HA	1.80	1.15
1:1:239:TRP:CH2	1:1:242:VAL:HA	1.80	1.15
1:6:239:TRP:CH2	1:6:242:VAL:HA	1.80	1.15
1:U:239:TRP:CH2	1:U:242:VAL:HA	1.80	1.15
1:j:239:TRP:CH2	1:j:242:VAL:HA	1.80	1.15
1:k:239:TRP:CH2	1:k:242:VAL:HA	1.80	1.15
1:D:239:TRP:CH2	1:D:242:VAL:HA	1.80	1.15
1:R:239:TRP:CH2	1:R:242:VAL:HA	1.80	1.15
1:H:239:TRP:CH2	1:H:242:VAL:HA	1.80	1.15
1:J:239:TRP:CH2	1:J:242:VAL:HA	1.80	1.15
1:q:239:TRP:CH2	1:q:242:VAL:HA	1.80	1.15
1:u:239:TRP:CH2	1:u:242:VAL:HA	1.80	1.15
1:I:239:TRP:CH2	1:I:242:VAL:HA	1.80	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:239:TRP:CH2	1:2:242:VAL:HA	1.80	1.14
1:5:239:TRP:CH2	1:5:242:VAL:HA	1.80	1.14
1:E:239:TRP:CH2	1:E:242:VAL:HA	1.80	1.14
1:a:239:TRP:CH2	1:a:242:VAL:HA	1.80	1.14
1:3:239:TRP:CH2	1:3:242:VAL:HA	1.80	1.14
1:w:239:TRP:CH2	1:w:242:VAL:HA	1.80	1.14
1:X:239:TRP:CH2	1:X:242:VAL:HA	1.80	1.14
1:o:239:TRP:CH2	1:o:242:VAL:HA	1.80	1.14
1:Y:239:TRP:CH2	1:Y:242:VAL:HA	1.80	1.13
1:7:239:TRP:CH2	1:7:242:VAL:HA	1.80	1.13
1:L:92:HIS:ND1	1:L:239:TRP:HB2	1.70	1.07
1:Z:92:HIS:ND1	1:Z:239:TRP:HB2	1.70	1.07
1:z:92:HIS:ND1	1:z:239:TRP:HB2	1.70	1.07
1:8:92:HIS:ND1	1:8:239:TRP:HB2	1.70	1.07
1:w:92:HIS:ND1	1:w:239:TRP:HB2	1.70	1.07
1:E:92:HIS:ND1	1:E:239:TRP:HB2	1.70	1.07
1:N:92:HIS:ND1	1:N:239:TRP:HB2	1.70	1.07
1:Y:92:HIS:ND1	1:Y:239:TRP:HB2	1.70	1.07
1:a:92:HIS:ND1	1:a:239:TRP:HB2	1.70	1.07
1:d:92:HIS:ND1	1:d:239:TRP:HB2	1.70	1.07
1:n:92:HIS:ND1	1:n:239:TRP:HB2	1.70	1.07
1:p:92:HIS:ND1	1:p:239:TRP:HB2	1.70	1.07
1:7:92:HIS:ND1	1:7:239:TRP:HB2	1.70	1.07
1:M:92:HIS:ND1	1:M:239:TRP:HB2	1.70	1.06
1:V:92:HIS:ND1	1:V:239:TRP:HB2	1.70	1.06
1:e:92:HIS:ND1	1:e:239:TRP:HB2	1.70	1.06
1:i:92:HIS:ND1	1:i:239:TRP:HB2	1.70	1.06
1:j:92:HIS:ND1	1:j:239:TRP:HB2	1.70	1.06
1:r:92:HIS:ND1	1:r:239:TRP:HB2	1.70	1.06
1:y:92:HIS:ND1	1:y:239:TRP:HB2	1.70	1.06
1:3:92:HIS:ND1	1:3:239:TRP:HB2	1.70	1.06
1:F:92:HIS:ND1	1:F:239:TRP:HB2	1.70	1.06
1:J:92:HIS:ND1	1:J:239:TRP:HB2	1.70	1.06
1:P:92:HIS:ND1	1:P:239:TRP:HB2	1.70	1.06
1:Q:92:HIS:ND1	1:Q:239:TRP:HB2	1.70	1.06
1:S:92:HIS:ND1	1:S:239:TRP:HB2	1.70	1.06
1:c:92:HIS:ND1	1:c:239:TRP:HB2	1.70	1.06
1:h:92:HIS:ND1	1:h:239:TRP:HB2	1.70	1.06
1:l:92:HIS:ND1	1:l:239:TRP:HB2	1.70	1.06
1:v:92:HIS:ND1	1:v:239:TRP:HB2	1.70	1.06
1:x:92:HIS:ND1	1:x:239:TRP:HB2	1.70	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:92:HIS:ND1	1:2:239:TRP:HB2	1.70	1.06
1:A:92:HIS:ND1	1:A:239:TRP:HB2	1.70	1.06
1:O:92:HIS:ND1	1:O:239:TRP:HB2	1.70	1.06
1:U:92:HIS:ND1	1:U:239:TRP:HB2	1.70	1.06
1:g:92:HIS:ND1	1:g:239:TRP:HB2	1.70	1.06
1:K:92:HIS:ND1	1:K:239:TRP:HB2	1.70	1.06
1:X:92:HIS:ND1	1:X:239:TRP:HB2	1.70	1.06
1:C:92:HIS:ND1	1:C:239:TRP:HB2	1.70	1.06
1:b:92:HIS:ND1	1:b:239:TRP:HB2	1.70	1.06
1:o:92:HIS:ND1	1:o:239:TRP:HB2	1.70	1.06
1:q:92:HIS:ND1	1:q:239:TRP:HB2	1.70	1.06
1:s:92:HIS:ND1	1:s:239:TRP:HB2	1.70	1.06
1:I:92:HIS:ND1	1:I:239:TRP:HB2	1.70	1.05
1:R:92:HIS:ND1	1:R:239:TRP:HB2	1.70	1.05
1:f:92:HIS:ND1	1:f:239:TRP:HB2	1.70	1.05
1:4:92:HIS:ND1	1:4:239:TRP:HB2	1.70	1.05
1:u:92:HIS:ND1	1:u:239:TRP:HB2	1.70	1.05
1:T:92:HIS:ND1	1:T:239:TRP:HB2	1.70	1.05
1:m:92:HIS:ND1	1:m:239:TRP:HB2	1.70	1.05
1:B:92:HIS:ND1	1:B:239:TRP:HB2	1.70	1.05
1:D:92:HIS:ND1	1:D:239:TRP:HB2	1.70	1.05
1:H:92:HIS:ND1	1:H:239:TRP:HB2	1.70	1.05
1:k:92:HIS:ND1	1:k:239:TRP:HB2	1.70	1.05
1:1:92:HIS:ND1	1:1:239:TRP:HB2	1.70	1.05
1:G:92:HIS:ND1	1:G:239:TRP:HB2	1.70	1.05
1:5:92:HIS:ND1	1:5:239:TRP:HB2	1.70	1.05
1:t:92:HIS:ND1	1:t:239:TRP:HB2	1.70	1.04
1:6:92:HIS:ND1	1:6:239:TRP:HB2	1.70	1.04
1:W:92:HIS:ND1	1:W:239:TRP:HB2	1.70	1.03
1:d:239:TRP:CZ3	1:d:242:VAL:N	2.31	0.99
1:n:239:TRP:CZ3	1:n:242:VAL:N	2.31	0.99
1:2:239:TRP:CZ3	1:2:242:VAL:N	2.31	0.99
1:J:239:TRP:CZ3	1:J:242:VAL:N	2.31	0.99
1:D:239:TRP:CZ3	1:D:242:VAL:N	2.31	0.99
1:K:239:TRP:CZ3	1:K:242:VAL:N	2.31	0.99
1:k:239:TRP:CZ3	1:k:242:VAL:N	2.31	0.99
1:4:239:TRP:CZ3	1:4:242:VAL:N	2.31	0.99
1:6:239:TRP:CZ3	1:6:242:VAL:N	2.31	0.99
1:B:239:TRP:CZ3	1:B:242:VAL:N	2.31	0.99
1:W:239:TRP:CZ3	1:W:242:VAL:N	2.31	0.99
1:w:239:TRP:CZ3	1:w:242:VAL:N	2.31	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:239:TRP:CZ3	1:1:242:VAL:N	2.31	0.99
1:E:239:TRP:CZ3	1:E:242:VAL:N	2.31	0.99
1:C:239:TRP:CZ3	1:C:242:VAL:N	2.31	0.99
1:F:239:TRP:CZ3	1:F:242:VAL:N	2.31	0.99
1:U:239:TRP:CZ3	1:U:242:VAL:N	2.31	0.99
1:g:239:TRP:CZ3	1:g:242:VAL:N	2.31	0.99
1:h:239:TRP:CZ3	1:h:242:VAL:N	2.31	0.99
1:s:239:TRP:CZ3	1:s:242:VAL:N	2.31	0.99
1:M:239:TRP:CZ3	1:M:242:VAL:N	2.31	0.98
1:y:239:TRP:CZ3	1:y:242:VAL:N	2.31	0.98
1:O:239:TRP:CZ3	1:O:242:VAL:N	2.31	0.98
1:t:239:TRP:CZ3	1:t:242:VAL:N	2.31	0.98
1:G:239:TRP:CZ3	1:G:242:VAL:N	2.31	0.98
1:i:239:TRP:CZ3	1:i:242:VAL:N	2.31	0.98
1:H:239:TRP:CZ3	1:H:242:VAL:N	2.31	0.98
1:X:239:TRP:CZ3	1:X:242:VAL:N	2.31	0.98
1:l:239:TRP:CZ3	1:l:242:VAL:N	2.31	0.98
1:z:239:TRP:CZ3	1:z:242:VAL:N	2.31	0.98
1:5:239:TRP:CZ3	1:5:242:VAL:N	2.31	0.98
1:L:239:TRP:CZ3	1:L:242:VAL:N	2.31	0.98
1:q:239:TRP:CZ3	1:q:242:VAL:N	2.31	0.98
1:N:239:TRP:CZ3	1:N:242:VAL:N	2.31	0.98
1:Y:239:TRP:CZ3	1:Y:242:VAL:N	2.31	0.98
1:o:239:TRP:CZ3	1:o:242:VAL:N	2.31	0.98
1:p:239:TRP:CZ3	1:p:242:VAL:N	2.31	0.98
1:7:239:TRP:CZ3	1:7:242:VAL:N	2.31	0.98
1:R:239:TRP:CZ3	1:R:242:VAL:N	2.31	0.98
1:Q:239:TRP:CZ3	1:Q:242:VAL:N	2.31	0.98
1:V:239:TRP:CZ3	1:V:242:VAL:N	2.31	0.98
1:S:239:TRP:CZ3	1:S:242:VAL:N	2.31	0.98
1:x:239:TRP:CZ3	1:x:242:VAL:N	2.31	0.98
1:c:239:TRP:CZ3	1:c:242:VAL:N	2.31	0.97
1:r:239:TRP:CZ3	1:r:242:VAL:N	2.31	0.97
1:Z:239:TRP:CZ3	1:Z:242:VAL:N	2.31	0.97
1:e:239:TRP:CZ3	1:e:242:VAL:N	2.31	0.97
1:u:239:TRP:CZ3	1:u:242:VAL:N	2.31	0.97
1:L:96:LEU:HD23	1:L:96:LEU:H	1.30	0.97
1:c:96:LEU:HD23	1:c:96:LEU:H	1.30	0.97
1:f:239:TRP:CZ3	1:f:242:VAL:N	2.31	0.97
1:x:96:LEU:H	1:x:96:LEU:HD23	1.30	0.97
1:8:239:TRP:CZ3	1:8:242:VAL:N	2.31	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:239:TRP:CZ3	1:I:242:VAL:N	2.31	0.97
1:Q:96:LEU:HD23	1:Q:96:LEU:H	1.30	0.97
1:b:239:TRP:CZ3	1:b:242:VAL:N	2.31	0.97
1:e:96:LEU:H	1:e:96:LEU:HD23	1.30	0.97
1:z:96:LEU:HD23	1:z:96:LEU:H	1.30	0.97
1:A:239:TRP:CZ3	1:A:242:VAL:N	2.31	0.97
1:D:96:LEU:HD23	1:D:96:LEU:H	1.30	0.97
1:a:239:TRP:CZ3	1:a:242:VAL:N	2.31	0.97
1:k:96:LEU:HD23	1:k:96:LEU:H	1.30	0.97
1:v:239:TRP:CZ3	1:v:242:VAL:N	2.31	0.97
1:3:239:TRP:CZ3	1:3:242:VAL:N	2.31	0.97
1:j:239:TRP:CZ3	1:j:242:VAL:N	2.31	0.97
1:E:96:LEU:HD23	1:E:96:LEU:H	1.30	0.97
1:P:239:TRP:CZ3	1:P:242:VAL:N	2.31	0.97
1:m:239:TRP:CZ3	1:m:242:VAL:N	2.31	0.97
1:3:96:LEU:HD23	1:3:96:LEU:H	1.30	0.97
1:T:239:TRP:CZ3	1:T:242:VAL:N	2.31	0.96
1:a:96:LEU:HD23	1:a:96:LEU:H	1.30	0.96
1:d:96:LEU:HD23	1:d:96:LEU:H	1.30	0.96
1:w:96:LEU:HD23	1:w:96:LEU:H	1.30	0.96
1:n:96:LEU:HD23	1:n:96:LEU:H	1.30	0.96
1:F:96:LEU:HD23	1:F:96:LEU:H	1.30	0.96
1:H:96:LEU:HD23	1:H:96:LEU:H	1.30	0.96
1:y:96:LEU:HD23	1:y:96:LEU:H	1.30	0.96
1:5:96:LEU:HD23	1:5:96:LEU:H	1.30	0.96
1:U:96:LEU:H	1:U:96:LEU:HD23	1.30	0.96
1:s:96:LEU:HD23	1:s:96:LEU:H	1.30	0.96
1:C:96:LEU:HD23	1:C:96:LEU:H	1.30	0.96
1:N:96:LEU:HD23	1:N:96:LEU:H	1.30	0.96
1:M:96:LEU:H	1:M:96:LEU:HD23	1.30	0.96
1:g:96:LEU:HD23	1:g:96:LEU:H	1.30	0.96
1:B:96:LEU:H	1:B:96:LEU:HD23	1.30	0.96
1:b:96:LEU:HD23	1:b:96:LEU:H	1.30	0.96
1:f:96:LEU:HD23	1:f:96:LEU:H	1.30	0.96
1:1:96:LEU:HD23	1:1:96:LEU:H	1.30	0.96
1:R:96:LEU:HD23	1:R:96:LEU:H	1.30	0.95
1:h:96:LEU:HD23	1:h:96:LEU:H	1.30	0.95
1:q:96:LEU:HD23	1:q:96:LEU:H	1.30	0.95
1:i:96:LEU:HD23	1:i:96:LEU:H	1.30	0.95
1:u:96:LEU:HD23	1:u:96:LEU:H	1.30	0.95
1:I:96:LEU:HD23	1:I:96:LEU:H	1.30	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:96:LEU:HD23	1:r:96:LEU:H	1.30	0.95
1:S:96:LEU:HD23	1:S:96:LEU:H	1.30	0.95
1:T:96:LEU:HD23	1:T:96:LEU:H	1.30	0.95
1:j:96:LEU:HD23	1:j:96:LEU:H	1.30	0.95
1:m:96:LEU:HD23	1:m:96:LEU:H	1.30	0.95
1:G:96:LEU:HD23	1:G:96:LEU:H	1.30	0.95
1:P:96:LEU:HD23	1:P:96:LEU:H	1.30	0.95
1:7:96:LEU:HD23	1:7:96:LEU:H	1.30	0.95
1:Y:96:LEU:HD23	1:Y:96:LEU:H	1.30	0.95
1:Z:96:LEU:HD23	1:Z:96:LEU:H	1.30	0.95
1:t:96:LEU:HD23	1:t:96:LEU:H	1.30	0.94
1:l:96:LEU:HD23	1:l:96:LEU:H	1.30	0.94
1:8:96:LEU:HD23	1:8:96:LEU:H	1.30	0.94
1:K:96:LEU:HD23	1:K:96:LEU:H	1.30	0.94
1:X:96:LEU:HD23	1:X:96:LEU:H	1.30	0.94
1:O:96:LEU:HD23	1:O:96:LEU:H	1.30	0.94
1:Z:233:ALA:HB3	1:Z:237:LEU:HG	1.50	0.94
1:o:96:LEU:HD23	1:o:96:LEU:H	1.30	0.94
1:4:96:LEU:HD23	1:4:96:LEU:H	1.30	0.94
1:8:233:ALA:HB3	1:8:237:LEU:HG	1.50	0.94
1:A:233:ALA:HB3	1:A:237:LEU:HG	1.50	0.94
1:I:233:ALA:HB3	1:I:237:LEU:HG	1.50	0.94
1:u:233:ALA:HB3	1:u:237:LEU:HG	1.50	0.94
1:v:233:ALA:HB3	1:v:237:LEU:HG	1.50	0.94
1:2:96:LEU:H	1:2:96:LEU:HD23	1.30	0.94
1:J:96:LEU:HD23	1:J:96:LEU:H	1.30	0.94
1:J:233:ALA:HB3	1:J:237:LEU:HG	1.50	0.94
1:v:96:LEU:HD23	1:v:96:LEU:H	1.30	0.94
1:1:233:ALA:HB3	1:1:237:LEU:HG	1.50	0.94
1:2:233:ALA:HB3	1:2:237:LEU:HG	1.50	0.94
1:6:96:LEU:HD23	1:6:96:LEU:H	1.30	0.94
1:B:233:ALA:HB3	1:B:237:LEU:HG	1.50	0.93
1:e:233:ALA:HB3	1:e:237:LEU:HG	1.50	0.93
1:A:96:LEU:HD23	1:A:96:LEU:H	1.30	0.93
1:c:233:ALA:HB3	1:c:237:LEU:HG	1.50	0.93
1:x:233:ALA:HB3	1:x:237:LEU:HG	1.50	0.93
1:X:233:ALA:HB3	1:X:237:LEU:HG	1.50	0.93
1:i:233:ALA:HB3	1:i:237:LEU:HG	1.50	0.93
1:6:233:ALA:HB3	1:6:237:LEU:HG	1.50	0.93
1:N:233:ALA:HB3	1:N:237:LEU:HG	1.50	0.93
1:Q:233:ALA:HB3	1:Q:237:LEU:HG	1.50	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:96:LEU:HD23	1:W:96:LEU:H	1.30	0.93
1:W:233:ALA:HB3	1:W:237:LEU:HG	1.50	0.93
1:4:233:ALA:HB3	1:4:237:LEU:HG	1.50	0.93
1:K:233:ALA:HB3	1:K:237:LEU:HG	1.50	0.93
1:o:233:ALA:HB3	1:o:237:LEU:HG	1.50	0.93
1:d:233:ALA:HB3	1:d:237:LEU:HG	1.50	0.93
1:z:233:ALA:HB3	1:z:237:LEU:HG	1.50	0.93
1:L:233:ALA:HB3	1:L:237:LEU:HG	1.50	0.93
1:V:96:LEU:HD23	1:V:96:LEU:H	1.30	0.93
1:b:233:ALA:HB3	1:b:237:LEU:HG	1.50	0.93
1:l:233:ALA:HB3	1:l:237:LEU:HG	1.50	0.93
1:n:233:ALA:HB3	1:n:237:LEU:HG	1.50	0.93
1:p:96:LEU:H	1:p:96:LEU:HD23	1.30	0.93
1:f:233:ALA:HB3	1:f:237:LEU:HG	1.50	0.93
1:O:233:ALA:HB3	1:O:237:LEU:HG	1.50	0.92
1:r:233:ALA:HB3	1:r:237:LEU:HG	1.50	0.92
1:w:233:ALA:HB3	1:w:237:LEU:HG	1.50	0.92
1:S:233:ALA:HB3	1:S:237:LEU:HG	1.50	0.92
1:C:233:ALA:HB3	1:C:237:LEU:HG	1.50	0.92
1:E:233:ALA:HB3	1:E:237:LEU:HG	1.50	0.92
1:P:233:ALA:HB3	1:P:237:LEU:HG	1.50	0.92
1:g:233:ALA:HB3	1:g:237:LEU:HG	1.50	0.92
1:j:233:ALA:HB3	1:j:237:LEU:HG	1.50	0.92
1:D:233:ALA:HB3	1:D:237:LEU:HG	1.50	0.91
1:k:233:ALA:HB3	1:k:237:LEU:HG	1.50	0.91
1:G:233:ALA:HB3	1:G:237:LEU:HG	1.50	0.91
1:m:233:ALA:HB3	1:m:237:LEU:HG	1.50	0.91
1:t:233:ALA:HB3	1:t:237:LEU:HG	1.50	0.91
1:F:233:ALA:HB3	1:F:237:LEU:HG	1.50	0.91
1:T:233:ALA:HB3	1:T:237:LEU:HG	1.50	0.91
1:p:233:ALA:HB3	1:p:237:LEU:HG	1.50	0.91
1:y:233:ALA:HB3	1:y:237:LEU:HG	1.50	0.91
1:R:233:ALA:HB3	1:R:237:LEU:HG	1.50	0.91
1:q:233:ALA:HB3	1:q:237:LEU:HG	1.50	0.91
1:3:233:ALA:HB3	1:3:237:LEU:HG	1.50	0.91
1:7:233:ALA:HB3	1:7:237:LEU:HG	1.50	0.91
1:H:233:ALA:HB3	1:H:237:LEU:HG	1.50	0.90
1:V:233:ALA:HB3	1:V:237:LEU:HG	1.50	0.90
1:Y:233:ALA:HB3	1:Y:237:LEU:HG	1.50	0.90
1:s:233:ALA:HB3	1:s:237:LEU:HG	1.50	0.90
1:U:233:ALA:HB3	1:U:237:LEU:HG	1.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:233:ALA:HB3	1:5:237:LEU:HG	1.50	0.90
1:M:233:ALA:HB3	1:M:237:LEU:HG	1.50	0.90
1:a:233:ALA:HB3	1:a:237:LEU:HG	1.50	0.90
1:h:233:ALA:HB3	1:h:237:LEU:HG	1.50	0.90
1:V:98:LEU:HD12	1:X:490:LEU:HB3	1.55	0.89
1:T:239:TRP:HZ3	1:T:242:VAL:C	1.82	0.88
1:m:239:TRP:HZ3	1:m:242:VAL:C	1.82	0.88
1:q:239:TRP:HZ3	1:q:242:VAL:C	1.82	0.88
1:R:239:TRP:HZ3	1:R:242:VAL:C	1.82	0.88
1:X:239:TRP:HZ3	1:X:242:VAL:C	1.82	0.88
1:i:239:TRP:HZ3	1:i:242:VAL:C	1.82	0.88
1:o:239:TRP:HZ3	1:o:242:VAL:C	1.82	0.88
1:N:239:TRP:HZ3	1:N:242:VAL:C	1.82	0.88
1:E:490:LEU:HB3	1:Q:98:LEU:HD12	1.56	0.88
1:w:490:LEU:HB3	1:x:98:LEU:HD12	1.56	0.88
1:E:239:TRP:HZ3	1:E:242:VAL:C	1.82	0.88
1:d:239:TRP:HZ3	1:d:242:VAL:C	1.82	0.88
1:k:239:TRP:HZ3	1:k:242:VAL:C	1.82	0.88
1:l:239:TRP:HZ3	1:l:242:VAL:C	1.82	0.88
1:n:239:TRP:HZ3	1:n:242:VAL:C	1.82	0.88
1:w:239:TRP:HZ3	1:w:242:VAL:C	1.82	0.88
1:D:98:LEU:HD12	1:P:490:LEU:HB3	1.56	0.88
1:D:239:TRP:HZ3	1:D:242:VAL:C	1.82	0.88
1:F:165:ASN:ND2	1:F:165:ASN:O	2.07	0.88
1:O:239:TRP:HZ3	1:O:242:VAL:C	1.82	0.88
1:T:490:LEU:HB3	1:d:98:LEU:HD12	1.56	0.88
1:V:490:LEU:HB3	1:e:98:LEU:HD12	1.56	0.88
1:d:165:ASN:ND2	1:d:165:ASN:O	2.07	0.88
1:j:490:LEU:HB3	1:k:98:LEU:HD12	1.56	0.88
1:m:490:LEU:HB3	1:n:98:LEU:HD12	1.56	0.88
1:y:165:ASN:ND2	1:y:165:ASN:O	2.07	0.88
1:O:165:ASN:O	1:O:165:ASN:ND2	2.07	0.88
1:R:165:ASN:O	1:R:165:ASN:ND2	2.08	0.88
1:U:239:TRP:HZ3	1:U:242:VAL:C	1.82	0.88
1:X:165:ASN:O	1:X:165:ASN:ND2	2.07	0.88
1:c:98:LEU:HD12	1:p:490:LEU:HB3	1.56	0.88
1:c:239:TRP:HZ3	1:c:242:VAL:C	1.82	0.88
1:l:165:ASN:ND2	1:l:165:ASN:O	2.07	0.88
1:o:165:ASN:O	1:o:165:ASN:ND2	2.07	0.88
1:5:239:TRP:HZ3	1:5:242:VAL:C	1.82	0.88
1:B:165:ASN:O	1:B:165:ASN:ND2	2.08	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:239:TRP:HZ3	1:H:242:VAL:C	1.82	0.87
1:N:165:ASN:ND2	1:N:165:ASN:O	2.07	0.87
1:Q:239:TRP:HZ3	1:Q:242:VAL:C	1.82	0.87
1:a:165:ASN:ND2	1:a:165:ASN:O	2.07	0.87
1:g:98:LEU:HD12	1:h:490:LEU:HB3	1.56	0.87
1:m:165:ASN:O	1:m:165:ASN:ND2	2.07	0.87
1:n:165:ASN:O	1:n:165:ASN:ND2	2.08	0.87
1:q:165:ASN:ND2	1:q:165:ASN:O	2.08	0.87
1:r:165:ASN:O	1:r:165:ASN:ND2	2.08	0.87
1:1:165:ASN:ND2	1:1:165:ASN:O	2.08	0.87
1:3:165:ASN:ND2	1:3:165:ASN:O	2.08	0.87
1:C:98:LEU:HD12	1:M:490:LEU:HB3	1.56	0.87
1:C:165:ASN:O	1:C:165:ASN:ND2	2.07	0.87
1:I:165:ASN:ND2	1:I:165:ASN:O	2.07	0.87
1:N:490:LEU:HB3	1:P:98:LEU:HD12	1.56	0.87
1:R:98:LEU:HD12	1:U:490:LEU:HB3	1.56	0.87
1:S:165:ASN:O	1:S:165:ASN:ND2	2.08	0.87
1:T:165:ASN:ND2	1:T:165:ASN:O	2.07	0.87
1:e:239:TRP:HZ3	1:e:242:VAL:C	1.82	0.87
1:g:165:ASN:O	1:g:165:ASN:ND2	2.07	0.87
1:i:165:ASN:ND2	1:i:165:ASN:O	2.07	0.87
1:i:490:LEU:HB3	1:j:98:LEU:HD12	1.56	0.87
1:s:239:TRP:HZ3	1:s:242:VAL:C	1.82	0.87
1:u:165:ASN:O	1:u:165:ASN:ND2	2.07	0.87
1:A:490:LEU:HB3	1:G:98:LEU:HD12	1.55	0.87
1:C:239:TRP:HZ3	1:C:242:VAL:C	1.82	0.87
1:M:165:ASN:O	1:M:165:ASN:ND2	2.07	0.87
1:V:165:ASN:ND2	1:V:165:ASN:O	2.07	0.87
1:Y:165:ASN:ND2	1:Y:165:ASN:O	2.07	0.87
1:a:490:LEU:HB3	1:8:98:LEU:HD12	1.56	0.87
1:o:490:LEU:HB3	1:p:98:LEU:HD12	1.56	0.87
1:p:165:ASN:O	1:p:165:ASN:ND2	2.07	0.87
1:q:98:LEU:HD12	1:s:490:LEU:HB3	1.56	0.87
1:r:490:LEU:HB3	1:s:98:LEU:HD12	1.57	0.87
1:x:239:TRP:HZ3	1:x:242:VAL:C	1.82	0.87
1:7:165:ASN:O	1:7:165:ASN:ND2	2.07	0.87
1:L:239:TRP:HZ3	1:L:242:VAL:C	1.82	0.87
1:R:490:LEU:HB3	1:S:98:LEU:HD12	1.56	0.87
1:Z:98:LEU:HD12	1:3:490:LEU:HB3	1.56	0.87
1:c:165:ASN:O	1:c:165:ASN:ND2	2.08	0.87
1:e:165:ASN:O	1:e:165:ASN:ND2	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:239:TRP:HZ3	1:g:242:VAL:C	1.82	0.87
1:h:165:ASN:O	1:h:165:ASN:ND2	2.07	0.87
1:q:490:LEU:HB3	1:r:98:LEU:HD12	1.57	0.87
1:t:98:LEU:HD12	1:v:490:LEU:HB3	1.56	0.87
1:z:239:TRP:HZ3	1:z:242:VAL:C	1.82	0.87
1:3:239:TRP:HZ3	1:3:242:VAL:C	1.82	0.87
1:6:490:LEU:HB3	1:7:98:LEU:HD12	1.56	0.87
1:G:239:TRP:HZ3	1:G:242:VAL:C	1.82	0.87
1:P:165:ASN:O	1:P:165:ASN:ND2	2.07	0.87
1:S:239:TRP:HZ3	1:S:242:VAL:C	1.82	0.87
1:S:490:LEU:HB3	1:U:98:LEU:HD12	1.57	0.87
1:W:490:LEU:HB3	1:Y:98:LEU:HD12	1.56	0.87
1:r:239:TRP:HZ3	1:r:242:VAL:C	1.82	0.87
1:t:239:TRP:HZ3	1:t:242:VAL:C	1.82	0.87
1:L:165:ASN:O	1:L:165:ASN:ND2	2.08	0.87
1:O:490:LEU:HB3	1:m:98:LEU:HD12	1.56	0.87
1:W:165:ASN:O	1:W:165:ASN:ND2	2.07	0.87
1:X:98:LEU:HD12	1:e:490:LEU:HB3	1.55	0.87
1:a:239:TRP:HZ3	1:a:242:VAL:C	1.82	0.87
1:j:165:ASN:O	1:j:165:ASN:ND2	2.07	0.87
1:j:239:TRP:HZ3	1:j:242:VAL:C	1.82	0.87
1:z:165:ASN:O	1:z:165:ASN:ND2	2.08	0.87
1:7:239:TRP:HZ3	1:7:242:VAL:C	1.82	0.87
1:A:98:LEU:HD12	1:I:490:LEU:HB3	1.55	0.87
1:W:239:TRP:HZ3	1:W:242:VAL:C	1.82	0.87
1:Y:239:TRP:HZ3	1:Y:242:VAL:C	1.82	0.87
1:4:165:ASN:O	1:4:165:ASN:ND2	2.07	0.87
1:6:165:ASN:ND2	1:6:165:ASN:O	2.07	0.87
1:6:239:TRP:HZ3	1:6:242:VAL:C	1.82	0.87
1:H:239:TRP:HZ3	1:H:242:VAL:N	1.71	0.87
1:y:239:TRP:HZ3	1:y:242:VAL:C	1.82	0.87
1:B:239:TRP:HZ3	1:B:242:VAL:C	1.82	0.87
1:E:239:TRP:HZ3	1:E:242:VAL:N	1.71	0.87
1:F:239:TRP:HZ3	1:F:242:VAL:C	1.82	0.87
1:K:165:ASN:O	1:K:165:ASN:ND2	2.07	0.87
1:K:490:LEU:HB3	1:a:98:LEU:HD12	1.56	0.87
1:P:239:TRP:HZ3	1:P:242:VAL:C	1.82	0.87
1:T:98:LEU:HD12	1:l:490:LEU:HB3	1.56	0.87
1:U:165:ASN:O	1:U:165:ASN:ND2	2.08	0.87
1:s:165:ASN:O	1:s:165:ASN:ND2	2.08	0.87
1:w:165:ASN:ND2	1:w:165:ASN:O	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:165:ASN:O	1:x:165:ASN:ND2	2.07	0.87
1:1:490:LEU:HB3	1:2:98:LEU:HD12	1.56	0.87
1:F:98:LEU:HD12	1:Q:490:LEU:HB3	1.56	0.86
1:J:239:TRP:HZ3	1:J:242:VAL:C	1.82	0.86
1:x:490:LEU:HB3	1:y:98:LEU:HD12	1.56	0.86
1:z:98:LEU:HD12	1:2:490:LEU:HB3	1.57	0.86
1:3:98:LEU:HD12	1:4:490:LEU:HB3	1.56	0.86
1:4:239:TRP:HZ3	1:4:242:VAL:C	1.82	0.86
1:5:239:TRP:HZ3	1:5:242:VAL:N	1.71	0.86
1:B:490:LEU:HB3	1:J:98:LEU:HD12	1.57	0.86
1:E:165:ASN:O	1:E:165:ASN:ND2	2.07	0.86
1:J:490:LEU:HB3	1:L:98:LEU:HD12	1.57	0.86
1:K:239:TRP:HZ3	1:K:242:VAL:C	1.82	0.86
1:Q:165:ASN:ND2	1:Q:165:ASN:O	2.07	0.86
1:d:490:LEU:HB3	1:l:98:LEU:HD12	1.56	0.86
1:i:98:LEU:HD12	1:k:490:LEU:HB3	1.56	0.86
1:u:239:TRP:HZ3	1:u:242:VAL:C	1.82	0.86
1:w:239:TRP:HZ3	1:w:242:VAL:N	1.71	0.86
1:1:239:TRP:HZ3	1:1:242:VAL:C	1.82	0.86
1:G:165:ASN:O	1:G:165:ASN:ND2	2.07	0.86
1:O:98:LEU:HD12	1:n:490:LEU:HB3	1.56	0.86
1:c:239:TRP:HZ3	1:c:242:VAL:N	1.71	0.86
1:D:490:LEU:HB3	1:N:98:LEU:HD12	1.56	0.86
1:E:98:LEU:HD12	1:F:490:LEU:HB3	1.56	0.86
1:Z:239:TRP:HZ3	1:Z:242:VAL:C	1.82	0.86
1:f:239:TRP:HZ3	1:f:242:VAL:C	1.82	0.86
1:t:165:ASN:ND2	1:t:165:ASN:O	2.07	0.86
1:2:239:TRP:HZ3	1:2:242:VAL:C	1.82	0.86
1:I:239:TRP:HZ3	1:I:242:VAL:C	1.82	0.86
1:V:239:TRP:HZ3	1:V:242:VAL:C	1.82	0.86
1:v:165:ASN:O	1:v:165:ASN:ND2	2.07	0.86
1:8:239:TRP:HZ3	1:8:242:VAL:C	1.82	0.86
1:A:165:ASN:ND2	1:A:165:ASN:O	2.07	0.86
1:C:490:LEU:HB3	1:b:98:LEU:HD12	1.56	0.86
1:G:490:LEU:HB3	1:I:98:LEU:HD12	1.56	0.86
1:b:239:TRP:HZ3	1:b:242:VAL:C	1.82	0.86
1:e:239:TRP:HZ3	1:e:242:VAL:N	1.71	0.86
1:t:490:LEU:HB3	1:u:98:LEU:HD12	1.56	0.86
1:w:98:LEU:HD12	1:y:490:LEU:HB3	1.56	0.86
1:H:165:ASN:O	1:H:165:ASN:ND2	2.07	0.86
1:b:165:ASN:O	1:b:165:ASN:ND2	2.08	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:98:LEU:HD12	1:g:490:LEU:HB3	1.56	0.86
1:h:239:TRP:HZ3	1:h:242:VAL:C	1.82	0.86
1:p:239:TRP:HZ3	1:p:242:VAL:C	1.82	0.86
1:1:239:TRP:HZ3	1:1:242:VAL:N	1.71	0.86
1:M:239:TRP:HZ3	1:M:242:VAL:C	1.82	0.86
1:f:165:ASN:O	1:f:165:ASN:ND2	2.07	0.86
1:k:165:ASN:O	1:k:165:ASN:ND2	2.07	0.86
1:K:98:LEU:HD12	1:8:490:LEU:HB3	1.56	0.86
1:Z:490:LEU:HB3	1:4:98:LEU:HD12	1.56	0.86
1:u:490:LEU:HB3	1:v:98:LEU:HD12	1.56	0.86
1:v:239:TRP:HZ3	1:v:242:VAL:C	1.82	0.86
1:5:165:ASN:O	1:5:165:ASN:ND2	2.07	0.86
1:D:165:ASN:O	1:D:165:ASN:ND2	2.07	0.86
1:M:239:TRP:HZ3	1:M:242:VAL:N	1.71	0.85
1:Z:165:ASN:O	1:Z:165:ASN:ND2	2.07	0.85
1:A:239:TRP:HZ3	1:A:242:VAL:C	1.82	0.85
1:c:490:LEU:HB3	1:o:98:LEU:HD12	1.56	0.85
1:h:239:TRP:HZ3	1:h:242:VAL:N	1.71	0.85
1:N:239:TRP:HZ3	1:N:242:VAL:N	1.71	0.85
1:T:92:HIS:HB3	1:T:239:TRP:HA	1.59	0.85
1:i:239:TRP:HZ3	1:i:242:VAL:N	1.71	0.85
1:8:165:ASN:O	1:8:165:ASN:ND2	2.07	0.85
1:f:490:LEU:HB3	1:h:98:LEU:HD12	1.56	0.85
1:m:92:HIS:HB3	1:m:239:TRP:HA	1.59	0.85
1:2:165:ASN:O	1:2:165:ASN:ND2	2.08	0.85
1:M:98:LEU:HD12	1:b:490:LEU:HB3	1.56	0.85
1:H:98:LEU:HD12	1:Y:490:LEU:HB3	1.56	0.85
1:H:490:LEU:HB3	1:W:98:LEU:HD12	1.56	0.85
1:J:165:ASN:O	1:J:165:ASN:ND2	2.08	0.85
1:L:92:HIS:HB3	1:L:239:TRP:HA	1.59	0.85
1:z:92:HIS:HB3	1:z:239:TRP:HA	1.59	0.85
1:A:92:HIS:HB3	1:A:239:TRP:HA	1.59	0.85
1:v:92:HIS:HB3	1:v:239:TRP:HA	1.59	0.85
1:5:490:LEU:HB3	1:6:98:LEU:HD12	1.56	0.85
1:O:92:HIS:HB3	1:O:239:TRP:HA	1.59	0.85
1:5:98:LEU:HD12	1:7:490:LEU:HB3	1.56	0.85
1:B:98:LEU:HD12	1:L:490:LEU:HB3	1.56	0.84
1:H:92:HIS:HB3	1:H:239:TRP:HA	1.59	0.84
1:l:92:HIS:HB3	1:l:239:TRP:HA	1.59	0.84
1:G:92:HIS:HB3	1:G:239:TRP:HA	1.59	0.84
1:I:92:HIS:HB3	1:I:239:TRP:HA	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:239:TRP:HZ3	1:2:242:VAL:N	1.71	0.84
1:V:92:HIS:HB3	1:V:239:TRP:HA	1.59	0.84
1:t:92:HIS:HB3	1:t:239:TRP:HA	1.59	0.84
1:u:92:HIS:HB3	1:u:239:TRP:HA	1.59	0.84
1:z:490:LEU:HB3	1:1:98:LEU:HD12	1.57	0.84
1:C:92:HIS:HB3	1:C:239:TRP:HA	1.59	0.84
1:C:239:TRP:HZ3	1:C:242:VAL:N	1.71	0.84
1:D:92:HIS:HB3	1:D:239:TRP:HA	1.59	0.84
1:J:239:TRP:HZ3	1:J:242:VAL:N	1.71	0.84
1:k:92:HIS:HB3	1:k:239:TRP:HA	1.59	0.84
1:5:92:HIS:HB3	1:5:239:TRP:HA	1.59	0.84
1:V:230:GLN:HA	1:X:497:LEU:HD11	1.59	0.84
1:g:92:HIS:HB3	1:g:239:TRP:HA	1.59	0.84
1:T:239:TRP:HZ3	1:T:242:VAL:N	1.71	0.84
1:p:92:HIS:HB3	1:p:239:TRP:HA	1.59	0.84
1:y:92:HIS:HB3	1:y:239:TRP:HA	1.59	0.84
1:F:92:HIS:HB3	1:F:239:TRP:HA	1.59	0.84
1:f:239:TRP:HZ3	1:f:242:VAL:N	1.71	0.84
1:g:239:TRP:HZ3	1:g:242:VAL:N	1.71	0.84
1:2:92:HIS:HB3	1:2:239:TRP:HA	1.59	0.84
1:c:92:HIS:HB3	1:c:239:TRP:HA	1.59	0.84
1:m:239:TRP:HZ3	1:m:242:VAL:N	1.71	0.84
1:J:92:HIS:HB3	1:J:239:TRP:HA	1.59	0.84
1:1:92:HIS:HB3	1:1:239:TRP:HA	1.59	0.84
1:6:92:HIS:HB3	1:6:239:TRP:HA	1.59	0.84
1:F:239:TRP:HZ3	1:F:242:VAL:N	1.71	0.84
1:R:92:HIS:HB3	1:R:239:TRP:HA	1.59	0.84
1:Y:92:HIS:HB3	1:Y:239:TRP:HA	1.59	0.84
1:b:239:TRP:HZ3	1:b:242:VAL:N	1.71	0.84
1:e:92:HIS:HB3	1:e:239:TRP:HA	1.59	0.84
1:n:92:HIS:HB3	1:n:239:TRP:HA	1.59	0.84
1:y:239:TRP:HZ3	1:y:242:VAL:N	1.71	0.84
1:B:92:HIS:HB3	1:B:239:TRP:HA	1.59	0.83
1:R:239:TRP:HZ3	1:R:242:VAL:N	1.71	0.83
1:U:92:HIS:HB3	1:U:239:TRP:HA	1.59	0.83
1:V:239:TRP:HZ3	1:V:242:VAL:N	1.71	0.83
1:q:92:HIS:HB3	1:q:239:TRP:HA	1.59	0.83
1:G:92:HIS:HD1	1:G:239:TRP:HB2	1.43	0.83
1:G:497:LEU:HD11	1:I:230:GLN:HA	1.60	0.83
1:I:92:HIS:HD1	1:I:239:TRP:HB2	1.43	0.83
1:L:92:HIS:HD1	1:L:239:TRP:HB2	1.43	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:92:HIS:HB3	1:W:239:TRP:HA	1.59	0.83
1:s:92:HIS:HB3	1:s:239:TRP:HA	1.59	0.83
1:t:92:HIS:HD1	1:t:239:TRP:HB2	1.43	0.83
1:t:497:LEU:HD11	1:u:230:GLN:HA	1.60	0.83
1:u:92:HIS:HD1	1:u:239:TRP:HB2	1.43	0.83
1:d:92:HIS:HB3	1:d:239:TRP:HA	1.59	0.83
1:7:92:HIS:HB3	1:7:239:TRP:HA	1.59	0.83
1:Q:92:HIS:HB3	1:Q:239:TRP:HA	1.59	0.83
1:p:239:TRP:HZ3	1:p:242:VAL:N	1.71	0.83
1:z:92:HIS:HD1	1:z:239:TRP:HB2	1.43	0.83
1:q:239:TRP:HZ3	1:q:242:VAL:N	1.71	0.83
1:w:92:HIS:HB3	1:w:239:TRP:HA	1.59	0.83
1:x:92:HIS:HB3	1:x:239:TRP:HA	1.59	0.83
1:K:92:HIS:HB3	1:K:239:TRP:HA	1.59	0.83
1:E:92:HIS:HB3	1:E:239:TRP:HA	1.59	0.83
1:E:230:GLN:HA	1:F:497:LEU:HD11	1.60	0.83
1:S:92:HIS:HB3	1:S:239:TRP:HA	1.59	0.83
1:M:92:HIS:HB3	1:M:239:TRP:HA	1.59	0.83
1:W:239:TRP:HZ3	1:W:242:VAL:N	1.71	0.83
1:j:92:HIS:HB3	1:j:239:TRP:HA	1.59	0.83
1:r:92:HIS:HB3	1:r:239:TRP:HA	1.59	0.83
1:w:230:GLN:HA	1:y:497:LEU:HD11	1.60	0.83
1:4:92:HIS:HB3	1:4:239:TRP:HA	1.59	0.83
1:C:230:GLN:HA	1:M:497:LEU:HD11	1.61	0.83
1:E:497:LEU:HD11	1:Q:230:GLN:HA	1.60	0.83
1:G:239:TRP:HZ3	1:G:242:VAL:N	1.71	0.83
1:P:92:HIS:HB3	1:P:239:TRP:HA	1.59	0.83
1:g:230:GLN:HA	1:h:497:LEU:HD11	1.61	0.83
1:w:497:LEU:HD11	1:x:230:GLN:HA	1.60	0.83
1:8:92:HIS:HB3	1:8:239:TRP:HA	1.59	0.83
1:d:92:HIS:HD1	1:d:239:TRP:HB2	1.43	0.83
1:f:92:HIS:HB3	1:f:239:TRP:HA	1.59	0.83
1:h:92:HIS:HB3	1:h:239:TRP:HA	1.59	0.83
1:3:92:HIS:HB3	1:3:239:TRP:HA	1.59	0.83
1:F:230:GLN:HA	1:Q:497:LEU:HD11	1.61	0.82
1:o:497:LEU:HD11	1:p:230:GLN:HA	1.61	0.82
1:5:497:LEU:HD11	1:6:230:GLN:HA	1.61	0.82
1:6:239:TRP:HZ3	1:6:242:VAL:N	1.71	0.82
1:H:497:LEU:HD11	1:W:230:GLN:HA	1.61	0.82
1:X:92:HIS:HB3	1:X:239:TRP:HA	1.59	0.82
1:Z:92:HIS:HB3	1:Z:239:TRP:HA	1.59	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:92:HIS:HB3	1:a:239:TRP:HA	1.59	0.82
1:q:92:HIS:HD1	1:q:239:TRP:HB2	1.43	0.82
1:x:497:LEU:HD11	1:y:230:GLN:HA	1.61	0.82
1:D:230:GLN:HA	1:P:497:LEU:HD11	1.61	0.82
1:Z:239:TRP:HZ3	1:Z:242:VAL:N	1.71	0.82
1:c:230:GLN:HA	1:p:497:LEU:HD11	1.61	0.82
1:i:230:GLN:HA	1:k:497:LEU:HD11	1.61	0.82
1:j:497:LEU:HD11	1:k:230:GLN:HA	1.61	0.82
1:n:92:HIS:HD1	1:n:239:TRP:HB2	1.43	0.82
1:o:92:HIS:HB3	1:o:239:TRP:HA	1.59	0.82
1:z:497:LEU:HD11	1:1:230:GLN:HA	1.61	0.82
1:D:497:LEU:HD11	1:N:230:GLN:HA	1.61	0.82
1:R:92:HIS:HD1	1:R:239:TRP:HB2	1.43	0.82
1:b:92:HIS:HB3	1:b:239:TRP:HA	1.59	0.82
1:t:239:TRP:HZ3	1:t:242:VAL:N	1.71	0.82
1:5:230:GLN:HA	1:7:497:LEU:HD11	1.61	0.82
1:B:230:GLN:HA	1:L:497:LEU:HD11	1.62	0.82
1:H:230:GLN:HA	1:Y:497:LEU:HD11	1.61	0.82
1:K:497:LEU:HD11	1:a:230:GLN:HA	1.61	0.82
1:V:497:LEU:HD11	1:e:230:GLN:HA	1.61	0.82
1:B:92:HIS:HD1	1:B:239:TRP:HB2	1.43	0.82
1:3:230:GLN:HA	1:4:497:LEU:HD11	1.61	0.82
1:A:497:LEU:HD11	1:G:230:GLN:HA	1.60	0.82
1:M:230:GLN:HA	1:b:497:LEU:HD11	1.61	0.82
1:N:92:HIS:HB3	1:N:239:TRP:HA	1.59	0.82
1:f:497:LEU:HD11	1:h:230:GLN:HA	1.61	0.82
1:Z:230:GLN:HA	1:3:497:LEU:HD11	1.61	0.82
1:8:239:TRP:HZ3	1:8:242:VAL:N	1.71	0.82
1:O:230:GLN:HA	1:n:497:LEU:HD11	1.61	0.82
1:d:239:TRP:HZ3	1:d:242:VAL:N	1.71	0.82
1:O:497:LEU:HD11	1:m:230:GLN:HA	1.61	0.82
1:T:230:GLN:HA	1:l:497:LEU:HD11	1.61	0.82
1:a:497:LEU:HD11	1:8:230:GLN:HA	1.61	0.82
1:d:497:LEU:HD11	1:l:230:GLN:HA	1.61	0.82
1:i:92:HIS:HB3	1:i:239:TRP:HA	1.59	0.82
1:t:230:GLN:HA	1:v:497:LEU:HD11	1.60	0.82
1:7:239:TRP:HZ3	1:7:242:VAL:N	1.71	0.82
1:r:239:TRP:HZ3	1:r:242:VAL:N	1.71	0.81
1:r:497:LEU:HD11	1:s:230:GLN:HA	1.61	0.81
1:1:497:LEU:HD11	1:2:230:GLN:HA	1.62	0.81
1:A:230:GLN:HA	1:I:497:LEU:HD11	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:497:LEU:HD11	1:J:230:GLN:HA	1.62	0.81
1:I:239:TRP:HZ3	1:I:242:VAL:N	1.71	0.81
1:S:497:LEU:HD11	1:U:230:GLN:HA	1.61	0.81
1:X:230:GLN:HA	1:e:497:LEU:HD11	1.60	0.81
1:Z:497:LEU:HD11	1:4:230:GLN:HA	1.61	0.81
1:u:239:TRP:HZ3	1:u:242:VAL:N	1.71	0.81
1:K:230:GLN:HA	1:8:497:LEU:HD11	1.61	0.81
1:n:239:TRP:HZ3	1:n:242:VAL:N	1.71	0.81
1:q:230:GLN:HA	1:s:497:LEU:HD11	1.62	0.81
1:5:92:HIS:HD1	1:5:239:TRP:HB2	1.43	0.81
1:Y:239:TRP:HZ3	1:Y:242:VAL:N	1.71	0.81
1:H:92:HIS:HD1	1:H:239:TRP:HB2	1.43	0.81
1:R:230:GLN:HA	1:U:497:LEU:HD11	1.61	0.81
1:T:497:LEU:HD11	1:d:230:GLN:HA	1.61	0.81
1:b:92:HIS:HD1	1:b:239:TRP:HB2	1.43	0.81
1:N:497:LEU:HD11	1:P:230:GLN:HA	1.61	0.81
1:S:239:TRP:HZ3	1:S:242:VAL:N	1.71	0.81
1:i:497:LEU:HD11	1:j:230:GLN:HA	1.61	0.81
1:m:497:LEU:HD11	1:n:230:GLN:HA	1.61	0.81
1:C:497:LEU:HD11	1:b:230:GLN:HA	1.61	0.81
1:L:239:TRP:HZ3	1:L:242:VAL:N	1.71	0.81
1:W:497:LEU:HD11	1:Y:230:GLN:HA	1.61	0.81
1:u:497:LEU:HD11	1:v:230:GLN:HA	1.61	0.81
1:6:497:LEU:HD11	1:7:230:GLN:HA	1.61	0.81
1:z:239:TRP:HZ3	1:z:242:VAL:N	1.71	0.81
1:K:239:TRP:HZ3	1:K:242:VAL:N	1.71	0.80
1:c:497:LEU:HD11	1:o:230:GLN:HA	1.61	0.80
1:f:230:GLN:HA	1:g:497:LEU:HD11	1.61	0.80
1:O:239:TRP:HZ3	1:O:242:VAL:N	1.71	0.80
1:V:92:HIS:HD1	1:V:239:TRP:HB2	1.43	0.80
1:p:92:HIS:HD1	1:p:239:TRP:HB2	1.43	0.80
1:4:239:TRP:HZ3	1:4:242:VAL:N	1.71	0.80
1:S:92:HIS:HD1	1:S:239:TRP:HB2	1.43	0.80
1:U:239:TRP:HZ3	1:U:242:VAL:N	1.71	0.80
1:s:239:TRP:HZ3	1:s:242:VAL:N	1.71	0.80
1:3:92:HIS:HD1	1:3:239:TRP:HB2	1.43	0.80
1:K:92:HIS:HD1	1:K:239:TRP:HB2	1.43	0.80
1:4:92:HIS:HD1	1:4:239:TRP:HB2	1.43	0.80
1:D:239:TRP:HZ3	1:D:242:VAL:N	1.71	0.80
1:J:497:LEU:HD11	1:L:230:GLN:HA	1.61	0.80
1:l:239:TRP:HZ3	1:l:242:VAL:N	1.71	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:92:HIS:HD1	1:T:239:TRP:HB2	1.43	0.80
1:a:92:HIS:HD1	1:a:239:TRP:HB2	1.43	0.80
1:r:92:HIS:HD1	1:r:239:TRP:HB2	1.43	0.80
1:z:230:GLN:HA	1:2:497:LEU:HD11	1.61	0.80
1:k:239:TRP:HZ3	1:k:242:VAL:N	1.71	0.80
1:A:239:TRP:HZ3	1:A:242:VAL:N	1.71	0.79
1:R:497:LEU:HD11	1:S:230:GLN:HA	1.62	0.79
1:x:92:HIS:HD1	1:x:239:TRP:HB2	1.43	0.79
1:P:239:TRP:HZ3	1:P:242:VAL:N	1.71	0.79
1:U:192:THR:H	1:U:556:GLN:HE22	1.31	0.79
1:q:497:LEU:HD11	1:r:230:GLN:HA	1.62	0.79
1:s:192:THR:H	1:s:556:GLN:HE22	1.31	0.79
1:2:192:THR:H	1:2:556:GLN:HE22	1.31	0.79
1:C:192:THR:H	1:C:556:GLN:HE22	1.31	0.79
1:H:192:THR:H	1:H:556:GLN:HE22	1.31	0.79
1:J:192:THR:H	1:J:556:GLN:HE22	1.31	0.79
1:g:192:THR:H	1:g:556:GLN:HE22	1.31	0.79
1:v:239:TRP:HZ3	1:v:242:VAL:N	1.71	0.79
1:w:192:THR:H	1:w:556:GLN:HE22	1.31	0.79
1:y:192:THR:H	1:y:556:GLN:HE22	1.31	0.79
1:5:192:THR:H	1:5:556:GLN:HE22	1.31	0.79
1:E:192:THR:H	1:E:556:GLN:HE22	1.31	0.79
1:F:192:THR:H	1:F:556:GLN:HE22	1.31	0.79
1:Q:92:HIS:HD1	1:Q:239:TRP:HB2	1.43	0.79
1:X:92:HIS:HD1	1:X:239:TRP:HB2	1.43	0.79
1:j:239:TRP:HZ3	1:j:242:VAL:N	1.71	0.79
1:G:192:THR:H	1:G:556:GLN:HE22	1.31	0.79
1:t:192:THR:H	1:t:556:GLN:HE22	1.31	0.79
1:d:192:THR:H	1:d:556:GLN:HE22	1.31	0.79
1:o:92:HIS:HD1	1:o:239:TRP:HB2	1.43	0.78
1:K:192:THR:H	1:K:556:GLN:HE22	1.31	0.78
1:h:192:THR:H	1:h:556:GLN:HE22	1.31	0.78
1:m:192:THR:H	1:m:556:GLN:HE22	1.31	0.78
1:n:192:THR:H	1:n:556:GLN:HE22	1.31	0.78
1:L:192:THR:H	1:L:556:GLN:HE22	1.31	0.78
1:T:192:THR:H	1:T:556:GLN:HE22	1.31	0.78
1:4:192:THR:H	1:4:556:GLN:HE22	1.31	0.78
1:M:192:THR:H	1:M:556:GLN:HE22	1.31	0.78
1:V:192:THR:H	1:V:556:GLN:HE22	1.31	0.78
1:p:192:THR:H	1:p:556:GLN:HE22	1.31	0.78
1:z:192:THR:H	1:z:556:GLN:HE22	1.31	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:192:THR:H	1:X:556:GLN:HE22	1.31	0.78
1:a:239:TRP:HZ3	1:a:242:VAL:N	1.71	0.78
1:c:192:THR:H	1:c:556:GLN:HE22	1.31	0.78
1:k:192:THR:H	1:k:556:GLN:HE22	1.31	0.78
1:o:192:THR:H	1:o:556:GLN:HE22	1.31	0.78
1:A:192:THR:H	1:A:556:GLN:HE22	1.31	0.78
1:D:192:THR:H	1:D:556:GLN:HE22	1.31	0.78
1:E:287:LYS:O	1:E:640:ARG:HD3	1.84	0.78
1:V:287:LYS:O	1:V:640:ARG:HD3	1.84	0.78
1:W:287:LYS:O	1:W:640:ARG:HD3	1.84	0.78
1:e:192:THR:H	1:e:556:GLN:HE22	1.31	0.78
1:h:287:LYS:O	1:h:640:ARG:HD3	1.84	0.78
1:6:287:LYS:O	1:6:640:ARG:HD3	1.84	0.78
1:M:287:LYS:O	1:M:640:ARG:HD3	1.84	0.78
1:p:287:LYS:O	1:p:640:ARG:HD3	1.84	0.78
1:q:287:LYS:O	1:q:640:ARG:HD3	1.84	0.78
1:w:287:LYS:O	1:w:640:ARG:HD3	1.84	0.78
1:R:287:LYS:O	1:R:640:ARG:HD3	1.84	0.78
1:S:287:LYS:O	1:S:640:ARG:HD3	1.84	0.78
1:Z:287:LYS:O	1:Z:640:ARG:HD3	1.84	0.78
1:v:192:THR:H	1:v:556:GLN:HE22	1.31	0.78
1:8:287:LYS:O	1:8:640:ARG:HD3	1.84	0.78
1:B:287:LYS:O	1:B:640:ARG:HD3	1.84	0.77
1:r:287:LYS:O	1:r:640:ARG:HD3	1.84	0.77
1:L:287:LYS:O	1:L:640:ARG:HD3	1.84	0.77
1:O:287:LYS:O	1:O:640:ARG:HD3	1.84	0.77
1:z:287:LYS:O	1:z:640:ARG:HD3	1.84	0.77
1:1:287:LYS:O	1:1:640:ARG:HD3	1.84	0.77
1:3:239:TRP:HZ3	1:3:242:VAL:N	1.71	0.77
1:3:287:LYS:O	1:3:640:ARG:HD3	1.84	0.77
1:J:287:LYS:O	1:J:640:ARG:HD3	1.84	0.77
1:a:287:LYS:O	1:a:640:ARG:HD3	1.84	0.77
1:d:287:LYS:O	1:d:640:ARG:HD3	1.84	0.77
1:l:287:LYS:O	1:l:640:ARG:HD3	1.84	0.77
1:2:287:LYS:O	1:2:640:ARG:HD3	1.84	0.77
1:5:287:LYS:O	1:5:640:ARG:HD3	1.84	0.77
1:H:287:LYS:O	1:H:640:ARG:HD3	1.84	0.77
1:a:192:THR:H	1:a:556:GLN:HE22	1.31	0.77
1:n:287:LYS:O	1:n:640:ARG:HD3	1.84	0.77
1:3:192:THR:H	1:3:556:GLN:HE22	1.31	0.77
1:Y:287:LYS:O	1:Y:640:ARG:HD3	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:287:LYS:O	1:Q:640:ARG:HD3	1.84	0.77
1:Z:192:THR:H	1:Z:556:GLN:HE22	1.31	0.77
1:f:192:THR:H	1:f:556:GLN:HE22	1.31	0.77
1:x:287:LYS:O	1:x:640:ARG:HD3	1.84	0.77
1:P:192:THR:H	1:P:556:GLN:HE22	1.31	0.77
1:b:192:THR:H	1:b:556:GLN:HE22	1.31	0.77
1:I:192:THR:H	1:I:556:GLN:HE22	1.31	0.77
1:Q:192:THR:H	1:Q:556:GLN:HE22	1.31	0.77
1:T:287:LYS:O	1:T:640:ARG:HD3	1.84	0.77
1:U:287:LYS:O	1:U:640:ARG:HD3	1.84	0.77
1:f:287:LYS:O	1:f:640:ARG:HD3	1.84	0.77
1:j:287:LYS:O	1:j:640:ARG:HD3	1.84	0.77
1:x:192:THR:H	1:x:556:GLN:HE22	1.31	0.77
1:7:287:LYS:O	1:7:640:ARG:HD3	1.84	0.77
1:A:287:LYS:O	1:A:640:ARG:HD3	1.84	0.77
1:b:287:LYS:O	1:b:640:ARG:HD3	1.84	0.77
1:e:287:LYS:O	1:e:640:ARG:HD3	1.84	0.77
1:j:192:THR:H	1:j:556:GLN:HE22	1.31	0.77
1:m:287:LYS:O	1:m:640:ARG:HD3	1.84	0.77
1:u:192:THR:H	1:u:556:GLN:HE22	1.31	0.77
1:v:287:LYS:O	1:v:640:ARG:HD3	1.84	0.77
1:F:287:LYS:O	1:F:640:ARG:HD3	1.84	0.77
1:P:287:LYS:O	1:P:640:ARG:HD3	1.84	0.77
1:c:287:LYS:O	1:c:640:ARG:HD3	1.84	0.77
1:s:287:LYS:O	1:s:640:ARG:HD3	1.84	0.77
1:8:192:THR:H	1:8:556:GLN:HE22	1.31	0.77
1:r:192:THR:H	1:r:556:GLN:HE22	1.31	0.76
1:y:287:LYS:O	1:y:640:ARG:HD3	1.84	0.76
1:N:287:LYS:O	1:N:640:ARG:HD3	1.84	0.76
1:S:192:THR:H	1:S:556:GLN:HE22	1.31	0.76
1:i:287:LYS:O	1:i:640:ARG:HD3	1.84	0.76
1:k:287:LYS:O	1:k:640:ARG:HD3	1.84	0.76
1:6:192:THR:H	1:6:556:GLN:HE22	1.31	0.76
1:D:287:LYS:O	1:D:640:ARG:HD3	1.84	0.76
1:g:287:LYS:O	1:g:640:ARG:HD3	1.84	0.76
1:I:287:LYS:O	1:I:640:ARG:HD3	1.84	0.76
1:W:192:THR:H	1:W:556:GLN:HE22	1.31	0.76
1:q:192:THR:H	1:q:556:GLN:HE22	1.31	0.76
1:C:287:LYS:O	1:C:640:ARG:HD3	1.84	0.76
1:o:287:LYS:O	1:o:640:ARG:HD3	1.84	0.76
1:u:287:LYS:O	1:u:640:ARG:HD3	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:96:LEU:HD23	1:D:96:LEU:N	2.01	0.76
1:Q:239:TRP:HZ3	1:Q:242:VAL:N	1.71	0.76
1:l:192:THR:H	1:l:556:GLN:HE22	1.31	0.76
1:x:239:TRP:HZ3	1:x:242:VAL:N	1.71	0.76
1:F:96:LEU:HD23	1:F:96:LEU:N	2.01	0.76
1:O:192:THR:H	1:O:556:GLN:HE22	1.31	0.76
1:R:192:THR:H	1:R:556:GLN:HE22	1.31	0.76
1:X:287:LYS:O	1:X:640:ARG:HD3	1.84	0.76
1:k:96:LEU:HD23	1:k:96:LEU:N	2.01	0.76
1:w:96:LEU:HD23	1:w:96:LEU:N	2.01	0.76
1:y:96:LEU:HD23	1:y:96:LEU:N	2.01	0.76
1:E:96:LEU:HD23	1:E:96:LEU:N	2.01	0.76
1:J:96:LEU:HD23	1:J:96:LEU:N	2.01	0.76
1:U:96:LEU:HD23	1:U:96:LEU:N	2.01	0.76
1:Z:96:LEU:HD23	1:Z:96:LEU:N	2.01	0.76
1:r:96:LEU:HD23	1:r:96:LEU:N	2.01	0.76
1:8:96:LEU:HD23	1:8:96:LEU:N	2.01	0.76
1:S:96:LEU:HD23	1:S:96:LEU:N	2.01	0.76
1:s:96:LEU:HD23	1:s:96:LEU:N	2.01	0.76
1:2:96:LEU:HD23	1:2:96:LEU:N	2.01	0.76
1:4:287:LYS:O	1:4:640:ARG:HD3	1.84	0.76
1:K:287:LYS:O	1:K:640:ARG:HD3	1.84	0.75
1:N:192:THR:H	1:N:556:GLN:HE22	1.31	0.75
1:O:96:LEU:HD23	1:O:96:LEU:N	2.01	0.75
1:i:192:THR:H	1:i:556:GLN:HE22	1.31	0.75
1:t:287:LYS:O	1:t:640:ARG:HD3	1.84	0.75
1:i:96:LEU:HD23	1:i:96:LEU:N	2.01	0.75
1:l:96:LEU:HD23	1:l:96:LEU:N	2.01	0.75
1:o:239:TRP:HZ3	1:o:242:VAL:N	1.71	0.75
1:u:96:LEU:HD23	1:u:96:LEU:N	2.01	0.75
1:N:96:LEU:HD23	1:N:96:LEU:N	2.01	0.75
1:X:239:TRP:HZ3	1:X:242:VAL:N	1.71	0.75
1:4:96:LEU:HD23	1:4:96:LEU:N	2.01	0.75
1:G:287:LYS:O	1:G:640:ARG:HD3	1.84	0.75
1:b:96:LEU:HD23	1:b:96:LEU:N	2.01	0.75
1:c:96:LEU:HD23	1:c:96:LEU:N	2.01	0.75
1:K:96:LEU:HD23	1:K:96:LEU:N	2.01	0.75
1:P:96:LEU:HD23	1:P:96:LEU:N	2.01	0.75
1:a:96:LEU:HD23	1:a:96:LEU:N	2.01	0.75
1:e:96:LEU:HD23	1:e:96:LEU:N	2.01	0.75
1:1:192:THR:H	1:1:556:GLN:HE22	1.31	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:96:LEU:HD23	1:Q:96:LEU:N	2.01	0.75
1:f:96:LEU:HD23	1:f:96:LEU:N	2.01	0.75
1:5:228:ASN:ND2	1:7:387:LYS:O	2.18	0.75
1:5:451:ILE:HG21	1:7:327:GLN:HB3	1.69	0.75
1:B:192:THR:H	1:B:556:GLN:HE22	1.31	0.75
1:B:451:ILE:HG21	1:L:327:GLN:HB3	1.69	0.75
1:H:228:ASN:ND2	1:Y:387:LYS:O	2.18	0.75
1:H:451:ILE:HG21	1:Y:327:GLN:HB3	1.69	0.75
1:K:451:ILE:HG21	1:8:327:GLN:HB3	1.69	0.75
1:V:96:LEU:HD23	1:V:96:LEU:N	2.01	0.75
1:c:451:ILE:HG21	1:p:327:GLN:HB3	1.69	0.75
1:j:96:LEU:HD23	1:j:96:LEU:N	2.01	0.75
1:o:327:GLN:HB3	1:p:451:ILE:HG21	1.69	0.75
1:z:327:GLN:HB3	1:1:451:ILE:HG21	1.69	0.75
1:3:96:LEU:HD23	1:3:96:LEU:N	2.01	0.75
1:B:96:LEU:HD23	1:B:96:LEU:N	2.01	0.75
1:F:451:ILE:HG21	1:Q:327:GLN:HB3	1.69	0.75
1:O:451:ILE:HG21	1:n:327:GLN:HB3	1.69	0.75
1:Y:96:LEU:HD23	1:Y:96:LEU:N	2.01	0.75
1:Z:327:GLN:HB3	1:4:451:ILE:HG21	1.69	0.75
1:p:96:LEU:HD23	1:p:96:LEU:N	2.01	0.75
1:x:96:LEU:HD23	1:x:96:LEU:N	2.01	0.75
1:x:327:GLN:HB3	1:y:451:ILE:HG21	1.69	0.75
1:B:327:GLN:HB3	1:J:451:ILE:HG21	1.69	0.75
1:R:327:GLN:HB3	1:S:451:ILE:HG21	1.69	0.75
1:V:327:GLN:HB3	1:e:451:ILE:HG21	1.69	0.75
1:Y:192:THR:H	1:Y:556:GLN:HE22	1.31	0.75
1:d:327:GLN:HB3	1:l:451:ILE:HG21	1.69	0.75
1:q:327:GLN:HB3	1:r:451:ILE:HG21	1.69	0.75
1:1:327:GLN:HB3	1:2:451:ILE:HG21	1.69	0.75
1:M:92:HIS:CG	1:M:239:TRP:HB2	2.22	0.74
1:c:92:HIS:CG	1:c:239:TRP:HB2	2.22	0.74
1:h:92:HIS:CG	1:h:239:TRP:HB2	2.22	0.74
1:q:92:HIS:CG	1:q:239:TRP:HB2	2.22	0.74
1:1:96:LEU:HD23	1:1:96:LEU:N	2.01	0.74
1:7:96:LEU:HD23	1:7:96:LEU:N	2.01	0.74
1:8:92:HIS:CG	1:8:239:TRP:HB2	2.22	0.74
1:B:92:HIS:CG	1:B:239:TRP:HB2	2.22	0.74
1:C:92:HIS:CG	1:C:239:TRP:HB2	2.22	0.74
1:R:92:HIS:CG	1:R:239:TRP:HB2	2.22	0.74
1:X:96:LEU:HD23	1:X:96:LEU:N	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:92:HIS:CG	1:Z:239:TRP:HB2	2.23	0.74
1:a:92:HIS:CG	1:a:239:TRP:HB2	2.23	0.74
1:e:92:HIS:CG	1:e:239:TRP:HB2	2.22	0.74
1:g:92:HIS:CG	1:g:239:TRP:HB2	2.22	0.74
1:w:475:GLU:HG3	1:x:224:ASN:HD21	1.53	0.74
1:1:92:HIS:CG	1:1:239:TRP:HB2	2.22	0.74
1:E:475:GLU:HG3	1:Q:224:ASN:HD21	1.53	0.74
1:G:96:LEU:HD23	1:G:96:LEU:N	2.01	0.74
1:H:327:GLN:HB3	1:W:451:ILE:HG21	1.69	0.74
1:o:96:LEU:HD23	1:o:96:LEU:N	2.01	0.74
1:t:96:LEU:HD23	1:t:96:LEU:N	2.01	0.74
1:3:92:HIS:CG	1:3:239:TRP:HB2	2.23	0.74
1:5:327:GLN:HB3	1:6:451:ILE:HG21	1.69	0.74
1:6:327:GLN:HB3	1:7:451:ILE:HG21	1.69	0.74
1:J:92:HIS:CG	1:J:239:TRP:HB2	2.22	0.74
1:K:327:GLN:HB3	1:a:451:ILE:HG21	1.69	0.74
1:W:96:LEU:HD23	1:W:96:LEU:N	2.01	0.74
1:W:327:GLN:HB3	1:Y:451:ILE:HG21	1.69	0.74
1:J:327:GLN:HB3	1:L:451:ILE:HG21	1.69	0.74
1:K:92:HIS:CG	1:K:239:TRP:HB2	2.23	0.74
1:M:451:ILE:HG21	1:b:327:GLN:HB3	1.69	0.74
1:f:327:GLN:HB3	1:h:451:ILE:HG21	1.69	0.74
1:2:92:HIS:CG	1:2:239:TRP:HB2	2.22	0.74
1:F:224:ASN:HD21	1:Q:475:GLU:HG3	1.53	0.74
1:S:327:GLN:HB3	1:U:451:ILE:HG21	1.69	0.74
1:c:327:GLN:HB3	1:o:451:ILE:HG21	1.69	0.74
1:g:451:ILE:HG21	1:h:327:GLN:HB3	1.69	0.74
1:i:451:ILE:HG21	1:k:327:GLN:HB3	1.69	0.74
1:o:387:LYS:O	1:p:228:ASN:ND2	2.18	0.74
1:r:327:GLN:HB3	1:s:451:ILE:HG21	1.69	0.74
1:t:451:ILE:HG21	1:v:327:GLN:HB3	1.70	0.74
1:v:92:HIS:CG	1:v:239:TRP:HB2	2.22	0.74
1:z:451:ILE:HG21	1:2:327:GLN:HB3	1.69	0.74
1:3:451:ILE:HG21	1:4:327:GLN:HB3	1.69	0.74
1:4:92:HIS:CG	1:4:239:TRP:HB2	2.23	0.74
1:6:96:LEU:HD23	1:6:96:LEU:N	2.01	0.74
1:7:192:THR:H	1:7:556:GLN:HE22	1.31	0.74
1:A:96:LEU:HD23	1:A:96:LEU:N	2.01	0.74
1:A:327:GLN:HB3	1:G:451:ILE:HG21	1.69	0.74
1:B:224:ASN:HD21	1:L:475:GLU:HG3	1.53	0.74
1:C:451:ILE:HG21	1:M:327:GLN:HB3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:92:HIS:CG	1:D:239:TRP:HB2	2.22	0.74
1:D:327:GLN:HB3	1:N:451:ILE:HG21	1.69	0.74
1:M:224:ASN:HD21	1:b:475:GLU:HG3	1.53	0.74
1:f:475:GLU:HG3	1:h:224:ASN:HD21	1.53	0.74
1:k:92:HIS:CG	1:k:239:TRP:HB2	2.22	0.74
1:u:327:GLN:HB3	1:v:451:ILE:HG21	1.69	0.74
1:w:92:HIS:CG	1:w:239:TRP:HB2	2.23	0.74
1:x:475:GLU:HG3	1:y:224:ASN:HD21	1.53	0.74
1:z:96:LEU:HD23	1:z:96:LEU:N	2.01	0.74
1:z:475:GLU:HG3	1:1:224:ASN:HD21	1.53	0.74
1:A:92:HIS:CG	1:A:239:TRP:HB2	2.22	0.74
1:E:92:HIS:CG	1:E:239:TRP:HB2	2.23	0.74
1:G:92:HIS:CG	1:G:239:TRP:HB2	2.23	0.74
1:L:96:LEU:HD23	1:L:96:LEU:N	2.01	0.74
1:N:327:GLN:HB3	1:P:451:ILE:HG21	1.69	0.74
1:S:475:GLU:HG3	1:U:224:ASN:HD21	1.53	0.74
1:T:327:GLN:HB3	1:d:451:ILE:HG21	1.69	0.74
1:c:387:LYS:O	1:o:228:ASN:ND2	2.18	0.74
1:i:327:GLN:HB3	1:j:451:ILE:HG21	1.69	0.74
1:m:327:GLN:HB3	1:n:451:ILE:HG21	1.69	0.74
1:r:475:GLU:HG3	1:s:224:ASN:HD21	1.53	0.74
1:u:92:HIS:CG	1:u:239:TRP:HB2	2.22	0.74
1:3:224:ASN:HD21	1:4:475:GLU:HG3	1.53	0.74
1:A:475:GLU:HG3	1:G:224:ASN:HD21	1.53	0.74
1:B:239:TRP:HZ3	1:B:242:VAL:N	1.71	0.74
1:C:96:LEU:HD23	1:C:96:LEU:N	2.01	0.74
1:F:92:HIS:CG	1:F:239:TRP:HB2	2.22	0.74
1:H:96:LEU:HD23	1:H:96:LEU:N	2.01	0.74
1:K:475:GLU:HG3	1:a:224:ASN:HD21	1.53	0.74
1:N:92:HIS:CG	1:N:239:TRP:HB2	2.22	0.74
1:a:327:GLN:HB3	1:8:451:ILE:HG21	1.69	0.74
1:r:92:HIS:CG	1:r:239:TRP:HB2	2.22	0.74
1:t:92:HIS:CG	1:t:239:TRP:HB2	2.23	0.74
1:v:96:LEU:HD23	1:v:96:LEU:N	2.01	0.74
1:w:327:GLN:HB3	1:x:451:ILE:HG21	1.69	0.74
1:x:92:HIS:CG	1:x:239:TRP:HB2	2.22	0.74
1:y:92:HIS:CG	1:y:239:TRP:HB2	2.22	0.74
1:5:224:ASN:HD21	1:7:475:GLU:HG3	1.53	0.74
1:E:327:GLN:HB3	1:Q:451:ILE:HG21	1.69	0.74
1:H:224:ASN:HD21	1:Y:475:GLU:HG3	1.53	0.74
1:I:92:HIS:CG	1:I:239:TRP:HB2	2.23	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:224:ASN:HD21	1:U:475:GLU:HG3	1.53	0.74
1:R:475:GLU:HG3	1:S:224:ASN:HD21	1.53	0.74
1:S:92:HIS:CG	1:S:239:TRP:HB2	2.22	0.74
1:X:92:HIS:CG	1:X:239:TRP:HB2	2.22	0.74
1:Z:451:ILE:HG21	1:3:327:GLN:HB3	1.69	0.74
1:t:224:ASN:HD21	1:v:475:GLU:HG3	1.53	0.74
1:u:475:GLU:HG3	1:v:224:ASN:HD21	1.53	0.74
1:G:475:GLU:HG3	1:I:224:ASN:HD21	1.53	0.73
1:Q:92:HIS:CG	1:Q:239:TRP:HB2	2.23	0.73
1:V:387:LYS:O	1:e:228:ASN:ND2	2.18	0.73
1:d:96:LEU:HD23	1:d:96:LEU:N	2.01	0.73
1:i:92:HIS:CG	1:i:239:TRP:HB2	2.22	0.73
1:o:92:HIS:CG	1:o:239:TRP:HB2	2.22	0.73
1:q:224:ASN:HD21	1:s:475:GLU:HG3	1.53	0.73
1:q:228:ASN:ND2	1:s:387:LYS:O	2.18	0.73
1:q:475:GLU:HG3	1:r:224:ASN:HD21	1.53	0.73
1:R:228:ASN:ND2	1:U:387:LYS:O	2.18	0.73
1:U:92:HIS:CG	1:U:239:TRP:HB2	2.23	0.73
1:c:475:GLU:HG3	1:o:224:ASN:HD21	1.53	0.73
1:g:96:LEU:HD23	1:g:96:LEU:N	2.01	0.73
1:n:96:LEU:HD23	1:n:96:LEU:N	2.01	0.73
1:t:327:GLN:HB3	1:u:451:ILE:HG21	1.69	0.73
1:5:96:LEU:HD23	1:5:96:LEU:N	2.01	0.73
1:5:475:GLU:HG3	1:6:224:ASN:HD21	1.53	0.73
1:G:327:GLN:HB3	1:I:451:ILE:HG21	1.69	0.73
1:H:475:GLU:HG3	1:W:224:ASN:HD21	1.53	0.73
1:T:96:LEU:HD23	1:T:96:LEU:N	2.01	0.73
1:V:224:ASN:HD21	1:X:475:GLU:HG3	1.52	0.73
1:d:92:HIS:CG	1:d:239:TRP:HB2	2.23	0.73
1:f:92:HIS:CG	1:f:239:TRP:HB2	2.22	0.73
1:j:92:HIS:CG	1:j:239:TRP:HB2	2.22	0.73
1:n:92:HIS:CG	1:n:239:TRP:HB2	2.23	0.73
1:t:475:GLU:HG3	1:u:224:ASN:HD21	1.53	0.73
1:R:96:LEU:HD23	1:R:96:LEU:N	2.01	0.73
1:b:92:HIS:CG	1:b:239:TRP:HB2	2.22	0.73
1:l:92:HIS:CG	1:l:239:TRP:HB2	2.22	0.73
1:s:92:HIS:CG	1:s:239:TRP:HB2	2.23	0.73
1:O:224:ASN:HD21	1:n:475:GLU:HG3	1.53	0.73
1:P:92:HIS:CG	1:P:239:TRP:HB2	2.22	0.73
1:W:92:HIS:CG	1:W:239:TRP:HB2	2.23	0.73
1:Z:475:GLU:HG3	1:4:224:ASN:HD21	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:475:GLU:HG3	1:l:224:ASN:HD21	1.53	0.73
1:g:228:ASN:ND2	1:h:387:LYS:O	2.18	0.73
1:m:96:LEU:HD23	1:m:96:LEU:N	2.01	0.73
1:L:92:HIS:CG	1:L:239:TRP:HB2	2.23	0.73
1:O:92:HIS:CG	1:O:239:TRP:HB2	2.23	0.73
1:W:475:GLU:HG3	1:Y:224:ASN:HD21	1.53	0.73
1:p:92:HIS:CG	1:p:239:TRP:HB2	2.22	0.73
1:z:92:HIS:CG	1:z:239:TRP:HB2	2.23	0.73
1:6:92:HIS:CG	1:6:239:TRP:HB2	2.22	0.73
1:6:475:GLU:HG3	1:7:224:ASN:HD21	1.53	0.73
1:D:475:GLU:HG3	1:N:224:ASN:HD21	1.53	0.73
1:K:224:ASN:HD21	1:8:475:GLU:HG3	1.53	0.73
1:V:92:HIS:CG	1:V:239:TRP:HB2	2.22	0.73
1:V:451:ILE:HG21	1:X:327:GLN:HB3	1.71	0.73
1:j:475:GLU:HG3	1:k:224:ASN:HD21	1.53	0.73
1:q:96:LEU:HD23	1:q:96:LEU:N	2.01	0.73
1:D:224:ASN:HD21	1:P:475:GLU:HG3	1.53	0.73
1:T:92:HIS:CG	1:T:239:TRP:HB2	2.23	0.73
1:m:92:HIS:CG	1:m:239:TRP:HB2	2.22	0.73
1:r:387:LYS:O	1:s:228:ASN:ND2	2.18	0.73
1:x:387:LYS:O	1:y:228:ASN:ND2	2.18	0.73
1:7:92:HIS:CG	1:7:239:TRP:HB2	2.22	0.73
1:A:224:ASN:HD21	1:I:475:GLU:HG3	1.54	0.73
1:A:451:ILE:HG21	1:I:327:GLN:HB3	1.70	0.73
1:F:228:ASN:ND2	1:Q:387:LYS:O	2.18	0.73
1:H:92:HIS:CG	1:H:239:TRP:HB2	2.22	0.73
1:Y:92:HIS:CG	1:Y:239:TRP:HB2	2.22	0.73
1:i:224:ASN:HD21	1:k:475:GLU:HG3	1.53	0.73
1:z:224:ASN:HD21	1:2:475:GLU:HG3	1.53	0.73
1:I:96:LEU:HD23	1:I:96:LEU:N	2.01	0.73
1:J:475:GLU:HG3	1:L:224:ASN:HD21	1.53	0.73
1:h:96:LEU:HD23	1:h:96:LEU:N	2.01	0.73
1:o:475:GLU:HG3	1:p:224:ASN:HD21	1.53	0.73
1:u:387:LYS:O	1:v:228:ASN:ND2	2.18	0.73
1:5:92:HIS:CG	1:5:239:TRP:HB2	2.22	0.73
1:S:387:LYS:O	1:U:228:ASN:ND2	2.18	0.72
1:X:224:ASN:HD21	1:e:475:GLU:HG3	1.54	0.72
1:C:475:GLU:HG3	1:b:224:ASN:HD21	1.53	0.72
1:M:96:LEU:HD23	1:M:96:LEU:N	2.01	0.72
1:T:451:ILE:HG21	1:l:327:GLN:HB3	1.69	0.72
1:T:475:GLU:HG3	1:d:224:ASN:HD21	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:451:ILE:HG21	1:e:327:GLN:HB3	1.71	0.72
1:5:387:LYS:O	1:6:228:ASN:ND2	2.18	0.72
1:C:327:GLN:HB3	1:b:451:ILE:HG21	1.69	0.72
1:H:387:LYS:O	1:W:228:ASN:ND2	2.18	0.72
1:O:327:GLN:HB3	1:m:451:ILE:HG21	1.69	0.72
1:R:451:ILE:HG21	1:U:327:GLN:HB3	1.69	0.72
1:Z:224:ASN:HD21	1:3:475:GLU:HG3	1.53	0.72
1:f:451:ILE:HG21	1:g:327:GLN:HB3	1.69	0.72
1:m:475:GLU:HG3	1:n:224:ASN:HD21	1.53	0.72
1:q:387:LYS:O	1:r:228:ASN:ND2	2.18	0.72
1:q:451:ILE:HG21	1:s:327:GLN:HB3	1.69	0.72
1:D:451:ILE:HG21	1:P:327:GLN:HB3	1.69	0.72
1:a:475:GLU:HG3	1:8:224:ASN:HD21	1.53	0.72
1:f:224:ASN:HD21	1:g:475:GLU:HG3	1.53	0.72
1:R:387:LYS:O	1:S:228:ASN:ND2	2.18	0.72
1:f:228:ASN:ND2	1:g:387:LYS:O	2.18	0.72
1:g:224:ASN:HD21	1:h:475:GLU:HG3	1.53	0.72
1:C:224:ASN:HD21	1:M:475:GLU:HG3	1.53	0.72
1:D:96:LEU:HD23	1:D:240:ASP:HB3	1.72	0.72
1:O:96:LEU:HD23	1:O:240:ASP:HB3	1.72	0.72
1:a:239:TRP:CZ3	1:a:242:VAL:C	2.64	0.72
1:e:96:LEU:HD23	1:e:240:ASP:HB3	1.72	0.72
1:j:327:GLN:HB3	1:k:451:ILE:HG21	1.69	0.72
1:k:96:LEU:HD23	1:k:240:ASP:HB3	1.72	0.72
1:l:96:LEU:HD23	1:l:240:ASP:HB3	1.72	0.72
1:I:96:LEU:HD23	1:I:240:ASP:HB3	1.72	0.72
1:M:96:LEU:HD23	1:M:240:ASP:HB3	1.72	0.72
1:S:96:LEU:HD23	1:S:240:ASP:HB3	1.72	0.72
1:a:96:LEU:HD23	1:a:240:ASP:HB3	1.72	0.72
1:b:96:LEU:HD23	1:b:240:ASP:HB3	1.72	0.72
1:c:96:LEU:HD23	1:c:240:ASP:HB3	1.72	0.72
1:f:96:LEU:HD23	1:f:240:ASP:HB3	1.72	0.72
1:s:96:LEU:HD23	1:s:240:ASP:HB3	1.72	0.72
1:w:387:LYS:O	1:x:228:ASN:ND2	2.18	0.72
1:3:96:LEU:HD23	1:3:240:ASP:HB3	1.72	0.72
1:U:96:LEU:HD23	1:U:240:ASP:HB3	1.72	0.72
1:Z:228:ASN:ND2	1:3:387:LYS:O	2.18	0.72
1:h:96:LEU:HD23	1:h:240:ASP:HB3	1.72	0.72
1:p:96:LEU:HD23	1:p:240:ASP:HB3	1.72	0.72
1:r:96:LEU:HD23	1:r:240:ASP:HB3	1.72	0.72
1:u:96:LEU:HD23	1:u:240:ASP:HB3	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:451:ILE:HG21	1:y:327:GLN:HB3	1.70	0.72
1:A:96:LEU:HD23	1:A:240:ASP:HB3	1.72	0.72
1:K:239:TRP:CZ3	1:K:242:VAL:C	2.64	0.72
1:V:475:GLU:HG3	1:e:224:ASN:HD21	1.53	0.72
1:Z:96:LEU:HD23	1:Z:240:ASP:HB3	1.72	0.72
1:j:96:LEU:HD23	1:j:240:ASP:HB3	1.72	0.72
1:v:96:LEU:HD23	1:v:240:ASP:HB3	1.72	0.72
1:3:239:TRP:CZ3	1:3:242:VAL:C	2.64	0.72
1:C:387:LYS:O	1:b:228:ASN:ND2	2.18	0.71
1:E:387:LYS:O	1:Q:228:ASN:ND2	2.18	0.71
1:E:451:ILE:HG21	1:F:327:GLN:HB3	1.70	0.71
1:N:475:GLU:HG3	1:P:224:ASN:HD21	1.53	0.71
1:V:96:LEU:HD23	1:V:240:ASP:HB3	1.72	0.71
1:a:387:LYS:O	1:8:228:ASN:ND2	2.18	0.71
1:c:224:ASN:HD21	1:p:475:GLU:HG3	1.53	0.71
1:i:475:GLU:HG3	1:j:224:ASN:HD21	1.53	0.71
1:4:239:TRP:CZ3	1:4:242:VAL:C	2.64	0.71
1:8:96:LEU:HD23	1:8:240:ASP:HB3	1.72	0.71
1:O:239:TRP:CZ3	1:O:242:VAL:C	2.64	0.71
1:O:475:GLU:HG3	1:m:224:ASN:HD21	1.53	0.71
1:P:96:LEU:HD23	1:P:240:ASP:HB3	1.72	0.71
1:Y:96:LEU:HD23	1:Y:240:ASP:HB3	1.72	0.71
1:7:96:LEU:HD23	1:7:240:ASP:HB3	1.72	0.71
1:N:53:VAL:HG22	1:N:58:VAL:HG12	1.73	0.71
1:R:53:VAL:HG22	1:R:58:VAL:HG12	1.73	0.71
1:q:53:VAL:HG22	1:q:58:VAL:HG12	1.73	0.71
1:r:239:TRP:CZ3	1:r:242:VAL:C	2.64	0.71
1:w:228:ASN:ND2	1:y:387:LYS:O	2.19	0.71
1:G:96:LEU:HD23	1:G:240:ASP:HB3	1.72	0.71
1:l:239:TRP:CZ3	1:l:242:VAL:C	2.64	0.71
1:F:96:LEU:HD23	1:F:240:ASP:HB3	1.72	0.71
1:K:53:VAL:HG22	1:K:58:VAL:HG12	1.73	0.71
1:M:53:VAL:HG22	1:M:58:VAL:HG12	1.73	0.71
1:Q:96:LEU:HD23	1:Q:240:ASP:HB3	1.72	0.71
1:T:224:ASN:HD21	1:l:475:GLU:HG3	1.53	0.71
1:h:53:VAL:HG22	1:h:58:VAL:HG12	1.73	0.71
1:i:53:VAL:HG22	1:i:58:VAL:HG12	1.73	0.71
1:x:96:LEU:HD23	1:x:240:ASP:HB3	1.72	0.71
1:z:96:LEU:HD23	1:z:240:ASP:HB3	1.72	0.71
1:4:53:VAL:HG22	1:4:58:VAL:HG12	1.73	0.71
1:D:53:VAL:HG22	1:D:58:VAL:HG12	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:96:LEU:HD23	1:L:240:ASP:HB3	1.72	0.71
1:W:53:VAL:HG22	1:W:58:VAL:HG12	1.73	0.71
1:d:53:VAL:HG22	1:d:58:VAL:HG12	1.73	0.71
1:k:53:VAL:HG22	1:k:58:VAL:HG12	1.73	0.71
1:n:53:VAL:HG22	1:n:58:VAL:HG12	1.73	0.71
1:o:53:VAL:HG22	1:o:58:VAL:HG12	1.73	0.71
1:t:96:LEU:HD23	1:t:240:ASP:HB3	1.72	0.71
1:y:96:LEU:HD23	1:y:240:ASP:HB3	1.72	0.71
1:5:96:LEU:HD23	1:5:240:ASP:HB3	1.72	0.71
1:E:228:ASN:ND2	1:F:387:LYS:O	2.19	0.71
1:H:96:LEU:HD23	1:H:240:ASP:HB3	1.72	0.71
1:T:53:VAL:HG22	1:T:58:VAL:HG12	1.73	0.71
1:X:53:VAL:HG22	1:X:58:VAL:HG12	1.73	0.71
1:m:96:LEU:HD23	1:m:240:ASP:HB3	1.72	0.71
1:1:96:LEU:HD23	1:1:240:ASP:HB3	1.72	0.71
1:5:239:TRP:CZ3	1:5:242:VAL:C	2.64	0.71
1:O:228:ASN:ND2	1:n:387:LYS:O	2.18	0.71
1:T:96:LEU:HD23	1:T:240:ASP:HB3	1.72	0.71
1:V:53:VAL:HG22	1:V:58:VAL:HG12	1.73	0.71
1:p:53:VAL:HG22	1:p:58:VAL:HG12	1.73	0.71
1:6:53:VAL:HG22	1:6:58:VAL:HG12	1.73	0.71
1:B:96:LEU:HD23	1:B:240:ASP:HB3	1.72	0.71
1:B:475:GLU:HG3	1:J:224:ASN:HD21	1.53	0.71
1:W:96:LEU:HD23	1:W:240:ASP:HB3	1.72	0.71
1:m:53:VAL:HG22	1:m:58:VAL:HG12	1.73	0.71
1:1:53:VAL:HG22	1:1:58:VAL:HG12	1.73	0.71
1:B:53:VAL:HG22	1:B:58:VAL:HG12	1.73	0.71
1:K:96:LEU:HD23	1:K:240:ASP:HB3	1.72	0.71
1:P:53:VAL:HG22	1:P:58:VAL:HG12	1.73	0.71
1:W:239:TRP:CZ3	1:W:242:VAL:C	2.64	0.71
1:d:387:LYS:O	1:l:228:ASN:ND2	2.18	0.71
1:j:53:VAL:HG22	1:j:58:VAL:HG12	1.73	0.71
1:1:475:GLU:HG3	1:2:224:ASN:HD21	1.53	0.71
1:A:228:ASN:ND2	1:I:387:LYS:O	2.19	0.70
1:E:239:TRP:CZ3	1:E:242:VAL:C	2.64	0.70
1:H:239:TRP:CZ3	1:H:242:VAL:C	2.64	0.70
1:N:96:LEU:HD23	1:N:240:ASP:HB3	1.72	0.70
1:T:228:ASN:ND2	1:l:387:LYS:O	2.18	0.70
1:c:53:VAL:HG22	1:c:58:VAL:HG12	1.73	0.70
1:f:387:LYS:O	1:h:228:ASN:ND2	2.18	0.70
1:i:96:LEU:HD23	1:i:240:ASP:HB3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:53:VAL:HG22	1:F:58:VAL:HG12	1.73	0.70
1:G:53:VAL:HG22	1:G:58:VAL:HG12	1.73	0.70
1:M:228:ASN:ND2	1:b:387:LYS:O	2.18	0.70
1:n:96:LEU:HD23	1:n:240:ASP:HB3	1.72	0.70
1:r:53:VAL:HG22	1:r:58:VAL:HG12	1.73	0.70
1:t:53:VAL:HG22	1:t:58:VAL:HG12	1.73	0.70
1:y:53:VAL:HG22	1:y:58:VAL:HG12	1.73	0.70
1:4:96:LEU:HD23	1:4:240:ASP:HB3	1.72	0.70
1:6:96:LEU:HD23	1:6:240:ASP:HB3	1.72	0.70
1:A:53:VAL:HG22	1:A:58:VAL:HG12	1.73	0.70
1:S:53:VAL:HG22	1:S:58:VAL:HG12	1.73	0.70
1:U:53:VAL:HG22	1:U:58:VAL:HG12	1.73	0.70
1:e:53:VAL:HG22	1:e:58:VAL:HG12	1.73	0.70
1:l:53:VAL:HG22	1:l:58:VAL:HG12	1.73	0.70
1:v:53:VAL:HG22	1:v:58:VAL:HG12	1.73	0.70
1:x:53:VAL:HG22	1:x:58:VAL:HG12	1.73	0.70
1:x:239:TRP:CZ3	1:x:242:VAL:C	2.64	0.70
1:E:224:ASN:HD21	1:F:475:GLU:HG3	1.53	0.70
1:O:387:LYS:O	1:m:228:ASN:ND2	2.18	0.70
1:Q:53:VAL:HG22	1:Q:58:VAL:HG12	1.73	0.70
1:d:96:LEU:HD23	1:d:240:ASP:HB3	1.72	0.70
1:g:96:LEU:HD23	1:g:240:ASP:HB3	1.72	0.70
1:t:228:ASN:ND2	1:v:387:LYS:O	2.19	0.70
1:w:53:VAL:HG22	1:w:58:VAL:HG12	1.73	0.70
1:2:96:LEU:HD23	1:2:240:ASP:HB3	1.72	0.70
1:6:239:TRP:CZ3	1:6:242:VAL:C	2.64	0.70
1:O:53:VAL:HG22	1:O:58:VAL:HG12	1.73	0.70
1:Z:53:VAL:HG22	1:Z:58:VAL:HG12	1.73	0.70
1:i:228:ASN:ND2	1:k:387:LYS:O	2.18	0.70
1:q:96:LEU:HD23	1:q:240:ASP:HB3	1.72	0.70
1:s:53:VAL:HG22	1:s:58:VAL:HG12	1.73	0.70
1:w:224:ASN:HD21	1:y:475:GLU:HG3	1.53	0.70
1:w:239:TRP:CZ3	1:w:242:VAL:C	2.64	0.70
1:E:53:VAL:HG22	1:E:58:VAL:HG12	1.73	0.70
1:J:53:VAL:HG22	1:J:58:VAL:HG12	1.73	0.70
1:Q:239:TRP:CZ3	1:Q:242:VAL:C	2.64	0.70
1:R:96:LEU:HD23	1:R:240:ASP:HB3	1.72	0.70
1:5:53:VAL:HG22	1:5:58:VAL:HG12	1.73	0.70
1:A:387:LYS:O	1:G:228:ASN:ND2	2.19	0.70
1:C:96:LEU:HD23	1:C:240:ASP:HB3	1.72	0.70
1:J:96:LEU:HD23	1:J:240:ASP:HB3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:96:LEU:HD23	1:X:240:ASP:HB3	1.72	0.70
1:o:96:LEU:HD23	1:o:240:ASP:HB3	1.72	0.70
1:2:53:VAL:HG22	1:2:58:VAL:HG12	1.73	0.70
1:8:53:VAL:HG22	1:8:58:VAL:HG12	1.73	0.70
1:B:239:TRP:CZ3	1:B:242:VAL:C	2.64	0.70
1:H:53:VAL:HG22	1:H:58:VAL:HG12	1.73	0.70
1:I:53:VAL:HG22	1:I:58:VAL:HG12	1.73	0.70
1:J:387:LYS:O	1:L:228:ASN:ND2	2.18	0.70
1:T:387:LYS:O	1:d:228:ASN:ND2	2.18	0.70
1:b:53:VAL:HG22	1:b:58:VAL:HG12	1.73	0.70
1:z:228:ASN:ND2	1:2:387:LYS:O	2.18	0.70
1:D:387:LYS:O	1:N:228:ASN:ND2	2.18	0.70
1:f:53:VAL:HG22	1:f:58:VAL:HG12	1.73	0.70
1:m:387:LYS:O	1:n:228:ASN:ND2	2.18	0.70
1:u:53:VAL:HG22	1:u:58:VAL:HG12	1.73	0.70
1:1:239:TRP:CZ3	1:1:242:VAL:C	2.64	0.70
1:3:53:VAL:HG22	1:3:58:VAL:HG12	1.73	0.70
1:6:387:LYS:O	1:7:228:ASN:ND2	2.18	0.70
1:B:228:ASN:ND2	1:L:387:LYS:O	2.18	0.69
1:R:239:TRP:CZ3	1:R:242:VAL:C	2.64	0.69
1:a:53:VAL:HG22	1:a:58:VAL:HG12	1.73	0.69
1:z:53:VAL:HG22	1:z:58:VAL:HG12	1.73	0.69
1:C:53:VAL:HG22	1:C:58:VAL:HG12	1.73	0.69
1:V:239:TRP:CZ3	1:V:242:VAL:C	2.64	0.69
1:z:239:TRP:CZ3	1:z:242:VAL:C	2.64	0.69
1:z:387:LYS:O	1:1:228:ASN:ND2	2.18	0.69
1:L:53:VAL:HG22	1:L:58:VAL:HG12	1.73	0.69
1:g:53:VAL:HG22	1:g:58:VAL:HG12	1.73	0.69
1:p:239:TRP:CZ3	1:p:242:VAL:C	2.64	0.69
1:W:387:LYS:O	1:Y:228:ASN:ND2	2.18	0.69
1:o:104:ASP:HB3	1:o:225:ARG:CZ	2.23	0.69
1:o:239:TRP:CZ3	1:o:242:VAL:C	2.64	0.69
1:q:239:TRP:CZ3	1:q:242:VAL:C	2.64	0.69
1:B:104:ASP:HB3	1:B:225:ARG:CZ	2.23	0.69
1:C:104:ASP:HB3	1:C:225:ARG:CZ	2.23	0.69
1:L:239:TRP:CZ3	1:L:242:VAL:C	2.64	0.69
1:X:104:ASP:HB3	1:X:225:ARG:CZ	2.23	0.69
1:c:104:ASP:HB3	1:c:225:ARG:CZ	2.23	0.69
1:e:104:ASP:HB3	1:e:225:ARG:CZ	2.23	0.69
1:g:104:ASP:HB3	1:g:225:ARG:CZ	2.23	0.69
1:m:239:TRP:CZ3	1:m:242:VAL:C	2.64	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:96:LEU:HD23	1:w:240:ASP:HB3	1.72	0.69
1:A:104:ASP:HB3	1:A:225:ARG:CZ	2.23	0.69
1:F:104:ASP:HB3	1:F:225:ARG:CZ	2.23	0.69
1:N:104:ASP:HB3	1:N:225:ARG:CZ	2.23	0.69
1:Z:104:ASP:HB3	1:Z:225:ARG:CZ	2.23	0.69
1:i:104:ASP:HB3	1:i:225:ARG:CZ	2.23	0.69
1:y:104:ASP:HB3	1:y:225:ARG:CZ	2.23	0.69
1:1:104:ASP:HB3	1:1:225:ARG:CZ	2.23	0.69
1:E:96:LEU:HD23	1:E:240:ASP:HB3	1.72	0.69
1:E:104:ASP:HB3	1:E:225:ARG:CZ	2.23	0.69
1:P:104:ASP:HB3	1:P:225:ARG:CZ	2.23	0.69
1:T:239:TRP:CZ3	1:T:242:VAL:C	2.64	0.69
1:Y:53:VAL:HG22	1:Y:58:VAL:HG12	1.73	0.69
1:a:363:GLU:HG2	1:a:364:TRP:CD1	2.28	0.69
1:c:239:TRP:CZ3	1:c:242:VAL:C	2.64	0.69
1:e:239:TRP:CZ3	1:e:242:VAL:C	2.64	0.69
1:t:387:LYS:O	1:u:228:ASN:ND2	2.18	0.69
1:7:104:ASP:HB3	1:7:225:ARG:CZ	2.23	0.69
1:7:239:TRP:CZ3	1:7:242:VAL:C	2.64	0.69
1:D:239:TRP:CZ3	1:D:242:VAL:C	2.64	0.69
1:I:104:ASP:HB3	1:I:225:ARG:CZ	2.23	0.69
1:O:363:GLU:HG2	1:O:364:TRP:CD1	2.28	0.69
1:P:363:GLU:HG2	1:P:364:TRP:CD1	2.28	0.69
1:U:104:ASP:HB3	1:U:225:ARG:CZ	2.23	0.69
1:U:363:GLU:HG2	1:U:364:TRP:CD1	2.28	0.69
1:X:228:ASN:ND2	1:e:387:LYS:O	2.19	0.69
1:X:239:TRP:CZ3	1:X:242:VAL:C	2.64	0.69
1:X:363:GLU:HG2	1:X:364:TRP:CD1	2.28	0.69
1:Y:104:ASP:HB3	1:Y:225:ARG:CZ	2.23	0.69
1:Y:239:TRP:CZ3	1:Y:242:VAL:C	2.64	0.69
1:Y:363:GLU:HG2	1:Y:364:TRP:CD1	2.28	0.69
1:h:104:ASP:HB3	1:h:225:ARG:CZ	2.23	0.69
1:h:239:TRP:CZ3	1:h:242:VAL:C	2.64	0.69
1:j:104:ASP:HB3	1:j:225:ARG:CZ	2.23	0.69
1:j:363:GLU:HG2	1:j:364:TRP:CD1	2.28	0.69
1:l:363:GLU:HG2	1:l:364:TRP:CD1	2.28	0.69
1:o:363:GLU:HG2	1:o:364:TRP:CD1	2.28	0.69
1:p:104:ASP:HB3	1:p:225:ARG:CZ	2.23	0.69
1:s:104:ASP:HB3	1:s:225:ARG:CZ	2.23	0.69
1:s:239:TRP:CZ3	1:s:242:VAL:C	2.64	0.69
1:u:104:ASP:HB3	1:u:225:ARG:CZ	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:104:ASP:HB3	1:v:225:ARG:CZ	2.23	0.69
1:w:104:ASP:HB3	1:w:225:ARG:CZ	2.23	0.69
1:3:363:GLU:HG2	1:3:364:TRP:CD1	2.28	0.69
1:7:53:VAL:HG22	1:7:58:VAL:HG12	1.73	0.69
1:7:363:GLU:HG2	1:7:364:TRP:CD1	2.28	0.69
1:8:104:ASP:HB3	1:8:225:ARG:CZ	2.23	0.69
1:A:340:GLU:HG3	1:G:403:ARG:HH11	1.58	0.69
1:D:104:ASP:HB3	1:D:225:ARG:CZ	2.23	0.69
1:H:363:GLU:HG2	1:H:364:TRP:CD1	2.28	0.69
1:K:104:ASP:HB3	1:K:225:ARG:CZ	2.23	0.69
1:N:363:GLU:HG2	1:N:364:TRP:CD1	2.28	0.69
1:V:228:ASN:ND2	1:X:387:LYS:O	2.20	0.69
1:W:104:ASP:HB3	1:W:225:ARG:CZ	2.23	0.69
1:d:363:GLU:HG2	1:d:364:TRP:CD1	2.28	0.69
1:k:104:ASP:HB3	1:k:225:ARG:CZ	2.23	0.69
1:s:363:GLU:HG2	1:s:364:TRP:CD1	2.28	0.69
1:B:363:GLU:HG2	1:B:364:TRP:CD1	2.28	0.69
1:G:387:LYS:O	1:I:228:ASN:ND2	2.18	0.69
1:M:104:ASP:HB3	1:M:225:ARG:CZ	2.23	0.69
1:M:239:TRP:CZ3	1:M:242:VAL:C	2.64	0.69
1:U:239:TRP:CZ3	1:U:242:VAL:C	2.64	0.69
1:V:104:ASP:HB3	1:V:225:ARG:CZ	2.23	0.69
1:f:363:GLU:HG2	1:f:364:TRP:CD1	2.28	0.69
1:i:363:GLU:HG2	1:i:364:TRP:CD1	2.28	0.69
1:k:239:TRP:CZ3	1:k:242:VAL:C	2.64	0.69
1:l:104:ASP:HB3	1:l:225:ARG:CZ	2.23	0.69
1:n:363:GLU:HG2	1:n:364:TRP:CD1	2.28	0.69
1:t:104:ASP:HB3	1:t:225:ARG:CZ	2.23	0.69
1:t:363:GLU:HG2	1:t:364:TRP:CD1	2.28	0.69
1:w:363:GLU:HG2	1:w:364:TRP:CD1	2.28	0.69
1:z:363:GLU:HG2	1:z:364:TRP:CD1	2.28	0.69
1:3:403:ARG:HH11	1:4:340:GLU:HG3	1.58	0.69
1:4:104:ASP:HB3	1:4:225:ARG:CZ	2.23	0.69
1:5:363:GLU:HG2	1:5:364:TRP:CD1	2.28	0.69
1:6:104:ASP:HB3	1:6:225:ARG:CZ	2.23	0.69
1:E:363:GLU:HG2	1:E:364:TRP:CD1	2.28	0.68
1:G:104:ASP:HB3	1:G:225:ARG:CZ	2.23	0.68
1:G:363:GLU:HG2	1:G:364:TRP:CD1	2.28	0.68
1:K:340:GLU:HG3	1:a:403:ARG:HH11	1.58	0.68
1:K:363:GLU:HG2	1:K:364:TRP:CD1	2.28	0.68
1:L:363:GLU:HG2	1:L:364:TRP:CD1	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:104:ASP:HB3	1:Q:225:ARG:CZ	2.23	0.68
1:Z:340:GLU:HG3	1:4:403:ARG:HH11	1.58	0.68
1:b:363:GLU:HG2	1:b:364:TRP:CD1	2.28	0.68
1:k:363:GLU:HG2	1:k:364:TRP:CD1	2.28	0.68
1:t:340:GLU:HG3	1:u:403:ARG:HH11	1.58	0.68
1:u:239:TRP:CZ3	1:u:242:VAL:C	2.64	0.68
1:x:104:ASP:HB3	1:x:225:ARG:CZ	2.23	0.68
1:1:363:GLU:HG2	1:1:364:TRP:CD1	2.28	0.68
1:B:340:GLU:HG3	1:J:403:ARG:HH11	1.58	0.68
1:D:363:GLU:HG2	1:D:364:TRP:CD1	2.28	0.68
1:E:340:GLU:HG3	1:Q:403:ARG:HH11	1.58	0.68
1:G:340:GLU:HG3	1:I:403:ARG:HH11	1.58	0.68
1:K:403:ARG:HH11	1:8:340:GLU:HG3	1.59	0.68
1:O:104:ASP:HB3	1:O:225:ARG:CZ	2.23	0.68
1:T:104:ASP:HB3	1:T:225:ARG:CZ	2.23	0.68
1:W:340:GLU:HG3	1:Y:403:ARG:HH11	1.58	0.68
1:Z:363:GLU:HG2	1:Z:364:TRP:CD1	2.28	0.68
1:b:104:ASP:HB3	1:b:225:ARG:CZ	2.23	0.68
1:f:104:ASP:HB3	1:f:225:ARG:CZ	2.23	0.68
1:n:104:ASP:HB3	1:n:225:ARG:CZ	2.23	0.68
1:t:403:ARG:HH11	1:v:340:GLU:HG3	1.59	0.68
1:4:363:GLU:HG2	1:4:364:TRP:CD1	2.28	0.68
1:8:363:GLU:HG2	1:8:364:TRP:CD1	2.28	0.68
1:B:403:ARG:HH11	1:L:340:GLU:HG3	1.58	0.68
1:E:403:ARG:HH11	1:F:340:GLU:HG3	1.59	0.68
1:H:104:ASP:HB3	1:H:225:ARG:CZ	2.23	0.68
1:I:239:TRP:CZ3	1:I:242:VAL:C	2.64	0.68
1:I:363:GLU:HG2	1:I:364:TRP:CD1	2.28	0.68
1:J:104:ASP:HB3	1:J:225:ARG:CZ	2.23	0.68
1:M:363:GLU:HG2	1:M:364:TRP:CD1	2.28	0.68
1:d:104:ASP:HB3	1:d:225:ARG:CZ	2.23	0.68
1:q:104:ASP:HB3	1:q:225:ARG:CZ	2.23	0.68
1:w:340:GLU:HG3	1:x:403:ARG:HH11	1.58	0.68
1:w:403:ARG:HH11	1:y:340:GLU:HG3	1.59	0.68
1:z:340:GLU:HG3	1:1:403:ARG:HH11	1.58	0.68
1:2:104:ASP:HB3	1:2:225:ARG:CZ	2.23	0.68
1:6:340:GLU:HG3	1:7:403:ARG:HH11	1.58	0.68
1:C:403:ARG:HH11	1:M:340:GLU:HG3	1.59	0.68
1:D:148:GLN:HG3	1:D:276:THR:HG21	1.76	0.68
1:G:239:TRP:CZ3	1:G:242:VAL:C	2.64	0.68
1:R:104:ASP:HB3	1:R:225:ARG:CZ	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:403:ARG:HH11	1:U:340:GLU:HG3	1.58	0.68
1:g:403:ARG:HH11	1:h:340:GLU:HG3	1.59	0.68
1:h:148:GLN:HG3	1:h:276:THR:HG21	1.76	0.68
1:h:363:GLU:HG2	1:h:364:TRP:CD1	2.28	0.68
1:k:148:GLN:HG3	1:k:276:THR:HG21	1.76	0.68
1:m:104:ASP:HB3	1:m:225:ARG:CZ	2.23	0.68
1:m:363:GLU:HG2	1:m:364:TRP:CD1	2.28	0.68
1:q:403:ARG:HH11	1:s:340:GLU:HG3	1.58	0.68
1:u:363:GLU:HG2	1:u:364:TRP:CD1	2.28	0.68
1:1:340:GLU:HG3	1:2:403:ARG:HH11	1.58	0.68
1:5:104:ASP:HB3	1:5:225:ARG:CZ	2.23	0.68
1:C:363:GLU:HG2	1:C:364:TRP:CD1	2.28	0.68
1:F:239:TRP:CZ3	1:F:242:VAL:C	2.64	0.68
1:H:403:ARG:HH11	1:Y:340:GLU:HG3	1.58	0.68
1:L:148:GLN:HG3	1:L:276:THR:HG21	1.76	0.68
1:M:148:GLN:HG3	1:M:276:THR:HG21	1.76	0.68
1:S:104:ASP:HB3	1:S:225:ARG:CZ	2.23	0.68
1:a:104:ASP:HB3	1:a:225:ARG:CZ	2.23	0.68
1:d:340:GLU:HG3	1:l:403:ARG:HH11	1.58	0.68
1:r:104:ASP:HB3	1:r:225:ARG:CZ	2.23	0.68
1:H:340:GLU:HG3	1:W:403:ARG:HH11	1.58	0.68
1:N:387:LYS:O	1:P:228:ASN:ND2	2.18	0.68
1:O:403:ARG:HH11	1:n:340:GLU:HG3	1.58	0.68
1:S:340:GLU:HG3	1:U:403:ARG:HH11	1.58	0.68
1:V:363:GLU:HG2	1:V:364:TRP:CD1	2.28	0.68
1:a:148:GLN:HG3	1:a:276:THR:HG21	1.76	0.68
1:g:363:GLU:HG2	1:g:364:TRP:CD1	2.28	0.68
1:i:387:LYS:O	1:j:228:ASN:ND2	2.18	0.68
1:r:363:GLU:HG2	1:r:364:TRP:CD1	2.28	0.68
1:t:239:TRP:CZ3	1:t:242:VAL:C	2.64	0.68
1:z:148:GLN:HG3	1:z:276:THR:HG21	1.76	0.68
1:3:148:GLN:HG3	1:3:276:THR:HG21	1.76	0.68
1:Q:148:GLN:HG3	1:Q:276:THR:HG21	1.76	0.68
1:S:363:GLU:HG2	1:S:364:TRP:CD1	2.28	0.68
1:T:340:GLU:HG3	1:d:403:ARG:HH11	1.58	0.68
1:T:363:GLU:HG2	1:T:364:TRP:CD1	2.28	0.68
1:c:403:ARG:HH11	1:p:340:GLU:HG3	1.58	0.68
1:f:340:GLU:HG3	1:h:403:ARG:HH11	1.58	0.68
1:r:340:GLU:HG3	1:s:403:ARG:HH11	1.58	0.68
1:x:148:GLN:HG3	1:x:276:THR:HG21	1.76	0.68
1:x:363:GLU:HG2	1:x:364:TRP:CD1	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:363:GLU:HG2	1:y:364:TRP:CD1	2.28	0.68
1:3:104:ASP:HB3	1:3:225:ARG:CZ	2.23	0.68
1:M:403:ARG:HH11	1:b:340:GLU:HG3	1.58	0.68
1:Q:363:GLU:HG2	1:Q:364:TRP:CD1	2.28	0.68
1:R:363:GLU:HG2	1:R:364:TRP:CD1	2.28	0.68
1:X:148:GLN:HG3	1:X:276:THR:HG21	1.76	0.68
1:m:340:GLU:HG3	1:n:403:ARG:HH11	1.58	0.68
1:p:363:GLU:HG2	1:p:364:TRP:CD1	2.28	0.68
1:5:340:GLU:HG3	1:6:403:ARG:HH11	1.58	0.68
1:C:239:TRP:CZ3	1:C:242:VAL:C	2.64	0.68
1:F:363:GLU:HG2	1:F:364:TRP:CD1	2.28	0.68
1:V:340:GLU:HG3	1:e:403:ARG:HH11	1.58	0.68
1:V:403:ARG:HH11	1:X:340:GLU:HG3	1.58	0.68
1:o:148:GLN:HG3	1:o:276:THR:HG21	1.76	0.68
1:q:363:GLU:HG2	1:q:364:TRP:CD1	2.28	0.68
1:x:340:GLU:HG3	1:y:403:ARG:HH11	1.58	0.68
1:y:239:TRP:CZ3	1:y:242:VAL:C	2.64	0.68
1:5:403:ARG:HH11	1:7:340:GLU:HG3	1.58	0.68
1:C:340:GLU:HG3	1:b:403:ARG:HH11	1.58	0.68
1:D:403:ARG:HH11	1:P:340:GLU:HG3	1.58	0.68
1:O:148:GLN:HG3	1:O:276:THR:HG21	1.76	0.68
1:i:239:TRP:CZ3	1:i:242:VAL:C	2.64	0.68
1:j:239:TRP:CZ3	1:j:242:VAL:C	2.64	0.68
1:F:403:ARG:HH11	1:Q:340:GLU:HG3	1.58	0.67
1:L:104:ASP:HB3	1:L:225:ARG:CZ	2.23	0.67
1:N:340:GLU:HG3	1:P:403:ARG:HH11	1.58	0.67
1:f:403:ARG:HH11	1:g:340:GLU:HG3	1.58	0.67
1:j:340:GLU:HG3	1:k:403:ARG:HH11	1.59	0.67
1:l:148:GLN:HG3	1:l:276:THR:HG21	1.76	0.67
1:z:104:ASP:HB3	1:z:225:ARG:CZ	2.23	0.67
1:F:148:GLN:HG3	1:F:276:THR:HG21	1.76	0.67
1:P:239:TRP:CZ3	1:P:242:VAL:C	2.64	0.67
1:c:92:HIS:HB3	1:c:239:TRP:CA	2.25	0.67
1:e:92:HIS:HB3	1:e:239:TRP:CA	2.25	0.67
1:g:239:TRP:CZ3	1:g:242:VAL:C	2.64	0.67
1:y:148:GLN:HG3	1:y:276:THR:HG21	1.76	0.67
1:A:363:GLU:HG2	1:A:364:TRP:CD1	2.28	0.67
1:G:92:HIS:HB3	1:G:239:TRP:CA	2.25	0.67
1:S:239:TRP:CZ3	1:S:242:VAL:C	2.64	0.67
1:W:363:GLU:HG2	1:W:364:TRP:CD1	2.28	0.67
1:Y:92:HIS:HB3	1:Y:239:TRP:CA	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:92:HIS:HB3	1:t:239:TRP:CA	2.25	0.67
1:3:228:ASN:ND2	1:4:387:LYS:O	2.18	0.67
1:6:92:HIS:HB3	1:6:239:TRP:CB	2.25	0.67
1:7:92:HIS:HB3	1:7:239:TRP:CA	2.25	0.67
1:F:92:HIS:HB3	1:F:239:TRP:CB	2.25	0.67
1:J:363:GLU:HG2	1:J:364:TRP:CD1	2.28	0.67
1:K:387:LYS:O	1:a:228:ASN:ND2	2.18	0.67
1:N:239:TRP:CZ3	1:N:242:VAL:C	2.64	0.67
1:R:92:HIS:HB3	1:R:239:TRP:CB	2.25	0.67
1:R:148:GLN:HG3	1:R:276:THR:HG21	1.76	0.67
1:W:92:HIS:HB3	1:W:239:TRP:CB	2.25	0.67
1:Z:387:LYS:O	1:4:228:ASN:ND2	2.18	0.67
1:i:340:GLU:HG3	1:j:403:ARG:HH11	1.58	0.67
1:q:92:HIS:HB3	1:q:239:TRP:CB	2.25	0.67
1:s:92:HIS:HB3	1:s:239:TRP:CA	2.25	0.67
1:x:92:HIS:HB3	1:x:239:TRP:CB	2.25	0.67
1:2:92:HIS:HB3	1:2:239:TRP:CB	2.25	0.67
1:6:363:GLU:HG2	1:6:364:TRP:CD1	2.28	0.67
1:A:403:ARG:HH11	1:I:340:GLU:HG3	1.58	0.67
1:C:92:HIS:HB3	1:C:239:TRP:CB	2.25	0.67
1:D:340:GLU:HG3	1:N:403:ARG:HH11	1.58	0.67
1:E:148:GLN:HG3	1:E:276:THR:HG21	1.76	0.67
1:G:92:HIS:HB3	1:G:239:TRP:CB	2.25	0.67
1:H:92:HIS:HB3	1:H:239:TRP:CA	2.25	0.67
1:J:92:HIS:HB3	1:J:239:TRP:CB	2.25	0.67
1:K:228:ASN:ND2	1:8:387:LYS:O	2.18	0.67
1:Q:92:HIS:HB3	1:Q:239:TRP:CB	2.25	0.67
1:S:92:HIS:HB3	1:S:239:TRP:CB	2.25	0.67
1:U:92:HIS:HB3	1:U:239:TRP:CA	2.25	0.67
1:Z:162:ASN:HA	1:Z:166:ALA:HA	1.77	0.67
1:a:92:HIS:HB3	1:a:239:TRP:CA	2.25	0.67
1:q:340:GLU:HG3	1:r:403:ARG:HH11	1.58	0.67
1:r:92:HIS:HB3	1:r:239:TRP:CB	2.25	0.67
1:t:92:HIS:HB3	1:t:239:TRP:CB	2.25	0.67
1:v:363:GLU:HG2	1:v:364:TRP:CD1	2.28	0.67
1:y:92:HIS:HB3	1:y:239:TRP:CB	2.25	0.67
1:2:363:GLU:HG2	1:2:364:TRP:CD1	2.28	0.67
1:5:92:HIS:HB3	1:5:239:TRP:CA	2.25	0.67
1:g:92:HIS:HB3	1:g:239:TRP:CB	2.25	0.67
1:i:403:ARG:HH11	1:k:340:GLU:HG3	1.58	0.67
1:p:92:HIS:HB3	1:p:239:TRP:CB	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:148:GLN:HG3	1:q:276:THR:HG21	1.76	0.67
1:w:148:GLN:HG3	1:w:276:THR:HG21	1.76	0.67
1:1:387:LYS:O	1:2:228:ASN:ND2	2.18	0.67
1:3:92:HIS:HB3	1:3:239:TRP:CA	2.25	0.67
1:A:92:HIS:HB3	1:A:239:TRP:CB	2.25	0.67
1:B:387:LYS:O	1:J:228:ASN:ND2	2.18	0.67
1:I:92:HIS:HB3	1:I:239:TRP:CB	2.25	0.67
1:V:92:HIS:HB3	1:V:239:TRP:CB	2.25	0.67
1:Y:148:GLN:HG3	1:Y:276:THR:HG21	1.76	0.67
1:Z:239:TRP:CZ3	1:Z:242:VAL:C	2.64	0.67
1:c:92:HIS:HB3	1:c:239:TRP:CB	2.25	0.67
1:l:92:HIS:HB3	1:l:239:TRP:CB	2.25	0.67
1:o:340:GLU:HG3	1:p:403:ARG:HH11	1.59	0.67
1:u:92:HIS:HB3	1:u:239:TRP:CB	2.25	0.67
1:v:92:HIS:HB3	1:v:239:TRP:CB	2.25	0.67
1:7:148:GLN:HG3	1:7:276:THR:HG21	1.76	0.67
1:8:162:ASN:HA	1:8:166:ALA:HA	1.77	0.67
1:C:92:HIS:HB3	1:C:239:TRP:CA	2.25	0.67
1:D:92:HIS:HB3	1:D:239:TRP:CB	2.25	0.67
1:E:92:HIS:HB3	1:E:239:TRP:CB	2.25	0.67
1:I:162:ASN:HA	1:I:166:ALA:HA	1.77	0.67
1:O:92:HIS:HB3	1:O:239:TRP:CA	2.25	0.67
1:O:92:HIS:HB3	1:O:239:TRP:CB	2.25	0.67
1:R:92:HIS:HB3	1:R:239:TRP:CA	2.25	0.67
1:R:340:GLU:HG3	1:S:403:ARG:HH11	1.58	0.67
1:S:92:HIS:HB3	1:S:239:TRP:CA	2.25	0.67
1:k:92:HIS:HB3	1:k:239:TRP:CB	2.25	0.67
1:m:92:HIS:HB3	1:m:239:TRP:CB	2.25	0.67
1:r:92:HIS:HB3	1:r:239:TRP:CA	2.25	0.67
1:u:148:GLN:HG3	1:u:276:THR:HG21	1.76	0.67
1:v:92:HIS:HB3	1:v:239:TRP:CA	2.25	0.67
1:w:92:HIS:HB3	1:w:239:TRP:CB	2.25	0.67
1:7:92:HIS:HB3	1:7:239:TRP:CB	2.25	0.67
1:A:92:HIS:HB3	1:A:239:TRP:CA	2.25	0.67
1:D:162:ASN:HA	1:D:166:ALA:HA	1.77	0.67
1:I:148:GLN:HG3	1:I:276:THR:HG21	1.76	0.67
1:Y:96:LEU:H	1:Y:96:LEU:CD2	2.03	0.67
1:Z:403:ARG:HH11	1:3:340:GLU:HG3	1.58	0.67
1:a:92:HIS:HB3	1:a:239:TRP:CB	2.25	0.67
1:b:92:HIS:HB3	1:b:239:TRP:CB	2.25	0.67
1:e:92:HIS:HB3	1:e:239:TRP:CB	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:92:HIS:HB3	1:k:239:TRP:CA	2.25	0.67
1:l:92:HIS:HB3	1:l:239:TRP:CA	2.25	0.67
1:m:162:ASN:HA	1:m:166:ALA:HA	1.77	0.67
1:u:162:ASN:HA	1:u:166:ALA:HA	1.77	0.67
1:w:92:HIS:HB3	1:w:239:TRP:CA	2.25	0.67
1:x:92:HIS:HB3	1:x:239:TRP:CA	2.25	0.67
1:2:92:HIS:HB3	1:2:239:TRP:CA	2.25	0.67
1:C:148:GLN:HG3	1:C:276:THR:HG21	1.76	0.67
1:D:92:HIS:HB3	1:D:239:TRP:CA	2.25	0.67
1:E:92:HIS:HB3	1:E:239:TRP:CA	2.25	0.67
1:H:92:HIS:HB3	1:H:239:TRP:CB	2.25	0.67
1:J:92:HIS:HB3	1:J:239:TRP:CA	2.25	0.67
1:Q:92:HIS:HB3	1:Q:239:TRP:CA	2.25	0.67
1:T:92:HIS:HB3	1:T:239:TRP:CB	2.25	0.67
1:Y:92:HIS:HB3	1:Y:239:TRP:CB	2.25	0.67
1:a:340:GLU:HG3	1:8:403:ARG:HH11	1.58	0.67
1:f:92:HIS:HB3	1:f:239:TRP:CB	2.25	0.67
1:g:148:GLN:HG3	1:g:276:THR:HG21	1.76	0.67
1:h:92:HIS:HB3	1:h:239:TRP:CA	2.25	0.67
1:q:92:HIS:HB3	1:q:239:TRP:CA	2.25	0.67
1:u:340:GLU:HG3	1:v:403:ARG:HH11	1.58	0.67
1:M:92:HIS:HB3	1:M:239:TRP:CA	2.25	0.66
1:N:92:HIS:HB3	1:N:239:TRP:CA	2.25	0.66
1:S:148:GLN:HG3	1:S:276:THR:HG21	1.76	0.66
1:T:162:ASN:HA	1:T:166:ALA:HA	1.77	0.66
1:V:92:HIS:HB3	1:V:239:TRP:CA	2.25	0.66
1:V:148:GLN:HG3	1:V:276:THR:HG21	1.76	0.66
1:X:403:ARG:HH11	1:e:340:GLU:HG3	1.58	0.66
1:e:148:GLN:HG3	1:e:276:THR:HG21	1.76	0.66
1:k:162:ASN:HA	1:k:166:ALA:HA	1.77	0.66
1:p:92:HIS:HB3	1:p:239:TRP:CA	2.25	0.66
1:p:148:GLN:HG3	1:p:276:THR:HG21	1.76	0.66
1:z:92:HIS:HB3	1:z:239:TRP:CB	2.25	0.66
1:3:92:HIS:HB3	1:3:239:TRP:CB	2.25	0.66
1:4:92:HIS:HB3	1:4:239:TRP:CB	2.25	0.66
1:8:92:HIS:HB3	1:8:239:TRP:CA	2.25	0.66
1:8:239:TRP:CZ3	1:8:242:VAL:C	2.64	0.66
1:A:336:HIS:CE1	1:G:402:THR:HG21	2.30	0.66
1:G:148:GLN:HG3	1:G:276:THR:HG21	1.76	0.66
1:H:148:GLN:HG3	1:H:276:THR:HG21	1.76	0.66
1:K:92:HIS:HB3	1:K:239:TRP:CA	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:92:HIS:HB3	1:L:239:TRP:CB	2.25	0.66
1:S:162:ASN:HA	1:S:166:ALA:HA	1.77	0.66
1:e:363:GLU:HG2	1:e:364:TRP:CD1	2.28	0.66
1:i:92:HIS:HB3	1:i:239:TRP:CA	2.25	0.66
1:r:148:GLN:HG3	1:r:276:THR:HG21	1.76	0.66
1:r:162:ASN:HA	1:r:166:ALA:HA	1.77	0.66
1:z:403:ARG:HH11	1:2:340:GLU:HG3	1.58	0.66
1:4:92:HIS:HB3	1:4:239:TRP:CA	2.25	0.66
1:5:92:HIS:HB3	1:5:239:TRP:CB	2.25	0.66
1:K:92:HIS:HB3	1:K:239:TRP:CB	2.25	0.66
1:U:148:GLN:HG3	1:U:276:THR:HG21	1.76	0.66
1:X:92:HIS:HB3	1:X:239:TRP:CB	2.25	0.66
1:c:340:GLU:HG3	1:o:403:ARG:HH11	1.58	0.66
1:f:148:GLN:HG3	1:f:276:THR:HG21	1.76	0.66
1:j:92:HIS:HB3	1:j:239:TRP:CB	2.25	0.66
1:n:148:GLN:HG3	1:n:276:THR:HG21	1.76	0.66
1:6:92:HIS:HB3	1:6:239:TRP:CA	2.25	0.66
1:7:96:LEU:H	1:7:96:LEU:CD2	2.03	0.66
1:J:340:GLU:HG3	1:L:403:ARG:HH11	1.58	0.66
1:T:92:HIS:HB3	1:T:239:TRP:CA	2.25	0.66
1:U:92:HIS:HB3	1:U:239:TRP:CB	2.25	0.66
1:Z:92:HIS:HB3	1:Z:239:TRP:CA	2.25	0.66
1:b:148:GLN:HG3	1:b:276:THR:HG21	1.76	0.66
1:c:148:GLN:HG3	1:c:276:THR:HG21	1.76	0.66
1:d:148:GLN:HG3	1:d:276:THR:HG21	1.76	0.66
1:i:92:HIS:HB3	1:i:239:TRP:CB	2.25	0.66
1:m:92:HIS:HB3	1:m:239:TRP:CA	2.25	0.66
1:s:148:GLN:HG3	1:s:276:THR:HG21	1.76	0.66
1:t:148:GLN:HG3	1:t:276:THR:HG21	1.76	0.66
1:1:92:HIS:HB3	1:1:239:TRP:CA	2.25	0.66
1:5:148:GLN:HG3	1:5:276:THR:HG21	1.76	0.66
1:K:162:ASN:HA	1:K:166:ALA:HA	1.77	0.66
1:N:92:HIS:HB3	1:N:239:TRP:CB	2.25	0.66
1:P:92:HIS:HB3	1:P:239:TRP:CB	2.25	0.66
1:W:148:GLN:HG3	1:W:276:THR:HG21	1.76	0.66
1:c:162:ASN:HA	1:c:166:ALA:HA	1.77	0.66
1:c:228:ASN:ND2	1:p:387:LYS:O	2.18	0.66
1:c:363:GLU:HG2	1:c:364:TRP:CD1	2.28	0.66
1:f:402:THR:HG21	1:g:336:HIS:CE1	2.31	0.66
1:j:92:HIS:HB3	1:j:239:TRP:CA	2.25	0.66
1:j:336:HIS:CE1	1:k:402:THR:HG21	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:387:LYS:O	1:k:228:ASN:ND2	2.18	0.66
1:o:336:HIS:CE1	1:p:402:THR:HG21	2.31	0.66
1:s:92:HIS:HB3	1:s:239:TRP:CB	2.25	0.66
1:4:148:GLN:HG3	1:4:276:THR:HG21	1.76	0.66
1:4:162:ASN:HA	1:4:166:ALA:HA	1.77	0.66
1:B:92:HIS:HB3	1:B:239:TRP:CA	2.25	0.66
1:C:336:HIS:CE1	1:b:402:THR:HG21	2.31	0.66
1:D:228:ASN:ND2	1:P:387:LYS:O	2.18	0.66
1:D:402:THR:HG21	1:P:336:HIS:CE1	2.31	0.66
1:N:148:GLN:HG3	1:N:276:THR:HG21	1.76	0.66
1:T:403:ARG:HH11	1:l:340:GLU:HG3	1.59	0.66
1:W:92:HIS:HB3	1:W:239:TRP:CA	2.25	0.66
1:e:162:ASN:HA	1:e:166:ALA:HA	1.77	0.66
1:o:92:HIS:HB3	1:o:239:TRP:CB	2.25	0.66
1:y:92:HIS:HB3	1:y:239:TRP:CA	2.25	0.66
1:1:92:HIS:HB3	1:1:239:TRP:CB	2.25	0.66
1:3:162:ASN:HA	1:3:166:ALA:HA	1.77	0.66
1:7:162:ASN:HA	1:7:166:ALA:HA	1.77	0.66
1:F:92:HIS:HB3	1:F:239:TRP:CA	2.25	0.66
1:F:402:THR:HG21	1:Q:336:HIS:CE1	2.31	0.66
1:I:92:HIS:HB3	1:I:239:TRP:CA	2.25	0.66
1:J:239:TRP:CZ3	1:J:242:VAL:C	2.64	0.66
1:K:148:GLN:HG3	1:K:276:THR:HG21	1.76	0.66
1:P:92:HIS:HB3	1:P:239:TRP:CA	2.25	0.66
1:X:92:HIS:HB3	1:X:239:TRP:CA	2.25	0.66
1:Y:162:ASN:HA	1:Y:166:ALA:HA	1.77	0.66
1:Z:336:HIS:CE1	1:4:402:THR:HG21	2.31	0.66
1:a:162:ASN:HA	1:a:166:ALA:HA	1.77	0.66
1:b:162:ASN:HA	1:b:166:ALA:HA	1.77	0.66
1:f:162:ASN:HA	1:f:166:ALA:HA	1.77	0.66
1:i:148:GLN:HG3	1:i:276:THR:HG21	1.76	0.66
1:n:92:HIS:HB3	1:n:239:TRP:CA	2.25	0.66
1:o:92:HIS:HB3	1:o:239:TRP:CA	2.25	0.66
1:u:336:HIS:CE1	1:v:402:THR:HG21	2.31	0.66
1:x:336:HIS:CE1	1:y:402:THR:HG21	2.31	0.66
1:z:402:THR:HG21	1:2:336:HIS:CE1	2.31	0.66
1:2:239:TRP:CZ3	1:2:242:VAL:C	2.64	0.66
1:6:148:GLN:HG3	1:6:276:THR:HG21	1.76	0.66
1:B:92:HIS:HB3	1:B:239:TRP:CB	2.25	0.66
1:H:402:THR:HG21	1:Y:336:HIS:CE1	2.31	0.66
1:J:336:HIS:CE1	1:L:402:THR:HG21	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:402:THR:HG21	1:8:336:HIS:CE1	2.31	0.66
1:O:340:GLU:HG3	1:m:403:ARG:HH11	1.59	0.66
1:R:336:HIS:CE1	1:S:402:THR:HG21	2.31	0.66
1:R:402:THR:HG21	1:U:336:HIS:CE1	2.31	0.66
1:V:162:ASN:HA	1:V:166:ALA:HA	1.77	0.66
1:d:92:HIS:HB3	1:d:239:TRP:CA	2.25	0.66
1:d:92:HIS:HB3	1:d:239:TRP:CB	2.25	0.66
1:m:148:GLN:HG3	1:m:276:THR:HG21	1.76	0.66
1:p:162:ASN:HA	1:p:166:ALA:HA	1.77	0.66
1:q:336:HIS:CE1	1:r:402:THR:HG21	2.31	0.66
1:q:402:THR:HG21	1:s:336:HIS:CE1	2.31	0.66
1:u:92:HIS:HB3	1:u:239:TRP:CA	2.25	0.66
1:2:148:GLN:HG3	1:2:276:THR:HG21	1.76	0.66
1:5:402:THR:HG21	1:7:336:HIS:CE1	2.31	0.66
1:8:92:HIS:HB3	1:8:239:TRP:CB	2.25	0.66
1:D:336:HIS:CE1	1:N:402:THR:HG21	2.31	0.66
1:M:402:THR:HG21	1:b:336:HIS:CE1	2.31	0.66
1:Z:92:HIS:HB3	1:Z:239:TRP:CB	2.25	0.66
1:f:336:HIS:CE1	1:h:402:THR:HG21	2.31	0.66
1:i:336:HIS:CE1	1:j:402:THR:HG21	2.31	0.66
1:v:148:GLN:HG3	1:v:276:THR:HG21	1.76	0.66
1:2:162:ASN:HA	1:2:166:ALA:HA	1.77	0.66
1:A:402:THR:HG21	1:I:336:HIS:CE1	2.31	0.66
1:C:402:THR:HG21	1:M:336:HIS:CE1	2.31	0.66
1:J:148:GLN:HG3	1:J:276:THR:HG21	1.76	0.66
1:L:162:ASN:HA	1:L:166:ALA:HA	1.77	0.66
1:N:162:ASN:HA	1:N:166:ALA:HA	1.77	0.66
1:T:148:GLN:HG3	1:T:276:THR:HG21	1.76	0.66
1:W:162:ASN:HA	1:W:166:ALA:HA	1.77	0.66
1:i:162:ASN:HA	1:i:166:ALA:HA	1.77	0.66
1:i:402:THR:HG21	1:k:336:HIS:CE1	2.31	0.66
1:j:148:GLN:HG3	1:j:276:THR:HG21	1.76	0.66
1:n:92:HIS:HB3	1:n:239:TRP:CB	2.25	0.66
1:A:148:GLN:HG3	1:A:276:THR:HG21	1.76	0.65
1:B:162:ASN:HA	1:B:166:ALA:HA	1.77	0.65
1:F:162:ASN:HA	1:F:166:ALA:HA	1.77	0.65
1:H:336:HIS:CE1	1:W:402:THR:HG21	2.31	0.65
1:J:162:ASN:HA	1:J:166:ALA:HA	1.77	0.65
1:M:92:HIS:HB3	1:M:239:TRP:CB	2.25	0.65
1:N:336:HIS:CE1	1:P:402:THR:HG21	2.31	0.65
1:P:148:GLN:HG3	1:P:276:THR:HG21	1.76	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:148:GLN:HG3	1:Z:276:THR:HG21	1.76	0.65
1:a:336:HIS:CE1	1:8:402:THR:HG21	2.31	0.65
1:d:239:TRP:CZ3	1:d:242:VAL:C	2.64	0.65
1:g:402:THR:HG21	1:h:336:HIS:CE1	2.31	0.65
1:6:162:ASN:HA	1:6:166:ALA:HA	1.77	0.65
1:O:336:HIS:CE1	1:m:402:THR:HG21	2.31	0.65
1:T:402:THR:HG21	1:l:336:HIS:CE1	2.31	0.65
1:z:162:ASN:HA	1:z:166:ALA:HA	1.77	0.65
1:1:148:GLN:HG3	1:1:276:THR:HG21	1.76	0.65
1:8:148:GLN:HG3	1:8:276:THR:HG21	1.76	0.65
1:B:148:GLN:HG3	1:B:276:THR:HG21	1.76	0.65
1:B:402:THR:HG21	1:L:336:HIS:CE1	2.31	0.65
1:X:247:LEU:HD22	1:e:317:LYS:HG2	1.79	0.65
1:Z:402:THR:HG21	1:3:336:HIS:CE1	2.31	0.65
1:d:336:HIS:CE1	1:l:402:THR:HG21	2.31	0.65
1:h:92:HIS:HB3	1:h:239:TRP:CB	2.25	0.65
1:w:336:HIS:CE1	1:x:402:THR:HG21	2.31	0.65
1:1:162:ASN:HA	1:1:166:ALA:HA	1.77	0.65
1:O:162:ASN:HA	1:O:166:ALA:HA	1.77	0.65
1:l:162:ASN:HA	1:l:166:ALA:HA	1.77	0.65
1:r:336:HIS:CE1	1:s:402:THR:HG21	2.31	0.65
1:w:402:THR:HG21	1:y:336:HIS:CE1	2.31	0.65
1:y:162:ASN:HA	1:y:166:ALA:HA	1.77	0.65
1:5:336:HIS:CE1	1:6:402:THR:HG21	2.31	0.65
1:E:162:ASN:HA	1:E:166:ALA:HA	1.77	0.65
1:E:336:HIS:CE1	1:Q:402:THR:HG21	2.31	0.65
1:E:402:THR:HG21	1:F:336:HIS:CE1	2.31	0.65
1:O:402:THR:HG21	1:n:336:HIS:CE1	2.31	0.65
1:S:336:HIS:CE1	1:U:402:THR:HG21	2.31	0.65
1:V:336:HIS:CE1	1:e:402:THR:HG21	2.31	0.65
1:W:336:HIS:CE1	1:Y:402:THR:HG21	2.31	0.65
1:h:162:ASN:HA	1:h:166:ALA:HA	1.77	0.65
1:t:402:THR:HG21	1:v:336:HIS:CE1	2.31	0.65
1:z:336:HIS:CE1	1:1:402:THR:HG21	2.31	0.65
1:3:402:THR:HG21	1:4:336:HIS:CE1	2.31	0.65
1:6:336:HIS:CE1	1:7:402:THR:HG21	2.31	0.65
1:D:247:LEU:HD22	1:P:317:LYS:HG2	1.79	0.65
1:K:336:HIS:CE1	1:a:402:THR:HG21	2.31	0.65
1:V:402:THR:HG21	1:X:336:HIS:CE1	2.32	0.65
1:c:402:THR:HG21	1:p:336:HIS:CE1	2.31	0.65
1:j:317:LYS:HG2	1:k:247:LEU:HD22	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:239:TRP:CZ3	1:n:242:VAL:C	2.64	0.65
1:q:162:ASN:HA	1:q:166:ALA:HA	1.77	0.65
1:s:162:ASN:HA	1:s:166:ALA:HA	1.77	0.65
1:w:162:ASN:HA	1:w:166:ALA:HA	1.77	0.65
1:E:317:LYS:HG2	1:Q:247:LEU:HD22	1.79	0.65
1:M:162:ASN:HA	1:M:166:ALA:HA	1.77	0.65
1:Q:162:ASN:HA	1:Q:166:ALA:HA	1.77	0.65
1:R:162:ASN:HA	1:R:166:ALA:HA	1.77	0.65
1:U:162:ASN:HA	1:U:166:ALA:HA	1.77	0.65
1:c:317:LYS:HG2	1:o:247:LEU:HD22	1.79	0.65
1:w:317:LYS:HG2	1:x:247:LEU:HD22	1.79	0.65
1:A:162:ASN:HA	1:A:166:ALA:HA	1.77	0.65
1:B:336:HIS:CE1	1:J:402:THR:HG21	2.31	0.65
1:C:162:ASN:HA	1:C:166:ALA:HA	1.77	0.65
1:F:247:LEU:HD22	1:Q:317:LYS:HG2	1.79	0.65
1:K:247:LEU:HD22	1:8:317:LYS:HG2	1.79	0.65
1:d:162:ASN:HA	1:d:166:ALA:HA	1.77	0.65
1:v:162:ASN:HA	1:v:166:ALA:HA	1.77	0.65
1:x:162:ASN:HA	1:x:166:ALA:HA	1.77	0.65
1:x:317:LYS:HG2	1:y:247:LEU:HD22	1.79	0.65
1:1:336:HIS:CE1	1:2:402:THR:HG21	2.31	0.65
1:D:317:LYS:HG2	1:N:247:LEU:HD22	1.79	0.65
1:E:247:LEU:HD22	1:F:317:LYS:HG2	1.79	0.65
1:R:247:LEU:HD22	1:U:317:LYS:HG2	1.79	0.65
1:b:239:TRP:CZ3	1:b:242:VAL:C	2.64	0.65
1:g:92:HIS:HB3	1:g:239:TRP:CA	2.25	0.65
1:g:162:ASN:HA	1:g:166:ALA:HA	1.77	0.65
1:m:336:HIS:CE1	1:n:402:THR:HG21	2.31	0.65
1:t:162:ASN:HA	1:t:166:ALA:HA	1.77	0.65
1:w:247:LEU:HD22	1:y:317:LYS:HG2	1.79	0.65
1:A:317:LYS:HG2	1:G:247:LEU:HD22	1.79	0.65
1:G:162:ASN:HA	1:G:166:ALA:HA	1.77	0.65
1:G:336:HIS:CE1	1:I:402:THR:HG21	2.31	0.65
1:N:317:LYS:HG2	1:P:247:LEU:HD22	1.79	0.65
1:X:162:ASN:HA	1:X:166:ALA:HA	1.77	0.65
1:Z:317:LYS:HG2	1:4:247:LEU:HD22	1.79	0.65
1:i:247:LEU:HD22	1:k:317:LYS:HG2	1.79	0.65
1:n:162:ASN:HA	1:n:166:ALA:HA	1.77	0.65
1:q:247:LEU:HD22	1:s:317:LYS:HG2	1.79	0.65
1:t:336:HIS:CE1	1:u:402:THR:HG21	2.31	0.65
1:T:336:HIS:CE1	1:d:402:THR:HG21	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:317:LYS:HG2	1:e:247:LEU:HD22	1.79	0.64
1:i:317:LYS:HG2	1:j:247:LEU:HD22	1.79	0.64
1:o:162:ASN:HA	1:o:166:ALA:HA	1.77	0.64
1:C:228:ASN:ND2	1:M:387:LYS:O	2.18	0.64
1:X:402:THR:HG21	1:e:336:HIS:CE1	2.31	0.64
1:c:247:LEU:HD22	1:p:317:LYS:HG2	1.79	0.64
1:t:247:LEU:HD22	1:v:317:LYS:HG2	1.79	0.64
1:K:317:LYS:HG2	1:a:247:LEU:HD22	1.79	0.64
1:W:629:LYS:NZ	1:X:308:THR:O	2.31	0.64
1:Z:247:LEU:HD22	1:3:317:LYS:HG2	1.79	0.64
1:f:92:HIS:HB3	1:f:239:TRP:CA	2.25	0.64
1:3:247:LEU:HD22	1:4:317:LYS:HG2	1.79	0.64
1:P:162:ASN:HA	1:P:166:ALA:HA	1.77	0.64
1:a:317:LYS:HG2	1:8:247:LEU:HD22	1.79	0.64
1:b:92:HIS:HB3	1:b:239:TRP:CA	2.25	0.64
1:j:162:ASN:HA	1:j:166:ALA:HA	1.77	0.64
1:C:247:LEU:HD22	1:M:317:LYS:HG2	1.79	0.64
1:C:317:LYS:HG2	1:b:247:LEU:HD22	1.79	0.64
1:L:92:HIS:HB3	1:L:239:TRP:CA	2.25	0.64
1:c:336:HIS:CE1	1:o:402:THR:HG21	2.31	0.64
1:f:239:TRP:CZ3	1:f:242:VAL:C	2.64	0.64
1:g:247:LEU:HD22	1:h:317:LYS:HG2	1.79	0.64
1:1:317:LYS:HG2	1:2:247:LEU:HD22	1.79	0.64
1:5:162:ASN:HA	1:5:166:ALA:HA	1.77	0.64
1:v:239:TRP:CZ3	1:v:242:VAL:C	2.64	0.64
1:B:317:LYS:HG2	1:J:247:LEU:HD22	1.79	0.64
1:M:247:LEU:HD22	1:b:317:LYS:HG2	1.79	0.64
1:f:247:LEU:HD22	1:g:317:LYS:HG2	1.79	0.64
1:f:317:LYS:HG2	1:h:247:LEU:HD22	1.79	0.64
1:q:317:LYS:HG2	1:r:247:LEU:HD22	1.79	0.64
1:z:92:HIS:HB3	1:z:239:TRP:CA	2.25	0.64
1:A:239:TRP:CZ3	1:A:242:VAL:C	2.64	0.64
1:G:317:LYS:HG2	1:I:247:LEU:HD22	1.79	0.64
1:H:317:LYS:HG2	1:W:247:LEU:HD22	1.79	0.64
1:W:317:LYS:HG2	1:Y:247:LEU:HD22	1.79	0.64
1:t:317:LYS:HG2	1:u:247:LEU:HD22	1.79	0.64
1:5:317:LYS:HG2	1:6:247:LEU:HD22	1.79	0.64
1:H:162:ASN:HA	1:H:166:ALA:HA	1.77	0.64
1:R:317:LYS:HG2	1:S:247:LEU:HD22	1.79	0.64
1:T:247:LEU:HD22	1:l:317:LYS:HG2	1.79	0.64
1:m:317:LYS:HG2	1:n:247:LEU:HD22	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:247:LEU:HD22	1:Y:317:LYS:HG2	1.79	0.63
1:O:317:LYS:HG2	1:m:247:LEU:HD22	1.79	0.63
1:T:317:LYS:HG2	1:d:247:LEU:HD22	1.79	0.63
1:u:317:LYS:HG2	1:v:247:LEU:HD22	1.79	0.63
1:6:317:LYS:HG2	1:7:247:LEU:HD22	1.79	0.63
1:A:247:LEU:HD22	1:I:317:LYS:HG2	1.79	0.63
1:5:247:LEU:HD22	1:7:317:LYS:HG2	1.79	0.63
1:B:247:LEU:HD22	1:L:317:LYS:HG2	1.79	0.63
1:J:317:LYS:HG2	1:L:247:LEU:HD22	1.79	0.63
1:o:317:LYS:HG2	1:p:247:LEU:HD22	1.79	0.63
1:z:247:LEU:HD22	1:2:317:LYS:HG2	1.79	0.63
1:z:317:LYS:HG2	1:1:247:LEU:HD22	1.79	0.63
1:E:308:THR:O	1:P:629:LYS:NZ	2.32	0.63
1:a:629:LYS:NZ	1:3:308:THR:O	2.32	0.63
1:j:629:LYS:NZ	1:w:308:THR:O	2.32	0.63
1:a:308:THR:O	1:3:629:LYS:NZ	2.32	0.63
1:u:308:THR:O	1:1:629:LYS:NZ	2.32	0.63
1:B:629:LYS:NZ	1:I:308:THR:O	2.32	0.63
1:b:629:LYS:NZ	1:c:308:THR:O	2.32	0.63
1:e:308:THR:O	1:f:629:LYS:NZ	2.32	0.63
1:S:317:LYS:HG2	1:U:247:LEU:HD22	1.79	0.63
1:m:629:LYS:NZ	1:r:308:THR:O	2.32	0.63
1:G:308:THR:O	1:H:629:LYS:NZ	2.32	0.62
1:S:308:THR:O	1:T:629:LYS:NZ	2.32	0.62
1:b:308:THR:O	1:c:629:LYS:NZ	2.32	0.62
1:t:308:THR:O	1:5:629:LYS:NZ	2.32	0.62
1:v:629:LYS:NZ	1:y:308:THR:O	2.32	0.62
1:C:629:LYS:NZ	1:L:308:THR:O	2.32	0.62
1:Q:308:THR:O	1:R:629:LYS:NZ	2.32	0.62
1:d:629:LYS:NZ	1:n:308:THR:O	2.32	0.62
1:e:629:LYS:NZ	1:f:308:THR:O	2.32	0.62
1:m:308:THR:O	1:r:629:LYS:NZ	2.32	0.62
1:o:308:THR:O	1:6:629:LYS:NZ	2.32	0.62
1:q:629:LYS:NZ	1:x:308:THR:O	2.32	0.62
1:r:317:LYS:HG2	1:s:247:LEU:HD22	1.79	0.62
1:Q:335:GLY:HA3	1:Q:337:PHE:CE2	2.35	0.62
1:S:629:LYS:NZ	1:T:308:THR:O	2.32	0.62
1:g:629:LYS:NZ	1:z:308:THR:O	2.32	0.62
1:x:335:GLY:HA3	1:x:337:PHE:CE2	2.35	0.62
1:6:335:GLY:HA3	1:6:337:PHE:CE2	2.35	0.62
1:E:335:GLY:HA3	1:E:337:PHE:CE2	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:335:GLY:HA3	1:H:337:PHE:CE2	2.35	0.62
1:J:335:GLY:HA3	1:J:337:PHE:CE2	2.35	0.62
1:W:335:GLY:HA3	1:W:337:PHE:CE2	2.35	0.62
1:d:308:THR:O	1:n:629:LYS:NZ	2.32	0.62
1:s:335:GLY:HA3	1:s:337:PHE:CE2	2.35	0.62
1:w:335:GLY:HA3	1:w:337:PHE:CE2	2.35	0.62
1:2:335:GLY:HA3	1:2:337:PHE:CE2	2.35	0.62
1:5:335:GLY:HA3	1:5:337:PHE:CE2	2.35	0.62
1:U:335:GLY:HA3	1:U:337:PHE:CE2	2.35	0.62
1:n:335:GLY:HA3	1:n:337:PHE:CE2	2.35	0.62
1:R:335:GLY:HA3	1:R:337:PHE:CE2	2.35	0.62
1:V:247:LEU:HD22	1:X:317:LYS:HG2	1.80	0.62
1:Y:308:THR:O	1:Z:629:LYS:NZ	2.32	0.62
1:1:335:GLY:HA3	1:1:337:PHE:CE2	2.35	0.62
1:7:308:THR:O	1:8:629:LYS:NZ	2.32	0.62
1:B:335:GLY:HA3	1:B:337:PHE:CE2	2.35	0.62
1:C:308:THR:O	1:L:629:LYS:NZ	2.32	0.62
1:O:247:LEU:HD22	1:n:317:LYS:HG2	1.79	0.62
1:Z:335:GLY:HA3	1:Z:337:PHE:CE2	2.35	0.62
1:g:335:GLY:HA3	1:g:337:PHE:CE2	2.35	0.62
1:q:335:GLY:HA3	1:q:337:PHE:CE2	2.35	0.62
1:8:335:GLY:HA3	1:8:337:PHE:CE2	2.35	0.62
1:A:629:LYS:NZ	1:F:308:THR:O	2.33	0.62
1:C:335:GLY:HA3	1:C:337:PHE:CE2	2.35	0.62
1:L:335:GLY:HA3	1:L:337:PHE:CE2	2.35	0.62
1:T:335:GLY:HA3	1:T:337:PHE:CE2	2.35	0.62
1:d:317:LYS:HG2	1:l:247:LEU:HD22	1.79	0.62
1:d:335:GLY:HA3	1:d:337:PHE:CE2	2.35	0.62
1:g:308:THR:O	1:z:629:LYS:NZ	2.32	0.62
1:h:629:LYS:NZ	1:k:308:THR:O	2.32	0.62
1:m:335:GLY:HA3	1:m:337:PHE:CE2	2.35	0.62
1:D:308:THR:O	1:M:629:LYS:NZ	2.32	0.62
1:N:629:LYS:NZ	1:O:308:THR:O	2.32	0.62
1:e:335:GLY:HA3	1:e:337:PHE:CE2	2.35	0.62
1:f:80:ILE:HG12	1:f:110:VAL:HG22	1.82	0.62
1:i:629:LYS:NZ	1:l:308:THR:O	2.32	0.62
1:z:335:GLY:HA3	1:z:337:PHE:CE2	2.35	0.62
1:A:308:THR:O	1:F:629:LYS:NZ	2.32	0.62
1:R:80:ILE:HG12	1:R:110:VAL:HG22	1.82	0.62
1:V:335:GLY:HA3	1:V:337:PHE:CE2	2.35	0.62
1:W:308:THR:O	1:X:629:LYS:NZ	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:80:ILE:HG12	1:b:110:VAL:HG22	1.82	0.62
1:k:335:GLY:HA3	1:k:337:PHE:CE2	2.35	0.62
1:p:335:GLY:HA3	1:p:337:PHE:CE2	2.35	0.62
1:q:80:ILE:HG12	1:q:110:VAL:HG22	1.82	0.62
1:J:80:ILE:HG12	1:J:110:VAL:HG22	1.82	0.61
1:M:335:GLY:HA3	1:M:337:PHE:CE2	2.35	0.61
1:X:335:GLY:HA3	1:X:337:PHE:CE2	2.35	0.61
1:a:335:GLY:HA3	1:a:337:PHE:CE2	2.35	0.61
1:c:335:GLY:HA3	1:c:337:PHE:CE2	2.35	0.61
1:f:335:GLY:HA3	1:f:337:PHE:CE2	2.35	0.61
1:h:335:GLY:HA3	1:h:337:PHE:CE2	2.35	0.61
1:2:80:ILE:HG12	1:2:110:VAL:HG22	1.82	0.61
1:3:335:GLY:HA3	1:3:337:PHE:CE2	2.35	0.61
1:7:335:GLY:HA3	1:7:337:PHE:CE2	2.35	0.61
1:D:335:GLY:HA3	1:D:337:PHE:CE2	2.35	0.61
1:E:629:LYS:NZ	1:P:308:THR:O	2.33	0.61
1:F:335:GLY:HA3	1:F:337:PHE:CE2	2.35	0.61
1:I:335:GLY:HA3	1:I:337:PHE:CE2	2.35	0.61
1:K:335:GLY:HA3	1:K:337:PHE:CE2	2.35	0.61
1:N:308:THR:O	1:O:629:LYS:NZ	2.32	0.61
1:O:80:ILE:HG12	1:O:110:VAL:HG22	1.82	0.61
1:S:80:ILE:HG12	1:S:110:VAL:HG22	1.82	0.61
1:U:308:THR:O	1:V:629:LYS:NZ	2.32	0.61
1:b:335:GLY:HA3	1:b:337:PHE:CE2	2.35	0.61
1:c:80:ILE:HG12	1:c:110:VAL:HG22	1.82	0.61
1:e:80:ILE:HG12	1:e:110:VAL:HG22	1.82	0.61
1:h:80:ILE:HG12	1:h:110:VAL:HG22	1.83	0.61
1:o:335:GLY:HA3	1:o:337:PHE:CE2	2.35	0.61
1:p:629:LYS:NZ	1:s:308:THR:O	2.32	0.61
1:r:80:ILE:HG12	1:r:110:VAL:HG22	1.82	0.61
1:t:629:LYS:NZ	1:5:308:THR:O	2.33	0.61
1:G:335:GLY:HA3	1:G:337:PHE:CE2	2.35	0.61
1:K:80:ILE:HG12	1:K:110:VAL:HG22	1.83	0.61
1:M:80:ILE:HG12	1:M:110:VAL:HG22	1.83	0.61
1:U:629:LYS:NZ	1:V:308:THR:O	2.32	0.61
1:i:308:THR:O	1:l:629:LYS:NZ	2.32	0.61
1:j:308:THR:O	1:w:629:LYS:NZ	2.33	0.61
1:t:335:GLY:HA3	1:t:337:PHE:CE2	2.35	0.61
1:u:335:GLY:HA3	1:u:337:PHE:CE2	2.35	0.61
1:y:335:GLY:HA3	1:y:337:PHE:CE2	2.35	0.61
1:4:80:ILE:HG12	1:4:110:VAL:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:335:GLY:HA3	1:4:337:PHE:CE2	2.35	0.61
1:B:80:ILE:HG12	1:B:110:VAL:HG22	1.82	0.61
1:G:629:LYS:NZ	1:H:308:THR:O	2.33	0.61
1:J:308:THR:O	1:K:629:LYS:NZ	2.32	0.61
1:J:629:LYS:NZ	1:K:308:THR:O	2.32	0.61
1:U:80:ILE:HG12	1:U:110:VAL:HG22	1.82	0.61
1:Y:335:GLY:HA3	1:Y:337:PHE:CE2	2.35	0.61
1:l:80:ILE:HG12	1:l:110:VAL:HG22	1.83	0.61
1:p:308:THR:O	1:s:629:LYS:NZ	2.32	0.61
1:1:80:ILE:HG12	1:1:110:VAL:HG22	1.82	0.61
1:2:308:THR:O	1:4:629:LYS:NZ	2.32	0.61
1:5:80:ILE:HG12	1:5:110:VAL:HG22	1.82	0.61
1:H:80:ILE:HG12	1:H:110:VAL:HG22	1.82	0.61
1:j:80:ILE:HG12	1:j:110:VAL:HG22	1.82	0.61
1:r:335:GLY:HA3	1:r:337:PHE:CE2	2.35	0.61
1:s:80:ILE:HG12	1:s:110:VAL:HG22	1.82	0.61
1:3:80:ILE:HG12	1:3:110:VAL:HG22	1.82	0.61
1:O:335:GLY:HA3	1:O:337:PHE:CE2	2.35	0.61
1:P:80:ILE:HG12	1:P:110:VAL:HG22	1.82	0.61
1:P:335:GLY:HA3	1:P:337:PHE:CE2	2.35	0.61
1:S:335:GLY:HA3	1:S:337:PHE:CE2	2.35	0.61
1:j:335:GLY:HA3	1:j:337:PHE:CE2	2.35	0.61
1:a:80:ILE:HG12	1:a:110:VAL:HG22	1.83	0.61
1:i:335:GLY:HA3	1:i:337:PHE:CE2	2.35	0.61
1:G:80:ILE:HG12	1:G:110:VAL:HG22	1.83	0.61
1:N:335:GLY:HA3	1:N:337:PHE:CE2	2.35	0.61
1:X:397:GLN:HG3	1:e:483:ASN:HD21	1.65	0.61
1:t:80:ILE:HG12	1:t:110:VAL:HG22	1.83	0.61
1:l:335:GLY:HA3	1:l:337:PHE:CE2	2.35	0.61
1:I:80:ILE:HG12	1:I:110:VAL:HG22	1.82	0.61
1:V:80:ILE:HG12	1:V:110:VAL:HG22	1.82	0.61
1:m:483:ASN:HD21	1:n:397:GLN:HG3	1.66	0.61
1:E:483:ASN:HD21	1:Q:397:GLN:HG3	1.66	0.60
1:K:483:ASN:HD21	1:a:397:GLN:HG3	1.66	0.60
1:O:397:GLN:HG3	1:n:483:ASN:HD21	1.66	0.60
1:Z:397:GLN:HG3	1:3:483:ASN:HD21	1.66	0.60
1:p:80:ILE:HG12	1:p:110:VAL:HG22	1.82	0.60
1:v:335:GLY:HA3	1:v:337:PHE:CE2	2.35	0.60
1:3:397:GLN:HG3	1:4:483:ASN:HD21	1.66	0.60
1:A:335:GLY:HA3	1:A:337:PHE:CE2	2.35	0.60
1:H:483:ASN:HD21	1:W:397:GLN:HG3	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:397:GLN:HG3	1:U:483:ASN:HD21	1.67	0.60
1:T:483:ASN:HD21	1:d:397:GLN:HG3	1.66	0.60
1:m:80:ILE:HG12	1:m:110:VAL:HG22	1.82	0.60
1:q:397:GLN:HG3	1:s:483:ASN:HD21	1.67	0.60
1:u:80:ILE:HG12	1:u:110:VAL:HG22	1.83	0.60
1:w:483:ASN:HD21	1:x:397:GLN:HG3	1.66	0.60
1:5:483:ASN:HD21	1:6:397:GLN:HG3	1.66	0.60
1:K:397:GLN:HG3	1:8:483:ASN:HD21	1.66	0.60
1:T:80:ILE:HG12	1:T:110:VAL:HG22	1.83	0.60
1:Z:483:ASN:HD21	1:4:397:GLN:HG3	1.66	0.60
1:a:483:ASN:HD21	1:8:397:GLN:HG3	1.67	0.60
1:d:483:ASN:HD21	1:l:397:GLN:HG3	1.67	0.60
1:x:483:ASN:HD21	1:y:397:GLN:HG3	1.66	0.60
1:D:80:ILE:HG12	1:D:110:VAL:HG22	1.82	0.60
1:F:397:GLN:HG3	1:Q:483:ASN:HD21	1.66	0.60
1:H:397:GLN:HG3	1:Y:483:ASN:HD21	1.66	0.60
1:R:483:ASN:HD21	1:S:397:GLN:HG3	1.67	0.60
1:Z:80:ILE:HG12	1:Z:110:VAL:HG22	1.82	0.60
1:h:308:THR:O	1:k:629:LYS:NZ	2.32	0.60
1:k:80:ILE:HG12	1:k:110:VAL:HG22	1.82	0.60
1:v:308:THR:O	1:y:629:LYS:NZ	2.32	0.60
1:5:397:GLN:HG3	1:7:483:ASN:HD21	1.66	0.60
1:7:629:LYS:NZ	1:8:308:THR:O	2.32	0.60
1:8:80:ILE:HG12	1:8:110:VAL:HG22	1.83	0.60
1:N:483:ASN:HD21	1:P:397:GLN:HG3	1.66	0.60
1:Y:629:LYS:NZ	1:Z:308:THR:O	2.32	0.60
1:i:80:ILE:HG12	1:i:110:VAL:HG22	1.82	0.60
1:o:80:ILE:HG12	1:o:110:VAL:HG22	1.83	0.60
1:q:483:ASN:HD21	1:r:397:GLN:HG3	1.67	0.60
1:A:80:ILE:HG12	1:A:110:VAL:HG22	1.82	0.60
1:D:629:LYS:NZ	1:M:308:THR:O	2.32	0.60
1:F:80:ILE:HG12	1:F:110:VAL:HG22	1.82	0.60
1:X:80:ILE:HG12	1:X:110:VAL:HG22	1.82	0.60
1:i:483:ASN:HD21	1:j:397:GLN:HG3	1.66	0.60
1:o:483:ASN:HD21	1:p:397:GLN:HG3	1.66	0.60
1:r:600:THR:HG21	1:s:188:ILE:HG23	1.84	0.60
1:2:629:LYS:NZ	1:4:308:THR:O	2.32	0.60
1:B:397:GLN:HG3	1:L:483:ASN:HD21	1.67	0.60
1:E:600:THR:HG21	1:Q:188:ILE:HG23	1.84	0.60
1:V:600:THR:HG21	1:e:188:ILE:HG23	1.84	0.60
1:c:188:ILE:HG23	1:p:600:THR:HG21	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:80:ILE:HG12	1:g:110:VAL:HG22	1.82	0.60
1:m:600:THR:HG21	1:n:188:ILE:HG23	1.84	0.60
1:o:629:LYS:NZ	1:6:308:THR:O	2.32	0.60
1:w:600:THR:HG21	1:x:188:ILE:HG23	1.84	0.60
1:C:80:ILE:HG12	1:C:110:VAL:HG22	1.82	0.60
1:D:188:ILE:HG23	1:P:600:THR:HG21	1.84	0.60
1:E:397:GLN:HG3	1:F:483:ASN:HD21	1.67	0.60
1:F:188:ILE:HG23	1:Q:600:THR:HG21	1.84	0.60
1:N:80:ILE:HG12	1:N:110:VAL:HG22	1.82	0.60
1:O:600:THR:HG21	1:m:188:ILE:HG23	1.84	0.60
1:R:188:ILE:HG23	1:U:600:THR:HG21	1.84	0.60
1:S:483:ASN:HD21	1:U:397:GLN:HG3	1.67	0.60
1:S:600:THR:HG21	1:U:188:ILE:HG23	1.84	0.60
1:T:188:ILE:HG23	1:l:600:THR:HG21	1.84	0.60
1:T:397:GLN:HG3	1:l:483:ASN:HD21	1.66	0.60
1:T:600:THR:HG21	1:d:188:ILE:HG23	1.84	0.60
1:V:397:GLN:HG3	1:X:483:ASN:HD21	1.66	0.60
1:j:600:THR:HG21	1:k:188:ILE:HG23	1.84	0.60
1:q:188:ILE:HG23	1:s:600:THR:HG21	1.84	0.60
1:r:483:ASN:HD21	1:s:397:GLN:HG3	1.67	0.60
1:u:629:LYS:NZ	1:1:308:THR:O	2.32	0.60
1:v:80:ILE:HG12	1:v:110:VAL:HG22	1.82	0.60
1:w:397:GLN:HG3	1:y:483:ASN:HD21	1.67	0.60
1:x:600:THR:HG21	1:y:188:ILE:HG23	1.84	0.60
1:y:80:ILE:HG12	1:y:110:VAL:HG22	1.82	0.60
1:z:483:ASN:HD21	1:1:397:GLN:HG3	1.67	0.60
1:G:96:LEU:H	1:G:96:LEU:CD2	2.03	0.60
1:L:80:ILE:HG12	1:L:110:VAL:HG22	1.82	0.60
1:W:600:THR:HG21	1:Y:188:ILE:HG23	1.84	0.60
1:o:600:THR:HG21	1:p:188:ILE:HG23	1.84	0.60
1:t:483:ASN:HD21	1:u:397:GLN:HG3	1.66	0.60
1:z:80:ILE:HG12	1:z:110:VAL:HG22	1.82	0.60
1:B:308:THR:O	1:I:629:LYS:NZ	2.32	0.60
1:D:600:THR:HG21	1:N:188:ILE:HG23	1.84	0.60
1:G:483:ASN:HD21	1:I:397:GLN:HG3	1.66	0.60
1:O:483:ASN:HD21	1:m:397:GLN:HG3	1.66	0.60
1:V:483:ASN:HD21	1:e:397:GLN:HG3	1.67	0.60
1:i:188:ILE:HG23	1:k:600:THR:HG21	1.84	0.60
1:C:290:LEU:HD23	1:C:640:ARG:O	2.02	0.59
1:E:80:ILE:HG12	1:E:110:VAL:HG22	1.83	0.59
1:I:290:LEU:HD23	1:I:640:ARG:O	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:80:ILE:HG12	1:W:110:VAL:HG22	1.82	0.59
1:c:397:GLN:HG3	1:p:483:ASN:HD21	1.66	0.59
1:c:483:ASN:HD21	1:o:397:GLN:HG3	1.67	0.59
1:g:290:LEU:HD23	1:g:640:ARG:O	2.02	0.59
1:5:505:LYS:HG3	1:5:506:LEU:HD13	1.84	0.59
1:6:80:ILE:HG12	1:6:110:VAL:HG22	1.82	0.59
1:6:600:THR:HG21	1:7:188:ILE:HG23	1.84	0.59
1:A:600:THR:HG21	1:G:188:ILE:HG23	1.83	0.59
1:D:483:ASN:HD21	1:N:397:GLN:HG3	1.66	0.59
1:F:290:LEU:HD23	1:F:640:ARG:O	2.03	0.59
1:Z:188:ILE:HG23	1:3:600:THR:HG21	1.84	0.59
1:c:290:LEU:HD23	1:c:640:ARG:O	2.03	0.59
1:e:290:LEU:HD23	1:e:640:ARG:O	2.03	0.59
1:u:290:LEU:HD23	1:u:640:ARG:O	2.02	0.59
1:w:80:ILE:HG12	1:w:110:VAL:HG22	1.83	0.59
1:y:290:LEU:HD23	1:y:640:ARG:O	2.03	0.59
1:1:505:LYS:HG3	1:1:506:LEU:HD13	1.84	0.59
1:A:483:ASN:HD21	1:G:397:GLN:HG3	1.65	0.59
1:B:505:LYS:HG3	1:B:506:LEU:HD13	1.84	0.59
1:C:188:ILE:HG23	1:M:600:THR:HG21	1.84	0.59
1:E:188:ILE:HG23	1:F:600:THR:HG21	1.84	0.59
1:E:290:LEU:HD23	1:E:640:ARG:O	2.03	0.59
1:G:505:LYS:HG3	1:G:506:LEU:HD13	1.84	0.59
1:H:505:LYS:HG3	1:H:506:LEU:HD13	1.85	0.59
1:M:397:GLN:HG3	1:b:483:ASN:HD21	1.67	0.59
1:Q:80:ILE:HG12	1:Q:110:VAL:HG22	1.82	0.59
1:Y:290:LEU:HD23	1:Y:640:ARG:O	2.03	0.59
1:a:600:THR:HG21	1:8:188:ILE:HG23	1.84	0.59
1:q:308:THR:O	1:x:629:LYS:NZ	2.32	0.59
1:r:239:TRP:HZ3	1:r:242:VAL:O	1.86	0.59
1:t:505:LYS:HG3	1:t:506:LEU:HD13	1.84	0.59
1:u:600:THR:HG21	1:v:188:ILE:HG23	1.84	0.59
1:w:188:ILE:HG23	1:y:600:THR:HG21	1.84	0.59
1:w:290:LEU:HD23	1:w:640:ARG:O	2.03	0.59
1:6:505:LYS:HG3	1:6:506:LEU:HD13	1.85	0.59
1:7:290:LEU:HD23	1:7:640:ARG:O	2.03	0.59
1:D:96:LEU:H	1:D:96:LEU:CD2	2.03	0.59
1:G:290:LEU:HD23	1:G:640:ARG:O	2.03	0.59
1:J:290:LEU:HD23	1:J:640:ARG:O	2.03	0.59
1:O:188:ILE:HG23	1:n:600:THR:HG21	1.84	0.59
1:S:239:TRP:HZ3	1:S:242:VAL:O	1.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:290:LEU:HD23	1:W:640:ARG:O	2.03	0.59
1:W:505:LYS:HG3	1:W:506:LEU:HD13	1.85	0.59
1:Y:505:LYS:HG3	1:Y:506:LEU:HD13	1.84	0.59
1:d:600:THR:HG21	1:l:188:ILE:HG23	1.84	0.59
1:f:483:ASN:HD21	1:h:397:GLN:HG3	1.67	0.59
1:i:397:GLN:HG3	1:k:483:ASN:HD21	1.66	0.59
1:n:505:LYS:HG3	1:n:506:LEU:HD13	1.85	0.59
1:s:505:LYS:HG3	1:s:506:LEU:HD13	1.84	0.59
1:u:505:LYS:HG3	1:u:506:LEU:HD13	1.84	0.59
1:x:80:ILE:HG12	1:x:110:VAL:HG22	1.83	0.59
1:2:290:LEU:HD23	1:2:640:ARG:O	2.03	0.59
1:6:290:LEU:HD23	1:6:640:ARG:O	2.03	0.59
1:C:397:GLN:HG3	1:M:483:ASN:HD21	1.66	0.59
1:C:483:ASN:HD21	1:b:397:GLN:HG3	1.66	0.59
1:D:290:LEU:HD23	1:D:640:ARG:O	2.03	0.59
1:I:505:LYS:HG3	1:I:506:LEU:HD13	1.84	0.59
1:J:505:LYS:HG3	1:J:506:LEU:HD13	1.84	0.59
1:M:290:LEU:HD23	1:M:640:ARG:O	2.03	0.59
1:Q:239:TRP:HZ3	1:Q:242:VAL:O	1.86	0.59
1:U:290:LEU:HD23	1:U:640:ARG:O	2.03	0.59
1:U:505:LYS:HG3	1:U:506:LEU:HD13	1.84	0.59
1:V:290:LEU:HD23	1:V:640:ARG:O	2.03	0.59
1:d:505:LYS:HG3	1:d:506:LEU:HD13	1.85	0.59
1:g:188:ILE:HG23	1:h:600:THR:HG21	1.84	0.59
1:h:290:LEU:HD23	1:h:640:ARG:O	2.03	0.59
1:s:290:LEU:HD23	1:s:640:ARG:O	2.03	0.59
1:t:290:LEU:HD23	1:t:640:ARG:O	2.03	0.59
1:x:239:TRP:HZ3	1:x:242:VAL:O	1.86	0.59
1:x:290:LEU:HD23	1:x:640:ARG:O	2.02	0.59
1:1:483:ASN:HD21	1:2:397:GLN:HG3	1.67	0.59
1:2:505:LYS:HG3	1:2:506:LEU:HD13	1.84	0.59
1:3:188:ILE:HG23	1:4:600:THR:HG21	1.84	0.59
1:B:483:ASN:HD21	1:J:397:GLN:HG3	1.67	0.59
1:E:505:LYS:HG3	1:E:506:LEU:HD13	1.84	0.59
1:F:239:TRP:HZ3	1:F:242:VAL:O	1.86	0.59
1:H:96:LEU:H	1:H:96:LEU:CD2	2.03	0.59
1:K:600:THR:HG21	1:a:188:ILE:HG23	1.84	0.59
1:O:290:LEU:HD23	1:O:640:ARG:O	2.03	0.59
1:Q:290:LEU:HD23	1:Q:640:ARG:O	2.02	0.59
1:Q:629:LYS:NZ	1:R:308:THR:O	2.32	0.59
1:R:600:THR:HG21	1:S:188:ILE:HG23	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:152:ASN:ND2	1:Y:269:ARG:HH22	2.00	0.59
1:f:397:GLN:HG3	1:g:483:ASN:HD21	1.66	0.59
1:i:600:THR:HG21	1:j:188:ILE:HG23	1.84	0.59
1:j:483:ASN:HD21	1:k:397:GLN:HG3	1.66	0.59
1:k:290:LEU:HD23	1:k:640:ARG:O	2.03	0.59
1:p:239:TRP:HZ3	1:p:242:VAL:O	1.86	0.59
1:p:290:LEU:HD23	1:p:640:ARG:O	2.02	0.59
1:q:600:THR:HG21	1:r:188:ILE:HG23	1.84	0.59
1:t:96:LEU:H	1:t:96:LEU:CD2	2.03	0.59
1:t:239:TRP:HZ3	1:t:242:VAL:O	1.86	0.59
1:w:505:LYS:HG3	1:w:506:LEU:HD13	1.84	0.59
1:1:290:LEU:HD23	1:1:640:ARG:O	2.03	0.59
1:3:239:TRP:HZ3	1:3:242:VAL:O	1.86	0.59
1:3:505:LYS:HG3	1:3:506:LEU:HD13	1.85	0.59
1:7:80:ILE:HG12	1:7:110:VAL:HG22	1.82	0.59
1:7:505:LYS:HG3	1:7:506:LEU:HD13	1.85	0.59
1:8:505:LYS:HG3	1:8:506:LEU:HD13	1.84	0.59
1:B:290:LEU:HD23	1:B:640:ARG:O	2.03	0.59
1:D:397:GLN:HG3	1:P:483:ASN:HD21	1.66	0.59
1:N:290:LEU:HD23	1:N:640:ARG:O	2.03	0.59
1:N:600:THR:HG21	1:P:188:ILE:HG23	1.84	0.59
1:T:505:LYS:HG3	1:T:506:LEU:HD13	1.84	0.59
1:V:239:TRP:HZ3	1:V:242:VAL:O	1.86	0.59
1:W:483:ASN:HD21	1:Y:397:GLN:HG3	1.66	0.59
1:Z:505:LYS:HG3	1:Z:506:LEU:HD13	1.85	0.59
1:a:505:LYS:HG3	1:a:506:LEU:HD13	1.85	0.59
1:g:397:GLN:HG3	1:h:483:ASN:HD21	1.66	0.59
1:l:290:LEU:HD23	1:l:640:ARG:O	2.03	0.59
1:q:290:LEU:HD23	1:q:640:ARG:O	2.03	0.59
1:q:397:GLN:NE2	1:s:481:TYR:HA	2.18	0.59
1:y:239:TRP:HZ3	1:y:242:VAL:O	1.86	0.59
1:5:188:ILE:HG23	1:7:600:THR:HG21	1.84	0.59
1:B:188:ILE:HG23	1:L:600:THR:HG21	1.84	0.59
1:B:239:TRP:HZ3	1:B:242:VAL:O	1.86	0.59
1:G:239:TRP:HZ3	1:G:242:VAL:O	1.86	0.59
1:H:188:ILE:HG23	1:Y:600:THR:HG21	1.84	0.59
1:N:505:LYS:HG3	1:N:506:LEU:HD13	1.85	0.59
1:P:290:LEU:HD23	1:P:640:ARG:O	2.03	0.59
1:R:290:LEU:HD23	1:R:640:ARG:O	2.03	0.59
1:R:397:GLN:NE2	1:U:481:TYR:HA	2.18	0.59
1:Z:290:LEU:HD23	1:Z:640:ARG:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:239:TRP:HZ3	1:a:242:VAL:O	1.86	0.59
1:i:290:LEU:HD23	1:i:640:ARG:O	2.03	0.59
1:l:505:LYS:HG3	1:l:506:LEU:HD13	1.84	0.59
1:z:397:GLN:HG3	1:2:483:ASN:HD21	1.67	0.59
1:1:239:TRP:HZ3	1:1:242:VAL:O	1.86	0.59
1:6:483:ASN:HD21	1:7:397:GLN:HG3	1.66	0.59
1:8:290:LEU:HD23	1:8:640:ARG:O	2.03	0.59
1:A:188:ILE:HG23	1:I:600:THR:HG21	1.85	0.59
1:A:505:LYS:HG3	1:A:506:LEU:HD13	1.85	0.59
1:B:600:THR:HG21	1:J:188:ILE:HG23	1.84	0.59
1:D:481:TYR:HA	1:N:397:GLN:NE2	2.18	0.59
1:J:600:THR:HG21	1:L:188:ILE:HG23	1.84	0.59
1:N:481:TYR:HA	1:P:397:GLN:NE2	2.18	0.59
1:S:481:TYR:HA	1:U:397:GLN:NE2	2.18	0.59
1:S:505:LYS:HG3	1:S:506:LEU:HD13	1.84	0.59
1:d:80:ILE:HG12	1:d:110:VAL:HG22	1.83	0.59
1:d:290:LEU:HD23	1:d:640:ARG:O	2.03	0.59
1:i:481:TYR:HA	1:j:397:GLN:NE2	2.18	0.59
1:i:505:LYS:HG3	1:i:506:LEU:HD13	1.85	0.59
1:j:290:LEU:HD23	1:j:640:ARG:O	2.03	0.59
1:k:96:LEU:H	1:k:96:LEU:CD2	2.03	0.59
1:m:505:LYS:HG3	1:m:506:LEU:HD13	1.85	0.59
1:r:481:TYR:HA	1:s:397:GLN:NE2	2.18	0.59
1:z:188:ILE:HG23	1:2:600:THR:HG21	1.84	0.59
1:z:600:THR:HG21	1:1:188:ILE:HG23	1.84	0.59
1:A:397:GLN:HG3	1:I:483:ASN:HD21	1.66	0.59
1:D:505:LYS:HG3	1:D:506:LEU:HD13	1.85	0.59
1:J:483:ASN:HD21	1:L:397:GLN:HG3	1.67	0.59
1:K:481:TYR:HA	1:a:397:GLN:NE2	2.18	0.59
1:K:505:LYS:HG3	1:K:506:LEU:HD13	1.84	0.59
1:M:397:GLN:NE2	1:b:481:TYR:HA	2.18	0.59
1:O:505:LYS:HG3	1:O:506:LEU:HD13	1.85	0.59
1:W:239:TRP:HZ3	1:W:242:VAL:O	1.86	0.59
1:W:481:TYR:HA	1:Y:397:GLN:NE2	2.18	0.59
1:Y:80:ILE:HG12	1:Y:110:VAL:HG22	1.82	0.59
1:f:481:TYR:HA	1:h:397:GLN:NE2	2.18	0.59
1:i:397:GLN:NE2	1:k:481:TYR:HA	2.18	0.59
1:j:481:TYR:HA	1:k:397:GLN:NE2	2.18	0.59
1:n:80:ILE:HG12	1:n:110:VAL:HG22	1.83	0.59
1:n:290:LEU:HD23	1:n:640:ARG:O	2.02	0.59
1:t:188:ILE:HG23	1:v:600:THR:HG21	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:505:LYS:HG3	1:v:506:LEU:HD13	1.85	0.59
1:1:600:THR:HG21	1:2:188:ILE:HG23	1.84	0.59
1:5:600:THR:HG21	1:6:188:ILE:HG23	1.84	0.59
1:6:481:TYR:HA	1:7:397:GLN:NE2	2.18	0.59
1:D:397:GLN:NE2	1:P:481:TYR:HA	2.18	0.58
1:F:505:LYS:HG3	1:F:506:LEU:HD13	1.85	0.58
1:H:600:THR:HG21	1:W:188:ILE:HG23	1.84	0.58
1:O:397:GLN:NE2	1:n:481:TYR:HA	2.18	0.58
1:R:481:TYR:HA	1:S:397:GLN:NE2	2.18	0.58
1:a:290:LEU:HD23	1:a:640:ARG:O	2.03	0.58
1:i:511:GLN:HB2	1:i:512:PRO:HD2	1.86	0.58
1:k:505:LYS:HG3	1:k:506:LEU:HD13	1.85	0.58
1:m:290:LEU:HD23	1:m:640:ARG:O	2.03	0.58
1:o:290:LEU:HD23	1:o:640:ARG:O	2.03	0.58
1:q:481:TYR:HA	1:r:397:GLN:NE2	2.18	0.58
1:r:505:LYS:HG3	1:r:506:LEU:HD13	1.84	0.58
1:y:505:LYS:HG3	1:y:506:LEU:HD13	1.85	0.58
1:z:481:TYR:HA	1:1:397:GLN:NE2	2.18	0.58
1:3:290:LEU:HD23	1:3:640:ARG:O	2.03	0.58
1:3:397:GLN:NE2	1:4:481:TYR:HA	2.18	0.58
1:4:213:GLN:O	1:4:215:ARG:NH1	2.36	0.58
1:4:505:LYS:HG3	1:4:506:LEU:HD13	1.84	0.58
1:6:239:TRP:HZ3	1:6:242:VAL:O	1.86	0.58
1:B:213:GLN:O	1:B:215:ARG:NH1	2.36	0.58
1:B:397:GLN:NE2	1:L:481:TYR:HA	2.18	0.58
1:C:96:LEU:H	1:C:96:LEU:CD2	2.03	0.58
1:C:213:GLN:O	1:C:215:ARG:NH1	2.36	0.58
1:E:239:TRP:HZ3	1:E:242:VAL:O	1.86	0.58
1:G:600:THR:HG21	1:I:188:ILE:HG23	1.84	0.58
1:K:213:GLN:O	1:K:215:ARG:NH1	2.36	0.58
1:T:290:LEU:HD23	1:T:640:ARG:O	2.02	0.58
1:X:290:LEU:HD23	1:X:640:ARG:O	2.02	0.58
1:Y:511:GLN:HB2	1:Y:512:PRO:HD2	1.86	0.58
1:Z:397:GLN:NE2	1:3:481:TYR:HA	2.18	0.58
1:b:213:GLN:O	1:b:215:ARG:NH1	2.36	0.58
1:d:481:TYR:HA	1:l:397:GLN:NE2	2.18	0.58
1:f:213:GLN:O	1:f:215:ARG:NH1	2.36	0.58
1:i:213:GLN:O	1:i:215:ARG:NH1	2.36	0.58
1:t:600:THR:HG21	1:u:188:ILE:HG23	1.84	0.58
1:v:239:TRP:HZ3	1:v:242:VAL:O	1.86	0.58
1:1:213:GLN:O	1:1:215:ARG:NH1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:511:GLN:HB2	1:7:512:PRO:HD2	1.86	0.58
1:C:397:GLN:NE2	1:M:481:TYR:HA	2.18	0.58
1:E:481:TYR:HA	1:Q:397:GLN:NE2	2.19	0.58
1:F:511:GLN:HB2	1:F:512:PRO:HD2	1.86	0.58
1:J:213:GLN:O	1:J:215:ARG:NH1	2.36	0.58
1:J:511:GLN:HB2	1:J:512:PRO:HD2	1.86	0.58
1:M:511:GLN:HB2	1:M:512:PRO:HD2	1.86	0.58
1:N:213:GLN:O	1:N:215:ARG:NH1	2.36	0.58
1:N:511:GLN:HB2	1:N:512:PRO:HD2	1.86	0.58
1:P:239:TRP:HZ3	1:P:242:VAL:O	1.86	0.58
1:R:239:TRP:HZ3	1:R:242:VAL:O	1.86	0.58
1:T:213:GLN:O	1:T:215:ARG:NH1	2.36	0.58
1:T:511:GLN:HB2	1:T:512:PRO:HD2	1.86	0.58
1:U:239:TRP:HZ3	1:U:242:VAL:O	1.86	0.58
1:W:313:LYS:NZ	1:X:619:ASP:OD2	2.36	0.58
1:X:213:GLN:O	1:X:215:ARG:NH1	2.36	0.58
1:Z:481:TYR:HA	1:4:397:GLN:NE2	2.18	0.58
1:Z:600:THR:HG21	1:4:188:ILE:HG23	1.84	0.58
1:c:511:GLN:HB2	1:c:512:PRO:HD2	1.86	0.58
1:g:213:GLN:O	1:g:215:ARG:NH1	2.36	0.58
1:g:397:GLN:NE2	1:h:481:TYR:HA	2.18	0.58
1:h:511:GLN:HB2	1:h:512:PRO:HD2	1.86	0.58
1:j:239:TRP:HZ3	1:j:242:VAL:O	1.86	0.58
1:m:213:GLN:O	1:m:215:ARG:NH1	2.36	0.58
1:m:481:TYR:HA	1:n:397:GLN:NE2	2.18	0.58
1:m:511:GLN:HB2	1:m:512:PRO:HD2	1.86	0.58
1:o:213:GLN:O	1:o:215:ARG:NH1	2.36	0.58
1:s:239:TRP:HZ3	1:s:242:VAL:O	1.86	0.58
1:u:239:TRP:HZ3	1:u:242:VAL:O	1.86	0.58
1:v:90:LYS:NZ	1:v:244:ASP:OD2	2.32	0.58
1:w:481:TYR:HA	1:x:397:GLN:NE2	2.19	0.58
1:2:213:GLN:O	1:2:215:ARG:NH1	2.36	0.58
1:2:511:GLN:HB2	1:2:512:PRO:HD2	1.86	0.58
1:5:290:LEU:HD23	1:5:640:ARG:O	2.02	0.58
1:A:239:TRP:HZ3	1:A:242:VAL:O	1.86	0.58
1:A:397:GLN:NE2	1:I:481:TYR:HA	2.18	0.58
1:C:481:TYR:HA	1:b:397:GLN:NE2	2.18	0.58
1:E:511:GLN:HB2	1:E:512:PRO:HD2	1.86	0.58
1:I:239:TRP:HZ3	1:I:242:VAL:O	1.86	0.58
1:K:188:ILE:HG23	1:8:600:THR:HG21	1.84	0.58
1:L:290:LEU:HD23	1:L:640:ARG:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:511:GLN:HB2	1:L:512:PRO:HD2	1.86	0.58
1:M:213:GLN:O	1:M:215:ARG:NH1	2.36	0.58
1:R:213:GLN:O	1:R:215:ARG:NH1	2.36	0.58
1:T:481:TYR:HA	1:d:397:GLN:NE2	2.18	0.58
1:a:481:TYR:HA	1:8:397:GLN:NE2	2.18	0.58
1:c:397:GLN:NE2	1:p:481:TYR:HA	2.18	0.58
1:e:511:GLN:HB2	1:e:512:PRO:HD2	1.86	0.58
1:f:397:GLN:NE2	1:g:481:TYR:HA	2.18	0.58
1:h:213:GLN:O	1:h:215:ARG:NH1	2.36	0.58
1:u:481:TYR:HA	1:v:397:GLN:NE2	2.18	0.58
1:w:239:TRP:HZ3	1:w:242:VAL:O	1.86	0.58
1:w:511:GLN:HB2	1:w:512:PRO:HD2	1.86	0.58
1:x:481:TYR:HA	1:y:397:GLN:NE2	2.18	0.58
1:y:511:GLN:HB2	1:y:512:PRO:HD2	1.86	0.58
1:z:290:LEU:HD23	1:z:640:ARG:O	2.03	0.58
1:8:511:GLN:HB2	1:8:512:PRO:HD2	1.86	0.58
1:F:397:GLN:NE2	1:Q:481:TYR:HA	2.18	0.58
1:K:290:LEU:HD23	1:K:640:ARG:O	2.02	0.58
1:V:481:TYR:HA	1:e:397:GLN:NE2	2.18	0.58
1:X:239:TRP:HZ3	1:X:242:VAL:O	1.86	0.58
1:Z:239:TRP:HZ3	1:Z:242:VAL:O	1.86	0.58
1:o:239:TRP:HZ3	1:o:242:VAL:O	1.86	0.58
1:q:213:GLN:O	1:q:215:ARG:NH1	2.36	0.58
1:q:239:TRP:HZ3	1:q:242:VAL:O	1.86	0.58
1:t:397:GLN:HG3	1:v:483:ASN:HD21	1.67	0.58
1:u:483:ASN:HD21	1:v:397:GLN:HG3	1.66	0.58
1:z:239:TRP:HZ3	1:z:242:VAL:O	1.86	0.58
1:z:511:GLN:HB2	1:z:512:PRO:HD2	1.86	0.58
1:4:290:LEU:HD23	1:4:640:ARG:O	2.03	0.58
1:8:239:TRP:HZ3	1:8:242:VAL:O	1.86	0.58
1:A:90:LYS:NZ	1:A:244:ASP:OD2	2.32	0.58
1:F:213:GLN:O	1:F:215:ARG:NH1	2.36	0.58
1:H:239:TRP:HZ3	1:H:242:VAL:O	1.86	0.58
1:H:290:LEU:HD23	1:H:640:ARG:O	2.03	0.58
1:K:397:GLN:NE2	1:8:481:TYR:HA	2.18	0.58
1:L:239:TRP:HZ3	1:L:242:VAL:O	1.86	0.58
1:M:188:ILE:HG23	1:b:600:THR:HG21	1.84	0.58
1:P:505:LYS:HG3	1:P:506:LEU:HD13	1.85	0.58
1:Z:511:GLN:HB2	1:Z:512:PRO:HD2	1.86	0.58
1:b:505:LYS:HG3	1:b:506:LEU:HD13	1.84	0.58
1:f:600:THR:HG21	1:h:188:ILE:HG23	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:505:LYS:HG3	1:j:506:LEU:HD13	1.85	0.58
1:o:505:LYS:HG3	1:o:506:LEU:HD13	1.84	0.58
1:r:290:LEU:HD23	1:r:640:ARG:O	2.03	0.58
1:w:213:GLN:O	1:w:215:ARG:NH1	2.36	0.58
1:y:213:GLN:O	1:y:215:ARG:NH1	2.36	0.58
1:z:213:GLN:O	1:z:215:ARG:NH1	2.36	0.58
1:6:213:GLN:O	1:6:215:ARG:NH1	2.36	0.58
1:E:213:GLN:O	1:E:215:ARG:NH1	2.36	0.58
1:G:481:TYR:HA	1:I:397:GLN:NE2	2.19	0.58
1:K:239:TRP:HZ3	1:K:242:VAL:O	1.86	0.58
1:L:213:GLN:O	1:L:215:ARG:NH1	2.36	0.58
1:M:505:LYS:HG3	1:M:506:LEU:HD13	1.84	0.58
1:S:290:LEU:HD23	1:S:640:ARG:O	2.03	0.58
1:W:213:GLN:O	1:W:215:ARG:NH1	2.36	0.58
1:X:505:LYS:HG3	1:X:506:LEU:HD13	1.85	0.58
1:b:239:TRP:HZ3	1:b:242:VAL:O	1.86	0.58
1:b:290:LEU:HD23	1:b:640:ARG:O	2.03	0.58
1:c:269:ARG:HH22	1:s:152:ASN:ND2	2.02	0.58
1:g:96:LEU:H	1:g:96:LEU:CD2	2.03	0.58
1:g:505:LYS:HG3	1:g:506:LEU:HD13	1.84	0.58
1:h:505:LYS:HG3	1:h:506:LEU:HD13	1.84	0.58
1:t:481:TYR:HA	1:u:397:GLN:NE2	2.19	0.58
1:u:213:GLN:O	1:u:215:ARG:NH1	2.36	0.58
1:v:290:LEU:HD23	1:v:640:ARG:O	2.03	0.58
1:5:481:TYR:HA	1:6:397:GLN:NE2	2.18	0.58
1:B:481:TYR:HA	1:J:397:GLN:NE2	2.18	0.58
1:C:505:LYS:HG3	1:C:506:LEU:HD13	1.84	0.58
1:C:600:THR:HG21	1:b:188:ILE:HG23	1.84	0.58
1:I:213:GLN:O	1:I:215:ARG:NH1	2.36	0.58
1:K:269:ARG:HH22	1:7:152:ASN:ND2	2.02	0.58
1:K:511:GLN:HB2	1:K:512:PRO:HD2	1.86	0.58
1:P:213:GLN:O	1:P:215:ARG:NH1	2.36	0.58
1:Q:213:GLN:O	1:Q:215:ARG:NH1	2.36	0.58
1:S:511:GLN:HB2	1:S:512:PRO:HD2	1.86	0.58
1:U:152:ASN:ND2	1:e:269:ARG:HH22	2.02	0.58
1:V:188:ILE:HG23	1:X:600:THR:HG21	1.86	0.58
1:Y:213:GLN:O	1:Y:215:ARG:NH1	2.36	0.58
1:f:188:ILE:HG23	1:g:600:THR:HG21	1.84	0.58
1:f:239:TRP:HZ3	1:f:242:VAL:O	1.86	0.58
1:r:511:GLN:HB2	1:r:512:PRO:HD2	1.86	0.58
1:t:397:GLN:NE2	1:v:481:TYR:HA	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:511:GLN:HB2	1:v:512:PRO:HD2	1.86	0.58
1:w:397:GLN:NE2	1:y:481:TYR:HA	2.19	0.58
1:z:397:GLN:NE2	1:2:481:TYR:HA	2.18	0.58
1:z:505:LYS:HG3	1:z:506:LEU:HD13	1.84	0.58
1:4:239:TRP:HZ3	1:4:242:VAL:O	1.86	0.58
1:4:511:GLN:HB2	1:4:512:PRO:HD2	1.86	0.58
1:5:239:TRP:HZ3	1:5:242:VAL:O	1.86	0.58
1:A:290:LEU:HD23	1:A:640:ARG:O	2.03	0.58
1:A:511:GLN:HB2	1:A:512:PRO:HD2	1.86	0.58
1:G:511:GLN:HB2	1:G:512:PRO:HD2	1.86	0.58
1:H:481:TYR:HA	1:W:397:GLN:NE2	2.18	0.58
1:J:481:TYR:HA	1:L:397:GLN:NE2	2.18	0.58
1:L:505:LYS:HG3	1:L:506:LEU:HD13	1.84	0.58
1:M:269:ARG:HH22	1:c:152:ASN:ND2	2.02	0.58
1:Q:152:ASN:ND2	1:S:269:ARG:HH22	2.02	0.58
1:U:511:GLN:HB2	1:U:512:PRO:HD2	1.86	0.58
1:V:269:ARG:HH22	1:W:152:ASN:ND2	2.02	0.58
1:V:511:GLN:HB2	1:V:512:PRO:HD2	1.86	0.58
1:Y:152:ASN:ND2	1:4:269:ARG:HH22	2.02	0.58
1:e:152:ASN:ND2	1:h:269:ARG:HH22	2.02	0.58
1:f:290:LEU:HD23	1:f:640:ARG:O	2.03	0.58
1:f:505:LYS:HG3	1:f:506:LEU:HD13	1.85	0.58
1:f:511:GLN:HB2	1:f:512:PRO:HD2	1.86	0.58
1:h:239:TRP:HZ3	1:h:242:VAL:O	1.86	0.58
1:n:213:GLN:O	1:n:215:ARG:NH1	2.36	0.58
1:t:511:GLN:HB2	1:t:512:PRO:HD2	1.86	0.58
1:v:269:ARG:HH22	1:1:152:ASN:ND2	2.02	0.58
1:x:505:LYS:HG3	1:x:506:LEU:HD13	1.84	0.58
1:5:511:GLN:HB2	1:5:512:PRO:HD2	1.86	0.58
1:7:213:GLN:O	1:7:215:ARG:NH1	2.36	0.58
1:7:239:TRP:CZ3	1:7:242:VAL:O	2.57	0.58
1:A:481:TYR:HA	1:G:397:GLN:NE2	2.19	0.58
1:B:239:TRP:CZ3	1:B:242:VAL:O	2.57	0.58
1:C:239:TRP:HZ3	1:C:242:VAL:O	1.86	0.58
1:E:397:GLN:NE2	1:F:481:TYR:HA	2.19	0.58
1:G:235:GLU:O	1:G:236:THR:HG22	2.04	0.58
1:G:239:TRP:CZ3	1:G:242:VAL:O	2.57	0.58
1:H:235:GLU:O	1:H:236:THR:HG22	2.04	0.58
1:H:397:GLN:NE2	1:Y:481:TYR:HA	2.18	0.58
1:K:239:TRP:CZ3	1:K:242:VAL:O	2.57	0.58
1:Q:239:TRP:CZ3	1:Q:242:VAL:O	2.57	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:239:TRP:CZ3	1:R:242:VAL:O	2.57	0.58
1:W:239:TRP:CZ3	1:W:242:VAL:O	2.57	0.58
1:Y:239:TRP:CZ3	1:Y:242:VAL:O	2.57	0.58
1:b:511:GLN:HB2	1:b:512:PRO:HD2	1.86	0.58
1:c:213:GLN:O	1:c:215:ARG:NH1	2.36	0.58
1:c:600:THR:HG21	1:o:188:ILE:HG23	1.84	0.58
1:g:239:TRP:HZ3	1:g:242:VAL:O	1.86	0.58
1:j:213:GLN:O	1:j:215:ARG:NH1	2.36	0.58
1:p:269:ARG:HH22	1:6:152:ASN:ND2	2.02	0.58
1:p:511:GLN:HB2	1:p:512:PRO:HD2	1.86	0.58
1:q:239:TRP:CZ3	1:q:242:VAL:O	2.57	0.58
1:r:269:ARG:HH22	1:x:152:ASN:ND2	2.02	0.58
1:s:511:GLN:HB2	1:s:512:PRO:HD2	1.86	0.58
1:t:235:GLU:O	1:t:236:THR:HG22	2.04	0.58
1:t:239:TRP:CZ3	1:t:242:VAL:O	2.57	0.58
1:x:213:GLN:O	1:x:215:ARG:NH1	2.36	0.58
1:x:239:TRP:CZ3	1:x:242:VAL:O	2.57	0.58
1:y:239:TRP:CZ3	1:y:242:VAL:O	2.57	0.58
1:1:239:TRP:CZ3	1:1:242:VAL:O	2.57	0.58
1:1:481:TYR:HA	1:2:397:GLN:NE2	2.18	0.58
1:3:511:GLN:HB2	1:3:512:PRO:HD2	1.86	0.58
1:4:239:TRP:CZ3	1:4:242:VAL:O	2.57	0.58
1:B:235:GLU:O	1:B:236:THR:HG22	2.04	0.57
1:C:269:ARG:HH22	1:D:152:ASN:ND2	2.02	0.57
1:D:213:GLN:O	1:D:215:ARG:NH1	2.36	0.57
1:F:239:TRP:CZ3	1:F:242:VAL:O	2.57	0.57
1:I:152:ASN:ND2	1:J:269:ARG:HH22	2.02	0.57
1:I:235:GLU:O	1:I:236:THR:HG22	2.04	0.57
1:M:239:TRP:HZ3	1:M:242:VAL:O	1.86	0.57
1:N:518:ASN:OD1	1:N:519:VAL:N	2.37	0.57
1:Q:505:LYS:HG3	1:Q:506:LEU:HD13	1.84	0.57
1:T:239:TRP:HZ3	1:T:242:VAL:O	1.86	0.57
1:V:213:GLN:O	1:V:215:ARG:NH1	2.36	0.57
1:V:505:LYS:HG3	1:V:506:LEU:HD13	1.85	0.57
1:a:313:LYS:NZ	1:3:619:ASP:OD2	2.37	0.57
1:a:511:GLN:HB2	1:a:512:PRO:HD2	1.86	0.57
1:c:518:ASN:OD1	1:c:519:VAL:N	2.37	0.57
1:d:213:GLN:O	1:d:215:ARG:NH1	2.36	0.57
1:d:518:ASN:OD1	1:d:519:VAL:N	2.37	0.57
1:e:213:GLN:O	1:e:215:ARG:NH1	2.36	0.57
1:e:518:ASN:OD1	1:e:519:VAL:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:239:TRP:CZ3	1:f:242:VAL:O	2.57	0.57
1:f:269:ARG:HH22	1:z:152:ASN:ND2	2.02	0.57
1:g:269:ARG:HH22	1:k:152:ASN:ND2	2.02	0.57
1:i:518:ASN:OD1	1:i:519:VAL:N	2.37	0.57
1:k:213:GLN:O	1:k:215:ARG:NH1	2.36	0.57
1:n:239:TRP:HZ3	1:n:242:VAL:O	1.86	0.57
1:p:505:LYS:HG3	1:p:506:LEU:HD13	1.84	0.57
1:q:505:LYS:HG3	1:q:506:LEU:HD13	1.84	0.57
1:s:213:GLN:O	1:s:215:ARG:NH1	2.36	0.57
1:u:152:ASN:ND2	1:2:269:ARG:HH22	2.02	0.57
1:1:235:GLU:O	1:1:236:THR:HG22	2.04	0.57
1:5:235:GLU:O	1:5:236:THR:HG22	2.04	0.57
1:5:397:GLN:NE2	1:7:481:TYR:HA	2.18	0.57
1:6:239:TRP:CZ3	1:6:242:VAL:O	2.57	0.57
1:8:213:GLN:O	1:8:215:ARG:NH1	2.36	0.57
1:A:235:GLU:O	1:A:236:THR:HG22	2.04	0.57
1:A:619:ASP:OD2	1:F:313:LYS:NZ	2.37	0.57
1:D:511:GLN:HB2	1:D:512:PRO:HD2	1.86	0.57
1:H:511:GLN:HB2	1:H:512:PRO:HD2	1.86	0.57
1:L:152:ASN:ND2	1:b:269:ARG:HH22	2.02	0.57
1:M:239:TRP:CZ3	1:M:242:VAL:O	2.57	0.57
1:N:152:ASN:ND2	1:m:269:ARG:HH22	2.02	0.57
1:O:213:GLN:O	1:O:215:ARG:NH1	2.36	0.57
1:Q:235:GLU:O	1:Q:236:THR:HG22	2.04	0.57
1:R:235:GLU:O	1:R:236:THR:HG22	2.04	0.57
1:R:505:LYS:HG3	1:R:506:LEU:HD13	1.84	0.57
1:R:518:ASN:OD1	1:R:519:VAL:N	2.38	0.57
1:S:213:GLN:O	1:S:215:ARG:NH1	2.36	0.57
1:U:213:GLN:O	1:U:215:ARG:NH1	2.36	0.57
1:U:239:TRP:CZ3	1:U:242:VAL:O	2.57	0.57
1:V:239:TRP:CZ3	1:V:242:VAL:O	2.57	0.57
1:Z:239:TRP:CZ3	1:Z:242:VAL:O	2.57	0.57
1:a:518:ASN:OD1	1:a:519:VAL:N	2.37	0.57
1:a:619:ASP:OD2	1:3:313:LYS:NZ	2.37	0.57
1:b:239:TRP:CZ3	1:b:242:VAL:O	2.57	0.57
1:c:235:GLU:O	1:c:236:THR:HG22	2.04	0.57
1:c:239:TRP:HZ3	1:c:242:VAL:O	1.86	0.57
1:e:239:TRP:HZ3	1:e:242:VAL:O	1.86	0.57
1:f:235:GLU:O	1:f:236:THR:HG22	2.04	0.57
1:h:239:TRP:CZ3	1:h:242:VAL:O	2.57	0.57
1:k:239:TRP:HZ3	1:k:242:VAL:O	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:511:GLN:HB2	1:k:512:PRO:HD2	1.86	0.57
1:l:213:GLN:O	1:l:215:ARG:NH1	2.36	0.57
1:n:518:ASN:OD1	1:n:519:VAL:N	2.38	0.57
1:o:481:TYR:HA	1:p:397:GLN:NE2	2.18	0.57
1:p:213:GLN:O	1:p:215:ARG:NH1	2.36	0.57
1:p:239:TRP:CZ3	1:p:242:VAL:O	2.57	0.57
1:q:152:ASN:ND2	1:y:269:ARG:HH22	2.02	0.57
1:q:235:GLU:O	1:q:236:THR:HG22	2.04	0.57
1:q:518:ASN:OD1	1:q:519:VAL:N	2.38	0.57
1:u:235:GLU:O	1:u:236:THR:HG22	2.04	0.57
1:u:269:ARG:HH22	1:5:152:ASN:ND2	2.02	0.57
1:v:152:ASN:ND2	1:w:269:ARG:HH22	2.02	0.57
1:z:235:GLU:O	1:z:236:THR:HG22	2.04	0.57
1:2:90:LYS:NZ	1:2:244:ASP:OD2	2.32	0.57
1:A:152:ASN:ND2	1:E:269:ARG:HH22	2.02	0.57
1:A:213:GLN:O	1:A:215:ARG:NH1	2.36	0.57
1:B:269:ARG:HH22	1:C:152:ASN:ND2	2.02	0.57
1:D:239:TRP:HZ3	1:D:242:VAL:O	1.86	0.57
1:E:619:ASP:OD2	1:P:313:LYS:NZ	2.38	0.57
1:H:152:ASN:ND2	1:I:269:ARG:HH22	2.02	0.57
1:K:235:GLU:O	1:K:236:THR:HG22	2.04	0.57
1:L:235:GLU:O	1:L:236:THR:HG22	2.04	0.57
1:O:239:TRP:HZ3	1:O:242:VAL:O	1.86	0.57
1:Q:619:ASP:OD2	1:R:313:LYS:NZ	2.38	0.57
1:T:239:TRP:CZ3	1:T:242:VAL:O	2.57	0.57
1:T:269:ARG:HH22	1:i:152:ASN:ND2	2.02	0.57
1:X:397:GLN:NE2	1:e:481:TYR:HA	2.18	0.57
1:Z:213:GLN:O	1:Z:215:ARG:NH1	2.36	0.57
1:a:213:GLN:O	1:a:215:ARG:NH1	2.36	0.57
1:b:235:GLU:O	1:b:236:THR:HG22	2.04	0.57
1:d:239:TRP:HZ3	1:d:242:VAL:O	1.86	0.57
1:g:152:ASN:ND2	1:1:269:ARG:HH22	2.02	0.57
1:j:313:LYS:NZ	1:w:619:ASP:OD2	2.38	0.57
1:m:239:TRP:HZ3	1:m:242:VAL:O	1.86	0.57
1:q:313:LYS:NZ	1:x:619:ASP:OD2	2.38	0.57
1:q:511:GLN:HB2	1:q:512:PRO:HD2	1.86	0.57
1:r:213:GLN:O	1:r:215:ARG:NH1	2.36	0.57
1:s:239:TRP:CZ3	1:s:242:VAL:O	2.57	0.57
1:v:235:GLU:O	1:v:236:THR:HG22	2.04	0.57
1:v:313:LYS:NZ	1:y:619:ASP:OD2	2.37	0.57
1:v:619:ASP:OD2	1:y:313:LYS:NZ	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:235:GLU:O	1:x:236:THR:HG22	2.04	0.57
1:x:518:ASN:OD1	1:x:519:VAL:N	2.37	0.57
1:8:239:TRP:CZ3	1:8:242:VAL:O	2.57	0.57
1:F:269:ARG:HH22	1:R:152:ASN:ND2	2.02	0.57
1:G:213:GLN:O	1:G:215:ARG:NH1	2.36	0.57
1:H:213:GLN:O	1:H:215:ARG:NH1	2.36	0.57
1:K:518:ASN:OD1	1:K:519:VAL:N	2.37	0.57
1:Q:511:GLN:HB2	1:Q:512:PRO:HD2	1.86	0.57
1:Q:518:ASN:OD1	1:Q:519:VAL:N	2.37	0.57
1:R:511:GLN:HB2	1:R:512:PRO:HD2	1.86	0.57
1:X:239:TRP:CZ3	1:X:242:VAL:O	2.57	0.57
1:a:235:GLU:O	1:a:236:THR:HG22	2.04	0.57
1:b:152:ASN:ND2	1:o:269:ARG:HH22	2.02	0.57
1:c:481:TYR:HA	1:o:397:GLN:NE2	2.18	0.57
1:e:235:GLU:O	1:e:236:THR:HG22	2.04	0.57
1:e:313:LYS:NZ	1:f:619:ASP:OD2	2.37	0.57
1:e:619:ASP:OD2	1:f:313:LYS:NZ	2.37	0.57
1:f:518:ASN:OD1	1:f:519:VAL:N	2.38	0.57
1:l:518:ASN:OD1	1:l:519:VAL:N	2.37	0.57
1:m:239:TRP:CZ3	1:m:242:VAL:O	2.57	0.57
1:t:213:GLN:O	1:t:215:ARG:NH1	2.36	0.57
1:v:213:GLN:O	1:v:215:ARG:NH1	2.36	0.57
1:3:235:GLU:O	1:3:236:THR:HG22	2.04	0.57
1:3:518:ASN:OD1	1:3:519:VAL:N	2.38	0.57
1:4:235:GLU:O	1:4:236:THR:HG22	2.04	0.57
1:4:518:ASN:OD1	1:4:519:VAL:N	2.38	0.57
1:C:518:ASN:OD1	1:C:519:VAL:N	2.38	0.57
1:C:619:ASP:OD2	1:L:313:LYS:NZ	2.38	0.57
1:J:90:LYS:NZ	1:J:244:ASP:OD2	2.32	0.57
1:O:152:ASN:ND2	1:P:269:ARG:HH22	2.02	0.57
1:P:239:TRP:CZ3	1:P:242:VAL:O	2.57	0.57
1:V:518:ASN:OD1	1:V:519:VAL:N	2.37	0.57
1:b:518:ASN:OD1	1:b:519:VAL:N	2.37	0.57
1:b:619:ASP:OD2	1:c:313:LYS:NZ	2.37	0.57
1:c:505:LYS:HG3	1:c:506:LEU:HD13	1.84	0.57
1:d:239:TRP:CZ3	1:d:242:VAL:O	2.57	0.57
1:g:235:GLU:O	1:g:236:THR:HG22	2.04	0.57
1:g:239:TRP:CZ3	1:g:242:VAL:O	2.57	0.57
1:h:619:ASP:OD2	1:k:313:LYS:NZ	2.38	0.57
1:j:239:TRP:CZ3	1:j:242:VAL:O	2.57	0.57
1:l:239:TRP:HZ3	1:l:242:VAL:O	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:239:TRP:CZ3	1:o:242:VAL:O	2.57	0.57
1:o:518:ASN:OD1	1:o:519:VAL:N	2.37	0.57
1:o:619:ASP:OD2	1:6:313:LYS:NZ	2.38	0.57
1:r:235:GLU:O	1:r:236:THR:HG22	2.04	0.57
1:3:213:GLN:O	1:3:215:ARG:NH1	2.36	0.57
1:5:213:GLN:O	1:5:215:ARG:NH1	2.36	0.57
1:7:239:TRP:HZ3	1:7:242:VAL:O	1.86	0.57
1:C:239:TRP:CZ3	1:C:242:VAL:O	2.57	0.57
1:D:313:LYS:NZ	1:M:619:ASP:OD2	2.38	0.57
1:N:619:ASP:OD2	1:O:313:LYS:NZ	2.38	0.57
1:O:511:GLN:HB2	1:O:512:PRO:HD2	1.85	0.57
1:O:518:ASN:OD1	1:O:519:VAL:N	2.38	0.57
1:S:619:ASP:OD2	1:T:313:LYS:NZ	2.38	0.57
1:X:188:ILE:HG23	1:e:600:THR:HG21	1.85	0.57
1:X:518:ASN:OD1	1:X:519:VAL:N	2.38	0.57
1:b:313:LYS:NZ	1:c:619:ASP:OD2	2.37	0.57
1:e:505:LYS:HG3	1:e:506:LEU:HD13	1.84	0.57
1:g:518:ASN:OD1	1:g:519:VAL:N	2.38	0.57
1:g:619:ASP:OD2	1:z:313:LYS:NZ	2.38	0.57
1:n:239:TRP:CZ3	1:n:242:VAL:O	2.57	0.57
1:p:152:ASN:ND2	1:q:269:ARG:HH22	2.02	0.57
1:p:518:ASN:OD1	1:p:519:VAL:N	2.38	0.57
1:x:511:GLN:HB2	1:x:512:PRO:HD2	1.86	0.57
1:z:239:TRP:CZ3	1:z:242:VAL:O	2.57	0.57
1:C:235:GLU:O	1:C:236:THR:HG22	2.04	0.57
1:J:313:LYS:NZ	1:K:619:ASP:OD2	2.38	0.57
1:L:239:TRP:CZ3	1:L:242:VAL:O	2.57	0.57
1:O:235:GLU:O	1:O:236:THR:HG22	2.04	0.57
1:R:269:ARG:HH22	1:V:152:ASN:ND2	2.02	0.57
1:S:235:GLU:O	1:S:236:THR:HG22	2.04	0.57
1:i:619:ASP:OD2	1:l:313:LYS:NZ	2.38	0.57
1:j:269:ARG:HH22	1:l:152:ASN:ND2	2.03	0.57
1:l:235:GLU:O	1:l:236:THR:HG22	2.04	0.57
1:m:152:ASN:ND2	1:s:269:ARG:HH22	2.02	0.57
1:r:239:TRP:CZ3	1:r:242:VAL:O	2.57	0.57
1:2:518:ASN:OD1	1:2:519:VAL:N	2.38	0.57
1:E:239:TRP:CZ3	1:E:242:VAL:O	2.57	0.57
1:J:235:GLU:O	1:J:236:THR:HG22	2.04	0.57
1:L:518:ASN:OD1	1:L:519:VAL:N	2.38	0.57
1:O:269:ARG:HH22	1:d:152:ASN:ND2	2.02	0.57
1:O:481:TYR:HA	1:m:397:GLN:NE2	2.18	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:239:TRP:CZ3	1:S:242:VAL:O	2.57	0.57
1:T:397:GLN:NE2	1:l:481:TYR:HA	2.18	0.57
1:U:518:ASN:OD1	1:U:519:VAL:N	2.38	0.57
1:V:235:GLU:O	1:V:236:THR:HG22	2.04	0.57
1:V:397:GLN:NE2	1:X:481:TYR:HA	2.19	0.57
1:W:235:GLU:O	1:W:236:THR:HG22	2.04	0.57
1:d:313:LYS:NZ	1:n:619:ASP:OD2	2.37	0.57
1:i:239:TRP:HZ3	1:i:242:VAL:O	1.86	0.57
1:k:239:TRP:CZ3	1:k:242:VAL:O	2.57	0.57
1:l:269:ARG:HH22	1:n:152:ASN:ND2	2.02	0.57
1:l:511:GLN:HB2	1:l:512:PRO:HD2	1.86	0.57
1:m:235:GLU:O	1:m:236:THR:HG22	2.04	0.57
1:m:313:LYS:NZ	1:r:619:ASP:OD2	2.38	0.57
1:n:511:GLN:HB2	1:n:512:PRO:HD2	1.86	0.57
1:o:152:ASN:ND2	1:7:269:ARG:HH22	2.03	0.57
1:o:511:GLN:HB2	1:o:512:PRO:HD2	1.86	0.57
1:u:619:ASP:OD2	1:1:313:LYS:NZ	2.38	0.57
1:v:518:ASN:OD1	1:v:519:VAL:N	2.37	0.57
1:z:518:ASN:OD1	1:z:519:VAL:N	2.38	0.57
1:1:511:GLN:HB2	1:1:512:PRO:HD2	1.86	0.57
1:2:313:LYS:NZ	1:4:619:ASP:OD2	2.38	0.57
1:3:239:TRP:CZ3	1:3:242:VAL:O	2.57	0.57
1:B:313:LYS:NZ	1:I:619:ASP:OD2	2.38	0.57
1:B:511:GLN:HB2	1:B:512:PRO:HD2	1.86	0.57
1:C:96:LEU:CD2	1:C:240:ASP:HB3	2.35	0.57
1:J:518:ASN:OD1	1:J:519:VAL:N	2.38	0.57
1:N:235:GLU:O	1:N:236:THR:HG22	2.04	0.57
1:O:96:LEU:H	1:O:96:LEU:CD2	2.03	0.57
1:P:90:LYS:NZ	1:P:244:ASP:OD2	2.32	0.57
1:P:518:ASN:OD1	1:P:519:VAL:N	2.37	0.57
1:T:152:ASN:ND2	1:U:269:ARG:HH22	2.02	0.57
1:U:313:LYS:NZ	1:V:619:ASP:OD2	2.38	0.57
1:X:511:GLN:HB2	1:X:512:PRO:HD2	1.86	0.57
1:a:239:TRP:CZ3	1:a:242:VAL:O	2.57	0.57
1:d:511:GLN:HB2	1:d:512:PRO:HD2	1.86	0.57
1:g:96:LEU:CD2	1:g:240:ASP:HB3	2.35	0.57
1:r:518:ASN:OD1	1:r:519:VAL:N	2.38	0.57
1:s:518:ASN:OD1	1:s:519:VAL:N	2.38	0.57
1:t:619:ASP:OD2	1:5:313:LYS:NZ	2.38	0.57
1:2:235:GLU:O	1:2:236:THR:HG22	2.04	0.57
1:6:235:GLU:O	1:6:236:THR:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:518:ASN:OD1	1:A:519:VAL:N	2.37	0.57
1:B:96:LEU:CD2	1:B:240:ASP:HB3	2.35	0.57
1:D:518:ASN:OD1	1:D:519:VAL:N	2.37	0.57
1:E:313:LYS:NZ	1:P:619:ASP:OD2	2.38	0.57
1:E:518:ASN:OD1	1:E:519:VAL:N	2.38	0.57
1:G:518:ASN:OD1	1:G:519:VAL:N	2.38	0.57
1:G:619:ASP:OD2	1:H:313:LYS:NZ	2.38	0.57
1:J:619:ASP:OD2	1:K:313:LYS:NZ	2.38	0.57
1:M:152:ASN:ND2	1:N:269:ARG:HH22	2.03	0.57
1:N:239:TRP:HZ3	1:N:242:VAL:O	1.86	0.57
1:U:235:GLU:O	1:U:236:THR:HG22	2.04	0.57
1:W:619:ASP:OD2	1:X:313:LYS:NZ	2.37	0.57
1:Y:90:LYS:NZ	1:Y:244:ASP:OD2	2.32	0.57
1:a:96:LEU:CD2	1:a:240:ASP:HB3	2.35	0.57
1:d:96:LEU:CD2	1:d:240:ASP:HB3	2.35	0.57
1:d:619:ASP:OD2	1:n:313:LYS:NZ	2.37	0.57
1:j:90:LYS:NZ	1:j:244:ASP:OD2	2.32	0.57
1:j:518:ASN:OD1	1:j:519:VAL:N	2.37	0.57
1:j:619:ASP:OD2	1:w:313:LYS:NZ	2.38	0.57
1:k:518:ASN:OD1	1:k:519:VAL:N	2.37	0.57
1:l:96:LEU:H	1:l:96:LEU:CD2	2.03	0.57
1:n:96:LEU:CD2	1:n:240:ASP:HB3	2.35	0.57
1:p:235:GLU:O	1:p:236:THR:HG22	2.04	0.57
1:p:619:ASP:OD2	1:s:313:LYS:NZ	2.38	0.57
1:w:239:TRP:CZ3	1:w:242:VAL:O	2.57	0.57
1:w:518:ASN:OD1	1:w:519:VAL:N	2.38	0.57
1:2:619:ASP:OD2	1:4:313:LYS:NZ	2.38	0.57
1:7:313:LYS:NZ	1:8:619:ASP:OD2	2.38	0.57
1:7:518:ASN:OD1	1:7:519:VAL:N	2.37	0.57
1:8:518:ASN:OD1	1:8:519:VAL:N	2.37	0.57
1:A:269:ARG:HH22	1:B:152:ASN:ND2	2.03	0.56
1:F:235:GLU:O	1:F:236:THR:HG22	2.04	0.56
1:G:96:LEU:CD2	1:G:240:ASP:HB3	2.35	0.56
1:I:302:PRO:HD3	1:I:348:GLU:OE2	2.05	0.56
1:I:518:ASN:OD1	1:I:519:VAL:N	2.37	0.56
1:J:58:VAL:HG21	1:J:138:CYS:SG	2.45	0.56
1:K:152:ASN:ND2	1:L:269:ARG:HH22	2.02	0.56
1:L:58:VAL:HG21	1:L:138:CYS:SG	2.45	0.56
1:M:96:LEU:CD2	1:M:240:ASP:HB3	2.35	0.56
1:P:511:GLN:HB2	1:P:512:PRO:HD2	1.86	0.56
1:S:152:ASN:ND2	1:d:269:ARG:HH22	2.02	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:518:ASN:OD1	1:S:519:VAL:N	2.38	0.56
1:T:235:GLU:O	1:T:236:THR:HG22	2.04	0.56
1:V:302:PRO:HD3	1:V:348:GLU:OE2	2.05	0.56
1:W:302:PRO:HD3	1:W:348:GLU:OE2	2.06	0.56
1:X:235:GLU:O	1:X:236:THR:HG22	2.04	0.56
1:Y:239:TRP:HZ3	1:Y:242:VAL:O	1.86	0.56
1:Y:313:LYS:NZ	1:Z:619:ASP:OD2	2.38	0.56
1:Y:518:ASN:OD1	1:Y:519:VAL:N	2.37	0.56
1:Z:58:VAL:HG21	1:Z:138:CYS:SG	2.45	0.56
1:Z:518:ASN:OD1	1:Z:519:VAL:N	2.37	0.56
1:d:235:GLU:O	1:d:236:THR:HG22	2.04	0.56
1:e:58:VAL:HG21	1:e:138:CYS:SG	2.46	0.56
1:h:96:LEU:CD2	1:h:240:ASP:HB3	2.35	0.56
1:h:152:ASN:ND2	1:i:269:ARG:HH22	2.03	0.56
1:j:235:GLU:O	1:j:236:THR:HG22	2.04	0.56
1:k:269:ARG:HH22	1:w:152:ASN:ND2	2.02	0.56
1:p:302:PRO:HD3	1:p:348:GLU:OE2	2.06	0.56
1:s:235:GLU:O	1:s:236:THR:HG22	2.04	0.56
1:t:96:LEU:CD2	1:t:240:ASP:HB3	2.35	0.56
1:u:302:PRO:HD3	1:u:348:GLU:OE2	2.05	0.56
1:y:235:GLU:O	1:y:236:THR:HG22	2.04	0.56
1:z:58:VAL:HG21	1:z:138:CYS:SG	2.45	0.56
1:1:96:LEU:CD2	1:1:240:ASP:HB3	2.35	0.56
1:2:58:VAL:HG21	1:2:138:CYS:SG	2.45	0.56
1:2:239:TRP:HZ3	1:2:242:VAL:O	1.86	0.56
1:3:96:LEU:CD2	1:3:240:ASP:HB3	2.35	0.56
1:5:518:ASN:OD1	1:5:519:VAL:N	2.37	0.56
1:6:302:PRO:HD3	1:6:348:GLU:OE2	2.06	0.56
1:8:58:VAL:HG21	1:8:138:CYS:SG	2.45	0.56
1:F:518:ASN:OD1	1:F:519:VAL:N	2.37	0.56
1:I:58:VAL:HG21	1:I:138:CYS:SG	2.46	0.56
1:I:239:TRP:CZ3	1:I:242:VAL:O	2.57	0.56
1:L:96:LEU:CD2	1:L:240:ASP:HB3	2.35	0.56
1:P:235:GLU:O	1:P:236:THR:HG22	2.04	0.56
1:S:302:PRO:HD3	1:S:348:GLU:OE2	2.05	0.56
1:W:518:ASN:OD1	1:W:519:VAL:N	2.38	0.56
1:c:58:VAL:HG21	1:c:138:CYS:SG	2.46	0.56
1:d:58:VAL:HG21	1:d:138:CYS:SG	2.46	0.56
1:d:96:LEU:H	1:d:96:LEU:CD2	2.03	0.56
1:i:235:GLU:O	1:i:236:THR:HG22	2.04	0.56
1:i:302:PRO:HD3	1:i:348:GLU:OE2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:235:GLU:O	1:k:236:THR:HG22	2.04	0.56
1:m:100:PHE:O	1:m:225:ARG:NH1	2.38	0.56
1:n:58:VAL:HG21	1:n:138:CYS:SG	2.46	0.56
1:n:235:GLU:O	1:n:236:THR:HG22	2.04	0.56
1:o:235:GLU:O	1:o:236:THR:HG22	2.04	0.56
1:r:302:PRO:HD3	1:r:348:GLU:OE2	2.05	0.56
1:t:58:VAL:HG21	1:t:138:CYS:SG	2.45	0.56
1:t:518:ASN:OD1	1:t:519:VAL:N	2.38	0.56
1:u:58:VAL:HG21	1:u:138:CYS:SG	2.46	0.56
1:u:518:ASN:OD1	1:u:519:VAL:N	2.37	0.56
1:z:96:LEU:CD2	1:z:240:ASP:HB3	2.35	0.56
1:z:269:ARG:HH22	1:4:152:ASN:ND2	2.02	0.56
1:z:302:PRO:HD3	1:z:348:GLU:OE2	2.06	0.56
1:4:58:VAL:HG21	1:4:138:CYS:SG	2.45	0.56
1:6:518:ASN:OD1	1:6:519:VAL:N	2.37	0.56
1:A:58:VAL:HG21	1:A:138:CYS:SG	2.46	0.56
1:A:313:LYS:NZ	1:F:619:ASP:OD2	2.39	0.56
1:B:518:ASN:OD1	1:B:519:VAL:N	2.38	0.56
1:C:313:LYS:NZ	1:L:619:ASP:OD2	2.38	0.56
1:D:58:VAL:HG21	1:D:138:CYS:SG	2.46	0.56
1:D:235:GLU:O	1:D:236:THR:HG22	2.04	0.56
1:D:269:ARG:HH22	1:E:152:ASN:ND2	2.02	0.56
1:F:302:PRO:HD3	1:F:348:GLU:OE2	2.06	0.56
1:G:58:VAL:HG21	1:G:138:CYS:SG	2.45	0.56
1:G:313:LYS:NZ	1:H:619:ASP:OD2	2.38	0.56
1:H:58:VAL:HG21	1:H:138:CYS:SG	2.45	0.56
1:H:60:ILE:HB	1:H:592:LEU:HB2	1.88	0.56
1:H:96:LEU:CD2	1:H:240:ASP:HB3	2.35	0.56
1:H:518:ASN:OD1	1:H:519:VAL:N	2.37	0.56
1:I:60:ILE:HB	1:I:592:LEU:HB2	1.88	0.56
1:I:96:LEU:CD2	1:I:240:ASP:HB3	2.35	0.56
1:J:152:ASN:ND2	1:a:269:ARG:HH22	2.02	0.56
1:J:239:TRP:HZ3	1:J:242:VAL:O	1.86	0.56
1:K:58:VAL:HG21	1:K:138:CYS:SG	2.46	0.56
1:L:302:PRO:HD3	1:L:348:GLU:OE2	2.06	0.56
1:N:302:PRO:HD3	1:N:348:GLU:OE2	2.06	0.56
1:P:152:ASN:ND2	1:Q:269:ARG:HH22	2.02	0.56
1:P:302:PRO:HD3	1:P:348:GLU:OE2	2.06	0.56
1:Q:302:PRO:HD3	1:Q:348:GLU:OE2	2.05	0.56
1:S:58:VAL:HG21	1:S:138:CYS:SG	2.45	0.56
1:T:302:PRO:HD3	1:T:348:GLU:OE2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:518:ASN:OD1	1:T:519:VAL:N	2.37	0.56
1:U:302:PRO:HD3	1:U:348:GLU:OE2	2.06	0.56
1:X:152:ASN:HD22	1:Y:269:ARG:HH22	1.54	0.56
1:X:302:PRO:HD3	1:X:348:GLU:OE2	2.05	0.56
1:Y:619:ASP:OD2	1:Z:313:LYS:NZ	2.38	0.56
1:c:239:TRP:CZ3	1:c:242:VAL:O	2.57	0.56
1:d:60:ILE:HB	1:d:592:LEU:HB2	1.88	0.56
1:e:239:TRP:CZ3	1:e:242:VAL:O	2.57	0.56
1:g:313:LYS:NZ	1:z:619:ASP:OD2	2.38	0.56
1:h:235:GLU:O	1:h:236:THR:HG22	2.04	0.56
1:j:302:PRO:HD3	1:j:348:GLU:OE2	2.06	0.56
1:j:511:GLN:HB2	1:j:512:PRO:HD2	1.86	0.56
1:k:58:VAL:HG21	1:k:138:CYS:SG	2.46	0.56
1:m:302:PRO:HD3	1:m:348:GLU:OE2	2.05	0.56
1:n:60:ILE:HB	1:n:592:LEU:HB2	1.88	0.56
1:n:96:LEU:H	1:n:96:LEU:CD2	2.03	0.56
1:n:269:ARG:HH22	1:r:152:ASN:ND2	2.02	0.56
1:o:58:VAL:HG21	1:o:138:CYS:SG	2.45	0.56
1:o:302:PRO:HD3	1:o:348:GLU:OE2	2.06	0.56
1:s:302:PRO:HD3	1:s:348:GLU:OE2	2.06	0.56
1:t:313:LYS:NZ	1:5:619:ASP:OD2	2.38	0.56
1:u:60:ILE:HB	1:u:592:LEU:HB2	1.88	0.56
1:u:239:TRP:CZ3	1:u:242:VAL:O	2.57	0.56
1:u:511:GLN:HB2	1:u:512:PRO:HD2	1.86	0.56
1:v:58:VAL:HG21	1:v:138:CYS:SG	2.45	0.56
1:x:302:PRO:HD3	1:x:348:GLU:OE2	2.05	0.56
1:y:302:PRO:HD3	1:y:348:GLU:OE2	2.06	0.56
1:y:518:ASN:OD1	1:y:519:VAL:N	2.37	0.56
1:1:518:ASN:OD1	1:1:519:VAL:N	2.38	0.56
1:2:152:ASN:ND2	1:3:269:ARG:HH22	2.02	0.56
1:3:152:ASN:ND2	1:8:269:ARG:HH22	2.02	0.56
1:5:58:VAL:HG21	1:5:138:CYS:SG	2.46	0.56
1:5:60:ILE:HB	1:5:592:LEU:HB2	1.88	0.56
1:5:96:LEU:CD2	1:5:240:ASP:HB3	2.35	0.56
1:6:511:GLN:HB2	1:6:512:PRO:HD2	1.86	0.56
1:7:619:ASP:OD2	1:8:313:LYS:NZ	2.38	0.56
1:8:235:GLU:O	1:8:236:THR:HG22	2.04	0.56
1:A:302:PRO:HD3	1:A:348:GLU:OE2	2.06	0.56
1:C:60:ILE:HB	1:C:592:LEU:HB2	1.88	0.56
1:H:302:PRO:HD3	1:H:348:GLU:OE2	2.06	0.56
1:M:235:GLU:O	1:M:236:THR:HG22	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:58:VAL:HG21	1:Q:138:CYS:SG	2.46	0.56
1:S:313:LYS:NZ	1:T:619:ASP:OD2	2.38	0.56
1:U:619:ASP:OD2	1:V:313:LYS:NZ	2.38	0.56
1:X:58:VAL:HG21	1:X:138:CYS:SG	2.46	0.56
1:Z:235:GLU:O	1:Z:236:THR:HG22	2.04	0.56
1:Z:269:ARG:HH22	1:a:152:ASN:ND2	2.02	0.56
1:g:60:ILE:HB	1:g:592:LEU:HB2	1.88	0.56
1:i:239:TRP:CZ3	1:i:242:VAL:O	2.57	0.56
1:p:313:LYS:NZ	1:s:619:ASP:OD2	2.38	0.56
1:q:58:VAL:HG21	1:q:138:CYS:SG	2.45	0.56
1:r:58:VAL:HG21	1:r:138:CYS:SG	2.45	0.56
1:t:269:ARG:HH22	1:y:152:ASN:ND2	2.02	0.56
1:t:302:PRO:HD3	1:t:348:GLU:OE2	2.06	0.56
1:5:239:TRP:CZ3	1:5:242:VAL:O	2.57	0.56
1:5:302:PRO:HD3	1:5:348:GLU:OE2	2.06	0.56
1:A:239:TRP:CZ3	1:A:242:VAL:O	2.57	0.56
1:E:58:VAL:HG21	1:E:138:CYS:SG	2.45	0.56
1:E:235:GLU:O	1:E:236:THR:HG22	2.04	0.56
1:F:152:ASN:ND2	1:G:269:ARG:HH22	2.02	0.56
1:G:302:PRO:HD3	1:G:348:GLU:OE2	2.06	0.56
1:H:239:TRP:CZ3	1:H:242:VAL:O	2.57	0.56
1:K:302:PRO:HD3	1:K:348:GLU:OE2	2.06	0.56
1:N:313:LYS:NZ	1:O:619:ASP:OD2	2.38	0.56
1:R:96:LEU:CD2	1:R:240:ASP:HB3	2.35	0.56
1:W:511:GLN:HB2	1:W:512:PRO:HD2	1.86	0.56
1:Z:60:ILE:HB	1:Z:592:LEU:HB2	1.88	0.56
1:g:511:GLN:HB2	1:g:512:PRO:HD2	1.86	0.56
1:i:58:VAL:HG21	1:i:138:CYS:SG	2.45	0.56
1:j:96:LEU:CD2	1:j:240:ASP:HB3	2.35	0.56
1:m:518:ASN:OD1	1:m:519:VAL:N	2.38	0.56
1:m:619:ASP:OD2	1:r:313:LYS:NZ	2.38	0.56
1:q:96:LEU:CD2	1:q:240:ASP:HB3	2.35	0.56
1:v:239:TRP:CZ3	1:v:242:VAL:O	2.57	0.56
1:v:302:PRO:HD3	1:v:348:GLU:OE2	2.06	0.56
1:w:58:VAL:HG21	1:w:138:CYS:SG	2.45	0.56
1:x:58:VAL:HG21	1:x:138:CYS:SG	2.46	0.56
1:4:96:LEU:CD2	1:4:240:ASP:HB3	2.35	0.56
1:4:302:PRO:HD3	1:4:348:GLU:OE2	2.06	0.56
1:6:60:ILE:HB	1:6:592:LEU:HB2	1.88	0.56
1:7:235:GLU:O	1:7:236:THR:HG22	2.04	0.56
1:8:60:ILE:HB	1:8:592:LEU:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:58:VAL:HG21	1:B:138:CYS:SG	2.45	0.56
1:E:60:ILE:HB	1:E:592:LEU:HB2	1.88	0.56
1:G:60:ILE:HB	1:G:592:LEU:HB2	1.88	0.56
1:I:511:GLN:HB2	1:I:512:PRO:HD2	1.86	0.56
1:J:60:ILE:HB	1:J:592:LEU:HB2	1.88	0.56
1:J:100:PHE:O	1:J:225:ARG:NH1	2.38	0.56
1:K:60:ILE:HB	1:K:592:LEU:HB2	1.88	0.56
1:K:96:LEU:CD2	1:K:240:ASP:HB3	2.35	0.56
1:N:58:VAL:HG21	1:N:138:CYS:SG	2.45	0.56
1:O:239:TRP:CZ3	1:O:242:VAL:O	2.57	0.56
1:P:58:VAL:HG21	1:P:138:CYS:SG	2.46	0.56
1:P:96:LEU:CD2	1:P:240:ASP:HB3	2.35	0.56
1:R:58:VAL:HG21	1:R:138:CYS:SG	2.45	0.56
1:S:96:LEU:CD2	1:S:240:ASP:HB3	2.35	0.56
1:T:58:VAL:HG21	1:T:138:CYS:SG	2.46	0.56
1:T:614:GLY:HA2	1:T:618:LYS:HB2	1.88	0.56
1:W:60:ILE:HB	1:W:592:LEU:HB2	1.88	0.56
1:Y:235:GLU:O	1:Y:236:THR:HG22	2.04	0.56
1:b:90:LYS:NZ	1:b:244:ASP:OD2	2.32	0.56
1:j:152:ASN:ND2	1:x:269:ARG:HH22	2.02	0.56
1:l:239:TRP:CZ3	1:l:242:VAL:O	2.57	0.56
1:q:302:PRO:HD3	1:q:348:GLU:OE2	2.05	0.56
1:t:60:ILE:HB	1:t:592:LEU:HB2	1.88	0.56
1:w:60:ILE:HB	1:w:592:LEU:HB2	1.88	0.56
1:w:235:GLU:O	1:w:236:THR:HG22	2.04	0.56
1:1:58:VAL:HG21	1:1:138:CYS:SG	2.45	0.56
1:7:60:ILE:HB	1:7:592:LEU:HB2	1.88	0.56
1:B:60:ILE:HB	1:B:592:LEU:HB2	1.88	0.56
1:C:302:PRO:HD3	1:C:348:GLU:OE2	2.06	0.56
1:D:239:TRP:CZ3	1:D:242:VAL:O	2.57	0.56
1:M:518:ASN:OD1	1:M:519:VAL:N	2.37	0.56
1:N:239:TRP:CZ3	1:N:242:VAL:O	2.57	0.56
1:Q:313:LYS:NZ	1:R:619:ASP:OD2	2.38	0.56
1:R:302:PRO:HD3	1:R:348:GLU:OE2	2.05	0.56
1:U:58:VAL:HG21	1:U:138:CYS:SG	2.45	0.56
1:Y:60:ILE:HB	1:Y:592:LEU:HB2	1.88	0.56
1:j:58:VAL:HG21	1:j:138:CYS:SG	2.46	0.56
1:m:58:VAL:HG21	1:m:138:CYS:SG	2.46	0.56
1:m:614:GLY:HA2	1:m:618:LYS:HB2	1.88	0.56
1:q:619:ASP:OD2	1:x:313:LYS:NZ	2.38	0.56
1:r:96:LEU:CD2	1:r:240:ASP:HB3	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:302:PRO:HD3	1:w:348:GLU:OE2	2.06	0.56
1:y:58:VAL:HG21	1:y:138:CYS:SG	2.45	0.56
1:2:60:ILE:HB	1:2:592:LEU:HB2	1.88	0.56
1:4:60:ILE:HB	1:4:592:LEU:HB2	1.88	0.56
1:5:90:LYS:NZ	1:5:244:ASP:OD2	2.32	0.56
1:C:511:GLN:HB2	1:C:512:PRO:HD2	1.86	0.56
1:E:302:PRO:HD3	1:E:348:GLU:OE2	2.06	0.56
1:F:58:VAL:HG21	1:F:138:CYS:SG	2.45	0.56
1:F:614:GLY:HA2	1:F:618:LYS:HB2	1.88	0.56
1:H:90:LYS:NZ	1:H:244:ASP:OD2	2.32	0.56
1:K:614:GLY:HA2	1:K:618:LYS:HB2	1.88	0.56
1:O:614:GLY:HA2	1:O:618:LYS:HB2	1.88	0.56
1:V:58:VAL:HG21	1:V:138:CYS:SG	2.46	0.56
1:X:269:ARG:HH22	1:f:152:ASN:ND2	2.04	0.56
1:b:96:LEU:CD2	1:b:240:ASP:HB3	2.35	0.56
1:g:302:PRO:HD3	1:g:348:GLU:OE2	2.06	0.56
1:h:518:ASN:OD1	1:h:519:VAL:N	2.37	0.56
1:n:614:GLY:HA2	1:n:618:LYS:HB2	1.88	0.56
1:s:58:VAL:HG21	1:s:138:CYS:SG	2.45	0.56
1:x:96:LEU:CD2	1:x:240:ASP:HB3	2.35	0.56
1:1:60:ILE:HB	1:1:592:LEU:HB2	1.88	0.56
1:B:302:PRO:HD3	1:B:348:GLU:OE2	2.05	0.56
1:J:614:GLY:HA2	1:J:618:LYS:HB2	1.88	0.56
1:Q:96:LEU:CD2	1:Q:240:ASP:HB3	2.35	0.56
1:R:60:ILE:HB	1:R:592:LEU:HB2	1.88	0.56
1:Y:58:VAL:HG21	1:Y:138:CYS:SG	2.46	0.56
1:Z:96:LEU:CD2	1:Z:240:ASP:HB3	2.35	0.56
1:a:58:VAL:HG21	1:a:138:CYS:SG	2.46	0.56
1:i:313:LYS:NZ	1:l:619:ASP:OD2	2.38	0.56
1:m:96:LEU:CD2	1:m:240:ASP:HB3	2.35	0.56
1:r:60:ILE:HB	1:r:592:LEU:HB2	1.88	0.56
1:y:614:GLY:HA2	1:y:618:LYS:HB2	1.88	0.56
1:1:302:PRO:HD3	1:1:348:GLU:OE2	2.05	0.56
1:2:614:GLY:HA2	1:2:618:LYS:HB2	1.88	0.56
1:4:614:GLY:HA2	1:4:618:LYS:HB2	1.88	0.56
1:7:58:VAL:HG21	1:7:138:CYS:SG	2.45	0.56
1:D:342:ARG:NH2	1:D:345:LYS:O	2.39	0.56
1:J:239:TRP:CZ3	1:J:242:VAL:O	2.57	0.56
1:J:302:PRO:HD3	1:J:348:GLU:OE2	2.05	0.56
1:S:60:ILE:HB	1:S:592:LEU:HB2	1.88	0.56
1:b:58:VAL:HG21	1:b:138:CYS:SG	2.46	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:302:PRO:HD3	1:b:348:GLU:OE2	2.06	0.56
1:d:614:GLY:HA2	1:d:618:LYS:HB2	1.88	0.56
1:f:58:VAL:HG21	1:f:138:CYS:SG	2.45	0.56
1:f:96:LEU:CD2	1:f:240:ASP:HB3	2.35	0.56
1:k:342:ARG:NH2	1:k:345:LYS:O	2.39	0.56
1:l:302:PRO:HD3	1:l:348:GLU:OE2	2.06	0.56
1:l:614:GLY:HA2	1:l:618:LYS:HB2	1.88	0.56
1:q:60:ILE:HB	1:q:592:LEU:HB2	1.88	0.56
1:s:96:LEU:CD2	1:s:240:ASP:HB3	2.35	0.56
1:1:614:GLY:HA2	1:1:618:LYS:HB2	1.88	0.56
1:2:239:TRP:CZ3	1:2:242:VAL:O	2.57	0.56
1:3:58:VAL:HG21	1:3:138:CYS:SG	2.46	0.56
1:8:96:LEU:CD2	1:8:240:ASP:HB3	2.35	0.56
1:B:614:GLY:HA2	1:B:618:LYS:HB2	1.88	0.55
1:B:619:ASP:OD2	1:I:313:LYS:NZ	2.38	0.55
1:E:96:LEU:CD2	1:E:240:ASP:HB3	2.35	0.55
1:H:342:ARG:NH2	1:H:345:LYS:O	2.39	0.55
1:M:58:VAL:HG21	1:M:138:CYS:SG	2.45	0.55
1:N:96:LEU:CD2	1:N:240:ASP:HB3	2.35	0.55
1:N:342:ARG:NH2	1:N:345:LYS:O	2.39	0.55
1:O:58:VAL:HG21	1:O:138:CYS:SG	2.45	0.55
1:O:96:LEU:CD2	1:O:240:ASP:HB3	2.35	0.55
1:O:302:PRO:HD3	1:O:348:GLU:OE2	2.06	0.55
1:Q:342:ARG:NH2	1:Q:345:LYS:O	2.40	0.55
1:T:96:LEU:CD2	1:T:240:ASP:HB3	2.35	0.55
1:Y:614:GLY:HA2	1:Y:618:LYS:HB2	1.88	0.55
1:b:60:ILE:HB	1:b:592:LEU:HB2	1.88	0.55
1:f:60:ILE:HB	1:f:592:LEU:HB2	1.88	0.55
1:f:302:PRO:HD3	1:f:348:GLU:OE2	2.06	0.55
1:i:96:LEU:CD2	1:i:240:ASP:HB3	2.35	0.55
1:i:342:ARG:NH2	1:i:345:LYS:O	2.39	0.55
1:l:58:VAL:HG21	1:l:138:CYS:SG	2.45	0.55
1:l:96:LEU:CD2	1:l:240:ASP:HB3	2.35	0.55
1:p:58:VAL:HG21	1:p:138:CYS:SG	2.46	0.55
1:p:342:ARG:NH2	1:p:345:LYS:O	2.39	0.55
1:v:96:LEU:CD2	1:v:240:ASP:HB3	2.35	0.55
1:w:96:LEU:CD2	1:w:240:ASP:HB3	2.35	0.55
1:w:342:ARG:NH2	1:w:345:LYS:O	2.40	0.55
1:x:342:ARG:NH2	1:x:345:LYS:O	2.40	0.55
1:2:302:PRO:HD3	1:2:348:GLU:OE2	2.05	0.55
1:5:342:ARG:NH2	1:5:345:LYS:O	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:614:GLY:HA2	1:7:618:LYS:HB2	1.88	0.55
1:A:96:LEU:CD2	1:A:240:ASP:HB3	2.35	0.55
1:E:342:ARG:NH2	1:E:345:LYS:O	2.40	0.55
1:G:152:ASN:ND2	1:W:269:ARG:HH22	2.02	0.55
1:G:614:GLY:HA2	1:G:618:LYS:HB2	1.88	0.55
1:H:614:GLY:HA2	1:H:618:LYS:HB2	1.88	0.55
1:L:614:GLY:HA2	1:L:618:LYS:HB2	1.88	0.55
1:U:96:LEU:CD2	1:U:240:ASP:HB3	2.35	0.55
1:c:96:LEU:CD2	1:c:240:ASP:HB3	2.35	0.55
1:d:342:ARG:NH2	1:d:345:LYS:O	2.39	0.55
1:h:58:VAL:HG21	1:h:138:CYS:SG	2.45	0.55
1:h:302:PRO:HD3	1:h:348:GLU:OE2	2.06	0.55
1:h:313:LYS:NZ	1:k:619:ASP:OD2	2.38	0.55
1:k:302:PRO:HD3	1:k:348:GLU:OE2	2.06	0.55
1:l:60:ILE:HB	1:l:592:LEU:HB2	1.88	0.55
1:m:342:ARG:NH2	1:m:345:LYS:O	2.39	0.55
1:n:302:PRO:HD3	1:n:348:GLU:OE2	2.05	0.55
1:o:96:LEU:CD2	1:o:240:ASP:HB3	2.35	0.55
1:o:313:LYS:NZ	1:6:619:ASP:OD2	2.38	0.55
1:t:152:ASN:ND2	1:6:269:ARG:HH22	2.02	0.55
1:u:313:LYS:NZ	1:1:619:ASP:OD2	2.38	0.55
1:z:614:GLY:HA2	1:z:618:LYS:HB2	1.88	0.55
1:3:302:PRO:HD3	1:3:348:GLU:OE2	2.06	0.55
1:7:96:LEU:CD2	1:7:240:ASP:HB3	2.35	0.55
1:A:342:ARG:NH2	1:A:345:LYS:O	2.39	0.55
1:D:302:PRO:HD3	1:D:348:GLU:OE2	2.06	0.55
1:H:269:ARG:HH22	1:Z:152:ASN:ND2	2.03	0.55
1:M:342:ARG:NH2	1:M:345:LYS:O	2.40	0.55
1:O:60:ILE:HB	1:O:592:LEU:HB2	1.88	0.55
1:Q:614:GLY:HA2	1:Q:618:LYS:HB2	1.88	0.55
1:R:342:ARG:NH2	1:R:345:LYS:O	2.39	0.55
1:T:342:ARG:NH2	1:T:345:LYS:O	2.39	0.55
1:V:342:ARG:NH2	1:V:345:LYS:O	2.40	0.55
1:W:58:VAL:HG21	1:W:138:CYS:SG	2.45	0.55
1:X:96:LEU:CD2	1:X:240:ASP:HB3	2.35	0.55
1:a:342:ARG:NH2	1:a:345:LYS:O	2.39	0.55
1:d:302:PRO:HD3	1:d:348:GLU:OE2	2.06	0.55
1:g:58:VAL:HG21	1:g:138:CYS:SG	2.46	0.55
1:h:342:ARG:NH2	1:h:345:LYS:O	2.40	0.55
1:n:342:ARG:NH2	1:n:345:LYS:O	2.39	0.55
1:p:60:ILE:HB	1:p:592:LEU:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:342:ARG:NH2	1:q:345:LYS:O	2.39	0.55
1:t:614:GLY:HA2	1:t:618:LYS:HB2	1.88	0.55
1:v:60:ILE:HB	1:v:592:LEU:HB2	1.88	0.55
1:v:342:ARG:NH2	1:v:345:LYS:O	2.40	0.55
1:x:614:GLY:HA2	1:x:618:LYS:HB2	1.88	0.55
1:5:614:GLY:HA2	1:5:618:LYS:HB2	1.88	0.55
1:7:302:PRO:HD3	1:7:348:GLU:OE2	2.06	0.55
1:C:58:VAL:HG21	1:C:138:CYS:SG	2.46	0.55
1:C:614:GLY:HA2	1:C:618:LYS:HB2	1.88	0.55
1:D:96:LEU:CD2	1:D:240:ASP:HB3	2.35	0.55
1:D:619:ASP:OD2	1:M:313:LYS:NZ	2.38	0.55
1:K:342:ARG:NH2	1:K:345:LYS:O	2.39	0.55
1:M:302:PRO:HD3	1:M:348:GLU:OE2	2.06	0.55
1:W:614:GLY:HA2	1:W:618:LYS:HB2	1.88	0.55
1:X:614:GLY:HA2	1:X:618:LYS:HB2	1.88	0.55
1:Y:96:LEU:CD2	1:Y:240:ASP:HB3	2.35	0.55
1:Z:302:PRO:HD3	1:Z:348:GLU:OE2	2.06	0.55
1:Z:342:ARG:NH2	1:Z:345:LYS:O	2.39	0.55
1:b:614:GLY:HA2	1:b:618:LYS:HB2	1.88	0.55
1:e:96:LEU:CD2	1:e:240:ASP:HB3	2.35	0.55
1:o:614:GLY:HA2	1:o:618:LYS:HB2	1.88	0.55
1:3:60:ILE:HB	1:3:592:LEU:HB2	1.88	0.55
1:3:342:ARG:NH2	1:3:345:LYS:O	2.40	0.55
1:6:58:VAL:HG21	1:6:138:CYS:SG	2.46	0.55
1:7:342:ARG:NH2	1:7:345:LYS:O	2.39	0.55
1:8:614:GLY:HA2	1:8:618:LYS:HB2	1.88	0.55
1:A:60:ILE:HB	1:A:592:LEU:HB2	1.88	0.55
1:C:342:ARG:NH2	1:C:345:LYS:O	2.39	0.55
1:V:60:ILE:HB	1:V:592:LEU:HB2	1.88	0.55
1:X:96:LEU:H	1:X:96:LEU:CD2	2.03	0.55
1:Y:302:PRO:HD3	1:Y:348:GLU:OE2	2.06	0.55
1:Z:614:GLY:HA2	1:Z:618:LYS:HB2	1.88	0.55
1:a:60:ILE:HB	1:a:592:LEU:HB2	1.88	0.55
1:a:302:PRO:HD3	1:a:348:GLU:OE2	2.06	0.55
1:f:269:ARG:HH22	1:z:152:ASN:HD22	1.55	0.55
1:f:614:GLY:HA2	1:f:618:LYS:HB2	1.88	0.55
1:g:342:ARG:NH2	1:g:345:LYS:O	2.39	0.55
1:g:614:GLY:HA2	1:g:618:LYS:HB2	1.88	0.55
1:j:60:ILE:HB	1:j:592:LEU:HB2	1.88	0.55
1:k:96:LEU:CD2	1:k:240:ASP:HB3	2.35	0.55
1:2:96:LEU:CD2	1:2:240:ASP:HB3	2.35	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:342:ARG:NH2	1:4:345:LYS:O	2.39	0.55
1:8:342:ARG:NH2	1:8:345:LYS:O	2.40	0.55
1:J:96:LEU:CD2	1:J:240:ASP:HB3	2.35	0.55
1:L:152:ASN:HD22	1:b:269:ARG:HH22	1.55	0.55
1:M:100:PHE:O	1:M:225:ARG:NH1	2.38	0.55
1:P:60:ILE:HB	1:P:592:LEU:HB2	1.88	0.55
1:Y:342:ARG:NH2	1:Y:345:LYS:O	2.40	0.55
1:o:96:LEU:H	1:o:96:LEU:CD2	2.03	0.55
1:y:60:ILE:HB	1:y:592:LEU:HB2	1.88	0.55
1:5:269:ARG:HH22	1:8:152:ASN:ND2	2.03	0.55
1:6:614:GLY:HA2	1:6:618:LYS:HB2	1.88	0.55
1:8:302:PRO:HD3	1:8:348:GLU:OE2	2.06	0.55
1:F:60:ILE:HB	1:F:592:LEU:HB2	1.88	0.55
1:F:342:ARG:NH2	1:F:345:LYS:O	2.40	0.55
1:J:342:ARG:NH2	1:J:345:LYS:O	2.40	0.55
1:N:614:GLY:HA2	1:N:618:LYS:HB2	1.88	0.55
1:P:342:ARG:NH2	1:P:345:LYS:O	2.39	0.55
1:R:614:GLY:HA2	1:R:618:LYS:HB2	1.88	0.55
1:S:342:ARG:NH2	1:S:345:LYS:O	2.40	0.55
1:U:342:ARG:NH2	1:U:345:LYS:O	2.39	0.55
1:c:302:PRO:HD3	1:c:348:GLU:OE2	2.06	0.55
1:d:367:PRO:HG2	1:d:374:TYR:CZ	2.42	0.55
1:e:302:PRO:HD3	1:e:348:GLU:OE2	2.06	0.55
1:f:342:ARG:NH2	1:f:345:LYS:O	2.40	0.55
1:h:100:PHE:O	1:h:225:ARG:NH1	2.38	0.55
1:i:614:GLY:HA2	1:i:618:LYS:HB2	1.88	0.55
1:k:60:ILE:HB	1:k:592:LEU:HB2	1.88	0.55
1:n:367:PRO:HG2	1:n:374:TYR:CZ	2.42	0.55
1:o:60:ILE:HB	1:o:592:LEU:HB2	1.88	0.55
1:q:614:GLY:HA2	1:q:618:LYS:HB2	1.88	0.55
1:r:342:ARG:NH2	1:r:345:LYS:O	2.40	0.55
1:z:60:ILE:HB	1:z:592:LEU:HB2	1.88	0.55
1:2:342:ARG:NH2	1:2:345:LYS:O	2.39	0.55
1:6:367:PRO:HG2	1:6:374:TYR:CZ	2.42	0.55
1:B:367:PRO:HG2	1:B:374:TYR:CZ	2.42	0.55
1:C:269:ARG:HH22	1:D:152:ASN:HD22	1.55	0.55
1:D:60:ILE:HB	1:D:592:LEU:HB2	1.88	0.55
1:J:367:PRO:HG2	1:J:374:TYR:CZ	2.42	0.55
1:M:269:ARG:HH22	1:c:152:ASN:HD22	1.55	0.55
1:Q:60:ILE:HB	1:Q:592:LEU:HB2	1.88	0.55
1:Q:152:ASN:HD22	1:S:269:ARG:HH22	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:367:PRO:HG2	1:T:374:TYR:CZ	2.42	0.55
1:W:367:PRO:HG2	1:W:374:TYR:CZ	2.42	0.55
1:Z:269:ARG:HH22	1:a:152:ASN:HD22	1.55	0.55
1:b:342:ARG:NH2	1:b:345:LYS:O	2.40	0.55
1:e:152:ASN:HD22	1:h:269:ARG:HH22	1.55	0.55
1:g:269:ARG:HH22	1:k:152:ASN:HD22	1.55	0.55
1:j:342:ARG:NH2	1:j:345:LYS:O	2.39	0.55
1:l:342:ARG:NH2	1:l:345:LYS:O	2.40	0.55
1:m:367:PRO:HG2	1:m:374:TYR:CZ	2.42	0.55
1:o:342:ARG:NH2	1:o:345:LYS:O	2.40	0.55
1:p:96:LEU:CD2	1:p:240:ASP:HB3	2.35	0.55
1:p:269:ARG:HH22	1:6:152:ASN:HD22	1.55	0.55
1:s:342:ARG:NH2	1:s:345:LYS:O	2.39	0.55
1:1:367:PRO:HG2	1:1:374:TYR:CZ	2.42	0.55
1:A:614:GLY:HA2	1:A:618:LYS:HB2	1.88	0.55
1:B:342:ARG:NH2	1:B:345:LYS:O	2.39	0.55
1:D:367:PRO:HG2	1:D:374:TYR:CZ	2.42	0.55
1:E:614:GLY:HA2	1:E:618:LYS:HB2	1.88	0.55
1:H:100:PHE:O	1:H:225:ARG:NH1	2.38	0.55
1:L:60:ILE:HB	1:L:592:LEU:HB2	1.88	0.55
1:L:342:ARG:NH2	1:L:345:LYS:O	2.39	0.55
1:N:152:ASN:HD22	1:m:269:ARG:HH22	1.55	0.55
1:O:342:ARG:NH2	1:O:345:LYS:O	2.40	0.55
1:T:269:ARG:HH22	1:i:152:ASN:HD22	1.55	0.55
1:V:269:ARG:HH22	1:W:152:ASN:HD22	1.55	0.55
1:X:342:ARG:NH2	1:X:345:LYS:O	2.40	0.55
1:b:152:ASN:HD22	1:o:269:ARG:HH22	1.55	0.55
1:c:60:ILE:HB	1:c:592:LEU:HB2	1.88	0.55
1:c:342:ARG:NH2	1:c:345:LYS:O	2.40	0.55
1:e:60:ILE:HB	1:e:592:LEU:HB2	1.88	0.55
1:e:342:ARG:NH2	1:e:345:LYS:O	2.39	0.55
1:j:614:GLY:HA2	1:j:618:LYS:HB2	1.88	0.55
1:k:367:PRO:HG2	1:k:374:TYR:CZ	2.42	0.55
1:r:269:ARG:HH22	1:x:152:ASN:HD22	1.55	0.55
1:x:60:ILE:HB	1:x:592:LEU:HB2	1.88	0.55
1:y:342:ARG:NH2	1:y:345:LYS:O	2.40	0.55
1:z:342:ARG:NH2	1:z:345:LYS:O	2.39	0.55
1:2:367:PRO:HG2	1:2:374:TYR:CZ	2.42	0.55
1:3:152:ASN:HD22	1:8:269:ARG:HH22	1.55	0.55
1:3:614:GLY:HA2	1:3:618:LYS:HB2	1.88	0.55
1:D:614:GLY:HA2	1:D:618:LYS:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:367:PRO:HG2	1:F:374:TYR:CZ	2.42	0.55
1:N:60:ILE:HB	1:N:592:LEU:HB2	1.88	0.55
1:P:614:GLY:HA2	1:P:618:LYS:HB2	1.88	0.55
1:T:60:ILE:HB	1:T:592:LEU:HB2	1.88	0.55
1:V:96:LEU:CD2	1:V:240:ASP:HB3	2.35	0.55
1:X:60:ILE:HB	1:X:592:LEU:HB2	1.88	0.55
1:c:614:GLY:HA2	1:c:618:LYS:HB2	1.88	0.55
1:k:614:GLY:HA2	1:k:618:LYS:HB2	1.88	0.55
1:o:152:ASN:HD22	1:7:269:ARG:HH22	1.55	0.55
1:s:367:PRO:HG2	1:s:374:TYR:CZ	2.42	0.55
1:w:614:GLY:HA2	1:w:618:LYS:HB2	1.88	0.55
1:x:116:ILE:HD11	1:x:214:TYR:HA	1.89	0.55
1:y:367:PRO:HG2	1:y:374:TYR:CZ	2.42	0.55
1:1:342:ARG:NH2	1:1:345:LYS:O	2.39	0.55
1:E:367:PRO:HG2	1:E:374:TYR:CZ	2.42	0.54
1:F:269:ARG:HH22	1:R:152:ASN:HD22	1.55	0.54
1:H:367:PRO:HG2	1:H:374:TYR:CZ	2.42	0.54
1:I:367:PRO:HG2	1:I:374:TYR:CZ	2.42	0.54
1:M:614:GLY:HA2	1:M:618:LYS:HB2	1.88	0.54
1:Q:116:ILE:HD11	1:Q:214:TYR:HA	1.89	0.54
1:U:367:PRO:HG2	1:U:374:TYR:CZ	2.42	0.54
1:Y:116:ILE:HD11	1:Y:214:TYR:HA	1.89	0.54
1:b:116:ILE:HD11	1:b:214:TYR:HA	1.90	0.54
1:e:614:GLY:HA2	1:e:618:LYS:HB2	1.88	0.54
1:f:116:ILE:HD11	1:f:214:TYR:HA	1.90	0.54
1:h:614:GLY:HA2	1:h:618:LYS:HB2	1.88	0.54
1:i:60:ILE:HB	1:i:592:LEU:HB2	1.88	0.54
1:m:60:ILE:HB	1:m:592:LEU:HB2	1.88	0.54
1:p:614:GLY:HA2	1:p:618:LYS:HB2	1.88	0.54
1:v:614:GLY:HA2	1:v:618:LYS:HB2	1.88	0.54
1:w:367:PRO:HG2	1:w:374:TYR:CZ	2.42	0.54
1:z:269:ARG:HH22	1:4:152:ASN:HD22	1.55	0.54
1:z:367:PRO:HG2	1:z:374:TYR:CZ	2.42	0.54
1:5:100:PHE:O	1:5:225:ARG:NH1	2.38	0.54
1:5:367:PRO:HG2	1:5:374:TYR:CZ	2.42	0.54
1:6:100:PHE:O	1:6:225:ARG:NH1	2.38	0.54
1:8:100:PHE:O	1:8:225:ARG:NH1	2.38	0.54
1:A:152:ASN:HD22	1:E:269:ARG:HH22	1.55	0.54
1:F:96:LEU:CD2	1:F:240:ASP:HB3	2.35	0.54
1:H:152:ASN:HD22	1:I:269:ARG:HH22	1.55	0.54
1:I:342:ARG:NH2	1:I:345:LYS:O	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:116:ILE:HD11	1:J:214:TYR:HA	1.89	0.54
1:L:367:PRO:HG2	1:L:374:TYR:CZ	2.42	0.54
1:V:614:GLY:HA2	1:V:618:LYS:HB2	1.88	0.54
1:X:116:ILE:HD11	1:X:214:TYR:HA	1.89	0.54
1:X:367:PRO:HG2	1:X:374:TYR:CZ	2.42	0.54
1:Z:100:PHE:O	1:Z:225:ARG:NH1	2.38	0.54
1:a:614:GLY:HA2	1:a:618:LYS:HB2	1.88	0.54
1:c:116:ILE:HD11	1:c:214:TYR:HA	1.90	0.54
1:d:313:LYS:O	1:d:316:SER:OG	2.26	0.54
1:e:116:ILE:HD11	1:e:214:TYR:HA	1.89	0.54
1:k:90:LYS:NZ	1:k:244:ASP:OD2	2.32	0.54
1:q:152:ASN:HD22	1:y:269:ARG:HH22	1.55	0.54
1:u:269:ARG:HH22	1:5:152:ASN:HD22	1.55	0.54
1:v:269:ARG:HH22	1:1:152:ASN:HD22	1.55	0.54
1:2:116:ILE:HD11	1:2:214:TYR:HA	1.89	0.54
1:3:367:PRO:HG2	1:3:374:TYR:CZ	2.42	0.54
1:4:367:PRO:HG2	1:4:374:TYR:CZ	2.42	0.54
1:7:116:ILE:HD11	1:7:214:TYR:HA	1.89	0.54
1:D:90:LYS:NZ	1:D:244:ASP:OD2	2.32	0.54
1:G:116:ILE:HD11	1:G:214:TYR:HA	1.89	0.54
1:K:116:ILE:HD11	1:K:214:TYR:HA	1.90	0.54
1:K:152:ASN:HD22	1:L:269:ARG:HH22	1.55	0.54
1:K:367:PRO:HG2	1:K:374:TYR:CZ	2.42	0.54
1:O:100:PHE:O	1:O:225:ARG:NH1	2.38	0.54
1:O:367:PRO:HG2	1:O:374:TYR:CZ	2.42	0.54
1:P:116:ILE:HD11	1:P:214:TYR:HA	1.89	0.54
1:S:313:LYS:O	1:S:316:SER:OG	2.26	0.54
1:U:614:GLY:HA2	1:U:618:LYS:HB2	1.88	0.54
1:W:100:PHE:O	1:W:225:ARG:NH1	2.38	0.54
1:Z:313:LYS:O	1:Z:316:SER:OG	2.26	0.54
1:a:367:PRO:HG2	1:a:374:TYR:CZ	2.42	0.54
1:c:100:PHE:O	1:c:225:ARG:NH1	2.38	0.54
1:e:100:PHE:O	1:e:225:ARG:NH1	2.38	0.54
1:j:116:ILE:HD11	1:j:214:TYR:HA	1.89	0.54
1:l:116:ILE:HD11	1:l:214:TYR:HA	1.89	0.54
1:o:116:ILE:HD11	1:o:214:TYR:HA	1.89	0.54
1:o:367:PRO:HG2	1:o:374:TYR:CZ	2.42	0.54
1:u:90:LYS:NZ	1:u:244:ASP:OD2	2.32	0.54
1:u:342:ARG:NH2	1:u:345:LYS:O	2.40	0.54
1:u:367:PRO:HG2	1:u:374:TYR:CZ	2.42	0.54
1:4:116:ILE:HD11	1:4:214:TYR:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:367:PRO:HG2	1:Y:374:TYR:CZ	2.42	0.54
1:b:367:PRO:HG2	1:b:374:TYR:CZ	2.42	0.54
1:f:367:PRO:HG2	1:f:374:TYR:CZ	2.42	0.54
1:k:100:PHE:O	1:k:225:ARG:NH1	2.38	0.54
1:l:367:PRO:HG2	1:l:374:TYR:CZ	2.42	0.54
1:p:313:LYS:O	1:p:316:SER:OG	2.26	0.54
1:p:367:PRO:HG2	1:p:374:TYR:CZ	2.42	0.54
1:s:100:PHE:O	1:s:225:ARG:NH1	2.38	0.54
1:t:116:ILE:HD11	1:t:214:TYR:HA	1.89	0.54
1:t:342:ARG:NH2	1:t:345:LYS:O	2.40	0.54
1:y:96:LEU:CD2	1:y:240:ASP:HB3	2.35	0.54
1:3:116:ILE:HD11	1:3:214:TYR:HA	1.89	0.54
1:6:116:ILE:HD11	1:6:214:TYR:HA	1.89	0.54
1:6:342:ARG:NH2	1:6:345:LYS:O	2.39	0.54
1:D:100:PHE:O	1:D:225:ARG:NH1	2.38	0.54
1:G:342:ARG:NH2	1:G:345:LYS:O	2.40	0.54
1:I:152:ASN:HD22	1:J:269:ARG:HH22	1.55	0.54
1:J:96:LEU:H	1:J:96:LEU:CD2	2.03	0.54
1:O:116:ILE:HD11	1:O:214:TYR:HA	1.89	0.54
1:V:313:LYS:O	1:V:316:SER:OG	2.26	0.54
1:W:116:ILE:HD11	1:W:214:TYR:HA	1.89	0.54
1:X:533:PRO:HD3	1:e:355:TYR:CE2	2.43	0.54
1:Y:52:LYS:HE3	1:Y:54:ILE:HD11	1.90	0.54
1:h:367:PRO:HG2	1:h:374:TYR:CZ	2.42	0.54
1:s:614:GLY:HA2	1:s:618:LYS:HB2	1.88	0.54
1:u:96:LEU:CD2	1:u:240:ASP:HB3	2.35	0.54
1:v:152:ASN:HD22	1:w:269:ARG:HH22	1.55	0.54
1:1:116:ILE:HD11	1:1:214:TYR:HA	1.89	0.54
1:8:367:PRO:HG2	1:8:374:TYR:CZ	2.42	0.54
1:D:269:ARG:HH22	1:E:152:ASN:HD22	1.55	0.54
1:K:269:ARG:HH22	1:7:152:ASN:HD22	1.55	0.54
1:M:367:PRO:HG2	1:M:374:TYR:CZ	2.42	0.54
1:N:367:PRO:HG2	1:N:374:TYR:CZ	2.42	0.54
1:O:269:ARG:HH22	1:d:152:ASN:HD22	1.55	0.54
1:S:614:GLY:HA2	1:S:618:LYS:HB2	1.88	0.54
1:U:60:ILE:HB	1:U:592:LEU:HB2	1.88	0.54
1:U:100:PHE:O	1:U:225:ARG:NH1	2.38	0.54
1:V:367:PRO:HG2	1:V:374:TYR:CZ	2.42	0.54
1:W:342:ARG:NH2	1:W:345:LYS:O	2.40	0.54
1:a:116:ILE:HD11	1:a:214:TYR:HA	1.90	0.54
1:s:60:ILE:HB	1:s:592:LEU:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:152:ASN:HD22	1:2:269:ARG:HH22	1.55	0.54
1:5:364:TRP:HB2	1:7:479:LEU:O	2.08	0.54
1:7:52:LYS:HE3	1:7:54:ILE:HD11	1.90	0.54
1:7:367:PRO:HG2	1:7:374:TYR:CZ	2.42	0.54
1:8:116:ILE:HD11	1:8:214:TYR:HA	1.89	0.54
1:B:116:ILE:HD11	1:B:214:TYR:HA	1.89	0.54
1:C:116:ILE:HD11	1:C:214:TYR:HA	1.89	0.54
1:D:52:LYS:HE3	1:D:54:ILE:HD11	1.90	0.54
1:D:479:LEU:O	1:N:364:TRP:HB2	2.08	0.54
1:H:116:ILE:HD11	1:H:214:TYR:HA	1.89	0.54
1:I:90:LYS:NZ	1:I:244:ASP:OD2	2.32	0.54
1:L:52:LYS:HE3	1:L:54:ILE:HD11	1.90	0.54
1:M:60:ILE:HB	1:M:592:LEU:HB2	1.88	0.54
1:O:364:TRP:HB2	1:n:479:LEU:O	2.08	0.54
1:P:367:PRO:HG2	1:P:374:TYR:CZ	2.42	0.54
1:Q:367:PRO:HG2	1:Q:374:TYR:CZ	2.42	0.54
1:R:269:ARG:HH22	1:V:152:ASN:HD22	1.55	0.54
1:U:52:LYS:HE3	1:U:54:ILE:HD11	1.90	0.54
1:Y:152:ASN:HD22	1:4:269:ARG:HH22	1.55	0.54
1:Z:116:ILE:HD11	1:Z:214:TYR:HA	1.89	0.54
1:Z:367:PRO:HG2	1:Z:374:TYR:CZ	2.42	0.54
1:i:52:LYS:HE3	1:i:54:ILE:HD11	1.90	0.54
1:i:364:TRP:HB2	1:k:479:LEU:O	2.08	0.54
1:j:367:PRO:HG2	1:j:374:TYR:CZ	2.42	0.54
1:l:100:PHE:O	1:l:225:ARG:NH1	2.38	0.54
1:l:269:ARG:HH22	1:n:152:ASN:HD22	1.55	0.54
1:r:614:GLY:HA2	1:r:618:LYS:HB2	1.88	0.54
1:z:52:LYS:HE3	1:z:54:ILE:HD11	1.90	0.54
1:5:116:ILE:HD11	1:5:214:TYR:HA	1.89	0.54
1:A:367:PRO:HG2	1:A:374:TYR:CZ	2.42	0.54
1:C:479:LEU:O	1:b:364:TRP:HB2	2.08	0.54
1:E:364:TRP:HB2	1:F:479:LEU:O	2.08	0.54
1:G:367:PRO:HG2	1:G:374:TYR:CZ	2.42	0.54
1:H:364:TRP:HB2	1:Y:479:LEU:O	2.08	0.54
1:J:479:LEU:O	1:L:364:TRP:HB2	2.08	0.54
1:W:96:LEU:CD2	1:W:240:ASP:HB3	2.35	0.54
1:Y:100:PHE:O	1:Y:225:ARG:NH1	2.38	0.54
1:d:479:LEU:O	1:l:364:TRP:HB2	2.08	0.54
1:f:364:TRP:HB2	1:g:479:LEU:O	2.08	0.54
1:g:116:ILE:HD11	1:g:214:TYR:HA	1.89	0.54
1:h:60:ILE:HB	1:h:592:LEU:HB2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:367:PRO:HG2	1:i:374:TYR:CZ	2.42	0.54
1:k:52:LYS:HE3	1:k:54:ILE:HD11	1.90	0.54
1:k:269:ARG:HH22	1:w:152:ASN:HD22	1.55	0.54
1:p:152:ASN:HD22	1:q:269:ARG:HH22	1.55	0.54
1:r:479:LEU:O	1:s:364:TRP:HB2	2.08	0.54
1:t:367:PRO:HG2	1:t:374:TYR:CZ	2.42	0.54
1:v:367:PRO:HG2	1:v:374:TYR:CZ	2.42	0.54
1:w:364:TRP:HB2	1:y:479:LEU:O	2.08	0.54
1:x:367:PRO:HG2	1:x:374:TYR:CZ	2.42	0.54
1:z:364:TRP:HB2	1:2:479:LEU:O	2.08	0.54
1:B:364:TRP:HB2	1:L:479:LEU:O	2.08	0.54
1:C:364:TRP:HB2	1:M:479:LEU:O	2.08	0.54
1:C:367:PRO:HG2	1:C:374:TYR:CZ	2.42	0.54
1:E:479:LEU:O	1:Q:364:TRP:HB2	2.08	0.54
1:H:479:LEU:O	1:W:364:TRP:HB2	2.08	0.54
1:N:52:LYS:HE3	1:N:54:ILE:HD11	1.90	0.54
1:O:479:LEU:O	1:m:364:TRP:HB2	2.08	0.54
1:S:479:LEU:O	1:U:364:TRP:HB2	2.08	0.54
1:W:479:LEU:O	1:Y:364:TRP:HB2	2.08	0.54
1:g:364:TRP:HB2	1:h:479:LEU:O	2.08	0.54
1:q:100:PHE:O	1:q:225:ARG:NH1	2.38	0.54
1:s:52:LYS:HE3	1:s:54:ILE:HD11	1.90	0.54
1:t:100:PHE:O	1:t:225:ARG:NH1	2.38	0.54
1:5:269:ARG:HH22	1:8:152:ASN:HD22	1.55	0.54
1:5:479:LEU:O	1:6:364:TRP:HB2	2.08	0.54
1:6:479:LEU:O	1:7:364:TRP:HB2	2.08	0.54
1:A:116:ILE:HD11	1:A:214:TYR:HA	1.89	0.54
1:H:269:ARG:HH22	1:Z:152:ASN:HD22	1.55	0.54
1:N:479:LEU:O	1:P:364:TRP:HB2	2.08	0.54
1:T:364:TRP:HB2	1:l:479:LEU:O	2.08	0.54
1:T:479:LEU:O	1:d:364:TRP:HB2	2.08	0.54
1:X:269:ARG:HH22	1:f:152:ASN:HD22	1.56	0.54
1:c:367:PRO:HG2	1:c:374:TYR:CZ	2.42	0.54
1:g:367:PRO:HG2	1:g:374:TYR:CZ	2.42	0.54
1:i:479:LEU:O	1:j:364:TRP:HB2	2.08	0.54
1:m:479:LEU:O	1:n:364:TRP:HB2	2.08	0.54
1:q:367:PRO:HG2	1:q:374:TYR:CZ	2.42	0.54
1:w:479:LEU:O	1:x:364:TRP:HB2	2.08	0.54
1:z:479:LEU:O	1:1:364:TRP:HB2	2.08	0.54
1:2:96:LEU:H	1:2:96:LEU:CD2	2.03	0.54
1:7:100:PHE:O	1:7:225:ARG:NH1	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:52:LYS:HE3	1:B:54:ILE:HD11	1.90	0.53
1:G:100:PHE:O	1:G:225:ARG:NH1	2.38	0.53
1:M:116:ILE:HD11	1:M:214:TYR:HA	1.89	0.53
1:R:367:PRO:HG2	1:R:374:TYR:CZ	2.42	0.53
1:X:52:LYS:HE3	1:X:54:ILE:HD11	1.90	0.53
1:d:52:LYS:HE3	1:d:54:ILE:HD11	1.90	0.53
1:e:367:PRO:HG2	1:e:374:TYR:CZ	2.42	0.53
1:f:479:LEU:O	1:h:364:TRP:HB2	2.08	0.53
1:h:116:ILE:HD11	1:h:214:TYR:HA	1.89	0.53
1:i:100:PHE:O	1:i:225:ARG:NH1	2.38	0.53
1:n:52:LYS:HE3	1:n:54:ILE:HD11	1.90	0.53
1:o:52:LYS:HE3	1:o:54:ILE:HD11	1.90	0.53
1:t:90:LYS:NZ	1:t:244:ASP:OD2	2.32	0.53
1:v:116:ILE:HD11	1:v:214:TYR:HA	1.90	0.53
1:1:52:LYS:HE3	1:1:54:ILE:HD11	1.90	0.53
1:6:96:LEU:CD2	1:6:240:ASP:HB3	2.35	0.53
1:C:292:TYR:O	1:b:219:PRO:HB2	2.09	0.53
1:D:364:TRP:HB2	1:P:479:LEU:O	2.08	0.53
1:F:364:TRP:HB2	1:Q:479:LEU:O	2.08	0.53
1:I:116:ILE:HD11	1:I:214:TYR:HA	1.89	0.53
1:I:614:GLY:HA2	1:I:618:LYS:HB2	1.88	0.53
1:R:100:PHE:O	1:R:225:ARG:NH1	2.38	0.53
1:S:367:PRO:HG2	1:S:374:TYR:CZ	2.42	0.53
1:U:629:LYS:HB3	1:e:573:GLU:OE1	2.08	0.53
1:V:364:TRP:HB2	1:X:479:LEU:O	2.08	0.53
1:V:533:PRO:HD3	1:X:355:TYR:CE2	2.42	0.53
1:c:573:GLU:OE1	1:s:629:LYS:HB3	2.08	0.53
1:f:219:PRO:HB2	1:g:292:TYR:O	2.09	0.53
1:m:292:TYR:O	1:n:219:PRO:HB2	2.09	0.53
1:q:479:LEU:O	1:r:364:TRP:HB2	2.08	0.53
1:r:367:PRO:HG2	1:r:374:TYR:CZ	2.42	0.53
1:u:116:ILE:HD11	1:u:214:TYR:HA	1.89	0.53
1:x:479:LEU:O	1:y:364:TRP:HB2	2.08	0.53
1:A:269:ARG:HH22	1:B:152:ASN:HD22	1.56	0.53
1:J:92:HIS:CE1	1:J:241:ALA:HB3	2.44	0.53
1:M:364:TRP:HB2	1:b:479:LEU:O	2.08	0.53
1:N:100:PHE:O	1:N:225:ARG:NH1	2.38	0.53
1:R:219:PRO:HB2	1:U:292:TYR:O	2.09	0.53
1:R:479:LEU:O	1:S:364:TRP:HB2	2.08	0.53
1:T:52:LYS:HE3	1:T:54:ILE:HD11	1.90	0.53
1:T:292:TYR:O	1:d:219:PRO:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:629:LYS:HB3	1:U:573:GLU:OE1	2.09	0.53
1:V:116:ILE:HD11	1:V:214:TYR:HA	1.89	0.53
1:c:52:LYS:HE3	1:c:54:ILE:HD11	1.90	0.53
1:e:52:LYS:HE3	1:e:54:ILE:HD11	1.90	0.53
1:f:100:PHE:O	1:f:225:ARG:NH1	2.38	0.53
1:j:479:LEU:O	1:k:364:TRP:HB2	2.08	0.53
1:m:52:LYS:HE3	1:m:54:ILE:HD11	1.90	0.53
1:m:152:ASN:HD22	1:s:269:ARG:HH22	1.55	0.53
1:n:269:ARG:HH22	1:r:152:ASN:HD22	1.55	0.53
1:t:364:TRP:HB2	1:v:479:LEU:O	2.08	0.53
1:w:116:ILE:HD11	1:w:214:TYR:HA	1.89	0.53
1:2:92:HIS:CE1	1:2:241:ALA:HB3	2.44	0.53
1:F:92:HIS:CE1	1:F:241:ALA:HB3	2.44	0.53
1:H:92:HIS:CE1	1:H:241:ALA:HB3	2.44	0.53
1:H:239:TRP:CE3	1:H:242:VAL:N	2.77	0.53
1:K:218:HIS:HE1	1:K:255:ASN:H	1.57	0.53
1:L:116:ILE:HD11	1:L:214:TYR:HA	1.89	0.53
1:N:92:HIS:CE1	1:N:241:ALA:HB3	2.44	0.53
1:O:219:PRO:HB2	1:n:292:TYR:O	2.09	0.53
1:T:152:ASN:HD22	1:U:269:ARG:HH22	1.55	0.53
1:Z:52:LYS:HE3	1:Z:54:ILE:HD11	1.90	0.53
1:b:629:LYS:HB3	1:o:573:GLU:OE1	2.09	0.53
1:d:292:TYR:O	1:l:219:PRO:HB2	2.09	0.53
1:i:92:HIS:CE1	1:i:241:ALA:HB3	2.44	0.53
1:m:629:LYS:HB3	1:s:573:GLU:OE1	2.09	0.53
1:q:219:PRO:HB2	1:s:292:TYR:O	2.09	0.53
1:u:100:PHE:O	1:u:225:ARG:NH1	2.38	0.53
1:u:614:GLY:HA2	1:u:618:LYS:HB2	1.88	0.53
1:v:100:PHE:O	1:v:225:ARG:NH1	2.38	0.53
1:v:629:LYS:HB3	1:w:573:GLU:OE1	2.09	0.53
1:y:92:HIS:CE1	1:y:241:ALA:HB3	2.44	0.53
1:2:152:ASN:HD22	1:3:269:ARG:HH22	1.55	0.53
1:5:239:TRP:CE3	1:5:242:VAL:N	2.77	0.53
1:8:52:LYS:HE3	1:8:54:ILE:HD11	1.90	0.53
1:A:364:TRP:HB2	1:I:479:LEU:O	2.08	0.53
1:B:479:LEU:O	1:J:364:TRP:HB2	2.08	0.53
1:C:100:PHE:O	1:C:225:ARG:NH1	2.38	0.53
1:D:292:TYR:O	1:N:219:PRO:HB2	2.09	0.53
1:E:116:ILE:HD11	1:E:214:TYR:HA	1.89	0.53
1:G:90:LYS:NZ	1:G:244:ASP:OD2	2.32	0.53
1:I:100:PHE:O	1:I:225:ARG:NH1	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:92:HIS:CE1	1:M:241:ALA:HB3	2.44	0.53
1:R:116:ILE:HD11	1:R:214:TYR:HA	1.89	0.53
1:S:152:ASN:HD22	1:d:269:ARG:HH22	1.55	0.53
1:S:629:LYS:HB3	1:d:573:GLU:OE1	2.09	0.53
1:U:96:LEU:H	1:U:96:LEU:CD2	2.03	0.53
1:V:292:TYR:O	1:e:219:PRO:HB2	2.09	0.53
1:Y:218:HIS:HE1	1:Y:255:ASN:H	1.57	0.53
1:Z:92:HIS:CE1	1:Z:241:ALA:HB3	2.44	0.53
1:c:219:PRO:HB2	1:p:292:TYR:O	2.09	0.53
1:h:92:HIS:CE1	1:h:241:ALA:HB3	2.44	0.53
1:i:219:PRO:HB2	1:k:292:TYR:O	2.09	0.53
1:j:52:LYS:HE3	1:j:54:ILE:HD11	1.90	0.53
1:n:116:ILE:HD11	1:n:214:TYR:HA	1.89	0.53
1:n:573:GLU:OE1	1:r:629:LYS:HB3	2.08	0.53
1:q:116:ILE:HD11	1:q:214:TYR:HA	1.89	0.53
1:q:313:LYS:O	1:q:316:SER:OG	2.26	0.53
1:z:116:ILE:HD11	1:z:214:TYR:HA	1.89	0.53
1:5:92:HIS:CE1	1:5:241:ALA:HB3	2.44	0.53
1:5:218:HIS:HE1	1:5:255:ASN:H	1.57	0.53
1:6:355:TYR:CE2	1:7:533:PRO:HD3	2.44	0.53
1:7:218:HIS:HE1	1:7:255:ASN:H	1.57	0.53
1:8:92:HIS:CE1	1:8:241:ALA:HB3	2.44	0.53
1:A:100:PHE:O	1:A:225:ARG:NH1	2.38	0.53
1:A:218:HIS:HE1	1:A:255:ASN:H	1.57	0.53
1:C:573:GLU:OE1	1:D:629:LYS:HB3	2.09	0.53
1:D:355:TYR:CE2	1:N:533:PRO:HD3	2.44	0.53
1:G:152:ASN:HD22	1:W:269:ARG:HH22	1.55	0.53
1:G:218:HIS:HE1	1:G:255:ASN:H	1.57	0.53
1:H:533:PRO:HD3	1:Y:355:TYR:CE2	2.44	0.53
1:J:152:ASN:HD22	1:a:269:ARG:HH22	1.55	0.53
1:K:629:LYS:HB3	1:L:573:GLU:OE1	2.09	0.53
1:M:219:PRO:HB2	1:b:292:TYR:O	2.09	0.53
1:O:92:HIS:CE1	1:O:241:ALA:HB3	2.44	0.53
1:R:313:LYS:O	1:R:316:SER:OG	2.26	0.53
1:S:292:TYR:O	1:U:219:PRO:HB2	2.09	0.53
1:W:92:HIS:CE1	1:W:241:ALA:HB3	2.44	0.53
1:W:218:HIS:HE1	1:W:255:ASN:H	1.57	0.53
1:W:355:TYR:CE2	1:Y:533:PRO:HD3	2.44	0.53
1:Z:364:TRP:HB2	1:3:479:LEU:O	2.08	0.53
1:a:52:LYS:HE3	1:a:54:ILE:HD11	1.90	0.53
1:b:100:PHE:O	1:b:225:ARG:NH1	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:92:HIS:CE1	1:d:241:ALA:HB3	2.44	0.53
1:e:629:LYS:HB3	1:h:573:GLU:OE1	2.09	0.53
1:f:292:TYR:O	1:h:219:PRO:HB2	2.09	0.53
1:g:100:PHE:O	1:g:225:ARG:NH1	2.38	0.53
1:g:573:GLU:OE1	1:k:629:LYS:HB3	2.09	0.53
1:i:533:PRO:HD3	1:k:355:TYR:CE2	2.44	0.53
1:l:92:HIS:CE1	1:l:241:ALA:HB3	2.44	0.53
1:l:239:TRP:CE3	1:l:242:VAL:N	2.77	0.53
1:n:92:HIS:CE1	1:n:241:ALA:HB3	2.44	0.53
1:p:116:ILE:HD11	1:p:214:TYR:HA	1.89	0.53
1:r:292:TYR:O	1:s:219:PRO:HB2	2.09	0.53
1:s:116:ILE:HD11	1:s:214:TYR:HA	1.89	0.53
1:u:479:LEU:O	1:v:364:TRP:HB2	2.08	0.53
1:v:218:HIS:HE1	1:v:255:ASN:H	1.57	0.53
1:v:573:GLU:OE1	1:1:629:LYS:HB3	2.09	0.53
1:w:355:TYR:CE2	1:x:533:PRO:HD3	2.44	0.53
1:y:239:TRP:CE3	1:y:242:VAL:N	2.77	0.53
1:z:292:TYR:O	1:1:219:PRO:HB2	2.09	0.53
1:z:573:GLU:OE1	1:4:629:LYS:HB3	2.09	0.53
1:1:479:LEU:O	1:2:364:TRP:HB2	2.08	0.53
1:3:52:LYS:HE3	1:3:54:ILE:HD11	1.90	0.53
1:4:218:HIS:HE1	1:4:255:ASN:H	1.57	0.53
1:5:533:PRO:HD3	1:7:355:TYR:CE2	2.44	0.53
1:6:218:HIS:HE1	1:6:255:ASN:H	1.57	0.53
1:A:533:PRO:HD3	1:I:355:TYR:CE2	2.43	0.53
1:B:219:PRO:HB2	1:L:292:TYR:O	2.09	0.53
1:B:355:TYR:CE2	1:J:533:PRO:HD3	2.44	0.53
1:E:355:TYR:CE2	1:Q:533:PRO:HD3	2.44	0.53
1:F:239:TRP:CE3	1:F:242:VAL:N	2.77	0.53
1:H:218:HIS:HE1	1:H:255:ASN:H	1.57	0.53
1:K:52:LYS:HE3	1:K:54:ILE:HD11	1.90	0.53
1:K:219:PRO:HB2	1:8:292:TYR:O	2.09	0.53
1:M:573:GLU:OE1	1:c:629:LYS:HB3	2.09	0.53
1:M:629:LYS:HB3	1:N:573:GLU:OE1	2.09	0.53
1:N:116:ILE:HD11	1:N:214:TYR:HA	1.89	0.53
1:P:152:ASN:HD22	1:Q:269:ARG:HH22	1.55	0.53
1:Q:92:HIS:CE1	1:Q:241:ALA:HB3	2.44	0.53
1:R:92:HIS:CE1	1:R:241:ALA:HB3	2.44	0.53
1:R:364:TRP:HB2	1:U:479:LEU:O	2.08	0.53
1:S:218:HIS:HE1	1:S:255:ASN:H	1.57	0.53
1:U:116:ILE:HD11	1:U:214:TYR:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:152:ASN:HD22	1:e:269:ARG:HH22	1.55	0.53
1:Z:292:TYR:O	1:4:219:PRO:HB2	2.09	0.53
1:c:269:ARG:HH22	1:s:152:ASN:HD22	1.55	0.53
1:d:116:ILE:HD11	1:d:214:TYR:HA	1.90	0.53
1:g:92:HIS:CE1	1:g:241:ALA:HB3	2.44	0.53
1:h:629:LYS:HB3	1:i:573:GLU:OE1	2.09	0.53
1:j:152:ASN:HD22	1:x:269:ARG:HH22	1.55	0.53
1:j:573:GLU:OE1	1:l:629:LYS:HB3	2.09	0.53
1:m:116:ILE:HD11	1:m:214:TYR:HA	1.89	0.53
1:o:479:LEU:O	1:p:364:TRP:HB2	2.08	0.53
1:q:92:HIS:CE1	1:q:241:ALA:HB3	2.44	0.53
1:q:364:TRP:HB2	1:s:479:LEU:O	2.08	0.53
1:r:92:HIS:CE1	1:r:241:ALA:HB3	2.44	0.53
1:r:573:GLU:OE1	1:x:629:LYS:HB3	2.09	0.53
1:s:96:LEU:H	1:s:96:LEU:CD2	2.03	0.53
1:t:52:LYS:HE3	1:t:54:ILE:HD11	1.90	0.53
1:t:218:HIS:HE1	1:t:255:ASN:H	1.57	0.53
1:u:96:LEU:H	1:u:96:LEU:CD2	2.03	0.53
1:w:52:LYS:HE3	1:w:54:ILE:HD11	1.90	0.53
1:x:100:PHE:O	1:x:225:ARG:NH1	2.38	0.53
1:1:313:LYS:O	1:1:316:SER:OG	2.26	0.53
1:1:355:TYR:CE2	1:2:533:PRO:HD3	2.44	0.53
1:3:92:HIS:CE1	1:3:241:ALA:HB3	2.44	0.53
1:C:92:HIS:CE1	1:C:241:ALA:HB3	2.44	0.53
1:F:533:PRO:HD3	1:Q:355:TYR:CE2	2.44	0.53
1:G:92:HIS:CE1	1:G:241:ALA:HB3	2.44	0.53
1:L:92:HIS:CE1	1:L:241:ALA:HB3	2.44	0.53
1:L:629:LYS:HB3	1:b:573:GLU:OE1	2.08	0.53
1:N:629:LYS:HB3	1:m:573:GLU:OE1	2.09	0.53
1:O:629:LYS:HB3	1:P:573:GLU:OE1	2.09	0.53
1:P:52:LYS:HE3	1:P:54:ILE:HD11	1.90	0.53
1:Q:629:LYS:HB3	1:S:573:GLU:OE1	2.09	0.53
1:R:355:TYR:CE2	1:S:533:PRO:HD3	2.44	0.53
1:S:92:HIS:CE1	1:S:241:ALA:HB3	2.44	0.53
1:S:355:TYR:CE2	1:U:533:PRO:HD3	2.44	0.53
1:V:52:LYS:HE3	1:V:54:ILE:HD11	1.90	0.53
1:Z:479:LEU:O	1:4:364:TRP:HB2	2.08	0.53
1:a:92:HIS:CE1	1:a:241:ALA:HB3	2.44	0.53
1:a:479:LEU:O	1:8:364:TRP:HB2	2.08	0.53
1:c:92:HIS:CE1	1:c:241:ALA:HB3	2.44	0.53
1:c:239:TRP:CE3	1:c:242:VAL:N	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:355:TYR:CE2	1:o:533:PRO:HD3	2.44	0.53
1:e:92:HIS:CE1	1:e:241:ALA:HB3	2.44	0.53
1:i:116:ILE:HD11	1:i:214:TYR:HA	1.89	0.53
1:m:92:HIS:CE1	1:m:241:ALA:HB3	2.44	0.53
1:n:100:PHE:O	1:n:225:ARG:NH1	2.38	0.53
1:p:92:HIS:CE1	1:p:241:ALA:HB3	2.44	0.53
1:q:355:TYR:CE2	1:r:533:PRO:HD3	2.44	0.53
1:r:218:HIS:HE1	1:r:255:ASN:H	1.57	0.53
1:r:355:TYR:CE2	1:s:533:PRO:HD3	2.44	0.53
1:t:92:HIS:CE1	1:t:241:ALA:HB3	2.44	0.53
1:t:152:ASN:HD22	1:6:269:ARG:HH22	1.55	0.53
1:x:92:HIS:CE1	1:x:241:ALA:HB3	2.44	0.53
1:x:355:TYR:CE2	1:y:533:PRO:HD3	2.44	0.53
1:y:614:GLY:HA3	1:y:620:LYS:H	1.74	0.53
1:z:92:HIS:CE1	1:z:241:ALA:HB3	2.44	0.53
1:3:218:HIS:HE1	1:3:255:ASN:H	1.57	0.53
1:4:52:LYS:HE3	1:4:54:ILE:HD11	1.90	0.53
1:4:239:TRP:CE3	1:4:242:VAL:N	2.77	0.53
1:6:92:HIS:CE1	1:6:241:ALA:HB3	2.44	0.53
1:B:313:LYS:O	1:B:316:SER:OG	2.26	0.53
1:B:533:PRO:HD3	1:L:355:TYR:CE2	2.44	0.53
1:C:218:HIS:HE1	1:C:255:ASN:H	1.57	0.53
1:C:219:PRO:HB2	1:M:292:TYR:O	2.09	0.53
1:E:52:LYS:HE3	1:E:54:ILE:HD11	1.90	0.53
1:F:218:HIS:HE1	1:F:255:ASN:H	1.57	0.53
1:F:614:GLY:HA3	1:F:620:LYS:H	1.74	0.53
1:G:52:LYS:HE3	1:G:54:ILE:HD11	1.90	0.53
1:G:355:TYR:CE2	1:I:533:PRO:HD3	2.44	0.53
1:I:52:LYS:HE3	1:I:54:ILE:HD11	1.90	0.53
1:K:239:TRP:CE3	1:K:242:VAL:N	2.77	0.53
1:K:364:TRP:HB2	1:8:479:LEU:O	2.08	0.53
1:L:218:HIS:HE1	1:L:255:ASN:H	1.57	0.53
1:M:533:PRO:HD3	1:b:355:TYR:CE2	2.44	0.53
1:Q:52:LYS:HE3	1:Q:54:ILE:HD11	1.90	0.53
1:Q:100:PHE:O	1:Q:225:ARG:NH1	2.38	0.53
1:Q:614:GLY:HA3	1:Q:620:LYS:H	1.74	0.53
1:R:614:GLY:HA3	1:R:620:LYS:H	1.74	0.53
1:T:92:HIS:CE1	1:T:241:ALA:HB3	2.44	0.53
1:T:355:TYR:CE2	1:d:533:PRO:HD3	2.44	0.53
1:X:364:TRP:HB2	1:e:479:LEU:O	2.08	0.53
1:X:629:LYS:HB3	1:Y:573:GLU:OE1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:355:TYR:CE2	1:4:533:PRO:HD3	2.44	0.53
1:Z:573:GLU:OE1	1:a:629:LYS:HB3	2.09	0.53
1:a:100:PHE:O	1:a:225:ARG:NH1	2.38	0.53
1:a:218:HIS:HE1	1:a:255:ASN:H	1.57	0.53
1:c:479:LEU:O	1:o:364:TRP:HB2	2.08	0.53
1:d:100:PHE:O	1:d:225:ARG:NH1	2.38	0.53
1:f:355:TYR:CE2	1:h:533:PRO:HD3	2.44	0.53
1:g:219:PRO:HB2	1:h:292:TYR:O	2.09	0.53
1:j:629:LYS:HB3	1:x:573:GLU:OE1	2.09	0.53
1:m:355:TYR:CE2	1:n:533:PRO:HD3	2.44	0.53
1:s:90:LYS:NZ	1:s:244:ASP:OD2	2.32	0.53
1:t:355:TYR:CE2	1:u:533:PRO:HD3	2.44	0.53
1:t:479:LEU:O	1:u:364:TRP:HB2	2.08	0.53
1:x:52:LYS:HE3	1:x:54:ILE:HD11	1.90	0.53
1:x:239:TRP:CE3	1:x:242:VAL:N	2.77	0.53
1:x:614:GLY:HA3	1:x:620:LYS:H	1.74	0.53
1:z:219:PRO:HB2	1:2:292:TYR:O	2.09	0.53
1:z:355:TYR:CE2	1:1:533:PRO:HD3	2.44	0.53
1:3:100:PHE:O	1:3:225:ARG:NH1	2.38	0.53
1:3:629:LYS:HB3	1:8:573:GLU:OE1	2.09	0.53
1:4:92:HIS:CE1	1:4:241:ALA:HB3	2.44	0.53
1:A:52:LYS:HE3	1:A:54:ILE:HD11	1.90	0.53
1:A:92:HIS:CE1	1:A:241:ALA:HB3	2.44	0.53
1:A:479:LEU:O	1:G:364:TRP:HB2	2.09	0.53
1:G:479:LEU:O	1:I:364:TRP:HB2	2.08	0.53
1:G:629:LYS:HB3	1:W:573:GLU:OE1	2.09	0.53
1:H:355:TYR:CE2	1:W:533:PRO:HD3	2.44	0.53
1:H:629:LYS:HB3	1:I:573:GLU:OE1	2.09	0.53
1:J:292:TYR:O	1:L:219:PRO:HB2	2.09	0.53
1:K:292:TYR:O	1:a:219:PRO:HB2	2.09	0.53
1:K:533:PRO:HD3	1:8:355:TYR:CE2	2.44	0.53
1:O:292:TYR:O	1:m:219:PRO:HB2	2.09	0.53
1:O:533:PRO:HD3	1:n:355:TYR:CE2	2.44	0.53
1:Q:239:TRP:CE3	1:Q:242:VAL:N	2.77	0.53
1:T:116:ILE:HD11	1:T:214:TYR:HA	1.90	0.53
1:T:219:PRO:HB2	1:l:292:TYR:O	2.09	0.53
1:U:90:LYS:NZ	1:U:244:ASP:OD2	2.32	0.53
1:V:92:HIS:CE1	1:V:241:ALA:HB3	2.44	0.53
1:Y:92:HIS:CE1	1:Y:241:ALA:HB3	2.44	0.53
1:c:218:HIS:HE1	1:c:255:ASN:H	1.57	0.53
1:f:573:GLU:OE1	1:z:629:LYS:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:152:ASN:HD22	1:1:269:ARG:HH22	1.55	0.53
1:g:218:HIS:HE1	1:g:255:ASN:H	1.57	0.53
1:p:52:LYS:HE3	1:p:54:ILE:HD11	1.90	0.53
1:q:614:GLY:HA3	1:q:620:LYS:H	1.74	0.53
1:s:239:TRP:CE3	1:s:242:VAL:N	2.77	0.53
1:t:629:LYS:HB3	1:6:573:GLU:OE1	2.09	0.53
1:u:52:LYS:HE3	1:u:54:ILE:HD11	1.90	0.53
1:u:292:TYR:O	1:v:219:PRO:HB2	2.09	0.53
1:v:92:HIS:CE1	1:v:241:ALA:HB3	2.44	0.53
1:w:219:PRO:HB2	1:y:292:TYR:O	2.09	0.53
1:y:116:ILE:HD11	1:y:214:TYR:HA	1.90	0.53
1:2:629:LYS:HB3	1:3:573:GLU:OE1	2.09	0.53
1:5:219:PRO:HB2	1:7:292:TYR:O	2.09	0.53
1:5:355:TYR:CE2	1:6:533:PRO:HD3	2.44	0.53
1:7:239:TRP:CE3	1:7:242:VAL:N	2.77	0.53
1:A:355:TYR:CE2	1:G:533:PRO:HD3	2.44	0.52
1:B:269:ARG:HH22	1:C:152:ASN:HD22	1.55	0.52
1:D:219:PRO:HB2	1:P:292:TYR:O	2.09	0.52
1:E:219:PRO:HB2	1:F:292:TYR:O	2.09	0.52
1:F:152:ASN:HD22	1:G:269:ARG:HH22	1.55	0.52
1:G:292:TYR:O	1:I:219:PRO:HB2	2.09	0.52
1:H:219:PRO:HB2	1:Y:292:TYR:O	2.09	0.52
1:K:92:HIS:CE1	1:K:241:ALA:HB3	2.44	0.52
1:N:292:TYR:O	1:P:219:PRO:HB2	2.09	0.52
1:O:573:GLU:OE1	1:d:629:LYS:HB3	2.09	0.52
1:P:100:PHE:O	1:P:225:ARG:NH1	2.38	0.52
1:P:629:LYS:HB3	1:Q:573:GLU:OE1	2.09	0.52
1:T:573:GLU:OE1	1:i:629:LYS:HB3	2.09	0.52
1:U:239:TRP:CE3	1:U:242:VAL:N	2.77	0.52
1:X:92:HIS:CE1	1:X:241:ALA:HB3	2.44	0.52
1:Z:239:TRP:CE3	1:Z:242:VAL:N	2.77	0.52
1:a:239:TRP:CE3	1:a:242:VAL:N	2.77	0.52
1:b:92:HIS:CE1	1:b:241:ALA:HB3	2.44	0.52
1:d:239:TRP:CE3	1:d:242:VAL:N	2.77	0.52
1:e:239:TRP:CE3	1:e:242:VAL:N	2.77	0.52
1:i:292:TYR:O	1:j:219:PRO:HB2	2.09	0.52
1:j:100:PHE:O	1:j:225:ARG:NH1	2.38	0.52
1:k:92:HIS:CE1	1:k:241:ALA:HB3	2.44	0.52
1:l:573:GLU:OE1	1:n:629:LYS:HB3	2.09	0.52
1:n:239:TRP:CE3	1:n:242:VAL:N	2.77	0.52
1:o:629:LYS:HB3	1:7:573:GLU:OE1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:292:TYR:O	1:u:219:PRO:HB2	2.09	0.52
1:u:573:GLU:OE1	1:5:629:LYS:HB3	2.09	0.52
1:y:218:HIS:HE1	1:y:255:ASN:H	1.57	0.52
1:z:218:HIS:HE1	1:z:255:ASN:H	1.57	0.52
1:1:92:HIS:CE1	1:1:241:ALA:HB3	2.44	0.52
1:3:219:PRO:HB2	1:4:292:TYR:O	2.09	0.52
1:7:92:HIS:CE1	1:7:241:ALA:HB3	2.44	0.52
1:B:92:HIS:CE1	1:B:241:ALA:HB3	2.44	0.52
1:C:355:TYR:CE2	1:b:533:PRO:HD3	2.44	0.52
1:D:92:HIS:CE1	1:D:241:ALA:HB3	2.44	0.52
1:D:573:GLU:OE1	1:E:629:LYS:HB3	2.09	0.52
1:F:116:ILE:HD11	1:F:214:TYR:HA	1.90	0.52
1:I:96:LEU:H	1:I:96:LEU:CD2	2.03	0.52
1:J:52:LYS:HE3	1:J:54:ILE:HD11	1.90	0.52
1:J:218:HIS:HE1	1:J:255:ASN:H	1.57	0.52
1:J:629:LYS:HB3	1:a:573:GLU:OE1	2.09	0.52
1:K:614:GLY:HA3	1:K:620:LYS:H	1.74	0.52
1:M:152:ASN:HD22	1:N:269:ARG:HH22	1.55	0.52
1:O:52:LYS:HE3	1:O:54:ILE:HD11	1.90	0.52
1:P:239:TRP:CE3	1:P:242:VAL:N	2.77	0.52
1:Y:629:LYS:HB3	1:4:573:GLU:OE1	2.09	0.52
1:Z:218:HIS:HE1	1:Z:255:ASN:H	1.57	0.52
1:c:292:TYR:O	1:o:219:PRO:HB2	2.09	0.52
1:d:355:TYR:CE2	1:l:533:PRO:HD3	2.44	0.52
1:e:218:HIS:HE1	1:e:255:ASN:H	1.57	0.52
1:f:92:HIS:CE1	1:f:241:ALA:HB3	2.44	0.52
1:f:533:PRO:HD3	1:g:355:TYR:CE2	2.44	0.52
1:j:292:TYR:O	1:k:219:PRO:HB2	2.09	0.52
1:k:573:GLU:OE1	1:w:629:LYS:HB3	2.09	0.52
1:l:52:LYS:HE3	1:l:54:ILE:HD11	1.90	0.52
1:o:92:HIS:CE1	1:o:241:ALA:HB3	2.44	0.52
1:q:629:LYS:HB3	1:y:573:GLU:OE1	2.09	0.52
1:r:116:ILE:HD11	1:r:214:TYR:HA	1.89	0.52
1:t:269:ARG:HH22	1:y:152:ASN:HD22	1.55	0.52
1:t:533:PRO:HD3	1:v:355:TYR:CE2	2.44	0.52
1:v:52:LYS:HE3	1:v:54:ILE:HD11	1.90	0.52
1:1:292:TYR:O	1:2:219:PRO:HB2	2.09	0.52
1:2:218:HIS:HE1	1:2:255:ASN:H	1.57	0.52
1:3:239:TRP:CE3	1:3:242:VAL:N	2.77	0.52
1:8:239:TRP:CE3	1:8:242:VAL:N	2.77	0.52
1:C:614:GLY:HA3	1:C:620:LYS:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:614:GLY:HA3	1:E:620:LYS:H	1.74	0.52
1:F:52:LYS:HE3	1:F:54:ILE:HD11	1.90	0.52
1:F:573:GLU:OE1	1:R:629:LYS:HB3	2.09	0.52
1:H:52:LYS:HE3	1:H:54:ILE:HD11	1.90	0.52
1:I:92:HIS:CE1	1:I:241:ALA:HB3	2.44	0.52
1:J:614:GLY:HA3	1:J:620:LYS:H	1.74	0.52
1:K:355:TYR:CE2	1:a:533:PRO:HD3	2.44	0.52
1:K:573:GLU:OE1	1:7:629:LYS:HB3	2.09	0.52
1:R:52:LYS:HE3	1:R:54:ILE:HD11	1.90	0.52
1:U:218:HIS:HE1	1:U:255:ASN:H	1.57	0.52
1:V:90:LYS:NZ	1:V:244:ASP:OD2	2.32	0.52
1:V:614:GLY:HA3	1:V:620:LYS:H	1.74	0.52
1:W:292:TYR:O	1:Y:219:PRO:HB2	2.09	0.52
1:Y:239:TRP:CE3	1:Y:242:VAL:N	2.77	0.52
1:Z:533:PRO:HD3	1:3:355:TYR:CE2	2.44	0.52
1:a:355:TYR:CE2	1:8:533:PRO:HD3	2.44	0.52
1:d:614:GLY:HA3	1:d:620:LYS:H	1.74	0.52
1:g:533:PRO:HD3	1:h:355:TYR:CE2	2.44	0.52
1:g:614:GLY:HA3	1:g:620:LYS:H	1.74	0.52
1:g:629:LYS:HB3	1:1:573:GLU:OE1	2.09	0.52
1:h:152:ASN:HD22	1:i:269:ARG:HH22	1.55	0.52
1:j:239:TRP:CE3	1:j:242:VAL:N	2.77	0.52
1:j:269:ARG:HH22	1:l:152:ASN:HD22	1.55	0.52
1:j:355:TYR:CE2	1:k:533:PRO:HD3	2.44	0.52
1:n:614:GLY:HA3	1:n:620:LYS:H	1.75	0.52
1:p:218:HIS:HE1	1:p:255:ASN:H	1.57	0.52
1:p:614:GLY:HA3	1:p:620:LYS:H	1.74	0.52
1:w:92:HIS:CE1	1:w:241:ALA:HB3	2.44	0.52
1:w:614:GLY:HA3	1:w:620:LYS:H	1.74	0.52
1:2:52:LYS:HE3	1:2:54:ILE:HD11	1.90	0.52
1:4:614:GLY:HA3	1:4:620:LYS:H	1.74	0.52
1:B:292:TYR:O	1:J:219:PRO:HB2	2.09	0.52
1:B:573:GLU:OE1	1:C:629:LYS:HB3	2.09	0.52
1:C:533:PRO:HD3	1:M:355:TYR:CE2	2.44	0.52
1:E:92:HIS:CE1	1:E:241:ALA:HB3	2.44	0.52
1:J:355:TYR:CE2	1:L:533:PRO:HD3	2.44	0.52
1:N:218:HIS:HE1	1:N:255:ASN:H	1.57	0.52
1:O:152:ASN:HD22	1:P:269:ARG:HH22	1.55	0.52
1:S:116:ILE:HD11	1:S:214:TYR:HA	1.89	0.52
1:X:90:LYS:NZ	1:X:244:ASP:OD2	2.32	0.52
1:X:194:ALA:HB1	1:X:199:GLU:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:52:LYS:HE3	1:b:54:ILE:HD11	1.90	0.52
1:f:52:LYS:HE3	1:f:54:ILE:HD11	1.90	0.52
1:k:116:ILE:HD11	1:k:214:TYR:HA	1.89	0.52
1:s:218:HIS:HE1	1:s:255:ASN:H	1.57	0.52
1:u:92:HIS:CE1	1:u:241:ALA:HB3	2.44	0.52
1:y:52:LYS:HE3	1:y:54:ILE:HD11	1.90	0.52
1:2:614:GLY:HA3	1:2:620:LYS:H	1.74	0.52
1:3:533:PRO:HD3	1:4:355:TYR:CE2	2.44	0.52
1:5:52:LYS:HE3	1:5:54:ILE:HD11	1.90	0.52
1:6:292:TYR:O	1:7:219:PRO:HB2	2.09	0.52
1:8:218:HIS:HE1	1:8:255:ASN:H	1.57	0.52
1:A:292:TYR:O	1:G:219:PRO:HB2	2.09	0.52
1:D:116:ILE:HD11	1:D:214:TYR:HA	1.89	0.52
1:D:533:PRO:HD3	1:P:355:TYR:CE2	2.44	0.52
1:I:313:LYS:O	1:I:316:SER:OG	2.26	0.52
1:J:194:ALA:HB1	1:J:199:GLU:O	2.10	0.52
1:M:194:ALA:HB1	1:M:199:GLU:O	2.10	0.52
1:N:239:TRP:CE3	1:N:242:VAL:N	2.77	0.52
1:N:355:TYR:CE2	1:P:533:PRO:HD3	2.44	0.52
1:V:218:HIS:HE1	1:V:255:ASN:H	1.57	0.52
1:X:100:PHE:O	1:X:225:ARG:NH1	2.38	0.52
1:X:621:TYR:CD2	1:Y:251:GLU:HB2	2.45	0.52
1:c:364:TRP:HB2	1:p:479:LEU:O	2.08	0.52
1:d:218:HIS:HE1	1:d:255:ASN:H	1.57	0.52
1:h:194:ALA:HB1	1:h:199:GLU:O	2.10	0.52
1:i:239:TRP:CE3	1:i:242:VAL:N	2.77	0.52
1:i:355:TYR:CE2	1:j:533:PRO:HD3	2.44	0.52
1:o:194:ALA:HB1	1:o:199:GLU:O	2.10	0.52
1:q:52:LYS:HE3	1:q:54:ILE:HD11	1.90	0.52
1:r:192:THR:H	1:r:556:GLN:NE2	2.06	0.52
1:t:219:PRO:HB2	1:v:292:TYR:O	2.09	0.52
1:u:313:LYS:O	1:u:316:SER:OG	2.26	0.52
1:u:355:TYR:CE2	1:v:533:PRO:HD3	2.44	0.52
1:z:533:PRO:HD3	1:2:355:TYR:CE2	2.44	0.52
1:4:313:LYS:O	1:4:316:SER:OG	2.26	0.52
1:5:96:LEU:H	1:5:96:LEU:CD2	2.03	0.52
1:6:52:LYS:HE3	1:6:54:ILE:HD11	1.90	0.52
1:F:219:PRO:HB2	1:Q:292:TYR:O	2.09	0.52
1:K:479:LEU:O	1:a:364:TRP:HB2	2.08	0.52
1:L:239:TRP:CE3	1:L:242:VAL:N	2.77	0.52
1:O:194:ALA:HB1	1:O:199:GLU:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:194:ALA:HB1	1:P:199:GLU:O	2.10	0.52
1:R:194:ALA:HB1	1:R:199:GLU:O	2.10	0.52
1:R:573:GLU:OE1	1:V:629:LYS:HB3	2.09	0.52
1:V:194:ALA:HB1	1:V:199:GLU:O	2.10	0.52
1:Y:194:ALA:HB1	1:Y:199:GLU:O	2.10	0.52
1:a:194:ALA:HB1	1:a:199:GLU:O	2.10	0.52
1:e:194:ALA:HB1	1:e:199:GLU:O	2.10	0.52
1:f:90:LYS:NZ	1:f:244:ASP:OD2	2.32	0.52
1:i:218:HIS:HE1	1:i:255:ASN:H	1.57	0.52
1:j:92:HIS:CE1	1:j:241:ALA:HB3	2.44	0.52
1:j:194:ALA:HB1	1:j:199:GLU:O	2.10	0.52
1:l:194:ALA:HB1	1:l:199:GLU:O	2.10	0.52
1:n:218:HIS:HE1	1:n:255:ASN:H	1.57	0.52
1:p:194:ALA:HB1	1:p:199:GLU:O	2.10	0.52
1:q:533:PRO:HD3	1:s:355:TYR:CE2	2.44	0.52
1:v:614:GLY:HA3	1:v:620:LYS:H	1.74	0.52
1:w:533:PRO:HD3	1:y:355:TYR:CE2	2.44	0.52
1:z:239:TRP:CE3	1:z:242:VAL:N	2.77	0.52
1:2:194:ALA:HB1	1:2:199:GLU:O	2.10	0.52
1:8:96:LEU:H	1:8:96:LEU:CD2	2.03	0.52
1:A:614:GLY:HA3	1:A:620:LYS:H	1.74	0.52
1:B:614:GLY:HA3	1:B:620:LYS:H	1.74	0.52
1:E:533:PRO:HD3	1:F:355:TYR:CE2	2.44	0.52
1:F:194:ALA:HB1	1:F:199:GLU:O	2.10	0.52
1:H:573:GLU:OE1	1:Z:629:LYS:HB3	2.09	0.52
1:H:614:GLY:HA3	1:H:620:LYS:H	1.74	0.52
1:I:218:HIS:HE1	1:I:255:ASN:H	1.57	0.52
1:K:194:ALA:HB1	1:K:199:GLU:O	2.10	0.52
1:L:194:ALA:HB1	1:L:199:GLU:O	2.10	0.52
1:M:52:LYS:HE3	1:M:54:ILE:HD11	1.90	0.52
1:O:355:TYR:CE2	1:m:533:PRO:HD3	2.44	0.52
1:Q:194:ALA:HB1	1:Q:199:GLU:O	2.10	0.52
1:S:52:LYS:HE3	1:S:54:ILE:HD11	1.90	0.52
1:T:533:PRO:HD3	1:l:355:TYR:CE2	2.44	0.52
1:V:479:LEU:O	1:e:364:TRP:HB2	2.08	0.52
1:W:52:LYS:HE3	1:W:54:ILE:HD11	1.90	0.52
1:X:573:GLU:OE1	1:f:629:LYS:HB3	2.10	0.52
1:b:239:TRP:CE3	1:b:242:VAL:N	2.77	0.52
1:h:52:LYS:HE3	1:h:54:ILE:HD11	1.90	0.52
1:i:90:LYS:NZ	1:i:244:ASP:OD2	2.32	0.52
1:i:614:GLY:HA3	1:i:620:LYS:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:218:HIS:HE1	1:o:255:ASN:H	1.57	0.52
1:p:573:GLU:OE1	1:6:629:LYS:HB3	2.09	0.52
1:q:194:ALA:HB1	1:q:199:GLU:O	2.10	0.52
1:x:292:TYR:O	1:y:219:PRO:HB2	2.09	0.52
1:y:194:ALA:HB1	1:y:199:GLU:O	2.10	0.52
1:1:614:GLY:HA3	1:1:620:LYS:H	1.74	0.52
1:3:96:LEU:H	1:3:96:LEU:CD2	2.03	0.52
1:3:194:ALA:HB1	1:3:199:GLU:O	2.10	0.52
1:3:364:TRP:HB2	1:4:479:LEU:O	2.08	0.52
1:4:194:ALA:HB1	1:4:199:GLU:O	2.10	0.52
1:5:573:GLU:OE1	1:8:629:LYS:HB3	2.09	0.52
1:7:194:ALA:HB1	1:7:199:GLU:O	2.10	0.52
1:D:239:TRP:CE3	1:D:242:VAL:N	2.77	0.52
1:N:313:LYS:O	1:N:316:SER:OG	2.26	0.52
1:N:614:GLY:HA3	1:N:620:LYS:H	1.74	0.52
1:P:92:HIS:CE1	1:P:241:ALA:HB3	2.44	0.52
1:R:239:TRP:CE3	1:R:242:VAL:N	2.77	0.52
1:R:292:TYR:O	1:S:219:PRO:HB2	2.09	0.52
1:R:533:PRO:HD3	1:U:355:TYR:CE2	2.44	0.52
1:T:614:GLY:HA3	1:T:620:LYS:H	1.74	0.52
1:X:218:HIS:HE1	1:X:255:ASN:H	1.57	0.52
1:Z:96:LEU:H	1:Z:96:LEU:CD2	2.03	0.52
1:f:239:TRP:CE3	1:f:242:VAL:N	2.77	0.52
1:j:218:HIS:HE1	1:j:255:ASN:H	1.57	0.52
1:j:614:GLY:HA3	1:j:620:LYS:H	1.74	0.52
1:k:194:ALA:HB1	1:k:199:GLU:O	2.10	0.52
1:m:614:GLY:HA3	1:m:620:LYS:H	1.74	0.52
1:o:100:PHE:O	1:o:225:ARG:NH1	2.38	0.52
1:o:355:TYR:CE2	1:p:533:PRO:HD3	2.44	0.52
1:r:52:LYS:HE3	1:r:54:ILE:HD11	1.90	0.52
1:r:194:ALA:HB1	1:r:199:GLU:O	2.10	0.52
1:u:218:HIS:HE1	1:u:255:ASN:H	1.57	0.52
1:u:239:TRP:CE3	1:u:242:VAL:N	2.77	0.52
1:w:239:TRP:CE3	1:w:242:VAL:N	2.77	0.52
1:x:194:ALA:HB1	1:x:199:GLU:O	2.10	0.52
1:z:194:ALA:HB1	1:z:199:GLU:O	2.10	0.52
1:2:313:LYS:O	1:2:316:SER:OG	2.26	0.52
1:3:614:GLY:HA3	1:3:620:LYS:H	1.74	0.52
1:5:292:TYR:O	1:6:219:PRO:HB2	2.09	0.52
1:5:614:GLY:HA3	1:5:620:LYS:H	1.74	0.52
1:A:629:LYS:HB3	1:E:573:GLU:OE1	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:52:LYS:HE3	1:C:54:ILE:HD11	1.90	0.52
1:D:194:ALA:HB1	1:D:199:GLU:O	2.10	0.52
1:E:218:HIS:HE1	1:E:255:ASN:H	1.57	0.52
1:E:239:TRP:CE3	1:E:242:VAL:N	2.77	0.52
1:G:194:ALA:HB1	1:G:199:GLU:O	2.10	0.52
1:I:239:TRP:CE3	1:I:242:VAL:N	2.77	0.52
1:O:614:GLY:HA3	1:O:620:LYS:H	1.74	0.52
1:P:218:HIS:HE1	1:P:255:ASN:H	1.57	0.52
1:P:614:GLY:HA3	1:P:620:LYS:H	1.74	0.52
1:S:194:ALA:HB1	1:S:199:GLU:O	2.10	0.52
1:V:573:GLU:OE1	1:W:629:LYS:HB3	2.09	0.52
1:a:96:LEU:H	1:a:96:LEU:CD2	2.03	0.52
1:a:614:GLY:HA3	1:a:620:LYS:H	1.74	0.52
1:c:194:ALA:HB1	1:c:199:GLU:O	2.10	0.52
1:f:614:GLY:HA3	1:f:620:LYS:H	1.74	0.52
1:o:292:TYR:O	1:p:219:PRO:HB2	2.09	0.52
1:o:313:LYS:O	1:o:316:SER:OG	2.26	0.52
1:q:239:TRP:CE3	1:q:242:VAL:N	2.77	0.52
1:q:292:TYR:O	1:r:219:PRO:HB2	2.09	0.52
1:r:614:GLY:HA3	1:r:620:LYS:H	1.74	0.52
1:D:218:HIS:HE1	1:D:255:ASN:H	1.57	0.52
1:H:292:TYR:O	1:W:219:PRO:HB2	2.09	0.52
1:I:629:LYS:HB3	1:J:573:GLU:OE1	2.09	0.52
1:J:313:LYS:O	1:J:316:SER:OG	2.26	0.52
1:S:100:PHE:O	1:S:225:ARG:NH1	2.38	0.52
1:S:614:GLY:HA3	1:S:620:LYS:H	1.74	0.52
1:X:239:TRP:CE3	1:X:242:VAL:N	2.77	0.52
1:X:614:GLY:HA3	1:X:620:LYS:H	1.74	0.52
1:Z:219:PRO:HB2	1:3:292:TYR:O	2.09	0.52
1:c:533:PRO:HD3	1:p:355:TYR:CE2	2.44	0.52
1:e:614:GLY:HA3	1:e:620:LYS:H	1.74	0.52
1:i:313:LYS:O	1:i:316:SER:OG	2.26	0.52
1:k:239:TRP:CE3	1:k:242:VAL:N	2.77	0.52
1:l:614:GLY:HA3	1:l:620:LYS:H	1.74	0.52
1:p:629:LYS:HB3	1:q:573:GLU:OE1	2.09	0.52
1:r:100:PHE:O	1:r:225:ARG:NH1	2.38	0.52
1:t:194:ALA:HB1	1:t:199:GLU:O	2.10	0.52
1:w:218:HIS:HE1	1:w:255:ASN:H	1.57	0.52
1:5:194:ALA:HB1	1:5:199:GLU:O	2.10	0.52
1:A:573:GLU:OE1	1:B:629:LYS:HB3	2.10	0.51
1:B:194:ALA:HB1	1:B:199:GLU:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:194:ALA:HB1	1:E:199:GLU:O	2.10	0.51
1:H:194:ALA:HB1	1:H:199:GLU:O	2.10	0.51
1:L:614:GLY:HA3	1:L:620:LYS:H	1.74	0.51
1:M:218:HIS:HE1	1:M:255:ASN:H	1.57	0.51
1:N:90:LYS:NZ	1:N:244:ASP:OD2	2.32	0.51
1:U:614:GLY:HA3	1:U:620:LYS:H	1.74	0.51
1:V:355:TYR:CE2	1:e:533:PRO:HD3	2.44	0.51
1:a:292:TYR:O	1:8:219:PRO:HB2	2.09	0.51
1:b:194:ALA:HB1	1:b:199:GLU:O	2.10	0.51
1:b:218:HIS:HE1	1:b:255:ASN:H	1.57	0.51
1:b:614:GLY:HA3	1:b:620:LYS:H	1.75	0.51
1:c:607:ARG:NH1	1:c:642:THR:OG1	2.44	0.51
1:e:607:ARG:NH1	1:e:642:THR:OG1	2.44	0.51
1:k:218:HIS:HE1	1:k:255:ASN:H	1.57	0.51
1:o:239:TRP:CE3	1:o:242:VAL:N	2.77	0.51
1:v:239:TRP:CE3	1:v:242:VAL:N	2.77	0.51
1:w:194:ALA:HB1	1:w:199:GLU:O	2.10	0.51
1:w:292:TYR:O	1:x:219:PRO:HB2	2.09	0.51
1:z:614:GLY:HA3	1:z:620:LYS:H	1.74	0.51
1:1:194:ALA:HB1	1:1:199:GLU:O	2.10	0.51
1:B:218:HIS:HE1	1:B:255:ASN:H	1.57	0.51
1:B:251:GLU:HB2	1:C:621:TYR:CD2	2.46	0.51
1:E:292:TYR:O	1:Q:219:PRO:HB2	2.09	0.51
1:Q:621:TYR:CD2	1:S:251:GLU:HB2	2.46	0.51
1:T:218:HIS:HE1	1:T:255:ASN:H	1.57	0.51
1:c:614:GLY:HA3	1:c:620:LYS:H	1.75	0.51
1:f:194:ALA:HB1	1:f:199:GLU:O	2.10	0.51
1:f:218:HIS:HE1	1:f:255:ASN:H	1.57	0.51
1:g:52:LYS:HE3	1:g:54:ILE:HD11	1.90	0.51
1:g:621:TYR:CD2	1:1:251:GLU:HB2	2.46	0.51
1:l:218:HIS:HE1	1:l:255:ASN:H	1.57	0.51
1:o:614:GLY:HA3	1:o:620:LYS:H	1.74	0.51
1:r:251:GLU:HB2	1:x:621:TYR:CD2	2.46	0.51
1:s:614:GLY:HA3	1:s:620:LYS:H	1.74	0.51
1:t:573:GLU:OE1	1:y:629:LYS:HB3	2.09	0.51
1:u:629:LYS:HB3	1:2:573:GLU:OE1	2.09	0.51
1:w:100:PHE:O	1:w:225:ARG:NH1	2.38	0.51
1:1:218:HIS:HE1	1:1:255:ASN:H	1.57	0.51
1:7:614:GLY:HA3	1:7:620:LYS:H	1.74	0.51
1:8:614:GLY:HA3	1:8:620:LYS:H	1.74	0.51
1:A:239:TRP:CE3	1:A:242:VAL:N	2.77	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:607:ARG:NH1	1:B:642:THR:OG1	2.44	0.51
1:J:239:TRP:CE3	1:J:242:VAL:N	2.77	0.51
1:M:90:LYS:NZ	1:M:244:ASP:OD2	2.32	0.51
1:U:607:ARG:NH1	1:U:642:THR:OG1	2.44	0.51
1:Y:614:GLY:HA3	1:Y:620:LYS:H	1.74	0.51
1:a:607:ARG:NH1	1:a:642:THR:OG1	2.44	0.51
1:h:218:HIS:HE1	1:h:255:ASN:H	1.57	0.51
1:k:607:ARG:NH1	1:k:642:THR:OG1	2.44	0.51
1:p:607:ARG:NH1	1:p:642:THR:OG1	2.44	0.51
1:s:607:ARG:NH1	1:s:642:THR:OG1	2.44	0.51
1:w:607:ARG:NH1	1:w:642:THR:OG1	2.44	0.51
1:1:607:ARG:NH1	1:1:642:THR:OG1	2.44	0.51
1:2:239:TRP:CE3	1:2:242:VAL:N	2.77	0.51
1:3:607:ARG:NH1	1:3:642:THR:OG1	2.44	0.51
1:D:607:ARG:NH1	1:D:642:THR:OG1	2.44	0.51
1:E:607:ARG:NH1	1:E:642:THR:OG1	2.44	0.51
1:F:629:LYS:HB3	1:G:573:GLU:OE1	2.09	0.51
1:H:607:ARG:NH1	1:H:642:THR:OG1	2.44	0.51
1:U:92:HIS:CE1	1:U:241:ALA:HB3	2.44	0.51
1:V:239:TRP:CE3	1:V:242:VAL:N	2.77	0.51
1:V:607:ARG:NH1	1:V:642:THR:OG1	2.44	0.51
1:b:607:ARG:NH1	1:b:642:THR:OG1	2.44	0.51
1:b:621:TYR:CD2	1:o:251:GLU:HB2	2.46	0.51
1:h:90:LYS:NZ	1:h:244:ASP:OD2	2.32	0.51
1:m:218:HIS:HE1	1:m:255:ASN:H	1.57	0.51
1:t:607:ARG:NH1	1:t:642:THR:OG1	2.44	0.51
1:t:614:GLY:HA3	1:t:620:LYS:H	1.74	0.51
1:2:100:PHE:O	1:2:225:ARG:NH1	2.38	0.51
1:5:607:ARG:NH1	1:5:642:THR:OG1	2.44	0.51
1:A:607:ARG:NH1	1:A:642:THR:OG1	2.44	0.51
1:C:194:ALA:HB1	1:C:199:GLU:O	2.10	0.51
1:D:251:GLU:HB2	1:E:621:TYR:CD2	2.46	0.51
1:F:96:LEU:H	1:F:96:LEU:CD2	2.03	0.51
1:G:607:ARG:NH1	1:G:642:THR:OG1	2.44	0.51
1:G:614:GLY:HA3	1:G:620:LYS:H	1.74	0.51
1:I:621:TYR:CD2	1:J:251:GLU:HB2	2.46	0.51
1:M:607:ARG:NH1	1:M:642:THR:OG1	2.44	0.51
1:N:192:THR:H	1:N:556:GLN:NE2	2.06	0.51
1:O:218:HIS:HE1	1:O:255:ASN:H	1.57	0.51
1:Z:614:GLY:HA3	1:Z:620:LYS:H	1.74	0.51
1:f:607:ARG:NH1	1:f:642:THR:OG1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:194:ALA:HB1	1:g:199:GLU:O	2.10	0.51
1:k:251:GLU:HB2	1:w:621:TYR:CD2	2.46	0.51
1:o:621:TYR:CD2	1:7:251:GLU:HB2	2.46	0.51
1:v:607:ARG:NH1	1:v:642:THR:OG1	2.44	0.51
1:w:90:LYS:NZ	1:w:244:ASP:OD2	2.32	0.51
1:z:251:GLU:HB2	1:4:621:TYR:CD2	2.46	0.51
1:5:251:GLU:HB2	1:8:621:TYR:CD2	2.46	0.51
1:E:100:PHE:O	1:E:225:ARG:NH1	2.38	0.51
1:H:251:GLU:HB2	1:Z:621:TYR:CD2	2.46	0.51
1:K:621:TYR:CD2	1:L:251:GLU:HB2	2.46	0.51
1:M:621:TYR:CD2	1:N:251:GLU:HB2	2.46	0.51
1:N:194:ALA:HB1	1:N:199:GLU:O	2.10	0.51
1:N:621:TYR:CD2	1:m:251:GLU:HB2	2.46	0.51
1:P:607:ARG:NH1	1:P:642:THR:OG1	2.44	0.51
1:T:100:PHE:O	1:T:225:ARG:NH1	2.38	0.51
1:T:607:ARG:NH1	1:T:642:THR:OG1	2.44	0.51
1:Y:621:TYR:CD2	1:4:251:GLU:HB2	2.46	0.51
1:h:239:TRP:CE3	1:h:242:VAL:N	2.77	0.51
1:h:607:ARG:NH1	1:h:642:THR:OG1	2.44	0.51
1:h:621:TYR:CD2	1:i:251:GLU:HB2	2.46	0.51
1:m:607:ARG:NH1	1:m:642:THR:OG1	2.44	0.51
1:p:239:TRP:CE3	1:p:242:VAL:N	2.77	0.51
1:r:90:LYS:NZ	1:r:244:ASP:OD2	2.32	0.51
1:s:92:HIS:CE1	1:s:241:ALA:HB3	2.44	0.51
1:v:194:ALA:HB1	1:v:199:GLU:O	2.10	0.51
1:y:607:ARG:NH1	1:y:642:THR:OG1	2.44	0.51
1:A:219:PRO:HB2	1:I:292:TYR:O	2.10	0.51
1:C:251:GLU:HB2	1:D:621:TYR:CD2	2.46	0.51
1:D:614:GLY:HA3	1:D:620:LYS:H	1.74	0.51
1:F:607:ARG:NH1	1:F:642:THR:OG1	2.44	0.51
1:K:251:GLU:HB2	1:7:621:TYR:CD2	2.46	0.51
1:O:607:ARG:NH1	1:O:642:THR:OG1	2.44	0.51
1:S:92:HIS:CG	1:S:239:TRP:CB	2.94	0.51
1:T:251:GLU:HB2	1:i:621:TYR:CD2	2.46	0.51
1:U:621:TYR:CD2	1:e:251:GLU:HB2	2.46	0.51
1:c:251:GLU:HB2	1:s:621:TYR:CD2	2.46	0.51
1:g:251:GLU:HB2	1:k:621:TYR:CD2	2.46	0.51
1:j:607:ARG:NH1	1:j:642:THR:OG1	2.44	0.51
1:m:194:ALA:HB1	1:m:199:GLU:O	2.10	0.51
1:u:621:TYR:CD2	1:2:251:GLU:HB2	2.46	0.51
1:v:251:GLU:HB2	1:1:621:TYR:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:100:PHE:O	1:1:225:ARG:NH1	2.38	0.51
1:4:607:ARG:NH1	1:4:642:THR:OG1	2.44	0.51
1:A:194:ALA:HB1	1:A:199:GLU:O	2.10	0.51
1:G:621:TYR:CD2	1:W:251:GLU:HB2	2.46	0.51
1:K:607:ARG:NH1	1:K:642:THR:OG1	2.44	0.51
1:R:251:GLU:HB2	1:V:621:TYR:CD2	2.46	0.51
1:W:194:ALA:HB1	1:W:199:GLU:O	2.10	0.51
1:X:251:GLU:HB2	1:f:621:TYR:CD2	2.46	0.51
1:Z:251:GLU:HB2	1:a:621:TYR:CD2	2.46	0.51
1:d:194:ALA:HB1	1:d:199:GLU:O	2.10	0.51
1:f:251:GLU:HB2	1:z:621:TYR:CD2	2.46	0.51
1:g:313:LYS:O	1:g:316:SER:OG	2.26	0.51
1:i:194:ALA:HB1	1:i:199:GLU:O	2.10	0.51
1:k:614:GLY:HA3	1:k:620:LYS:H	1.74	0.51
1:l:607:ARG:NH1	1:l:642:THR:OG1	2.44	0.51
1:o:607:ARG:NH1	1:o:642:THR:OG1	2.44	0.51
1:p:100:PHE:O	1:p:225:ARG:NH1	2.38	0.51
1:q:607:ARG:NH1	1:q:642:THR:OG1	2.44	0.51
1:r:92:HIS:CG	1:r:239:TRP:CB	2.94	0.51
1:t:621:TYR:CD2	1:6:251:GLU:HB2	2.46	0.51
1:u:194:ALA:HB1	1:u:199:GLU:O	2.10	0.51
1:x:607:ARG:NH1	1:x:642:THR:OG1	2.44	0.51
1:4:100:PHE:O	1:4:225:ARG:NH1	2.38	0.51
1:8:607:ARG:NH1	1:8:642:THR:OG1	2.44	0.51
1:E:90:LYS:NZ	1:E:244:ASP:OD2	2.32	0.51
1:I:194:ALA:HB1	1:I:199:GLU:O	2.10	0.51
1:K:100:PHE:O	1:K:225:ARG:NH1	2.38	0.51
1:L:621:TYR:CD2	1:b:251:GLU:HB2	2.46	0.51
1:M:239:TRP:CE3	1:M:242:VAL:N	2.77	0.51
1:M:251:GLU:HB2	1:c:621:TYR:CD2	2.46	0.51
1:M:614:GLY:HA3	1:M:620:LYS:H	1.74	0.51
1:R:607:ARG:NH1	1:R:642:THR:OG1	2.44	0.51
1:S:90:LYS:NZ	1:S:244:ASP:OD2	2.32	0.51
1:T:194:ALA:HB1	1:T:199:GLU:O	2.10	0.51
1:U:194:ALA:HB1	1:U:199:GLU:O	2.10	0.51
1:V:219:PRO:HB2	1:X:292:TYR:O	2.10	0.51
1:W:607:ARG:NH1	1:W:642:THR:OG1	2.44	0.51
1:X:219:PRO:HB2	1:e:292:TYR:O	2.11	0.51
1:X:607:ARG:NH1	1:X:642:THR:OG1	2.44	0.51
1:Z:607:ARG:NH1	1:Z:642:THR:OG1	2.44	0.51
1:e:621:TYR:CD2	1:h:251:GLU:HB2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:192:THR:H	1:i:556:GLN:NE2	2.06	0.51
1:n:194:ALA:HB1	1:n:199:GLU:O	2.10	0.51
1:p:621:TYR:CD2	1:q:251:GLU:HB2	2.46	0.51
1:r:607:ARG:NH1	1:r:642:THR:OG1	2.44	0.51
1:s:194:ALA:HB1	1:s:199:GLU:O	2.10	0.51
1:v:92:HIS:CG	1:v:239:TRP:CB	2.94	0.51
1:x:92:HIS:CG	1:x:239:TRP:CB	2.94	0.51
1:1:192:THR:H	1:1:556:GLN:NE2	2.06	0.51
1:1:237:LEU:HD22	1:1:238:THR:HG23	1.93	0.51
1:3:621:TYR:CD2	1:8:251:GLU:HB2	2.46	0.51
1:6:194:ALA:HB1	1:6:199:GLU:O	2.10	0.51
1:A:92:HIS:CG	1:A:239:TRP:CB	2.94	0.51
1:B:90:LYS:NZ	1:B:244:ASP:OD2	2.32	0.51
1:B:237:LEU:HD22	1:B:238:THR:HG23	1.93	0.51
1:C:313:LYS:O	1:C:316:SER:OG	2.26	0.51
1:C:607:ARG:NH1	1:C:642:THR:OG1	2.44	0.51
1:K:237:LEU:HD22	1:K:238:THR:HG23	1.93	0.51
1:L:237:LEU:HD22	1:L:238:THR:HG23	1.93	0.51
1:Q:92:HIS:CG	1:Q:239:TRP:CB	2.94	0.51
1:Q:218:HIS:HE1	1:Q:255:ASN:H	1.57	0.51
1:Q:313:LYS:O	1:Q:316:SER:OG	2.26	0.51
1:Q:607:ARG:NH1	1:Q:642:THR:OG1	2.44	0.51
1:S:607:ARG:NH1	1:S:642:THR:OG1	2.44	0.51
1:S:621:TYR:CD2	1:d:251:GLU:HB2	2.46	0.51
1:X:237:LEU:HD22	1:X:238:THR:HG23	1.93	0.51
1:e:313:LYS:O	1:e:316:SER:OG	2.26	0.51
1:o:237:LEU:HD22	1:o:238:THR:HG23	1.93	0.51
1:y:96:LEU:H	1:y:96:LEU:CD2	2.03	0.51
1:4:237:LEU:HD22	1:4:238:THR:HG23	1.93	0.51
1:6:607:ARG:NH1	1:6:642:THR:OG1	2.44	0.51
1:7:92:HIS:CG	1:7:239:TRP:CB	2.94	0.51
1:A:45:PHE:HB3	1:E:265:ILE:HB	1.93	0.50
1:B:100:PHE:O	1:B:225:ARG:NH1	2.38	0.50
1:B:192:THR:H	1:B:556:GLN:NE2	2.06	0.50
1:I:607:ARG:NH1	1:I:642:THR:OG1	2.44	0.50
1:P:621:TYR:CD2	1:Q:251:GLU:HB2	2.46	0.50
1:R:92:HIS:CG	1:R:239:TRP:CB	2.94	0.50
1:Y:607:ARG:NH1	1:Y:642:THR:OG1	2.44	0.50
1:c:313:LYS:O	1:c:316:SER:OG	2.26	0.50
1:g:607:ARG:NH1	1:g:642:THR:OG1	2.44	0.50
1:h:614:GLY:HA3	1:h:620:LYS:H	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:607:ARG:NH1	1:i:642:THR:OG1	2.44	0.50
1:q:92:HIS:CG	1:q:239:TRP:CB	2.94	0.50
1:u:607:ARG:NH1	1:u:642:THR:OG1	2.44	0.50
1:x:218:HIS:HE1	1:x:255:ASN:H	1.57	0.50
1:z:237:LEU:HD22	1:z:238:THR:HG23	1.93	0.50
1:z:607:ARG:NH1	1:z:642:THR:OG1	2.44	0.50
1:F:237:LEU:HD22	1:F:238:THR:HG23	1.93	0.50
1:J:607:ARG:NH1	1:J:642:THR:OG1	2.44	0.50
1:L:607:ARG:NH1	1:L:642:THR:OG1	2.44	0.50
1:O:237:LEU:HD22	1:O:238:THR:HG23	1.93	0.50
1:V:100:PHE:O	1:V:225:ARG:NH1	2.38	0.50
1:Y:92:HIS:CG	1:Y:239:TRP:CB	2.94	0.50
1:Z:92:HIS:CG	1:Z:239:TRP:CB	2.94	0.50
1:b:237:LEU:HD22	1:b:238:THR:HG23	1.93	0.50
1:j:621:TYR:CD2	1:x:251:GLU:HB2	2.46	0.50
1:l:237:LEU:HD22	1:l:238:THR:HG23	1.93	0.50
1:n:251:GLU:HB2	1:r:621:TYR:CD2	2.46	0.50
1:y:237:LEU:HD22	1:y:238:THR:HG23	1.93	0.50
1:7:607:ARG:NH1	1:7:642:THR:OG1	2.44	0.50
1:8:92:HIS:CG	1:8:239:TRP:CB	2.94	0.50
1:A:251:GLU:HB2	1:B:621:TYR:CD2	2.46	0.50
1:H:621:TYR:CD2	1:I:251:GLU:HB2	2.46	0.50
1:c:92:HIS:CG	1:c:239:TRP:CB	2.94	0.50
1:f:237:LEU:HD22	1:f:238:THR:HG23	1.93	0.50
1:u:251:GLU:HB2	1:5:621:TYR:CD2	2.46	0.50
1:x:237:LEU:HD22	1:x:238:THR:HG23	1.93	0.50
1:y:100:PHE:O	1:y:225:ARG:NH1	2.38	0.50
1:2:607:ARG:NH1	1:2:642:THR:OG1	2.44	0.50
1:D:237:LEU:HD22	1:D:238:THR:HG23	1.94	0.50
1:F:251:GLU:HB2	1:R:621:TYR:CD2	2.46	0.50
1:J:621:TYR:CD2	1:a:251:GLU:HB2	2.46	0.50
1:L:92:HIS:CG	1:L:239:TRP:CB	2.94	0.50
1:N:607:ARG:NH1	1:N:642:THR:OG1	2.44	0.50
1:O:621:TYR:CD2	1:P:251:GLU:HB2	2.46	0.50
1:Q:237:LEU:HD22	1:Q:238:THR:HG23	1.93	0.50
1:T:90:LYS:NZ	1:T:244:ASP:OD2	2.32	0.50
1:T:239:TRP:CE3	1:T:242:VAL:N	2.77	0.50
1:W:237:LEU:HD22	1:W:238:THR:HG23	1.93	0.50
1:W:614:GLY:HA3	1:W:620:LYS:H	1.74	0.50
1:Y:237:LEU:HD22	1:Y:238:THR:HG23	1.93	0.50
1:e:92:HIS:CG	1:e:239:TRP:CB	2.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:237:LEU:HD22	1:k:238:THR:HG23	1.94	0.50
1:l:251:GLU:HB2	1:n:621:TYR:CD2	2.46	0.50
1:m:90:LYS:NZ	1:m:244:ASP:OD2	2.32	0.50
1:m:239:TRP:CE3	1:m:242:VAL:N	2.77	0.50
1:x:313:LYS:O	1:x:316:SER:OG	2.26	0.50
1:z:92:HIS:CG	1:z:239:TRP:CB	2.94	0.50
1:1:90:LYS:NZ	1:1:244:ASP:OD2	2.32	0.50
1:5:92:HIS:CG	1:5:239:TRP:CB	2.94	0.50
1:8:194:ALA:HB1	1:8:199:GLU:O	2.10	0.50
1:F:100:PHE:O	1:F:225:ARG:NH1	2.38	0.50
1:H:92:HIS:CG	1:H:239:TRP:CB	2.94	0.50
1:I:614:GLY:HA3	1:I:620:LYS:H	1.74	0.50
1:M:92:HIS:CG	1:M:239:TRP:CB	2.94	0.50
1:O:251:GLU:HB2	1:d:621:TYR:CD2	2.46	0.50
1:g:192:THR:H	1:g:556:GLN:NE2	2.06	0.50
1:h:92:HIS:CG	1:h:239:TRP:CB	2.94	0.50
1:q:621:TYR:CD2	1:y:251:GLU:HB2	2.46	0.50
1:z:192:THR:H	1:z:556:GLN:NE2	2.06	0.50
1:2:621:TYR:CD2	1:3:251:GLU:HB2	2.46	0.50
1:6:237:LEU:HD22	1:6:238:THR:HG23	1.94	0.50
1:L:192:THR:H	1:L:556:GLN:NE2	2.06	0.50
1:O:313:LYS:O	1:O:316:SER:OG	2.26	0.50
1:R:218:HIS:HE1	1:R:255:ASN:H	1.57	0.50
1:T:621:TYR:CD2	1:U:251:GLU:HB2	2.46	0.50
1:U:313:LYS:O	1:U:316:SER:OG	2.26	0.50
1:X:265:ILE:HB	1:f:45:PHE:HB3	1.93	0.50
1:Y:313:LYS:O	1:Y:316:SER:OG	2.26	0.50
1:Z:194:ALA:HB1	1:Z:199:GLU:O	2.10	0.50
1:j:251:GLU:HB2	1:l:621:TYR:CD2	2.46	0.50
1:q:218:HIS:HE1	1:q:255:ASN:H	1.57	0.50
1:4:92:HIS:CG	1:4:239:TRP:CB	2.94	0.50
1:6:614:GLY:HA3	1:6:620:LYS:H	1.74	0.50
1:A:265:ILE:HB	1:B:45:PHE:HB3	1.94	0.50
1:C:192:THR:H	1:C:556:GLN:NE2	2.06	0.50
1:F:92:HIS:CG	1:F:239:TRP:CB	2.94	0.50
1:K:402:THR:O	1:K:403:ARG:NH2	2.44	0.50
1:L:402:THR:O	1:L:403:ARG:NH2	2.44	0.50
1:k:313:LYS:O	1:k:316:SER:OG	2.26	0.50
1:l:313:LYS:O	1:l:316:SER:OG	2.26	0.50
1:n:607:ARG:NH1	1:n:642:THR:OG1	2.44	0.50
1:u:614:GLY:HA3	1:u:620:LYS:H	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:92:HIS:CG	1:y:239:TRP:CB	2.94	0.50
1:z:402:THR:O	1:z:403:ARG:NH2	2.44	0.50
1:7:237:LEU:HD22	1:7:238:THR:HG23	1.94	0.50
1:C:239:TRP:CE3	1:C:242:VAL:N	2.77	0.50
1:G:239:TRP:CE3	1:G:242:VAL:N	2.77	0.50
1:J:192:THR:H	1:J:556:GLN:NE2	2.06	0.50
1:K:92:HIS:CG	1:K:239:TRP:CB	2.94	0.50
1:K:192:THR:H	1:K:556:GLN:NE2	2.06	0.50
1:L:100:PHE:O	1:L:225:ARG:NH1	2.38	0.50
1:O:239:TRP:CE3	1:O:242:VAL:N	2.77	0.50
1:S:239:TRP:CE3	1:S:242:VAL:N	2.77	0.50
1:g:239:TRP:CE3	1:g:242:VAL:N	2.77	0.50
1:m:621:TYR:CD2	1:s:251:GLU:HB2	2.46	0.50
1:r:239:TRP:CE3	1:r:242:VAL:N	2.77	0.50
1:t:265:ILE:HB	1:y:45:PHE:HB3	1.94	0.50
1:2:192:THR:H	1:2:556:GLN:NE2	2.06	0.50
1:4:192:THR:H	1:4:556:GLN:NE2	2.06	0.50
1:7:313:LYS:O	1:7:316:SER:OG	2.26	0.50
1:A:621:TYR:CD2	1:E:251:GLU:HB2	2.46	0.50
1:D:313:LYS:O	1:D:316:SER:OG	2.26	0.50
1:F:45:PHE:HB3	1:G:265:ILE:HB	1.94	0.50
1:I:237:LEU:HD22	1:I:238:THR:HG23	1.93	0.50
1:W:92:HIS:CG	1:W:239:TRP:CB	2.94	0.50
1:c:237:LEU:HD22	1:c:238:THR:HG23	1.93	0.50
1:s:92:HIS:CG	1:s:239:TRP:CB	2.94	0.50
1:s:313:LYS:O	1:s:316:SER:OG	2.26	0.50
1:u:237:LEU:HD22	1:u:238:THR:HG23	1.93	0.50
1:v:45:PHE:HB3	1:w:265:ILE:HB	1.94	0.50
1:w:92:HIS:CG	1:w:239:TRP:CB	2.94	0.50
1:4:402:THR:O	1:4:403:ARG:NH2	2.44	0.50
1:6:92:HIS:CG	1:6:239:TRP:CB	2.94	0.50
1:E:92:HIS:CG	1:E:239:TRP:CB	2.94	0.49
1:J:92:HIS:CG	1:J:239:TRP:CB	2.94	0.49
1:T:192:THR:H	1:T:556:GLN:NE2	2.06	0.49
1:V:251:GLU:HB2	1:W:621:TYR:CD2	2.46	0.49
1:b:92:HIS:CG	1:b:239:TRP:CB	2.94	0.49
1:d:607:ARG:NH1	1:d:642:THR:OG1	2.44	0.49
1:e:237:LEU:HD22	1:e:238:THR:HG23	1.94	0.49
1:m:92:HIS:CG	1:m:239:TRP:CB	2.94	0.49
1:m:192:THR:H	1:m:556:GLN:NE2	2.06	0.49
1:t:239:TRP:CE3	1:t:242:VAL:N	2.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:621:TYR:CD2	1:w:251:GLU:HB2	2.47	0.49
1:2:92:HIS:CG	1:2:239:TRP:CB	2.94	0.49
1:3:237:LEU:HD22	1:3:238:THR:HG23	1.93	0.49
1:B:265:ILE:HB	1:C:45:PHE:HB3	1.95	0.49
1:B:402:THR:O	1:B:403:ARG:NH2	2.44	0.49
1:H:45:PHE:HB3	1:I:265:ILE:HB	1.94	0.49
1:M:192:THR:H	1:M:556:GLN:NE2	2.06	0.49
1:O:45:PHE:HB3	1:P:265:ILE:HB	1.94	0.49
1:R:237:LEU:HD22	1:R:238:THR:HG23	1.93	0.49
1:R:265:ILE:HB	1:V:45:PHE:HB3	1.95	0.49
1:U:92:HIS:CG	1:U:239:TRP:CB	2.94	0.49
1:U:237:LEU:HD22	1:U:238:THR:HG23	1.93	0.49
1:Y:621:TYR:HA	1:Y:624:GLN:HG2	1.95	0.49
1:a:139:SER:HB3	1:a:597:SER:HA	1.94	0.49
1:a:237:LEU:HD22	1:a:238:THR:HG23	1.93	0.49
1:j:265:ILE:HB	1:l:45:PHE:HB3	1.94	0.49
1:p:45:PHE:HB3	1:q:265:ILE:HB	1.95	0.49
1:p:251:GLU:HB2	1:6:621:TYR:CD2	2.46	0.49
1:u:265:ILE:HB	1:5:45:PHE:HB3	1.94	0.49
1:v:265:ILE:HB	1:1:45:PHE:HB3	1.95	0.49
1:3:139:SER:HB3	1:3:597:SER:HA	1.94	0.49
1:B:139:SER:HB3	1:B:597:SER:HA	1.94	0.49
1:G:237:LEU:HD22	1:G:238:THR:HG23	1.93	0.49
1:K:621:TYR:HA	1:K:624:GLN:HG2	1.95	0.49
1:T:92:HIS:CG	1:T:239:TRP:CB	2.94	0.49
1:X:139:SER:HB3	1:X:597:SER:HA	1.94	0.49
1:f:92:HIS:CG	1:f:239:TRP:CB	2.94	0.49
1:g:45:PHE:HB3	1:1:265:ILE:HB	1.95	0.49
1:h:192:THR:H	1:h:556:GLN:NE2	2.06	0.49
1:o:139:SER:HB3	1:o:597:SER:HA	1.94	0.49
1:q:237:LEU:HD22	1:q:238:THR:HG23	1.93	0.49
1:s:237:LEU:HD22	1:s:238:THR:HG23	1.93	0.49
1:z:100:PHE:O	1:z:225:ARG:NH1	2.38	0.49
1:1:402:THR:O	1:1:403:ARG:NH2	2.44	0.49
1:7:621:TYR:HA	1:7:624:GLN:HG2	1.95	0.49
1:B:92:HIS:CG	1:B:239:TRP:CB	2.94	0.49
1:C:237:LEU:HD22	1:C:238:THR:HG23	1.93	0.49
1:G:139:SER:HB3	1:G:597:SER:HA	1.94	0.49
1:N:237:LEU:HD22	1:N:238:THR:HG23	1.93	0.49
1:O:336:HIS:HE1	1:m:402:THR:HG21	1.78	0.49
1:P:139:SER:HB3	1:P:597:SER:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:237:LEU:HD22	1:S:238:THR:HG23	1.93	0.49
1:Z:621:TYR:HA	1:Z:624:GLN:HG2	1.95	0.49
1:b:313:LYS:O	1:b:316:SER:OG	2.26	0.49
1:i:237:LEU:HD22	1:i:238:THR:HG23	1.93	0.49
1:j:139:SER:HB3	1:j:597:SER:HA	1.94	0.49
1:n:139:SER:HB3	1:n:597:SER:HA	1.94	0.49
1:t:139:SER:HB3	1:t:597:SER:HA	1.94	0.49
1:t:237:LEU:HD22	1:t:238:THR:HG23	1.93	0.49
1:u:139:SER:HB3	1:u:597:SER:HA	1.94	0.49
1:1:92:HIS:CG	1:1:239:TRP:CB	2.94	0.49
1:1:139:SER:HB3	1:1:597:SER:HA	1.94	0.49
1:4:621:TYR:HA	1:4:624:GLN:HG2	1.95	0.49
1:A:621:TYR:HA	1:A:624:GLN:HG2	1.95	0.49
1:H:336:HIS:HE1	1:W:402:THR:HG21	1.78	0.49
1:I:139:SER:HB3	1:I:597:SER:HA	1.94	0.49
1:K:45:PHE:HB3	1:L:265:ILE:HB	1.95	0.49
1:L:139:SER:HB3	1:L:597:SER:HA	1.94	0.49
1:L:621:TYR:HA	1:L:624:GLN:HG2	1.95	0.49
1:M:237:LEU:HD22	1:M:238:THR:HG23	1.93	0.49
1:Q:402:THR:O	1:Q:403:ARG:NH2	2.44	0.49
1:T:402:THR:HG21	1:l:336:HIS:HE1	1.78	0.49
1:X:621:TYR:HA	1:X:624:GLN:HG2	1.95	0.49
1:b:621:TYR:HA	1:b:624:GLN:HG2	1.95	0.49
1:f:621:TYR:HA	1:f:624:GLN:HG2	1.95	0.49
1:g:237:LEU:HD22	1:g:238:THR:HG23	1.93	0.49
1:h:237:LEU:HD22	1:h:238:THR:HG23	1.93	0.49
1:q:621:TYR:HA	1:q:624:GLN:HG2	1.95	0.49
1:x:139:SER:HB3	1:x:597:SER:HA	1.94	0.49
1:x:402:THR:O	1:x:403:ARG:NH2	2.44	0.49
1:z:139:SER:HB3	1:z:597:SER:HA	1.94	0.49
1:8:313:LYS:O	1:8:316:SER:OG	2.26	0.49
1:A:237:LEU:HD22	1:A:238:THR:HG23	1.93	0.49
1:B:239:TRP:CE3	1:B:242:VAL:N	2.77	0.49
1:B:621:TYR:HA	1:B:624:GLN:HG2	1.95	0.49
1:E:237:LEU:HD22	1:E:238:THR:HG23	1.93	0.49
1:F:139:SER:HB3	1:F:597:SER:HA	1.94	0.49
1:H:265:ILE:HB	1:Z:45:PHE:HB3	1.94	0.49
1:N:45:PHE:HB3	1:m:265:ILE:HB	1.94	0.49
1:N:621:TYR:HA	1:N:624:GLN:HG2	1.95	0.49
1:O:621:TYR:HA	1:O:624:GLN:HG2	1.95	0.49
1:P:45:PHE:HB3	1:Q:265:ILE:HB	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:139:SER:HB3	1:Q:597:SER:HA	1.94	0.49
1:R:621:TYR:HA	1:R:624:GLN:HG2	1.95	0.49
1:S:45:PHE:HB3	1:d:265:ILE:HB	1.95	0.49
1:W:239:TRP:CE3	1:W:242:VAL:N	2.77	0.49
1:d:139:SER:HB3	1:d:597:SER:HA	1.95	0.49
1:e:45:PHE:HB3	1:h:265:ILE:HB	1.95	0.49
1:g:621:TYR:HA	1:g:624:GLN:HG2	1.95	0.49
1:i:621:TYR:HA	1:i:624:GLN:HG2	1.95	0.49
1:j:45:PHE:HB3	1:x:265:ILE:HB	1.94	0.49
1:o:621:TYR:HA	1:o:624:GLN:HG2	1.95	0.49
1:r:237:LEU:HD22	1:r:238:THR:HG23	1.93	0.49
1:v:237:LEU:HD22	1:v:238:THR:HG23	1.93	0.49
1:y:139:SER:HB3	1:y:597:SER:HA	1.94	0.49
1:z:265:ILE:HB	1:4:45:PHE:HB3	1.95	0.49
1:z:621:TYR:HA	1:z:624:GLN:HG2	1.95	0.49
1:1:239:TRP:CE3	1:1:242:VAL:N	2.77	0.49
1:1:621:TYR:HA	1:1:624:GLN:HG2	1.95	0.49
1:2:45:PHE:HB3	1:3:265:ILE:HB	1.94	0.49
1:2:237:LEU:HD22	1:2:238:THR:HG23	1.93	0.49
1:8:621:TYR:HA	1:8:624:GLN:HG2	1.95	0.49
1:H:139:SER:HB3	1:H:597:SER:HA	1.94	0.49
1:J:237:LEU:HD22	1:J:238:THR:HG23	1.93	0.49
1:K:139:SER:HB3	1:K:597:SER:HA	1.94	0.49
1:M:265:ILE:HB	1:c:45:PHE:HB3	1.95	0.49
1:P:207:ARG:NH1	1:P:408:ARG:HH22	2.11	0.49
1:P:621:TYR:HA	1:P:624:GLN:HG2	1.95	0.49
1:Q:207:ARG:NH1	1:Q:408:ARG:HH22	2.11	0.49
1:T:336:HIS:HE1	1:d:402:THR:HG21	1.78	0.49
1:U:621:TYR:HA	1:U:624:GLN:HG2	1.95	0.49
1:V:139:SER:HB3	1:V:597:SER:HA	1.94	0.49
1:Z:237:LEU:HD22	1:Z:238:THR:HG23	1.94	0.49
1:d:92:HIS:CG	1:d:239:TRP:CB	2.94	0.49
1:j:207:ARG:NH1	1:j:408:ARG:HH22	2.11	0.49
1:j:621:TYR:HA	1:j:624:GLN:HG2	1.95	0.49
1:l:621:TYR:HA	1:l:624:GLN:HG2	1.95	0.49
1:m:336:HIS:HE1	1:n:402:THR:HG21	1.78	0.49
1:n:265:ILE:HB	1:r:45:PHE:HB3	1.95	0.49
1:n:313:LYS:O	1:n:316:SER:OG	2.26	0.49
1:t:251:GLU:HB2	1:y:621:TYR:CD2	2.47	0.49
1:u:621:TYR:HA	1:u:624:GLN:HG2	1.95	0.49
1:v:621:TYR:HA	1:v:624:GLN:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:237:LEU:HD22	1:w:238:THR:HG23	1.93	0.49
1:x:96:LEU:H	1:x:96:LEU:CD2	2.03	0.49
1:x:207:ARG:NH1	1:x:408:ARG:HH22	2.11	0.49
1:4:139:SER:HB3	1:4:597:SER:HA	1.94	0.49
1:5:237:LEU:HD22	1:5:238:THR:HG23	1.93	0.49
1:5:265:ILE:HB	1:8:45:PHE:HB3	1.94	0.49
1:6:239:TRP:CE3	1:6:242:VAL:N	2.77	0.49
1:8:237:LEU:HD22	1:8:238:THR:HG23	1.93	0.49
1:A:139:SER:HB3	1:A:597:SER:HA	1.94	0.49
1:C:621:TYR:HA	1:C:624:GLN:HG2	1.95	0.49
1:F:163:GLN:OE1	1:F:163:GLN:HA	2.13	0.49
1:F:621:TYR:CD2	1:G:251:GLU:HB2	2.47	0.49
1:H:237:LEU:HD22	1:H:238:THR:HG23	1.93	0.49
1:H:621:TYR:HA	1:H:624:GLN:HG2	1.95	0.49
1:I:621:TYR:HA	1:I:624:GLN:HG2	1.95	0.49
1:J:45:PHE:HB3	1:a:265:ILE:HB	1.95	0.49
1:O:139:SER:HB3	1:O:597:SER:HA	1.94	0.49
1:T:237:LEU:HD22	1:T:238:THR:HG23	1.93	0.49
1:T:265:ILE:HB	1:i:45:PHE:HB3	1.94	0.49
1:V:207:ARG:NH1	1:V:408:ARG:HH22	2.11	0.49
1:X:45:PHE:HB3	1:Y:265:ILE:HB	1.95	0.49
1:X:207:ARG:NH1	1:X:408:ARG:HH22	2.11	0.49
1:Y:239:TRP:CH2	1:Y:242:VAL:CA	2.71	0.49
1:a:163:GLN:OE1	1:a:163:GLN:HA	2.13	0.49
1:f:313:LYS:O	1:f:316:SER:OG	2.26	0.49
1:o:45:PHE:HB3	1:7:265:ILE:HB	1.95	0.49
1:p:139:SER:HB3	1:p:597:SER:HA	1.94	0.49
1:p:207:ARG:NH1	1:p:408:ARG:HH22	2.11	0.49
1:s:621:TYR:HA	1:s:624:GLN:HG2	1.95	0.49
1:v:139:SER:HB3	1:v:597:SER:HA	1.94	0.49
1:x:336:HIS:HE1	1:y:402:THR:HG21	1.78	0.49
1:3:163:GLN:OE1	1:3:163:GLN:HA	2.13	0.49
1:5:139:SER:HB3	1:5:597:SER:HA	1.94	0.49
1:E:163:GLN:OE1	1:E:163:GLN:HA	2.13	0.49
1:F:402:THR:HG21	1:Q:336:HIS:HE1	1.78	0.49
1:I:45:PHE:HB3	1:J:265:ILE:HB	1.95	0.49
1:S:139:SER:HB3	1:S:597:SER:HA	1.94	0.49
1:V:163:GLN:OE1	1:V:163:GLN:HA	2.13	0.49
1:Y:139:SER:HB3	1:Y:597:SER:HA	1.94	0.49
1:e:163:GLN:OE1	1:e:163:GLN:HA	2.13	0.49
1:l:139:SER:HB3	1:l:597:SER:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:237:LEU:HD22	1:m:238:THR:HG23	1.93	0.49
1:n:92:HIS:CG	1:n:239:TRP:CB	2.94	0.49
1:n:237:LEU:HD22	1:n:238:THR:HG23	1.93	0.49
1:o:207:ARG:NH1	1:o:408:ARG:HH22	2.11	0.49
1:p:163:GLN:OE1	1:p:163:GLN:HA	2.13	0.49
1:w:163:GLN:OE1	1:w:163:GLN:HA	2.13	0.49
1:y:163:GLN:OE1	1:y:163:GLN:HA	2.13	0.49
1:5:336:HIS:HE1	1:6:402:THR:HG21	1.78	0.49
1:5:621:TYR:HA	1:5:624:GLN:HG2	1.95	0.49
1:7:139:SER:HB3	1:7:597:SER:HA	1.94	0.49
1:D:139:SER:HB3	1:D:597:SER:HA	1.94	0.49
1:P:237:LEU:HD22	1:P:238:THR:HG23	1.93	0.49
1:X:621:TYR:HD2	1:Y:251:GLU:HB2	1.78	0.49
1:c:163:GLN:OE1	1:c:163:GLN:HA	2.13	0.49
1:e:621:TYR:HA	1:e:624:GLN:HG2	1.95	0.49
1:i:207:ARG:NH1	1:i:408:ARG:HH22	2.11	0.49
1:j:237:LEU:HD22	1:j:238:THR:HG23	1.93	0.49
1:l:265:ILE:HB	1:n:45:PHE:HB3	1.94	0.49
1:m:207:ARG:NH1	1:m:408:ARG:HH22	2.11	0.49
1:r:139:SER:HB3	1:r:597:SER:HA	1.94	0.49
1:t:207:ARG:NH1	1:t:408:ARG:HH22	2.11	0.49
1:t:402:THR:O	1:t:403:ARG:NH2	2.44	0.49
1:u:45:PHE:HB3	1:2:265:ILE:HB	1.95	0.49
1:u:207:ARG:NH1	1:u:408:ARG:HH22	2.11	0.49
1:2:402:THR:O	1:2:403:ARG:NH2	2.44	0.49
1:6:402:THR:O	1:6:403:ARG:NH2	2.44	0.49
1:A:207:ARG:NH1	1:A:408:ARG:HH22	2.11	0.48
1:C:402:THR:O	1:C:403:ARG:NH2	2.44	0.48
1:F:621:TYR:HA	1:F:624:GLN:HG2	1.95	0.48
1:G:207:ARG:NH1	1:G:408:ARG:HH22	2.11	0.48
1:I:207:ARG:NH1	1:I:408:ARG:HH22	2.11	0.48
1:N:207:ARG:NH1	1:N:408:ARG:HH22	2.11	0.48
1:O:207:ARG:NH1	1:O:408:ARG:HH22	2.11	0.48
1:O:265:ILE:HB	1:d:45:PHE:HB3	1.94	0.48
1:R:207:ARG:NH1	1:R:408:ARG:HH22	2.11	0.48
1:T:207:ARG:NH1	1:T:408:ARG:HH22	2.11	0.48
1:V:92:HIS:CG	1:V:239:TRP:CB	2.94	0.48
1:W:90:LYS:NZ	1:W:244:ASP:OD2	2.32	0.48
1:X:101:PHE:CE2	1:e:349:MET:HE1	2.48	0.48
1:Y:163:GLN:OE1	1:Y:163:GLN:HA	2.13	0.48
1:Z:349:MET:HE1	1:4:101:PHE:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:621:TYR:HA	1:c:624:GLN:HG2	1.95	0.48
1:d:237:LEU:HD22	1:d:238:THR:HG23	1.93	0.48
1:g:402:THR:O	1:g:403:ARG:NH2	2.44	0.48
1:k:139:SER:HB3	1:k:597:SER:HA	1.94	0.48
1:k:192:THR:H	1:k:556:GLN:NE2	2.06	0.48
1:m:621:TYR:HA	1:m:624:GLN:HG2	1.95	0.48
1:t:313:LYS:O	1:t:316:SER:OG	2.26	0.48
1:y:621:TYR:HA	1:y:624:GLN:HG2	1.95	0.48
1:7:163:GLN:OE1	1:7:163:GLN:HA	2.13	0.48
1:B:268:LEU:HD22	1:B:272:ASP:HB3	1.96	0.48
1:C:265:ILE:HB	1:D:45:PHE:HB3	1.94	0.48
1:G:313:LYS:O	1:G:316:SER:OG	2.26	0.48
1:G:402:THR:O	1:G:403:ARG:NH2	2.44	0.48
1:H:268:LEU:HD22	1:H:272:ASP:HB3	1.96	0.48
1:I:163:GLN:OE1	1:I:163:GLN:HA	2.13	0.48
1:K:101:PHE:CE2	1:8:349:MET:HE1	2.48	0.48
1:O:402:THR:O	1:O:403:ARG:NH2	2.44	0.48
1:U:48:THR:HG22	1:e:261:ASN:O	2.14	0.48
1:U:192:THR:H	1:U:556:GLN:NE2	2.06	0.48
1:V:237:LEU:HD22	1:V:238:THR:HG23	1.93	0.48
1:W:207:ARG:NH1	1:W:408:ARG:HH22	2.11	0.48
1:W:349:MET:HE1	1:Y:101:PHE:CE2	2.48	0.48
1:W:402:THR:O	1:W:403:ARG:NH2	2.44	0.48
1:Z:163:GLN:OE1	1:Z:163:GLN:HA	2.13	0.48
1:c:261:ASN:O	1:s:48:THR:HG22	2.14	0.48
1:l:207:ARG:NH1	1:l:408:ARG:HH22	2.11	0.48
1:q:139:SER:HB3	1:q:597:SER:HA	1.94	0.48
1:q:207:ARG:NH1	1:q:408:ARG:HH22	2.11	0.48
1:s:192:THR:H	1:s:556:GLN:NE2	2.06	0.48
1:u:163:GLN:OE1	1:u:163:GLN:HA	2.13	0.48
1:u:349:MET:HE1	1:v:101:PHE:CE2	2.48	0.48
1:1:268:LEU:HD22	1:1:272:ASP:HB3	1.96	0.48
1:8:163:GLN:OE1	1:8:163:GLN:HA	2.13	0.48
1:A:101:PHE:CE2	1:I:349:MET:HE1	2.49	0.48
1:D:192:THR:H	1:D:556:GLN:NE2	2.06	0.48
1:J:402:THR:O	1:J:403:ARG:NH2	2.44	0.48
1:R:139:SER:HB3	1:R:597:SER:HA	1.94	0.48
1:T:139:SER:HB3	1:T:597:SER:HA	1.94	0.48
1:T:621:TYR:HA	1:T:624:GLN:HG2	1.95	0.48
1:a:207:ARG:NH1	1:a:408:ARG:HH22	2.11	0.48
1:b:45:PHE:HB3	1:o:265:ILE:HB	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:207:ARG:NH1	1:b:408:ARG:HH22	2.11	0.48
1:c:349:MET:HE1	1:o:101:PHE:CE2	2.49	0.48
1:f:139:SER:HB3	1:f:597:SER:HA	1.94	0.48
1:f:207:ARG:NH1	1:f:408:ARG:HH22	2.11	0.48
1:h:207:ARG:NH1	1:h:408:ARG:HH22	2.11	0.48
1:i:349:MET:HE1	1:j:101:PHE:CE2	2.48	0.48
1:m:48:THR:HG22	1:s:261:ASN:O	2.14	0.48
1:n:207:ARG:NH1	1:n:408:ARG:HH22	2.11	0.48
1:p:92:HIS:CG	1:p:239:TRP:CB	2.94	0.48
1:p:237:LEU:HD22	1:p:238:THR:HG23	1.93	0.48
1:p:265:ILE:HB	1:6:45:PHE:HB3	1.94	0.48
1:v:207:ARG:NH1	1:v:408:ARG:HH22	2.11	0.48
1:w:402:THR:HG21	1:y:336:HIS:HE1	1.78	0.48
1:z:268:LEU:HD22	1:z:272:ASP:HB3	1.96	0.48
1:z:349:MET:HE1	1:1:101:PHE:CE2	2.49	0.48
1:3:207:ARG:NH1	1:3:408:ARG:HH22	2.11	0.48
1:6:349:MET:HE1	1:7:101:PHE:CE2	2.49	0.48
1:A:402:THR:O	1:A:403:ARG:NH2	2.44	0.48
1:B:101:PHE:CE2	1:L:349:MET:HE1	2.49	0.48
1:D:402:THR:O	1:D:403:ARG:NH2	2.44	0.48
1:E:207:ARG:NH1	1:E:408:ARG:HH22	2.11	0.48
1:E:402:THR:HG21	1:F:336:HIS:HE1	1.78	0.48
1:F:268:LEU:HD22	1:F:272:ASP:HB3	1.96	0.48
1:J:139:SER:HB3	1:J:597:SER:HA	1.94	0.48
1:J:207:ARG:NH1	1:J:408:ARG:HH22	2.11	0.48
1:J:621:TYR:HA	1:J:624:GLN:HG2	1.95	0.48
1:K:349:MET:HE1	1:a:101:PHE:CE2	2.48	0.48
1:L:268:LEU:HD22	1:L:272:ASP:HB3	1.96	0.48
1:M:268:LEU:HD22	1:M:272:ASP:HB3	1.96	0.48
1:M:402:THR:O	1:M:403:ARG:NH2	2.44	0.48
1:N:349:MET:HE1	1:P:101:PHE:CE2	2.49	0.48
1:Q:96:LEU:H	1:Q:96:LEU:CD2	2.03	0.48
1:R:402:THR:O	1:R:403:ARG:NH2	2.44	0.48
1:T:48:THR:HG22	1:U:261:ASN:O	2.14	0.48
1:V:261:ASN:O	1:W:48:THR:HG22	2.14	0.48
1:V:265:ILE:HB	1:W:45:PHE:HB3	1.94	0.48
1:Y:207:ARG:NH1	1:Y:408:ARG:HH22	2.11	0.48
1:b:139:SER:HB3	1:b:597:SER:HA	1.94	0.48
1:c:139:SER:HB3	1:c:597:SER:HA	1.94	0.48
1:d:207:ARG:NH1	1:d:408:ARG:HH22	2.11	0.48
1:d:268:LEU:HD22	1:d:272:ASP:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:139:SER:HB3	1:e:597:SER:HA	1.94	0.48
1:g:48:THR:HG22	1:1:261:ASN:O	2.14	0.48
1:g:265:ILE:HB	1:k:45:PHE:HB3	1.94	0.48
1:h:163:GLN:OE1	1:h:163:GLN:HA	2.13	0.48
1:h:268:LEU:HD22	1:h:272:ASP:HB3	1.96	0.48
1:k:402:THR:O	1:k:403:ARG:NH2	2.44	0.48
1:m:45:PHE:HB3	1:s:265:ILE:HB	1.95	0.48
1:m:139:SER:HB3	1:m:597:SER:HA	1.94	0.48
1:n:261:ASN:O	1:r:48:THR:HG22	2.14	0.48
1:o:92:HIS:CG	1:o:239:TRP:CB	2.94	0.48
1:o:349:MET:HE1	1:p:101:PHE:CE2	2.48	0.48
1:r:207:ARG:NH1	1:r:408:ARG:HH22	2.11	0.48
1:s:139:SER:HB3	1:s:597:SER:HA	1.94	0.48
1:t:45:PHE:HB3	1:6:265:ILE:HB	1.95	0.48
1:v:402:THR:O	1:v:403:ARG:NH2	2.44	0.48
1:y:268:LEU:HD22	1:y:272:ASP:HB3	1.96	0.48
1:2:48:THR:HG22	1:3:261:ASN:O	2.14	0.48
1:2:139:SER:HB3	1:2:597:SER:HA	1.94	0.48
1:2:207:ARG:NH1	1:2:408:ARG:HH22	2.11	0.48
1:3:192:THR:H	1:3:556:GLN:NE2	2.06	0.48
1:5:268:LEU:HD22	1:5:272:ASP:HB3	1.96	0.48
1:6:207:ARG:NH1	1:6:408:ARG:HH22	2.11	0.48
1:7:207:ARG:NH1	1:7:408:ARG:HH22	2.11	0.48
1:8:139:SER:HB3	1:8:597:SER:HA	1.94	0.48
1:B:261:ASN:O	1:C:48:THR:HG22	2.14	0.48
1:D:92:HIS:CG	1:D:239:TRP:CB	2.94	0.48
1:E:101:PHE:CE2	1:F:349:MET:HE1	2.49	0.48
1:F:101:PHE:CE2	1:Q:349:MET:HE1	2.48	0.48
1:G:45:PHE:HB3	1:W:265:ILE:HB	1.95	0.48
1:H:261:ASN:O	1:Z:48:THR:HG22	2.14	0.48
1:J:48:THR:HG22	1:a:261:ASN:O	2.14	0.48
1:K:268:LEU:HD22	1:K:272:ASP:HB3	1.96	0.48
1:M:207:ARG:NH1	1:M:408:ARG:HH22	2.11	0.48
1:R:268:LEU:HD22	1:R:272:ASP:HB3	1.96	0.48
1:S:48:THR:HG22	1:d:261:ASN:O	2.14	0.48
1:S:207:ARG:NH1	1:S:408:ARG:HH22	2.11	0.48
1:T:45:PHE:HB3	1:U:265:ILE:HB	1.95	0.48
1:T:268:LEU:HD22	1:T:272:ASP:HB3	1.96	0.48
1:U:139:SER:HB3	1:U:597:SER:HA	1.94	0.48
1:X:48:THR:HG22	1:Y:261:ASN:O	2.14	0.48
1:X:313:LYS:O	1:X:316:SER:OG	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:349:MET:HE1	1:8:101:PHE:CE2	2.49	0.48
1:k:207:ARG:NH1	1:k:408:ARG:HH22	2.11	0.48
1:l:402:THR:O	1:l:403:ARG:NH2	2.44	0.48
1:n:268:LEU:HD22	1:n:272:ASP:HB3	1.96	0.48
1:q:268:LEU:HD22	1:q:272:ASP:HB3	1.96	0.48
1:q:402:THR:O	1:q:403:ARG:NH2	2.44	0.48
1:t:163:GLN:OE1	1:t:163:GLN:HA	2.13	0.48
1:v:261:ASN:O	1:1:48:THR:HG22	2.14	0.48
1:w:207:ARG:NH1	1:w:408:ARG:HH22	2.11	0.48
1:y:192:THR:H	1:y:556:GLN:NE2	2.06	0.48
1:3:101:PHE:CE2	1:4:349:MET:HE1	2.48	0.48
1:4:268:LEU:HD22	1:4:272:ASP:HB3	1.96	0.48
1:C:101:PHE:CE2	1:M:349:MET:HE1	2.48	0.48
1:C:207:ARG:NH1	1:C:408:ARG:HH22	2.11	0.48
1:H:349:MET:HE1	1:W:101:PHE:CE2	2.49	0.48
1:I:268:LEU:HD22	1:I:272:ASP:HB3	1.96	0.48
1:L:45:PHE:HB3	1:b:265:ILE:HB	1.95	0.48
1:M:163:GLN:OE1	1:M:163:GLN:HA	2.13	0.48
1:N:56:ASN:OD1	1:N:596:LEU:HD12	2.14	0.48
1:Q:48:THR:HG22	1:S:261:ASN:O	2.14	0.48
1:S:268:LEU:HD22	1:S:272:ASP:HB3	1.96	0.48
1:S:621:TYR:HA	1:S:624:GLN:HG2	1.95	0.48
1:U:56:ASN:OD1	1:U:596:LEU:HD12	2.14	0.48
1:U:163:GLN:OE1	1:U:163:GLN:HA	2.13	0.48
1:X:92:HIS:CG	1:X:239:TRP:CB	2.94	0.48
1:X:163:GLN:OE1	1:X:163:GLN:HA	2.13	0.48
1:Z:101:PHE:CE2	1:3:349:MET:HE1	2.49	0.48
1:Z:139:SER:HB3	1:Z:597:SER:HA	1.95	0.48
1:f:265:ILE:HB	1:z:45:PHE:HB3	1.95	0.48
1:h:139:SER:HB3	1:h:597:SER:HA	1.94	0.48
1:h:402:THR:O	1:h:403:ARG:NH2	2.44	0.48
1:i:92:HIS:CG	1:i:239:TRP:CB	2.94	0.48
1:k:621:TYR:HA	1:k:624:GLN:HG2	1.95	0.48
1:m:268:LEU:HD22	1:m:272:ASP:HB3	1.96	0.48
1:o:48:THR:HG22	1:7:261:ASN:O	2.14	0.48
1:p:261:ASN:O	1:6:48:THR:HG22	2.14	0.48
1:r:261:ASN:O	1:x:48:THR:HG22	2.14	0.48
1:r:621:TYR:HA	1:r:624:GLN:HG2	1.95	0.48
1:s:56:ASN:OD1	1:s:596:LEU:HD12	2.14	0.48
1:s:163:GLN:OE1	1:s:163:GLN:HA	2.13	0.48
1:w:101:PHE:CE2	1:y:349:MET:HE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:349:MET:HE1	1:y:101:PHE:CE2	2.48	0.48
1:1:207:ARG:NH1	1:1:408:ARG:HH22	2.11	0.48
1:2:163:GLN:OE1	1:2:163:GLN:HA	2.13	0.48
1:2:621:TYR:HA	1:2:624:GLN:HG2	1.95	0.48
1:5:261:ASN:O	1:8:48:THR:HG22	2.14	0.48
1:8:56:ASN:OD1	1:8:596:LEU:HD12	2.14	0.48
1:B:207:ARG:NH1	1:B:408:ARG:HH22	2.11	0.48
1:D:207:ARG:NH1	1:D:408:ARG:HH22	2.11	0.48
1:D:621:TYR:HA	1:D:624:GLN:HG2	1.95	0.48
1:E:139:SER:HB3	1:E:597:SER:HA	1.94	0.48
1:G:163:GLN:HA	1:G:163:GLN:OE1	2.13	0.48
1:G:288:LEU:O	1:G:640:ARG:HA	2.14	0.48
1:J:163:GLN:OE1	1:J:163:GLN:HA	2.13	0.48
1:K:261:ASN:O	1:7:48:THR:HG22	2.14	0.48
1:M:139:SER:HB3	1:M:597:SER:HA	1.94	0.48
1:P:48:THR:HG22	1:Q:261:ASN:O	2.14	0.48
1:T:402:THR:O	1:T:403:ARG:NH2	2.44	0.48
1:V:101:PHE:CE2	1:X:349:MET:HE1	2.49	0.48
1:X:268:LEU:HD22	1:X:272:ASP:HB3	1.96	0.48
1:X:288:LEU:O	1:X:640:ARG:HA	2.14	0.48
1:Y:48:THR:HG22	1:4:261:ASN:O	2.14	0.48
1:Z:56:ASN:OD1	1:Z:596:LEU:HD12	2.14	0.48
1:Z:261:ASN:O	1:a:48:THR:HG22	2.14	0.48
1:a:192:THR:H	1:a:556:GLN:NE2	2.06	0.48
1:e:48:THR:HG22	1:h:261:ASN:O	2.14	0.48
1:f:101:PHE:CE2	1:g:349:MET:HE1	2.48	0.48
1:f:261:ASN:O	1:z:48:THR:HG22	2.14	0.48
1:g:101:PHE:CE2	1:h:349:MET:HE1	2.48	0.48
1:h:48:THR:HG22	1:i:261:ASN:O	2.14	0.48
1:i:56:ASN:OD1	1:i:596:LEU:HD12	2.14	0.48
1:k:92:HIS:CG	1:k:239:TRP:CB	2.94	0.48
1:o:268:LEU:HD22	1:o:272:ASP:HB3	1.96	0.48
1:p:621:TYR:HA	1:p:624:GLN:HG2	1.95	0.48
1:r:268:LEU:HD22	1:r:272:ASP:HB3	1.96	0.48
1:t:349:MET:HE1	1:u:101:PHE:CE2	2.49	0.48
1:u:48:THR:HG22	1:2:261:ASN:O	2.14	0.48
1:u:268:LEU:HD22	1:u:272:ASP:HB3	1.96	0.48
1:x:621:TYR:HA	1:x:624:GLN:HG2	1.95	0.48
1:3:48:THR:HG22	1:8:261:ASN:O	2.14	0.48
1:3:402:THR:HG21	1:4:336:HIS:HE1	1.78	0.48
1:5:349:MET:HE1	1:6:101:PHE:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:163:GLN:OE1	1:6:163:GLN:HA	2.13	0.48
1:8:207:ARG:NH1	1:8:408:ARG:HH22	2.11	0.48
1:A:56:ASN:OD1	1:A:596:LEU:HD12	2.14	0.48
1:A:261:ASN:O	1:B:48:THR:HG22	2.14	0.48
1:C:56:ASN:OD1	1:C:596:LEU:HD12	2.14	0.48
1:C:349:MET:HE1	1:b:101:PHE:CE2	2.49	0.48
1:E:56:ASN:OD1	1:E:596:LEU:HD12	2.14	0.48
1:G:349:MET:HE1	1:I:101:PHE:CE2	2.49	0.48
1:I:48:THR:HG22	1:J:261:ASN:O	2.14	0.48
1:K:163:GLN:OE1	1:K:163:GLN:HA	2.13	0.48
1:K:265:ILE:HB	1:7:45:PHE:HB3	1.94	0.48
1:K:336:HIS:HE1	1:a:402:THR:HG21	1.78	0.48
1:L:48:THR:HG22	1:b:261:ASN:O	2.14	0.48
1:M:48:THR:HG22	1:N:261:ASN:O	2.14	0.48
1:M:101:PHE:CE2	1:b:349:MET:HE1	2.49	0.48
1:M:261:ASN:O	1:c:48:THR:HG22	2.14	0.48
1:N:92:HIS:CG	1:N:239:TRP:CB	2.94	0.48
1:Q:621:TYR:HA	1:Q:624:GLN:HG2	1.95	0.48
1:T:261:ASN:O	1:i:48:THR:HG22	2.14	0.48
1:V:621:TYR:HA	1:V:624:GLN:HG2	1.95	0.48
1:Y:45:PHE:HB3	1:4:265:ILE:HB	1.94	0.48
1:Y:268:LEU:HD22	1:Y:272:ASP:HB3	1.96	0.48
1:Z:207:ARG:NH1	1:Z:408:ARG:HH22	2.11	0.48
1:c:265:ILE:HB	1:s:45:PHE:HB3	1.95	0.48
1:g:207:ARG:NH1	1:g:408:ARG:HH22	2.11	0.48
1:k:265:ILE:HB	1:w:45:PHE:HB3	1.95	0.48
1:n:621:TYR:HA	1:n:624:GLN:HG2	1.95	0.48
1:o:163:GLN:OE1	1:o:163:GLN:HA	2.13	0.48
1:o:288:LEU:O	1:o:640:ARG:HA	2.14	0.48
1:t:48:THR:HG22	1:6:261:ASN:O	2.14	0.48
1:t:288:LEU:O	1:t:640:ARG:HA	2.14	0.48
1:v:56:ASN:OD1	1:v:596:LEU:HD12	2.14	0.48
1:w:56:ASN:OD1	1:w:596:LEU:HD12	2.14	0.48
1:w:139:SER:HB3	1:w:597:SER:HA	1.94	0.48
1:x:288:LEU:O	1:x:640:ARG:HA	2.14	0.48
1:5:402:THR:HG21	1:7:336:HIS:HE1	1.78	0.48
1:7:268:LEU:HD22	1:7:272:ASP:HB3	1.96	0.48
1:C:288:LEU:O	1:C:640:ARG:HA	2.14	0.48
1:E:336:HIS:HE1	1:Q:402:THR:HG21	1.78	0.48
1:F:192:THR:H	1:F:556:GLN:NE2	2.06	0.48
1:F:261:ASN:O	1:R:48:THR:HG22	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:48:THR:HG22	1:W:261:ASN:O	2.14	0.48
1:H:402:THR:HG21	1:Y:336:HIS:HE1	1.78	0.48
1:I:56:ASN:OD1	1:I:596:LEU:HD12	2.14	0.48
1:K:56:ASN:OD1	1:K:596:LEU:HD12	2.14	0.48
1:L:621:TYR:HD2	1:b:251:GLU:HB2	1.79	0.48
1:M:45:PHE:HB3	1:N:265:ILE:HB	1.95	0.48
1:N:48:THR:HG22	1:m:261:ASN:O	2.14	0.48
1:N:139:SER:HB3	1:N:597:SER:HA	1.94	0.48
1:N:336:HIS:HE1	1:P:402:THR:HG21	1.78	0.48
1:O:288:LEU:O	1:O:640:ARG:HA	2.14	0.48
1:Q:288:LEU:O	1:Q:640:ARG:HA	2.14	0.48
1:S:336:HIS:HE1	1:U:402:THR:HG21	1.78	0.48
1:U:45:PHE:HB3	1:e:265:ILE:HB	1.95	0.48
1:W:163:GLN:HA	1:W:163:GLN:OE1	2.13	0.48
1:X:148:GLN:HG3	1:X:276:THR:CG2	2.44	0.48
1:b:268:LEU:HD22	1:b:272:ASP:HB3	1.96	0.48
1:c:402:THR:HG21	1:p:336:HIS:HE1	1.78	0.48
1:d:148:GLN:HG3	1:d:276:THR:CG2	2.44	0.48
1:e:207:ARG:NH1	1:e:408:ARG:HH22	2.11	0.48
1:f:251:GLU:HB2	1:z:621:TYR:HD2	1.79	0.48
1:f:349:MET:HE1	1:h:101:PHE:CE2	2.49	0.48
1:g:56:ASN:OD1	1:g:596:LEU:HD12	2.14	0.48
1:g:288:LEU:O	1:g:640:ARG:HA	2.14	0.48
1:i:139:SER:HB3	1:i:597:SER:HA	1.94	0.48
1:i:336:HIS:HE1	1:j:402:THR:HG21	1.78	0.48
1:j:48:THR:HG22	1:x:261:ASN:O	2.14	0.48
1:j:192:THR:H	1:j:556:GLN:NE2	2.06	0.48
1:o:148:GLN:HG3	1:o:276:THR:CG2	2.44	0.48
1:q:56:ASN:OD1	1:q:596:LEU:HD12	2.14	0.48
1:r:336:HIS:HE1	1:s:402:THR:HG21	1.78	0.48
1:w:336:HIS:HE1	1:x:402:THR:HG21	1.78	0.48
1:1:349:MET:HE1	1:2:101:PHE:CE2	2.48	0.48
1:A:163:GLN:OE1	1:A:163:GLN:HA	2.13	0.48
1:B:288:LEU:O	1:B:640:ARG:HA	2.14	0.48
1:B:349:MET:HE1	1:J:101:PHE:CE2	2.48	0.48
1:C:92:HIS:CG	1:C:239:TRP:CB	2.94	0.48
1:D:402:THR:HG21	1:P:336:HIS:HE1	1.78	0.48
1:E:621:TYR:HA	1:E:624:GLN:HG2	1.95	0.48
1:F:265:ILE:HB	1:R:45:PHE:HB3	1.95	0.48
1:G:268:LEU:HD22	1:G:272:ASP:HB3	1.96	0.48
1:G:336:HIS:HE1	1:I:402:THR:HG21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:48:THR:HG22	1:I:261:ASN:O	2.14	0.48
1:H:56:ASN:OD1	1:H:596:LEU:HD12	2.14	0.48
1:J:56:ASN:OD1	1:J:596:LEU:HD12	2.14	0.48
1:L:163:GLN:OE1	1:L:163:GLN:HA	2.13	0.48
1:O:101:PHE:CE2	1:n:349:MET:HE1	2.48	0.48
1:P:192:THR:H	1:P:556:GLN:NE2	2.06	0.48
1:Q:621:TYR:HD2	1:S:251:GLU:HB2	1.79	0.48
1:R:56:ASN:OD1	1:R:596:LEU:HD12	2.14	0.48
1:T:163:GLN:OE1	1:T:163:GLN:HA	2.13	0.48
1:V:336:HIS:HE1	1:e:402:THR:HG21	1.78	0.48
1:V:349:MET:HE1	1:e:101:PHE:CE2	2.48	0.48
1:W:56:ASN:OD1	1:W:596:LEU:HD12	2.14	0.48
1:Z:251:GLU:HB2	1:a:621:TYR:HD2	1.79	0.48
1:c:207:ARG:NH1	1:c:408:ARG:HH22	2.11	0.48
1:d:621:TYR:HA	1:d:624:GLN:HG2	1.95	0.48
1:f:56:ASN:OD1	1:f:596:LEU:HD12	2.14	0.48
1:g:92:HIS:CG	1:g:239:TRP:CB	2.94	0.48
1:h:45:PHE:HB3	1:i:265:ILE:HB	1.95	0.48
1:j:336:HIS:HE1	1:k:402:THR:HG21	1.78	0.48
1:l:288:LEU:O	1:l:640:ARG:HA	2.14	0.48
1:m:402:THR:O	1:m:403:ARG:NH2	2.44	0.48
1:o:336:HIS:HE1	1:p:402:THR:HG21	1.78	0.48
1:o:621:TYR:HD2	1:7:251:GLU:HB2	1.79	0.48
1:q:45:PHE:HB3	1:y:265:ILE:HB	1.95	0.48
1:t:268:LEU:HD22	1:t:272:ASP:HB3	1.96	0.48
1:u:56:ASN:OD1	1:u:596:LEU:HD12	2.14	0.48
1:v:288:LEU:O	1:v:640:ARG:HA	2.14	0.48
1:z:163:GLN:HA	1:z:163:GLN:OE1	2.13	0.48
1:z:207:ARG:NH1	1:z:408:ARG:HH22	2.11	0.48
1:1:288:LEU:O	1:1:640:ARG:HA	2.14	0.48
1:2:56:ASN:OD1	1:2:596:LEU:HD12	2.14	0.48
1:3:45:PHE:HB3	1:8:265:ILE:HB	1.94	0.48
1:3:288:LEU:O	1:3:640:ARG:HA	2.14	0.48
1:3:621:TYR:HA	1:3:624:GLN:HG2	1.95	0.48
1:3:621:TYR:HD2	1:8:251:GLU:HB2	1.79	0.48
1:4:56:ASN:OD1	1:4:596:LEU:HD12	2.14	0.48
1:4:288:LEU:O	1:4:640:ARG:HA	2.14	0.48
1:5:56:ASN:OD1	1:5:596:LEU:HD12	2.14	0.48
1:A:268:LEU:HD22	1:A:272:ASP:HB3	1.96	0.47
1:C:139:SER:HB3	1:C:597:SER:HA	1.94	0.47
1:D:265:ILE:HB	1:E:45:PHE:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:251:GLU:HB2	1:R:621:TYR:HD2	1.79	0.47
1:H:163:GLN:OE1	1:H:163:GLN:HA	2.13	0.47
1:H:621:TYR:HD2	1:I:251:GLU:HB2	1.79	0.47
1:J:288:LEU:O	1:J:640:ARG:HA	2.14	0.47
1:L:207:ARG:NH1	1:L:408:ARG:HH22	2.11	0.47
1:L:288:LEU:O	1:L:640:ARG:HA	2.14	0.47
1:M:288:LEU:O	1:M:640:ARG:HA	2.14	0.47
1:O:163:GLN:HA	1:O:163:GLN:OE1	2.13	0.47
1:Q:45:PHE:HB3	1:S:265:ILE:HB	1.95	0.47
1:Q:56:ASN:OD1	1:Q:596:LEU:HD12	2.14	0.47
1:S:349:MET:HE1	1:U:101:PHE:CE2	2.49	0.47
1:X:56:ASN:OD1	1:X:596:LEU:HD12	2.14	0.47
1:Z:336:HIS:HE1	1:4:402:THR:HG21	1.78	0.47
1:a:621:TYR:HA	1:a:624:GLN:HG2	1.95	0.47
1:b:48:THR:HG22	1:o:261:ASN:O	2.14	0.47
1:c:56:ASN:OD1	1:c:596:LEU:HD12	2.14	0.47
1:d:349:MET:HE1	1:l:101:PHE:CE2	2.49	0.47
1:e:56:ASN:OD1	1:e:596:LEU:HD12	2.14	0.47
1:f:163:GLN:OE1	1:f:163:GLN:HA	2.13	0.47
1:f:268:LEU:HD22	1:f:272:ASP:HB3	1.96	0.47
1:g:139:SER:HB3	1:g:597:SER:HA	1.94	0.47
1:h:603:ASN:OD1	1:h:603:ASN:N	2.47	0.47
1:j:163:GLN:HA	1:j:163:GLN:OE1	2.13	0.47
1:o:56:ASN:OD1	1:o:596:LEU:HD12	2.14	0.47
1:q:48:THR:HG22	1:y:261:ASN:O	2.14	0.47
1:q:621:TYR:HD2	1:y:251:GLU:HB2	1.79	0.47
1:r:251:GLU:HB2	1:x:621:TYR:HD2	1.79	0.47
1:t:621:TYR:HA	1:t:624:GLN:HG2	1.95	0.47
1:u:261:ASN:O	1:5:48:THR:HG22	2.14	0.47
1:v:163:GLN:OE1	1:v:163:GLN:HA	2.13	0.47
1:v:268:LEU:HD22	1:v:272:ASP:HB3	1.96	0.47
1:w:621:TYR:HA	1:w:624:GLN:HG2	1.95	0.47
1:x:268:LEU:HD22	1:x:272:ASP:HB3	1.96	0.47
1:z:251:GLU:HB2	1:4:621:TYR:HD2	1.79	0.47
1:3:235:GLU:C	1:3:236:THR:HG22	2.40	0.47
1:4:163:GLN:HA	1:4:163:GLN:OE1	2.13	0.47
1:6:56:ASN:OD1	1:6:596:LEU:HD12	2.14	0.47
1:A:48:THR:HG22	1:E:261:ASN:O	2.15	0.47
1:A:288:LEU:O	1:A:640:ARG:HA	2.14	0.47
1:J:235:GLU:C	1:J:236:THR:HG22	2.40	0.47
1:J:349:MET:HE1	1:L:101:PHE:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:207:ARG:NH1	1:K:408:ARG:HH22	2.11	0.47
1:K:288:LEU:O	1:K:640:ARG:HA	2.14	0.47
1:K:621:TYR:HD2	1:L:251:GLU:HB2	1.79	0.47
1:M:603:ASN:OD1	1:M:603:ASN:N	2.47	0.47
1:M:621:TYR:HA	1:M:624:GLN:HG2	1.95	0.47
1:P:163:GLN:OE1	1:P:163:GLN:HA	2.13	0.47
1:U:207:ARG:NH1	1:U:408:ARG:HH22	2.11	0.47
1:V:56:ASN:OD1	1:V:596:LEU:HD12	2.14	0.47
1:W:603:ASN:N	1:W:603:ASN:OD1	2.47	0.47
1:W:621:TYR:HA	1:W:624:GLN:HG2	1.95	0.47
1:Y:148:GLN:HG3	1:Y:276:THR:CG2	2.44	0.47
1:Z:265:ILE:HB	1:a:45:PHE:HB3	1.94	0.47
1:a:235:GLU:C	1:a:236:THR:HG22	2.40	0.47
1:a:288:LEU:O	1:a:640:ARG:HA	2.14	0.47
1:b:56:ASN:OD1	1:b:596:LEU:HD12	2.14	0.47
1:b:192:THR:H	1:b:556:GLN:NE2	2.06	0.47
1:c:101:PHE:CE2	1:p:349:MET:HE1	2.49	0.47
1:d:179:LEU:HD11	1:d:559:VAL:HG22	1.97	0.47
1:h:288:LEU:O	1:h:640:ARG:HA	2.14	0.47
1:i:268:LEU:HD22	1:i:272:ASP:HB3	1.96	0.47
1:i:603:ASN:N	1:i:603:ASN:OD1	2.47	0.47
1:j:56:ASN:OD1	1:j:596:LEU:HD12	2.14	0.47
1:l:163:GLN:OE1	1:l:163:GLN:HA	2.13	0.47
1:l:235:GLU:C	1:l:236:THR:HG22	2.40	0.47
1:m:56:ASN:OD1	1:m:596:LEU:HD12	2.14	0.47
1:m:163:GLN:OE1	1:m:163:GLN:HA	2.13	0.47
1:q:288:LEU:O	1:q:640:ARG:HA	2.14	0.47
1:s:207:ARG:NH1	1:s:408:ARG:HH22	2.11	0.47
1:s:288:LEU:O	1:s:640:ARG:HA	2.14	0.47
1:t:336:HIS:HE1	1:u:402:THR:HG21	1.78	0.47
1:u:92:HIS:CG	1:u:239:TRP:CB	2.94	0.47
1:u:251:GLU:HB2	1:5:621:TYR:HD2	1.79	0.47
1:v:48:THR:HG22	1:w:261:ASN:O	2.14	0.47
1:x:56:ASN:OD1	1:x:596:LEU:HD12	2.14	0.47
1:y:288:LEU:O	1:y:640:ARG:HA	2.14	0.47
1:z:101:PHE:CE2	1:2:349:MET:HE1	2.48	0.47
1:2:235:GLU:C	1:2:236:THR:HG22	2.40	0.47
1:2:288:LEU:O	1:2:640:ARG:HA	2.14	0.47
1:2:603:ASN:OD1	1:2:603:ASN:N	2.47	0.47
1:6:139:SER:HB3	1:6:597:SER:HA	1.94	0.47
1:6:148:GLN:HG3	1:6:276:THR:CG2	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:621:TYR:HA	1:6:624:GLN:HG2	1.95	0.47
1:7:235:GLU:C	1:7:236:THR:HG22	2.40	0.47
1:A:179:LEU:HD11	1:A:559:VAL:HG22	1.97	0.47
1:B:235:GLU:C	1:B:236:THR:HG22	2.40	0.47
1:D:179:LEU:HD11	1:D:559:VAL:HG22	1.97	0.47
1:D:288:LEU:O	1:D:640:ARG:HA	2.14	0.47
1:D:349:MET:HE1	1:N:101:PHE:CE2	2.48	0.47
1:F:288:LEU:O	1:F:640:ARG:HA	2.14	0.47
1:F:621:TYR:HD2	1:G:251:GLU:HB2	1.80	0.47
1:G:56:ASN:OD1	1:G:596:LEU:HD12	2.14	0.47
1:G:621:TYR:HA	1:G:624:GLN:HG2	1.95	0.47
1:J:603:ASN:OD1	1:J:603:ASN:N	2.47	0.47
1:J:621:TYR:HD2	1:a:251:GLU:HB2	1.79	0.47
1:N:179:LEU:HD11	1:N:559:VAL:HG22	1.97	0.47
1:N:268:LEU:HD22	1:N:272:ASP:HB3	1.96	0.47
1:N:603:ASN:N	1:N:603:ASN:OD1	2.47	0.47
1:O:235:GLU:C	1:O:236:THR:HG22	2.40	0.47
1:P:56:ASN:OD1	1:P:596:LEU:HD12	2.14	0.47
1:P:288:LEU:O	1:P:640:ARG:HA	2.14	0.47
1:P:603:ASN:OD1	1:P:603:ASN:N	2.47	0.47
1:Q:268:LEU:HD22	1:Q:272:ASP:HB3	1.96	0.47
1:Q:603:ASN:N	1:Q:603:ASN:OD1	2.47	0.47
1:R:288:LEU:O	1:R:640:ARG:HA	2.14	0.47
1:T:56:ASN:OD1	1:T:596:LEU:HD12	2.14	0.47
1:T:349:MET:HE1	1:d:101:PHE:CE2	2.48	0.47
1:U:288:LEU:O	1:U:640:ARG:HA	2.14	0.47
1:W:139:SER:HB3	1:W:597:SER:HA	1.94	0.47
1:W:148:GLN:HG3	1:W:276:THR:CG2	2.44	0.47
1:Y:235:GLU:C	1:Y:236:THR:HG22	2.40	0.47
1:a:313:LYS:O	1:a:316:SER:OG	2.26	0.47
1:b:163:GLN:HA	1:b:163:GLN:OE1	2.13	0.47
1:b:603:ASN:OD1	1:b:603:ASN:N	2.47	0.47
1:g:239:TRP:CH2	1:g:242:VAL:CA	2.70	0.47
1:h:179:LEU:HD11	1:h:559:VAL:HG22	1.97	0.47
1:i:179:LEU:HD11	1:i:559:VAL:HG22	1.97	0.47
1:j:288:LEU:O	1:j:640:ARG:HA	2.14	0.47
1:k:288:LEU:O	1:k:640:ARG:HA	2.14	0.47
1:l:92:HIS:CG	1:l:239:TRP:CB	2.94	0.47
1:l:268:LEU:HD22	1:l:272:ASP:HB3	1.96	0.47
1:m:349:MET:HE1	1:n:101:PHE:CE2	2.48	0.47
1:n:179:LEU:HD11	1:n:559:VAL:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:402:THR:HG21	1:s:336:HIS:HE1	1.78	0.47
1:r:265:ILE:HB	1:x:45:PHE:HB3	1.95	0.47
1:r:349:MET:HE1	1:s:101:PHE:CE2	2.49	0.47
1:t:235:GLU:C	1:t:236:THR:HG22	2.40	0.47
1:t:251:GLU:HB2	1:y:621:TYR:HD2	1.80	0.47
1:v:179:LEU:HD11	1:v:559:VAL:HG22	1.97	0.47
1:w:402:THR:O	1:w:403:ARG:NH2	2.44	0.47
1:y:207:ARG:NH1	1:y:408:ARG:HH22	2.11	0.47
1:z:261:ASN:O	1:4:48:THR:HG22	2.14	0.47
1:z:288:LEU:O	1:z:640:ARG:HA	2.14	0.47
1:1:163:GLN:OE1	1:1:163:GLN:HA	2.13	0.47
1:1:235:GLU:C	1:1:236:THR:HG22	2.40	0.47
1:2:621:TYR:HD2	1:3:251:GLU:HB2	1.79	0.47
1:5:163:GLN:OE1	1:5:163:GLN:HA	2.13	0.47
1:6:603:ASN:N	1:6:603:ASN:OD1	2.47	0.47
1:7:148:GLN:HG3	1:7:276:THR:CG2	2.44	0.47
1:A:148:GLN:HG3	1:A:276:THR:CG2	2.44	0.47
1:A:621:TYR:HD2	1:E:251:GLU:HB2	1.79	0.47
1:B:163:GLN:OE1	1:B:163:GLN:HA	2.13	0.47
1:D:235:GLU:C	1:D:236:THR:HG22	2.40	0.47
1:E:268:LEU:HD22	1:E:272:ASP:HB3	1.96	0.47
1:G:235:GLU:C	1:G:236:THR:HG22	2.40	0.47
1:K:402:THR:HG21	1:8:336:HIS:HE1	1.78	0.47
1:M:179:LEU:HD11	1:M:559:VAL:HG22	1.97	0.47
1:O:92:HIS:CG	1:O:239:TRP:CB	2.94	0.47
1:O:268:LEU:HD22	1:O:272:ASP:HB3	1.96	0.47
1:O:603:ASN:OD1	1:O:603:ASN:N	2.47	0.47
1:P:268:LEU:HD22	1:P:272:ASP:HB3	1.95	0.47
1:Q:235:GLU:C	1:Q:236:THR:HG22	2.40	0.47
1:R:402:THR:HG21	1:U:336:HIS:HE1	1.78	0.47
1:R:413:ASP:H	1:R:633:GLU:HB3	1.80	0.47
1:S:56:ASN:OD1	1:S:596:LEU:HD12	2.14	0.47
1:T:603:ASN:N	1:T:603:ASN:OD1	2.47	0.47
1:V:288:LEU:O	1:V:640:ARG:HA	2.14	0.47
1:Z:179:LEU:HD11	1:Z:559:VAL:HG22	1.97	0.47
1:e:268:LEU:HD22	1:e:272:ASP:HB3	1.96	0.47
1:f:192:THR:H	1:f:556:GLN:NE2	2.06	0.47
1:h:621:TYR:HA	1:h:624:GLN:HG2	1.95	0.47
1:i:101:PHE:CE2	1:k:349:MET:HE1	2.48	0.47
1:j:148:GLN:HG3	1:j:276:THR:CG2	2.44	0.47
1:j:603:ASN:OD1	1:j:603:ASN:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:56:ASN:OD1	1:k:596:LEU:HD12	2.14	0.47
1:k:179:LEU:HD11	1:k:559:VAL:HG22	1.97	0.47
1:k:235:GLU:C	1:k:236:THR:HG22	2.40	0.47
1:l:603:ASN:OD1	1:l:603:ASN:N	2.47	0.47
1:p:235:GLU:C	1:p:236:THR:HG22	2.39	0.47
1:p:288:LEU:O	1:p:640:ARG:HA	2.14	0.47
1:q:349:MET:HE1	1:r:101:PHE:CE2	2.49	0.47
1:q:413:ASP:H	1:q:633:GLU:HB3	1.80	0.47
1:t:56:ASN:OD1	1:t:596:LEU:HD12	2.14	0.47
1:u:603:ASN:N	1:u:603:ASN:OD1	2.47	0.47
1:v:148:GLN:HG3	1:v:276:THR:CG2	2.44	0.47
1:w:603:ASN:OD1	1:w:603:ASN:N	2.47	0.47
1:x:235:GLU:C	1:x:236:THR:HG22	2.40	0.47
1:x:603:ASN:OD1	1:x:603:ASN:N	2.47	0.47
1:4:207:ARG:NH1	1:4:408:ARG:HH22	2.11	0.47
1:5:207:ARG:NH1	1:5:408:ARG:HH22	2.11	0.47
1:6:268:LEU:HD22	1:6:272:ASP:HB3	1.96	0.47
1:8:179:LEU:HD11	1:8:559:VAL:HG22	1.97	0.47
1:A:349:MET:HE1	1:G:101:PHE:CE2	2.48	0.47
1:B:179:LEU:HD11	1:B:559:VAL:HG22	1.97	0.47
1:C:268:LEU:HD22	1:C:272:ASP:HB3	1.96	0.47
1:D:56:ASN:OD1	1:D:596:LEU:HD12	2.14	0.47
1:D:603:ASN:N	1:D:603:ASN:OD1	2.47	0.47
1:E:179:LEU:HD11	1:E:559:VAL:HG22	1.97	0.47
1:E:402:THR:O	1:E:403:ARG:NH2	2.44	0.47
1:E:603:ASN:OD1	1:E:603:ASN:N	2.47	0.47
1:F:56:ASN:OD1	1:F:596:LEU:HD12	2.14	0.47
1:F:207:ARG:NH1	1:F:408:ARG:HH22	2.11	0.47
1:H:235:GLU:C	1:H:236:THR:HG22	2.40	0.47
1:I:92:HIS:CG	1:I:239:TRP:CB	2.94	0.47
1:I:603:ASN:N	1:I:603:ASN:OD1	2.47	0.47
1:K:48:THR:HG22	1:L:261:ASN:O	2.14	0.47
1:K:148:GLN:HG3	1:K:276:THR:CG2	2.44	0.47
1:N:163:GLN:OE1	1:N:163:GLN:HA	2.13	0.47
1:P:148:GLN:HG3	1:P:276:THR:CG2	2.44	0.47
1:R:101:PHE:CE2	1:U:349:MET:HE1	2.48	0.47
1:R:251:GLU:HB2	1:V:621:TYR:HD2	1.79	0.47
1:R:349:MET:HE1	1:S:101:PHE:CE2	2.48	0.47
1:S:179:LEU:HD11	1:S:559:VAL:HG22	1.97	0.47
1:T:179:LEU:HD11	1:T:559:VAL:HG22	1.97	0.47
1:V:235:GLU:C	1:V:236:THR:HG22	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:268:LEU:HD22	1:W:272:ASP:HB3	1.96	0.47
1:Z:288:LEU:O	1:Z:640:ARG:HA	2.14	0.47
1:d:603:ASN:OD1	1:d:603:ASN:N	2.47	0.47
1:f:235:GLU:C	1:f:236:THR:HG22	2.39	0.47
1:f:603:ASN:OD1	1:f:603:ASN:N	2.47	0.47
1:g:163:GLN:HA	1:g:163:GLN:OE1	2.13	0.47
1:j:349:MET:HE1	1:k:101:PHE:CE2	2.49	0.47
1:l:56:ASN:OD1	1:l:596:LEU:HD12	2.14	0.47
1:n:603:ASN:OD1	1:n:603:ASN:N	2.47	0.47
1:p:56:ASN:OD1	1:p:596:LEU:HD12	2.14	0.47
1:p:179:LEU:HD11	1:p:559:VAL:HG22	1.97	0.47
1:p:621:TYR:HD2	1:q:251:GLU:HB2	1.79	0.47
1:q:101:PHE:CE2	1:s:349:MET:HE1	2.48	0.47
1:q:163:GLN:OE1	1:q:163:GLN:HA	2.13	0.47
1:q:179:LEU:HD11	1:q:559:VAL:HG22	1.97	0.47
1:r:56:ASN:OD1	1:r:596:LEU:HD12	2.14	0.47
1:r:313:LYS:O	1:r:316:SER:OG	2.26	0.47
1:w:268:LEU:HD22	1:w:272:ASP:HB3	1.96	0.47
1:1:179:LEU:HD11	1:1:559:VAL:HG22	1.97	0.47
1:1:603:ASN:OD1	1:1:603:ASN:N	2.47	0.47
1:3:268:LEU:HD22	1:3:272:ASP:HB3	1.96	0.47
1:4:148:GLN:HG3	1:4:276:THR:CG2	2.44	0.47
1:5:179:LEU:HD11	1:5:559:VAL:HG22	1.97	0.47
1:5:235:GLU:C	1:5:236:THR:HG22	2.40	0.47
1:5:603:ASN:OD1	1:5:603:ASN:N	2.47	0.47
1:8:288:LEU:O	1:8:640:ARG:HA	2.14	0.47
1:A:336:HIS:HE1	1:G:402:THR:HG21	1.77	0.47
1:B:603:ASN:OD1	1:B:603:ASN:N	2.47	0.47
1:C:163:GLN:OE1	1:C:163:GLN:HA	2.13	0.47
1:D:101:PHE:CE2	1:P:349:MET:HE1	2.49	0.47
1:H:101:PHE:CE2	1:Y:349:MET:HE1	2.49	0.47
1:H:179:LEU:HD11	1:H:559:VAL:HG22	1.97	0.47
1:H:207:ARG:NH1	1:H:408:ARG:HH22	2.11	0.47
1:H:603:ASN:OD1	1:H:603:ASN:N	2.47	0.47
1:I:621:TYR:HD2	1:J:251:GLU:HB2	1.79	0.47
1:K:251:GLU:HB2	1:7:621:TYR:HD2	1.79	0.47
1:K:382:TRP:CG	1:K:464:TRP:HA	2.50	0.47
1:O:56:ASN:OD1	1:O:596:LEU:HD12	2.14	0.47
1:O:349:MET:HE1	1:m:101:PHE:CE2	2.49	0.47
1:Q:413:ASP:H	1:Q:633:GLU:HB3	1.80	0.47
1:R:163:GLN:OE1	1:R:163:GLN:HA	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:179:LEU:HD11	1:R:559:VAL:HG22	1.97	0.47
1:S:413:ASP:H	1:S:633:GLU:HB3	1.80	0.47
1:U:148:GLN:HG3	1:U:276:THR:CG2	2.44	0.47
1:U:235:GLU:C	1:U:236:THR:HG22	2.40	0.47
1:V:603:ASN:OD1	1:V:603:ASN:N	2.47	0.47
1:W:235:GLU:C	1:W:236:THR:HG22	2.39	0.47
1:X:179:LEU:HD11	1:X:559:VAL:HG22	1.97	0.47
1:X:261:ASN:O	1:f:48:THR:HG22	2.14	0.47
1:Y:621:TYR:HD2	1:4:251:GLU:HB2	1.79	0.47
1:a:336:HIS:HE1	1:8:402:THR:HG21	1.78	0.47
1:c:235:GLU:C	1:c:236:THR:HG22	2.40	0.47
1:c:268:LEU:HD22	1:c:272:ASP:HB3	1.96	0.47
1:e:235:GLU:C	1:e:236:THR:HG22	2.40	0.47
1:g:268:LEU:HD22	1:g:272:ASP:HB3	1.96	0.47
1:h:56:ASN:OD1	1:h:596:LEU:HD12	2.14	0.47
1:i:163:GLN:OE1	1:i:163:GLN:HA	2.13	0.47
1:j:135:LYS:HD2	1:j:641:SER:OG	2.15	0.47
1:j:268:LEU:HD22	1:j:272:ASP:HB3	1.96	0.47
1:k:603:ASN:OD1	1:k:603:ASN:N	2.47	0.47
1:m:179:LEU:HD11	1:m:559:VAL:HG22	1.97	0.47
1:m:603:ASN:OD1	1:m:603:ASN:N	2.47	0.47
1:n:288:LEU:O	1:n:640:ARG:HA	2.14	0.47
1:o:179:LEU:HD11	1:o:559:VAL:HG22	1.97	0.47
1:r:179:LEU:HD11	1:r:559:VAL:HG22	1.97	0.47
1:r:382:TRP:CG	1:r:464:TRP:HA	2.50	0.47
1:r:413:ASP:H	1:r:633:GLU:HB3	1.80	0.47
1:s:235:GLU:C	1:s:236:THR:HG22	2.40	0.47
1:t:621:TYR:HD2	1:6:251:GLU:HB2	1.79	0.47
1:v:621:TYR:HD2	1:w:251:GLU:HB2	1.80	0.47
1:x:90:LYS:NZ	1:x:244:ASP:OD2	2.32	0.47
1:x:413:ASP:H	1:x:633:GLU:HB3	1.80	0.47
1:4:382:TRP:CG	1:4:464:TRP:HA	2.50	0.47
1:5:288:LEU:O	1:5:640:ARG:HA	2.14	0.47
1:6:179:LEU:HD11	1:6:559:VAL:HG22	1.97	0.47
1:6:235:GLU:C	1:6:236:THR:HG22	2.40	0.47
1:A:251:GLU:HB2	1:B:621:TYR:HD2	1.79	0.47
1:A:382:TRP:CG	1:A:464:TRP:HA	2.50	0.47
1:C:179:LEU:HD11	1:C:559:VAL:HG22	1.97	0.47
1:C:382:TRP:CG	1:C:464:TRP:HA	2.50	0.47
1:D:261:ASN:O	1:E:48:THR:HG22	2.14	0.47
1:F:235:GLU:C	1:F:236:THR:HG22	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:621:TYR:HD2	1:W:251:GLU:HB2	1.79	0.47
1:H:288:LEU:O	1:H:640:ARG:HA	2.14	0.47
1:H:382:TRP:CG	1:H:464:TRP:HA	2.50	0.47
1:I:235:GLU:C	1:I:236:THR:HG22	2.40	0.47
1:I:413:ASP:H	1:I:633:GLU:HB3	1.80	0.47
1:J:135:LYS:HD2	1:J:641:SER:OG	2.15	0.47
1:J:268:LEU:HD22	1:J:272:ASP:HB3	1.96	0.47
1:J:413:ASP:H	1:J:633:GLU:HB3	1.80	0.47
1:J:492:PHE:CE1	1:L:98:LEU:HD23	2.50	0.47
1:L:56:ASN:OD1	1:L:596:LEU:HD12	2.14	0.47
1:M:56:ASN:OD1	1:M:596:LEU:HD12	2.14	0.47
1:M:251:GLU:HB2	1:c:621:TYR:HD2	1.79	0.47
1:M:413:ASP:H	1:M:633:GLU:HB3	1.80	0.47
1:N:235:GLU:C	1:N:236:THR:HG22	2.40	0.47
1:N:288:LEU:O	1:N:640:ARG:HA	2.14	0.47
1:N:382:TRP:CG	1:N:464:TRP:HA	2.50	0.47
1:O:48:THR:HG22	1:P:261:ASN:O	2.14	0.47
1:P:92:HIS:CG	1:P:239:TRP:CB	2.94	0.47
1:P:96:LEU:H	1:P:96:LEU:CD2	2.03	0.47
1:P:135:LYS:HD2	1:P:641:SER:OG	2.15	0.47
1:R:261:ASN:O	1:V:48:THR:HG22	2.14	0.47
1:R:382:TRP:CG	1:R:464:TRP:HA	2.50	0.47
1:S:163:GLN:OE1	1:S:163:GLN:HA	2.13	0.47
1:S:288:LEU:O	1:S:640:ARG:HA	2.14	0.47
1:S:382:TRP:CG	1:S:464:TRP:HA	2.50	0.47
1:T:101:PHE:CE2	1:l:349:MET:HE1	2.48	0.47
1:T:235:GLU:C	1:T:236:THR:HG22	2.40	0.47
1:T:382:TRP:CG	1:T:464:TRP:HA	2.50	0.47
1:U:268:LEU:HD22	1:U:272:ASP:HB3	1.96	0.47
1:V:135:LYS:HD2	1:V:641:SER:OG	2.15	0.47
1:V:179:LEU:HD11	1:V:559:VAL:HG22	1.97	0.47
1:V:251:GLU:HB2	1:W:621:TYR:HD2	1.79	0.47
1:V:268:LEU:HD22	1:V:272:ASP:HB3	1.96	0.47
1:W:179:LEU:HD11	1:W:559:VAL:HG22	1.97	0.47
1:W:288:LEU:O	1:W:640:ARG:HA	2.14	0.47
1:Y:56:ASN:OD1	1:Y:596:LEU:HD12	2.14	0.47
1:Z:235:GLU:C	1:Z:236:THR:HG22	2.40	0.47
1:Z:402:THR:HG21	1:3:336:HIS:HE1	1.78	0.47
1:Z:402:THR:O	1:Z:403:ARG:NH2	2.44	0.47
1:Z:413:ASP:H	1:Z:633:GLU:HB3	1.80	0.47
1:a:56:ASN:OD1	1:a:596:LEU:HD12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:268:LEU:HD22	1:a:272:ASP:HB3	1.96	0.47
1:a:382:TRP:CG	1:a:464:TRP:HA	2.50	0.47
1:b:235:GLU:C	1:b:236:THR:HG22	2.40	0.47
1:b:288:LEU:O	1:b:640:ARG:HA	2.14	0.47
1:b:382:TRP:CG	1:b:464:TRP:HA	2.50	0.47
1:c:603:ASN:OD1	1:c:603:ASN:N	2.47	0.47
1:d:163:GLN:OE1	1:d:163:GLN:HA	2.13	0.47
1:d:288:LEU:O	1:d:640:ARG:HA	2.14	0.47
1:d:413:ASP:H	1:d:633:GLU:HB3	1.80	0.47
1:e:135:LYS:HD2	1:e:641:SER:OG	2.15	0.47
1:e:603:ASN:OD1	1:e:603:ASN:N	2.47	0.47
1:e:621:TYR:HD2	1:h:251:GLU:HB2	1.79	0.47
1:f:288:LEU:O	1:f:640:ARG:HA	2.14	0.47
1:g:179:LEU:HD11	1:g:559:VAL:HG22	1.97	0.47
1:g:382:TRP:CG	1:g:464:TRP:HA	2.50	0.47
1:h:413:ASP:H	1:h:633:GLU:HB3	1.80	0.47
1:i:235:GLU:C	1:i:236:THR:HG22	2.40	0.47
1:i:288:LEU:O	1:i:640:ARG:HA	2.14	0.47
1:i:382:TRP:CG	1:i:464:TRP:HA	2.50	0.47
1:j:92:HIS:CG	1:j:239:TRP:CB	2.94	0.47
1:j:261:ASN:O	1:l:48:THR:HG22	2.14	0.47
1:j:413:ASP:H	1:j:633:GLU:HB3	1.80	0.47
1:k:261:ASN:O	1:w:48:THR:HG22	2.14	0.47
1:m:235:GLU:C	1:m:236:THR:HG22	2.39	0.47
1:m:382:TRP:CG	1:m:464:TRP:HA	2.50	0.47
1:n:413:ASP:H	1:n:633:GLU:HB3	1.80	0.47
1:p:135:LYS:HD2	1:p:641:SER:OG	2.15	0.47
1:p:603:ASN:OD1	1:p:603:ASN:N	2.47	0.47
1:r:163:GLN:HA	1:r:163:GLN:OE1	2.13	0.47
1:s:148:GLN:HG3	1:s:276:THR:CG2	2.44	0.47
1:t:101:PHE:CE2	1:v:349:MET:HE1	2.49	0.47
1:u:135:LYS:HD2	1:u:641:SER:OG	2.15	0.47
1:u:235:GLU:C	1:u:236:THR:HG22	2.40	0.47
1:u:413:ASP:H	1:u:633:GLU:HB3	1.80	0.47
1:u:621:TYR:HD2	1:2:251:GLU:HB2	1.79	0.47
1:w:179:LEU:HD11	1:w:559:VAL:HG22	1.97	0.47
1:w:413:ASP:H	1:w:633:GLU:HB3	1.80	0.47
1:x:163:GLN:OE1	1:x:163:GLN:HA	2.13	0.47
1:y:56:ASN:OD1	1:y:596:LEU:HD12	2.14	0.47
1:z:56:ASN:OD1	1:z:596:LEU:HD12	2.14	0.47
1:z:98:LEU:HD23	1:2:492:PHE:CE1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:56:ASN:OD1	1:1:596:LEU:HD12	2.14	0.47
1:2:135:LYS:HD2	1:2:641:SER:OG	2.15	0.47
1:2:413:ASP:H	1:2:633:GLU:HB3	1.80	0.47
1:3:135:LYS:HD2	1:3:641:SER:OG	2.15	0.47
1:4:96:LEU:H	1:4:96:LEU:CD2	2.03	0.47
1:4:235:GLU:C	1:4:236:THR:HG22	2.40	0.47
1:5:101:PHE:CE2	1:7:349:MET:HE1	2.49	0.47
1:5:382:TRP:CG	1:5:464:TRP:HA	2.50	0.47
1:7:382:TRP:CG	1:7:464:TRP:HA	2.50	0.47
1:8:235:GLU:C	1:8:236:THR:HG22	2.40	0.47
1:8:413:ASP:H	1:8:633:GLU:HB3	1.80	0.47
1:8:603:ASN:OD1	1:8:603:ASN:N	2.47	0.47
1:C:90:LYS:NZ	1:C:244:ASP:OD2	2.32	0.47
1:C:235:GLU:C	1:C:236:THR:HG22	2.39	0.47
1:E:288:LEU:O	1:E:640:ARG:HA	2.14	0.47
1:E:349:MET:HE1	1:Q:101:PHE:CE2	2.49	0.47
1:E:413:ASP:H	1:E:633:GLU:HB3	1.80	0.47
1:G:92:HIS:CG	1:G:239:TRP:CB	2.94	0.47
1:G:382:TRP:CG	1:G:464:TRP:HA	2.50	0.47
1:G:413:ASP:H	1:G:633:GLU:HB3	1.80	0.47
1:I:135:LYS:HD2	1:I:641:SER:OG	2.15	0.47
1:K:235:GLU:C	1:K:236:THR:HG22	2.40	0.47
1:L:135:LYS:HD2	1:L:641:SER:OG	2.15	0.47
1:L:382:TRP:CG	1:L:464:TRP:HA	2.50	0.47
1:P:413:ASP:H	1:P:633:GLU:HB3	1.80	0.47
1:Q:90:LYS:NZ	1:Q:244:ASP:OD2	2.32	0.47
1:Q:163:GLN:OE1	1:Q:163:GLN:HA	2.13	0.47
1:S:492:PHE:CE1	1:U:98:LEU:HD23	2.50	0.47
1:T:413:ASP:H	1:T:633:GLU:HB3	1.80	0.47
1:Y:382:TRP:CG	1:Y:464:TRP:HA	2.50	0.47
1:Z:603:ASN:N	1:Z:603:ASN:OD1	2.47	0.47
1:a:135:LYS:HD2	1:a:641:SER:OG	2.15	0.47
1:d:403:ARG:HD3	1:d:460:GLU:HA	1.97	0.47
1:f:382:TRP:CG	1:f:464:TRP:HA	2.50	0.47
1:g:235:GLU:C	1:g:236:THR:HG22	2.39	0.47
1:h:621:TYR:HD2	1:i:251:GLU:HB2	1.79	0.47
1:l:135:LYS:HD2	1:l:641:SER:OG	2.15	0.47
1:l:261:ASN:O	1:n:48:THR:HG22	2.14	0.47
1:m:413:ASP:H	1:m:633:GLU:HB3	1.80	0.47
1:n:163:GLN:OE1	1:n:163:GLN:HA	2.13	0.47
1:n:403:ARG:HD3	1:n:460:GLU:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:48:THR:HG22	1:q:261:ASN:O	2.14	0.47
1:p:268:LEU:HD22	1:p:272:ASP:HB3	1.96	0.47
1:q:382:TRP:CG	1:q:464:TRP:HA	2.50	0.47
1:r:288:LEU:O	1:r:640:ARG:HA	2.14	0.47
1:r:403:ARG:HD3	1:r:460:GLU:HA	1.97	0.47
1:r:492:PHE:CE1	1:s:98:LEU:HD23	2.50	0.47
1:s:135:LYS:HD2	1:s:641:SER:OG	2.15	0.47
1:t:92:HIS:CG	1:t:239:TRP:CB	2.94	0.47
1:t:382:TRP:CG	1:t:464:TRP:HA	2.50	0.47
1:v:382:TRP:CG	1:v:464:TRP:HA	2.50	0.47
1:y:402:THR:O	1:y:403:ARG:NH2	2.44	0.47
1:y:413:ASP:H	1:y:633:GLU:HB3	1.80	0.47
1:z:603:ASN:N	1:z:603:ASN:OD1	2.47	0.47
1:2:268:LEU:HD22	1:2:272:ASP:HB3	1.96	0.47
1:3:56:ASN:OD1	1:3:596:LEU:HD12	2.14	0.47
1:3:382:TRP:CG	1:3:464:TRP:HA	2.50	0.47
1:4:403:ARG:HD3	1:4:460:GLU:HA	1.97	0.47
1:6:288:LEU:O	1:6:640:ARG:HA	2.14	0.47
1:7:56:ASN:OD1	1:7:596:LEU:HD12	2.14	0.47
1:8:148:GLN:HG3	1:8:276:THR:CG2	2.44	0.47
1:B:56:ASN:OD1	1:B:596:LEU:HD12	2.14	0.47
1:E:235:GLU:C	1:E:236:THR:HG22	2.40	0.47
1:E:313:LYS:O	1:E:316:SER:OG	2.26	0.47
1:E:403:ARG:HD3	1:E:460:GLU:HA	1.97	0.47
1:F:413:ASP:H	1:F:633:GLU:HB3	1.80	0.47
1:G:403:ARG:HD3	1:G:460:GLU:HA	1.97	0.47
1:K:403:ARG:HD3	1:K:460:GLU:HA	1.97	0.47
1:L:603:ASN:N	1:L:603:ASN:OD1	2.47	0.47
1:M:621:TYR:HD2	1:N:251:GLU:HB2	1.79	0.47
1:N:621:TYR:HD2	1:m:251:GLU:HB2	1.79	0.47
1:O:135:LYS:HD2	1:O:641:SER:OG	2.15	0.47
1:O:261:ASN:O	1:d:48:THR:HG22	2.14	0.47
1:P:235:GLU:C	1:P:236:THR:HG22	2.40	0.47
1:R:96:LEU:H	1:R:96:LEU:CD2	2.03	0.47
1:R:403:ARG:HD3	1:R:460:GLU:HA	1.97	0.47
1:S:403:ARG:HD3	1:S:460:GLU:HA	1.97	0.47
1:S:621:TYR:HD2	1:d:251:GLU:HB2	1.79	0.47
1:U:135:LYS:HD2	1:U:641:SER:OG	2.15	0.47
1:U:179:LEU:HD11	1:U:559:VAL:HG22	1.97	0.47
1:U:413:ASP:N	1:U:633:GLU:HB3	2.30	0.47
1:Y:135:LYS:HD2	1:Y:641:SER:OG	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:603:ASN:OD1	1:Y:603:ASN:N	2.47	0.47
1:Z:148:GLN:HG3	1:Z:276:THR:CG2	2.44	0.47
1:Z:268:LEU:HD22	1:Z:272:ASP:HB3	1.96	0.47
1:a:413:ASP:H	1:a:633:GLU:HB3	1.80	0.47
1:c:135:LYS:HD2	1:c:641:SER:OG	2.15	0.47
1:c:251:GLU:HB2	1:s:621:TYR:HD2	1.79	0.47
1:c:413:ASP:H	1:c:633:GLU:HB3	1.80	0.47
1:c:492:PHE:CE1	1:o:98:LEU:HD23	2.50	0.47
1:d:56:ASN:OD1	1:d:596:LEU:HD12	2.14	0.47
1:d:235:GLU:C	1:d:236:THR:HG22	2.40	0.47
1:f:336:HIS:HE1	1:h:402:THR:HG21	1.78	0.47
1:g:261:ASN:O	1:k:48:THR:HG22	2.14	0.47
1:j:235:GLU:C	1:j:236:THR:HG22	2.40	0.47
1:l:382:TRP:CG	1:l:464:TRP:HA	2.50	0.47
1:n:56:ASN:OD1	1:n:596:LEU:HD12	2.14	0.47
1:n:235:GLU:C	1:n:236:THR:HG22	2.40	0.47
1:p:251:GLU:HB2	1:6:621:TYR:HD2	1.79	0.47
1:q:96:LEU:H	1:q:96:LEU:CD2	2.03	0.47
1:q:403:ARG:HD3	1:q:460:GLU:HA	1.97	0.47
1:r:402:THR:O	1:r:403:ARG:NH2	2.44	0.47
1:s:179:LEU:HD11	1:s:559:VAL:HG22	1.97	0.47
1:s:268:LEU:HD22	1:s:272:ASP:HB3	1.96	0.47
1:s:603:ASN:OD1	1:s:603:ASN:N	2.47	0.47
1:t:403:ARG:HD3	1:t:460:GLU:HA	1.97	0.47
1:u:288:LEU:O	1:u:640:ARG:HA	2.14	0.47
1:u:402:THR:O	1:u:403:ARG:NH2	2.44	0.47
1:w:235:GLU:C	1:w:236:THR:HG22	2.40	0.47
1:w:349:MET:HE1	1:x:101:PHE:CE2	2.49	0.47
1:w:403:ARG:HD3	1:w:460:GLU:HA	1.97	0.47
1:y:235:GLU:C	1:y:236:THR:HG22	2.40	0.47
1:z:135:LYS:HD2	1:z:641:SER:OG	2.15	0.47
1:z:382:TRP:CG	1:z:464:TRP:HA	2.50	0.47
1:6:192:THR:H	1:6:556:GLN:NE2	2.06	0.47
1:7:603:ASN:OD1	1:7:603:ASN:N	2.47	0.47
1:A:135:LYS:HD2	1:A:641:SER:OG	2.15	0.47
1:B:98:LEU:HD23	1:L:492:PHE:CE1	2.50	0.47
1:B:413:ASP:H	1:B:633:GLU:HB3	1.80	0.47
1:C:261:ASN:O	1:D:48:THR:HG22	2.14	0.47
1:D:98:LEU:HD23	1:P:492:PHE:CE1	2.50	0.47
1:D:334:LEU:HD23	1:N:405:ILE:HG22	1.98	0.47
1:F:403:ARG:HD3	1:F:460:GLU:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:403:ARG:HD3	1:H:460:GLU:HA	1.97	0.47
1:I:413:ASP:N	1:I:633:GLU:HB3	2.30	0.47
1:K:413:ASP:N	1:K:633:GLU:HB3	2.30	0.47
1:M:235:GLU:C	1:M:236:THR:HG22	2.40	0.47
1:N:135:LYS:HD2	1:N:641:SER:OG	2.15	0.47
1:O:382:TRP:CG	1:O:464:TRP:HA	2.50	0.47
1:Q:382:TRP:CG	1:Q:464:TRP:HA	2.50	0.47
1:U:603:ASN:OD1	1:U:603:ASN:N	2.47	0.47
1:U:621:TYR:HD2	1:e:251:GLU:HB2	1.79	0.47
1:V:402:THR:HG21	1:X:336:HIS:HE1	1.79	0.47
1:V:492:PHE:CE1	1:e:98:LEU:HD23	2.50	0.47
1:X:103:TYR:CE1	1:e:345:LYS:HB3	2.50	0.47
1:X:382:TRP:CG	1:X:464:TRP:HA	2.50	0.47
1:a:179:LEU:HD11	1:a:559:VAL:HG22	1.97	0.47
1:b:179:LEU:HD11	1:b:559:VAL:HG22	1.97	0.47
1:c:179:LEU:HD11	1:c:559:VAL:HG22	1.97	0.47
1:c:413:ASP:N	1:c:633:GLU:HB3	2.30	0.47
1:f:492:PHE:CE1	1:h:98:LEU:HD23	2.50	0.47
1:g:251:GLU:HB2	1:k:621:TYR:HD2	1.79	0.47
1:h:382:TRP:CG	1:h:464:TRP:HA	2.50	0.47
1:i:135:LYS:HD2	1:i:641:SER:OG	2.15	0.47
1:j:492:PHE:CE1	1:k:98:LEU:HD23	2.50	0.47
1:l:403:ARG:HD3	1:l:460:GLU:HA	1.97	0.47
1:n:382:TRP:CG	1:n:464:TRP:HA	2.50	0.47
1:o:382:TRP:CG	1:o:464:TRP:HA	2.50	0.47
1:o:603:ASN:OD1	1:o:603:ASN:N	2.47	0.47
1:p:148:GLN:HG3	1:p:276:THR:CG2	2.44	0.47
1:s:403:ARG:HD3	1:s:460:GLU:HA	1.97	0.47
1:s:413:ASP:N	1:s:633:GLU:HB3	2.30	0.47
1:t:413:ASP:H	1:t:633:GLU:HB3	1.80	0.47
1:u:413:ASP:N	1:u:633:GLU:HB3	2.30	0.47
1:v:251:GLU:HB2	1:1:621:TYR:HD2	1.79	0.47
1:w:288:LEU:O	1:w:640:ARG:HA	2.14	0.47
1:y:403:ARG:HD3	1:y:460:GLU:HA	1.97	0.47
1:1:413:ASP:N	1:1:633:GLU:HB3	2.30	0.47
1:4:413:ASP:N	1:4:633:GLU:HB3	2.30	0.47
1:5:413:ASP:N	1:5:633:GLU:HB3	2.30	0.47
1:7:135:LYS:HD2	1:7:641:SER:OG	2.15	0.47
1:8:268:LEU:HD22	1:8:272:ASP:HB3	1.96	0.47
1:8:402:THR:O	1:8:403:ARG:NH2	2.44	0.47
1:A:235:GLU:C	1:A:236:THR:HG22	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:413:ASP:N	1:A:633:GLU:HB3	2.30	0.46
1:B:413:ASP:N	1:B:633:GLU:HB3	2.30	0.46
1:C:251:GLU:HB2	1:D:621:TYR:HD2	1.79	0.46
1:C:334:LEU:HD23	1:b:405:ILE:HG22	1.97	0.46
1:C:405:ILE:HG22	1:M:334:LEU:HD23	1.98	0.46
1:D:163:GLN:HA	1:D:163:GLN:OE1	2.13	0.46
1:D:413:ASP:N	1:D:633:GLU:HB3	2.30	0.46
1:D:492:PHE:CE1	1:N:98:LEU:HD23	2.50	0.46
1:E:135:LYS:HD2	1:E:641:SER:OG	2.15	0.46
1:F:402:THR:O	1:F:403:ARG:NH2	2.44	0.46
1:H:413:ASP:N	1:H:633:GLU:HB3	2.30	0.46
1:I:288:LEU:O	1:I:640:ARG:HA	2.14	0.46
1:I:382:TRP:CG	1:I:464:TRP:HA	2.50	0.46
1:J:382:TRP:CG	1:J:464:TRP:HA	2.50	0.46
1:J:413:ASP:N	1:J:633:GLU:HB3	2.30	0.46
1:K:492:PHE:CE1	1:a:98:LEU:HD23	2.50	0.46
1:L:179:LEU:HD11	1:L:559:VAL:HG22	1.97	0.46
1:L:235:GLU:C	1:L:236:THR:HG22	2.40	0.46
1:M:98:LEU:HD23	1:b:492:PHE:CE1	2.50	0.46
1:M:382:TRP:CG	1:M:464:TRP:HA	2.50	0.46
1:M:402:THR:HG21	1:b:336:HIS:HE1	1.78	0.46
1:O:403:ARG:HD3	1:O:460:GLU:HA	1.97	0.46
1:Q:135:LYS:HD2	1:Q:641:SER:OG	2.15	0.46
1:T:148:GLN:HG3	1:T:276:THR:CG2	2.44	0.46
1:T:251:GLU:HB2	1:i:621:TYR:HD2	1.79	0.46
1:U:403:ARG:HD3	1:U:460:GLU:HA	1.97	0.46
1:X:135:LYS:HD2	1:X:641:SER:OG	2.15	0.46
1:c:98:LEU:HD23	1:p:492:PHE:CE1	2.50	0.46
1:e:413:ASP:H	1:e:633:GLU:HB3	1.80	0.46
1:e:413:ASP:N	1:e:633:GLU:HB3	2.30	0.46
1:f:179:LEU:HD11	1:f:559:VAL:HG22	1.97	0.46
1:g:405:ILE:HG22	1:h:334:LEU:HD23	1.98	0.46
1:h:235:GLU:C	1:h:236:THR:HG22	2.40	0.46
1:i:405:ILE:HG22	1:k:334:LEU:HD23	1.98	0.46
1:j:96:LEU:H	1:j:96:LEU:CD2	2.03	0.46
1:k:268:LEU:HD22	1:k:272:ASP:HB3	1.96	0.46
1:k:382:TRP:CG	1:k:464:TRP:HA	2.50	0.46
1:k:413:ASP:N	1:k:633:GLU:HB3	2.30	0.46
1:l:413:ASP:N	1:l:633:GLU:HB3	2.30	0.46
1:o:135:LYS:HD2	1:o:641:SER:OG	2.15	0.46
1:o:413:ASP:H	1:o:633:GLU:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:382:TRP:CG	1:u:464:TRP:HA	2.50	0.46
1:u:492:PHE:CE1	1:v:98:LEU:HD23	2.50	0.46
1:v:235:GLU:C	1:v:236:THR:HG22	2.40	0.46
1:v:413:ASP:N	1:v:633:GLU:HB3	2.30	0.46
1:w:313:LYS:O	1:w:316:SER:OG	2.26	0.46
1:x:382:TRP:CG	1:x:464:TRP:HA	2.50	0.46
1:z:403:ARG:HD3	1:z:460:GLU:HA	1.97	0.46
1:z:413:ASP:H	1:z:633:GLU:HB3	1.80	0.46
1:z:492:PHE:CE1	1:1:98:LEU:HD23	2.50	0.46
1:1:413:ASP:H	1:1:633:GLU:HB3	1.80	0.46
1:2:382:TRP:CG	1:2:464:TRP:HA	2.50	0.46
1:2:413:ASP:N	1:2:633:GLU:HB3	2.30	0.46
1:3:179:LEU:HD11	1:3:559:VAL:HG22	1.97	0.46
1:5:403:ARG:HD3	1:5:460:GLU:HA	1.97	0.46
1:A:334:LEU:HD23	1:G:405:ILE:HG22	1.97	0.46
1:A:603:ASN:OD1	1:A:603:ASN:N	2.47	0.46
1:B:405:ILE:HG22	1:L:334:LEU:HD23	1.98	0.46
1:D:268:LEU:HD22	1:D:272:ASP:HB3	1.96	0.46
1:D:382:TRP:CG	1:D:464:TRP:HA	2.50	0.46
1:E:382:TRP:CG	1:E:464:TRP:HA	2.50	0.46
1:E:492:PHE:CE1	1:Q:98:LEU:HD23	2.50	0.46
1:F:98:LEU:HD23	1:Q:492:PHE:CE1	2.50	0.46
1:G:492:PHE:CE1	1:I:98:LEU:HD23	2.50	0.46
1:I:402:THR:O	1:I:403:ARG:NH2	2.44	0.46
1:K:405:ILE:HG22	1:8:334:LEU:HD23	1.98	0.46
1:K:603:ASN:OD1	1:K:603:ASN:N	2.47	0.46
1:L:148:GLN:HG3	1:L:276:THR:CG2	2.44	0.46
1:L:403:ARG:HD3	1:L:460:GLU:HA	1.97	0.46
1:L:413:ASP:H	1:L:633:GLU:HB3	1.80	0.46
1:M:135:LYS:HD2	1:M:641:SER:OG	2.15	0.46
1:O:251:GLU:HB2	1:d:621:TYR:HD2	1.79	0.46
1:O:413:ASP:N	1:O:633:GLU:HB3	2.30	0.46
1:P:179:LEU:HD11	1:P:559:VAL:HG22	1.97	0.46
1:R:235:GLU:C	1:R:236:THR:HG22	2.40	0.46
1:S:402:THR:O	1:S:403:ARG:NH2	2.44	0.46
1:T:288:LEU:O	1:T:640:ARG:HA	2.14	0.46
1:V:148:GLN:HG3	1:V:276:THR:CG2	2.44	0.46
1:V:334:LEU:HD23	1:e:405:ILE:HG22	1.98	0.46
1:W:192:THR:H	1:W:556:GLN:NE2	2.06	0.46
1:X:413:ASP:H	1:X:633:GLU:HB3	1.80	0.46
1:X:603:ASN:OD1	1:X:603:ASN:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:92:HIS:CG	1:a:239:TRP:CB	2.94	0.46
1:b:621:TYR:HD2	1:o:251:GLU:HB2	1.79	0.46
1:c:405:ILE:HG22	1:p:334:LEU:HD23	1.97	0.46
1:d:382:TRP:CG	1:d:464:TRP:HA	2.50	0.46
1:e:179:LEU:HD11	1:e:559:VAL:HG22	1.97	0.46
1:g:90:LYS:NZ	1:g:244:ASP:OD2	2.32	0.46
1:i:98:LEU:HD23	1:k:492:PHE:CE1	2.50	0.46
1:j:179:LEU:HD11	1:j:559:VAL:HG22	1.97	0.46
1:l:251:GLU:HB2	1:n:621:TYR:HD2	1.79	0.46
1:l:413:ASP:H	1:l:633:GLU:HB3	1.80	0.46
1:n:251:GLU:HB2	1:r:621:TYR:HD2	1.79	0.46
1:p:114:TRP:CD1	1:p:259:ILE:HD12	2.51	0.46
1:p:192:THR:H	1:p:556:GLN:NE2	2.06	0.46
1:q:235:GLU:C	1:q:236:THR:HG22	2.40	0.46
1:r:135:LYS:HD2	1:r:641:SER:OG	2.15	0.46
1:r:413:ASP:N	1:r:633:GLU:HB3	2.30	0.46
1:t:135:LYS:HD2	1:t:641:SER:OG	2.15	0.46
1:t:402:THR:HG21	1:v:336:HIS:HE1	1.78	0.46
1:t:492:PHE:CE1	1:u:98:LEU:HD23	2.50	0.46
1:u:336:HIS:HE1	1:v:402:THR:HG21	1.78	0.46
1:v:135:LYS:HD2	1:v:641:SER:OG	2.15	0.46
1:v:603:ASN:OD1	1:v:603:ASN:N	2.47	0.46
1:w:96:LEU:H	1:w:96:LEU:CD2	2.03	0.46
1:w:382:TRP:CG	1:w:464:TRP:HA	2.50	0.46
1:x:135:LYS:HD2	1:x:641:SER:OG	2.15	0.46
1:x:492:PHE:CE1	1:y:98:LEU:HD23	2.50	0.46
1:z:334:LEU:HD23	1:1:405:ILE:HG22	1.98	0.46
1:1:492:PHE:CE1	1:2:98:LEU:HD23	2.50	0.46
1:3:92:HIS:CG	1:3:239:TRP:CB	2.94	0.46
1:3:98:LEU:HD23	1:4:492:PHE:CE1	2.50	0.46
1:3:114:TRP:CD1	1:3:259:ILE:HD12	2.51	0.46
1:3:413:ASP:H	1:3:633:GLU:HB3	1.80	0.46
1:7:288:LEU:O	1:7:640:ARG:HA	2.14	0.46
1:8:413:ASP:N	1:8:633:GLU:HB3	2.30	0.46
1:B:114:TRP:CD1	1:B:259:ILE:HD12	2.51	0.46
1:B:492:PHE:CE1	1:J:98:LEU:HD23	2.50	0.46
1:C:603:ASN:OD1	1:C:603:ASN:N	2.47	0.46
1:E:96:LEU:H	1:E:96:LEU:CD2	2.03	0.46
1:G:135:LYS:HD2	1:G:641:SER:OG	2.15	0.46
1:G:179:LEU:HD11	1:G:559:VAL:HG22	1.97	0.46
1:H:96:LEU:N	1:H:96:LEU:CD2	2.73	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:405:ILE:HG22	1:Y:334:LEU:HD23	1.98	0.46
1:J:148:GLN:HG3	1:J:276:THR:CG2	2.44	0.46
1:K:96:LEU:H	1:K:96:LEU:CD2	2.03	0.46
1:N:492:PHE:CE1	1:P:98:LEU:HD23	2.50	0.46
1:P:413:ASP:N	1:P:633:GLU:HB3	2.30	0.46
1:R:405:ILE:HG22	1:U:334:LEU:HD23	1.98	0.46
1:S:135:LYS:HD2	1:S:641:SER:OG	2.15	0.46
1:S:413:ASP:N	1:S:633:GLU:HB3	2.30	0.46
1:W:114:TRP:CD1	1:W:259:ILE:HD12	2.51	0.46
1:X:413:ASP:N	1:X:633:GLU:HB3	2.30	0.46
1:Y:288:LEU:O	1:Y:640:ARG:HA	2.14	0.46
1:Z:413:ASP:N	1:Z:633:GLU:HB3	2.30	0.46
1:Z:492:PHE:CE1	1:4:98:LEU:HD23	2.51	0.46
1:e:288:LEU:O	1:e:640:ARG:HA	2.14	0.46
1:f:405:ILE:HG22	1:g:334:LEU:HD23	1.97	0.46
1:h:135:LYS:HD2	1:h:641:SER:OG	2.15	0.46
1:i:492:PHE:CE1	1:j:98:LEU:HD23	2.50	0.46
1:k:163:GLN:OE1	1:k:163:GLN:HA	2.13	0.46
1:m:148:GLN:HG3	1:m:276:THR:CG2	2.44	0.46
1:m:288:LEU:O	1:m:640:ARG:HA	2.14	0.46
1:m:403:ARG:HD3	1:m:460:GLU:HA	1.97	0.46
1:n:413:ASP:N	1:n:633:GLU:HB3	2.30	0.46
1:o:403:ARG:HD3	1:o:460:GLU:HA	1.97	0.46
1:q:405:ILE:HG22	1:s:334:LEU:HD23	1.98	0.46
1:w:135:LYS:HD2	1:w:641:SER:OG	2.15	0.46
1:w:192:THR:H	1:w:556:GLN:NE2	2.06	0.46
1:w:492:PHE:CE1	1:x:98:LEU:HD23	2.50	0.46
1:x:114:TRP:CD1	1:x:259:ILE:HD12	2.51	0.46
1:y:382:TRP:CG	1:y:464:TRP:HA	2.50	0.46
1:z:148:GLN:HG3	1:z:276:THR:CG2	2.44	0.46
1:z:179:LEU:HD11	1:z:559:VAL:HG22	1.97	0.46
1:z:235:GLU:C	1:z:236:THR:HG22	2.40	0.46
1:1:114:TRP:CD1	1:1:259:ILE:HD12	2.51	0.46
1:4:90:LYS:NZ	1:4:244:ASP:OD2	2.32	0.46
1:4:603:ASN:N	1:4:603:ASN:OD1	2.47	0.46
1:5:98:LEU:HD23	1:7:492:PHE:CE1	2.50	0.46
1:6:413:ASP:H	1:6:633:GLU:HB3	1.80	0.46
1:8:135:LYS:HD2	1:8:641:SER:OG	2.15	0.46
1:A:345:LYS:HB3	1:G:103:TYR:CE1	2.51	0.46
1:A:403:ARG:HD3	1:A:460:GLU:HA	1.97	0.46
1:D:114:TRP:CD1	1:D:259:ILE:HD12	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:48:THR:HG22	1:G:261:ASN:O	2.14	0.46
1:F:179:LEU:HD11	1:F:559:VAL:HG22	1.97	0.46
1:F:382:TRP:CG	1:F:464:TRP:HA	2.50	0.46
1:H:98:LEU:HD23	1:Y:492:PHE:CE1	2.50	0.46
1:I:179:LEU:HD11	1:I:559:VAL:HG22	1.97	0.46
1:K:98:LEU:HD23	1:8:492:PHE:CE1	2.51	0.46
1:K:179:LEU:HD11	1:K:559:VAL:HG22	1.97	0.46
1:K:413:ASP:H	1:K:633:GLU:HB3	1.80	0.46
1:L:413:ASP:N	1:L:633:GLU:HB3	2.30	0.46
1:M:114:TRP:CD1	1:M:259:ILE:HD12	2.51	0.46
1:M:141:ILE:HG23	1:M:288:LEU:HD11	1.98	0.46
1:N:413:ASP:N	1:N:633:GLU:HB3	2.30	0.46
1:O:413:ASP:H	1:O:633:GLU:HB3	1.80	0.46
1:O:621:TYR:HD2	1:P:251:GLU:HB2	1.79	0.46
1:P:402:THR:O	1:P:403:ARG:NH2	2.44	0.46
1:P:403:ARG:HD3	1:P:460:GLU:HA	1.97	0.46
1:Q:114:TRP:CD1	1:Q:259:ILE:HD12	2.51	0.46
1:T:135:LYS:HD2	1:T:641:SER:OG	2.15	0.46
1:T:403:ARG:HD3	1:T:460:GLU:HA	1.97	0.46
1:U:413:ASP:H	1:U:633:GLU:HB3	1.80	0.46
1:V:114:TRP:CD1	1:V:259:ILE:HD12	2.51	0.46
1:W:413:ASP:N	1:W:633:GLU:HB3	2.30	0.46
1:X:403:ARG:HD3	1:X:460:GLU:HA	1.97	0.46
1:X:405:ILE:HG22	1:e:334:LEU:HD23	1.97	0.46
1:Y:402:THR:O	1:Y:403:ARG:NH2	2.44	0.46
1:Z:135:LYS:HD2	1:Z:641:SER:OG	2.15	0.46
1:Z:334:LEU:HD23	1:4:405:ILE:HG22	1.98	0.46
1:a:114:TRP:CD1	1:a:259:ILE:HD12	2.51	0.46
1:c:288:LEU:O	1:c:640:ARG:HA	2.14	0.46
1:d:413:ASP:N	1:d:633:GLU:HB3	2.30	0.46
1:h:141:ILE:HG23	1:h:288:LEU:HD11	1.98	0.46
1:j:251:GLU:HB2	1:l:621:TYR:HD2	1.79	0.46
1:j:413:ASP:N	1:j:633:GLU:HB3	2.30	0.46
1:k:114:TRP:CD1	1:k:259:ILE:HD12	2.51	0.46
1:n:135:LYS:HD2	1:n:641:SER:OG	2.15	0.46
1:o:235:GLU:C	1:o:236:THR:HG22	2.40	0.46
1:o:413:ASP:N	1:o:633:GLU:HB3	2.30	0.46
1:o:492:PHE:CE1	1:p:98:LEU:HD23	2.51	0.46
1:p:382:TRP:CG	1:p:464:TRP:HA	2.50	0.46
1:q:492:PHE:CE1	1:r:98:LEU:HD23	2.50	0.46
1:s:413:ASP:H	1:s:633:GLU:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:179:LEU:HD11	1:t:559:VAL:HG22	1.97	0.46
1:u:179:LEU:HD11	1:u:559:VAL:HG22	1.97	0.46
1:y:179:LEU:HD11	1:y:559:VAL:HG22	1.97	0.46
1:z:114:TRP:CD1	1:z:259:ILE:HD12	2.51	0.46
1:z:413:ASP:N	1:z:633:GLU:HB3	2.30	0.46
1:2:148:GLN:HG3	1:2:276:THR:CG2	2.44	0.46
1:5:405:ILE:HG22	1:7:334:LEU:HD23	1.98	0.46
1:5:413:ASP:H	1:5:633:GLU:HB3	1.80	0.46
1:6:114:TRP:CD1	1:6:259:ILE:HD12	2.51	0.46
1:7:402:THR:O	1:7:403:ARG:NH2	2.44	0.46
1:7:413:ASP:H	1:7:633:GLU:HB3	1.80	0.46
1:A:103:TYR:CE1	1:I:345:LYS:HB3	2.50	0.46
1:A:114:TRP:CD1	1:A:259:ILE:HD12	2.51	0.46
1:B:382:TRP:CG	1:B:464:TRP:HA	2.50	0.46
1:C:492:PHE:CE1	1:b:98:LEU:HD23	2.50	0.46
1:D:403:ARG:HD3	1:D:460:GLU:HA	1.97	0.46
1:E:103:TYR:CE1	1:F:345:LYS:HB3	2.51	0.46
1:E:148:GLN:HG3	1:E:276:THR:CG2	2.44	0.46
1:L:114:TRP:CD1	1:L:259:ILE:HD12	2.51	0.46
1:O:141:ILE:HG23	1:O:288:LEU:HD11	1.98	0.46
1:O:334:LEU:HD23	1:m:405:ILE:HG22	1.98	0.46
1:O:405:ILE:HG22	1:n:334:LEU:HD23	1.98	0.46
1:P:382:TRP:CG	1:P:464:TRP:HA	2.50	0.46
1:Q:141:ILE:HG23	1:Q:288:LEU:HD11	1.98	0.46
1:R:141:ILE:HG23	1:R:288:LEU:HD11	1.98	0.46
1:R:413:ASP:N	1:R:633:GLU:HB3	2.30	0.46
1:R:492:PHE:CE1	1:S:98:LEU:HD23	2.50	0.46
1:S:141:ILE:HG23	1:S:288:LEU:HD11	1.98	0.46
1:S:235:GLU:C	1:S:236:THR:HG22	2.40	0.46
1:T:405:ILE:HG22	1:l:334:LEU:HD23	1.98	0.46
1:V:103:TYR:CE1	1:X:345:LYS:HB3	2.50	0.46
1:W:135:LYS:HD2	1:W:641:SER:OG	2.15	0.46
1:W:413:ASP:H	1:W:633:GLU:HB3	1.80	0.46
1:W:492:PHE:CE1	1:Y:98:LEU:HD23	2.50	0.46
1:X:235:GLU:C	1:X:236:THR:HG22	2.40	0.46
1:Y:413:ASP:H	1:Y:633:GLU:HB3	1.80	0.46
1:Z:382:TRP:CG	1:Z:464:TRP:HA	2.50	0.46
1:d:135:LYS:HD2	1:d:641:SER:OG	2.15	0.46
1:d:334:LEU:HD23	1:l:405:ILE:HG22	1.98	0.46
1:d:492:PHE:CE1	1:l:98:LEU:HD23	2.50	0.46
1:f:98:LEU:HD23	1:g:492:PHE:CE1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:603:ASN:OD1	1:g:603:ASN:N	2.47	0.46
1:h:114:TRP:CD1	1:h:259:ILE:HD12	2.51	0.46
1:i:413:ASP:N	1:i:633:GLU:HB3	2.30	0.46
1:m:135:LYS:HD2	1:m:641:SER:OG	2.15	0.46
1:o:334:LEU:HD23	1:p:405:ILE:HG22	1.98	0.46
1:q:141:ILE:HG23	1:q:288:LEU:HD11	1.98	0.46
1:q:413:ASP:N	1:q:633:GLU:HB3	2.30	0.46
1:r:141:ILE:HG23	1:r:288:LEU:HD11	1.98	0.46
1:r:235:GLU:C	1:r:236:THR:HG22	2.40	0.46
1:t:103:TYR:CE1	1:v:345:LYS:HB3	2.51	0.46
1:v:403:ARG:HD3	1:v:460:GLU:HA	1.97	0.46
1:x:141:ILE:HG23	1:x:288:LEU:HD11	1.98	0.46
1:3:402:THR:O	1:3:403:ARG:NH2	2.44	0.46
1:4:179:LEU:HD11	1:4:559:VAL:HG22	1.97	0.46
1:4:413:ASP:H	1:4:633:GLU:HB3	1.80	0.46
1:5:218:HIS:CE1	1:5:255:ASN:H	2.34	0.46
1:6:413:ASP:N	1:6:633:GLU:HB3	2.30	0.46
1:A:402:THR:HG21	1:I:336:HIS:HE1	1.78	0.46
1:B:135:LYS:HD2	1:B:641:SER:OG	2.15	0.46
1:C:141:ILE:HG23	1:C:288:LEU:HD11	1.98	0.46
1:E:192:THR:H	1:E:556:GLN:NE2	2.06	0.46
1:E:488:GLN:HG3	1:E:489:GLU:N	2.31	0.46
1:H:114:TRP:CD1	1:H:259:ILE:HD12	2.51	0.46
1:H:135:LYS:HD2	1:H:641:SER:OG	2.15	0.46
1:H:218:HIS:CE1	1:H:255:ASN:H	2.34	0.46
1:H:413:ASP:H	1:H:633:GLU:HB3	1.80	0.46
1:J:179:LEU:HD11	1:J:559:VAL:HG22	1.97	0.46
1:K:141:ILE:HG23	1:K:288:LEU:HD11	1.98	0.46
1:L:90:LYS:NZ	1:L:244:ASP:OD2	2.32	0.46
1:M:235:GLU:O	1:M:236:THR:CG2	2.64	0.46
1:Q:192:THR:H	1:Q:556:GLN:NE2	2.06	0.46
1:Q:403:ARG:HD3	1:Q:460:GLU:HA	1.97	0.46
1:T:98:LEU:HD23	1:l:492:PHE:CE1	2.51	0.46
1:T:114:TRP:CD1	1:T:259:ILE:HD12	2.51	0.46
1:V:192:THR:H	1:V:556:GLN:NE2	2.06	0.46
1:V:382:TRP:CG	1:V:464:TRP:HA	2.50	0.46
1:V:403:ARG:HD3	1:V:460:GLU:HA	1.97	0.46
1:W:218:HIS:CE1	1:W:255:ASN:H	2.34	0.46
1:X:251:GLU:HB2	1:f:621:TYR:HD2	1.79	0.46
1:Y:141:ILE:HG23	1:Y:288:LEU:HD11	1.98	0.46
1:Y:179:LEU:HD11	1:Y:559:VAL:HG22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:141:ILE:HG23	1:c:288:LEU:HD11	1.98	0.46
1:g:413:ASP:H	1:g:633:GLU:HB3	1.80	0.46
1:h:235:GLU:O	1:h:236:THR:CG2	2.64	0.46
1:j:403:ARG:HD3	1:j:460:GLU:HA	1.97	0.46
1:l:141:ILE:HG23	1:l:288:LEU:HD11	1.98	0.46
1:n:114:TRP:CD1	1:n:259:ILE:HD12	2.51	0.46
1:t:114:TRP:CD1	1:t:259:ILE:HD12	2.51	0.46
1:t:261:ASN:O	1:y:48:THR:HG22	2.14	0.46
1:v:114:TRP:CD1	1:v:259:ILE:HD12	2.51	0.46
1:v:218:HIS:CE1	1:v:255:ASN:H	2.34	0.46
1:w:103:TYR:CE1	1:y:345:LYS:HB3	2.51	0.46
1:w:148:GLN:HG3	1:w:276:THR:CG2	2.44	0.46
1:w:488:GLN:HG3	1:w:489:GLU:N	2.31	0.46
1:x:192:THR:H	1:x:556:GLN:NE2	2.06	0.46
1:x:403:ARG:HD3	1:x:460:GLU:HA	1.97	0.46
1:y:114:TRP:CD1	1:y:259:ILE:HD12	2.51	0.46
1:1:135:LYS:HD2	1:1:641:SER:OG	2.15	0.46
1:1:403:ARG:HD3	1:1:460:GLU:HA	1.97	0.46
1:2:179:LEU:HD11	1:2:559:VAL:HG22	1.97	0.46
1:4:141:ILE:HG23	1:4:288:LEU:HD11	1.98	0.46
1:5:114:TRP:CD1	1:5:259:ILE:HD12	2.51	0.46
1:5:135:LYS:HD2	1:5:641:SER:OG	2.15	0.46
1:6:218:HIS:CE1	1:6:255:ASN:H	2.34	0.46
1:6:492:PHE:CE1	1:7:98:LEU:HD23	2.50	0.46
1:7:141:ILE:HG23	1:7:288:LEU:HD11	1.98	0.46
1:A:218:HIS:CE1	1:A:255:ASN:H	2.34	0.46
1:B:251:GLU:HB2	1:C:621:TYR:HD2	1.79	0.46
1:B:403:ARG:HD3	1:B:460:GLU:HA	1.97	0.46
1:C:135:LYS:HD2	1:C:641:SER:OG	2.15	0.46
1:F:114:TRP:CD1	1:F:259:ILE:HD12	2.51	0.46
1:G:114:TRP:CD1	1:G:259:ILE:HD12	2.51	0.46
1:K:488:GLN:HG3	1:K:489:GLU:N	2.31	0.46
1:N:488:GLN:HG3	1:N:489:GLU:N	2.31	0.46
1:O:98:LEU:HD23	1:n:492:PHE:CE1	2.51	0.46
1:O:492:PHE:CE1	1:m:98:LEU:HD23	2.51	0.46
1:P:218:HIS:CE1	1:P:255:ASN:H	2.34	0.46
1:Q:179:LEU:HD11	1:Q:559:VAL:HG22	1.97	0.46
1:R:98:LEU:HD23	1:U:492:PHE:CE1	2.50	0.46
1:R:135:LYS:HD2	1:R:641:SER:OG	2.15	0.46
1:S:488:GLN:HG3	1:S:489:GLU:N	2.31	0.46
1:U:114:TRP:CD1	1:U:259:ILE:HD12	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:413:ASP:H	1:V:633:GLU:HB3	1.80	0.46
1:Y:114:TRP:CD1	1:Y:259:ILE:HD12	2.51	0.46
1:Z:218:HIS:CE1	1:Z:255:ASN:H	2.34	0.46
1:b:135:LYS:HD2	1:b:641:SER:OG	2.15	0.46
1:c:382:TRP:CG	1:c:464:TRP:HA	2.50	0.46
1:c:488:GLN:HG3	1:c:489:GLU:N	2.31	0.46
1:d:114:TRP:CD1	1:d:259:ILE:HD12	2.51	0.46
1:d:235:GLU:O	1:d:236:THR:CG2	2.64	0.46
1:e:141:ILE:HG23	1:e:288:LEU:HD11	1.98	0.46
1:e:192:THR:H	1:e:556:GLN:NE2	2.06	0.46
1:f:218:HIS:CE1	1:f:255:ASN:H	2.34	0.46
1:f:403:ARG:HD3	1:f:460:GLU:HA	1.97	0.46
1:g:141:ILE:HG23	1:g:288:LEU:HD11	1.98	0.46
1:g:621:TYR:HD2	1:1:251:GLU:HB2	1.79	0.46
1:j:382:TRP:CG	1:j:464:TRP:HA	2.50	0.46
1:j:402:THR:O	1:j:403:ARG:NH2	2.44	0.46
1:k:403:ARG:HD3	1:k:460:GLU:HA	1.97	0.46
1:l:192:THR:H	1:l:556:GLN:NE2	2.06	0.46
1:n:235:GLU:O	1:n:236:THR:CG2	2.64	0.46
1:p:403:ARG:HD3	1:p:460:GLU:HA	1.97	0.46
1:p:413:ASP:N	1:p:633:GLU:HB3	2.30	0.46
1:q:98:LEU:HD23	1:s:492:PHE:CE1	2.50	0.46
1:r:114:TRP:CD1	1:r:259:ILE:HD12	2.51	0.46
1:r:488:GLN:HG3	1:r:489:GLU:N	2.31	0.46
1:s:114:TRP:CD1	1:s:259:ILE:HD12	2.51	0.46
1:y:603:ASN:OD1	1:y:603:ASN:N	2.47	0.46
1:1:141:ILE:HG23	1:1:288:LEU:HD11	1.98	0.46
1:1:382:TRP:CG	1:1:464:TRP:HA	2.50	0.46
1:1:488:GLN:HG3	1:1:489:GLU:N	2.31	0.46
1:6:135:LYS:HD2	1:6:641:SER:OG	2.15	0.46
1:6:313:LYS:O	1:6:316:SER:OG	2.26	0.46
1:7:179:LEU:HD11	1:7:559:VAL:HG22	1.97	0.46
1:8:382:TRP:CG	1:8:464:TRP:HA	2.50	0.46
1:8:488:GLN:HG3	1:8:489:GLU:N	2.31	0.46
1:B:141:ILE:HG23	1:B:288:LEU:HD11	1.98	0.46
1:B:488:GLN:HG3	1:B:489:GLU:N	2.31	0.46
1:C:413:ASP:H	1:C:633:GLU:HB3	1.80	0.46
1:D:251:GLU:HB2	1:E:621:TYR:HD2	1.79	0.46
1:D:413:ASP:H	1:D:633:GLU:HB3	1.80	0.46
1:E:413:ASP:N	1:E:633:GLU:HB3	2.30	0.46
1:F:135:LYS:HD2	1:F:641:SER:OG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:603:ASN:N	1:F:603:ASN:OD1	2.47	0.46
1:G:334:LEU:HD23	1:I:405:ILE:HG22	1.98	0.46
1:G:488:GLN:HG3	1:G:489:GLU:N	2.31	0.46
1:I:114:TRP:CD1	1:I:259:ILE:HD12	2.51	0.46
1:N:218:HIS:CE1	1:N:255:ASN:H	2.34	0.46
1:P:141:ILE:HG23	1:P:288:LEU:HD11	1.98	0.46
1:S:334:LEU:HD23	1:U:405:ILE:HG22	1.98	0.46
1:T:218:HIS:CE1	1:T:255:ASN:H	2.34	0.46
1:V:413:ASP:N	1:V:633:GLU:HB3	2.30	0.46
1:W:141:ILE:HG23	1:W:288:LEU:HD11	1.98	0.46
1:X:114:TRP:CD1	1:X:259:ILE:HD12	2.51	0.46
1:Z:488:GLN:HG3	1:Z:489:GLU:N	2.31	0.46
1:a:402:THR:O	1:a:403:ARG:NH2	2.44	0.46
1:b:218:HIS:CE1	1:b:255:ASN:H	2.34	0.46
1:b:403:ARG:HD3	1:b:460:GLU:HA	1.97	0.46
1:e:382:TRP:CG	1:e:464:TRP:HA	2.50	0.46
1:e:488:GLN:HG3	1:e:489:GLU:N	2.31	0.46
1:f:135:LYS:HD2	1:f:641:SER:OG	2.15	0.46
1:g:135:LYS:HD2	1:g:641:SER:OG	2.15	0.46
1:h:413:ASP:N	1:h:633:GLU:HB3	2.30	0.46
1:i:218:HIS:CE1	1:i:255:ASN:H	2.34	0.46
1:i:334:LEU:HD23	1:j:405:ILE:HG22	1.98	0.46
1:i:488:GLN:HG3	1:i:489:GLU:N	2.31	0.46
1:j:141:ILE:HG23	1:j:288:LEU:HD11	1.98	0.46
1:j:334:LEU:HD23	1:k:405:ILE:HG22	1.98	0.46
1:k:251:GLU:HB2	1:w:621:TYR:HD2	1.79	0.46
1:m:114:TRP:CD1	1:m:259:ILE:HD12	2.51	0.46
1:o:114:TRP:CD1	1:o:259:ILE:HD12	2.51	0.46
1:q:135:LYS:HD2	1:q:641:SER:OG	2.15	0.46
1:q:336:HIS:HE1	1:r:402:THR:HG21	1.78	0.46
1:r:334:LEU:HD23	1:s:405:ILE:HG22	1.98	0.46
1:t:334:LEU:HD23	1:u:405:ILE:HG22	1.98	0.46
1:t:488:GLN:HG3	1:t:489:GLU:N	2.31	0.46
1:u:114:TRP:CD1	1:u:259:ILE:HD12	2.51	0.46
1:u:403:ARG:HD3	1:u:460:GLU:HA	1.97	0.46
1:w:413:ASP:N	1:w:633:GLU:HB3	2.30	0.46
1:x:179:LEU:HD11	1:x:559:VAL:HG22	1.97	0.46
1:4:114:TRP:CD1	1:4:259:ILE:HD12	2.51	0.46
1:4:488:GLN:HG3	1:4:489:GLU:N	2.31	0.46
1:5:492:PHE:CE1	1:6:98:LEU:HD23	2.50	0.46
1:7:114:TRP:CD1	1:7:259:ILE:HD12	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:218:HIS:CE1	1:8:255:ASN:H	2.34	0.46
1:A:141:ILE:HG23	1:A:288:LEU:HD11	1.98	0.46
1:A:413:ASP:H	1:A:633:GLU:HB3	1.80	0.46
1:D:405:ILE:HG22	1:P:334:LEU:HD23	1.98	0.46
1:H:492:PHE:CE1	1:W:98:LEU:HD23	2.50	0.46
1:I:403:ARG:HD3	1:I:460:GLU:HA	1.97	0.46
1:J:488:GLN:HG3	1:J:489:GLU:N	2.31	0.46
1:K:114:TRP:CD1	1:K:259:ILE:HD12	2.51	0.46
1:L:218:HIS:CE1	1:L:255:ASN:H	2.34	0.46
1:M:413:ASP:N	1:M:633:GLU:HB3	2.30	0.46
1:O:179:LEU:HD11	1:O:559:VAL:HG22	1.97	0.46
1:O:192:THR:H	1:O:556:GLN:NE2	2.06	0.46
1:O:235:GLU:O	1:O:236:THR:CG2	2.64	0.46
1:R:336:HIS:HE1	1:S:402:THR:HG21	1.78	0.46
1:S:114:TRP:CD1	1:S:259:ILE:HD12	2.51	0.46
1:V:226:TYR:O	1:V:229:ILE:HG23	2.16	0.46
1:W:226:TYR:O	1:W:229:ILE:HG23	2.16	0.46
1:W:336:HIS:HE1	1:Y:402:THR:HG21	1.78	0.46
1:Z:103:TYR:CE1	1:3:345:LYS:HB3	2.51	0.46
1:a:413:ASP:N	1:a:633:GLU:HB3	2.30	0.46
1:b:488:GLN:HG3	1:b:489:GLU:N	2.31	0.46
1:f:488:GLN:HG3	1:f:489:GLU:N	2.31	0.46
1:j:218:HIS:CE1	1:j:255:ASN:H	2.34	0.46
1:l:235:GLU:O	1:l:236:THR:CG2	2.64	0.46
1:m:218:HIS:CE1	1:m:255:ASN:H	2.34	0.46
1:p:226:TYR:O	1:p:229:ILE:HG23	2.16	0.46
1:p:413:ASP:H	1:p:633:GLU:HB3	1.80	0.46
1:t:98:LEU:HD23	1:v:492:PHE:CE1	2.51	0.46
1:v:141:ILE:HG23	1:v:288:LEU:HD11	1.98	0.46
1:v:413:ASP:H	1:v:633:GLU:HB3	1.80	0.46
1:w:235:GLU:O	1:w:236:THR:CG2	2.64	0.46
1:3:218:HIS:CE1	1:3:255:ASN:H	2.34	0.46
1:3:413:ASP:N	1:3:633:GLU:HB3	2.30	0.46
1:5:148:GLN:HG3	1:5:276:THR:CG2	2.44	0.46
1:6:226:TYR:O	1:6:229:ILE:HG23	2.16	0.46
1:6:382:TRP:CG	1:6:464:TRP:HA	2.50	0.46
1:7:218:HIS:CE1	1:7:255:ASN:H	2.34	0.46
1:B:218:HIS:CE1	1:B:255:ASN:H	2.34	0.46
1:C:98:LEU:HD23	1:M:492:PHE:CE1	2.51	0.46
1:C:402:THR:HG21	1:M:336:HIS:HE1	1.78	0.46
1:D:235:GLU:O	1:D:236:THR:CG2	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:235:GLU:O	1:E:236:THR:CG2	2.64	0.46
1:J:114:TRP:CD1	1:J:259:ILE:HD12	2.51	0.46
1:J:403:ARG:HD3	1:J:460:GLU:HA	1.97	0.46
1:K:135:LYS:HD2	1:K:641:SER:OG	2.15	0.46
1:M:313:LYS:O	1:M:316:SER:OG	2.26	0.46
1:P:114:TRP:CD1	1:P:259:ILE:HD12	2.51	0.46
1:P:488:GLN:HG3	1:P:489:GLU:N	2.31	0.46
1:Q:148:GLN:HG3	1:Q:276:THR:CG2	2.44	0.46
1:U:141:ILE:HG23	1:U:288:LEU:HD11	1.98	0.46
1:W:313:LYS:O	1:W:316:SER:OG	2.26	0.46
1:W:345:LYS:HB3	1:Y:103:TYR:CE1	2.51	0.46
1:W:382:TRP:CG	1:W:464:TRP:HA	2.50	0.46
1:Y:218:HIS:CE1	1:Y:255:ASN:H	2.34	0.46
1:Z:141:ILE:HG23	1:Z:288:LEU:HD11	1.98	0.46
1:a:218:HIS:CE1	1:a:255:ASN:H	2.34	0.46
1:a:345:LYS:HB3	1:8:103:TYR:CE1	2.51	0.46
1:c:114:TRP:CD1	1:c:259:ILE:HD12	2.51	0.46
1:c:192:THR:H	1:c:556:GLN:NE2	2.06	0.46
1:c:402:THR:O	1:c:403:ARG:NH2	2.44	0.46
1:d:226:TYR:O	1:d:229:ILE:HG23	2.16	0.46
1:f:114:TRP:CD1	1:f:259:ILE:HD12	2.51	0.46
1:f:413:ASP:N	1:f:633:GLU:HB3	2.30	0.46
1:g:402:THR:HG21	1:h:336:HIS:HE1	1.78	0.46
1:h:403:ARG:HD3	1:h:460:GLU:HA	1.97	0.46
1:i:141:ILE:HG23	1:i:288:LEU:HD11	1.98	0.46
1:k:235:GLU:O	1:k:236:THR:CG2	2.64	0.46
1:k:413:ASP:H	1:k:633:GLU:HB3	1.80	0.46
1:l:179:LEU:HD11	1:l:559:VAL:HG22	1.97	0.46
1:q:488:GLN:HG3	1:q:489:GLU:N	2.31	0.46
1:x:148:GLN:HG3	1:x:276:THR:CG2	2.44	0.46
1:y:135:LYS:HD2	1:y:641:SER:OG	2.15	0.46
1:z:218:HIS:CE1	1:z:255:ASN:H	2.34	0.46
1:1:218:HIS:CE1	1:1:255:ASN:H	2.34	0.46
1:2:114:TRP:CD1	1:2:259:ILE:HD12	2.51	0.46
1:2:488:GLN:HG3	1:2:489:GLU:N	2.31	0.46
1:6:141:ILE:HG23	1:6:288:LEU:HD11	1.98	0.46
1:A:492:PHE:CE1	1:G:98:LEU:HD23	2.51	0.45
1:D:135:LYS:HD2	1:D:641:SER:OG	2.15	0.45
1:F:235:GLU:O	1:F:236:THR:CG2	2.64	0.45
1:H:148:GLN:HG3	1:H:276:THR:CG2	2.44	0.45
1:J:226:TYR:O	1:J:229:ILE:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:103:TYR:CE1	1:b:345:LYS:HB3	2.51	0.45
1:M:403:ARG:HD3	1:M:460:GLU:HA	1.97	0.45
1:M:405:ILE:HG22	1:b:334:LEU:HD23	1.98	0.45
1:N:334:LEU:HD23	1:P:405:ILE:HG22	1.98	0.45
1:R:114:TRP:CD1	1:R:259:ILE:HD12	2.51	0.45
1:R:488:GLN:HG3	1:R:489:GLU:N	2.31	0.45
1:T:141:ILE:HG23	1:T:288:LEU:HD11	1.98	0.45
1:W:334:LEU:HD23	1:Y:405:ILE:HG22	1.98	0.45
1:X:402:THR:O	1:X:403:ARG:NH2	2.44	0.45
1:Z:98:LEU:HD23	1:3:492:PHE:CE1	2.50	0.45
1:a:488:GLN:HG3	1:a:489:GLU:N	2.31	0.45
1:b:114:TRP:CD1	1:b:259:ILE:HD12	2.51	0.45
1:b:413:ASP:N	1:b:633:GLU:HB3	2.30	0.45
1:e:114:TRP:CD1	1:e:259:ILE:HD12	2.51	0.45
1:f:334:LEU:HD23	1:h:405:ILE:HG22	1.98	0.45
1:f:402:THR:O	1:f:403:ARG:NH2	2.44	0.45
1:f:413:ASP:H	1:f:633:GLU:HB3	1.80	0.45
1:g:98:LEU:HD23	1:h:492:PHE:CE1	2.51	0.45
1:h:313:LYS:O	1:h:316:SER:OG	2.26	0.45
1:i:413:ASP:H	1:i:633:GLU:HB3	1.80	0.45
1:j:114:TRP:CD1	1:j:259:ILE:HD12	2.51	0.45
1:k:135:LYS:HD2	1:k:641:SER:OG	2.15	0.45
1:l:114:TRP:CD1	1:l:259:ILE:HD12	2.51	0.45
1:m:141:ILE:HG23	1:m:288:LEU:HD11	1.98	0.45
1:m:488:GLN:HG3	1:m:489:GLU:N	2.31	0.45
1:n:226:TYR:O	1:n:229:ILE:HG23	2.16	0.45
1:y:148:GLN:HG3	1:y:276:THR:CG2	2.44	0.45
1:2:226:TYR:O	1:2:229:ILE:HG23	2.16	0.45
1:2:403:ARG:HD3	1:2:460:GLU:HA	1.97	0.45
1:6:334:LEU:HD23	1:7:405:ILE:HG22	1.98	0.45
1:6:345:LYS:HB3	1:7:103:TYR:CE1	2.52	0.45
1:7:413:ASP:N	1:7:633:GLU:HB3	2.30	0.45
1:8:141:ILE:HG23	1:8:288:LEU:HD11	1.98	0.45
1:B:226:TYR:O	1:B:229:ILE:HG23	2.16	0.45
1:C:403:ARG:HD3	1:C:460:GLU:HA	1.97	0.45
1:F:148:GLN:HG3	1:F:276:THR:CG2	2.44	0.45
1:F:413:ASP:N	1:F:633:GLU:HB3	2.30	0.45
1:G:413:ASP:N	1:G:633:GLU:HB3	2.30	0.45
1:H:103:TYR:CE1	1:Y:345:LYS:HB3	2.51	0.45
1:H:226:TYR:O	1:H:229:ILE:HG23	2.16	0.45
1:L:235:GLU:O	1:L:236:THR:CG2	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:96:LEU:N	1:N:96:LEU:CD2	2.73	0.45
1:N:141:ILE:HG23	1:N:288:LEU:HD11	1.98	0.45
1:O:114:TRP:CD1	1:O:259:ILE:HD12	2.51	0.45
1:Q:413:ASP:N	1:Q:633:GLU:HB3	2.30	0.45
1:R:218:HIS:CE1	1:R:255:ASN:H	2.34	0.45
1:R:345:LYS:HB3	1:S:103:TYR:CE1	2.52	0.45
1:R:403:ARG:HG2	1:U:339:GLY:O	2.17	0.45
1:T:488:GLN:HG3	1:T:489:GLU:N	2.31	0.45
1:T:492:PHE:CE1	1:d:98:LEU:HD23	2.50	0.45
1:T:621:TYR:HD2	1:U:251:GLU:HB2	1.79	0.45
1:U:382:TRP:CG	1:U:464:TRP:HA	2.50	0.45
1:W:488:GLN:HG3	1:W:489:GLU:N	2.31	0.45
1:X:98:LEU:HD23	1:e:492:PHE:CE1	2.52	0.45
1:Y:413:ASP:N	1:Y:633:GLU:HB3	2.30	0.45
1:a:492:PHE:CE1	1:8:98:LEU:HD23	2.50	0.45
1:c:345:LYS:HB3	1:o:103:TYR:CE1	2.51	0.45
1:f:96:LEU:H	1:f:96:LEU:CD2	2.03	0.45
1:f:345:LYS:HB3	1:h:103:TYR:CE1	2.51	0.45
1:g:403:ARG:HD3	1:g:460:GLU:HA	1.97	0.45
1:j:488:GLN:HG3	1:j:489:GLU:N	2.31	0.45
1:l:488:GLN:HG3	1:l:489:GLU:N	2.31	0.45
1:n:218:HIS:CE1	1:n:255:ASN:H	2.34	0.45
1:o:192:THR:H	1:o:556:GLN:NE2	2.06	0.45
1:p:218:HIS:CE1	1:p:255:ASN:H	2.34	0.45
1:q:218:HIS:CE1	1:q:255:ASN:H	2.34	0.45
1:q:345:LYS:HB3	1:r:103:TYR:CE1	2.52	0.45
1:r:148:GLN:HG3	1:r:276:THR:CG2	2.44	0.45
1:s:141:ILE:HG23	1:s:288:LEU:HD11	1.98	0.45
1:v:192:THR:H	1:v:556:GLN:NE2	2.06	0.45
1:y:235:GLU:O	1:y:236:THR:CG2	2.64	0.45
1:1:226:TYR:O	1:1:229:ILE:HG23	2.16	0.45
1:3:488:GLN:HG3	1:3:489:GLU:N	2.31	0.45
1:4:135:LYS:HD2	1:4:641:SER:OG	2.15	0.45
1:5:103:TYR:CE1	1:7:345:LYS:HB3	2.52	0.45
1:7:226:TYR:O	1:7:229:ILE:HG23	2.16	0.45
1:A:192:THR:H	1:A:556:GLN:NE2	2.06	0.45
1:B:103:TYR:CE1	1:L:345:LYS:HB3	2.52	0.45
1:C:235:GLU:O	1:C:236:THR:CG2	2.64	0.45
1:D:103:TYR:CE1	1:P:345:LYS:HB3	2.52	0.45
1:D:336:HIS:HE1	1:N:402:THR:HG21	1.78	0.45
1:D:403:ARG:HG2	1:P:339:GLY:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:98:LEU:HD23	1:F:492:PHE:CE1	2.51	0.45
1:H:235:GLU:O	1:H:236:THR:CG2	2.64	0.45
1:H:251:GLU:HB2	1:Z:621:TYR:HD2	1.79	0.45
1:K:218:HIS:CE1	1:K:255:ASN:H	2.34	0.45
1:K:226:TYR:O	1:K:229:ILE:HG23	2.16	0.45
1:K:334:LEU:HD23	1:a:405:ILE:HG22	1.97	0.45
1:K:345:LYS:HB3	1:a:103:TYR:CE1	2.52	0.45
1:L:226:TYR:O	1:L:229:ILE:HG23	2.16	0.45
1:N:413:ASP:H	1:N:633:GLU:HB3	1.80	0.45
1:O:345:LYS:HB3	1:m:103:TYR:CE1	2.51	0.45
1:O:488:GLN:HG3	1:O:489:GLU:N	2.31	0.45
1:Q:488:GLN:HG3	1:Q:489:GLU:N	2.31	0.45
1:X:192:THR:H	1:X:556:GLN:NE2	2.06	0.45
1:X:218:HIS:CE1	1:X:255:ASN:H	2.34	0.45
1:X:235:GLU:O	1:X:236:THR:CG2	2.64	0.45
1:Y:226:TYR:O	1:Y:229:ILE:HG23	2.16	0.45
1:Z:403:ARG:HG2	1:3:339:GLY:O	2.17	0.45
1:Z:405:ILE:HG22	1:3:334:LEU:HD23	1.98	0.45
1:a:339:GLY:O	1:8:403:ARG:HG2	2.17	0.45
1:a:403:ARG:HD3	1:a:460:GLU:HA	1.97	0.45
1:b:96:LEU:H	1:b:96:LEU:CD2	2.03	0.45
1:c:235:GLU:O	1:c:236:THR:CG2	2.64	0.45
1:d:218:HIS:CE1	1:d:255:ASN:H	2.34	0.45
1:d:488:GLN:HG3	1:d:489:GLU:N	2.31	0.45
1:e:235:GLU:O	1:e:236:THR:CG2	2.64	0.45
1:h:226:TYR:O	1:h:229:ILE:HG23	2.16	0.45
1:j:339:GLY:O	1:k:403:ARG:HG2	2.17	0.45
1:j:345:LYS:HB3	1:k:103:TYR:CE1	2.52	0.45
1:m:492:PHE:CE1	1:n:98:LEU:HD23	2.50	0.45
1:m:621:TYR:HD2	1:s:251:GLU:HB2	1.79	0.45
1:n:382:TRP:HB2	1:n:463:GLY:O	2.17	0.45
1:n:488:GLN:HG3	1:n:489:GLU:N	2.31	0.45
1:o:218:HIS:CE1	1:o:255:ASN:H	2.34	0.45
1:o:235:GLU:O	1:o:236:THR:CG2	2.64	0.45
1:q:114:TRP:CD1	1:q:259:ILE:HD12	2.51	0.45
1:q:403:ARG:HG2	1:s:339:GLY:O	2.17	0.45
1:s:382:TRP:CG	1:s:464:TRP:HA	2.50	0.45
1:t:141:ILE:HG23	1:t:288:LEU:HD11	1.98	0.45
1:t:413:ASP:N	1:t:633:GLU:HB3	2.30	0.45
1:u:488:GLN:HG3	1:u:489:GLU:N	2.31	0.45
1:v:313:LYS:O	1:v:316:SER:OG	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:345:LYS:HB3	1:x:103:TYR:CE1	2.52	0.45
1:x:413:ASP:N	1:x:633:GLU:HB3	2.30	0.45
1:y:413:ASP:N	1:y:633:GLU:HB3	2.30	0.45
1:z:235:GLU:O	1:z:236:THR:CG2	2.64	0.45
1:z:345:LYS:HB3	1:1:103:TYR:CE1	2.52	0.45
1:z:488:GLN:HG3	1:z:489:GLU:N	2.31	0.45
1:3:103:TYR:CE1	1:4:345:LYS:HB3	2.51	0.45
1:4:226:TYR:O	1:4:229:ILE:HG23	2.16	0.45
1:5:251:GLU:HB2	1:8:621:TYR:HD2	1.79	0.45
1:6:488:GLN:HG3	1:6:489:GLU:N	2.31	0.45
1:8:403:ARG:HD3	1:8:460:GLU:HA	1.97	0.45
1:A:98:LEU:HD23	1:I:492:PHE:CE1	2.51	0.45
1:B:403:ARG:HG2	1:L:339:GLY:O	2.17	0.45
1:B:601:CYS:HB3	1:J:255:ASN:OD1	2.17	0.45
1:C:345:LYS:HB3	1:b:103:TYR:CE1	2.52	0.45
1:D:488:GLN:HG3	1:D:489:GLU:N	2.31	0.45
1:D:601:CYS:HB3	1:N:255:ASN:OD1	2.17	0.45
1:E:345:LYS:HB3	1:Q:103:TYR:CE1	2.52	0.45
1:G:603:ASN:N	1:G:603:ASN:OD1	2.47	0.45
1:H:339:GLY:O	1:W:403:ARG:HG2	2.17	0.45
1:I:488:GLN:HG3	1:I:489:GLU:N	2.31	0.45
1:J:141:ILE:HG23	1:J:288:LEU:HD11	1.98	0.45
1:J:336:HIS:HE1	1:L:402:THR:HG21	1.78	0.45
1:J:339:GLY:O	1:L:403:ARG:HG2	2.17	0.45
1:M:226:TYR:O	1:M:229:ILE:HG23	2.16	0.45
1:M:382:TRP:HB2	1:M:463:GLY:O	2.17	0.45
1:N:226:TYR:O	1:N:229:ILE:HG23	2.16	0.45
1:N:403:ARG:HD3	1:N:460:GLU:HA	1.97	0.45
1:O:226:TYR:O	1:O:229:ILE:HG23	2.16	0.45
1:Q:218:HIS:CE1	1:Q:255:ASN:H	2.34	0.45
1:S:148:GLN:HG3	1:S:276:THR:CG2	2.44	0.45
1:T:103:TYR:CE1	1:l:345:LYS:HB3	2.51	0.45
1:T:413:ASP:N	1:T:633:GLU:HB3	2.30	0.45
1:V:98:LEU:HD23	1:X:492:PHE:CE1	2.52	0.45
1:V:218:HIS:CE1	1:V:255:ASN:H	2.34	0.45
1:V:405:ILE:HG22	1:X:334:LEU:HD23	1.98	0.45
1:X:488:GLN:HG3	1:X:489:GLU:N	2.31	0.45
1:Y:235:GLU:O	1:Y:236:THR:CG2	2.64	0.45
1:Z:403:ARG:HD3	1:Z:460:GLU:HA	1.97	0.45
1:b:402:THR:O	1:b:403:ARG:NH2	2.44	0.45
1:b:413:ASP:H	1:b:633:GLU:HB3	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:334:LEU:HD23	1:o:405:ILE:HG22	1.98	0.45
1:d:382:TRP:HB2	1:d:463:GLY:O	2.17	0.45
1:e:402:THR:O	1:e:403:ARG:NH2	2.44	0.45
1:g:114:TRP:CD1	1:g:259:ILE:HD12	2.51	0.45
1:h:382:TRP:HB2	1:h:463:GLY:O	2.17	0.45
1:i:255:ASN:OD1	1:k:601:CYS:HB3	2.17	0.45
1:i:403:ARG:HD3	1:i:460:GLU:HA	1.97	0.45
1:j:226:TYR:O	1:j:229:ILE:HG23	2.16	0.45
1:l:226:TYR:O	1:l:229:ILE:HG23	2.16	0.45
1:o:345:LYS:HB3	1:p:103:TYR:CE1	2.51	0.45
1:p:488:GLN:HG3	1:p:489:GLU:N	2.31	0.45
1:s:488:GLN:HG3	1:s:489:GLU:N	2.31	0.45
1:t:148:GLN:HG3	1:t:276:THR:CG2	2.44	0.45
1:t:405:ILE:HG22	1:v:334:LEU:HD23	1.98	0.45
1:v:396:LEU:HD23	1:v:397:GLN:N	2.32	0.45
1:w:98:LEU:HD23	1:y:492:PHE:CE1	2.51	0.45
1:w:114:TRP:CD1	1:w:259:ILE:HD12	2.51	0.45
1:x:218:HIS:CE1	1:x:255:ASN:H	2.34	0.45
1:x:488:GLN:HG3	1:x:489:GLU:N	2.31	0.45
1:z:226:TYR:O	1:z:229:ILE:HG23	2.16	0.45
1:z:339:GLY:O	1:1:403:ARG:HG2	2.17	0.45
1:1:601:CYS:HB3	1:2:255:ASN:OD1	2.17	0.45
1:2:235:GLU:O	1:2:236:THR:CG2	2.64	0.45
1:3:403:ARG:HD3	1:3:460:GLU:HA	1.97	0.45
1:4:218:HIS:CE1	1:4:255:ASN:H	2.34	0.45
1:5:226:TYR:O	1:5:229:ILE:HG23	2.16	0.45
1:5:334:LEU:HD23	1:6:405:ILE:HG22	1.98	0.45
1:5:339:GLY:O	1:6:403:ARG:HG2	2.17	0.45
1:A:396:LEU:HD23	1:A:397:GLN:N	2.32	0.45
1:A:405:ILE:HG22	1:I:334:LEU:HD23	1.98	0.45
1:C:114:TRP:CD1	1:C:259:ILE:HD12	2.51	0.45
1:D:339:GLY:O	1:N:403:ARG:HG2	2.17	0.45
1:E:226:TYR:O	1:E:229:ILE:HG23	2.16	0.45
1:E:403:ARG:HG2	1:F:339:GLY:O	2.17	0.45
1:G:141:ILE:HG23	1:G:288:LEU:HD11	1.98	0.45
1:G:235:GLU:O	1:G:236:THR:CG2	2.64	0.45
1:G:396:LEU:HD23	1:G:397:GLN:N	2.32	0.45
1:H:334:LEU:HD23	1:W:405:ILE:HG22	1.98	0.45
1:H:382:TRP:HB2	1:H:463:GLY:O	2.17	0.45
1:J:235:GLU:O	1:J:236:THR:CG2	2.64	0.45
1:J:396:LEU:HD23	1:J:397:GLN:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:488:GLN:HG3	1:L:489:GLU:N	2.31	0.45
1:N:114:TRP:CD1	1:N:259:ILE:HD12	2.51	0.45
1:N:148:GLN:HG3	1:N:276:THR:CG2	2.44	0.45
1:N:345:LYS:HB3	1:P:103:TYR:CE1	2.51	0.45
1:O:403:ARG:HG2	1:n:339:GLY:O	2.17	0.45
1:P:226:TYR:O	1:P:229:ILE:HG23	2.16	0.45
1:P:621:TYR:HD2	1:Q:251:GLU:HB2	1.79	0.45
1:Q:226:TYR:O	1:Q:229:ILE:HG23	2.16	0.45
1:T:334:LEU:HD23	1:d:405:ILE:HG22	1.97	0.45
1:U:402:THR:O	1:U:403:ARG:NH2	2.44	0.45
1:U:488:GLN:HG3	1:U:489:GLU:N	2.31	0.45
1:W:235:GLU:O	1:W:236:THR:CG2	2.64	0.45
1:W:403:ARG:HD3	1:W:460:GLU:HA	1.97	0.45
1:Y:488:GLN:HG3	1:Y:489:GLU:N	2.31	0.45
1:Z:114:TRP:CD1	1:Z:259:ILE:HD12	2.51	0.45
1:a:334:LEU:HD23	1:8:405:ILE:HG22	1.98	0.45
1:b:382:TRP:HB2	1:b:463:GLY:O	2.17	0.45
1:c:403:ARG:HG2	1:p:339:GLY:O	2.17	0.45
1:f:103:TYR:CE1	1:g:345:LYS:HB3	2.52	0.45
1:g:235:GLU:O	1:g:236:THR:CG2	2.64	0.45
1:i:114:TRP:CD1	1:i:259:ILE:HD12	2.51	0.45
1:i:226:TYR:O	1:i:229:ILE:HG23	2.16	0.45
1:i:345:LYS:HB3	1:j:103:TYR:CE1	2.51	0.45
1:i:402:THR:HG21	1:k:336:HIS:HE1	1.78	0.45
1:i:402:THR:O	1:i:403:ARG:NH2	2.44	0.45
1:j:621:TYR:HD2	1:x:251:GLU:HB2	1.79	0.45
1:k:488:GLN:HG3	1:k:489:GLU:N	2.31	0.45
1:m:334:LEU:HD23	1:n:405:ILE:HG22	1.98	0.45
1:o:402:THR:O	1:o:403:ARG:NH2	2.44	0.45
1:o:488:GLN:HG3	1:o:489:GLU:N	2.31	0.45
1:p:141:ILE:HG23	1:p:288:LEU:HD11	1.98	0.45
1:q:396:LEU:HD23	1:q:397:GLN:N	2.32	0.45
1:s:235:GLU:O	1:s:236:THR:CG2	2.64	0.45
1:s:402:THR:O	1:s:403:ARG:NH2	2.44	0.45
1:t:218:HIS:CE1	1:t:255:ASN:H	2.34	0.45
1:t:396:LEU:HD23	1:t:397:GLN:N	2.32	0.45
1:w:226:TYR:O	1:w:229:ILE:HG23	2.16	0.45
1:w:403:ARG:HG2	1:y:339:GLY:O	2.17	0.45
1:w:601:CYS:HB3	1:x:255:ASN:OD1	2.17	0.45
1:z:403:ARG:HG2	1:2:339:GLY:O	2.17	0.45
1:2:141:ILE:HG23	1:2:288:LEU:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:396:LEU:HD23	1:2:397:GLN:N	2.32	0.45
1:3:405:ILE:HG22	1:4:334:LEU:HD23	1.97	0.45
1:5:192:THR:H	1:5:556:GLN:NE2	2.06	0.45
1:5:235:GLU:O	1:5:236:THR:CG2	2.64	0.45
1:5:403:ARG:HG2	1:7:339:GLY:O	2.17	0.45
1:5:488:GLN:HG3	1:5:489:GLU:N	2.31	0.45
1:6:235:GLU:O	1:6:236:THR:CG2	2.64	0.45
1:6:336:HIS:HE1	1:7:402:THR:HG21	1.78	0.45
1:6:403:ARG:HD3	1:6:460:GLU:HA	1.97	0.45
1:7:382:TRP:HB2	1:7:463:GLY:O	2.17	0.45
1:7:488:GLN:HG3	1:7:489:GLU:N	2.31	0.45
1:8:382:TRP:HB2	1:8:463:GLY:O	2.17	0.45
1:A:226:TYR:O	1:A:229:ILE:HG23	2.16	0.45
1:A:313:LYS:O	1:A:316:SER:OG	2.26	0.45
1:B:382:TRP:HB2	1:B:463:GLY:O	2.17	0.45
1:C:339:GLY:O	1:b:403:ARG:HG2	2.17	0.45
1:D:345:LYS:HB3	1:N:103:TYR:CE1	2.52	0.45
1:E:114:TRP:CD1	1:E:259:ILE:HD12	2.51	0.45
1:E:334:LEU:HD23	1:Q:405:ILE:HG22	1.98	0.45
1:E:601:CYS:HB3	1:Q:255:ASN:OD1	2.17	0.45
1:F:255:ASN:OD1	1:Q:601:CYS:HB3	2.17	0.45
1:G:148:GLN:HG3	1:G:276:THR:CG2	2.44	0.45
1:G:218:HIS:CE1	1:G:255:ASN:H	2.34	0.45
1:G:226:TYR:O	1:G:229:ILE:HG23	2.16	0.45
1:H:396:LEU:HD23	1:H:397:GLN:N	2.32	0.45
1:H:403:ARG:HG2	1:Y:339:GLY:O	2.17	0.45
1:H:488:GLN:HG3	1:H:489:GLU:N	2.31	0.45
1:L:141:ILE:HG23	1:L:288:LEU:HD11	1.98	0.45
1:M:348:GLU:OE1	1:M:348:GLU:HA	2.17	0.45
1:M:488:GLN:HG3	1:M:489:GLU:N	2.31	0.45
1:O:255:ASN:OD1	1:n:601:CYS:HB3	2.17	0.45
1:R:396:LEU:HD23	1:R:397:GLN:N	2.32	0.45
1:S:339:GLY:O	1:U:403:ARG:HG2	2.17	0.45
1:S:345:LYS:HB3	1:U:103:TYR:CE1	2.52	0.45
1:T:396:LEU:HD23	1:T:397:GLN:N	2.32	0.45
1:U:235:GLU:O	1:U:236:THR:CG2	2.64	0.45
1:V:141:ILE:HG23	1:V:288:LEU:HD11	1.98	0.45
1:V:339:GLY:O	1:e:403:ARG:HG2	2.17	0.45
1:V:488:GLN:HG3	1:V:489:GLU:N	2.31	0.45
1:Y:382:TRP:HB2	1:Y:463:GLY:O	2.17	0.45
1:Y:396:LEU:HD23	1:Y:397:GLN:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:382:TRP:HB2	1:Z:463:GLY:O	2.17	0.45
1:a:382:TRP:HB2	1:a:463:GLY:O	2.17	0.45
1:d:339:GLY:O	1:l:403:ARG:HG2	2.17	0.45
1:d:601:CYS:HB3	1:l:255:ASN:OD1	2.17	0.45
1:f:382:TRP:HB2	1:f:463:GLY:O	2.17	0.45
1:g:413:ASP:N	1:g:633:GLU:HB3	2.30	0.45
1:h:348:GLU:OE1	1:h:348:GLU:HA	2.17	0.45
1:i:382:TRP:HB2	1:i:463:GLY:O	2.17	0.45
1:i:403:ARG:HG2	1:k:339:GLY:O	2.17	0.45
1:m:413:ASP:N	1:m:633:GLU:HB3	2.30	0.45
1:n:402:THR:O	1:n:403:ARG:NH2	2.44	0.45
1:o:339:GLY:O	1:p:403:ARG:HG2	2.17	0.45
1:o:601:CYS:HB3	1:p:255:ASN:OD1	2.17	0.45
1:r:339:GLY:O	1:s:403:ARG:HG2	2.17	0.45
1:r:345:LYS:HB3	1:s:103:TYR:CE1	2.52	0.45
1:t:235:GLU:O	1:t:236:THR:CG2	2.64	0.45
1:t:603:ASN:N	1:t:603:ASN:OD1	2.47	0.45
1:u:334:LEU:HD23	1:v:405:ILE:HG22	1.97	0.45
1:u:339:GLY:O	1:v:403:ARG:HG2	2.17	0.45
1:w:334:LEU:HD23	1:x:405:ILE:HG22	1.98	0.45
1:x:226:TYR:O	1:x:229:ILE:HG23	2.16	0.45
1:y:226:TYR:O	1:y:229:ILE:HG23	2.16	0.45
1:z:141:ILE:HG23	1:z:288:LEU:HD11	1.98	0.45
1:z:382:TRP:HB2	1:z:463:GLY:O	2.17	0.45
1:z:402:THR:HG21	1:2:336:HIS:HE1	1.78	0.45
1:1:334:LEU:HD23	1:2:405:ILE:HG22	1.98	0.45
1:1:382:TRP:HB2	1:1:463:GLY:O	2.17	0.45
1:5:382:TRP:HB2	1:5:463:GLY:O	2.17	0.45
1:5:396:LEU:HD23	1:5:397:GLN:N	2.32	0.45
1:7:235:GLU:O	1:7:236:THR:CG2	2.64	0.45
1:8:114:TRP:CD1	1:8:259:ILE:HD12	2.51	0.45
1:B:334:LEU:HD23	1:J:405:ILE:HG22	1.98	0.45
1:C:226:TYR:O	1:C:229:ILE:HG23	2.16	0.45
1:D:226:TYR:O	1:D:229:ILE:HG23	2.16	0.45
1:F:226:TYR:O	1:F:229:ILE:HG23	2.16	0.45
1:F:348:GLU:OE1	1:F:348:GLU:HA	2.17	0.45
1:F:403:ARG:HG2	1:Q:339:GLY:O	2.17	0.45
1:F:488:GLN:HG3	1:F:489:GLU:N	2.31	0.45
1:I:226:TYR:O	1:I:229:ILE:HG23	2.16	0.45
1:J:382:TRP:HB2	1:J:463:GLY:O	2.17	0.45
1:L:382:TRP:HB2	1:L:463:GLY:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:396:LEU:HD23	1:L:397:GLN:N	2.32	0.45
1:M:396:LEU:HD23	1:M:397:GLN:N	2.32	0.45
1:M:403:ARG:HG2	1:b:339:GLY:O	2.17	0.45
1:N:382:TRP:HB2	1:N:463:GLY:O	2.17	0.45
1:O:339:GLY:O	1:m:403:ARG:HG2	2.17	0.45
1:Q:382:TRP:HB2	1:Q:463:GLY:O	2.17	0.45
1:R:235:GLU:O	1:R:236:THR:CG2	2.64	0.45
1:W:382:TRP:HB2	1:W:463:GLY:O	2.17	0.45
1:X:382:TRP:HB2	1:X:463:GLY:O	2.17	0.45
1:a:226:TYR:O	1:a:229:ILE:HG23	2.16	0.45
1:c:351:ARG:HE	1:o:197:LEU:HD21	1.82	0.45
1:d:402:THR:O	1:d:403:ARG:NH2	2.44	0.45
1:f:339:GLY:O	1:h:403:ARG:HG2	2.17	0.45
1:g:226:TYR:O	1:g:229:ILE:HG23	2.16	0.45
1:h:396:LEU:HD23	1:h:397:GLN:N	2.32	0.45
1:i:103:TYR:CE1	1:k:345:LYS:HB3	2.52	0.45
1:i:148:GLN:HG3	1:i:276:THR:CG2	2.44	0.45
1:k:148:GLN:HG3	1:k:276:THR:CG2	2.44	0.45
1:k:226:TYR:O	1:k:229:ILE:HG23	2.16	0.45
1:m:396:LEU:HD23	1:m:397:GLN:N	2.32	0.45
1:n:192:THR:H	1:n:556:GLN:NE2	2.06	0.45
1:o:382:TRP:HB2	1:o:463:GLY:O	2.17	0.45
1:q:235:GLU:O	1:q:236:THR:CG2	2.64	0.45
1:q:334:LEU:HD23	1:r:405:ILE:HG22	1.98	0.45
1:q:339:GLY:O	1:r:403:ARG:HG2	2.17	0.45
1:t:226:TYR:O	1:t:229:ILE:HG23	2.16	0.45
1:v:226:TYR:O	1:v:229:ILE:HG23	2.16	0.45
1:v:488:GLN:HG3	1:v:489:GLU:N	2.31	0.45
1:v:530:ASP:OD1	1:v:531:LYS:N	2.48	0.45
1:x:601:CYS:HB3	1:y:255:ASN:OD1	2.17	0.45
1:y:218:HIS:CE1	1:y:255:ASN:H	2.34	0.45
1:y:348:GLU:OE1	1:y:348:GLU:HA	2.17	0.45
1:y:488:GLN:HG3	1:y:489:GLU:N	2.31	0.45
1:z:396:LEU:HD23	1:z:397:GLN:N	2.32	0.45
1:2:382:TRP:HB2	1:2:463:GLY:O	2.17	0.45
1:3:235:GLU:O	1:3:236:THR:CG2	2.64	0.45
1:4:396:LEU:HD23	1:4:397:GLN:N	2.32	0.45
1:4:530:ASP:OD1	1:4:531:LYS:N	2.48	0.45
1:6:382:TRP:HB2	1:6:463:GLY:O	2.17	0.45
1:7:396:LEU:HD23	1:7:397:GLN:N	2.32	0.45
1:A:488:GLN:HG3	1:A:489:GLU:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:488:GLN:HG3	1:B:489:GLU:H	1.82	0.45
1:C:413:ASP:N	1:C:633:GLU:HB3	2.30	0.45
1:G:345:LYS:HB3	1:I:103:TYR:CE1	2.52	0.45
1:H:348:GLU:OE1	1:H:348:GLU:HA	2.17	0.45
1:H:601:CYS:HB3	1:W:255:ASN:OD1	2.17	0.45
1:K:103:TYR:CE1	1:8:345:LYS:HB3	2.51	0.45
1:K:339:GLY:O	1:a:403:ARG:HG2	2.17	0.45
1:K:396:LEU:HD23	1:K:397:GLN:N	2.32	0.45
1:K:530:ASP:OD1	1:K:531:LYS:N	2.48	0.45
1:L:530:ASP:OD1	1:L:531:LYS:N	2.48	0.45
1:N:402:THR:O	1:N:403:ARG:NH2	2.44	0.45
1:Q:235:GLU:O	1:Q:236:THR:CG2	2.64	0.45
1:R:339:GLY:O	1:S:403:ARG:HG2	2.17	0.45
1:S:226:TYR:O	1:S:229:ILE:HG23	2.16	0.45
1:T:382:TRP:HB2	1:T:463:GLY:O	2.17	0.45
1:T:403:ARG:HG2	1:l:339:GLY:O	2.17	0.45
1:T:601:CYS:HB3	1:d:255:ASN:OD1	2.17	0.45
1:U:396:LEU:HD23	1:U:397:GLN:N	2.32	0.45
1:V:403:ARG:HG2	1:X:339:GLY:O	2.17	0.45
1:X:402:THR:HG21	1:e:336:HIS:HE1	1.78	0.45
1:Z:345:LYS:HB3	1:4:103:TYR:CE1	2.51	0.45
1:a:348:GLU:OE1	1:a:348:GLU:HA	2.17	0.45
1:a:396:LEU:HD23	1:a:397:GLN:N	2.32	0.45
1:b:226:TYR:O	1:b:229:ILE:HG23	2.16	0.45
1:b:348:GLU:OE1	1:b:348:GLU:HA	2.17	0.45
1:b:396:LEU:HD23	1:b:397:GLN:N	2.32	0.45
1:d:141:ILE:HG23	1:d:288:LEU:HD11	1.98	0.45
1:d:192:THR:H	1:d:556:GLN:NE2	2.06	0.45
1:f:226:TYR:O	1:f:229:ILE:HG23	2.16	0.45
1:f:396:LEU:HD23	1:f:397:GLN:N	2.32	0.45
1:f:403:ARG:HG2	1:g:339:GLY:O	2.17	0.45
1:g:488:GLN:HG3	1:g:489:GLU:N	2.31	0.45
1:h:488:GLN:HG3	1:h:489:GLU:N	2.31	0.45
1:k:218:HIS:CE1	1:k:255:ASN:H	2.34	0.45
1:n:348:GLU:OE1	1:n:348:GLU:HA	2.17	0.45
1:r:226:TYR:O	1:r:229:ILE:HG23	2.16	0.45
1:r:235:GLU:O	1:r:236:THR:CG2	2.64	0.45
1:t:345:LYS:HB3	1:u:103:TYR:CE1	2.52	0.45
1:u:226:TYR:O	1:u:229:ILE:HG23	2.16	0.45
1:u:345:LYS:HB3	1:v:103:TYR:CE1	2.52	0.45
1:u:351:ARG:HE	1:v:197:LEU:HD21	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:235:GLU:O	1:x:236:THR:CG2	2.64	0.45
1:x:339:GLY:O	1:y:403:ARG:HG2	2.17	0.45
1:x:382:TRP:HB2	1:x:463:GLY:O	2.17	0.45
1:1:488:GLN:HG3	1:1:489:GLU:H	1.82	0.45
1:3:348:GLU:OE1	1:3:348:GLU:HA	2.17	0.45
1:3:382:TRP:HB2	1:3:463:GLY:O	2.17	0.45
1:3:403:ARG:HG2	1:4:339:GLY:O	2.17	0.45
1:5:601:CYS:HB3	1:6:255:ASN:OD1	2.17	0.45
1:6:348:GLU:HA	1:6:348:GLU:OE1	2.17	0.45
1:A:382:TRP:HB2	1:A:463:GLY:O	2.17	0.45
1:A:403:ARG:HG2	1:I:339:GLY:O	2.17	0.45
1:B:339:GLY:O	1:J:403:ARG:HG2	2.17	0.45
1:D:148:GLN:HG3	1:D:276:THR:CG2	2.44	0.45
1:D:218:HIS:CE1	1:D:255:ASN:H	2.34	0.45
1:D:351:ARG:HE	1:N:197:LEU:HD21	1.82	0.45
1:F:218:HIS:CE1	1:F:255:ASN:H	2.34	0.45
1:F:382:TRP:HB2	1:F:463:GLY:O	2.17	0.45
1:F:488:GLN:HG3	1:F:489:GLU:H	1.82	0.45
1:K:235:GLU:O	1:K:236:THR:CG2	2.64	0.45
1:K:348:GLU:OE1	1:K:348:GLU:HA	2.17	0.45
1:K:382:TRP:HB2	1:K:463:GLY:O	2.17	0.45
1:K:601:CYS:HB3	1:a:255:ASN:OD1	2.17	0.45
1:L:488:GLN:HG3	1:L:489:GLU:H	1.82	0.45
1:O:396:LEU:HD23	1:O:397:GLN:N	2.32	0.45
1:R:226:TYR:O	1:R:229:ILE:HG23	2.16	0.45
1:R:334:LEU:HD23	1:S:405:ILE:HG22	1.98	0.45
1:S:235:GLU:O	1:S:236:THR:CG2	2.64	0.45
1:T:226:TYR:O	1:T:229:ILE:HG23	2.16	0.45
1:V:235:GLU:O	1:V:236:THR:CG2	2.64	0.45
1:V:348:GLU:OE1	1:V:348:GLU:HA	2.17	0.45
1:V:382:TRP:HB2	1:V:463:GLY:O	2.17	0.45
1:W:348:GLU:OE1	1:W:348:GLU:HA	2.17	0.45
1:W:396:LEU:HD23	1:W:397:GLN:N	2.32	0.45
1:X:348:GLU:OE1	1:X:348:GLU:HA	2.17	0.45
1:X:396:LEU:HD23	1:X:397:GLN:N	2.32	0.45
1:a:141:ILE:HG23	1:a:288:LEU:HD11	1.98	0.45
1:a:235:GLU:O	1:a:236:THR:CG2	2.64	0.45
1:b:141:ILE:HG23	1:b:288:LEU:HD11	1.98	0.45
1:c:148:GLN:HG3	1:c:276:THR:CG2	2.44	0.45
1:d:348:GLU:HA	1:d:348:GLU:OE1	2.17	0.45
1:e:148:GLN:HG3	1:e:276:THR:CG2	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:403:ARG:HD3	1:e:460:GLU:HA	1.97	0.45
1:f:141:ILE:HG23	1:f:288:LEU:HD11	1.98	0.45
1:f:348:GLU:OE1	1:f:348:GLU:HA	2.17	0.45
1:f:488:GLN:HG3	1:f:489:GLU:H	1.82	0.45
1:g:488:GLN:HG3	1:g:489:GLU:H	1.82	0.45
1:l:396:LEU:HD23	1:l:397:GLN:N	2.32	0.45
1:m:226:TYR:O	1:m:229:ILE:HG23	2.16	0.45
1:m:348:GLU:OE1	1:m:348:GLU:HA	2.17	0.45
1:m:382:TRP:HB2	1:m:463:GLY:O	2.17	0.45
1:m:601:CYS:HB3	1:n:255:ASN:OD1	2.17	0.45
1:o:348:GLU:OE1	1:o:348:GLU:HA	2.17	0.45
1:o:396:LEU:HD23	1:o:397:GLN:N	2.32	0.45
1:p:235:GLU:O	1:p:236:THR:CG2	2.64	0.45
1:q:226:TYR:O	1:q:229:ILE:HG23	2.16	0.45
1:s:396:LEU:HD23	1:s:397:GLN:N	2.32	0.45
1:u:235:GLU:O	1:u:236:THR:CG2	2.64	0.45
1:v:382:TRP:HB2	1:v:463:GLY:O	2.17	0.45
1:z:488:GLN:HG3	1:z:489:GLU:H	1.82	0.45
1:1:339:GLY:O	1:2:403:ARG:HG2	2.17	0.45
1:2:218:HIS:CE1	1:2:255:ASN:H	2.34	0.45
1:3:226:TYR:O	1:3:229:ILE:HG23	2.16	0.45
1:3:255:ASN:OD1	1:4:601:CYS:HB3	2.17	0.45
1:3:396:LEU:HD23	1:3:397:GLN:N	2.32	0.45
1:4:348:GLU:OE1	1:4:348:GLU:HA	2.17	0.45
1:4:382:TRP:HB2	1:4:463:GLY:O	2.17	0.45
1:5:348:GLU:OE1	1:5:348:GLU:HA	2.17	0.45
1:6:396:LEU:HD23	1:6:397:GLN:N	2.32	0.45
1:6:488:GLN:HG3	1:6:489:GLU:H	1.82	0.45
1:A:255:ASN:OD1	1:I:601:CYS:HB3	2.17	0.45
1:C:488:GLN:HG3	1:C:489:GLU:H	1.82	0.45
1:C:488:GLN:HG3	1:C:489:GLU:N	2.31	0.45
1:D:348:GLU:OE1	1:D:348:GLU:HA	2.17	0.45
1:F:141:ILE:HG23	1:F:288:LEU:HD11	1.98	0.45
1:F:396:LEU:HD23	1:F:397:GLN:N	2.32	0.45
1:G:348:GLU:OE1	1:G:348:GLU:HA	2.17	0.45
1:H:192:THR:H	1:H:556:GLN:NE2	2.06	0.45
1:H:488:GLN:HG3	1:H:489:GLU:H	1.82	0.45
1:I:235:GLU:O	1:I:236:THR:CG2	2.64	0.45
1:I:396:LEU:HD23	1:I:397:GLN:N	2.32	0.45
1:J:48:THR:H	1:J:63:HIS:HB2	1.82	0.45
1:J:218:HIS:CE1	1:J:255:ASN:H	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:197:LEU:HD21	1:b:351:ARG:HE	1.82	0.45
1:M:218:HIS:CE1	1:M:255:ASN:H	2.34	0.45
1:N:396:LEU:HD23	1:N:397:GLN:N	2.32	0.45
1:N:488:GLN:HG3	1:N:489:GLU:H	1.82	0.45
1:O:103:TYR:CE1	1:n:345:LYS:HB3	2.51	0.45
1:O:601:CYS:HB3	1:m:255:ASN:OD1	2.17	0.45
1:P:48:THR:H	1:P:63:HIS:HB2	1.83	0.45
1:Q:48:THR:H	1:Q:63:HIS:HB2	1.82	0.45
1:Q:488:GLN:HG3	1:Q:489:GLU:H	1.82	0.45
1:T:255:ASN:OD1	1:l:601:CYS:HB3	2.17	0.45
1:T:348:GLU:HA	1:T:348:GLU:OE1	2.17	0.45
1:U:260:GLU:OE1	1:U:260:GLU:N	2.49	0.45
1:W:488:GLN:HG3	1:W:489:GLU:H	1.82	0.45
1:W:601:CYS:HB3	1:Y:255:ASN:OD1	2.17	0.45
1:X:141:ILE:HG23	1:X:288:LEU:HD11	1.98	0.45
1:b:488:GLN:HG3	1:b:489:GLU:H	1.82	0.45
1:c:403:ARG:HD3	1:c:460:GLU:HA	1.97	0.45
1:d:396:LEU:HD23	1:d:397:GLN:N	2.32	0.45
1:f:351:ARG:HE	1:h:197:LEU:HD21	1.82	0.45
1:i:197:LEU:HD21	1:k:351:ARG:HE	1.82	0.45
1:i:396:LEU:HD23	1:i:397:GLN:N	2.32	0.45
1:j:48:THR:H	1:j:63:HIS:HB2	1.83	0.45
1:j:382:TRP:HB2	1:j:463:GLY:O	2.17	0.45
1:n:141:ILE:HG23	1:n:288:LEU:HD11	1.98	0.45
1:p:348:GLU:OE1	1:p:348:GLU:HA	2.17	0.45
1:q:103:TYR:CE1	1:s:345:LYS:HB3	2.52	0.45
1:s:218:HIS:CE1	1:s:255:ASN:H	2.34	0.45
1:u:396:LEU:HD23	1:u:397:GLN:N	2.32	0.45
1:v:348:GLU:OE1	1:v:348:GLU:HA	2.17	0.45
1:x:48:THR:H	1:x:63:HIS:HB2	1.82	0.45
1:x:488:GLN:HG3	1:x:489:GLU:H	1.82	0.45
1:y:141:ILE:HG23	1:y:288:LEU:HD11	1.98	0.45
1:y:382:TRP:HB2	1:y:463:GLY:O	2.17	0.45
1:y:488:GLN:HG3	1:y:489:GLU:H	1.82	0.45
1:z:530:ASP:OD1	1:z:531:LYS:N	2.48	0.45
1:1:148:GLN:HG3	1:1:276:THR:CG2	2.44	0.45
1:3:141:ILE:HG23	1:3:288:LEU:HD11	1.98	0.45
1:4:235:GLU:O	1:4:236:THR:CG2	2.64	0.45
1:5:141:ILE:HG23	1:5:288:LEU:HD11	1.98	0.45
1:5:488:GLN:HG3	1:5:489:GLU:H	1.82	0.45
1:6:601:CYS:HB3	1:7:255:ASN:OD1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:403:ARG:HD3	1:7:460:GLU:HA	1.97	0.45
1:8:488:GLN:HG3	1:8:489:GLU:H	1.82	0.45
1:A:348:GLU:HA	1:A:348:GLU:OE1	2.17	0.44
1:B:255:ASN:OD1	1:L:601:CYS:HB3	2.17	0.44
1:B:345:LYS:HB3	1:J:103:TYR:CE1	2.52	0.44
1:C:396:LEU:HD23	1:C:397:GLN:N	2.32	0.44
1:D:141:ILE:HG23	1:D:288:LEU:HD11	1.98	0.44
1:D:197:LEU:HD21	1:P:351:ARG:HE	1.82	0.44
1:F:405:ILE:HG22	1:Q:334:LEU:HD23	1.97	0.44
1:G:48:THR:H	1:G:63:HIS:HB2	1.82	0.44
1:G:382:TRP:HB2	1:G:463:GLY:O	2.17	0.44
1:I:488:GLN:HG3	1:I:489:GLU:H	1.82	0.44
1:O:96:LEU:N	1:O:96:LEU:CD2	2.73	0.44
1:O:351:ARG:HE	1:m:197:LEU:HD21	1.82	0.44
1:P:382:TRP:HB2	1:P:463:GLY:O	2.17	0.44
1:R:348:GLU:OE1	1:R:348:GLU:HA	2.17	0.44
1:T:197:LEU:HD21	1:l:351:ARG:HE	1.82	0.44
1:V:402:THR:O	1:V:403:ARG:NH2	2.44	0.44
1:Z:488:GLN:HG3	1:Z:489:GLU:H	1.82	0.44
1:c:336:HIS:HE1	1:o:402:THR:HG21	1.78	0.44
1:c:339:GLY:O	1:o:403:ARG:HG2	2.17	0.44
1:e:396:LEU:HD23	1:e:397:GLN:N	2.32	0.44
1:g:396:LEU:HD23	1:g:397:GLN:N	2.32	0.44
1:h:218:HIS:CE1	1:h:255:ASN:H	2.34	0.44
1:i:348:GLU:OE1	1:i:348:GLU:HA	2.17	0.44
1:i:488:GLN:HG3	1:i:489:GLU:H	1.82	0.44
1:j:351:ARG:HE	1:k:197:LEU:HD21	1.82	0.44
1:k:141:ILE:HG23	1:k:288:LEU:HD11	1.98	0.44
1:k:348:GLU:OE1	1:k:348:GLU:HA	2.17	0.44
1:l:96:LEU:N	1:l:96:LEU:CD2	2.73	0.44
1:n:396:LEU:HD23	1:n:397:GLN:N	2.32	0.44
1:n:488:GLN:HG3	1:n:489:GLU:H	1.82	0.44
1:o:141:ILE:HG23	1:o:288:LEU:HD11	1.98	0.44
1:p:382:TRP:HB2	1:p:463:GLY:O	2.17	0.44
1:p:402:THR:O	1:p:403:ARG:NH2	2.44	0.44
1:q:90:LYS:NZ	1:q:244:ASP:OD2	2.32	0.44
1:t:348:GLU:HA	1:t:348:GLU:OE1	2.17	0.44
1:u:488:GLN:HG3	1:u:489:GLU:H	1.82	0.44
1:u:601:CYS:HB3	1:v:255:ASN:OD1	2.17	0.44
1:v:96:LEU:H	1:v:96:LEU:CD2	2.03	0.44
1:v:260:GLU:OE1	1:v:260:GLU:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:396:LEU:HD23	1:y:397:GLN:N	2.32	0.44
1:2:48:THR:H	1:2:63:HIS:HB2	1.83	0.44
1:3:148:GLN:HG3	1:3:276:THR:CG2	2.44	0.44
1:8:396:LEU:HD23	1:8:397:GLN:N	2.32	0.44
1:B:336:HIS:HE1	1:J:402:THR:HG21	1.78	0.44
1:E:141:ILE:HG23	1:E:288:LEU:HD11	1.98	0.44
1:G:314:VAL:HG11	1:I:80:ILE:HG22	1.99	0.44
1:H:141:ILE:HG23	1:H:288:LEU:HD11	1.98	0.44
1:H:351:ARG:HE	1:W:197:LEU:HD21	1.82	0.44
1:K:403:ARG:HG2	1:8:339:GLY:O	2.17	0.44
1:N:339:GLY:O	1:P:403:ARG:HG2	2.17	0.44
1:R:48:THR:H	1:R:63:HIS:HB2	1.82	0.44
1:R:90:LYS:NZ	1:R:244:ASP:OD2	2.32	0.44
1:R:103:TYR:CE1	1:U:345:LYS:HB3	2.52	0.44
1:R:382:TRP:HB2	1:R:463:GLY:O	2.17	0.44
1:S:601:CYS:HB3	1:U:255:ASN:OD1	2.17	0.44
1:U:218:HIS:CE1	1:U:255:ASN:H	2.34	0.44
1:U:488:GLN:HG3	1:U:489:GLU:H	1.82	0.44
1:Y:403:ARG:HD3	1:Y:460:GLU:HA	1.97	0.44
1:c:260:GLU:OE1	1:c:260:GLU:N	2.49	0.44
1:c:396:LEU:HD23	1:c:397:GLN:N	2.32	0.44
1:e:260:GLU:OE1	1:e:260:GLU:N	2.49	0.44
1:f:197:LEU:HD21	1:g:351:ARG:HE	1.82	0.44
1:g:255:ASN:OD1	1:h:601:CYS:HB3	2.17	0.44
1:i:339:GLY:O	1:j:403:ARG:HG2	2.17	0.44
1:k:488:GLN:HG3	1:k:489:GLU:H	1.82	0.44
1:n:48:THR:H	1:n:63:HIS:HB2	1.82	0.44
1:q:348:GLU:OE1	1:q:348:GLU:HA	2.17	0.44
1:r:601:CYS:HB3	1:s:255:ASN:OD1	2.17	0.44
1:s:260:GLU:OE1	1:s:260:GLU:N	2.49	0.44
1:t:48:THR:H	1:t:63:HIS:HB2	1.82	0.44
1:t:314:VAL:HG11	1:u:80:ILE:HG22	1.99	0.44
1:z:601:CYS:HB3	1:1:255:ASN:OD1	2.17	0.44
1:1:336:HIS:HE1	1:2:402:THR:HG21	1.78	0.44
1:1:345:LYS:HB3	1:2:103:TYR:CE1	2.52	0.44
1:4:48:THR:H	1:4:63:HIS:HB2	1.82	0.44
1:A:48:THR:H	1:A:63:HIS:HB2	1.82	0.44
1:A:235:GLU:O	1:A:236:THR:CG2	2.64	0.44
1:B:148:GLN:HG3	1:B:276:THR:CG2	2.44	0.44
1:B:197:LEU:HD21	1:L:351:ARG:HE	1.82	0.44
1:C:255:ASN:OD1	1:M:601:CYS:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:351:ARG:HE	1:b:197:LEU:HD21	1.82	0.44
1:E:314:VAL:HG11	1:Q:80:ILE:HG22	1.99	0.44
1:E:339:GLY:O	1:Q:403:ARG:HG2	2.17	0.44
1:E:405:ILE:HG22	1:F:334:LEU:HD23	1.98	0.44
1:G:601:CYS:HB3	1:I:255:ASN:OD1	2.17	0.44
1:H:402:THR:O	1:H:403:ARG:NH2	2.44	0.44
1:K:488:GLN:HG3	1:K:489:GLU:H	1.82	0.44
1:L:348:GLU:OE1	1:L:348:GLU:HA	2.17	0.44
1:N:348:GLU:HB2	1:P:105:ASP:HA	2.00	0.44
1:N:348:GLU:OE1	1:N:348:GLU:HA	2.17	0.44
1:O:48:THR:H	1:O:63:HIS:HB2	1.82	0.44
1:Q:348:GLU:HA	1:Q:348:GLU:OE1	2.17	0.44
1:R:601:CYS:HB3	1:S:255:ASN:OD1	2.17	0.44
1:S:218:HIS:CE1	1:S:255:ASN:H	2.34	0.44
1:S:260:GLU:OE1	1:S:260:GLU:N	2.49	0.44
1:U:382:TRP:HB2	1:U:463:GLY:O	2.17	0.44
1:V:348:GLU:HB2	1:e:105:ASP:HA	2.00	0.44
1:Z:339:GLY:O	1:4:403:ARG:HG2	2.17	0.44
1:Z:351:ARG:HE	1:4:197:LEU:HD21	1.82	0.44
1:Z:396:LEU:HD23	1:Z:397:GLN:N	2.32	0.44
1:d:48:THR:H	1:d:63:HIS:HB2	1.83	0.44
1:d:345:LYS:HB3	1:l:103:TYR:CE1	2.51	0.44
1:f:255:ASN:OD1	1:g:601:CYS:HB3	2.17	0.44
1:g:403:ARG:HG2	1:h:339:GLY:O	2.17	0.44
1:i:348:GLU:HB2	1:j:105:ASP:HA	2.00	0.44
1:j:396:LEU:HD23	1:j:397:GLN:N	2.32	0.44
1:o:351:ARG:HE	1:p:197:LEU:HD21	1.82	0.44
1:q:48:THR:H	1:q:63:HIS:HB2	1.82	0.44
1:q:601:CYS:HB3	1:r:255:ASN:OD1	2.17	0.44
1:r:218:HIS:CE1	1:r:255:ASN:H	2.34	0.44
1:r:260:GLU:OE1	1:r:260:GLU:N	2.49	0.44
1:s:488:GLN:HG3	1:s:489:GLU:H	1.82	0.44
1:t:382:TRP:HB2	1:t:463:GLY:O	2.17	0.44
1:u:148:GLN:HG3	1:u:276:THR:CG2	2.44	0.44
1:v:48:THR:H	1:v:63:HIS:HB2	1.82	0.44
1:w:314:VAL:HG11	1:x:80:ILE:HG22	1.99	0.44
1:w:382:TRP:HB2	1:w:463:GLY:O	2.17	0.44
1:w:405:ILE:HG22	1:y:334:LEU:HD23	1.98	0.44
1:x:334:LEU:HD23	1:y:405:ILE:HG22	1.97	0.44
1:x:348:GLU:OE1	1:x:348:GLU:HA	2.17	0.44
1:z:351:ARG:HE	1:1:197:LEU:HD21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:260:GLU:OE1	1:2:260:GLU:N	2.49	0.44
1:5:351:ARG:HE	1:6:197:LEU:HD21	1.82	0.44
1:8:226:TYR:O	1:8:229:ILE:HG23	2.16	0.44
1:A:488:GLN:HG3	1:A:489:GLU:H	1.82	0.44
1:A:601:CYS:HB3	1:G:255:ASN:OD1	2.17	0.44
1:C:403:ARG:HG2	1:M:339:GLY:O	2.17	0.44
1:C:601:CYS:HB3	1:b:255:ASN:OD1	2.17	0.44
1:D:255:ASN:OD1	1:P:601:CYS:HB3	2.17	0.44
1:D:382:TRP:HB2	1:D:463:GLY:O	2.17	0.44
1:D:488:GLN:HG3	1:D:489:GLU:H	1.82	0.44
1:E:260:GLU:OE1	1:E:260:GLU:N	2.49	0.44
1:E:382:TRP:HB2	1:E:463:GLY:O	2.17	0.44
1:I:218:HIS:CE1	1:I:255:ASN:H	2.34	0.44
1:J:260:GLU:OE1	1:J:260:GLU:N	2.49	0.44
1:J:334:LEU:HD23	1:L:405:ILE:HG22	1.98	0.44
1:K:48:THR:H	1:K:63:HIS:HB2	1.82	0.44
1:K:105:ASP:HA	1:8:348:GLU:HB2	2.00	0.44
1:K:197:LEU:HD21	1:8:351:ARG:HE	1.82	0.44
1:M:148:GLN:HG3	1:M:276:THR:CG2	2.44	0.44
1:N:601:CYS:HB3	1:P:255:ASN:OD1	2.17	0.44
1:P:396:LEU:HD23	1:P:397:GLN:N	2.32	0.44
1:R:197:LEU:HD21	1:U:351:ARG:HE	1.82	0.44
1:S:382:TRP:HB2	1:S:463:GLY:O	2.17	0.44
1:S:488:GLN:HG3	1:S:489:GLU:H	1.82	0.44
1:T:339:GLY:O	1:d:403:ARG:HG2	2.17	0.44
1:V:48:THR:H	1:V:63:HIS:HB2	1.83	0.44
1:X:45:PHE:CD2	1:Y:265:ILE:HD12	2.52	0.44
1:Y:348:GLU:HA	1:Y:348:GLU:OE1	2.17	0.44
1:Z:226:TYR:O	1:Z:229:ILE:HG23	2.16	0.44
1:a:148:GLN:HG3	1:a:276:THR:CG2	2.44	0.44
1:d:488:GLN:HG3	1:d:489:GLU:H	1.83	0.44
1:e:239:TRP:CH2	1:e:242:VAL:CA	2.70	0.44
1:h:148:GLN:HG3	1:h:276:THR:CG2	2.44	0.44
1:i:601:CYS:HB3	1:j:255:ASN:OD1	2.17	0.44
1:j:235:GLU:O	1:j:236:THR:CG2	2.64	0.44
1:j:601:CYS:HB3	1:k:255:ASN:OD1	2.17	0.44
1:k:382:TRP:HB2	1:k:463:GLY:O	2.17	0.44
1:l:48:THR:H	1:l:63:HIS:HB2	1.83	0.44
1:p:48:THR:H	1:p:63:HIS:HB2	1.83	0.44
1:q:197:LEU:HD21	1:s:351:ARG:HE	1.82	0.44
1:q:382:TRP:HB2	1:q:463:GLY:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:488:GLN:HG3	1:r:489:GLU:H	1.82	0.44
1:s:382:TRP:HB2	1:s:463:GLY:O	2.17	0.44
1:t:403:ARG:HG2	1:v:339:GLY:O	2.17	0.44
1:u:218:HIS:CE1	1:u:255:ASN:H	2.34	0.44
1:u:348:GLU:HB2	1:v:105:ASP:HA	2.00	0.44
1:v:235:GLU:O	1:v:236:THR:CG2	2.64	0.44
1:v:488:GLN:HG3	1:v:489:GLU:H	1.82	0.44
1:w:141:ILE:HG23	1:w:288:LEU:HD11	1.98	0.44
1:w:339:GLY:O	1:x:403:ARG:HG2	2.17	0.44
1:x:348:GLU:HB2	1:y:105:ASP:HA	2.00	0.44
1:z:348:GLU:OE1	1:z:348:GLU:HA	2.17	0.44
1:1:235:GLU:O	1:1:236:THR:CG2	2.64	0.44
1:3:260:GLU:OE1	1:3:260:GLU:N	2.49	0.44
1:4:488:GLN:HG3	1:4:489:GLU:H	1.83	0.44
1:6:351:ARG:HE	1:7:197:LEU:HD21	1.82	0.44
1:7:348:GLU:OE1	1:7:348:GLU:HA	2.17	0.44
1:8:235:GLU:O	1:8:236:THR:CG2	2.64	0.44
1:B:235:GLU:O	1:B:236:THR:CG2	2.64	0.44
1:C:382:TRP:HB2	1:C:463:GLY:O	2.17	0.44
1:F:105:ASP:HA	1:Q:348:GLU:HB2	2.00	0.44
1:F:360:GLN:H	1:F:509:SER:HG	1.63	0.44
1:H:345:LYS:HB3	1:W:103:TYR:CE1	2.52	0.44
1:O:218:HIS:CE1	1:O:255:ASN:H	2.34	0.44
1:R:105:ASP:HA	1:U:348:GLU:HB2	2.00	0.44
1:R:351:ARG:HE	1:S:197:LEU:HD21	1.82	0.44
1:S:348:GLU:OE1	1:S:348:GLU:HA	2.17	0.44
1:S:603:ASN:OD1	1:S:603:ASN:N	2.47	0.44
1:W:339:GLY:O	1:Y:403:ARG:HG2	2.17	0.44
1:W:351:ARG:HE	1:Y:197:LEU:HD21	1.82	0.44
1:Z:348:GLU:HB2	1:4:105:ASP:HA	2.00	0.44
1:a:603:ASN:OD1	1:a:603:ASN:N	2.47	0.44
1:b:235:GLU:O	1:b:236:THR:CG2	2.64	0.44
1:c:105:ASP:HA	1:p:348:GLU:HB2	2.00	0.44
1:c:145:THR:HG22	1:c:591:VAL:HB	2.00	0.44
1:f:235:GLU:O	1:f:236:THR:CG2	2.64	0.44
1:g:382:TRP:HB2	1:g:463:GLY:O	2.17	0.44
1:l:218:HIS:CE1	1:l:255:ASN:H	2.34	0.44
1:o:48:THR:H	1:o:63:HIS:HB2	1.82	0.44
1:o:348:GLU:HB2	1:p:105:ASP:HA	2.00	0.44
1:q:105:ASP:HA	1:s:348:GLU:HB2	2.00	0.44
1:r:382:TRP:HB2	1:r:463:GLY:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:48:THR:H	1:u:63:HIS:HB2	1.82	0.44
1:u:141:ILE:HG23	1:u:288:LEU:HD11	1.98	0.44
1:w:260:GLU:OE1	1:w:260:GLU:N	2.49	0.44
1:w:396:LEU:HD23	1:w:397:GLN:N	2.32	0.44
1:5:105:ASP:HA	1:7:348:GLU:HB2	2.00	0.44
1:7:488:GLN:HG3	1:7:489:GLU:H	1.82	0.44
1:A:105:ASP:HA	1:I:348:GLU:HB2	2.00	0.44
1:C:336:HIS:HE1	1:b:402:THR:HG21	1.78	0.44
1:F:197:LEU:HD21	1:Q:351:ARG:HE	1.82	0.44
1:I:48:THR:H	1:I:63:HIS:HB2	1.82	0.44
1:I:141:ILE:HG23	1:I:288:LEU:HD11	1.98	0.44
1:I:148:GLN:HG3	1:I:276:THR:CG2	2.44	0.44
1:K:96:LEU:N	1:K:96:LEU:CD2	2.73	0.44
1:L:145:THR:HG22	1:L:591:VAL:HB	2.00	0.44
1:N:48:THR:H	1:N:63:HIS:HB2	1.83	0.44
1:P:235:GLU:O	1:P:236:THR:CG2	2.64	0.44
1:S:351:ARG:HE	1:U:197:LEU:HD21	1.82	0.44
1:T:48:THR:H	1:T:63:HIS:HB2	1.82	0.44
1:T:351:ARG:HE	1:d:197:LEU:HD21	1.82	0.44
1:V:105:ASP:HA	1:X:348:GLU:HB2	2.00	0.44
1:V:314:VAL:HG11	1:e:80:ILE:HG22	2.00	0.44
1:X:48:THR:H	1:X:63:HIS:HB2	1.82	0.44
1:X:265:ILE:HD12	1:f:45:PHE:CD2	2.53	0.44
1:Z:235:GLU:O	1:Z:236:THR:CG2	2.64	0.44
1:a:260:GLU:OE1	1:a:260:GLU:N	2.49	0.44
1:c:348:GLU:OE1	1:c:348:GLU:HA	2.17	0.44
1:c:488:GLN:HG3	1:c:489:GLU:H	1.82	0.44
1:e:145:THR:HG22	1:e:591:VAL:HB	2.00	0.44
1:i:48:THR:H	1:i:63:HIS:HB2	1.83	0.44
1:m:339:GLY:O	1:n:403:ARG:HG2	2.17	0.44
1:m:351:ARG:HE	1:n:197:LEU:HD21	1.82	0.44
1:o:226:TYR:O	1:o:229:ILE:HG23	2.16	0.44
1:r:351:ARG:HE	1:s:197:LEU:HD21	1.82	0.44
1:t:96:LEU:N	1:t:96:LEU:CD2	2.73	0.44
1:t:192:THR:H	1:t:556:GLN:NE2	2.06	0.44
1:t:601:CYS:HB3	1:u:255:ASN:OD1	2.17	0.44
1:w:351:ARG:HE	1:x:197:LEU:HD21	1.82	0.44
1:x:345:LYS:HB3	1:y:103:TYR:CE1	2.52	0.44
1:x:351:ARG:HE	1:y:197:LEU:HD21	1.82	0.44
1:x:396:LEU:HD23	1:x:397:GLN:N	2.32	0.44
1:z:145:THR:HG22	1:z:591:VAL:HB	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:145:THR:HG22	1:1:591:VAL:HB	2.00	0.44
1:3:48:THR:H	1:3:63:HIS:HB2	1.83	0.44
1:5:345:LYS:HB3	1:6:103:TYR:CE1	2.52	0.44
1:5:402:THR:O	1:5:403:ARG:NH2	2.44	0.44
1:6:48:THR:H	1:6:63:HIS:HB2	1.83	0.44
1:A:96:LEU:H	1:A:96:LEU:CD2	2.03	0.44
1:A:314:VAL:HG11	1:G:80:ILE:HG22	1.99	0.44
1:B:145:THR:HG22	1:B:591:VAL:HB	2.00	0.44
1:B:396:LEU:HD23	1:B:397:GLN:N	2.32	0.44
1:C:103:TYR:CE1	1:M:345:LYS:HB3	2.51	0.44
1:D:396:LEU:HD23	1:D:397:GLN:N	2.32	0.44
1:E:351:ARG:HE	1:Q:197:LEU:HD21	1.82	0.44
1:E:396:LEU:HD23	1:E:397:GLN:N	2.32	0.44
1:H:105:ASP:HA	1:Y:348:GLU:HB2	2.00	0.44
1:I:348:GLU:HA	1:I:348:GLU:OE1	2.17	0.44
1:K:314:VAL:HG11	1:a:80:ILE:HG22	2.00	0.44
1:K:348:GLU:HB2	1:a:105:ASP:HA	2.00	0.44
1:M:145:THR:HG22	1:M:591:VAL:HB	2.00	0.44
1:N:235:GLU:O	1:N:236:THR:CG2	2.64	0.44
1:O:105:ASP:HA	1:n:348:GLU:HB2	2.00	0.44
1:Q:145:THR:HG22	1:Q:591:VAL:HB	2.00	0.44
1:Q:396:LEU:HD23	1:Q:397:GLN:N	2.32	0.44
1:S:45:PHE:CD2	1:d:265:ILE:HD12	2.53	0.44
1:S:48:THR:H	1:S:63:HIS:HB2	1.82	0.44
1:T:345:LYS:HB3	1:d:103:TYR:CE1	2.52	0.44
1:U:226:TYR:O	1:U:229:ILE:HG23	2.16	0.44
1:U:348:GLU:OE1	1:U:348:GLU:HA	2.17	0.44
1:V:255:ASN:OD1	1:X:601:CYS:HB3	2.18	0.44
1:V:351:ARG:HE	1:e:197:LEU:HD21	1.82	0.44
1:W:48:THR:H	1:W:63:HIS:HB2	1.83	0.44
1:Y:488:GLN:HG3	1:Y:489:GLU:H	1.82	0.44
1:a:48:THR:H	1:a:63:HIS:HB2	1.83	0.44
1:c:80:ILE:HG22	1:p:314:VAL:HG11	2.00	0.44
1:d:348:GLU:HB2	1:l:105:ASP:HA	2.00	0.44
1:e:488:GLN:HG3	1:e:489:GLU:H	1.82	0.44
1:g:48:THR:H	1:g:63:HIS:HB2	1.83	0.44
1:j:348:GLU:HB2	1:k:105:ASP:HA	2.00	0.44
1:m:48:THR:H	1:m:63:HIS:HB2	1.83	0.44
1:m:345:LYS:HB3	1:n:103:TYR:CE1	2.52	0.44
1:q:351:ARG:HE	1:r:197:LEU:HD21	1.82	0.44
1:r:348:GLU:OE1	1:r:348:GLU:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:603:ASN:N	1:r:603:ASN:OD1	2.47	0.44
1:s:348:GLU:OE1	1:s:348:GLU:HA	2.17	0.44
1:t:255:ASN:OD1	1:v:601:CYS:HB3	2.17	0.44
1:t:339:GLY:O	1:u:403:ARG:HG2	2.17	0.44
1:x:145:THR:HG22	1:x:591:VAL:HB	2.00	0.44
1:y:360:GLN:H	1:y:509:SER:HG	1.64	0.44
1:z:129:LYS:HE3	1:z:129:LYS:HB3	1.88	0.44
1:z:197:LEU:HD21	1:2:351:ARG:HE	1.82	0.44
1:z:405:ILE:HG22	1:2:334:LEU:HD23	1.98	0.44
1:1:396:LEU:HD23	1:1:397:GLN:N	2.32	0.44
1:6:339:GLY:O	1:7:403:ARG:HG2	2.17	0.44
1:8:145:THR:HG22	1:8:591:VAL:HB	2.00	0.44
1:A:197:LEU:HD21	1:I:351:ARG:HE	1.83	0.44
1:B:351:ARG:HE	1:J:197:LEU:HD21	1.82	0.44
1:C:218:HIS:CE1	1:C:255:ASN:H	2.34	0.44
1:C:348:GLU:HB2	1:b:105:ASP:HA	2.00	0.44
1:D:105:ASP:HA	1:P:348:GLU:HB2	2.00	0.44
1:D:145:THR:HG22	1:D:591:VAL:HB	2.00	0.44
1:E:255:ASN:OD1	1:F:601:CYS:HB3	2.17	0.44
1:F:103:TYR:CE1	1:Q:345:LYS:HB3	2.52	0.44
1:H:48:THR:H	1:H:63:HIS:HB2	1.83	0.44
1:H:255:ASN:OD1	1:Y:601:CYS:HB3	2.17	0.44
1:I:382:TRP:HB2	1:I:463:GLY:O	2.17	0.44
1:J:349:MET:HG2	1:L:375:PHE:CE2	2.53	0.44
1:J:351:ARG:HE	1:L:197:LEU:HD21	1.82	0.44
1:K:255:ASN:OD1	1:8:601:CYS:HB3	2.17	0.44
1:Q:45:PHE:CD2	1:S:265:ILE:HD12	2.53	0.44
1:R:375:PHE:CE2	1:U:349:MET:HG2	2.53	0.44
1:R:488:GLN:HG3	1:R:489:GLU:H	1.82	0.44
1:X:255:ASN:OD1	1:e:601:CYS:HB3	2.16	0.44
1:Z:145:THR:HG22	1:Z:591:VAL:HB	2.00	0.44
1:Z:265:ILE:HD12	1:a:45:PHE:CD2	2.53	0.44
1:a:348:GLU:HB2	1:8:105:ASP:HA	2.00	0.44
1:a:351:ARG:HE	1:8:197:LEU:HD21	1.82	0.44
1:c:197:LEU:HD21	1:p:351:ARG:HE	1.82	0.44
1:e:96:LEU:H	1:e:96:LEU:CD2	2.03	0.44
1:e:348:GLU:OE1	1:e:348:GLU:HA	2.17	0.44
1:f:96:LEU:N	1:f:96:LEU:CD2	2.73	0.44
1:f:105:ASP:HA	1:g:348:GLU:HB2	2.00	0.44
1:f:601:CYS:HB3	1:h:255:ASN:OD1	2.17	0.44
1:g:103:TYR:CE1	1:h:345:LYS:HB3	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:145:THR:HG22	1:h:591:VAL:HB	2.00	0.44
1:k:396:LEU:HD23	1:k:397:GLN:N	2.32	0.44
1:l:348:GLU:HA	1:l:348:GLU:OE1	2.17	0.44
1:l:530:ASP:OD1	1:l:531:LYS:N	2.48	0.44
1:n:265:ILE:HD12	1:r:45:PHE:CD2	2.53	0.44
1:p:396:LEU:HD23	1:p:397:GLN:N	2.32	0.44
1:q:375:PHE:CE2	1:s:349:MET:HG2	2.53	0.44
1:r:265:ILE:HD12	1:x:45:PHE:CD2	2.53	0.44
1:r:471:HIS:HD2	1:s:367:PRO:HB2	1.83	0.44
1:s:226:TYR:O	1:s:229:ILE:HG23	2.16	0.44
1:u:348:GLU:OE1	1:u:348:GLU:HA	2.17	0.44
1:u:382:TRP:HB2	1:u:463:GLY:O	2.17	0.44
1:v:145:THR:HG22	1:v:591:VAL:HB	2.00	0.44
1:x:531:LYS:HB2	1:x:553:PRO:HG3	2.00	0.44
1:z:103:TYR:CE1	1:2:345:LYS:HB3	2.52	0.44
1:z:255:ASN:OD1	1:2:601:CYS:HB3	2.17	0.44
1:z:375:PHE:CE2	1:2:349:MET:HG2	2.53	0.44
1:1:351:ARG:HE	1:2:197:LEU:HD21	1.82	0.44
1:3:45:PHE:CD2	1:8:265:ILE:HD12	2.53	0.44
1:3:80:ILE:HG22	1:4:314:VAL:HG11	2.00	0.44
1:3:105:ASP:HA	1:4:348:GLU:HB2	2.00	0.44
1:3:603:ASN:OD1	1:3:603:ASN:N	2.47	0.44
1:4:96:LEU:N	1:4:96:LEU:CD2	2.73	0.44
1:4:145:THR:HG22	1:4:591:VAL:HB	2.00	0.44
1:A:145:THR:HG22	1:A:591:VAL:HB	2.00	0.44
1:A:531:LYS:HB2	1:A:553:PRO:HG3	2.00	0.44
1:C:48:THR:H	1:C:63:HIS:HB2	1.83	0.44
1:C:197:LEU:HD21	1:M:351:ARG:HE	1.82	0.44
1:D:349:MET:HG2	1:N:375:PHE:CE2	2.53	0.44
1:F:92:HIS:HA	1:F:240:ASP:H	1.83	0.44
1:G:96:LEU:N	1:G:96:LEU:CD2	2.73	0.44
1:G:192:THR:H	1:G:556:GLN:NE2	2.06	0.44
1:G:339:GLY:O	1:I:403:ARG:HG2	2.17	0.44
1:G:488:GLN:HG3	1:G:489:GLU:H	1.82	0.44
1:J:45:PHE:CD2	1:a:265:ILE:HD12	2.53	0.44
1:K:145:THR:HG22	1:K:591:VAL:HB	2.00	0.44
1:L:531:LYS:HB2	1:L:553:PRO:HG3	2.00	0.44
1:N:531:LYS:HB2	1:N:553:PRO:HG3	2.00	0.44
1:O:80:ILE:HG22	1:n:314:VAL:HG11	2.00	0.44
1:O:348:GLU:OE1	1:O:348:GLU:HA	2.17	0.44
1:O:382:TRP:HB2	1:O:463:GLY:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:531:LYS:HB2	1:P:553:PRO:HG3	2.00	0.44
1:Q:531:LYS:HB2	1:Q:553:PRO:HG3	2.00	0.44
1:R:603:ASN:OD1	1:R:603:ASN:N	2.47	0.44
1:S:349:MET:HG2	1:U:375:PHE:CE2	2.53	0.44
1:S:471:HIS:HD2	1:U:367:PRO:HB2	1.83	0.44
1:U:145:THR:HG22	1:U:591:VAL:HB	2.00	0.44
1:V:192:THR:HB	1:X:300:LEU:HG	1.99	0.44
1:V:396:LEU:HD23	1:V:397:GLN:N	2.32	0.44
1:X:192:THR:HB	1:e:300:LEU:HG	2.00	0.44
1:X:226:TYR:O	1:X:229:ILE:HG23	2.16	0.44
1:Z:105:ASP:HA	1:3:348:GLU:HB2	2.00	0.44
1:Z:601:CYS:HB3	1:4:255:ASN:OD1	2.17	0.44
1:c:103:TYR:CE1	1:p:345:LYS:HB3	2.52	0.44
1:g:218:HIS:CE1	1:g:255:ASN:H	2.34	0.44
1:i:235:GLU:O	1:i:236:THR:CG2	2.64	0.44
1:i:531:LYS:HB2	1:i:553:PRO:HG3	2.00	0.44
1:j:531:LYS:HB2	1:j:553:PRO:HG3	2.00	0.44
1:k:145:THR:HG22	1:k:591:VAL:HB	2.00	0.44
1:l:488:GLN:HG3	1:l:489:GLU:H	1.82	0.44
1:q:488:GLN:HG3	1:q:489:GLU:H	1.82	0.44
1:s:145:THR:HG22	1:s:591:VAL:HB	2.00	0.44
1:u:471:HIS:HD2	1:v:367:PRO:HB2	1.83	0.44
1:w:255:ASN:OD1	1:y:601:CYS:HB3	2.17	0.44
1:y:92:HIS:HA	1:y:240:ASP:H	1.83	0.44
1:z:531:LYS:HB2	1:z:553:PRO:HG3	2.00	0.44
1:3:360:GLN:H	1:3:509:SER:HG	1.65	0.44
1:5:48:THR:H	1:5:63:HIS:HB2	1.83	0.44
1:5:255:ASN:OD1	1:7:601:CYS:HB3	2.17	0.44
1:A:45:PHE:CD2	1:E:265:ILE:HD12	2.53	0.43
1:A:349:MET:HG2	1:G:375:PHE:CE2	2.53	0.43
1:A:599:VAL:HG11	1:A:605:VAL:HG11	2.00	0.43
1:E:197:LEU:HD21	1:F:351:ARG:HE	1.82	0.43
1:E:348:GLU:OE1	1:E:348:GLU:HA	2.17	0.43
1:G:348:GLU:HB2	1:I:105:ASP:HA	2.00	0.43
1:H:349:MET:HG2	1:W:375:PHE:CE2	2.53	0.43
1:J:345:LYS:HB3	1:L:103:TYR:CE1	2.52	0.43
1:J:488:GLN:HG3	1:J:489:GLU:H	1.82	0.43
1:J:601:CYS:HB3	1:L:255:ASN:OD1	2.17	0.43
1:K:471:HIS:HD2	1:a:367:PRO:HB2	1.83	0.43
1:L:45:PHE:CD2	1:b:265:ILE:HD12	2.53	0.43
1:L:599:VAL:HG11	1:L:605:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:255:ASN:OD1	1:b:601:CYS:HB3	2.17	0.43
1:M:488:GLN:HG3	1:M:489:GLU:H	1.82	0.43
1:O:488:GLN:HG3	1:O:489:GLU:H	1.82	0.43
1:O:530:ASP:OD1	1:O:531:LYS:N	2.48	0.43
1:P:45:PHE:CD2	1:Q:265:ILE:HD12	2.53	0.43
1:R:255:ASN:OD1	1:U:601:CYS:HB3	2.17	0.43
1:S:396:LEU:HD23	1:S:397:GLN:N	2.32	0.43
1:U:45:PHE:CD2	1:e:265:ILE:HD12	2.53	0.43
1:V:145:THR:HG22	1:V:591:VAL:HB	2.00	0.43
1:V:345:LYS:HB3	1:e:103:TYR:CE1	2.52	0.43
1:V:601:CYS:HB3	1:e:255:ASN:OD1	2.17	0.43
1:Z:197:LEU:HD21	1:3:351:ARG:HE	1.82	0.43
1:Z:599:VAL:HG11	1:Z:605:VAL:HG11	2.01	0.43
1:a:145:THR:HG22	1:a:591:VAL:HB	2.00	0.43
1:a:488:GLN:HG3	1:a:489:GLU:H	1.83	0.43
1:a:601:CYS:HB3	1:8:255:ASN:OD1	2.17	0.43
1:b:45:PHE:CD2	1:o:265:ILE:HD12	2.53	0.43
1:b:92:HIS:HA	1:b:240:ASP:H	1.83	0.43
1:c:255:ASN:OD1	1:p:601:CYS:HB3	2.17	0.43
1:f:92:HIS:HA	1:f:240:ASP:H	1.83	0.43
1:f:265:ILE:HD12	1:z:45:PHE:CD2	2.53	0.43
1:f:402:THR:HG21	1:g:336:HIS:HE1	1.78	0.43
1:g:197:LEU:HD21	1:h:351:ARG:HE	1.82	0.43
1:h:488:GLN:HG3	1:h:489:GLU:H	1.82	0.43
1:h:531:LYS:HB2	1:h:553:PRO:HG3	2.00	0.43
1:i:375:PHE:CE2	1:k:349:MET:HG2	2.53	0.43
1:l:382:TRP:HB2	1:l:463:GLY:O	2.17	0.43
1:p:145:THR:HG22	1:p:591:VAL:HB	2.00	0.43
1:p:488:GLN:HG3	1:p:489:GLU:H	1.82	0.43
1:r:48:THR:H	1:r:63:HIS:HB2	1.83	0.43
1:r:349:MET:HG2	1:s:375:PHE:CE2	2.53	0.43
1:t:348:GLU:HB2	1:u:105:ASP:HA	2.00	0.43
1:t:488:GLN:HG3	1:t:489:GLU:H	1.82	0.43
1:v:531:LYS:HB2	1:v:553:PRO:HG3	2.00	0.43
1:w:197:LEU:HD21	1:y:351:ARG:HE	1.82	0.43
1:w:488:GLN:HG3	1:w:489:GLU:H	1.82	0.43
1:w:531:LYS:HB2	1:w:553:PRO:HG3	2.00	0.43
1:z:599:VAL:HG11	1:z:605:VAL:HG11	2.00	0.43
1:2:45:PHE:CD2	1:3:265:ILE:HD12	2.53	0.43
1:3:197:LEU:HD21	1:4:351:ARG:HE	1.82	0.43
1:3:367:PRO:HB2	1:4:471:HIS:HD2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:488:GLN:HG3	1:3:489:GLU:H	1.82	0.43
1:6:599:VAL:HG11	1:6:605:VAL:HG11	2.00	0.43
1:8:348:GLU:OE1	1:8:348:GLU:HA	2.17	0.43
1:8:599:VAL:HG11	1:8:605:VAL:HG11	2.00	0.43
1:A:192:THR:HB	1:I:300:LEU:HG	2.00	0.43
1:B:348:GLU:OE1	1:B:348:GLU:HA	2.17	0.43
1:B:471:HIS:HD2	1:J:367:PRO:HB2	1.83	0.43
1:E:218:HIS:CE1	1:E:255:ASN:H	2.34	0.43
1:E:488:GLN:HG3	1:E:489:GLU:H	1.82	0.43
1:E:531:LYS:HB2	1:E:553:PRO:HG3	2.00	0.43
1:G:351:ARG:HE	1:I:197:LEU:HD21	1.82	0.43
1:M:80:ILE:HG22	1:b:314:VAL:HG11	2.01	0.43
1:M:531:LYS:HB2	1:M:553:PRO:HG3	2.00	0.43
1:N:45:PHE:CD2	1:m:265:ILE:HD12	2.53	0.43
1:N:314:VAL:HG11	1:P:80:ILE:HG22	2.00	0.43
1:O:145:THR:HG22	1:O:591:VAL:HB	2.00	0.43
1:O:197:LEU:HD21	1:n:351:ARG:HE	1.82	0.43
1:O:599:VAL:HG11	1:O:605:VAL:HG11	2.00	0.43
1:T:45:PHE:CD2	1:U:265:ILE:HD12	2.53	0.43
1:T:92:HIS:HA	1:T:240:ASP:H	1.83	0.43
1:T:349:MET:HG2	1:d:375:PHE:CE2	2.53	0.43
1:U:531:LYS:HB2	1:U:553:PRO:HG3	2.00	0.43
1:Y:531:LYS:HB2	1:Y:553:PRO:HG3	2.00	0.43
1:Y:599:VAL:HG11	1:Y:605:VAL:HG11	2.00	0.43
1:Z:255:ASN:OD1	1:3:601:CYS:HB3	2.17	0.43
1:c:265:ILE:HD12	1:s:45:PHE:CD2	2.53	0.43
1:c:375:PHE:CE2	1:p:349:MET:HG2	2.53	0.43
1:c:599:VAL:HG11	1:c:605:VAL:HG11	2.00	0.43
1:d:314:VAL:HG11	1:l:80:ILE:HG22	2.01	0.43
1:d:351:ARG:HE	1:l:197:LEU:HD21	1.82	0.43
1:e:599:VAL:HG11	1:e:605:VAL:HG11	2.00	0.43
1:f:314:VAL:HG11	1:h:80:ILE:HG22	2.01	0.43
1:g:348:GLU:OE1	1:g:348:GLU:HA	2.17	0.43
1:j:45:PHE:CD2	1:x:265:ILE:HD12	2.53	0.43
1:k:530:ASP:OD1	1:k:531:LYS:N	2.48	0.43
1:m:45:PHE:CD2	1:s:265:ILE:HD12	2.53	0.43
1:m:92:HIS:HA	1:m:240:ASP:H	1.83	0.43
1:m:349:MET:HG2	1:n:375:PHE:CE2	2.53	0.43
1:p:90:LYS:NZ	1:p:244:ASP:OD2	2.32	0.43
1:p:96:LEU:N	1:p:96:LEU:CD2	2.73	0.43
1:q:255:ASN:OD1	1:s:601:CYS:HB3	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:96:LEU:H	1:r:96:LEU:CD2	2.03	0.43
1:r:348:GLU:HB2	1:s:105:ASP:HA	2.00	0.43
1:s:531:LYS:HB2	1:s:553:PRO:HG3	2.00	0.43
1:v:92:HIS:HA	1:v:240:ASP:H	1.83	0.43
1:v:599:VAL:HG11	1:v:605:VAL:HG11	2.00	0.43
1:w:348:GLU:HA	1:w:348:GLU:OE1	2.17	0.43
1:1:348:GLU:HA	1:1:348:GLU:OE1	2.17	0.43
1:2:488:GLN:HG3	1:2:489:GLU:H	1.82	0.43
1:5:349:MET:HG2	1:6:375:PHE:CE2	2.54	0.43
1:7:48:THR:H	1:7:63:HIS:HB2	1.83	0.43
1:7:260:GLU:OE1	1:7:260:GLU:N	2.49	0.43
1:A:92:HIS:HA	1:A:240:ASP:H	1.83	0.43
1:C:348:GLU:OE1	1:C:348:GLU:HA	2.17	0.43
1:E:48:THR:H	1:E:63:HIS:HB2	1.82	0.43
1:G:531:LYS:HB2	1:G:553:PRO:HG3	2.00	0.43
1:H:314:VAL:HG11	1:W:80:ILE:HG22	2.01	0.43
1:H:471:HIS:HD2	1:W:367:PRO:HB2	1.83	0.43
1:K:260:GLU:OE1	1:K:260:GLU:N	2.49	0.43
1:K:351:ARG:HE	1:a:197:LEU:HD21	1.82	0.43
1:R:348:GLU:HB2	1:S:105:ASP:HA	2.00	0.43
1:R:367:PRO:HB2	1:U:471:HIS:HD2	1.83	0.43
1:R:471:HIS:HD2	1:S:367:PRO:HB2	1.83	0.43
1:S:96:LEU:H	1:S:96:LEU:CD2	2.03	0.43
1:S:348:GLU:HB2	1:U:105:ASP:HA	2.00	0.43
1:U:92:HIS:HA	1:U:240:ASP:H	1.83	0.43
1:V:197:LEU:HD21	1:X:351:ARG:HE	1.83	0.43
1:V:349:MET:HG2	1:e:375:PHE:CE2	2.53	0.43
1:V:488:GLN:HG3	1:V:489:GLU:H	1.83	0.43
1:W:599:VAL:HG11	1:W:605:VAL:HG11	2.01	0.43
1:Y:48:THR:H	1:Y:63:HIS:HB2	1.83	0.43
1:b:96:LEU:N	1:b:96:LEU:CD2	2.73	0.43
1:c:226:TYR:O	1:c:229:ILE:HG23	2.16	0.43
1:c:531:LYS:HB2	1:c:553:PRO:HG3	2.00	0.43
1:e:531:LYS:HB2	1:e:553:PRO:HG3	2.00	0.43
1:g:92:HIS:HA	1:g:240:ASP:H	1.83	0.43
1:i:314:VAL:HG11	1:j:80:ILE:HG22	2.00	0.43
1:i:349:MET:HG2	1:j:375:PHE:CE2	2.53	0.43
1:j:300:LEU:HG	1:k:192:THR:HB	2.01	0.43
1:l:145:THR:HG22	1:l:591:VAL:HB	2.00	0.43
1:l:148:GLN:HG3	1:l:276:THR:CG2	2.44	0.43
1:l:599:VAL:HG11	1:l:605:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:45:PHE:CD2	1:7:265:ILE:HD12	2.53	0.43
1:q:348:GLU:HB2	1:r:105:ASP:HA	2.00	0.43
1:q:603:ASN:OD1	1:q:603:ASN:N	2.47	0.43
1:r:396:LEU:HD23	1:r:397:GLN:N	2.32	0.43
1:s:599:VAL:HG11	1:s:605:VAL:HG11	2.00	0.43
1:t:351:ARG:HE	1:u:197:LEU:HD21	1.82	0.43
1:t:531:LYS:HB2	1:t:553:PRO:HG3	2.00	0.43
1:v:265:ILE:HD12	1:1:45:PHE:CD2	2.53	0.43
1:w:48:THR:H	1:w:63:HIS:HB2	1.82	0.43
1:w:218:HIS:CE1	1:w:255:ASN:H	2.34	0.43
1:y:313:LYS:O	1:y:316:SER:OG	2.26	0.43
1:z:92:HIS:HA	1:z:240:ASP:H	1.83	0.43
1:1:92:HIS:HA	1:1:240:ASP:H	1.83	0.43
1:3:145:THR:HG22	1:3:591:VAL:HB	2.00	0.43
1:4:599:VAL:HG11	1:4:605:VAL:HG11	2.00	0.43
1:5:314:VAL:HG11	1:6:80:ILE:HG22	2.01	0.43
1:7:531:LYS:HB2	1:7:553:PRO:HG3	2.00	0.43
1:7:599:VAL:HG11	1:7:605:VAL:HG11	2.00	0.43
1:8:48:THR:H	1:8:63:HIS:HB2	1.82	0.43
1:A:339:GLY:O	1:G:403:ARG:HG2	2.18	0.43
1:B:92:HIS:HA	1:B:240:ASP:H	1.83	0.43
1:B:367:PRO:HB2	1:L:471:HIS:HD2	1.83	0.43
1:C:92:HIS:HA	1:C:240:ASP:H	1.83	0.43
1:C:396:LEU:C	1:C:398:GLN:H	2.27	0.43
1:C:531:LYS:HB2	1:C:553:PRO:HG3	2.00	0.43
1:D:80:ILE:HG22	1:P:314:VAL:HG11	2.01	0.43
1:D:192:THR:HB	1:P:300:LEU:HG	2.01	0.43
1:D:530:ASP:OD1	1:D:531:LYS:N	2.48	0.43
1:E:471:HIS:HD2	1:Q:367:PRO:HB2	1.84	0.43
1:F:530:ASP:OD1	1:F:531:LYS:N	2.48	0.43
1:G:349:MET:HG2	1:I:375:PHE:CE2	2.54	0.43
1:H:531:LYS:HB2	1:H:553:PRO:HG3	2.00	0.43
1:I:45:PHE:CD2	1:J:265:ILE:HD12	2.53	0.43
1:I:531:LYS:HB2	1:I:553:PRO:HG3	2.00	0.43
1:K:349:MET:HG2	1:a:375:PHE:CE2	2.53	0.43
1:K:367:PRO:HB2	1:8:471:HIS:HD2	1.84	0.43
1:K:375:PHE:CE2	1:8:349:MET:HG2	2.53	0.43
1:K:599:VAL:HG11	1:K:605:VAL:HG11	2.00	0.43
1:N:349:MET:HG2	1:P:375:PHE:CE2	2.53	0.43
1:R:265:ILE:HD12	1:V:45:PHE:CD2	2.53	0.43
1:S:396:LEU:C	1:S:398:GLN:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:531:LYS:HB2	1:S:553:PRO:HG3	2.00	0.43
1:T:265:ILE:HD12	1:i:45:PHE:CD2	2.53	0.43
1:T:375:PHE:CE2	1:l:349:MET:HG2	2.53	0.43
1:U:599:VAL:HG11	1:U:605:VAL:HG11	2.00	0.43
1:V:265:ILE:HD12	1:W:45:PHE:CD2	2.53	0.43
1:W:92:HIS:HA	1:W:240:ASP:H	1.83	0.43
1:W:349:MET:HG2	1:Y:375:PHE:CE2	2.53	0.43
1:X:403:ARG:HG2	1:e:339:GLY:O	2.18	0.43
1:Y:45:PHE:CD2	1:4:265:ILE:HD12	2.53	0.43
1:Y:260:GLU:OE1	1:Y:260:GLU:N	2.49	0.43
1:Z:48:THR:H	1:Z:63:HIS:HB2	1.82	0.43
1:Z:80:ILE:HG22	1:3:314:VAL:HG11	2.00	0.43
1:a:314:VAL:HG11	1:8:80:ILE:HG22	2.01	0.43
1:b:48:THR:H	1:b:63:HIS:HB2	1.83	0.43
1:c:396:LEU:C	1:c:398:GLN:H	2.27	0.43
1:c:601:CYS:HB3	1:o:255:ASN:OD1	2.17	0.43
1:d:599:VAL:HG11	1:d:605:VAL:HG11	2.00	0.43
1:e:45:PHE:CD2	1:h:265:ILE:HD12	2.53	0.43
1:e:48:THR:H	1:e:63:HIS:HB2	1.82	0.43
1:e:218:HIS:CE1	1:e:255:ASN:H	2.34	0.43
1:e:382:TRP:HB2	1:e:463:GLY:O	2.17	0.43
1:e:396:LEU:C	1:e:398:GLN:H	2.27	0.43
1:f:48:THR:H	1:f:63:HIS:HB2	1.83	0.43
1:g:396:LEU:C	1:g:398:GLN:H	2.27	0.43
1:h:92:HIS:HA	1:h:240:ASP:H	1.83	0.43
1:m:96:LEU:H	1:m:96:LEU:CD2	2.03	0.43
1:n:599:VAL:HG11	1:n:605:VAL:HG11	2.00	0.43
1:o:145:THR:HG22	1:o:591:VAL:HB	2.00	0.43
1:p:92:HIS:HA	1:p:240:ASP:H	1.83	0.43
1:p:265:ILE:HD12	1:6:45:PHE:CD2	2.53	0.43
1:q:314:VAL:HG11	1:r:80:ILE:HG22	2.01	0.43
1:q:367:PRO:HB2	1:s:471:HIS:HD2	1.83	0.43
1:r:92:HIS:HA	1:r:240:ASP:H	1.83	0.43
1:r:396:LEU:C	1:r:398:GLN:H	2.27	0.43
1:r:531:LYS:HB2	1:r:553:PRO:HG3	2.00	0.43
1:s:92:HIS:HA	1:s:240:ASP:H	1.83	0.43
1:t:349:MET:HG2	1:u:375:PHE:CE2	2.54	0.43
1:u:45:PHE:CD2	1:2:265:ILE:HD12	2.53	0.43
1:u:349:MET:HG2	1:v:375:PHE:CE2	2.53	0.43
1:u:531:LYS:HB2	1:u:553:PRO:HG3	2.00	0.43
1:1:96:LEU:N	1:1:96:LEU:CD2	2.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:471:HIS:HD2	1:2:367:PRO:HB2	1.83	0.43
1:3:375:PHE:CE2	1:4:349:MET:HG2	2.53	0.43
1:5:471:HIS:HD2	1:6:367:PRO:HB2	1.83	0.43
1:6:349:MET:HG2	1:7:375:PHE:CE2	2.53	0.43
1:A:265:ILE:HD12	1:B:45:PHE:CD2	2.54	0.43
1:B:105:ASP:HA	1:L:348:GLU:HB2	2.00	0.43
1:B:265:ILE:HD12	1:C:45:PHE:CD2	2.53	0.43
1:D:314:VAL:HG11	1:N:80:ILE:HG22	2.01	0.43
1:D:599:VAL:HG11	1:D:605:VAL:HG11	2.00	0.43
1:F:599:VAL:HG11	1:F:605:VAL:HG11	2.00	0.43
1:H:197:LEU:HD21	1:Y:351:ARG:HE	1.82	0.43
1:H:265:ILE:HD12	1:Z:45:PHE:CD2	2.53	0.43
1:L:92:HIS:HA	1:L:240:ASP:H	1.83	0.43
1:M:45:PHE:CD2	1:N:265:ILE:HD12	2.53	0.43
1:M:92:HIS:HA	1:M:240:ASP:H	1.83	0.43
1:M:265:ILE:HD12	1:c:45:PHE:CD2	2.53	0.43
1:N:129:LYS:HE3	1:N:129:LYS:HB3	1.88	0.43
1:R:80:ILE:HG22	1:U:314:VAL:HG11	2.01	0.43
1:R:314:VAL:HG11	1:S:80:ILE:HG22	2.01	0.43
1:R:531:LYS:HB2	1:R:553:PRO:HG3	2.00	0.43
1:S:92:HIS:HA	1:S:240:ASP:H	1.83	0.43
1:T:488:GLN:HG3	1:T:489:GLU:H	1.82	0.43
1:V:92:HIS:HA	1:V:240:ASP:H	1.83	0.43
1:V:96:LEU:N	1:V:96:LEU:CD2	2.73	0.43
1:X:145:THR:HG22	1:X:591:VAL:HB	2.00	0.43
1:X:197:LEU:HD21	1:e:351:ARG:HE	1.84	0.43
1:Z:349:MET:HG2	1:4:375:PHE:CE2	2.54	0.43
1:b:145:THR:HG22	1:b:591:VAL:HB	2.00	0.43
1:c:218:HIS:CE1	1:c:255:ASN:H	2.34	0.43
1:c:382:TRP:HB2	1:c:463:GLY:O	2.17	0.43
1:e:226:TYR:O	1:e:229:ILE:HG23	2.16	0.43
1:f:471:HIS:HD2	1:h:367:PRO:HB2	1.84	0.43
1:g:45:PHE:CD2	1:1:265:ILE:HD12	2.53	0.43
1:g:148:GLN:HG3	1:g:276:THR:CG2	2.44	0.43
1:g:531:LYS:HB2	1:g:553:PRO:HG3	2.00	0.43
1:h:48:THR:H	1:h:63:HIS:HB2	1.82	0.43
1:i:80:ILE:HG22	1:k:314:VAL:HG11	2.01	0.43
1:i:351:ARG:HE	1:j:197:LEU:HD21	1.82	0.43
1:j:313:LYS:O	1:j:316:SER:OG	2.26	0.43
1:j:314:VAL:HG11	1:k:80:ILE:HG22	2.01	0.43
1:k:599:VAL:HG11	1:k:605:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:314:VAL:HG11	1:p:80:ILE:HG22	2.00	0.43
1:p:45:PHE:CD2	1:q:265:ILE:HD12	2.53	0.43
1:q:471:HIS:HD2	1:r:367:PRO:HB2	1.83	0.43
1:t:80:ILE:HG22	1:v:314:VAL:HG11	2.00	0.43
1:t:145:THR:HG22	1:t:591:VAL:HB	2.00	0.43
1:u:314:VAL:HG11	1:v:80:ILE:HG22	2.00	0.43
1:w:471:HIS:HD2	1:x:367:PRO:HB2	1.84	0.43
1:x:471:HIS:HD2	1:y:367:PRO:HB2	1.83	0.43
1:y:48:THR:H	1:y:63:HIS:HB2	1.82	0.43
1:y:531:LYS:HB2	1:y:553:PRO:HG3	2.00	0.43
1:y:599:VAL:HG11	1:y:605:VAL:HG11	2.00	0.43
1:z:348:GLU:HB2	1:1:105:ASP:HA	2.00	0.43
1:z:471:HIS:HD2	1:1:367:PRO:HB2	1.83	0.43
1:5:197:LEU:HD21	1:7:351:ARG:HE	1.82	0.43
1:5:265:ILE:HD12	1:8:45:PHE:CD2	2.53	0.43
1:5:531:LYS:HB2	1:5:553:PRO:HG3	2.00	0.43
1:A:396:LEU:C	1:A:398:GLN:H	2.27	0.43
1:C:265:ILE:HD12	1:D:45:PHE:CD2	2.53	0.43
1:D:348:GLU:HB2	1:N:105:ASP:HA	2.00	0.43
1:E:396:LEU:C	1:E:398:GLN:H	2.27	0.43
1:F:108:GLN:NE2	1:F:218:HIS:HD2	2.17	0.43
1:F:367:PRO:HB2	1:Q:471:HIS:HD2	1.83	0.43
1:F:375:PHE:CE2	1:Q:349:MET:HG2	2.53	0.43
1:F:531:LYS:HB2	1:F:553:PRO:HG3	2.00	0.43
1:K:129:LYS:HE3	1:K:129:LYS:HB3	1.88	0.43
1:K:265:ILE:HD12	1:7:45:PHE:CD2	2.53	0.43
1:L:396:LEU:C	1:L:398:GLN:H	2.27	0.43
1:M:367:PRO:HB2	1:b:471:HIS:HD2	1.84	0.43
1:O:300:LEU:HG	1:m:192:THR:HB	2.01	0.43
1:O:348:GLU:HB2	1:m:105:ASP:HA	2.00	0.43
1:O:349:MET:HG2	1:m:375:PHE:CE2	2.54	0.43
1:P:92:HIS:HA	1:P:240:ASP:H	1.83	0.43
1:P:145:THR:HG22	1:P:591:VAL:HB	2.00	0.43
1:T:108:GLN:NE2	1:T:218:HIS:HD2	2.17	0.43
1:T:192:THR:HB	1:l:300:LEU:HG	2.01	0.43
1:V:383:SER:HB3	1:V:398:GLN:HA	2.01	0.43
1:X:80:ILE:HG22	1:e:314:VAL:HG11	2.00	0.43
1:Z:192:THR:HB	1:3:300:LEU:HG	2.01	0.43
1:Z:348:GLU:OE1	1:Z:348:GLU:HA	2.17	0.43
1:a:92:HIS:HA	1:a:240:ASP:H	1.83	0.43
1:c:48:THR:H	1:c:63:HIS:HB2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:314:VAL:HG11	1:o:80:ILE:HG22	2.01	0.43
1:f:145:THR:HG22	1:f:591:VAL:HB	2.00	0.43
1:h:45:PHE:CD2	1:i:265:ILE:HD12	2.53	0.43
1:i:105:ASP:HA	1:k:348:GLU:HB2	2.00	0.43
1:j:92:HIS:HA	1:j:240:ASP:H	1.83	0.43
1:j:145:THR:HG22	1:j:591:VAL:HB	2.00	0.43
1:j:348:GLU:OE1	1:j:348:GLU:HA	2.17	0.43
1:m:235:GLU:O	1:m:236:THR:CG2	2.64	0.43
1:p:383:SER:HB3	1:p:398:GLN:HA	2.01	0.43
1:q:80:ILE:HG22	1:s:314:VAL:HG11	2.01	0.43
1:q:192:THR:H	1:q:556:GLN:NE2	2.06	0.43
1:q:531:LYS:HB2	1:q:553:PRO:HG3	2.00	0.43
1:r:145:THR:HG22	1:r:591:VAL:HB	2.00	0.43
1:r:300:LEU:HG	1:s:192:THR:HB	2.01	0.43
1:t:105:ASP:HA	1:v:348:GLU:HB2	2.00	0.43
1:t:471:HIS:HD2	1:u:367:PRO:HB2	1.84	0.43
1:v:45:PHE:CD2	1:w:265:ILE:HD12	2.53	0.43
1:v:383:SER:HB3	1:v:398:GLN:HA	2.01	0.43
1:v:396:LEU:C	1:v:398:GLN:H	2.27	0.43
1:w:396:LEU:C	1:w:398:GLN:H	2.27	0.43
1:y:108:GLN:NE2	1:y:218:HIS:HD2	2.17	0.43
1:y:530:ASP:OD1	1:y:531:LYS:N	2.48	0.43
1:z:48:THR:H	1:z:63:HIS:HB2	1.83	0.43
1:z:396:LEU:C	1:z:398:GLN:H	2.27	0.43
1:3:92:HIS:HA	1:3:240:ASP:H	1.83	0.43
1:4:260:GLU:OE1	1:4:260:GLU:N	2.49	0.43
1:6:92:HIS:HA	1:6:240:ASP:H	1.83	0.43
1:6:108:GLN:NE2	1:6:218:HIS:HD2	2.17	0.43
1:C:148:GLN:HG3	1:C:276:THR:CG2	2.44	0.43
1:C:349:MET:HG2	1:b:375:PHE:CE2	2.53	0.43
1:D:108:GLN:NE2	1:D:218:HIS:HD2	2.17	0.43
1:D:396:LEU:C	1:D:398:GLN:H	2.27	0.43
1:E:349:MET:HG2	1:Q:375:PHE:CE2	2.54	0.43
1:F:48:THR:H	1:F:63:HIS:HB2	1.82	0.43
1:F:192:THR:HB	1:Q:300:LEU:HG	2.01	0.43
1:G:145:THR:HG22	1:G:591:VAL:HB	2.00	0.43
1:G:471:HIS:HD2	1:I:367:PRO:HB2	1.84	0.43
1:I:260:GLU:OE1	1:I:260:GLU:N	2.49	0.43
1:J:92:HIS:HA	1:J:240:ASP:H	1.83	0.43
1:J:300:LEU:HG	1:L:192:THR:HB	2.01	0.43
1:J:348:GLU:OE1	1:J:348:GLU:HA	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:471:HIS:HD2	1:L:367:PRO:HB2	1.83	0.43
1:J:531:LYS:HB2	1:J:553:PRO:HG3	2.00	0.43
1:M:48:THR:H	1:M:63:HIS:HB2	1.82	0.43
1:M:105:ASP:HA	1:b:348:GLU:HB2	2.00	0.43
1:N:108:GLN:NE2	1:N:218:HIS:HD2	2.17	0.43
1:N:351:ARG:HE	1:P:197:LEU:HD21	1.82	0.43
1:N:396:LEU:C	1:N:398:GLN:H	2.27	0.43
1:O:148:GLN:HG3	1:O:276:THR:CG2	2.44	0.43
1:R:145:THR:HG22	1:R:591:VAL:HB	2.00	0.43
1:S:145:THR:HG22	1:S:591:VAL:HB	2.00	0.43
1:S:300:LEU:HG	1:U:192:THR:HB	2.01	0.43
1:T:105:ASP:HA	1:l:348:GLU:HB2	2.00	0.43
1:T:260:GLU:OE1	1:T:260:GLU:N	2.49	0.43
1:T:599:VAL:HG11	1:T:605:VAL:HG11	2.00	0.43
1:V:80:ILE:HG22	1:X:314:VAL:HG11	2.00	0.43
1:W:108:GLN:NE2	1:W:218:HIS:HD2	2.17	0.43
1:X:599:VAL:HG11	1:X:605:VAL:HG11	2.00	0.43
1:Z:108:GLN:NE2	1:Z:218:HIS:HD2	2.17	0.43
1:Z:471:HIS:HD2	1:4:367:PRO:HB2	1.84	0.43
1:Z:531:LYS:HB2	1:Z:553:PRO:HG3	2.00	0.43
1:a:530:ASP:OD1	1:a:531:LYS:N	2.48	0.43
1:e:530:ASP:OD1	1:e:531:LYS:N	2.48	0.43
1:f:375:PHE:CE2	1:g:349:MET:HG2	2.53	0.43
1:f:531:LYS:HB2	1:f:553:PRO:HG3	2.00	0.43
1:g:265:ILE:HD12	1:k:45:PHE:CD2	2.53	0.43
1:h:396:LEU:C	1:h:398:GLN:H	2.27	0.43
1:h:530:ASP:OD1	1:h:531:LYS:N	2.48	0.43
1:i:92:HIS:HA	1:i:240:ASP:H	1.83	0.43
1:i:108:GLN:NE2	1:i:218:HIS:HD2	2.17	0.43
1:i:396:LEU:C	1:i:398:GLN:H	2.27	0.43
1:k:108:GLN:NE2	1:k:218:HIS:HD2	2.17	0.43
1:m:599:VAL:HG11	1:m:605:VAL:HG11	2.01	0.43
1:o:349:MET:HG2	1:p:375:PHE:CE2	2.53	0.43
1:p:260:GLU:OE1	1:p:260:GLU:N	2.49	0.43
1:t:375:PHE:CE2	1:v:349:MET:HG2	2.54	0.43
1:w:349:MET:HG2	1:x:375:PHE:CE2	2.54	0.43
1:x:92:HIS:HA	1:x:240:ASP:H	1.83	0.43
1:x:300:LEU:HG	1:y:192:THR:HB	2.01	0.43
1:x:349:MET:HG2	1:y:375:PHE:CE2	2.53	0.43
1:z:192:THR:HB	1:2:300:LEU:HG	2.01	0.43
1:z:265:ILE:HD12	1:4:45:PHE:CD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:367:PRO:HB2	1:2:471:HIS:HD2	1.83	0.43
1:1:48:THR:H	1:1:63:HIS:HB2	1.82	0.43
1:1:108:GLN:NE2	1:1:218:HIS:HD2	2.17	0.43
1:2:348:GLU:OE1	1:2:348:GLU:HA	2.17	0.43
1:2:396:LEU:C	1:2:398:GLN:H	2.27	0.43
1:2:531:LYS:HB2	1:2:553:PRO:HG3	2.00	0.43
1:3:108:GLN:NE2	1:3:218:HIS:HD2	2.17	0.43
1:3:530:ASP:OD1	1:3:531:LYS:N	2.48	0.43
1:4:396:LEU:C	1:4:398:GLN:H	2.27	0.43
1:7:383:SER:HB3	1:7:398:GLN:HA	2.01	0.43
1:8:92:HIS:HA	1:8:240:ASP:H	1.83	0.43
1:A:351:ARG:HE	1:G:197:LEU:HD21	1.83	0.43
1:A:367:PRO:HB2	1:I:471:HIS:HD2	1.84	0.43
1:A:375:PHE:CE2	1:I:349:MET:HG2	2.54	0.43
1:A:383:SER:HB3	1:A:398:GLN:HA	2.01	0.43
1:B:96:LEU:N	1:B:96:LEU:CD2	2.73	0.43
1:B:108:GLN:NE2	1:B:218:HIS:HD2	2.17	0.43
1:B:375:PHE:CE2	1:L:349:MET:HG2	2.53	0.43
1:C:108:GLN:NE2	1:C:218:HIS:HD2	2.17	0.43
1:C:471:HIS:HD2	1:b:367:PRO:HB2	1.83	0.43
1:D:48:THR:H	1:D:63:HIS:HB2	1.83	0.43
1:E:108:GLN:NE2	1:E:218:HIS:HD2	2.17	0.43
1:F:313:LYS:O	1:F:316:SER:OG	2.26	0.43
1:H:375:PHE:CE2	1:Y:349:MET:HG2	2.53	0.43
1:I:145:THR:HG22	1:I:591:VAL:HB	2.00	0.43
1:J:396:LEU:C	1:J:398:GLN:H	2.27	0.43
1:K:45:PHE:CD2	1:L:265:ILE:HD12	2.53	0.43
1:K:396:LEU:C	1:K:398:GLN:H	2.27	0.43
1:L:48:THR:H	1:L:63:HIS:HB2	1.83	0.43
1:M:396:LEU:C	1:M:398:GLN:H	2.27	0.43
1:M:530:ASP:OD1	1:M:531:LYS:N	2.48	0.43
1:N:300:LEU:HG	1:P:192:THR:HB	2.01	0.43
1:N:471:HIS:HD2	1:P:367:PRO:HB2	1.83	0.43
1:O:45:PHE:CD2	1:P:265:ILE:HD12	2.53	0.43
1:O:192:THR:HB	1:n:300:LEU:HG	2.01	0.43
1:P:260:GLU:OE1	1:P:260:GLU:N	2.49	0.43
1:P:348:GLU:OE1	1:P:348:GLU:HA	2.17	0.43
1:Q:92:HIS:HA	1:Q:240:ASP:H	1.83	0.43
1:R:92:HIS:HA	1:R:240:ASP:H	1.83	0.43
1:T:235:GLU:O	1:T:236:THR:CG2	2.64	0.43
1:T:314:VAL:HG11	1:d:80:ILE:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:488:GLN:HG3	1:X:489:GLU:H	1.82	0.43
1:X:531:LYS:HB2	1:X:553:PRO:HG3	2.00	0.43
1:Z:92:HIS:HA	1:Z:240:ASP:H	1.83	0.43
1:Z:375:PHE:CE2	1:3:349:MET:HG2	2.53	0.43
1:a:108:GLN:NE2	1:a:218:HIS:HD2	2.17	0.43
1:a:300:LEU:HG	1:8:192:THR:HB	2.01	0.43
1:b:530:ASP:OD1	1:b:531:LYS:N	2.48	0.43
1:b:531:LYS:HB2	1:b:553:PRO:HG3	2.00	0.43
1:c:471:HIS:HD2	1:o:367:PRO:HB2	1.84	0.43
1:d:92:HIS:HA	1:d:240:ASP:H	1.83	0.43
1:f:101:PHE:HZ	1:f:366:ILE:HD11	1.84	0.43
1:g:108:GLN:NE2	1:g:218:HIS:HD2	2.17	0.43
1:i:300:LEU:HG	1:j:192:THR:HB	2.01	0.43
1:j:396:LEU:C	1:j:398:GLN:H	2.27	0.43
1:k:396:LEU:C	1:k:398:GLN:H	2.27	0.43
1:m:108:GLN:NE2	1:m:218:HIS:HD2	2.17	0.43
1:m:383:SER:HB3	1:m:398:GLN:HA	2.01	0.43
1:n:92:HIS:HA	1:n:240:ASP:H	1.83	0.43
1:o:599:VAL:HG11	1:o:605:VAL:HG11	2.00	0.43
1:q:92:HIS:HA	1:q:240:ASP:H	1.83	0.43
1:q:145:THR:HG22	1:q:591:VAL:HB	2.00	0.43
1:q:349:MET:HG2	1:r:375:PHE:CE2	2.53	0.43
1:t:45:PHE:CD2	1:6:265:ILE:HD12	2.54	0.43
1:t:197:LEU:HD21	1:v:351:ARG:HE	1.82	0.43
1:u:260:GLU:OE1	1:u:260:GLU:N	2.49	0.43
1:z:349:MET:HG2	1:1:375:PHE:CE2	2.53	0.43
1:6:348:GLU:HB2	1:7:105:ASP:HA	2.00	0.43
1:8:108:GLN:NE2	1:8:218:HIS:HD2	2.17	0.43
1:A:108:GLN:NE2	1:A:218:HIS:HD2	2.17	0.43
1:A:348:GLU:HB2	1:G:105:ASP:HA	2.00	0.43
1:B:48:THR:H	1:B:63:HIS:HB2	1.82	0.43
1:B:80:ILE:HG22	1:L:314:VAL:HG11	2.01	0.43
1:B:383:SER:HB3	1:B:398:GLN:HA	2.01	0.43
1:F:45:PHE:CD2	1:G:265:ILE:HD12	2.53	0.43
1:G:45:PHE:CD2	1:W:265:ILE:HD12	2.54	0.43
1:H:47:ASN:ND2	1:H:66:ARG:HH12	2.17	0.43
1:H:145:THR:HG22	1:H:591:VAL:HB	2.00	0.43
1:K:531:LYS:HB2	1:K:553:PRO:HG3	2.00	0.43
1:L:260:GLU:OE1	1:L:260:GLU:N	2.49	0.43
1:M:192:THR:HB	1:b:300:LEU:HG	2.01	0.43
1:N:47:ASN:ND2	1:N:66:ARG:HH12	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:92:HIS:HA	1:N:240:ASP:H	1.83	0.43
1:O:108:GLN:NE2	1:O:218:HIS:HD2	2.17	0.43
1:P:396:LEU:C	1:P:398:GLN:H	2.27	0.43
1:R:349:MET:HG2	1:S:375:PHE:CE2	2.53	0.43
1:S:108:GLN:NE2	1:S:218:HIS:HD2	2.17	0.43
1:T:383:SER:HB3	1:T:398:GLN:HA	2.01	0.43
1:V:96:LEU:H	1:V:96:LEU:CD2	2.03	0.43
1:V:260:GLU:OE1	1:V:260:GLU:N	2.49	0.43
1:V:471:HIS:HD2	1:e:367:PRO:HB2	1.83	0.43
1:V:531:LYS:HB2	1:V:553:PRO:HG3	2.00	0.43
1:W:145:THR:HG22	1:W:591:VAL:HB	2.00	0.43
1:W:348:GLU:HB2	1:Y:105:ASP:HA	2.00	0.43
1:Y:383:SER:HB3	1:Y:398:GLN:HA	2.01	0.43
1:Z:383:SER:HB3	1:Z:398:GLN:HA	2.01	0.43
1:a:349:MET:HG2	1:8:375:PHE:CE2	2.53	0.43
1:b:101:PHE:HZ	1:b:366:ILE:HD11	1.84	0.43
1:c:349:MET:HG2	1:o:375:PHE:CE2	2.53	0.43
1:c:367:PRO:HB2	1:p:471:HIS:HD2	1.83	0.43
1:d:349:MET:HG2	1:l:375:PHE:CE2	2.53	0.43
1:f:300:LEU:HG	1:h:192:THR:HB	2.01	0.43
1:f:348:GLU:HB2	1:h:105:ASP:HA	2.00	0.43
1:f:367:PRO:HB2	1:g:471:HIS:HD2	1.83	0.43
1:g:105:ASP:HA	1:h:348:GLU:HB2	2.00	0.43
1:g:375:PHE:CE2	1:h:349:MET:HG2	2.53	0.43
1:g:383:SER:HB3	1:g:398:GLN:HA	2.01	0.43
1:j:260:GLU:OE1	1:j:260:GLU:N	2.49	0.43
1:k:48:THR:H	1:k:63:HIS:HB2	1.83	0.43
1:l:108:GLN:NE2	1:l:218:HIS:HD2	2.17	0.43
1:m:314:VAL:HG11	1:n:80:ILE:HG22	2.00	0.43
1:m:348:GLU:HB2	1:n:105:ASP:HA	2.00	0.43
1:m:488:GLN:HG3	1:m:489:GLU:H	1.83	0.43
1:n:148:GLN:HG3	1:n:276:THR:CG2	2.44	0.43
1:o:92:HIS:HA	1:o:240:ASP:H	1.83	0.43
1:o:101:PHE:HZ	1:o:366:ILE:HD11	1.84	0.43
1:o:531:LYS:HB2	1:o:553:PRO:HG3	2.00	0.43
1:q:396:LEU:C	1:q:398:GLN:H	2.27	0.43
1:r:108:GLN:NE2	1:r:218:HIS:HD2	2.17	0.43
1:s:108:GLN:NE2	1:s:218:HIS:HD2	2.17	0.43
1:t:265:ILE:HD12	1:y:45:PHE:CD2	2.53	0.43
1:u:145:THR:HG22	1:u:591:VAL:HB	2.00	0.43
1:w:108:GLN:NE2	1:w:218:HIS:HD2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:314:VAL:HG11	1:1:80:ILE:HG22	2.01	0.43
1:1:349:MET:HG2	1:2:375:PHE:CE2	2.53	0.43
1:2:92:HIS:HA	1:2:240:ASP:H	1.83	0.43
1:3:192:THR:HB	1:4:300:LEU:HG	2.01	0.43
1:4:531:LYS:HB2	1:4:553:PRO:HG3	2.00	0.43
1:5:145:THR:HG22	1:5:591:VAL:HB	2.00	0.43
1:5:375:PHE:CE2	1:7:349:MET:HG2	2.53	0.43
1:7:108:GLN:NE2	1:7:218:HIS:HD2	2.17	0.43
1:8:531:LYS:HB2	1:8:553:PRO:HG3	2.00	0.43
1:B:348:GLU:HB2	1:J:105:ASP:HA	2.00	0.43
1:B:396:LEU:C	1:B:398:GLN:H	2.27	0.43
1:B:531:LYS:HB2	1:B:553:PRO:HG3	2.00	0.43
1:C:145:THR:HG22	1:C:591:VAL:HB	2.00	0.43
1:C:314:VAL:HG11	1:b:80:ILE:HG22	2.00	0.43
1:C:375:PHE:CE2	1:M:349:MET:HG2	2.53	0.43
1:C:383:SER:HB3	1:C:398:GLN:HA	2.01	0.43
1:D:92:HIS:HA	1:D:240:ASP:H	1.83	0.43
1:D:101:PHE:HZ	1:D:366:ILE:HD11	1.84	0.43
1:E:192:THR:HB	1:F:300:LEU:HG	2.01	0.43
1:F:260:GLU:OE1	1:F:260:GLU:N	2.49	0.43
1:G:92:HIS:HA	1:G:240:ASP:H	1.83	0.43
1:H:108:GLN:NE2	1:H:218:HIS:HD2	2.17	0.43
1:I:530:ASP:OD1	1:I:531:LYS:N	2.48	0.43
1:J:530:ASP:OD1	1:J:531:LYS:N	2.48	0.43
1:K:300:LEU:HG	1:a:192:THR:HB	2.01	0.43
1:M:375:PHE:CE2	1:b:349:MET:HG2	2.53	0.43
1:O:101:PHE:HZ	1:O:366:ILE:HD11	1.84	0.43
1:O:375:PHE:CE2	1:n:349:MET:HG2	2.53	0.43
1:Q:129:LYS:HE3	1:Q:129:LYS:HB3	1.88	0.43
1:R:192:THR:H	1:R:556:GLN:NE2	2.06	0.43
1:T:348:GLU:HB2	1:d:105:ASP:HA	2.00	0.43
1:T:367:PRO:HB2	1:l:471:HIS:HD2	1.84	0.43
1:T:531:LYS:HB2	1:T:553:PRO:HG3	2.00	0.43
1:U:108:GLN:NE2	1:U:218:HIS:HD2	2.17	0.43
1:U:383:SER:HB3	1:U:398:GLN:HA	2.01	0.43
1:V:599:VAL:HG11	1:V:605:VAL:HG11	2.00	0.43
1:X:92:HIS:HA	1:X:240:ASP:H	1.83	0.43
1:X:108:GLN:NE2	1:X:218:HIS:HD2	2.17	0.43
1:Y:108:GLN:NE2	1:Y:218:HIS:HD2	2.17	0.43
1:Y:192:THR:H	1:Y:556:GLN:NE2	2.06	0.43
1:a:47:ASN:ND2	1:a:66:ARG:HH12	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:531:LYS:HB2	1:a:553:PRO:HG3	2.00	0.43
1:c:530:ASP:OD1	1:c:531:LYS:N	2.48	0.43
1:d:300:LEU:HG	1:l:192:THR:HB	2.01	0.43
1:d:383:SER:HB3	1:d:398:GLN:HA	2.01	0.43
1:f:80:ILE:HG22	1:g:314:VAL:HG11	2.00	0.43
1:f:530:ASP:OD1	1:f:531:LYS:N	2.48	0.43
1:h:101:PHE:HZ	1:h:366:ILE:HD11	1.84	0.43
1:i:47:ASN:ND2	1:i:66:ARG:HH12	2.17	0.43
1:i:129:LYS:HE3	1:i:129:LYS:HB3	1.88	0.43
1:j:265:ILE:HD12	1:l:45:PHE:CD2	2.53	0.43
1:o:108:GLN:NE2	1:o:218:HIS:HD2	2.17	0.43
1:o:488:GLN:HG3	1:o:489:GLU:H	1.82	0.43
1:p:531:LYS:HB2	1:p:553:PRO:HG3	2.00	0.43
1:s:383:SER:HB3	1:s:398:GLN:HA	2.01	0.43
1:t:599:VAL:HG11	1:t:605:VAL:HG11	2.01	0.43
1:v:108:GLN:NE2	1:v:218:HIS:HD2	2.17	0.43
1:w:192:THR:HB	1:y:300:LEU:HG	2.01	0.43
1:z:260:GLU:OE1	1:z:260:GLU:N	2.49	0.43
1:1:314:VAL:HG11	1:2:80:ILE:HG22	2.01	0.43
1:1:383:SER:HB3	1:1:398:GLN:HA	2.01	0.43
1:1:396:LEU:C	1:1:398:GLN:H	2.27	0.43
1:3:47:ASN:ND2	1:3:66:ARG:HH12	2.17	0.43
1:3:531:LYS:HB2	1:3:553:PRO:HG3	2.00	0.43
1:5:47:ASN:ND2	1:5:66:ARG:HH12	2.17	0.43
1:5:108:GLN:NE2	1:5:218:HIS:HD2	2.17	0.43
1:5:599:VAL:HG11	1:5:605:VAL:HG11	2.00	0.43
1:6:145:THR:HG22	1:6:591:VAL:HB	2.00	0.43
1:7:92:HIS:HA	1:7:240:ASP:H	1.83	0.43
1:A:80:ILE:HG22	1:I:314:VAL:HG11	2.01	0.42
1:B:260:GLU:OE1	1:B:260:GLU:N	2.49	0.42
1:B:314:VAL:HG11	1:J:80:ILE:HG22	2.01	0.42
1:B:349:MET:HG2	1:J:375:PHE:CE2	2.53	0.42
1:C:80:ILE:HG22	1:M:314:VAL:HG11	2.00	0.42
1:C:105:ASP:HA	1:M:348:GLU:HB2	2.00	0.42
1:G:599:VAL:HG11	1:G:605:VAL:HG11	2.01	0.42
1:H:599:VAL:HG11	1:H:605:VAL:HG11	2.00	0.42
1:I:47:ASN:ND2	1:I:66:ARG:HH12	2.17	0.42
1:I:92:HIS:HA	1:I:240:ASP:H	1.83	0.42
1:I:101:PHE:HZ	1:I:366:ILE:HD11	1.84	0.42
1:I:108:GLN:NE2	1:I:218:HIS:HD2	2.17	0.42
1:L:47:ASN:ND2	1:L:66:ARG:HH12	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:101:PHE:HZ	1:M:366:ILE:HD11	1.84	0.42
1:O:471:HIS:HD2	1:m:367:PRO:HB2	1.84	0.42
1:Q:47:ASN:ND2	1:Q:66:ARG:HH12	2.17	0.42
1:Q:92:HIS:CB	1:Q:239:TRP:CB	2.97	0.42
1:Q:101:PHE:HZ	1:Q:366:ILE:HD11	1.84	0.42
1:R:396:LEU:C	1:R:398:GLN:H	2.27	0.42
1:T:145:THR:HG22	1:T:591:VAL:HB	2.00	0.42
1:U:396:LEU:C	1:U:398:GLN:H	2.27	0.42
1:X:101:PHE:HZ	1:X:366:ILE:HD11	1.84	0.42
1:Y:145:THR:HG22	1:Y:591:VAL:HB	2.00	0.42
1:Y:396:LEU:C	1:Y:398:GLN:H	2.27	0.42
1:b:47:ASN:ND2	1:b:66:ARG:HH12	2.17	0.42
1:b:108:GLN:NE2	1:b:218:HIS:HD2	2.17	0.42
1:c:300:LEU:HG	1:o:192:THR:HB	2.01	0.42
1:e:383:SER:HB3	1:e:398:GLN:HA	2.01	0.42
1:f:47:ASN:ND2	1:f:66:ARG:HH12	2.17	0.42
1:f:349:MET:HG2	1:h:375:PHE:CE2	2.53	0.42
1:g:80:ILE:HG22	1:h:314:VAL:HG11	2.00	0.42
1:g:145:THR:HG22	1:g:591:VAL:HB	2.00	0.42
1:i:471:HIS:HD2	1:j:367:PRO:HB2	1.84	0.42
1:k:92:HIS:HA	1:k:240:ASP:H	1.83	0.42
1:k:101:PHE:HZ	1:k:366:ILE:HD11	1.84	0.42
1:m:145:THR:HG22	1:m:591:VAL:HB	2.00	0.42
1:m:260:GLU:OE1	1:m:260:GLU:N	2.49	0.42
1:m:531:LYS:HB2	1:m:553:PRO:HG3	2.00	0.42
1:n:108:GLN:NE2	1:n:218:HIS:HD2	2.17	0.42
1:s:396:LEU:C	1:s:398:GLN:H	2.27	0.42
1:u:108:GLN:NE2	1:u:218:HIS:HD2	2.17	0.42
1:u:300:LEU:HG	1:v:192:THR:HB	2.01	0.42
1:w:47:ASN:ND2	1:w:66:ARG:HH12	2.17	0.42
1:x:47:ASN:ND2	1:x:66:ARG:HH12	2.17	0.42
1:x:92:HIS:CB	1:x:239:TRP:CB	2.97	0.42
1:z:47:ASN:ND2	1:z:66:ARG:HH12	2.17	0.42
1:1:348:GLU:HB2	1:2:105:ASP:HA	2.00	0.42
1:3:101:PHE:HZ	1:3:366:ILE:HD11	1.84	0.42
1:5:80:ILE:HG22	1:7:314:VAL:HG11	2.00	0.42
1:6:101:PHE:HZ	1:6:366:ILE:HD11	1.84	0.42
1:6:300:LEU:HG	1:7:192:THR:HB	2.01	0.42
1:6:531:LYS:HB2	1:6:553:PRO:HG3	2.00	0.42
1:7:145:THR:HG22	1:7:591:VAL:HB	2.00	0.42
1:8:383:SER:HB3	1:8:398:GLN:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:530:ASP:OD1	1:8:531:LYS:N	2.48	0.42
1:B:599:VAL:HG11	1:B:605:VAL:HG11	2.00	0.42
1:E:47:ASN:ND2	1:E:66:ARG:HH12	2.17	0.42
1:F:92:HIS:CB	1:F:239:TRP:CB	2.97	0.42
1:F:145:THR:HG22	1:F:591:VAL:HB	2.00	0.42
1:H:80:ILE:HG22	1:Y:314:VAL:HG11	2.01	0.42
1:H:92:HIS:HA	1:H:240:ASP:H	1.83	0.42
1:H:192:THR:HB	1:Y:300:LEU:HG	2.01	0.42
1:H:396:LEU:C	1:H:398:GLN:H	2.27	0.42
1:J:47:ASN:ND2	1:J:66:ARG:HH12	2.17	0.42
1:K:92:HIS:HA	1:K:240:ASP:H	1.83	0.42
1:M:108:GLN:NE2	1:M:218:HIS:HD2	2.17	0.42
1:M:129:LYS:HE3	1:M:129:LYS:HB3	1.88	0.42
1:M:260:GLU:OE1	1:M:260:GLU:N	2.49	0.42
1:P:313:LYS:O	1:P:316:SER:OG	2.26	0.42
1:Q:108:GLN:NE2	1:Q:218:HIS:HD2	2.17	0.42
1:V:300:LEU:HG	1:e:192:THR:HB	2.01	0.42
1:W:101:PHE:HZ	1:W:366:ILE:HD11	1.84	0.42
1:W:300:LEU:HG	1:Y:192:THR:HB	2.01	0.42
1:W:396:LEU:C	1:W:398:GLN:H	2.27	0.42
1:Y:92:HIS:HA	1:Y:240:ASP:H	1.83	0.42
1:c:383:SER:HB3	1:c:398:GLN:HA	2.01	0.42
1:f:108:GLN:NE2	1:f:218:HIS:HD2	2.17	0.42
1:h:108:GLN:NE2	1:h:218:HIS:HD2	2.17	0.42
1:i:367:PRO:HB2	1:k:471:HIS:HD2	1.83	0.42
1:l:101:PHE:HZ	1:l:366:ILE:HD11	1.84	0.42
1:m:336:HIS:CE1	1:n:402:THR:CG2	3.02	0.42
1:n:383:SER:HB3	1:n:398:GLN:HA	2.01	0.42
1:p:599:VAL:HG11	1:p:605:VAL:HG11	2.00	0.42
1:q:148:GLN:HG3	1:q:276:THR:CG2	2.44	0.42
1:s:48:THR:H	1:s:63:HIS:HB2	1.83	0.42
1:t:92:HIS:HA	1:t:240:ASP:H	1.83	0.42
1:t:300:LEU:HG	1:u:192:THR:HB	2.01	0.42
1:u:47:ASN:ND2	1:u:66:ARG:HH12	2.17	0.42
1:u:92:HIS:HA	1:u:240:ASP:H	1.83	0.42
1:u:101:PHE:HZ	1:u:366:ILE:HD11	1.84	0.42
1:x:101:PHE:HZ	1:x:366:ILE:HD11	1.84	0.42
1:x:108:GLN:NE2	1:x:218:HIS:HD2	2.17	0.42
1:x:129:LYS:HE3	1:x:129:LYS:HB3	1.88	0.42
1:x:260:GLU:OE1	1:x:260:GLU:N	2.49	0.42
1:y:92:HIS:CB	1:y:239:TRP:CB	2.97	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:260:GLU:OE1	1:y:260:GLU:N	2.49	0.42
1:z:105:ASP:HA	1:2:348:GLU:HB2	2.00	0.42
1:z:108:GLN:NE2	1:z:218:HIS:HD2	2.17	0.42
1:1:531:LYS:HB2	1:1:553:PRO:HG3	2.00	0.42
1:2:47:ASN:ND2	1:2:66:ARG:HH12	2.17	0.42
1:2:530:ASP:OD1	1:2:531:LYS:N	2.48	0.42
1:3:599:VAL:HG11	1:3:605:VAL:HG11	2.00	0.42
1:7:396:LEU:C	1:7:398:GLN:H	2.27	0.42
1:8:260:GLU:OE1	1:8:260:GLU:N	2.49	0.42
1:C:101:PHE:HZ	1:C:366:ILE:HD11	1.84	0.42
1:C:367:PRO:HB2	1:M:471:HIS:HD2	1.84	0.42
1:C:402:THR:CG2	1:M:336:HIS:CE1	3.02	0.42
1:D:531:LYS:HB2	1:D:553:PRO:HG3	2.00	0.42
1:F:265:ILE:HD12	1:R:45:PHE:CD2	2.53	0.42
1:G:300:LEU:HG	1:I:192:THR:HB	2.01	0.42
1:J:348:GLU:HB2	1:L:105:ASP:HA	2.00	0.42
1:L:108:GLN:NE2	1:L:218:HIS:HD2	2.17	0.42
1:O:260:GLU:OE1	1:O:260:GLU:N	2.49	0.42
1:O:531:LYS:HB2	1:O:553:PRO:HG3	2.00	0.42
1:P:108:GLN:NE2	1:P:218:HIS:HD2	2.17	0.42
1:P:488:GLN:HG3	1:P:489:GLU:H	1.82	0.42
1:R:148:GLN:HG3	1:R:276:THR:CG2	2.44	0.42
1:R:530:ASP:OD1	1:R:531:LYS:N	2.48	0.42
1:T:336:HIS:CE1	1:d:402:THR:CG2	3.02	0.42
1:V:108:GLN:NE2	1:V:218:HIS:HD2	2.17	0.42
1:W:47:ASN:ND2	1:W:66:ARG:HH12	2.17	0.42
1:W:531:LYS:HB2	1:W:553:PRO:HG3	2.00	0.42
1:Y:101:PHE:HZ	1:Y:366:ILE:HD11	1.84	0.42
1:Z:260:GLU:OE1	1:Z:260:GLU:N	2.49	0.42
1:a:599:VAL:HG11	1:a:605:VAL:HG11	2.00	0.42
1:c:108:GLN:NE2	1:c:218:HIS:HD2	2.17	0.42
1:d:108:GLN:NE2	1:d:218:HIS:HD2	2.17	0.42
1:d:145:THR:HG22	1:d:591:VAL:HB	2.00	0.42
1:d:531:LYS:HB2	1:d:553:PRO:HG3	2.00	0.42
1:e:108:GLN:NE2	1:e:218:HIS:HD2	2.17	0.42
1:f:148:GLN:HG3	1:f:276:THR:CG2	2.44	0.42
1:g:367:PRO:HB2	1:h:471:HIS:HD2	1.84	0.42
1:i:145:THR:HG22	1:i:591:VAL:HB	2.00	0.42
1:j:108:GLN:NE2	1:j:218:HIS:HD2	2.17	0.42
1:k:265:ILE:HD12	1:w:45:PHE:CD2	2.54	0.42
1:l:260:GLU:OE1	1:l:260:GLU:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:396:LEU:C	1:m:398:GLN:H	2.27	0.42
1:n:145:THR:HG22	1:n:591:VAL:HB	2.00	0.42
1:o:47:ASN:ND2	1:o:66:ARG:HH12	2.17	0.42
1:q:45:PHE:CD2	1:y:265:ILE:HD12	2.53	0.42
1:q:530:ASP:OD1	1:q:531:LYS:N	2.48	0.42
1:t:47:ASN:ND2	1:t:66:ARG:HH12	2.17	0.42
1:u:530:ASP:OD1	1:u:531:LYS:N	2.48	0.42
1:y:145:THR:HG22	1:y:591:VAL:HB	2.00	0.42
1:1:260:GLU:OE1	1:1:260:GLU:N	2.49	0.42
1:4:92:HIS:HA	1:4:240:ASP:H	1.83	0.42
1:5:92:HIS:HA	1:5:240:ASP:H	1.83	0.42
1:5:192:THR:HB	1:7:300:LEU:HG	2.01	0.42
1:5:396:LEU:C	1:5:398:GLN:H	2.27	0.42
1:6:260:GLU:OE1	1:6:260:GLU:N	2.49	0.42
1:6:396:LEU:C	1:6:398:GLN:H	2.27	0.42
1:C:47:ASN:ND2	1:C:66:ARG:HH12	2.17	0.42
1:C:336:HIS:CE1	1:b:402:THR:CG2	3.02	0.42
1:D:265:ILE:HD12	1:E:45:PHE:CD2	2.54	0.42
1:D:471:HIS:HD2	1:N:367:PRO:HB2	1.84	0.42
1:E:92:HIS:HA	1:E:240:ASP:H	1.83	0.42
1:E:300:LEU:HG	1:Q:192:THR:HB	2.01	0.42
1:E:530:ASP:OD1	1:E:531:LYS:N	2.48	0.42
1:F:101:PHE:HZ	1:F:366:ILE:HD11	1.84	0.42
1:G:47:ASN:ND2	1:G:66:ARG:HH12	2.17	0.42
1:H:383:SER:HB3	1:H:398:GLN:HA	2.01	0.42
1:I:396:LEU:C	1:I:398:GLN:H	2.27	0.42
1:K:402:THR:CG2	1:8:336:HIS:CE1	3.02	0.42
1:M:599:VAL:HG11	1:M:605:VAL:HG11	2.00	0.42
1:N:145:THR:HG22	1:N:591:VAL:HB	2.00	0.42
1:N:383:SER:HB3	1:N:398:GLN:HA	2.01	0.42
1:Q:260:GLU:OE1	1:Q:260:GLU:N	2.49	0.42
1:R:47:ASN:ND2	1:R:66:ARG:HH12	2.17	0.42
1:T:396:LEU:C	1:T:398:GLN:H	2.27	0.42
1:U:48:THR:H	1:U:63:HIS:HB2	1.83	0.42
1:V:47:ASN:ND2	1:V:66:ARG:HH12	2.17	0.42
1:V:396:LEU:C	1:V:398:GLN:H	2.27	0.42
1:X:47:ASN:ND2	1:X:66:ARG:HH12	2.17	0.42
1:X:375:PHE:CE2	1:e:349:MET:HG2	2.54	0.42
1:Y:530:ASP:OD1	1:Y:531:LYS:N	2.48	0.42
1:Z:336:HIS:CE1	1:4:402:THR:CG2	3.02	0.42
1:Z:530:ASP:OD1	1:Z:531:LYS:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:101:PHE:HZ	1:a:366:ILE:HD11	1.84	0.42
1:b:148:GLN:HG3	1:b:276:THR:CG2	2.44	0.42
1:c:101:PHE:HZ	1:c:366:ILE:HD11	1.84	0.42
1:c:192:THR:HB	1:p:300:LEU:HG	2.01	0.42
1:d:396:LEU:C	1:d:398:GLN:H	2.27	0.42
1:g:47:ASN:ND2	1:g:66:ARG:HH12	2.17	0.42
1:g:101:PHE:HZ	1:g:366:ILE:HD11	1.84	0.42
1:h:129:LYS:HE3	1:h:129:LYS:HB3	1.88	0.42
1:h:599:VAL:HG11	1:h:605:VAL:HG11	2.00	0.42
1:i:101:PHE:HZ	1:i:366:ILE:HD11	1.84	0.42
1:i:383:SER:HB3	1:i:398:GLN:HA	2.01	0.42
1:o:88:ASP:HB3	1:o:100:PHE:CD1	2.55	0.42
1:o:396:LEU:C	1:o:398:GLN:H	2.27	0.42
1:o:471:HIS:HD2	1:p:367:PRO:HB2	1.84	0.42
1:p:396:LEU:C	1:p:398:GLN:H	2.27	0.42
1:q:47:ASN:ND2	1:q:66:ARG:HH12	2.17	0.42
1:t:192:THR:HB	1:v:300:LEU:HG	2.01	0.42
1:u:396:LEU:C	1:u:398:GLN:H	2.27	0.42
1:w:300:LEU:HG	1:x:192:THR:HB	2.01	0.42
1:1:530:ASP:OD1	1:1:531:LYS:N	2.48	0.42
1:1:599:VAL:HG11	1:1:605:VAL:HG11	2.00	0.42
1:5:383:SER:HB3	1:5:398:GLN:HA	2.01	0.42
1:6:47:ASN:ND2	1:6:66:ARG:HH12	2.17	0.42
1:8:192:THR:H	1:8:556:GLN:NE2	2.06	0.42
1:A:47:ASN:ND2	1:A:66:ARG:HH12	2.17	0.42
1:I:129:LYS:HE3	1:I:129:LYS:HB3	1.88	0.42
1:J:383:SER:HB3	1:J:398:GLN:HA	2.01	0.42
1:K:80:ILE:HG22	1:8:314:VAL:HG11	2.00	0.42
1:M:383:SER:HB3	1:M:398:GLN:HA	2.01	0.42
1:N:101:PHE:HZ	1:N:366:ILE:HD11	1.84	0.42
1:R:101:PHE:HZ	1:R:366:ILE:HD11	1.84	0.42
1:U:47:ASN:ND2	1:U:66:ARG:HH12	2.17	0.42
1:X:396:LEU:C	1:X:398:GLN:H	2.27	0.42
1:Z:314:VAL:HG11	1:4:80:ILE:HG22	2.00	0.42
1:a:471:HIS:HD2	1:8:367:PRO:HB2	1.83	0.42
1:c:92:HIS:HA	1:c:240:ASP:H	1.83	0.42
1:e:101:PHE:HZ	1:e:366:ILE:HD11	1.84	0.42
1:f:402:THR:CG2	1:g:336:HIS:CE1	3.02	0.42
1:h:260:GLU:OE1	1:h:260:GLU:N	2.49	0.42
1:j:349:MET:HG2	1:k:375:PHE:CE2	2.53	0.42
1:k:531:LYS:HB2	1:k:553:PRO:HG3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:531:LYS:HB2	1:l:553:PRO:HG3	2.00	0.42
1:n:396:LEU:C	1:n:398:GLN:H	2.27	0.42
1:n:531:LYS:HB2	1:n:553:PRO:HG3	2.00	0.42
1:p:96:LEU:H	1:p:96:LEU:CD2	2.03	0.42
1:p:108:GLN:NE2	1:p:218:HIS:HD2	2.17	0.42
1:r:360:GLN:H	1:r:509:SER:HG	1.68	0.42
1:t:101:PHE:HZ	1:t:366:ILE:HD11	1.84	0.42
1:u:265:ILE:HD12	1:5:45:PHE:CD2	2.53	0.42
1:v:47:ASN:ND2	1:v:66:ARG:HH12	2.17	0.42
1:x:314:VAL:HG11	1:y:80:ILE:HG22	2.00	0.42
1:y:101:PHE:HZ	1:y:366:ILE:HD11	1.84	0.42
1:1:129:LYS:HE3	1:1:129:LYS:HB3	1.88	0.42
1:4:108:GLN:NE2	1:4:218:HIS:HD2	2.17	0.42
1:5:300:LEU:HG	1:6:192:THR:HB	2.01	0.42
1:6:471:HIS:HD2	1:7:367:PRO:HB2	1.83	0.42
1:7:101:PHE:HZ	1:7:366:ILE:HD11	1.84	0.42
1:C:88:ASP:HB3	1:C:100:PHE:CD1	2.55	0.42
1:D:88:ASP:HB3	1:D:100:PHE:CD1	2.55	0.42
1:D:375:PHE:CE2	1:P:349:MET:HG2	2.53	0.42
1:D:383:SER:HB3	1:D:398:GLN:HA	2.01	0.42
1:E:80:ILE:HG22	1:F:314:VAL:HG11	2.00	0.42
1:E:105:ASP:HA	1:F:348:GLU:HB2	2.00	0.42
1:E:383:SER:HB3	1:E:398:GLN:HA	2.01	0.42
1:G:88:ASP:HB3	1:G:100:PHE:CD1	2.55	0.42
1:G:101:PHE:HZ	1:G:366:ILE:HD11	1.84	0.42
1:G:530:ASP:OD1	1:G:531:LYS:N	2.48	0.42
1:H:45:PHE:CD2	1:I:265:ILE:HD12	2.53	0.42
1:H:300:LEU:HG	1:W:192:THR:HB	2.01	0.42
1:H:367:PRO:HB2	1:Y:471:HIS:HD2	1.84	0.42
1:I:383:SER:HB3	1:I:398:GLN:HA	2.01	0.42
1:K:108:GLN:NE2	1:K:218:HIS:HD2	2.17	0.42
1:N:599:VAL:HG11	1:N:605:VAL:HG11	2.00	0.42
1:Q:396:LEU:C	1:Q:398:GLN:H	2.27	0.42
1:S:314:VAL:HG11	1:U:80:ILE:HG22	2.01	0.42
1:U:530:ASP:OD1	1:U:531:LYS:N	2.48	0.42
1:V:92:HIS:CB	1:V:239:TRP:CB	2.97	0.42
1:W:260:GLU:OE1	1:W:260:GLU:N	2.49	0.42
1:W:471:HIS:HD2	1:Y:367:PRO:HB2	1.83	0.42
1:X:88:ASP:HB3	1:X:100:PHE:CD1	2.55	0.42
1:X:383:SER:HB3	1:X:398:GLN:HA	2.01	0.42
1:Y:88:ASP:HB3	1:Y:100:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:88:ASP:HB3	1:Z:100:PHE:CD1	2.55	0.42
1:a:88:ASP:HB3	1:a:100:PHE:CD1	2.55	0.42
1:a:360:GLN:H	1:a:509:SER:HG	1.66	0.42
1:b:396:LEU:C	1:b:398:GLN:H	2.27	0.42
1:d:88:ASP:HB3	1:d:100:PHE:CD1	2.55	0.42
1:f:396:LEU:C	1:f:398:GLN:H	2.27	0.42
1:g:88:ASP:HB3	1:g:100:PHE:CD1	2.55	0.42
1:h:47:ASN:ND2	1:h:66:ARG:HH12	2.17	0.42
1:h:383:SER:HB3	1:h:398:GLN:HA	2.01	0.42
1:j:488:GLN:HG3	1:j:489:GLU:H	1.82	0.42
1:k:88:ASP:HB3	1:k:100:PHE:CD1	2.55	0.42
1:k:129:LYS:HE3	1:k:129:LYS:HB3	1.88	0.42
1:m:471:HIS:HD2	1:n:367:PRO:HB2	1.83	0.42
1:p:47:ASN:ND2	1:p:66:ARG:HH12	2.17	0.42
1:p:530:ASP:OD1	1:p:531:LYS:N	2.48	0.42
1:q:599:VAL:HG11	1:q:605:VAL:HG11	2.00	0.42
1:r:47:ASN:ND2	1:r:66:ARG:HH12	2.17	0.42
1:s:47:ASN:ND2	1:s:66:ARG:HH12	2.17	0.42
1:t:88:ASP:HB3	1:t:100:PHE:CD1	2.55	0.42
1:w:92:HIS:HA	1:w:240:ASP:H	1.83	0.42
1:w:105:ASP:HA	1:y:348:GLU:HB2	2.00	0.42
1:w:348:GLU:HB2	1:x:105:ASP:HA	2.00	0.42
1:w:375:PHE:CE2	1:y:349:MET:HG2	2.54	0.42
1:w:383:SER:HB3	1:w:398:GLN:HA	2.01	0.42
1:w:530:ASP:OD1	1:w:531:LYS:N	2.48	0.42
1:x:396:LEU:C	1:x:398:GLN:H	2.27	0.42
1:1:101:PHE:HZ	1:1:366:ILE:HD11	1.84	0.42
1:2:383:SER:HB3	1:2:398:GLN:HA	2.01	0.42
1:7:88:ASP:HB3	1:7:100:PHE:CD1	2.55	0.42
1:7:192:THR:H	1:7:556:GLN:NE2	2.06	0.42
1:8:88:ASP:HB3	1:8:100:PHE:CD1	2.55	0.42
1:B:300:LEU:HG	1:J:192:THR:HB	2.01	0.42
1:B:530:ASP:OD1	1:B:531:LYS:N	2.48	0.42
1:D:129:LYS:HE3	1:D:129:LYS:HB3	1.88	0.42
1:E:348:GLU:HB2	1:Q:105:ASP:HA	2.00	0.42
1:E:375:PHE:CE2	1:F:349:MET:HG2	2.54	0.42
1:F:80:ILE:HG22	1:Q:314:VAL:HG11	2.00	0.42
1:H:88:ASP:HB3	1:H:100:PHE:CD1	2.55	0.42
1:H:348:GLU:HB2	1:W:105:ASP:HA	2.00	0.42
1:H:530:ASP:OD1	1:H:531:LYS:N	2.48	0.42
1:M:47:ASN:ND2	1:M:66:ARG:HH12	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:88:ASP:HB3	1:O:100:PHE:CD1	2.55	0.42
1:O:383:SER:HB3	1:O:398:GLN:HA	2.01	0.42
1:P:530:ASP:OD1	1:P:531:LYS:N	2.48	0.42
1:R:108:GLN:NE2	1:R:218:HIS:HD2	2.17	0.42
1:S:47:ASN:ND2	1:S:66:ARG:HH12	2.17	0.42
1:T:80:ILE:HG22	1:l:314:VAL:HG11	2.00	0.42
1:X:367:PRO:HB2	1:e:471:HIS:HD2	1.85	0.42
1:Z:192:THR:H	1:Z:556:GLN:NE2	2.06	0.42
1:Z:300:LEU:HG	1:4:192:THR:HB	2.01	0.42
1:b:383:SER:HB3	1:b:398:GLN:HA	2.01	0.42
1:i:599:VAL:HG11	1:i:605:VAL:HG11	2.00	0.42
1:j:530:ASP:OD1	1:j:531:LYS:N	2.48	0.42
1:k:383:SER:HB3	1:k:398:GLN:HA	2.01	0.42
1:l:88:ASP:HB3	1:l:100:PHE:CD1	2.55	0.42
1:l:92:HIS:HA	1:l:240:ASP:H	1.83	0.42
1:m:129:LYS:HE3	1:m:129:LYS:HB3	1.88	0.42
1:n:88:ASP:HB3	1:n:100:PHE:CD1	2.55	0.42
1:o:383:SER:HB3	1:o:398:GLN:HA	2.01	0.42
1:p:92:HIS:CB	1:p:239:TRP:CB	2.97	0.42
1:q:101:PHE:HZ	1:q:366:ILE:HD11	1.84	0.42
1:q:300:LEU:HG	1:r:192:THR:HB	2.01	0.42
1:r:314:VAL:HG11	1:s:80:ILE:HG22	2.01	0.42
1:s:88:ASP:HB3	1:s:100:PHE:CD1	2.55	0.42
1:s:530:ASP:OD1	1:s:531:LYS:N	2.48	0.42
1:u:129:LYS:HE3	1:u:129:LYS:HB3	1.88	0.42
1:u:383:SER:HB3	1:u:398:GLN:HA	2.01	0.42
1:w:80:ILE:HG22	1:y:314:VAL:HG11	2.00	0.42
1:w:599:VAL:HG11	1:w:605:VAL:HG11	2.01	0.42
1:3:88:ASP:HB3	1:3:100:PHE:CD1	2.55	0.42
1:4:47:ASN:ND2	1:4:66:ARG:HH12	2.17	0.42
1:5:88:ASP:HB3	1:5:100:PHE:CD1	2.55	0.42
1:5:348:GLU:HB2	1:6:105:ASP:HA	2.00	0.42
1:7:530:ASP:OD1	1:7:531:LYS:N	2.48	0.42
1:A:300:LEU:HG	1:G:192:THR:HB	2.01	0.42
1:B:101:PHE:HZ	1:B:366:ILE:HD11	1.84	0.42
1:D:47:ASN:ND2	1:D:66:ARG:HH12	2.17	0.42
1:J:108:GLN:NE2	1:J:218:HIS:HD2	2.17	0.42
1:K:192:THR:HB	1:8:300:LEU:HG	2.01	0.42
1:K:383:SER:HB3	1:K:398:GLN:HA	2.01	0.42
1:L:88:ASP:HB3	1:L:100:PHE:CD1	2.55	0.42
1:N:530:ASP:OD1	1:N:531:LYS:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:92:HIS:HA	1:O:240:ASP:H	1.83	0.42
1:O:314:VAL:HG11	1:m:80:ILE:HG22	2.00	0.42
1:P:599:VAL:HG11	1:P:605:VAL:HG11	2.00	0.42
1:R:192:THR:HB	1:U:300:LEU:HG	2.01	0.42
1:R:599:VAL:HG11	1:R:605:VAL:HG11	2.00	0.42
1:S:88:ASP:HB3	1:S:100:PHE:CD1	2.55	0.42
1:T:129:LYS:HE3	1:T:129:LYS:HB3	1.88	0.42
1:U:88:ASP:HB3	1:U:100:PHE:CD1	2.55	0.42
1:U:101:PHE:HZ	1:U:366:ILE:HD11	1.84	0.42
1:V:530:ASP:OD1	1:V:531:LYS:N	2.48	0.42
1:Z:101:PHE:HZ	1:Z:366:ILE:HD11	1.84	0.42
1:Z:129:LYS:HB3	1:Z:129:LYS:HE3	1.88	0.42
1:Z:367:PRO:HB2	1:3:471:HIS:HD2	1.84	0.42
1:a:383:SER:HB3	1:a:398:GLN:HA	2.01	0.42
1:d:47:ASN:ND2	1:d:66:ARG:HH12	2.17	0.42
1:d:471:HIS:HD2	1:l:367:PRO:HB2	1.83	0.42
1:e:92:HIS:HA	1:e:240:ASP:H	1.83	0.42
1:f:383:SER:HB3	1:f:398:GLN:HA	2.01	0.42
1:f:599:VAL:HG11	1:f:605:VAL:HG11	2.00	0.42
1:g:530:ASP:OD1	1:g:531:LYS:N	2.48	0.42
1:l:383:SER:HB3	1:l:398:GLN:HA	2.01	0.42
1:m:530:ASP:OD1	1:m:531:LYS:N	2.48	0.42
1:p:101:PHE:HZ	1:p:366:ILE:HD11	1.84	0.42
1:q:108:GLN:NE2	1:q:218:HIS:HD2	2.17	0.42
1:r:88:ASP:HB3	1:r:100:PHE:CD1	2.55	0.42
1:z:88:ASP:HB3	1:z:100:PHE:CD1	2.55	0.42
1:4:383:SER:HB3	1:4:398:GLN:HA	2.01	0.42
1:5:367:PRO:HB2	1:7:471:HIS:HD2	1.84	0.42
1:5:530:ASP:OD1	1:5:531:LYS:N	2.48	0.42
1:8:101:PHE:HZ	1:8:366:ILE:HD11	1.84	0.42
1:D:300:LEU:HG	1:N:192:THR:HB	2.01	0.42
1:E:145:THR:HG22	1:E:591:VAL:HB	2.00	0.42
1:E:599:VAL:HG11	1:E:605:VAL:HG11	2.01	0.42
1:F:383:SER:HB3	1:F:398:GLN:HA	2.01	0.42
1:K:313:LYS:O	1:K:316:SER:OG	2.26	0.42
1:K:336:HIS:CE1	1:a:402:THR:CG2	3.02	0.42
1:O:367:PRO:HB2	1:n:471:HIS:HD2	1.84	0.42
1:O:396:LEU:C	1:O:398:GLN:H	2.27	0.42
1:Q:599:VAL:HG11	1:Q:605:VAL:HG11	2.00	0.42
1:R:300:LEU:HG	1:S:192:THR:HB	2.01	0.42
1:S:101:PHE:HZ	1:S:366:ILE:HD11	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:192:THR:H	1:S:556:GLN:NE2	2.06	0.42
1:T:471:HIS:HD2	1:d:367:PRO:HB2	1.83	0.42
1:b:599:VAL:HG11	1:b:605:VAL:HG11	2.00	0.42
1:j:599:VAL:HG11	1:j:605:VAL:HG11	2.00	0.42
1:n:47:ASN:ND2	1:n:66:ARG:HH12	2.17	0.42
1:o:300:LEU:HG	1:p:192:THR:HB	2.01	0.42
1:q:192:THR:HB	1:s:300:LEU:HG	2.01	0.42
1:s:101:PHE:HZ	1:s:366:ILE:HD11	1.84	0.42
1:t:530:ASP:OD1	1:t:531:LYS:N	2.48	0.42
1:u:599:VAL:HG11	1:u:605:VAL:HG11	2.00	0.42
1:w:145:THR:HG22	1:w:591:VAL:HB	2.00	0.42
1:x:599:VAL:HG11	1:x:605:VAL:HG11	2.00	0.42
1:y:383:SER:HB3	1:y:398:GLN:HA	2.01	0.42
1:1:300:LEU:HG	1:2:192:THR:HB	2.01	0.42
1:2:599:VAL:HG11	1:2:605:VAL:HG11	2.00	0.42
1:3:383:SER:HB3	1:3:398:GLN:HA	2.01	0.42
1:3:402:THR:CG2	1:4:336:HIS:CE1	3.02	0.42
1:B:47:ASN:ND2	1:B:66:ARG:HH12	2.17	0.42
1:B:88:ASP:HB3	1:B:100:PHE:CD1	2.55	0.42
1:D:92:HIS:CB	1:D:239:TRP:CB	2.97	0.42
1:E:367:PRO:HB2	1:F:471:HIS:HD2	1.84	0.42
1:J:599:VAL:HG11	1:J:605:VAL:HG11	2.00	0.42
1:K:47:ASN:ND2	1:K:66:ARG:HH12	2.17	0.42
1:S:599:VAL:HG11	1:S:605:VAL:HG11	2.00	0.42
1:T:530:ASP:OD1	1:T:531:LYS:N	2.48	0.42
1:a:396:LEU:C	1:a:398:GLN:H	2.27	0.42
1:c:348:GLU:HB2	1:o:105:ASP:HA	2.00	0.42
1:d:336:HIS:HE1	1:l:402:THR:HG21	1.78	0.42
1:d:530:ASP:OD1	1:d:531:LYS:N	2.48	0.42
1:f:260:GLU:OE1	1:f:260:GLU:N	2.49	0.42
1:i:192:THR:HB	1:k:300:LEU:HG	2.01	0.42
1:j:88:ASP:HB3	1:j:100:PHE:CD1	2.55	0.42
1:k:47:ASN:ND2	1:k:66:ARG:HH12	2.17	0.42
1:l:396:LEU:C	1:l:398:GLN:H	2.27	0.42
1:2:108:GLN:NE2	1:2:218:HIS:HD2	2.17	0.42
1:6:88:ASP:HB3	1:6:100:PHE:CD1	2.55	0.42
1:B:129:LYS:HE3	1:B:129:LYS:HB3	1.88	0.41
1:C:192:THR:HB	1:M:300:LEU:HG	2.01	0.41
1:C:237:LEU:HD13	1:C:238:THR:H	1.85	0.41
1:C:530:ASP:OD1	1:C:531:LYS:N	2.48	0.41
1:C:599:VAL:HG11	1:C:605:VAL:HG11	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:88:ASP:HB3	1:E:100:PHE:CD1	2.55	0.41
1:I:599:VAL:HG11	1:I:605:VAL:HG11	2.00	0.41
1:J:145:THR:HG22	1:J:591:VAL:HB	2.00	0.41
1:P:383:SER:HB3	1:P:398:GLN:HA	2.01	0.41
1:T:47:ASN:ND2	1:T:66:ARG:HH12	2.17	0.41
1:W:88:ASP:HB3	1:W:100:PHE:CD1	2.55	0.41
1:X:237:LEU:HD13	1:X:238:THR:H	1.85	0.41
1:Y:237:LEU:HD13	1:Y:238:THR:H	1.86	0.41
1:Z:99:GLU:O	1:Z:103:TYR:HD2	2.03	0.41
1:b:99:GLU:O	1:b:103:TYR:HD2	2.03	0.41
1:b:260:GLU:OE1	1:b:260:GLU:N	2.49	0.41
1:c:88:ASP:HB3	1:c:100:PHE:CD1	2.55	0.41
1:c:129:LYS:HB3	1:c:129:LYS:HE3	1.88	0.41
1:e:88:ASP:HB3	1:e:100:PHE:CD1	2.55	0.41
1:g:237:LEU:HD13	1:g:238:THR:H	1.85	0.41
1:i:530:ASP:OD1	1:i:531:LYS:N	2.48	0.41
1:j:383:SER:HB3	1:j:398:GLN:HA	2.01	0.41
1:k:92:HIS:CB	1:k:239:TRP:CB	2.97	0.41
1:l:265:ILE:HD12	1:n:45:PHE:CD2	2.53	0.41
1:m:47:ASN:ND2	1:m:66:ARG:HH12	2.17	0.41
1:o:237:LEU:HD13	1:o:238:THR:H	1.86	0.41
1:q:88:ASP:HB3	1:q:100:PHE:CD1	2.55	0.41
1:q:383:SER:HB3	1:q:398:GLN:HA	2.01	0.41
1:r:101:PHE:HZ	1:r:366:ILE:HD11	1.84	0.41
1:w:88:ASP:HB3	1:w:100:PHE:CD1	2.55	0.41
1:z:101:PHE:HZ	1:z:366:ILE:HD11	1.84	0.41
1:1:47:ASN:ND2	1:1:66:ARG:HH12	2.17	0.41
1:1:88:ASP:HB3	1:1:100:PHE:CD1	2.55	0.41
1:2:101:PHE:HZ	1:2:366:ILE:HD11	1.84	0.41
1:3:396:LEU:C	1:3:398:GLN:H	2.27	0.41
1:4:397:GLN:O	1:4:401:SER:HB3	2.20	0.41
1:6:383:SER:HB3	1:6:398:GLN:HA	2.01	0.41
1:8:99:GLU:O	1:8:103:TYR:HD2	2.03	0.41
1:A:88:ASP:HB3	1:A:100:PHE:CD1	2.55	0.41
1:A:101:PHE:HZ	1:A:366:ILE:HD11	1.84	0.41
1:C:300:LEU:HG	1:b:192:THR:HB	2.01	0.41
1:D:367:PRO:HB2	1:P:471:HIS:HD2	1.83	0.41
1:J:92:HIS:CB	1:J:239:TRP:CB	2.97	0.41
1:J:101:PHE:HZ	1:J:366:ILE:HD11	1.84	0.41
1:M:397:GLN:O	1:M:401:SER:HB3	2.21	0.41
1:N:636:LEU:HD23	1:N:636:LEU:C	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:47:ASN:ND2	1:O:66:ARG:HH12	2.17	0.41
1:O:397:GLN:O	1:O:401:SER:HB3	2.21	0.41
1:P:88:ASP:HB3	1:P:100:PHE:CD1	2.55	0.41
1:R:88:ASP:HB3	1:R:100:PHE:CD1	2.55	0.41
1:R:383:SER:HB3	1:R:398:GLN:HA	2.01	0.41
1:R:459:TRP:CD1	1:R:636:LEU:HD13	2.56	0.41
1:S:360:GLN:H	1:S:509:SER:HG	1.68	0.41
1:V:101:PHE:HZ	1:V:366:ILE:HD11	1.84	0.41
1:V:375:PHE:CE2	1:X:349:MET:HG2	2.55	0.41
1:Y:397:GLN:O	1:Y:401:SER:HB3	2.21	0.41
1:Z:47:ASN:ND2	1:Z:66:ARG:HH12	2.17	0.41
1:a:459:TRP:CD1	1:a:636:LEU:HD13	2.56	0.41
1:c:459:TRP:CD1	1:c:636:LEU:HD13	2.56	0.41
1:d:459:TRP:CD1	1:d:636:LEU:HD13	2.56	0.41
1:e:47:ASN:ND2	1:e:66:ARG:HH12	2.17	0.41
1:e:459:TRP:CD1	1:e:636:LEU:HD13	2.56	0.41
1:f:99:GLU:O	1:f:103:TYR:HD2	2.03	0.41
1:f:192:THR:HB	1:g:300:LEU:HG	2.01	0.41
1:f:237:LEU:HD13	1:f:238:THR:H	1.86	0.41
1:f:397:GLN:O	1:f:401:SER:HB3	2.21	0.41
1:g:192:THR:HB	1:h:300:LEU:HG	2.01	0.41
1:g:260:GLU:OE1	1:g:260:GLU:N	2.49	0.41
1:g:599:VAL:HG11	1:g:605:VAL:HG11	2.00	0.41
1:h:397:GLN:O	1:h:401:SER:HB3	2.21	0.41
1:l:237:LEU:HD13	1:l:238:THR:H	1.86	0.41
1:l:397:GLN:O	1:l:401:SER:HB3	2.21	0.41
1:n:99:GLU:O	1:n:103:TYR:HD2	2.03	0.41
1:n:530:ASP:OD1	1:n:531:LYS:N	2.48	0.41
1:q:459:TRP:CD1	1:q:636:LEU:HD13	2.56	0.41
1:r:599:VAL:HG11	1:r:605:VAL:HG11	2.00	0.41
1:u:99:GLU:O	1:u:103:TYR:HD2	2.03	0.41
1:v:88:ASP:HB3	1:v:100:PHE:CD1	2.55	0.41
1:w:367:PRO:HB2	1:y:471:HIS:HD2	1.84	0.41
1:x:88:ASP:HB3	1:x:100:PHE:CD1	2.55	0.41
1:y:90:LYS:NZ	1:y:244:ASP:OD2	2.32	0.41
1:z:300:LEU:HG	1:1:192:THR:HB	2.01	0.41
1:z:336:HIS:HE1	1:1:402:THR:HG21	1.78	0.41
1:2:145:THR:HG22	1:2:591:VAL:HB	2.00	0.41
1:3:459:TRP:CD1	1:3:636:LEU:HD13	2.56	0.41
1:4:101:PHE:HZ	1:4:366:ILE:HD11	1.84	0.41
1:4:459:TRP:CD1	1:4:636:LEU:HD13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:90:LYS:NZ	1:7:244:ASP:OD2	2.32	0.41
1:7:237:LEU:HD13	1:7:238:THR:H	1.86	0.41
1:7:397:GLN:O	1:7:401:SER:HB3	2.21	0.41
1:B:96:LEU:H	1:B:96:LEU:CD2	2.03	0.41
1:D:237:LEU:HD13	1:D:238:THR:H	1.86	0.41
1:E:477:ILE:HB	1:Q:366:ILE:CG1	2.50	0.41
1:G:108:GLN:NE2	1:G:218:HIS:HD2	2.17	0.41
1:G:459:TRP:CD1	1:G:636:LEU:HD13	2.56	0.41
1:H:101:PHE:HZ	1:H:366:ILE:HD11	1.84	0.41
1:I:99:GLU:O	1:I:103:TYR:HD2	2.03	0.41
1:J:88:ASP:HB3	1:J:100:PHE:CD1	2.55	0.41
1:K:101:PHE:HZ	1:K:366:ILE:HD11	1.84	0.41
1:K:397:GLN:O	1:K:401:SER:HB3	2.21	0.41
1:K:459:TRP:CD1	1:K:636:LEU:HD13	2.56	0.41
1:L:101:PHE:HZ	1:L:366:ILE:HD11	1.84	0.41
1:M:88:ASP:HB3	1:M:100:PHE:CD1	2.55	0.41
1:O:237:LEU:HD13	1:O:238:THR:H	1.86	0.41
1:O:265:ILE:HD12	1:d:45:PHE:CD2	2.53	0.41
1:O:336:HIS:CE1	1:m:402:THR:CG2	3.02	0.41
1:Q:88:ASP:HB3	1:Q:100:PHE:CD1	2.55	0.41
1:Q:383:SER:HB3	1:Q:398:GLN:HA	2.01	0.41
1:Q:459:TRP:CD1	1:Q:636:LEU:HD13	2.56	0.41
1:S:383:SER:HB3	1:S:398:GLN:HA	2.01	0.41
1:T:300:LEU:HG	1:d:192:THR:HB	2.01	0.41
1:W:99:GLU:O	1:W:103:TYR:HD2	2.03	0.41
1:W:383:SER:HB3	1:W:398:GLN:HA	2.01	0.41
1:X:260:GLU:OE1	1:X:260:GLU:N	2.49	0.41
1:X:402:THR:CG2	1:e:336:HIS:CE1	3.02	0.41
1:X:636:LEU:C	1:X:636:LEU:HD23	2.46	0.41
1:b:237:LEU:HD13	1:b:238:THR:H	1.86	0.41
1:b:397:GLN:O	1:b:401:SER:HB3	2.21	0.41
1:c:47:ASN:ND2	1:c:66:ARG:HH12	2.17	0.41
1:c:636:LEU:C	1:c:636:LEU:HD23	2.46	0.41
1:d:99:GLU:O	1:d:103:TYR:HD2	2.03	0.41
1:d:101:PHE:HZ	1:d:366:ILE:HD11	1.84	0.41
1:e:636:LEU:HD23	1:e:636:LEU:C	2.46	0.41
1:f:88:ASP:HB3	1:f:100:PHE:CD1	2.55	0.41
1:h:88:ASP:HB3	1:h:100:PHE:CD1	2.55	0.41
1:i:636:LEU:HD23	1:i:636:LEU:C	2.46	0.41
1:k:237:LEU:HD13	1:k:238:THR:H	1.86	0.41
1:n:459:TRP:CD1	1:n:636:LEU:HD13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:367:PRO:HB2	1:v:471:HIS:HD2	1.84	0.41
1:t:459:TRP:CD1	1:t:636:LEU:HD13	2.56	0.41
1:x:459:TRP:CD1	1:x:636:LEU:HD13	2.56	0.41
1:y:636:LEU:HD23	1:y:636:LEU:C	2.46	0.41
1:2:88:ASP:HB3	1:2:100:PHE:CD1	2.55	0.41
1:2:92:HIS:CB	1:2:239:TRP:CB	2.97	0.41
1:2:99:GLU:O	1:2:103:TYR:HD2	2.04	0.41
1:5:101:PHE:HZ	1:5:366:ILE:HD11	1.84	0.41
1:6:99:GLU:O	1:6:103:TYR:HD2	2.03	0.41
1:8:47:ASN:ND2	1:8:66:ARG:HH12	2.17	0.41
1:A:471:HIS:HD2	1:G:367:PRO:HB2	1.84	0.41
1:A:636:LEU:C	1:A:636:LEU:HD23	2.46	0.41
1:B:192:THR:HB	1:L:300:LEU:HG	2.01	0.41
1:C:260:GLU:OE1	1:C:260:GLU:N	2.49	0.41
1:C:397:GLN:O	1:C:401:SER:HB3	2.21	0.41
1:C:636:LEU:C	1:C:636:LEU:HD23	2.46	0.41
1:F:88:ASP:HB3	1:F:100:PHE:CD1	2.55	0.41
1:F:237:LEU:HD13	1:F:238:THR:H	1.86	0.41
1:F:636:LEU:HD23	1:F:636:LEU:C	2.46	0.41
1:I:237:LEU:HD13	1:I:238:THR:H	1.86	0.41
1:J:99:GLU:O	1:J:103:TYR:HD2	2.04	0.41
1:J:314:VAL:HG11	1:L:80:ILE:HG22	2.01	0.41
1:J:397:GLN:O	1:J:401:SER:HB3	2.21	0.41
1:K:366:ILE:CG1	1:8:477:ILE:HB	2.51	0.41
1:L:614:GLY:N	1:L:620:LYS:HB2	2.36	0.41
1:N:459:TRP:CD1	1:N:636:LEU:HD13	2.56	0.41
1:O:636:LEU:HD23	1:O:636:LEU:C	2.46	0.41
1:P:636:LEU:C	1:P:636:LEU:HD23	2.46	0.41
1:S:614:GLY:N	1:S:620:LYS:HB2	2.36	0.41
1:T:101:PHE:HZ	1:T:366:ILE:HD11	1.84	0.41
1:T:402:THR:CG2	1:l:336:HIS:CE1	3.02	0.41
1:T:614:GLY:CA	1:T:620:LYS:H	2.34	0.41
1:W:237:LEU:HD13	1:W:238:THR:H	1.85	0.41
1:X:614:GLY:N	1:X:620:LYS:HB2	2.36	0.41
1:Y:636:LEU:HD23	1:Y:636:LEU:C	2.46	0.41
1:e:129:LYS:HB3	1:e:129:LYS:HE3	1.88	0.41
1:g:397:GLN:O	1:g:401:SER:HB3	2.21	0.41
1:g:636:LEU:HD23	1:g:636:LEU:C	2.46	0.41
1:i:459:TRP:CD1	1:i:636:LEU:HD13	2.56	0.41
1:j:471:HIS:HD2	1:k:367:PRO:HB2	1.83	0.41
1:l:47:ASN:ND2	1:l:66:ARG:HH12	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:99:GLU:O	1:l:103:TYR:HD2	2.03	0.41
1:m:300:LEU:HG	1:n:192:THR:HB	2.01	0.41
1:n:101:PHE:HZ	1:n:366:ILE:HD11	1.84	0.41
1:o:459:TRP:CD1	1:o:636:LEU:HD13	2.56	0.41
1:o:636:LEU:HD23	1:o:636:LEU:C	2.46	0.41
1:r:99:GLU:O	1:r:103:TYR:HD2	2.04	0.41
1:r:383:SER:HB3	1:r:398:GLN:HA	2.01	0.41
1:r:614:GLY:N	1:r:620:LYS:HB2	2.36	0.41
1:t:99:GLU:O	1:t:103:TYR:HD2	2.04	0.41
1:t:108:GLN:NE2	1:t:218:HIS:HD2	2.17	0.41
1:u:237:LEU:HD13	1:u:238:THR:H	1.86	0.41
1:v:101:PHE:HZ	1:v:366:ILE:HD11	1.84	0.41
1:w:101:PHE:HZ	1:w:366:ILE:HD11	1.84	0.41
1:w:477:ILE:HB	1:x:366:ILE:CG1	2.50	0.41
1:x:383:SER:HB3	1:x:398:GLN:HA	2.01	0.41
1:y:237:LEU:HD13	1:y:238:THR:H	1.86	0.41
1:z:80:ILE:HG22	1:2:314:VAL:HG11	2.01	0.41
1:z:237:LEU:HD13	1:z:238:THR:H	1.85	0.41
1:z:614:GLY:N	1:z:620:LYS:HB2	2.36	0.41
1:4:88:ASP:HB3	1:4:100:PHE:CD1	2.55	0.41
1:6:237:LEU:HD13	1:6:238:THR:H	1.86	0.41
1:7:47:ASN:ND2	1:7:66:ARG:HH12	2.17	0.41
1:8:129:LYS:HB3	1:8:129:LYS:HE3	1.88	0.41
1:D:614:GLY:N	1:D:620:LYS:HB2	2.36	0.41
1:E:237:LEU:HD13	1:E:238:THR:H	1.85	0.41
1:F:397:GLN:O	1:F:401:SER:HB3	2.21	0.41
1:G:99:GLU:O	1:G:103:TYR:HD2	2.04	0.41
1:I:397:GLN:O	1:I:401:SER:HB3	2.21	0.41
1:K:88:ASP:HB3	1:K:100:PHE:CD1	2.55	0.41
1:K:237:LEU:HD13	1:K:238:THR:H	1.85	0.41
1:L:237:LEU:HD13	1:L:238:THR:H	1.85	0.41
1:M:636:LEU:HD23	1:M:636:LEU:C	2.46	0.41
1:O:99:GLU:O	1:O:103:TYR:HD2	2.04	0.41
1:O:402:THR:HG21	1:n:336:HIS:HE1	1.78	0.41
1:P:237:LEU:HD13	1:P:238:THR:H	1.85	0.41
1:R:260:GLU:OE1	1:R:260:GLU:N	2.49	0.41
1:R:397:GLN:O	1:R:401:SER:HB3	2.21	0.41
1:S:99:GLU:O	1:S:103:TYR:HD2	2.04	0.41
1:T:237:LEU:HD13	1:T:238:THR:H	1.85	0.41
1:X:459:TRP:CD1	1:X:636:LEU:HD13	2.56	0.41
1:Z:477:ILE:HB	1:4:366:ILE:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:614:GLY:N	1:Z:620:LYS:HB2	2.36	0.41
1:a:397:GLN:O	1:a:401:SER:HB3	2.21	0.41
1:b:88:ASP:HB3	1:b:100:PHE:CD1	2.55	0.41
1:b:459:TRP:CD1	1:b:636:LEU:HD13	2.56	0.41
1:c:336:HIS:CE1	1:o:402:THR:CG2	3.03	0.41
1:c:477:ILE:HB	1:o:366:ILE:CG1	2.51	0.41
1:d:397:GLN:O	1:d:401:SER:HB3	2.21	0.41
1:f:459:TRP:CD1	1:f:636:LEU:HD13	2.56	0.41
1:g:96:LEU:N	1:g:96:LEU:CD2	2.73	0.41
1:j:101:PHE:HZ	1:j:366:ILE:HD11	1.84	0.41
1:j:636:LEU:HD23	1:j:636:LEU:C	2.46	0.41
1:k:459:TRP:CD1	1:k:636:LEU:HD13	2.56	0.41
1:k:614:GLY:N	1:k:620:LYS:HB2	2.36	0.41
1:l:636:LEU:HD23	1:l:636:LEU:C	2.46	0.41
1:m:237:LEU:HD13	1:m:238:THR:H	1.85	0.41
1:m:614:GLY:CA	1:m:620:LYS:H	2.34	0.41
1:n:397:GLN:O	1:n:401:SER:HB3	2.21	0.41
1:n:636:LEU:C	1:n:636:LEU:HD23	2.46	0.41
1:o:260:GLU:OE1	1:o:260:GLU:N	2.49	0.41
1:o:614:GLY:N	1:o:620:LYS:HB2	2.36	0.41
1:p:237:LEU:HD13	1:p:238:THR:H	1.85	0.41
1:q:397:GLN:O	1:q:401:SER:HB3	2.21	0.41
1:s:99:GLU:O	1:s:103:TYR:HD2	2.04	0.41
1:t:396:LEU:C	1:t:398:GLN:H	2.27	0.41
1:u:397:GLN:O	1:u:401:SER:HB3	2.21	0.41
1:v:636:LEU:C	1:v:636:LEU:HD23	2.46	0.41
1:x:636:LEU:HD23	1:x:636:LEU:C	2.46	0.41
1:y:47:ASN:ND2	1:y:66:ARG:HH12	2.17	0.41
1:y:88:ASP:HB3	1:y:100:PHE:CD1	2.55	0.41
1:y:397:GLN:O	1:y:401:SER:HB3	2.21	0.41
1:z:383:SER:HB3	1:z:398:GLN:HA	2.01	0.41
1:2:397:GLN:O	1:2:401:SER:HB3	2.21	0.41
1:5:99:GLU:O	1:5:103:TYR:HD2	2.04	0.41
1:5:397:GLN:O	1:5:401:SER:HB3	2.21	0.41
1:7:636:LEU:HD23	1:7:636:LEU:C	2.46	0.41
1:8:614:GLY:N	1:8:620:LYS:HB2	2.36	0.41
1:A:99:GLU:O	1:A:103:TYR:HD2	2.03	0.41
1:A:336:HIS:CE1	1:G:402:THR:CG2	3.02	0.41
1:B:397:GLN:O	1:B:401:SER:HB3	2.21	0.41
1:B:402:THR:HG21	1:L:336:HIS:HE1	1.78	0.41
1:B:477:ILE:HB	1:J:366:ILE:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:636:LEU:HD23	1:B:636:LEU:C	2.46	0.41
1:D:366:ILE:CG1	1:P:477:ILE:HB	2.51	0.41
1:D:459:TRP:CD1	1:D:636:LEU:HD13	2.56	0.41
1:E:101:PHE:HZ	1:E:366:ILE:HD11	1.84	0.41
1:E:614:GLY:N	1:E:620:LYS:HB2	2.36	0.41
1:F:47:ASN:ND2	1:F:66:ARG:HH12	2.17	0.41
1:F:90:LYS:NZ	1:F:244:ASP:OD2	2.32	0.41
1:G:396:LEU:C	1:G:398:GLN:H	2.27	0.41
1:H:397:GLN:O	1:H:401:SER:HB3	2.21	0.41
1:I:88:ASP:HB3	1:I:100:PHE:CD1	2.55	0.41
1:K:99:GLU:O	1:K:103:TYR:HD2	2.04	0.41
1:K:477:ILE:HB	1:a:366:ILE:CG1	2.51	0.41
1:L:383:SER:HB3	1:L:398:GLN:HA	2.01	0.41
1:L:636:LEU:HD23	1:L:636:LEU:C	2.46	0.41
1:N:222:ILE:HG12	1:N:370:LEU:HD22	2.03	0.41
1:P:101:PHE:HZ	1:P:366:ILE:HD11	1.84	0.41
1:Q:636:LEU:HD23	1:Q:636:LEU:C	2.46	0.41
1:S:477:ILE:HB	1:U:366:ILE:CG1	2.51	0.41
1:S:614:GLY:CA	1:S:620:LYS:H	2.34	0.41
1:U:614:GLY:N	1:U:620:LYS:HB2	2.36	0.41
1:V:237:LEU:HD13	1:V:238:THR:H	1.85	0.41
1:V:459:TRP:CD1	1:V:636:LEU:HD13	2.56	0.41
1:X:99:GLU:O	1:X:103:TYR:HD2	2.03	0.41
1:X:105:ASP:HA	1:e:348:GLU:HB2	2.00	0.41
1:X:222:ILE:HG12	1:X:370:LEU:HD22	2.03	0.41
1:Y:47:ASN:ND2	1:Y:66:ARG:HH12	2.17	0.41
1:Z:366:ILE:CG1	1:3:477:ILE:HB	2.51	0.41
1:Z:614:GLY:CA	1:Z:620:LYS:H	2.34	0.41
1:a:477:ILE:HB	1:8:366:ILE:CG1	2.51	0.41
1:a:636:LEU:HD23	1:a:636:LEU:C	2.46	0.41
1:c:614:GLY:N	1:c:620:LYS:HB2	2.36	0.41
1:d:636:LEU:C	1:d:636:LEU:HD23	2.46	0.41
1:g:614:GLY:N	1:g:620:LYS:HB2	2.36	0.41
1:h:636:LEU:HD23	1:h:636:LEU:C	2.46	0.41
1:i:222:ILE:HG12	1:i:370:LEU:HD22	2.03	0.41
1:j:237:LEU:HD13	1:j:238:THR:H	1.86	0.41
1:j:477:ILE:HB	1:k:366:ILE:CG1	2.51	0.41
1:k:260:GLU:OE1	1:k:260:GLU:N	2.49	0.41
1:n:614:GLY:N	1:n:620:LYS:HB2	2.36	0.41
1:o:99:GLU:O	1:o:103:TYR:HD2	2.03	0.41
1:o:222:ILE:HG12	1:o:370:LEU:HD22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:459:TRP:CD1	1:p:636:LEU:HD13	2.56	0.41
1:r:614:GLY:CA	1:r:620:LYS:H	2.34	0.41
1:s:614:GLY:N	1:s:620:LYS:HB2	2.36	0.41
1:v:459:TRP:CD1	1:v:636:LEU:HD13	2.56	0.41
1:w:222:ILE:HG12	1:w:370:LEU:HD22	2.03	0.41
1:w:237:LEU:HD13	1:w:238:THR:H	1.85	0.41
1:w:614:GLY:N	1:w:620:LYS:HB2	2.36	0.41
1:y:99:GLU:O	1:y:103:TYR:HD2	2.04	0.41
1:z:477:ILE:HB	1:1:366:ILE:CG1	2.51	0.41
1:z:636:LEU:HD23	1:z:636:LEU:C	2.46	0.41
1:1:397:GLN:O	1:1:401:SER:HB3	2.21	0.41
1:1:477:ILE:HB	1:2:366:ILE:CG1	2.51	0.41
1:1:636:LEU:HD23	1:1:636:LEU:C	2.46	0.41
1:3:288:LEU:HD23	1:3:288:LEU:HA	1.91	0.41
1:3:366:ILE:CG1	1:4:477:ILE:HB	2.51	0.41
1:3:397:GLN:O	1:3:401:SER:HB3	2.21	0.41
1:3:636:LEU:HD23	1:3:636:LEU:C	2.46	0.41
1:4:92:HIS:CB	1:4:239:TRP:CB	2.97	0.41
1:4:99:GLU:O	1:4:103:TYR:HD2	2.04	0.41
1:4:237:LEU:HD13	1:4:238:THR:H	1.85	0.41
1:A:459:TRP:CD1	1:A:636:LEU:HD13	2.56	0.41
1:B:366:ILE:CG1	1:L:477:ILE:HB	2.51	0.41
1:B:459:TRP:CD1	1:B:636:LEU:HD13	2.56	0.41
1:C:96:LEU:N	1:C:96:LEU:CD2	2.73	0.41
1:C:614:GLY:N	1:C:620:LYS:HB2	2.36	0.41
1:D:99:GLU:O	1:D:103:TYR:HD2	2.03	0.41
1:E:222:ILE:HG12	1:E:370:LEU:HD22	2.03	0.41
1:F:99:GLU:O	1:F:103:TYR:HD2	2.04	0.41
1:F:360:GLN:N	1:F:509:SER:HG	2.19	0.41
1:F:396:LEU:C	1:F:398:GLN:H	2.27	0.41
1:F:459:TRP:CD1	1:F:636:LEU:HD13	2.56	0.41
1:G:397:GLN:O	1:G:401:SER:HB3	2.21	0.41
1:G:477:ILE:HB	1:I:366:ILE:CG1	2.50	0.41
1:H:99:GLU:O	1:H:103:TYR:HD2	2.04	0.41
1:H:237:LEU:HD13	1:H:238:THR:H	1.86	0.41
1:H:260:GLU:OE1	1:H:260:GLU:N	2.49	0.41
1:I:459:TRP:CD1	1:I:636:LEU:HD13	2.56	0.41
1:I:614:GLY:CA	1:I:620:LYS:H	2.34	0.41
1:K:614:GLY:N	1:K:620:LYS:HB2	2.36	0.41
1:L:459:TRP:CD1	1:L:636:LEU:HD13	2.56	0.41
1:M:614:GLY:N	1:M:620:LYS:HB2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:99:GLU:O	1:N:103:TYR:HD2	2.03	0.41
1:N:237:LEU:HD13	1:N:238:THR:H	1.85	0.41
1:O:366:ILE:CG1	1:n:477:ILE:HB	2.51	0.41
1:S:129:LYS:HE3	1:S:129:LYS:HB3	1.88	0.41
1:S:636:LEU:C	1:S:636:LEU:HD23	2.46	0.41
1:U:99:GLU:O	1:U:103:TYR:HD2	2.04	0.41
1:W:314:VAL:HG11	1:Y:80:ILE:HG22	2.01	0.41
1:b:636:LEU:HD23	1:b:636:LEU:C	2.46	0.41
1:d:477:ILE:HB	1:l:366:ILE:CG1	2.51	0.41
1:e:614:GLY:N	1:e:620:LYS:HB2	2.36	0.41
1:f:614:GLY:CA	1:f:620:LYS:H	2.34	0.41
1:i:99:GLU:O	1:i:103:TYR:HD2	2.03	0.41
1:i:397:GLN:O	1:i:401:SER:HB3	2.21	0.41
1:o:360:GLN:H	1:o:509:SER:HG	1.68	0.41
1:p:397:GLN:O	1:p:401:SER:HB3	2.21	0.41
1:q:99:GLU:O	1:q:103:TYR:HD2	2.04	0.41
1:r:477:ILE:HB	1:s:366:ILE:CG1	2.51	0.41
1:r:636:LEU:C	1:r:636:LEU:HD23	2.46	0.41
1:t:237:LEU:HD13	1:t:238:THR:H	1.85	0.41
1:t:366:ILE:CG1	1:v:477:ILE:HB	2.50	0.41
1:u:614:GLY:CA	1:u:620:LYS:H	2.34	0.41
1:y:396:LEU:C	1:y:398:GLN:H	2.27	0.41
1:y:459:TRP:CD1	1:y:636:LEU:HD13	2.56	0.41
1:1:96:LEU:H	1:1:96:LEU:CD2	2.03	0.41
1:1:301:PRO:HD2	1:2:215:ARG:HG3	2.03	0.41
1:1:459:TRP:CD1	1:1:636:LEU:HD13	2.56	0.41
1:2:237:LEU:HD13	1:2:238:THR:H	1.85	0.41
1:3:614:GLY:N	1:3:620:LYS:HB2	2.36	0.41
1:4:614:GLY:N	1:4:620:LYS:HB2	2.36	0.41
1:5:237:LEU:HD13	1:5:238:THR:H	1.86	0.41
1:6:314:VAL:HG11	1:7:80:ILE:HG22	2.01	0.41
1:7:279:TYR:CE2	1:7:554:PRO:HG3	2.56	0.41
1:8:614:GLY:CA	1:8:620:LYS:H	2.34	0.41
1:A:237:LEU:HD13	1:A:238:THR:H	1.86	0.41
1:A:366:ILE:CG1	1:I:477:ILE:HB	2.51	0.41
1:B:301:PRO:HD2	1:J:215:ARG:HG3	2.03	0.41
1:B:614:GLY:N	1:B:620:LYS:HB2	2.36	0.41
1:D:336:HIS:CE1	1:N:402:THR:CG2	3.03	0.41
1:G:237:LEU:HD13	1:G:238:THR:H	1.86	0.41
1:G:239:TRP:CH2	1:G:242:VAL:CA	2.70	0.41
1:H:92:HIS:CB	1:H:239:TRP:CB	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:459:TRP:CD1	1:H:636:LEU:HD13	2.56	0.41
1:J:459:TRP:CD1	1:J:636:LEU:HD13	2.56	0.41
1:K:92:HIS:CB	1:K:239:TRP:CB	2.97	0.41
1:N:397:GLN:O	1:N:401:SER:HB3	2.21	0.41
1:O:301:PRO:HD2	1:m:215:ARG:HG3	2.03	0.41
1:Q:397:GLN:O	1:Q:401:SER:HB3	2.21	0.41
1:R:99:GLU:O	1:R:103:TYR:HD2	2.04	0.41
1:T:88:ASP:HB3	1:T:100:PHE:CD1	2.55	0.41
1:T:222:ILE:HG12	1:T:370:LEU:HD22	2.03	0.41
1:T:366:ILE:CG1	1:l:477:ILE:HB	2.51	0.41
1:U:360:GLN:H	1:U:509:SER:HG	1.66	0.41
1:V:477:ILE:HB	1:e:366:ILE:CG1	2.51	0.41
1:W:614:GLY:N	1:W:620:LYS:HB2	2.36	0.41
1:Y:279:TYR:CE2	1:Y:554:PRO:HG3	2.56	0.41
1:Z:279:TYR:CE2	1:Z:554:PRO:HG3	2.56	0.41
1:a:288:LEU:HD23	1:a:288:LEU:HA	1.91	0.41
1:a:614:GLY:CA	1:a:620:LYS:H	2.34	0.41
1:c:301:PRO:HD2	1:o:215:ARG:HG3	2.03	0.41
1:d:336:HIS:CE1	1:l:402:THR:CG2	3.03	0.41
1:d:614:GLY:N	1:d:620:LYS:HB2	2.36	0.41
1:f:636:LEU:C	1:f:636:LEU:HD23	2.46	0.41
1:g:459:TRP:CD1	1:g:636:LEU:HD13	2.56	0.41
1:h:614:GLY:N	1:h:620:LYS:HB2	2.36	0.41
1:i:237:LEU:HD13	1:i:238:THR:H	1.86	0.41
1:i:402:THR:CG2	1:k:336:HIS:CE1	3.03	0.41
1:i:477:ILE:HB	1:j:366:ILE:CG1	2.51	0.41
1:k:614:GLY:CA	1:k:620:LYS:H	2.34	0.41
1:m:88:ASP:HB3	1:m:100:PHE:CD1	2.55	0.41
1:m:101:PHE:HZ	1:m:366:ILE:HD11	1.84	0.41
1:m:636:LEU:HD23	1:m:636:LEU:C	2.46	0.41
1:q:260:GLU:OE1	1:q:260:GLU:N	2.49	0.41
1:t:383:SER:HB3	1:t:398:GLN:HA	2.01	0.41
1:t:397:GLN:O	1:t:401:SER:HB3	2.21	0.41
1:t:477:ILE:HB	1:u:366:ILE:CG1	2.50	0.41
1:u:88:ASP:HB3	1:u:100:PHE:CD1	2.55	0.41
1:u:459:TRP:CD1	1:u:636:LEU:HD13	2.56	0.41
1:u:477:ILE:HB	1:v:366:ILE:CG1	2.51	0.41
1:v:99:GLU:O	1:v:103:TYR:HD2	2.04	0.41
1:v:237:LEU:HD13	1:v:238:THR:H	1.86	0.41
1:x:397:GLN:O	1:x:401:SER:HB3	2.21	0.41
1:x:477:ILE:HB	1:y:366:ILE:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:459:TRP:CD1	1:2:636:LEU:HD13	2.56	0.41
1:3:614:GLY:CA	1:3:620:LYS:H	2.34	0.41
1:5:459:TRP:CD1	1:5:636:LEU:HD13	2.56	0.41
1:6:279:TYR:CE2	1:6:554:PRO:HG3	2.56	0.41
1:7:99:GLU:O	1:7:103:TYR:HD2	2.03	0.41
1:7:129:LYS:HB3	1:7:129:LYS:HE3	1.88	0.41
1:A:92:HIS:CB	1:A:239:TRP:CB	2.97	0.41
1:A:530:ASP:OD1	1:A:531:LYS:N	2.48	0.41
1:B:92:HIS:CB	1:B:239:TRP:CB	2.97	0.41
1:B:215:ARG:HG3	1:L:301:PRO:HD2	2.03	0.41
1:B:279:TYR:CE2	1:B:554:PRO:HG3	2.56	0.41
1:C:215:ARG:HG3	1:M:301:PRO:HD2	2.03	0.41
1:C:459:TRP:CD1	1:C:636:LEU:HD13	2.56	0.41
1:C:477:ILE:HB	1:b:366:ILE:CG1	2.51	0.41
1:D:260:GLU:OE1	1:D:260:GLU:N	2.49	0.41
1:D:279:TYR:CE2	1:D:554:PRO:HG3	2.56	0.41
1:D:301:PRO:HD2	1:N:215:ARG:HG3	2.03	0.41
1:D:397:GLN:O	1:D:401:SER:HB3	2.21	0.41
1:D:614:GLY:CA	1:D:620:LYS:H	2.34	0.41
1:F:279:TYR:CE2	1:F:554:PRO:HG3	2.56	0.41
1:F:366:ILE:CG1	1:Q:477:ILE:HB	2.51	0.41
1:F:614:GLY:N	1:F:620:LYS:HB2	2.36	0.41
1:F:614:GLY:CA	1:F:620:LYS:H	2.34	0.41
1:G:288:LEU:HD23	1:G:288:LEU:HA	1.91	0.41
1:G:383:SER:HB3	1:G:398:GLN:HA	2.01	0.41
1:H:614:GLY:N	1:H:620:LYS:HB2	2.36	0.41
1:I:192:THR:H	1:I:556:GLN:NE2	2.06	0.41
1:I:636:LEU:HD23	1:I:636:LEU:C	2.46	0.41
1:J:237:LEU:HD13	1:J:238:THR:H	1.85	0.41
1:J:614:GLY:N	1:J:620:LYS:HB2	2.36	0.41
1:J:636:LEU:HD23	1:J:636:LEU:C	2.46	0.41
1:L:92:HIS:CB	1:L:239:TRP:CB	2.97	0.41
1:L:222:ILE:HG12	1:L:370:LEU:HD22	2.03	0.41
1:M:99:GLU:O	1:M:103:TYR:HD2	2.03	0.41
1:M:215:ARG:HG3	1:b:301:PRO:HD2	2.03	0.41
1:M:366:ILE:CG1	1:b:477:ILE:HB	2.51	0.41
1:N:477:ILE:HB	1:P:366:ILE:CG1	2.51	0.41
1:N:614:GLY:N	1:N:620:LYS:HB2	2.36	0.41
1:O:279:TYR:CE2	1:O:554:PRO:HG3	2.56	0.41
1:O:477:ILE:HB	1:m:366:ILE:CG1	2.51	0.41
1:P:47:ASN:ND2	1:P:66:ARG:HH12	2.17	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:222:ILE:HG12	1:P:370:LEU:HD22	2.03	0.41
1:P:459:TRP:CD1	1:P:636:LEU:HD13	2.56	0.41
1:P:614:GLY:N	1:P:620:LYS:HB2	2.36	0.41
1:Q:222:ILE:HG12	1:Q:370:LEU:HD22	2.03	0.41
1:Q:237:LEU:HD13	1:Q:238:THR:H	1.86	0.41
1:R:237:LEU:HD13	1:R:238:THR:H	1.85	0.41
1:R:614:GLY:N	1:R:620:LYS:HB2	2.36	0.41
1:R:636:LEU:HD23	1:R:636:LEU:C	2.46	0.41
1:T:215:ARG:HG3	1:l:301:PRO:HD2	2.03	0.41
1:T:397:GLN:O	1:T:401:SER:HB3	2.21	0.41
1:T:459:TRP:CD1	1:T:636:LEU:HD13	2.56	0.41
1:T:614:GLY:N	1:T:620:LYS:HB2	2.36	0.41
1:T:636:LEU:HD23	1:T:636:LEU:C	2.46	0.41
1:V:336:HIS:CE1	1:e:402:THR:CG2	3.02	0.41
1:V:367:PRO:HB2	1:X:471:HIS:HD2	1.85	0.41
1:V:397:GLN:O	1:V:401:SER:HB3	2.21	0.41
1:V:636:LEU:HD23	1:V:636:LEU:C	2.46	0.41
1:W:92:HIS:CB	1:W:239:TRP:CB	2.97	0.41
1:W:279:TYR:CE2	1:W:554:PRO:HG3	2.56	0.41
1:W:301:PRO:HD2	1:Y:215:ARG:HG3	2.03	0.41
1:W:477:ILE:HB	1:Y:366:ILE:CG1	2.51	0.41
1:W:636:LEU:HD23	1:W:636:LEU:C	2.46	0.41
1:X:360:GLN:H	1:X:509:SER:HG	1.69	0.41
1:X:366:ILE:CG1	1:e:477:ILE:HB	2.51	0.41
1:X:397:GLN:O	1:X:401:SER:HB3	2.21	0.41
1:Y:99:GLU:O	1:Y:103:TYR:HD2	2.04	0.41
1:Z:92:HIS:CB	1:Z:239:TRP:CB	2.97	0.41
1:Z:215:ARG:HG3	1:3:301:PRO:HD2	2.03	0.41
1:Z:237:LEU:HD13	1:Z:238:THR:H	1.86	0.41
1:Z:396:LEU:C	1:Z:398:GLN:H	2.27	0.41
1:Z:459:TRP:CD1	1:Z:636:LEU:HD13	2.56	0.41
1:a:301:PRO:HD2	1:8:215:ARG:HG3	2.03	0.41
1:a:614:GLY:N	1:a:620:LYS:HB2	2.36	0.41
1:b:614:GLY:CA	1:b:620:LYS:H	2.34	0.41
1:c:237:LEU:HD13	1:c:238:THR:H	1.86	0.41
1:c:402:THR:CG2	1:p:336:HIS:CE1	3.02	0.41
1:c:614:GLY:CA	1:c:620:LYS:H	2.34	0.41
1:e:614:GLY:CA	1:e:620:LYS:H	2.34	0.41
1:f:366:ILE:CG1	1:g:477:ILE:HB	2.51	0.41
1:g:215:ARG:HG3	1:h:301:PRO:HD2	2.03	0.41
1:g:366:ILE:CG1	1:h:477:ILE:HB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:99:GLU:O	1:h:103:TYR:HD2	2.03	0.41
1:i:215:ARG:HG3	1:k:301:PRO:HD2	2.03	0.41
1:j:47:ASN:ND2	1:j:66:ARG:HH12	2.17	0.41
1:j:99:GLU:O	1:j:103:TYR:HD2	2.04	0.41
1:j:222:ILE:HG12	1:j:370:LEU:HD22	2.03	0.41
1:j:234:THR:HB	1:j:235:GLU:H	1.71	0.41
1:j:397:GLN:O	1:j:401:SER:HB3	2.21	0.41
1:j:459:TRP:CD1	1:j:636:LEU:HD13	2.56	0.41
1:j:614:GLY:N	1:j:620:LYS:HB2	2.36	0.41
1:k:99:GLU:O	1:k:103:TYR:HD2	2.03	0.41
1:k:279:TYR:CE2	1:k:554:PRO:HG3	2.56	0.41
1:k:397:GLN:O	1:k:401:SER:HB3	2.21	0.41
1:l:279:TYR:CE2	1:l:554:PRO:HG3	2.56	0.41
1:m:222:ILE:HG12	1:m:370:LEU:HD22	2.03	0.41
1:m:614:GLY:N	1:m:620:LYS:HB2	2.36	0.41
1:o:336:HIS:CE1	1:p:402:THR:CG2	3.02	0.41
1:o:397:GLN:O	1:o:401:SER:HB3	2.21	0.41
1:p:636:LEU:HD23	1:p:636:LEU:C	2.46	0.41
1:q:237:LEU:HD13	1:q:238:THR:H	1.85	0.41
1:q:477:ILE:HB	1:r:366:ILE:CG1	2.51	0.41
1:q:614:GLY:N	1:q:620:LYS:HB2	2.36	0.41
1:q:636:LEU:HD23	1:q:636:LEU:C	2.46	0.41
1:r:129:LYS:HE3	1:r:129:LYS:HB3	1.88	0.41
1:t:215:ARG:HG3	1:v:301:PRO:HD2	2.03	0.41
1:t:288:LEU:HD23	1:t:288:LEU:HA	1.91	0.41
1:u:192:THR:H	1:u:556:GLN:NE2	2.06	0.41
1:u:636:LEU:HD23	1:u:636:LEU:C	2.46	0.41
1:v:614:GLY:N	1:v:620:LYS:HB2	2.36	0.41
1:w:614:GLY:CA	1:w:620:LYS:H	2.34	0.41
1:x:222:ILE:HG12	1:x:370:LEU:HD22	2.03	0.41
1:x:237:LEU:HD13	1:x:238:THR:H	1.86	0.41
1:y:279:TYR:CE2	1:y:554:PRO:HG3	2.56	0.41
1:y:614:GLY:CA	1:y:620:LYS:H	2.34	0.41
1:z:92:HIS:CB	1:z:239:TRP:CB	2.97	0.41
1:z:222:ILE:HG12	1:z:370:LEU:HD22	2.03	0.41
1:z:301:PRO:HD2	1:1:215:ARG:HG3	2.03	0.41
1:z:402:THR:CG2	1:2:336:HIS:CE1	3.03	0.41
1:z:459:TRP:CD1	1:z:636:LEU:HD13	2.56	0.41
1:1:614:GLY:N	1:1:620:LYS:HB2	2.36	0.41
1:2:614:GLY:N	1:2:620:LYS:HB2	2.36	0.41
1:5:92:HIS:CB	1:5:239:TRP:CB	2.97	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:215:ARG:HG3	1:7:301:PRO:HD2	2.03	0.41
1:5:260:GLU:OE1	1:5:260:GLU:N	2.49	0.41
1:5:614:GLY:N	1:5:620:LYS:HB2	2.36	0.41
1:6:92:HIS:CB	1:6:239:TRP:CB	2.97	0.41
1:6:301:PRO:HD2	1:7:215:ARG:HG3	2.03	0.41
1:6:477:ILE:HB	1:7:366:ILE:CG1	2.51	0.41
1:6:614:GLY:N	1:6:620:LYS:HB2	2.36	0.41
1:6:636:LEU:HD23	1:6:636:LEU:C	2.46	0.41
1:7:614:GLY:CA	1:7:620:LYS:H	2.34	0.41
1:8:92:HIS:CB	1:8:239:TRP:CB	2.97	0.41
1:8:237:LEU:HD13	1:8:238:THR:H	1.86	0.41
1:8:279:TYR:CE2	1:8:554:PRO:HG3	2.56	0.41
1:8:396:LEU:C	1:8:398:GLN:H	2.27	0.41
1:A:397:GLN:O	1:A:401:SER:HB3	2.21	0.41
1:A:614:GLY:N	1:A:620:LYS:HB2	2.36	0.41
1:C:99:GLU:O	1:C:103:TYR:HD2	2.04	0.41
1:C:366:ILE:CG1	1:M:477:ILE:HB	2.51	0.41
1:E:99:GLU:O	1:E:103:TYR:HD2	2.04	0.41
1:E:614:GLY:CA	1:E:620:LYS:H	2.34	0.41
1:H:366:ILE:CG1	1:Y:477:ILE:HB	2.51	0.41
1:J:336:HIS:CE1	1:L:402:THR:CG2	3.03	0.41
1:K:301:PRO:HD2	1:a:215:ARG:HG3	2.03	0.41
1:L:279:TYR:CE2	1:L:554:PRO:HG3	2.56	0.41
1:L:397:GLN:O	1:L:401:SER:HB3	2.21	0.41
1:O:402:THR:CG2	1:n:336:HIS:CE1	3.03	0.41
1:P:99:GLU:O	1:P:103:TYR:HD2	2.04	0.41
1:P:397:GLN:O	1:P:401:SER:HB3	2.21	0.41
1:Q:614:GLY:N	1:Q:620:LYS:HB2	2.36	0.41
1:R:215:ARG:HG3	1:U:301:PRO:HD2	2.03	0.41
1:R:301:PRO:HD2	1:S:215:ARG:HG3	2.03	0.41
1:R:477:ILE:HB	1:S:366:ILE:CG1	2.51	0.41
1:T:313:LYS:O	1:T:316:SER:OG	2.26	0.41
1:X:614:GLY:CA	1:X:620:LYS:H	2.34	0.41
1:c:366:ILE:CG1	1:p:477:ILE:HB	2.51	0.41
1:d:92:HIS:CB	1:d:239:TRP:CB	2.97	0.41
1:d:237:LEU:HD13	1:d:238:THR:H	1.86	0.41
1:e:237:LEU:HD13	1:e:238:THR:H	1.86	0.41
1:f:301:PRO:HD2	1:h:215:ARG:HG3	2.03	0.41
1:f:477:ILE:HB	1:h:366:ILE:CG1	2.51	0.41
1:g:99:GLU:O	1:g:103:TYR:HD2	2.04	0.41
1:g:279:TYR:CE2	1:g:554:PRO:HG3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:459:TRP:CD1	1:h:636:LEU:HD13	2.56	0.41
1:i:88:ASP:HB3	1:i:100:PHE:CD1	2.55	0.41
1:i:336:HIS:CE1	1:j:402:THR:CG2	3.03	0.41
1:m:313:LYS:O	1:m:316:SER:OG	2.26	0.41
1:m:459:TRP:CD1	1:m:636:LEU:HD13	2.56	0.41
1:q:215:ARG:HG3	1:s:301:PRO:HD2	2.03	0.41
1:q:222:ILE:HG12	1:q:370:LEU:HD22	2.03	0.41
1:q:301:PRO:HD2	1:r:215:ARG:HG3	2.03	0.41
1:q:366:ILE:CG1	1:s:477:ILE:HB	2.51	0.41
1:s:237:LEU:HD13	1:s:238:THR:H	1.85	0.41
1:s:459:TRP:CD1	1:s:636:LEU:HD13	2.56	0.41
1:v:92:HIS:CB	1:v:239:TRP:CB	2.97	0.41
1:w:99:GLU:O	1:w:103:TYR:HD2	2.04	0.41
1:x:614:GLY:N	1:x:620:LYS:HB2	2.36	0.41
1:y:614:GLY:N	1:y:620:LYS:HB2	2.36	0.41
1:z:279:TYR:CE2	1:z:554:PRO:HG3	2.56	0.41
1:1:92:HIS:CB	1:1:239:TRP:CB	2.97	0.41
1:1:279:TYR:CE2	1:1:554:PRO:HG3	2.56	0.41
1:2:636:LEU:HD23	1:2:636:LEU:C	2.46	0.41
1:3:99:GLU:O	1:3:103:TYR:HD2	2.03	0.41
1:3:215:ARG:HG3	1:4:301:PRO:HD2	2.03	0.41
1:7:459:TRP:CD1	1:7:636:LEU:HD13	2.56	0.41
1:8:397:GLN:O	1:8:401:SER:HB3	2.21	0.41
1:8:459:TRP:CD1	1:8:636:LEU:HD13	2.56	0.41
1:A:477:ILE:HB	1:G:366:ILE:CG1	2.51	0.40
1:C:279:TYR:CE2	1:C:554:PRO:HG3	2.56	0.40
1:D:636:LEU:C	1:D:636:LEU:HD23	2.46	0.40
1:E:103:TYR:OH	1:F:342:ARG:NH2	2.54	0.40
1:E:279:TYR:CE2	1:E:554:PRO:HG3	2.56	0.40
1:E:397:GLN:O	1:E:401:SER:HB3	2.21	0.40
1:H:215:ARG:HG3	1:Y:301:PRO:HD2	2.03	0.40
1:H:222:ILE:HG12	1:H:370:LEU:HD22	2.03	0.40
1:M:459:TRP:CD1	1:M:636:LEU:HD13	2.56	0.40
1:N:88:ASP:HB3	1:N:100:PHE:CD1	2.55	0.40
1:N:336:HIS:CE1	1:P:402:THR:CG2	3.03	0.40
1:R:222:ILE:HG12	1:R:370:LEU:HD22	2.03	0.40
1:S:397:GLN:O	1:S:401:SER:HB3	2.21	0.40
1:U:237:LEU:HD13	1:U:238:THR:H	1.85	0.40
1:U:459:TRP:CD1	1:U:636:LEU:HD13	2.56	0.40
1:U:614:GLY:CA	1:U:620:LYS:H	2.34	0.40
1:V:88:ASP:HB3	1:V:100:PHE:CD1	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:366:ILE:CG1	1:X:477:ILE:HB	2.51	0.40
1:W:397:GLN:O	1:W:401:SER:HB3	2.21	0.40
1:W:459:TRP:CD1	1:W:636:LEU:HD13	2.56	0.40
1:W:530:ASP:OD1	1:W:531:LYS:N	2.48	0.40
1:Y:459:TRP:CD1	1:Y:636:LEU:HD13	2.56	0.40
1:Z:397:GLN:O	1:Z:401:SER:HB3	2.21	0.40
1:a:99:GLU:O	1:a:103:TYR:HD2	2.03	0.40
1:b:614:GLY:N	1:b:620:LYS:HB2	2.36	0.40
1:c:99:GLU:O	1:c:103:TYR:HD2	2.03	0.40
1:e:99:GLU:O	1:e:103:TYR:HD2	2.03	0.40
1:i:614:GLY:N	1:i:620:LYS:HB2	2.36	0.40
1:k:636:LEU:C	1:k:636:LEU:HD23	2.46	0.40
1:m:397:GLN:O	1:m:401:SER:HB3	2.21	0.40
1:m:477:ILE:HB	1:n:366:ILE:CG1	2.51	0.40
1:n:92:HIS:CB	1:n:239:TRP:CB	2.97	0.40
1:n:237:LEU:HD13	1:n:238:THR:H	1.86	0.40
1:n:279:TYR:CE2	1:n:554:PRO:HG3	2.56	0.40
1:o:477:ILE:HB	1:p:366:ILE:CG1	2.51	0.40
1:r:397:GLN:O	1:r:401:SER:HB3	2.21	0.40
1:s:397:GLN:O	1:s:401:SER:HB3	2.21	0.40
1:v:397:GLN:O	1:v:401:SER:HB3	2.21	0.40
1:z:397:GLN:O	1:z:401:SER:HB3	2.21	0.40
1:3:96:LEU:N	1:3:96:LEU:CD2	2.73	0.40
1:3:313:LYS:O	1:3:316:SER:OG	2.26	0.40
1:5:222:ILE:HG12	1:5:370:LEU:HD22	2.03	0.40
1:5:366:ILE:CG1	1:7:477:ILE:HB	2.51	0.40
1:6:397:GLN:O	1:6:401:SER:HB3	2.21	0.40
1:6:459:TRP:CD1	1:6:636:LEU:HD13	2.56	0.40
1:D:222:ILE:HG12	1:D:370:LEU:HD22	2.03	0.40
1:E:366:ILE:CG1	1:F:477:ILE:HB	2.51	0.40
1:E:459:TRP:CD1	1:E:636:LEU:HD13	2.56	0.40
1:F:215:ARG:HG3	1:Q:301:PRO:HD2	2.03	0.40
1:G:92:HIS:CB	1:G:239:TRP:CB	2.97	0.40
1:G:279:TYR:CE2	1:G:554:PRO:HG3	2.56	0.40
1:G:301:PRO:HD2	1:I:215:ARG:HG3	2.03	0.40
1:M:236:THR:O	1:M:236:THR:HG23	2.22	0.40
1:N:236:THR:O	1:N:236:THR:HG23	2.21	0.40
1:N:279:TYR:CE2	1:N:554:PRO:HG3	2.56	0.40
1:Q:530:ASP:OD1	1:Q:531:LYS:N	2.48	0.40
1:R:366:ILE:CG1	1:U:477:ILE:HB	2.51	0.40
1:T:477:ILE:HB	1:d:366:ILE:CG1	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:336:HIS:CE1	1:Y:402:THR:CG2	3.03	0.40
1:Y:614:GLY:N	1:Y:620:LYS:HB2	2.36	0.40
1:Y:614:GLY:CA	1:Y:620:LYS:H	2.34	0.40
1:a:96:LEU:N	1:a:96:LEU:CD2	2.73	0.40
1:b:92:HIS:CB	1:b:239:TRP:CB	2.97	0.40
1:d:279:TYR:CE2	1:d:554:PRO:HG3	2.56	0.40
1:f:614:GLY:N	1:f:620:LYS:HB2	2.36	0.40
1:h:236:THR:O	1:h:236:THR:HG23	2.22	0.40
1:i:260:GLU:OE1	1:i:260:GLU:N	2.49	0.40
1:m:92:HIS:CB	1:m:239:TRP:CB	2.97	0.40
1:n:260:GLU:OE1	1:n:260:GLU:N	2.49	0.40
1:p:88:ASP:HB3	1:p:100:PHE:CD1	2.55	0.40
1:s:279:TYR:CE2	1:s:554:PRO:HG3	2.56	0.40
1:t:301:PRO:HD2	1:u:215:ARG:HG3	2.03	0.40
1:u:301:PRO:HD2	1:v:215:ARG:HG3	2.03	0.40
1:w:103:TYR:OH	1:y:342:ARG:NH2	2.54	0.40
1:y:360:GLN:N	1:y:509:SER:HG	2.19	0.40
1:1:99:GLU:O	1:1:103:TYR:HD2	2.04	0.40
1:4:279:TYR:CE2	1:4:554:PRO:HG3	2.56	0.40
1:6:336:HIS:CE1	1:7:402:THR:CG2	3.03	0.40
1:B:237:LEU:HD13	1:B:238:THR:H	1.85	0.40
1:C:222:ILE:HG12	1:C:370:LEU:HD22	2.03	0.40
1:D:288:LEU:HD23	1:D:288:LEU:HA	1.91	0.40
1:E:336:HIS:CE1	1:Q:402:THR:CG2	3.03	0.40
1:G:222:ILE:HG12	1:G:370:LEU:HD22	2.03	0.40
1:H:477:ILE:HB	1:W:366:ILE:CG1	2.51	0.40
1:I:614:GLY:N	1:I:620:LYS:HB2	2.36	0.40
1:K:279:TYR:CE2	1:K:554:PRO:HG3	2.56	0.40
1:L:288:LEU:HD23	1:L:288:LEU:HA	1.91	0.40
1:M:279:TYR:CE2	1:M:554:PRO:HG3	2.56	0.40
1:N:260:GLU:OE1	1:N:260:GLU:N	2.49	0.40
1:S:237:LEU:HD13	1:S:238:THR:H	1.85	0.40
1:S:279:TYR:CE2	1:S:554:PRO:HG3	2.56	0.40
1:S:530:ASP:OD1	1:S:531:LYS:N	2.48	0.40
1:T:279:TYR:CE2	1:T:554:PRO:HG3	2.56	0.40
1:U:279:TYR:CE2	1:U:554:PRO:HG3	2.56	0.40
1:U:397:GLN:O	1:U:401:SER:HB3	2.21	0.40
1:Y:129:LYS:HB3	1:Y:129:LYS:HE3	1.88	0.40
1:Z:236:THR:HG23	1:Z:236:THR:O	2.22	0.40
1:a:342:ARG:NH2	1:8:103:TYR:OH	2.54	0.40
1:b:222:ILE:HG12	1:b:370:LEU:HD22	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:279:TYR:CE2	1:b:554:PRO:HG3	2.56	0.40
1:c:360:GLN:H	1:c:509:SER:HG	1.69	0.40
1:e:222:ILE:HG12	1:e:370:LEU:HD22	2.03	0.40
1:i:279:TYR:CE2	1:i:554:PRO:HG3	2.56	0.40
1:k:288:LEU:HD23	1:k:288:LEU:HA	1.91	0.40
1:m:99:GLU:O	1:m:103:TYR:HD2	2.04	0.40
1:o:236:THR:HG23	1:o:236:THR:O	2.22	0.40
1:s:614:GLY:CA	1:s:620:LYS:H	2.34	0.40
1:t:239:TRP:CH2	1:t:242:VAL:CA	2.70	0.40
1:t:279:TYR:CE2	1:t:554:PRO:HG3	2.56	0.40
1:u:279:TYR:CE2	1:u:554:PRO:HG3	2.56	0.40
1:w:279:TYR:CE2	1:w:554:PRO:HG3	2.56	0.40
1:w:397:GLN:O	1:w:401:SER:HB3	2.21	0.40
1:w:459:TRP:CD1	1:w:636:LEU:HD13	2.56	0.40
1:z:288:LEU:HD23	1:z:288:LEU:HA	1.91	0.40
1:3:237:LEU:HD13	1:3:238:THR:H	1.85	0.40
1:5:477:ILE:HB	1:6:366:ILE:CG1	2.51	0.40
1:8:636:LEU:C	1:8:636:LEU:HD23	2.46	0.40
1:A:301:PRO:HD2	1:G:215:ARG:HG3	2.03	0.40
1:B:99:GLU:O	1:B:103:TYR:HD2	2.04	0.40
1:I:279:TYR:CE2	1:I:554:PRO:HG3	2.56	0.40
1:J:236:THR:HG23	1:J:236:THR:O	2.22	0.40
1:T:92:HIS:CB	1:T:239:TRP:CB	2.97	0.40
1:T:99:GLU:O	1:T:103:TYR:HD2	2.04	0.40
1:T:301:PRO:HD2	1:d:215:ARG:HG3	2.03	0.40
1:X:236:THR:HG23	1:X:236:THR:O	2.22	0.40
1:Z:636:LEU:C	1:Z:636:LEU:HD23	2.46	0.40
1:a:104:ASP:N	1:a:104:ASP:OD1	2.55	0.40
1:c:222:ILE:HG12	1:c:370:LEU:HD22	2.03	0.40
1:d:222:ILE:HG12	1:d:370:LEU:HD22	2.03	0.40
1:d:260:GLU:OE1	1:d:260:GLU:N	2.49	0.40
1:e:92:HIS:CB	1:e:239:TRP:CB	2.97	0.40
1:e:360:GLN:H	1:e:509:SER:HG	1.69	0.40
1:f:222:ILE:HG12	1:f:370:LEU:HD22	2.03	0.40
1:g:222:ILE:HG12	1:g:370:LEU:HD22	2.03	0.40
1:h:279:TYR:CE2	1:h:554:PRO:HG3	2.56	0.40
1:i:236:THR:O	1:i:236:THR:HG23	2.22	0.40
1:k:222:ILE:HG12	1:k:370:LEU:HD22	2.03	0.40
1:m:279:TYR:CE2	1:m:554:PRO:HG3	2.56	0.40
1:r:236:THR:O	1:r:236:THR:HG23	2.22	0.40
1:r:279:TYR:CE2	1:r:554:PRO:HG3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:92:HIS:CB	1:t:239:TRP:CB	2.97	0.40
1:t:222:ILE:HG12	1:t:370:LEU:HD22	2.03	0.40
1:u:614:GLY:N	1:u:620:LYS:HB2	2.36	0.40
1:w:366:ILE:CG1	1:y:477:ILE:HB	2.51	0.40
1:x:96:LEU:N	1:x:96:LEU:CD2	2.73	0.40
1:x:301:PRO:HD2	1:y:215:ARG:HG3	2.03	0.40
1:z:614:GLY:CA	1:z:620:LYS:H	2.34	0.40
1:2:236:THR:HG23	1:2:236:THR:O	2.22	0.40
1:3:236:THR:HG23	1:3:236:THR:O	2.22	0.40
1:3:279:TYR:CE2	1:3:554:PRO:HG3	2.56	0.40
1:4:94:GLN:HB3	1:4:95:LYS:H	1.71	0.40
1:5:636:LEU:C	1:5:636:LEU:HD23	2.46	0.40
1:6:236:THR:O	1:6:236:THR:HG23	2.22	0.40
1:8:236:THR:HG23	1:8:236:THR:O	2.22	0.40
1:B:236:THR:O	1:B:236:THR:HG23	2.22	0.40
1:B:336:HIS:CE1	1:J:402:THR:CG2	3.03	0.40
1:B:402:THR:CG2	1:L:336:HIS:CE1	3.03	0.40
1:D:402:THR:CG2	1:P:336:HIS:CE1	3.03	0.40
1:G:636:LEU:C	1:G:636:LEU:HD23	2.46	0.40
1:O:222:ILE:HG12	1:O:370:LEU:HD22	2.03	0.40
1:O:459:TRP:CD1	1:O:636:LEU:HD13	2.56	0.40
1:P:234:THR:HB	1:P:235:GLU:H	1.71	0.40
1:Q:99:GLU:O	1:Q:103:TYR:HD2	2.03	0.40
1:S:236:THR:O	1:S:236:THR:HG23	2.22	0.40
1:S:336:HIS:CE1	1:U:402:THR:CG2	3.03	0.40
1:V:614:GLY:N	1:V:620:LYS:HB2	2.36	0.40
1:W:236:THR:O	1:W:236:THR:HG23	2.22	0.40
1:Y:222:ILE:HG12	1:Y:370:LEU:HD22	2.03	0.40
1:Z:103:TYR:OH	1:3:342:ARG:NH2	2.54	0.40
1:a:336:HIS:CE1	1:8:402:THR:CG2	3.03	0.40
1:c:92:HIS:CB	1:c:239:TRP:CB	2.97	0.40
1:f:92:HIS:CB	1:f:239:TRP:CB	2.97	0.40
1:f:279:TYR:CE2	1:f:554:PRO:HG3	2.56	0.40
1:g:614:GLY:CA	1:g:620:LYS:H	2.34	0.40
1:i:366:ILE:CG1	1:k:477:ILE:HB	2.51	0.40
1:j:336:HIS:CE1	1:k:402:THR:CG2	3.02	0.40
1:r:237:LEU:HD13	1:r:238:THR:H	1.85	0.40
1:t:360:GLN:H	1:t:509:SER:HG	1.68	0.40
1:t:402:THR:CG2	1:v:336:HIS:CE1	3.03	0.40
1:t:636:LEU:HD23	1:t:636:LEU:C	2.46	0.40
1:w:94:GLN:HB3	1:w:95:LYS:H	1.71	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:336:HIS:CE1	1:x:402:THR:CG2	3.03	0.40
1:z:366:ILE:CG1	1:2:477:ILE:HB	2.51	0.40
1:1:236:THR:O	1:1:236:THR:HG23	2.22	0.40
1:1:237:LEU:HD13	1:1:238:THR:H	1.85	0.40
1:3:104:ASP:N	1:3:104:ASP:OD1	2.55	0.40
1:4:636:LEU:HD23	1:4:636:LEU:C	2.46	0.40
1:6:530:ASP:OD1	1:6:531:LYS:N	2.48	0.40
1:7:222:ILE:HG12	1:7:370:LEU:HD22	2.03	0.40
1:7:614:GLY:N	1:7:620:LYS:HB2	2.36	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	1	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	2	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	3	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	4	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	5	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	6	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	7	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	8	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	A	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	B	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	C	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	D	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	E	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	G	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	H	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	I	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	J	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	K	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	L	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	M	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	N	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	O	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	P	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	Q	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	R	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	S	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	T	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	U	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	V	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	W	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	X	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	Y	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	Z	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	a	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	b	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	c	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	d	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	e	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	f	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	g	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	h	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	i	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	j	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	k	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	l	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	m	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	n	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	o	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	p	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	q	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	r	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	s	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	t	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	u	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	v	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	w	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	x	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	y	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
1	z	572/647 (88%)	544 (95%)	26 (4%)	2 (0%)	37	49
All	All	34320/38820 (88%)	32640 (95%)	1560 (4%)	120 (0%)	38	49

All (120) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	242	VAL
1	B	242	VAL
1	C	242	VAL
1	D	242	VAL
1	E	242	VAL
1	F	242	VAL
1	G	242	VAL
1	H	242	VAL
1	I	242	VAL
1	J	242	VAL
1	K	242	VAL
1	L	242	VAL
1	M	242	VAL
1	N	242	VAL
1	O	242	VAL

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Mol	Chain	Res	Type
1	P	242	VAL
1	Q	242	VAL
1	R	242	VAL
1	S	242	VAL
1	T	242	VAL
1	U	242	VAL
1	V	242	VAL
1	W	242	VAL
1	X	242	VAL
1	Y	242	VAL
1	Z	242	VAL
1	a	242	VAL
1	b	242	VAL
1	c	242	VAL
1	d	242	VAL
1	e	242	VAL
1	f	242	VAL
1	g	242	VAL
1	h	242	VAL
1	i	242	VAL
1	j	242	VAL
1	k	242	VAL
1	l	242	VAL
1	m	242	VAL
1	n	242	VAL
1	o	242	VAL
1	p	242	VAL
1	q	242	VAL
1	r	242	VAL
1	s	242	VAL
1	t	242	VAL
1	u	242	VAL
1	v	242	VAL
1	w	242	VAL
1	x	242	VAL
1	y	242	VAL
1	z	242	VAL
1	1	242	VAL
1	2	242	VAL
1	3	242	VAL
1	4	242	VAL
1	5	242	VAL

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Mol	Chain	Res	Type
1	6	242	VAL
1	7	242	VAL
1	8	242	VAL
1	A	393	SER
1	B	393	SER
1	C	393	SER
1	D	393	SER
1	E	393	SER
1	F	393	SER
1	G	393	SER
1	H	393	SER
1	I	393	SER
1	J	393	SER
1	K	393	SER
1	L	393	SER
1	M	393	SER
1	N	393	SER
1	O	393	SER
1	P	393	SER
1	Q	393	SER
1	R	393	SER
1	S	393	SER
1	T	393	SER
1	U	393	SER
1	V	393	SER
1	W	393	SER
1	X	393	SER
1	Y	393	SER
1	Z	393	SER
1	a	393	SER
1	b	393	SER
1	c	393	SER
1	d	393	SER
1	e	393	SER
1	f	393	SER
1	g	393	SER
1	h	393	SER
1	i	393	SER
1	j	393	SER
1	k	393	SER
1	l	393	SER
1	m	393	SER

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Mol	Chain	Res	Type
1	n	393	SER
1	o	393	SER
1	p	393	SER
1	q	393	SER
1	r	393	SER
1	s	393	SER
1	t	393	SER
1	u	393	SER
1	v	393	SER
1	w	393	SER
1	x	393	SER
1	y	393	SER
1	z	393	SER
1	1	393	SER
1	2	393	SER
1	3	393	SER
1	4	393	SER
1	5	393	SER
1	6	393	SER
1	7	393	SER
1	8	393	SER

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	1	515/563 (92%)	508 (99%)	7 (1%)	62 78
1	2	515/563 (92%)	508 (99%)	7 (1%)	62 78
1	3	515/563 (92%)	508 (99%)	7 (1%)	62 78
1	4	515/563 (92%)	508 (99%)	7 (1%)	62 78
1	5	515/563 (92%)	508 (99%)	7 (1%)	62 78
1	6	515/563 (92%)	508 (99%)	7 (1%)	62 78
1	7	515/563 (92%)	508 (99%)	7 (1%)	62 78
1	8	515/563 (92%)	508 (99%)	7 (1%)	62 78

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	B	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	C	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	D	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	E	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	F	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	G	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	H	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	I	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	J	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	K	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	L	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	M	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	N	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	O	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	P	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	Q	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	R	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	S	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	T	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	U	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	V	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	W	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	X	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	Y	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	Z	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	a	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	b	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	c	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	d	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	e	515/563 (92%)	508 (99%)	7 (1%)	62	78

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	f	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	g	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	h	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	i	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	j	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	k	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	l	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	m	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	n	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	o	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	p	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	q	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	r	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	s	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	t	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	u	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	v	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	w	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	x	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	y	515/563 (92%)	508 (99%)	7 (1%)	62	78
1	z	515/563 (92%)	508 (99%)	7 (1%)	62	78
All	All	30900/33780 (92%)	30480 (99%)	420 (1%)	62	78

All (420) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	96	LEU
1	A	116	ILE
1	A	165	ASN
1	A	168	THR
1	A	234	THR
1	A	237	LEU
1	A	640	ARG
1	B	96	LEU
1	B	116	ILE

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Mol	Chain	Res	Type
1	B	165	ASN
1	B	168	THR
1	B	234	THR
1	B	237	LEU
1	B	640	ARG
1	C	96	LEU
1	C	116	ILE
1	C	165	ASN
1	C	168	THR
1	C	234	THR
1	C	237	LEU
1	C	640	ARG
1	D	96	LEU
1	D	116	ILE
1	D	165	ASN
1	D	168	THR
1	D	234	THR
1	D	237	LEU
1	D	640	ARG
1	E	96	LEU
1	E	116	ILE
1	E	165	ASN
1	E	168	THR
1	E	234	THR
1	E	237	LEU
1	E	640	ARG
1	F	96	LEU
1	F	116	ILE
1	F	165	ASN
1	F	168	THR
1	F	234	THR
1	F	237	LEU
1	F	640	ARG
1	G	96	LEU
1	G	116	ILE
1	G	165	ASN
1	G	168	THR
1	G	234	THR
1	G	237	LEU
1	G	640	ARG
1	H	96	LEU
1	H	116	ILE

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Mol	Chain	Res	Type
1	H	165	ASN
1	H	168	THR
1	H	234	THR
1	H	237	LEU
1	H	640	ARG
1	I	96	LEU
1	I	116	ILE
1	I	165	ASN
1	I	168	THR
1	I	234	THR
1	I	237	LEU
1	I	640	ARG
1	J	96	LEU
1	J	116	ILE
1	J	165	ASN
1	J	168	THR
1	J	234	THR
1	J	237	LEU
1	J	640	ARG
1	K	96	LEU
1	K	116	ILE
1	K	165	ASN
1	K	168	THR
1	K	234	THR
1	K	237	LEU
1	K	640	ARG
1	L	96	LEU
1	L	116	ILE
1	L	165	ASN
1	L	168	THR
1	L	234	THR
1	L	237	LEU
1	L	640	ARG
1	M	96	LEU
1	M	116	ILE
1	M	165	ASN
1	M	168	THR
1	M	234	THR
1	M	237	LEU
1	M	640	ARG
1	N	96	LEU
1	N	116	ILE

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Mol	Chain	Res	Type
1	N	165	ASN
1	N	168	THR
1	N	234	THR
1	N	237	LEU
1	N	640	ARG
1	O	96	LEU
1	O	116	ILE
1	O	165	ASN
1	O	168	THR
1	O	234	THR
1	O	237	LEU
1	O	640	ARG
1	P	96	LEU
1	P	116	ILE
1	P	165	ASN
1	P	168	THR
1	P	234	THR
1	P	237	LEU
1	P	640	ARG
1	Q	96	LEU
1	Q	116	ILE
1	Q	165	ASN
1	Q	168	THR
1	Q	234	THR
1	Q	237	LEU
1	Q	640	ARG
1	R	96	LEU
1	R	116	ILE
1	R	165	ASN
1	R	168	THR
1	R	234	THR
1	R	237	LEU
1	R	640	ARG
1	S	96	LEU
1	S	116	ILE
1	S	165	ASN
1	S	168	THR
1	S	234	THR
1	S	237	LEU
1	S	640	ARG
1	T	96	LEU
1	T	116	ILE

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Mol	Chain	Res	Type
1	T	165	ASN
1	T	168	THR
1	T	234	THR
1	T	237	LEU
1	T	640	ARG
1	U	96	LEU
1	U	116	ILE
1	U	165	ASN
1	U	168	THR
1	U	234	THR
1	U	237	LEU
1	U	640	ARG
1	V	96	LEU
1	V	116	ILE
1	V	165	ASN
1	V	168	THR
1	V	234	THR
1	V	237	LEU
1	V	640	ARG
1	W	96	LEU
1	W	116	ILE
1	W	165	ASN
1	W	168	THR
1	W	234	THR
1	W	237	LEU
1	W	640	ARG
1	X	96	LEU
1	X	116	ILE
1	X	165	ASN
1	X	168	THR
1	X	234	THR
1	X	237	LEU
1	X	640	ARG
1	Y	96	LEU
1	Y	116	ILE
1	Y	165	ASN
1	Y	168	THR
1	Y	234	THR
1	Y	237	LEU
1	Y	640	ARG
1	Z	96	LEU
1	Z	116	ILE

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Mol	Chain	Res	Type
1	Z	165	ASN
1	Z	168	THR
1	Z	234	THR
1	Z	237	LEU
1	Z	640	ARG
1	a	96	LEU
1	a	116	ILE
1	a	165	ASN
1	a	168	THR
1	a	234	THR
1	a	237	LEU
1	a	640	ARG
1	b	96	LEU
1	b	116	ILE
1	b	165	ASN
1	b	168	THR
1	b	234	THR
1	b	237	LEU
1	b	640	ARG
1	c	96	LEU
1	c	116	ILE
1	c	165	ASN
1	c	168	THR
1	c	234	THR
1	c	237	LEU
1	c	640	ARG
1	d	96	LEU
1	d	116	ILE
1	d	165	ASN
1	d	168	THR
1	d	234	THR
1	d	237	LEU
1	d	640	ARG
1	e	96	LEU
1	e	116	ILE
1	e	165	ASN
1	e	168	THR
1	e	234	THR
1	e	237	LEU
1	e	640	ARG
1	f	96	LEU
1	f	116	ILE

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Mol	Chain	Res	Type
1	f	165	ASN
1	f	168	THR
1	f	234	THR
1	f	237	LEU
1	f	640	ARG
1	g	96	LEU
1	g	116	ILE
1	g	165	ASN
1	g	168	THR
1	g	234	THR
1	g	237	LEU
1	g	640	ARG
1	h	96	LEU
1	h	116	ILE
1	h	165	ASN
1	h	168	THR
1	h	234	THR
1	h	237	LEU
1	h	640	ARG
1	i	96	LEU
1	i	116	ILE
1	i	165	ASN
1	i	168	THR
1	i	234	THR
1	i	237	LEU
1	i	640	ARG
1	j	96	LEU
1	j	116	ILE
1	j	165	ASN
1	j	168	THR
1	j	234	THR
1	j	237	LEU
1	j	640	ARG
1	k	96	LEU
1	k	116	ILE
1	k	165	ASN
1	k	168	THR
1	k	234	THR
1	k	237	LEU
1	k	640	ARG
1	l	96	LEU
1	l	116	ILE

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Mol	Chain	Res	Type
1	l	165	ASN
1	l	168	THR
1	l	234	THR
1	l	237	LEU
1	l	640	ARG
1	m	96	LEU
1	m	116	ILE
1	m	165	ASN
1	m	168	THR
1	m	234	THR
1	m	237	LEU
1	m	640	ARG
1	n	96	LEU
1	n	116	ILE
1	n	165	ASN
1	n	168	THR
1	n	234	THR
1	n	237	LEU
1	n	640	ARG
1	o	96	LEU
1	o	116	ILE
1	o	165	ASN
1	o	168	THR
1	o	234	THR
1	o	237	LEU
1	o	640	ARG
1	p	96	LEU
1	p	116	ILE
1	p	165	ASN
1	p	168	THR
1	p	234	THR
1	p	237	LEU
1	p	640	ARG
1	q	96	LEU
1	q	116	ILE
1	q	165	ASN
1	q	168	THR
1	q	234	THR
1	q	237	LEU
1	q	640	ARG
1	r	96	LEU
1	r	116	ILE

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Mol	Chain	Res	Type
1	r	165	ASN
1	r	168	THR
1	r	234	THR
1	r	237	LEU
1	r	640	ARG
1	s	96	LEU
1	s	116	ILE
1	s	165	ASN
1	s	168	THR
1	s	234	THR
1	s	237	LEU
1	s	640	ARG
1	t	96	LEU
1	t	116	ILE
1	t	165	ASN
1	t	168	THR
1	t	234	THR
1	t	237	LEU
1	t	640	ARG
1	u	96	LEU
1	u	116	ILE
1	u	165	ASN
1	u	168	THR
1	u	234	THR
1	u	237	LEU
1	u	640	ARG
1	v	96	LEU
1	v	116	ILE
1	v	165	ASN
1	v	168	THR
1	v	234	THR
1	v	237	LEU
1	v	640	ARG
1	w	96	LEU
1	w	116	ILE
1	w	165	ASN
1	w	168	THR
1	w	234	THR
1	w	237	LEU
1	w	640	ARG
1	x	96	LEU
1	x	116	ILE

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Mol	Chain	Res	Type
1	x	165	ASN
1	x	168	THR
1	x	234	THR
1	x	237	LEU
1	x	640	ARG
1	y	96	LEU
1	y	116	ILE
1	y	165	ASN
1	y	168	THR
1	y	234	THR
1	y	237	LEU
1	y	640	ARG
1	z	96	LEU
1	z	116	ILE
1	z	165	ASN
1	z	168	THR
1	z	234	THR
1	z	237	LEU
1	z	640	ARG
1	1	96	LEU
1	1	116	ILE
1	1	165	ASN
1	1	168	THR
1	1	234	THR
1	1	237	LEU
1	1	640	ARG
1	2	96	LEU
1	2	116	ILE
1	2	165	ASN
1	2	168	THR
1	2	234	THR
1	2	237	LEU
1	2	640	ARG
1	3	96	LEU
1	3	116	ILE
1	3	165	ASN
1	3	168	THR
1	3	234	THR
1	3	237	LEU
1	3	640	ARG
1	4	96	LEU
1	4	116	ILE

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Mol	Chain	Res	Type
1	4	165	ASN
1	4	168	THR
1	4	234	THR
1	4	237	LEU
1	4	640	ARG
1	5	96	LEU
1	5	116	ILE
1	5	165	ASN
1	5	168	THR
1	5	234	THR
1	5	237	LEU
1	5	640	ARG
1	6	96	LEU
1	6	116	ILE
1	6	165	ASN
1	6	168	THR
1	6	234	THR
1	6	237	LEU
1	6	640	ARG
1	7	96	LEU
1	7	116	ILE
1	7	165	ASN
1	7	168	THR
1	7	234	THR
1	7	237	LEU
1	7	640	ARG
1	8	96	LEU
1	8	116	ILE
1	8	165	ASN
1	8	168	THR
1	8	234	THR
1	8	237	LEU
1	8	640	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (955) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	71	ASN
1	A	92	HIS
1	A	97	ASN
1	A	173	ASN
1	A	218	HIS

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Mol	Chain	Res	Type
1	A	243	GLN
1	A	329	GLN
1	A	336	HIS
1	A	360	GLN
1	A	395	HIS
1	A	399	ASN
1	A	483	ASN
1	A	543	ASN
1	A	544	ASN
1	A	556	GLN
1	A	574	ASN
1	A	637	GLN
1	B	71	ASN
1	B	97	ASN
1	B	173	ASN
1	B	218	HIS
1	B	243	GLN
1	B	336	HIS
1	B	360	GLN
1	B	395	HIS
1	B	399	ASN
1	B	543	ASN
1	B	544	ASN
1	B	556	GLN
1	B	637	GLN
1	C	71	ASN
1	C	97	ASN
1	C	152	ASN
1	C	173	ASN
1	C	218	HIS
1	C	243	GLN
1	C	336	HIS
1	C	360	GLN
1	C	395	HIS
1	C	399	ASN
1	C	543	ASN
1	C	544	ASN
1	C	556	GLN
1	C	574	ASN
1	C	631	ASN
1	C	637	GLN
1	D	47	ASN

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Mol	Chain	Res	Type
1	D	71	ASN
1	D	92	HIS
1	D	97	ASN
1	D	152	ASN
1	D	173	ASN
1	D	218	HIS
1	D	243	GLN
1	D	336	HIS
1	D	360	GLN
1	D	395	HIS
1	D	399	ASN
1	D	543	ASN
1	D	544	ASN
1	D	556	GLN
1	D	574	ASN
1	D	631	ASN
1	D	637	GLN
1	E	71	ASN
1	E	97	ASN
1	E	173	ASN
1	E	218	HIS
1	E	243	GLN
1	E	336	HIS
1	E	360	GLN
1	E	395	HIS
1	E	483	ASN
1	E	543	ASN
1	E	544	ASN
1	E	556	GLN
1	E	637	GLN
1	F	71	ASN
1	F	92	HIS
1	F	97	ASN
1	F	173	ASN
1	F	218	HIS
1	F	243	GLN
1	F	336	HIS
1	F	360	GLN
1	F	395	HIS
1	F	483	ASN
1	F	543	ASN
1	F	544	ASN

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Mol	Chain	Res	Type
1	F	556	GLN
1	F	574	ASN
1	F	624	GLN
1	F	631	ASN
1	F	637	GLN
1	G	71	ASN
1	G	97	ASN
1	G	152	ASN
1	G	173	ASN
1	G	218	HIS
1	G	243	GLN
1	G	336	HIS
1	G	360	GLN
1	G	395	HIS
1	G	399	ASN
1	G	483	ASN
1	G	543	ASN
1	G	544	ASN
1	G	556	GLN
1	G	574	ASN
1	G	631	ASN
1	G	637	GLN
1	H	71	ASN
1	H	97	ASN
1	H	152	ASN
1	H	173	ASN
1	H	218	HIS
1	H	243	GLN
1	H	336	HIS
1	H	360	GLN
1	H	395	HIS
1	H	399	ASN
1	H	483	ASN
1	H	543	ASN
1	H	544	ASN
1	H	556	GLN
1	H	574	ASN
1	H	631	ASN
1	H	637	GLN
1	I	71	ASN
1	I	92	HIS
1	I	97	ASN

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Mol	Chain	Res	Type
1	I	152	ASN
1	I	173	ASN
1	I	218	HIS
1	I	243	GLN
1	I	336	HIS
1	I	360	GLN
1	I	395	HIS
1	I	399	ASN
1	I	483	ASN
1	I	543	ASN
1	I	544	ASN
1	I	556	GLN
1	I	637	GLN
1	J	71	ASN
1	J	92	HIS
1	J	97	ASN
1	J	152	ASN
1	J	173	ASN
1	J	218	HIS
1	J	243	GLN
1	J	336	HIS
1	J	360	GLN
1	J	395	HIS
1	J	399	ASN
1	J	483	ASN
1	J	491	ASN
1	J	543	ASN
1	J	544	ASN
1	J	556	GLN
1	J	631	ASN
1	J	637	GLN
1	K	71	ASN
1	K	97	ASN
1	K	173	ASN
1	K	218	HIS
1	K	243	GLN
1	K	336	HIS
1	K	360	GLN
1	K	395	HIS
1	K	491	ASN
1	K	543	ASN
1	K	544	ASN

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Mol	Chain	Res	Type
1	K	556	GLN
1	K	574	ASN
1	K	637	GLN
1	L	47	ASN
1	L	71	ASN
1	L	92	HIS
1	L	97	ASN
1	L	152	ASN
1	L	173	ASN
1	L	218	HIS
1	L	243	GLN
1	L	336	HIS
1	L	360	GLN
1	L	395	HIS
1	L	543	ASN
1	L	544	ASN
1	L	556	GLN
1	L	574	ASN
1	L	631	ASN
1	L	637	GLN
1	M	71	ASN
1	M	92	HIS
1	M	97	ASN
1	M	173	ASN
1	M	218	HIS
1	M	243	GLN
1	M	336	HIS
1	M	360	GLN
1	M	395	HIS
1	M	483	ASN
1	M	543	ASN
1	M	544	ASN
1	M	556	GLN
1	M	574	ASN
1	M	637	GLN
1	N	47	ASN
1	N	71	ASN
1	N	92	HIS
1	N	97	ASN
1	N	152	ASN
1	N	173	ASN
1	N	218	HIS

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Mol	Chain	Res	Type
1	N	243	GLN
1	N	336	HIS
1	N	360	GLN
1	N	395	HIS
1	N	483	ASN
1	N	543	ASN
1	N	544	ASN
1	N	556	GLN
1	N	574	ASN
1	N	637	GLN
1	O	71	ASN
1	O	97	ASN
1	O	173	ASN
1	O	218	HIS
1	O	243	GLN
1	O	336	HIS
1	O	360	GLN
1	O	395	HIS
1	O	483	ASN
1	O	543	ASN
1	O	544	ASN
1	O	556	GLN
1	O	574	ASN
1	O	637	GLN
1	P	71	ASN
1	P	92	HIS
1	P	97	ASN
1	P	173	ASN
1	P	218	HIS
1	P	243	GLN
1	P	336	HIS
1	P	360	GLN
1	P	395	HIS
1	P	399	ASN
1	P	543	ASN
1	P	544	ASN
1	P	556	GLN
1	P	624	GLN
1	P	637	GLN
1	Q	71	ASN
1	Q	97	ASN
1	Q	173	ASN

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Mol	Chain	Res	Type
1	Q	218	HIS
1	Q	243	GLN
1	Q	336	HIS
1	Q	360	GLN
1	Q	395	HIS
1	Q	483	ASN
1	Q	543	ASN
1	Q	544	ASN
1	Q	556	GLN
1	Q	637	GLN
1	R	71	ASN
1	R	97	ASN
1	R	173	ASN
1	R	218	HIS
1	R	243	GLN
1	R	336	HIS
1	R	360	GLN
1	R	395	HIS
1	R	399	ASN
1	R	483	ASN
1	R	543	ASN
1	R	544	ASN
1	R	556	GLN
1	R	574	ASN
1	R	624	GLN
1	R	631	ASN
1	R	637	GLN
1	S	71	ASN
1	S	97	ASN
1	S	152	ASN
1	S	173	ASN
1	S	218	HIS
1	S	243	GLN
1	S	336	HIS
1	S	360	GLN
1	S	395	HIS
1	S	491	ASN
1	S	543	ASN
1	S	544	ASN
1	S	556	GLN
1	S	574	ASN
1	S	631	ASN

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Mol	Chain	Res	Type
1	S	637	GLN
1	T	71	ASN
1	T	97	ASN
1	T	173	ASN
1	T	218	HIS
1	T	243	GLN
1	T	336	HIS
1	T	360	GLN
1	T	395	HIS
1	T	399	ASN
1	T	483	ASN
1	T	516	GLN
1	T	543	ASN
1	T	544	ASN
1	T	556	GLN
1	T	574	ASN
1	T	637	GLN
1	U	71	ASN
1	U	82	ASN
1	U	92	HIS
1	U	97	ASN
1	U	173	ASN
1	U	218	HIS
1	U	243	GLN
1	U	336	HIS
1	U	360	GLN
1	U	395	HIS
1	U	483	ASN
1	U	543	ASN
1	U	544	ASN
1	U	556	GLN
1	U	574	ASN
1	U	637	GLN
1	V	47	ASN
1	V	71	ASN
1	V	97	ASN
1	V	152	ASN
1	V	173	ASN
1	V	218	HIS
1	V	243	GLN
1	V	336	HIS
1	V	360	GLN

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Mol	Chain	Res	Type
1	V	395	HIS
1	V	399	ASN
1	V	543	ASN
1	V	544	ASN
1	V	556	GLN
1	V	631	ASN
1	V	637	GLN
1	W	71	ASN
1	W	92	HIS
1	W	97	ASN
1	W	152	ASN
1	W	173	ASN
1	W	218	HIS
1	W	243	GLN
1	W	336	HIS
1	W	360	GLN
1	W	395	HIS
1	W	483	ASN
1	W	543	ASN
1	W	544	ASN
1	W	556	GLN
1	W	637	GLN
1	X	71	ASN
1	X	97	ASN
1	X	173	ASN
1	X	218	HIS
1	X	243	GLN
1	X	329	GLN
1	X	336	HIS
1	X	360	GLN
1	X	395	HIS
1	X	483	ASN
1	X	543	ASN
1	X	544	ASN
1	X	556	GLN
1	X	574	ASN
1	X	637	GLN
1	Y	71	ASN
1	Y	92	HIS
1	Y	97	ASN
1	Y	173	ASN
1	Y	218	HIS

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Mol	Chain	Res	Type
1	Y	243	GLN
1	Y	336	HIS
1	Y	360	GLN
1	Y	395	HIS
1	Y	399	ASN
1	Y	483	ASN
1	Y	543	ASN
1	Y	544	ASN
1	Y	556	GLN
1	Y	574	ASN
1	Y	631	ASN
1	Y	637	GLN
1	Z	71	ASN
1	Z	97	ASN
1	Z	173	ASN
1	Z	218	HIS
1	Z	243	GLN
1	Z	336	HIS
1	Z	360	GLN
1	Z	395	HIS
1	Z	399	ASN
1	Z	483	ASN
1	Z	543	ASN
1	Z	544	ASN
1	Z	556	GLN
1	Z	574	ASN
1	Z	631	ASN
1	Z	637	GLN
1	a	71	ASN
1	a	97	ASN
1	a	173	ASN
1	a	218	HIS
1	a	243	GLN
1	a	336	HIS
1	a	360	GLN
1	a	395	HIS
1	a	399	ASN
1	a	543	ASN
1	a	544	ASN
1	a	556	GLN
1	a	637	GLN
1	b	47	ASN

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Mol	Chain	Res	Type
1	b	71	ASN
1	b	92	HIS
1	b	97	ASN
1	b	152	ASN
1	b	173	ASN
1	b	218	HIS
1	b	243	GLN
1	b	336	HIS
1	b	360	GLN
1	b	395	HIS
1	b	543	ASN
1	b	544	ASN
1	b	556	GLN
1	b	574	ASN
1	b	637	GLN
1	c	71	ASN
1	c	92	HIS
1	c	97	ASN
1	c	173	ASN
1	c	218	HIS
1	c	243	GLN
1	c	336	HIS
1	c	360	GLN
1	c	395	HIS
1	c	399	ASN
1	c	483	ASN
1	c	543	ASN
1	c	544	ASN
1	c	556	GLN
1	c	631	ASN
1	c	637	GLN
1	d	71	ASN
1	d	97	ASN
1	d	152	ASN
1	d	173	ASN
1	d	218	HIS
1	d	243	GLN
1	d	336	HIS
1	d	360	GLN
1	d	395	HIS
1	d	399	ASN
1	d	483	ASN

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Mol	Chain	Res	Type
1	d	491	ASN
1	d	543	ASN
1	d	544	ASN
1	d	556	GLN
1	d	574	ASN
1	d	637	GLN
1	e	71	ASN
1	e	92	HIS
1	e	97	ASN
1	e	173	ASN
1	e	218	HIS
1	e	243	GLN
1	e	336	HIS
1	e	360	GLN
1	e	395	HIS
1	e	399	ASN
1	e	483	ASN
1	e	543	ASN
1	e	544	ASN
1	e	556	GLN
1	e	631	ASN
1	e	637	GLN
1	f	47	ASN
1	f	71	ASN
1	f	92	HIS
1	f	97	ASN
1	f	173	ASN
1	f	218	HIS
1	f	243	GLN
1	f	336	HIS
1	f	360	GLN
1	f	395	HIS
1	f	543	ASN
1	f	544	ASN
1	f	556	GLN
1	f	574	ASN
1	f	637	GLN
1	g	71	ASN
1	g	97	ASN
1	g	152	ASN
1	g	173	ASN
1	g	218	HIS

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Mol	Chain	Res	Type
1	g	243	GLN
1	g	336	HIS
1	g	360	GLN
1	g	395	HIS
1	g	399	ASN
1	g	483	ASN
1	g	543	ASN
1	g	544	ASN
1	g	556	GLN
1	g	574	ASN
1	g	631	ASN
1	g	637	GLN
1	h	71	ASN
1	h	92	HIS
1	h	97	ASN
1	h	173	ASN
1	h	218	HIS
1	h	243	GLN
1	h	329	GLN
1	h	336	HIS
1	h	360	GLN
1	h	395	HIS
1	h	399	ASN
1	h	483	ASN
1	h	543	ASN
1	h	544	ASN
1	h	556	GLN
1	h	574	ASN
1	h	631	ASN
1	h	637	GLN
1	i	71	ASN
1	i	97	ASN
1	i	152	ASN
1	i	173	ASN
1	i	218	HIS
1	i	243	GLN
1	i	336	HIS
1	i	360	GLN
1	i	395	HIS
1	i	399	ASN
1	i	483	ASN
1	i	543	ASN

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Mol	Chain	Res	Type
1	i	544	ASN
1	i	556	GLN
1	i	574	ASN
1	i	637	GLN
1	j	71	ASN
1	j	97	ASN
1	j	173	ASN
1	j	218	HIS
1	j	243	GLN
1	j	336	HIS
1	j	360	GLN
1	j	395	HIS
1	j	399	ASN
1	j	483	ASN
1	j	543	ASN
1	j	544	ASN
1	j	556	GLN
1	j	637	GLN
1	k	47	ASN
1	k	71	ASN
1	k	92	HIS
1	k	97	ASN
1	k	173	ASN
1	k	218	HIS
1	k	243	GLN
1	k	336	HIS
1	k	360	GLN
1	k	395	HIS
1	k	399	ASN
1	k	483	ASN
1	k	543	ASN
1	k	544	ASN
1	k	556	GLN
1	k	574	ASN
1	k	631	ASN
1	k	637	GLN
1	l	71	ASN
1	l	97	ASN
1	l	173	ASN
1	l	218	HIS
1	l	243	GLN
1	l	336	HIS

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Mol	Chain	Res	Type
1	l	360	GLN
1	l	395	HIS
1	l	483	ASN
1	l	543	ASN
1	l	544	ASN
1	l	556	GLN
1	l	574	ASN
1	l	637	GLN
1	m	71	ASN
1	m	97	ASN
1	m	173	ASN
1	m	218	HIS
1	m	243	GLN
1	m	336	HIS
1	m	360	GLN
1	m	395	HIS
1	m	399	ASN
1	m	543	ASN
1	m	544	ASN
1	m	556	GLN
1	m	574	ASN
1	m	631	ASN
1	m	637	GLN
1	n	71	ASN
1	n	97	ASN
1	n	152	ASN
1	n	173	ASN
1	n	218	HIS
1	n	243	GLN
1	n	336	HIS
1	n	360	GLN
1	n	395	HIS
1	n	399	ASN
1	n	483	ASN
1	n	491	ASN
1	n	543	ASN
1	n	544	ASN
1	n	556	GLN
1	n	574	ASN
1	n	637	GLN
1	o	71	ASN
1	o	97	ASN

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Mol	Chain	Res	Type
1	o	173	ASN
1	o	218	HIS
1	o	243	GLN
1	o	336	HIS
1	o	360	GLN
1	o	395	HIS
1	o	399	ASN
1	o	483	ASN
1	o	543	ASN
1	o	544	ASN
1	o	556	GLN
1	o	574	ASN
1	o	637	GLN
1	p	47	ASN
1	p	71	ASN
1	p	92	HIS
1	p	97	ASN
1	p	152	ASN
1	p	173	ASN
1	p	218	HIS
1	p	243	GLN
1	p	336	HIS
1	p	360	GLN
1	p	395	HIS
1	p	483	ASN
1	p	543	ASN
1	p	544	ASN
1	p	556	GLN
1	p	631	ASN
1	p	637	GLN
1	q	71	ASN
1	q	97	ASN
1	q	173	ASN
1	q	218	HIS
1	q	243	GLN
1	q	336	HIS
1	q	360	GLN
1	q	395	HIS
1	q	399	ASN
1	q	483	ASN
1	q	543	ASN
1	q	544	ASN

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Mol	Chain	Res	Type
1	q	556	GLN
1	q	574	ASN
1	q	637	GLN
1	r	71	ASN
1	r	97	ASN
1	r	152	ASN
1	r	173	ASN
1	r	218	HIS
1	r	243	GLN
1	r	336	HIS
1	r	360	GLN
1	r	395	HIS
1	r	399	ASN
1	r	483	ASN
1	r	491	ASN
1	r	543	ASN
1	r	544	ASN
1	r	556	GLN
1	r	574	ASN
1	r	637	GLN
1	s	71	ASN
1	s	82	ASN
1	s	92	HIS
1	s	97	ASN
1	s	173	ASN
1	s	218	HIS
1	s	243	GLN
1	s	336	HIS
1	s	360	GLN
1	s	395	HIS
1	s	483	ASN
1	s	543	ASN
1	s	544	ASN
1	s	556	GLN
1	s	574	ASN
1	s	637	GLN
1	t	71	ASN
1	t	97	ASN
1	t	152	ASN
1	t	173	ASN
1	t	218	HIS
1	t	243	GLN

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Mol	Chain	Res	Type
1	t	336	HIS
1	t	360	GLN
1	t	395	HIS
1	t	399	ASN
1	t	483	ASN
1	t	543	ASN
1	t	544	ASN
1	t	556	GLN
1	t	574	ASN
1	t	631	ASN
1	t	637	GLN
1	u	71	ASN
1	u	92	HIS
1	u	97	ASN
1	u	152	ASN
1	u	173	ASN
1	u	218	HIS
1	u	243	GLN
1	u	329	GLN
1	u	336	HIS
1	u	360	GLN
1	u	395	HIS
1	u	399	ASN
1	u	483	ASN
1	u	543	ASN
1	u	544	ASN
1	u	556	GLN
1	u	637	GLN
1	v	71	ASN
1	v	92	HIS
1	v	97	ASN
1	v	173	ASN
1	v	218	HIS
1	v	243	GLN
1	v	329	GLN
1	v	336	HIS
1	v	360	GLN
1	v	395	HIS
1	v	399	ASN
1	v	483	ASN
1	v	543	ASN
1	v	544	ASN

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Mol	Chain	Res	Type
1	v	556	GLN
1	v	574	ASN
1	v	637	GLN
1	w	71	ASN
1	w	92	HIS
1	w	97	ASN
1	w	173	ASN
1	w	218	HIS
1	w	243	GLN
1	w	336	HIS
1	w	360	GLN
1	w	395	HIS
1	w	399	ASN
1	w	483	ASN
1	w	491	ASN
1	w	543	ASN
1	w	544	ASN
1	w	556	GLN
1	w	631	ASN
1	w	637	GLN
1	x	71	ASN
1	x	97	ASN
1	x	173	ASN
1	x	218	HIS
1	x	243	GLN
1	x	336	HIS
1	x	360	GLN
1	x	395	HIS
1	x	483	ASN
1	x	543	ASN
1	x	544	ASN
1	x	556	GLN
1	x	574	ASN
1	x	637	GLN
1	y	71	ASN
1	y	92	HIS
1	y	97	ASN
1	y	173	ASN
1	y	218	HIS
1	y	243	GLN
1	y	336	HIS
1	y	360	GLN

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Mol	Chain	Res	Type
1	y	395	HIS
1	y	543	ASN
1	y	544	ASN
1	y	556	GLN
1	y	624	GLN
1	y	631	ASN
1	y	637	GLN
1	z	47	ASN
1	z	71	ASN
1	z	92	HIS
1	z	97	ASN
1	z	152	ASN
1	z	173	ASN
1	z	218	HIS
1	z	243	GLN
1	z	336	HIS
1	z	360	GLN
1	z	395	HIS
1	z	543	ASN
1	z	544	ASN
1	z	556	GLN
1	z	574	ASN
1	z	631	ASN
1	z	637	GLN
1	1	71	ASN
1	1	97	ASN
1	1	173	ASN
1	1	218	HIS
1	1	243	GLN
1	1	336	HIS
1	1	360	GLN
1	1	395	HIS
1	1	399	ASN
1	1	543	ASN
1	1	544	ASN
1	1	556	GLN
1	1	574	ASN
1	1	637	GLN
1	2	71	ASN
1	2	92	HIS
1	2	97	ASN
1	2	152	ASN

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Mol	Chain	Res	Type
1	2	173	ASN
1	2	218	HIS
1	2	243	GLN
1	2	336	HIS
1	2	360	GLN
1	2	395	HIS
1	2	399	ASN
1	2	483	ASN
1	2	491	ASN
1	2	543	ASN
1	2	544	ASN
1	2	556	GLN
1	2	574	ASN
1	2	631	ASN
1	2	637	GLN
1	3	71	ASN
1	3	97	ASN
1	3	152	ASN
1	3	173	ASN
1	3	218	HIS
1	3	243	GLN
1	3	336	HIS
1	3	360	GLN
1	3	395	HIS
1	3	483	ASN
1	3	543	ASN
1	3	544	ASN
1	3	556	GLN
1	3	637	GLN
1	4	71	ASN
1	4	97	ASN
1	4	173	ASN
1	4	218	HIS
1	4	243	GLN
1	4	336	HIS
1	4	360	GLN
1	4	395	HIS
1	4	399	ASN
1	4	491	ASN
1	4	543	ASN
1	4	544	ASN
1	4	556	GLN

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Mol	Chain	Res	Type
1	4	574	ASN
1	4	637	GLN
1	5	71	ASN
1	5	97	ASN
1	5	152	ASN
1	5	173	ASN
1	5	218	HIS
1	5	243	GLN
1	5	336	HIS
1	5	360	GLN
1	5	395	HIS
1	5	399	ASN
1	5	483	ASN
1	5	543	ASN
1	5	544	ASN
1	5	556	GLN
1	5	574	ASN
1	5	631	ASN
1	5	637	GLN
1	6	71	ASN
1	6	92	HIS
1	6	97	ASN
1	6	152	ASN
1	6	173	ASN
1	6	218	HIS
1	6	243	GLN
1	6	336	HIS
1	6	360	GLN
1	6	395	HIS
1	6	483	ASN
1	6	543	ASN
1	6	544	ASN
1	6	556	GLN
1	6	637	GLN
1	7	71	ASN
1	7	97	ASN
1	7	173	ASN
1	7	218	HIS
1	7	243	GLN
1	7	336	HIS
1	7	360	GLN
1	7	395	HIS

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Mol	Chain	Res	Type
1	7	399	ASN
1	7	483	ASN
1	7	543	ASN
1	7	544	ASN
1	7	556	GLN
1	7	631	ASN
1	7	637	GLN
1	8	71	ASN
1	8	92	HIS
1	8	97	ASN
1	8	152	ASN
1	8	172	ASN
1	8	173	ASN
1	8	218	HIS
1	8	243	GLN
1	8	336	HIS
1	8	360	GLN
1	8	395	HIS
1	8	399	ASN
1	8	483	ASN
1	8	543	ASN
1	8	544	ASN
1	8	556	GLN
1	8	574	ASN
1	8	631	ASN
1	8	637	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

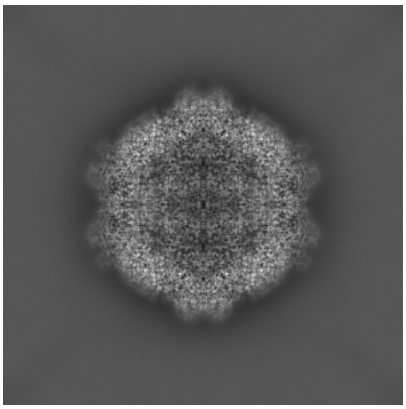
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-28514. These allow visual inspection of the internal detail of the map and identification of artifacts.

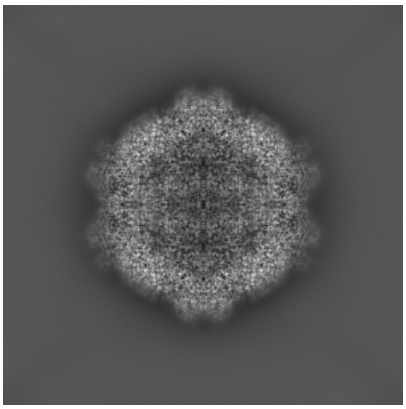
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

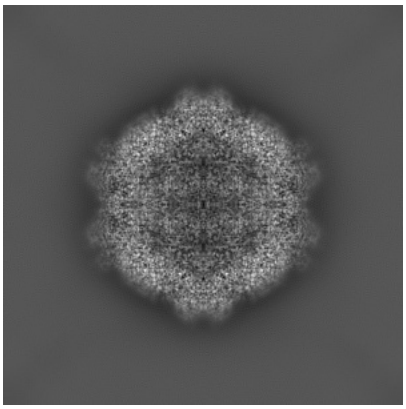
6.1.1 Primary map



X

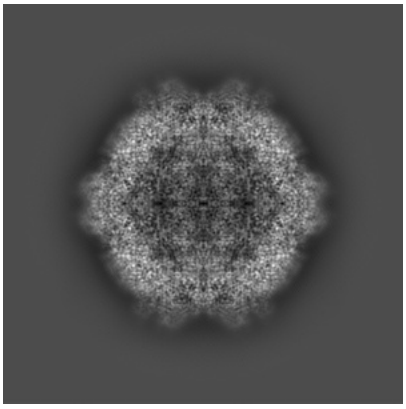


Y

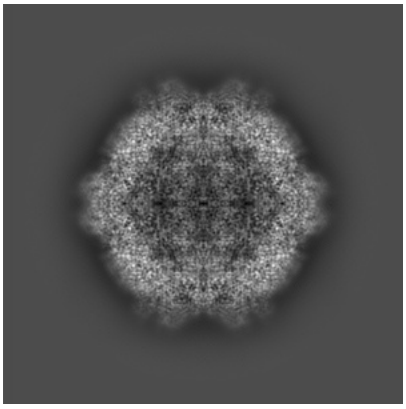


Z

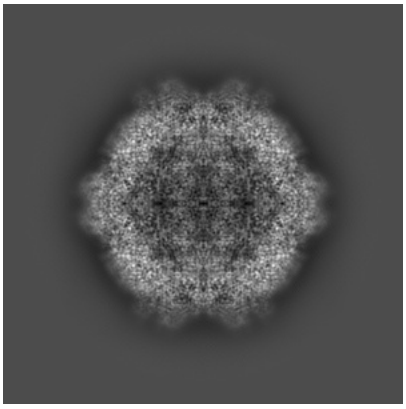
6.1.2 Raw map



X



Y

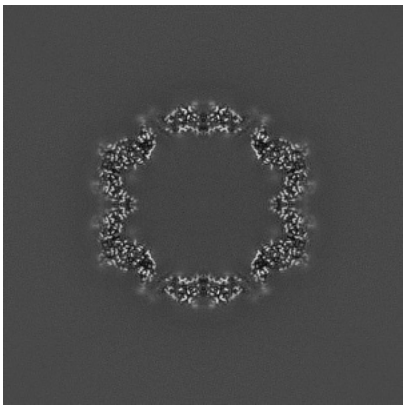


Z

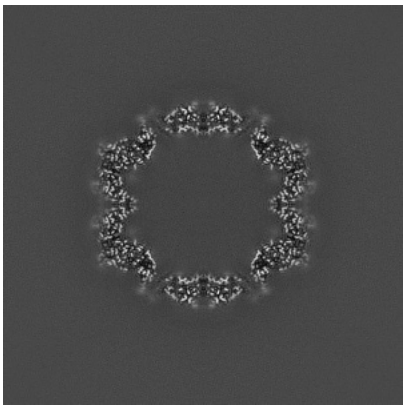
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

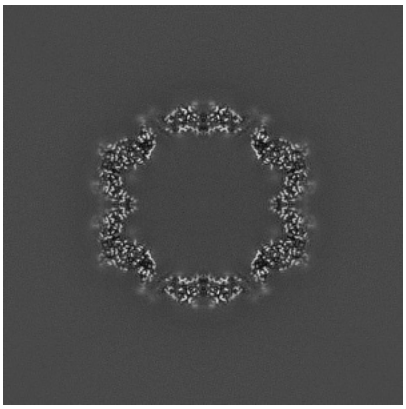
6.2.1 Primary map



X Index: 250

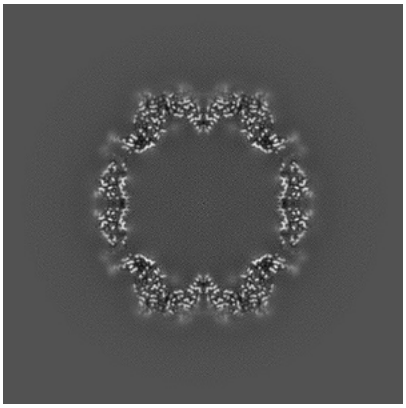


Y Index: 250

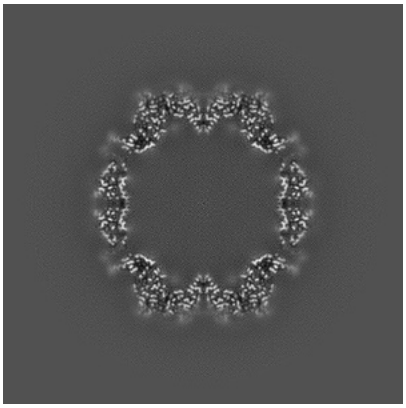


Z Index: 250

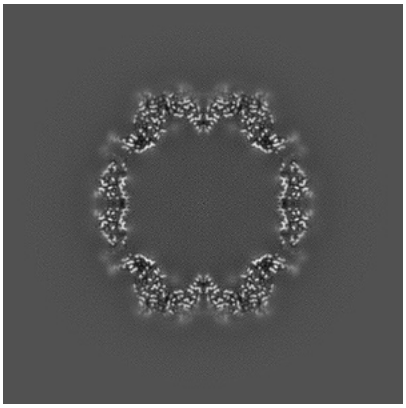
6.2.2 Raw map



X Index: 235



Y Index: 235

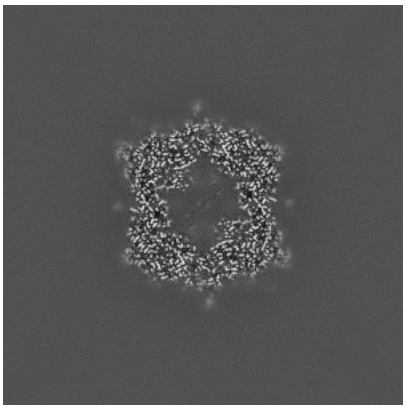


Z Index: 235

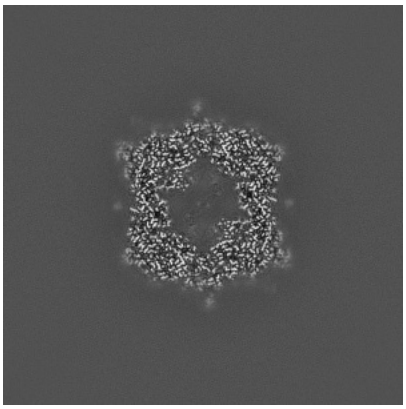
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

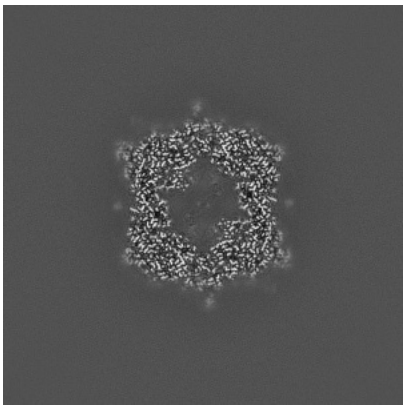
6.3.1 Primary map



X Index: 332

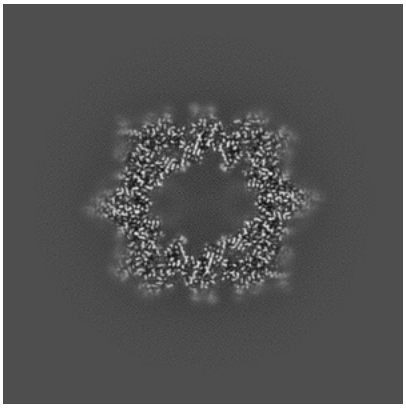


Y Index: 332

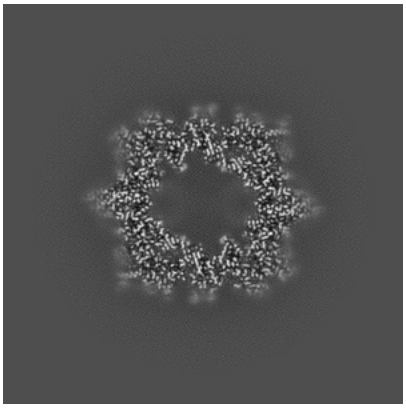


Z Index: 332

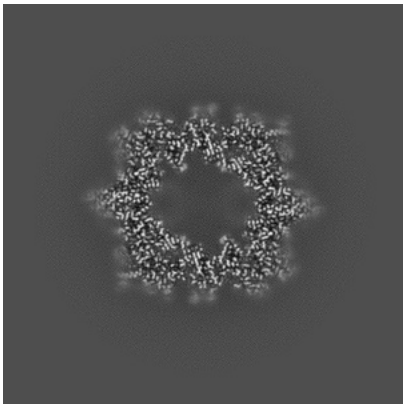
6.3.2 Raw map



X Index: 163



Y Index: 307

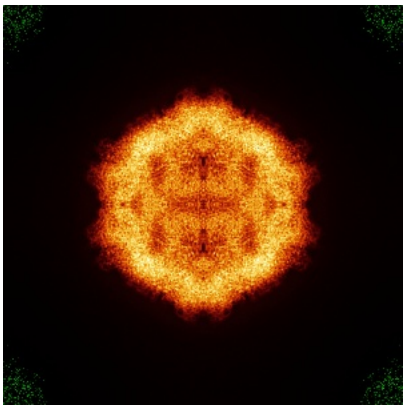


Z Index: 307

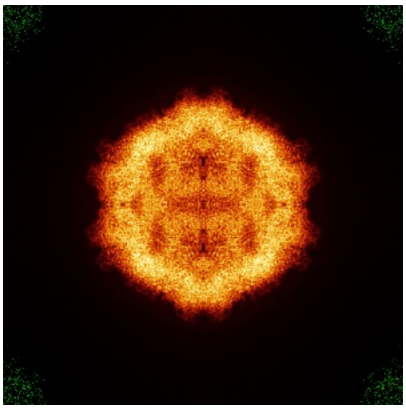
The images above show the largest variance slices of the map in three orthogonal directions.

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

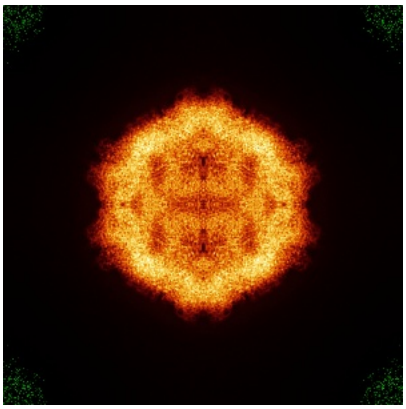
6.4.1 Primary map



X

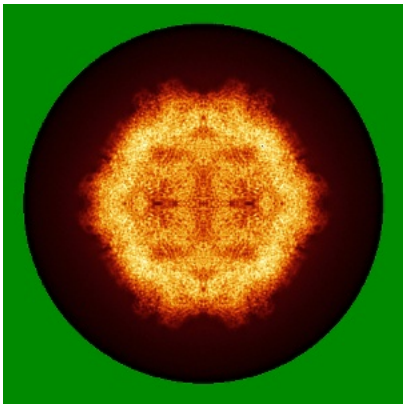


Y

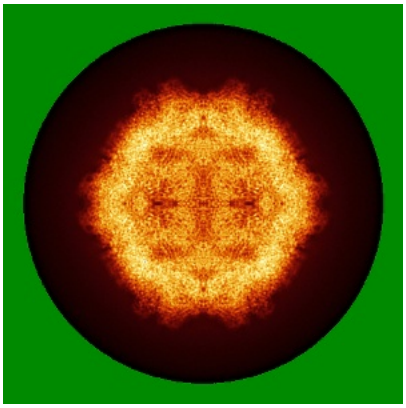


Z

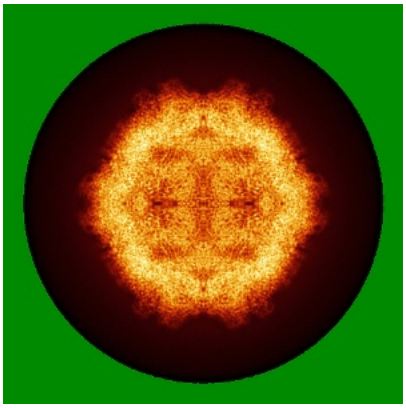
6.4.2 Raw map



X



Y

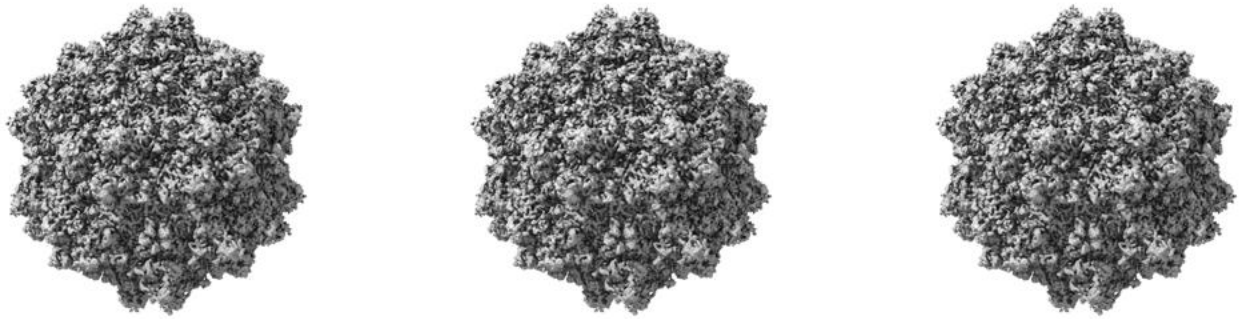


Z

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)

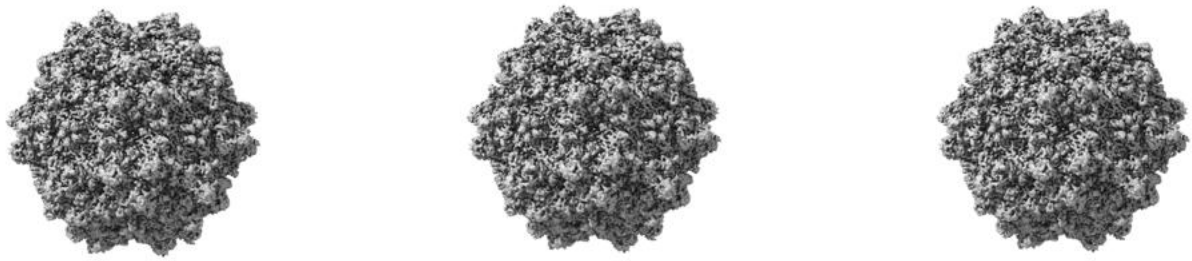
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 1.5. 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.

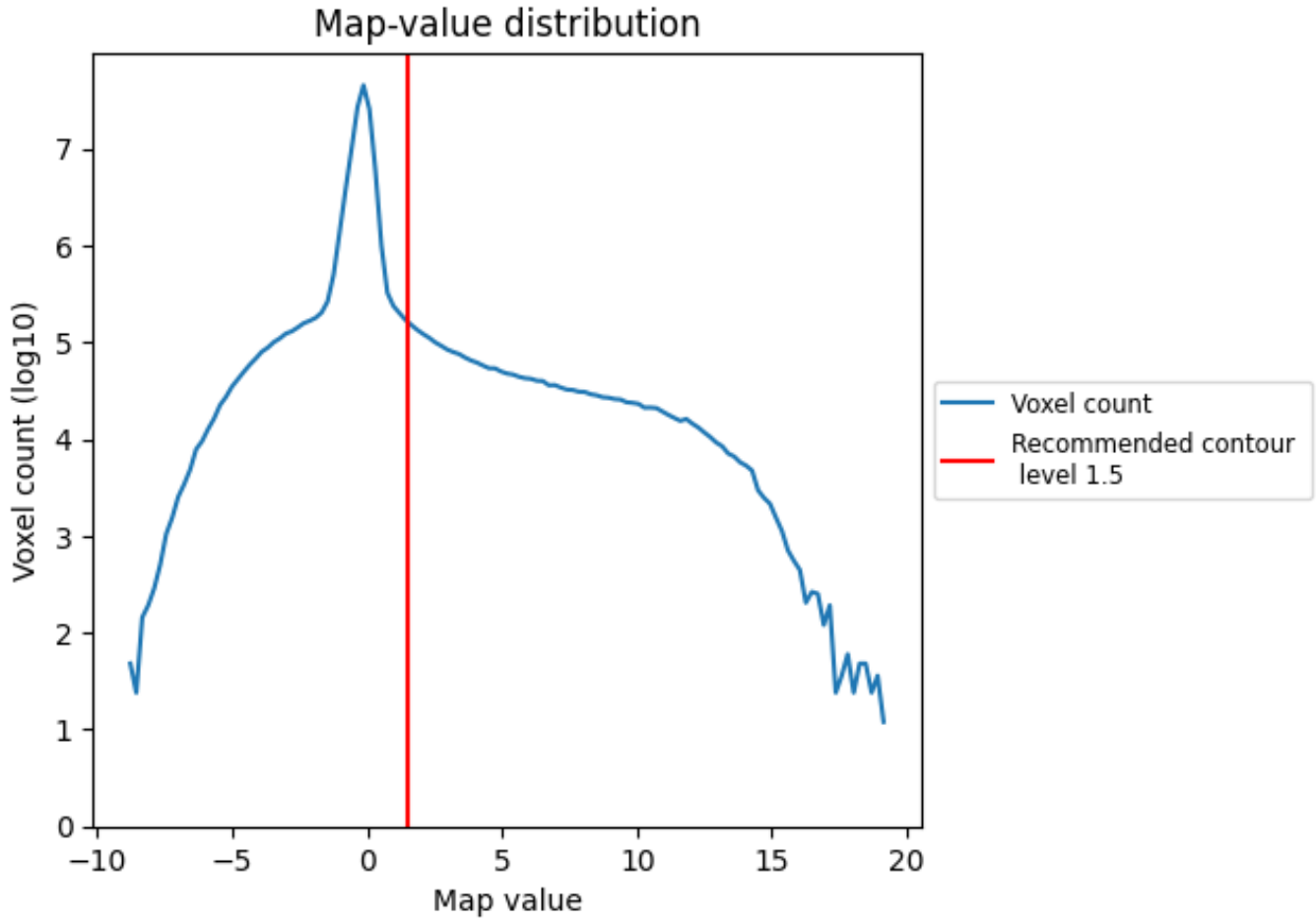
6.6 Mask visualisation (i)

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

7 Map analysis

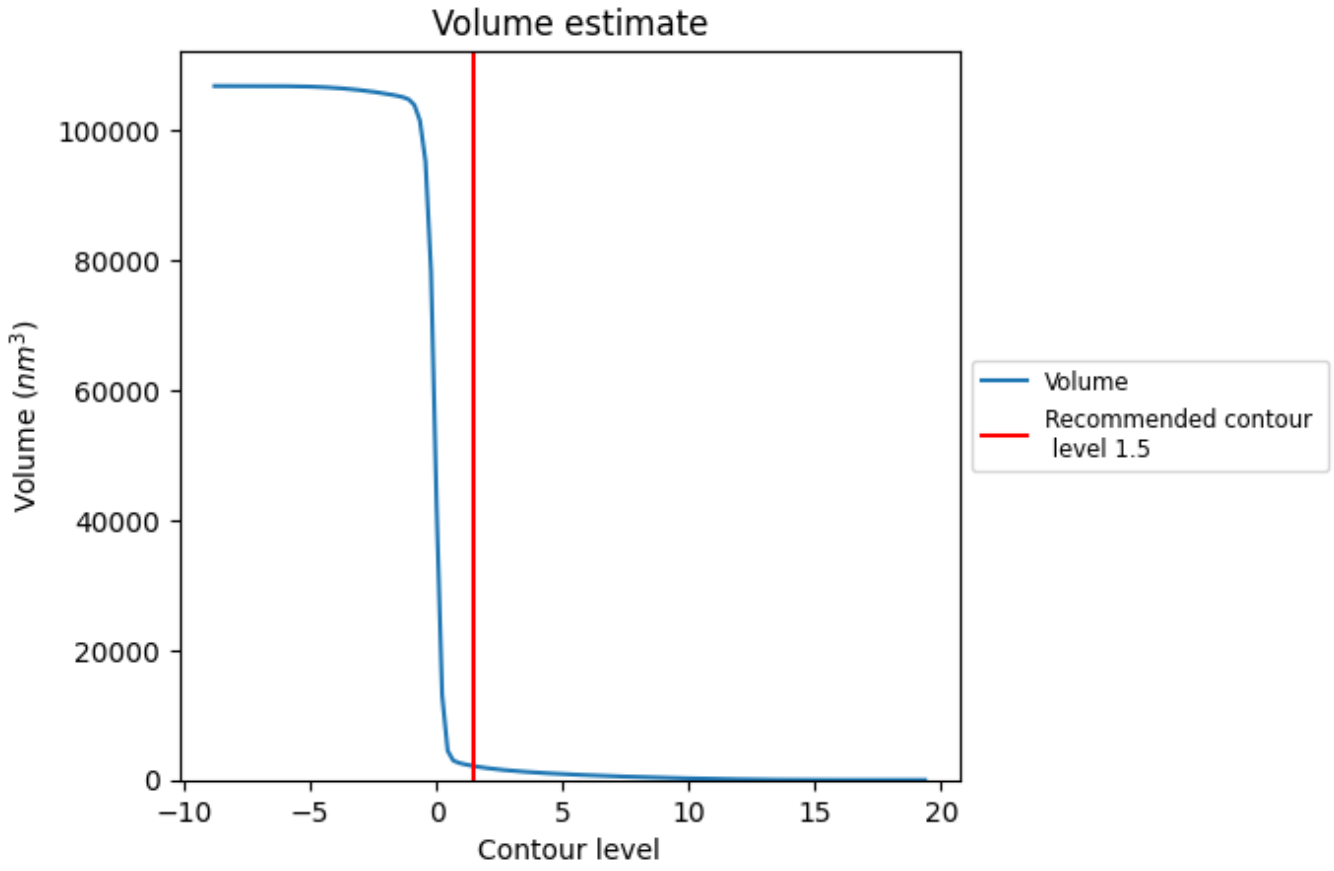
This section contains the results of statistical analysis of the map.

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.

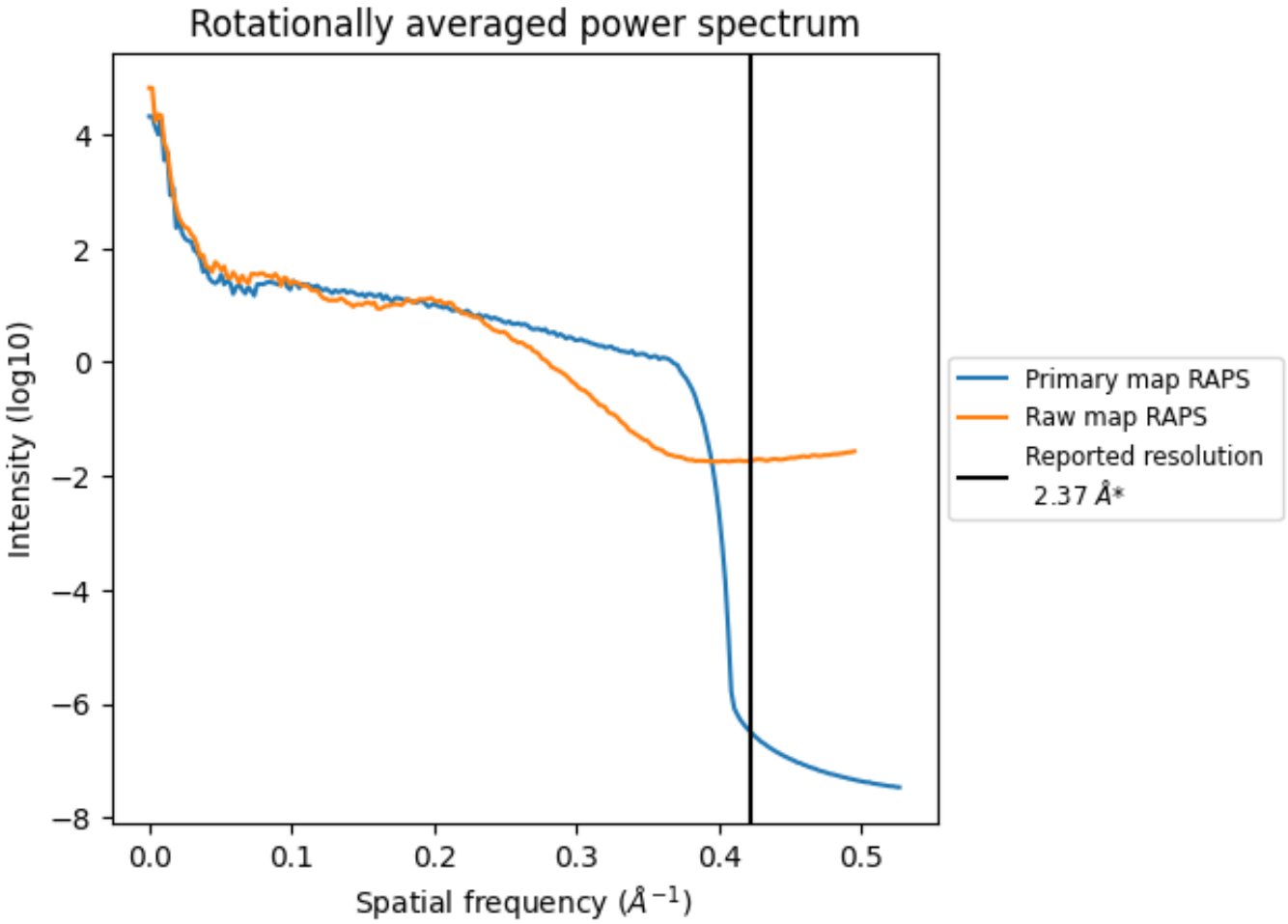
7.2 Volume estimate



The volume at the recommended contour level is 2129 nm^3; this corresponds to an approximate mass of 1923 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)

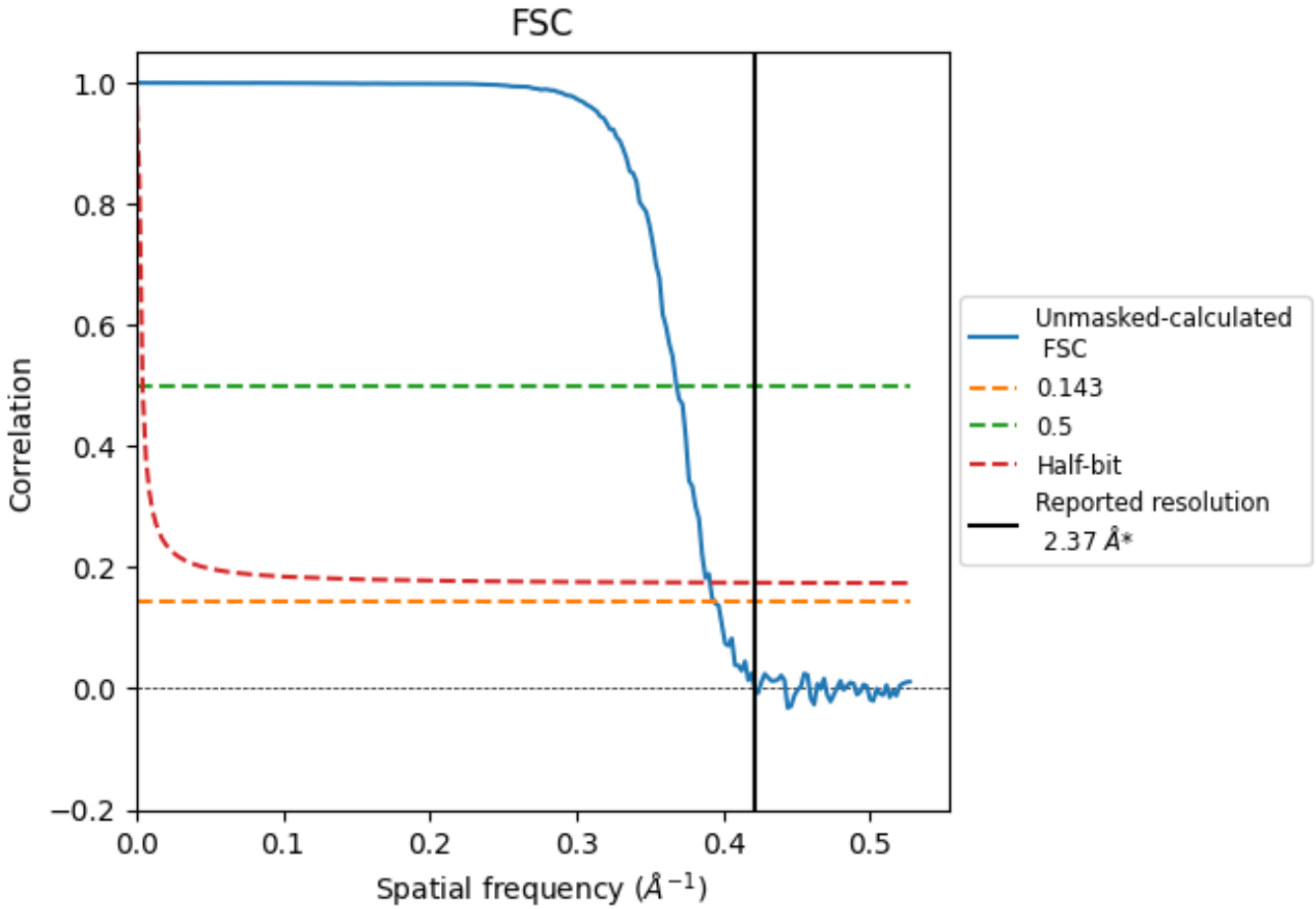


*Reported resolution corresponds to spatial frequency of 0.422 Å^{-1}

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 0.422 Å^{-1}

8.2 Resolution estimates (i)

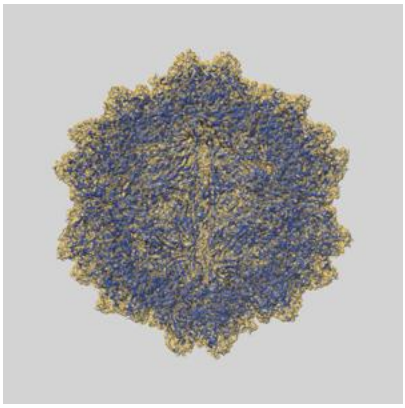
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.37	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.54	2.72	2.56

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

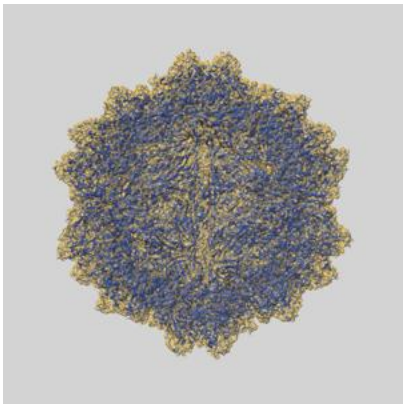
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-28514 and PDB model 8EP2. Per-residue inclusion information can be found in section 3 on page 10.

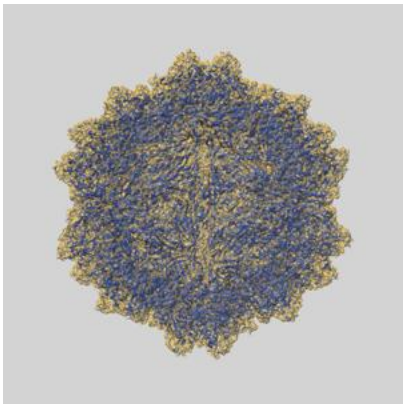
9.1 Map-model overlay



X



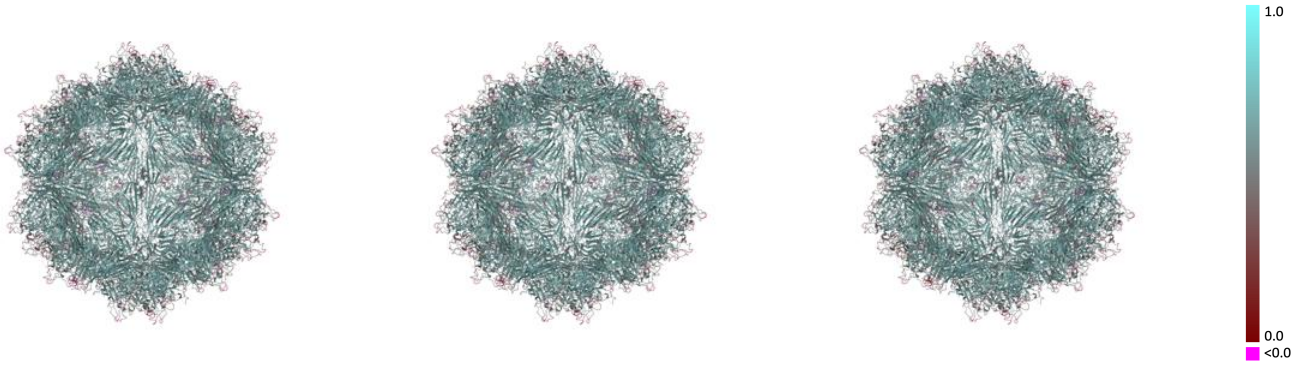
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.5 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.

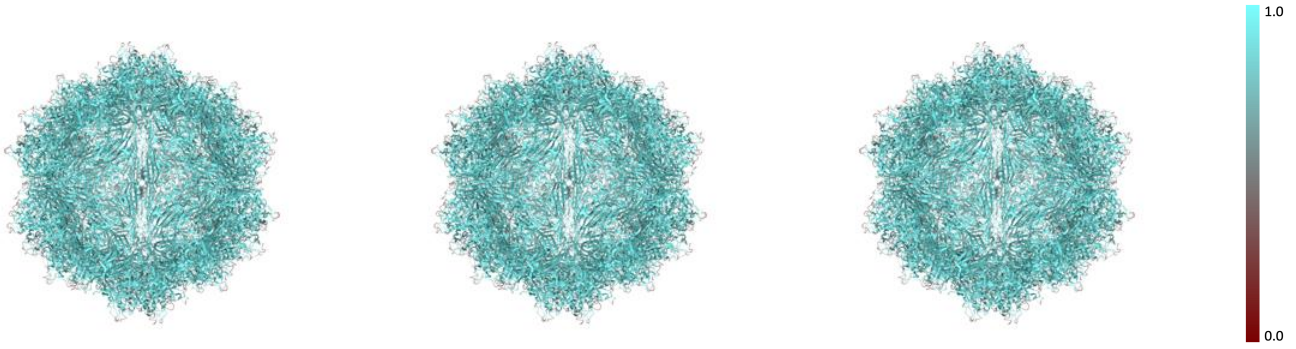
9.2 Q-score mapped to coordinate model (i)



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.

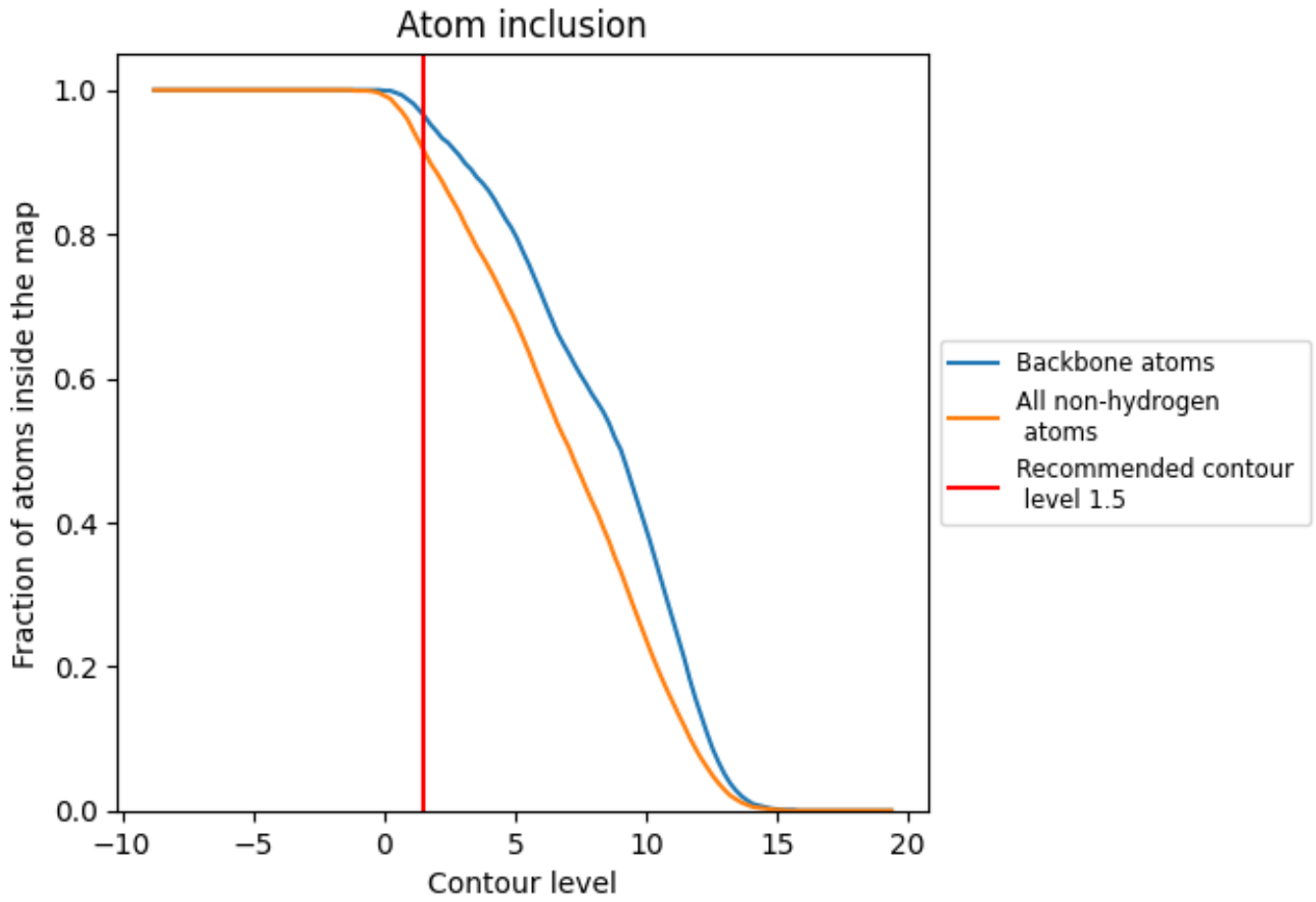
9.3 Atom inclusion mapped to coordinate model (i)



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 (1.5).

9.4 Atom inclusion (i)



At the recommended contour level, 96% of all backbone atoms, 92% 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 (1.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9170	0.5960
1	0.9180	0.5960
2	0.9180	0.5960
3	0.9160	0.5960
4	0.9160	0.5960
5	0.9180	0.5960
6	0.9180	0.5970
7	0.9180	0.5960
8	0.9170	0.5960
A	0.9160	0.5970
B	0.9180	0.5960
C	0.9160	0.5960
D	0.9180	0.5970
E	0.9170	0.5970
F	0.9160	0.5970
G	0.9170	0.5970
H	0.9180	0.5970
I	0.9160	0.5970
J	0.9180	0.5960
K	0.9160	0.5960
L	0.9180	0.5960
M	0.9170	0.5970
N	0.9180	0.5970
O	0.9170	0.5960
P	0.9180	0.5960
Q	0.9160	0.5960
R	0.9180	0.5970
S	0.9180	0.5970
T	0.9160	0.5970
U	0.9180	0.5960
V	0.9160	0.5960
W	0.9180	0.5970
X	0.9170	0.5970
Y	0.9180	0.5970
Z	0.9170	0.5960

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Chain	Atom inclusion	Q-score
a	0.9160	0.5960
b	0.9160	0.5970
c	0.9160	0.5970
d	0.9160	0.5970
e	0.9160	0.5970
f	0.9160	0.5960
g	0.9160	0.5970
h	0.9170	0.5960
i	0.9180	0.5970
j	0.9180	0.5960
k	0.9180	0.5970
l	0.9170	0.5960
m	0.9160	0.5960
n	0.9160	0.5970
o	0.9170	0.5960
p	0.9160	0.5960
q	0.9180	0.5960
r	0.9180	0.5960
s	0.9180	0.5960
t	0.9170	0.5960
u	0.9160	0.5960
v	0.9160	0.5960
w	0.9170	0.5970
x	0.9160	0.5960
y	0.9160	0.5970
z	0.9180	0.5960