Full wwPDB EM Validation Report ⓘ

May 13, 2025 – 11:50 AM EDT

PDB ID	:	7MTP / pdb_00007mtp
EMDB ID	:	EMD-23993
Title	:	Structure of the adeno-associated virus 9 capsid at pH 5.5
Authors	:	Penzes, J.J.; Chipman, P.; Bhattacharya, N.; Zeher, A.; Huang, R.; McKenna, R.; Agbandje-McKenna, M.
Deposited on	:	2021-05-13
Resolution	:	2.79 Å(reported)
Based on initial model	:	3UX1

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:

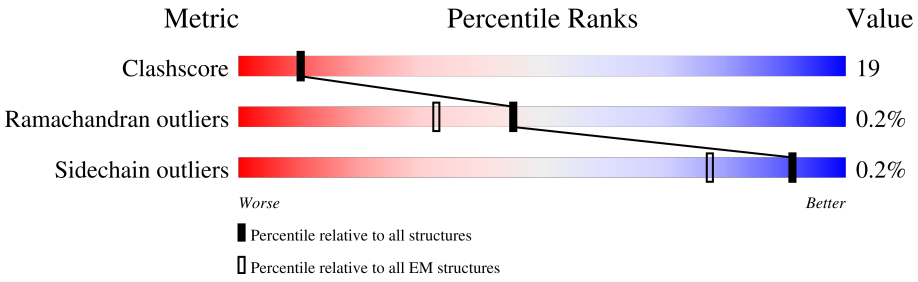
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (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 2.79 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	518	62% 37%
1	2	518	62% 37%
1	3	518	62% 37%
1	4	518	62% 37%
1	5	518	61% 38%
1	6	518	62% 37%
1	7	518	62% 37%
1	8	518	61% 38%

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Mol	Chain	Length	Quality of chain
1	A	518	62% 37%
1	B	518	62% 37%
1	C	518	62% 37%
1	D	518	62% 37%
1	E	518	61% 38%
1	F	518	61% 38%
1	G	518	61% 38%
1	H	518	61% 38%
1	I	518	61% 38%
1	J	518	62% 37%
1	K	518	62% 37%
1	L	518	62% 37%
1	M	518	61% 38%
1	N	518	62% 37%
1	O	518	61% 38%
1	P	518	62% 37%
1	Q	518	62% 37%
1	R	518	62% 37%
1	S	518	62% 37%
1	T	518	62% 37%
1	U	518	62% 37%
1	V	518	61% 38%
1	W	518	62% 37%
1	X	518	61% 38%
1	Y	518	61% 38%

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Mol	Chain	Length	Quality of chain
1	Z	518	61% 38%
1	a	518	62% 37%
1	b	518	62% 37%
1	c	518	62% 37%
1	d	518	61% 38%
1	e	518	62% 37%
1	f	518	61% 38%
1	g	518	61% 38%
1	h	518	61% 38%
1	i	518	61% 38%
1	j	518	61% 38%
1	k	518	61% 38%
1	l	518	62% 37%
1	m	518	62% 37%
1	n	518	62% 37%
1	o	518	62% 37%
1	p	518	62% 37%
1	q	518	62% 37%
1	r	518	61% 38%
1	s	518	61% 38%
1	t	518	61% 38%
1	u	518	62% 37%
1	v	518	62% 37%
1	w	518	62% 37%
1	x	518	63% 36%

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Mol	Chain	Length	Quality of chain
1	y	518	
1	z	518	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 247860 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	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	B	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	C	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	D	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	E	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	F	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	G	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	H	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	I	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	J	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	K	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	L	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	M	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	N	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	O	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	P	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	Q	518	Total 4131	C 2608	N 718	O 791	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	S	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	T	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	U	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	V	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	W	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	X	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	Y	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	Z	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	1	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	2	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	3	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	4	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	5	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	6	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	a	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	b	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	c	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	d	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	e	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	f	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	h	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	i	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	j	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	k	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	l	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	m	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	n	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	o	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	p	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	q	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	r	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	s	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	t	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	u	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	v	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	w	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	x	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	y	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	z	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		
1	7	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		

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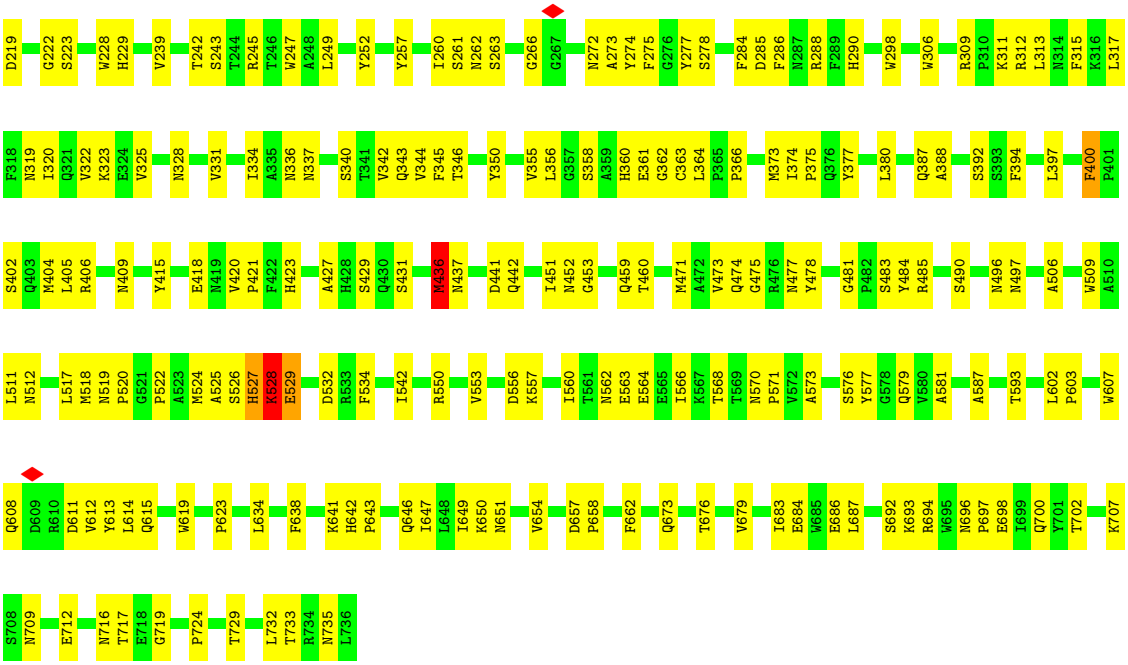
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		

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.

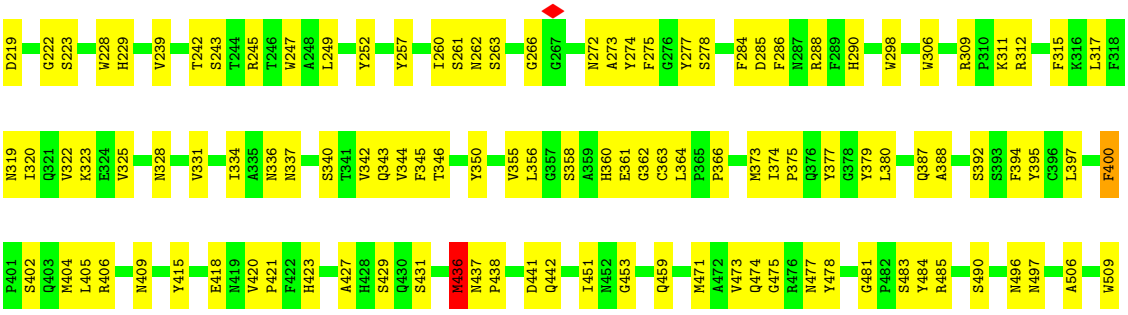
• Molecule 1: Capsid protein VP1

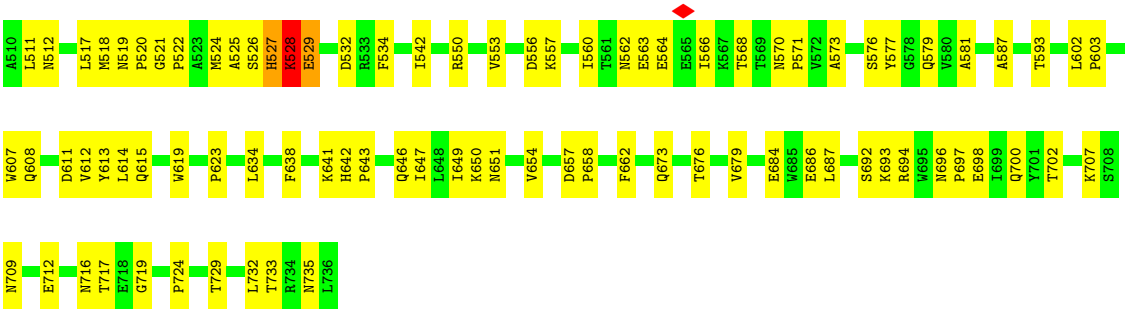
Chain A:



• Molecule 1: Capsid protein VP1

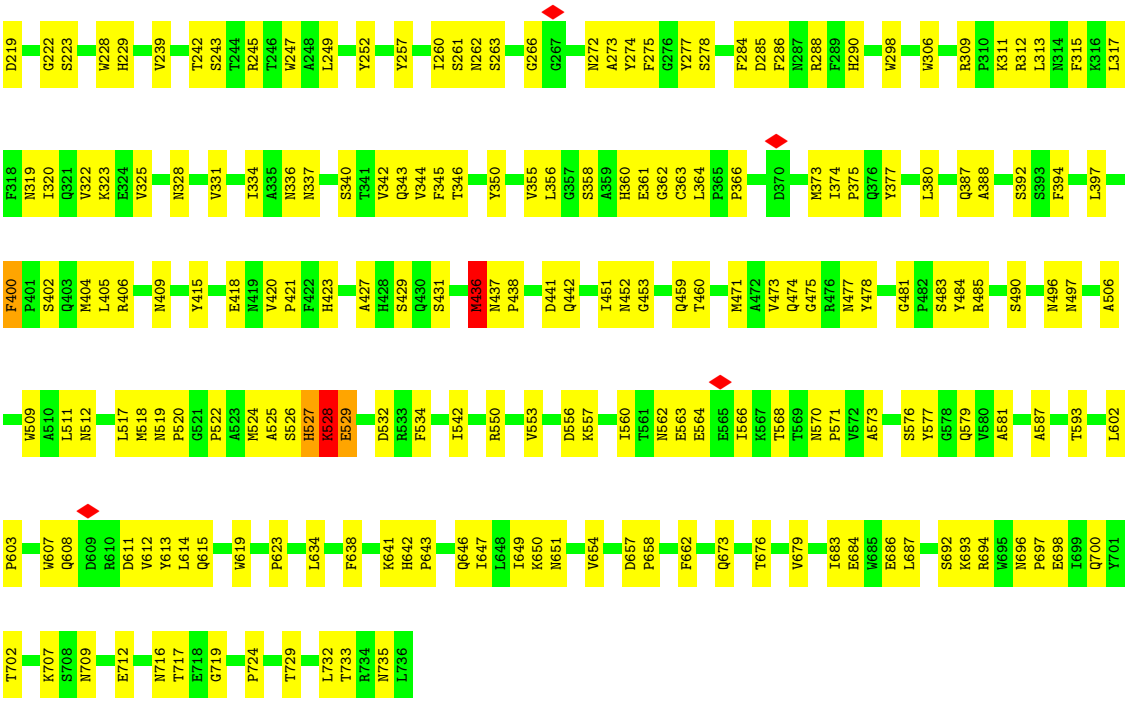
Chain B:





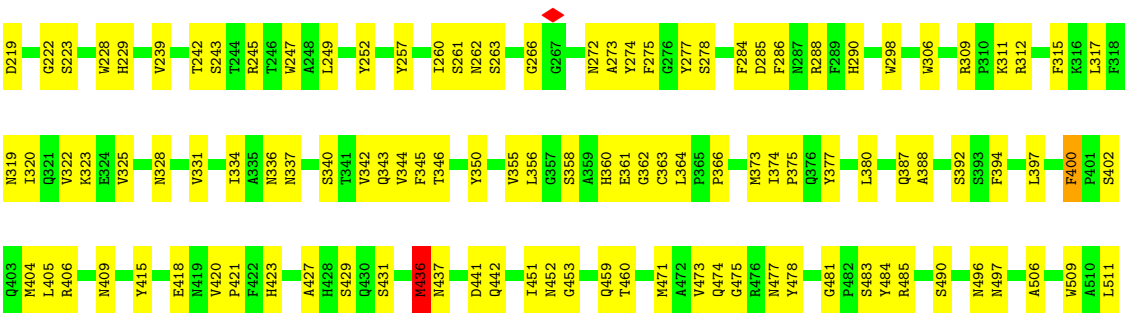
• Molecule 1: Capsid protein VP1

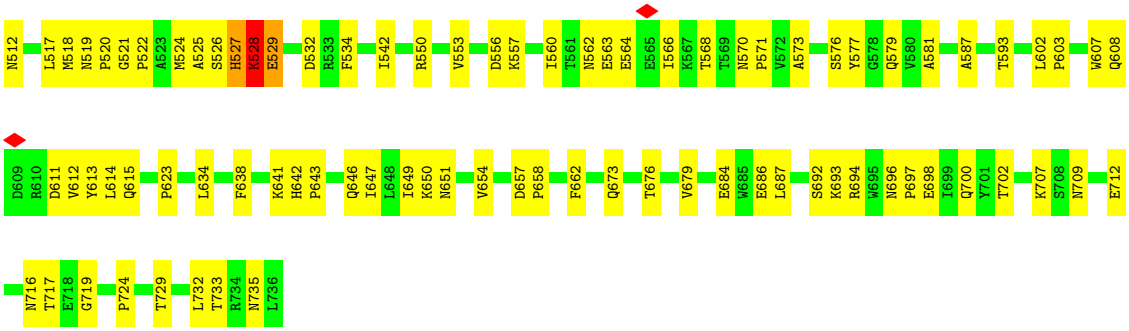
Chain C:



• Molecule 1: Capsid protein VP1

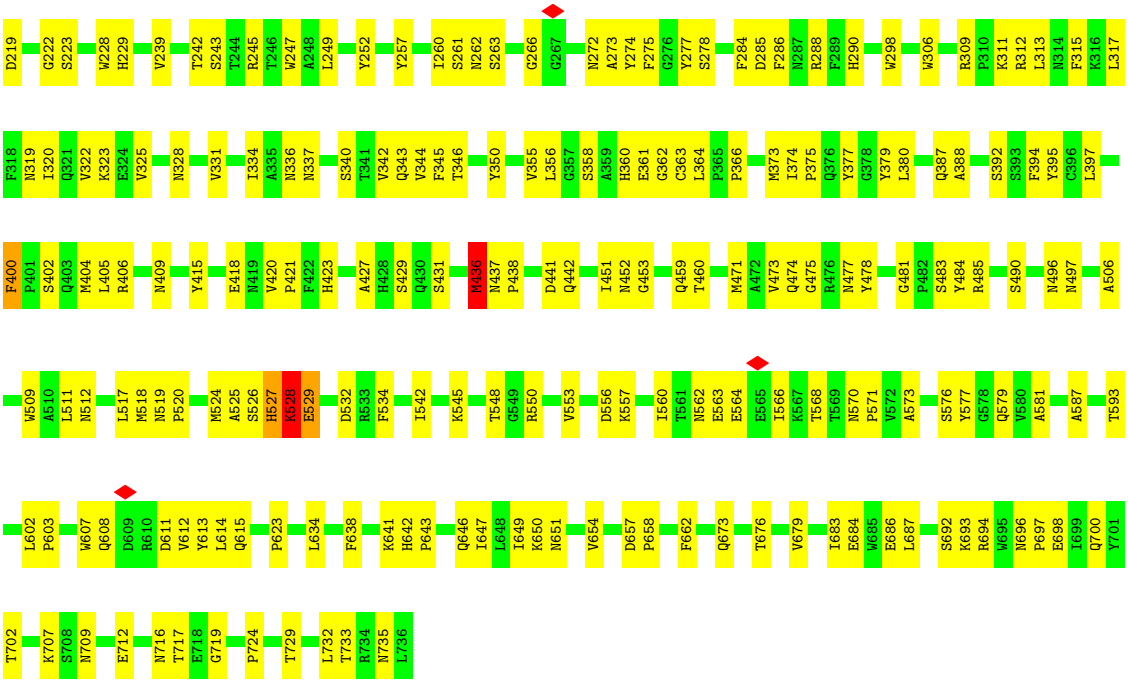
Chain D:





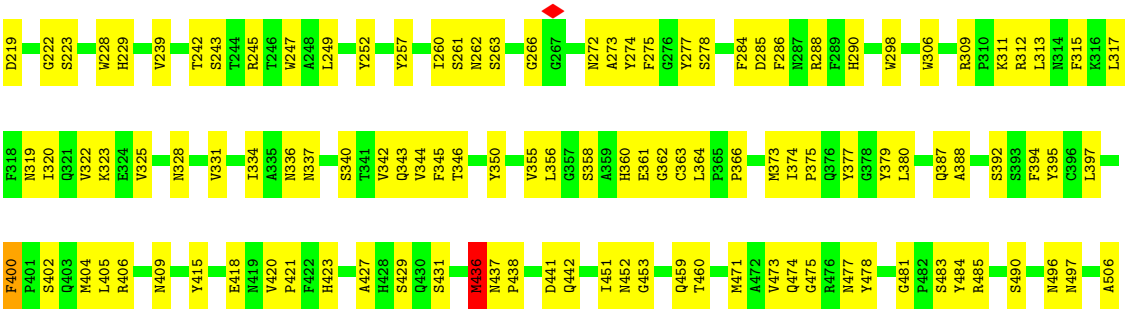
• Molecule 1: Capsid protein VP1

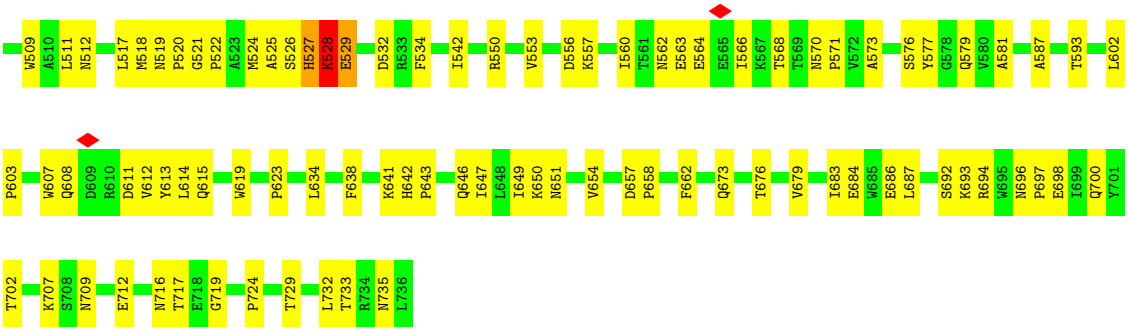
Chain E:



• Molecule 1: Capsid protein VP1

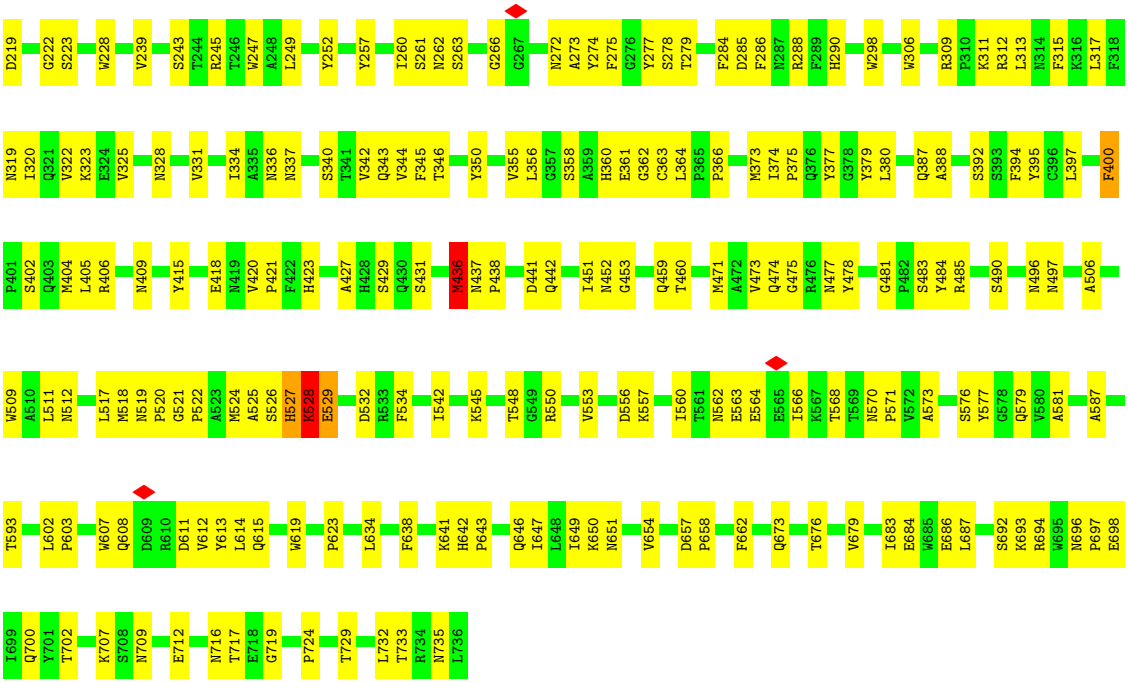
Chain F:





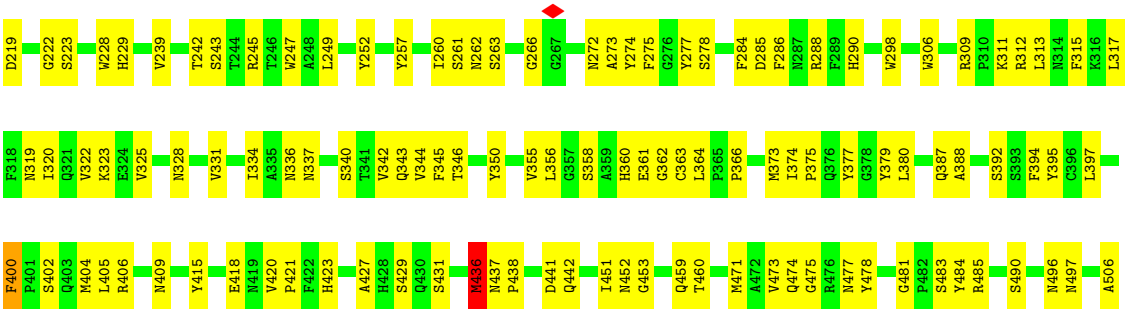
• Molecule 1: Capsid protein VP1

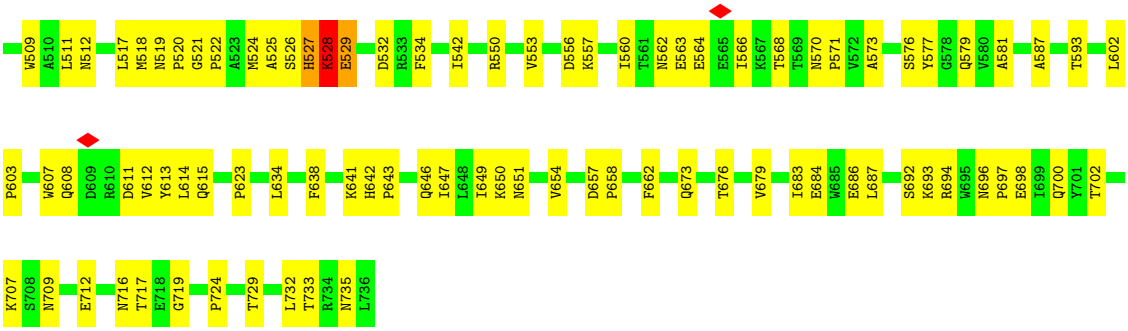
Chain G:



• Molecule 1: Capsid protein VP1

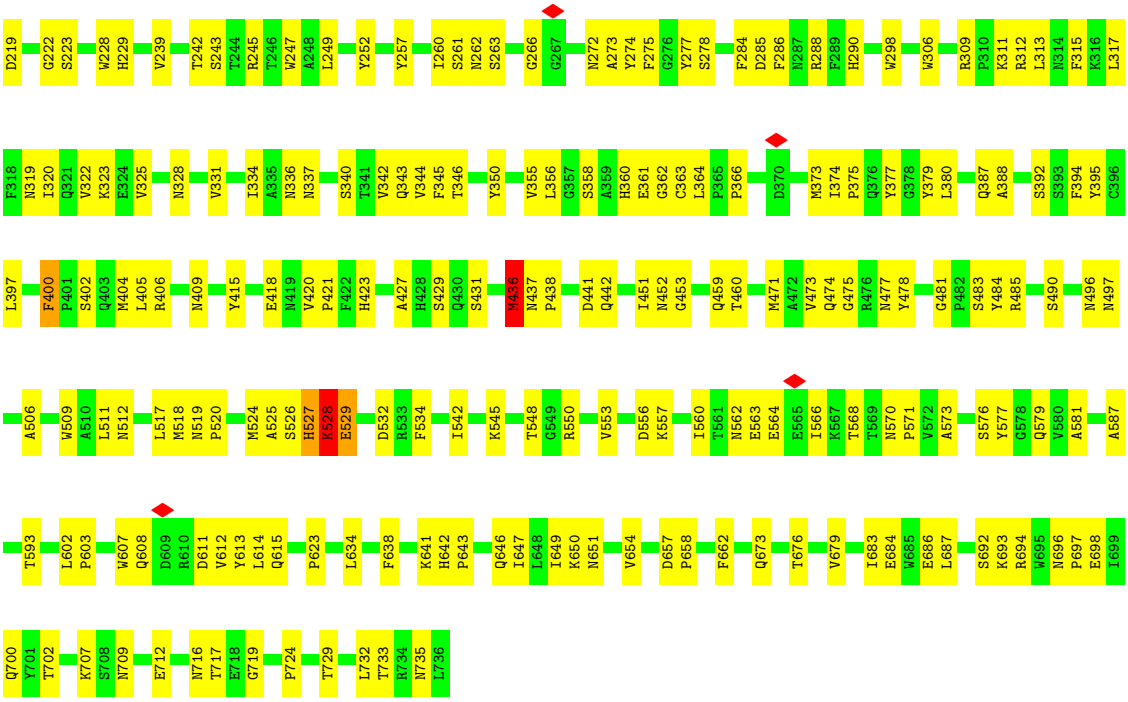
Chain H:





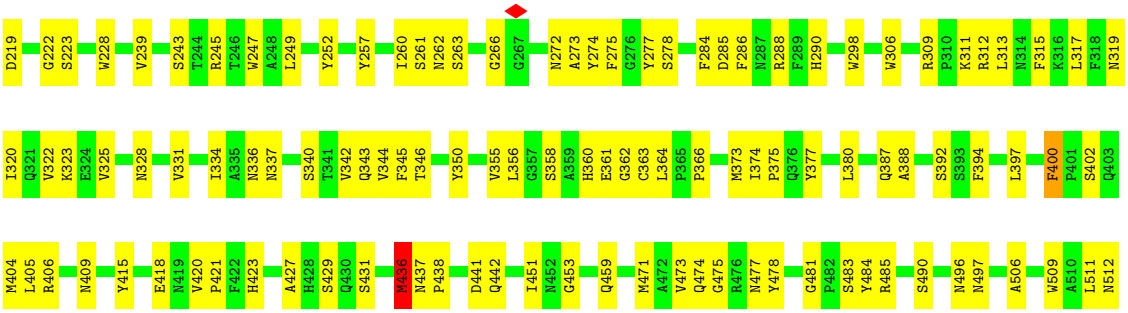
• Molecule 1: Capsid protein VP1

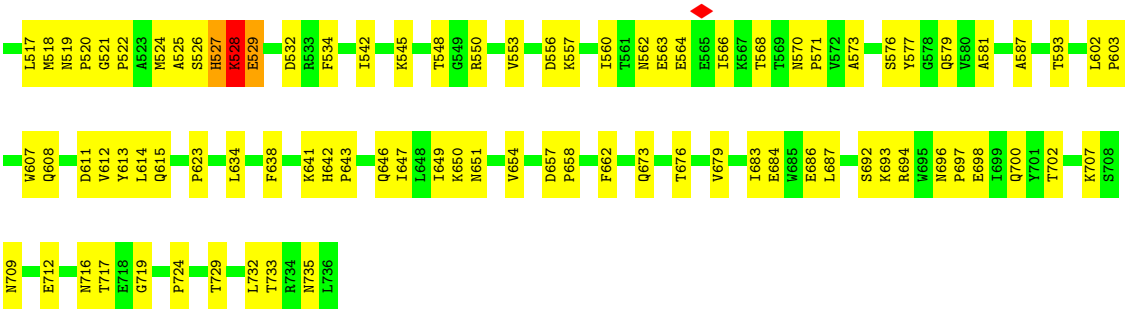
Chain I:



• Molecule 1: Capsid protein VP1

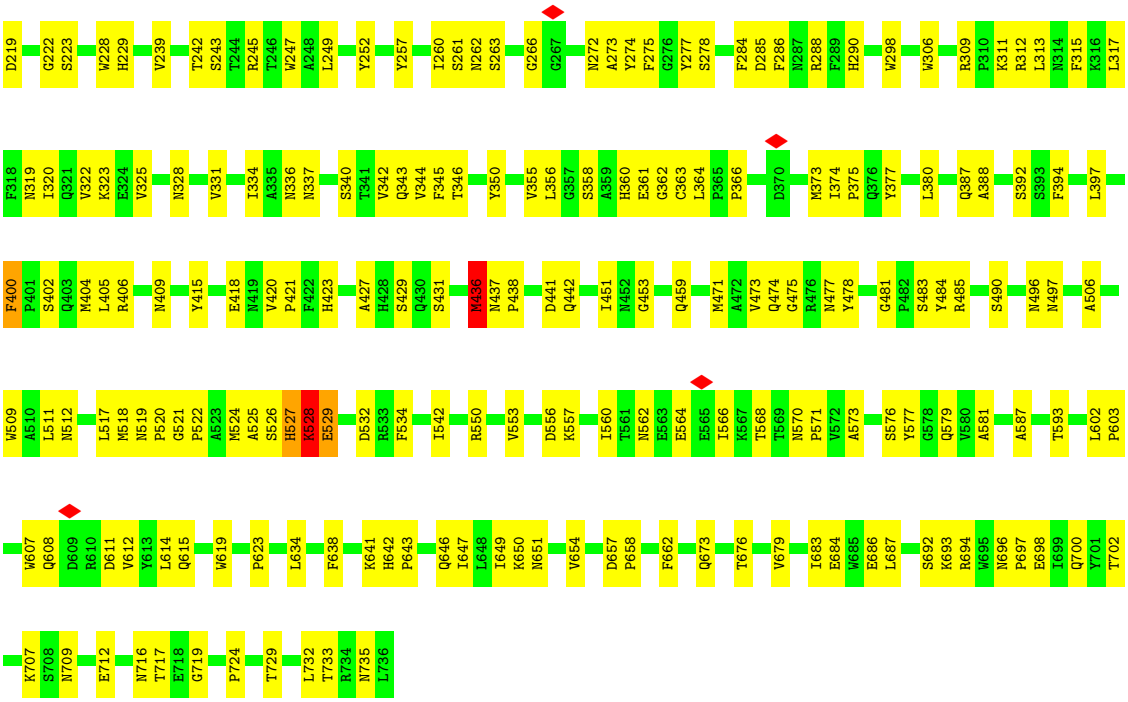
Chain J:





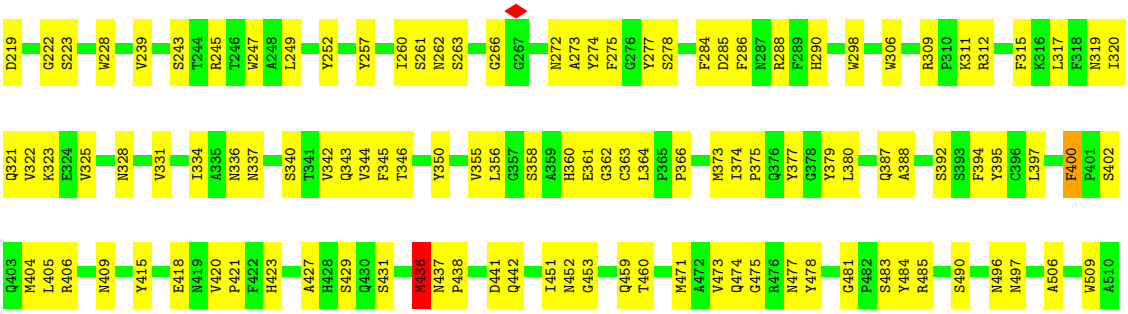
• Molecule 1: Capsid protein VP1

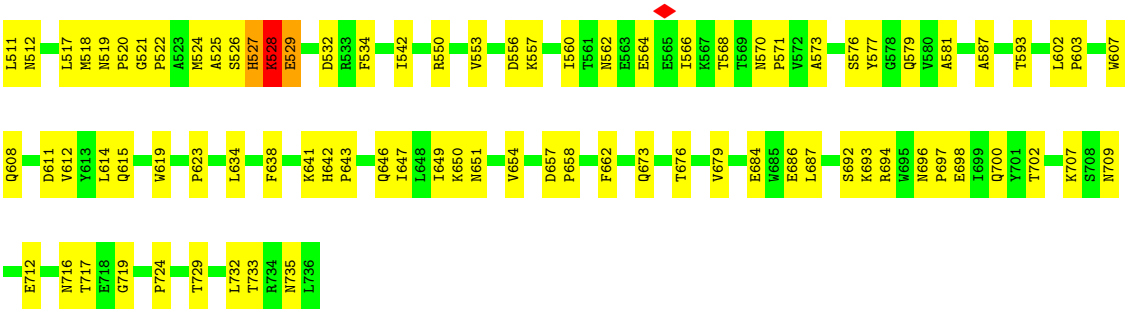
Chain K:



• Molecule 1: Capsid protein VP1

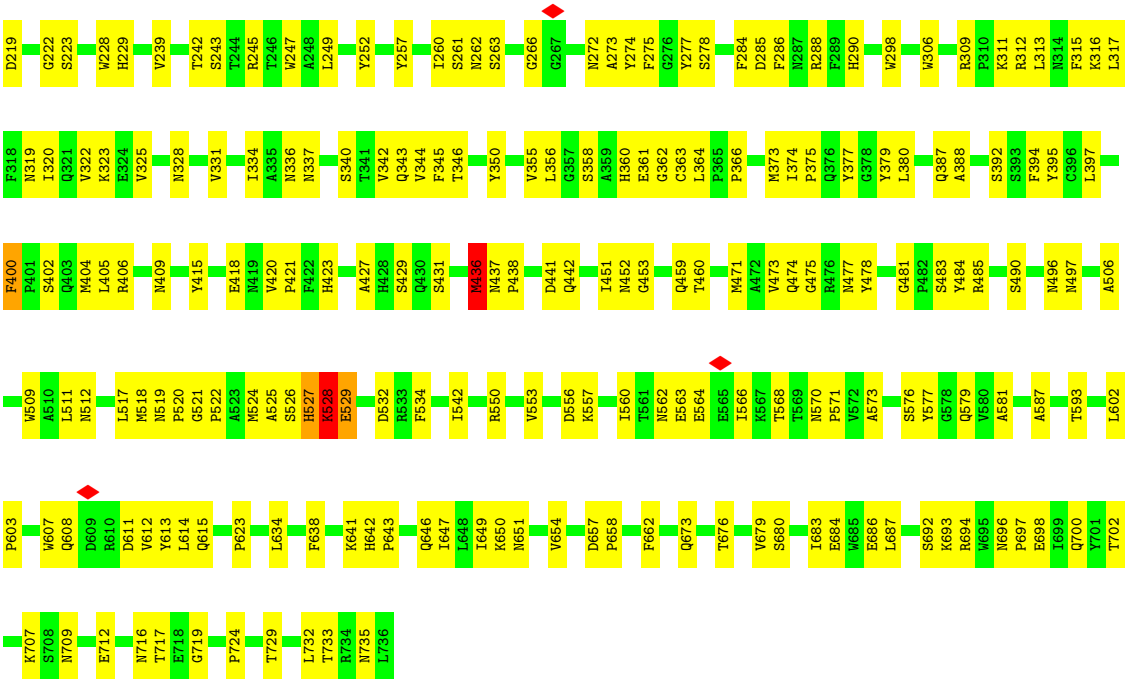
Chain L:





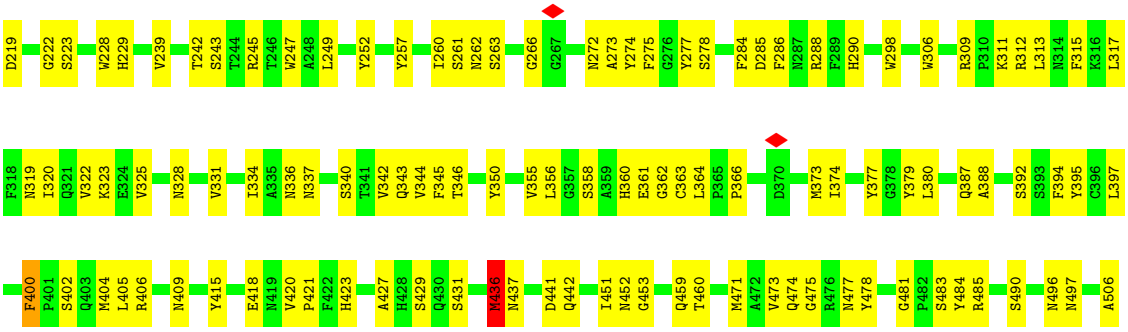
• Molecule 1: Capsid protein VP1

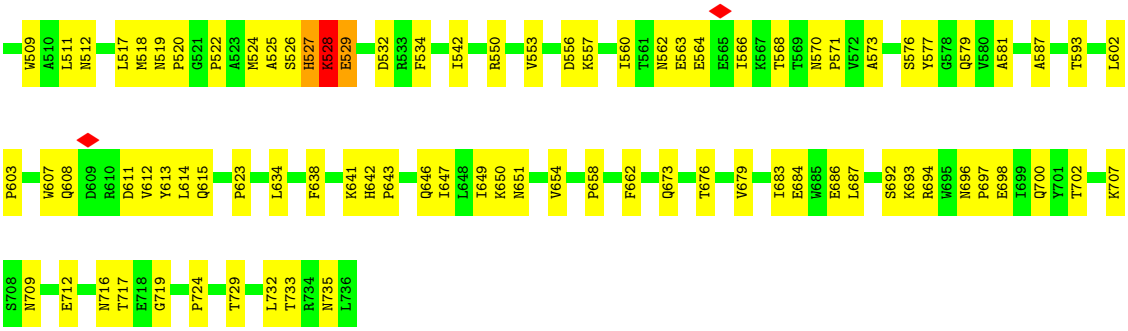
Chain M:



• Molecule 1: Capsid protein VP1

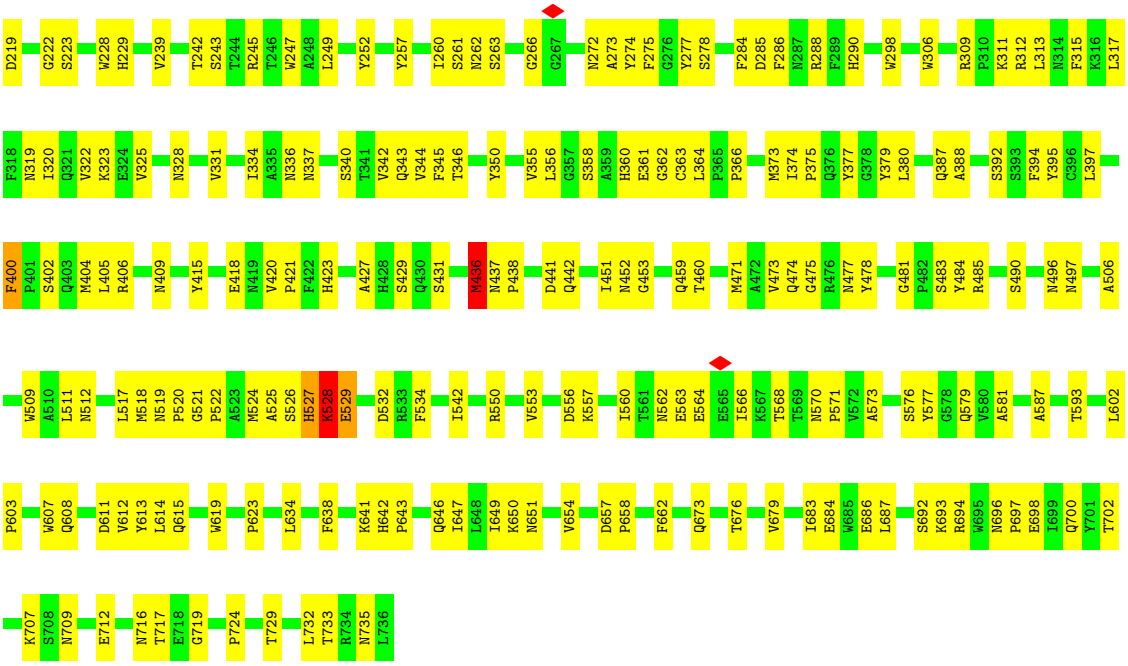
Chain N:





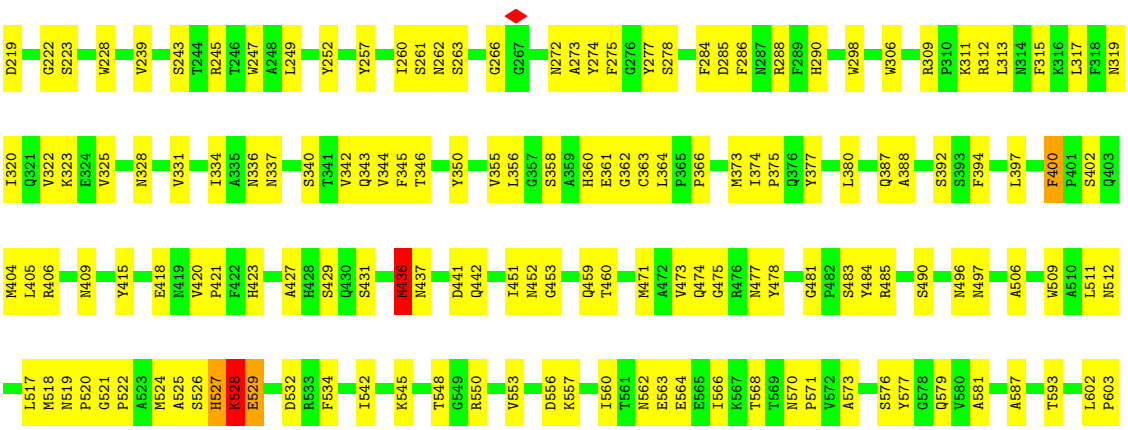
• Molecule 1: Capsid protein VP1

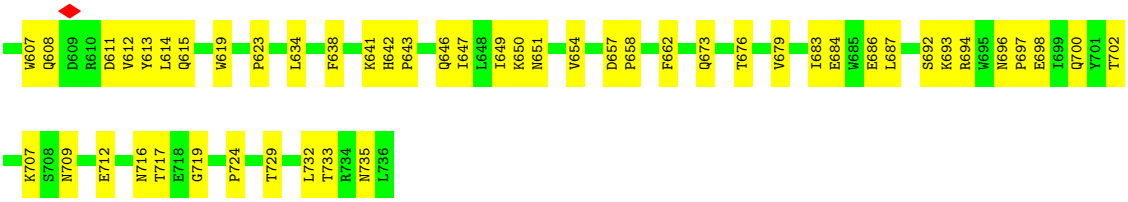
Chain O:



• Molecule 1: Capsid protein VP1

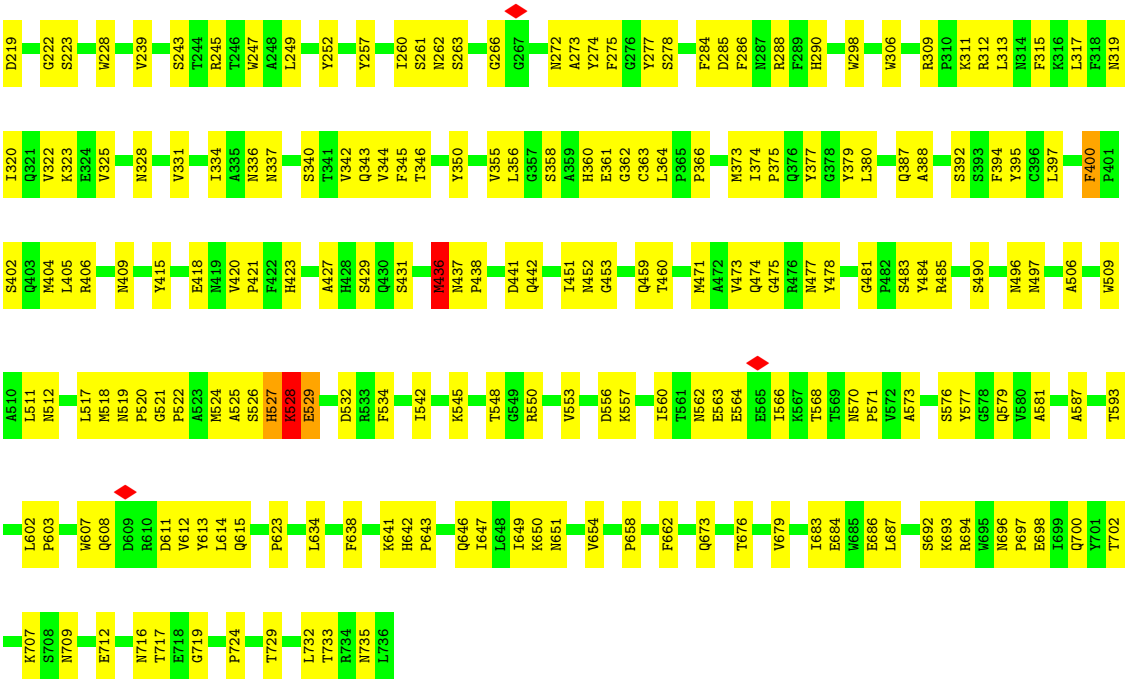
Chain P:





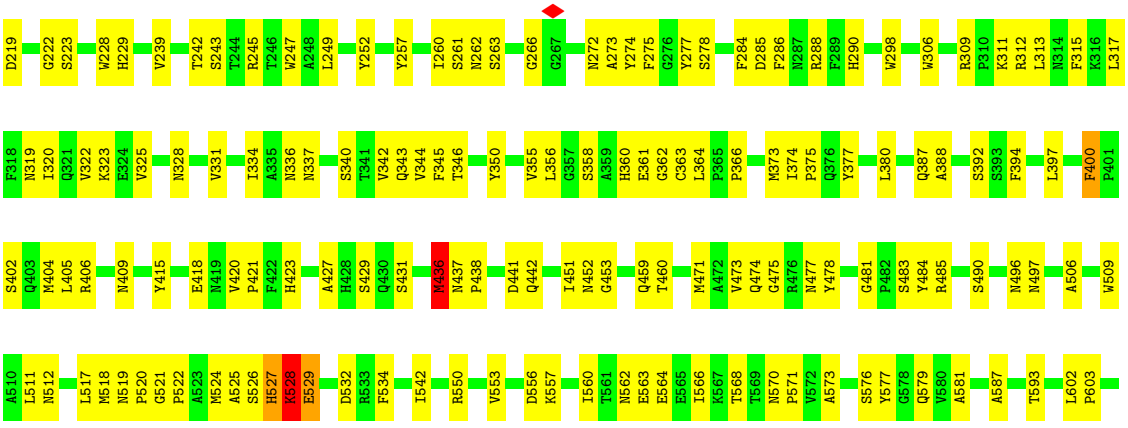
• Molecule 1: Capsid protein VP1

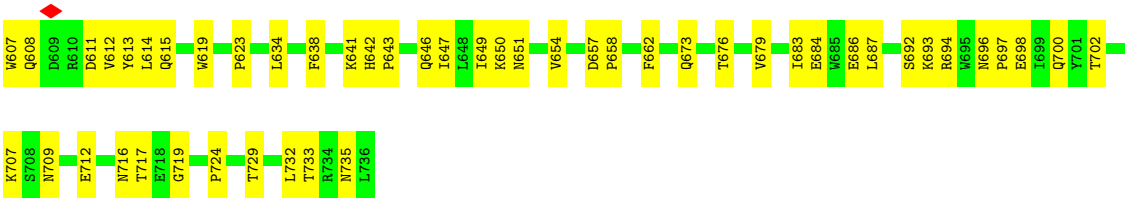
Chain Q:



• Molecule 1: Capsid protein VP1

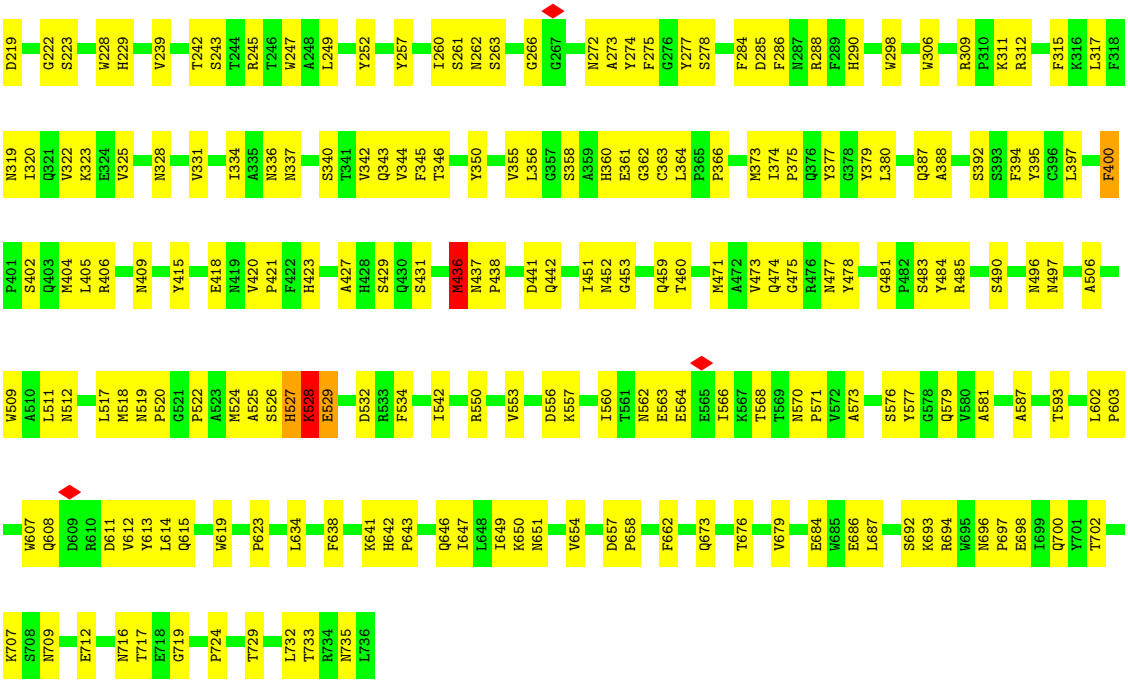
Chain R:





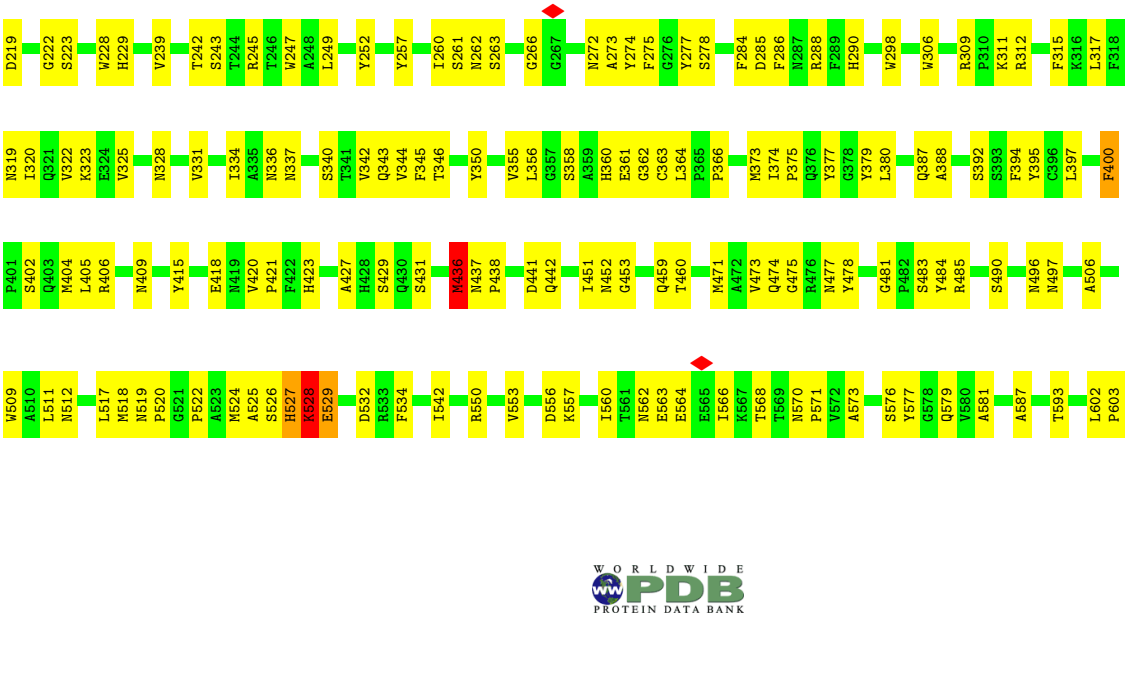
• Molecule 1: Capsid protein VP1

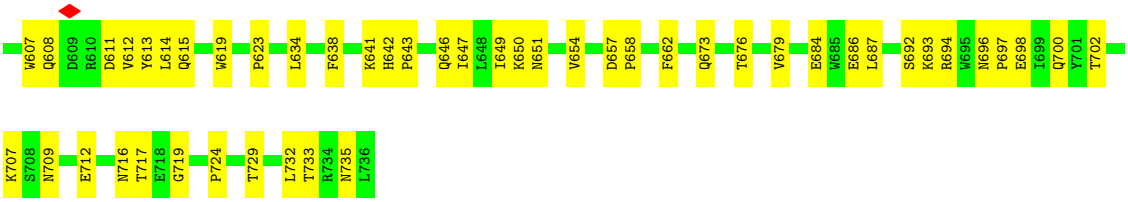
Chain S:



• Molecule 1: Capsid protein VP1

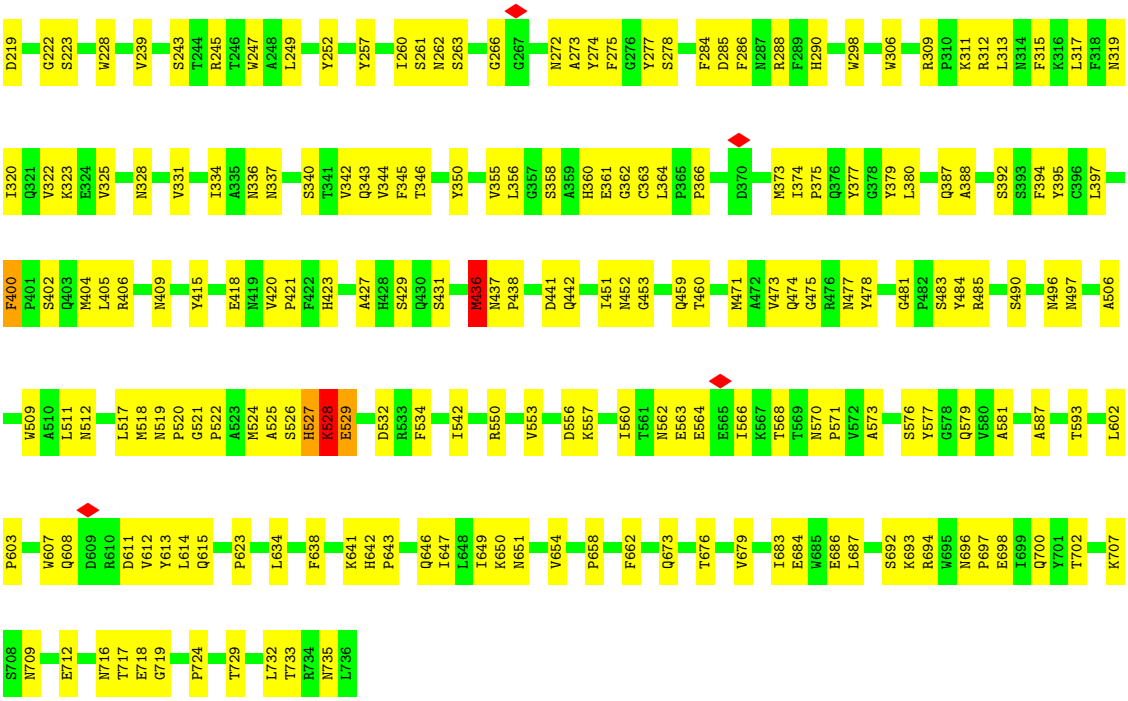
Chain T:





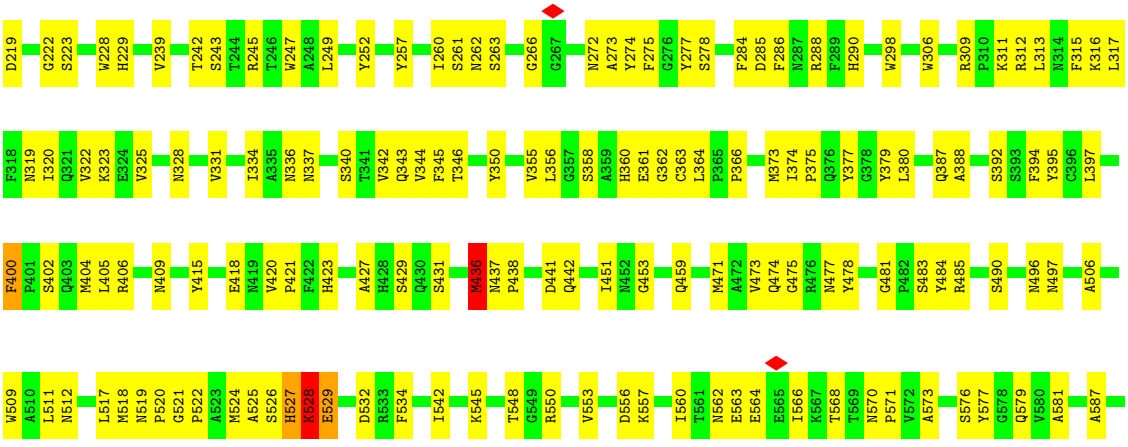
• Molecule 1: Capsid protein VP1

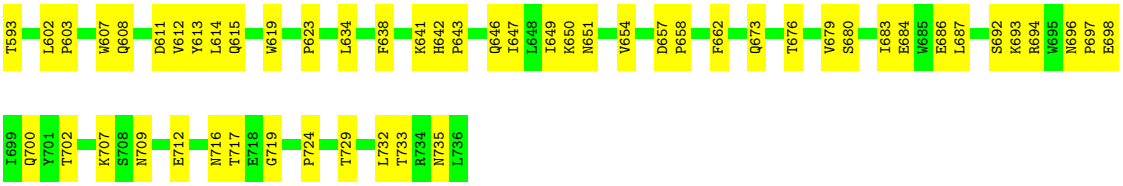
Chain U:



• Molecule 1: Capsid protein VP1

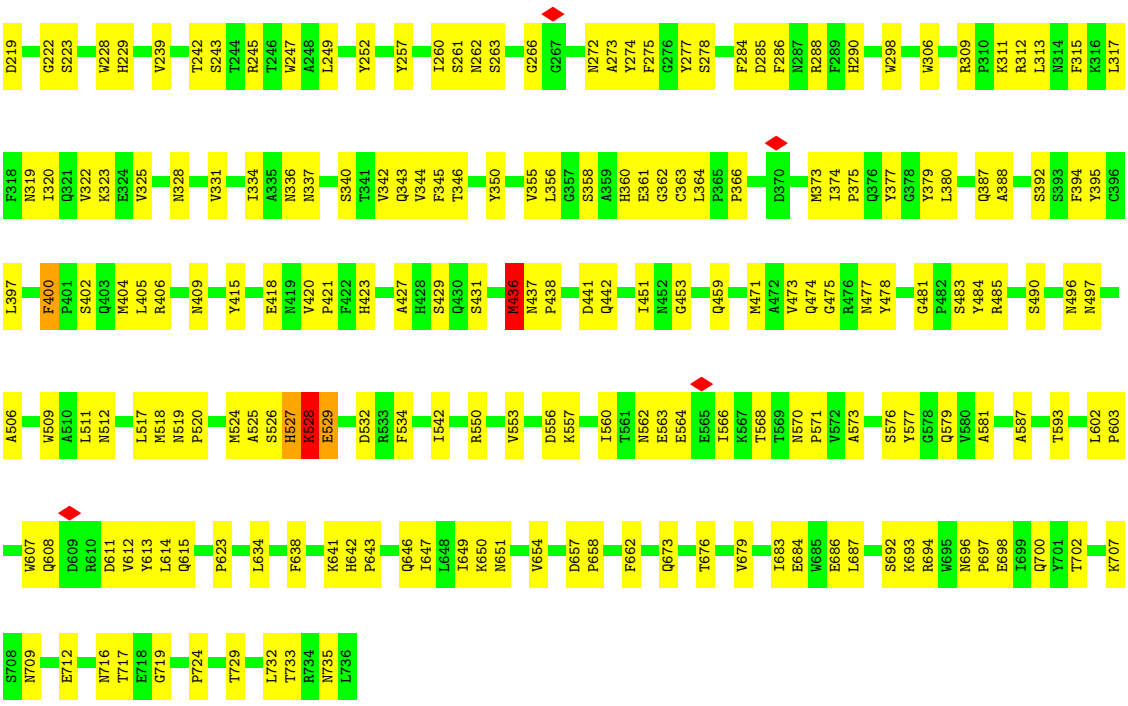
Chain V:





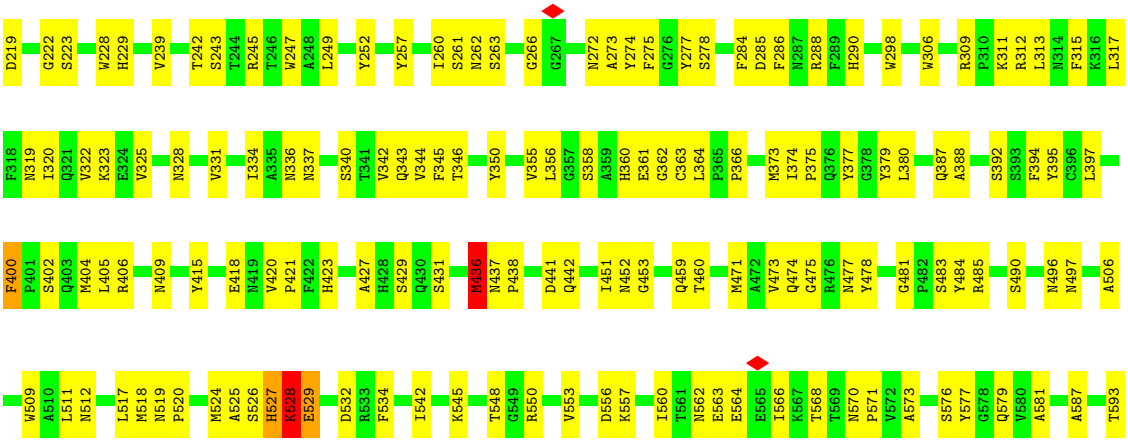
• Molecule 1: Capsid protein VP1

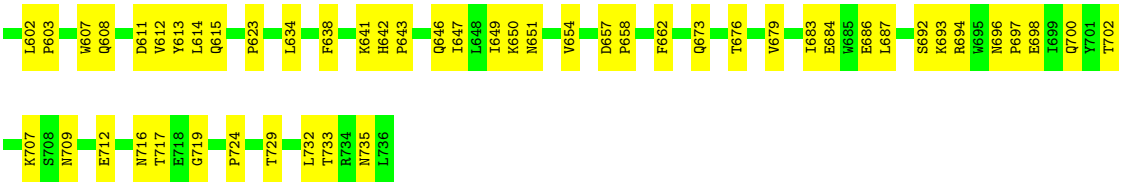
Chain W:



• Molecule 1: Capsid protein VP1

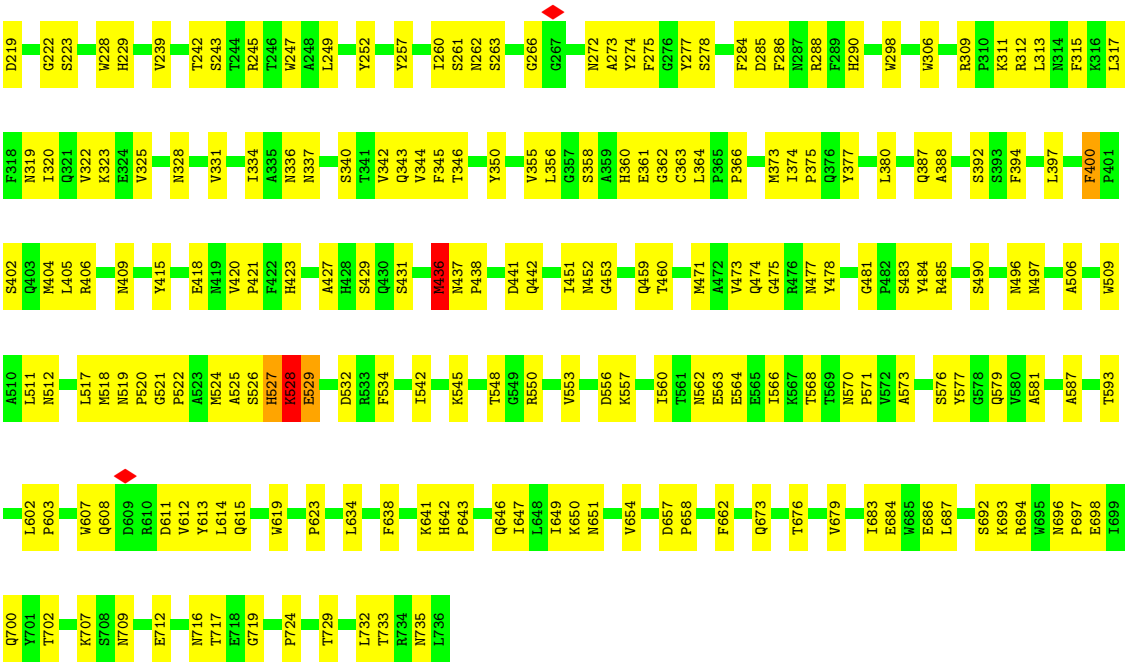
Chain X:





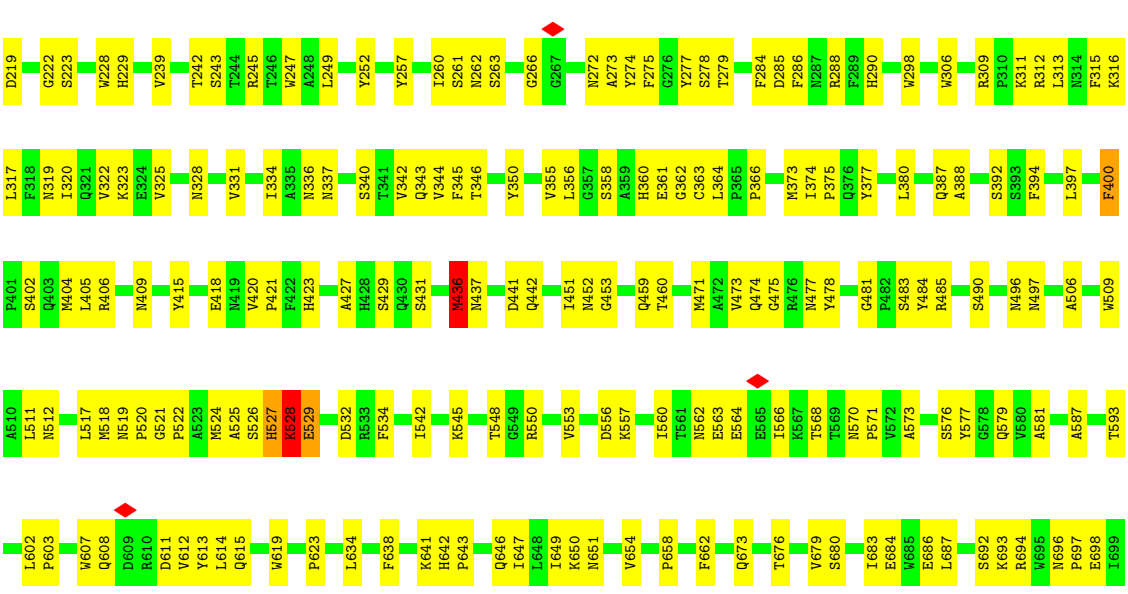
• Molecule 1: Capsid protein VP1

Chain Y:



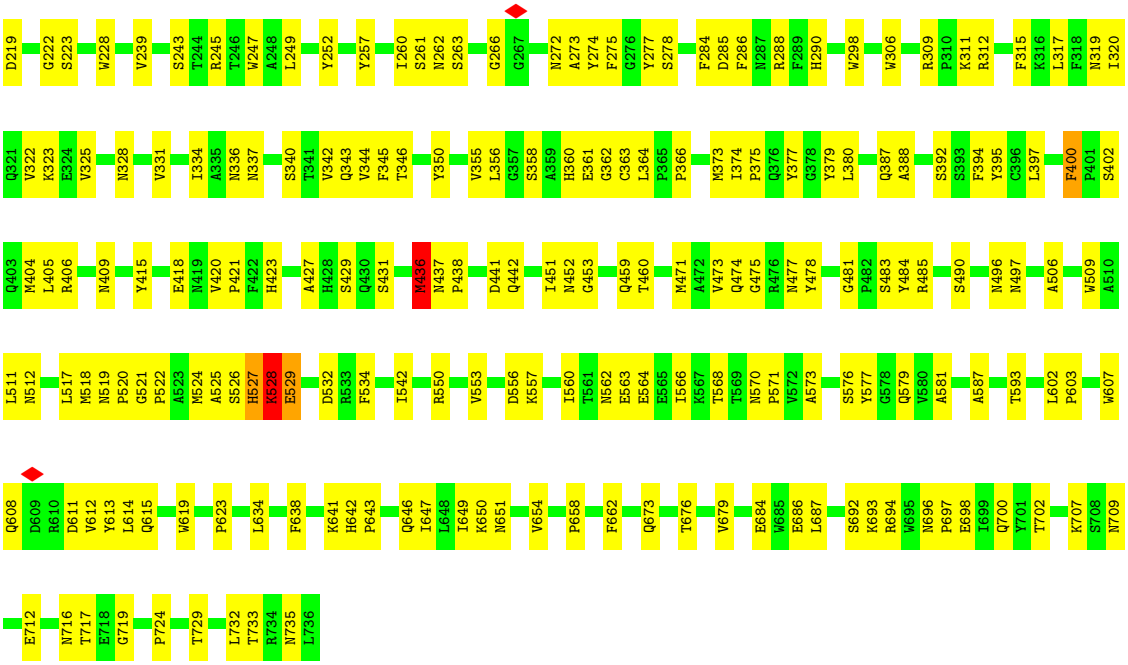
• Molecule 1: Capsid protein VP1

Chain Z:



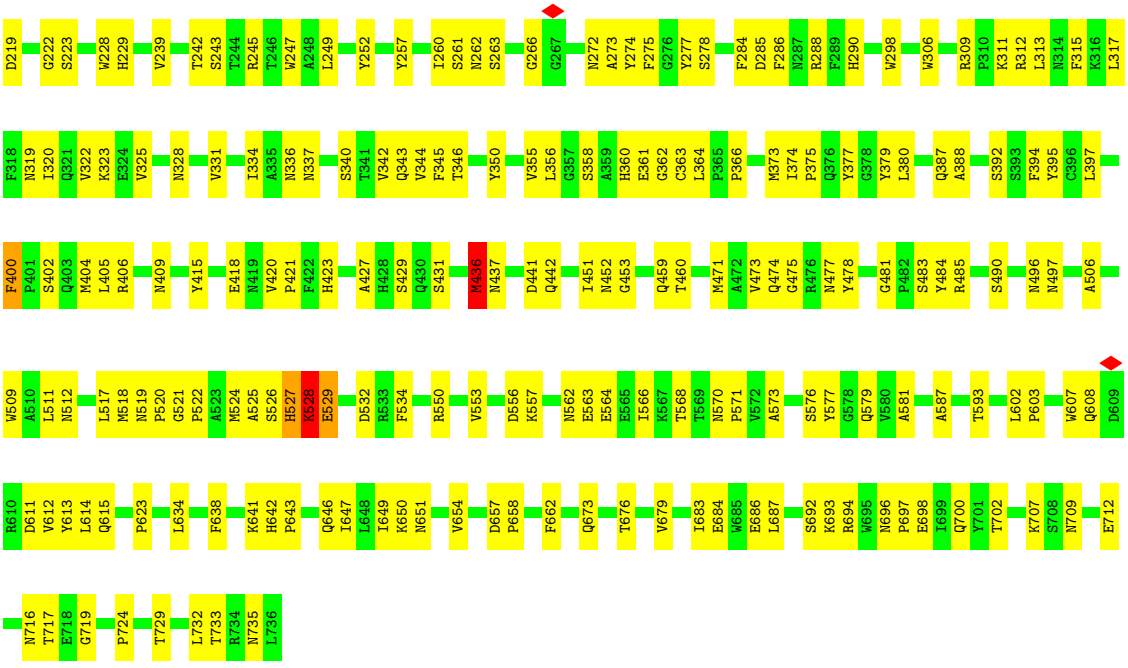
• Molecule 1: Capsid protein VP1

Chain 1:



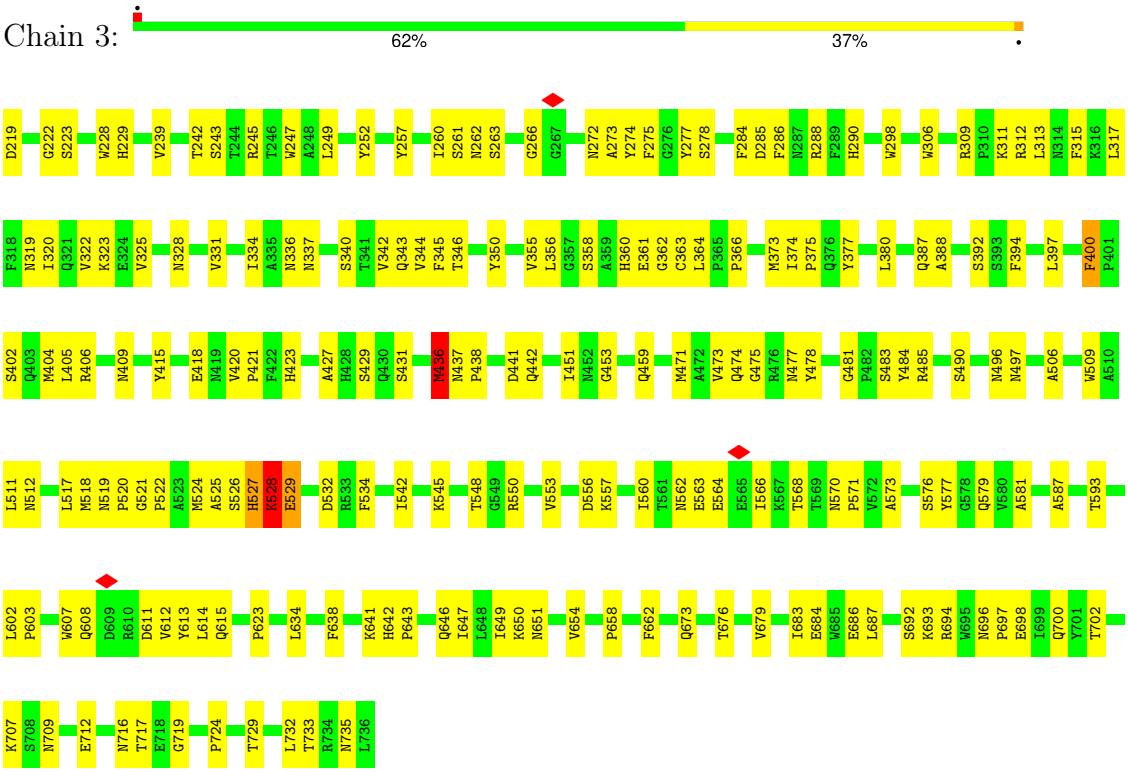
• Molecule 1: Capsid protein VP1

Chain 2:



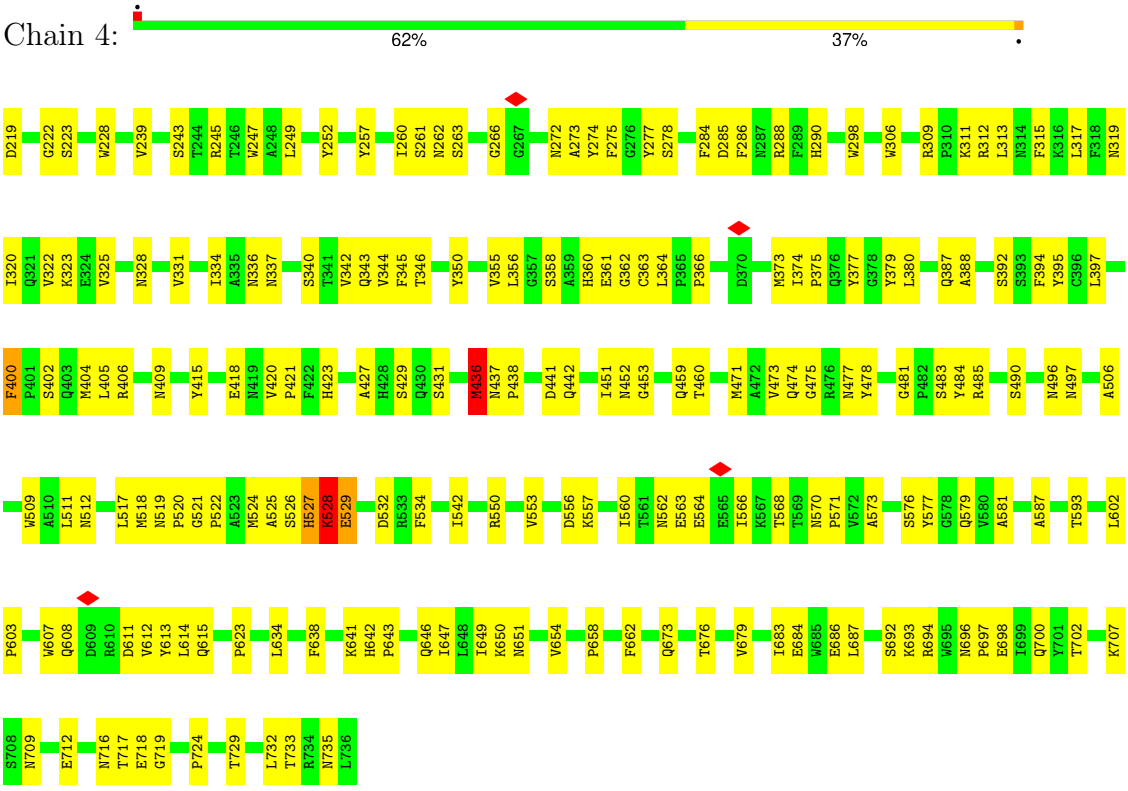
• Molecule 1: Capsid protein VP1

Chain 3:



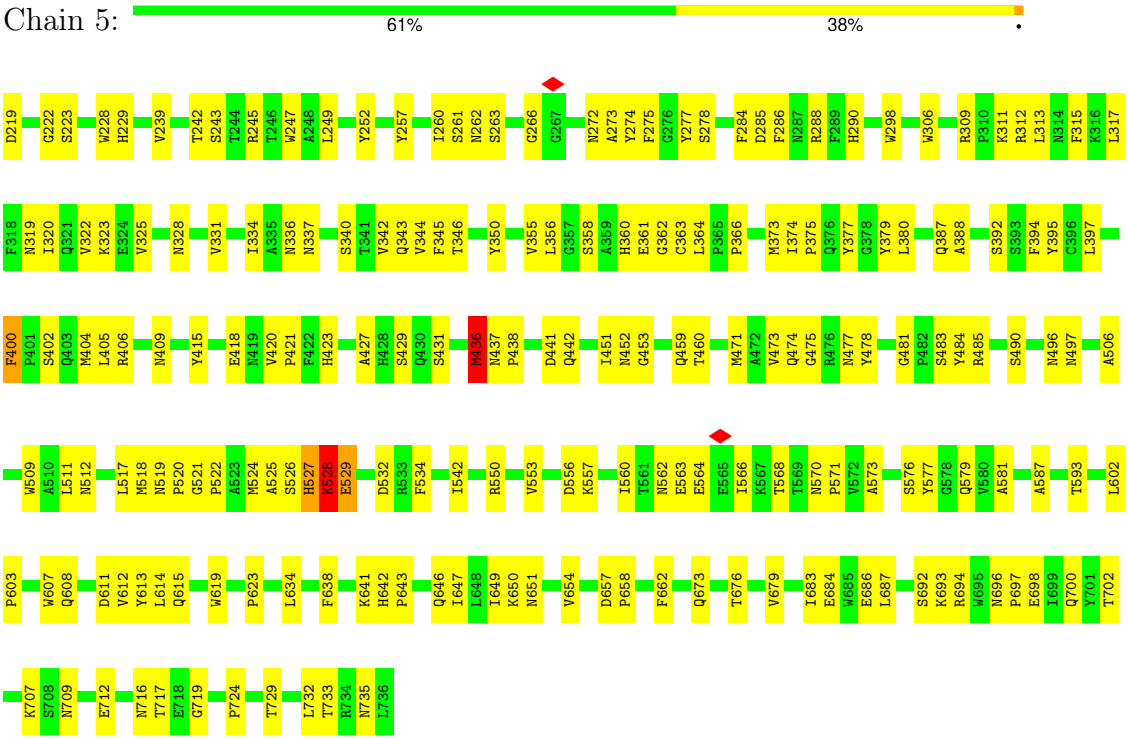
• Molecule 1: Capsid protein VP1

Chain 4:



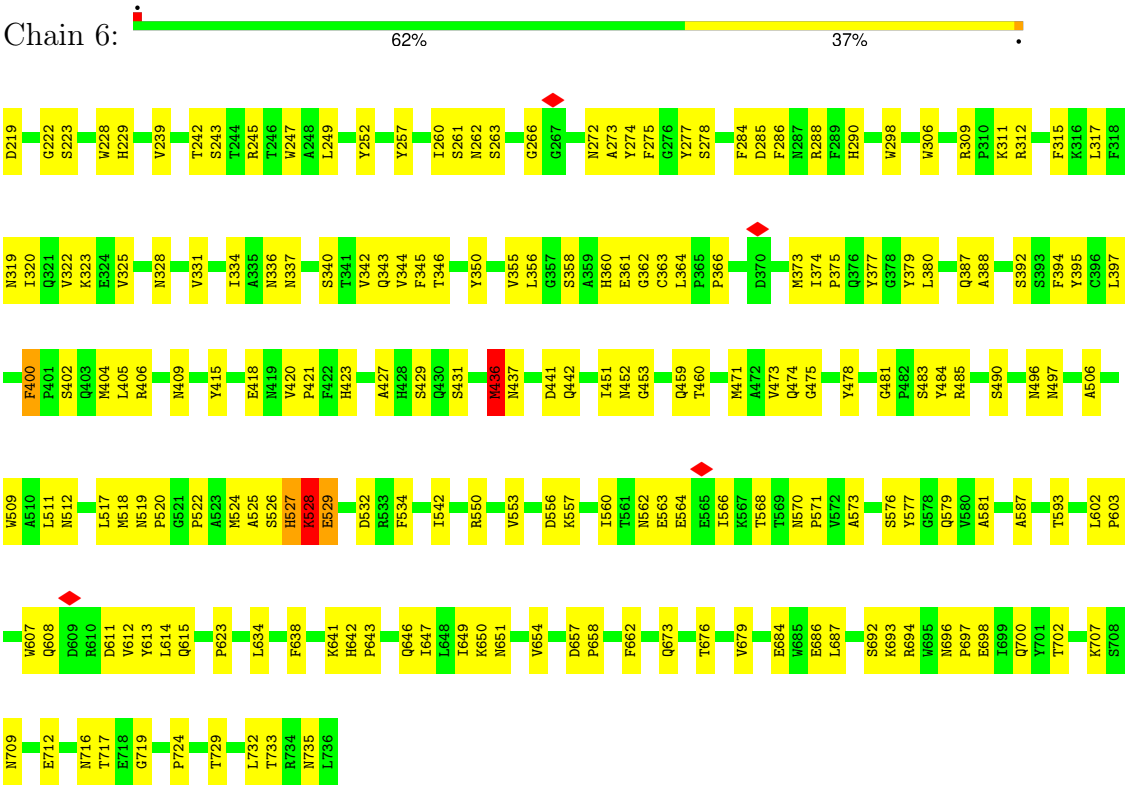
• Molecule 1: Capsid protein VP1

Chain 5:



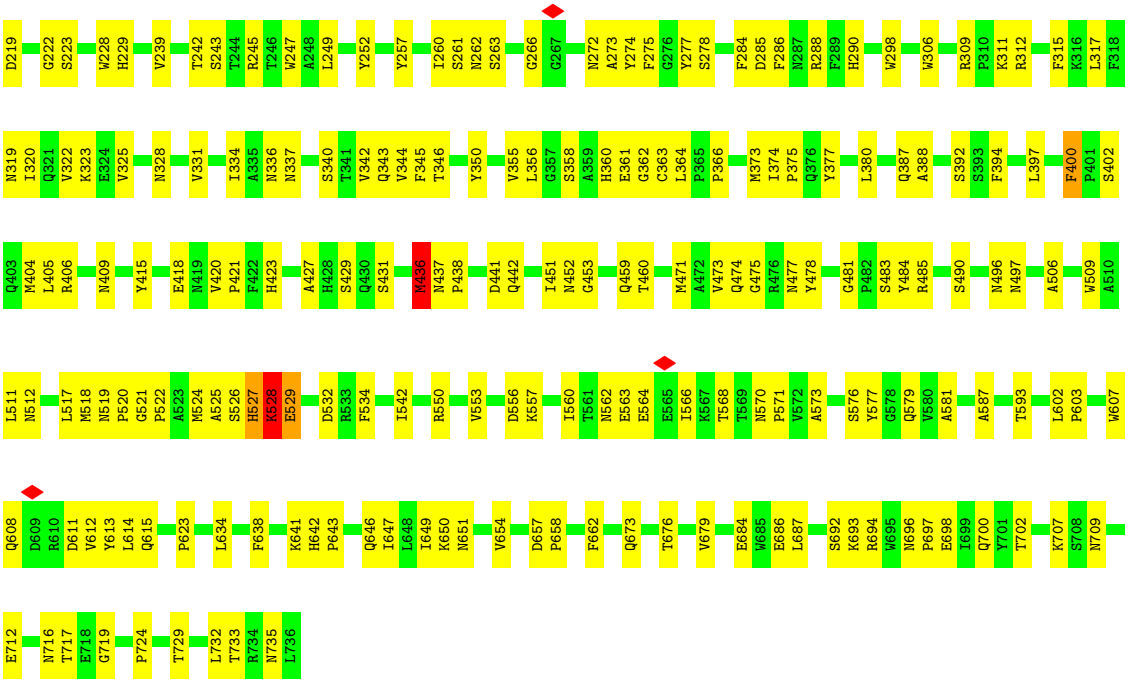
• Molecule 1: Capsid protein VP1

Chain 6:



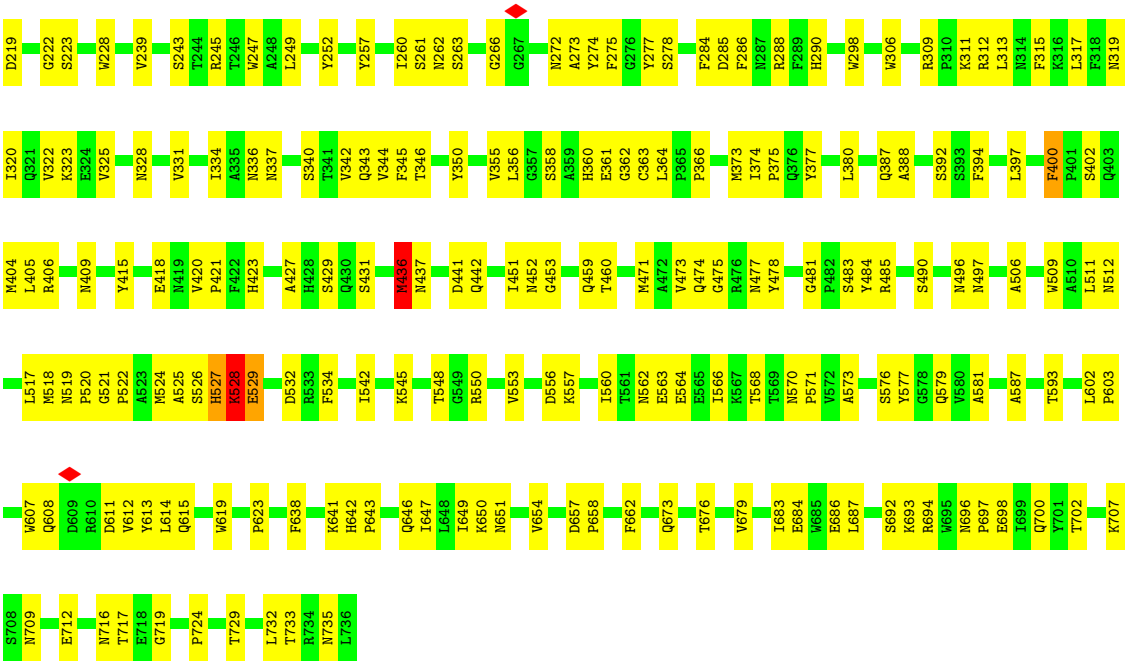
• Molecule 1: Capsid protein VP1

Chain a:



• Molecule 1: Capsid protein VP1

Chain b:



• Molecule 1: Capsid protein VP1

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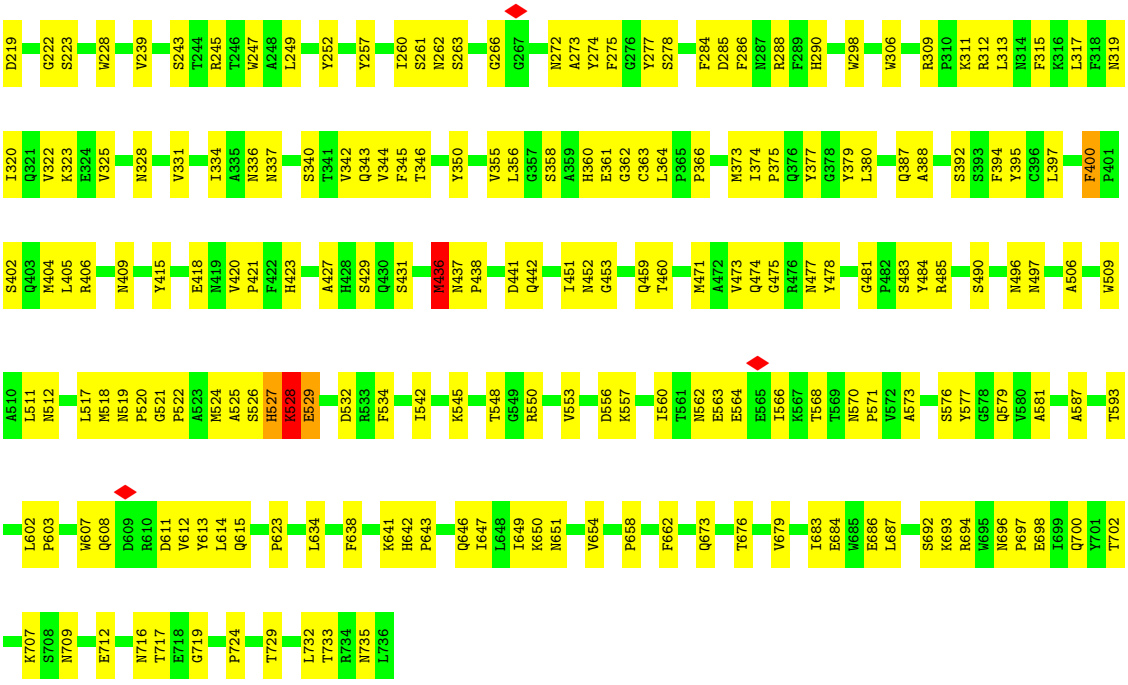
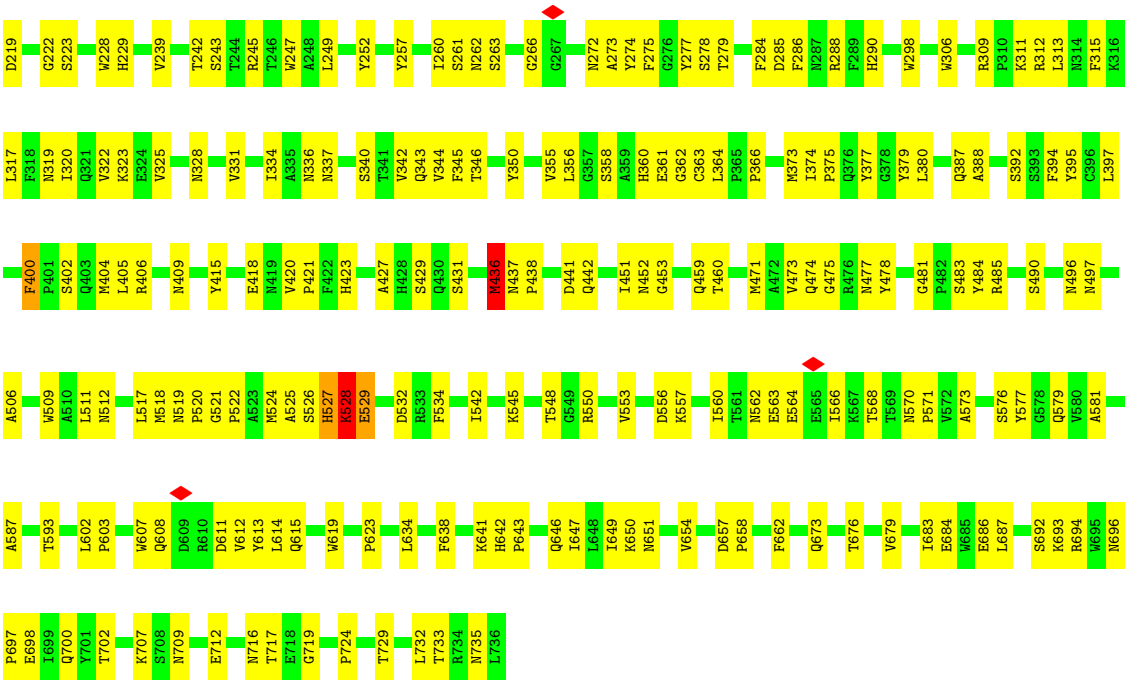


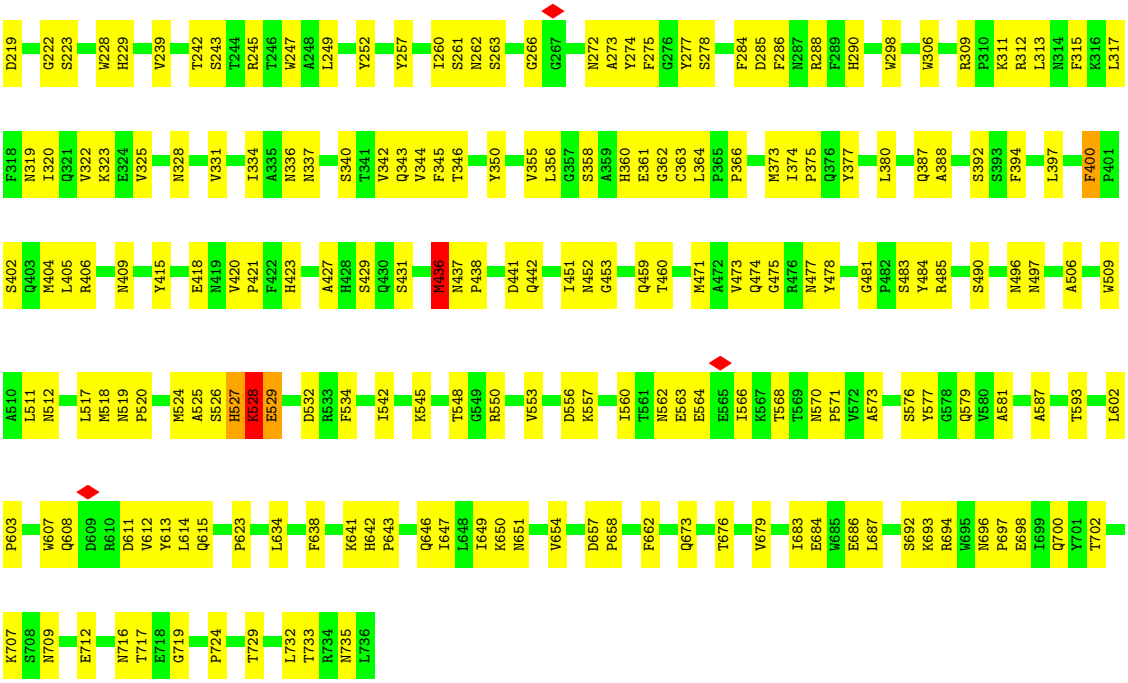
• Molecule 1: Capsid protein VP1

Chain d:



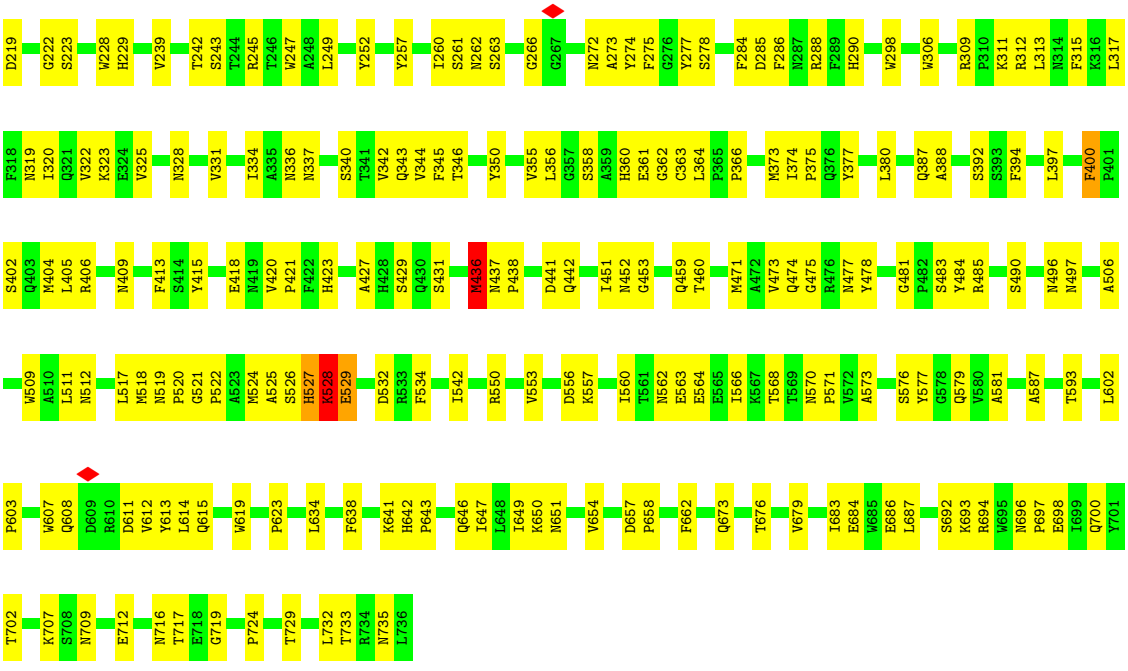
• Molecule 1: Capsid protein VP1

Chain e:



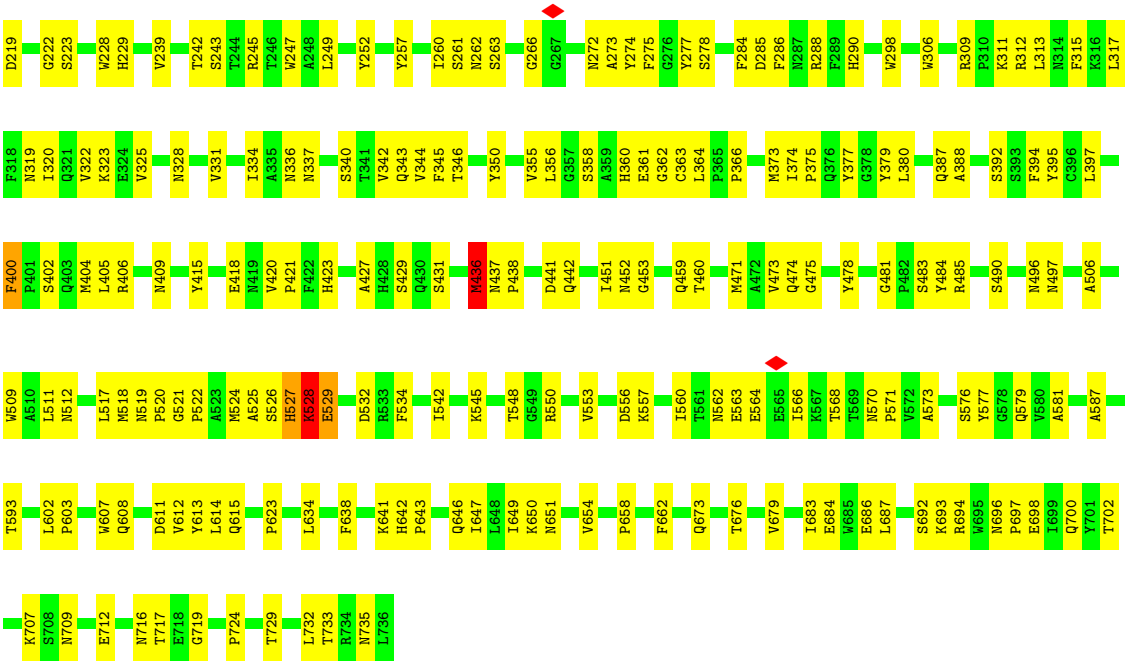
• Molecule 1: Capsid protein VP1

Chain f:



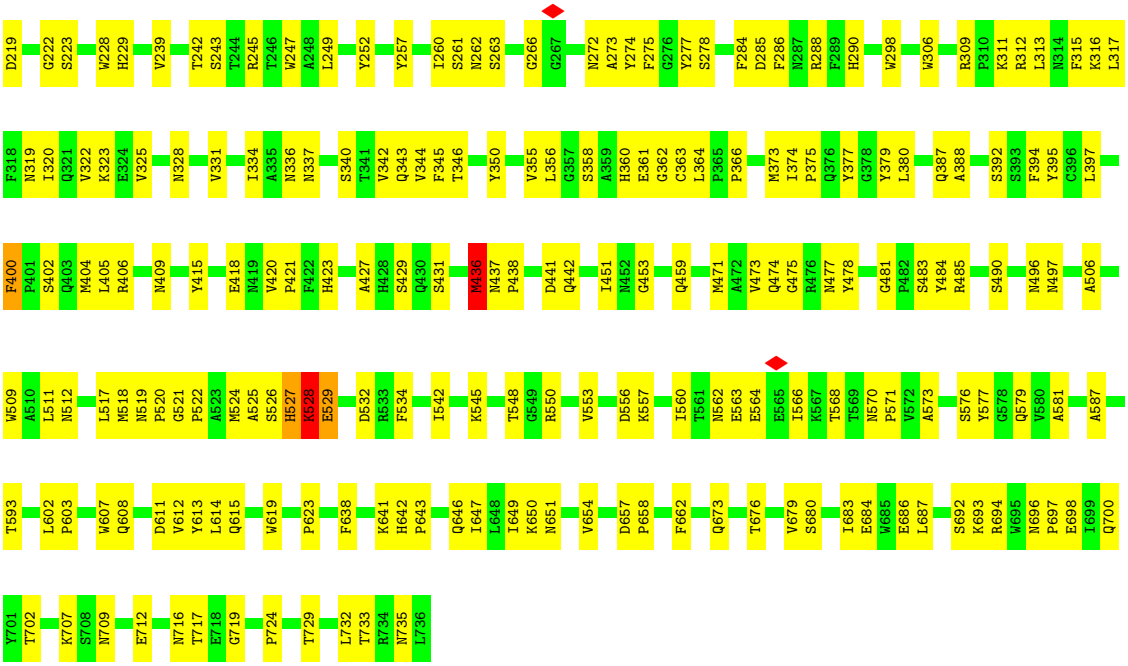
• Molecule 1: Capsid protein VP1

Chain g:



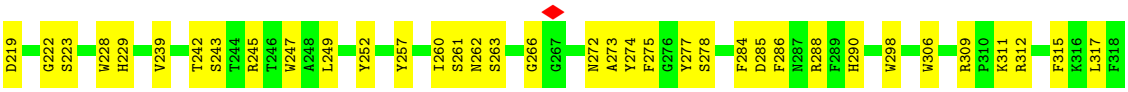
• Molecule 1: Capsid protein VP1

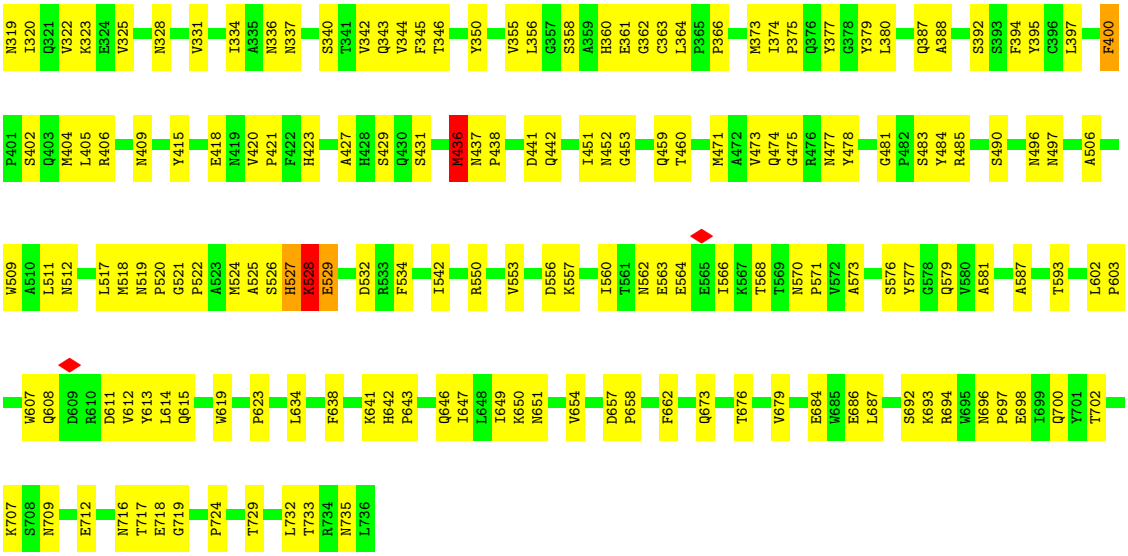
Chain h:



• Molecule 1: Capsid protein VP1

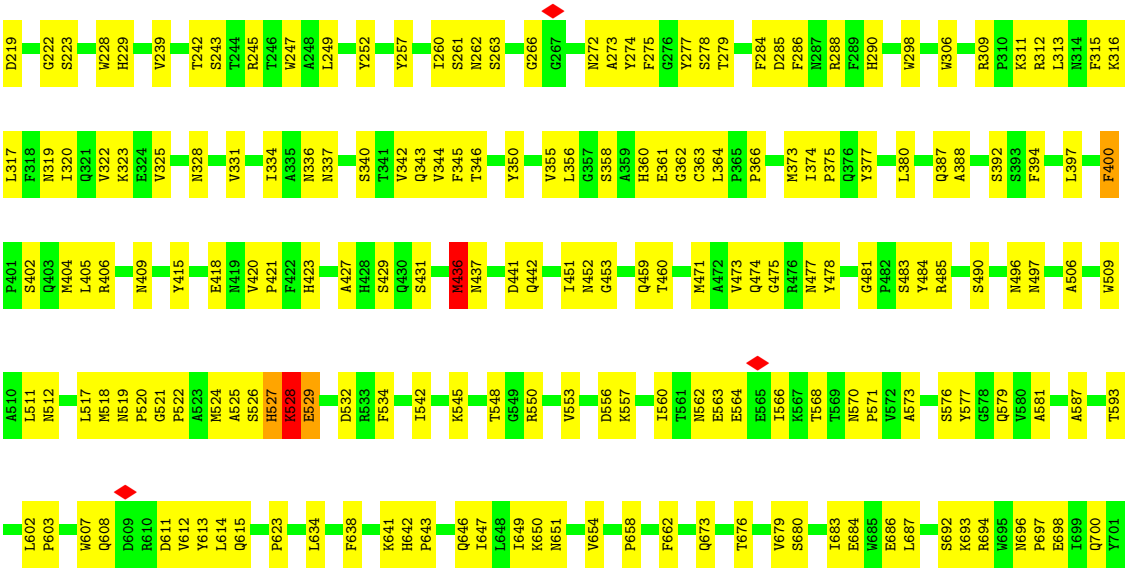
Chain i:





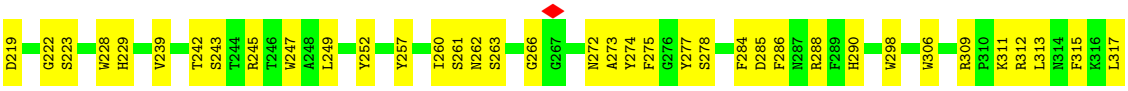
• Molecule 1: Capsid protein VP1

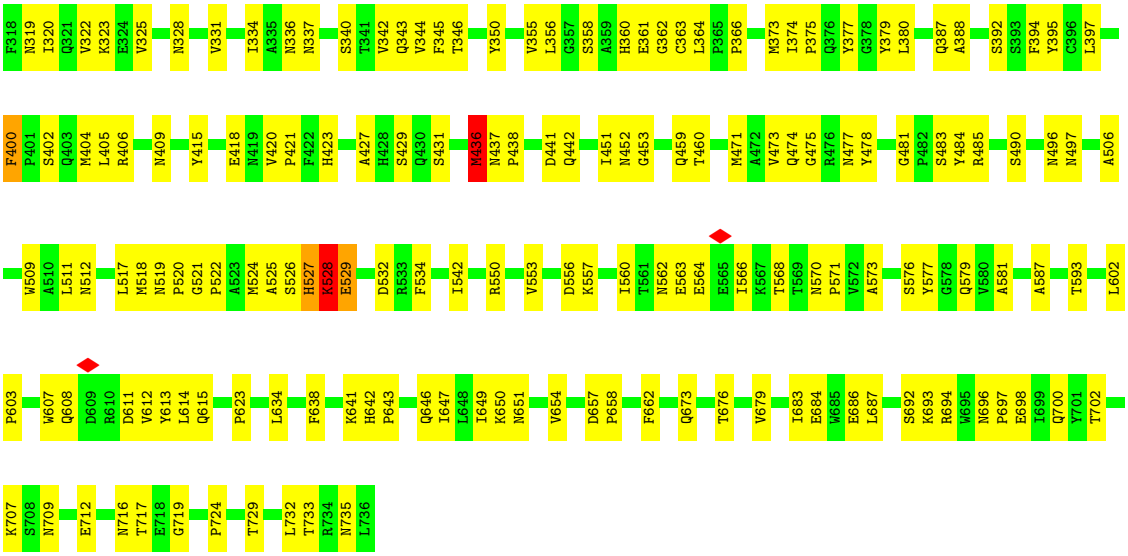
Chain j:



• Molecule 1: Capsid protein VP1

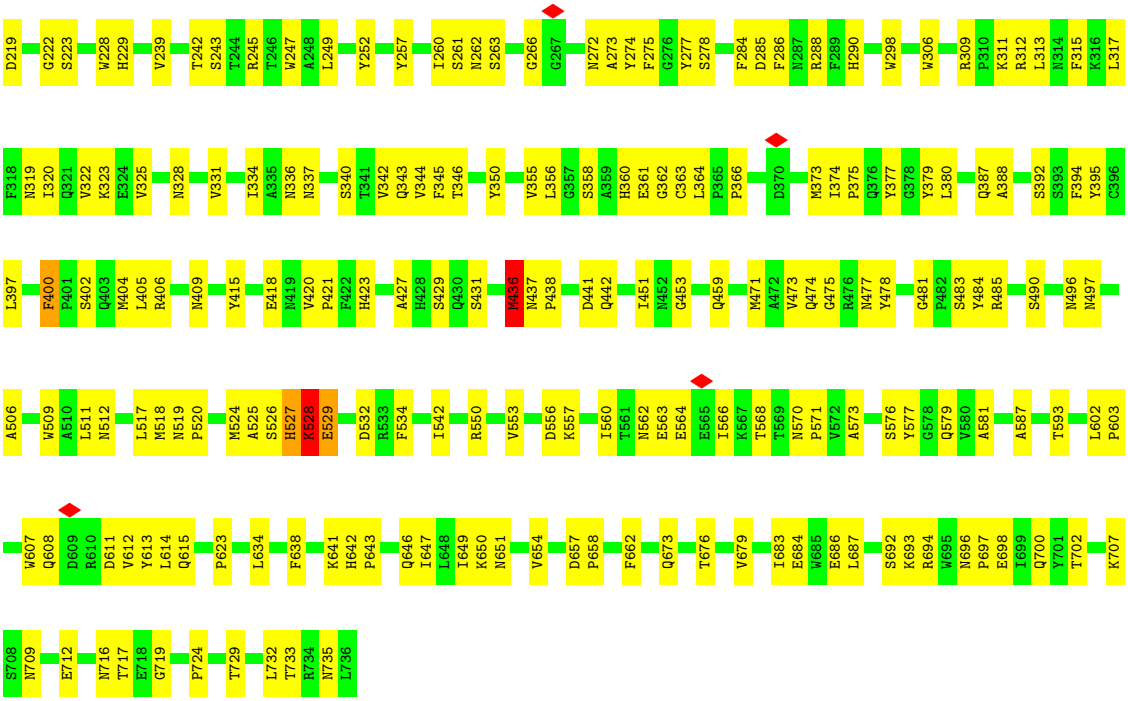
Chain k:





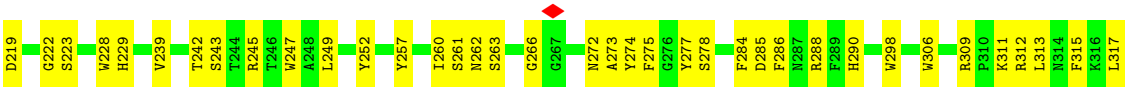
• Molecule 1: Capsid protein VP1

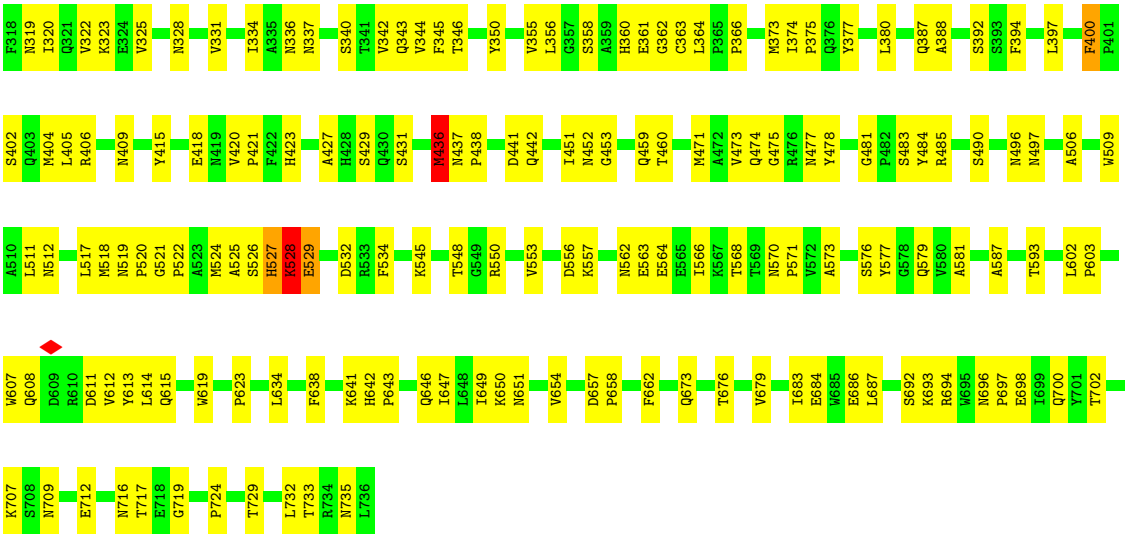
Chain l:



• Molecule 1: Capsid protein VP1

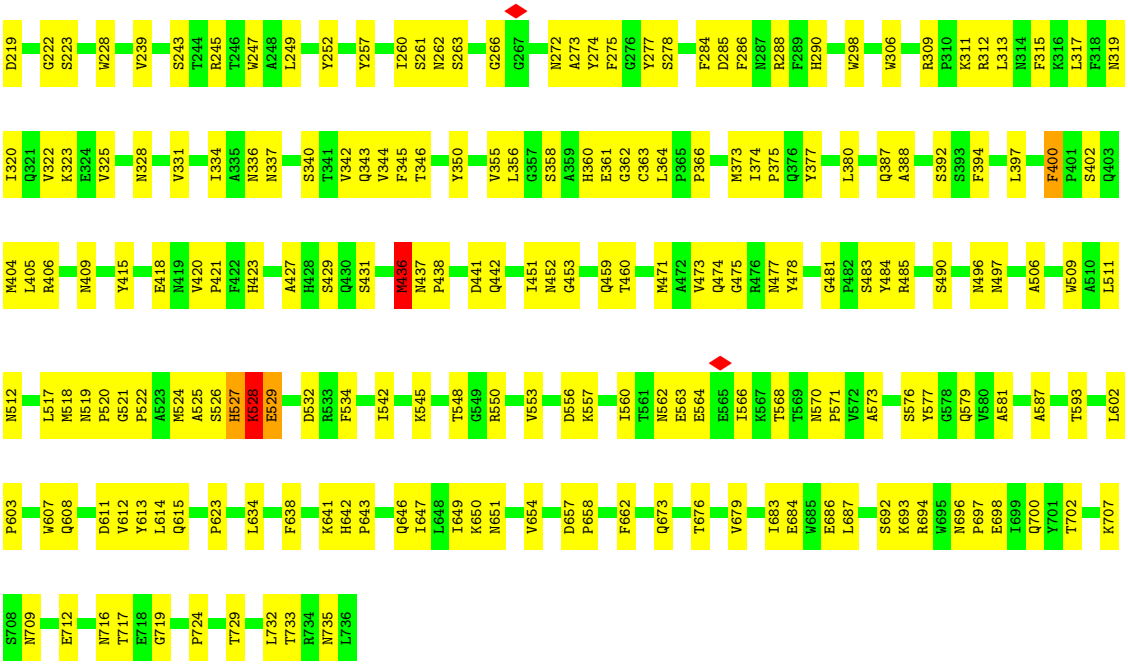
Chain m:





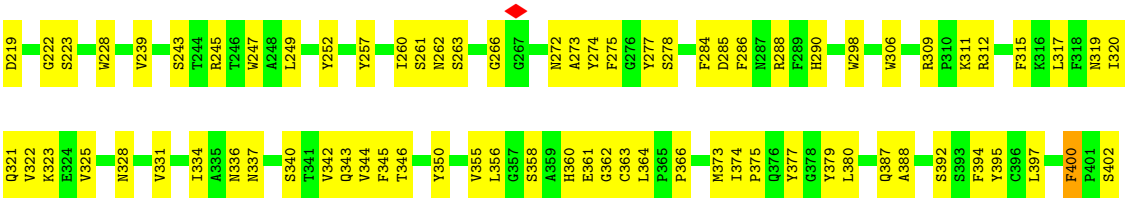
• Molecule 1: Capsid protein VP1

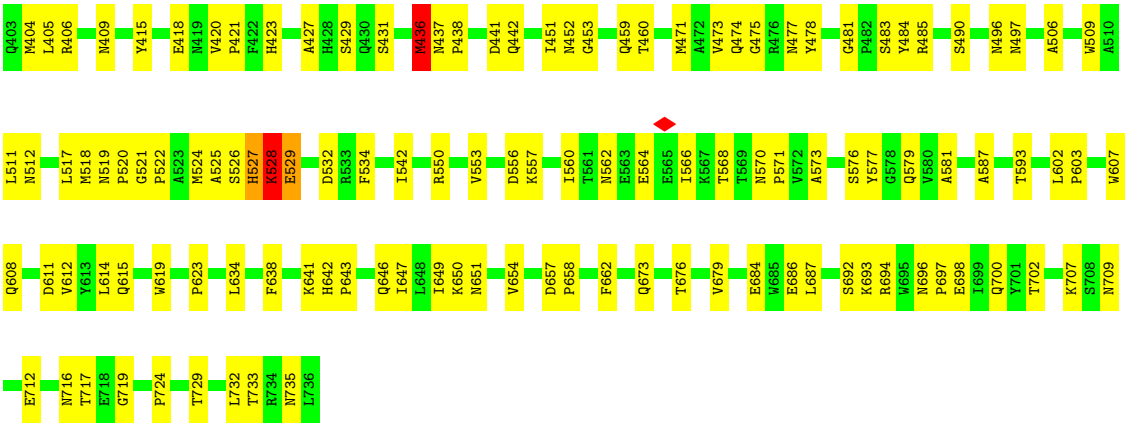
Chain n:



• Molecule 1: Capsid protein VP1

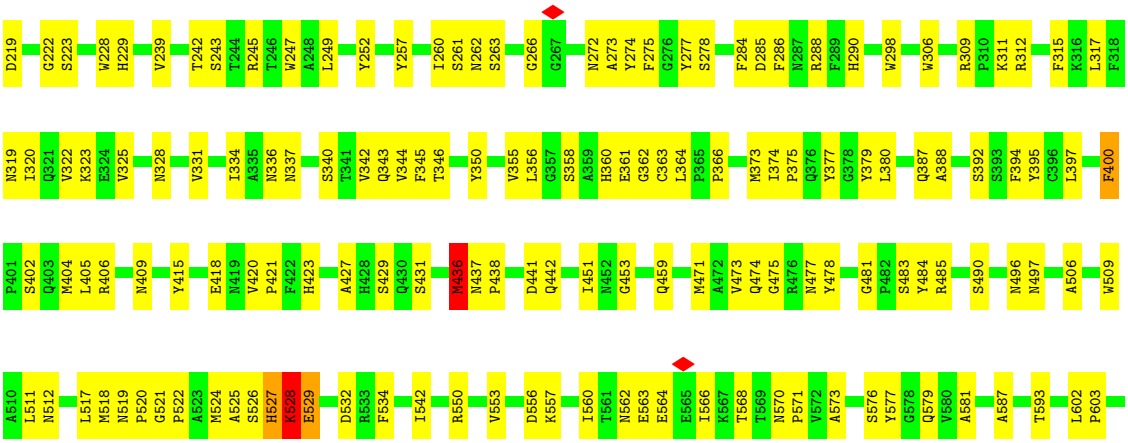
Chain o:





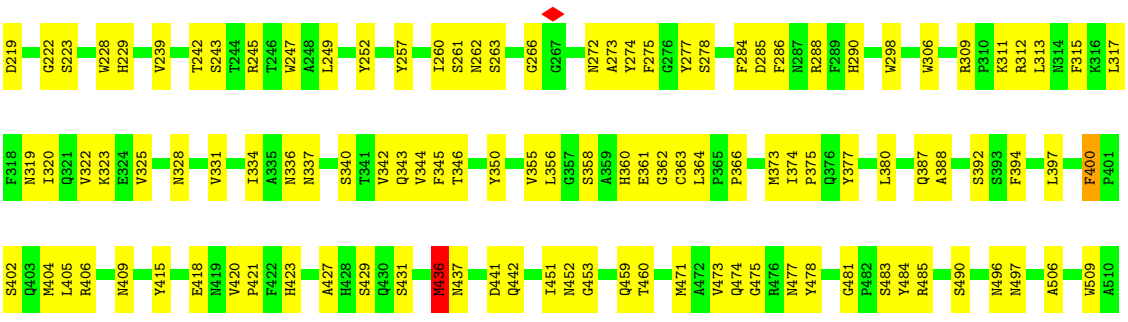
• Molecule 1: Capsid protein VP1

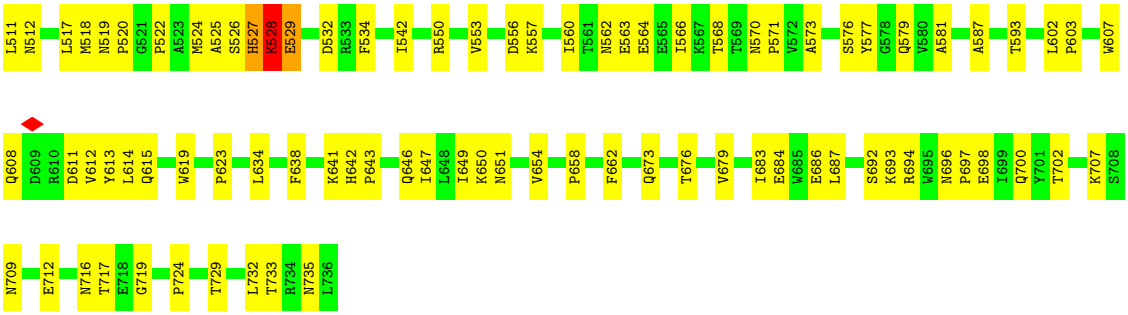
Chain p:



• Molecule 1: Capsid protein VP1

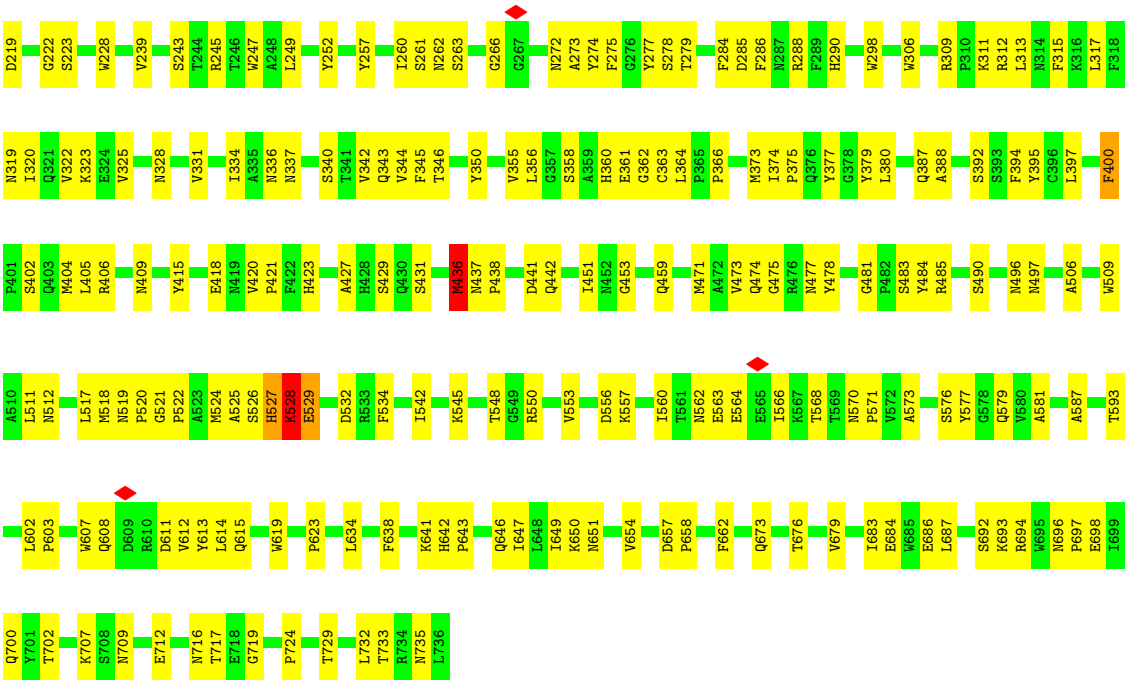
Chain q:





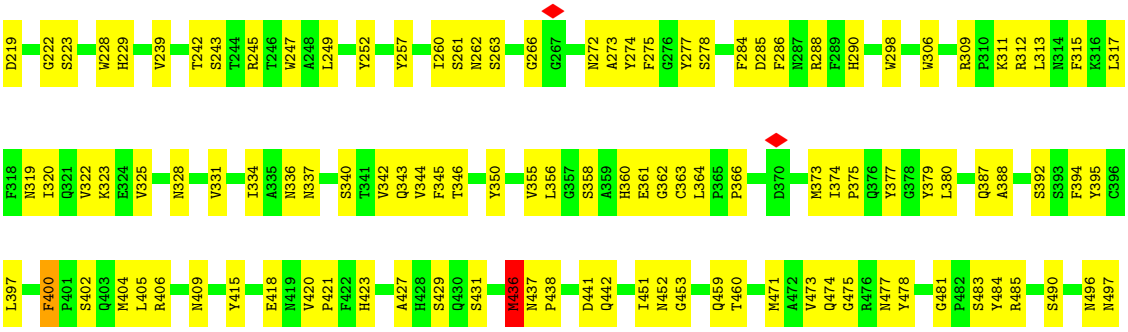
• Molecule 1: Capsid protein VP1

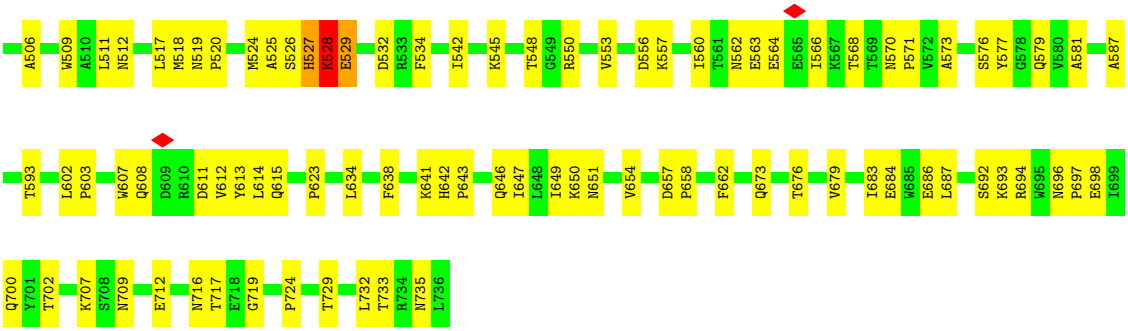
Chain r:



• Molecule 1: Capsid protein VP1

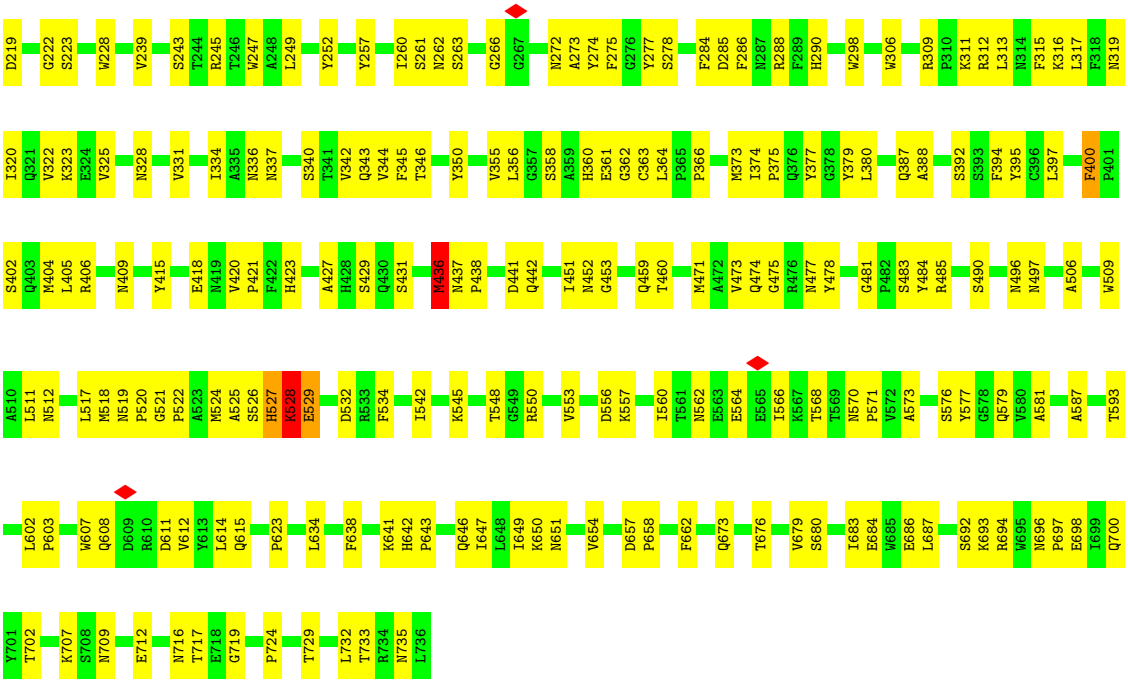
Chain s:





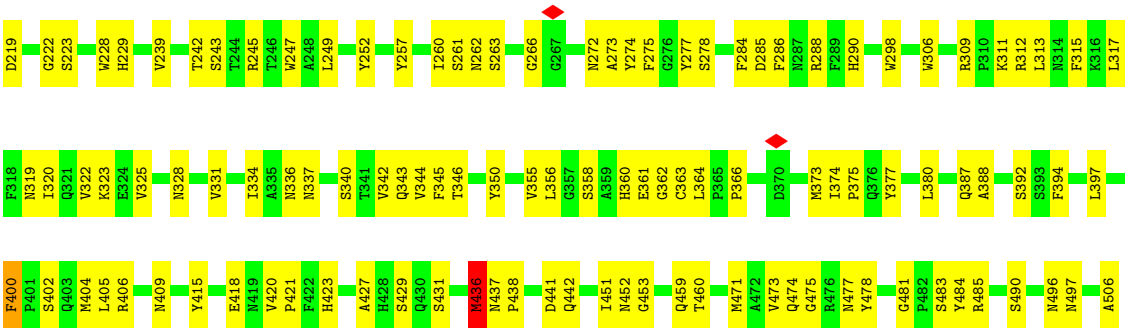
• Molecule 1: Capsid protein VP1

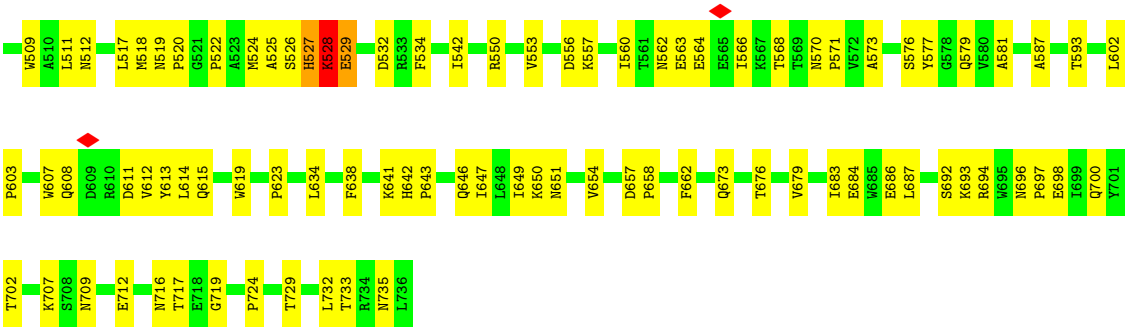
Chain t:



• Molecule 1: Capsid protein VP1

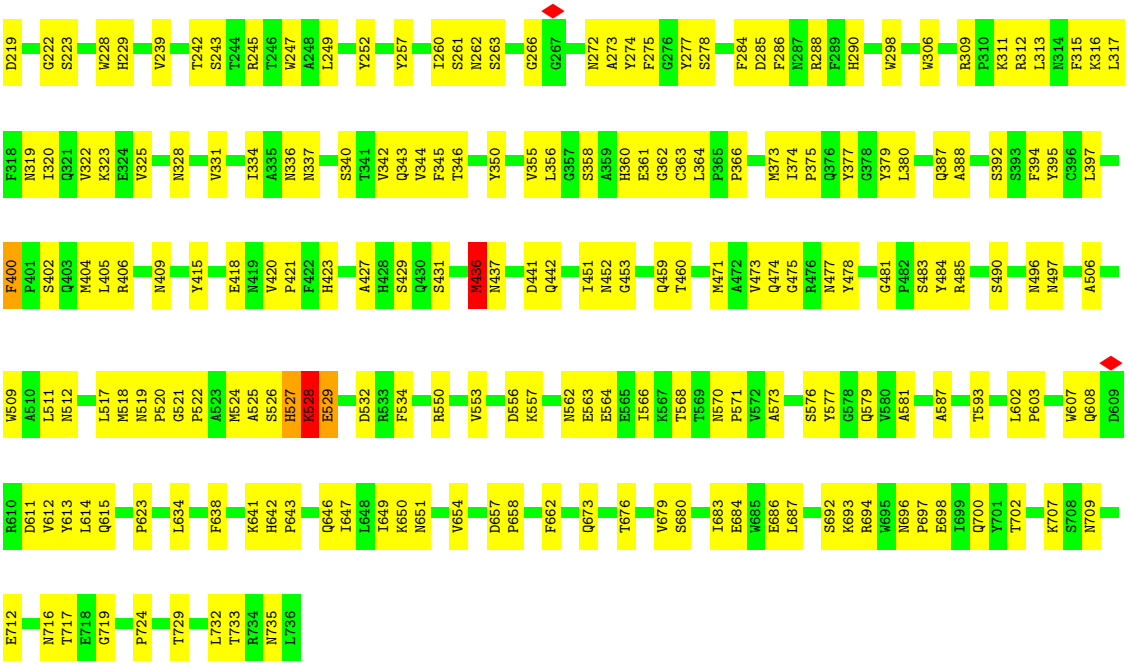
Chain u:





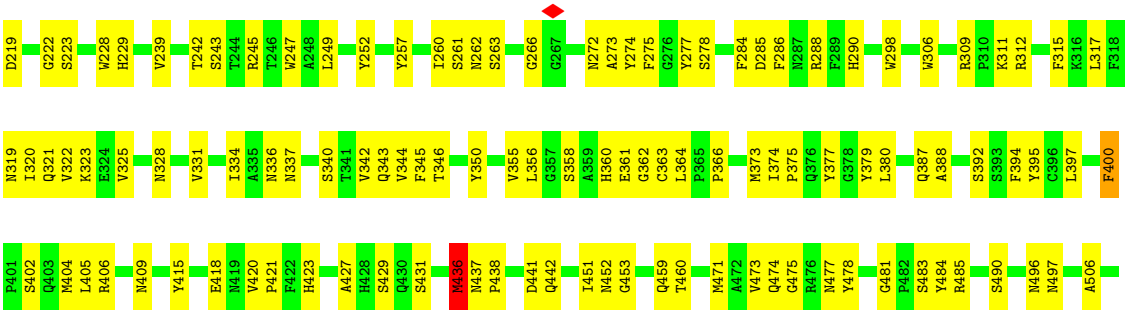
• Molecule 1: Capsid protein VP1

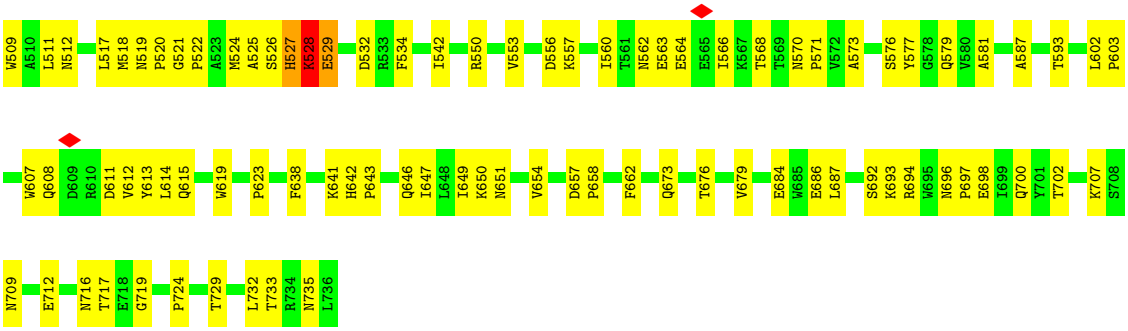
Chain v:



• Molecule 1: Capsid protein VP1

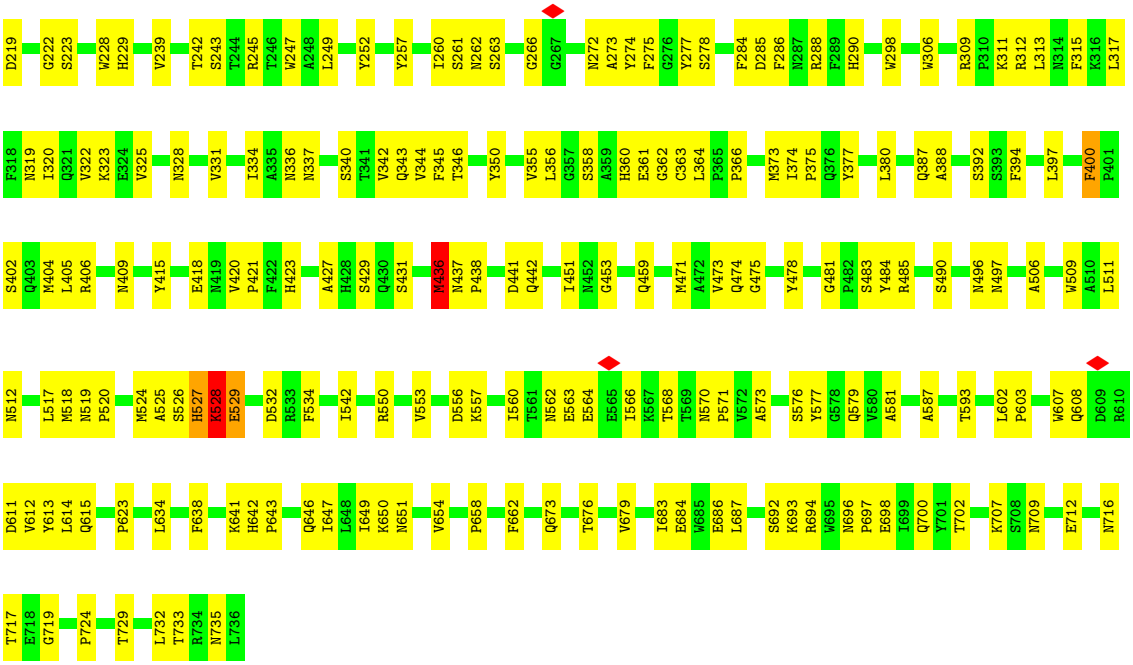
Chain w:





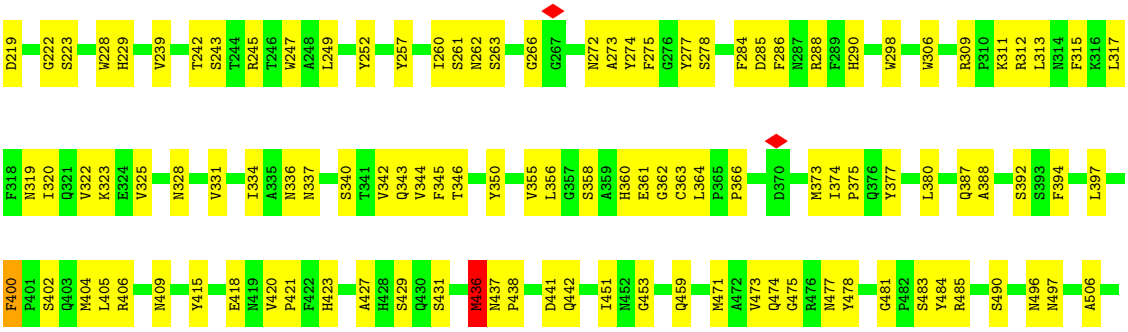
• Molecule 1: Capsid protein VP1

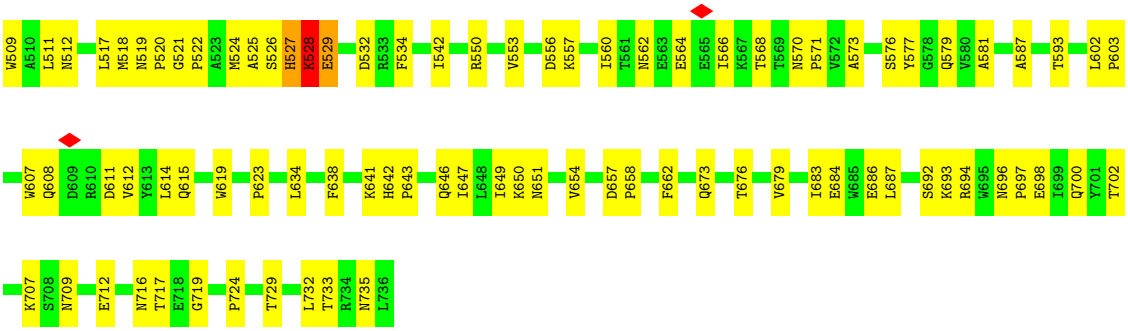
Chain x:



• Molecule 1: Capsid protein VP1

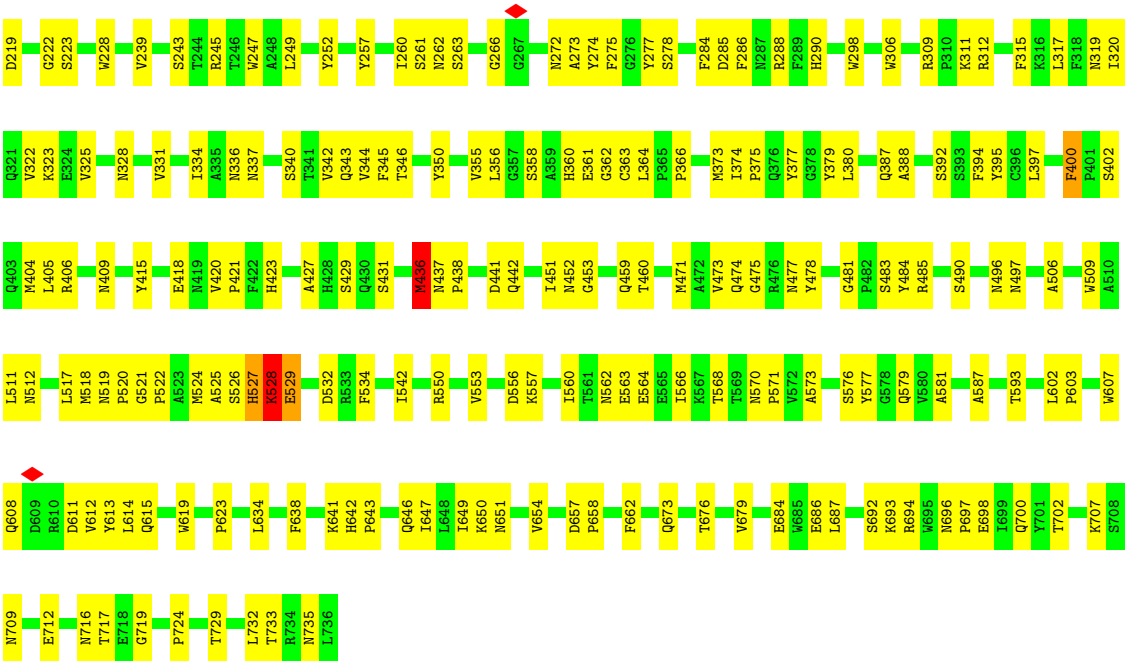
Chain y:





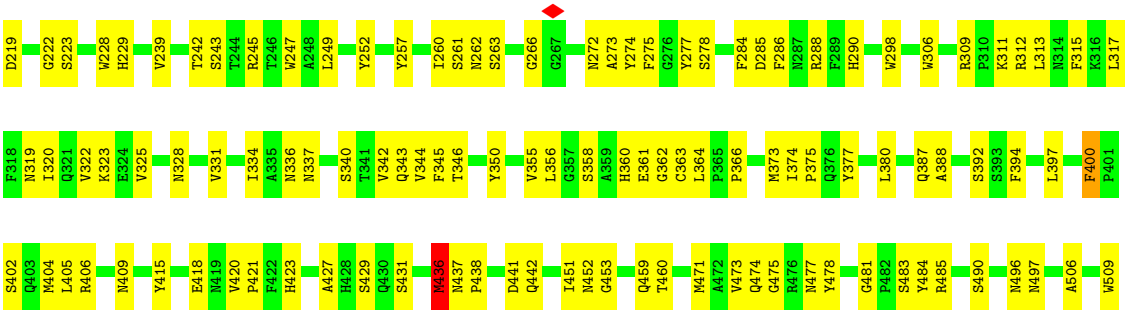
• Molecule 1: Capsid protein VP1

Chain z:



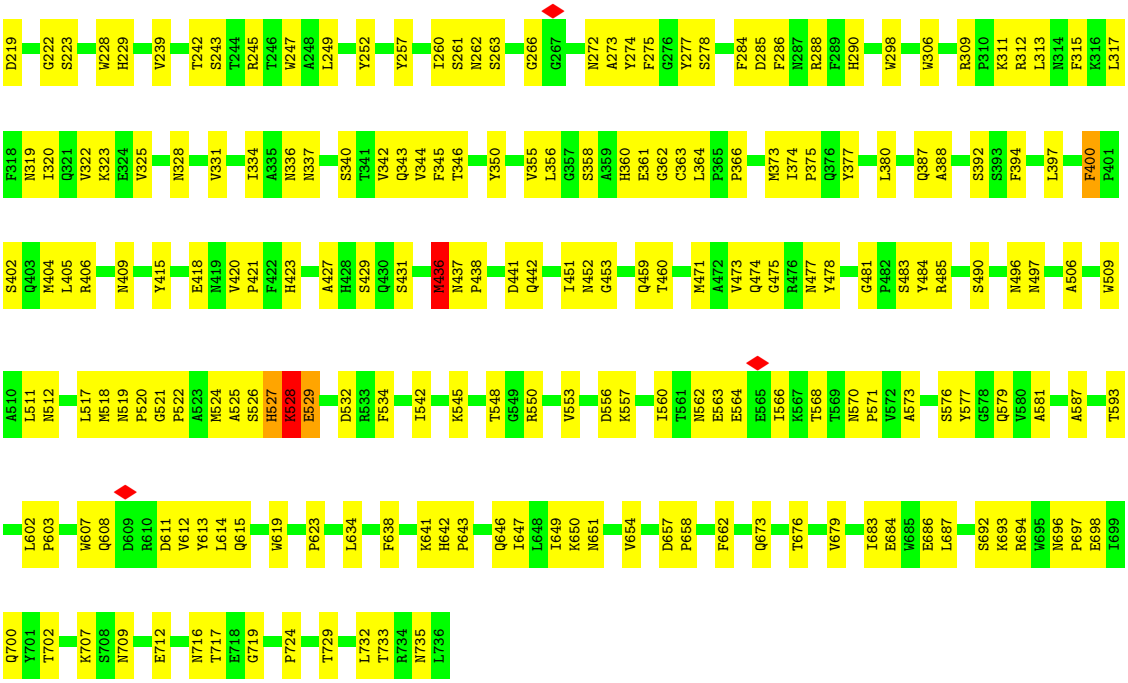
• Molecule 1: Capsid protein VP1

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	99899	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	27.988	Depositor
Minimum map value	-13.725	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	479.367, 479.367, 479.367	wwPDB
Map dimensions	441, 441, 441	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.087, 1.087, 1.087	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	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	2	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	3	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	4	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	5	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	6	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	7	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	8	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	A	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	B	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	C	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	D	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	E	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	F	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	G	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	H	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	I	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	J	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	K	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	L	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	M	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	N	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	O	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	P	0.47	1/4256 (0.0%)	0.75	9/5800 (0.2%)
1	Q	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	R	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	S	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	T	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	U	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	V	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	W	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	X	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	Y	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	Z	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	b	0.47	1/4256 (0.0%)	0.75	9/5800 (0.2%)
1	c	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	d	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	e	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	f	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	g	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	h	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	i	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	j	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	k	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	l	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	m	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	n	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	o	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	p	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	q	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	r	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	s	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	t	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	u	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	v	0.47	1/4256 (0.0%)	0.75	9/5800 (0.2%)
1	w	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	x	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	y	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
1	z	0.47	1/4256 (0.0%)	0.75	8/5800 (0.1%)
All	All	0.47	60/255360 (0.0%)	0.75	483/348000 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1	0	1
1	2	0	1
1	3	0	1
1	4	0	1
1	5	0	1
1	6	0	1
1	7	0	1
1	8	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
1	G	0	1
1	H	0	1
1	I	0	1
1	J	0	1
1	K	0	1
1	L	0	1
1	M	0	1
1	N	0	1
1	O	0	1
1	P	0	1
1	Q	0	1
1	R	0	1
1	S	0	1
1	T	0	1
1	U	0	1
1	V	0	1
1	W	0	1
1	X	0	1
1	Y	0	1
1	Z	0	1
1	a	0	1
1	b	0	1
1	c	0	1
1	d	0	1
1	e	0	1
1	f	0	1
1	g	0	1
1	h	0	1
1	i	0	1
1	j	0	1
1	k	0	1
1	l	0	1
1	m	0	1
1	n	0	1
1	o	0	1
1	p	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	1
1	r	0	1
1	s	0	1
1	t	0	1
1	u	0	1
1	v	0	1
1	w	0	1
1	x	0	1
1	y	0	1
1	z	0	1
All	All	0	60

All (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h	400	PHE	C-N	-8.05	1.15	1.33
1	n	400	PHE	C-N	-8.05	1.15	1.33
1	C	400	PHE	C-N	-8.05	1.15	1.33
1	I	400	PHE	C-N	-8.05	1.15	1.33
1	O	400	PHE	C-N	-8.05	1.15	1.33
1	W	400	PHE	C-N	-8.05	1.15	1.33
1	l	400	PHE	C-N	-8.05	1.15	1.33
1	s	400	PHE	C-N	-8.05	1.15	1.33
1	F	400	PHE	C-N	-8.04	1.15	1.33
1	Z	400	PHE	C-N	-8.04	1.15	1.33
1	d	400	PHE	C-N	-8.04	1.15	1.33
1	j	400	PHE	C-N	-8.04	1.15	1.33
1	G	400	PHE	C-N	-8.04	1.15	1.33
1	M	400	PHE	C-N	-8.04	1.15	1.33
1	S	400	PHE	C-N	-8.04	1.15	1.33
1	T	400	PHE	C-N	-8.04	1.15	1.33
1	7	400	PHE	C-N	-8.04	1.15	1.33
1	8	400	PHE	C-N	-8.04	1.15	1.33
1	K	400	PHE	C-N	-8.03	1.15	1.33
1	U	400	PHE	C-N	-8.03	1.15	1.33
1	4	400	PHE	C-N	-8.03	1.15	1.33
1	g	400	PHE	C-N	-8.03	1.15	1.33
1	y	400	PHE	C-N	-8.03	1.15	1.33
1	D	400	PHE	C-N	-8.03	1.15	1.33
1	H	400	PHE	C-N	-8.03	1.15	1.33
1	a	400	PHE	C-N	-8.03	1.15	1.33
1	k	400	PHE	C-N	-8.03	1.15	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	r	400	PHE	C-N	-8.03	1.15	1.33
1	t	400	PHE	C-N	-8.03	1.15	1.33
1	A	400	PHE	C-N	-8.02	1.15	1.33
1	P	400	PHE	C-N	-8.02	1.15	1.33
1	R	400	PHE	C-N	-8.02	1.15	1.33
1	Y	400	PHE	C-N	-8.02	1.15	1.33
1	1	400	PHE	C-N	-8.02	1.15	1.33
1	2	400	PHE	C-N	-8.02	1.15	1.33
1	b	400	PHE	C-N	-8.02	1.15	1.33
1	f	400	PHE	C-N	-8.02	1.15	1.33
1	m	400	PHE	C-N	-8.02	1.15	1.33
1	q	400	PHE	C-N	-8.02	1.15	1.33
1	v	400	PHE	C-N	-8.02	1.15	1.33
1	z	400	PHE	C-N	-8.02	1.15	1.33
1	B	400	PHE	C-N	-8.02	1.15	1.33
1	E	400	PHE	C-N	-8.02	1.15	1.33
1	L	400	PHE	C-N	-8.02	1.15	1.33
1	V	400	PHE	C-N	-8.02	1.15	1.33
1	e	400	PHE	C-N	-8.02	1.15	1.33
1	x	400	PHE	C-N	-8.02	1.15	1.33
1	3	400	PHE	C-N	-8.01	1.15	1.33
1	i	400	PHE	C-N	-8.01	1.15	1.33
1	J	400	PHE	C-N	-8.01	1.15	1.33
1	X	400	PHE	C-N	-8.01	1.15	1.33
1	5	400	PHE	C-N	-8.01	1.15	1.33
1	o	400	PHE	C-N	-8.01	1.15	1.33
1	p	400	PHE	C-N	-8.01	1.15	1.33
1	6	400	PHE	C-N	-8.01	1.15	1.33
1	u	400	PHE	C-N	-8.01	1.15	1.33
1	N	400	PHE	C-N	-7.99	1.15	1.33
1	Q	400	PHE	C-N	-7.98	1.15	1.33
1	c	400	PHE	C-N	-7.98	1.15	1.33
1	w	400	PHE	C-N	-7.98	1.15	1.33

All (483) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	527	HIS	N-CA-C	-23.58	73.82	110.36
1	b	527	HIS	N-CA-C	-23.58	73.82	110.36
1	v	527	HIS	N-CA-C	-23.58	73.82	110.36
1	I	527	HIS	N-CA-C	-23.57	73.83	110.36
1	R	527	HIS	N-CA-C	-23.57	73.82	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	527	HIS	N-CA-C	-23.57	73.82	110.36
1	1	527	HIS	N-CA-C	-23.57	73.82	110.36
1	m	527	HIS	N-CA-C	-23.57	73.82	110.36
1	q	527	HIS	N-CA-C	-23.57	73.82	110.36
1	z	527	HIS	N-CA-C	-23.57	73.82	110.36
1	X	527	HIS	N-CA-C	-23.57	73.83	110.36
1	5	527	HIS	N-CA-C	-23.57	73.83	110.36
1	o	527	HIS	N-CA-C	-23.57	73.83	110.36
1	p	527	HIS	N-CA-C	-23.57	73.83	110.36
1	V	527	HIS	N-CA-C	-23.57	73.83	110.36
1	h	527	HIS	N-CA-C	-23.57	73.83	110.36
1	n	527	HIS	N-CA-C	-23.57	73.83	110.36
1	N	527	HIS	N-CA-C	-23.57	73.83	110.36
1	M	527	HIS	N-CA-C	-23.57	73.83	110.36
1	k	527	HIS	N-CA-C	-23.57	73.83	110.36
1	r	527	HIS	N-CA-C	-23.57	73.83	110.36
1	B	527	HIS	N-CA-C	-23.56	73.84	110.36
1	L	527	HIS	N-CA-C	-23.56	73.84	110.36
1	W	527	HIS	N-CA-C	-23.56	73.84	110.36
1	3	527	HIS	N-CA-C	-23.56	73.84	110.36
1	f	527	HIS	N-CA-C	-23.56	73.84	110.36
1	l	527	HIS	N-CA-C	-23.56	73.84	110.36
1	s	527	HIS	N-CA-C	-23.56	73.84	110.36
1	C	527	HIS	N-CA-C	-23.56	73.85	110.36
1	G	527	HIS	N-CA-C	-23.55	73.85	110.36
1	J	527	HIS	N-CA-C	-23.55	73.86	110.36
1	K	527	HIS	N-CA-C	-23.55	73.86	110.36
1	O	527	HIS	N-CA-C	-23.55	73.86	110.36
1	P	527	HIS	N-CA-C	-23.55	73.86	110.36
1	U	527	HIS	N-CA-C	-23.55	73.86	110.36
1	4	527	HIS	N-CA-C	-23.55	73.86	110.36
1	6	527	HIS	N-CA-C	-23.55	73.86	110.36
1	g	527	HIS	N-CA-C	-23.55	73.86	110.36
1	u	527	HIS	N-CA-C	-23.55	73.86	110.36
1	y	527	HIS	N-CA-C	-23.55	73.86	110.36
1	2	527	HIS	N-CA-C	-23.55	73.86	110.36
1	S	527	HIS	N-CA-C	-23.55	73.86	110.36
1	T	527	HIS	N-CA-C	-23.55	73.86	110.36
1	7	527	HIS	N-CA-C	-23.55	73.86	110.36
1	8	527	HIS	N-CA-C	-23.55	73.86	110.36
1	D	527	HIS	N-CA-C	-23.55	73.86	110.36
1	a	527	HIS	N-CA-C	-23.55	73.86	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	527	HIS	N-CA-C	-23.55	73.86	110.36
1	A	527	HIS	N-CA-C	-23.54	73.87	110.36
1	E	527	HIS	N-CA-C	-23.54	73.87	110.36
1	F	527	HIS	N-CA-C	-23.54	73.87	110.36
1	Q	527	HIS	N-CA-C	-23.54	73.87	110.36
1	Z	527	HIS	N-CA-C	-23.54	73.87	110.36
1	c	527	HIS	N-CA-C	-23.54	73.87	110.36
1	d	527	HIS	N-CA-C	-23.54	73.87	110.36
1	e	527	HIS	N-CA-C	-23.54	73.87	110.36
1	i	527	HIS	N-CA-C	-23.54	73.87	110.36
1	j	527	HIS	N-CA-C	-23.54	73.87	110.36
1	w	527	HIS	N-CA-C	-23.54	73.87	110.36
1	x	527	HIS	N-CA-C	-23.54	73.87	110.36
1	D	528	LYS	N-CA-C	-23.10	76.38	109.18
1	M	528	LYS	N-CA-C	-23.10	76.38	109.18
1	Z	528	LYS	N-CA-C	-23.10	76.38	109.18
1	A	528	LYS	N-CA-C	-23.09	76.39	109.18
1	H	528	LYS	N-CA-C	-23.09	76.39	109.18
1	2	528	LYS	N-CA-C	-23.09	76.39	109.18
1	5	528	LYS	N-CA-C	-23.09	76.39	109.18
1	k	528	LYS	N-CA-C	-23.09	76.39	109.18
1	o	528	LYS	N-CA-C	-23.09	76.39	109.18
1	r	528	LYS	N-CA-C	-23.09	76.39	109.18
1	C	528	LYS	N-CA-C	-23.09	76.39	109.18
1	E	528	LYS	N-CA-C	-23.09	76.39	109.18
1	F	528	LYS	N-CA-C	-23.09	76.39	109.18
1	G	528	LYS	N-CA-C	-23.09	76.39	109.18
1	I	528	LYS	N-CA-C	-23.09	76.39	109.18
1	a	528	LYS	N-CA-C	-23.09	76.39	109.18
1	d	528	LYS	N-CA-C	-23.09	76.39	109.18
1	j	528	LYS	N-CA-C	-23.09	76.39	109.18
1	t	528	LYS	N-CA-C	-23.09	76.39	109.18
1	W	528	LYS	N-CA-C	-23.09	76.40	109.18
1	l	528	LYS	N-CA-C	-23.09	76.40	109.18
1	s	528	LYS	N-CA-C	-23.09	76.40	109.18
1	g	528	LYS	N-CA-C	-23.08	76.41	109.18
1	Q	528	LYS	N-CA-C	-23.07	76.41	109.18
1	S	528	LYS	N-CA-C	-23.07	76.41	109.18
1	T	528	LYS	N-CA-C	-23.07	76.41	109.18
1	c	528	LYS	N-CA-C	-23.07	76.41	109.18
1	e	528	LYS	N-CA-C	-23.07	76.41	109.18
1	i	528	LYS	N-CA-C	-23.07	76.41	109.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	w	528	LYS	N-CA-C	-23.07	76.41	109.18
1	x	528	LYS	N-CA-C	-23.07	76.41	109.18
1	7	528	LYS	N-CA-C	-23.07	76.41	109.18
1	8	528	LYS	N-CA-C	-23.07	76.41	109.18
1	P	528	LYS	N-CA-C	-23.07	76.42	109.18
1	R	528	LYS	N-CA-C	-23.07	76.42	109.18
1	f	528	LYS	N-CA-C	-23.07	76.42	109.18
1	B	528	LYS	N-CA-C	-23.07	76.42	109.18
1	J	528	LYS	N-CA-C	-23.07	76.42	109.18
1	L	528	LYS	N-CA-C	-23.07	76.42	109.18
1	O	528	LYS	N-CA-C	-23.07	76.42	109.18
1	V	528	LYS	N-CA-C	-23.07	76.42	109.18
1	X	528	LYS	N-CA-C	-23.07	76.42	109.18
1	Y	528	LYS	N-CA-C	-23.07	76.42	109.18
1	1	528	LYS	N-CA-C	-23.07	76.42	109.18
1	b	528	LYS	N-CA-C	-23.07	76.42	109.18
1	h	528	LYS	N-CA-C	-23.07	76.42	109.18
1	m	528	LYS	N-CA-C	-23.07	76.42	109.18
1	p	528	LYS	N-CA-C	-23.07	76.42	109.18
1	q	528	LYS	N-CA-C	-23.07	76.42	109.18
1	v	528	LYS	N-CA-C	-23.07	76.42	109.18
1	z	528	LYS	N-CA-C	-23.07	76.42	109.18
1	K	528	LYS	N-CA-C	-23.07	76.42	109.18
1	U	528	LYS	N-CA-C	-23.07	76.42	109.18
1	4	528	LYS	N-CA-C	-23.07	76.42	109.18
1	6	528	LYS	N-CA-C	-23.07	76.42	109.18
1	u	528	LYS	N-CA-C	-23.07	76.42	109.18
1	y	528	LYS	N-CA-C	-23.07	76.42	109.18
1	3	528	LYS	N-CA-C	-23.07	76.43	109.18
1	N	528	LYS	N-CA-C	-23.06	76.43	109.18
1	n	528	LYS	N-CA-C	-23.06	76.43	109.18
1	m	529	GLU	N-CA-C	17.35	129.88	110.97
1	q	529	GLU	N-CA-C	17.35	129.88	110.97
1	Y	529	GLU	N-CA-C	17.34	129.87	110.97
1	Q	529	GLU	N-CA-C	17.33	129.86	110.97
1	c	529	GLU	N-CA-C	17.33	129.86	110.97
1	w	529	GLU	N-CA-C	17.33	129.86	110.97
1	i	529	GLU	N-CA-C	17.32	129.85	110.97
1	S	529	GLU	N-CA-C	17.31	129.84	110.97
1	T	529	GLU	N-CA-C	17.31	129.84	110.97
1	7	529	GLU	N-CA-C	17.31	129.84	110.97
1	8	529	GLU	N-CA-C	17.31	129.84	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	V	529	GLU	N-CA-C	17.31	129.83	110.97
1	g	529	GLU	N-CA-C	17.31	129.83	110.97
1	h	529	GLU	N-CA-C	17.31	129.83	110.97
1	n	529	GLU	N-CA-C	17.31	129.83	110.97
1	K	529	GLU	N-CA-C	17.30	129.82	110.97
1	U	529	GLU	N-CA-C	17.30	129.82	110.97
1	4	529	GLU	N-CA-C	17.30	129.82	110.97
1	y	529	GLU	N-CA-C	17.30	129.82	110.97
1	C	529	GLU	N-CA-C	17.29	129.82	110.97
1	D	529	GLU	N-CA-C	17.29	129.81	110.97
1	E	529	GLU	N-CA-C	17.29	129.81	110.97
1	F	529	GLU	N-CA-C	17.29	129.81	110.97
1	R	529	GLU	N-CA-C	17.29	129.81	110.97
1	Z	529	GLU	N-CA-C	17.29	129.81	110.97
1	1	529	GLU	N-CA-C	17.29	129.81	110.97
1	b	529	GLU	N-CA-C	17.29	129.81	110.97
1	d	529	GLU	N-CA-C	17.29	129.81	110.97
1	f	529	GLU	N-CA-C	17.29	129.81	110.97
1	j	529	GLU	N-CA-C	17.29	129.81	110.97
1	v	529	GLU	N-CA-C	17.29	129.81	110.97
1	z	529	GLU	N-CA-C	17.29	129.81	110.97
1	I	529	GLU	N-CA-C	17.28	129.81	110.97
1	W	529	GLU	N-CA-C	17.28	129.81	110.97
1	l	529	GLU	N-CA-C	17.28	129.80	110.97
1	s	529	GLU	N-CA-C	17.28	129.80	110.97
1	O	529	GLU	N-CA-C	17.27	129.80	110.97
1	X	529	GLU	N-CA-C	17.27	129.80	110.97
1	p	529	GLU	N-CA-C	17.27	129.80	110.97
1	6	529	GLU	N-CA-C	17.27	129.79	110.97
1	u	529	GLU	N-CA-C	17.27	129.79	110.97
1	A	529	GLU	N-CA-C	17.26	129.79	110.97
1	N	529	GLU	N-CA-C	17.25	129.78	110.97
1	G	529	GLU	N-CA-C	17.25	129.77	110.97
1	J	529	GLU	N-CA-C	17.25	129.77	110.97
1	L	529	GLU	N-CA-C	17.25	129.77	110.97
1	5	529	GLU	N-CA-C	17.25	129.77	110.97
1	o	529	GLU	N-CA-C	17.25	129.77	110.97
1	H	529	GLU	N-CA-C	17.25	129.77	110.97
1	a	529	GLU	N-CA-C	17.25	129.77	110.97
1	t	529	GLU	N-CA-C	17.25	129.77	110.97
1	P	529	GLU	N-CA-C	17.24	129.76	110.97
1	2	529	GLU	N-CA-C	17.24	129.76	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	529	GLU	N-CA-C	17.24	129.76	110.97
1	e	529	GLU	N-CA-C	17.24	129.76	110.97
1	x	529	GLU	N-CA-C	17.24	129.76	110.97
1	B	529	GLU	N-CA-C	17.23	129.75	110.97
1	M	529	GLU	N-CA-C	17.23	129.75	110.97
1	k	529	GLU	N-CA-C	17.23	129.75	110.97
1	r	529	GLU	N-CA-C	17.23	129.75	110.97
1	D	529	GLU	N-CA-CB	-10.81	94.13	109.91
1	K	529	GLU	N-CA-CB	-10.81	94.13	109.91
1	U	529	GLU	N-CA-CB	-10.81	94.13	109.91
1	4	529	GLU	N-CA-CB	-10.81	94.13	109.91
1	y	529	GLU	N-CA-CB	-10.81	94.13	109.91
1	6	529	GLU	N-CA-CB	-10.80	94.14	109.91
1	u	529	GLU	N-CA-CB	-10.80	94.14	109.91
1	Q	529	GLU	N-CA-CB	-10.80	94.14	109.91
1	c	529	GLU	N-CA-CB	-10.80	94.14	109.91
1	w	529	GLU	N-CA-CB	-10.80	94.14	109.91
1	m	529	GLU	N-CA-CB	-10.79	94.16	109.91
1	q	529	GLU	N-CA-CB	-10.79	94.16	109.91
1	e	529	GLU	N-CA-CB	-10.79	94.16	109.91
1	i	529	GLU	N-CA-CB	-10.79	94.16	109.91
1	x	529	GLU	N-CA-CB	-10.79	94.16	109.91
1	M	529	GLU	N-CA-CB	-10.78	94.17	109.91
1	k	529	GLU	N-CA-CB	-10.78	94.17	109.91
1	r	529	GLU	N-CA-CB	-10.78	94.17	109.91
1	S	529	GLU	N-CA-CB	-10.78	94.17	109.91
1	T	529	GLU	N-CA-CB	-10.78	94.17	109.91
1	Y	529	GLU	N-CA-CB	-10.78	94.17	109.91
1	7	529	GLU	N-CA-CB	-10.78	94.17	109.91
1	8	529	GLU	N-CA-CB	-10.78	94.17	109.91
1	5	529	GLU	N-CA-CB	-10.78	94.17	109.91
1	o	529	GLU	N-CA-CB	-10.78	94.17	109.91
1	N	529	GLU	N-CA-CB	-10.78	94.18	109.91
1	X	529	GLU	N-CA-CB	-10.78	94.18	109.91
1	p	529	GLU	N-CA-CB	-10.78	94.18	109.91
1	E	529	GLU	N-CA-CB	-10.77	94.18	109.91
1	F	529	GLU	N-CA-CB	-10.77	94.18	109.91
1	I	529	GLU	N-CA-CB	-10.77	94.18	109.91
1	W	529	GLU	N-CA-CB	-10.77	94.18	109.91
1	Z	529	GLU	N-CA-CB	-10.77	94.18	109.91
1	d	529	GLU	N-CA-CB	-10.77	94.18	109.91
1	g	529	GLU	N-CA-CB	-10.77	94.18	109.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	529	GLU	N-CA-CB	-10.77	94.18	109.91
1	l	529	GLU	N-CA-CB	-10.77	94.18	109.91
1	s	529	GLU	N-CA-CB	-10.77	94.18	109.91
1	V	529	GLU	N-CA-CB	-10.77	94.19	109.91
1	h	529	GLU	N-CA-CB	-10.77	94.19	109.91
1	n	529	GLU	N-CA-CB	-10.77	94.19	109.91
1	C	529	GLU	N-CA-CB	-10.77	94.19	109.91
1	P	529	GLU	N-CA-CB	-10.77	94.19	109.91
1	2	529	GLU	N-CA-CB	-10.77	94.19	109.91
1	B	529	GLU	N-CA-CB	-10.76	94.20	109.91
1	3	529	GLU	N-CA-CB	-10.76	94.20	109.91
1	G	529	GLU	N-CA-CB	-10.76	94.20	109.91
1	J	529	GLU	N-CA-CB	-10.76	94.20	109.91
1	L	529	GLU	N-CA-CB	-10.76	94.20	109.91
1	O	529	GLU	N-CA-CB	-10.76	94.20	109.91
1	A	529	GLU	N-CA-CB	-10.76	94.20	109.91
1	b	529	GLU	N-CA-CB	-10.76	94.20	109.91
1	v	529	GLU	N-CA-CB	-10.76	94.20	109.91
1	H	529	GLU	N-CA-CB	-10.75	94.21	109.91
1	a	529	GLU	N-CA-CB	-10.75	94.21	109.91
1	t	529	GLU	N-CA-CB	-10.75	94.21	109.91
1	R	529	GLU	N-CA-CB	-10.75	94.22	109.91
1	1	529	GLU	N-CA-CB	-10.75	94.22	109.91
1	f	529	GLU	N-CA-CB	-10.75	94.22	109.91
1	z	529	GLU	N-CA-CB	-10.75	94.22	109.91
1	V	528	LYS	N-CA-CB	-7.57	99.27	111.22
1	h	528	LYS	N-CA-CB	-7.57	99.27	111.22
1	Y	528	LYS	N-CA-CB	-7.56	99.27	111.22
1	1	528	LYS	N-CA-CB	-7.56	99.27	111.22
1	b	528	LYS	N-CA-CB	-7.56	99.27	111.22
1	m	528	LYS	N-CA-CB	-7.56	99.27	111.22
1	q	528	LYS	N-CA-CB	-7.56	99.27	111.22
1	v	528	LYS	N-CA-CB	-7.56	99.27	111.22
1	z	528	LYS	N-CA-CB	-7.56	99.27	111.22
1	B	528	LYS	N-CA-CB	-7.56	99.28	111.22
1	J	528	LYS	N-CA-CB	-7.56	99.28	111.22
1	L	528	LYS	N-CA-CB	-7.56	99.28	111.22
1	O	528	LYS	N-CA-CB	-7.56	99.28	111.22
1	X	528	LYS	N-CA-CB	-7.56	99.28	111.22
1	6	528	LYS	N-CA-CB	-7.56	99.28	111.22
1	p	528	LYS	N-CA-CB	-7.56	99.28	111.22
1	u	528	LYS	N-CA-CB	-7.56	99.28	111.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	528	LYS	N-CA-CB	-7.56	99.28	111.22
1	M	528	LYS	N-CA-CB	-7.56	99.28	111.22
1	3	528	LYS	N-CA-CB	-7.55	99.28	111.22
1	N	528	LYS	N-CA-CB	-7.55	99.29	111.22
1	G	528	LYS	N-CA-CB	-7.55	99.29	111.22
1	K	528	LYS	N-CA-CB	-7.55	99.29	111.22
1	U	528	LYS	N-CA-CB	-7.55	99.29	111.22
1	4	528	LYS	N-CA-CB	-7.55	99.29	111.22
1	y	528	LYS	N-CA-CB	-7.55	99.29	111.22
1	g	528	LYS	N-CA-CB	-7.54	99.30	111.22
1	2	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	a	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	t	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	A	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	P	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	Q	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	R	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	S	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	T	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	c	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	e	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	f	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	i	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	w	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	x	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	7	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	8	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	W	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	l	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	s	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	C	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	I	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	Z	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	n	528	LYS	N-CA-CB	-7.54	99.31	111.22
1	H	528	LYS	N-CA-CB	-7.53	99.32	111.22
1	k	528	LYS	N-CA-CB	-7.53	99.32	111.22
1	r	528	LYS	N-CA-CB	-7.53	99.32	111.22
1	5	528	LYS	N-CA-CB	-7.53	99.32	111.22
1	o	528	LYS	N-CA-CB	-7.53	99.32	111.22
1	E	528	LYS	N-CA-CB	-7.52	99.34	111.22
1	F	528	LYS	N-CA-CB	-7.52	99.34	111.22
1	d	528	LYS	N-CA-CB	-7.52	99.34	111.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	528	LYS	N-CA-CB	-7.52	99.34	111.22
1	2	528	LYS	CB-CA-C	-7.17	96.06	111.11
1	V	528	LYS	CB-CA-C	-7.17	96.06	111.11
1	h	528	LYS	CB-CA-C	-7.17	96.06	111.11
1	n	528	LYS	CB-CA-C	-7.17	96.06	111.11
1	G	528	LYS	CB-CA-C	-7.16	96.06	111.11
1	A	528	LYS	CB-CA-C	-7.15	96.09	111.11
1	L	528	LYS	CB-CA-C	-7.15	96.09	111.11
1	g	528	LYS	CB-CA-C	-7.15	96.09	111.11
1	P	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	R	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	S	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	T	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	Y	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	1	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	a	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	b	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	f	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	m	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	q	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	t	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	v	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	z	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	7	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	8	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	E	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	F	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	W	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	Z	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	d	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	j	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	l	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	s	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	N	528	LYS	CB-CA-C	-7.15	96.10	111.11
1	Q	528	LYS	CB-CA-C	-7.14	96.11	111.11
1	c	528	LYS	CB-CA-C	-7.14	96.11	111.11
1	e	528	LYS	CB-CA-C	-7.14	96.11	111.11
1	i	528	LYS	CB-CA-C	-7.14	96.11	111.11
1	w	528	LYS	CB-CA-C	-7.14	96.11	111.11
1	x	528	LYS	CB-CA-C	-7.14	96.11	111.11
1	B	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	J	528	LYS	CB-CA-C	-7.14	96.12	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	X	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	5	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	o	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	p	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	D	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	H	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	K	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	M	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	U	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	4	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	k	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	r	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	y	528	LYS	CB-CA-C	-7.14	96.12	111.11
1	3	528	LYS	CB-CA-C	-7.13	96.13	111.11
1	C	528	LYS	CB-CA-C	-7.13	96.13	111.11
1	I	528	LYS	CB-CA-C	-7.13	96.13	111.11
1	6	528	LYS	CB-CA-C	-7.13	96.13	111.11
1	u	528	LYS	CB-CA-C	-7.13	96.13	111.11
1	W	527	HIS	CB-CA-C	6.26	125.56	111.78
1	l	527	HIS	CB-CA-C	6.26	125.56	111.78
1	s	527	HIS	CB-CA-C	6.26	125.56	111.78
1	Z	527	HIS	CB-CA-C	6.26	125.56	111.78
1	g	527	HIS	CB-CA-C	6.26	125.56	111.78
1	J	527	HIS	CB-CA-C	6.26	125.56	111.78
1	X	527	HIS	CB-CA-C	6.26	125.56	111.78
1	p	527	HIS	CB-CA-C	6.26	125.56	111.78
1	8	527	HIS	CB-CA-C	6.26	125.55	111.78
1	E	527	HIS	CB-CA-C	6.26	125.55	111.78
1	F	527	HIS	CB-CA-C	6.26	125.55	111.78
1	G	527	HIS	CB-CA-C	6.26	125.55	111.78
1	Q	527	HIS	CB-CA-C	6.26	125.55	111.78
1	c	527	HIS	CB-CA-C	6.26	125.55	111.78
1	d	527	HIS	CB-CA-C	6.26	125.55	111.78
1	e	527	HIS	CB-CA-C	6.26	125.55	111.78
1	i	527	HIS	CB-CA-C	6.26	125.55	111.78
1	j	527	HIS	CB-CA-C	6.26	125.55	111.78
1	w	527	HIS	CB-CA-C	6.26	125.55	111.78
1	x	527	HIS	CB-CA-C	6.26	125.55	111.78
1	B	527	HIS	CB-CA-C	6.25	125.54	111.78
1	6	527	HIS	CB-CA-C	6.25	125.54	111.78
1	u	527	HIS	CB-CA-C	6.25	125.54	111.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	527	HIS	CB-CA-C	6.25	125.53	111.78
1	S	527	HIS	CB-CA-C	6.25	125.53	111.78
1	T	527	HIS	CB-CA-C	6.25	125.53	111.78
1	f	527	HIS	CB-CA-C	6.25	125.53	111.78
1	7	527	HIS	CB-CA-C	6.25	125.53	111.78
1	3	527	HIS	CB-CA-C	6.25	125.53	111.78
1	C	527	HIS	CB-CA-C	6.25	125.53	111.78
1	Y	527	HIS	CB-CA-C	6.25	125.53	111.78
1	q	527	HIS	CB-CA-C	6.25	125.53	111.78
1	5	527	HIS	CB-CA-C	6.25	125.52	111.78
1	o	527	HIS	CB-CA-C	6.25	125.52	111.78
1	O	527	HIS	CB-CA-C	6.25	125.52	111.78
1	R	527	HIS	CB-CA-C	6.24	125.51	111.78
1	1	527	HIS	CB-CA-C	6.24	125.51	111.78
1	b	527	HIS	CB-CA-C	6.24	125.51	111.78
1	m	527	HIS	CB-CA-C	6.24	125.51	111.78
1	v	527	HIS	CB-CA-C	6.24	125.51	111.78
1	z	527	HIS	CB-CA-C	6.24	125.51	111.78
1	I	527	HIS	CB-CA-C	6.24	125.50	111.78
1	A	527	HIS	CB-CA-C	6.24	125.50	111.78
1	D	527	HIS	CB-CA-C	6.24	125.50	111.78
1	L	527	HIS	CB-CA-C	6.24	125.50	111.78
1	M	527	HIS	CB-CA-C	6.24	125.50	111.78
1	V	527	HIS	CB-CA-C	6.24	125.50	111.78
1	2	527	HIS	CB-CA-C	6.24	125.50	111.78
1	a	527	HIS	CB-CA-C	6.24	125.50	111.78
1	h	527	HIS	CB-CA-C	6.24	125.50	111.78
1	k	527	HIS	CB-CA-C	6.24	125.50	111.78
1	n	527	HIS	CB-CA-C	6.24	125.50	111.78
1	r	527	HIS	CB-CA-C	6.24	125.50	111.78
1	t	527	HIS	CB-CA-C	6.24	125.50	111.78
1	K	527	HIS	CB-CA-C	6.23	125.49	111.78
1	N	527	HIS	CB-CA-C	6.23	125.49	111.78
1	U	527	HIS	CB-CA-C	6.23	125.49	111.78
1	4	527	HIS	CB-CA-C	6.23	125.49	111.78
1	y	527	HIS	CB-CA-C	6.23	125.49	111.78
1	H	527	HIS	CB-CA-C	6.23	125.48	111.78
1	X	436	MET	N-CA-C	5.80	117.99	109.24
1	5	436	MET	N-CA-C	5.80	117.99	109.24
1	o	436	MET	N-CA-C	5.80	117.99	109.24
1	p	436	MET	N-CA-C	5.80	117.99	109.24
1	C	436	MET	N-CA-C	5.79	117.99	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	436	MET	N-CA-C	5.79	117.99	109.24
1	M	436	MET	N-CA-C	5.79	117.99	109.24
1	k	436	MET	N-CA-C	5.79	117.99	109.24
1	r	436	MET	N-CA-C	5.79	117.99	109.24
1	Q	436	MET	N-CA-C	5.79	117.98	109.24
1	c	436	MET	N-CA-C	5.79	117.98	109.24
1	w	436	MET	N-CA-C	5.79	117.98	109.24
1	a	436	MET	N-CA-C	5.78	117.97	109.24
1	l	436	MET	N-CA-C	5.78	117.97	109.24
1	s	436	MET	N-CA-C	5.78	117.97	109.24
1	t	436	MET	N-CA-C	5.78	117.97	109.24
1	N	436	MET	N-CA-C	5.78	117.97	109.24
1	H	436	MET	N-CA-C	5.78	117.97	109.24
1	B	436	MET	N-CA-C	5.78	117.97	109.24
1	I	436	MET	N-CA-C	5.78	117.96	109.24
1	U	436	MET	N-CA-C	5.78	117.96	109.24
1	4	436	MET	N-CA-C	5.78	117.96	109.24
1	y	436	MET	N-CA-C	5.78	117.96	109.24
1	J	436	MET	N-CA-C	5.77	117.96	109.24
1	O	436	MET	N-CA-C	5.77	117.96	109.24
1	S	436	MET	N-CA-C	5.77	117.96	109.24
1	T	436	MET	N-CA-C	5.77	117.96	109.24
1	7	436	MET	N-CA-C	5.77	117.96	109.24
1	8	436	MET	N-CA-C	5.77	117.96	109.24
1	R	436	MET	N-CA-C	5.77	117.96	109.24
1	1	436	MET	N-CA-C	5.77	117.96	109.24
1	f	436	MET	N-CA-C	5.77	117.96	109.24
1	z	436	MET	N-CA-C	5.77	117.96	109.24
1	F	436	MET	N-CA-C	5.77	117.95	109.24
1	K	436	MET	N-CA-C	5.77	117.95	109.24
1	3	436	MET	N-CA-C	5.77	117.95	109.24
1	e	436	MET	N-CA-C	5.77	117.95	109.24
1	x	436	MET	N-CA-C	5.77	117.95	109.24
1	E	436	MET	N-CA-C	5.77	117.95	109.24
1	P	436	MET	N-CA-C	5.77	117.95	109.24
1	Z	436	MET	N-CA-C	5.77	117.95	109.24
1	d	436	MET	N-CA-C	5.77	117.95	109.24
1	i	436	MET	N-CA-C	5.77	117.95	109.24
1	j	436	MET	N-CA-C	5.77	117.95	109.24
1	L	436	MET	N-CA-C	5.77	117.95	109.24
1	V	436	MET	N-CA-C	5.77	117.95	109.24
1	W	436	MET	N-CA-C	5.77	117.95	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	436	MET	N-CA-C	5.77	117.95	109.24
1	g	436	MET	N-CA-C	5.77	117.95	109.24
1	h	436	MET	N-CA-C	5.77	117.95	109.24
1	n	436	MET	N-CA-C	5.77	117.95	109.24
1	u	436	MET	N-CA-C	5.77	117.95	109.24
1	A	436	MET	N-CA-C	5.76	117.94	109.24
1	Y	436	MET	N-CA-C	5.76	117.94	109.24
1	2	436	MET	N-CA-C	5.76	117.94	109.24
1	m	436	MET	N-CA-C	5.76	117.94	109.24
1	q	436	MET	N-CA-C	5.76	117.94	109.24
1	b	436	MET	N-CA-C	5.76	117.94	109.24
1	v	436	MET	N-CA-C	5.76	117.94	109.24
1	D	436	MET	N-CA-C	5.76	117.94	109.24
1	P	528	LYS	O-C-N	-5.01	115.83	122.74
1	b	528	LYS	O-C-N	-5.01	115.83	122.74
1	v	528	LYS	O-C-N	-5.01	115.83	122.74

There are no chirality outliers.

All (60) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	528	LYS	Mainchain
1	2	528	LYS	Mainchain
1	3	528	LYS	Mainchain
1	4	528	LYS	Mainchain
1	5	528	LYS	Mainchain
1	6	528	LYS	Mainchain
1	7	528	LYS	Mainchain
1	8	528	LYS	Mainchain
1	A	528	LYS	Mainchain
1	B	528	LYS	Mainchain
1	C	528	LYS	Mainchain
1	D	528	LYS	Mainchain
1	E	528	LYS	Mainchain
1	F	528	LYS	Mainchain
1	G	528	LYS	Mainchain
1	H	528	LYS	Mainchain
1	I	528	LYS	Mainchain
1	J	528	LYS	Mainchain
1	K	528	LYS	Mainchain
1	L	528	LYS	Mainchain
1	M	528	LYS	Mainchain

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Mol	Chain	Res	Type	Group
1	N	528	LYS	Mainchain
1	O	528	LYS	Mainchain
1	P	528	LYS	Mainchain
1	Q	528	LYS	Mainchain
1	R	528	LYS	Mainchain
1	S	528	LYS	Mainchain
1	T	528	LYS	Mainchain
1	U	528	LYS	Mainchain
1	V	528	LYS	Mainchain
1	W	528	LYS	Mainchain
1	X	528	LYS	Mainchain
1	Y	528	LYS	Mainchain
1	Z	528	LYS	Mainchain
1	a	528	LYS	Mainchain
1	b	528	LYS	Mainchain
1	c	528	LYS	Mainchain
1	d	528	LYS	Mainchain
1	e	528	LYS	Mainchain
1	f	528	LYS	Mainchain
1	g	528	LYS	Mainchain
1	h	528	LYS	Mainchain
1	i	528	LYS	Mainchain
1	j	528	LYS	Mainchain
1	k	528	LYS	Mainchain
1	l	528	LYS	Mainchain
1	m	528	LYS	Mainchain
1	n	528	LYS	Mainchain
1	o	528	LYS	Mainchain
1	p	528	LYS	Mainchain
1	q	528	LYS	Mainchain
1	r	528	LYS	Mainchain
1	s	528	LYS	Mainchain
1	t	528	LYS	Mainchain
1	u	528	LYS	Mainchain
1	v	528	LYS	Mainchain
1	w	528	LYS	Mainchain
1	x	528	LYS	Mainchain
1	y	528	LYS	Mainchain
1	z	528	LYS	Mainchain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4131	0	3885	179	0
1	2	4131	0	3885	183	0
1	3	4131	0	3885	179	0
1	4	4131	0	3885	184	0
1	5	4131	0	3885	185	0
1	6	4131	0	3885	178	0
1	7	4131	0	3885	186	0
1	8	4131	0	3885	188	0
1	A	4131	0	3885	183	0
1	B	4131	0	3885	181	0
1	C	4131	0	3885	182	0
1	D	4131	0	3885	182	0
1	E	4131	0	3885	183	0
1	F	4131	0	3885	183	0
1	G	4131	0	3885	185	0
1	H	4131	0	3885	185	0
1	I	4131	0	3885	182	0
1	J	4131	0	3885	181	0
1	K	4131	0	3885	182	0
1	L	4131	0	3885	183	0
1	M	4131	0	3885	183	0
1	N	4131	0	3885	178	0
1	O	4131	0	3885	186	0
1	P	4131	0	3885	179	0
1	Q	4131	0	3885	180	0
1	R	4131	0	3885	186	0
1	S	4131	0	3885	181	0
1	T	4131	0	3885	181	0
1	U	4131	0	3885	186	0
1	V	4131	0	3885	187	0
1	W	4131	0	3885	183	0
1	X	4131	0	3885	182	0
1	Y	4131	0	3885	181	0
1	Z	4131	0	3885	184	0
1	a	4131	0	3885	183	0
1	b	4131	0	3885	176	0
1	c	4131	0	3885	180	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	d	4131	0	3885	186	0
1	e	4131	0	3885	182	0
1	f	4131	0	3885	186	0
1	g	4131	0	3885	182	0
1	h	4131	0	3885	185	0
1	i	4131	0	3885	185	0
1	j	4131	0	3885	183	0
1	k	4131	0	3885	185	0
1	l	4131	0	3885	183	0
1	m	4131	0	3885	181	0
1	n	4131	0	3885	183	0
1	o	4131	0	3885	182	0
1	p	4131	0	3885	181	0
1	q	4131	0	3885	181	0
1	r	4131	0	3885	184	0
1	s	4131	0	3885	183	0
1	t	4131	0	3885	184	0
1	u	4131	0	3885	182	0
1	v	4131	0	3885	184	0
1	w	4131	0	3885	185	0
1	x	4131	0	3885	176	0
1	y	4131	0	3885	183	0
1	z	4131	0	3885	180	0
All	All	247860	0	233100	9059	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 19.

All (9059) 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:C:290:HIS:HD2	1:C:366:PRO:HB3	1.46	0.81
1:T:290:HIS:HD2	1:T:366:PRO:HB3	1.46	0.81
1:V:290:HIS:HD2	1:V:366:PRO:HB3	1.46	0.81
1:S:290:HIS:HD2	1:S:366:PRO:HB3	1.46	0.81
1:h:290:HIS:HD2	1:h:366:PRO:HB3	1.46	0.81
1:u:290:HIS:HD2	1:u:366:PRO:HB3	1.46	0.81
1:k:290:HIS:HD2	1:k:366:PRO:HB3	1.46	0.81
1:b:290:HIS:HD2	1:b:366:PRO:HB3	1.46	0.81
1:H:290:HIS:HD2	1:H:366:PRO:HB3	1.46	0.81
1:P:290:HIS:HD2	1:P:366:PRO:HB3	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:290:HIS:HD2	1:i:366:PRO:HB3	1.46	0.81
1:w:290:HIS:HD2	1:w:366:PRO:HB3	1.46	0.81
1:z:290:HIS:HD2	1:z:366:PRO:HB3	1.46	0.81
1:1:290:HIS:HD2	1:1:366:PRO:HB3	1.46	0.81
1:5:290:HIS:HD2	1:5:366:PRO:HB3	1.46	0.81
1:B:290:HIS:HD2	1:B:366:PRO:HB3	1.46	0.80
1:Q:290:HIS:HD2	1:Q:366:PRO:HB3	1.46	0.80
1:Z:290:HIS:HD2	1:Z:366:PRO:HB3	1.46	0.80
1:a:290:HIS:HD2	1:a:366:PRO:HB3	1.46	0.80
1:c:290:HIS:HD2	1:c:366:PRO:HB3	1.46	0.80
1:M:290:HIS:HD2	1:M:366:PRO:HB3	1.46	0.80
1:O:290:HIS:HD2	1:O:366:PRO:HB3	1.46	0.80
1:V:484:TYR:H	1:V:524:MET:HE1	1.47	0.80
1:h:484:TYR:H	1:h:524:MET:HE1	1.47	0.80
1:i:484:TYR:H	1:i:524:MET:HE1	1.47	0.80
1:j:290:HIS:HD2	1:j:366:PRO:HB3	1.46	0.80
1:p:290:HIS:HD2	1:p:366:PRO:HB3	1.46	0.80
1:v:290:HIS:HD2	1:v:366:PRO:HB3	1.46	0.80
1:D:484:TYR:H	1:D:524:MET:HE1	1.47	0.80
1:I:290:HIS:HD2	1:I:366:PRO:HB3	1.46	0.80
1:P:484:TYR:H	1:P:524:MET:HE1	1.47	0.80
1:s:290:HIS:HD2	1:s:366:PRO:HB3	1.46	0.80
1:w:484:TYR:H	1:w:524:MET:HE1	1.47	0.80
1:D:290:HIS:HD2	1:D:366:PRO:HB3	1.46	0.80
1:2:484:TYR:H	1:2:524:MET:HE1	1.47	0.80
1:3:484:TYR:H	1:3:524:MET:HE1	1.47	0.80
1:a:484:TYR:H	1:a:524:MET:HE1	1.47	0.80
1:b:484:TYR:H	1:b:524:MET:HE1	1.47	0.80
1:t:290:HIS:HD2	1:t:366:PRO:HB3	1.46	0.80
1:v:484:TYR:H	1:v:524:MET:HE1	1.47	0.80
1:x:484:TYR:H	1:x:524:MET:HE1	1.47	0.80
1:2:290:HIS:HD2	1:2:366:PRO:HB3	1.46	0.80
1:e:484:TYR:H	1:e:524:MET:HE1	1.47	0.80
1:r:290:HIS:HD2	1:r:366:PRO:HB3	1.46	0.80
1:F:290:HIS:HD2	1:F:366:PRO:HB3	1.46	0.80
1:N:290:HIS:HD2	1:N:366:PRO:HB3	1.46	0.80
1:1:484:TYR:H	1:1:524:MET:HE1	1.47	0.80
1:d:290:HIS:HD2	1:d:366:PRO:HB3	1.46	0.80
1:m:290:HIS:HD2	1:m:366:PRO:HB3	1.46	0.80
1:E:484:TYR:H	1:E:524:MET:HE1	1.47	0.80
1:Y:290:HIS:HD2	1:Y:366:PRO:HB3	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:484:TYR:H	1:d:524:MET:HE1	1.47	0.80
1:E:290:HIS:HD2	1:E:366:PRO:HB3	1.46	0.80
1:F:484:TYR:H	1:F:524:MET:HE1	1.47	0.80
1:G:290:HIS:HD2	1:G:366:PRO:HB3	1.46	0.80
1:U:290:HIS:HD2	1:U:366:PRO:HB3	1.46	0.80
1:z:484:TYR:H	1:z:524:MET:HE1	1.47	0.80
1:7:290:HIS:HD2	1:7:366:PRO:HB3	1.46	0.80
1:M:484:TYR:H	1:M:524:MET:HE1	1.47	0.80
1:6:290:HIS:HD2	1:6:366:PRO:HB3	1.46	0.80
1:J:484:TYR:H	1:J:524:MET:HE1	1.47	0.80
1:o:290:HIS:HD2	1:o:366:PRO:HB3	1.46	0.80
1:L:290:HIS:HD2	1:L:366:PRO:HB3	1.46	0.79
1:L:484:TYR:H	1:L:524:MET:HE1	1.47	0.79
1:4:290:HIS:HD2	1:4:366:PRO:HB3	1.46	0.79
1:e:290:HIS:HD2	1:e:366:PRO:HB3	1.46	0.79
1:o:484:TYR:H	1:o:524:MET:HE1	1.47	0.79
1:t:484:TYR:H	1:t:524:MET:HE1	1.47	0.79
1:8:290:HIS:HD2	1:8:366:PRO:HB3	1.46	0.79
1:I:484:TYR:H	1:I:524:MET:HE1	1.47	0.79
1:W:290:HIS:HD2	1:W:366:PRO:HB3	1.46	0.79
1:l:484:TYR:H	1:l:524:MET:HE1	1.47	0.79
1:s:484:TYR:H	1:s:524:MET:HE1	1.47	0.79
1:C:484:TYR:H	1:C:524:MET:HE1	1.47	0.79
1:M:373:MET:HE2	1:N:658:PRO:HB2	1.64	0.79
1:W:484:TYR:H	1:W:524:MET:HE1	1.47	0.79
1:c:484:TYR:H	1:c:524:MET:HE1	1.47	0.79
1:h:344:VAL:HG22	1:h:649:ILE:HG22	1.65	0.79
1:l:290:HIS:HD2	1:l:366:PRO:HB3	1.46	0.79
1:n:290:HIS:HD2	1:n:366:PRO:HB3	1.46	0.79
1:n:484:TYR:H	1:n:524:MET:HE1	1.47	0.79
1:q:290:HIS:HD2	1:q:366:PRO:HB3	1.46	0.79
1:u:484:TYR:H	1:u:524:MET:HE1	1.47	0.79
1:A:290:HIS:HD2	1:A:366:PRO:HB3	1.46	0.79
1:U:526:SER:C	1:U:527:HIS:O	2.14	0.79
1:V:344:VAL:HG22	1:V:649:ILE:HG22	1.65	0.79
1:4:526:SER:C	1:4:527:HIS:O	2.14	0.79
1:f:344:VAL:HG22	1:f:649:ILE:HG22	1.65	0.79
1:G:344:VAL:HG22	1:G:649:ILE:HG22	1.65	0.79
1:R:344:VAL:HG22	1:R:649:ILE:HG22	1.65	0.79
1:Z:484:TYR:H	1:Z:524:MET:HE1	1.47	0.79
1:E:344:VAL:HG22	1:E:649:ILE:HG22	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:526:SER:C	1:I:527:HIS:O	2.14	0.79
1:Q:344:VAL:HG22	1:Q:649:ILE:HG22	1.65	0.79
1:Q:484:TYR:H	1:Q:524:MET:HE1	1.47	0.79
1:S:484:TYR:H	1:S:524:MET:HE1	1.47	0.79
1:3:290:HIS:HD2	1:3:366:PRO:HB3	1.46	0.79
1:e:344:VAL:HG22	1:e:649:ILE:HG22	1.65	0.79
1:m:484:TYR:H	1:m:524:MET:HE1	1.47	0.79
1:r:344:VAL:HG22	1:r:649:ILE:HG22	1.65	0.79
1:t:344:VAL:HG22	1:t:649:ILE:HG22	1.65	0.79
1:J:290:HIS:HD2	1:J:366:PRO:HB3	1.46	0.79
1:K:484:TYR:H	1:K:524:MET:HE1	1.47	0.79
1:6:344:VAL:HG22	1:6:649:ILE:HG22	1.65	0.79
1:c:344:VAL:HG22	1:c:649:ILE:HG22	1.65	0.79
1:j:484:TYR:H	1:j:524:MET:HE1	1.47	0.79
1:k:344:VAL:HG22	1:k:649:ILE:HG22	1.65	0.79
1:r:484:TYR:H	1:r:524:MET:HE1	1.47	0.79
1:y:484:TYR:H	1:y:524:MET:HE1	1.47	0.79
1:z:344:VAL:HG22	1:z:649:ILE:HG22	1.65	0.79
1:G:484:TYR:H	1:G:524:MET:HE1	1.47	0.79
1:H:344:VAL:HG22	1:H:649:ILE:HG22	1.65	0.79
1:Y:484:TYR:H	1:Y:524:MET:HE1	1.47	0.79
1:1:344:VAL:HG22	1:1:649:ILE:HG22	1.65	0.79
1:x:290:HIS:HD2	1:x:366:PRO:HB3	1.46	0.79
1:y:290:HIS:HD2	1:y:366:PRO:HB3	1.46	0.79
1:y:344:VAL:HG22	1:y:649:ILE:HG22	1.65	0.79
1:K:290:HIS:HD2	1:K:366:PRO:HB3	1.46	0.79
1:K:344:VAL:HG22	1:K:649:ILE:HG22	1.65	0.79
1:M:344:VAL:HG22	1:M:649:ILE:HG22	1.65	0.79
1:T:484:TYR:H	1:T:524:MET:HE1	1.47	0.79
1:H:484:TYR:H	1:H:524:MET:HE1	1.47	0.79
1:L:344:VAL:HG22	1:L:649:ILE:HG22	1.65	0.79
1:N:344:VAL:HG22	1:N:649:ILE:HG22	1.65	0.79
1:R:484:TYR:H	1:R:524:MET:HE1	1.47	0.78
1:o:344:VAL:HG22	1:o:649:ILE:HG22	1.65	0.78
1:A:484:TYR:H	1:A:524:MET:HE1	1.47	0.78
1:O:484:TYR:H	1:O:524:MET:HE1	1.47	0.78
1:U:344:VAL:HG22	1:U:649:ILE:HG22	1.65	0.78
1:4:344:VAL:HG22	1:4:649:ILE:HG22	1.65	0.78
1:f:484:TYR:H	1:f:524:MET:HE1	1.47	0.78
1:k:484:TYR:H	1:k:524:MET:HE1	1.47	0.78
1:A:344:VAL:HG22	1:A:649:ILE:HG22	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:290:HIS:HD2	1:X:366:PRO:HB3	1.46	0.78
1:d:344:VAL:HG22	1:d:649:ILE:HG22	1.65	0.78
1:F:344:VAL:HG22	1:F:649:ILE:HG22	1.65	0.78
1:N:484:TYR:H	1:N:524:MET:HE1	1.47	0.78
1:R:290:HIS:HD2	1:R:366:PRO:HB3	1.46	0.78
1:m:344:VAL:HG22	1:m:649:ILE:HG22	1.65	0.78
1:q:344:VAL:HG22	1:q:649:ILE:HG22	1.65	0.78
1:B:484:TYR:H	1:B:524:MET:HE1	1.47	0.78
1:C:356:LEU:HD13	1:C:646:GLN:HG2	1.66	0.78
1:U:484:TYR:H	1:U:524:MET:HE1	1.47	0.78
1:X:344:VAL:HG22	1:X:649:ILE:HG22	1.65	0.78
1:Z:344:VAL:HG22	1:Z:649:ILE:HG22	1.65	0.78
1:3:344:VAL:HG22	1:3:649:ILE:HG22	1.65	0.78
1:5:484:TYR:H	1:5:524:MET:HE1	1.47	0.78
1:b:344:VAL:HG22	1:b:649:ILE:HG22	1.65	0.78
1:j:344:VAL:HG22	1:j:649:ILE:HG22	1.65	0.78
1:q:484:TYR:H	1:q:524:MET:HE1	1.47	0.78
1:S:356:LEU:HD13	1:S:646:GLN:HG2	1.66	0.78
1:T:356:LEU:HD13	1:T:646:GLN:HG2	1.66	0.78
1:W:344:VAL:HG22	1:W:649:ILE:HG22	1.65	0.78
1:Y:344:VAL:HG22	1:Y:649:ILE:HG22	1.65	0.78
1:c:356:LEU:HD13	1:c:646:GLN:HG2	1.66	0.78
1:f:290:HIS:HD2	1:f:366:PRO:HB3	1.46	0.78
1:g:344:VAL:HG22	1:g:649:ILE:HG22	1.65	0.78
1:u:356:LEU:HD13	1:u:646:GLN:HG2	1.66	0.78
1:x:344:VAL:HG22	1:x:649:ILE:HG22	1.65	0.78
1:P:344:VAL:HG22	1:P:649:ILE:HG22	1.65	0.78
1:Q:356:LEU:HD13	1:Q:646:GLN:HG2	1.66	0.78
1:g:290:HIS:HD2	1:g:366:PRO:HB3	1.46	0.78
1:p:484:TYR:H	1:p:524:MET:HE1	1.47	0.78
1:5:344:VAL:HG22	1:5:649:ILE:HG22	1.65	0.78
1:6:484:TYR:H	1:6:524:MET:HE1	1.47	0.78
1:l:344:VAL:HG22	1:l:649:ILE:HG22	1.65	0.78
1:B:356:LEU:HD13	1:B:646:GLN:HG2	1.66	0.78
1:Y:356:LEU:HD13	1:Y:646:GLN:HG2	1.66	0.78
1:4:484:TYR:H	1:4:524:MET:HE1	1.47	0.78
1:a:344:VAL:HG22	1:a:649:ILE:HG22	1.65	0.78
1:A:356:LEU:HD13	1:A:646:GLN:HG2	1.66	0.78
1:H:356:LEU:HD13	1:H:646:GLN:HG2	1.66	0.78
1:I:344:VAL:HG22	1:I:649:ILE:HG22	1.65	0.78
1:J:344:VAL:HG22	1:J:649:ILE:HG22	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:344:VAL:HG22	1:O:649:ILE:HG22	1.65	0.78
1:g:356:LEU:HD13	1:g:646:GLN:HG2	1.66	0.78
1:i:356:LEU:HD13	1:i:646:GLN:HG2	1.66	0.78
1:m:356:LEU:HD13	1:m:646:GLN:HG2	1.66	0.78
1:n:344:VAL:HG22	1:n:649:ILE:HG22	1.65	0.78
1:p:356:LEU:HD13	1:p:646:GLN:HG2	1.66	0.78
1:q:356:LEU:HD13	1:q:646:GLN:HG2	1.66	0.78
1:w:344:VAL:HG22	1:w:649:ILE:HG22	1.65	0.78
1:w:356:LEU:HD13	1:w:646:GLN:HG2	1.66	0.78
1:7:484:TYR:H	1:7:524:MET:HE1	1.47	0.78
1:8:344:VAL:HG22	1:8:649:ILE:HG22	1.65	0.78
1:N:356:LEU:HD13	1:N:646:GLN:HG2	1.66	0.77
1:X:484:TYR:H	1:X:524:MET:HE1	1.47	0.77
1:k:356:LEU:HD13	1:k:646:GLN:HG2	1.66	0.77
1:s:344:VAL:HG22	1:s:649:ILE:HG22	1.65	0.77
1:7:344:VAL:HG22	1:7:649:ILE:HG22	1.65	0.77
1:D:344:VAL:HG22	1:D:649:ILE:HG22	1.65	0.77
1:D:526:SER:C	1:D:527:HIS:O	2.14	0.77
1:K:356:LEU:HD13	1:K:646:GLN:HG2	1.66	0.77
1:6:356:LEU:HD13	1:6:646:GLN:HG2	1.66	0.77
1:7:356:LEU:HD13	1:7:646:GLN:HG2	1.66	0.77
1:8:356:LEU:HD13	1:8:646:GLN:HG2	1.66	0.77
1:X:356:LEU:HD13	1:X:646:GLN:HG2	1.66	0.77
1:1:526:SER:C	1:1:527:HIS:O	2.15	0.77
1:g:484:TYR:H	1:g:524:MET:HE1	1.47	0.77
1:i:344:VAL:HG22	1:i:649:ILE:HG22	1.65	0.77
1:o:356:LEU:HD13	1:o:646:GLN:HG2	1.66	0.77
1:8:484:TYR:H	1:8:524:MET:HE1	1.47	0.77
1:y:356:LEU:HD13	1:y:646:GLN:HG2	1.66	0.77
1:C:344:VAL:HG22	1:C:649:ILE:HG22	1.65	0.77
1:i:526:SER:C	1:i:527:HIS:O	2.14	0.77
1:u:344:VAL:HG22	1:u:649:ILE:HG22	1.65	0.77
1:B:344:VAL:HG22	1:B:649:ILE:HG22	1.65	0.77
1:R:356:LEU:HD13	1:R:646:GLN:HG2	1.66	0.77
1:f:356:LEU:HD13	1:f:646:GLN:HG2	1.66	0.77
1:L:356:LEU:HD13	1:L:646:GLN:HG2	1.66	0.77
1:X:526:SER:C	1:X:527:HIS:O	2.14	0.77
1:2:356:LEU:HD13	1:2:646:GLN:HG2	1.66	0.77
1:3:356:LEU:HD13	1:3:646:GLN:HG2	1.66	0.77
1:g:526:SER:C	1:g:527:HIS:O	2.14	0.77
1:p:344:VAL:HG22	1:p:649:ILE:HG22	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:356:LEU:HD13	1:v:646:GLN:HG2	1.66	0.77
1:O:356:LEU:HD13	1:O:646:GLN:HG2	1.66	0.77
1:T:658:PRO:HB2	1:c:373:MET:HE2	1.67	0.77
1:5:356:LEU:HD13	1:5:646:GLN:HG2	1.66	0.77
1:g:373:MET:HE2	1:m:658:PRO:HB2	1.67	0.77
1:x:356:LEU:HD13	1:x:646:GLN:HG2	1.66	0.77
1:z:526:SER:C	1:z:527:HIS:O	2.15	0.77
1:D:356:LEU:HD13	1:D:646:GLN:HG2	1.66	0.77
1:E:356:LEU:HD13	1:E:646:GLN:HG2	1.66	0.77
1:L:373:MET:HE2	1:2:658:PRO:HB2	1.67	0.77
1:P:373:MET:HE2	1:Q:658:PRO:HB2	1.67	0.77
1:Q:373:MET:HE2	1:S:658:PRO:HB2	1.67	0.77
1:X:373:MET:HE2	1:Y:658:PRO:HB2	1.67	0.77
1:X:658:PRO:HB2	1:6:373:MET:HE2	1.67	0.77
1:b:373:MET:HE2	1:c:658:PRO:HB2	1.67	0.77
1:o:373:MET:HE2	1:v:658:PRO:HB2	1.67	0.77
1:p:373:MET:HE2	1:q:658:PRO:HB2	1.67	0.77
1:p:658:PRO:HB2	1:u:373:MET:HE2	1.67	0.77
1:A:658:PRO:HB2	1:B:373:MET:HE2	1.67	0.76
1:B:658:PRO:HB2	1:C:373:MET:HE2	1.67	0.76
1:V:694:ARG:NH1	1:V:698:GLU:OE1	2.19	0.76
1:h:694:ARG:NH1	1:h:698:GLU:OE1	2.19	0.76
1:j:356:LEU:HD13	1:j:646:GLN:HG2	1.66	0.76
1:I:356:LEU:HD13	1:I:646:GLN:HG2	1.66	0.76
1:Z:356:LEU:HD13	1:Z:646:GLN:HG2	1.66	0.76
1:a:356:LEU:HD13	1:a:646:GLN:HG2	1.66	0.76
1:b:694:ARG:NH1	1:b:698:GLU:OE1	2.19	0.76
1:e:356:LEU:HD13	1:e:646:GLN:HG2	1.66	0.76
1:A:694:ARG:NH1	1:A:698:GLU:OE1	2.19	0.76
1:G:694:ARG:NH1	1:G:698:GLU:OE1	2.19	0.76
1:P:694:ARG:NH1	1:P:698:GLU:OE1	2.19	0.76
1:Z:658:PRO:HB2	1:1:373:MET:HE2	1.67	0.76
1:1:356:LEU:HD13	1:1:646:GLN:HG2	1.66	0.76
1:2:344:VAL:HG22	1:2:649:ILE:HG22	1.65	0.76
1:i:694:ARG:NH1	1:i:698:GLU:OE1	2.19	0.76
1:j:658:PRO:HB2	1:z:373:MET:HE2	1.67	0.76
1:q:694:ARG:NH1	1:q:698:GLU:OE1	2.19	0.76
1:r:694:ARG:NH1	1:r:698:GLU:OE1	2.19	0.76
1:t:356:LEU:HD13	1:t:646:GLN:HG2	1.66	0.76
1:t:658:PRO:HB2	1:x:373:MET:HE2	1.67	0.76
1:w:694:ARG:NH1	1:w:698:GLU:OE1	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:694:ARG:NH1	1:F:698:GLU:OE1	2.19	0.76
1:I:694:ARG:NH1	1:I:698:GLU:OE1	2.19	0.76
1:L:694:ARG:NH1	1:L:698:GLU:OE1	2.19	0.76
1:M:658:PRO:HB2	1:3:373:MET:HE2	1.67	0.76
1:M:694:ARG:NH1	1:M:698:GLU:OE1	2.19	0.76
1:U:694:ARG:NH1	1:U:698:GLU:OE1	2.19	0.76
1:5:694:ARG:NH1	1:5:698:GLU:OE1	2.19	0.76
1:a:526:SER:C	1:a:527:HIS:O	2.15	0.76
1:d:694:ARG:NH1	1:d:698:GLU:OE1	2.19	0.76
1:n:356:LEU:HD13	1:n:646:GLN:HG2	1.66	0.76
1:z:356:LEU:HD13	1:z:646:GLN:HG2	1.66	0.76
1:C:694:ARG:NH1	1:C:698:GLU:OE1	2.19	0.76
1:F:356:LEU:HD13	1:F:646:GLN:HG2	1.66	0.76
1:J:356:LEU:HD13	1:J:646:GLN:HG2	1.66	0.76
1:M:356:LEU:HD13	1:M:646:GLN:HG2	1.66	0.76
1:N:373:MET:HE2	1:g:658:PRO:HB2	1.67	0.76
1:O:694:ARG:NH1	1:O:698:GLU:OE1	2.19	0.76
1:4:694:ARG:NH1	1:4:698:GLU:OE1	2.19	0.76
1:o:694:ARG:NH1	1:o:698:GLU:OE1	2.19	0.76
1:s:356:LEU:HD13	1:s:646:GLN:HG2	1.66	0.76
1:s:694:ARG:NH1	1:s:698:GLU:OE1	2.19	0.76
1:t:694:ARG:NH1	1:t:698:GLU:OE1	2.19	0.76
1:u:694:ARG:NH1	1:u:698:GLU:OE1	2.19	0.76
1:v:344:VAL:HG22	1:v:649:ILE:HG22	1.65	0.76
1:G:373:MET:HE2	1:W:658:PRO:HB2	1.67	0.76
1:W:356:LEU:HD13	1:W:646:GLN:HG2	1.66	0.76
1:3:658:PRO:HB2	1:m:373:MET:HE2	1.67	0.76
1:6:658:PRO:HB2	1:t:373:MET:HE2	1.67	0.76
1:l:658:PRO:HB2	1:r:373:MET:HE2	1.67	0.76
1:w:526:SER:C	1:w:527:HIS:O	2.15	0.76
1:C:658:PRO:HB2	1:D:373:MET:HE2	1.67	0.76
1:Q:694:ARG:NH1	1:Q:698:GLU:OE1	2.19	0.76
1:T:344:VAL:HG22	1:T:649:ILE:HG22	1.65	0.76
1:a:373:MET:HE2	1:u:658:PRO:HB2	1.67	0.76
1:c:694:ARG:NH1	1:c:698:GLU:OE1	2.19	0.76
1:j:373:MET:HE2	1:k:658:PRO:HB2	1.67	0.76
1:l:356:LEU:HD13	1:l:646:GLN:HG2	1.66	0.76
1:7:694:ARG:NH1	1:7:698:GLU:OE1	2.19	0.76
1:8:694:ARG:NH1	1:8:698:GLU:OE1	2.19	0.76
1:F:658:PRO:HB2	1:R:373:MET:HE2	1.67	0.76
1:N:694:ARG:NH1	1:N:698:GLU:OE1	2.19	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:658:PRO:HB2	1:4:373:MET:HE2	1.68	0.76
1:U:373:MET:HE2	1:5:658:PRO:HB2	1.68	0.76
1:6:694:ARG:NH1	1:6:698:GLU:OE1	2.19	0.76
1:d:356:LEU:HD13	1:d:646:GLN:HG2	1.66	0.76
1:D:658:PRO:HB2	1:E:373:MET:HE2	1.67	0.76
1:D:694:ARG:NH1	1:D:698:GLU:OE1	2.19	0.76
1:H:658:PRO:HB2	1:Z:373:MET:HE2	1.67	0.76
1:K:694:ARG:NH1	1:K:698:GLU:OE1	2.19	0.76
1:Y:373:MET:HE2	1:x:658:PRO:HB2	1.67	0.76
1:1:694:ARG:NH1	1:1:698:GLU:OE1	2.19	0.76
1:2:694:ARG:NH1	1:2:698:GLU:OE1	2.19	0.76
1:d:658:PRO:HB2	1:f:373:MET:HE2	1.67	0.76
1:h:356:LEU:HD13	1:h:646:GLN:HG2	1.66	0.76
1:k:694:ARG:NH1	1:k:698:GLU:OE1	2.19	0.76
1:v:694:ARG:NH1	1:v:698:GLU:OE1	2.19	0.76
1:y:694:ARG:NH1	1:y:698:GLU:OE1	2.19	0.76
1:H:694:ARG:NH1	1:H:698:GLU:OE1	2.19	0.76
1:S:344:VAL:HG22	1:S:649:ILE:HG22	1.65	0.76
1:V:356:LEU:HD13	1:V:646:GLN:HG2	1.66	0.76
1:a:694:ARG:NH1	1:a:698:GLU:OE1	2.19	0.76
1:z:694:ARG:NH1	1:z:698:GLU:OE1	2.19	0.76
1:O:373:MET:HE2	1:P:658:PRO:HB2	1.67	0.75
1:a:658:PRO:HB2	1:e:373:MET:HE2	1.67	0.75
1:b:356:LEU:HD13	1:b:646:GLN:HG2	1.66	0.75
1:g:694:ARG:NH1	1:g:698:GLU:OE1	2.19	0.75
1:E:694:ARG:NH1	1:E:698:GLU:OE1	2.19	0.75
1:K:658:PRO:HB2	1:7:373:MET:HE2	1.67	0.75
1:U:356:LEU:HD13	1:U:646:GLN:HG2	1.66	0.75
1:X:694:ARG:NH1	1:X:698:GLU:OE1	2.19	0.75
1:k:373:MET:HE2	1:s:658:PRO:HB2	1.67	0.75
1:m:694:ARG:NH1	1:m:698:GLU:OE1	2.19	0.75
1:B:694:ARG:NH1	1:B:698:GLU:OE1	2.19	0.75
1:P:356:LEU:HD13	1:P:646:GLN:HG2	1.66	0.75
1:Y:694:ARG:NH1	1:Y:698:GLU:OE1	2.19	0.75
1:3:694:ARG:NH1	1:3:698:GLU:OE1	2.19	0.75
1:4:356:LEU:HD13	1:4:646:GLN:HG2	1.66	0.75
1:e:694:ARG:NH1	1:e:698:GLU:OE1	2.19	0.75
1:x:694:ARG:NH1	1:x:698:GLU:OE1	2.19	0.75
1:W:694:ARG:NH1	1:W:698:GLU:OE1	2.19	0.75
1:5:373:MET:HE2	1:b:658:PRO:HB2	1.67	0.75
1:l:694:ARG:NH1	1:l:698:GLU:OE1	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:356:LEU:HD13	1:r:646:GLN:HG2	1.66	0.75
1:y:658:PRO:HB2	1:8:373:MET:HE2	1.67	0.75
1:G:356:LEU:HD13	1:G:646:GLN:HG2	1.66	0.75
1:R:658:PRO:HB2	1:V:373:MET:HE2	1.67	0.75
1:R:694:ARG:NH1	1:R:698:GLU:OE1	2.19	0.75
1:f:694:ARG:NH1	1:f:698:GLU:OE1	2.19	0.75
1:p:694:ARG:NH1	1:p:698:GLU:OE1	2.19	0.75
1:v:373:MET:HE2	1:w:658:PRO:HB2	1.67	0.75
1:2:373:MET:HE2	1:i:658:PRO:HB2	1.67	0.75
1:i:373:MET:HE2	1:7:658:PRO:HB2	1.67	0.75
1:H:373:MET:HE2	1:I:658:PRO:HB2	1.67	0.75
1:I:373:MET:HE2	1:J:658:PRO:HB2	1.67	0.75
1:f:658:PRO:HB2	1:h:373:MET:HE2	1.67	0.75
1:J:694:ARG:NH1	1:J:698:GLU:OE1	2.19	0.75
1:S:694:ARG:NH1	1:S:698:GLU:OE1	2.19	0.75
1:T:694:ARG:NH1	1:T:698:GLU:OE1	2.19	0.75
1:w:373:MET:HE2	1:8:658:PRO:HB2	1.67	0.75
1:d:373:MET:HE2	1:r:658:PRO:HB2	1.67	0.74
1:j:694:ARG:NH1	1:j:698:GLU:OE1	2.19	0.74
1:n:658:PRO:HB2	1:s:373:MET:HE2	1.68	0.74
1:n:694:ARG:NH1	1:n:698:GLU:OE1	2.19	0.74
1:e:658:PRO:HB2	1:q:373:MET:HE2	1.67	0.74
1:A:373:MET:HE2	1:E:658:PRO:HB2	1.67	0.74
1:F:373:MET:HE2	1:G:658:PRO:HB2	1.67	0.74
1:Z:694:ARG:NH1	1:Z:698:GLU:OE1	2.19	0.74
1:E:526:SER:C	1:E:527:HIS:O	2.14	0.74
1:N:473:VAL:O	1:P:519:ASN:ND2	2.20	0.74
1:O:526:SER:C	1:O:527:HIS:O	2.15	0.74
1:T:373:MET:HE2	1:U:658:PRO:HB2	1.67	0.74
1:e:526:SER:C	1:e:527:HIS:O	2.14	0.74
1:V:658:PRO:HB2	1:W:373:MET:HE2	1.68	0.74
1:S:373:MET:HE2	1:4:658:PRO:HB2	1.67	0.74
1:q:526:SER:C	1:q:527:HIS:O	2.15	0.74
1:h:658:PRO:HB2	1:l:373:MET:HE2	1.68	0.74
1:o:658:PRO:HB2	1:y:373:MET:HE2	1.68	0.74
1:K:373:MET:HE2	1:L:658:PRO:HB2	1.68	0.74
1:J:373:MET:HE2	1:1:658:PRO:HB2	1.67	0.73
1:E:243:SER:HB3	1:E:245:ARG:HH12	1.53	0.73
1:Z:243:SER:HB3	1:Z:245:ARG:HH12	1.53	0.73
1:e:243:SER:HB3	1:e:245:ARG:HH12	1.53	0.73
1:G:243:SER:HB3	1:G:245:ARG:HH12	1.54	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:243:SER:HB3	1:j:245:ARG:HH12	1.54	0.73
1:r:243:SER:HB3	1:r:245:ARG:HH12	1.54	0.73
1:F:526:SER:C	1:F:527:HIS:O	2.14	0.73
1:S:243:SER:HB3	1:S:245:ARG:HH12	1.54	0.73
1:T:243:SER:HB3	1:T:245:ARG:HH12	1.54	0.73
1:U:243:SER:HB3	1:U:245:ARG:HH12	1.54	0.73
1:4:243:SER:HB3	1:4:245:ARG:HH12	1.54	0.73
1:d:526:SER:C	1:d:527:HIS:O	2.14	0.73
1:n:373:MET:HE2	1:z:658:PRO:HB2	1.67	0.73
1:L:243:SER:HB3	1:L:245:ARG:HH12	1.53	0.73
1:M:526:SER:C	1:M:527:HIS:O	2.15	0.73
1:h:526:SER:C	1:h:527:HIS:O	2.15	0.73
1:o:243:SER:HB3	1:o:245:ARG:HH12	1.54	0.73
1:t:526:SER:C	1:t:527:HIS:O	2.15	0.73
1:A:526:SER:C	1:A:527:HIS:O	2.15	0.73
1:5:526:SER:C	1:5:527:HIS:O	2.14	0.73
1:g:243:SER:HB3	1:g:245:ARG:HH12	1.53	0.73
1:x:243:SER:HB3	1:x:245:ARG:HH12	1.53	0.73
1:3:243:SER:HB3	1:3:245:ARG:HH12	1.53	0.73
1:d:243:SER:HB3	1:d:245:ARG:HH12	1.53	0.73
1:N:243:SER:HB3	1:N:245:ARG:HH12	1.54	0.73
1:6:243:SER:HB3	1:6:245:ARG:HH12	1.54	0.73
1:F:243:SER:HB3	1:F:245:ARG:HH12	1.53	0.73
1:6:526:SER:C	1:6:527:HIS:O	2.14	0.73
1:N:526:SER:C	1:N:527:HIS:O	2.14	0.73
1:R:243:SER:HB3	1:R:245:ARG:HH12	1.54	0.73
1:X:243:SER:HB3	1:X:245:ARG:HH12	1.54	0.73
1:f:243:SER:HB3	1:f:245:ARG:HH12	1.54	0.73
1:l:243:SER:HB3	1:l:245:ARG:HH12	1.53	0.73
1:p:243:SER:HB3	1:p:245:ARG:HH12	1.54	0.73
1:B:243:SER:HB3	1:B:245:ARG:HH12	1.54	0.72
1:W:243:SER:HB3	1:W:245:ARG:HH12	1.53	0.72
1:K:243:SER:HB3	1:K:245:ARG:HH12	1.54	0.72
1:P:243:SER:HB3	1:P:245:ARG:HH12	1.54	0.72
1:Y:243:SER:HB3	1:Y:245:ARG:HH12	1.54	0.72
1:b:243:SER:HB3	1:b:245:ARG:HH12	1.54	0.72
1:z:243:SER:HB3	1:z:245:ARG:HH12	1.54	0.72
1:A:519:ASN:ND2	1:I:473:VAL:O	2.22	0.72
1:O:243:SER:HB3	1:O:245:ARG:HH12	1.53	0.72
1:O:473:VAL:O	1:g:519:ASN:ND2	2.23	0.72
1:m:243:SER:HB3	1:m:245:ARG:HH12	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:243:SER:HB3	1:u:245:ARG:HH12	1.54	0.72
1:y:243:SER:HB3	1:y:245:ARG:HH12	1.54	0.72
1:7:243:SER:HB3	1:7:245:ARG:HH12	1.54	0.72
1:C:243:SER:HB3	1:C:245:ARG:HH12	1.54	0.72
1:X:519:ASN:ND2	1:5:473:VAL:O	2.23	0.72
1:1:243:SER:HB3	1:1:245:ARG:HH12	1.54	0.72
1:5:243:SER:HB3	1:5:245:ARG:HH12	1.54	0.72
1:n:526:SER:C	1:n:527:HIS:O	2.14	0.72
1:M:243:SER:HB3	1:M:245:ARG:HH12	1.54	0.72
1:w:243:SER:HB3	1:w:245:ARG:HH12	1.53	0.72
1:8:243:SER:HB3	1:8:245:ARG:HH12	1.54	0.72
1:S:473:VAL:O	1:U:519:ASN:ND2	2.23	0.72
1:T:473:VAL:O	1:4:519:ASN:ND2	2.23	0.72
1:V:526:SER:C	1:V:527:HIS:O	2.14	0.72
1:n:243:SER:HB3	1:n:245:ARG:HH12	1.54	0.72
1:s:243:SER:HB3	1:s:245:ARG:HH12	1.53	0.72
1:J:473:VAL:O	1:L:519:ASN:ND2	2.23	0.72
1:V:473:VAL:O	1:5:519:ASN:ND2	2.23	0.72
1:n:473:VAL:O	1:o:519:ASN:ND2	2.23	0.72
1:t:243:SER:HB3	1:t:245:ARG:HH12	1.54	0.72
1:D:473:VAL:O	1:N:519:ASN:ND2	2.22	0.72
1:J:243:SER:HB3	1:J:245:ARG:HH12	1.53	0.72
1:O:519:ASN:ND2	1:h:473:VAL:O	2.23	0.72
1:T:519:ASN:ND2	1:f:473:VAL:O	2.23	0.72
1:V:243:SER:HB3	1:V:245:ARG:HH12	1.53	0.72
1:6:473:VAL:O	1:b:519:ASN:ND2	2.23	0.72
1:i:243:SER:HB3	1:i:245:ARG:HH12	1.53	0.72
1:q:243:SER:HB3	1:q:245:ARG:HH12	1.54	0.72
1:A:243:SER:HB3	1:A:245:ARG:HH12	1.54	0.72
1:I:243:SER:HB3	1:I:245:ARG:HH12	1.54	0.72
1:K:519:ASN:ND2	1:8:473:VAL:O	2.23	0.72
1:R:473:VAL:O	1:S:519:ASN:ND2	2.23	0.72
1:g:473:VAL:O	1:h:519:ASN:ND2	2.23	0.72
1:H:243:SER:HB3	1:H:245:ARG:HH12	1.54	0.72
1:y:519:ASN:ND2	1:7:473:VAL:O	2.23	0.72
1:B:473:VAL:O	1:J:519:ASN:ND2	2.23	0.71
1:K:473:VAL:O	1:1:519:ASN:ND2	2.23	0.71
1:2:243:SER:HB3	1:2:245:ARG:HH12	1.54	0.71
1:3:473:VAL:O	1:i:519:ASN:ND2	2.23	0.71
1:q:519:ASN:ND2	1:s:473:VAL:O	2.23	0.71
1:v:243:SER:HB3	1:v:245:ARG:HH12	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:519:ASN:ND2	1:x:473:VAL:O	2.23	0.71
1:Q:243:SER:HB3	1:Q:245:ARG:HH12	1.54	0.71
1:V:519:ASN:ND2	1:X:473:VAL:O	2.23	0.71
1:h:243:SER:HB3	1:h:245:ARG:HH12	1.54	0.71
1:n:519:ASN:ND2	1:p:473:VAL:O	2.23	0.71
1:y:473:VAL:O	1:z:519:ASN:ND2	2.23	0.71
1:Z:473:VAL:O	1:x:519:ASN:ND2	2.23	0.71
1:c:243:SER:HB3	1:c:245:ARG:HH12	1.54	0.71
1:k:243:SER:HB3	1:k:245:ARG:HH12	1.54	0.71
1:D:519:ASN:ND2	1:P:473:VAL:O	2.23	0.71
1:Z:519:ASN:ND2	1:w:473:VAL:O	2.23	0.71
1:3:519:ASN:ND2	1:j:473:VAL:O	2.23	0.71
1:6:519:ASN:ND2	1:a:473:VAL:O	2.23	0.71
1:a:519:ASN:ND2	1:b:473:VAL:O	2.23	0.71
1:i:473:VAL:O	1:j:519:ASN:ND2	2.23	0.71
1:H:519:ASN:ND2	1:Y:473:VAL:O	2.23	0.71
1:c:519:ASN:ND2	1:e:473:VAL:O	2.23	0.71
1:k:473:VAL:O	1:l:519:ASN:ND2	2.23	0.71
1:l:473:VAL:O	1:m:519:ASN:ND2	2.23	0.71
1:E:473:VAL:O	1:Q:519:ASN:ND2	2.23	0.71
1:H:473:VAL:O	1:W:519:ASN:ND2	2.23	0.71
1:W:473:VAL:O	1:Y:519:ASN:ND2	2.23	0.71
1:4:473:VAL:O	1:f:519:ASN:ND2	2.23	0.71
1:k:519:ASN:ND2	1:m:473:VAL:O	2.23	0.71
1:B:519:ASN:ND2	1:L:473:VAL:O	2.23	0.71
1:C:519:ASN:ND2	1:M:473:VAL:O	2.23	0.71
1:F:519:ASN:ND2	1:Q:473:VAL:O	2.23	0.71
1:J:526:SER:C	1:J:527:HIS:O	2.15	0.71
1:o:473:VAL:O	1:p:519:ASN:ND2	2.23	0.71
1:R:519:ASN:ND2	1:U:473:VAL:O	2.23	0.71
1:R:526:SER:C	1:R:527:HIS:O	2.15	0.71
1:c:473:VAL:O	1:d:519:ASN:ND2	2.23	0.71
1:f:526:SER:C	1:f:527:HIS:O	2.15	0.71
1:K:526:SER:C	1:K:527:HIS:O	2.14	0.71
1:1:473:VAL:O	1:8:519:ASN:ND2	2.23	0.71
1:r:473:VAL:O	1:s:519:ASN:ND2	2.23	0.71
1:y:526:SER:C	1:y:527:HIS:O	2.14	0.71
1:C:473:VAL:O	1:2:519:ASN:ND2	2.22	0.71
1:t:473:VAL:O	1:u:519:ASN:ND2	2.23	0.71
1:u:473:VAL:O	1:v:519:ASN:ND2	2.23	0.71
1:z:473:VAL:O	1:7:519:ASN:ND2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:473:VAL:O	1:I:519:ASN:ND2	2.23	0.70
1:J:252:TYR:OH	1:J:374:ILE:O	2.09	0.70
1:M:252:TYR:OH	1:M:374:ILE:O	2.10	0.70
1:T:323:LYS:HE3	1:U:654:VAL:HG11	1.74	0.70
1:n:252:TYR:OH	1:n:374:ILE:O	2.09	0.70
1:S:323:LYS:HE3	1:4:654:VAL:HG11	1.74	0.70
1:S:526:SER:C	1:S:527:HIS:O	2.15	0.70
1:T:526:SER:C	1:T:527:HIS:O	2.15	0.70
1:U:323:LYS:HE3	1:5:654:VAL:HG11	1.73	0.70
1:o:526:SER:C	1:o:527:HIS:O	2.14	0.70
1:L:252:TYR:OH	1:L:374:ILE:O	2.09	0.70
1:O:654:VAL:HG11	1:4:323:LYS:HE3	1.73	0.70
1:A:654:VAL:HG11	1:B:323:LYS:HE3	1.73	0.70
1:E:519:ASN:ND2	1:F:473:VAL:O	2.23	0.70
1:l:252:TYR:OH	1:l:374:ILE:O	2.10	0.70
1:E:346:THR:HG22	1:E:647:ILE:HG12	1.74	0.70
1:L:526:SER:C	1:L:527:HIS:O	2.14	0.70
1:O:323:LYS:HE3	1:P:654:VAL:HG11	1.74	0.70
1:W:252:TYR:OH	1:W:374:ILE:O	2.10	0.70
1:X:654:VAL:HG11	1:6:323:LYS:HE3	1.74	0.70
1:5:323:LYS:HE3	1:b:654:VAL:HG11	1.73	0.70
1:6:654:VAL:HG11	1:t:323:LYS:HE3	1.74	0.70
1:a:243:SER:HB3	1:a:245:ARG:HH12	1.54	0.70
1:d:473:VAL:O	1:e:519:ASN:ND2	2.23	0.70
1:e:346:THR:HG22	1:e:647:ILE:HG12	1.74	0.70
1:s:346:THR:HG22	1:s:647:ILE:HG12	1.74	0.70
1:v:346:THR:HG22	1:v:647:ILE:HG12	1.74	0.70
1:D:243:SER:HB3	1:D:245:ARG:HH12	1.54	0.70
1:I:323:LYS:HE3	1:J:654:VAL:HG11	1.74	0.70
1:I:346:THR:HG22	1:I:647:ILE:HG12	1.74	0.70
1:M:519:ASN:ND2	1:2:473:VAL:O	2.23	0.70
1:O:346:THR:HG22	1:O:647:ILE:HG12	1.74	0.70
1:2:346:THR:HG22	1:2:647:ILE:HG12	1.74	0.70
1:p:323:LYS:HE3	1:q:654:VAL:HG11	1.74	0.70
1:p:654:VAL:HG11	1:u:323:LYS:HE3	1.74	0.70
1:A:473:VAL:O	1:G:519:ASN:ND2	2.23	0.70
1:B:654:VAL:HG11	1:C:323:LYS:HE3	1.74	0.70
1:H:346:THR:HG22	1:H:647:ILE:HG12	1.74	0.70
1:5:346:THR:HG22	1:5:647:ILE:HG12	1.74	0.70
1:k:346:THR:HG22	1:k:647:ILE:HG12	1.74	0.70
1:n:654:VAL:HG11	1:s:323:LYS:HE3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:346:THR:HG22	1:K:647:ILE:HG12	1.74	0.70
1:M:346:THR:HG22	1:M:647:ILE:HG12	1.74	0.70
1:P:252:TYR:OH	1:P:374:ILE:O	2.10	0.70
1:a:323:LYS:HE3	1:u:654:VAL:HG11	1.74	0.70
1:b:252:TYR:OH	1:b:374:ILE:O	2.10	0.70
1:j:346:THR:HG22	1:j:647:ILE:HG12	1.74	0.70
1:k:526:SER:C	1:k:527:HIS:O	2.15	0.70
1:t:519:ASN:ND2	1:v:473:VAL:O	2.23	0.70
1:y:346:THR:HG22	1:y:647:ILE:HG12	1.74	0.70
1:C:654:VAL:HG11	1:D:323:LYS:HE3	1.74	0.70
1:H:654:VAL:HG11	1:Z:323:LYS:HE3	1.73	0.70
1:X:252:TYR:OH	1:X:374:ILE:O	2.09	0.70
1:Z:346:THR:HG22	1:Z:647:ILE:HG12	1.74	0.70
1:g:252:TYR:OH	1:g:374:ILE:O	2.10	0.70
1:i:252:TYR:OH	1:i:374:ILE:O	2.10	0.70
1:t:346:THR:HG22	1:t:647:ILE:HG12	1.74	0.70
1:C:526:SER:C	1:C:527:HIS:O	2.14	0.70
1:1:252:TYR:OH	1:1:374:ILE:O	2.09	0.70
1:6:252:TYR:OH	1:6:374:ILE:O	2.09	0.70
1:b:323:LYS:HE3	1:c:654:VAL:HG11	1.74	0.70
1:u:526:SER:C	1:u:527:HIS:O	2.14	0.70
1:w:252:TYR:OH	1:w:374:ILE:O	2.10	0.70
1:z:346:THR:HG22	1:z:647:ILE:HG12	1.74	0.70
1:J:323:LYS:HE3	1:1:654:VAL:HG11	1.74	0.69
1:P:323:LYS:HE3	1:Q:654:VAL:HG11	1.74	0.69
1:e:252:TYR:OH	1:e:374:ILE:O	2.10	0.69
1:j:323:LYS:HE3	1:k:654:VAL:HG11	1.73	0.69
1:l:346:THR:HG22	1:l:647:ILE:HG12	1.74	0.69
1:n:323:LYS:HE3	1:z:654:VAL:HG11	1.73	0.69
1:q:473:VAL:O	1:r:519:ASN:ND2	2.23	0.69
1:z:252:TYR:OH	1:z:374:ILE:O	2.09	0.69
1:E:252:TYR:OH	1:E:374:ILE:O	2.10	0.69
1:H:323:LYS:HE3	1:I:654:VAL:HG11	1.73	0.69
1:K:654:VAL:HG11	1:7:323:LYS:HE3	1.74	0.69
1:N:252:TYR:OH	1:N:374:ILE:O	2.10	0.69
1:W:346:THR:HG22	1:W:647:ILE:HG12	1.74	0.69
1:Z:654:VAL:HG11	1:1:323:LYS:HE3	1.74	0.69
1:1:346:THR:HG22	1:1:647:ILE:HG12	1.74	0.69
1:3:346:THR:HG22	1:3:647:ILE:HG12	1.74	0.69
1:4:252:TYR:OH	1:4:374:ILE:O	2.09	0.69
1:o:346:THR:HG22	1:o:647:ILE:HG12	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:346:THR:HG22	1:r:647:ILE:HG12	1.74	0.69
1:G:346:THR:HG22	1:G:647:ILE:HG12	1.74	0.69
1:U:252:TYR:OH	1:U:374:ILE:O	2.09	0.69
1:a:654:VAL:HG11	1:e:323:LYS:HE3	1.74	0.69
1:j:654:VAL:HG11	1:z:323:LYS:HE3	1.74	0.69
1:v:252:TYR:OH	1:v:374:ILE:O	2.10	0.69
1:x:346:THR:HG22	1:x:647:ILE:HG12	1.74	0.69
1:y:654:VAL:HG11	1:8:323:LYS:HE3	1.74	0.69
1:8:346:THR:HG22	1:8:647:ILE:HG12	1.74	0.69
1:H:526:SER:C	1:H:527:HIS:O	2.14	0.69
1:J:346:THR:HG22	1:J:647:ILE:HG12	1.74	0.69
1:L:346:THR:HG22	1:L:647:ILE:HG12	1.74	0.69
1:M:654:VAL:HG11	1:3:323:LYS:HE3	1.73	0.69
1:c:252:TYR:OH	1:c:374:ILE:O	2.10	0.69
1:7:346:THR:HG22	1:7:647:ILE:HG12	1.74	0.69
1:T:654:VAL:HG11	1:c:323:LYS:HE3	1.74	0.69
1:2:252:TYR:OH	1:2:374:ILE:O	2.09	0.69
1:k:323:LYS:HE3	1:s:654:VAL:HG11	1.74	0.69
1:l:654:VAL:HG11	1:r:323:LYS:HE3	1.74	0.69
1:m:526:SER:C	1:m:527:HIS:O	2.15	0.69
1:n:346:THR:HG22	1:n:647:ILE:HG12	1.74	0.69
1:A:346:THR:HG22	1:A:647:ILE:HG12	1.74	0.69
1:G:323:LYS:HE3	1:W:654:VAL:HG11	1.74	0.69
1:L:323:LYS:HE3	1:2:654:VAL:HG11	1.73	0.69
1:Q:252:TYR:OH	1:Q:374:ILE:O	2.10	0.69
1:g:323:LYS:HE3	1:m:654:VAL:HG11	1.73	0.69
1:7:252:TYR:OH	1:7:374:ILE:O	2.10	0.69
1:D:654:VAL:HG11	1:E:323:LYS:HE3	1.74	0.69
1:Q:323:LYS:HE3	1:S:654:VAL:HG11	1.74	0.69
1:h:346:THR:HG22	1:h:647:ILE:HG12	1.74	0.69
1:h:654:VAL:HG11	1:l:323:LYS:HE3	1.74	0.69
1:i:323:LYS:HE3	1:7:654:VAL:HG11	1.74	0.69
1:i:346:THR:HG22	1:i:647:ILE:HG12	1.74	0.69
1:o:323:LYS:HE3	1:v:654:VAL:HG11	1.73	0.69
1:w:346:THR:HG22	1:w:647:ILE:HG12	1.74	0.69
1:O:579:GLN:NE2	1:O:593:THR:OG1	2.26	0.69
1:V:346:THR:HG22	1:V:647:ILE:HG12	1.74	0.69
1:V:654:VAL:HG11	1:W:323:LYS:HE3	1.74	0.69
1:X:323:LYS:HE3	1:Y:654:VAL:HG11	1.74	0.69
1:Y:346:THR:HG22	1:Y:647:ILE:HG12	1.74	0.69
1:5:579:GLN:NE2	1:5:593:THR:OG1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:346:THR:HG22	1:6:647:ILE:HG12	1.74	0.69
1:b:346:THR:HG22	1:b:647:ILE:HG12	1.74	0.69
1:i:309:ARG:NH2	1:i:686:GLU:OE1	2.24	0.69
1:i:579:GLN:NE2	1:i:593:THR:OG1	2.26	0.69
1:j:579:GLN:NE2	1:j:593:THR:OG1	2.26	0.69
1:k:579:GLN:NE2	1:k:593:THR:OG1	2.26	0.69
1:m:346:THR:HG22	1:m:647:ILE:HG12	1.74	0.69
1:q:252:TYR:OH	1:q:374:ILE:O	2.09	0.69
1:q:309:ARG:NH2	1:q:686:GLU:OE1	2.24	0.69
1:q:346:THR:HG22	1:q:647:ILE:HG12	1.74	0.69
1:t:654:VAL:HG11	1:x:323:LYS:HE3	1.74	0.69
1:w:323:LYS:HE3	1:8:654:VAL:HG11	1.74	0.69
1:8:252:TYR:OH	1:8:374:ILE:O	2.10	0.69
1:F:252:TYR:OH	1:F:374:ILE:O	2.10	0.69
1:H:579:GLN:NE2	1:H:593:THR:OG1	2.26	0.69
1:N:346:THR:HG22	1:N:647:ILE:HG12	1.74	0.69
1:P:346:THR:HG22	1:P:647:ILE:HG12	1.74	0.69
1:Z:579:GLN:NE2	1:Z:593:THR:OG1	2.26	0.69
1:3:252:TYR:OH	1:3:374:ILE:O	2.10	0.69
1:w:309:ARG:NH2	1:w:686:GLU:OE1	2.24	0.69
1:w:579:GLN:NE2	1:w:593:THR:OG1	2.26	0.69
1:A:252:TYR:OH	1:A:374:ILE:O	2.10	0.69
1:K:252:TYR:OH	1:K:374:ILE:O	2.09	0.69
1:d:252:TYR:OH	1:d:374:ILE:O	2.10	0.69
1:v:309:ARG:NH2	1:v:686:GLU:OE1	2.24	0.69
1:x:252:TYR:OH	1:x:374:ILE:O	2.10	0.69
1:y:252:TYR:OH	1:y:374:ILE:O	2.09	0.69
1:B:346:THR:HG22	1:B:647:ILE:HG12	1.74	0.68
1:o:654:VAL:HG11	1:y:323:LYS:HE3	1.73	0.68
1:p:346:THR:HG22	1:p:647:ILE:HG12	1.74	0.68
1:F:346:THR:HG22	1:F:647:ILE:HG12	1.74	0.68
1:F:654:VAL:HG11	1:R:323:LYS:HE3	1.74	0.68
1:K:323:LYS:HE3	1:L:654:VAL:HG11	1.73	0.68
1:2:309:ARG:NH2	1:2:686:GLU:OE1	2.24	0.68
1:2:323:LYS:HE3	1:i:654:VAL:HG11	1.74	0.68
1:d:346:THR:HG22	1:d:647:ILE:HG12	1.74	0.68
1:h:252:TYR:OH	1:h:374:ILE:O	2.09	0.68
1:A:323:LYS:HE3	1:E:654:VAL:HG11	1.74	0.68
1:F:323:LYS:HE3	1:G:654:VAL:HG11	1.74	0.68
1:R:346:THR:HG22	1:R:647:ILE:HG12	1.74	0.68
1:T:346:THR:HG22	1:T:647:ILE:HG12	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:252:TYR:OH	1:V:374:ILE:O	2.09	0.68
1:3:654:VAL:HG11	1:m:323:LYS:HE3	1.74	0.68
1:Q:526:SER:C	1:Q:527:HIS:O	2.15	0.68
1:S:346:THR:HG22	1:S:647:ILE:HG12	1.74	0.68
1:Y:323:LYS:HE3	1:x:654:VAL:HG11	1.74	0.68
1:3:579:GLN:NE2	1:3:593:THR:OG1	2.26	0.68
1:d:323:LYS:HE3	1:r:654:VAL:HG11	1.73	0.68
1:d:654:VAL:HG11	1:f:323:LYS:HE3	1.74	0.68
1:f:346:THR:HG22	1:f:647:ILE:HG12	1.74	0.68
1:N:323:LYS:HE3	1:g:654:VAL:HG11	1.76	0.68
1:Q:346:THR:HG22	1:Q:647:ILE:HG12	1.74	0.68
1:v:323:LYS:HE3	1:w:654:VAL:HG11	1.74	0.68
1:X:346:THR:HG22	1:X:647:ILE:HG12	1.74	0.68
1:Y:526:SER:C	1:Y:527:HIS:O	2.15	0.68
1:a:346:THR:HG22	1:a:647:ILE:HG12	1.74	0.68
1:c:346:THR:HG22	1:c:647:ILE:HG12	1.74	0.68
1:g:346:THR:HG22	1:g:647:ILE:HG12	1.74	0.68
1:p:579:GLN:NE2	1:p:593:THR:OG1	2.26	0.68
1:B:579:GLN:NE2	1:B:593:THR:OG1	2.26	0.68
1:D:346:THR:HG22	1:D:647:ILE:HG12	1.74	0.68
1:J:579:GLN:NE2	1:J:593:THR:OG1	2.26	0.68
1:M:323:LYS:HE3	1:N:654:VAL:HG11	1.76	0.68
1:e:654:VAL:HG11	1:q:323:LYS:HE3	1.74	0.68
1:n:579:GLN:NE2	1:n:593:THR:OG1	2.26	0.68
1:u:346:THR:HG22	1:u:647:ILE:HG12	1.74	0.68
1:x:579:GLN:NE2	1:x:593:THR:OG1	2.26	0.68
1:C:346:THR:HG22	1:C:647:ILE:HG12	1.74	0.68
1:4:346:THR:HG22	1:4:647:ILE:HG12	1.74	0.68
1:a:579:GLN:NE2	1:a:593:THR:OG1	2.26	0.68
1:c:526:SER:C	1:c:527:HIS:O	2.15	0.68
1:D:579:GLN:NE2	1:D:593:THR:OG1	2.26	0.68
1:U:346:THR:HG22	1:U:647:ILE:HG12	1.74	0.68
1:q:579:GLN:NE2	1:q:593:THR:OG1	2.26	0.68
1:M:579:GLN:NE2	1:M:593:THR:OG1	2.26	0.68
1:R:654:VAL:HG11	1:V:323:LYS:HE3	1.73	0.68
1:Z:252:TYR:OH	1:Z:374:ILE:O	2.10	0.68
1:b:526:SER:C	1:b:527:HIS:O	2.14	0.68
1:j:252:TYR:OH	1:j:374:ILE:O	2.10	0.68
1:s:252:TYR:OH	1:s:374:ILE:O	2.10	0.68
1:A:579:GLN:NE2	1:A:593:THR:OG1	2.26	0.67
1:G:309:ARG:NH2	1:G:686:GLU:OE1	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:526:SER:C	1:P:527:HIS:O	2.14	0.67
1:2:579:GLN:NE2	1:2:593:THR:OG1	2.26	0.67
1:C:612:VAL:O	1:C:729:THR:OG1	2.13	0.67
1:F:309:ARG:NH2	1:F:686:GLU:OE1	2.24	0.67
1:I:252:TYR:OH	1:I:374:ILE:O	2.10	0.67
1:V:570:ASN:HD21	1:V:607:TRP:HB2	1.60	0.67
1:Z:570:ASN:HD21	1:Z:607:TRP:HB2	1.60	0.67
1:f:654:VAL:HG11	1:h:323:LYS:HE3	1.74	0.67
1:h:570:ASN:HD21	1:h:607:TRP:HB2	1.60	0.67
1:t:579:GLN:NE2	1:t:593:THR:OG1	2.26	0.67
1:J:570:ASN:HD21	1:J:607:TRP:HB2	1.60	0.67
1:K:612:VAL:O	1:K:729:THR:OG1	2.13	0.67
1:f:579:GLN:NE2	1:f:593:THR:OG1	2.26	0.67
1:h:579:GLN:NE2	1:h:593:THR:OG1	2.26	0.67
1:j:570:ASN:HD21	1:j:607:TRP:HB2	1.60	0.67
1:n:570:ASN:HD21	1:n:607:TRP:HB2	1.60	0.67
1:u:612:VAL:O	1:u:729:THR:OG1	2.13	0.67
1:v:570:ASN:HD21	1:v:607:TRP:HB2	1.60	0.67
1:v:579:GLN:NE2	1:v:593:THR:OG1	2.26	0.67
1:4:579:GLN:NE2	1:4:593:THR:OG1	2.26	0.67
1:4:612:VAL:O	1:4:729:THR:OG1	2.13	0.67
1:a:309:ARG:NH2	1:a:686:GLU:OE1	2.24	0.67
1:r:309:ARG:NH2	1:r:686:GLU:OE1	2.24	0.67
1:r:570:ASN:HD21	1:r:607:TRP:HB2	1.60	0.67
1:y:612:VAL:O	1:y:729:THR:OG1	2.13	0.67
1:A:612:VAL:O	1:A:729:THR:OG1	2.13	0.67
1:C:570:ASN:HD21	1:C:607:TRP:HB2	1.60	0.67
1:G:570:ASN:HD21	1:G:607:TRP:HB2	1.60	0.67
1:R:579:GLN:NE2	1:R:593:THR:OG1	2.26	0.67
1:U:612:VAL:O	1:U:729:THR:OG1	2.13	0.67
1:Y:570:ASN:HD21	1:Y:607:TRP:HB2	1.60	0.67
1:2:570:ASN:HD21	1:2:607:TRP:HB2	1.60	0.67
1:d:309:ARG:NH2	1:d:686:GLU:OE1	2.24	0.67
1:l:579:GLN:NE2	1:l:593:THR:OG1	2.26	0.67
1:m:570:ASN:HD21	1:m:607:TRP:HB2	1.60	0.67
1:q:612:VAL:O	1:q:729:THR:OG1	2.13	0.67
1:D:309:ARG:NH2	1:D:686:GLU:OE1	2.24	0.67
1:R:309:ARG:NH2	1:R:686:GLU:OE1	2.24	0.67
1:U:579:GLN:NE2	1:U:593:THR:OG1	2.26	0.67
1:V:309:ARG:NH2	1:V:686:GLU:OE1	2.24	0.67
1:V:579:GLN:NE2	1:V:593:THR:OG1	2.26	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:579:GLN:NE2	1:W:593:THR:OG1	2.26	0.67
1:b:309:ARG:NH2	1:b:686:GLU:OE1	2.24	0.67
1:l:262:ASN:O	1:l:266:GLY:N	2.28	0.67
1:t:309:ARG:NH2	1:t:686:GLU:OE1	2.24	0.67
1:u:570:ASN:HD21	1:u:607:TRP:HB2	1.60	0.67
1:u:579:GLN:NE2	1:u:593:THR:OG1	2.26	0.67
1:8:309:ARG:NH2	1:8:686:GLU:OE1	2.24	0.67
1:E:262:ASN:O	1:E:266:GLY:N	2.28	0.67
1:K:570:ASN:HD21	1:K:607:TRP:HB2	1.60	0.67
1:M:309:ARG:NH2	1:M:686:GLU:OE1	2.24	0.67
1:P:309:ARG:NH2	1:P:686:GLU:OE1	2.24	0.67
1:W:262:ASN:O	1:W:266:GLY:N	2.28	0.67
1:W:612:VAL:O	1:W:729:THR:OG1	2.13	0.67
1:i:612:VAL:O	1:i:729:THR:OG1	2.13	0.67
1:k:252:TYR:OH	1:k:374:ILE:O	2.10	0.67
1:y:570:ASN:HD21	1:y:607:TRP:HB2	1.60	0.67
1:7:309:ARG:NH2	1:7:686:GLU:OE1	2.24	0.67
1:7:570:ASN:HD21	1:7:607:TRP:HB2	1.60	0.67
1:C:262:ASN:O	1:C:266:GLY:N	2.28	0.67
1:C:579:GLN:NE2	1:C:593:THR:OG1	2.26	0.67
1:H:252:TYR:OH	1:H:374:ILE:O	2.10	0.67
1:L:262:ASN:O	1:L:266:GLY:N	2.28	0.67
1:M:262:ASN:O	1:M:266:GLY:N	2.28	0.67
1:S:262:ASN:O	1:S:266:GLY:N	2.28	0.67
1:3:570:ASN:HD21	1:3:607:TRP:HB2	1.60	0.67
1:e:262:ASN:O	1:e:266:GLY:N	2.28	0.67
1:l:612:VAL:O	1:l:729:THR:OG1	2.13	0.67
1:t:262:ASN:O	1:t:266:GLY:N	2.28	0.67
1:w:612:VAL:O	1:w:729:THR:OG1	2.13	0.67
1:x:570:ASN:HD21	1:x:607:TRP:HB2	1.60	0.67
1:z:262:ASN:O	1:z:266:GLY:N	2.28	0.67
1:8:570:ASN:HD21	1:8:607:TRP:HB2	1.60	0.67
1:B:262:ASN:O	1:B:266:GLY:N	2.28	0.67
1:B:526:SER:C	1:B:527:HIS:O	2.14	0.67
1:N:262:ASN:O	1:N:266:GLY:N	2.28	0.67
1:R:570:ASN:HD21	1:R:607:TRP:HB2	1.60	0.67
1:R:612:VAL:O	1:R:729:THR:OG1	2.13	0.67
1:T:262:ASN:O	1:T:266:GLY:N	2.28	0.67
1:V:262:ASN:O	1:V:266:GLY:N	2.28	0.67
1:1:262:ASN:O	1:1:266:GLY:N	2.28	0.67
1:2:526:SER:C	1:2:527:HIS:O	2.15	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:262:ASN:O	1:a:266:GLY:N	2.28	0.67
1:f:309:ARG:NH2	1:f:686:GLU:OE1	2.24	0.67
1:h:309:ARG:NH2	1:h:686:GLU:OE1	2.24	0.67
1:o:262:ASN:O	1:o:266:GLY:N	2.28	0.67
1:p:252:TYR:OH	1:p:374:ILE:O	2.09	0.67
1:p:262:ASN:O	1:p:266:GLY:N	2.28	0.67
1:p:526:SER:C	1:p:527:HIS:O	2.14	0.67
1:t:570:ASN:HD21	1:t:607:TRP:HB2	1.60	0.67
1:u:262:ASN:O	1:u:266:GLY:N	2.28	0.67
1:D:252:TYR:OH	1:D:374:ILE:O	2.10	0.67
1:D:262:ASN:O	1:D:266:GLY:N	2.28	0.67
1:H:262:ASN:O	1:H:266:GLY:N	2.28	0.67
1:M:570:ASN:HD21	1:M:607:TRP:HB2	1.60	0.67
1:Y:262:ASN:O	1:Y:266:GLY:N	2.28	0.67
1:Y:612:VAL:O	1:Y:729:THR:OG1	2.13	0.67
1:d:579:GLN:NE2	1:d:593:THR:OG1	2.26	0.67
1:f:612:VAL:O	1:f:729:THR:OG1	2.13	0.67
1:h:262:ASN:O	1:h:266:GLY:N	2.28	0.67
1:k:262:ASN:O	1:k:266:GLY:N	2.28	0.67
1:s:579:GLN:NE2	1:s:593:THR:OG1	2.26	0.67
1:w:262:ASN:O	1:w:266:GLY:N	2.28	0.67
1:B:252:TYR:OH	1:B:374:ILE:O	2.10	0.66
1:F:262:ASN:O	1:F:266:GLY:N	2.28	0.66
1:H:612:VAL:O	1:H:729:THR:OG1	2.13	0.66
1:Q:262:ASN:O	1:Q:266:GLY:N	2.28	0.66
1:S:252:TYR:OH	1:S:374:ILE:O	2.10	0.66
1:U:262:ASN:O	1:U:266:GLY:N	2.28	0.66
1:6:262:ASN:O	1:6:266:GLY:N	2.28	0.66
1:d:262:ASN:O	1:d:266:GLY:N	2.28	0.66
1:f:570:ASN:HD21	1:f:607:TRP:HB2	1.60	0.66
1:i:262:ASN:O	1:i:266:GLY:N	2.28	0.66
1:k:612:VAL:O	1:k:729:THR:OG1	2.13	0.66
1:m:262:ASN:O	1:m:266:GLY:N	2.28	0.66
1:m:612:VAL:O	1:m:729:THR:OG1	2.13	0.66
1:r:526:SER:C	1:r:527:HIS:O	2.15	0.66
1:s:262:ASN:O	1:s:266:GLY:N	2.28	0.66
1:8:262:ASN:O	1:8:266:GLY:N	2.28	0.66
1:E:570:ASN:HD21	1:E:607:TRP:HB2	1.60	0.66
1:F:579:GLN:NE2	1:F:593:THR:OG1	2.26	0.66
1:I:579:GLN:NE2	1:I:593:THR:OG1	2.26	0.66
1:K:262:ASN:O	1:K:266:GLY:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:570:ASN:HD21	1:L:607:TRP:HB2	1.60	0.66
1:L:579:GLN:NE2	1:L:593:THR:OG1	2.26	0.66
1:S:579:GLN:NE2	1:S:593:THR:OG1	2.26	0.66
1:T:252:TYR:OH	1:T:374:ILE:O	2.10	0.66
1:T:579:GLN:NE2	1:T:593:THR:OG1	2.26	0.66
1:W:309:ARG:NH2	1:W:686:GLU:OE1	2.24	0.66
1:X:570:ASN:HD21	1:X:607:TRP:HB2	1.60	0.66
1:2:612:VAL:O	1:2:729:THR:OG1	2.13	0.66
1:3:526:SER:C	1:3:527:HIS:O	2.14	0.66
1:4:262:ASN:O	1:4:266:GLY:N	2.28	0.66
1:a:252:TYR:OH	1:a:374:ILE:O	2.10	0.66
1:c:262:ASN:O	1:c:266:GLY:N	2.28	0.66
1:f:262:ASN:O	1:f:266:GLY:N	2.28	0.66
1:h:612:VAL:O	1:h:729:THR:OG1	2.13	0.66
1:v:612:VAL:O	1:v:729:THR:OG1	2.13	0.66
1:x:526:SER:C	1:x:527:HIS:O	2.14	0.66
1:x:612:VAL:O	1:x:729:THR:OG1	2.13	0.66
1:y:262:ASN:O	1:y:266:GLY:N	2.28	0.66
1:7:612:VAL:O	1:7:729:THR:OG1	2.13	0.66
1:8:612:VAL:O	1:8:729:THR:OG1	2.13	0.66
1:P:262:ASN:O	1:P:266:GLY:N	2.28	0.66
1:R:262:ASN:O	1:R:266:GLY:N	2.28	0.66
1:X:716:ASN:OD1	1:X:717:THR:N	2.27	0.66
1:Z:262:ASN:O	1:Z:266:GLY:N	2.28	0.66
1:3:612:VAL:O	1:3:729:THR:OG1	2.13	0.66
1:b:262:ASN:O	1:b:266:GLY:N	2.28	0.66
1:e:570:ASN:HD21	1:e:607:TRP:HB2	1.60	0.66
1:g:570:ASN:HD21	1:g:607:TRP:HB2	1.60	0.66
1:g:716:ASN:OD1	1:g:717:THR:N	2.27	0.66
1:i:570:ASN:HD21	1:i:607:TRP:HB2	1.60	0.66
1:j:262:ASN:O	1:j:266:GLY:N	2.28	0.66
1:o:570:ASN:HD21	1:o:607:TRP:HB2	1.60	0.66
1:w:570:ASN:HD21	1:w:607:TRP:HB2	1.60	0.66
1:7:262:ASN:O	1:7:266:GLY:N	2.28	0.66
1:A:262:ASN:O	1:A:266:GLY:N	2.28	0.66
1:B:612:VAL:O	1:B:729:THR:OG1	2.13	0.66
1:F:570:ASN:HD21	1:F:607:TRP:HB2	1.60	0.66
1:I:570:ASN:HD21	1:I:607:TRP:HB2	1.60	0.66
1:V:612:VAL:O	1:V:729:THR:OG1	2.13	0.66
1:o:579:GLN:NE2	1:o:593:THR:OG1	2.26	0.66
1:G:262:ASN:O	1:G:266:GLY:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:570:ASN:HD21	1:H:607:TRP:HB2	1.60	0.66
1:N:612:VAL:O	1:N:729:THR:OG1	2.13	0.66
1:X:262:ASN:O	1:X:266:GLY:N	2.28	0.66
1:6:612:VAL:O	1:6:729:THR:OG1	2.13	0.66
1:d:570:ASN:HD21	1:d:607:TRP:HB2	1.60	0.66
1:l:309:ARG:NH2	1:l:686:GLU:OE1	2.24	0.66
1:q:262:ASN:O	1:q:266:GLY:N	2.28	0.66
1:v:262:ASN:O	1:v:266:GLY:N	2.28	0.66
1:A:570:ASN:HD21	1:A:607:TRP:HB2	1.60	0.66
1:N:570:ASN:HD21	1:N:607:TRP:HB2	1.60	0.66
1:2:262:ASN:O	1:2:266:GLY:N	2.28	0.66
1:n:262:ASN:O	1:n:266:GLY:N	2.28	0.66
1:p:612:VAL:O	1:p:729:THR:OG1	2.13	0.66
1:r:262:ASN:O	1:r:266:GLY:N	2.28	0.66
1:s:570:ASN:HD21	1:s:607:TRP:HB2	1.60	0.66
1:G:526:SER:C	1:G:527:HIS:O	2.15	0.66
1:I:262:ASN:O	1:I:266:GLY:N	2.28	0.66
1:J:262:ASN:O	1:J:266:GLY:N	2.28	0.66
1:O:612:VAL:O	1:O:729:THR:OG1	2.13	0.66
1:1:570:ASN:HD21	1:1:607:TRP:HB2	1.60	0.66
1:g:262:ASN:O	1:g:266:GLY:N	2.28	0.66
1:k:570:ASN:HD21	1:k:607:TRP:HB2	1.60	0.66
1:r:579:GLN:NE2	1:r:593:THR:OG1	2.26	0.66
1:E:579:GLN:NE2	1:E:593:THR:OG1	2.26	0.66
1:G:579:GLN:NE2	1:G:593:THR:OG1	2.26	0.66
1:M:612:VAL:O	1:M:729:THR:OG1	2.13	0.66
1:U:570:ASN:HD21	1:U:607:TRP:HB2	1.60	0.66
1:4:570:ASN:HD21	1:4:607:TRP:HB2	1.60	0.66
1:6:570:ASN:HD21	1:6:607:TRP:HB2	1.60	0.66
1:q:570:ASN:HD21	1:q:607:TRP:HB2	1.60	0.66
1:u:252:TYR:OH	1:u:374:ILE:O	2.09	0.66
1:L:716:ASN:OD1	1:L:717:THR:N	2.27	0.66
1:O:262:ASN:O	1:O:266:GLY:N	2.28	0.66
1:Y:309:ARG:NH2	1:Y:686:GLU:OE1	2.24	0.66
1:5:612:VAL:O	1:5:729:THR:OG1	2.13	0.66
1:c:323:LYS:NZ	1:c:336:ASN:OD1	2.29	0.66
1:l:526:SER:C	1:l:527:HIS:O	2.14	0.66
1:p:570:ASN:HD21	1:p:607:TRP:HB2	1.60	0.66
1:x:323:LYS:NZ	1:x:336:ASN:OD1	2.29	0.66
1:z:570:ASN:HD21	1:z:607:TRP:HB2	1.60	0.66
1:C:252:TYR:OH	1:C:374:ILE:O	2.09	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:716:ASN:OD1	1:C:717:THR:N	2.27	0.66
1:H:272:ASN:OD1	1:Y:471:MET:N	2.29	0.66
1:N:579:GLN:NE2	1:N:593:THR:OG1	2.26	0.66
1:O:570:ASN:HD21	1:O:607:TRP:HB2	1.60	0.66
1:Q:323:LYS:NZ	1:Q:336:ASN:OD1	2.29	0.66
1:Z:612:VAL:O	1:Z:729:THR:OG1	2.13	0.66
1:3:323:LYS:NZ	1:3:336:ASN:OD1	2.29	0.66
1:5:262:ASN:O	1:5:266:GLY:N	2.28	0.66
1:e:579:GLN:NE2	1:e:593:THR:OG1	2.26	0.66
1:k:272:ASN:OD1	1:m:471:MET:N	2.29	0.66
1:o:716:ASN:OD1	1:o:717:THR:N	2.27	0.66
1:t:612:VAL:O	1:t:729:THR:OG1	2.13	0.66
1:u:716:ASN:OD1	1:u:717:THR:N	2.27	0.66
1:H:716:ASN:OD1	1:H:717:THR:N	2.27	0.65
1:W:471:MET:N	1:Y:272:ASN:OD1	2.29	0.65
1:W:570:ASN:HD21	1:W:607:TRP:HB2	1.60	0.65
1:5:570:ASN:HD21	1:5:607:TRP:HB2	1.60	0.65
1:6:579:GLN:NE2	1:6:593:THR:OG1	2.26	0.65
1:b:570:ASN:HD21	1:b:607:TRP:HB2	1.60	0.65
1:b:716:ASN:OD1	1:b:717:THR:N	2.27	0.65
1:c:570:ASN:HD21	1:c:607:TRP:HB2	1.60	0.65
1:s:323:LYS:NZ	1:s:336:ASN:OD1	2.29	0.65
1:x:262:ASN:O	1:x:266:GLY:N	2.28	0.65
1:z:579:GLN:NE2	1:z:593:THR:OG1	2.26	0.65
1:A:473:VAL:HG13	1:G:517:LEU:HD23	1.78	0.65
1:B:570:ASN:HD21	1:B:607:TRP:HB2	1.60	0.65
1:G:252:TYR:OH	1:G:374:ILE:O	2.10	0.65
1:P:570:ASN:HD21	1:P:607:TRP:HB2	1.60	0.65
1:Q:570:ASN:HD21	1:Q:607:TRP:HB2	1.60	0.65
1:S:570:ASN:HD21	1:S:607:TRP:HB2	1.60	0.65
1:T:570:ASN:HD21	1:T:607:TRP:HB2	1.60	0.65
1:Y:323:LYS:NZ	1:Y:336:ASN:OD1	2.29	0.65
1:Z:526:SER:C	1:Z:527:HIS:O	2.14	0.65
1:1:471:MET:N	1:8:272:ASN:OD1	2.29	0.65
1:1:579:GLN:NE2	1:1:593:THR:OG1	2.26	0.65
1:3:262:ASN:O	1:3:266:GLY:N	2.28	0.65
1:g:579:GLN:NE2	1:g:593:THR:OG1	2.26	0.65
1:j:526:SER:C	1:j:527:HIS:O	2.14	0.65
1:j:612:VAL:O	1:j:729:THR:OG1	2.13	0.65
1:l:471:MET:N	1:m:272:ASN:OD1	2.30	0.65
1:l:570:ASN:HD21	1:l:607:TRP:HB2	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:309:ARG:NH2	1:m:686:GLU:OE1	2.24	0.65
1:n:309:ARG:NH2	1:n:686:GLU:OE1	2.24	0.65
1:r:252:TYR:OH	1:r:374:ILE:O	2.10	0.65
1:7:323:LYS:NZ	1:7:336:ASN:OD1	2.29	0.65
1:7:526:SER:C	1:7:527:HIS:O	2.15	0.65
1:8:323:LYS:NZ	1:8:336:ASN:OD1	2.29	0.65
1:8:526:SER:C	1:8:527:HIS:O	2.15	0.65
1:H:309:ARG:NH2	1:H:686:GLU:OE1	2.24	0.65
1:K:323:LYS:NZ	1:K:336:ASN:OD1	2.29	0.65
1:N:473:VAL:HG13	1:P:517:LEU:HD23	1.78	0.65
1:4:471:MET:N	1:f:272:ASN:OD1	2.30	0.65
1:a:570:ASN:HD21	1:a:607:TRP:HB2	1.60	0.65
1:b:323:LYS:NZ	1:b:336:ASN:OD1	2.29	0.65
1:e:612:VAL:O	1:e:729:THR:OG1	2.13	0.65
1:i:323:LYS:NZ	1:i:336:ASN:OD1	2.29	0.65
1:k:716:ASN:OD1	1:k:717:THR:N	2.27	0.65
1:m:323:LYS:NZ	1:m:336:ASN:OD1	2.29	0.65
1:w:323:LYS:NZ	1:w:336:ASN:OD1	2.29	0.65
1:y:323:LYS:NZ	1:y:336:ASN:OD1	2.29	0.65
1:z:471:MET:N	1:7:272:ASN:OD1	2.29	0.65
1:E:612:VAL:O	1:E:729:THR:OG1	2.13	0.65
1:J:309:ARG:NH2	1:J:686:GLU:OE1	2.24	0.65
1:M:272:ASN:OD1	1:2:471:MET:N	2.29	0.65
1:P:323:LYS:NZ	1:P:336:ASN:OD1	2.29	0.65
1:P:716:ASN:OD1	1:P:717:THR:N	2.27	0.65
1:R:272:ASN:OD1	1:U:471:MET:N	2.30	0.65
1:2:716:ASN:OD1	1:2:717:THR:N	2.27	0.65
1:6:272:ASN:OD1	1:a:471:MET:N	2.29	0.65
1:t:272:ASN:OD1	1:v:471:MET:N	2.29	0.65
1:B:309:ARG:NH2	1:B:686:GLU:OE1	2.24	0.65
1:D:570:ASN:HD21	1:D:607:TRP:HB2	1.60	0.65
1:E:309:ARG:NH2	1:E:686:GLU:OE1	2.24	0.65
1:L:612:VAL:O	1:L:729:THR:OG1	2.13	0.65
1:S:473:VAL:HG13	1:U:517:LEU:HD23	1.79	0.65
1:T:612:VAL:O	1:T:729:THR:OG1	2.13	0.65
1:Z:473:VAL:HG13	1:x:517:LEU:HD23	1.79	0.65
1:3:517:LEU:HD23	1:j:473:VAL:HG13	1.79	0.65
1:s:612:VAL:O	1:s:729:THR:OG1	2.13	0.65
1:v:526:SER:C	1:v:527:HIS:O	2.14	0.65
1:D:612:VAL:O	1:D:729:THR:OG1	2.13	0.65
1:G:471:MET:N	1:I:272:ASN:OD1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:473:VAL:HG13	1:4:517:LEU:HD23	1.79	0.65
1:X:517:LEU:HD23	1:5:473:VAL:HG13	1.79	0.65
1:X:579:GLN:NE2	1:X:593:THR:OG1	2.26	0.65
1:X:612:VAL:O	1:X:729:THR:OG1	2.13	0.65
1:6:517:LEU:HD23	1:a:473:VAL:HG13	1.79	0.65
1:a:517:LEU:HD23	1:b:473:VAL:HG13	1.79	0.65
1:c:612:VAL:O	1:c:729:THR:OG1	2.13	0.65
1:k:309:ARG:NH2	1:k:686:GLU:OE1	2.24	0.65
1:r:471:MET:N	1:s:272:ASN:OD1	2.29	0.65
1:t:716:ASN:OD1	1:t:717:THR:N	2.27	0.65
1:v:716:ASN:OD1	1:v:717:THR:N	2.27	0.65
1:B:517:LEU:HD23	1:L:473:VAL:HG13	1.79	0.65
1:I:612:VAL:O	1:I:729:THR:OG1	2.13	0.65
1:M:716:ASN:OD1	1:M:717:THR:N	2.27	0.65
1:O:517:LEU:HD23	1:h:473:VAL:HG13	1.79	0.65
1:Q:612:VAL:O	1:Q:729:THR:OG1	2.13	0.65
1:S:323:LYS:NZ	1:S:336:ASN:OD1	2.29	0.65
1:T:323:LYS:NZ	1:T:336:ASN:OD1	2.29	0.65
1:1:612:VAL:O	1:1:729:THR:OG1	2.13	0.65
1:a:612:VAL:O	1:a:729:THR:OG1	2.13	0.65
1:p:309:ARG:NH2	1:p:686:GLU:OE1	2.24	0.65
1:t:517:LEU:HD23	1:v:473:VAL:HG13	1.79	0.65
1:M:517:LEU:HD23	1:2:473:VAL:HG13	1.79	0.65
1:O:473:VAL:HG13	1:g:517:LEU:HD23	1.79	0.65
1:R:252:TYR:OH	1:R:374:ILE:O	2.09	0.65
1:S:612:VAL:O	1:S:729:THR:OG1	2.13	0.65
1:X:309:ARG:NH2	1:X:686:GLU:OE1	2.24	0.65
1:5:323:LYS:NZ	1:5:336:ASN:OD1	2.29	0.65
1:d:473:VAL:HG13	1:e:517:LEU:HD23	1.79	0.65
1:e:309:ARG:NH2	1:e:686:GLU:OE1	2.24	0.65
1:f:252:TYR:OH	1:f:374:ILE:O	2.09	0.65
1:g:612:VAL:O	1:g:729:THR:OG1	2.13	0.65
1:o:473:VAL:HG13	1:p:517:LEU:HD23	1.79	0.65
1:o:612:VAL:O	1:o:729:THR:OG1	2.13	0.65
1:p:716:ASN:OD1	1:p:717:THR:N	2.27	0.65
1:q:473:VAL:HG13	1:r:517:LEU:HD23	1.79	0.65
1:C:517:LEU:HD23	1:M:473:VAL:HG13	1.79	0.65
1:D:517:LEU:HD23	1:P:473:VAL:HG13	1.79	0.65
1:E:262:ASN:HD22	1:E:273:ALA:HA	1.62	0.65
1:E:517:LEU:HD23	1:F:473:VAL:HG13	1.79	0.65
1:O:323:LYS:NZ	1:O:336:ASN:OD1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:473:VAL:HG13	1:5:517:LEU:HD23	1.79	0.65
1:1:716:ASN:OD1	1:1:717:THR:N	2.27	0.65
1:4:262:ASN:HD22	1:4:273:ALA:HA	1.62	0.65
1:e:262:ASN:HD22	1:e:273:ALA:HA	1.62	0.65
1:g:471:MET:N	1:h:272:ASN:OD1	2.29	0.65
1:k:262:ASN:HD22	1:k:273:ALA:HA	1.62	0.65
1:n:471:MET:N	1:o:272:ASN:OD1	2.29	0.65
1:z:612:VAL:O	1:z:729:THR:OG1	2.13	0.65
1:B:716:ASN:OD1	1:B:717:THR:N	2.27	0.65
1:D:473:VAL:HG13	1:N:517:LEU:HD23	1.79	0.65
1:H:262:ASN:HD22	1:H:273:ALA:HA	1.62	0.65
1:J:473:VAL:HG13	1:L:517:LEU:HD23	1.79	0.65
1:K:262:ASN:HD22	1:K:273:ALA:HA	1.62	0.65
1:K:471:MET:N	1:1:272:ASN:OD1	2.30	0.65
1:P:612:VAL:O	1:P:729:THR:OG1	2.13	0.65
1:Q:262:ASN:HD22	1:Q:273:ALA:HA	1.62	0.65
1:U:262:ASN:HD22	1:U:273:ALA:HA	1.62	0.65
1:V:272:ASN:OD1	1:X:471:MET:N	2.29	0.65
1:Z:355:VAL:H	1:Z:646:GLN:NE2	1.95	0.65
1:c:262:ASN:HD22	1:c:273:ALA:HA	1.62	0.65
1:c:272:ASN:OD1	1:e:471:MET:N	2.29	0.65
1:j:355:VAL:H	1:j:646:GLN:NE2	1.95	0.65
1:m:252:TYR:OH	1:m:374:ILE:O	2.09	0.65
1:p:260:ILE:HD11	1:p:278:SER:HB3	1.79	0.65
1:y:262:ASN:HD22	1:y:273:ALA:HA	1.62	0.65
1:z:716:ASN:OD1	1:z:717:THR:N	2.27	0.65
1:E:272:ASN:OD1	1:F:471:MET:N	2.29	0.64
1:O:355:VAL:H	1:O:646:GLN:NE2	1.96	0.64
1:R:355:VAL:H	1:R:646:GLN:NE2	1.96	0.64
1:R:716:ASN:OD1	1:R:717:THR:N	2.27	0.64
1:S:471:MET:N	1:U:272:ASN:OD1	2.29	0.64
1:Y:252:TYR:OH	1:Y:374:ILE:O	2.09	0.64
1:1:473:VAL:HG13	1:8:517:LEU:HD23	1.79	0.64
1:2:262:ASN:HD22	1:2:273:ALA:HA	1.62	0.64
1:5:355:VAL:H	1:5:646:GLN:NE2	1.96	0.64
1:t:473:VAL:HG13	1:u:517:LEU:HD23	1.79	0.64
1:v:262:ASN:HD22	1:v:273:ALA:HA	1.62	0.64
1:y:471:MET:N	1:z:272:ASN:OD1	2.30	0.64
1:z:473:VAL:HG13	1:7:517:LEU:HD23	1.79	0.64
1:B:260:ILE:HD11	1:B:278:SER:HB3	1.80	0.64
1:D:355:VAL:H	1:D:646:GLN:NE2	1.96	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:260:ILE:HD11	1:E:278:SER:HB3	1.80	0.64
1:E:471:MET:N	1:Q:272:ASN:OD1	2.29	0.64
1:K:579:GLN:NE2	1:K:593:THR:OG1	2.26	0.64
1:N:442:GLN:NE2	1:P:358:SER:O	2.30	0.64
1:T:471:MET:N	1:4:272:ASN:OD1	2.29	0.64
1:Z:262:ASN:HD22	1:Z:273:ALA:HA	1.62	0.64
1:1:323:LYS:NZ	1:1:336:ASN:OD1	2.29	0.64
1:6:473:VAL:HG13	1:b:517:LEU:HD23	1.79	0.64
1:a:355:VAL:H	1:a:646:GLN:NE2	1.96	0.64
1:c:517:LEU:HD23	1:e:473:VAL:HG13	1.79	0.64
1:e:260:ILE:HD11	1:e:278:SER:HB3	1.80	0.64
1:f:262:ASN:HD22	1:f:273:ALA:HA	1.62	0.64
1:f:355:VAL:H	1:f:646:GLN:NE2	1.96	0.64
1:g:309:ARG:NH2	1:g:686:GLU:OE1	2.24	0.64
1:j:262:ASN:HD22	1:j:273:ALA:HA	1.62	0.64
1:n:473:VAL:HG13	1:o:517:LEU:HD23	1.79	0.64
1:C:260:ILE:HD11	1:C:278:SER:HB3	1.80	0.64
1:D:260:ILE:HD11	1:D:278:SER:HB3	1.80	0.64
1:D:471:MET:N	1:N:272:ASN:OD1	2.31	0.64
1:E:473:VAL:HG13	1:Q:517:LEU:HD23	1.79	0.64
1:J:260:ILE:HD11	1:J:278:SER:HB3	1.80	0.64
1:K:355:VAL:H	1:K:646:GLN:NE2	1.96	0.64
1:O:252:TYR:OH	1:O:374:ILE:O	2.09	0.64
1:R:262:ASN:HD22	1:R:273:ALA:HA	1.62	0.64
1:b:612:VAL:O	1:b:729:THR:OG1	2.13	0.64
1:c:309:ARG:NH2	1:c:686:GLU:OE1	2.24	0.64
1:d:471:MET:N	1:e:272:ASN:OD1	2.29	0.64
1:f:716:ASN:OD1	1:f:717:THR:N	2.27	0.64
1:i:355:VAL:H	1:i:646:GLN:NE2	1.96	0.64
1:n:260:ILE:HD11	1:n:278:SER:HB3	1.80	0.64
1:u:260:ILE:HD11	1:u:278:SER:HB3	1.80	0.64
1:y:355:VAL:H	1:y:646:GLN:NE2	1.96	0.64
1:y:579:GLN:NE2	1:y:593:THR:OG1	2.26	0.64
1:z:323:LYS:NZ	1:z:336:ASN:OD1	2.29	0.64
1:B:471:MET:N	1:J:272:ASN:OD1	2.29	0.64
1:F:260:ILE:HD11	1:F:278:SER:HB3	1.80	0.64
1:G:355:VAL:H	1:G:646:GLN:NE2	1.96	0.64
1:G:473:VAL:HG13	1:I:517:LEU:HD23	1.79	0.64
1:G:716:ASN:OD1	1:G:717:THR:N	2.27	0.64
1:O:260:ILE:HD11	1:O:278:SER:HB3	1.80	0.64
1:Q:309:ARG:NH2	1:Q:686:GLU:OE1	2.24	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:579:GLN:NE2	1:Q:593:THR:OG1	2.26	0.64
1:Z:716:ASN:OD1	1:Z:717:THR:N	2.27	0.64
1:4:260:ILE:HD11	1:4:278:SER:HB3	1.80	0.64
1:5:262:ASN:HD22	1:5:273:ALA:HA	1.62	0.64
1:a:260:ILE:HD11	1:a:278:SER:HB3	1.80	0.64
1:a:272:ASN:OD1	1:b:471:MET:N	2.29	0.64
1:b:579:GLN:NE2	1:b:593:THR:OG1	2.26	0.64
1:c:579:GLN:NE2	1:c:593:THR:OG1	2.26	0.64
1:d:355:VAL:H	1:d:646:GLN:NE2	1.95	0.64
1:j:716:ASN:OD1	1:j:717:THR:N	2.27	0.64
1:l:262:ASN:HD22	1:l:273:ALA:HA	1.62	0.64
1:l:355:VAL:H	1:l:646:GLN:NE2	1.96	0.64
1:n:272:ASN:OD1	1:p:471:MET:N	2.29	0.64
1:r:262:ASN:HD22	1:r:273:ALA:HA	1.62	0.64
1:w:260:ILE:HD11	1:w:278:SER:HB3	1.80	0.64
1:w:355:VAL:H	1:w:646:GLN:NE2	1.96	0.64
1:G:612:VAL:O	1:G:729:THR:OG1	2.13	0.64
1:I:260:ILE:HD11	1:I:278:SER:HB3	1.80	0.64
1:I:309:ARG:NH2	1:I:686:GLU:OE1	2.24	0.64
1:N:355:VAL:H	1:N:646:GLN:NE2	1.96	0.64
1:R:262:ASN:ND2	1:R:273:ALA:HA	2.13	0.64
1:S:262:ASN:ND2	1:S:273:ALA:HA	2.13	0.64
1:T:262:ASN:ND2	1:T:273:ALA:HA	2.13	0.64
1:U:260:ILE:HD11	1:U:278:SER:HB3	1.80	0.64
1:W:355:VAL:H	1:W:646:GLN:NE2	1.96	0.64
1:5:260:ILE:HD11	1:5:278:SER:HB3	1.80	0.64
1:6:260:ILE:HD11	1:6:278:SER:HB3	1.80	0.64
1:6:355:VAL:H	1:6:646:GLN:NE2	1.96	0.64
1:a:262:ASN:HD22	1:a:273:ALA:HA	1.62	0.64
1:d:260:ILE:HD11	1:d:278:SER:HB3	1.80	0.64
1:f:262:ASN:ND2	1:f:273:ALA:HA	2.13	0.64
1:g:260:ILE:HD11	1:g:278:SER:HB3	1.79	0.64
1:i:260:ILE:HD11	1:i:278:SER:HB3	1.80	0.64
1:m:262:ASN:HD22	1:m:273:ALA:HA	1.62	0.64
1:n:355:VAL:H	1:n:646:GLN:NE2	1.95	0.64
1:r:260:ILE:HD11	1:r:278:SER:HB3	1.80	0.64
1:r:473:VAL:HG13	1:s:517:LEU:HD23	1.79	0.64
1:r:716:ASN:OD1	1:r:717:THR:N	2.27	0.64
1:s:260:ILE:HD11	1:s:278:SER:HB3	1.80	0.64
1:7:260:ILE:HD11	1:7:278:SER:HB3	1.80	0.64
1:8:260:ILE:HD11	1:8:278:SER:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:355:VAL:H	1:F:646:GLN:NE2	1.96	0.64
1:G:260:ILE:HD11	1:G:278:SER:HB3	1.80	0.64
1:J:323:LYS:NZ	1:J:336:ASN:OD1	2.29	0.64
1:J:355:VAL:H	1:J:646:GLN:NE2	1.96	0.64
1:J:612:VAL:O	1:J:729:THR:OG1	2.13	0.64
1:M:260:ILE:HD11	1:M:278:SER:HB3	1.80	0.64
1:N:260:ILE:HD11	1:N:278:SER:HB3	1.80	0.64
1:O:262:ASN:ND2	1:O:273:ALA:HA	2.13	0.64
1:X:260:ILE:HD11	1:X:278:SER:HB3	1.79	0.64
1:Y:262:ASN:HD22	1:Y:273:ALA:HA	1.62	0.64
1:Z:309:ARG:NH2	1:Z:686:GLU:OE1	2.24	0.64
1:1:355:VAL:H	1:1:646:GLN:NE2	1.96	0.64
1:i:262:ASN:HD22	1:i:273:ALA:HA	1.62	0.64
1:n:612:VAL:O	1:n:729:THR:OG1	2.13	0.64
1:r:355:VAL:H	1:r:646:GLN:NE2	1.96	0.64
1:t:260:ILE:HD11	1:t:278:SER:HB3	1.80	0.64
1:w:262:ASN:HD22	1:w:273:ALA:HA	1.62	0.64
1:z:355:VAL:H	1:z:646:GLN:NE2	1.96	0.64
1:8:355:VAL:H	1:8:646:GLN:NE2	1.96	0.64
1:A:355:VAL:H	1:A:646:GLN:NE2	1.96	0.64
1:B:272:ASN:OD1	1:L:471:MET:N	2.29	0.64
1:D:262:ASN:HD22	1:D:273:ALA:HA	1.62	0.64
1:D:272:ASN:OD1	1:P:471:MET:N	2.29	0.64
1:G:262:ASN:HD22	1:G:273:ALA:HA	1.62	0.64
1:L:355:VAL:H	1:L:646:GLN:NE2	1.95	0.64
1:O:262:ASN:HD22	1:O:273:ALA:HA	1.62	0.64
1:P:579:GLN:NE2	1:P:593:THR:OG1	2.26	0.64
1:V:355:VAL:H	1:V:646:GLN:NE2	1.95	0.64
1:W:262:ASN:HD22	1:W:273:ALA:HA	1.62	0.64
1:X:262:ASN:ND2	1:X:273:ALA:HA	2.13	0.64
1:3:260:ILE:HD11	1:3:278:SER:HB3	1.80	0.64
1:5:252:TYR:OH	1:5:374:ILE:O	2.09	0.64
1:5:262:ASN:ND2	1:5:273:ALA:HA	2.13	0.64
1:g:262:ASN:ND2	1:g:273:ALA:HA	2.13	0.64
1:j:323:LYS:NZ	1:j:336:ASN:OD1	2.29	0.64
1:n:323:LYS:NZ	1:n:336:ASN:OD1	2.29	0.64
1:o:252:TYR:OH	1:o:374:ILE:O	2.09	0.64
1:q:272:ASN:OD1	1:s:471:MET:N	2.30	0.64
1:q:355:VAL:H	1:q:646:GLN:NE2	1.96	0.64
1:r:612:VAL:O	1:r:729:THR:OG1	2.13	0.64
1:v:262:ASN:ND2	1:v:273:ALA:HA	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:517:LEU:HD23	1:x:473:VAL:HG13	1.79	0.64
1:x:260:ILE:HD11	1:x:278:SER:HB3	1.80	0.64
1:y:309:ARG:NH2	1:y:686:GLU:OE1	2.24	0.64
1:7:355:VAL:H	1:7:646:GLN:NE2	1.96	0.64
1:7:579:GLN:NE2	1:7:593:THR:OG1	2.26	0.64
1:B:355:VAL:H	1:B:646:GLN:NE2	1.96	0.64
1:H:260:ILE:HD11	1:H:278:SER:HB3	1.80	0.64
1:K:309:ARG:NH2	1:K:686:GLU:OE1	2.24	0.64
1:P:355:VAL:H	1:P:646:GLN:NE2	1.96	0.64
1:R:260:ILE:HD11	1:R:278:SER:HB3	1.80	0.64
1:T:262:ASN:HD22	1:T:273:ALA:HA	1.62	0.64
1:W:323:LYS:NZ	1:W:336:ASN:OD1	2.29	0.64
1:2:262:ASN:ND2	1:2:273:ALA:HA	2.13	0.64
1:h:262:ASN:HD22	1:h:273:ALA:HA	1.63	0.64
1:l:260:ILE:HD11	1:l:278:SER:HB3	1.80	0.64
1:p:355:VAL:H	1:p:646:GLN:NE2	1.96	0.64
1:t:252:TYR:OH	1:t:374:ILE:O	2.10	0.64
1:t:323:LYS:NZ	1:t:336:ASN:OD1	2.29	0.64
1:D:262:ASN:ND2	1:D:273:ALA:HA	2.13	0.64
1:D:323:LYS:NZ	1:D:336:ASN:OD1	2.29	0.64
1:H:355:VAL:H	1:H:646:GLN:NE2	1.96	0.64
1:L:262:ASN:ND2	1:L:273:ALA:HA	2.13	0.64
1:T:517:LEU:HD23	1:f:473:VAL:HG13	1.79	0.64
1:V:262:ASN:HD22	1:V:273:ALA:HA	1.63	0.64
1:V:323:LYS:NZ	1:V:336:ASN:OD1	2.29	0.64
1:W:260:ILE:HD11	1:W:278:SER:HB3	1.80	0.64
1:Z:323:LYS:NZ	1:Z:336:ASN:OD1	2.29	0.64
1:3:473:VAL:HG13	1:i:517:LEU:HD23	1.79	0.64
1:a:262:ASN:ND2	1:a:273:ALA:HA	2.13	0.64
1:c:473:VAL:HG13	1:d:517:LEU:HD23	1.79	0.64
1:f:260:ILE:HD11	1:f:278:SER:HB3	1.80	0.64
1:g:473:VAL:HG13	1:h:517:LEU:HD23	1.79	0.64
1:h:355:VAL:H	1:h:646:GLN:NE2	1.95	0.64
1:j:309:ARG:NH2	1:j:686:GLU:OE1	2.24	0.64
1:k:260:ILE:HD11	1:k:278:SER:HB3	1.80	0.64
1:k:355:VAL:H	1:k:646:GLN:NE2	1.96	0.64
1:o:262:ASN:ND2	1:o:273:ALA:HA	2.13	0.64
1:o:471:MET:N	1:p:272:ASN:OD1	2.29	0.64
1:s:309:ARG:NH2	1:s:686:GLU:OE1	2.24	0.64
1:t:262:ASN:ND2	1:t:273:ALA:HA	2.13	0.64
1:z:260:ILE:HD11	1:z:278:SER:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:262:ASN:ND2	1:z:273:ALA:HA	2.13	0.64
1:A:309:ARG:NH2	1:A:686:GLU:OE1	2.24	0.64
1:E:716:ASN:OD1	1:E:717:THR:N	2.27	0.64
1:F:517:LEU:HD23	1:Q:473:VAL:HG13	1.79	0.64
1:H:323:LYS:NZ	1:H:336:ASN:OD1	2.29	0.64
1:M:262:ASN:ND2	1:M:273:ALA:HA	2.13	0.64
1:M:355:VAL:H	1:M:646:GLN:NE2	1.96	0.64
1:S:262:ASN:HD22	1:S:273:ALA:HA	1.62	0.64
1:T:355:VAL:H	1:T:646:GLN:NE2	1.96	0.64
1:W:526:SER:C	1:W:527:HIS:O	2.15	0.64
1:W:716:ASN:OD1	1:W:717:THR:N	2.27	0.64
1:1:260:ILE:HD11	1:1:278:SER:HB3	1.80	0.64
1:1:262:ASN:ND2	1:1:273:ALA:HA	2.13	0.64
1:1:309:ARG:NH2	1:1:686:GLU:OE1	2.24	0.64
1:a:323:LYS:NZ	1:a:336:ASN:OD1	2.29	0.64
1:b:355:VAL:H	1:b:646:GLN:NE2	1.96	0.64
1:l:323:LYS:NZ	1:l:336:ASN:OD1	2.29	0.64
1:o:355:VAL:H	1:o:646:GLN:NE2	1.96	0.64
1:8:579:GLN:NE2	1:8:593:THR:OG1	2.26	0.64
1:M:323:LYS:NZ	1:M:336:ASN:OD1	2.30	0.63
1:N:323:LYS:NZ	1:N:336:ASN:OD1	2.29	0.63
1:R:473:VAL:HG13	1:S:517:LEU:HD23	1.79	0.63
1:6:323:LYS:NZ	1:6:336:ASN:OD1	2.29	0.63
1:d:262:ASN:HD22	1:d:273:ALA:HA	1.62	0.63
1:e:716:ASN:OD1	1:e:717:THR:N	2.27	0.63
1:i:262:ASN:ND2	1:i:273:ALA:HA	2.13	0.63
1:k:323:LYS:NZ	1:k:336:ASN:OD1	2.29	0.63
1:l:262:ASN:ND2	1:l:273:ALA:HA	2.13	0.63
1:t:262:ASN:HD22	1:t:273:ALA:HA	1.62	0.63
1:t:355:VAL:H	1:t:646:GLN:NE2	1.96	0.63
1:w:262:ASN:ND2	1:w:273:ALA:HA	2.13	0.63
1:A:262:ASN:ND2	1:A:273:ALA:HA	2.13	0.63
1:A:358:SER:O	1:I:442:GLN:NE2	2.31	0.63
1:B:473:VAL:HG13	1:J:517:LEU:HD23	1.79	0.63
1:C:309:ARG:NH2	1:C:686:GLU:OE1	2.24	0.63
1:C:355:VAL:H	1:C:646:GLN:NE2	1.96	0.63
1:C:473:VAL:HG13	1:2:517:LEU:HD23	1.79	0.63
1:E:262:ASN:ND2	1:E:273:ALA:HA	2.13	0.63
1:F:262:ASN:HD22	1:F:273:ALA:HA	1.62	0.63
1:F:612:VAL:O	1:F:729:THR:OG1	2.13	0.63
1:I:262:ASN:HD22	1:I:273:ALA:HA	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:262:ASN:ND2	1:Q:273:ALA:HA	2.13	0.63
1:S:355:VAL:H	1:S:646:GLN:NE2	1.96	0.63
1:U:262:ASN:ND2	1:U:273:ALA:HA	2.13	0.63
1:W:262:ASN:ND2	1:W:273:ALA:HA	2.13	0.63
1:3:262:ASN:ND2	1:3:273:ALA:HA	2.13	0.63
1:3:355:VAL:H	1:3:646:GLN:NE2	1.96	0.63
1:h:323:LYS:NZ	1:h:336:ASN:OD1	2.29	0.63
1:k:517:LEU:HD23	1:m:473:VAL:HG13	1.79	0.63
1:m:355:VAL:H	1:m:646:GLN:NE2	1.96	0.63
1:n:517:LEU:HD23	1:p:473:VAL:HG13	1.79	0.63
1:s:262:ASN:HD22	1:s:273:ALA:HA	1.62	0.63
1:u:473:VAL:HG13	1:v:517:LEU:HD23	1.79	0.63
1:w:272:ASN:OD1	1:x:471:MET:N	2.29	0.63
1:A:272:ASN:OD1	1:I:471:MET:N	2.30	0.63
1:H:517:LEU:HD23	1:Y:473:VAL:HG13	1.79	0.63
1:Y:355:VAL:H	1:Y:646:GLN:NE2	1.96	0.63
1:3:471:MET:N	1:i:272:ASN:OD1	2.29	0.63
1:c:262:ASN:ND2	1:c:273:ALA:HA	2.13	0.63
1:e:262:ASN:ND2	1:e:273:ALA:HA	2.13	0.63
1:g:262:ASN:HD22	1:g:273:ALA:HA	1.62	0.63
1:i:473:VAL:HG13	1:j:517:LEU:HD23	1.79	0.63
1:l:473:VAL:HG13	1:m:517:LEU:HD23	1.79	0.63
1:l:716:ASN:OD1	1:l:717:THR:N	2.27	0.63
1:m:262:ASN:ND2	1:m:273:ALA:HA	2.13	0.63
1:q:262:ASN:ND2	1:q:273:ALA:HA	2.13	0.63
1:r:262:ASN:ND2	1:r:273:ALA:HA	2.13	0.63
1:u:355:VAL:H	1:u:646:GLN:NE2	1.96	0.63
1:v:260:ILE:HD11	1:v:278:SER:HB3	1.80	0.63
1:x:262:ASN:ND2	1:x:273:ALA:HA	2.13	0.63
1:x:355:VAL:H	1:x:646:GLN:NE2	1.96	0.63
1:y:473:VAL:HG13	1:z:517:LEU:HD23	1.79	0.63
1:z:309:ARG:NH2	1:z:686:GLU:OE1	2.24	0.63
1:A:517:LEU:HD23	1:I:473:VAL:HG13	1.79	0.63
1:F:262:ASN:ND2	1:F:273:ALA:HA	2.13	0.63
1:G:262:ASN:ND2	1:G:273:ALA:HA	2.13	0.63
1:H:358:SER:O	1:Y:442:GLN:NE2	2.32	0.63
1:K:473:VAL:HG13	1:1:517:LEU:HD23	1.79	0.63
1:M:262:ASN:HD22	1:M:273:ALA:HA	1.62	0.63
1:P:260:ILE:HD11	1:P:278:SER:HB3	1.80	0.63
1:U:355:VAL:H	1:U:646:GLN:NE2	1.96	0.63
1:V:358:SER:O	1:X:442:GLN:NE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:517:LEU:HD23	1:X:473:VAL:HG13	1.79	0.63
1:X:262:ASN:HD22	1:X:273:ALA:HA	1.62	0.63
1:X:355:VAL:H	1:X:646:GLN:NE2	1.96	0.63
1:Y:262:ASN:ND2	1:Y:273:ALA:HA	2.13	0.63
1:Z:262:ASN:ND2	1:Z:273:ALA:HA	2.13	0.63
1:2:260:ILE:HD11	1:2:278:SER:HB3	1.80	0.63
1:2:355:VAL:H	1:2:646:GLN:NE2	1.96	0.63
1:4:262:ASN:ND2	1:4:273:ALA:HA	2.13	0.63
1:b:260:ILE:HD11	1:b:278:SER:HB3	1.80	0.63
1:g:355:VAL:H	1:g:646:GLN:NE2	1.96	0.63
1:g:442:GLN:NE2	1:h:358:SER:O	2.32	0.63
1:j:262:ASN:ND2	1:j:273:ALA:HA	2.13	0.63
1:k:358:SER:O	1:m:442:GLN:NE2	2.32	0.63
1:n:262:ASN:HD22	1:n:273:ALA:HA	1.62	0.63
1:q:262:ASN:HD22	1:q:273:ALA:HA	1.62	0.63
1:q:517:LEU:HD23	1:s:473:VAL:HG13	1.79	0.63
1:A:262:ASN:HD22	1:A:273:ALA:HA	1.62	0.63
1:A:471:MET:N	1:G:272:ASN:OD1	2.29	0.63
1:E:355:VAL:H	1:E:646:GLN:NE2	1.95	0.63
1:H:262:ASN:ND2	1:H:273:ALA:HA	2.13	0.63
1:K:272:ASN:OD1	1:8:471:MET:N	2.29	0.63
1:K:517:LEU:HD23	1:8:473:VAL:HG13	1.79	0.63
1:W:473:VAL:HG13	1:Y:517:LEU:HD23	1.79	0.63
1:Z:517:LEU:HD23	1:w:473:VAL:HG13	1.79	0.63
1:4:355:VAL:H	1:4:646:GLN:NE2	1.96	0.63
1:6:471:MET:N	1:b:272:ASN:OD1	2.30	0.63
1:d:262:ASN:ND2	1:d:273:ALA:HA	2.13	0.63
1:d:612:VAL:O	1:d:729:THR:OG1	2.13	0.63
1:q:358:SER:O	1:s:442:GLN:NE2	2.32	0.63
1:v:355:VAL:H	1:v:646:GLN:NE2	1.96	0.63
1:y:517:LEU:HD23	1:7:473:VAL:HG13	1.79	0.63
1:C:262:ASN:ND2	1:C:273:ALA:HA	2.13	0.63
1:I:355:VAL:H	1:I:646:GLN:NE2	1.95	0.63
1:P:262:ASN:ND2	1:P:273:ALA:HA	2.13	0.63
1:R:517:LEU:HD23	1:U:473:VAL:HG13	1.79	0.63
1:6:309:ARG:NH2	1:6:686:GLU:OE1	2.24	0.63
1:b:262:ASN:ND2	1:b:273:ALA:HA	2.13	0.63
1:e:355:VAL:H	1:e:646:GLN:NE2	1.95	0.63
1:k:262:ASN:ND2	1:k:273:ALA:HA	2.13	0.63
1:m:579:GLN:NE2	1:m:593:THR:OG1	2.26	0.63
1:u:309:ARG:NH2	1:u:686:GLU:OE1	2.24	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:272:ASN:OD1	1:7:471:MET:N	2.29	0.63
1:B:262:ASN:ND2	1:B:273:ALA:HA	2.13	0.63
1:I:262:ASN:ND2	1:I:273:ALA:HA	2.13	0.63
1:J:262:ASN:HD22	1:J:273:ALA:HA	1.63	0.63
1:i:716:ASN:OD1	1:i:717:THR:N	2.27	0.63
1:o:262:ASN:HD22	1:o:273:ALA:HA	1.62	0.63
1:p:262:ASN:ND2	1:p:273:ALA:HA	2.13	0.63
1:u:262:ASN:ND2	1:u:273:ALA:HA	2.13	0.63
1:P:262:ASN:HD22	1:P:273:ALA:HA	1.62	0.63
1:Y:579:GLN:NE2	1:Y:593:THR:OG1	2.26	0.63
1:4:473:VAL:HG13	1:f:517:LEU:HD23	1.79	0.63
1:6:262:ASN:HD22	1:6:273:ALA:HA	1.62	0.63
1:6:442:GLN:NE2	1:b:358:SER:O	2.31	0.63
1:c:355:VAL:H	1:c:646:GLN:NE2	1.96	0.63
1:k:473:VAL:HG13	1:l:517:LEU:HD23	1.79	0.63
1:n:262:ASN:ND2	1:n:273:ALA:HA	2.13	0.63
1:s:262:ASN:ND2	1:s:273:ALA:HA	2.13	0.63
1:s:355:VAL:H	1:s:646:GLN:NE2	1.96	0.63
1:7:262:ASN:HD22	1:7:273:ALA:HA	1.62	0.63
1:C:262:ASN:HD22	1:C:273:ALA:HA	1.62	0.63
1:G:442:GLN:NE2	1:I:358:SER:O	2.32	0.63
1:H:473:VAL:HG13	1:W:517:LEU:HD23	1.79	0.63
1:L:262:ASN:HD22	1:L:273:ALA:HA	1.63	0.63
1:L:309:ARG:NH2	1:L:686:GLU:OE1	2.24	0.63
1:N:262:ASN:HD22	1:N:273:ALA:HA	1.62	0.63
1:N:309:ARG:NH2	1:N:686:GLU:OE1	2.24	0.63
1:R:471:MET:N	1:S:272:ASN:OD1	2.29	0.63
1:1:442:GLN:NE2	1:8:358:SER:O	2.32	0.63
1:u:262:ASN:HD22	1:u:273:ALA:HA	1.62	0.63
1:z:442:GLN:NE2	1:7:358:SER:O	2.32	0.63
1:8:262:ASN:ND2	1:8:273:ALA:HA	2.13	0.63
1:A:260:ILE:HD11	1:A:278:SER:HB3	1.80	0.62
1:A:716:ASN:OD1	1:A:717:THR:N	2.27	0.62
1:B:262:ASN:HD22	1:B:273:ALA:HA	1.62	0.62
1:E:323:LYS:NZ	1:E:336:ASN:OD1	2.29	0.62
1:E:358:SER:O	1:F:442:GLN:NE2	2.32	0.62
1:K:260:ILE:HD11	1:K:278:SER:HB3	1.80	0.62
1:Q:355:VAL:H	1:Q:646:GLN:NE2	1.96	0.62
1:Z:442:GLN:NE2	1:x:358:SER:O	2.32	0.62
1:1:262:ASN:HD22	1:1:273:ALA:HA	1.62	0.62
1:3:358:SER:O	1:j:442:GLN:NE2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:262:ASN:ND2	1:6:273:ALA:HA	2.13	0.62
1:b:262:ASN:HD22	1:b:273:ALA:HA	1.62	0.62
1:e:323:LYS:NZ	1:e:336:ASN:OD1	2.29	0.62
1:q:471:MET:N	1:r:272:ASN:OD1	2.29	0.62
1:r:442:GLN:NE2	1:s:358:SER:O	2.32	0.62
1:w:716:ASN:OD1	1:w:717:THR:N	2.27	0.62
1:y:260:ILE:HD11	1:y:278:SER:HB3	1.80	0.62
1:7:262:ASN:ND2	1:7:273:ALA:HA	2.13	0.62
1:J:262:ASN:ND2	1:J:273:ALA:HA	2.13	0.62
1:K:262:ASN:ND2	1:K:273:ALA:HA	2.13	0.62
1:N:262:ASN:ND2	1:N:273:ALA:HA	2.13	0.62
1:S:260:ILE:HD11	1:S:278:SER:HB3	1.80	0.62
1:T:260:ILE:HD11	1:T:278:SER:HB3	1.80	0.62
1:T:272:ASN:OD1	1:f:471:MET:N	2.29	0.62
1:3:262:ASN:HD22	1:3:273:ALA:HA	1.62	0.62
1:d:442:GLN:NE2	1:e:358:SER:O	2.32	0.62
1:f:323:LYS:NZ	1:f:336:ASN:OD1	2.29	0.62
1:p:262:ASN:HD22	1:p:273:ALA:HA	1.62	0.62
1:p:323:LYS:NZ	1:p:336:ASN:OD1	2.29	0.62
1:q:260:ILE:HD11	1:q:278:SER:HB3	1.80	0.62
1:8:262:ASN:HD22	1:8:273:ALA:HA	1.62	0.62
1:B:323:LYS:NZ	1:B:336:ASN:OD1	2.29	0.62
1:D:358:SER:O	1:P:442:GLN:NE2	2.32	0.62
1:J:442:GLN:NE2	1:L:358:SER:O	2.32	0.62
1:J:471:MET:N	1:L:272:ASN:OD1	2.29	0.62
1:K:442:GLN:NE2	1:1:358:SER:O	2.31	0.62
1:M:358:SER:O	1:2:442:GLN:NE2	2.32	0.62
1:O:716:ASN:OD1	1:O:717:THR:N	2.27	0.62
1:R:323:LYS:NZ	1:R:336:ASN:OD1	2.29	0.62
1:4:442:GLN:NE2	1:f:358:SER:O	2.31	0.62
1:a:358:SER:O	1:b:442:GLN:NE2	2.32	0.62
1:h:262:ASN:ND2	1:h:273:ALA:HA	2.13	0.62
1:n:442:GLN:NE2	1:o:358:SER:O	2.32	0.62
1:t:442:GLN:NE2	1:u:358:SER:O	2.32	0.62
1:y:262:ASN:ND2	1:y:273:ALA:HA	2.13	0.62
1:C:358:SER:O	1:M:442:GLN:NE2	2.32	0.62
1:H:471:MET:N	1:W:272:ASN:OD1	2.29	0.62
1:R:358:SER:O	1:U:442:GLN:NE2	2.31	0.62
1:S:442:GLN:NE2	1:U:358:SER:O	2.32	0.62
1:Z:358:SER:O	1:w:442:GLN:NE2	2.32	0.62
1:5:716:ASN:OD1	1:5:717:THR:N	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:442:GLN:NE2	1:j:358:SER:O	2.32	0.62
1:o:309:ARG:NH2	1:o:686:GLU:OE1	2.24	0.62
1:q:716:ASN:OD1	1:q:717:THR:N	2.27	0.62
1:y:442:GLN:NE2	1:z:358:SER:O	2.31	0.62
1:z:262:ASN:HD22	1:z:273:ALA:HA	1.62	0.62
1:B:442:GLN:NE2	1:J:358:SER:O	2.32	0.62
1:D:716:ASN:OD1	1:D:717:THR:N	2.27	0.62
1:K:358:SER:O	1:8:442:GLN:NE2	2.32	0.62
1:O:272:ASN:OD1	1:h:471:MET:N	2.29	0.62
1:O:358:SER:O	1:h:442:GLN:NE2	2.32	0.62
1:O:442:GLN:NE2	1:g:358:SER:O	2.32	0.62
1:Q:260:ILE:HD11	1:Q:278:SER:HB3	1.80	0.62
1:T:442:GLN:NE2	1:4:358:SER:O	2.32	0.62
1:V:471:MET:N	1:5:272:ASN:OD1	2.29	0.62
1:k:471:MET:N	1:l:272:ASN:OD1	2.29	0.62
1:l:442:GLN:NE2	1:m:358:SER:O	2.32	0.62
1:n:358:SER:O	1:p:442:GLN:NE2	2.32	0.62
1:x:262:ASN:HD22	1:x:273:ALA:HA	1.62	0.62
1:y:358:SER:O	1:7:442:GLN:NE2	2.32	0.62
1:L:260:ILE:HD11	1:L:278:SER:HB3	1.80	0.62
1:N:471:MET:N	1:P:272:ASN:OD1	2.31	0.62
1:O:471:MET:N	1:g:272:ASN:OD1	2.29	0.62
1:S:309:ARG:NH2	1:S:686:GLU:OE1	2.24	0.62
1:T:309:ARG:NH2	1:T:686:GLU:OE1	2.24	0.62
1:V:262:ASN:ND2	1:V:273:ALA:HA	2.13	0.62
1:V:442:GLN:NE2	1:5:358:SER:O	2.32	0.62
1:W:442:GLN:NE2	1:Y:358:SER:O	2.32	0.62
1:X:358:SER:O	1:5:442:GLN:NE2	2.32	0.62
1:3:309:ARG:NH2	1:3:686:GLU:OE1	2.24	0.62
1:c:358:SER:O	1:e:442:GLN:NE2	2.32	0.62
1:c:716:ASN:OD1	1:c:717:THR:N	2.27	0.62
1:h:260:ILE:HD11	1:h:278:SER:HB3	1.80	0.62
1:o:260:ILE:HD11	1:o:278:SER:HB3	1.80	0.62
1:t:358:SER:O	1:v:442:GLN:NE2	2.32	0.62
1:x:309:ARG:NH2	1:x:686:GLU:OE1	2.24	0.62
1:E:442:GLN:NE2	1:Q:358:SER:O	2.32	0.62
1:V:260:ILE:HD11	1:V:278:SER:HB3	1.80	0.62
1:Z:260:ILE:HD11	1:Z:278:SER:HB3	1.80	0.62
1:c:260:ILE:HD11	1:c:278:SER:HB3	1.80	0.62
1:B:358:SER:O	1:L:442:GLN:NE2	2.32	0.62
1:H:442:GLN:NE2	1:W:358:SER:O	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:323:LYS:NZ	1:L:336:ASN:OD1	2.29	0.62
1:a:716:ASN:OD1	1:a:717:THR:N	2.27	0.62
1:g:323:LYS:NZ	1:g:336:ASN:OD1	2.29	0.62
1:o:442:GLN:NE2	1:p:358:SER:O	2.32	0.62
1:X:272:ASN:OD1	1:5:471:MET:N	2.29	0.62
1:j:260:ILE:HD11	1:j:278:SER:HB3	1.80	0.62
1:k:442:GLN:NE2	1:l:358:SER:O	2.32	0.62
1:o:323:LYS:NZ	1:o:336:ASN:OD1	2.29	0.62
1:q:442:GLN:NE2	1:r:358:SER:O	2.32	0.62
1:Q:716:ASN:OD1	1:Q:717:THR:N	2.27	0.62
1:X:323:LYS:NZ	1:X:336:ASN:OD1	2.29	0.62
1:n:361:GLU:HG3	1:n:362:GLY:H	1.65	0.61
1:w:358:SER:O	1:x:442:GLN:NE2	2.32	0.61
1:8:716:ASN:OD1	1:8:717:THR:N	2.27	0.61
1:C:442:GLN:NE2	1:2:358:SER:O	2.31	0.61
1:F:323:LYS:NZ	1:F:336:ASN:OD1	2.29	0.61
1:J:361:GLU:HG3	1:J:362:GLY:H	1.66	0.61
1:R:361:GLU:HG3	1:R:362:GLY:H	1.66	0.61
1:W:361:GLU:HG3	1:W:362:GLY:H	1.65	0.61
1:Y:260:ILE:HD11	1:Y:278:SER:HB3	1.80	0.61
1:Y:716:ASN:OD1	1:Y:717:THR:N	2.27	0.61
1:3:442:GLN:NE2	1:i:358:SER:O	2.32	0.61
1:6:528:LYS:HG2	1:6:529:GLU:H	1.65	0.61
1:d:323:LYS:NZ	1:d:336:ASN:OD1	2.29	0.61
1:m:260:ILE:HD11	1:m:278:SER:HB3	1.80	0.61
1:u:442:GLN:NE2	1:v:358:SER:O	2.31	0.61
1:u:528:LYS:HG2	1:u:529:GLU:H	1.65	0.61
1:A:323:LYS:NZ	1:A:336:ASN:OD1	2.29	0.61
1:A:528:LYS:HG2	1:A:529:GLU:H	1.65	0.61
1:C:361:GLU:HG3	1:C:362:GLY:H	1.65	0.61
1:C:528:LYS:HG2	1:C:529:GLU:H	1.66	0.61
1:M:361:GLU:HG3	1:M:362:GLY:H	1.65	0.61
1:N:528:LYS:HG2	1:N:529:GLU:H	1.65	0.61
1:Y:361:GLU:HG3	1:Y:362:GLY:H	1.66	0.61
1:2:361:GLU:HG3	1:2:362:GLY:H	1.65	0.61
1:4:323:LYS:NZ	1:4:336:ASN:OD1	2.29	0.61
1:f:361:GLU:HG3	1:f:362:GLY:H	1.66	0.61
1:i:471:MET:N	1:j:272:ASN:OD1	2.29	0.61
1:l:361:GLU:HG3	1:l:362:GLY:H	1.65	0.61
1:v:361:GLU:HG3	1:v:362:GLY:H	1.65	0.61
1:A:442:GLN:NE2	1:G:358:SER:O	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:471:MET:N	1:2:272:ASN:OD1	2.30	0.61
1:Z:272:ASN:OD1	1:w:471:MET:N	2.29	0.61
1:3:361:GLU:HG3	1:3:362:GLY:H	1.65	0.61
1:b:361:GLU:HG3	1:b:362:GLY:H	1.65	0.61
1:c:528:LYS:HG2	1:c:529:GLU:H	1.65	0.61
1:i:528:LYS:HG2	1:i:529:GLU:H	1.65	0.61
1:m:361:GLU:HG3	1:m:362:GLY:H	1.66	0.61
1:q:323:LYS:NZ	1:q:336:ASN:OD1	2.29	0.61
1:t:471:MET:N	1:u:272:ASN:OD1	2.29	0.61
1:u:361:GLU:HG3	1:u:362:GLY:H	1.65	0.61
1:w:528:LYS:HG2	1:w:529:GLU:H	1.65	0.61
1:C:272:ASN:OD1	1:M:471:MET:N	2.29	0.61
1:J:716:ASN:OD1	1:J:717:THR:N	2.27	0.61
1:P:361:GLU:HG3	1:P:362:GLY:H	1.66	0.61
1:Q:528:LYS:HG2	1:Q:529:GLU:H	1.65	0.61
1:S:361:GLU:HG3	1:S:362:GLY:H	1.65	0.61
1:U:323:LYS:NZ	1:U:336:ASN:OD1	2.29	0.61
1:V:361:GLU:HG3	1:V:362:GLY:H	1.65	0.61
1:Y:528:LYS:HG2	1:Y:529:GLU:H	1.65	0.61
1:Z:471:MET:N	1:x:272:ASN:OD1	2.29	0.61
1:5:528:LYS:HG2	1:5:529:GLU:H	1.65	0.61
1:c:442:GLN:NE2	1:d:358:SER:O	2.32	0.61
1:e:361:GLU:HG3	1:e:362:GLY:H	1.66	0.61
1:m:528:LYS:HG2	1:m:529:GLU:H	1.66	0.61
1:m:716:ASN:OD1	1:m:717:THR:N	2.27	0.61
1:q:528:LYS:HG2	1:q:529:GLU:H	1.66	0.61
1:t:361:GLU:HG3	1:t:362:GLY:H	1.65	0.61
1:u:471:MET:N	1:v:272:ASN:OD1	2.30	0.61
1:7:716:ASN:OD1	1:7:717:THR:N	2.27	0.61
1:8:361:GLU:HG3	1:8:362:GLY:H	1.65	0.61
1:D:361:GLU:HG3	1:D:362:GLY:H	1.65	0.61
1:E:361:GLU:HG3	1:E:362:GLY:H	1.66	0.61
1:F:358:SER:O	1:Q:442:GLN:NE2	2.32	0.61
1:K:528:LYS:HG2	1:K:529:GLU:H	1.66	0.61
1:O:528:LYS:HG2	1:O:529:GLU:H	1.66	0.61
1:T:361:GLU:HG3	1:T:362:GLY:H	1.65	0.61
1:T:528:LYS:HG2	1:T:529:GLU:H	1.66	0.61
1:W:528:LYS:HG2	1:W:529:GLU:H	1.66	0.61
1:3:272:ASN:OD1	1:j:471:MET:N	2.29	0.61
1:4:716:ASN:OD1	1:4:717:THR:N	2.27	0.61
1:a:361:GLU:HG3	1:a:362:GLY:H	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:361:GLU:HG3	1:h:362:GLY:H	1.65	0.61
1:l:528:LYS:HG2	1:l:529:GLU:H	1.66	0.61
1:y:528:LYS:HG2	1:y:529:GLU:H	1.66	0.61
1:7:361:GLU:HG3	1:7:362:GLY:H	1.65	0.61
1:B:553:VAL:HG13	1:B:557:LYS:HE3	1.83	0.61
1:C:553:VAL:HG13	1:C:557:LYS:HE3	1.83	0.61
1:Q:553:VAL:HG13	1:Q:557:LYS:HE3	1.83	0.61
1:S:528:LYS:HG2	1:S:529:GLU:H	1.66	0.61
1:V:553:VAL:HG13	1:V:557:LYS:HE3	1.83	0.61
1:X:361:GLU:HG3	1:X:362:GLY:H	1.66	0.61
1:2:323:LYS:NZ	1:2:336:ASN:OD1	2.29	0.61
1:g:361:GLU:HG3	1:g:362:GLY:H	1.65	0.61
1:o:361:GLU:HG3	1:o:362:GLY:H	1.65	0.61
1:s:361:GLU:HG3	1:s:362:GLY:H	1.65	0.61
1:x:361:GLU:HG3	1:x:362:GLY:H	1.66	0.61
1:x:716:ASN:OD1	1:x:717:THR:N	2.27	0.61
1:G:528:LYS:HG2	1:G:529:GLU:H	1.65	0.61
1:K:361:GLU:HG3	1:K:362:GLY:H	1.65	0.61
1:L:361:GLU:HG3	1:L:362:GLY:H	1.65	0.61
1:M:553:VAL:HG13	1:M:557:LYS:HE3	1.83	0.61
1:6:358:SER:O	1:a:442:GLN:NE2	2.32	0.61
1:c:553:VAL:HG13	1:c:557:LYS:HE3	1.83	0.61
1:n:716:ASN:OD1	1:n:717:THR:N	2.27	0.61
1:p:553:VAL:HG13	1:p:557:LYS:HE3	1.83	0.61
1:t:553:VAL:HG13	1:t:557:LYS:HE3	1.83	0.61
1:u:553:VAL:HG13	1:u:557:LYS:HE3	1.83	0.61
1:y:361:GLU:HG3	1:y:362:GLY:H	1.65	0.61
1:z:361:GLU:HG3	1:z:362:GLY:H	1.66	0.61
1:N:553:VAL:HG13	1:N:557:LYS:HE3	1.83	0.61
1:U:716:ASN:OD1	1:U:717:THR:N	2.27	0.61
1:1:361:GLU:HG3	1:1:362:GLY:H	1.66	0.61
1:b:528:LYS:HG2	1:b:529:GLU:H	1.66	0.61
1:h:553:VAL:HG13	1:h:557:LYS:HE3	1.83	0.61
1:i:361:GLU:HG3	1:i:362:GLY:H	1.65	0.61
1:r:528:LYS:HG2	1:r:529:GLU:H	1.66	0.61
1:v:323:LYS:NZ	1:v:336:ASN:OD1	2.29	0.61
1:w:553:VAL:HG13	1:w:557:LYS:HE3	1.83	0.61
1:G:517:LEU:HD12	1:G:518:MET:H	1.66	0.61
1:I:361:GLU:HG3	1:I:362:GLY:H	1.66	0.61
1:P:528:LYS:HG2	1:P:529:GLU:H	1.66	0.61
1:T:358:SER:O	1:f:442:GLN:NE2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:553:VAL:HG13	1:2:557:LYS:HE3	1.83	0.61
1:5:309:ARG:NH2	1:5:686:GLU:OE1	2.24	0.61
1:6:553:VAL:HG13	1:6:557:LYS:HE3	1.83	0.61
1:i:553:VAL:HG13	1:i:557:LYS:HE3	1.83	0.61
1:j:517:LEU:HD12	1:j:518:MET:H	1.66	0.61
1:s:526:SER:C	1:s:527:HIS:O	2.14	0.61
1:w:361:GLU:HG3	1:w:362:GLY:H	1.65	0.61
1:y:553:VAL:HG13	1:y:557:LYS:HE3	1.83	0.61
1:7:528:LYS:HG2	1:7:529:GLU:H	1.66	0.61
1:A:361:GLU:HG3	1:A:362:GLY:H	1.65	0.60
1:A:553:VAL:HG13	1:A:557:LYS:HE3	1.83	0.60
1:D:442:GLN:NE2	1:N:358:SER:O	2.32	0.60
1:K:553:VAL:HG13	1:K:557:LYS:HE3	1.83	0.60
1:V:528:LYS:HG2	1:V:529:GLU:H	1.66	0.60
1:Z:517:LEU:HD12	1:Z:518:MET:H	1.66	0.60
1:3:716:ASN:OD1	1:3:717:THR:N	2.27	0.60
1:c:361:GLU:HG3	1:c:362:GLY:H	1.65	0.60
1:p:361:GLU:HG3	1:p:362:GLY:H	1.66	0.60
1:q:553:VAL:HG13	1:q:557:LYS:HE3	1.83	0.60
1:r:517:LEU:HD12	1:r:518:MET:H	1.66	0.60
1:8:528:LYS:HG2	1:8:529:GLU:H	1.66	0.60
1:B:361:GLU:HG3	1:B:362:GLY:H	1.66	0.60
1:D:528:LYS:HG2	1:D:529:GLU:H	1.66	0.60
1:F:361:GLU:HG3	1:F:362:GLY:H	1.65	0.60
1:L:528:LYS:HG2	1:L:529:GLU:H	1.65	0.60
1:R:442:GLN:NE2	1:S:358:SER:O	2.32	0.60
1:U:517:LEU:HD12	1:U:518:MET:H	1.66	0.60
1:Y:517:LEU:HD12	1:Y:518:MET:H	1.66	0.60
1:Z:361:GLU:HG3	1:Z:362:GLY:H	1.66	0.60
1:4:517:LEU:HD12	1:4:518:MET:H	1.66	0.60
1:c:471:MET:N	1:d:272:ASN:OD1	2.29	0.60
1:h:528:LYS:HG2	1:h:529:GLU:H	1.66	0.60
1:j:528:LYS:HG2	1:j:529:GLU:H	1.65	0.60
1:k:528:LYS:HG2	1:k:529:GLU:H	1.66	0.60
1:q:361:GLU:HG3	1:q:362:GLY:H	1.66	0.60
1:v:553:VAL:HG13	1:v:557:LYS:HE3	1.83	0.60
1:I:517:LEU:HD12	1:I:518:MET:H	1.67	0.60
1:M:517:LEU:HD12	1:M:518:MET:H	1.67	0.60
1:N:361:GLU:HG3	1:N:362:GLY:H	1.65	0.60
1:P:553:VAL:HG13	1:P:557:LYS:HE3	1.83	0.60
1:Q:361:GLU:HG3	1:Q:362:GLY:H	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:528:LYS:HG2	1:Z:529:GLU:H	1.65	0.60
1:2:517:LEU:HD12	1:2:518:MET:H	1.66	0.60
1:4:361:GLU:HG3	1:4:362:GLY:H	1.65	0.60
1:5:553:VAL:HG13	1:5:557:LYS:HE3	1.83	0.60
1:6:361:GLU:HG3	1:6:362:GLY:H	1.65	0.60
1:a:528:LYS:HG2	1:a:529:GLU:H	1.66	0.60
1:d:553:VAL:HG13	1:d:557:LYS:HE3	1.83	0.60
1:k:361:GLU:HG3	1:k:362:GLY:H	1.65	0.60
1:m:517:LEU:HD12	1:m:518:MET:H	1.66	0.60
1:o:528:LYS:HG2	1:o:529:GLU:H	1.65	0.60
1:s:517:LEU:HD12	1:s:518:MET:H	1.66	0.60
1:t:517:LEU:HD12	1:t:518:MET:H	1.67	0.60
1:G:361:GLU:HG3	1:G:362:GLY:H	1.65	0.60
1:H:528:LYS:HG2	1:H:529:GLU:H	1.66	0.60
1:H:553:VAL:HG13	1:H:557:LYS:HE3	1.83	0.60
1:J:553:VAL:HG13	1:J:557:LYS:HE3	1.83	0.60
1:T:517:LEU:HD12	1:T:518:MET:H	1.67	0.60
1:Z:553:VAL:HG13	1:Z:557:LYS:HE3	1.83	0.60
1:b:553:VAL:HG13	1:b:557:LYS:HE3	1.83	0.60
1:e:528:LYS:HG2	1:e:529:GLU:H	1.65	0.60
1:j:361:GLU:HG3	1:j:362:GLY:H	1.66	0.60
1:r:361:GLU:HG3	1:r:362:GLY:H	1.65	0.60
1:s:528:LYS:HG2	1:s:529:GLU:H	1.66	0.60
1:v:517:LEU:HD12	1:v:518:MET:H	1.66	0.60
1:A:517:LEU:HD12	1:A:518:MET:H	1.66	0.60
1:F:553:VAL:HG13	1:F:557:LYS:HE3	1.83	0.60
1:H:361:GLU:HG3	1:H:362:GLY:H	1.65	0.60
1:O:553:VAL:HG13	1:O:557:LYS:HE3	1.83	0.60
1:P:517:LEU:HD12	1:P:518:MET:H	1.66	0.60
1:S:517:LEU:HD12	1:S:518:MET:H	1.67	0.60
1:S:553:VAL:HG13	1:S:557:LYS:HE3	1.83	0.60
1:T:553:VAL:HG13	1:T:557:LYS:HE3	1.83	0.60
1:U:361:GLU:HG3	1:U:362:GLY:H	1.65	0.60
1:1:528:LYS:HG2	1:1:529:GLU:H	1.65	0.60
1:3:528:LYS:HG2	1:3:529:GLU:H	1.65	0.60
1:d:361:GLU:HG3	1:d:362:GLY:H	1.66	0.60
1:g:306:TRP:HZ2	1:g:692:SER:HB2	1.67	0.60
1:j:553:VAL:HG13	1:j:557:LYS:HE3	1.83	0.60
1:n:553:VAL:HG13	1:n:557:LYS:HE3	1.83	0.60
1:o:306:TRP:HZ2	1:o:692:SER:HB2	1.67	0.60
1:u:517:LEU:HD12	1:u:518:MET:H	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:528:LYS:HG2	1:v:529:GLU:H	1.66	0.60
1:w:517:LEU:HD12	1:w:518:MET:H	1.66	0.60
1:B:306:TRP:HZ2	1:B:692:SER:HB2	1.67	0.60
1:C:517:LEU:HD12	1:C:518:MET:H	1.66	0.60
1:D:286:PHE:HB3	1:D:364:LEU:HD13	1.84	0.60
1:E:528:LYS:HG2	1:E:529:GLU:H	1.65	0.60
1:F:272:ASN:OD1	1:Q:471:MET:N	2.29	0.60
1:G:323:LYS:NZ	1:G:336:ASN:OD1	2.29	0.60
1:I:306:TRP:HZ2	1:I:692:SER:HB2	1.67	0.60
1:I:528:LYS:HG2	1:I:529:GLU:H	1.66	0.60
1:J:517:LEU:HD12	1:J:518:MET:H	1.66	0.60
1:L:306:TRP:HZ2	1:L:692:SER:HB2	1.67	0.60
1:O:309:ARG:NH2	1:O:686:GLU:OE1	2.24	0.60
1:X:306:TRP:HZ2	1:X:692:SER:HB2	1.67	0.60
1:2:528:LYS:HG2	1:2:529:GLU:H	1.65	0.60
1:a:286:PHE:HB3	1:a:364:LEU:HD13	1.84	0.60
1:b:517:LEU:HD12	1:b:518:MET:H	1.66	0.60
1:i:517:LEU:HD12	1:i:518:MET:H	1.66	0.60
1:k:553:VAL:HG13	1:k:557:LYS:HE3	1.83	0.60
1:m:306:TRP:HZ2	1:m:692:SER:HB2	1.67	0.60
1:p:306:TRP:HZ2	1:p:692:SER:HB2	1.67	0.60
1:s:306:TRP:HZ2	1:s:692:SER:HB2	1.67	0.60
1:x:528:LYS:HG2	1:x:529:GLU:H	1.65	0.60
1:z:528:LYS:HG2	1:z:529:GLU:H	1.65	0.60
1:7:306:TRP:HZ2	1:7:692:SER:HB2	1.67	0.60
1:8:306:TRP:HZ2	1:8:692:SER:HB2	1.67	0.60
1:B:517:LEU:HD12	1:B:518:MET:H	1.66	0.60
1:D:306:TRP:HZ2	1:D:692:SER:HB2	1.67	0.60
1:E:517:LEU:HD12	1:E:518:MET:H	1.66	0.60
1:H:286:PHE:HB3	1:H:364:LEU:HD13	1.84	0.60
1:J:528:LYS:HG2	1:J:529:GLU:H	1.65	0.60
1:L:553:VAL:HG13	1:L:557:LYS:HE3	1.83	0.60
1:R:553:VAL:HG13	1:R:557:LYS:HE3	1.83	0.60
1:Y:306:TRP:HZ2	1:Y:692:SER:HB2	1.67	0.60
1:g:528:LYS:HG2	1:g:529:GLU:H	1.65	0.60
1:k:286:PHE:HB3	1:k:364:LEU:HD13	1.84	0.60
1:o:553:VAL:HG13	1:o:557:LYS:HE3	1.83	0.60
1:q:517:LEU:HD12	1:q:518:MET:H	1.66	0.60
1:w:306:TRP:HZ2	1:w:692:SER:HB2	1.67	0.60
1:B:528:LYS:HG2	1:B:529:GLU:H	1.66	0.60
1:E:286:PHE:HB3	1:E:364:LEU:HD13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:286:PHE:HB3	1:T:364:LEU:HD13	1.84	0.60
1:X:286:PHE:HB3	1:X:364:LEU:HD13	1.84	0.60
1:1:517:LEU:HD12	1:1:518:MET:H	1.66	0.60
1:4:286:PHE:HB3	1:4:364:LEU:HD13	1.84	0.60
1:5:361:GLU:HG3	1:5:362:GLY:H	1.65	0.60
1:a:306:TRP:HZ2	1:a:692:SER:HB2	1.67	0.60
1:e:517:LEU:HD12	1:e:518:MET:H	1.66	0.60
1:f:553:VAL:HG13	1:f:557:LYS:HE3	1.83	0.60
1:i:306:TRP:HZ2	1:i:692:SER:HB2	1.67	0.60
1:n:517:LEU:HD12	1:n:518:MET:H	1.66	0.60
1:p:517:LEU:HD12	1:p:518:MET:H	1.66	0.60
1:u:323:LYS:NZ	1:u:336:ASN:OD1	2.29	0.60
1:x:553:VAL:HG13	1:x:557:LYS:HE3	1.83	0.60
1:G:306:TRP:HZ2	1:G:692:SER:HB2	1.67	0.60
1:K:517:LEU:HD12	1:K:518:MET:H	1.66	0.60
1:S:286:PHE:HB3	1:S:364:LEU:HD13	1.84	0.60
1:U:286:PHE:HB3	1:U:364:LEU:HD13	1.84	0.60
1:W:517:LEU:HD12	1:W:518:MET:H	1.66	0.60
1:X:528:LYS:HG2	1:X:529:GLU:H	1.66	0.60
1:1:553:VAL:HG13	1:1:557:LYS:HE3	1.83	0.60
1:e:286:PHE:HB3	1:e:364:LEU:HD13	1.84	0.60
1:g:286:PHE:HB3	1:g:364:LEU:HD13	1.84	0.60
1:h:517:LEU:HD12	1:h:518:MET:H	1.66	0.60
1:n:528:LYS:HG2	1:n:529:GLU:H	1.66	0.60
1:p:528:LYS:HG2	1:p:529:GLU:H	1.66	0.60
1:r:306:TRP:HZ2	1:r:692:SER:HB2	1.67	0.60
1:z:517:LEU:HD12	1:z:518:MET:H	1.66	0.60
1:z:553:VAL:HG13	1:z:557:LYS:HE3	1.83	0.60
1:7:517:LEU:HD12	1:7:518:MET:H	1.67	0.60
1:8:517:LEU:HD12	1:8:518:MET:H	1.67	0.60
1:C:323:LYS:NZ	1:C:336:ASN:OD1	2.29	0.60
1:I:553:VAL:HG13	1:I:557:LYS:HE3	1.83	0.60
1:I:716:ASN:OD1	1:I:717:THR:N	2.27	0.60
1:O:361:GLU:HG3	1:O:362:GLY:H	1.65	0.60
1:V:517:LEU:HD12	1:V:518:MET:H	1.66	0.60
1:X:553:VAL:HG13	1:X:557:LYS:HE3	1.83	0.60
1:3:553:VAL:HG13	1:3:557:LYS:HE3	1.83	0.60
1:6:517:LEU:HD12	1:6:518:MET:H	1.66	0.60
1:6:716:ASN:OD1	1:6:717:THR:N	2.27	0.60
1:n:286:PHE:HB3	1:n:364:LEU:HD13	1.84	0.60
1:r:323:LYS:NZ	1:r:336:ASN:OD1	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:286:PHE:HB3	1:A:364:LEU:HD13	1.84	0.59
1:D:415:TYR:OH	1:D:642:HIS:O	2.20	0.59
1:E:306:TRP:HZ2	1:E:692:SER:HB2	1.67	0.59
1:E:415:TYR:OH	1:E:642:HIS:O	2.20	0.59
1:G:553:VAL:HG13	1:G:557:LYS:HE3	1.83	0.59
1:J:286:PHE:HB3	1:J:364:LEU:HD13	1.84	0.59
1:N:286:PHE:HB3	1:N:364:LEU:HD13	1.84	0.59
1:N:716:ASN:OD1	1:N:717:THR:N	2.27	0.59
1:Q:286:PHE:HB3	1:Q:364:LEU:HD13	1.84	0.59
1:R:517:LEU:HD12	1:R:518:MET:H	1.66	0.59
1:S:415:TYR:OH	1:S:642:HIS:O	2.20	0.59
1:U:415:TYR:OH	1:U:642:HIS:O	2.20	0.59
1:Z:306:TRP:HZ2	1:Z:692:SER:HB2	1.67	0.59
1:4:415:TYR:OH	1:4:642:HIS:O	2.20	0.59
1:6:286:PHE:HB3	1:6:364:LEU:HD13	1.84	0.59
1:d:306:TRP:HZ2	1:d:692:SER:HB2	1.67	0.59
1:e:415:TYR:OH	1:e:642:HIS:O	2.20	0.59
1:x:286:PHE:HB3	1:x:364:LEU:HD13	1.84	0.59
1:y:517:LEU:HD12	1:y:518:MET:H	1.66	0.59
1:7:553:VAL:HG13	1:7:557:LYS:HE3	1.83	0.59
1:D:553:VAL:HG13	1:D:557:LYS:HE3	1.83	0.59
1:E:262:ASN:OD1	1:E:263:SER:N	2.36	0.59
1:F:306:TRP:HZ2	1:F:692:SER:HB2	1.67	0.59
1:L:262:ASN:OD1	1:L:263:SER:N	2.36	0.59
1:N:517:LEU:HD12	1:N:518:MET:H	1.66	0.59
1:Q:415:TYR:OH	1:Q:642:HIS:O	2.20	0.59
1:T:415:TYR:OH	1:T:642:HIS:O	2.20	0.59
1:U:553:VAL:HG13	1:U:557:LYS:HE3	1.83	0.59
1:W:415:TYR:OH	1:W:642:HIS:O	2.21	0.59
1:3:286:PHE:HB3	1:3:364:LEU:HD13	1.84	0.59
1:a:415:TYR:OH	1:a:642:HIS:O	2.20	0.59
1:a:553:VAL:HG13	1:a:557:LYS:HE3	1.83	0.59
1:c:286:PHE:HB3	1:c:364:LEU:HD13	1.84	0.59
1:c:415:TYR:OH	1:c:642:HIS:O	2.20	0.59
1:d:262:ASN:OD1	1:d:263:SER:N	2.36	0.59
1:d:517:LEU:HD12	1:d:518:MET:H	1.66	0.59
1:e:262:ASN:OD1	1:e:263:SER:N	2.36	0.59
1:e:306:TRP:HZ2	1:e:692:SER:HB2	1.67	0.59
1:f:517:LEU:HD12	1:f:518:MET:H	1.66	0.59
1:g:553:VAL:HG13	1:g:557:LYS:HE3	1.83	0.59
1:h:286:PHE:HB3	1:h:364:LEU:HD13	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:306:TRP:HZ2	1:j:692:SER:HB2	1.67	0.59
1:l:415:TYR:OH	1:l:642:HIS:O	2.21	0.59
1:l:517:LEU:HD12	1:l:518:MET:H	1.66	0.59
1:o:262:ASN:OD1	1:o:263:SER:N	2.36	0.59
1:q:286:PHE:HB3	1:q:364:LEU:HD13	1.84	0.59
1:q:306:TRP:HZ2	1:q:692:SER:HB2	1.67	0.59
1:s:553:VAL:HG13	1:s:557:LYS:HE3	1.83	0.59
1:A:306:TRP:HZ2	1:A:692:SER:HB2	1.67	0.59
1:F:262:ASN:OD1	1:F:263:SER:N	2.36	0.59
1:F:528:LYS:HG2	1:F:529:GLU:H	1.65	0.59
1:I:415:TYR:OH	1:I:642:HIS:O	2.20	0.59
1:K:262:ASN:OD1	1:K:263:SER:N	2.36	0.59
1:Q:306:TRP:HZ2	1:Q:692:SER:HB2	1.67	0.59
1:S:262:ASN:OD1	1:S:263:SER:N	2.36	0.59
1:T:262:ASN:OD1	1:T:263:SER:N	2.36	0.59
1:V:286:PHE:HB3	1:V:364:LEU:HD13	1.84	0.59
1:Y:415:TYR:OH	1:Y:642:HIS:O	2.20	0.59
1:2:415:TYR:OH	1:2:642:HIS:O	2.21	0.59
1:3:262:ASN:OD1	1:3:263:SER:N	2.36	0.59
1:4:262:ASN:OD1	1:4:263:SER:N	2.36	0.59
1:4:553:VAL:HG13	1:4:557:LYS:HE3	1.83	0.59
1:c:517:LEU:HD12	1:c:518:MET:H	1.66	0.59
1:m:415:TYR:OH	1:m:642:HIS:O	2.20	0.59
1:r:553:VAL:HG13	1:r:557:LYS:HE3	1.83	0.59
1:v:415:TYR:OH	1:v:642:HIS:O	2.20	0.59
1:x:262:ASN:OD1	1:x:263:SER:N	2.36	0.59
1:y:262:ASN:OD1	1:y:263:SER:N	2.36	0.59
1:F:517:LEU:HD12	1:F:518:MET:H	1.66	0.59
1:I:323:LYS:NZ	1:I:336:ASN:OD1	2.29	0.59
1:J:262:ASN:OD1	1:J:263:SER:N	2.36	0.59
1:M:306:TRP:HZ2	1:M:692:SER:HB2	1.67	0.59
1:Q:517:LEU:HD12	1:Q:518:MET:H	1.66	0.59
1:U:262:ASN:OD1	1:U:263:SER:N	2.36	0.59
1:3:517:LEU:HD12	1:3:518:MET:H	1.66	0.59
1:4:306:TRP:HZ2	1:4:692:SER:HB2	1.67	0.59
1:a:517:LEU:HD12	1:a:518:MET:H	1.67	0.59
1:c:306:TRP:HZ2	1:c:692:SER:HB2	1.67	0.59
1:d:528:LYS:HG2	1:d:529:GLU:H	1.65	0.59
1:i:286:PHE:HB3	1:i:364:LEU:HD13	1.84	0.59
1:l:262:ASN:OD1	1:l:263:SER:N	2.36	0.59
1:n:262:ASN:OD1	1:n:263:SER:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:306:TRP:HZ2	1:x:692:SER:HB2	1.67	0.59
1:7:286:PHE:HB3	1:7:364:LEU:HD13	1.84	0.59
1:8:553:VAL:HG13	1:8:557:LYS:HE3	1.83	0.59
1:G:286:PHE:HB3	1:G:364:LEU:HD13	1.84	0.59
1:M:415:TYR:OH	1:M:642:HIS:O	2.20	0.59
1:O:286:PHE:HB3	1:O:364:LEU:HD13	1.84	0.59
1:U:306:TRP:HZ2	1:U:692:SER:HB2	1.67	0.59
1:W:262:ASN:OD1	1:W:263:SER:N	2.36	0.59
1:Y:553:VAL:HG13	1:Y:557:LYS:HE3	1.83	0.59
1:1:286:PHE:HB3	1:1:364:LEU:HD13	1.84	0.59
1:3:306:TRP:HZ2	1:3:692:SER:HB2	1.67	0.59
1:5:286:PHE:HB3	1:5:364:LEU:HD13	1.84	0.59
1:h:262:ASN:OD1	1:h:263:SER:N	2.36	0.59
1:k:306:TRP:HZ2	1:k:692:SER:HB2	1.67	0.59
1:r:286:PHE:HB3	1:r:364:LEU:HD13	1.84	0.59
1:r:524:MET:SD	1:r:573:ALA:HA	2.43	0.59
1:s:415:TYR:OH	1:s:642:HIS:O	2.21	0.59
1:s:716:ASN:OD1	1:s:717:THR:N	2.27	0.59
1:t:415:TYR:OH	1:t:642:HIS:O	2.20	0.59
1:w:286:PHE:HB3	1:w:364:LEU:HD13	1.84	0.59
1:x:517:LEU:HD12	1:x:518:MET:H	1.66	0.59
1:8:286:PHE:HB3	1:8:364:LEU:HD13	1.84	0.59
1:D:517:LEU:HD12	1:D:518:MET:H	1.67	0.59
1:F:415:TYR:OH	1:F:642:HIS:O	2.20	0.59
1:G:262:ASN:OD1	1:G:263:SER:N	2.36	0.59
1:G:524:MET:SD	1:G:573:ALA:HA	2.43	0.59
1:H:306:TRP:HZ2	1:H:692:SER:HB2	1.67	0.59
1:H:517:LEU:HD12	1:H:518:MET:H	1.66	0.59
1:K:415:TYR:OH	1:K:642:HIS:O	2.20	0.59
1:N:524:MET:SD	1:N:573:ALA:HA	2.43	0.59
1:U:528:LYS:HG2	1:U:529:GLU:H	1.66	0.59
1:V:262:ASN:OD1	1:V:263:SER:N	2.36	0.59
1:V:415:TYR:OH	1:V:642:HIS:O	2.20	0.59
1:W:306:TRP:HZ2	1:W:692:SER:HB2	1.67	0.59
1:d:524:MET:SD	1:d:573:ALA:HA	2.43	0.59
1:h:306:TRP:HZ2	1:h:692:SER:HB2	1.67	0.59
1:h:415:TYR:OH	1:h:642:HIS:O	2.21	0.59
1:l:306:TRP:HZ2	1:l:692:SER:HB2	1.67	0.59
1:m:553:VAL:HG13	1:m:557:LYS:HE3	1.83	0.59
1:r:262:ASN:OD1	1:r:263:SER:N	2.36	0.59
1:y:415:TYR:OH	1:y:642:HIS:O	2.20	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:286:PHE:HB3	1:z:364:LEU:HD13	1.84	0.59
1:F:524:MET:SD	1:F:573:ALA:HA	2.43	0.59
1:L:524:MET:SD	1:L:573:ALA:HA	2.43	0.59
1:M:524:MET:SD	1:M:573:ALA:HA	2.43	0.59
1:O:262:ASN:OD1	1:O:263:SER:N	2.36	0.59
1:O:517:LEU:HD12	1:O:518:MET:H	1.66	0.59
1:R:528:LYS:HG2	1:R:529:GLU:H	1.65	0.59
1:U:309:ARG:NH2	1:U:686:GLU:OE1	2.24	0.59
1:V:306:TRP:HZ2	1:V:692:SER:HB2	1.67	0.59
1:X:524:MET:SD	1:X:573:ALA:HA	2.43	0.59
1:4:309:ARG:NH2	1:4:686:GLU:OE1	2.24	0.59
1:5:262:ASN:OD1	1:5:263:SER:N	2.36	0.59
1:6:262:ASN:OD1	1:6:263:SER:N	2.36	0.59
1:c:262:ASN:OD1	1:c:263:SER:N	2.36	0.59
1:d:415:TYR:OH	1:d:642:HIS:O	2.20	0.59
1:g:517:LEU:HD12	1:g:518:MET:H	1.66	0.59
1:o:524:MET:SD	1:o:573:ALA:HA	2.43	0.59
1:t:306:TRP:HZ2	1:t:692:SER:HB2	1.67	0.59
1:t:524:MET:SD	1:t:573:ALA:HA	2.43	0.59
1:M:286:PHE:HB3	1:M:364:LEU:HD13	1.84	0.59
1:N:262:ASN:OD1	1:N:263:SER:N	2.36	0.59
1:Q:262:ASN:OD1	1:Q:263:SER:N	2.36	0.59
1:X:517:LEU:HD12	1:X:518:MET:H	1.66	0.59
1:4:528:LYS:HG2	1:4:529:GLU:H	1.66	0.59
1:5:517:LEU:HD12	1:5:518:MET:H	1.66	0.59
1:6:415:TYR:OH	1:6:642:HIS:O	2.20	0.59
1:6:524:MET:SD	1:6:573:ALA:HA	2.43	0.59
1:g:524:MET:SD	1:g:573:ALA:HA	2.43	0.59
1:k:517:LEU:HD12	1:k:518:MET:H	1.66	0.59
1:l:524:MET:SD	1:l:573:ALA:HA	2.43	0.59
1:q:262:ASN:OD1	1:q:263:SER:N	2.36	0.59
1:t:286:PHE:HB3	1:t:364:LEU:HD13	1.84	0.59
1:u:306:TRP:HZ2	1:u:692:SER:HB2	1.67	0.59
1:w:262:ASN:OD1	1:w:263:SER:N	2.36	0.59
1:x:415:TYR:OH	1:x:642:HIS:O	2.20	0.59
1:z:262:ASN:OD1	1:z:263:SER:N	2.36	0.59
1:A:262:ASN:OD1	1:A:263:SER:N	2.36	0.59
1:A:415:TYR:OH	1:A:642:HIS:O	2.20	0.59
1:B:286:PHE:HB3	1:B:364:LEU:HD13	1.84	0.59
1:B:524:MET:SD	1:B:573:ALA:HA	2.43	0.59
1:C:306:TRP:HZ2	1:C:692:SER:HB2	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:262:ASN:OD1	1:H:263:SER:N	2.36	0.59
1:I:524:MET:SD	1:I:573:ALA:HA	2.43	0.59
1:M:528:LYS:HG2	1:M:529:GLU:H	1.66	0.59
1:N:415:TYR:OH	1:N:642:HIS:O	2.21	0.59
1:W:524:MET:SD	1:W:573:ALA:HA	2.43	0.59
1:1:262:ASN:OD1	1:1:263:SER:N	2.36	0.59
1:3:415:TYR:OH	1:3:642:HIS:O	2.20	0.59
1:f:306:TRP:HZ2	1:f:692:SER:HB2	1.67	0.59
1:f:415:TYR:OH	1:f:642:HIS:O	2.20	0.59
1:f:528:LYS:HG2	1:f:529:GLU:H	1.65	0.59
1:i:262:ASN:OD1	1:i:263:SER:N	2.36	0.59
1:p:524:MET:SD	1:p:573:ALA:HA	2.43	0.59
1:q:415:TYR:OH	1:q:642:HIS:O	2.20	0.59
1:C:524:MET:SD	1:C:573:ALA:HA	2.43	0.59
1:F:716:ASN:OD1	1:F:717:THR:N	2.27	0.59
1:R:415:TYR:OH	1:R:642:HIS:O	2.20	0.59
1:U:524:MET:SD	1:U:573:ALA:HA	2.43	0.59
1:4:524:MET:SD	1:4:573:ALA:HA	2.43	0.59
1:k:262:ASN:OD1	1:k:263:SER:N	2.36	0.59
1:n:306:TRP:HZ2	1:n:692:SER:HB2	1.67	0.59
1:o:517:LEU:HD12	1:o:518:MET:H	1.66	0.59
1:o:525:ALA:O	1:o:573:ALA:N	2.34	0.59
1:p:286:PHE:HB3	1:p:364:LEU:HD13	1.84	0.59
1:t:262:ASN:OD1	1:t:263:SER:N	2.36	0.59
1:u:524:MET:SD	1:u:573:ALA:HA	2.43	0.59
1:8:524:MET:SD	1:8:573:ALA:HA	2.43	0.59
1:C:262:ASN:OD1	1:C:263:SER:N	2.36	0.58
1:J:306:TRP:HZ2	1:J:692:SER:HB2	1.67	0.58
1:K:524:MET:SD	1:K:573:ALA:HA	2.43	0.58
1:M:262:ASN:OD1	1:M:263:SER:N	2.36	0.58
1:R:306:TRP:HZ2	1:R:692:SER:HB2	1.67	0.58
1:V:524:MET:SD	1:V:573:ALA:HA	2.43	0.58
1:3:525:ALA:O	1:3:573:ALA:N	2.34	0.58
1:b:306:TRP:HZ2	1:b:692:SER:HB2	1.67	0.58
1:h:524:MET:SD	1:h:573:ALA:HA	2.43	0.58
1:j:262:ASN:OD1	1:j:263:SER:N	2.36	0.58
1:m:262:ASN:OD1	1:m:263:SER:N	2.36	0.58
1:o:286:PHE:HB3	1:o:364:LEU:HD13	1.84	0.58
1:s:524:MET:SD	1:s:573:ALA:HA	2.43	0.58
1:t:528:LYS:HG2	1:t:529:GLU:H	1.66	0.58
1:v:490:SER:HA	1:v:534:PHE:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:524:MET:SD	1:w:573:ALA:HA	2.43	0.58
1:y:286:PHE:HB3	1:y:364:LEU:HD13	1.84	0.58
1:y:524:MET:SD	1:y:573:ALA:HA	2.43	0.58
1:7:262:ASN:OD1	1:7:263:SER:N	2.36	0.58
1:8:262:ASN:OD1	1:8:263:SER:N	2.36	0.58
1:A:524:MET:SD	1:A:573:ALA:HA	2.43	0.58
1:D:524:MET:SD	1:D:573:ALA:HA	2.43	0.58
1:E:490:SER:HA	1:E:534:PHE:HA	1.86	0.58
1:E:553:VAL:HG13	1:E:557:LYS:HE3	1.83	0.58
1:G:415:TYR:OH	1:G:642:HIS:O	2.20	0.58
1:K:286:PHE:HB3	1:K:364:LEU:HD13	1.84	0.58
1:L:286:PHE:HB3	1:L:364:LEU:HD13	1.84	0.58
1:P:306:TRP:HZ2	1:P:692:SER:HB2	1.67	0.58
1:R:286:PHE:HB3	1:R:364:LEU:HD13	1.84	0.58
1:R:524:MET:SD	1:R:573:ALA:HA	2.43	0.58
1:U:490:SER:HA	1:U:534:PHE:HA	1.85	0.58
1:W:286:PHE:HB3	1:W:364:LEU:HD13	1.84	0.58
1:Y:262:ASN:OD1	1:Y:263:SER:N	2.36	0.58
1:Z:262:ASN:OD1	1:Z:263:SER:N	2.36	0.58
1:1:306:TRP:HZ2	1:1:692:SER:HB2	1.67	0.58
1:1:524:MET:SD	1:1:573:ALA:HA	2.43	0.58
1:4:490:SER:HA	1:4:534:PHE:HA	1.85	0.58
1:a:524:MET:SD	1:a:573:ALA:HA	2.43	0.58
1:i:524:MET:SD	1:i:573:ALA:HA	2.43	0.58
1:l:553:VAL:HG13	1:l:557:LYS:HE3	1.83	0.58
1:n:524:MET:SD	1:n:573:ALA:HA	2.43	0.58
1:p:262:ASN:OD1	1:p:263:SER:N	2.36	0.58
1:q:524:MET:SD	1:q:573:ALA:HA	2.43	0.58
1:u:262:ASN:OD1	1:u:263:SER:N	2.36	0.58
1:v:306:TRP:HZ2	1:v:692:SER:HB2	1.67	0.58
1:x:525:ALA:O	1:x:573:ALA:N	2.34	0.58
1:y:490:SER:HA	1:y:534:PHE:HA	1.85	0.58
1:z:306:TRP:HZ2	1:z:692:SER:HB2	1.67	0.58
1:8:490:SER:HA	1:8:534:PHE:HA	1.86	0.58
1:B:262:ASN:OD1	1:B:263:SER:N	2.36	0.58
1:F:286:PHE:HB3	1:F:364:LEU:HD13	1.84	0.58
1:F:490:SER:HA	1:F:534:PHE:HA	1.86	0.58
1:J:524:MET:SD	1:J:573:ALA:HA	2.43	0.58
1:K:490:SER:HA	1:K:534:PHE:HA	1.85	0.58
1:L:517:LEU:HD12	1:L:518:MET:H	1.66	0.58
1:S:716:ASN:OD1	1:S:717:THR:N	2.27	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:716:ASN:OD1	1:T:717:THR:N	2.27	0.58
1:V:716:ASN:OD1	1:V:717:THR:N	2.27	0.58
1:X:490:SER:HA	1:X:534:PHE:HA	1.86	0.58
1:2:262:ASN:OD1	1:2:263:SER:N	2.36	0.58
1:2:490:SER:HA	1:2:534:PHE:HA	1.86	0.58
1:d:716:ASN:OD1	1:d:717:THR:N	2.27	0.58
1:e:553:VAL:HG13	1:e:557:LYS:HE3	1.83	0.58
1:f:262:ASN:OD1	1:f:263:SER:N	2.36	0.58
1:f:524:MET:SD	1:f:573:ALA:HA	2.43	0.58
1:g:490:SER:HA	1:g:534:PHE:HA	1.86	0.58
1:l:286:PHE:HB3	1:l:364:LEU:HD13	1.84	0.58
1:u:286:PHE:HB3	1:u:364:LEU:HD13	1.84	0.58
1:u:415:TYR:OH	1:u:642:HIS:O	2.20	0.58
1:v:262:ASN:OD1	1:v:263:SER:N	2.36	0.58
1:y:716:ASN:OD1	1:y:717:THR:N	2.27	0.58
1:z:524:MET:SD	1:z:573:ALA:HA	2.43	0.58
1:7:415:TYR:OH	1:7:642:HIS:O	2.20	0.58
1:7:490:SER:HA	1:7:534:PHE:HA	1.86	0.58
1:7:524:MET:SD	1:7:573:ALA:HA	2.43	0.58
1:H:490:SER:HA	1:H:534:PHE:HA	1.86	0.58
1:J:415:TYR:OH	1:J:642:HIS:O	2.21	0.58
1:R:262:ASN:OD1	1:R:263:SER:N	2.36	0.58
1:S:306:TRP:HZ2	1:S:692:SER:HB2	1.67	0.58
1:W:490:SER:HA	1:W:534:PHE:HA	1.86	0.58
1:W:553:VAL:HG13	1:W:557:LYS:HE3	1.83	0.58
1:1:415:TYR:OH	1:1:642:HIS:O	2.20	0.58
1:3:524:MET:SD	1:3:573:ALA:HA	2.43	0.58
1:b:524:MET:SD	1:b:573:ALA:HA	2.43	0.58
1:c:524:MET:SD	1:c:573:ALA:HA	2.43	0.58
1:d:490:SER:HA	1:d:534:PHE:HA	1.86	0.58
1:e:490:SER:HA	1:e:534:PHE:HA	1.86	0.58
1:k:490:SER:HA	1:k:534:PHE:HA	1.86	0.58
1:l:490:SER:HA	1:l:534:PHE:HA	1.86	0.58
1:n:415:TYR:OH	1:n:642:HIS:O	2.20	0.58
1:s:262:ASN:OD1	1:s:263:SER:N	2.36	0.58
1:z:415:TYR:OH	1:z:642:HIS:O	2.20	0.58
1:C:415:TYR:OH	1:C:642:HIS:O	2.20	0.58
1:I:262:ASN:OD1	1:I:263:SER:N	2.36	0.58
1:M:490:SER:HA	1:M:534:PHE:HA	1.86	0.58
1:P:415:TYR:OH	1:P:642:HIS:O	2.20	0.58
1:Q:524:MET:SD	1:Q:573:ALA:HA	2.43	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:306:TRP:HZ2	1:T:692:SER:HB2	1.67	0.58
1:Y:286:PHE:HB3	1:Y:364:LEU:HD13	1.84	0.58
1:2:306:TRP:HZ2	1:2:692:SER:HB2	1.67	0.58
1:c:490:SER:HA	1:c:534:PHE:HA	1.86	0.58
1:d:286:PHE:HB3	1:d:364:LEU:HD13	1.84	0.58
1:f:286:PHE:HB3	1:f:364:LEU:HD13	1.84	0.58
1:j:525:ALA:O	1:j:573:ALA:N	2.34	0.58
1:r:415:TYR:OH	1:r:642:HIS:O	2.21	0.58
1:t:490:SER:HA	1:t:534:PHE:HA	1.86	0.58
1:x:524:MET:SD	1:x:573:ALA:HA	2.43	0.58
1:8:415:TYR:OH	1:8:642:HIS:O	2.20	0.58
1:C:286:PHE:HB3	1:C:364:LEU:HD13	1.84	0.58
1:E:524:MET:SD	1:E:573:ALA:HA	2.43	0.58
1:K:306:TRP:HZ2	1:K:692:SER:HB2	1.67	0.58
1:O:524:MET:SD	1:O:573:ALA:HA	2.43	0.58
1:P:286:PHE:HB3	1:P:364:LEU:HD13	1.84	0.58
1:Q:490:SER:HA	1:Q:534:PHE:HA	1.86	0.58
1:S:524:MET:SD	1:S:573:ALA:HA	2.43	0.58
1:T:524:MET:SD	1:T:573:ALA:HA	2.43	0.58
1:X:415:TYR:OH	1:X:642:HIS:O	2.20	0.58
1:Z:286:PHE:HB3	1:Z:364:LEU:HD13	1.84	0.58
1:b:286:PHE:HB3	1:b:364:LEU:HD13	1.84	0.58
1:b:415:TYR:OH	1:b:642:HIS:O	2.20	0.58
1:h:716:ASN:OD1	1:h:717:THR:N	2.27	0.58
1:j:286:PHE:HB3	1:j:364:LEU:HD13	1.84	0.58
1:m:286:PHE:HB3	1:m:364:LEU:HD13	1.84	0.58
1:s:286:PHE:HB3	1:s:364:LEU:HD13	1.84	0.58
1:v:524:MET:SD	1:v:573:ALA:HA	2.43	0.58
1:K:716:ASN:OD1	1:K:717:THR:N	2.27	0.58
1:P:524:MET:SD	1:P:573:ALA:HA	2.43	0.58
1:Z:415:TYR:OH	1:Z:642:HIS:O	2.20	0.58
1:Z:525:ALA:O	1:Z:573:ALA:N	2.34	0.58
1:2:524:MET:SD	1:2:573:ALA:HA	2.43	0.58
1:5:524:MET:SD	1:5:573:ALA:HA	2.43	0.58
1:6:490:SER:HA	1:6:534:PHE:HA	1.86	0.58
1:e:524:MET:SD	1:e:573:ALA:HA	2.43	0.58
1:g:415:TYR:OH	1:g:642:HIS:O	2.20	0.58
1:h:490:SER:HA	1:h:534:PHE:HA	1.86	0.58
1:i:415:TYR:OH	1:i:642:HIS:O	2.20	0.58
1:j:415:TYR:OH	1:j:642:HIS:O	2.20	0.58
1:k:524:MET:SD	1:k:573:ALA:HA	2.43	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:306:TRP:HZ2	1:y:692:SER:HB2	1.67	0.58
1:H:524:MET:SD	1:H:573:ALA:HA	2.43	0.58
1:I:286:PHE:HB3	1:I:364:LEU:HD13	1.84	0.58
1:N:490:SER:HA	1:N:534:PHE:HA	1.86	0.58
1:O:415:TYR:OH	1:O:642:HIS:O	2.21	0.58
1:V:490:SER:HA	1:V:534:PHE:HA	1.86	0.58
1:5:415:TYR:OH	1:5:642:HIS:O	2.20	0.58
1:6:306:TRP:HZ2	1:6:692:SER:HB2	1.67	0.58
1:g:262:ASN:OD1	1:g:263:SER:N	2.36	0.58
1:p:415:TYR:OH	1:p:642:HIS:O	2.20	0.58
1:q:490:SER:HA	1:q:534:PHE:HA	1.85	0.58
1:v:286:PHE:HB3	1:v:364:LEU:HD13	1.84	0.58
1:w:415:TYR:OH	1:w:642:HIS:O	2.20	0.58
1:B:415:TYR:OH	1:B:642:HIS:O	2.20	0.58
1:D:262:ASN:OD1	1:D:263:SER:N	2.36	0.58
1:N:306:TRP:HZ2	1:N:692:SER:HB2	1.67	0.58
1:X:262:ASN:OD1	1:X:263:SER:N	2.36	0.58
1:2:286:PHE:HB3	1:2:364:LEU:HD13	1.84	0.58
1:5:306:TRP:HZ2	1:5:692:SER:HB2	1.67	0.58
1:a:262:ASN:OD1	1:a:263:SER:N	2.36	0.58
1:b:262:ASN:OD1	1:b:263:SER:N	2.36	0.58
1:A:490:SER:HA	1:A:534:PHE:HA	1.86	0.58
1:P:262:ASN:OD1	1:P:263:SER:N	2.36	0.58
1:S:490:SER:HA	1:S:534:PHE:HA	1.86	0.58
1:T:490:SER:HA	1:T:534:PHE:HA	1.86	0.58
1:Y:524:MET:SD	1:Y:573:ALA:HA	2.43	0.58
1:Z:524:MET:SD	1:Z:573:ALA:HA	2.43	0.58
1:j:490:SER:HA	1:j:534:PHE:HA	1.86	0.58
1:H:345:PHE:HB3	1:H:402:SER:HA	1.86	0.57
1:L:415:TYR:OH	1:L:642:HIS:O	2.20	0.57
1:Z:490:SER:HA	1:Z:534:PHE:HA	1.86	0.57
1:j:524:MET:SD	1:j:573:ALA:HA	2.43	0.57
1:o:415:TYR:OH	1:o:642:HIS:O	2.20	0.57
1:q:345:PHE:HB3	1:q:402:SER:HA	1.86	0.57
1:A:345:PHE:HB3	1:A:402:SER:HA	1.87	0.57
1:C:490:SER:HA	1:C:534:PHE:HA	1.85	0.57
1:H:415:TYR:OH	1:H:642:HIS:O	2.21	0.57
1:5:345:PHE:HB3	1:5:402:SER:HA	1.86	0.57
1:k:345:PHE:HB3	1:k:402:SER:HA	1.87	0.57
1:m:524:MET:SD	1:m:573:ALA:HA	2.43	0.57
1:E:345:PHE:HB3	1:E:402:SER:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:345:PHE:HB3	1:G:402:SER:HA	1.86	0.57
1:K:525:ALA:O	1:K:573:ALA:N	2.34	0.57
1:M:345:PHE:HB3	1:M:402:SER:HA	1.86	0.57
1:O:306:TRP:HZ2	1:O:692:SER:HB2	1.67	0.57
1:P:490:SER:HA	1:P:534:PHE:HA	1.86	0.57
1:W:345:PHE:HB3	1:W:402:SER:HA	1.87	0.57
1:W:525:ALA:O	1:W:573:ALA:N	2.34	0.57
1:b:490:SER:HA	1:b:534:PHE:HA	1.85	0.57
1:c:525:ALA:O	1:c:573:ALA:N	2.34	0.57
1:e:345:PHE:HB3	1:e:402:SER:HA	1.87	0.57
1:l:525:ALA:O	1:l:573:ALA:N	2.34	0.57
1:J:345:PHE:HB3	1:J:402:SER:HA	1.87	0.57
1:O:345:PHE:HB3	1:O:402:SER:HA	1.87	0.57
1:R:581:ALA:HA	1:R:593:THR:HG22	1.87	0.57
1:d:345:PHE:HB3	1:d:402:SER:HA	1.87	0.57
1:f:581:ALA:HA	1:f:593:THR:HG22	1.87	0.57
1:k:415:TYR:OH	1:k:642:HIS:O	2.21	0.57
1:k:525:ALA:O	1:k:573:ALA:N	2.34	0.57
1:l:345:PHE:HB3	1:l:402:SER:HA	1.87	0.57
1:n:345:PHE:HB3	1:n:402:SER:HA	1.87	0.57
1:r:345:PHE:HB3	1:r:402:SER:HA	1.87	0.57
1:u:490:SER:HA	1:u:534:PHE:HA	1.86	0.57
1:F:345:PHE:HB3	1:F:402:SER:HA	1.87	0.57
1:H:525:ALA:O	1:H:573:ALA:N	2.34	0.57
1:O:581:ALA:HA	1:O:593:THR:HG22	1.87	0.57
1:S:581:ALA:HA	1:S:593:THR:HG22	1.87	0.57
1:5:581:ALA:HA	1:5:593:THR:HG22	1.87	0.57
1:m:345:PHE:HB3	1:m:402:SER:HA	1.87	0.57
1:t:345:PHE:HB3	1:t:402:SER:HA	1.87	0.57
1:x:490:SER:HA	1:x:534:PHE:HA	1.86	0.57
1:B:350:TYR:OH	1:B:643:PRO:O	2.22	0.57
1:K:581:ALA:HA	1:K:593:THR:HG22	1.87	0.57
1:T:581:ALA:HA	1:T:593:THR:HG22	1.87	0.57
1:Y:345:PHE:HB3	1:Y:402:SER:HA	1.87	0.57
1:Z:696:ASN:HB2	1:Z:697:PRO:HD2	1.87	0.57
1:3:345:PHE:HB3	1:3:402:SER:HA	1.87	0.57
1:3:490:SER:HA	1:3:534:PHE:HA	1.86	0.57
1:j:696:ASN:HB2	1:j:697:PRO:HD2	1.87	0.57
1:p:350:TYR:OH	1:p:643:PRO:O	2.22	0.57
1:x:345:PHE:HB3	1:x:402:SER:HA	1.87	0.57
1:y:525:ALA:O	1:y:573:ALA:N	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:490:SER:HA	1:z:534:PHE:HA	1.85	0.57
1:7:345:PHE:HB3	1:7:402:SER:HA	1.87	0.57
1:A:696:ASN:HB2	1:A:697:PRO:HD2	1.87	0.57
1:I:696:ASN:HB2	1:I:697:PRO:HD2	1.87	0.57
1:N:581:ALA:HA	1:N:593:THR:HG22	1.87	0.57
1:R:345:PHE:HB3	1:R:402:SER:HA	1.87	0.57
1:U:345:PHE:HB3	1:U:402:SER:HA	1.87	0.57
1:1:490:SER:HA	1:1:534:PHE:HA	1.85	0.57
1:4:345:PHE:HB3	1:4:402:SER:HA	1.87	0.57
1:6:581:ALA:HA	1:6:593:THR:HG22	1.87	0.57
1:b:581:ALA:HA	1:b:593:THR:HG22	1.87	0.57
1:f:345:PHE:HB3	1:f:402:SER:HA	1.87	0.57
1:o:345:PHE:HB3	1:o:402:SER:HA	1.86	0.57
1:y:581:ALA:HA	1:y:593:THR:HG22	1.87	0.57
1:7:581:ALA:HA	1:7:593:THR:HG22	1.87	0.57
1:8:345:PHE:HB3	1:8:402:SER:HA	1.87	0.57
1:8:581:ALA:HA	1:8:593:THR:HG22	1.87	0.57
1:B:490:SER:HA	1:B:534:PHE:HA	1.86	0.57
1:D:350:TYR:OH	1:D:643:PRO:O	2.22	0.57
1:F:696:ASN:HB2	1:F:697:PRO:HD2	1.87	0.57
1:P:581:ALA:HA	1:P:593:THR:HG22	1.87	0.57
1:Q:525:ALA:O	1:Q:573:ALA:N	2.34	0.57
1:W:581:ALA:HA	1:W:593:THR:HG22	1.87	0.57
1:4:696:ASN:HB2	1:4:697:PRO:HD2	1.87	0.57
1:a:350:TYR:OH	1:a:643:PRO:O	2.22	0.57
1:k:696:ASN:HB2	1:k:697:PRO:HD2	1.87	0.57
1:p:525:ALA:O	1:p:573:ALA:N	2.34	0.57
1:q:696:ASN:HB2	1:q:697:PRO:HD2	1.87	0.57
1:s:696:ASN:HB2	1:s:697:PRO:HD2	1.87	0.57
1:A:581:ALA:HA	1:A:593:THR:HG22	1.87	0.57
1:B:525:ALA:O	1:B:573:ALA:N	2.34	0.57
1:C:350:TYR:OH	1:C:643:PRO:O	2.22	0.57
1:G:490:SER:HA	1:G:534:PHE:HA	1.86	0.57
1:H:696:ASN:HB2	1:H:697:PRO:HD2	1.87	0.57
1:L:345:PHE:HB3	1:L:402:SER:HA	1.87	0.57
1:T:696:ASN:HB2	1:T:697:PRO:HD2	1.87	0.57
1:U:696:ASN:HB2	1:U:697:PRO:HD2	1.87	0.57
1:V:345:PHE:HB3	1:V:402:SER:HA	1.87	0.57
1:Y:581:ALA:HA	1:Y:593:THR:HG22	1.87	0.57
1:1:696:ASN:HB2	1:1:697:PRO:HD2	1.87	0.57
1:d:696:ASN:HB2	1:d:697:PRO:HD2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:345:PHE:HB3	1:h:402:SER:HA	1.87	0.57
1:p:490:SER:HA	1:p:534:PHE:HA	1.86	0.57
1:u:350:TYR:OH	1:u:643:PRO:O	2.22	0.57
1:u:581:ALA:HA	1:u:593:THR:HG22	1.87	0.57
1:C:581:ALA:HA	1:C:593:THR:HG22	1.87	0.57
1:F:581:ALA:HA	1:F:593:THR:HG22	1.87	0.57
1:G:696:ASN:HB2	1:G:697:PRO:HD2	1.87	0.57
1:I:490:SER:HA	1:I:534:PHE:HA	1.85	0.57
1:P:345:PHE:HB3	1:P:402:SER:HA	1.87	0.57
1:S:696:ASN:HB2	1:S:697:PRO:HD2	1.87	0.57
1:Y:696:ASN:HB2	1:Y:697:PRO:HD2	1.87	0.57
1:6:345:PHE:HB3	1:6:402:SER:HA	1.87	0.57
1:c:694:ARG:NH2	1:d:392:SER:O	2.38	0.57
1:d:581:ALA:HA	1:d:593:THR:HG22	1.87	0.57
1:g:696:ASN:HB2	1:g:697:PRO:HD2	1.87	0.57
1:h:525:ALA:O	1:h:573:ALA:N	2.34	0.57
1:l:581:ALA:HA	1:l:593:THR:HG22	1.87	0.57
1:m:581:ALA:HA	1:m:593:THR:HG22	1.87	0.57
1:m:696:ASN:HB2	1:m:697:PRO:HD2	1.87	0.57
1:p:581:ALA:HA	1:p:593:THR:HG22	1.87	0.57
1:q:581:ALA:HA	1:q:593:THR:HG22	1.87	0.57
1:r:696:ASN:HB2	1:r:697:PRO:HD2	1.87	0.57
1:s:490:SER:HA	1:s:534:PHE:HA	1.86	0.57
1:z:696:ASN:HB2	1:z:697:PRO:HD2	1.87	0.57
1:B:581:ALA:HA	1:B:593:THR:HG22	1.87	0.56
1:E:694:ARG:NH2	1:Q:392:SER:O	2.38	0.56
1:F:392:SER:O	1:Q:694:ARG:NH2	2.38	0.56
1:K:345:PHE:HB3	1:K:402:SER:HA	1.87	0.56
1:T:345:PHE:HB3	1:T:402:SER:HA	1.87	0.56
1:W:696:ASN:HB2	1:W:697:PRO:HD2	1.87	0.56
1:3:581:ALA:HA	1:3:593:THR:HG22	1.87	0.56
1:3:694:ARG:NH2	1:i:392:SER:O	2.38	0.56
1:5:490:SER:HA	1:5:534:PHE:HA	1.86	0.56
1:b:345:PHE:HB3	1:b:402:SER:HA	1.87	0.56
1:i:345:PHE:HB3	1:i:402:SER:HA	1.87	0.56
1:n:490:SER:HA	1:n:534:PHE:HA	1.86	0.56
1:w:345:PHE:HB3	1:w:402:SER:HA	1.87	0.56
1:w:392:SER:O	1:x:694:ARG:NH2	2.38	0.56
1:J:490:SER:HA	1:J:534:PHE:HA	1.86	0.56
1:N:345:PHE:HB3	1:N:402:SER:HA	1.87	0.56
1:N:696:ASN:HB2	1:N:697:PRO:HD2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:490:SER:HA	1:O:534:PHE:HA	1.86	0.56
1:S:345:PHE:HB3	1:S:402:SER:HA	1.87	0.56
1:V:525:ALA:O	1:V:573:ALA:N	2.34	0.56
1:V:581:ALA:HA	1:V:593:THR:HG22	1.87	0.56
1:Y:490:SER:HA	1:Y:534:PHE:HA	1.85	0.56
1:Z:581:ALA:HA	1:Z:593:THR:HG22	1.87	0.56
1:c:392:SER:O	1:e:694:ARG:NH2	2.38	0.56
1:j:345:PHE:HB3	1:j:402:SER:HA	1.87	0.56
1:j:581:ALA:HA	1:j:593:THR:HG22	1.87	0.56
1:l:696:ASN:HB2	1:l:697:PRO:HD2	1.87	0.56
1:r:490:SER:HA	1:r:534:PHE:HA	1.86	0.56
1:C:392:SER:O	1:M:694:ARG:NH2	2.38	0.56
1:H:694:ARG:NH2	1:W:392:SER:O	2.38	0.56
1:J:581:ALA:HA	1:J:593:THR:HG22	1.87	0.56
1:L:490:SER:HA	1:L:534:PHE:HA	1.86	0.56
1:O:374:ILE:HG21	1:O:649:ILE:HD11	1.88	0.56
1:Q:581:ALA:HA	1:Q:593:THR:HG22	1.87	0.56
1:R:694:ARG:NH2	1:S:392:SER:O	2.39	0.56
1:T:392:SER:O	1:f:694:ARG:NH2	2.39	0.56
1:U:525:ALA:O	1:U:573:ALA:N	2.34	0.56
1:W:374:ILE:HG21	1:W:649:ILE:HD11	1.88	0.56
1:X:581:ALA:HA	1:X:593:THR:HG22	1.87	0.56
1:X:696:ASN:HB2	1:X:697:PRO:HD2	1.87	0.56
1:Z:345:PHE:HB3	1:Z:402:SER:HA	1.87	0.56
1:5:374:ILE:HG21	1:5:649:ILE:HD11	1.88	0.56
1:6:696:ASN:HB2	1:6:697:PRO:HD2	1.87	0.56
1:c:581:ALA:HA	1:c:593:THR:HG22	1.87	0.56
1:c:696:ASN:HB2	1:c:697:PRO:HD2	1.87	0.56
1:g:581:ALA:HA	1:g:593:THR:HG22	1.87	0.56
1:k:694:ARG:NH2	1:l:392:SER:O	2.38	0.56
1:l:374:ILE:HG21	1:l:649:ILE:HD11	1.88	0.56
1:m:490:SER:HA	1:m:534:PHE:HA	1.85	0.56
1:n:581:ALA:HA	1:n:593:THR:HG22	1.87	0.56
1:o:490:SER:HA	1:o:534:PHE:HA	1.86	0.56
1:x:581:ALA:HA	1:x:593:THR:HG22	1.87	0.56
1:y:345:PHE:HB3	1:y:402:SER:HA	1.87	0.56
1:8:696:ASN:HB2	1:8:697:PRO:HD2	1.87	0.56
1:F:374:ILE:HG21	1:F:649:ILE:HD11	1.88	0.56
1:I:581:ALA:HA	1:I:593:THR:HG22	1.87	0.56
1:O:696:ASN:HB2	1:O:697:PRO:HD2	1.87	0.56
1:Q:696:ASN:HB2	1:Q:697:PRO:HD2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:696:ASN:HB2	1:R:697:PRO:HD2	1.87	0.56
1:d:374:ILE:HG21	1:d:649:ILE:HD11	1.88	0.56
1:f:696:ASN:HB2	1:f:697:PRO:HD2	1.87	0.56
1:h:581:ALA:HA	1:h:593:THR:HG22	1.87	0.56
1:i:374:ILE:HG21	1:i:649:ILE:HD11	1.88	0.56
1:i:490:SER:HA	1:i:534:PHE:HA	1.86	0.56
1:o:694:ARG:NH2	1:p:392:SER:O	2.39	0.56
1:t:694:ARG:NH2	1:u:392:SER:O	2.39	0.56
1:w:374:ILE:HG21	1:w:649:ILE:HD11	1.88	0.56
1:w:490:SER:HA	1:w:534:PHE:HA	1.86	0.56
1:z:525:ALA:O	1:z:573:ALA:N	2.34	0.56
1:7:696:ASN:HB2	1:7:697:PRO:HD2	1.87	0.56
1:B:392:SER:O	1:L:694:ARG:NH2	2.39	0.56
1:C:374:ILE:HG21	1:C:649:ILE:HD11	1.88	0.56
1:D:345:PHE:HB3	1:D:402:SER:HA	1.87	0.56
1:D:490:SER:HA	1:D:534:PHE:HA	1.86	0.56
1:D:694:ARG:NH2	1:N:392:SER:O	2.38	0.56
1:H:392:SER:O	1:Y:694:ARG:NH2	2.39	0.56
1:K:392:SER:O	1:8:694:ARG:NH2	2.39	0.56
1:N:350:TYR:OH	1:N:643:PRO:O	2.22	0.56
1:R:374:ILE:HG21	1:R:649:ILE:HD11	1.88	0.56
1:a:490:SER:HA	1:a:534:PHE:HA	1.86	0.56
1:f:374:ILE:HG21	1:f:649:ILE:HD11	1.88	0.56
1:i:581:ALA:HA	1:i:593:THR:HG22	1.87	0.56
1:k:392:SER:O	1:m:694:ARG:NH2	2.39	0.56
1:s:581:ALA:HA	1:s:593:THR:HG22	1.87	0.56
1:t:581:ALA:HA	1:t:593:THR:HG22	1.87	0.56
1:v:581:ALA:HA	1:v:593:THR:HG22	1.87	0.56
1:w:581:ALA:HA	1:w:593:THR:HG22	1.87	0.56
1:y:392:SER:O	1:7:694:ARG:NH2	2.39	0.56
1:A:392:SER:O	1:I:694:ARG:NH2	2.38	0.56
1:D:392:SER:O	1:P:694:ARG:NH2	2.39	0.56
1:D:581:ALA:HA	1:D:593:THR:HG22	1.87	0.56
1:L:696:ASN:HB2	1:L:697:PRO:HD2	1.87	0.56
1:R:490:SER:HA	1:R:534:PHE:HA	1.85	0.56
1:2:345:PHE:HB3	1:2:402:SER:HA	1.87	0.56
1:4:525:ALA:O	1:4:573:ALA:N	2.34	0.56
1:5:696:ASN:HB2	1:5:697:PRO:HD2	1.87	0.56
1:6:350:TYR:OH	1:6:643:PRO:O	2.22	0.56
1:a:581:ALA:HA	1:a:593:THR:HG22	1.87	0.56
1:c:345:PHE:HB3	1:c:402:SER:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:696:ASN:HB2	1:i:697:PRO:HD2	1.87	0.56
1:k:581:ALA:HA	1:k:593:THR:HG22	1.87	0.56
1:n:392:SER:O	1:p:694:ARG:NH2	2.39	0.56
1:p:696:ASN:HB2	1:p:697:PRO:HD2	1.87	0.56
1:t:392:SER:O	1:v:694:ARG:NH2	2.39	0.56
1:u:374:ILE:HG21	1:u:649:ILE:HD11	1.88	0.56
1:v:345:PHE:HB3	1:v:402:SER:HA	1.87	0.56
1:w:696:ASN:HB2	1:w:697:PRO:HD2	1.87	0.56
1:B:694:ARG:NH2	1:J:392:SER:O	2.39	0.56
1:B:696:ASN:HB2	1:B:697:PRO:HD2	1.87	0.56
1:C:696:ASN:HB2	1:C:697:PRO:HD2	1.87	0.56
1:D:374:ILE:HG21	1:D:649:ILE:HD11	1.88	0.56
1:H:581:ALA:HA	1:H:593:THR:HG22	1.87	0.56
1:M:392:SER:O	1:2:694:ARG:NH2	2.39	0.56
1:M:581:ALA:HA	1:M:593:THR:HG22	1.87	0.56
1:V:374:ILE:HG21	1:V:649:ILE:HD11	1.88	0.56
1:1:374:ILE:HG21	1:1:649:ILE:HD11	1.88	0.56
1:1:525:ALA:O	1:1:573:ALA:N	2.34	0.56
1:1:581:ALA:HA	1:1:593:THR:HG22	1.87	0.56
1:3:696:ASN:HB2	1:3:697:PRO:HD2	1.87	0.56
1:a:345:PHE:HB3	1:a:402:SER:HA	1.87	0.56
1:a:392:SER:O	1:b:694:ARG:NH2	2.39	0.56
1:p:345:PHE:HB3	1:p:402:SER:HA	1.87	0.56
1:r:694:ARG:NH2	1:s:392:SER:O	2.38	0.56
1:z:374:ILE:HG21	1:z:649:ILE:HD11	1.88	0.56
1:B:345:PHE:HB3	1:B:402:SER:HA	1.87	0.56
1:E:374:ILE:HG21	1:E:649:ILE:HD11	1.88	0.56
1:G:694:ARG:NH2	1:I:392:SER:O	2.38	0.56
1:I:350:TYR:OH	1:I:643:PRO:O	2.22	0.56
1:K:694:ARG:NH2	1:1:392:SER:O	2.39	0.56
1:Q:345:PHE:HB3	1:Q:402:SER:HA	1.87	0.56
1:Y:525:ALA:O	1:Y:573:ALA:N	2.34	0.56
1:1:345:PHE:HB3	1:1:402:SER:HA	1.87	0.56
1:2:581:ALA:HA	1:2:593:THR:HG22	1.87	0.56
1:a:374:ILE:HG21	1:a:649:ILE:HD11	1.88	0.56
1:h:374:ILE:HG21	1:h:649:ILE:HD11	1.88	0.56
1:z:581:ALA:HA	1:z:593:THR:HG22	1.87	0.56
1:A:525:ALA:O	1:A:573:ALA:N	2.34	0.56
1:A:694:ARG:NH2	1:G:392:SER:O	2.38	0.56
1:D:441:ASP:OD2	1:N:550:ARG:NH1	2.39	0.56
1:G:581:ALA:HA	1:G:593:THR:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:345:PHE:HB3	1:I:402:SER:HA	1.87	0.56
1:L:712:GLU:HB3	1:L:724:PRO:HG3	1.88	0.56
1:T:694:ARG:NH2	1:4:392:SER:O	2.39	0.56
1:W:694:ARG:NH2	1:Y:392:SER:O	2.39	0.56
1:6:694:ARG:NH2	1:b:392:SER:O	2.39	0.56
1:f:490:SER:HA	1:f:534:PHE:HA	1.85	0.56
1:g:694:ARG:NH2	1:h:392:SER:O	2.39	0.56
1:o:696:ASN:HB2	1:o:697:PRO:HD2	1.87	0.56
1:o:712:GLU:HB3	1:o:724:PRO:HG3	1.88	0.56
1:u:694:ARG:NH2	1:v:392:SER:O	2.39	0.56
1:u:696:ASN:HB2	1:u:697:PRO:HD2	1.87	0.56
1:x:696:ASN:HB2	1:x:697:PRO:HD2	1.87	0.56
1:y:694:ARG:NH2	1:z:392:SER:O	2.39	0.56
1:z:345:PHE:HB3	1:z:402:SER:HA	1.87	0.56
1:C:694:ARG:NH2	1:2:392:SER:O	2.39	0.56
1:D:712:GLU:HB3	1:D:724:PRO:HG3	1.88	0.56
1:H:374:ILE:HG21	1:H:649:ILE:HD11	1.88	0.56
1:L:581:ALA:HA	1:L:593:THR:HG22	1.87	0.56
1:a:712:GLU:HB3	1:a:724:PRO:HG3	1.88	0.56
1:e:374:ILE:HG21	1:e:649:ILE:HD11	1.88	0.56
1:l:694:ARG:NH2	1:m:392:SER:O	2.39	0.56
1:o:581:ALA:HA	1:o:593:THR:HG22	1.87	0.56
1:p:374:ILE:HG21	1:p:649:ILE:HD11	1.88	0.56
1:s:345:PHE:HB3	1:s:402:SER:HA	1.87	0.56
1:t:712:GLU:HB3	1:t:724:PRO:HG3	1.88	0.56
1:B:374:ILE:HD13	1:B:649:ILE:HD11	1.89	0.55
1:C:712:GLU:HB3	1:C:724:PRO:HG3	1.88	0.55
1:E:696:ASN:HB2	1:E:697:PRO:HD2	1.87	0.55
1:J:374:ILE:HG21	1:J:649:ILE:HD11	1.88	0.55
1:J:696:ASN:HB2	1:J:697:PRO:HD2	1.87	0.55
1:M:712:GLU:HB3	1:M:724:PRO:HG3	1.88	0.55
1:O:350:TYR:OH	1:O:643:PRO:O	2.22	0.55
1:S:694:ARG:NH2	1:U:392:SER:O	2.39	0.55
1:V:392:SER:O	1:X:694:ARG:NH2	2.39	0.55
1:V:694:ARG:NH2	1:5:392:SER:O	2.39	0.55
1:Z:694:ARG:NH2	1:x:392:SER:O	2.38	0.55
1:5:350:TYR:OH	1:5:643:PRO:O	2.22	0.55
1:6:392:SER:O	1:a:694:ARG:NH2	2.39	0.55
1:k:374:ILE:HG21	1:k:649:ILE:HD11	1.88	0.55
1:p:374:ILE:HD13	1:p:649:ILE:HD11	1.89	0.55
1:q:392:SER:O	1:s:694:ARG:NH2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:525:ALA:O	1:q:573:ALA:N	2.34	0.55
1:u:712:GLU:HB3	1:u:724:PRO:HG3	1.88	0.55
1:B:374:ILE:HG21	1:B:649:ILE:HD11	1.88	0.55
1:C:345:PHE:HB3	1:C:402:SER:HA	1.87	0.55
1:D:696:ASN:HB2	1:D:697:PRO:HD2	1.87	0.55
1:E:712:GLU:HB3	1:E:724:PRO:HG3	1.88	0.55
1:O:392:SER:O	1:h:694:ARG:NH2	2.39	0.55
1:R:392:SER:O	1:U:694:ARG:NH2	2.39	0.55
1:S:374:ILE:HD13	1:S:649:ILE:HD11	1.89	0.55
1:S:374:ILE:HG21	1:S:649:ILE:HD11	1.88	0.55
1:T:374:ILE:HD13	1:T:649:ILE:HD11	1.89	0.55
1:U:581:ALA:HA	1:U:593:THR:HG22	1.87	0.55
1:Z:374:ILE:HG21	1:Z:649:ILE:HD11	1.88	0.55
1:1:712:GLU:HB3	1:1:724:PRO:HG3	1.89	0.55
1:2:696:ASN:HB2	1:2:697:PRO:HD2	1.87	0.55
1:4:581:ALA:HA	1:4:593:THR:HG22	1.87	0.55
1:g:345:PHE:HB3	1:g:402:SER:HA	1.87	0.55
1:h:712:GLU:HB3	1:h:724:PRO:HG3	1.88	0.55
1:i:694:ARG:NH2	1:j:392:SER:O	2.38	0.55
1:j:374:ILE:HG21	1:j:649:ILE:HD11	1.88	0.55
1:m:525:ALA:O	1:m:573:ALA:N	2.34	0.55
1:n:374:ILE:HG21	1:n:649:ILE:HD11	1.88	0.55
1:r:581:ALA:HA	1:r:593:THR:HG22	1.87	0.55
1:t:374:ILE:HG21	1:t:649:ILE:HD11	1.88	0.55
1:u:345:PHE:HB3	1:u:402:SER:HA	1.87	0.55
1:z:712:GLU:HB3	1:z:724:PRO:HG3	1.88	0.55
1:J:712:GLU:HB3	1:J:724:PRO:HG3	1.88	0.55
1:O:374:ILE:HD13	1:O:649:ILE:HD11	1.89	0.55
1:O:694:ARG:NH2	1:g:392:SER:O	2.39	0.55
1:P:374:ILE:HG21	1:P:649:ILE:HD11	1.88	0.55
1:T:374:ILE:HG21	1:T:649:ILE:HD11	1.88	0.55
1:V:712:GLU:HB3	1:V:724:PRO:HG3	1.88	0.55
1:2:374:ILE:HG21	1:2:649:ILE:HD11	1.88	0.55
1:3:392:SER:O	1:j:694:ARG:NH2	2.39	0.55
1:4:694:ARG:NH2	1:f:392:SER:O	2.39	0.55
1:5:374:ILE:HD13	1:5:649:ILE:HD11	1.89	0.55
1:a:696:ASN:HB2	1:a:697:PRO:HD2	1.87	0.55
1:b:374:ILE:HG21	1:b:649:ILE:HD11	1.88	0.55
1:b:712:GLU:HB3	1:b:724:PRO:HG3	1.88	0.55
1:d:694:ARG:NH2	1:e:392:SER:O	2.38	0.55
1:e:696:ASN:HB2	1:e:697:PRO:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:696:ASN:HB2	1:n:697:PRO:HD2	1.87	0.55
1:y:374:ILE:HG21	1:y:649:ILE:HD11	1.88	0.55
1:E:392:SER:O	1:F:694:ARG:NH2	2.38	0.55
1:H:374:ILE:HD13	1:H:649:ILE:HD11	1.89	0.55
1:I:374:ILE:HG21	1:I:649:ILE:HD11	1.88	0.55
1:K:374:ILE:HG21	1:K:649:ILE:HD11	1.88	0.55
1:M:239:VAL:HG23	1:M:687:LEU:HD11	1.89	0.55
1:M:374:ILE:HG21	1:M:649:ILE:HD11	1.88	0.55
1:P:696:ASN:HB2	1:P:697:PRO:HD2	1.87	0.55
1:P:712:GLU:HB3	1:P:724:PRO:HG3	1.88	0.55
1:R:712:GLU:HB3	1:R:724:PRO:HG3	1.88	0.55
1:S:239:VAL:HG23	1:S:687:LEU:HD11	1.89	0.55
1:X:345:PHE:HB3	1:X:402:SER:HA	1.87	0.55
1:Z:239:VAL:HG23	1:Z:687:LEU:HD11	1.89	0.55
1:Z:392:SER:O	1:w:694:ARG:NH2	2.38	0.55
1:1:239:VAL:HG23	1:1:687:LEU:HD11	1.89	0.55
1:1:694:ARG:NH2	1:8:392:SER:O	2.39	0.55
1:6:374:ILE:HG21	1:6:649:ILE:HD11	1.88	0.55
1:e:712:GLU:HB3	1:e:724:PRO:HG3	1.88	0.55
1:j:239:VAL:HG23	1:j:687:LEU:HD11	1.89	0.55
1:k:239:VAL:HG23	1:k:687:LEU:HD11	1.89	0.55
1:n:712:GLU:HB3	1:n:724:PRO:HG3	1.88	0.55
1:s:374:ILE:HG21	1:s:649:ILE:HD11	1.88	0.55
1:E:581:ALA:HA	1:E:593:THR:HG22	1.87	0.55
1:H:239:VAL:HG23	1:H:687:LEU:HD11	1.89	0.55
1:I:374:ILE:HD13	1:I:649:ILE:HD11	1.89	0.55
1:L:374:ILE:HG21	1:L:649:ILE:HD11	1.88	0.55
1:L:528:LYS:HG2	1:L:529:GLU:N	2.22	0.55
1:N:374:ILE:HG21	1:N:649:ILE:HD11	1.88	0.55
1:T:239:VAL:HG23	1:T:687:LEU:HD11	1.89	0.55
1:V:696:ASN:HB2	1:V:697:PRO:HD2	1.87	0.55
1:X:392:SER:O	1:5:694:ARG:NH2	2.39	0.55
1:Y:528:LYS:HG2	1:Y:529:GLU:N	2.22	0.55
1:b:696:ASN:HB2	1:b:697:PRO:HD2	1.87	0.55
1:e:528:LYS:HG2	1:e:529:GLU:N	2.22	0.55
1:f:712:GLU:HB3	1:f:724:PRO:HG3	1.88	0.55
1:k:374:ILE:HD13	1:k:649:ILE:HD11	1.89	0.55
1:m:374:ILE:HD13	1:m:649:ILE:HD11	1.89	0.55
1:o:374:ILE:HG21	1:o:649:ILE:HD11	1.88	0.55
1:o:528:LYS:HG2	1:o:529:GLU:N	2.22	0.55
1:q:694:ARG:NH2	1:r:392:SER:O	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:239:VAL:HG23	1:r:687:LEU:HD11	1.89	0.55
1:t:239:VAL:HG23	1:t:687:LEU:HD11	1.89	0.55
1:t:696:ASN:HB2	1:t:697:PRO:HD2	1.87	0.55
1:v:696:ASN:HB2	1:v:697:PRO:HD2	1.87	0.55
1:z:239:VAL:HG23	1:z:687:LEU:HD11	1.89	0.55
1:z:694:ARG:NH2	1:7:392:SER:O	2.39	0.55
1:E:528:LYS:HG2	1:E:529:GLU:N	2.22	0.55
1:G:239:VAL:HG23	1:G:687:LEU:HD11	1.89	0.55
1:G:374:ILE:HD13	1:G:649:ILE:HD11	1.89	0.55
1:K:350:TYR:OH	1:K:643:PRO:O	2.22	0.55
1:N:525:ALA:O	1:N:573:ALA:N	2.34	0.55
1:N:712:GLU:HB3	1:N:724:PRO:HG3	1.89	0.55
1:R:528:LYS:HG2	1:R:529:GLU:N	2.22	0.55
1:Y:374:ILE:HD13	1:Y:649:ILE:HD11	1.89	0.55
1:6:712:GLU:HB3	1:6:724:PRO:HG3	1.88	0.55
1:c:374:ILE:HG21	1:c:649:ILE:HD11	1.88	0.55
1:i:239:VAL:HG23	1:i:687:LEU:HD11	1.89	0.55
1:m:528:LYS:HG2	1:m:529:GLU:N	2.22	0.55
1:n:694:ARG:NH2	1:o:392:SER:O	2.39	0.55
1:t:528:LYS:HG2	1:t:529:GLU:N	2.22	0.55
1:v:374:ILE:HG21	1:v:649:ILE:HD11	1.88	0.55
1:7:374:ILE:HD13	1:7:649:ILE:HD11	1.89	0.55
1:A:374:ILE:HD13	1:A:649:ILE:HD11	1.89	0.55
1:J:694:ARG:NH2	1:L:392:SER:O	2.39	0.55
1:K:374:ILE:HD13	1:K:649:ILE:HD11	1.89	0.55
1:M:528:LYS:HG2	1:M:529:GLU:N	2.22	0.55
1:M:696:ASN:HB2	1:M:697:PRO:HD2	1.87	0.55
1:Q:374:ILE:HG21	1:Q:649:ILE:HD11	1.88	0.55
1:U:528:LYS:HG2	1:U:529:GLU:N	2.22	0.55
1:X:525:ALA:O	1:X:573:ALA:N	2.34	0.55
1:1:528:LYS:HG2	1:1:529:GLU:N	2.22	0.55
1:4:528:LYS:HG2	1:4:529:GLU:N	2.22	0.55
1:4:712:GLU:HB3	1:4:724:PRO:HG3	1.88	0.55
1:5:712:GLU:HB3	1:5:724:PRO:HG3	1.88	0.55
1:e:581:ALA:HA	1:e:593:THR:HG22	1.87	0.55
1:f:528:LYS:HG2	1:f:529:GLU:N	2.22	0.55
1:h:696:ASN:HB2	1:h:697:PRO:HD2	1.87	0.55
1:i:526:SER:OG	1:i:562:ASN:OD1	2.25	0.55
1:n:239:VAL:HG23	1:n:687:LEU:HD11	1.89	0.55
1:p:239:VAL:HG23	1:p:687:LEU:HD11	1.89	0.55
1:r:374:ILE:HD13	1:r:649:ILE:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:374:ILE:HD13	1:s:649:ILE:HD11	1.89	0.55
1:y:374:ILE:HD13	1:y:649:ILE:HD11	1.89	0.55
1:z:528:LYS:HG2	1:z:529:GLU:N	2.22	0.55
1:B:239:VAL:HG23	1:B:687:LEU:HD11	1.89	0.55
1:D:528:LYS:HG2	1:D:529:GLU:N	2.22	0.55
1:H:436:MET:HE1	1:H:471:MET:HE1	1.89	0.55
1:I:528:LYS:HG2	1:I:529:GLU:N	2.22	0.55
1:I:712:GLU:HB3	1:I:724:PRO:HG3	1.88	0.55
1:K:526:SER:OG	1:K:562:ASN:OD1	2.25	0.55
1:W:374:ILE:HD13	1:W:649:ILE:HD11	1.89	0.55
1:g:525:ALA:O	1:g:573:ALA:N	2.34	0.55
1:k:436:MET:HE1	1:k:471:MET:HE1	1.89	0.55
1:l:374:ILE:HD13	1:l:649:ILE:HD11	1.89	0.55
1:q:374:ILE:HD13	1:q:649:ILE:HD11	1.89	0.55
1:s:528:LYS:HG2	1:s:529:GLU:N	2.22	0.55
1:u:374:ILE:HD13	1:u:649:ILE:HD11	1.89	0.55
1:w:239:VAL:HG23	1:w:687:LEU:HD11	1.89	0.55
1:x:528:LYS:HG2	1:x:529:GLU:N	2.22	0.55
1:y:350:TYR:OH	1:y:643:PRO:O	2.22	0.55
1:y:696:ASN:HB2	1:y:697:PRO:HD2	1.87	0.55
1:z:526:SER:OG	1:z:562:ASN:OD1	2.25	0.55
1:7:712:GLU:HB3	1:7:724:PRO:HG3	1.89	0.55
1:8:374:ILE:HD13	1:8:649:ILE:HD11	1.89	0.55
1:C:374:ILE:HD13	1:C:649:ILE:HD11	1.89	0.55
1:J:239:VAL:HG23	1:J:687:LEU:HD11	1.89	0.55
1:K:696:ASN:HB2	1:K:697:PRO:HD2	1.87	0.55
1:O:712:GLU:HB3	1:O:724:PRO:HG3	1.88	0.55
1:Q:374:ILE:HD13	1:Q:649:ILE:HD11	1.89	0.55
1:U:712:GLU:HB3	1:U:724:PRO:HG3	1.88	0.55
1:Z:526:SER:OG	1:Z:562:ASN:OD1	2.25	0.55
1:1:526:SER:OG	1:1:562:ASN:OD1	2.25	0.55
1:3:528:LYS:HG2	1:3:529:GLU:N	2.22	0.55
1:6:525:ALA:O	1:6:573:ALA:N	2.34	0.55
1:6:526:SER:OG	1:6:562:ASN:OD1	2.25	0.55
1:a:528:LYS:HG2	1:a:529:GLU:N	2.22	0.55
1:c:239:VAL:HG23	1:c:687:LEU:HD11	1.89	0.55
1:c:712:GLU:HB3	1:c:724:PRO:HG3	1.89	0.55
1:m:239:VAL:HG23	1:m:687:LEU:HD11	1.89	0.55
1:m:374:ILE:HG21	1:m:649:ILE:HD11	1.88	0.55
1:r:374:ILE:HG21	1:r:649:ILE:HD11	1.88	0.55
1:r:712:GLU:HB3	1:r:724:PRO:HG3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:526:SER:OG	1:y:562:ASN:OD1	2.25	0.55
1:F:239:VAL:HG23	1:F:687:LEU:HD11	1.89	0.55
1:G:374:ILE:HG21	1:G:649:ILE:HD11	1.88	0.55
1:G:712:GLU:HB3	1:G:724:PRO:HG3	1.88	0.55
1:N:239:VAL:HG23	1:N:687:LEU:HD11	1.89	0.55
1:N:526:SER:OG	1:N:562:ASN:OD1	2.25	0.55
1:N:694:ARG:NH2	1:P:392:SER:O	2.40	0.55
1:O:436:MET:HE1	1:O:471:MET:HE1	1.89	0.55
1:P:342:VAL:HG22	1:P:651:ASN:HB3	1.89	0.55
1:Q:239:VAL:HG23	1:Q:687:LEU:HD11	1.89	0.55
1:Q:712:GLU:HB3	1:Q:724:PRO:HG3	1.89	0.55
1:S:350:TYR:OH	1:S:643:PRO:O	2.22	0.55
1:W:528:LYS:HG2	1:W:529:GLU:N	2.22	0.55
1:X:374:ILE:HD13	1:X:649:ILE:HD11	1.89	0.55
1:Y:239:VAL:HG23	1:Y:687:LEU:HD11	1.89	0.55
1:Y:526:SER:OG	1:Y:562:ASN:OD1	2.25	0.55
1:1:436:MET:HE1	1:1:471:MET:HE1	1.89	0.55
1:2:374:ILE:HD13	1:2:649:ILE:HD11	1.89	0.55
1:5:436:MET:HE1	1:5:471:MET:HE1	1.89	0.55
1:6:239:VAL:HG23	1:6:687:LEU:HD11	1.89	0.55
1:b:342:VAL:HG22	1:b:651:ASN:HB3	1.89	0.55
1:c:374:ILE:HD13	1:c:649:ILE:HD11	1.89	0.55
1:i:712:GLU:HB3	1:i:724:PRO:HG3	1.88	0.55
1:p:342:VAL:HG22	1:p:651:ASN:HB3	1.89	0.55
1:s:712:GLU:HB3	1:s:724:PRO:HG3	1.88	0.55
1:u:528:LYS:HG2	1:u:529:GLU:N	2.22	0.55
1:z:436:MET:HE1	1:z:471:MET:HE1	1.89	0.55
1:7:350:TYR:OH	1:7:643:PRO:O	2.22	0.55
1:8:712:GLU:HB3	1:8:724:PRO:HG3	1.89	0.55
1:B:342:VAL:HG22	1:B:651:ASN:HB3	1.90	0.54
1:C:528:LYS:HG2	1:C:529:GLU:N	2.22	0.54
1:D:243:SER:HB3	1:D:245:ARG:NH1	2.22	0.54
1:K:342:VAL:HG22	1:K:651:ASN:HB3	1.89	0.54
1:L:436:MET:HE1	1:L:471:MET:HE1	1.89	0.54
1:P:528:LYS:HG2	1:P:529:GLU:N	2.22	0.54
1:T:342:VAL:HG22	1:T:651:ASN:HB3	1.90	0.54
1:T:350:TYR:OH	1:T:643:PRO:O	2.22	0.54
1:U:342:VAL:HG22	1:U:651:ASN:HB3	1.89	0.54
1:6:550:ARG:NH1	1:a:441:ASP:OD2	2.41	0.54
1:a:243:SER:HB3	1:a:245:ARG:NH1	2.22	0.54
1:d:239:VAL:HG23	1:d:687:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:374:ILE:HD13	1:e:649:ILE:HD11	1.89	0.54
1:g:374:ILE:HD13	1:g:649:ILE:HD11	1.89	0.54
1:j:526:SER:OG	1:j:562:ASN:OD1	2.25	0.54
1:l:528:LYS:HG2	1:l:529:GLU:N	2.22	0.54
1:m:436:MET:HE1	1:m:471:MET:HE1	1.89	0.54
1:m:526:SER:OG	1:m:562:ASN:OD1	2.25	0.54
1:o:436:MET:HE1	1:o:471:MET:HE1	1.89	0.54
1:s:436:MET:HE1	1:s:471:MET:HE1	1.89	0.54
1:u:342:VAL:HG22	1:u:651:ASN:HB3	1.89	0.54
1:v:374:ILE:HD13	1:v:649:ILE:HD11	1.89	0.54
1:x:374:ILE:HG21	1:x:649:ILE:HD11	1.88	0.54
1:8:374:ILE:HG21	1:8:649:ILE:HD11	1.88	0.54
1:C:342:VAL:HG22	1:C:651:ASN:HB3	1.89	0.54
1:D:374:ILE:HD13	1:D:649:ILE:HD11	1.89	0.54
1:D:550:ARG:NH1	1:P:441:ASP:OD2	2.40	0.54
1:G:436:MET:HE1	1:G:471:MET:HE1	1.89	0.54
1:H:506:ALA:HB1	1:H:517:LEU:HD11	1.90	0.54
1:I:436:MET:HE1	1:I:471:MET:HE1	1.90	0.54
1:L:509:TRP:HD1	1:L:518:MET:SD	2.31	0.54
1:O:239:VAL:HG23	1:O:687:LEU:HD11	1.89	0.54
1:P:509:TRP:HD1	1:P:518:MET:SD	2.31	0.54
1:Q:506:ALA:HB1	1:Q:517:LEU:HD11	1.90	0.54
1:S:342:VAL:HG22	1:S:651:ASN:HB3	1.90	0.54
1:S:436:MET:HE1	1:S:471:MET:HE1	1.89	0.54
1:V:528:LYS:HG2	1:V:529:GLU:N	2.22	0.54
1:X:374:ILE:HG21	1:X:649:ILE:HD11	1.88	0.54
1:Y:374:ILE:HG21	1:Y:649:ILE:HD11	1.88	0.54
1:Y:436:MET:HE1	1:Y:471:MET:HE1	1.89	0.54
1:Z:342:VAL:HG22	1:Z:651:ASN:HB3	1.89	0.54
1:1:374:ILE:HD13	1:1:649:ILE:HD11	1.89	0.54
1:3:342:VAL:HG22	1:3:651:ASN:HB3	1.90	0.54
1:4:239:VAL:HG23	1:4:687:LEU:HD11	1.89	0.54
1:4:342:VAL:HG22	1:4:651:ASN:HB3	1.89	0.54
1:6:528:LYS:HG2	1:6:529:GLU:N	2.22	0.54
1:b:509:TRP:HD1	1:b:518:MET:SD	2.31	0.54
1:b:528:LYS:HG2	1:b:529:GLU:N	2.22	0.54
1:c:506:ALA:HB1	1:c:517:LEU:HD11	1.90	0.54
1:d:712:GLU:HB3	1:d:724:PRO:HG3	1.88	0.54
1:g:712:GLU:HB3	1:g:724:PRO:HG3	1.88	0.54
1:k:506:ALA:HB1	1:k:517:LEU:HD11	1.90	0.54
1:l:712:GLU:HB3	1:l:724:PRO:HG3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:509:TRP:HD1	1:o:518:MET:SD	2.31	0.54
1:r:436:MET:HE1	1:r:471:MET:HE1	1.89	0.54
1:s:525:ALA:O	1:s:573:ALA:N	2.34	0.54
1:t:506:ALA:HB1	1:t:517:LEU:HD11	1.89	0.54
1:u:239:VAL:HG23	1:u:687:LEU:HD11	1.89	0.54
1:y:342:VAL:HG22	1:y:651:ASN:HB3	1.89	0.54
1:8:528:LYS:HG2	1:8:529:GLU:N	2.22	0.54
1:A:509:TRP:HD1	1:A:518:MET:SD	2.31	0.54
1:B:436:MET:HE1	1:B:471:MET:HE1	1.89	0.54
1:E:239:VAL:HG23	1:E:687:LEU:HD11	1.89	0.54
1:E:374:ILE:HD13	1:E:649:ILE:HD11	1.89	0.54
1:F:509:TRP:HD1	1:F:518:MET:SD	2.31	0.54
1:G:342:VAL:HG22	1:G:651:ASN:HB3	1.90	0.54
1:I:239:VAL:HG23	1:I:687:LEU:HD11	1.89	0.54
1:K:436:MET:HE1	1:K:471:MET:HE1	1.89	0.54
1:M:506:ALA:HB1	1:M:517:LEU:HD11	1.90	0.54
1:O:528:LYS:HG2	1:O:529:GLU:N	2.22	0.54
1:Q:350:TYR:OH	1:Q:643:PRO:O	2.22	0.54
1:T:436:MET:HE1	1:T:471:MET:HE1	1.89	0.54
1:U:239:VAL:HG23	1:U:687:LEU:HD11	1.89	0.54
1:U:374:ILE:HD13	1:U:649:ILE:HD11	1.89	0.54
1:X:509:TRP:HD1	1:X:518:MET:SD	2.31	0.54
1:1:441:ASP:OD2	1:8:550:ARG:NH1	2.41	0.54
1:3:374:ILE:HG21	1:3:649:ILE:HD11	1.88	0.54
1:3:436:MET:HE1	1:3:471:MET:HE1	1.90	0.54
1:4:374:ILE:HD13	1:4:649:ILE:HD11	1.89	0.54
1:5:239:VAL:HG23	1:5:687:LEU:HD11	1.89	0.54
1:a:525:ALA:O	1:a:573:ALA:N	2.34	0.54
1:c:350:TYR:OH	1:c:643:PRO:O	2.22	0.54
1:d:509:TRP:HD1	1:d:518:MET:SD	2.31	0.54
1:g:374:ILE:HG21	1:g:649:ILE:HD11	1.88	0.54
1:g:509:TRP:HD1	1:g:518:MET:SD	2.31	0.54
1:g:528:LYS:HG2	1:g:529:GLU:N	2.22	0.54
1:h:243:SER:HB3	1:h:245:ARG:NH1	2.22	0.54
1:h:528:LYS:HG2	1:h:529:GLU:N	2.22	0.54
1:j:342:VAL:HG22	1:j:651:ASN:HB3	1.89	0.54
1:p:436:MET:HE1	1:p:471:MET:HE1	1.89	0.54
1:q:712:GLU:HB3	1:q:724:PRO:HG3	1.89	0.54
1:s:239:VAL:HG23	1:s:687:LEU:HD11	1.89	0.54
1:w:712:GLU:HB3	1:w:724:PRO:HG3	1.89	0.54
1:x:342:VAL:HG22	1:x:651:ASN:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:239:VAL:HG23	1:y:687:LEU:HD11	1.89	0.54
1:y:436:MET:HE1	1:y:471:MET:HE1	1.89	0.54
1:7:374:ILE:HG21	1:7:649:ILE:HD11	1.88	0.54
1:7:528:LYS:HG2	1:7:529:GLU:N	2.22	0.54
1:8:350:TYR:OH	1:8:643:PRO:O	2.22	0.54
1:8:509:TRP:HD1	1:8:518:MET:SD	2.31	0.54
1:A:528:LYS:HG2	1:A:529:GLU:N	2.22	0.54
1:A:712:GLU:HB3	1:A:724:PRO:HG3	1.88	0.54
1:C:239:VAL:HG23	1:C:687:LEU:HD11	1.89	0.54
1:D:509:TRP:HD1	1:D:518:MET:SD	2.31	0.54
1:F:712:GLU:HB3	1:F:724:PRO:HG3	1.88	0.54
1:G:526:SER:OG	1:G:562:ASN:OD1	2.25	0.54
1:H:509:TRP:HD1	1:H:518:MET:SD	2.31	0.54
1:I:525:ALA:O	1:I:573:ALA:N	2.34	0.54
1:N:506:ALA:HB1	1:N:517:LEU:HD11	1.90	0.54
1:N:528:LYS:HG2	1:N:529:GLU:N	2.22	0.54
1:Q:436:MET:HE1	1:Q:471:MET:HE1	1.89	0.54
1:R:239:VAL:HG23	1:R:687:LEU:HD11	1.89	0.54
1:R:404:MET:SD	1:V:319:ASN:ND2	2.81	0.54
1:S:528:LYS:HG2	1:S:529:GLU:N	2.22	0.54
1:W:436:MET:HE1	1:W:471:MET:HE1	1.89	0.54
1:X:239:VAL:HG23	1:X:687:LEU:HD11	1.89	0.54
1:X:528:LYS:HG2	1:X:529:GLU:N	2.22	0.54
1:X:712:GLU:HB3	1:X:724:PRO:HG3	1.88	0.54
1:Y:243:SER:HB3	1:Y:245:ARG:NH1	2.22	0.54
1:Z:506:ALA:HB1	1:Z:517:LEU:HD11	1.90	0.54
1:1:509:TRP:HD1	1:1:518:MET:SD	2.31	0.54
1:3:239:VAL:HG23	1:3:687:LEU:HD11	1.89	0.54
1:5:528:LYS:HG2	1:5:529:GLU:N	2.22	0.54
1:6:374:ILE:HD13	1:6:649:ILE:HD11	1.89	0.54
1:a:509:TRP:HD1	1:a:518:MET:SD	2.31	0.54
1:b:239:VAL:HG23	1:b:687:LEU:HD11	1.89	0.54
1:c:436:MET:HE1	1:c:471:MET:HE1	1.89	0.54
1:e:239:VAL:HG23	1:e:687:LEU:HD11	1.89	0.54
1:f:404:MET:SD	1:h:319:ASN:ND2	2.81	0.54
1:k:509:TRP:HD1	1:k:518:MET:SD	2.31	0.54
1:m:243:SER:HB3	1:m:245:ARG:NH1	2.22	0.54
1:q:509:TRP:HD1	1:q:518:MET:SD	2.31	0.54
1:q:528:LYS:HG2	1:q:529:GLU:N	2.22	0.54
1:r:342:VAL:HG22	1:r:651:ASN:HB3	1.90	0.54
1:x:239:VAL:HG23	1:x:687:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:436:MET:HE1	1:x:471:MET:HE1	1.90	0.54
1:y:509:TRP:HD1	1:y:518:MET:SD	2.31	0.54
1:z:374:ILE:HD13	1:z:649:ILE:HD11	1.89	0.54
1:z:509:TRP:HD1	1:z:518:MET:SD	2.31	0.54
1:7:436:MET:HE1	1:7:471:MET:HE1	1.89	0.54
1:7:509:TRP:HD1	1:7:518:MET:SD	2.31	0.54
1:8:239:VAL:HG23	1:8:687:LEU:HD11	1.89	0.54
1:8:436:MET:HE1	1:8:471:MET:HE1	1.89	0.54
1:A:374:ILE:HG21	1:A:649:ILE:HD11	1.88	0.54
1:C:509:TRP:HD1	1:C:518:MET:SD	2.31	0.54
1:F:374:ILE:HD13	1:F:649:ILE:HD11	1.89	0.54
1:I:342:VAL:HG22	1:I:651:ASN:HB3	1.90	0.54
1:I:506:ALA:HB1	1:I:517:LEU:HD11	1.90	0.54
1:I:509:TRP:HD1	1:I:518:MET:SD	2.31	0.54
1:K:239:VAL:HG23	1:K:687:LEU:HD11	1.89	0.54
1:M:509:TRP:HD1	1:M:518:MET:SD	2.31	0.54
1:M:525:ALA:O	1:M:573:ALA:N	2.34	0.54
1:N:374:ILE:HD13	1:N:649:ILE:HD11	1.89	0.54
1:P:239:VAL:HG23	1:P:687:LEU:HD11	1.89	0.54
1:T:528:LYS:HG2	1:T:529:GLU:N	2.22	0.54
1:V:374:ILE:HD13	1:V:649:ILE:HD11	1.89	0.54
1:W:712:GLU:HB3	1:W:724:PRO:HG3	1.89	0.54
1:Z:550:ARG:NH1	1:w:441:ASP:OD2	2.40	0.54
1:2:436:MET:HE1	1:2:471:MET:HE1	1.89	0.54
1:6:506:ALA:HB1	1:6:517:LEU:HD11	1.90	0.54
1:a:374:ILE:HD13	1:a:649:ILE:HD11	1.89	0.54
1:a:550:ARG:NH1	1:b:441:ASP:OD2	2.41	0.54
1:f:239:VAL:HG23	1:f:687:LEU:HD11	1.89	0.54
1:g:239:VAL:HG23	1:g:687:LEU:HD11	1.89	0.54
1:g:319:ASN:ND2	1:m:404:MET:SD	2.81	0.54
1:i:342:VAL:HG22	1:i:651:ASN:HB3	1.89	0.54
1:i:441:ASP:OD2	1:j:550:ARG:NH1	2.40	0.54
1:j:506:ALA:HB1	1:j:517:LEU:HD11	1.90	0.54
1:k:528:LYS:HG2	1:k:529:GLU:N	2.22	0.54
1:n:525:ALA:O	1:n:573:ALA:N	2.34	0.54
1:s:342:VAL:HG22	1:s:651:ASN:HB3	1.90	0.54
1:s:506:ALA:HB1	1:s:517:LEU:HD11	1.90	0.54
1:u:509:TRP:HD1	1:u:518:MET:SD	2.31	0.54
1:v:436:MET:HE1	1:v:471:MET:HE1	1.90	0.54
1:w:509:TRP:HD1	1:w:518:MET:SD	2.31	0.54
1:w:525:ALA:O	1:w:573:ALA:N	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:506:ALA:HB1	1:z:517:LEU:HD11	1.90	0.54
1:7:239:VAL:HG23	1:7:687:LEU:HD11	1.89	0.54
1:C:506:ALA:HB1	1:C:517:LEU:HD11	1.90	0.54
1:D:342:VAL:HG22	1:D:651:ASN:HB3	1.89	0.54
1:D:525:ALA:O	1:D:573:ALA:N	2.34	0.54
1:H:319:ASN:ND2	1:I:404:MET:SD	2.81	0.54
1:H:550:ARG:NH1	1:Y:441:ASP:OD2	2.40	0.54
1:K:509:TRP:HD1	1:K:518:MET:SD	2.31	0.54
1:M:319:ASN:ND2	1:N:404:MET:SD	2.81	0.54
1:N:509:TRP:HD1	1:N:518:MET:SD	2.31	0.54
1:O:404:MET:SD	1:4:319:ASN:ND2	2.81	0.54
1:Q:528:LYS:HG2	1:Q:529:GLU:N	2.22	0.54
1:R:350:TYR:OH	1:R:643:PRO:O	2.22	0.54
1:U:319:ASN:ND2	1:5:404:MET:SD	2.81	0.54
1:Z:374:ILE:HD13	1:Z:649:ILE:HD11	1.89	0.54
1:1:506:ALA:HB1	1:1:517:LEU:HD11	1.90	0.54
1:2:712:GLU:HB3	1:2:724:PRO:HG3	1.88	0.54
1:4:374:ILE:HG21	1:4:649:ILE:HD11	1.88	0.54
1:a:436:MET:HE1	1:a:471:MET:HE1	1.89	0.54
1:d:342:VAL:HG22	1:d:651:ASN:HB3	1.89	0.54
1:e:509:TRP:HD1	1:e:518:MET:SD	2.31	0.54
1:f:350:TYR:OH	1:f:643:PRO:O	2.22	0.54
1:j:374:ILE:HD13	1:j:649:ILE:HD11	1.89	0.54
1:k:550:ARG:NH1	1:m:441:ASP:OD2	2.41	0.54
1:l:350:TYR:OH	1:l:643:PRO:O	2.22	0.54
1:l:436:MET:HE1	1:l:471:MET:HE1	1.89	0.54
1:q:374:ILE:HG21	1:q:649:ILE:HD11	1.88	0.54
1:r:526:SER:OG	1:r:562:ASN:OD1	2.25	0.54
1:s:509:TRP:HD1	1:s:518:MET:SD	2.31	0.54
1:t:509:TRP:HD1	1:t:518:MET:SD	2.31	0.54
1:u:506:ALA:HB1	1:u:517:LEU:HD11	1.90	0.54
1:w:342:VAL:HG22	1:w:651:ASN:HB3	1.90	0.54
1:8:342:VAL:HG22	1:8:651:ASN:HB3	1.90	0.54
1:D:436:MET:HE1	1:D:471:MET:HE1	1.90	0.54
1:E:509:TRP:HD1	1:E:518:MET:SD	2.31	0.54
1:F:342:VAL:HG22	1:F:651:ASN:HB3	1.90	0.54
1:F:506:ALA:HB1	1:F:517:LEU:HD11	1.90	0.54
1:G:509:TRP:HD1	1:G:518:MET:SD	2.31	0.54
1:H:528:LYS:HG2	1:H:529:GLU:N	2.22	0.54
1:I:243:SER:HB3	1:I:245:ARG:NH1	2.22	0.54
1:J:319:ASN:ND2	1:1:404:MET:SD	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:404:MET:SD	1:3:319:ASN:ND2	2.81	0.54
1:P:526:SER:OG	1:P:562:ASN:OD1	2.25	0.54
1:S:319:ASN:ND2	1:4:404:MET:SD	2.81	0.54
1:T:319:ASN:ND2	1:U:404:MET:SD	2.81	0.54
1:T:550:ARG:NH1	1:f:441:ASP:OD2	2.41	0.54
1:V:239:VAL:HG23	1:V:687:LEU:HD11	1.89	0.54
1:X:319:ASN:ND2	1:Y:404:MET:SD	2.81	0.54
1:6:441:ASP:OD2	1:b:550:ARG:NH1	2.41	0.54
1:6:509:TRP:HD1	1:6:518:MET:SD	2.31	0.54
1:a:342:VAL:HG22	1:a:651:ASN:HB3	1.90	0.54
1:b:526:SER:OG	1:b:562:ASN:OD1	2.25	0.54
1:c:528:LYS:HG2	1:c:529:GLU:N	2.22	0.54
1:d:374:ILE:HD13	1:d:649:ILE:HD11	1.89	0.54
1:d:506:ALA:HB1	1:d:517:LEU:HD11	1.90	0.54
1:h:239:VAL:HG23	1:h:687:LEU:HD11	1.89	0.54
1:h:374:ILE:HD13	1:h:649:ILE:HD11	1.89	0.54
1:k:441:ASP:OD2	1:l:550:ARG:NH1	2.40	0.54
1:n:319:ASN:ND2	1:z:404:MET:SD	2.81	0.54
1:v:712:GLU:HB3	1:v:724:PRO:HG3	1.88	0.54
1:w:436:MET:HE1	1:w:471:MET:HE1	1.90	0.54
1:w:506:ALA:HB1	1:w:517:LEU:HD11	1.90	0.54
1:y:712:GLU:HB3	1:y:724:PRO:HG3	1.88	0.54
1:7:342:VAL:HG22	1:7:651:ASN:HB3	1.90	0.54
1:C:525:ALA:O	1:C:573:ALA:N	2.34	0.54
1:H:441:ASP:OD2	1:W:550:ARG:NH1	2.40	0.54
1:J:525:ALA:O	1:J:573:ALA:N	2.34	0.54
1:N:436:MET:HE1	1:N:471:MET:HE1	1.89	0.54
1:O:319:ASN:ND2	1:P:404:MET:SD	2.81	0.54
1:R:441:ASP:OD2	1:S:550:ARG:NH1	2.41	0.54
1:U:374:ILE:HG21	1:U:649:ILE:HD11	1.88	0.54
1:U:509:TRP:HD1	1:U:518:MET:SD	2.31	0.54
1:X:342:VAL:HG22	1:X:651:ASN:HB3	1.89	0.54
1:Y:506:ALA:HB1	1:Y:517:LEU:HD11	1.90	0.54
1:a:239:VAL:HG23	1:a:687:LEU:HD11	1.89	0.54
1:d:441:ASP:OD2	1:e:550:ARG:NH1	2.40	0.54
1:f:436:MET:HE1	1:f:471:MET:HE1	1.89	0.54
1:h:436:MET:HE1	1:h:471:MET:HE1	1.89	0.54
1:i:436:MET:HE1	1:i:471:MET:HE1	1.90	0.54
1:i:506:ALA:HB1	1:i:517:LEU:HD11	1.90	0.54
1:i:509:TRP:HD1	1:i:518:MET:SD	2.31	0.54
1:i:525:ALA:O	1:i:573:ALA:N	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:319:ASN:ND2	1:s:404:MET:SD	2.81	0.54
1:m:506:ALA:HB1	1:m:517:LEU:HD11	1.90	0.54
1:o:319:ASN:ND2	1:v:404:MET:SD	2.81	0.54
1:p:404:MET:SD	1:u:319:ASN:ND2	2.81	0.54
1:s:243:SER:HB3	1:s:245:ARG:NH1	2.22	0.54
1:t:404:MET:SD	1:x:319:ASN:ND2	2.81	0.54
1:t:525:ALA:O	1:t:573:ALA:N	2.34	0.54
1:E:243:SER:HB3	1:E:245:ARG:NH1	2.22	0.54
1:J:436:MET:HE1	1:J:471:MET:HE1	1.89	0.54
1:K:550:ARG:NH1	1:8:441:ASP:OD2	2.41	0.54
1:K:712:GLU:HB3	1:K:724:PRO:HG3	1.88	0.54
1:L:319:ASN:ND2	1:2:404:MET:SD	2.81	0.54
1:L:374:ILE:HD13	1:L:649:ILE:HD11	1.89	0.54
1:M:337:ASN:ND2	1:M:340:SER:OG	2.41	0.54
1:M:436:MET:HE1	1:M:471:MET:HE1	1.89	0.54
1:Q:319:ASN:ND2	1:S:404:MET:SD	2.81	0.54
1:R:436:MET:HE1	1:R:471:MET:HE1	1.89	0.54
1:R:506:ALA:HB1	1:R:517:LEU:HD11	1.90	0.54
1:S:441:ASP:OD2	1:U:550:ARG:NH1	2.41	0.54
1:S:712:GLU:HB3	1:S:724:PRO:HG3	1.89	0.54
1:V:436:MET:HE1	1:V:471:MET:HE1	1.90	0.54
1:W:350:TYR:OH	1:W:643:PRO:O	2.22	0.54
1:X:404:MET:SD	1:6:319:ASN:ND2	2.81	0.54
1:Z:509:TRP:HD1	1:Z:518:MET:SD	2.31	0.54
1:Z:712:GLU:HB3	1:Z:724:PRO:HG3	1.88	0.54
1:3:506:ALA:HB1	1:3:517:LEU:HD11	1.90	0.54
1:5:525:ALA:O	1:5:573:ALA:N	2.34	0.54
1:6:436:MET:HE1	1:6:471:MET:HE1	1.89	0.54
1:f:506:ALA:HB1	1:f:517:LEU:HD11	1.90	0.54
1:g:342:VAL:HG22	1:g:651:ASN:HB3	1.90	0.54
1:m:342:VAL:HG22	1:m:651:ASN:HB3	1.90	0.54
1:q:239:VAL:HG23	1:q:687:LEU:HD11	1.89	0.54
1:q:623:PRO:HD3	1:s:478:TYR:CE2	2.43	0.54
1:r:509:TRP:HD1	1:r:518:MET:SD	2.31	0.54
1:t:436:MET:HE1	1:t:471:MET:HE1	1.89	0.54
1:v:239:VAL:HG23	1:v:687:LEU:HD11	1.89	0.54
1:v:506:ALA:HB1	1:v:517:LEU:HD11	1.90	0.54
1:w:550:ARG:NH1	1:x:441:ASP:OD2	2.40	0.54
1:y:506:ALA:HB1	1:y:517:LEU:HD11	1.90	0.54
1:A:623:PRO:HD3	1:I:478:TYR:CE2	2.43	0.54
1:B:404:MET:SD	1:C:319:ASN:ND2	2.81	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:506:ALA:HB1	1:B:517:LEU:HD11	1.90	0.54
1:B:712:GLU:HB3	1:B:724:PRO:HG3	1.88	0.54
1:E:550:ARG:NH1	1:F:441:ASP:OD2	2.40	0.54
1:J:374:ILE:HD13	1:J:649:ILE:HD11	1.89	0.54
1:N:342:VAL:HG22	1:N:651:ASN:HB3	1.89	0.54
1:P:337:ASN:ND2	1:P:340:SER:OG	2.41	0.54
1:R:247:TRP:CZ2	1:R:317:LEU:HD11	2.44	0.54
1:T:441:ASP:OD2	1:4:550:ARG:NH1	2.41	0.54
1:U:506:ALA:HB1	1:U:517:LEU:HD11	1.90	0.54
1:V:509:TRP:HD1	1:V:518:MET:SD	2.31	0.54
1:Y:342:VAL:HG22	1:Y:651:ASN:HB3	1.90	0.54
1:2:506:ALA:HB1	1:2:517:LEU:HD11	1.90	0.54
1:3:441:ASP:OD2	1:i:550:ARG:NH1	2.40	0.54
1:3:712:GLU:HB3	1:3:724:PRO:HG3	1.88	0.54
1:b:337:ASN:ND2	1:b:340:SER:OG	2.41	0.54
1:e:243:SER:HB3	1:e:245:ARG:NH1	2.22	0.54
1:i:374:ILE:HD13	1:i:649:ILE:HD11	1.89	0.54
1:j:528:LYS:HG2	1:j:529:GLU:N	2.22	0.54
1:k:712:GLU:HB3	1:k:724:PRO:HG3	1.88	0.54
1:l:441:ASP:OD2	1:m:550:ARG:NH1	2.41	0.54
1:n:342:VAL:HG22	1:n:651:ASN:HB3	1.90	0.54
1:n:436:MET:HE1	1:n:471:MET:HE1	1.90	0.54
1:o:374:ILE:HD13	1:o:649:ILE:HD11	1.89	0.54
1:o:404:MET:SD	1:y:319:ASN:ND2	2.81	0.54
1:r:528:LYS:HG2	1:r:529:GLU:N	2.22	0.54
1:t:337:ASN:ND2	1:t:340:SER:OG	2.41	0.54
1:u:525:ALA:O	1:u:573:ALA:N	2.34	0.54
1:w:374:ILE:HD13	1:w:649:ILE:HD11	1.89	0.54
1:x:506:ALA:HB1	1:x:517:LEU:HD11	1.90	0.54
1:A:239:VAL:HG23	1:A:687:LEU:HD11	1.89	0.53
1:B:509:TRP:HD1	1:B:518:MET:SD	2.31	0.53
1:B:623:PRO:HD3	1:L:478:TYR:CE2	2.44	0.53
1:C:404:MET:SD	1:D:319:ASN:ND2	2.81	0.53
1:E:478:TYR:CE2	1:Q:623:PRO:HD3	2.44	0.53
1:F:243:SER:HB3	1:F:245:ARG:NH1	2.22	0.53
1:J:342:VAL:HG22	1:J:651:ASN:HB3	1.90	0.53
1:K:319:ASN:ND2	1:L:404:MET:SD	2.81	0.53
1:K:404:MET:SD	1:7:319:ASN:ND2	2.81	0.53
1:K:506:ALA:HB1	1:K:517:LEU:HD11	1.90	0.53
1:M:374:ILE:HD13	1:M:649:ILE:HD11	1.89	0.53
1:N:247:TRP:CZ2	1:N:317:LEU:HD11	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:243:SER:HB3	1:Q:245:ARG:NH1	2.22	0.53
1:T:404:MET:SD	1:c:319:ASN:ND2	2.81	0.53
1:T:506:ALA:HB1	1:T:517:LEU:HD11	1.90	0.53
1:T:509:TRP:HD1	1:T:518:MET:SD	2.31	0.53
1:V:506:ALA:HB1	1:V:517:LEU:HD11	1.90	0.53
1:W:478:TYR:CE2	1:Y:623:PRO:HD3	2.43	0.53
1:X:506:ALA:HB1	1:X:517:LEU:HD11	1.89	0.53
1:Y:712:GLU:HB3	1:Y:724:PRO:HG3	1.89	0.53
1:Z:478:TYR:CE2	1:x:623:PRO:HD3	2.44	0.53
1:Z:528:LYS:HG2	1:Z:529:GLU:N	2.22	0.53
1:1:478:TYR:CE2	1:8:623:PRO:HD3	2.44	0.53
1:2:239:VAL:HG23	1:2:687:LEU:HD11	1.89	0.53
1:2:509:TRP:HD1	1:2:518:MET:SD	2.31	0.53
1:3:337:ASN:ND2	1:3:340:SER:OG	2.41	0.53
1:3:623:PRO:HD3	1:j:478:TYR:CE2	2.44	0.53
1:4:506:ALA:HB1	1:4:517:LEU:HD11	1.90	0.53
1:4:509:TRP:HD1	1:4:518:MET:SD	2.31	0.53
1:5:247:TRP:CZ2	1:5:317:LEU:HD11	2.44	0.53
1:5:319:ASN:ND2	1:b:404:MET:SD	2.81	0.53
1:5:506:ALA:HB1	1:5:517:LEU:HD11	1.89	0.53
1:6:247:TRP:CZ2	1:6:317:LEU:HD11	2.44	0.53
1:6:342:VAL:HG22	1:6:651:ASN:HB3	1.89	0.53
1:6:478:TYR:CE2	1:b:623:PRO:HD3	2.43	0.53
1:c:243:SER:HB3	1:c:245:ARG:NH1	2.22	0.53
1:f:247:TRP:CZ2	1:f:317:LEU:HD11	2.44	0.53
1:g:436:MET:HE1	1:g:471:MET:HE1	1.89	0.53
1:g:506:ALA:HB1	1:g:517:LEU:HD11	1.90	0.53
1:h:509:TRP:HD1	1:h:518:MET:SD	2.31	0.53
1:j:247:TRP:CZ2	1:j:317:LEU:HD11	2.43	0.53
1:j:509:TRP:HD1	1:j:518:MET:SD	2.31	0.53
1:j:712:GLU:HB3	1:j:724:PRO:HG3	1.88	0.53
1:m:509:TRP:HD1	1:m:518:MET:SD	2.31	0.53
1:n:374:ILE:HD13	1:n:649:ILE:HD11	1.89	0.53
1:p:506:ALA:HB1	1:p:517:LEU:HD11	1.89	0.53
1:p:509:TRP:HD1	1:p:518:MET:SD	2.31	0.53
1:p:712:GLU:HB3	1:p:724:PRO:HG3	1.88	0.53
1:v:342:VAL:HG22	1:v:651:ASN:HB3	1.89	0.53
1:x:337:ASN:ND2	1:x:340:SER:OG	2.41	0.53
1:x:509:TRP:HD1	1:x:518:MET:SD	2.31	0.53
1:x:712:GLU:HB3	1:x:724:PRO:HG3	1.88	0.53
1:y:404:MET:SD	1:8:319:ASN:ND2	2.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:550:ARG:NH1	1:7:441:ASP:OD2	2.41	0.53
1:z:478:TYR:CE2	1:7:623:PRO:HD3	2.44	0.53
1:A:337:ASN:ND2	1:A:340:SER:OG	2.41	0.53
1:A:404:MET:SD	1:B:319:ASN:ND2	2.81	0.53
1:E:342:VAL:HG22	1:E:651:ASN:HB3	1.89	0.53
1:F:436:MET:HE1	1:F:471:MET:HE1	1.90	0.53
1:G:506:ALA:HB1	1:G:517:LEU:HD11	1.90	0.53
1:G:528:LYS:HG2	1:G:529:GLU:N	2.22	0.53
1:H:342:VAL:HG22	1:H:651:ASN:HB3	1.90	0.53
1:H:478:TYR:CE2	1:W:623:PRO:HD3	2.44	0.53
1:L:247:TRP:CZ2	1:L:317:LEU:HD11	2.44	0.53
1:N:337:ASN:ND2	1:N:340:SER:OG	2.41	0.53
1:N:563:GLU:OE2	1:N:613:TYR:OH	2.24	0.53
1:O:247:TRP:CZ2	1:O:317:LEU:HD11	2.44	0.53
1:O:525:ALA:O	1:O:573:ALA:N	2.34	0.53
1:O:623:PRO:HD3	1:h:478:TYR:CE2	2.44	0.53
1:S:506:ALA:HB1	1:S:517:LEU:HD11	1.90	0.53
1:T:712:GLU:HB3	1:T:724:PRO:HG3	1.89	0.53
1:V:404:MET:SD	1:W:319:ASN:ND2	2.81	0.53
1:V:478:TYR:CE2	1:5:623:PRO:HD3	2.44	0.53
1:W:441:ASP:OD2	1:Y:550:ARG:NH1	2.41	0.53
1:X:247:TRP:CZ2	1:X:317:LEU:HD11	2.44	0.53
1:X:436:MET:HE1	1:X:471:MET:HE1	1.89	0.53
1:X:550:ARG:NH1	1:5:441:ASP:OD2	2.41	0.53
1:Y:509:TRP:HD1	1:Y:518:MET:SD	2.31	0.53
1:Z:247:TRP:CZ2	1:Z:317:LEU:HD11	2.43	0.53
1:2:342:VAL:HG22	1:2:651:ASN:HB3	1.90	0.53
1:2:528:LYS:HG2	1:2:529:GLU:N	2.22	0.53
1:3:404:MET:SD	1:m:319:ASN:ND2	2.82	0.53
1:4:478:TYR:CE2	1:f:623:PRO:HD3	2.43	0.53
1:a:319:ASN:ND2	1:u:404:MET:SD	2.81	0.53
1:b:525:ALA:O	1:b:573:ALA:N	2.34	0.53
1:c:623:PRO:HD3	1:e:478:TYR:CE2	2.44	0.53
1:e:436:MET:HE1	1:e:471:MET:HE1	1.90	0.53
1:g:247:TRP:CZ2	1:g:317:LEU:HD11	2.44	0.53
1:h:506:ALA:HB1	1:h:517:LEU:HD11	1.90	0.53
1:k:342:VAL:HG22	1:k:651:ASN:HB3	1.90	0.53
1:k:478:TYR:CE2	1:l:623:PRO:HD3	2.44	0.53
1:l:478:TYR:CE2	1:m:623:PRO:HD3	2.43	0.53
1:o:247:TRP:CZ2	1:o:317:LEU:HD11	2.44	0.53
1:o:478:TYR:CE2	1:p:623:PRO:HD3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:337:ASN:ND2	1:q:340:SER:OG	2.41	0.53
1:t:478:TYR:CE2	1:u:623:PRO:HD3	2.44	0.53
1:v:509:TRP:HD1	1:v:518:MET:SD	2.31	0.53
1:7:337:ASN:ND2	1:7:340:SER:OG	2.41	0.53
1:8:526:SER:OG	1:8:562:ASN:OD1	2.25	0.53
1:A:319:ASN:ND2	1:E:404:MET:SD	2.81	0.53
1:A:436:MET:HE1	1:A:471:MET:HE1	1.89	0.53
1:C:478:TYR:CE2	1:2:623:PRO:HD3	2.43	0.53
1:D:239:VAL:HG23	1:D:687:LEU:HD11	1.89	0.53
1:D:623:PRO:HD3	1:P:478:TYR:CE2	2.44	0.53
1:E:436:MET:HE1	1:E:471:MET:HE1	1.89	0.53
1:F:319:ASN:ND2	1:G:404:MET:SD	2.81	0.53
1:G:319:ASN:ND2	1:W:404:MET:SD	2.81	0.53
1:H:712:GLU:HB3	1:H:724:PRO:HG3	1.89	0.53
1:J:509:TRP:HD1	1:J:518:MET:SD	2.31	0.53
1:L:337:ASN:ND2	1:L:340:SER:OG	2.41	0.53
1:L:342:VAL:HG22	1:L:651:ASN:HB3	1.90	0.53
1:O:506:ALA:HB1	1:O:517:LEU:HD11	1.90	0.53
1:P:247:TRP:CZ2	1:P:317:LEU:HD11	2.44	0.53
1:P:525:ALA:O	1:P:573:ALA:N	2.34	0.53
1:R:623:PRO:HD3	1:U:478:TYR:CE2	2.43	0.53
1:S:509:TRP:HD1	1:S:518:MET:SD	2.31	0.53
1:W:342:VAL:HG22	1:W:651:ASN:HB3	1.90	0.53
1:Y:319:ASN:ND2	1:x:404:MET:SD	2.82	0.53
1:Y:337:ASN:ND2	1:Y:340:SER:OG	2.41	0.53
1:Z:623:PRO:HD3	1:w:478:TYR:CE2	2.44	0.53
1:2:243:SER:HB3	1:2:245:ARG:NH1	2.22	0.53
1:3:374:ILE:HD13	1:3:649:ILE:HD11	1.89	0.53
1:6:337:ASN:ND2	1:6:340:SER:OG	2.41	0.53
1:d:319:ASN:ND2	1:r:404:MET:SD	2.81	0.53
1:d:436:MET:HE1	1:d:471:MET:HE1	1.90	0.53
1:e:342:VAL:HG22	1:e:651:ASN:HB3	1.90	0.53
1:e:526:SER:OG	1:e:562:ASN:OD1	2.25	0.53
1:f:509:TRP:HD1	1:f:518:MET:SD	2.31	0.53
1:h:404:MET:SD	1:l:319:ASN:ND2	2.81	0.53
1:i:319:ASN:ND2	1:7:404:MET:SD	2.81	0.53
1:l:247:TRP:CZ2	1:l:317:LEU:HD11	2.44	0.53
1:l:342:VAL:HG22	1:l:651:ASN:HB3	1.90	0.53
1:m:337:ASN:ND2	1:m:340:SER:OG	2.41	0.53
1:n:550:ARG:NH1	1:p:441:ASP:OD2	2.41	0.53
1:o:342:VAL:HG22	1:o:651:ASN:HB3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:374:ILE:HD13	1:t:649:ILE:HD11	1.89	0.53
1:u:436:MET:HE1	1:u:471:MET:HE1	1.89	0.53
1:u:478:TYR:CE2	1:v:623:PRO:HD3	2.43	0.53
1:w:319:ASN:ND2	1:8:404:MET:SD	2.81	0.53
1:7:526:SER:OG	1:7:562:ASN:OD1	2.25	0.53
1:8:337:ASN:ND2	1:8:340:SER:OG	2.41	0.53
1:A:342:VAL:HG22	1:A:651:ASN:HB3	1.89	0.53
1:B:441:ASP:OD2	1:J:550:ARG:NH1	2.41	0.53
1:C:436:MET:HE1	1:C:471:MET:HE1	1.89	0.53
1:C:623:PRO:HD3	1:M:478:TYR:CE2	2.44	0.53
1:E:526:SER:OG	1:E:562:ASN:OD1	2.25	0.53
1:F:247:TRP:CZ2	1:F:317:LEU:HD11	2.43	0.53
1:J:337:ASN:ND2	1:J:340:SER:OG	2.41	0.53
1:J:528:LYS:HG2	1:J:529:GLU:N	2.22	0.53
1:K:247:TRP:CZ2	1:K:317:LEU:HD11	2.44	0.53
1:O:441:ASP:OD2	1:g:550:ARG:NH1	2.41	0.53
1:P:436:MET:HE1	1:P:471:MET:HE1	1.89	0.53
1:Q:509:TRP:HD1	1:Q:518:MET:SD	2.31	0.53
1:R:374:ILE:HD13	1:R:649:ILE:HD11	1.89	0.53
1:U:563:GLU:OE2	1:U:613:TYR:OH	2.25	0.53
1:V:247:TRP:CZ2	1:V:317:LEU:HD11	2.44	0.53
1:W:243:SER:HB3	1:W:245:ARG:NH1	2.22	0.53
1:W:247:TRP:CZ2	1:W:317:LEU:HD11	2.44	0.53
1:3:509:TRP:HD1	1:3:518:MET:SD	2.31	0.53
1:4:337:ASN:ND2	1:4:340:SER:OG	2.41	0.53
1:6:404:MET:SD	1:t:319:ASN:ND2	2.81	0.53
1:b:247:TRP:CZ2	1:b:317:LEU:HD11	2.44	0.53
1:d:247:TRP:CZ2	1:d:317:LEU:HD11	2.43	0.53
1:e:247:TRP:CZ2	1:e:317:LEU:HD11	2.43	0.53
1:i:337:ASN:ND2	1:i:340:SER:OG	2.41	0.53
1:i:478:TYR:CE2	1:j:623:PRO:HD3	2.44	0.53
1:m:712:GLU:HB3	1:m:724:PRO:HG3	1.89	0.53
1:n:337:ASN:ND2	1:n:340:SER:OG	2.41	0.53
1:n:509:TRP:HD1	1:n:518:MET:SD	2.31	0.53
1:o:337:ASN:ND2	1:o:340:SER:OG	2.41	0.53
1:q:342:VAL:HG22	1:q:651:ASN:HB3	1.90	0.53
1:q:436:MET:HE1	1:q:471:MET:HE1	1.89	0.53
1:q:550:ARG:NH1	1:s:441:ASP:OD2	2.41	0.53
1:r:506:ALA:HB1	1:r:517:LEU:HD11	1.90	0.53
1:w:528:LYS:HG2	1:w:529:GLU:N	2.22	0.53
1:y:247:TRP:CZ2	1:y:317:LEU:HD11	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:SER:HB3	1:A:245:ARG:NH1	2.22	0.53
1:A:550:ARG:NH1	1:I:441:ASP:OD2	2.41	0.53
1:B:478:TYR:CE2	1:J:623:PRO:HD3	2.43	0.53
1:E:441:ASP:OD2	1:Q:550:ARG:NH1	2.40	0.53
1:I:319:ASN:ND2	1:J:404:MET:SD	2.81	0.53
1:P:319:ASN:ND2	1:Q:404:MET:SD	2.82	0.53
1:P:374:ILE:HD13	1:P:649:ILE:HD11	1.89	0.53
1:R:342:VAL:HG22	1:R:651:ASN:HB3	1.90	0.53
1:R:509:TRP:HD1	1:R:518:MET:SD	2.31	0.53
1:U:337:ASN:ND2	1:U:340:SER:OG	2.41	0.53
1:U:436:MET:HE1	1:U:471:MET:HE1	1.89	0.53
1:W:506:ALA:HB1	1:W:517:LEU:HD11	1.90	0.53
1:W:509:TRP:HD1	1:W:518:MET:SD	2.31	0.53
1:Z:337:ASN:ND2	1:Z:340:SER:OG	2.41	0.53
1:Z:441:ASP:OD2	1:x:550:ARG:NH1	2.40	0.53
1:3:550:ARG:NH1	1:j:441:ASP:OD2	2.40	0.53
1:6:563:GLU:OE2	1:6:613:TYR:OH	2.25	0.53
1:6:623:PRO:HD3	1:a:478:TYR:CE2	2.44	0.53
1:a:623:PRO:HD3	1:b:478:TYR:CE2	2.44	0.53
1:b:319:ASN:ND2	1:c:404:MET:SD	2.82	0.53
1:b:436:MET:HE1	1:b:471:MET:HE1	1.90	0.53
1:d:404:MET:SD	1:f:319:ASN:ND2	2.82	0.53
1:e:404:MET:SD	1:q:319:ASN:ND2	2.82	0.53
1:h:247:TRP:CZ2	1:h:317:LEU:HD11	2.44	0.53
1:i:528:LYS:HG2	1:i:529:GLU:N	2.22	0.53
1:l:337:ASN:ND2	1:l:340:SER:OG	2.41	0.53
1:l:404:MET:SD	1:r:319:ASN:ND2	2.81	0.53
1:l:506:ALA:HB1	1:l:517:LEU:HD11	1.90	0.53
1:m:350:TYR:OH	1:m:643:PRO:O	2.22	0.53
1:n:506:ALA:HB1	1:n:517:LEU:HD11	1.90	0.53
1:n:528:LYS:HG2	1:n:529:GLU:N	2.22	0.53
1:n:623:PRO:HD3	1:p:478:TYR:CE2	2.43	0.53
1:s:563:GLU:OE2	1:s:613:TYR:OH	2.25	0.53
1:t:247:TRP:CZ2	1:t:317:LEU:HD11	2.44	0.53
1:v:243:SER:HB3	1:v:245:ARG:NH1	2.22	0.53
1:x:374:ILE:HD13	1:x:649:ILE:HD11	1.89	0.53
1:y:623:PRO:HD3	1:7:478:TYR:CE2	2.44	0.53
1:7:423:HIS:HB2	1:7:638:PHE:CE1	2.44	0.53
1:7:506:ALA:HB1	1:7:517:LEU:HD11	1.90	0.53
1:8:423:HIS:HB2	1:8:638:PHE:CE1	2.44	0.53
1:C:247:TRP:CZ2	1:C:317:LEU:HD11	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:526:SER:OG	1:C:562:ASN:OD1	2.25	0.53
1:D:611:ASP:OD1	1:D:612:VAL:N	2.42	0.53
1:E:247:TRP:CZ2	1:E:317:LEU:HD11	2.44	0.53
1:F:404:MET:SD	1:R:319:ASN:ND2	2.82	0.53
1:J:506:ALA:HB1	1:J:517:LEU:HD11	1.90	0.53
1:K:623:PRO:HD3	1:8:478:TYR:CE2	2.44	0.53
1:L:423:HIS:HB2	1:L:638:PHE:CE1	2.44	0.53
1:M:247:TRP:CZ2	1:M:317:LEU:HD11	2.44	0.53
1:M:423:HIS:HB2	1:M:638:PHE:CE1	2.44	0.53
1:M:623:PRO:HD3	1:2:478:TYR:CE2	2.44	0.53
1:O:243:SER:HB3	1:O:245:ARG:NH1	2.22	0.53
1:O:550:ARG:NH1	1:h:441:ASP:OD2	2.41	0.53
1:Q:611:ASP:OD1	1:Q:612:VAL:N	2.42	0.53
1:R:478:TYR:CE2	1:S:623:PRO:HD3	2.44	0.53
1:S:247:TRP:CZ2	1:S:317:LEU:HD11	2.44	0.53
1:S:478:TYR:CE2	1:U:623:PRO:HD3	2.44	0.53
1:U:247:TRP:CZ2	1:U:317:LEU:HD11	2.44	0.53
1:U:423:HIS:HB2	1:U:638:PHE:CE1	2.44	0.53
1:U:611:ASP:OD1	1:U:612:VAL:N	2.42	0.53
1:V:342:VAL:HG22	1:V:651:ASN:HB3	1.90	0.53
1:W:337:ASN:ND2	1:W:340:SER:OG	2.41	0.53
1:X:611:ASP:OD1	1:X:612:VAL:N	2.42	0.53
1:2:247:TRP:CZ2	1:2:317:LEU:HD11	2.44	0.53
1:4:423:HIS:HB2	1:4:638:PHE:CE1	2.44	0.53
1:4:436:MET:HE1	1:4:471:MET:HE1	1.89	0.53
1:4:563:GLU:OE2	1:4:613:TYR:OH	2.25	0.53
1:4:611:ASP:OD1	1:4:612:VAL:N	2.42	0.53
1:5:509:TRP:HD1	1:5:518:MET:SD	2.31	0.53
1:a:611:ASP:OD1	1:a:612:VAL:N	2.42	0.53
1:b:374:ILE:HD13	1:b:649:ILE:HD11	1.89	0.53
1:c:247:TRP:CZ2	1:c:317:LEU:HD11	2.44	0.53
1:c:509:TRP:HD1	1:c:518:MET:SD	2.31	0.53
1:c:550:ARG:NH1	1:e:441:ASP:OD2	2.40	0.53
1:c:611:ASP:OD1	1:c:612:VAL:N	2.42	0.53
1:f:342:VAL:HG22	1:f:651:ASN:HB3	1.90	0.53
1:f:374:ILE:HD13	1:f:649:ILE:HD11	1.89	0.53
1:g:611:ASP:OD1	1:g:612:VAL:N	2.42	0.53
1:j:337:ASN:ND2	1:j:340:SER:OG	2.41	0.53
1:l:243:SER:HB3	1:l:245:ARG:NH1	2.22	0.53
1:o:423:HIS:HB2	1:o:638:PHE:CE1	2.44	0.53
1:p:319:ASN:ND2	1:q:404:MET:SD	2.81	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:528:LYS:HG2	1:p:529:GLU:N	2.22	0.53
1:u:247:TRP:CZ2	1:u:317:LEU:HD11	2.44	0.53
1:v:247:TRP:CZ2	1:v:317:LEU:HD11	2.44	0.53
1:v:528:LYS:HG2	1:v:529:GLU:N	2.22	0.53
1:w:337:ASN:ND2	1:w:340:SER:OG	2.41	0.53
1:8:506:ALA:HB1	1:8:517:LEU:HD11	1.90	0.53
1:E:423:HIS:HB2	1:E:638:PHE:CE1	2.44	0.53
1:O:509:TRP:HD1	1:O:518:MET:SD	2.31	0.53
1:Q:247:TRP:CZ2	1:Q:317:LEU:HD11	2.44	0.53
1:T:247:TRP:CZ2	1:T:317:LEU:HD11	2.44	0.53
1:T:478:TYR:CE2	1:4:623:PRO:HD3	2.44	0.53
1:T:623:PRO:HD3	1:f:478:TYR:CE2	2.44	0.53
1:U:526:SER:OG	1:U:562:ASN:OD1	2.25	0.53
1:V:441:ASP:OD2	1:5:550:ARG:NH1	2.41	0.53
1:W:611:ASP:OD1	1:W:612:VAL:N	2.42	0.53
1:X:623:PRO:HD3	1:5:478:TYR:CE2	2.44	0.53
1:1:337:ASN:ND2	1:1:340:SER:OG	2.41	0.53
1:4:247:TRP:CZ2	1:4:317:LEU:HD11	2.44	0.53
1:5:243:SER:HB3	1:5:245:ARG:NH1	2.23	0.53
1:d:611:ASP:OD1	1:d:612:VAL:N	2.42	0.53
1:e:423:HIS:HB2	1:e:638:PHE:CE1	2.44	0.53
1:e:506:ALA:HB1	1:e:517:LEU:HD11	1.90	0.53
1:g:243:SER:HB3	1:g:245:ARG:NH1	2.22	0.53
1:g:350:TYR:OH	1:g:643:PRO:O	2.22	0.53
1:h:342:VAL:HG22	1:h:651:ASN:HB3	1.90	0.53
1:k:247:TRP:CZ2	1:k:317:LEU:HD11	2.44	0.53
1:k:350:TYR:OH	1:k:643:PRO:O	2.22	0.53
1:l:239:VAL:HG23	1:l:687:LEU:HD11	1.89	0.53
1:l:509:TRP:HD1	1:l:518:MET:SD	2.31	0.53
1:l:611:ASP:OD1	1:l:612:VAL:N	2.42	0.53
1:n:404:MET:SD	1:s:319:ASN:ND2	2.81	0.53
1:p:247:TRP:CZ2	1:p:317:LEU:HD11	2.44	0.53
1:p:337:ASN:ND2	1:p:340:SER:OG	2.41	0.53
1:q:243:SER:HB3	1:q:245:ARG:NH1	2.22	0.53
1:r:441:ASP:OD2	1:s:550:ARG:NH1	2.40	0.53
1:t:423:HIS:HB2	1:t:638:PHE:CE1	2.44	0.53
1:t:623:PRO:HD3	1:v:478:TYR:CE2	2.44	0.53
1:w:247:TRP:CZ2	1:w:317:LEU:HD11	2.44	0.53
1:B:247:TRP:CZ2	1:B:317:LEU:HD11	2.44	0.53
1:B:337:ASN:ND2	1:B:340:SER:OG	2.41	0.53
1:D:337:ASN:ND2	1:D:340:SER:OG	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:423:HIS:HB2	1:D:638:PHE:CE1	2.44	0.53
1:F:337:ASN:ND2	1:F:340:SER:OG	2.41	0.53
1:F:423:HIS:HB2	1:F:638:PHE:CE1	2.44	0.53
1:F:611:ASP:OD1	1:F:612:VAL:N	2.42	0.53
1:H:247:TRP:CZ2	1:H:317:LEU:HD11	2.44	0.53
1:H:404:MET:SD	1:Z:319:ASN:ND2	2.81	0.53
1:N:423:HIS:HB2	1:N:638:PHE:CE1	2.44	0.53
1:N:478:TYR:CE2	1:P:623:PRO:HD3	2.44	0.53
1:Q:342:VAL:HG22	1:Q:651:ASN:HB3	1.90	0.53
1:Q:423:HIS:HB2	1:Q:638:PHE:CE1	2.44	0.53
1:V:611:ASP:OD1	1:V:612:VAL:N	2.42	0.53
1:V:623:PRO:HD3	1:X:478:TYR:CE2	2.43	0.53
1:4:526:SER:OG	1:4:562:ASN:OD1	2.25	0.53
1:5:337:ASN:ND2	1:5:340:SER:OG	2.41	0.53
1:a:337:ASN:ND2	1:a:340:SER:OG	2.41	0.53
1:a:423:HIS:HB2	1:a:638:PHE:CE1	2.44	0.53
1:h:611:ASP:OD1	1:h:612:VAL:N	2.42	0.53
1:j:319:ASN:ND2	1:k:404:MET:SD	2.81	0.53
1:k:623:PRO:HD3	1:m:478:TYR:CE2	2.44	0.53
1:q:247:TRP:CZ2	1:q:317:LEU:HD11	2.44	0.53
1:r:247:TRP:CZ2	1:r:317:LEU:HD11	2.44	0.53
1:r:423:HIS:HB2	1:r:638:PHE:CE1	2.44	0.53
1:s:247:TRP:CZ2	1:s:317:LEU:HD11	2.44	0.53
1:v:423:HIS:HB2	1:v:638:PHE:CE1	2.44	0.53
1:x:247:TRP:CZ2	1:x:317:LEU:HD11	2.44	0.53
1:z:337:ASN:ND2	1:z:340:SER:OG	2.41	0.53
1:A:247:TRP:CZ2	1:A:317:LEU:HD11	2.44	0.53
1:B:528:LYS:HG2	1:B:529:GLU:N	2.22	0.53
1:C:611:ASP:OD1	1:C:612:VAL:N	2.42	0.53
1:D:404:MET:SD	1:E:319:ASN:ND2	2.81	0.53
1:E:519:ASN:HB3	1:E:520:PRO:HD3	1.91	0.53
1:G:247:TRP:CZ2	1:G:317:LEU:HD11	2.44	0.53
1:G:423:HIS:HB2	1:G:638:PHE:CE1	2.44	0.53
1:G:441:ASP:OD2	1:I:550:ARG:NH1	2.40	0.53
1:H:623:PRO:HD3	1:Y:478:TYR:CE2	2.44	0.53
1:L:611:ASP:OD1	1:L:612:VAL:N	2.42	0.53
1:M:611:ASP:OD1	1:M:612:VAL:N	2.42	0.53
1:O:478:TYR:CE2	1:g:623:PRO:HD3	2.44	0.53
1:R:423:HIS:HB2	1:R:638:PHE:HE1	1.74	0.53
1:S:611:ASP:OD1	1:S:612:VAL:N	2.42	0.53
1:V:337:ASN:ND2	1:V:340:SER:OG	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:423:HIS:HB2	1:V:638:PHE:CE1	2.44	0.53
1:W:239:VAL:HG23	1:W:687:LEU:HD11	1.89	0.53
1:X:243:SER:HB3	1:X:245:ARG:NH1	2.23	0.53
1:X:337:ASN:ND2	1:X:340:SER:OG	2.41	0.53
1:X:350:TYR:OH	1:X:643:PRO:O	2.22	0.53
1:X:423:HIS:HB2	1:X:638:PHE:CE1	2.44	0.53
1:Y:350:TYR:OH	1:Y:643:PRO:O	2.22	0.53
1:1:243:SER:HB3	1:1:245:ARG:NH1	2.22	0.53
1:2:337:ASN:ND2	1:2:340:SER:OG	2.41	0.53
1:2:423:HIS:HB2	1:2:638:PHE:CE1	2.44	0.53
1:3:247:TRP:CZ2	1:3:317:LEU:HD11	2.44	0.53
1:6:423:HIS:HB2	1:6:638:PHE:CE1	2.44	0.53
1:a:404:MET:SD	1:e:319:ASN:ND2	2.81	0.53
1:a:506:ALA:HB1	1:a:517:LEU:HD11	1.89	0.53
1:c:423:HIS:HB2	1:c:638:PHE:CE1	2.44	0.53
1:d:337:ASN:ND2	1:d:340:SER:OG	2.41	0.53
1:d:423:HIS:HB2	1:d:638:PHE:CE1	2.44	0.53
1:f:423:HIS:HB2	1:f:638:PHE:HE1	1.74	0.53
1:g:337:ASN:ND2	1:g:340:SER:OG	2.41	0.53
1:g:478:TYR:CE2	1:h:623:PRO:HD3	2.43	0.53
1:h:423:HIS:HB2	1:h:638:PHE:CE1	2.44	0.53
1:i:247:TRP:CZ2	1:i:317:LEU:HD11	2.44	0.53
1:k:423:HIS:HB2	1:k:638:PHE:CE1	2.44	0.53
1:m:423:HIS:HB2	1:m:638:PHE:CE1	2.44	0.53
1:n:247:TRP:CZ2	1:n:317:LEU:HD11	2.44	0.53
1:u:611:ASP:OD1	1:u:612:VAL:N	2.42	0.53
1:y:528:LYS:HG2	1:y:529:GLU:N	2.22	0.53
1:z:243:SER:HB3	1:z:245:ARG:NH1	2.22	0.53
1:z:247:TRP:CZ2	1:z:317:LEU:HD11	2.44	0.53
1:B:423:HIS:HB2	1:B:638:PHE:CE1	2.44	0.53
1:E:506:ALA:HB1	1:E:517:LEU:HD11	1.90	0.53
1:F:526:SER:OG	1:F:562:ASN:OD1	2.25	0.53
1:G:337:ASN:ND2	1:G:340:SER:OG	2.41	0.53
1:G:611:ASP:OD1	1:G:612:VAL:N	2.42	0.53
1:H:243:SER:HB3	1:H:245:ARG:NH1	2.22	0.53
1:H:350:TYR:OH	1:H:643:PRO:O	2.22	0.53
1:H:423:HIS:HB2	1:H:638:PHE:CE1	2.44	0.53
1:I:247:TRP:CZ2	1:I:317:LEU:HD11	2.44	0.53
1:J:247:TRP:CZ2	1:J:317:LEU:HD11	2.44	0.53
1:J:478:TYR:CE2	1:L:623:PRO:HD3	2.44	0.53
1:J:611:ASP:OD1	1:J:612:VAL:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:528:LYS:HG2	1:K:529:GLU:N	2.22	0.53
1:L:239:VAL:HG23	1:L:687:LEU:HD11	1.89	0.53
1:N:519:ASN:HB3	1:N:520:PRO:HD3	1.92	0.53
1:O:337:ASN:ND2	1:O:340:SER:OG	2.41	0.53
1:Q:423:HIS:HB2	1:Q:638:PHE:HE1	1.74	0.53
1:R:423:HIS:HB2	1:R:638:PHE:CE1	2.44	0.53
1:R:519:ASN:HB3	1:R:520:PRO:HD3	1.91	0.53
1:T:611:ASP:OD1	1:T:612:VAL:N	2.42	0.53
1:Y:423:HIS:HB2	1:Y:638:PHE:CE1	2.44	0.53
1:Z:404:MET:SD	1:1:319:ASN:ND2	2.82	0.53
1:1:247:TRP:CZ2	1:1:317:LEU:HD11	2.44	0.53
1:3:423:HIS:HB2	1:3:638:PHE:CE1	2.44	0.53
1:6:519:ASN:HB3	1:6:520:PRO:HD3	1.91	0.53
1:c:342:VAL:HG22	1:c:651:ASN:HB3	1.90	0.53
1:c:423:HIS:HB2	1:c:638:PHE:HE1	1.74	0.53
1:c:478:TYR:CE2	1:d:623:PRO:HD3	2.44	0.53
1:d:526:SER:OG	1:d:562:ASN:OD1	2.25	0.53
1:e:519:ASN:HB3	1:e:520:PRO:HD3	1.91	0.53
1:f:423:HIS:HB2	1:f:638:PHE:CE1	2.44	0.53
1:f:519:ASN:HB3	1:f:520:PRO:HD3	1.91	0.53
1:g:423:HIS:HB2	1:g:638:PHE:CE1	2.44	0.53
1:i:519:ASN:HB3	1:i:520:PRO:HD3	1.91	0.53
1:n:611:ASP:OD1	1:n:612:VAL:N	2.42	0.53
1:o:611:ASP:OD1	1:o:612:VAL:N	2.42	0.53
1:q:423:HIS:HB2	1:q:638:PHE:CE1	2.44	0.53
1:r:243:SER:HB3	1:r:245:ARG:NH1	2.22	0.53
1:r:337:ASN:ND2	1:r:340:SER:OG	2.41	0.53
1:r:478:TYR:CE2	1:s:623:PRO:HD3	2.44	0.53
1:r:611:ASP:OD1	1:r:612:VAL:N	2.42	0.53
1:t:611:ASP:OD1	1:t:612:VAL:N	2.42	0.53
1:u:337:ASN:ND2	1:u:340:SER:OG	2.41	0.53
1:v:337:ASN:ND2	1:v:340:SER:OG	2.41	0.53
1:w:519:ASN:HB3	1:w:520:PRO:HD3	1.91	0.53
1:y:243:SER:HB3	1:y:245:ARG:NH1	2.22	0.53
1:A:387:GLN:NE2	1:B:709:ASN:OD1	2.42	0.52
1:A:423:HIS:HB2	1:A:638:PHE:CE1	2.44	0.52
1:C:337:ASN:ND2	1:C:340:SER:OG	2.41	0.52
1:C:550:ARG:NH1	1:M:441:ASP:OD2	2.40	0.52
1:D:506:ALA:HB1	1:D:517:LEU:HD11	1.90	0.52
1:H:611:ASP:OD1	1:H:612:VAL:N	2.42	0.52
1:K:243:SER:HB3	1:K:245:ARG:NH1	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:423:HIS:HB2	1:O:638:PHE:HE1	1.74	0.52
1:P:611:ASP:OD1	1:P:612:VAL:N	2.42	0.52
1:Q:337:ASN:ND2	1:Q:340:SER:OG	2.41	0.52
1:Q:563:GLU:OE2	1:Q:613:TYR:OH	2.24	0.52
1:S:519:ASN:HB3	1:S:520:PRO:HD3	1.91	0.52
1:S:525:ALA:O	1:S:573:ALA:N	2.34	0.52
1:T:337:ASN:ND2	1:T:340:SER:OG	2.41	0.52
1:U:423:HIS:HB2	1:U:638:PHE:HE1	1.74	0.52
1:W:423:HIS:HB2	1:W:638:PHE:HE1	1.74	0.52
1:W:519:ASN:HB3	1:W:520:PRO:HD3	1.91	0.52
1:Z:519:ASN:HB3	1:Z:520:PRO:HD3	1.91	0.52
1:1:423:HIS:HB2	1:1:638:PHE:CE1	2.44	0.52
1:2:319:ASN:ND2	1:i:404:MET:SD	2.82	0.52
1:3:478:TYR:CE2	1:i:623:PRO:HD3	2.44	0.52
1:4:423:HIS:HB2	1:4:638:PHE:HE1	1.74	0.52
1:5:423:HIS:HB2	1:5:638:PHE:HE1	1.74	0.52
1:c:337:ASN:ND2	1:c:340:SER:OG	2.41	0.52
1:h:337:ASN:ND2	1:h:340:SER:OG	2.41	0.52
1:j:404:MET:SD	1:z:319:ASN:ND2	2.82	0.52
1:j:519:ASN:HB3	1:j:520:PRO:HD3	1.91	0.52
1:k:337:ASN:ND2	1:k:340:SER:OG	2.41	0.52
1:l:423:HIS:HB2	1:l:638:PHE:HE1	1.74	0.52
1:l:519:ASN:HB3	1:l:520:PRO:HD3	1.91	0.52
1:n:478:TYR:CE2	1:o:623:PRO:HD3	2.44	0.52
1:p:423:HIS:HB2	1:p:638:PHE:CE1	2.44	0.52
1:q:478:TYR:CE2	1:r:623:PRO:HD3	2.44	0.52
1:x:423:HIS:HB2	1:x:638:PHE:CE1	2.44	0.52
1:z:423:HIS:HB2	1:z:638:PHE:CE1	2.44	0.52
1:7:525:ALA:O	1:7:573:ALA:N	2.34	0.52
1:A:478:TYR:CE2	1:G:623:PRO:HD3	2.44	0.52
1:C:423:HIS:HB2	1:C:638:PHE:HE1	1.74	0.52
1:E:337:ASN:ND2	1:E:340:SER:OG	2.41	0.52
1:F:519:ASN:HB3	1:F:520:PRO:HD3	1.91	0.52
1:F:623:PRO:HD3	1:Q:478:TYR:CE2	2.44	0.52
1:G:243:SER:HB3	1:G:245:ARG:NH1	2.22	0.52
1:G:478:TYR:CE2	1:I:623:PRO:HD3	2.44	0.52
1:H:337:ASN:ND2	1:H:340:SER:OG	2.41	0.52
1:K:478:TYR:CE2	1:1:623:PRO:HD3	2.43	0.52
1:L:506:ALA:HB1	1:L:517:LEU:HD11	1.90	0.52
1:P:243:SER:HB3	1:P:245:ARG:NH1	2.22	0.52
1:P:506:ALA:HB1	1:P:517:LEU:HD11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:337:ASN:ND2	1:R:340:SER:OG	2.41	0.52
1:T:519:ASN:HB3	1:T:520:PRO:HD3	1.91	0.52
1:W:423:HIS:HB2	1:W:638:PHE:CE1	2.44	0.52
1:Z:243:SER:HB3	1:Z:245:ARG:NH1	2.22	0.52
1:Z:423:HIS:HB2	1:Z:638:PHE:HE1	1.74	0.52
1:1:611:ASP:OD1	1:1:612:VAL:N	2.42	0.52
1:2:423:HIS:HB2	1:2:638:PHE:HE1	1.74	0.52
1:b:243:SER:HB3	1:b:245:ARG:NH1	2.22	0.52
1:b:611:ASP:OD1	1:b:612:VAL:N	2.42	0.52
1:d:519:ASN:HB3	1:d:520:PRO:HD3	1.91	0.52
1:d:528:LYS:HG2	1:d:529:GLU:N	2.22	0.52
1:e:337:ASN:ND2	1:e:340:SER:OG	2.41	0.52
1:j:423:HIS:HB2	1:j:638:PHE:HE1	1.74	0.52
1:k:243:SER:HB3	1:k:245:ARG:NH1	2.22	0.52
1:k:611:ASP:OD1	1:k:612:VAL:N	2.42	0.52
1:l:423:HIS:HB2	1:l:638:PHE:CE1	2.44	0.52
1:n:423:HIS:HB2	1:n:638:PHE:CE1	2.44	0.52
1:o:239:VAL:HG23	1:o:687:LEU:HD11	1.89	0.52
1:p:243:SER:HB3	1:p:245:ARG:NH1	2.23	0.52
1:s:423:HIS:HB2	1:s:638:PHE:CE1	2.44	0.52
1:t:441:ASP:OD2	1:u:550:ARG:NH1	2.41	0.52
1:v:423:HIS:HB2	1:v:638:PHE:HE1	1.74	0.52
1:v:526:SER:OG	1:v:562:ASN:OD1	2.25	0.52
1:z:611:ASP:OD1	1:z:612:VAL:N	2.42	0.52
1:8:243:SER:HB3	1:8:245:ARG:NH1	2.22	0.52
1:B:423:HIS:HB2	1:B:638:PHE:HE1	1.74	0.52
1:E:423:HIS:HB2	1:E:638:PHE:HE1	1.75	0.52
1:G:519:ASN:HB3	1:G:520:PRO:HD3	1.91	0.52
1:I:423:HIS:HB2	1:I:638:PHE:CE1	2.44	0.52
1:J:423:HIS:HB2	1:J:638:PHE:CE1	2.44	0.52
1:J:423:HIS:HB2	1:J:638:PHE:HE1	1.74	0.52
1:M:350:TYR:OH	1:M:643:PRO:O	2.22	0.52
1:M:423:HIS:HB2	1:M:638:PHE:HE1	1.74	0.52
1:P:418:GLU:OE2	1:P:641:LYS:N	2.43	0.52
1:R:550:ARG:NH1	1:U:441:ASP:OD2	2.41	0.52
1:S:337:ASN:ND2	1:S:340:SER:OG	2.41	0.52
1:4:441:ASP:OD2	1:f:550:ARG:NH1	2.41	0.52
1:b:418:GLU:OE2	1:b:641:LYS:N	2.43	0.52
1:c:563:GLU:OE2	1:c:613:TYR:OH	2.24	0.52
1:e:423:HIS:HB2	1:e:638:PHE:HE1	1.74	0.52
1:f:611:ASP:OD1	1:f:612:VAL:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:423:HIS:HB2	1:g:638:PHE:HE1	1.74	0.52
1:j:243:SER:HB3	1:j:245:ARG:NH1	2.22	0.52
1:m:247:TRP:CZ2	1:m:317:LEU:HD11	2.44	0.52
1:n:423:HIS:HB2	1:n:638:PHE:HE1	1.74	0.52
1:o:506:ALA:HB1	1:o:517:LEU:HD11	1.89	0.52
1:t:423:HIS:HB2	1:t:638:PHE:HE1	1.74	0.52
1:u:423:HIS:HB2	1:u:638:PHE:HE1	1.74	0.52
1:w:423:HIS:HB2	1:w:638:PHE:CE1	2.44	0.52
1:w:623:PRO:HD3	1:x:478:TYR:CE2	2.44	0.52
1:y:337:ASN:ND2	1:y:340:SER:OG	2.41	0.52
1:y:478:TYR:CE2	1:z:623:PRO:HD3	2.43	0.52
1:B:243:SER:HB3	1:B:245:ARG:NH1	2.22	0.52
1:D:247:TRP:CZ2	1:D:317:LEU:HD11	2.44	0.52
1:F:528:LYS:HG2	1:F:529:GLU:N	2.22	0.52
1:I:337:ASN:ND2	1:I:340:SER:OG	2.42	0.52
1:K:337:ASN:ND2	1:K:340:SER:OG	2.41	0.52
1:L:519:ASN:HB3	1:L:520:PRO:HD3	1.91	0.52
1:M:342:VAL:HG22	1:M:651:ASN:HB3	1.89	0.52
1:P:519:ASN:HB3	1:P:520:PRO:HD3	1.91	0.52
1:R:611:ASP:OD1	1:R:612:VAL:N	2.42	0.52
1:T:525:ALA:O	1:T:573:ALA:N	2.34	0.52
1:V:423:HIS:HB2	1:V:638:PHE:HE1	1.74	0.52
1:X:423:HIS:HB2	1:X:638:PHE:HE1	1.74	0.52
1:Y:247:TRP:CZ2	1:Y:317:LEU:HD11	2.44	0.52
1:b:506:ALA:HB1	1:b:517:LEU:HD11	1.90	0.52
1:b:519:ASN:HB3	1:b:520:PRO:HD3	1.91	0.52
1:f:337:ASN:ND2	1:f:340:SER:OG	2.41	0.52
1:h:423:HIS:HB2	1:h:638:PHE:HE1	1.74	0.52
1:i:423:HIS:HB2	1:i:638:PHE:HE1	1.74	0.52
1:o:519:ASN:HB3	1:o:520:PRO:HD3	1.91	0.52
1:p:423:HIS:HB2	1:p:638:PHE:HE1	1.74	0.52
1:p:709:ASN:OD1	1:q:387:GLN:NE2	2.43	0.52
1:s:337:ASN:ND2	1:s:340:SER:OG	2.41	0.52
1:t:526:SER:OG	1:t:562:ASN:OD1	2.25	0.52
1:v:319:ASN:ND2	1:w:404:MET:SD	2.82	0.52
1:w:423:HIS:HB2	1:w:638:PHE:HE1	1.74	0.52
1:y:611:ASP:OD1	1:y:612:VAL:N	2.42	0.52
1:7:243:SER:HB3	1:7:245:ARG:NH1	2.22	0.52
1:K:423:HIS:HB2	1:K:638:PHE:CE1	2.44	0.52
1:K:611:ASP:OD1	1:K:612:VAL:N	2.42	0.52
1:K:709:ASN:OD1	1:L:387:GLN:NE2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:243:SER:HB3	1:N:245:ARG:NH1	2.22	0.52
1:N:441:ASP:OD2	1:P:550:ARG:NH1	2.43	0.52
1:O:387:GLN:NE2	1:4:709:ASN:OD1	2.43	0.52
1:O:519:ASN:HB3	1:O:520:PRO:HD3	1.91	0.52
1:P:423:HIS:HB2	1:P:638:PHE:HE1	1.74	0.52
1:U:519:ASN:HB3	1:U:520:PRO:HD3	1.91	0.52
1:U:709:ASN:OD1	1:5:387:GLN:NE2	2.43	0.52
1:V:519:ASN:HB3	1:V:520:PRO:HD3	1.91	0.52
1:Z:418:GLU:OE2	1:Z:641:LYS:N	2.43	0.52
1:Z:611:ASP:OD1	1:Z:612:VAL:N	2.42	0.52
1:2:526:SER:OG	1:2:562:ASN:OD1	2.25	0.52
1:4:519:ASN:HB3	1:4:520:PRO:HD3	1.91	0.52
1:5:342:VAL:HG22	1:5:651:ASN:HB3	1.90	0.52
1:6:387:GLN:NE2	1:t:709:ASN:OD1	2.43	0.52
1:a:247:TRP:CZ2	1:a:317:LEU:HD11	2.44	0.52
1:b:423:HIS:HB2	1:b:638:PHE:HE1	1.74	0.52
1:d:478:TYR:CE2	1:e:623:PRO:HD3	2.44	0.52
1:i:423:HIS:HB2	1:i:638:PHE:CE1	2.44	0.52
1:j:418:GLU:OE2	1:j:641:LYS:N	2.43	0.52
1:j:611:ASP:OD1	1:j:612:VAL:N	2.42	0.52
1:m:519:ASN:HB3	1:m:520:PRO:HD3	1.91	0.52
1:o:387:GLN:NE2	1:y:709:ASN:OD1	2.43	0.52
1:r:519:ASN:HB3	1:r:520:PRO:HD3	1.91	0.52
1:t:350:TYR:OH	1:t:643:PRO:O	2.22	0.52
1:x:611:ASP:OD1	1:x:612:VAL:N	2.42	0.52
1:y:423:HIS:HB2	1:y:638:PHE:CE1	2.44	0.52
1:7:247:TRP:CZ2	1:7:317:LEU:HD11	2.44	0.52
1:8:247:TRP:CZ2	1:8:317:LEU:HD11	2.44	0.52
1:8:525:ALA:O	1:8:573:ALA:N	2.34	0.52
1:B:526:SER:OG	1:B:562:ASN:OD1	2.25	0.52
1:C:519:ASN:HB3	1:C:520:PRO:HD3	1.91	0.52
1:E:623:PRO:HD3	1:F:478:TYR:CE2	2.44	0.52
1:G:418:GLU:OE2	1:G:641:LYS:N	2.43	0.52
1:I:709:ASN:OD1	1:J:387:GLN:NE2	2.43	0.52
1:J:519:ASN:HB3	1:J:520:PRO:HD3	1.91	0.52
1:L:418:GLU:OE2	1:L:641:LYS:N	2.43	0.52
1:M:526:SER:OG	1:M:562:ASN:OD1	2.25	0.52
1:O:342:VAL:HG22	1:O:651:ASN:HB3	1.90	0.52
1:P:350:TYR:OH	1:P:643:PRO:O	2.22	0.52
1:Q:519:ASN:HB3	1:Q:520:PRO:HD3	1.91	0.52
1:S:423:HIS:HB2	1:S:638:PHE:CE1	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:423:HIS:HB2	1:T:638:PHE:CE1	2.44	0.52
1:Y:519:ASN:HB3	1:Y:520:PRO:HD3	1.92	0.52
1:1:342:VAL:HG22	1:1:651:ASN:HB3	1.90	0.52
1:5:519:ASN:HB3	1:5:520:PRO:HD3	1.91	0.52
1:6:243:SER:HB3	1:6:245:ARG:NH1	2.22	0.52
1:c:519:ASN:HB3	1:c:520:PRO:HD3	1.91	0.52
1:i:243:SER:HB3	1:i:245:ARG:NH1	2.22	0.52
1:p:526:SER:OG	1:p:562:ASN:OD1	2.25	0.52
1:u:519:ASN:HB3	1:u:520:PRO:HD3	1.91	0.52
1:v:525:ALA:O	1:v:573:ALA:N	2.34	0.52
1:y:423:HIS:HB2	1:y:638:PHE:HE1	1.74	0.52
1:y:519:ASN:HB3	1:y:520:PRO:HD3	1.91	0.52
1:F:525:ALA:O	1:F:573:ALA:N	2.34	0.52
1:F:709:ASN:OD1	1:G:387:GLN:NE2	2.43	0.52
1:G:423:HIS:HB2	1:G:638:PHE:HE1	1.74	0.52
1:G:709:ASN:OD1	1:W:387:GLN:NE2	2.43	0.52
1:K:418:GLU:OE2	1:K:641:LYS:N	2.43	0.52
1:K:423:HIS:HB2	1:K:638:PHE:HE1	1.74	0.52
1:K:519:ASN:HB3	1:K:520:PRO:HD3	1.91	0.52
1:P:247:TRP:HZ2	1:P:317:LEU:HD11	1.75	0.52
1:P:423:HIS:HB2	1:P:638:PHE:CE1	2.44	0.52
1:Q:709:ASN:OD1	1:S:387:GLN:NE2	2.43	0.52
1:T:387:GLN:NE2	1:c:709:ASN:OD1	2.43	0.52
1:T:423:HIS:HB2	1:T:638:PHE:HE1	1.74	0.52
1:U:418:GLU:OE2	1:U:641:LYS:N	2.43	0.52
1:2:247:TRP:HZ2	1:2:317:LEU:HD11	1.75	0.52
1:2:611:ASP:OD1	1:2:612:VAL:N	2.42	0.52
1:3:611:ASP:OD1	1:3:612:VAL:N	2.42	0.52
1:4:418:GLU:OE2	1:4:641:LYS:N	2.43	0.52
1:6:418:GLU:OE2	1:6:641:LYS:N	2.43	0.52
1:b:247:TRP:HZ2	1:b:317:LEU:HD11	1.75	0.52
1:b:350:TYR:OH	1:b:643:PRO:O	2.22	0.52
1:b:423:HIS:HB2	1:b:638:PHE:CE1	2.44	0.52
1:d:709:ASN:OD1	1:r:387:GLN:NE2	2.43	0.52
1:l:387:GLN:NE2	1:r:709:ASN:OD1	2.43	0.52
1:m:418:GLU:OE2	1:m:641:LYS:N	2.43	0.52
1:n:387:GLN:NE2	1:s:709:ASN:OD1	2.43	0.52
1:n:519:ASN:HB3	1:n:520:PRO:HD3	1.91	0.52
1:o:418:GLU:OE2	1:o:641:LYS:N	2.43	0.52
1:q:506:ALA:HB1	1:q:517:LEU:HD11	1.90	0.52
1:r:418:GLU:OE2	1:r:641:LYS:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:423:HIS:HB2	1:r:638:PHE:HE1	1.74	0.52
1:t:342:VAL:HG22	1:t:651:ASN:HB3	1.90	0.52
1:v:247:TRP:HZ2	1:v:317:LEU:HD11	1.75	0.52
1:v:611:ASP:OD1	1:v:612:VAL:N	2.42	0.52
1:w:709:ASN:OD1	1:8:387:GLN:NE2	2.43	0.52
1:y:418:GLU:OE2	1:y:641:LYS:N	2.43	0.52
1:B:519:ASN:HB3	1:B:520:PRO:HD3	1.92	0.52
1:C:423:HIS:HB2	1:C:638:PHE:CE1	2.44	0.52
1:F:418:GLU:OE2	1:F:641:LYS:N	2.43	0.52
1:H:418:GLU:OE2	1:H:641:LYS:N	2.43	0.52
1:I:519:ASN:HB3	1:I:520:PRO:HD3	1.91	0.52
1:L:247:TRP:HZ2	1:L:317:LEU:HD11	1.75	0.52
1:M:331:VAL:HG11	1:N:328:ASN:HD21	1.73	0.52
1:S:423:HIS:HB2	1:S:638:PHE:HE1	1.74	0.52
1:S:709:ASN:OD1	1:4:387:GLN:NE2	2.43	0.52
1:T:519:ASN:HB2	1:f:475:GLY:HA2	1.92	0.52
1:T:709:ASN:OD1	1:U:387:GLN:NE2	2.43	0.52
1:X:709:ASN:OD1	1:Y:387:GLN:NE2	2.43	0.52
1:Y:418:GLU:OE2	1:Y:641:LYS:N	2.43	0.52
1:Z:436:MET:HE1	1:Z:471:MET:HE1	1.90	0.52
1:3:423:HIS:HB2	1:3:638:PHE:HE1	1.74	0.52
1:a:387:GLN:NE2	1:e:709:ASN:OD1	2.43	0.52
1:g:709:ASN:OD1	1:m:387:GLN:NE2	2.43	0.52
1:h:519:ASN:HB3	1:h:520:PRO:HD3	1.92	0.52
1:i:709:ASN:OD1	1:7:387:GLN:NE2	2.43	0.52
1:j:436:MET:HE1	1:j:471:MET:HE1	1.90	0.52
1:k:418:GLU:OE2	1:k:641:LYS:N	2.43	0.52
1:o:247:TRP:HZ2	1:o:317:LEU:HD11	1.75	0.52
1:p:519:ASN:HB3	1:p:520:PRO:HD3	1.91	0.52
1:w:243:SER:HB3	1:w:245:ARG:NH1	2.22	0.52
1:x:418:GLU:OE2	1:x:641:LYS:N	2.43	0.52
1:x:423:HIS:HB2	1:x:638:PHE:HE1	1.74	0.52
1:z:247:TRP:HZ2	1:z:317:LEU:HD11	1.75	0.52
1:z:342:VAL:HG22	1:z:651:ASN:HB3	1.90	0.52
1:A:506:ALA:HB1	1:A:517:LEU:HD11	1.90	0.52
1:C:441:ASP:OD2	1:2:550:ARG:NH1	2.41	0.52
1:D:519:ASN:HB3	1:D:520:PRO:HD3	1.91	0.52
1:F:519:ASN:HB2	1:Q:475:GLY:HA2	1.92	0.52
1:F:550:ARG:NH1	1:Q:441:ASP:OD2	2.40	0.52
1:M:387:GLN:NE2	1:3:709:ASN:OD1	2.43	0.52
1:M:709:ASN:OD1	1:N:387:GLN:NE2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:418:GLU:OE2	1:N:641:LYS:N	2.43	0.52
1:N:475:GLY:HA2	1:P:519:ASN:HB2	1.92	0.52
1:O:519:ASN:HB2	1:h:475:GLY:HA2	1.92	0.52
1:R:475:GLY:HA2	1:S:519:ASN:HB2	1.92	0.52
1:V:247:TRP:HZ2	1:V:317:LEU:HD11	1.75	0.52
1:V:475:GLY:HA2	1:5:519:ASN:HB2	1.92	0.52
1:X:418:GLU:OE2	1:X:641:LYS:N	2.43	0.52
1:1:247:TRP:HZ2	1:1:317:LEU:HD11	1.75	0.52
1:1:519:ASN:HB3	1:1:520:PRO:HD3	1.91	0.52
1:4:247:TRP:HZ2	1:4:317:LEU:HD11	1.75	0.52
1:a:709:ASN:OD1	1:u:387:GLN:NE2	2.43	0.52
1:c:475:GLY:HA2	1:d:519:ASN:HB2	1.92	0.52
1:d:418:GLU:OE2	1:d:641:LYS:N	2.43	0.52
1:d:525:ALA:O	1:d:573:ALA:N	2.34	0.52
1:f:243:SER:HB3	1:f:245:ARG:NH1	2.22	0.52
1:g:418:GLU:OE2	1:g:641:LYS:N	2.43	0.52
1:s:519:ASN:HB3	1:s:520:PRO:HD3	1.91	0.52
1:t:387:GLN:NE2	1:x:709:ASN:OD1	2.43	0.52
1:t:418:GLU:OE2	1:t:641:LYS:N	2.43	0.52
1:u:423:HIS:HB2	1:u:638:PHE:CE1	2.44	0.52
1:u:441:ASP:OD2	1:v:550:ARG:NH1	2.41	0.52
1:7:611:ASP:OD1	1:7:612:VAL:N	2.42	0.52
1:8:322:VAL:HG11	1:8:673:GLN:HE21	1.75	0.52
1:C:247:TRP:HZ2	1:C:317:LEU:HD11	1.75	0.52
1:C:387:GLN:NE2	1:D:709:ASN:OD1	2.43	0.52
1:J:418:GLU:OE2	1:J:641:LYS:N	2.43	0.52
1:K:519:ASN:HB2	1:8:475:GLY:HA2	1.92	0.52
1:M:418:GLU:OE2	1:M:641:LYS:N	2.43	0.52
1:M:550:ARG:NH1	1:2:441:ASP:OD2	2.41	0.52
1:R:243:SER:HB3	1:R:245:ARG:NH1	2.22	0.52
1:U:247:TRP:HZ2	1:U:317:LEU:HD11	1.75	0.52
1:Z:423:HIS:HB2	1:Z:638:PHE:CE1	2.44	0.52
1:2:709:ASN:OD1	1:i:387:GLN:NE2	2.43	0.52
1:5:247:TRP:HZ2	1:5:317:LEU:HD11	1.75	0.52
1:6:611:ASP:OD1	1:6:612:VAL:N	2.42	0.52
1:a:519:ASN:HB3	1:a:520:PRO:HD3	1.91	0.52
1:o:709:ASN:OD1	1:v:387:GLN:NE2	2.43	0.52
1:y:519:ASN:HB2	1:7:475:GLY:HA2	1.92	0.52
1:7:322:VAL:HG11	1:7:673:GLN:HE21	1.75	0.52
1:D:526:SER:OG	1:D:562:ASN:OD1	2.25	0.51
1:K:247:TRP:HZ2	1:K:317:LEU:HD11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:343:GLN:HE21	1:M:650:LYS:HE2	1.76	0.51
1:M:563:GLU:OE2	1:M:613:TYR:OH	2.25	0.51
1:N:611:ASP:OD1	1:N:612:VAL:N	2.42	0.51
1:O:247:TRP:HZ2	1:O:317:LEU:HD11	1.75	0.51
1:Q:418:GLU:OE2	1:Q:641:LYS:N	2.43	0.51
1:1:423:HIS:HB2	1:1:638:PHE:HE1	1.74	0.51
1:2:525:ALA:O	1:2:573:ALA:N	2.34	0.51
1:3:519:ASN:HB3	1:3:520:PRO:HD3	1.91	0.51
1:a:526:SER:OG	1:a:562:ASN:OD1	2.25	0.51
1:c:418:GLU:OE2	1:c:641:LYS:N	2.43	0.51
1:h:247:TRP:HZ2	1:h:317:LEU:HD11	1.75	0.51
1:j:423:HIS:HB2	1:j:638:PHE:CE1	2.44	0.51
1:m:247:TRP:HZ2	1:m:317:LEU:HD11	1.75	0.51
1:t:322:VAL:CG1	1:t:673:GLN:HE21	2.24	0.51
1:t:343:GLN:HE21	1:t:650:LYS:HE2	1.76	0.51
1:t:550:ARG:NH1	1:v:441:ASP:OD2	2.41	0.51
1:u:247:TRP:HZ2	1:u:317:LEU:HD11	1.75	0.51
1:z:423:HIS:HB2	1:z:638:PHE:HE1	1.74	0.51
1:z:519:ASN:HB3	1:z:520:PRO:HD3	1.91	0.51
1:7:418:GLU:OE2	1:7:641:LYS:N	2.43	0.51
1:8:611:ASP:OD1	1:8:612:VAL:N	2.42	0.51
1:B:322:VAL:HG11	1:B:673:GLN:HE21	1.76	0.51
1:B:343:GLN:HE21	1:B:650:LYS:HE2	1.76	0.51
1:B:418:GLU:OE2	1:B:641:LYS:N	2.43	0.51
1:C:418:GLU:OE2	1:C:641:LYS:N	2.43	0.51
1:D:387:GLN:NE2	1:E:709:ASN:OD1	2.43	0.51
1:E:350:TYR:OH	1:E:643:PRO:O	2.22	0.51
1:F:322:VAL:HG11	1:F:673:GLN:HE21	1.75	0.51
1:F:343:GLN:HE21	1:F:650:LYS:HE2	1.76	0.51
1:G:322:VAL:HG11	1:G:673:GLN:HE21	1.75	0.51
1:H:247:TRP:HZ2	1:H:317:LEU:HD11	1.75	0.51
1:H:387:GLN:NE2	1:Z:709:ASN:OD1	2.43	0.51
1:J:322:VAL:CG1	1:J:673:GLN:HE21	2.24	0.51
1:M:247:TRP:HZ2	1:M:317:LEU:HD11	1.75	0.51
1:N:343:GLN:HE21	1:N:650:LYS:HE2	1.76	0.51
1:N:423:HIS:HB2	1:N:638:PHE:HE1	1.74	0.51
1:O:423:HIS:HB2	1:O:638:PHE:CE1	2.44	0.51
1:Y:247:TRP:HZ2	1:Y:317:LEU:HD11	1.75	0.51
1:Y:322:VAL:CG1	1:Y:673:GLN:HE21	2.24	0.51
1:Z:322:VAL:CG1	1:Z:673:GLN:HE21	2.24	0.51
1:Z:475:GLY:HA2	1:x:519:ASN:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:322:VAL:CG1	1:3:673:GLN:HE21	2.24	0.51
1:3:519:ASN:HB2	1:j:475:GLY:HA2	1.92	0.51
1:5:611:ASP:OD1	1:5:612:VAL:N	2.42	0.51
1:6:343:GLN:HE21	1:6:650:LYS:HE2	1.76	0.51
1:c:441:ASP:OD2	1:d:550:ARG:NH1	2.40	0.51
1:d:343:GLN:HE21	1:d:650:LYS:HE2	1.76	0.51
1:e:418:GLU:OE2	1:e:641:LYS:N	2.43	0.51
1:f:322:VAL:HG11	1:f:673:GLN:HE21	1.76	0.51
1:g:247:TRP:HZ2	1:g:317:LEU:HD11	1.75	0.51
1:m:322:VAL:CG1	1:m:673:GLN:HE21	2.24	0.51
1:n:322:VAL:CG1	1:n:673:GLN:HE21	2.24	0.51
1:n:418:GLU:OE2	1:n:641:LYS:N	2.43	0.51
1:o:343:GLN:HE21	1:o:650:LYS:HE2	1.76	0.51
1:r:322:VAL:HG11	1:r:673:GLN:HE21	1.75	0.51
1:t:519:ASN:HB3	1:t:520:PRO:HD3	1.91	0.51
1:u:322:VAL:CG1	1:u:673:GLN:HE21	2.24	0.51
1:u:418:GLU:OE2	1:u:641:LYS:N	2.43	0.51
1:v:709:ASN:OD1	1:w:387:GLN:NE2	2.43	0.51
1:x:322:VAL:CG1	1:x:673:GLN:HE21	2.24	0.51
1:x:519:ASN:HB3	1:x:520:PRO:HD3	1.91	0.51
1:y:441:ASP:OD2	1:z:550:ARG:NH1	2.41	0.51
1:8:418:GLU:OE2	1:8:641:LYS:N	2.43	0.51
1:8:519:ASN:HB3	1:8:520:PRO:HD3	1.91	0.51
1:A:322:VAL:CG1	1:A:673:GLN:HE21	2.24	0.51
1:C:322:VAL:CG1	1:C:673:GLN:HE21	2.24	0.51
1:E:247:TRP:HZ2	1:E:317:LEU:HD11	1.75	0.51
1:F:423:HIS:HB2	1:F:638:PHE:HE1	1.74	0.51
1:I:526:SER:OG	1:I:562:ASN:OD1	2.25	0.51
1:I:611:ASP:OD1	1:I:612:VAL:N	2.42	0.51
1:J:526:SER:OG	1:J:562:ASN:OD1	2.25	0.51
1:L:343:GLN:HE21	1:L:650:LYS:HE2	1.76	0.51
1:M:322:VAL:CG1	1:M:673:GLN:HE21	2.24	0.51
1:O:611:ASP:OD1	1:O:612:VAL:N	2.42	0.51
1:O:709:ASN:OD1	1:P:387:GLN:NE2	2.43	0.51
1:Q:343:GLN:HE21	1:Q:650:LYS:HE2	1.76	0.51
1:R:387:GLN:NE2	1:V:709:ASN:OD1	2.43	0.51
1:S:322:VAL:HG11	1:S:673:GLN:HE21	1.75	0.51
1:S:418:GLU:OE2	1:S:641:LYS:N	2.43	0.51
1:T:322:VAL:HG11	1:T:673:GLN:HE21	1.75	0.51
1:T:418:GLU:OE2	1:T:641:LYS:N	2.43	0.51
1:X:247:TRP:HZ2	1:X:317:LEU:HD11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:387:GLN:NE2	1:6:709:ASN:OD1	2.43	0.51
1:Y:322:VAL:HG11	1:Y:673:GLN:HE21	1.76	0.51
1:1:475:GLY:HA2	1:8:519:ASN:HB2	1.92	0.51
1:3:418:GLU:OE2	1:3:641:LYS:N	2.43	0.51
1:5:423:HIS:HB2	1:5:638:PHE:CE1	2.44	0.51
1:6:423:HIS:HB2	1:6:638:PHE:HE1	1.74	0.51
1:a:418:GLU:OE2	1:a:641:LYS:N	2.43	0.51
1:c:343:GLN:HE21	1:c:650:LYS:HE2	1.76	0.51
1:d:322:VAL:HG11	1:d:673:GLN:HE21	1.75	0.51
1:d:475:GLY:HA2	1:e:519:ASN:HB2	1.92	0.51
1:e:247:TRP:HZ2	1:e:317:LEU:HD11	1.75	0.51
1:f:387:GLN:NE2	1:h:709:ASN:OD1	2.43	0.51
1:j:322:VAL:CG1	1:j:673:GLN:HE21	2.24	0.51
1:j:343:GLN:HE21	1:j:650:LYS:HE2	1.76	0.51
1:j:709:ASN:OD1	1:k:387:GLN:NE2	2.43	0.51
1:k:247:TRP:HZ2	1:k:317:LEU:HD11	1.75	0.51
1:o:350:TYR:OH	1:o:643:PRO:O	2.22	0.51
1:p:322:VAL:HG11	1:p:673:GLN:HE21	1.76	0.51
1:p:343:GLN:HE21	1:p:650:LYS:HE2	1.76	0.51
1:p:387:GLN:NE2	1:u:709:ASN:OD1	2.43	0.51
1:p:418:GLU:OE2	1:p:641:LYS:N	2.43	0.51
1:s:611:ASP:OD1	1:s:612:VAL:N	2.42	0.51
1:t:519:ASN:HB2	1:v:475:GLY:HA2	1.92	0.51
1:v:322:VAL:CG1	1:v:673:GLN:HE21	2.24	0.51
1:w:247:TRP:HZ2	1:w:317:LEU:HD11	1.75	0.51
1:y:247:TRP:HZ2	1:y:317:LEU:HD11	1.75	0.51
1:z:475:GLY:HA2	1:7:519:ASN:HB2	1.92	0.51
1:8:322:VAL:CG1	1:8:673:GLN:HE21	2.24	0.51
1:B:322:VAL:CG1	1:B:673:GLN:HE21	2.24	0.51
1:D:418:GLU:OE2	1:D:641:LYS:N	2.43	0.51
1:E:519:ASN:HB2	1:F:475:GLY:HA2	1.92	0.51
1:G:322:VAL:CG1	1:G:673:GLN:HE21	2.24	0.51
1:G:475:GLY:HA2	1:I:519:ASN:HB2	1.92	0.51
1:H:709:ASN:OD1	1:I:387:GLN:NE2	2.43	0.51
1:K:387:GLN:NE2	1:7:709:ASN:OD1	2.43	0.51
1:L:243:SER:HB3	1:L:245:ARG:NH1	2.22	0.51
1:M:519:ASN:HB2	1:2:475:GLY:HA2	1.92	0.51
1:N:322:VAL:CG1	1:N:673:GLN:HE21	2.24	0.51
1:R:322:VAL:HG11	1:R:673:GLN:HE21	1.76	0.51
1:S:475:GLY:HA2	1:U:519:ASN:HB2	1.92	0.51
1:T:475:GLY:HA2	1:4:519:ASN:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:611:ASP:OD1	1:Y:612:VAL:N	2.42	0.51
1:Z:322:VAL:HG11	1:Z:673:GLN:HE21	1.75	0.51
1:Z:343:GLN:HE21	1:Z:650:LYS:HE2	1.76	0.51
1:Z:387:GLN:NE2	1:1:709:ASN:OD1	2.43	0.51
1:Z:519:ASN:HB2	1:w:475:GLY:HA2	1.92	0.51
1:2:322:VAL:CG1	1:2:673:GLN:HE21	2.24	0.51
1:6:475:GLY:HA2	1:b:519:ASN:HB2	1.93	0.51
1:a:247:TRP:HZ2	1:a:317:LEU:HD11	1.75	0.51
1:d:247:TRP:HZ2	1:d:317:LEU:HD11	1.75	0.51
1:d:423:HIS:HB2	1:d:638:PHE:HE1	1.74	0.51
1:i:247:TRP:HZ2	1:i:317:LEU:HD11	1.75	0.51
1:i:322:VAL:CG1	1:i:673:GLN:HE21	2.24	0.51
1:i:475:GLY:HA2	1:j:519:ASN:HB2	1.92	0.51
1:j:387:GLN:NE2	1:z:709:ASN:OD1	2.43	0.51
1:k:322:VAL:HG11	1:k:673:GLN:HE21	1.75	0.51
1:l:418:GLU:OE2	1:l:641:LYS:N	2.43	0.51
1:m:322:VAL:HG11	1:m:673:GLN:HE21	1.76	0.51
1:m:611:ASP:OD1	1:m:612:VAL:N	2.42	0.51
1:n:441:ASP:OD2	1:o:550:ARG:NH1	2.41	0.51
1:p:322:VAL:CG1	1:p:673:GLN:HE21	2.24	0.51
1:q:247:TRP:HZ2	1:q:317:LEU:HD11	1.75	0.51
1:q:322:VAL:HG11	1:q:673:GLN:HE21	1.75	0.51
1:q:322:VAL:CG1	1:q:673:GLN:HE21	2.24	0.51
1:r:322:VAL:CG1	1:r:673:GLN:HE21	2.24	0.51
1:t:247:TRP:HZ2	1:t:317:LEU:HD11	1.75	0.51
1:w:343:GLN:HE21	1:w:650:LYS:HE2	1.76	0.51
1:w:418:GLU:OE2	1:w:641:LYS:N	2.43	0.51
1:7:322:VAL:CG1	1:7:673:GLN:HE21	2.24	0.51
1:7:519:ASN:HB3	1:7:520:PRO:HD3	1.91	0.51
1:A:322:VAL:HG11	1:A:673:GLN:HE21	1.76	0.51
1:A:343:GLN:HE21	1:A:650:LYS:HE2	1.76	0.51
1:B:387:GLN:NE2	1:C:709:ASN:OD1	2.43	0.51
1:C:322:VAL:HG11	1:C:673:GLN:HE21	1.76	0.51
1:C:475:GLY:HA2	1:2:519:ASN:HB2	1.92	0.51
1:D:247:TRP:HZ2	1:D:317:LEU:HD11	1.75	0.51
1:F:247:TRP:HZ2	1:F:317:LEU:HD11	1.75	0.51
1:H:423:HIS:HB2	1:H:638:PHE:HE1	1.74	0.51
1:H:519:ASN:HB2	1:Y:475:GLY:HA2	1.92	0.51
1:J:441:ASP:OD2	1:L:550:ARG:NH1	2.41	0.51
1:K:441:ASP:OD2	1:1:550:ARG:NH1	2.41	0.51
1:M:519:ASN:HB3	1:M:520:PRO:HD3	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:322:VAL:CG1	1:O:673:GLN:HE21	2.24	0.51
1:O:343:GLN:HE21	1:O:650:LYS:HE2	1.76	0.51
1:S:247:TRP:HZ2	1:S:317:LEU:HD11	1.75	0.51
1:W:418:GLU:OE2	1:W:641:LYS:N	2.43	0.51
1:Y:343:GLN:HE21	1:Y:650:LYS:HE2	1.76	0.51
1:5:322:VAL:CG1	1:5:673:GLN:HE21	2.24	0.51
1:5:343:GLN:HE21	1:5:650:LYS:HE2	1.76	0.51
1:5:709:ASN:OD1	1:b:387:GLN:NE2	2.43	0.51
1:6:322:VAL:CG1	1:6:673:GLN:HE21	2.24	0.51
1:g:475:GLY:HA2	1:h:519:ASN:HB2	1.92	0.51
1:i:343:GLN:HE21	1:i:650:LYS:HE2	1.76	0.51
1:i:418:GLU:OE2	1:i:641:LYS:N	2.43	0.51
1:j:322:VAL:HG11	1:j:673:GLN:HE21	1.75	0.51
1:k:475:GLY:HA2	1:l:519:ASN:HB2	1.92	0.51
1:l:322:VAL:HG11	1:l:673:GLN:HE21	1.75	0.51
1:r:475:GLY:HA2	1:s:519:ASN:HB2	1.92	0.51
1:s:322:VAL:CG1	1:s:673:GLN:HE21	2.24	0.51
1:s:423:HIS:HB2	1:s:638:PHE:HE1	1.74	0.51
1:t:243:SER:HB3	1:t:245:ARG:NH1	2.22	0.51
1:u:322:VAL:HG11	1:u:673:GLN:HE21	1.76	0.51
1:w:322:VAL:CG1	1:w:673:GLN:HE21	2.24	0.51
1:w:611:ASP:OD1	1:w:612:VAL:N	2.42	0.51
1:x:243:SER:HB3	1:x:245:ARG:NH1	2.22	0.51
1:y:387:GLN:NE2	1:8:709:ASN:OD1	2.43	0.51
1:z:322:VAL:CG1	1:z:673:GLN:HE21	2.24	0.51
1:A:247:TRP:HZ2	1:A:317:LEU:HD11	1.75	0.51
1:A:611:ASP:OD1	1:A:612:VAL:N	2.42	0.51
1:B:611:ASP:OD1	1:B:612:VAL:N	2.42	0.51
1:H:322:VAL:HG11	1:H:673:GLN:HE21	1.75	0.51
1:H:475:GLY:HA2	1:W:519:ASN:HB2	1.92	0.51
1:I:322:VAL:CG1	1:I:673:GLN:HE21	2.24	0.51
1:J:247:TRP:HZ2	1:J:317:LEU:HD11	1.75	0.51
1:J:475:GLY:HA2	1:L:519:ASN:HB2	1.92	0.51
1:J:709:ASN:OD1	1:1:387:GLN:NE2	2.43	0.51
1:K:343:GLN:HE21	1:K:650:LYS:HE2	1.76	0.51
1:L:350:TYR:OH	1:L:643:PRO:O	2.22	0.51
1:M:243:SER:HB3	1:M:245:ARG:NH1	2.22	0.51
1:N:228:TRP:HB2	1:g:404:MET:HE3	1.92	0.51
1:N:311:LYS:HG3	1:N:686:GLU:HB2	1.93	0.51
1:O:418:GLU:OE2	1:O:641:LYS:N	2.43	0.51
1:P:322:VAL:HG11	1:P:673:GLN:HE21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:709:ASN:OD1	1:Q:387:GLN:NE2	2.44	0.51
1:Q:322:VAL:CG1	1:Q:673:GLN:HE21	2.24	0.51
1:T:247:TRP:HZ2	1:T:317:LEU:HD11	1.75	0.51
1:U:243:SER:HB3	1:U:245:ARG:NH1	2.22	0.51
1:V:418:GLU:OE2	1:V:641:LYS:N	2.43	0.51
1:1:322:VAL:CG1	1:1:673:GLN:HE21	2.24	0.51
1:3:247:TRP:HZ2	1:3:317:LEU:HD11	1.75	0.51
1:a:322:VAL:HG11	1:a:673:GLN:HE21	1.75	0.51
1:a:423:HIS:HB2	1:a:638:PHE:HE1	1.74	0.51
1:b:709:ASN:OD1	1:c:387:GLN:NE2	2.43	0.51
1:h:418:GLU:OE2	1:h:641:LYS:N	2.43	0.51
1:i:350:TYR:OH	1:i:643:PRO:O	2.22	0.51
1:i:611:ASP:OD1	1:i:612:VAL:N	2.42	0.51
1:k:519:ASN:HB2	1:m:475:GLY:HA2	1.92	0.51
1:m:343:GLN:HE21	1:m:650:LYS:HE2	1.76	0.51
1:n:475:GLY:HA2	1:o:519:ASN:HB2	1.92	0.51
1:n:526:SER:OG	1:n:562:ASN:OD1	2.25	0.51
1:q:343:GLN:HE21	1:q:650:LYS:HE2	1.76	0.51
1:s:526:SER:OG	1:s:562:ASN:OD1	2.25	0.51
1:I:418:GLU:OE2	1:I:641:LYS:N	2.43	0.51
1:I:423:HIS:HB2	1:I:638:PHE:HE1	1.74	0.51
1:S:563:GLU:OE2	1:S:613:TYR:OH	2.25	0.51
1:V:519:ASN:HB2	1:X:475:GLY:HA2	1.92	0.51
1:W:322:VAL:HG11	1:W:673:GLN:HE21	1.75	0.51
1:W:526:SER:OG	1:W:562:ASN:OD1	2.25	0.51
1:X:311:LYS:HG3	1:X:686:GLU:HB2	1.93	0.51
1:2:311:LYS:HG3	1:2:686:GLU:HB2	1.93	0.51
1:4:243:SER:HB3	1:4:245:ARG:NH1	2.22	0.51
1:5:418:GLU:OE2	1:5:641:LYS:N	2.43	0.51
1:b:322:VAL:HG11	1:b:673:GLN:HE21	1.75	0.51
1:c:322:VAL:HG11	1:c:673:GLN:HE21	1.75	0.51
1:c:322:VAL:CG1	1:c:673:GLN:HE21	2.24	0.51
1:d:311:LYS:HG3	1:d:686:GLU:HB2	1.93	0.51
1:f:418:GLU:OE2	1:f:641:LYS:N	2.43	0.51
1:f:526:SER:OG	1:f:562:ASN:OD1	2.25	0.51
1:g:311:LYS:HG3	1:g:686:GLU:HB2	1.93	0.51
1:g:322:VAL:HG11	1:g:673:GLN:HE21	1.75	0.51
1:h:343:GLN:HE21	1:h:650:LYS:HE2	1.76	0.51
1:n:709:ASN:OD1	1:z:387:GLN:NE2	2.43	0.51
1:p:611:ASP:OD1	1:p:612:VAL:N	2.42	0.51
1:q:441:ASP:OD2	1:r:550:ARG:NH1	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:611:ASP:OD1	1:q:612:VAL:N	2.42	0.51
1:s:418:GLU:OE2	1:s:641:LYS:N	2.43	0.51
1:u:475:GLY:HA2	1:v:519:ASN:HB2	1.93	0.51
1:v:322:VAL:HG11	1:v:673:GLN:HE21	1.75	0.51
1:x:343:GLN:HE21	1:x:650:LYS:HE2	1.76	0.51
1:y:343:GLN:HE21	1:y:650:LYS:HE2	1.76	0.51
1:7:423:HIS:HB2	1:7:638:PHE:HE1	1.74	0.51
1:A:441:ASP:OD2	1:G:550:ARG:NH1	2.40	0.51
1:C:563:GLU:OE2	1:C:613:TYR:OH	2.25	0.51
1:D:322:VAL:HG11	1:D:673:GLN:HE21	1.75	0.51
1:D:423:HIS:HB2	1:D:638:PHE:HE1	1.74	0.51
1:F:311:LYS:HG3	1:F:686:GLU:HB2	1.93	0.51
1:L:423:HIS:HB2	1:L:638:PHE:HE1	1.74	0.51
1:L:709:ASN:OD1	1:2:387:GLN:NE2	2.43	0.51
1:O:475:GLY:HA2	1:g:519:ASN:HB2	1.92	0.51
1:Q:311:LYS:HG3	1:Q:686:GLU:HB2	1.93	0.51
1:Q:322:VAL:HG11	1:Q:673:GLN:HE21	1.75	0.51
1:R:343:GLN:HE21	1:R:650:LYS:HE2	1.76	0.51
1:R:418:GLU:OE2	1:R:641:LYS:N	2.43	0.51
1:V:343:GLN:HE21	1:V:650:LYS:HE2	1.76	0.51
1:W:311:LYS:HG3	1:W:686:GLU:HB2	1.93	0.51
1:X:322:VAL:HG11	1:X:673:GLN:HE21	1.76	0.51
1:2:519:ASN:HB3	1:2:520:PRO:HD3	1.91	0.51
1:3:243:SER:HB3	1:3:245:ARG:NH1	2.22	0.51
1:3:343:GLN:HE21	1:3:650:LYS:HE2	1.76	0.51
1:6:311:LYS:HG3	1:6:686:GLU:HB2	1.93	0.51
1:a:519:ASN:HB2	1:b:475:GLY:HA2	1.92	0.51
1:c:311:LYS:HG3	1:c:686:GLU:HB2	1.93	0.51
1:f:343:GLN:HE21	1:f:650:LYS:HE2	1.76	0.51
1:k:322:VAL:CG1	1:k:673:GLN:HE21	2.24	0.51
1:k:423:HIS:HB2	1:k:638:PHE:HE1	1.74	0.51
1:n:247:TRP:HZ2	1:n:317:LEU:HD11	1.75	0.51
1:o:243:SER:HB3	1:o:245:ARG:NH1	2.23	0.51
1:o:322:VAL:HG11	1:o:673:GLN:HE21	1.76	0.51
1:q:519:ASN:HB3	1:q:520:PRO:HD3	1.91	0.51
1:u:311:LYS:HG3	1:u:686:GLU:HB2	1.93	0.51
1:u:563:GLU:OE2	1:u:613:TYR:OH	2.25	0.51
1:v:311:LYS:HG3	1:v:686:GLU:HB2	1.93	0.51
1:v:519:ASN:HB3	1:v:520:PRO:HD3	1.91	0.51
1:w:350:TYR:OH	1:w:643:PRO:O	2.22	0.51
1:x:247:TRP:HZ2	1:x:317:LEU:HD11	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:441:ASP:OD2	1:7:550:ARG:NH1	2.41	0.51
1:A:418:GLU:OE2	1:A:641:LYS:N	2.43	0.51
1:A:423:HIS:HB2	1:A:638:PHE:HE1	1.74	0.51
1:A:519:ASN:HB3	1:A:520:PRO:HD3	1.91	0.51
1:B:475:GLY:HA2	1:J:519:ASN:HB2	1.92	0.51
1:C:311:LYS:HG3	1:C:686:GLU:HB2	1.93	0.51
1:D:475:GLY:HA2	1:N:519:ASN:HB2	1.92	0.51
1:E:475:GLY:HA2	1:Q:519:ASN:HB2	1.92	0.51
1:F:485:ARG:NH1	1:F:576:SER:OG	2.44	0.51
1:G:247:TRP:HZ2	1:G:317:LEU:HD11	1.75	0.51
1:H:322:VAL:CG1	1:H:673:GLN:HE21	2.24	0.51
1:H:519:ASN:HB3	1:H:520:PRO:HD3	1.91	0.51
1:L:311:LYS:HG3	1:L:686:GLU:HB2	1.93	0.51
1:L:322:VAL:CG1	1:L:673:GLN:HE21	2.24	0.51
1:L:322:VAL:HG11	1:L:673:GLN:HE21	1.75	0.51
1:P:343:GLN:HE21	1:P:650:LYS:HE2	1.76	0.51
1:R:526:SER:OG	1:R:562:ASN:OD1	2.25	0.51
1:S:322:VAL:CG1	1:S:673:GLN:HE21	2.24	0.51
1:X:519:ASN:HB2	1:5:475:GLY:HA2	1.92	0.51
1:X:519:ASN:HB3	1:X:520:PRO:HD3	1.91	0.51
1:Y:423:HIS:HB2	1:Y:638:PHE:HE1	1.74	0.51
1:1:343:GLN:HE21	1:1:650:LYS:HE2	1.76	0.51
1:2:322:VAL:HG11	1:2:673:GLN:HE21	1.76	0.51
1:4:322:VAL:HG11	1:4:673:GLN:HE21	1.76	0.51
1:d:485:ARG:NH1	1:d:576:SER:OG	2.44	0.51
1:k:709:ASN:OD1	1:s:387:GLN:NE2	2.43	0.51
1:l:311:LYS:HG3	1:l:686:GLU:HB2	1.93	0.51
1:o:322:VAL:CG1	1:o:673:GLN:HE21	2.24	0.51
1:v:418:GLU:OE2	1:v:641:LYS:N	2.43	0.51
1:8:423:HIS:HB2	1:8:638:PHE:HE1	1.74	0.51
1:A:485:ARG:NH1	1:A:576:SER:OG	2.44	0.51
1:D:322:VAL:CG1	1:D:673:GLN:HE21	2.24	0.51
1:D:519:ASN:HB2	1:P:475:GLY:HA2	1.93	0.51
1:E:418:GLU:OE2	1:E:641:LYS:N	2.43	0.51
1:J:243:SER:HB3	1:J:245:ARG:NH1	2.22	0.51
1:K:322:VAL:CG1	1:K:673:GLN:HE21	2.24	0.51
1:O:331:VAL:HG11	1:P:328:ASN:HD21	1.76	0.51
1:R:311:LYS:HG3	1:R:686:GLU:HB2	1.93	0.51
1:S:243:SER:HB3	1:S:245:ARG:NH1	2.22	0.51
1:T:243:SER:HB3	1:T:245:ARG:NH1	2.22	0.51
1:T:322:VAL:CG1	1:T:673:GLN:HE21	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:322:VAL:HG11	1:U:673:GLN:HE21	1.76	0.51
1:U:350:TYR:OH	1:U:643:PRO:O	2.22	0.51
1:Z:485:ARG:NH1	1:Z:576:SER:OG	2.44	0.51
1:1:485:ARG:NH1	1:1:576:SER:OG	2.44	0.51
1:b:343:GLN:HE21	1:b:650:LYS:HE2	1.76	0.51
1:c:519:ASN:HB2	1:e:475:GLY:HA2	1.92	0.51
1:f:429:SER:OG	1:f:735:ASN:OD1	2.29	0.51
1:g:519:ASN:HB3	1:g:520:PRO:HD3	1.92	0.51
1:h:322:VAL:CG1	1:h:673:GLN:HE21	2.24	0.51
1:i:485:ARG:NH1	1:i:576:SER:OG	2.44	0.51
1:j:350:TYR:OH	1:j:643:PRO:O	2.22	0.51
1:j:485:ARG:NH1	1:j:576:SER:OG	2.44	0.51
1:k:519:ASN:HB3	1:k:520:PRO:HD3	1.91	0.51
1:m:423:HIS:HB2	1:m:638:PHE:HE1	1.74	0.51
1:n:243:SER:HB3	1:n:245:ARG:NH1	2.22	0.51
1:n:519:ASN:HB2	1:p:475:GLY:HA2	1.92	0.51
1:o:311:LYS:HG3	1:o:686:GLU:HB2	1.93	0.51
1:o:423:HIS:HB2	1:o:638:PHE:HE1	1.74	0.51
1:q:485:ARG:NH1	1:q:576:SER:OG	2.44	0.51
1:r:247:TRP:HZ2	1:r:317:LEU:HD11	1.75	0.51
1:r:525:ALA:O	1:r:573:ALA:N	2.34	0.51
1:t:322:VAL:HG11	1:t:673:GLN:HE21	1.75	0.51
1:w:485:ARG:NH1	1:w:576:SER:OG	2.44	0.51
1:y:322:VAL:CG1	1:y:673:GLN:HE21	2.24	0.51
1:z:485:ARG:NH1	1:z:576:SER:OG	2.44	0.51
1:7:247:TRP:HZ2	1:7:317:LEU:HD11	1.75	0.51
1:C:429:SER:OG	1:C:735:ASN:OD1	2.29	0.50
1:C:519:ASN:HB2	1:M:475:GLY:HA2	1.92	0.50
1:D:478:TYR:CE2	1:N:623:PRO:HD3	2.46	0.50
1:D:485:ARG:NH1	1:D:576:SER:OG	2.44	0.50
1:G:525:ALA:O	1:G:573:ALA:N	2.34	0.50
1:K:485:ARG:NH1	1:K:576:SER:OG	2.44	0.50
1:N:319:ASN:ND2	1:g:404:MET:SD	2.84	0.50
1:N:322:VAL:HG11	1:N:673:GLN:HE21	1.76	0.50
1:R:429:SER:OG	1:R:735:ASN:OD1	2.29	0.50
1:Z:429:SER:OG	1:Z:735:ASN:OD1	2.29	0.50
1:2:418:GLU:OE2	1:2:641:LYS:N	2.43	0.50
1:3:350:TYR:OH	1:3:643:PRO:O	2.22	0.50
1:3:475:GLY:HA2	1:i:519:ASN:HB2	1.92	0.50
1:4:311:LYS:HG3	1:4:686:GLU:HB2	1.93	0.50
1:a:485:ARG:NH1	1:a:576:SER:OG	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:525:ALA:O	1:e:573:ALA:N	2.34	0.50
1:f:311:LYS:HG3	1:f:686:GLU:HB2	1.93	0.50
1:f:525:ALA:O	1:f:573:ALA:N	2.34	0.50
1:f:563:GLU:OE2	1:f:613:TYR:OH	2.24	0.50
1:i:311:LYS:HG3	1:i:686:GLU:HB2	1.93	0.50
1:l:485:ARG:NH1	1:l:576:SER:OG	2.44	0.50
1:l:526:SER:OG	1:l:562:ASN:OD1	2.25	0.50
1:q:418:GLU:OE2	1:q:641:LYS:N	2.43	0.50
1:q:423:HIS:HB2	1:q:638:PHE:HE1	1.74	0.50
1:t:475:GLY:HA2	1:u:519:ASN:HB2	1.92	0.50
1:u:429:SER:OG	1:u:735:ASN:OD1	2.30	0.50
1:w:311:LYS:HG3	1:w:686:GLU:HB2	1.93	0.50
1:w:519:ASN:HB2	1:x:475:GLY:HA2	1.92	0.50
1:x:322:VAL:HG11	1:x:673:GLN:HE21	1.75	0.50
1:y:485:ARG:NH1	1:y:576:SER:OG	2.44	0.50
1:z:343:GLN:HE21	1:z:650:LYS:HE2	1.76	0.50
1:B:429:SER:OG	1:B:735:ASN:OD1	2.29	0.50
1:F:322:VAL:CG1	1:F:673:GLN:HE21	2.24	0.50
1:H:563:GLU:OE2	1:H:613:TYR:OH	2.25	0.50
1:S:429:SER:OG	1:S:735:ASN:OD1	2.29	0.50
1:U:311:LYS:HG3	1:U:686:GLU:HB2	1.93	0.50
1:V:322:VAL:CG1	1:V:673:GLN:HE21	2.24	0.50
1:V:387:GLN:NE2	1:W:709:ASN:OD1	2.43	0.50
1:W:429:SER:OG	1:W:735:ASN:OD1	2.29	0.50
1:W:485:ARG:NH1	1:W:576:SER:OG	2.44	0.50
1:4:350:TYR:OH	1:4:643:PRO:O	2.22	0.50
1:5:311:LYS:HG3	1:5:686:GLU:HB2	1.93	0.50
1:6:322:VAL:HG11	1:6:673:GLN:HE21	1.76	0.50
1:6:519:ASN:HB2	1:a:475:GLY:HA2	1.92	0.50
1:a:322:VAL:CG1	1:a:673:GLN:HE21	2.24	0.50
1:d:322:VAL:CG1	1:d:673:GLN:HE21	2.24	0.50
1:f:322:VAL:CG1	1:f:673:GLN:HE21	2.24	0.50
1:f:328:ASN:HD21	1:h:331:VAL:HG11	1.76	0.50
1:g:441:ASP:OD2	1:h:550:ARG:NH1	2.41	0.50
1:h:387:GLN:NE2	1:l:709:ASN:OD1	2.43	0.50
1:l:475:GLY:HA2	1:m:519:ASN:HB2	1.93	0.50
1:s:322:VAL:HG11	1:s:673:GLN:HE21	1.75	0.50
1:7:429:SER:OG	1:7:735:ASN:OD1	2.29	0.50
1:8:247:TRP:HZ2	1:8:317:LEU:HD11	1.75	0.50
1:8:311:LYS:HG3	1:8:686:GLU:HB2	1.93	0.50
1:8:429:SER:OG	1:8:735:ASN:OD1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:387:GLN:NE2	1:R:709:ASN:OD1	2.43	0.50
1:F:429:SER:OG	1:F:735:ASN:OD1	2.29	0.50
1:H:481:GLY:HA3	1:H:607:TRP:HB3	1.94	0.50
1:J:322:VAL:HG11	1:J:673:GLN:HE21	1.76	0.50
1:K:475:GLY:HA2	1:1:519:ASN:HB2	1.93	0.50
1:M:322:VAL:HG11	1:M:673:GLN:HE21	1.76	0.50
1:N:481:GLY:HA3	1:N:607:TRP:HB3	1.94	0.50
1:O:311:LYS:HG3	1:O:686:GLU:HB2	1.93	0.50
1:P:311:LYS:HG3	1:P:686:GLU:HB2	1.93	0.50
1:P:322:VAL:CG1	1:P:673:GLN:HE21	2.24	0.50
1:R:328:ASN:HD21	1:V:331:VAL:HG11	1.76	0.50
1:T:429:SER:OG	1:T:735:ASN:OD1	2.29	0.50
1:W:475:GLY:HA2	1:Y:519:ASN:HB2	1.93	0.50
1:X:485:ARG:NH1	1:X:576:SER:OG	2.44	0.50
1:Z:247:TRP:HZ2	1:Z:317:LEU:HD11	1.75	0.50
1:Z:350:TYR:OH	1:Z:643:PRO:O	2.22	0.50
1:1:418:GLU:OE2	1:1:641:LYS:N	2.43	0.50
1:4:322:VAL:CG1	1:4:673:GLN:HE21	2.24	0.50
1:4:429:SER:OG	1:4:735:ASN:OD1	2.29	0.50
1:5:331:VAL:HG11	1:b:328:ASN:HD21	1.77	0.50
1:d:243:SER:HB3	1:d:245:ARG:NH1	2.22	0.50
1:d:387:GLN:NE2	1:f:709:ASN:OD1	2.43	0.50
1:d:429:SER:OG	1:d:735:ASN:OD1	2.29	0.50
1:e:429:SER:OG	1:e:735:ASN:OD1	2.29	0.50
1:g:322:VAL:CG1	1:g:673:GLN:HE21	2.24	0.50
1:i:322:VAL:HG11	1:i:673:GLN:HE21	1.75	0.50
1:j:429:SER:OG	1:j:735:ASN:OD1	2.29	0.50
1:k:481:GLY:HA3	1:k:607:TRP:HB3	1.94	0.50
1:k:563:GLU:OE2	1:k:613:TYR:OH	2.25	0.50
1:p:429:SER:OG	1:p:735:ASN:OD1	2.29	0.50
1:r:429:SER:OG	1:r:735:ASN:OD1	2.29	0.50
1:w:322:VAL:HG11	1:w:673:GLN:HE21	1.75	0.50
1:y:322:VAL:HG11	1:y:673:GLN:HE21	1.76	0.50
1:7:311:LYS:HG3	1:7:686:GLU:HB2	1.93	0.50
1:7:343:GLN:HE21	1:7:650:LYS:HE2	1.76	0.50
1:8:343:GLN:HE21	1:8:650:LYS:HE2	1.76	0.50
1:C:485:ARG:NH1	1:C:576:SER:OG	2.44	0.50
1:D:343:GLN:HE21	1:D:650:LYS:HE2	1.76	0.50
1:D:429:SER:OG	1:D:735:ASN:OD1	2.29	0.50
1:E:343:GLN:HE21	1:E:650:LYS:HE2	1.76	0.50
1:E:429:SER:OG	1:E:735:ASN:OD1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:328:ASN:HD21	1:R:331:VAL:HG11	1.77	0.50
1:G:485:ARG:NH1	1:G:576:SER:OG	2.44	0.50
1:G:519:ASN:O	1:G:520:PRO:C	2.55	0.50
1:I:322:VAL:HG11	1:I:673:GLN:HE21	1.75	0.50
1:I:429:SER:OG	1:I:735:ASN:OD1	2.29	0.50
1:L:526:SER:OG	1:L:562:ASN:OD1	2.25	0.50
1:M:485:ARG:NH1	1:M:576:SER:OG	2.44	0.50
1:P:563:GLU:OE2	1:P:613:TYR:OH	2.24	0.50
1:Q:247:TRP:HZ2	1:Q:317:LEU:HD11	1.75	0.50
1:R:322:VAL:CG1	1:R:673:GLN:HE21	2.24	0.50
1:R:563:GLU:OE2	1:R:613:TYR:OH	2.24	0.50
1:T:526:SER:OG	1:T:562:ASN:OD1	2.25	0.50
1:U:322:VAL:CG1	1:U:673:GLN:HE21	2.24	0.50
1:U:429:SER:OG	1:U:735:ASN:OD1	2.29	0.50
1:V:429:SER:OG	1:V:735:ASN:OD1	2.30	0.50
1:V:550:ARG:NH1	1:X:441:ASP:OD2	2.41	0.50
1:W:322:VAL:CG1	1:W:673:GLN:HE21	2.24	0.50
1:X:322:VAL:CG1	1:X:673:GLN:HE21	2.24	0.50
1:X:343:GLN:HE21	1:X:650:LYS:HE2	1.76	0.50
1:Y:429:SER:OG	1:Y:735:ASN:OD1	2.29	0.50
1:Y:563:GLU:OE2	1:Y:613:TYR:OH	2.25	0.50
1:Z:328:ASN:HD21	1:1:331:VAL:HG11	1.77	0.50
1:2:485:ARG:NH1	1:2:576:SER:OG	2.44	0.50
1:3:322:VAL:HG11	1:3:673:GLN:HE21	1.75	0.50
1:3:485:ARG:NH1	1:3:576:SER:OG	2.44	0.50
1:3:519:ASN:O	1:3:520:PRO:C	2.55	0.50
1:6:481:GLY:HA3	1:6:607:TRP:HB3	1.94	0.50
1:a:343:GLN:HE21	1:a:650:LYS:HE2	1.76	0.50
1:b:311:LYS:HG3	1:b:686:GLU:HB2	1.93	0.50
1:c:247:TRP:HZ2	1:c:317:LEU:HD11	1.75	0.50
1:d:328:ASN:HD21	1:f:331:VAL:HG11	1.77	0.50
1:e:611:ASP:OD1	1:e:612:VAL:N	2.42	0.50
1:g:485:ARG:NH1	1:g:576:SER:OG	2.44	0.50
1:h:429:SER:OG	1:h:735:ASN:OD1	2.30	0.50
1:j:247:TRP:HZ2	1:j:317:LEU:HD11	1.75	0.50
1:l:429:SER:OG	1:l:735:ASN:OD1	2.30	0.50
1:m:429:SER:OG	1:m:735:ASN:OD1	2.29	0.50
1:x:350:TYR:OH	1:x:643:PRO:O	2.22	0.50
1:x:485:ARG:NH1	1:x:576:SER:OG	2.44	0.50
1:x:519:ASN:O	1:x:520:PRO:C	2.55	0.50
1:y:475:GLY:HA2	1:z:519:ASN:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:418:GLU:OE2	1:z:641:LYS:N	2.43	0.50
1:z:481:GLY:HA3	1:z:607:TRP:HB3	1.94	0.50
1:A:475:GLY:HA2	1:G:519:ASN:HB2	1.92	0.50
1:B:485:ARG:NH1	1:B:576:SER:OG	2.44	0.50
1:B:519:ASN:HB2	1:L:475:GLY:HA2	1.92	0.50
1:E:322:VAL:CG1	1:E:673:GLN:HE21	2.24	0.50
1:E:525:ALA:O	1:E:573:ALA:N	2.34	0.50
1:E:611:ASP:OD1	1:E:612:VAL:N	2.42	0.50
1:G:429:SER:OG	1:G:735:ASN:OD1	2.29	0.50
1:J:311:LYS:HG3	1:J:686:GLU:HB2	1.93	0.50
1:K:322:VAL:HG11	1:K:673:GLN:HE21	1.76	0.50
1:N:485:ARG:NH1	1:N:576:SER:OG	2.44	0.50
1:O:322:VAL:HG11	1:O:673:GLN:HE21	1.76	0.50
1:O:485:ARG:NH1	1:O:576:SER:OG	2.44	0.50
1:P:429:SER:OG	1:P:735:ASN:OD1	2.29	0.50
1:S:343:GLN:HE21	1:S:650:LYS:HE2	1.76	0.50
1:S:526:SER:OG	1:S:562:ASN:OD1	2.25	0.50
1:X:429:SER:OG	1:X:735:ASN:OD1	2.29	0.50
1:1:429:SER:OG	1:1:735:ASN:OD1	2.29	0.50
1:1:481:GLY:HA3	1:1:607:TRP:HB3	1.94	0.50
1:3:387:GLN:NE2	1:m:709:ASN:OD1	2.43	0.50
1:5:485:ARG:NH1	1:5:576:SER:OG	2.44	0.50
1:6:485:ARG:NH1	1:6:576:SER:OG	2.44	0.50
1:a:429:SER:OG	1:a:735:ASN:OD1	2.29	0.50
1:b:322:VAL:CG1	1:b:673:GLN:HE21	2.24	0.50
1:b:429:SER:OG	1:b:735:ASN:OD1	2.29	0.50
1:e:322:VAL:CG1	1:e:673:GLN:HE21	2.24	0.50
1:g:343:GLN:HE21	1:g:650:LYS:HE2	1.76	0.50
1:j:328:ASN:HD21	1:z:331:VAL:HG11	1.77	0.50
1:l:322:VAL:CG1	1:l:673:GLN:HE21	2.24	0.50
1:m:481:GLY:HA3	1:m:607:TRP:HB3	1.94	0.50
1:m:563:GLU:OE2	1:m:613:TYR:OH	2.25	0.50
1:n:322:VAL:HG11	1:n:673:GLN:HE21	1.76	0.50
1:p:247:TRP:HZ2	1:p:317:LEU:HD11	1.75	0.50
1:p:485:ARG:NH1	1:p:576:SER:OG	2.44	0.50
1:r:343:GLN:HE21	1:r:650:LYS:HE2	1.76	0.50
1:r:485:ARG:NH1	1:r:576:SER:OG	2.44	0.50
1:s:429:SER:OG	1:s:735:ASN:OD1	2.30	0.50
1:s:485:ARG:NH1	1:s:576:SER:OG	2.44	0.50
1:t:485:ARG:NH1	1:t:576:SER:OG	2.44	0.50
1:u:485:ARG:NH1	1:u:576:SER:OG	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:485:ARG:NH1	1:v:576:SER:OG	2.44	0.50
1:A:311:LYS:HG3	1:A:686:GLU:HB2	1.93	0.50
1:A:429:SER:OG	1:A:735:ASN:OD1	2.29	0.50
1:I:485:ARG:NH1	1:I:576:SER:OG	2.44	0.50
1:Q:331:VAL:HG11	1:S:328:ASN:HD21	1.77	0.50
1:R:525:ALA:O	1:R:573:ALA:N	2.34	0.50
1:S:311:LYS:HG3	1:S:686:GLU:HB2	1.93	0.50
1:T:328:ASN:HD21	1:c:331:VAL:HG11	1.77	0.50
1:W:519:ASN:O	1:W:520:PRO:C	2.55	0.50
1:X:328:ASN:HD21	1:6:331:VAL:HG11	1.77	0.50
1:Y:709:ASN:OD1	1:x:387:GLN:NE2	2.43	0.50
1:c:481:GLY:HA3	1:c:607:TRP:HB3	1.94	0.50
1:d:355:VAL:H	1:d:646:GLN:HE22	1.60	0.50
1:e:343:GLN:HE21	1:e:650:LYS:HE2	1.76	0.50
1:e:387:GLN:NE2	1:q:709:ASN:OD1	2.43	0.50
1:g:429:SER:OG	1:g:735:ASN:OD1	2.29	0.50
1:i:481:GLY:HA3	1:i:607:TRP:HB3	1.94	0.50
1:k:429:SER:OG	1:k:735:ASN:OD1	2.29	0.50
1:l:519:ASN:O	1:l:520:PRO:C	2.55	0.50
1:n:311:LYS:HG3	1:n:686:GLU:HB2	1.93	0.50
1:o:475:GLY:HA2	1:p:519:ASN:HB2	1.92	0.50
1:r:519:ASN:O	1:r:520:PRO:C	2.55	0.50
1:u:243:SER:HB3	1:u:245:ARG:NH1	2.22	0.50
1:w:481:GLY:HA3	1:w:607:TRP:HB3	1.94	0.50
1:z:429:SER:OG	1:z:735:ASN:OD1	2.29	0.50
1:7:519:ASN:O	1:7:520:PRO:C	2.55	0.50
1:B:247:TRP:HZ2	1:B:317:LEU:HD11	1.75	0.50
1:C:481:GLY:HA3	1:C:607:TRP:HB3	1.94	0.50
1:F:355:VAL:H	1:F:646:GLN:HE22	1.60	0.50
1:G:343:GLN:HE21	1:G:650:LYS:HE2	1.76	0.50
1:H:519:ASN:O	1:H:520:PRO:C	2.55	0.50
1:I:311:LYS:HG3	1:I:686:GLU:HB2	1.93	0.50
1:I:343:GLN:HE21	1:I:650:LYS:HE2	1.76	0.50
1:N:355:VAL:H	1:N:646:GLN:HE22	1.60	0.50
1:O:328:ASN:HD21	1:4:331:VAL:HG11	1.77	0.50
1:Q:481:GLY:HA3	1:Q:607:TRP:HB3	1.94	0.50
1:Q:526:SER:OG	1:Q:562:ASN:OD1	2.25	0.50
1:R:485:ARG:NH1	1:R:576:SER:OG	2.44	0.50
1:T:311:LYS:HG3	1:T:686:GLU:HB2	1.93	0.50
1:T:343:GLN:HE21	1:T:650:LYS:HE2	1.76	0.50
1:U:331:VAL:HG11	1:5:328:ASN:HD21	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:243:SER:HB3	1:V:245:ARG:NH1	2.22	0.50
1:X:481:GLY:HA3	1:X:607:TRP:HB3	1.94	0.50
1:Y:481:GLY:HA3	1:Y:607:TRP:HB3	1.94	0.50
1:3:311:LYS:HG3	1:3:686:GLU:HB2	1.93	0.50
1:5:322:VAL:HG11	1:5:673:GLN:HE21	1.76	0.50
1:6:355:VAL:H	1:6:646:GLN:HE22	1.60	0.50
1:e:328:ASN:HD21	1:q:331:VAL:HG11	1.77	0.50
1:f:481:GLY:HA3	1:f:607:TRP:HB3	1.94	0.50
1:f:485:ARG:NH1	1:f:576:SER:OG	2.44	0.50
1:k:519:ASN:O	1:k:520:PRO:C	2.55	0.50
1:o:441:ASP:OD2	1:p:550:ARG:NH1	2.41	0.50
1:q:311:LYS:HG3	1:q:686:GLU:HB2	1.93	0.50
1:q:429:SER:OG	1:q:735:ASN:OD1	2.29	0.50
1:u:481:GLY:HA3	1:u:607:TRP:HB3	1.94	0.50
1:x:311:LYS:HG3	1:x:686:GLU:HB2	1.93	0.50
1:8:519:ASN:O	1:8:520:PRO:C	2.55	0.50
1:A:331:VAL:HG11	1:E:328:ASN:HD21	1.77	0.50
1:A:527:HIS:HE1	1:A:564:GLU:HB2	1.77	0.50
1:C:343:GLN:HE21	1:C:650:LYS:HE2	1.76	0.50
1:H:429:SER:OG	1:H:735:ASN:OD1	2.29	0.50
1:I:331:VAL:HG11	1:J:328:ASN:HD21	1.77	0.50
1:P:485:ARG:NH1	1:P:576:SER:OG	2.44	0.50
1:R:481:GLY:HA3	1:R:607:TRP:HB3	1.94	0.50
1:Z:481:GLY:HA3	1:Z:607:TRP:HB3	1.94	0.50
1:b:563:GLU:OE2	1:b:613:TYR:OH	2.24	0.50
1:e:485:ARG:NH1	1:e:576:SER:OG	2.44	0.50
1:e:527:HIS:HE1	1:e:564:GLU:HB2	1.77	0.50
1:k:331:VAL:HG11	1:s:328:ASN:HD21	1.76	0.50
1:m:485:ARG:NH1	1:m:576:SER:OG	2.44	0.50
1:n:328:ASN:HD21	1:s:331:VAL:HG11	1.77	0.50
1:n:331:VAL:HG11	1:z:328:ASN:HD21	1.76	0.50
1:n:527:HIS:HE1	1:n:564:GLU:HB2	1.77	0.50
1:o:526:SER:OG	1:o:562:ASN:OD1	2.25	0.50
1:q:527:HIS:HE1	1:q:564:GLU:HB2	1.77	0.50
1:s:247:TRP:HZ2	1:s:317:LEU:HD11	1.75	0.50
1:s:311:LYS:HG3	1:s:686:GLU:HB2	1.93	0.50
1:t:481:GLY:HA3	1:t:607:TRP:HB3	1.94	0.50
1:u:343:GLN:HE21	1:u:650:LYS:HE2	1.76	0.50
1:u:355:VAL:H	1:u:646:GLN:HE22	1.60	0.50
1:w:429:SER:OG	1:w:735:ASN:OD1	2.29	0.50
1:A:519:ASN:O	1:A:520:PRO:C	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:709:ASN:OD1	1:E:387:GLN:NE2	2.44	0.50
1:B:550:ARG:NH1	1:L:441:ASP:OD2	2.41	0.50
1:C:243:SER:HB3	1:C:245:ARG:NH1	2.22	0.50
1:D:355:VAL:H	1:D:646:GLN:HE22	1.60	0.50
1:E:485:ARG:NH1	1:E:576:SER:OG	2.44	0.50
1:E:527:HIS:HE1	1:E:564:GLU:HB2	1.77	0.50
1:G:527:HIS:HE1	1:G:564:GLU:HB2	1.77	0.50
1:H:526:SER:OG	1:H:562:ASN:OD1	2.25	0.50
1:J:343:GLN:HE21	1:J:650:LYS:HE2	1.76	0.50
1:J:429:SER:OG	1:J:735:ASN:OD1	2.29	0.50
1:J:527:HIS:HE1	1:J:564:GLU:HB2	1.77	0.50
1:K:311:LYS:HG3	1:K:686:GLU:HB2	1.93	0.50
1:L:485:ARG:NH1	1:L:576:SER:OG	2.44	0.50
1:M:223:SER:OG	1:N:219:ASP:HB3	2.11	0.50
1:M:481:GLY:HA3	1:M:607:TRP:HB3	1.94	0.50
1:S:331:VAL:HG11	1:4:328:ASN:HD21	1.77	0.50
1:W:247:TRP:HZ2	1:W:317:LEU:HD11	1.75	0.50
1:Y:485:ARG:NH1	1:Y:576:SER:OG	2.44	0.50
1:2:527:HIS:HE1	1:2:564:GLU:HB2	1.77	0.50
1:a:355:VAL:H	1:a:646:GLN:HE22	1.60	0.50
1:i:429:SER:OG	1:i:735:ASN:OD1	2.29	0.50
1:j:481:GLY:HA3	1:j:607:TRP:HB3	1.94	0.50
1:k:343:GLN:HE21	1:k:650:LYS:HE2	1.76	0.50
1:q:519:ASN:O	1:q:520:PRO:C	2.55	0.50
1:r:309:ARG:O	1:r:686:GLU:N	2.42	0.50
1:r:527:HIS:HE1	1:r:564:GLU:HB2	1.77	0.50
1:s:343:GLN:HE21	1:s:650:LYS:HE2	1.76	0.50
1:7:485:ARG:NH1	1:7:576:SER:OG	2.44	0.50
1:8:485:ARG:NH1	1:8:576:SER:OG	2.44	0.50
1:C:355:VAL:H	1:C:646:GLN:HE22	1.60	0.49
1:C:519:ASN:O	1:C:520:PRO:C	2.55	0.49
1:G:309:ARG:O	1:G:686:GLU:N	2.42	0.49
1:H:343:GLN:HE21	1:H:650:LYS:HE2	1.76	0.49
1:I:317:LEU:HG	1:I:320:ILE:HD11	1.94	0.49
1:J:331:VAL:HG11	1:1:328:ASN:HD21	1.76	0.49
1:N:429:SER:OG	1:N:735:ASN:OD1	2.30	0.49
1:T:331:VAL:HG11	1:U:328:ASN:HD21	1.77	0.49
1:U:527:HIS:HE1	1:U:564:GLU:HB2	1.77	0.49
1:3:481:GLY:HA3	1:3:607:TRP:HB3	1.94	0.49
1:3:527:HIS:HE1	1:3:564:GLU:HB2	1.77	0.49
1:4:527:HIS:HE1	1:4:564:GLU:HB2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:485:ARG:NH1	1:b:576:SER:OG	2.44	0.49
1:c:485:ARG:NH1	1:c:576:SER:OG	2.44	0.49
1:c:526:SER:OG	1:c:562:ASN:OD1	2.25	0.49
1:g:481:GLY:HA3	1:g:607:TRP:HB3	1.94	0.49
1:m:519:ASN:O	1:m:520:PRO:C	2.55	0.49
1:n:563:GLU:OE2	1:n:613:TYR:OH	2.25	0.49
1:o:331:VAL:HG11	1:v:328:ASN:HD21	1.77	0.49
1:o:485:ARG:NH1	1:o:576:SER:OG	2.44	0.49
1:o:519:ASN:O	1:o:520:PRO:C	2.55	0.49
1:q:475:GLY:HA2	1:r:519:ASN:HB2	1.92	0.49
1:u:519:ASN:O	1:u:520:PRO:C	2.55	0.49
1:v:527:HIS:HE1	1:v:564:GLU:HB2	1.77	0.49
1:x:527:HIS:HE1	1:x:564:GLU:HB2	1.77	0.49
1:y:311:LYS:HG3	1:y:686:GLU:HB2	1.93	0.49
1:y:429:SER:OG	1:y:735:ASN:OD1	2.29	0.49
1:z:322:VAL:HG11	1:z:673:GLN:HE21	1.76	0.49
1:7:317:LEU:HG	1:7:320:ILE:HD11	1.94	0.49
1:8:309:ARG:O	1:8:686:GLU:N	2.42	0.49
1:8:317:LEU:HG	1:8:320:ILE:HD11	1.94	0.49
1:F:331:VAL:HG11	1:G:328:ASN:HD21	1.77	0.49
1:G:331:VAL:HG11	1:W:328:ASN:HD21	1.76	0.49
1:H:485:ARG:NH1	1:H:576:SER:OG	2.44	0.49
1:I:481:GLY:HA3	1:I:607:TRP:HB3	1.94	0.49
1:K:429:SER:OG	1:K:735:ASN:OD1	2.29	0.49
1:L:519:ASN:O	1:L:520:PRO:C	2.55	0.49
1:M:228:TRP:HB2	1:N:404:MET:HE3	1.94	0.49
1:O:429:SER:OG	1:O:735:ASN:OD1	2.29	0.49
1:Q:317:LEU:HG	1:Q:320:ILE:HD11	1.94	0.49
1:Q:485:ARG:NH1	1:Q:576:SER:OG	2.44	0.49
1:R:285:ASP:O	1:R:363:CYS:HA	2.13	0.49
1:T:485:ARG:NH1	1:T:576:SER:OG	2.44	0.49
1:U:481:GLY:HA3	1:U:607:TRP:HB3	1.94	0.49
1:Y:519:ASN:O	1:Y:520:PRO:C	2.55	0.49
1:Z:519:ASN:O	1:Z:520:PRO:C	2.55	0.49
1:5:481:GLY:HA3	1:5:607:TRP:HB3	1.94	0.49
1:6:247:TRP:HZ2	1:6:317:LEU:HD11	1.75	0.49
1:6:429:SER:OG	1:6:735:ASN:OD1	2.30	0.49
1:c:317:LEU:HG	1:c:320:ILE:HD11	1.94	0.49
1:c:519:ASN:O	1:c:520:PRO:C	2.55	0.49
1:d:331:VAL:HG11	1:r:328:ASN:HD21	1.77	0.49
1:e:404:MET:HE3	1:q:228:TRP:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:247:TRP:HZ2	1:f:317:LEU:HD11	1.75	0.49
1:f:285:ASP:O	1:f:363:CYS:HA	2.13	0.49
1:i:355:VAL:H	1:i:646:GLN:HE22	1.60	0.49
1:j:519:ASN:O	1:j:520:PRO:C	2.55	0.49
1:l:247:TRP:HZ2	1:l:317:LEU:HD11	1.75	0.49
1:n:317:LEU:HG	1:n:320:ILE:HD11	1.94	0.49
1:n:343:GLN:HE21	1:n:650:LYS:HE2	1.76	0.49
1:n:429:SER:OG	1:n:735:ASN:OD1	2.30	0.49
1:s:317:LEU:HG	1:s:320:ILE:HD11	1.94	0.49
1:w:355:VAL:H	1:w:646:GLN:HE22	1.60	0.49
1:x:481:GLY:HA3	1:x:607:TRP:HB3	1.94	0.49
1:7:309:ARG:O	1:7:686:GLU:N	2.42	0.49
1:B:481:GLY:HA3	1:B:607:TRP:HB3	1.94	0.49
1:D:328:ASN:HD21	1:E:331:VAL:HG11	1.77	0.49
1:F:481:GLY:HA3	1:F:607:TRP:HB3	1.94	0.49
1:I:247:TRP:HZ2	1:I:317:LEU:HD11	1.75	0.49
1:I:519:ASN:HB3	1:I:520:PRO:CD	2.43	0.49
1:J:317:LEU:HG	1:J:320:ILE:HD11	1.94	0.49
1:L:331:VAL:HG11	1:2:328:ASN:HD21	1.77	0.49
1:N:247:TRP:HZ2	1:N:317:LEU:HD11	1.75	0.49
1:O:481:GLY:HA3	1:O:607:TRP:HB3	1.94	0.49
1:O:527:HIS:HE1	1:O:564:GLU:HB2	1.77	0.49
1:P:698:GLU:OE2	1:P:733:THR:HG23	2.13	0.49
1:Q:519:ASN:O	1:Q:520:PRO:C	2.55	0.49
1:R:247:TRP:HZ2	1:R:317:LEU:HD11	1.75	0.49
1:S:485:ARG:NH1	1:S:576:SER:OG	2.44	0.49
1:S:519:ASN:HB3	1:S:520:PRO:CD	2.43	0.49
1:T:481:GLY:HA3	1:T:607:TRP:HB3	1.94	0.49
1:T:519:ASN:HB3	1:T:520:PRO:CD	2.43	0.49
1:U:317:LEU:HG	1:U:320:ILE:HD11	1.94	0.49
1:U:698:GLU:OE2	1:U:733:THR:HG23	2.13	0.49
1:V:322:VAL:HG11	1:V:673:GLN:HE21	1.76	0.49
1:V:485:ARG:NH1	1:V:576:SER:OG	2.44	0.49
1:W:285:ASP:O	1:W:363:CYS:HA	2.13	0.49
1:X:698:GLU:OE2	1:X:733:THR:HG23	2.13	0.49
1:Y:285:ASP:O	1:Y:363:CYS:HA	2.13	0.49
1:1:322:VAL:HG11	1:1:673:GLN:HE21	1.76	0.49
1:2:519:ASN:O	1:2:520:PRO:C	2.55	0.49
1:4:317:LEU:HG	1:4:320:ILE:HD11	1.94	0.49
1:4:481:GLY:HA3	1:4:607:TRP:HB3	1.94	0.49
1:4:698:GLU:OE2	1:4:733:THR:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:355:VAL:H	1:5:646:GLN:HE22	1.60	0.49
1:5:429:SER:OG	1:5:735:ASN:OD1	2.29	0.49
1:a:311:LYS:HG3	1:a:686:GLU:HB2	1.93	0.49
1:b:698:GLU:OE2	1:b:733:THR:HG23	2.13	0.49
1:g:698:GLU:OE2	1:g:733:THR:HG23	2.13	0.49
1:j:311:LYS:HG3	1:j:686:GLU:HB2	1.93	0.49
1:k:485:ARG:NH1	1:k:576:SER:OG	2.44	0.49
1:k:526:SER:OG	1:k:562:ASN:OD1	2.25	0.49
1:l:285:ASP:O	1:l:363:CYS:HA	2.13	0.49
1:l:328:ASN:HD21	1:r:331:VAL:HG11	1.76	0.49
1:m:285:ASP:O	1:m:363:CYS:HA	2.13	0.49
1:n:485:ARG:NH1	1:n:576:SER:OG	2.44	0.49
1:p:481:GLY:HA3	1:p:607:TRP:HB3	1.94	0.49
1:q:285:ASP:O	1:q:363:CYS:HA	2.13	0.49
1:r:317:LEU:HG	1:r:320:ILE:HD11	1.94	0.49
1:r:350:TYR:OH	1:r:643:PRO:O	2.22	0.49
1:s:481:GLY:HA3	1:s:607:TRP:HB3	1.94	0.49
1:u:526:SER:OG	1:u:562:ASN:OD1	2.25	0.49
1:v:228:TRP:HB2	1:w:404:MET:HE3	1.94	0.49
1:v:481:GLY:HA3	1:v:607:TRP:HB3	1.94	0.49
1:v:519:ASN:O	1:v:520:PRO:C	2.55	0.49
1:v:698:GLU:OE2	1:v:733:THR:HG23	2.13	0.49
1:7:481:GLY:HA3	1:7:607:TRP:HB3	1.94	0.49
1:A:285:ASP:O	1:A:363:CYS:HA	2.13	0.49
1:A:698:GLU:OE2	1:A:733:THR:HG23	2.13	0.49
1:B:698:GLU:OE2	1:B:733:THR:HG23	2.13	0.49
1:D:311:LYS:HG3	1:D:686:GLU:HB2	1.93	0.49
1:D:404:MET:HE3	1:E:228:TRP:HB2	1.94	0.49
1:G:317:LEU:HG	1:G:320:ILE:HD11	1.94	0.49
1:H:317:LEU:HG	1:H:320:ILE:HD11	1.94	0.49
1:J:275:PHE:CE2	1:J:388:ALA:HB2	2.48	0.49
1:J:485:ARG:NH1	1:J:576:SER:OG	2.44	0.49
1:J:563:GLU:OE2	1:J:613:TYR:OH	2.25	0.49
1:K:527:HIS:HE1	1:K:564:GLU:HB2	1.77	0.49
1:M:429:SER:OG	1:M:735:ASN:OD1	2.29	0.49
1:O:285:ASP:O	1:O:363:CYS:HA	2.13	0.49
1:O:355:VAL:H	1:O:646:GLN:HE22	1.60	0.49
1:Q:429:SER:OG	1:Q:735:ASN:OD1	2.29	0.49
1:Q:698:GLU:OE2	1:Q:733:THR:HG23	2.13	0.49
1:U:343:GLN:HE21	1:U:650:LYS:HE2	1.76	0.49
1:U:519:ASN:HB3	1:U:520:PRO:CD	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:519:ASN:HB3	1:V:520:PRO:CD	2.43	0.49
1:Y:317:LEU:HG	1:Y:320:ILE:HD11	1.94	0.49
1:Z:311:LYS:HG3	1:Z:686:GLU:HB2	1.93	0.49
1:Z:519:ASN:HB3	1:Z:520:PRO:CD	2.43	0.49
1:2:429:SER:OG	1:2:735:ASN:OD1	2.29	0.49
1:2:698:GLU:OE2	1:2:733:THR:HG23	2.13	0.49
1:3:404:MET:HE3	1:m:228:TRP:HB2	1.94	0.49
1:4:485:ARG:NH1	1:4:576:SER:OG	2.44	0.49
1:4:519:ASN:O	1:4:520:PRO:C	2.55	0.49
1:5:285:ASP:O	1:5:363:CYS:HA	2.13	0.49
1:b:519:ASN:HB3	1:b:520:PRO:CD	2.43	0.49
1:c:429:SER:OG	1:c:735:ASN:OD1	2.29	0.49
1:c:698:GLU:OE2	1:c:733:THR:HG23	2.13	0.49
1:d:317:LEU:HG	1:d:320:ILE:HD11	1.94	0.49
1:d:481:GLY:HA3	1:d:607:TRP:HB3	1.94	0.49
1:h:485:ARG:NH1	1:h:576:SER:OG	2.44	0.49
1:i:317:LEU:HG	1:i:320:ILE:HD11	1.94	0.49
1:i:527:HIS:HE1	1:i:564:GLU:HB2	1.77	0.49
1:l:481:GLY:HA3	1:l:607:TRP:HB3	1.94	0.49
1:m:519:ASN:HB3	1:m:520:PRO:CD	2.43	0.49
1:m:527:HIS:HE1	1:m:564:GLU:HB2	1.77	0.49
1:p:698:GLU:OE2	1:p:733:THR:HG23	2.13	0.49
1:q:698:GLU:OE2	1:q:733:THR:HG23	2.13	0.49
1:r:311:LYS:HG3	1:r:686:GLU:HB2	1.93	0.49
1:s:519:ASN:HB3	1:s:520:PRO:CD	2.43	0.49
1:u:527:HIS:HE1	1:u:564:GLU:HB2	1.77	0.49
1:v:309:ARG:O	1:v:686:GLU:N	2.42	0.49
1:v:429:SER:OG	1:v:735:ASN:OD1	2.29	0.49
1:w:527:HIS:HE1	1:w:564:GLU:HB2	1.77	0.49
1:y:328:ASN:HD21	1:8:331:VAL:HG11	1.77	0.49
1:A:228:TRP:HB2	1:E:404:MET:HE3	1.95	0.49
1:A:355:VAL:H	1:A:646:GLN:HE22	1.60	0.49
1:B:311:LYS:HG3	1:B:686:GLU:HB2	1.93	0.49
1:B:519:ASN:O	1:B:520:PRO:C	2.55	0.49
1:C:275:PHE:CE2	1:C:388:ALA:HB2	2.48	0.49
1:C:527:HIS:HE1	1:C:564:GLU:HB2	1.77	0.49
1:C:698:GLU:OE2	1:C:733:THR:HG23	2.13	0.49
1:E:519:ASN:HB3	1:E:520:PRO:CD	2.43	0.49
1:F:317:LEU:HG	1:F:320:ILE:HD11	1.94	0.49
1:H:311:LYS:HG3	1:H:686:GLU:HB2	1.93	0.49
1:H:331:VAL:HG11	1:I:328:ASN:HD21	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:328:ASN:HD21	1:7:331:VAL:HG11	1.77	0.49
1:N:317:LEU:HG	1:N:320:ILE:HD11	1.94	0.49
1:P:519:ASN:HB3	1:P:520:PRO:CD	2.43	0.49
1:Q:275:PHE:CE2	1:Q:388:ALA:HB2	2.48	0.49
1:S:481:GLY:HA3	1:S:607:TRP:HB3	1.94	0.49
1:U:485:ARG:NH1	1:U:576:SER:OG	2.44	0.49
1:U:519:ASN:O	1:U:520:PRO:C	2.55	0.49
1:V:481:GLY:HA3	1:V:607:TRP:HB3	1.94	0.49
1:W:317:LEU:HG	1:W:320:ILE:HD11	1.94	0.49
1:W:481:GLY:HA3	1:W:607:TRP:HB3	1.94	0.49
1:Y:527:HIS:HE1	1:Y:564:GLU:HB2	1.77	0.49
1:Z:698:GLU:OE2	1:Z:733:THR:HG23	2.13	0.49
1:1:275:PHE:CE2	1:1:388:ALA:HB2	2.48	0.49
1:1:285:ASP:O	1:1:363:CYS:HA	2.13	0.49
1:1:527:HIS:HE1	1:1:564:GLU:HB2	1.77	0.49
1:2:228:TRP:HB2	1:i:404:MET:HE3	1.94	0.49
1:2:309:ARG:O	1:2:686:GLU:N	2.42	0.49
1:2:481:GLY:HA3	1:2:607:TRP:HB3	1.94	0.49
1:4:343:GLN:HE21	1:4:650:LYS:HE2	1.76	0.49
1:4:519:ASN:HB3	1:4:520:PRO:CD	2.43	0.49
1:d:519:ASN:HB3	1:d:520:PRO:CD	2.43	0.49
1:e:311:LYS:HG3	1:e:686:GLU:HB2	1.93	0.49
1:h:322:VAL:HG11	1:h:673:GLN:HE21	1.76	0.49
1:h:519:ASN:HB3	1:h:520:PRO:CD	2.43	0.49
1:i:698:GLU:OE2	1:i:733:THR:HG23	2.13	0.49
1:j:519:ASN:HB3	1:j:520:PRO:CD	2.43	0.49
1:j:698:GLU:OE2	1:j:733:THR:HG23	2.13	0.49
1:k:317:LEU:HG	1:k:320:ILE:HD11	1.94	0.49
1:l:317:LEU:HG	1:l:320:ILE:HD11	1.94	0.49
1:l:343:GLN:HE21	1:l:650:LYS:HE2	1.76	0.49
1:l:404:MET:HE3	1:r:228:TRP:HB2	1.95	0.49
1:l:527:HIS:HE1	1:l:564:GLU:HB2	1.77	0.49
1:m:317:LEU:HG	1:m:320:ILE:HD11	1.94	0.49
1:n:275:PHE:CE2	1:n:388:ALA:HB2	2.48	0.49
1:n:519:ASN:HB3	1:n:520:PRO:CD	2.43	0.49
1:p:328:ASN:HD21	1:u:331:VAL:HG11	1.77	0.49
1:p:519:ASN:O	1:p:520:PRO:C	2.55	0.49
1:s:698:GLU:OE2	1:s:733:THR:HG23	2.13	0.49
1:t:328:ASN:HD21	1:x:331:VAL:HG11	1.77	0.49
1:t:429:SER:OG	1:t:735:ASN:OD1	2.29	0.49
1:t:698:GLU:OE2	1:t:733:THR:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:275:PHE:CE2	1:u:388:ALA:HB2	2.48	0.49
1:w:317:LEU:HG	1:w:320:ILE:HD11	1.94	0.49
1:y:275:PHE:CE2	1:y:388:ALA:HB2	2.48	0.49
1:y:527:HIS:HE1	1:y:564:GLU:HB2	1.77	0.49
1:z:275:PHE:CE2	1:z:388:ALA:HB2	2.48	0.49
1:z:285:ASP:O	1:z:363:CYS:HA	2.13	0.49
1:8:481:GLY:HA3	1:8:607:TRP:HB3	1.94	0.49
1:A:317:LEU:HG	1:A:320:ILE:HD11	1.94	0.49
1:A:519:ASN:HB2	1:I:475:GLY:HA2	1.93	0.49
1:B:328:ASN:HD21	1:C:331:VAL:HG11	1.77	0.49
1:C:285:ASP:O	1:C:363:CYS:HA	2.13	0.49
1:D:285:ASP:O	1:D:363:CYS:HA	2.13	0.49
1:E:311:LYS:HG3	1:E:686:GLU:HB2	1.93	0.49
1:F:519:ASN:HB3	1:F:520:PRO:CD	2.43	0.49
1:G:311:LYS:HG3	1:G:686:GLU:HB2	1.93	0.49
1:J:519:ASN:HB3	1:J:520:PRO:CD	2.43	0.49
1:K:275:PHE:CE2	1:K:388:ALA:HB2	2.48	0.49
1:L:429:SER:OG	1:L:735:ASN:OD1	2.29	0.49
1:L:481:GLY:HA3	1:L:607:TRP:HB3	1.94	0.49
1:M:311:LYS:HG3	1:M:686:GLU:HB2	1.93	0.49
1:M:328:ASN:HD21	1:3:331:VAL:HG11	1.77	0.49
1:N:285:ASP:O	1:N:363:CYS:HA	2.13	0.49
1:P:527:HIS:HE1	1:P:564:GLU:HB2	1.77	0.49
1:U:275:PHE:CE2	1:U:388:ALA:HB2	2.48	0.49
1:X:317:LEU:HG	1:X:320:ILE:HD11	1.94	0.49
1:X:355:VAL:H	1:X:646:GLN:HE22	1.60	0.49
1:Y:228:TRP:HB2	1:x:404:MET:HE3	1.94	0.49
1:Y:519:ASN:HB3	1:Y:520:PRO:CD	2.43	0.49
1:1:311:LYS:HG3	1:1:686:GLU:HB2	1.93	0.49
1:3:275:PHE:CE2	1:3:388:ALA:HB2	2.48	0.49
1:4:275:PHE:CE2	1:4:388:ALA:HB2	2.48	0.49
1:4:475:GLY:HA2	1:f:519:ASN:HB2	1.92	0.49
1:6:285:ASP:O	1:6:363:CYS:HA	2.13	0.49
1:a:285:ASP:O	1:a:363:CYS:HA	2.13	0.49
1:a:328:ASN:HD21	1:e:331:VAL:HG11	1.77	0.49
1:b:527:HIS:HE1	1:b:564:GLU:HB2	1.77	0.49
1:c:275:PHE:CE2	1:c:388:ALA:HB2	2.48	0.49
1:d:350:TYR:OH	1:d:643:PRO:O	2.22	0.49
1:d:563:GLU:OE2	1:d:613:TYR:OH	2.25	0.49
1:e:481:GLY:HA3	1:e:607:TRP:HB3	1.94	0.49
1:e:519:ASN:HB3	1:e:520:PRO:CD	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:317:LEU:HG	1:g:320:ILE:HD11	1.94	0.49
1:h:481:GLY:HA3	1:h:607:TRP:HB3	1.94	0.49
1:i:519:ASN:O	1:i:520:PRO:C	2.55	0.49
1:n:404:MET:HE3	1:s:228:TRP:HB2	1.95	0.49
1:o:429:SER:OG	1:o:735:ASN:OD1	2.29	0.49
1:p:311:LYS:HG3	1:p:686:GLU:HB2	1.93	0.49
1:q:355:VAL:H	1:q:646:GLN:HE22	1.60	0.49
1:t:404:MET:HE3	1:x:228:TRP:HB2	1.95	0.49
1:u:698:GLU:OE2	1:u:733:THR:HG23	2.13	0.49
1:v:343:GLN:HE21	1:v:650:LYS:HE2	1.76	0.49
1:w:698:GLU:OE2	1:w:733:THR:HG23	2.13	0.49
1:x:275:PHE:CE2	1:x:388:ALA:HB2	2.48	0.49
1:y:481:GLY:HA3	1:y:607:TRP:HB3	1.94	0.49
1:z:527:HIS:HE1	1:z:564:GLU:HB2	1.77	0.49
1:A:526:SER:OG	1:A:562:ASN:OD1	2.25	0.49
1:B:285:ASP:O	1:B:363:CYS:HA	2.13	0.49
1:B:355:VAL:H	1:B:646:GLN:HE22	1.60	0.49
1:D:527:HIS:HE1	1:D:564:GLU:HB2	1.77	0.49
1:E:322:VAL:HG11	1:E:673:GLN:HE21	1.76	0.49
1:G:228:TRP:HB2	1:W:404:MET:HE3	1.95	0.49
1:G:350:TYR:OH	1:G:643:PRO:O	2.22	0.49
1:J:698:GLU:OE2	1:J:733:THR:HG23	2.13	0.49
1:K:481:GLY:HA3	1:K:607:TRP:HB3	1.94	0.49
1:L:525:ALA:O	1:L:573:ALA:N	2.34	0.49
1:M:519:ASN:HB3	1:M:520:PRO:CD	2.43	0.49
1:M:698:GLU:OE2	1:M:733:THR:HG23	2.13	0.49
1:R:519:ASN:HB2	1:U:475:GLY:HA2	1.93	0.49
1:T:285:ASP:O	1:T:363:CYS:HA	2.13	0.49
1:V:275:PHE:CE2	1:V:388:ALA:HB2	2.48	0.49
1:W:343:GLN:HE21	1:W:650:LYS:HE2	1.76	0.49
1:W:527:HIS:HE1	1:W:564:GLU:HB2	1.77	0.49
1:2:275:PHE:CE2	1:2:388:ALA:HB2	2.48	0.49
1:3:355:VAL:H	1:3:646:GLN:HE22	1.60	0.49
1:5:527:HIS:HE1	1:5:564:GLU:HB2	1.77	0.49
1:a:698:GLU:OE2	1:a:733:THR:HG23	2.13	0.49
1:d:309:ARG:O	1:d:686:GLU:N	2.42	0.49
1:g:355:VAL:H	1:g:646:GLN:HE22	1.60	0.49
1:h:275:PHE:CE2	1:h:388:ALA:HB2	2.48	0.49
1:k:311:LYS:HG3	1:k:686:GLU:HB2	1.93	0.49
1:m:698:GLU:OE2	1:m:733:THR:HG23	2.13	0.49
1:o:481:GLY:HA3	1:o:607:TRP:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:355:VAL:H	1:p:646:GLN:HE22	1.60	0.49
1:q:317:LEU:HG	1:q:320:ILE:HD11	1.94	0.49
1:q:497:ASN:HA	1:s:587:ALA:HA	1.95	0.49
1:t:311:LYS:HG3	1:t:686:GLU:HB2	1.93	0.49
1:t:519:ASN:HB3	1:t:520:PRO:CD	2.43	0.49
1:u:285:ASP:O	1:u:363:CYS:HA	2.13	0.49
1:v:275:PHE:CE2	1:v:388:ALA:HB2	2.48	0.49
1:v:519:ASN:HB3	1:v:520:PRO:CD	2.43	0.49
1:w:519:ASN:O	1:w:520:PRO:C	2.55	0.49
1:x:285:ASP:O	1:x:363:CYS:HA	2.13	0.49
1:x:429:SER:OG	1:x:735:ASN:OD1	2.29	0.49
1:z:311:LYS:HG3	1:z:686:GLU:HB2	1.93	0.49
1:7:527:HIS:HE1	1:7:564:GLU:HB2	1.77	0.49
1:B:527:HIS:HE1	1:B:564:GLU:HB2	1.77	0.49
1:D:698:GLU:OE2	1:D:733:THR:HG23	2.13	0.49
1:E:481:GLY:HA3	1:E:607:TRP:HB3	1.94	0.49
1:F:350:TYR:OH	1:F:643:PRO:O	2.22	0.49
1:G:285:ASP:O	1:G:363:CYS:HA	2.13	0.49
1:I:285:ASP:O	1:I:363:CYS:HA	2.13	0.49
1:I:698:GLU:OE2	1:I:733:THR:HG23	2.13	0.49
1:J:285:ASP:O	1:J:363:CYS:HA	2.13	0.49
1:K:404:MET:HE3	1:7:228:TRP:HB2	1.95	0.49
1:L:228:TRP:HB2	1:2:404:MET:HE3	1.95	0.49
1:L:519:ASN:HB3	1:L:520:PRO:CD	2.43	0.49
1:M:404:MET:HE3	1:3:228:TRP:HB2	1.95	0.49
1:O:404:MET:HE3	1:4:228:TRP:HB2	1.95	0.49
1:O:519:ASN:O	1:O:520:PRO:C	2.55	0.49
1:P:331:VAL:HG11	1:Q:328:ASN:HD21	1.77	0.49
1:P:481:GLY:HA3	1:P:607:TRP:HB3	1.94	0.49
1:R:519:ASN:O	1:R:520:PRO:C	2.55	0.49
1:S:285:ASP:O	1:S:363:CYS:HA	2.13	0.49
1:S:317:LEU:HG	1:S:320:ILE:HD11	1.94	0.49
1:U:228:TRP:HB2	1:5:404:MET:HE3	1.95	0.49
1:Y:698:GLU:OE2	1:Y:733:THR:HG23	2.13	0.49
1:Z:317:LEU:HG	1:Z:320:ILE:HD11	1.94	0.49
1:2:519:ASN:HB3	1:2:520:PRO:CD	2.43	0.49
1:3:285:ASP:O	1:3:363:CYS:HA	2.13	0.49
1:3:429:SER:OG	1:3:735:ASN:OD1	2.29	0.49
1:5:519:ASN:O	1:5:520:PRO:C	2.55	0.49
1:6:317:LEU:HG	1:6:320:ILE:HD11	1.94	0.49
1:a:404:MET:HE3	1:e:228:TRP:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:527:HIS:HE1	1:a:564:GLU:HB2	1.77	0.49
1:b:481:GLY:HA3	1:b:607:TRP:HB3	1.94	0.49
1:e:322:VAL:HG11	1:e:673:GLN:HE21	1.75	0.49
1:f:519:ASN:O	1:f:520:PRO:C	2.55	0.49
1:h:285:ASP:O	1:h:363:CYS:HA	2.13	0.49
1:i:519:ASN:HB3	1:i:520:PRO:CD	2.43	0.49
1:j:317:LEU:HG	1:j:320:ILE:HD11	1.94	0.49
1:n:698:GLU:OE2	1:n:733:THR:HG23	2.13	0.49
1:o:519:ASN:HB3	1:o:520:PRO:CD	2.43	0.49
1:p:285:ASP:O	1:p:363:CYS:HA	2.13	0.49
1:q:519:ASN:HB2	1:s:475:GLY:HA2	1.93	0.49
1:s:285:ASP:O	1:s:363:CYS:HA	2.13	0.49
1:t:519:ASN:O	1:t:520:PRO:C	2.55	0.49
1:x:355:VAL:H	1:x:646:GLN:HE22	1.60	0.49
1:z:519:ASN:HB3	1:z:520:PRO:CD	2.43	0.49
1:B:404:MET:HE3	1:C:228:TRP:HB2	1.95	0.49
1:D:317:LEU:HG	1:D:320:ILE:HD11	1.94	0.49
1:D:694:ARG:HH21	1:D:696:ASN:HD21	1.61	0.49
1:F:309:ARG:O	1:F:686:GLU:N	2.42	0.49
1:F:519:ASN:O	1:F:520:PRO:C	2.55	0.49
1:H:275:PHE:CE2	1:H:388:ALA:HB2	2.48	0.49
1:I:228:TRP:HB2	1:J:404:MET:HE3	1.95	0.49
1:J:519:ASN:O	1:J:520:PRO:C	2.55	0.49
1:K:698:GLU:OE2	1:K:733:THR:HG23	2.13	0.49
1:M:519:ASN:O	1:M:520:PRO:C	2.55	0.49
1:N:519:ASN:HB3	1:N:520:PRO:CD	2.43	0.49
1:P:694:ARG:HH21	1:P:696:ASN:HD21	1.61	0.49
1:Q:694:ARG:HH21	1:Q:696:ASN:HD21	1.61	0.49
1:T:317:LEU:HG	1:T:320:ILE:HD11	1.94	0.49
1:V:285:ASP:O	1:V:363:CYS:HA	2.13	0.49
1:W:694:ARG:HH21	1:W:696:ASN:HD21	1.61	0.49
1:X:228:TRP:HB2	1:Y:404:MET:HE3	1.95	0.49
1:Y:311:LYS:HG3	1:Y:686:GLU:HB2	1.93	0.49
1:Z:404:MET:HE3	1:1:228:TRP:HB2	1.94	0.49
1:Z:527:HIS:HE1	1:Z:564:GLU:HB2	1.77	0.49
1:1:519:ASN:HB3	1:1:520:PRO:CD	2.43	0.49
1:2:343:GLN:HE21	1:2:650:LYS:HE2	1.76	0.49
1:a:317:LEU:HG	1:a:320:ILE:HD11	1.94	0.49
1:b:331:VAL:HG11	1:c:328:ASN:HD21	1.77	0.49
1:b:355:VAL:H	1:b:646:GLN:HE22	1.60	0.49
1:c:694:ARG:HH21	1:c:696:ASN:HD21	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:519:ASN:O	1:d:520:PRO:C	2.55	0.49
1:h:311:LYS:HG3	1:h:686:GLU:HB2	1.93	0.49
1:j:527:HIS:HE1	1:j:564:GLU:HB2	1.77	0.49
1:l:694:ARG:HH21	1:l:696:ASN:HD21	1.61	0.49
1:m:694:ARG:HH21	1:m:696:ASN:HD21	1.61	0.49
1:n:285:ASP:O	1:n:363:CYS:HA	2.13	0.49
1:n:519:ASN:O	1:n:520:PRO:C	2.55	0.49
1:r:285:ASP:O	1:r:363:CYS:HA	2.13	0.49
1:t:527:HIS:HE1	1:t:564:GLU:HB2	1.77	0.49
1:v:285:ASP:O	1:v:363:CYS:HA	2.13	0.49
1:v:331:VAL:HG11	1:w:328:ASN:HD21	1.77	0.49
1:w:275:PHE:CE2	1:w:388:ALA:HB2	2.48	0.49
1:w:519:ASN:HB3	1:w:520:PRO:CD	2.43	0.49
1:y:404:MET:HE3	1:8:228:TRP:HB2	1.95	0.49
1:y:519:ASN:O	1:y:520:PRO:C	2.55	0.49
1:z:350:TYR:OH	1:z:643:PRO:O	2.22	0.49
1:8:285:ASP:O	1:8:363:CYS:HA	2.13	0.49
1:8:527:HIS:HE1	1:8:564:GLU:HB2	1.77	0.49
1:E:698:GLU:OE2	1:E:733:THR:HG23	2.13	0.49
1:F:404:MET:HE3	1:R:228:TRP:HB2	1.94	0.49
1:H:328:ASN:HD21	1:Z:331:VAL:HG11	1.77	0.49
1:K:285:ASP:O	1:K:363:CYS:HA	2.13	0.49
1:K:519:ASN:O	1:K:520:PRO:C	2.55	0.49
1:N:228:TRP:HB2	1:g:404:MET:CE	2.43	0.49
1:N:527:HIS:HE1	1:N:564:GLU:HB2	1.77	0.49
1:N:709:ASN:OD1	1:g:387:GLN:NE2	2.45	0.49
1:P:519:ASN:O	1:P:520:PRO:C	2.55	0.49
1:R:404:MET:HE3	1:V:228:TRP:HB2	1.95	0.49
1:V:317:LEU:HG	1:V:320:ILE:HD11	1.94	0.49
1:Y:331:VAL:HG11	1:x:328:ASN:HD21	1.77	0.49
1:Y:694:ARG:HH21	1:Y:696:ASN:HD21	1.61	0.49
1:1:317:LEU:HG	1:1:320:ILE:HD11	1.94	0.49
1:1:350:TYR:OH	1:1:643:PRO:O	2.22	0.49
1:2:331:VAL:HG11	1:i:328:ASN:HD21	1.77	0.49
1:5:698:GLU:OE2	1:5:733:THR:HG23	2.13	0.49
1:6:519:ASN:HB3	1:6:520:PRO:CD	2.43	0.49
1:a:694:ARG:HH21	1:a:696:ASN:HD21	1.61	0.49
1:b:519:ASN:O	1:b:520:PRO:C	2.55	0.49
1:b:694:ARG:HH21	1:b:696:ASN:HD21	1.61	0.49
1:d:404:MET:HE3	1:f:228:TRP:HB2	1.94	0.49
1:f:404:MET:HE3	1:h:228:TRP:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:317:LEU:HG	1:h:320:ILE:HD11	1.94	0.49
1:h:563:GLU:OE2	1:h:613:TYR:OH	2.25	0.49
1:i:275:PHE:CE2	1:i:388:ALA:HB2	2.48	0.49
1:j:285:ASP:O	1:j:363:CYS:HA	2.13	0.49
1:k:228:TRP:HB2	1:s:404:MET:HE3	1.95	0.49
1:k:275:PHE:CE2	1:k:388:ALA:HB2	2.48	0.49
1:m:311:LYS:HG3	1:m:686:GLU:HB2	1.93	0.49
1:q:526:SER:OG	1:q:562:ASN:OD1	2.25	0.49
1:t:317:LEU:HG	1:t:320:ILE:HD11	1.94	0.49
1:w:563:GLU:OE2	1:w:613:TYR:OH	2.24	0.49
1:y:698:GLU:OE2	1:y:733:THR:HG23	2.13	0.49
1:z:317:LEU:HG	1:z:320:ILE:HD11	1.94	0.49
1:7:285:ASP:O	1:7:363:CYS:HA	2.13	0.49
1:B:519:ASN:HB3	1:B:520:PRO:CD	2.43	0.48
1:C:328:ASN:HD21	1:D:331:VAL:HG11	1.77	0.48
1:E:275:PHE:CE2	1:E:388:ALA:HB2	2.48	0.48
1:F:694:ARG:HH21	1:F:696:ASN:HD21	1.61	0.48
1:H:698:GLU:OE2	1:H:733:THR:HG23	2.13	0.48
1:I:275:PHE:CE2	1:I:388:ALA:HB2	2.48	0.48
1:K:317:LEU:HG	1:K:320:ILE:HD11	1.94	0.48
1:L:285:ASP:O	1:L:363:CYS:HA	2.13	0.48
1:M:317:LEU:HG	1:M:320:ILE:HD11	1.94	0.48
1:P:355:VAL:H	1:P:646:GLN:HE22	1.60	0.48
1:R:519:ASN:HB3	1:R:520:PRO:CD	2.43	0.48
1:S:698:GLU:OE2	1:S:733:THR:HG23	2.13	0.48
1:V:311:LYS:HG3	1:V:686:GLU:HB2	1.93	0.48
1:V:563:GLU:OE2	1:V:613:TYR:OH	2.25	0.48
1:X:527:HIS:HE1	1:X:564:GLU:HB2	1.77	0.48
1:2:285:ASP:O	1:2:363:CYS:HA	2.13	0.48
1:3:698:GLU:OE2	1:3:733:THR:HG23	2.13	0.48
1:5:519:ASN:HB3	1:5:520:PRO:CD	2.43	0.48
1:6:404:MET:HE3	1:t:228:TRP:HB2	1.95	0.48
1:d:694:ARG:HH21	1:d:696:ASN:HD21	1.61	0.48
1:e:275:PHE:CE2	1:e:388:ALA:HB2	2.48	0.48
1:f:519:ASN:HB3	1:f:520:PRO:CD	2.43	0.48
1:g:228:TRP:HB2	1:m:404:MET:HE3	1.95	0.48
1:g:309:ARG:O	1:g:686:GLU:N	2.42	0.48
1:i:285:ASP:O	1:i:363:CYS:HA	2.13	0.48
1:j:331:VAL:HG11	1:k:328:ASN:HD21	1.77	0.48
1:j:404:MET:HE3	1:z:228:TRP:HB2	1.94	0.48
1:k:698:GLU:OE2	1:k:733:THR:HG23	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:228:TRP:HB2	1:v:404:MET:HE3	1.95	0.48
1:o:698:GLU:OE2	1:o:733:THR:HG23	2.13	0.48
1:p:404:MET:HE3	1:u:228:TRP:HB2	1.95	0.48
1:p:519:ASN:HB3	1:p:520:PRO:CD	2.43	0.48
1:p:527:HIS:HE1	1:p:564:GLU:HB2	1.77	0.48
1:s:275:PHE:CE2	1:s:388:ALA:HB2	2.48	0.48
1:w:285:ASP:O	1:w:363:CYS:HA	2.13	0.48
1:y:285:ASP:O	1:y:363:CYS:HA	2.13	0.48
1:y:317:LEU:HG	1:y:320:ILE:HD11	1.94	0.48
1:8:519:ASN:HB3	1:8:520:PRO:CD	2.43	0.48
1:B:317:LEU:HG	1:B:320:ILE:HD11	1.94	0.48
1:G:275:PHE:CE2	1:G:388:ALA:HB2	2.48	0.48
1:G:481:GLY:HA3	1:G:607:TRP:HB3	1.94	0.48
1:L:309:ARG:O	1:L:686:GLU:N	2.42	0.48
1:L:317:LEU:HG	1:L:320:ILE:HD11	1.94	0.48
1:L:527:HIS:HE1	1:L:564:GLU:HB2	1.77	0.48
1:L:698:GLU:OE2	1:L:733:THR:HG23	2.13	0.48
1:M:527:HIS:HE1	1:M:564:GLU:HB2	1.77	0.48
1:O:698:GLU:OE2	1:O:733:THR:HG23	2.13	0.48
1:P:317:LEU:HG	1:P:320:ILE:HD11	1.94	0.48
1:U:285:ASP:O	1:U:363:CYS:HA	2.13	0.48
1:W:519:ASN:HB3	1:W:520:PRO:CD	2.43	0.48
1:X:309:ARG:O	1:X:686:GLU:N	2.42	0.48
1:X:526:SER:OG	1:X:562:ASN:OD1	2.25	0.48
1:Z:285:ASP:O	1:Z:363:CYS:HA	2.13	0.48
1:6:328:ASN:HD21	1:t:331:VAL:HG11	1.77	0.48
1:a:331:VAL:HG11	1:u:328:ASN:HD21	1.77	0.48
1:b:317:LEU:HG	1:b:320:ILE:HD11	1.94	0.48
1:e:698:GLU:OE2	1:e:733:THR:HG23	2.13	0.48
1:g:331:VAL:HG11	1:m:328:ASN:HD21	1.77	0.48
1:g:519:ASN:HB3	1:g:520:PRO:CD	2.43	0.48
1:l:519:ASN:HB3	1:l:520:PRO:CD	2.43	0.48
1:o:285:ASP:O	1:o:363:CYS:HA	2.13	0.48
1:p:275:PHE:CE2	1:p:388:ALA:HB2	2.48	0.48
1:p:317:LEU:HG	1:p:320:ILE:HD11	1.94	0.48
1:r:275:PHE:CE2	1:r:388:ALA:HB2	2.48	0.48
1:r:481:GLY:HA3	1:r:607:TRP:HB3	1.94	0.48
1:s:694:ARG:HH21	1:s:696:ASN:HD21	1.61	0.48
1:7:519:ASN:HB3	1:7:520:PRO:CD	2.43	0.48
1:A:328:ASN:HD21	1:B:331:VAL:HG11	1.77	0.48
1:B:275:PHE:CE2	1:B:388:ALA:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:228:TRP:HB2	1:G:404:MET:HE3	1.95	0.48
1:F:497:ASN:HA	1:Q:587:ALA:HA	1.96	0.48
1:I:694:ARG:HH21	1:I:696:ASN:HD21	1.61	0.48
1:J:481:GLY:HA3	1:J:607:TRP:HB3	1.94	0.48
1:J:587:ALA:HA	1:L:497:ASN:HA	1.96	0.48
1:K:331:VAL:HG11	1:L:328:ASN:HD21	1.77	0.48
1:N:698:GLU:OE2	1:N:733:THR:HG23	2.13	0.48
1:O:519:ASN:HB3	1:O:520:PRO:CD	2.43	0.48
1:Q:519:ASN:HB3	1:Q:520:PRO:CD	2.43	0.48
1:R:497:ASN:HA	1:U:587:ALA:HA	1.95	0.48
1:T:698:GLU:OE2	1:T:733:THR:HG23	2.13	0.48
1:V:328:ASN:HD21	1:W:331:VAL:HG11	1.77	0.48
1:V:519:ASN:O	1:V:520:PRO:C	2.55	0.48
1:X:519:ASN:HB3	1:X:520:PRO:CD	2.43	0.48
1:3:328:ASN:HD21	1:m:331:VAL:HG11	1.77	0.48
1:4:285:ASP:O	1:4:363:CYS:HA	2.13	0.48
1:5:694:ARG:HH21	1:5:696:ASN:HD21	1.61	0.48
1:6:527:HIS:HE1	1:6:564:GLU:HB2	1.77	0.48
1:c:497:ASN:HA	1:e:587:ALA:HA	1.96	0.48
1:c:587:ALA:HA	1:d:497:ASN:HA	1.96	0.48
1:d:228:TRP:HB2	1:r:404:MET:HE3	1.95	0.48
1:g:527:HIS:HE1	1:g:564:GLU:HB2	1.77	0.48
1:h:519:ASN:O	1:h:520:PRO:C	2.55	0.48
1:i:563:GLU:OE2	1:i:613:TYR:OH	2.24	0.48
1:n:481:GLY:HA3	1:n:607:TRP:HB3	1.94	0.48
1:o:317:LEU:HG	1:o:320:ILE:HD11	1.94	0.48
1:o:328:ASN:HD21	1:y:331:VAL:HG11	1.77	0.48
1:r:698:GLU:OE2	1:r:733:THR:HG23	2.13	0.48
1:t:587:ALA:HA	1:u:497:ASN:HA	1.96	0.48
1:w:526:SER:OG	1:w:562:ASN:OD1	2.25	0.48
1:x:698:GLU:OE2	1:x:733:THR:HG23	2.13	0.48
1:y:355:VAL:H	1:y:646:GLN:HE22	1.60	0.48
1:z:309:ARG:O	1:z:686:GLU:N	2.42	0.48
1:A:497:ASN:HA	1:I:587:ALA:HA	1.96	0.48
1:D:481:GLY:HA3	1:D:607:TRP:HB3	1.94	0.48
1:E:317:LEU:HG	1:E:320:ILE:HD11	1.94	0.48
1:E:519:ASN:O	1:E:520:PRO:C	2.55	0.48
1:E:587:ALA:HA	1:Q:497:ASN:HA	1.96	0.48
1:G:519:ASN:HB3	1:G:520:PRO:CD	2.43	0.48
1:H:228:TRP:HB2	1:I:404:MET:HE3	1.95	0.48
1:K:355:VAL:H	1:K:646:GLN:HE22	1.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:519:ASN:HB3	1:K:520:PRO:CD	2.43	0.48
1:Q:527:HIS:HE1	1:Q:564:GLU:HB2	1.77	0.48
1:R:275:PHE:CE2	1:R:388:ALA:HB2	2.48	0.48
1:T:275:PHE:CE2	1:T:388:ALA:HB2	2.48	0.48
1:X:331:VAL:HG11	1:Y:328:ASN:HD21	1.77	0.48
1:X:694:ARG:HH21	1:X:696:ASN:HD21	1.61	0.48
1:Z:275:PHE:CE2	1:Z:388:ALA:HB2	2.48	0.48
1:3:317:LEU:HG	1:3:320:ILE:HD11	1.94	0.48
1:4:587:ALA:HA	1:f:497:ASN:HA	1.95	0.48
1:6:519:ASN:O	1:6:520:PRO:C	2.55	0.48
1:6:698:GLU:OE2	1:6:733:THR:HG23	2.13	0.48
1:c:519:ASN:HB3	1:c:520:PRO:CD	2.43	0.48
1:e:519:ASN:O	1:e:520:PRO:C	2.55	0.48
1:f:275:PHE:CE2	1:f:388:ALA:HB2	2.48	0.48
1:g:694:ARG:HH21	1:g:696:ASN:HD21	1.61	0.48
1:i:331:VAL:HG11	1:7:328:ASN:HD21	1.77	0.48
1:j:309:ARG:O	1:j:686:GLU:N	2.42	0.48
1:k:527:HIS:HE1	1:k:564:GLU:HB2	1.77	0.48
1:l:275:PHE:CE2	1:l:388:ALA:HB2	2.48	0.48
1:n:587:ALA:HA	1:o:497:ASN:HA	1.96	0.48
1:v:350:TYR:OH	1:v:643:PRO:O	2.22	0.48
1:w:694:ARG:HH21	1:w:696:ASN:HD21	1.61	0.48
1:7:698:GLU:OE2	1:7:733:THR:HG23	2.13	0.48
1:A:694:ARG:HH21	1:A:696:ASN:HD21	1.61	0.48
1:C:497:ASN:HA	1:M:587:ALA:HA	1.96	0.48
1:G:698:GLU:OE2	1:G:733:THR:HG23	2.13	0.48
1:L:275:PHE:CE2	1:L:388:ALA:HB2	2.48	0.48
1:N:519:ASN:O	1:N:520:PRO:C	2.55	0.48
1:O:694:ARG:HH21	1:O:696:ASN:HD21	1.61	0.48
1:S:275:PHE:CE2	1:S:388:ALA:HB2	2.48	0.48
1:W:275:PHE:CE2	1:W:388:ALA:HB2	2.48	0.48
1:W:587:ALA:HA	1:Y:497:ASN:HA	1.95	0.48
1:X:275:PHE:CE2	1:X:388:ALA:HB2	2.48	0.48
1:X:497:ASN:HA	1:5:587:ALA:HA	1.96	0.48
1:1:587:ALA:HA	1:8:497:ASN:HA	1.96	0.48
1:3:587:ALA:HA	1:i:497:ASN:HA	1.96	0.48
1:6:497:ASN:HA	1:a:587:ALA:HA	1.96	0.48
1:a:519:ASN:HB3	1:a:520:PRO:CD	2.43	0.48
1:e:317:LEU:HG	1:e:320:ILE:HD11	1.94	0.48
1:g:285:ASP:O	1:g:363:CYS:HA	2.13	0.48
1:h:328:ASN:HD21	1:l:331:VAL:HG11	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:527:HIS:HE1	1:h:564:GLU:HB2	1.77	0.48
1:i:694:ARG:HH21	1:i:696:ASN:HD21	1.61	0.48
1:j:275:PHE:CE2	1:j:388:ALA:HB2	2.48	0.48
1:o:309:ARG:O	1:o:686:GLU:N	2.42	0.48
1:o:527:HIS:HE1	1:o:564:GLU:HB2	1.77	0.48
1:p:331:VAL:HG11	1:q:328:ASN:HD21	1.77	0.48
1:q:481:GLY:HA3	1:q:607:TRP:HB3	1.94	0.48
1:r:519:ASN:HB3	1:r:520:PRO:CD	2.43	0.48
1:w:331:VAL:HG11	1:8:328:ASN:HD21	1.77	0.48
1:x:317:LEU:HG	1:x:320:ILE:HD11	1.94	0.48
1:y:519:ASN:HB3	1:y:520:PRO:CD	2.43	0.48
1:z:587:ALA:HA	1:7:497:ASN:HA	1.96	0.48
1:z:698:GLU:OE2	1:z:733:THR:HG23	2.13	0.48
1:8:698:GLU:OE2	1:8:733:THR:HG23	2.13	0.48
1:B:497:ASN:HA	1:L:587:ALA:HA	1.96	0.48
1:D:519:ASN:HB3	1:D:520:PRO:CD	2.43	0.48
1:H:519:ASN:HB3	1:H:520:PRO:CD	2.43	0.48
1:O:587:ALA:HA	1:g:497:ASN:HA	1.96	0.48
1:P:285:ASP:O	1:P:363:CYS:HA	2.13	0.48
1:X:285:ASP:O	1:X:363:CYS:HA	2.13	0.48
1:Z:309:ARG:O	1:Z:686:GLU:N	2.42	0.48
1:1:309:ARG:O	1:1:686:GLU:N	2.42	0.48
1:1:698:GLU:OE2	1:1:733:THR:HG23	2.13	0.48
1:5:526:SER:OG	1:5:562:ASN:OD1	2.25	0.48
1:a:481:GLY:HA3	1:a:607:TRP:HB3	1.94	0.48
1:b:275:PHE:CE2	1:b:388:ALA:HB2	2.48	0.48
1:c:355:VAL:H	1:c:646:GLN:HE22	1.60	0.48
1:d:527:HIS:HE1	1:d:564:GLU:HB2	1.77	0.48
1:e:285:ASP:O	1:e:363:CYS:HA	2.13	0.48
1:g:275:PHE:CE2	1:g:388:ALA:HB2	2.48	0.48
1:k:517:LEU:HD12	1:k:518:MET:N	2.29	0.48
1:k:519:ASN:HB3	1:k:520:PRO:CD	2.43	0.48
1:l:587:ALA:HA	1:m:497:ASN:HA	1.95	0.48
1:l:698:GLU:OE2	1:l:733:THR:HG23	2.13	0.48
1:o:275:PHE:CE2	1:o:388:ALA:HB2	2.48	0.48
1:q:275:PHE:CE2	1:q:388:ALA:HB2	2.48	0.48
1:q:694:ARG:HH21	1:q:696:ASN:HD21	1.61	0.48
1:r:355:VAL:H	1:r:646:GLN:HE22	1.60	0.48
1:s:527:HIS:HE1	1:s:564:GLU:HB2	1.77	0.48
1:w:497:ASN:HA	1:x:587:ALA:HA	1.96	0.48
1:A:275:PHE:CE2	1:A:388:ALA:HB2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:404:MET:HE3	1:D:228:TRP:HB2	1.95	0.48
1:E:285:ASP:O	1:E:363:CYS:HA	2.13	0.48
1:E:431:SER:HA	1:E:568:THR:HB	1.96	0.48
1:F:517:LEU:HD12	1:F:518:MET:N	2.29	0.48
1:G:355:VAL:H	1:G:646:GLN:HE22	1.60	0.48
1:H:517:LEU:HD12	1:H:518:MET:N	2.29	0.48
1:H:527:HIS:HE1	1:H:564:GLU:HB2	1.77	0.48
1:I:527:HIS:HE1	1:I:564:GLU:HB2	1.77	0.48
1:K:694:ARG:HH21	1:K:696:ASN:HD21	1.61	0.48
1:M:285:ASP:O	1:M:363:CYS:HA	2.13	0.48
1:N:431:SER:HA	1:N:568:THR:HB	1.96	0.48
1:O:275:PHE:CE2	1:O:388:ALA:HB2	2.48	0.48
1:V:526:SER:OG	1:V:562:ASN:OD1	2.25	0.48
1:V:698:GLU:OE2	1:V:733:THR:HG23	2.13	0.48
1:X:219:ASP:HB3	1:6:223:SER:OG	2.14	0.48
1:X:404:MET:HE3	1:6:228:TRP:HB2	1.95	0.48
1:X:563:GLU:OE2	1:X:613:TYR:OH	2.25	0.48
1:6:431:SER:HA	1:6:568:THR:HB	1.96	0.48
1:b:517:LEU:HD12	1:b:518:MET:N	2.29	0.48
1:c:527:HIS:HE1	1:c:564:GLU:HB2	1.77	0.48
1:d:698:GLU:OE2	1:d:733:THR:HG23	2.13	0.48
1:g:526:SER:OG	1:g:562:ASN:OD1	2.25	0.48
1:h:526:SER:OG	1:h:562:ASN:OD1	2.25	0.48
1:o:404:MET:HE3	1:y:228:TRP:HB2	1.95	0.48
1:o:587:ALA:HA	1:p:497:ASN:HA	1.96	0.48
1:p:694:ARG:HH21	1:p:696:ASN:HD21	1.61	0.48
1:t:285:ASP:O	1:t:363:CYS:HA	2.13	0.48
1:t:355:VAL:H	1:t:646:GLN:HE22	1.60	0.48
1:t:694:ARG:HH21	1:t:696:ASN:HD21	1.61	0.48
1:u:309:ARG:O	1:u:686:GLU:N	2.42	0.48
1:y:694:ARG:HH21	1:y:696:ASN:HD21	1.61	0.48
1:7:355:VAL:H	1:7:646:GLN:HE22	1.60	0.48
1:A:481:GLY:HA3	1:A:607:TRP:HB3	1.94	0.48
1:B:694:ARG:HH21	1:B:696:ASN:HD21	1.61	0.48
1:C:309:ARG:O	1:C:686:GLU:N	2.42	0.48
1:C:587:ALA:HA	1:2:497:ASN:HA	1.95	0.48
1:F:527:HIS:HE1	1:F:564:GLU:HB2	1.77	0.48
1:I:563:GLU:OE2	1:I:613:TYR:OH	2.25	0.48
1:J:223:SER:OG	1:1:219:ASP:HB3	2.14	0.48
1:M:275:PHE:CE2	1:M:388:ALA:HB2	2.48	0.48
1:M:309:ARG:O	1:M:686:GLU:N	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:355:VAL:H	1:M:646:GLN:HE22	1.60	0.48
1:M:431:SER:HA	1:M:568:THR:HB	1.96	0.48
1:M:694:ARG:HH21	1:M:696:ASN:HD21	1.61	0.48
1:P:228:TRP:HB2	1:Q:404:MET:HE3	1.94	0.48
1:P:275:PHE:CE2	1:P:388:ALA:HB2	2.48	0.48
1:P:517:LEU:HD12	1:P:518:MET:N	2.29	0.48
1:S:527:HIS:HE1	1:S:564:GLU:HB2	1.77	0.48
1:V:527:HIS:HE1	1:V:564:GLU:HB2	1.77	0.48
1:W:698:GLU:OE2	1:W:733:THR:HG23	2.13	0.48
1:1:431:SER:HA	1:1:568:THR:HB	1.96	0.48
1:2:350:TYR:OH	1:2:643:PRO:O	2.22	0.48
1:3:517:LEU:HD12	1:3:518:MET:N	2.29	0.48
1:5:275:PHE:CE2	1:5:388:ALA:HB2	2.48	0.48
1:a:228:TRP:HB2	1:u:404:MET:HE3	1.95	0.48
1:a:563:GLU:OE2	1:a:613:TYR:OH	2.25	0.48
1:b:228:TRP:HB2	1:c:404:MET:HE3	1.94	0.48
1:b:285:ASP:O	1:b:363:CYS:HA	2.13	0.48
1:b:431:SER:HA	1:b:568:THR:HB	1.96	0.48
1:c:285:ASP:O	1:c:363:CYS:HA	2.13	0.48
1:d:517:LEU:HD12	1:d:518:MET:N	2.29	0.48
1:e:431:SER:HA	1:e:568:THR:HB	1.96	0.48
1:g:519:ASN:O	1:g:520:PRO:C	2.55	0.48
1:i:228:TRP:HB2	1:7:404:MET:HE3	1.95	0.48
1:p:228:TRP:HB2	1:q:404:MET:HE3	1.95	0.48
1:t:275:PHE:CE2	1:t:388:ALA:HB2	2.48	0.48
1:u:519:ASN:HB3	1:u:520:PRO:CD	2.43	0.48
1:u:587:ALA:HA	1:v:497:ASN:HA	1.95	0.48
1:z:431:SER:HA	1:z:568:THR:HB	1.96	0.48
1:8:355:VAL:H	1:8:646:GLN:HE22	1.60	0.48
1:A:309:ARG:O	1:A:686:GLU:N	2.42	0.48
1:C:519:ASN:HB3	1:C:520:PRO:CD	2.43	0.48
1:E:694:ARG:HH21	1:E:696:ASN:HD21	1.61	0.48
1:F:698:GLU:OE2	1:F:733:THR:HG23	2.13	0.48
1:K:228:TRP:HB2	1:L:404:MET:HE3	1.95	0.48
1:K:309:ARG:O	1:K:686:GLU:N	2.42	0.48
1:K:431:SER:HA	1:K:568:THR:HB	1.96	0.48
1:P:431:SER:HA	1:P:568:THR:HB	1.96	0.48
1:Q:285:ASP:O	1:Q:363:CYS:HA	2.13	0.48
1:Q:355:VAL:H	1:Q:646:GLN:HE22	1.60	0.48
1:V:355:VAL:H	1:V:646:GLN:HE22	1.60	0.48
1:V:517:LEU:HD12	1:V:518:MET:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:694:ARG:HH21	1:1:696:ASN:HD21	1.61	0.48
1:2:223:SER:OG	1:i:219:ASP:HB3	2.14	0.48
1:5:228:TRP:HB2	1:b:404:MET:HE3	1.95	0.48
1:d:285:ASP:O	1:d:363:CYS:HA	2.13	0.48
1:e:219:ASP:HB3	1:q:223:SER:OG	2.14	0.48
1:f:698:GLU:OE2	1:f:733:THR:HG23	2.13	0.48
1:g:563:GLU:OE2	1:g:613:TYR:OH	2.25	0.48
1:h:219:ASP:HB3	1:l:223:SER:OG	2.14	0.48
1:h:431:SER:HA	1:h:568:THR:HB	1.96	0.48
1:h:517:LEU:HD12	1:h:518:MET:N	2.29	0.48
1:h:698:GLU:OE2	1:h:733:THR:HG23	2.13	0.48
1:m:517:LEU:HD12	1:m:518:MET:N	2.29	0.48
1:n:223:SER:OG	1:z:219:ASP:HB3	2.14	0.48
1:n:309:ARG:O	1:n:686:GLU:N	2.42	0.48
1:t:431:SER:HA	1:t:568:THR:HB	1.96	0.48
1:v:223:SER:OG	1:w:219:ASP:HB3	2.14	0.48
1:v:563:GLU:OE2	1:v:613:TYR:OH	2.24	0.48
1:x:517:LEU:HD12	1:x:518:MET:N	2.29	0.48
1:y:431:SER:HA	1:y:568:THR:HB	1.96	0.48
1:8:275:PHE:CE2	1:8:388:ALA:HB2	2.48	0.48
1:A:404:MET:HE3	1:B:228:TRP:HB2	1.95	0.48
1:A:519:ASN:HB3	1:A:520:PRO:CD	2.43	0.48
1:D:497:ASN:HA	1:P:587:ALA:HA	1.95	0.48
1:N:275:PHE:CE2	1:N:388:ALA:HB2	2.48	0.48
1:O:228:TRP:HB2	1:P:404:MET:HE3	1.95	0.48
1:O:526:SER:OG	1:O:562:ASN:OD1	2.25	0.48
1:S:223:SER:OG	1:4:219:ASP:HB3	2.14	0.48
1:T:223:SER:OG	1:U:219:ASP:HB3	2.14	0.48
1:T:527:HIS:HE1	1:T:564:GLU:HB2	1.77	0.48
1:V:219:ASP:HB3	1:W:223:SER:OG	2.14	0.48
1:V:431:SER:HA	1:V:568:THR:HB	1.96	0.48
1:X:519:ASN:O	1:X:520:PRO:C	2.55	0.48
1:Y:517:LEU:HD12	1:Y:518:MET:N	2.29	0.48
1:5:431:SER:HA	1:5:568:THR:HB	1.96	0.48
1:6:587:ALA:HA	1:b:497:ASN:HA	1.95	0.48
1:j:517:LEU:HD12	1:j:518:MET:N	2.29	0.48
1:k:285:ASP:O	1:k:363:CYS:HA	2.13	0.48
1:q:309:ARG:O	1:q:686:GLU:N	2.42	0.48
1:s:519:ASN:O	1:s:520:PRO:C	2.55	0.48
1:v:431:SER:HA	1:v:568:THR:HB	1.96	0.48
1:w:228:TRP:HB2	1:8:404:MET:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:517:LEU:HD12	1:y:518:MET:N	2.29	0.48
1:7:431:SER:HA	1:7:568:THR:HB	1.96	0.48
1:8:431:SER:HA	1:8:568:THR:HB	1.96	0.48
1:A:223:SER:OG	1:E:219:ASP:HB3	2.14	0.47
1:D:693:LYS:HD3	1:N:400:PHE:CE1	2.48	0.47
1:H:285:ASP:O	1:H:363:CYS:HA	2.13	0.47
1:I:223:SER:OG	1:J:219:ASP:HB3	2.14	0.47
1:K:517:LEU:HD12	1:K:518:MET:N	2.29	0.47
1:L:431:SER:HA	1:L:568:THR:HB	1.96	0.47
1:R:431:SER:HA	1:R:568:THR:HB	1.96	0.47
1:R:698:GLU:OE2	1:R:733:THR:HG23	2.13	0.47
1:S:228:TRP:HB2	1:4:404:MET:HE3	1.95	0.47
1:S:517:LEU:HD12	1:S:518:MET:N	2.29	0.47
1:T:228:TRP:HB2	1:U:404:MET:HE3	1.95	0.47
1:T:517:LEU:HD12	1:T:518:MET:N	2.29	0.47
1:V:497:ASN:HA	1:X:587:ALA:HA	1.95	0.47
1:X:223:SER:OG	1:Y:219:ASP:HB3	2.14	0.47
1:Z:517:LEU:HD12	1:Z:518:MET:N	2.29	0.47
1:2:431:SER:HA	1:2:568:THR:HB	1.96	0.47
1:3:519:ASN:HB3	1:3:520:PRO:CD	2.43	0.47
1:3:526:SER:OG	1:3:562:ASN:OD1	2.25	0.47
1:5:317:LEU:HG	1:5:320:ILE:HD11	1.94	0.47
1:6:275:PHE:CE2	1:6:388:ALA:HB2	2.48	0.47
1:c:431:SER:HA	1:c:568:THR:HB	1.96	0.47
1:d:219:ASP:HB3	1:f:223:SER:OG	2.14	0.47
1:e:694:ARG:HH21	1:e:696:ASN:HD21	1.61	0.47
1:f:527:HIS:HE1	1:f:564:GLU:HB2	1.77	0.47
1:g:223:SER:OG	1:m:219:ASP:HB3	2.14	0.47
1:i:325:VAL:HG22	1:i:334:ILE:HG12	1.96	0.47
1:n:219:ASP:HB3	1:s:223:SER:OG	2.14	0.47
1:n:228:TRP:HB2	1:z:404:MET:HE3	1.95	0.47
1:o:431:SER:HA	1:o:568:THR:HB	1.96	0.47
1:q:519:ASN:HB3	1:q:520:PRO:CD	2.43	0.47
1:t:309:ARG:O	1:t:686:GLU:N	2.42	0.47
1:u:431:SER:HA	1:u:568:THR:HB	1.96	0.47
1:x:431:SER:HA	1:x:568:THR:HB	1.96	0.47
1:x:526:SER:OG	1:x:562:ASN:OD1	2.25	0.47
1:z:694:ARG:HH21	1:z:696:ASN:HD21	1.61	0.47
1:7:275:PHE:CE2	1:7:388:ALA:HB2	2.48	0.47
1:B:517:LEU:HD12	1:B:518:MET:N	2.29	0.47
1:D:517:LEU:HD12	1:D:518:MET:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:563:GLU:OE2	1:D:613:TYR:OH	2.25	0.47
1:E:379:TYR:OH	1:E:395:TYR:N	2.36	0.47
1:F:219:ASP:HB3	1:R:223:SER:OG	2.14	0.47
1:F:285:ASP:O	1:F:363:CYS:HA	2.13	0.47
1:G:223:SER:OG	1:W:219:ASP:HB3	2.14	0.47
1:G:694:ARG:HH21	1:G:696:ASN:HD21	1.61	0.47
1:H:219:ASP:HB3	1:Z:223:SER:OG	2.15	0.47
1:H:325:VAL:HG22	1:H:334:ILE:HG12	1.97	0.47
1:I:355:VAL:H	1:I:646:GLN:HE22	1.60	0.47
1:I:519:ASN:O	1:I:520:PRO:C	2.55	0.47
1:K:497:ASN:HA	1:8:587:ALA:HA	1.96	0.47
1:M:228:TRP:HB3	1:N:402:SER:O	2.15	0.47
1:N:587:ALA:HA	1:P:497:ASN:HA	1.96	0.47
1:O:317:LEU:HG	1:O:320:ILE:HD11	1.94	0.47
1:O:431:SER:HA	1:O:568:THR:HB	1.96	0.47
1:Q:228:TRP:HB2	1:S:404:MET:HE3	1.95	0.47
1:Q:431:SER:HA	1:Q:568:THR:HB	1.96	0.47
1:R:317:LEU:HG	1:R:320:ILE:HD11	1.94	0.47
1:R:527:HIS:HE1	1:R:564:GLU:HB2	1.77	0.47
1:U:431:SER:HA	1:U:568:THR:HB	1.96	0.47
1:V:404:MET:HE3	1:W:228:TRP:HB2	1.95	0.47
1:W:517:LEU:HD12	1:W:518:MET:N	2.29	0.47
1:3:431:SER:HA	1:3:568:THR:HB	1.96	0.47
1:a:517:LEU:HD12	1:a:518:MET:N	2.29	0.47
1:c:517:LEU:HD12	1:c:518:MET:N	2.29	0.47
1:f:431:SER:HA	1:f:568:THR:HB	1.96	0.47
1:h:355:VAL:H	1:h:646:GLN:HE22	1.60	0.47
1:h:404:MET:HE3	1:l:228:TRP:HB2	1.95	0.47
1:j:223:SER:OG	1:k:219:ASP:HB3	2.15	0.47
1:k:325:VAL:HG22	1:k:334:ILE:HG12	1.96	0.47
1:l:219:ASP:HB3	1:r:223:SER:OG	2.14	0.47
1:s:355:VAL:H	1:s:646:GLN:HE22	1.60	0.47
1:w:325:VAL:HG22	1:w:334:ILE:HG12	1.97	0.47
1:y:309:ARG:O	1:y:686:GLU:N	2.42	0.47
1:y:325:VAL:HG22	1:y:334:ILE:HG12	1.96	0.47
1:y:497:ASN:HA	1:7:587:ALA:HA	1.96	0.47
1:B:431:SER:HA	1:B:568:THR:HB	1.96	0.47
1:C:431:SER:HA	1:C:568:THR:HB	1.96	0.47
1:D:275:PHE:CE2	1:D:388:ALA:HB2	2.48	0.47
1:F:275:PHE:CE2	1:F:388:ALA:HB2	2.48	0.47
1:H:355:VAL:H	1:H:646:GLN:HE22	1.60	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:694:ARG:HH21	1:H:696:ASN:HD21	1.61	0.47
1:J:228:TRP:HB2	1:1:404:MET:HE3	1.95	0.47
1:J:309:ARG:O	1:J:686:GLU:N	2.42	0.47
1:K:325:VAL:HG22	1:K:334:ILE:HG12	1.96	0.47
1:N:331:VAL:HG11	1:g:328:ASN:HD21	1.79	0.47
1:O:497:ASN:HA	1:h:587:ALA:HA	1.96	0.47
1:Q:517:LEU:HD12	1:Q:518:MET:N	2.29	0.47
1:S:361:GLU:HG3	1:S:362:GLY:N	2.30	0.47
1:1:519:ASN:O	1:1:520:PRO:C	2.55	0.47
1:2:563:GLU:OE2	1:2:613:TYR:OH	2.25	0.47
1:4:431:SER:HA	1:4:568:THR:HB	1.96	0.47
1:f:309:ARG:O	1:f:686:GLU:N	2.42	0.47
1:g:587:ALA:HA	1:h:497:ASN:HA	1.95	0.47
1:k:355:VAL:H	1:k:646:GLN:HE22	1.60	0.47
1:k:694:ARG:HH21	1:k:696:ASN:HD21	1.61	0.47
1:m:275:PHE:CE2	1:m:388:ALA:HB2	2.48	0.47
1:p:517:LEU:HD12	1:p:518:MET:N	2.29	0.47
1:q:587:ALA:HA	1:r:497:ASN:HA	1.96	0.47
1:r:694:ARG:HH21	1:r:696:ASN:HD21	1.61	0.47
1:x:519:ASN:HB3	1:x:520:PRO:CD	2.43	0.47
1:7:361:GLU:HG3	1:7:362:GLY:N	2.30	0.47
1:8:361:GLU:HG3	1:8:362:GLY:N	2.30	0.47
1:E:497:ASN:HA	1:F:587:ALA:HA	1.96	0.47
1:E:693:LYS:HD3	1:Q:400:PHE:CE1	2.50	0.47
1:F:361:GLU:HG3	1:F:362:GLY:N	2.30	0.47
1:K:587:ALA:HA	1:1:497:ASN:HA	1.95	0.47
1:T:404:MET:HE3	1:c:228:TRP:HB2	1.95	0.47
1:V:587:ALA:HA	1:5:497:ASN:HA	1.96	0.47
1:X:431:SER:HA	1:X:568:THR:HB	1.96	0.47
1:Y:275:PHE:CE2	1:Y:388:ALA:HB2	2.48	0.47
1:Y:355:VAL:H	1:Y:646:GLN:HE22	1.60	0.47
1:Z:355:VAL:H	1:Z:646:GLN:HE22	1.60	0.47
1:Z:587:ALA:HA	1:x:497:ASN:HA	1.96	0.47
1:1:355:VAL:H	1:1:646:GLN:HE22	1.60	0.47
1:a:497:ASN:HA	1:b:587:ALA:HA	1.96	0.47
1:c:400:PHE:CE1	1:e:693:LYS:HD3	2.50	0.47
1:l:517:LEU:HD12	1:l:518:MET:N	2.29	0.47
1:p:219:ASP:HB3	1:u:223:SER:OG	2.14	0.47
1:u:317:LEU:HG	1:u:320:ILE:HD11	1.94	0.47
1:B:219:ASP:HB3	1:C:223:SER:OG	2.14	0.47
1:B:361:GLU:HG3	1:B:362:GLY:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:317:LEU:HG	1:C:320:ILE:HD11	1.94	0.47
1:D:400:PHE:CE1	1:P:693:LYS:HD3	2.50	0.47
1:D:431:SER:HA	1:D:568:THR:HB	1.96	0.47
1:F:431:SER:HA	1:F:568:THR:HB	1.96	0.47
1:H:361:GLU:HG3	1:H:362:GLY:N	2.30	0.47
1:H:400:PHE:CE1	1:Y:693:LYS:HD3	2.50	0.47
1:H:404:MET:HE3	1:Z:228:TRP:HB2	1.95	0.47
1:H:587:ALA:HA	1:W:497:ASN:HA	1.96	0.47
1:L:325:VAL:HG22	1:L:334:ILE:HG12	1.97	0.47
1:M:497:ASN:HA	1:2:587:ALA:HA	1.95	0.47
1:O:223:SER:OG	1:P:219:ASP:HB3	2.14	0.47
1:R:219:ASP:HB3	1:V:223:SER:OG	2.14	0.47
1:2:694:ARG:HH21	1:2:696:ASN:HD21	1.61	0.47
1:3:563:GLU:OE2	1:3:613:TYR:OH	2.25	0.47
1:a:275:PHE:CE2	1:a:388:ALA:HB2	2.48	0.47
1:d:275:PHE:CE2	1:d:388:ALA:HB2	2.48	0.47
1:f:317:LEU:HG	1:f:320:ILE:HD11	1.94	0.47
1:j:355:VAL:H	1:j:646:GLN:HE22	1.60	0.47
1:p:361:GLU:HG3	1:p:362:GLY:N	2.30	0.47
1:t:400:PHE:CE1	1:v:693:LYS:HD3	2.50	0.47
1:v:694:ARG:HH21	1:v:696:ASN:HD21	1.61	0.47
1:y:587:ALA:HA	1:z:497:ASN:HA	1.95	0.47
1:z:519:ASN:O	1:z:520:PRO:C	2.55	0.47
1:O:693:LYS:HD3	1:g:400:PHE:CE1	2.50	0.47
1:R:309:ARG:O	1:R:686:GLU:N	2.42	0.47
1:W:431:SER:HA	1:W:568:THR:HB	1.96	0.47
1:X:400:PHE:CE1	1:5:693:LYS:HD3	2.50	0.47
1:Z:400:PHE:CE1	1:w:693:LYS:HD3	2.50	0.47
1:Z:497:ASN:HA	1:w:587:ALA:HA	1.96	0.47
1:2:317:LEU:HG	1:2:320:ILE:HD11	1.94	0.47
1:d:361:GLU:HG3	1:d:362:GLY:N	2.30	0.47
1:d:587:ALA:HA	1:e:497:ASN:HA	1.96	0.47
1:f:219:ASP:HB3	1:h:223:SER:OG	2.14	0.47
1:g:431:SER:HA	1:g:568:THR:HB	1.96	0.47
1:i:587:ALA:HA	1:j:497:ASN:HA	1.96	0.47
1:k:361:GLU:HG3	1:k:362:GLY:N	2.30	0.47
1:k:400:PHE:CE1	1:m:693:LYS:HD3	2.50	0.47
1:m:309:ARG:O	1:m:686:GLU:N	2.42	0.47
1:o:325:VAL:HG22	1:o:334:ILE:HG12	1.97	0.47
1:p:431:SER:HA	1:p:568:THR:HB	1.96	0.47
1:q:350:TYR:OH	1:q:643:PRO:O	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:693:LYS:HD3	1:s:400:PHE:CE1	2.50	0.47
1:A:350:TYR:OH	1:A:643:PRO:O	2.22	0.47
1:C:400:PHE:CE1	1:M:693:LYS:HD3	2.50	0.47
1:D:519:ASN:O	1:D:520:PRO:C	2.55	0.47
1:D:587:ALA:HA	1:N:497:ASN:HA	1.97	0.47
1:G:261:SER:HB3	1:G:275:PHE:CD1	2.50	0.47
1:G:693:LYS:HD3	1:I:400:PHE:CE1	2.50	0.47
1:H:431:SER:HA	1:H:568:THR:HB	1.96	0.47
1:J:355:VAL:H	1:J:646:GLN:HE22	1.60	0.47
1:J:431:SER:HA	1:J:568:THR:HB	1.96	0.47
1:K:261:SER:HB3	1:K:275:PHE:CD1	2.50	0.47
1:M:325:VAL:HG22	1:M:334:ILE:HG12	1.97	0.47
1:M:400:PHE:CE1	1:2:693:LYS:HD3	2.50	0.47
1:N:261:SER:HB3	1:N:275:PHE:CD1	2.50	0.47
1:N:309:ARG:O	1:N:686:GLU:N	2.42	0.47
1:N:325:VAL:HG22	1:N:334:ILE:HG12	1.96	0.47
1:N:529:GLU:HB2	1:P:512:ASN:OD1	2.15	0.47
1:O:219:ASP:HB3	1:4:223:SER:OG	2.14	0.47
1:O:261:SER:HB3	1:O:275:PHE:CD1	2.50	0.47
1:P:325:VAL:HG22	1:P:334:ILE:HG12	1.97	0.47
1:R:325:VAL:HG22	1:R:334:ILE:HG12	1.97	0.47
1:R:361:GLU:HG3	1:R:362:GLY:N	2.30	0.47
1:R:587:ALA:HA	1:S:497:ASN:HA	1.96	0.47
1:T:497:ASN:HA	1:f:587:ALA:HA	1.96	0.47
1:W:309:ARG:O	1:W:686:GLU:N	2.42	0.47
1:X:517:LEU:HD12	1:X:518:MET:N	2.29	0.47
1:Y:261:SER:HB3	1:Y:275:PHE:CD1	2.50	0.47
1:Y:309:ARG:O	1:Y:686:GLU:N	2.42	0.47
1:Z:219:ASP:HB3	1:1:223:SER:OG	2.14	0.47
1:Z:431:SER:HA	1:Z:568:THR:HB	1.96	0.47
1:Z:693:LYS:HD3	1:x:400:PHE:CE1	2.50	0.47
1:2:325:VAL:HG22	1:2:334:ILE:HG12	1.97	0.47
1:3:400:PHE:CE1	1:j:693:LYS:HD3	2.50	0.47
1:3:497:ASN:HA	1:j:587:ALA:HA	1.96	0.47
1:4:694:ARG:HH21	1:4:696:ASN:HD21	1.61	0.47
1:5:223:SER:OG	1:b:219:ASP:HB3	2.14	0.47
1:5:261:SER:HB3	1:5:275:PHE:CD1	2.50	0.47
1:6:261:SER:HB3	1:6:275:PHE:CD1	2.50	0.47
1:6:325:VAL:HG22	1:6:334:ILE:HG12	1.96	0.47
1:a:223:SER:OG	1:u:219:ASP:HB3	2.14	0.47
1:a:400:PHE:CE1	1:b:693:LYS:HD3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:431:SER:HA	1:a:568:THR:HB	1.96	0.47
1:b:223:SER:OG	1:c:219:ASP:HB3	2.14	0.47
1:b:325:VAL:HG22	1:b:334:ILE:HG12	1.97	0.47
1:d:431:SER:HA	1:d:568:THR:HB	1.96	0.47
1:f:325:VAL:HG22	1:f:334:ILE:HG12	1.97	0.47
1:f:361:GLU:HG3	1:f:362:GLY:N	2.30	0.47
1:g:517:LEU:HD12	1:g:518:MET:N	2.29	0.47
1:i:431:SER:HA	1:i:568:THR:HB	1.96	0.47
1:i:693:LYS:HD3	1:j:400:PHE:CE1	2.50	0.47
1:j:219:ASP:HB3	1:z:223:SER:OG	2.14	0.47
1:j:228:TRP:HB2	1:k:404:MET:HE3	1.95	0.47
1:k:431:SER:HA	1:k:568:THR:HB	1.96	0.47
1:k:587:ALA:HA	1:l:497:ASN:HA	1.96	0.47
1:l:431:SER:HA	1:l:568:THR:HB	1.96	0.47
1:m:261:SER:HB3	1:m:275:PHE:CD1	2.50	0.47
1:m:355:VAL:H	1:m:646:GLN:HE22	1.60	0.47
1:n:431:SER:HA	1:n:568:THR:HB	1.96	0.47
1:p:223:SER:OG	1:q:219:ASP:HB3	2.14	0.47
1:r:325:VAL:HG22	1:r:334:ILE:HG12	1.96	0.47
1:t:219:ASP:HB3	1:x:223:SER:OG	2.14	0.47
1:t:325:VAL:HG22	1:t:334:ILE:HG12	1.97	0.47
1:t:497:ASN:HA	1:v:587:ALA:HA	1.96	0.47
1:t:693:LYS:HD3	1:u:400:PHE:CE1	2.50	0.47
1:u:261:SER:HB3	1:u:275:PHE:CD1	2.50	0.47
1:v:317:LEU:HG	1:v:320:ILE:HD11	1.94	0.47
1:v:325:VAL:HG22	1:v:334:ILE:HG12	1.97	0.47
1:w:400:PHE:CE1	1:x:693:LYS:HD3	2.50	0.47
1:w:431:SER:HA	1:w:568:THR:HB	1.96	0.47
1:x:563:GLU:OE2	1:x:613:TYR:OH	2.25	0.47
1:y:219:ASP:HB3	1:8:223:SER:OG	2.14	0.47
1:y:261:SER:HB3	1:y:275:PHE:CD1	2.50	0.47
1:z:355:VAL:H	1:z:646:GLN:HE22	1.60	0.47
1:A:693:LYS:HD3	1:G:400:PHE:CE1	2.50	0.47
1:B:587:ALA:HA	1:J:497:ASN:HA	1.95	0.47
1:C:219:ASP:HB3	1:D:223:SER:OG	2.14	0.47
1:C:261:SER:HB3	1:C:275:PHE:CD1	2.50	0.47
1:D:325:VAL:HG22	1:D:334:ILE:HG12	1.97	0.47
1:E:400:PHE:CE1	1:F:693:LYS:HD3	2.50	0.47
1:G:325:VAL:HG22	1:G:334:ILE:HG12	1.97	0.47
1:K:219:ASP:HB3	1:7:223:SER:OG	2.14	0.47
1:L:261:SER:HB3	1:L:275:PHE:CD1	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:694:ARG:HH21	1:L:696:ASN:HD21	1.61	0.47
1:M:219:ASP:HB3	1:3:223:SER:OG	2.15	0.47
1:O:517:LEU:HD12	1:O:518:MET:N	2.29	0.47
1:P:223:SER:OG	1:Q:219:ASP:HB3	2.14	0.47
1:Q:325:VAL:HG22	1:Q:334:ILE:HG12	1.97	0.47
1:R:261:SER:HB3	1:R:275:PHE:CD1	2.50	0.47
1:U:325:VAL:HG22	1:U:334:ILE:HG12	1.96	0.47
1:V:325:VAL:HG22	1:V:334:ILE:HG12	1.97	0.47
1:V:361:GLU:HG3	1:V:362:GLY:N	2.30	0.47
1:Z:694:ARG:HH21	1:Z:696:ASN:HD21	1.61	0.47
1:3:693:LYS:HD3	1:i:400:PHE:CE1	2.50	0.47
1:4:325:VAL:HG22	1:4:334:ILE:HG12	1.96	0.47
1:a:325:VAL:HG22	1:a:334:ILE:HG12	1.97	0.47
1:c:325:VAL:HG22	1:c:334:ILE:HG12	1.97	0.47
1:f:261:SER:HB3	1:f:275:PHE:CD1	2.50	0.47
1:h:325:VAL:HG22	1:h:334:ILE:HG12	1.97	0.47
1:h:350:TYR:OH	1:h:643:PRO:O	2.22	0.47
1:h:361:GLU:HG3	1:h:362:GLY:N	2.30	0.47
1:j:431:SER:HA	1:j:568:THR:HB	1.96	0.47
1:j:694:ARG:HH21	1:j:696:ASN:HD21	1.61	0.47
1:o:261:SER:HB3	1:o:275:PHE:CD1	2.50	0.47
1:r:261:SER:HB3	1:r:275:PHE:CD1	2.50	0.47
1:r:431:SER:HA	1:r:568:THR:HB	1.96	0.47
1:A:431:SER:HA	1:A:568:THR:HB	1.96	0.47
1:A:587:ALA:HA	1:G:497:ASN:HA	1.96	0.47
1:E:325:VAL:HG22	1:E:334:ILE:HG12	1.97	0.47
1:G:431:SER:HA	1:G:568:THR:HB	1.96	0.47
1:J:694:ARG:HH21	1:J:696:ASN:HD21	1.61	0.47
1:P:228:TRP:HB2	1:Q:404:MET:CE	2.45	0.47
1:R:355:VAL:H	1:R:646:GLN:HE22	1.60	0.47
1:R:400:PHE:CE1	1:U:693:LYS:HD3	2.50	0.47
1:R:694:ARG:HH21	1:R:696:ASN:HD21	1.61	0.47
1:U:694:ARG:HH21	1:U:696:ASN:HD21	1.61	0.47
1:V:694:ARG:HH21	1:V:696:ASN:HD21	1.61	0.47
1:1:483:SER:OG	1:1:577:TYR:HB2	2.15	0.47
1:3:325:VAL:HG22	1:3:334:ILE:HG12	1.97	0.47
1:4:693:LYS:HD3	1:f:400:PHE:CE1	2.50	0.47
1:5:309:ARG:O	1:5:686:GLU:N	2.42	0.47
1:6:309:ARG:O	1:6:686:GLU:N	2.42	0.47
1:6:379:TYR:OH	1:6:395:TYR:N	2.36	0.47
1:a:519:ASN:O	1:a:520:PRO:C	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:325:VAL:HG22	1:d:334:ILE:HG12	1.97	0.47
1:d:693:LYS:HD3	1:e:400:PHE:CE1	2.50	0.47
1:e:261:SER:HB3	1:e:275:PHE:CD1	2.50	0.47
1:e:325:VAL:HG22	1:e:334:ILE:HG12	1.97	0.47
1:i:483:SER:OG	1:i:577:TYR:HB2	2.15	0.47
1:n:497:ASN:HA	1:p:587:ALA:HA	1.95	0.47
1:o:355:VAL:H	1:o:646:GLN:HE22	1.60	0.47
1:o:483:SER:OG	1:o:577:TYR:HB2	2.15	0.47
1:s:350:TYR:OH	1:s:643:PRO:O	2.22	0.47
1:w:483:SER:OG	1:w:577:TYR:HB2	2.15	0.47
1:x:325:VAL:HG22	1:x:334:ILE:HG12	1.97	0.47
1:x:694:ARG:HH21	1:x:696:ASN:HD21	1.61	0.47
1:7:517:LEU:HD12	1:7:518:MET:N	2.29	0.47
1:A:563:GLU:OE2	1:A:613:TYR:OH	2.25	0.47
1:B:483:SER:OG	1:B:577:TYR:HB2	2.15	0.47
1:D:361:GLU:HG3	1:D:362:GLY:N	2.30	0.47
1:D:404:MET:CE	1:E:228:TRP:HB2	2.45	0.47
1:E:261:SER:HB3	1:E:275:PHE:CD1	2.50	0.47
1:F:325:VAL:HG22	1:F:334:ILE:HG12	1.97	0.47
1:G:587:ALA:HA	1:I:497:ASN:HA	1.96	0.47
1:H:483:SER:OG	1:H:577:TYR:HB2	2.15	0.47
1:J:361:GLU:HG3	1:J:362:GLY:N	2.30	0.47
1:L:483:SER:OG	1:L:577:TYR:HB2	2.15	0.47
1:O:563:GLU:OE2	1:O:613:TYR:OH	2.25	0.47
1:T:431:SER:HA	1:T:568:THR:HB	1.96	0.47
1:U:223:SER:OG	1:5:219:ASP:HB3	2.14	0.47
1:Z:261:SER:HB3	1:Z:275:PHE:CD1	2.50	0.47
1:1:325:VAL:HG22	1:1:334:ILE:HG12	1.97	0.47
1:1:517:LEU:HD12	1:1:518:MET:N	2.29	0.47
1:3:261:SER:HB3	1:3:275:PHE:CD1	2.50	0.47
1:3:694:ARG:HH21	1:3:696:ASN:HD21	1.61	0.47
1:5:563:GLU:OE2	1:5:613:TYR:OH	2.25	0.47
1:6:219:ASP:HB3	1:t:223:SER:OG	2.14	0.47
1:6:483:SER:OG	1:6:577:TYR:HB2	2.15	0.47
1:b:228:TRP:HB2	1:c:404:MET:CE	2.45	0.47
1:h:694:ARG:HH21	1:h:696:ASN:HD21	1.61	0.47
1:i:223:SER:OG	1:7:219:ASP:HB3	2.15	0.47
1:i:361:GLU:HG3	1:i:362:GLY:N	2.30	0.47
1:j:261:SER:HB3	1:j:275:PHE:CD1	2.50	0.47
1:l:325:VAL:HG22	1:l:334:ILE:HG12	1.96	0.47
1:l:483:SER:OG	1:l:577:TYR:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:694:ARG:HH21	1:n:696:ASN:HD21	1.61	0.47
1:o:219:ASP:HB3	1:y:223:SER:OG	2.14	0.47
1:o:694:ARG:HH21	1:o:696:ASN:HD21	1.61	0.47
1:q:431:SER:HA	1:q:568:THR:HB	1.96	0.47
1:t:261:SER:HB3	1:t:275:PHE:CD1	2.50	0.47
1:u:483:SER:OG	1:u:577:TYR:HB2	2.15	0.47
1:w:223:SER:OG	1:8:219:ASP:HB3	2.15	0.47
1:w:361:GLU:HG3	1:w:362:GLY:N	2.30	0.47
1:z:325:VAL:HG22	1:z:334:ILE:HG12	1.97	0.47
1:z:483:SER:OG	1:z:577:TYR:HB2	2.15	0.47
1:8:483:SER:OG	1:8:577:TYR:HB2	2.15	0.47
1:A:219:ASP:HB3	1:B:223:SER:OG	2.15	0.46
1:A:228:TRP:HB2	1:E:404:MET:CE	2.46	0.46
1:A:261:SER:HB3	1:A:275:PHE:CD1	2.50	0.46
1:C:483:SER:OG	1:C:577:TYR:HB2	2.15	0.46
1:D:261:SER:HB3	1:D:275:PHE:CD1	2.50	0.46
1:F:563:GLU:OE2	1:F:613:TYR:OH	2.25	0.46
1:I:261:SER:HB3	1:I:275:PHE:CD1	2.50	0.46
1:J:325:VAL:HG22	1:J:334:ILE:HG12	1.97	0.46
1:K:400:PHE:CE1	1:8:693:LYS:HD3	2.50	0.46
1:L:355:VAL:H	1:L:646:GLN:HE22	1.60	0.46
1:M:261:SER:HB3	1:M:275:PHE:CD1	2.50	0.46
1:N:223:SER:OG	1:g:219:ASP:HB3	2.15	0.46
1:N:694:ARG:HH21	1:N:696:ASN:HD21	1.61	0.46
1:S:325:VAL:HG22	1:S:334:ILE:HG12	1.96	0.46
1:S:431:SER:HA	1:S:568:THR:HB	1.96	0.46
1:T:325:VAL:HG22	1:T:334:ILE:HG12	1.96	0.46
1:V:693:LYS:HD3	1:5:400:PHE:CE1	2.50	0.46
1:W:483:SER:OG	1:W:577:TYR:HB2	2.15	0.46
1:W:693:LYS:HD3	1:Y:400:PHE:CE1	2.50	0.46
1:Z:361:GLU:HG3	1:Z:362:GLY:N	2.30	0.46
1:5:483:SER:OG	1:5:577:TYR:HB2	2.15	0.46
1:5:517:LEU:HD12	1:5:518:MET:N	2.29	0.46
1:a:261:SER:HB3	1:a:275:PHE:CD1	2.50	0.46
1:a:361:GLU:HG3	1:a:362:GLY:N	2.30	0.46
1:c:361:GLU:HG3	1:c:362:GLY:N	2.30	0.46
1:c:379:TYR:OH	1:c:395:TYR:N	2.35	0.46
1:e:404:MET:CE	1:q:228:TRP:HB2	2.46	0.46
1:f:694:ARG:HH21	1:f:696:ASN:HD21	1.61	0.46
1:j:361:GLU:HG3	1:j:362:GLY:N	2.30	0.46
1:k:497:ASN:HA	1:m:587:ALA:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:693:LYS:HD3	1:m:400:PHE:CE1	2.50	0.46
1:n:361:GLU:HG3	1:n:362:GLY:N	2.30	0.46
1:o:693:LYS:HD3	1:p:400:PHE:CE1	2.50	0.46
1:p:483:SER:OG	1:p:577:TYR:HB2	2.15	0.46
1:q:261:SER:HB3	1:q:275:PHE:CD1	2.50	0.46
1:q:693:LYS:HD3	1:r:400:PHE:CE1	2.50	0.46
1:s:261:SER:HB3	1:s:275:PHE:CD1	2.50	0.46
1:v:355:VAL:H	1:v:646:GLN:HE22	1.60	0.46
1:z:693:LYS:HD3	1:7:400:PHE:CE1	2.50	0.46
1:7:483:SER:OG	1:7:577:TYR:HB2	2.15	0.46
1:8:517:LEU:HD12	1:8:518:MET:N	2.29	0.46
1:B:400:PHE:CE1	1:L:693:LYS:HD3	2.50	0.46
1:D:219:ASP:HB3	1:E:223:SER:OG	2.14	0.46
1:E:483:SER:OG	1:E:577:TYR:HB2	2.15	0.46
1:F:223:SER:OG	1:G:219:ASP:HB3	2.15	0.46
1:F:404:MET:CE	1:R:228:TRP:HB2	2.46	0.46
1:F:483:SER:OG	1:F:577:TYR:HB2	2.15	0.46
1:G:517:LEU:HD12	1:G:518:MET:N	2.29	0.46
1:H:497:ASN:HA	1:Y:587:ALA:HA	1.96	0.46
1:J:483:SER:OG	1:J:577:TYR:HB2	2.15	0.46
1:K:223:SER:OG	1:L:219:ASP:HB3	2.14	0.46
1:K:693:LYS:HD3	1:1:400:PHE:CE1	2.50	0.46
1:M:483:SER:OG	1:M:577:TYR:HB2	2.15	0.46
1:N:361:GLU:HG3	1:N:362:GLY:N	2.30	0.46
1:N:483:SER:OG	1:N:577:TYR:HB2	2.15	0.46
1:O:400:PHE:CE1	1:h:693:LYS:HD3	2.50	0.46
1:O:483:SER:OG	1:O:577:TYR:HB2	2.15	0.46
1:Q:361:GLU:HG3	1:Q:362:GLY:N	2.30	0.46
1:T:379:TYR:OH	1:T:395:TYR:N	2.35	0.46
1:T:483:SER:OG	1:T:577:TYR:HB2	2.15	0.46
1:T:519:ASN:O	1:T:520:PRO:C	2.55	0.46
1:W:325:VAL:HG22	1:W:334:ILE:HG12	1.97	0.46
1:1:693:LYS:HD3	1:8:400:PHE:CE1	2.50	0.46
1:b:361:GLU:HG3	1:b:362:GLY:N	2.30	0.46
1:e:483:SER:OG	1:e:577:TYR:HB2	2.15	0.46
1:f:355:VAL:H	1:f:646:GLN:HE22	1.60	0.46
1:k:483:SER:OG	1:k:577:TYR:HB2	2.15	0.46
1:n:325:VAL:HG22	1:n:334:ILE:HG12	1.97	0.46
1:n:350:TYR:OH	1:n:643:PRO:O	2.22	0.46
1:r:587:ALA:HA	1:s:497:ASN:HA	1.96	0.46
1:x:261:SER:HB3	1:x:275:PHE:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:400:PHE:CE1	1:7:693:LYS:HD3	2.50	0.46
1:z:517:LEU:HD12	1:z:518:MET:N	2.29	0.46
1:8:694:ARG:HH21	1:8:696:ASN:HD21	1.61	0.46
1:C:517:LEU:HD12	1:C:518:MET:N	2.29	0.46
1:D:568:THR:O	1:N:511:LEU:HD21	2.14	0.46
1:G:483:SER:OG	1:G:577:TYR:HB2	2.15	0.46
1:N:379:TYR:OH	1:N:395:TYR:N	2.36	0.46
1:O:309:ARG:O	1:O:686:GLU:N	2.42	0.46
1:P:361:GLU:HG3	1:P:362:GLY:N	2.30	0.46
1:Q:309:ARG:O	1:Q:686:GLU:N	2.42	0.46
1:R:693:LYS:HD3	1:S:400:PHE:CE1	2.50	0.46
1:S:483:SER:OG	1:S:577:TYR:HB2	2.15	0.46
1:S:519:ASN:O	1:S:520:PRO:C	2.55	0.46
1:T:400:PHE:CE1	1:f:693:LYS:HD3	2.50	0.46
1:T:693:LYS:HD3	1:4:400:PHE:CE1	2.50	0.46
1:V:350:TYR:OH	1:V:643:PRO:O	2.22	0.46
1:X:483:SER:OG	1:X:577:TYR:HB2	2.15	0.46
1:Y:483:SER:OG	1:Y:577:TYR:HB2	2.15	0.46
1:6:694:ARG:HH21	1:6:696:ASN:HD21	1.61	0.46
1:a:404:MET:CE	1:e:228:TRP:HB2	2.46	0.46
1:d:223:SER:OG	1:r:219:ASP:HB3	2.15	0.46
1:d:404:MET:CE	1:f:228:TRP:HB2	2.46	0.46
1:d:483:SER:OG	1:d:577:TYR:HB2	2.15	0.46
1:g:483:SER:OG	1:g:577:TYR:HB2	2.15	0.46
1:m:325:VAL:HG22	1:m:334:ILE:HG12	1.97	0.46
1:m:483:SER:OG	1:m:577:TYR:HB2	2.15	0.46
1:n:400:PHE:CE1	1:p:693:LYS:HD3	2.50	0.46
1:n:483:SER:OG	1:n:577:TYR:HB2	2.15	0.46
1:t:483:SER:OG	1:t:577:TYR:HB2	2.15	0.46
1:u:694:ARG:HH21	1:u:696:ASN:HD21	1.61	0.46
1:v:261:SER:HB3	1:v:275:PHE:CD1	2.50	0.46
1:y:693:LYS:HD3	1:z:400:PHE:CE1	2.50	0.46
1:A:400:PHE:CE1	1:I:693:LYS:HD3	2.50	0.46
1:C:511:LEU:HD21	1:M:568:THR:O	2.16	0.46
1:C:694:ARG:HH21	1:C:696:ASN:HD21	1.61	0.46
1:E:511:LEU:HD21	1:F:568:THR:O	2.16	0.46
1:G:568:THR:O	1:I:511:LEU:HD21	2.16	0.46
1:H:693:LYS:HD3	1:W:400:PHE:CE1	2.50	0.46
1:M:228:TRP:HB2	1:N:404:MET:CE	2.45	0.46
1:O:325:VAL:HG22	1:O:334:ILE:HG12	1.97	0.46
1:Q:379:TYR:OH	1:Q:395:TYR:N	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:261:SER:HB3	1:S:275:PHE:CD1	2.50	0.46
1:S:693:LYS:HD3	1:U:400:PHE:CE1	2.50	0.46
1:T:219:ASP:HB3	1:c:223:SER:OG	2.15	0.46
1:T:261:SER:HB3	1:T:275:PHE:CD1	2.50	0.46
1:Y:325:VAL:HG22	1:Y:334:ILE:HG12	1.97	0.46
1:2:261:SER:HB3	1:2:275:PHE:CD1	2.50	0.46
1:5:325:VAL:HG22	1:5:334:ILE:HG12	1.97	0.46
1:a:219:ASP:HB3	1:e:223:SER:OG	2.14	0.46
1:d:568:THR:O	1:e:511:LEU:HD21	2.16	0.46
1:i:261:SER:HB3	1:i:275:PHE:CD1	2.50	0.46
1:s:361:GLU:HG3	1:s:362:GLY:N	2.30	0.46
1:t:568:THR:O	1:u:511:LEU:HD21	2.16	0.46
1:w:261:SER:HB3	1:w:275:PHE:CD1	2.50	0.46
1:7:694:ARG:HH21	1:7:696:ASN:HD21	1.61	0.46
1:8:325:VAL:HG22	1:8:334:ILE:HG12	1.96	0.46
1:B:693:LYS:HD3	1:J:400:PHE:CE1	2.50	0.46
1:D:529:GLU:HB2	1:N:512:ASN:OD1	2.15	0.46
1:F:511:LEU:HD21	1:Q:568:THR:O	2.16	0.46
1:I:361:GLU:HG3	1:I:362:GLY:N	2.30	0.46
1:J:350:TYR:OH	1:J:643:PRO:O	2.22	0.46
1:L:223:SER:OG	1:2:219:ASP:HB3	2.14	0.46
1:L:361:GLU:HG3	1:L:362:GLY:N	2.30	0.46
1:Q:228:TRP:HB2	1:S:404:MET:CE	2.46	0.46
1:S:587:ALA:HA	1:U:497:ASN:HA	1.96	0.46
1:T:404:MET:CE	1:c:228:TRP:HB2	2.46	0.46
1:V:400:PHE:CE1	1:X:693:LYS:HD3	2.50	0.46
1:X:325:VAL:HG22	1:X:334:ILE:HG12	1.97	0.46
1:X:404:MET:CE	1:6:228:TRP:HB2	2.46	0.46
1:Y:228:TRP:HB2	1:x:404:MET:CE	2.46	0.46
1:2:355:VAL:H	1:2:646:GLN:HE22	1.60	0.46
1:c:309:ARG:O	1:c:686:GLU:N	2.42	0.46
1:c:511:LEU:HD21	1:e:568:THR:O	2.16	0.46
1:c:568:THR:O	1:d:511:LEU:HD21	2.16	0.46
1:e:309:ARG:O	1:e:686:GLU:N	2.42	0.46
1:g:693:LYS:HD3	1:h:400:PHE:CE1	2.50	0.46
1:k:693:LYS:HD3	1:l:400:PHE:CE1	2.50	0.46
1:o:517:LEU:HD12	1:o:518:MET:N	2.29	0.46
1:q:400:PHE:CE1	1:s:693:LYS:HD3	2.50	0.46
1:q:563:GLU:OE2	1:q:613:TYR:OH	2.25	0.46
1:r:483:SER:OG	1:r:577:TYR:HB2	2.15	0.46
1:r:517:LEU:HD12	1:r:518:MET:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:517:LEU:HD12	1:u:518:MET:N	2.29	0.46
1:v:228:TRP:HB2	1:w:404:MET:CE	2.45	0.46
1:y:511:LEU:HD21	1:7:568:THR:O	2.16	0.46
1:7:325:VAL:HG22	1:7:334:ILE:HG12	1.96	0.46
1:8:261:SER:HB3	1:8:275:PHE:CD1	2.50	0.46
1:B:404:MET:CE	1:C:228:TRP:HB2	2.46	0.46
1:E:568:THR:O	1:Q:511:LEU:HD21	2.16	0.46
1:F:228:TRP:HB2	1:G:404:MET:CE	2.46	0.46
1:H:261:SER:HB3	1:H:275:PHE:CD1	2.50	0.46
1:J:693:LYS:HD3	1:L:400:PHE:CE1	2.50	0.46
1:K:511:LEU:HD21	1:8:568:THR:O	2.16	0.46
1:O:524:MET:HG3	1:O:573:ALA:HB2	1.98	0.46
1:Q:223:SER:OG	1:S:219:ASP:HB3	2.15	0.46
1:V:261:SER:HB3	1:V:275:PHE:CD1	2.50	0.46
1:V:568:THR:O	1:5:511:LEU:HD21	2.16	0.46
1:Y:223:SER:OG	1:x:219:ASP:HB3	2.14	0.46
1:2:228:TRP:HB2	1:i:404:MET:CE	2.46	0.46
1:3:219:ASP:HB3	1:m:223:SER:OG	2.14	0.46
1:3:404:MET:CE	1:m:228:TRP:HB2	2.46	0.46
1:4:261:SER:HB3	1:4:275:PHE:CD1	2.50	0.46
1:c:261:SER:HB3	1:c:275:PHE:CD1	2.50	0.46
1:d:228:TRP:HB2	1:r:404:MET:CE	2.46	0.46
1:d:261:SER:HB3	1:d:275:PHE:CD1	2.50	0.46
1:l:309:ARG:O	1:l:686:GLU:N	2.42	0.46
1:o:361:GLU:HG3	1:o:362:GLY:N	2.30	0.46
1:r:568:THR:O	1:s:511:LEU:HD21	2.16	0.46
1:v:517:LEU:HD12	1:v:518:MET:N	2.29	0.46
1:7:261:SER:HB3	1:7:275:PHE:CD1	2.50	0.46
1:C:524:MET:HG3	1:C:573:ALA:HB2	1.98	0.46
1:F:285:ASP:OD1	1:F:356:LEU:HG	2.16	0.46
1:H:223:SER:OG	1:I:219:ASP:HB3	2.14	0.46
1:J:261:SER:HB3	1:J:275:PHE:CD1	2.50	0.46
1:L:517:LEU:HD12	1:L:518:MET:N	2.29	0.46
1:O:228:TRP:HB2	1:P:404:MET:CE	2.46	0.46
1:O:361:GLU:HG3	1:O:362:GLY:N	2.30	0.46
1:O:511:LEU:HD21	1:h:568:THR:O	2.16	0.46
1:P:483:SER:OG	1:P:577:TYR:HB2	2.15	0.46
1:Q:261:SER:HB3	1:Q:275:PHE:CD1	2.50	0.46
1:S:379:TYR:OH	1:S:395:TYR:N	2.35	0.46
1:T:587:ALA:HA	1:4:497:ASN:HA	1.96	0.46
1:U:261:SER:HB3	1:U:275:PHE:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:404:MET:CE	1:W:228:TRP:HB2	2.46	0.46
1:X:511:LEU:HD21	1:5:568:THR:O	2.16	0.46
1:Z:404:MET:CE	1:1:228:TRP:HB2	2.46	0.46
1:2:517:LEU:HD12	1:2:518:MET:N	2.29	0.46
1:3:285:ASP:OD1	1:3:356:LEU:HG	2.16	0.46
1:3:568:THR:O	1:i:511:LEU:HD21	2.16	0.46
1:5:228:TRP:HB2	1:b:404:MET:CE	2.46	0.46
1:d:285:ASP:OD1	1:d:356:LEU:HG	2.16	0.46
1:e:517:LEU:HD12	1:e:518:MET:N	2.29	0.46
1:g:325:VAL:HG22	1:g:334:ILE:HG12	1.97	0.46
1:h:261:SER:HB3	1:h:275:PHE:CD1	2.50	0.46
1:i:312:ARG:NH2	1:i:684:GLU:OE1	2.49	0.46
1:k:223:SER:OG	1:s:219:ASP:HB3	2.14	0.46
1:k:261:SER:HB3	1:k:275:PHE:CD1	2.50	0.46
1:l:285:ASP:OD1	1:l:356:LEU:HG	2.16	0.46
1:m:524:MET:HG3	1:m:573:ALA:HB2	1.98	0.46
1:n:261:SER:HB3	1:n:275:PHE:CD1	2.50	0.46
1:o:223:SER:OG	1:v:219:ASP:HB3	2.14	0.46
1:q:325:VAL:HG22	1:q:334:ILE:HG12	1.97	0.46
1:u:524:MET:HG3	1:u:573:ALA:HB2	1.98	0.46
1:w:312:ARG:NH2	1:w:684:GLU:OE1	2.49	0.46
1:w:511:LEU:HD21	1:x:568:THR:O	2.16	0.46
1:x:285:ASP:OD1	1:x:356:LEU:HG	2.16	0.46
1:A:312:ARG:NH2	1:A:684:GLU:OE1	2.49	0.46
1:A:361:GLU:HG3	1:A:362:GLY:N	2.30	0.46
1:A:568:THR:O	1:G:511:LEU:HD21	2.16	0.46
1:B:325:VAL:HG22	1:B:334:ILE:HG12	1.96	0.46
1:C:568:THR:O	1:2:511:LEU:HD21	2.16	0.46
1:E:312:ARG:NH2	1:E:684:GLU:OE1	2.49	0.46
1:E:517:LEU:HD12	1:E:518:MET:N	2.29	0.46
1:F:261:SER:HB3	1:F:275:PHE:CD1	2.50	0.46
1:F:312:ARG:NH2	1:F:684:GLU:OE1	2.49	0.46
1:G:285:ASP:OD1	1:G:356:LEU:HG	2.16	0.46
1:H:404:MET:CE	1:Z:228:TRP:HB2	2.46	0.46
1:I:431:SER:HA	1:I:568:THR:HB	1.96	0.46
1:I:556:ASP:OD1	1:I:557:LYS:N	2.49	0.46
1:K:404:MET:CE	1:7:228:TRP:HB2	2.46	0.46
1:L:228:TRP:HB2	1:2:404:MET:CE	2.46	0.46
1:N:517:LEU:HD12	1:N:518:MET:N	2.29	0.46
1:O:568:THR:O	1:g:511:LEU:HD21	2.16	0.46
1:P:312:ARG:NH2	1:P:684:GLU:OE1	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:312:ARG:NH2	1:Q:684:GLU:OE1	2.49	0.46
1:Q:483:SER:OG	1:Q:577:TYR:HB2	2.15	0.46
1:R:483:SER:OG	1:R:577:TYR:HB2	2.15	0.46
1:S:312:ARG:NH2	1:S:684:GLU:OE1	2.49	0.46
1:T:312:ARG:NH2	1:T:684:GLU:OE1	2.49	0.46
1:T:694:ARG:HH21	1:T:696:ASN:HD21	1.61	0.46
1:U:285:ASP:OD1	1:U:356:LEU:HG	2.16	0.46
1:W:285:ASP:OD1	1:W:356:LEU:HG	2.16	0.46
1:Y:524:MET:HG3	1:Y:573:ALA:HB2	1.98	0.46
1:Z:556:ASP:OD1	1:Z:557:LYS:N	2.49	0.46
1:1:358:SER:HB2	1:1:360:HIS:CD2	2.51	0.46
1:2:483:SER:OG	1:2:577:TYR:HB2	2.15	0.46
1:4:285:ASP:OD1	1:4:356:LEU:HG	2.16	0.46
1:5:524:MET:HG3	1:5:573:ALA:HB2	1.98	0.46
1:a:556:ASP:OD1	1:a:557:LYS:N	2.49	0.46
1:b:483:SER:OG	1:b:577:TYR:HB2	2.15	0.46
1:c:312:ARG:NH2	1:c:684:GLU:OE1	2.49	0.46
1:c:693:LYS:HD3	1:d:400:PHE:CE1	2.50	0.46
1:e:312:ARG:NH2	1:e:684:GLU:OE1	2.49	0.46
1:g:524:MET:HG3	1:g:573:ALA:HB2	1.98	0.46
1:h:404:MET:CE	1:l:228:TRP:HB2	2.46	0.46
1:h:483:SER:OG	1:h:577:TYR:HB2	2.15	0.46
1:j:228:TRP:HB2	1:k:404:MET:CE	2.46	0.46
1:j:404:MET:CE	1:z:228:TRP:HB2	2.46	0.46
1:j:556:ASP:OD1	1:j:557:LYS:N	2.49	0.46
1:l:355:VAL:H	1:l:646:GLN:HE22	1.60	0.46
1:n:404:MET:CE	1:s:228:TRP:HB2	2.46	0.46
1:n:693:LYS:HD3	1:o:400:PHE:CE1	2.50	0.46
1:p:228:TRP:HB2	1:q:404:MET:CE	2.46	0.46
1:p:325:VAL:HG22	1:p:334:ILE:HG12	1.97	0.46
1:p:404:MET:CE	1:u:228:TRP:HB2	2.46	0.46
1:q:361:GLU:HG3	1:q:362:GLY:N	2.30	0.46
1:u:568:THR:O	1:v:511:LEU:HD21	2.16	0.46
1:v:483:SER:OG	1:v:577:TYR:HB2	2.15	0.46
1:y:312:ARG:NH2	1:y:684:GLU:OE1	2.49	0.46
1:y:556:ASP:OD1	1:y:557:LYS:N	2.49	0.46
1:z:285:ASP:OD1	1:z:356:LEU:HG	2.16	0.46
1:z:358:SER:HB2	1:z:360:HIS:CD2	2.51	0.46
1:A:325:VAL:HG22	1:A:334:ILE:HG12	1.97	0.46
1:A:404:MET:CE	1:B:228:TRP:HB2	2.46	0.46
1:C:285:ASP:OD1	1:C:356:LEU:HG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:404:MET:CE	1:D:228:TRP:HB2	2.46	0.46
1:D:358:SER:HB2	1:D:360:HIS:CD2	2.51	0.46
1:D:483:SER:OG	1:D:577:TYR:HB2	2.15	0.46
1:D:556:ASP:OD1	1:D:557:LYS:N	2.49	0.46
1:E:285:ASP:OD1	1:E:356:LEU:HG	2.16	0.46
1:E:309:ARG:O	1:E:686:GLU:N	2.42	0.46
1:E:358:SER:HB2	1:E:360:HIS:CD2	2.51	0.46
1:F:400:PHE:CE1	1:Q:693:LYS:HD3	2.50	0.46
1:G:358:SER:HB2	1:G:360:HIS:CD2	2.51	0.46
1:I:228:TRP:HB2	1:J:404:MET:CE	2.46	0.46
1:J:285:ASP:OD1	1:J:356:LEU:HG	2.16	0.46
1:K:312:ARG:NH2	1:K:684:GLU:OE1	2.49	0.46
1:K:556:ASP:OD1	1:K:557:LYS:N	2.49	0.46
1:L:358:SER:HB2	1:L:360:HIS:CD2	2.51	0.46
1:N:312:ARG:NH2	1:N:684:GLU:OE1	2.49	0.46
1:P:556:ASP:OD1	1:P:557:LYS:N	2.49	0.46
1:Q:524:MET:HG3	1:Q:573:ALA:HB2	1.98	0.46
1:S:228:TRP:HB2	1:4:404:MET:CE	2.46	0.46
1:S:694:ARG:HH21	1:S:696:ASN:HD21	1.61	0.46
1:T:228:TRP:HB2	1:U:404:MET:CE	2.46	0.46
1:T:285:ASP:OD1	1:T:356:LEU:HG	2.16	0.46
1:U:483:SER:OG	1:U:577:TYR:HB2	2.15	0.46
1:U:517:LEU:HD12	1:U:518:MET:N	2.29	0.46
1:V:483:SER:OG	1:V:577:TYR:HB2	2.15	0.46
1:Z:568:THR:O	1:x:511:LEU:HD21	2.16	0.46
1:1:285:ASP:OD1	1:1:356:LEU:HG	2.16	0.46
1:2:556:ASP:OD1	1:2:557:LYS:N	2.49	0.46
1:3:511:LEU:HD21	1:j:568:THR:O	2.16	0.46
1:5:312:ARG:NH2	1:5:684:GLU:OE1	2.49	0.46
1:5:361:GLU:HG3	1:5:362:GLY:N	2.30	0.46
1:6:312:ARG:NH2	1:6:684:GLU:OE1	2.49	0.46
1:6:517:LEU:HD12	1:6:518:MET:N	2.29	0.46
1:b:312:ARG:NH2	1:b:684:GLU:OE1	2.49	0.46
1:b:556:ASP:OD1	1:b:557:LYS:N	2.49	0.46
1:c:285:ASP:OD1	1:c:356:LEU:HG	2.16	0.46
1:c:556:ASP:OD1	1:c:557:LYS:N	2.49	0.46
1:d:312:ARG:NH2	1:d:684:GLU:OE1	2.49	0.46
1:e:358:SER:HB2	1:e:360:HIS:CD2	2.51	0.46
1:l:261:SER:HB3	1:l:275:PHE:CD1	2.50	0.46
1:m:285:ASP:OD1	1:m:356:LEU:HG	2.16	0.46
1:m:431:SER:HA	1:m:568:THR:HB	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:517:LEU:HD12	1:n:518:MET:N	2.29	0.46
1:o:228:TRP:HB2	1:v:404:MET:CE	2.46	0.46
1:o:358:SER:HB2	1:o:360:HIS:CD2	2.51	0.46
1:p:261:SER:HB3	1:p:275:PHE:CD1	2.50	0.46
1:q:312:ARG:NH2	1:q:684:GLU:OE1	2.49	0.46
1:s:285:ASP:OD1	1:s:356:LEU:HG	2.16	0.46
1:s:556:ASP:OD1	1:s:557:LYS:N	2.49	0.46
1:t:285:ASP:OD1	1:t:356:LEU:HG	2.16	0.46
1:t:312:ARG:NH2	1:t:684:GLU:OE1	2.49	0.46
1:u:556:ASP:OD1	1:u:557:LYS:N	2.49	0.46
1:v:556:ASP:OD1	1:v:557:LYS:N	2.49	0.46
1:w:228:TRP:HB2	1:8:404:MET:CE	2.46	0.46
1:x:483:SER:OG	1:x:577:TYR:HB2	2.15	0.46
1:y:404:MET:CE	1:8:228:TRP:HB2	2.46	0.46
1:z:312:ARG:NH2	1:z:684:GLU:OE1	2.49	0.46
1:A:483:SER:OG	1:A:577:TYR:HB2	2.15	0.46
1:C:556:ASP:OD1	1:C:557:LYS:N	2.49	0.46
1:E:524:MET:HG3	1:E:573:ALA:HB2	1.98	0.46
1:E:615:GLN:OE1	1:E:615:GLN:N	2.50	0.46
1:H:285:ASP:OD1	1:H:356:LEU:HG	2.16	0.46
1:I:285:ASP:OD1	1:I:356:LEU:HG	2.16	0.46
1:K:483:SER:OG	1:K:577:TYR:HB2	2.15	0.46
1:M:312:ARG:NH2	1:M:684:GLU:OE1	2.49	0.46
1:O:312:ARG:NH2	1:O:684:GLU:OE1	2.49	0.46
1:P:615:GLN:N	1:P:615:GLN:OE1	2.49	0.46
1:Q:285:ASP:OD1	1:Q:356:LEU:HG	2.16	0.46
1:Q:556:ASP:OD1	1:Q:557:LYS:N	2.49	0.46
1:S:285:ASP:OD1	1:S:356:LEU:HG	2.16	0.46
1:W:261:SER:HB3	1:W:275:PHE:CD1	2.50	0.46
1:W:355:VAL:H	1:W:646:GLN:HE22	1.60	0.46
1:W:358:SER:HB2	1:W:360:HIS:CD2	2.51	0.46
1:X:379:TYR:OH	1:X:395:TYR:N	2.35	0.46
1:X:524:MET:HG3	1:X:573:ALA:HB2	1.98	0.46
1:X:556:ASP:OD1	1:X:557:LYS:N	2.49	0.46
1:Y:285:ASP:OD1	1:Y:356:LEU:HG	2.16	0.46
1:Z:285:ASP:OD1	1:Z:356:LEU:HG	2.16	0.46
1:1:312:ARG:NH2	1:1:684:GLU:OE1	2.49	0.46
1:1:524:MET:HG3	1:1:573:ALA:HB2	1.98	0.46
1:3:483:SER:OG	1:3:577:TYR:HB2	2.15	0.46
1:4:483:SER:OG	1:4:577:TYR:HB2	2.15	0.46
1:6:556:ASP:OD1	1:6:557:LYS:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:693:LYS:HD3	1:b:400:PHE:CE1	2.50	0.46
1:a:228:TRP:HB2	1:u:404:MET:CE	2.46	0.46
1:a:358:SER:HB2	1:a:360:HIS:CD2	2.51	0.46
1:a:483:SER:OG	1:a:577:TYR:HB2	2.15	0.46
1:c:483:SER:OG	1:c:577:TYR:HB2	2.15	0.46
1:c:524:MET:HG3	1:c:573:ALA:HB2	1.98	0.46
1:d:556:ASP:OD1	1:d:557:LYS:N	2.49	0.46
1:e:524:MET:HG3	1:e:573:ALA:HB2	1.98	0.46
1:f:404:MET:CE	1:h:228:TRP:HB2	2.46	0.46
1:f:483:SER:OG	1:f:577:TYR:HB2	2.15	0.46
1:g:556:ASP:OD1	1:g:557:LYS:N	2.49	0.46
1:i:228:TRP:HB2	1:7:404:MET:CE	2.46	0.46
1:k:285:ASP:OD1	1:k:356:LEU:HG	2.16	0.46
1:l:358:SER:HB2	1:l:360:HIS:CD2	2.51	0.46
1:n:285:ASP:OD1	1:n:356:LEU:HG	2.16	0.46
1:n:358:SER:HB2	1:n:360:HIS:CD2	2.51	0.46
1:q:568:THR:O	1:r:511:LEU:HD21	2.16	0.46
1:r:285:ASP:OD1	1:r:356:LEU:HG	2.16	0.46
1:r:358:SER:HB2	1:r:360:HIS:CD2	2.51	0.46
1:s:431:SER:HA	1:s:568:THR:HB	1.96	0.46
1:t:404:MET:CE	1:x:228:TRP:HB2	2.46	0.46
1:u:285:ASP:OD1	1:u:356:LEU:HG	2.16	0.46
1:v:361:GLU:HG3	1:v:362:GLY:N	2.30	0.46
1:y:285:ASP:OD1	1:y:356:LEU:HG	2.16	0.46
1:z:524:MET:HG3	1:z:573:ALA:HB2	1.98	0.46
1:7:615:GLN:OE1	1:7:615:GLN:N	2.50	0.46
1:8:615:GLN:N	1:8:615:GLN:OE1	2.50	0.46
1:A:358:SER:HB2	1:A:360:HIS:CD2	2.51	0.45
1:A:511:LEU:HD21	1:I:568:THR:O	2.16	0.45
1:B:261:SER:HB3	1:B:275:PHE:CD1	2.50	0.45
1:B:556:ASP:OD1	1:B:557:LYS:N	2.49	0.45
1:E:355:VAL:H	1:E:646:GLN:HE22	1.60	0.45
1:F:556:ASP:OD1	1:F:557:LYS:N	2.49	0.45
1:G:556:ASP:OD1	1:G:557:LYS:N	2.49	0.45
1:H:312:ARG:NH2	1:H:684:GLU:OE1	2.49	0.45
1:H:358:SER:HB2	1:H:360:HIS:CD2	2.51	0.45
1:H:556:ASP:OD1	1:H:557:LYS:N	2.49	0.45
1:I:325:VAL:HG22	1:I:334:ILE:HG12	1.96	0.45
1:J:517:LEU:HD12	1:J:518:MET:N	2.29	0.45
1:K:285:ASP:OD1	1:K:356:LEU:HG	2.16	0.45
1:K:568:THR:O	1:1:511:LEU:HD21	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:285:ASP:OD1	1:M:356:LEU:HG	2.16	0.45
1:N:556:ASP:OD1	1:N:557:LYS:N	2.49	0.45
1:P:285:ASP:OD1	1:P:356:LEU:HG	2.16	0.45
1:R:404:MET:CE	1:V:228:TRP:HB2	2.46	0.45
1:S:568:THR:O	1:U:511:LEU:HD21	2.16	0.45
1:U:312:ARG:NH2	1:U:684:GLU:OE1	2.49	0.45
1:Y:312:ARG:NH2	1:Y:684:GLU:OE1	2.49	0.45
1:Y:431:SER:HA	1:Y:568:THR:HB	1.96	0.45
1:Y:556:ASP:OD1	1:Y:557:LYS:N	2.49	0.45
1:1:261:SER:HB3	1:1:275:PHE:CD1	2.50	0.45
1:2:361:GLU:HG3	1:2:362:GLY:N	2.30	0.45
1:3:556:ASP:OD1	1:3:557:LYS:N	2.49	0.45
1:4:312:ARG:NH2	1:4:684:GLU:OE1	2.49	0.45
1:4:517:LEU:HD12	1:4:518:MET:N	2.29	0.45
1:6:400:PHE:CE1	1:a:693:LYS:HD3	2.50	0.45
1:b:615:GLN:OE1	1:b:615:GLN:N	2.50	0.45
1:e:285:ASP:OD1	1:e:356:LEU:HG	2.16	0.45
1:e:615:GLN:OE1	1:e:615:GLN:N	2.50	0.45
1:i:524:MET:HG3	1:i:573:ALA:HB2	1.98	0.45
1:i:568:THR:O	1:j:511:LEU:HD21	2.16	0.45
1:i:615:GLN:OE1	1:i:615:GLN:N	2.50	0.45
1:j:285:ASP:OD1	1:j:356:LEU:HG	2.16	0.45
1:k:312:ARG:NH2	1:k:684:GLU:OE1	2.49	0.45
1:l:568:THR:O	1:m:511:LEU:HD21	2.16	0.45
1:m:556:ASP:OD1	1:m:557:LYS:N	2.49	0.45
1:q:358:SER:HB2	1:q:360:HIS:CD2	2.51	0.45
1:r:556:ASP:OD1	1:r:557:LYS:N	2.49	0.45
1:w:358:SER:HB2	1:w:360:HIS:CD2	2.51	0.45
1:w:615:GLN:OE1	1:w:615:GLN:N	2.50	0.45
1:y:361:GLU:HG3	1:y:362:GLY:N	2.30	0.45
1:z:261:SER:HB3	1:z:275:PHE:CD1	2.50	0.45
1:8:556:ASP:OD1	1:8:557:LYS:N	2.49	0.45
1:A:512:ASN:OD1	1:I:529:GLU:HB2	2.16	0.45
1:A:517:LEU:HD12	1:A:518:MET:N	2.29	0.45
1:E:556:ASP:OD1	1:E:557:LYS:N	2.49	0.45
1:F:358:SER:HB2	1:F:360:HIS:CD2	2.51	0.45
1:F:524:MET:HG3	1:F:573:ALA:HB2	1.98	0.45
1:I:312:ARG:NH2	1:I:684:GLU:OE1	2.49	0.45
1:I:358:SER:HB2	1:I:360:HIS:CD2	2.51	0.45
1:J:358:SER:HB2	1:J:360:HIS:CD2	2.51	0.45
1:M:404:MET:CE	1:3:228:TRP:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:524:MET:HG3	1:N:573:ALA:HB2	1.98	0.45
1:O:358:SER:HB2	1:O:360:HIS:CD2	2.51	0.45
1:Q:615:GLN:OE1	1:Q:615:GLN:N	2.50	0.45
1:R:360:HIS:HA	1:U:442:GLN:HA	1.99	0.45
1:R:524:MET:HG3	1:R:573:ALA:HB2	1.98	0.45
1:R:615:GLN:OE1	1:R:615:GLN:N	2.50	0.45
1:S:355:VAL:H	1:S:646:GLN:HE22	1.60	0.45
1:S:358:SER:HB2	1:S:360:HIS:CD2	2.51	0.45
1:T:524:MET:HG3	1:T:573:ALA:HB2	1.98	0.45
1:T:568:THR:O	1:4:511:LEU:HD21	2.16	0.45
1:U:556:ASP:OD1	1:U:557:LYS:N	2.49	0.45
1:W:568:THR:O	1:Y:511:LEU:HD21	2.16	0.45
1:X:228:TRP:HB2	1:Y:404:MET:CE	2.46	0.45
1:X:285:ASP:OD1	1:X:356:LEU:HG	2.16	0.45
1:Y:615:GLN:OE1	1:Y:615:GLN:N	2.50	0.45
1:Z:511:LEU:HD21	1:w:568:THR:O	2.16	0.45
1:4:355:VAL:H	1:4:646:GLN:HE22	1.60	0.45
1:4:358:SER:HB2	1:4:360:HIS:CD2	2.51	0.45
1:4:556:ASP:OD1	1:4:557:LYS:N	2.49	0.45
1:5:358:SER:HB2	1:5:360:HIS:CD2	2.51	0.45
1:b:285:ASP:OD1	1:b:356:LEU:HG	2.16	0.45
1:c:615:GLN:N	1:c:615:GLN:OE1	2.50	0.45
1:d:358:SER:HB2	1:d:360:HIS:CD2	2.51	0.45
1:e:355:VAL:H	1:e:646:GLN:HE22	1.60	0.45
1:f:524:MET:HG3	1:f:573:ALA:HB2	1.98	0.45
1:f:615:GLN:N	1:f:615:GLN:OE1	2.50	0.45
1:g:228:TRP:HB2	1:m:404:MET:CE	2.46	0.45
1:g:285:ASP:OD1	1:g:356:LEU:HG	2.16	0.45
1:g:568:THR:O	1:h:511:LEU:HD21	2.16	0.45
1:i:358:SER:HB2	1:i:360:HIS:CD2	2.51	0.45
1:k:358:SER:HB2	1:k:360:HIS:CD2	2.51	0.45
1:k:556:ASP:OD1	1:k:557:LYS:N	2.49	0.45
1:m:312:ARG:NH2	1:m:684:GLU:OE1	2.49	0.45
1:m:615:GLN:OE1	1:m:615:GLN:N	2.50	0.45
1:o:524:MET:HG3	1:o:573:ALA:HB2	1.98	0.45
1:p:556:ASP:OD1	1:p:557:LYS:N	2.49	0.45
1:q:483:SER:OG	1:q:577:TYR:HB2	2.15	0.45
1:q:511:LEU:HD21	1:s:568:THR:O	2.16	0.45
1:s:325:VAL:HG22	1:s:334:ILE:HG12	1.96	0.45
1:s:358:SER:HB2	1:s:360:HIS:CD2	2.51	0.45
1:s:517:LEU:HD12	1:s:518:MET:N	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:524:MET:HG3	1:w:573:ALA:HB2	1.98	0.45
1:x:556:ASP:OD1	1:x:557:LYS:N	2.49	0.45
1:y:483:SER:OG	1:y:577:TYR:HB2	2.15	0.45
1:y:568:THR:O	1:z:511:LEU:HD21	2.16	0.45
1:y:615:GLN:OE1	1:y:615:GLN:N	2.49	0.45
1:7:556:ASP:OD1	1:7:557:LYS:N	2.49	0.45
1:A:524:MET:HG3	1:A:573:ALA:HB2	1.98	0.45
1:A:529:GLU:HB2	1:G:512:ASN:OD1	2.17	0.45
1:D:511:LEU:HD21	1:P:568:THR:O	2.16	0.45
1:K:361:GLU:HG3	1:K:362:GLY:N	2.30	0.45
1:M:615:GLN:OE1	1:M:615:GLN:N	2.50	0.45
1:Q:358:SER:HB2	1:Q:360:HIS:CD2	2.51	0.45
1:R:312:ARG:NH2	1:R:684:GLU:OE1	2.49	0.45
1:R:556:ASP:OD1	1:R:557:LYS:N	2.49	0.45
1:T:358:SER:HB2	1:T:360:HIS:CD2	2.51	0.45
1:T:511:LEU:HD21	1:f:568:THR:O	2.16	0.45
1:U:358:SER:HB2	1:U:360:HIS:CD2	2.51	0.45
1:V:511:LEU:HD21	1:X:568:THR:O	2.16	0.45
1:X:261:SER:HB3	1:X:275:PHE:CD1	2.50	0.45
1:X:312:ARG:NH2	1:X:684:GLU:OE1	2.49	0.45
1:Y:358:SER:HB2	1:Y:360:HIS:CD2	2.51	0.45
1:Z:483:SER:OG	1:Z:577:TYR:HB2	2.15	0.45
1:2:312:ARG:NH2	1:2:684:GLU:OE1	2.49	0.45
1:4:442:GLN:HA	1:f:360:HIS:HA	1.99	0.45
1:4:524:MET:HB2	1:4:571:PRO:O	2.17	0.45
1:6:404:MET:CE	1:t:228:TRP:HB2	2.46	0.45
1:6:524:MET:HG3	1:6:573:ALA:HB2	1.98	0.45
1:a:511:LEU:HD21	1:b:568:THR:O	2.16	0.45
1:c:358:SER:HB2	1:c:360:HIS:CD2	2.51	0.45
1:d:524:MET:HG3	1:d:573:ALA:HB2	1.98	0.45
1:e:361:GLU:HG3	1:e:362:GLY:N	2.30	0.45
1:e:556:ASP:OD1	1:e:557:LYS:N	2.49	0.45
1:f:312:ARG:NH2	1:f:684:GLU:OE1	2.49	0.45
1:g:312:ARG:NH2	1:g:684:GLU:OE1	2.49	0.45
1:j:325:VAL:HG22	1:j:334:ILE:HG12	1.97	0.45
1:j:483:SER:OG	1:j:577:TYR:HB2	2.15	0.45
1:m:358:SER:HB2	1:m:360:HIS:CD2	2.51	0.45
1:q:285:ASP:OD1	1:q:356:LEU:HG	2.16	0.45
1:q:524:MET:HG3	1:q:573:ALA:HB2	1.98	0.45
1:r:615:GLN:OE1	1:r:615:GLN:N	2.50	0.45
1:u:529:GLU:HB2	1:v:512:ASN:OD1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:693:LYS:HD3	1:v:400:PHE:CE1	2.50	0.45
1:v:312:ARG:NH2	1:v:684:GLU:OE1	2.49	0.45
1:A:285:ASP:OD1	1:A:356:LEU:HG	2.16	0.45
1:A:556:ASP:OD1	1:A:557:LYS:N	2.49	0.45
1:C:529:GLU:HB2	1:2:512:ASN:OD1	2.17	0.45
1:D:312:ARG:NH2	1:D:684:GLU:OE1	2.49	0.45
1:E:361:GLU:HG3	1:E:362:GLY:N	2.30	0.45
1:F:615:GLN:OE1	1:F:615:GLN:N	2.50	0.45
1:G:361:GLU:HG3	1:G:362:GLY:N	2.30	0.45
1:G:615:GLN:OE1	1:G:615:GLN:N	2.49	0.45
1:I:517:LEU:HD12	1:I:518:MET:N	2.29	0.45
1:L:524:MET:HG3	1:L:573:ALA:HB2	1.98	0.45
1:N:358:SER:HB2	1:N:360:HIS:CD2	2.51	0.45
1:O:512:ASN:OD1	1:h:529:GLU:HB2	2.17	0.45
1:R:568:THR:O	1:S:511:LEU:HD21	2.16	0.45
1:S:524:MET:HG3	1:S:573:ALA:HB2	1.98	0.45
1:T:355:VAL:H	1:T:646:GLN:HE22	1.60	0.45
1:U:355:VAL:H	1:U:646:GLN:HE22	1.60	0.45
1:U:524:MET:HB2	1:U:571:PRO:O	2.17	0.45
1:V:285:ASP:OD1	1:V:356:LEU:HG	2.16	0.45
1:W:524:MET:HG3	1:W:573:ALA:HB2	1.98	0.45
1:Z:325:VAL:HG22	1:Z:334:ILE:HG12	1.97	0.45
1:1:529:GLU:HB2	1:8:512:ASN:OD1	2.17	0.45
1:4:361:GLU:HG3	1:4:362:GLY:N	2.30	0.45
1:5:285:ASP:OD1	1:5:356:LEU:HG	2.16	0.45
1:6:358:SER:HB2	1:6:360:HIS:CD2	2.51	0.45
1:6:529:GLU:HB2	1:b:512:ASN:OD1	2.17	0.45
1:a:312:ARG:NH2	1:a:684:GLU:OE1	2.49	0.45
1:d:615:GLN:OE1	1:d:615:GLN:N	2.50	0.45
1:f:556:ASP:OD1	1:f:557:LYS:N	2.49	0.45
1:g:261:SER:HB3	1:g:275:PHE:CD1	2.50	0.45
1:h:285:ASP:OD1	1:h:356:LEU:HG	2.16	0.45
1:h:312:ARG:NH2	1:h:684:GLU:OE1	2.49	0.45
1:k:511:LEU:HD21	1:m:568:THR:O	2.16	0.45
1:l:615:GLN:OE1	1:l:615:GLN:N	2.50	0.45
1:n:529:GLU:HB2	1:o:512:ASN:OD1	2.17	0.45
1:p:524:MET:HG3	1:p:573:ALA:HB2	1.98	0.45
1:q:517:LEU:HD12	1:q:518:MET:N	2.29	0.45
1:q:529:GLU:HB2	1:r:512:ASN:OD1	2.17	0.45
1:q:556:ASP:OD1	1:q:557:LYS:N	2.49	0.45
1:s:312:ARG:NH2	1:s:684:GLU:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:615:GLN:OE1	1:t:615:GLN:N	2.50	0.45
1:z:529:GLU:HB2	1:7:512:ASN:OD1	2.17	0.45
1:B:312:ARG:NH2	1:B:684:GLU:OE1	2.49	0.45
1:B:524:MET:HG3	1:B:573:ALA:HB2	1.98	0.45
1:C:693:LYS:HD3	1:2:400:PHE:CE1	2.50	0.45
1:E:529:GLU:HB2	1:Q:512:ASN:OD1	2.17	0.45
1:H:511:LEU:HD21	1:Y:568:THR:O	2.16	0.45
1:I:483:SER:OG	1:I:577:TYR:HB2	2.15	0.45
1:J:529:GLU:HB2	1:L:512:ASN:OD1	2.17	0.45
1:J:556:ASP:OD1	1:J:557:LYS:N	2.49	0.45
1:K:228:TRP:HB2	1:L:404:MET:CE	2.46	0.45
1:N:524:MET:HB2	1:N:571:PRO:O	2.17	0.45
1:O:285:ASP:OD1	1:O:356:LEU:HG	2.16	0.45
1:O:556:ASP:OD1	1:O:557:LYS:N	2.49	0.45
1:R:511:LEU:HD21	1:U:568:THR:O	2.16	0.45
1:S:556:ASP:OD1	1:S:557:LYS:N	2.49	0.45
1:V:312:ARG:NH2	1:V:684:GLU:OE1	2.49	0.45
1:V:529:GLU:HB2	1:5:512:ASN:OD1	2.17	0.45
1:W:615:GLN:OE1	1:W:615:GLN:N	2.50	0.45
1:X:358:SER:HB2	1:X:360:HIS:CD2	2.51	0.45
1:Z:312:ARG:NH2	1:Z:684:GLU:OE1	2.49	0.45
1:2:358:SER:HB2	1:2:360:HIS:CD2	2.51	0.45
1:5:556:ASP:OD1	1:5:557:LYS:N	2.49	0.45
1:6:285:ASP:OD1	1:6:356:LEU:HG	2.16	0.45
1:6:524:MET:HB2	1:6:571:PRO:O	2.17	0.45
1:c:512:ASN:OD1	1:e:529:GLU:HB2	2.17	0.45
1:d:451:ILE:HG22	1:d:453:GLY:N	2.32	0.45
1:g:358:SER:HB2	1:g:360:HIS:CD2	2.51	0.45
1:g:379:TYR:OH	1:g:395:TYR:N	2.35	0.45
1:n:556:ASP:OD1	1:n:557:LYS:N	2.49	0.45
1:o:404:MET:CE	1:y:228:TRP:HB2	2.46	0.45
1:r:361:GLU:HG3	1:r:362:GLY:N	2.30	0.45
1:C:312:ARG:NH2	1:C:684:GLU:OE1	2.49	0.45
1:C:325:VAL:HG22	1:C:334:ILE:HG12	1.96	0.45
1:E:512:ASN:OD1	1:F:529:GLU:HB2	2.17	0.45
1:F:451:ILE:HG22	1:F:453:GLY:N	2.32	0.45
1:G:312:ARG:NH2	1:G:684:GLU:OE1	2.49	0.45
1:G:529:GLU:HB2	1:I:512:ASN:OD1	2.17	0.45
1:M:358:SER:HB2	1:M:360:HIS:CD2	2.51	0.45
1:N:285:ASP:OD1	1:N:356:LEU:HG	2.16	0.45
1:R:358:SER:HB2	1:R:360:HIS:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:517:LEU:HD12	1:R:518:MET:N	2.29	0.45
1:T:556:ASP:OD1	1:T:557:LYS:N	2.49	0.45
1:U:228:TRP:HB2	1:5:404:MET:CE	2.46	0.45
1:U:277:TYR:CD2	1:U:394:PHE:HD1	2.35	0.45
1:U:361:GLU:HG3	1:U:362:GLY:N	2.30	0.45
1:U:615:GLN:OE1	1:U:615:GLN:N	2.49	0.45
1:V:524:MET:HB2	1:V:571:PRO:O	2.17	0.45
1:V:556:ASP:OD1	1:V:557:LYS:N	2.49	0.45
1:W:277:TYR:CD2	1:W:394:PHE:HD1	2.35	0.45
1:X:524:MET:HB2	1:X:571:PRO:O	2.17	0.45
1:4:277:TYR:CD2	1:4:394:PHE:HD1	2.35	0.45
1:4:568:THR:O	1:f:511:LEU:HD21	2.16	0.45
1:4:615:GLN:OE1	1:4:615:GLN:N	2.49	0.45
1:6:361:GLU:HG3	1:6:362:GLY:N	2.30	0.45
1:b:261:SER:HB3	1:b:275:PHE:CD1	2.50	0.45
1:d:529:GLU:HB2	1:e:512:ASN:OD1	2.17	0.45
1:h:524:MET:HB2	1:h:571:PRO:O	2.17	0.45
1:j:312:ARG:NH2	1:j:684:GLU:OE1	2.49	0.45
1:j:524:MET:HG3	1:j:573:ALA:HB2	1.98	0.45
1:k:568:THR:O	1:l:511:LEU:HD21	2.16	0.45
1:l:524:MET:HG3	1:l:573:ALA:HB2	1.98	0.45
1:l:529:GLU:HB2	1:m:512:ASN:OD1	2.17	0.45
1:o:442:GLN:HA	1:p:360:HIS:HA	1.99	0.45
1:r:312:ARG:NH2	1:r:684:GLU:OE1	2.49	0.45
1:s:483:SER:OG	1:s:577:TYR:HB2	2.15	0.45
1:t:358:SER:HB2	1:t:360:HIS:CD2	2.51	0.45
1:u:312:ARG:NH2	1:u:684:GLU:OE1	2.49	0.45
1:u:325:VAL:HG22	1:u:334:ILE:HG12	1.96	0.45
1:v:277:TYR:CD2	1:v:394:PHE:HD1	2.35	0.45
1:v:358:SER:HB2	1:v:360:HIS:CD2	2.51	0.45
1:y:524:MET:HG3	1:y:573:ALA:HB2	1.98	0.45
1:7:451:ILE:HG22	1:7:453:GLY:N	2.32	0.45
1:8:451:ILE:HG22	1:8:453:GLY:N	2.32	0.45
1:B:360:HIS:HA	1:L:442:GLN:HA	1.99	0.45
1:B:442:GLN:HA	1:J:360:HIS:HA	1.99	0.45
1:D:512:ASN:OD1	1:P:529:GLU:HB2	2.17	0.45
1:F:284:PHE:CE2	1:F:649:ILE:HD13	2.52	0.45
1:H:360:HIS:HA	1:Y:442:GLN:HA	1.99	0.45
1:H:568:THR:O	1:W:511:LEU:HD21	2.16	0.45
1:J:277:TYR:CD2	1:J:394:PHE:HD1	2.35	0.45
1:K:524:MET:HG3	1:K:573:ALA:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:524:MET:HB2	1:L:571:PRO:O	2.17	0.45
1:M:556:ASP:OD1	1:M:557:LYS:N	2.49	0.45
1:N:437:ASN:HB2	1:P:355:VAL:CG1	2.47	0.45
1:O:404:MET:CE	1:4:228:TRP:HB2	2.46	0.45
1:P:261:SER:HB3	1:P:275:PHE:CD1	2.50	0.45
1:Q:284:PHE:CE2	1:Q:649:ILE:HD13	2.52	0.45
1:Q:451:ILE:HG22	1:Q:453:GLY:N	2.32	0.45
1:R:529:GLU:HB2	1:S:512:ASN:OD1	2.17	0.45
1:S:529:GLU:HB2	1:U:512:ASN:OD1	2.17	0.45
1:T:529:GLU:HB2	1:4:512:ASN:OD1	2.17	0.45
1:U:379:TYR:OH	1:U:395:TYR:N	2.36	0.45
1:V:284:PHE:CE2	1:V:649:ILE:HD13	2.52	0.45
1:W:524:MET:HB2	1:W:571:PRO:O	2.17	0.45
1:W:529:GLU:HB2	1:Y:512:ASN:OD1	2.17	0.45
1:1:284:PHE:CE2	1:1:649:ILE:HD13	2.52	0.45
1:2:277:TYR:CD2	1:2:394:PHE:HD1	2.35	0.45
1:3:615:GLN:OE1	1:3:615:GLN:N	2.49	0.45
1:4:379:TYR:OH	1:4:395:TYR:N	2.36	0.45
1:4:529:GLU:HB2	1:f:512:ASN:OD1	2.17	0.45
1:5:615:GLN:OE1	1:5:615:GLN:N	2.50	0.45
1:6:568:THR:O	1:b:511:LEU:HD21	2.16	0.45
1:a:420:VAL:HB	1:a:421:PRO:HD2	1.99	0.45
1:a:512:ASN:OD1	1:b:529:GLU:HB2	2.17	0.45
1:c:284:PHE:CE2	1:c:649:ILE:HD13	2.52	0.45
1:d:284:PHE:CE2	1:d:649:ILE:HD13	2.52	0.45
1:f:358:SER:HB2	1:f:360:HIS:CD2	2.51	0.45
1:f:517:LEU:HD12	1:f:518:MET:N	2.29	0.45
1:g:524:MET:HB2	1:g:571:PRO:O	2.17	0.45
1:h:284:PHE:CE2	1:h:649:ILE:HD13	2.52	0.45
1:h:556:ASP:OD1	1:h:557:LYS:N	2.49	0.45
1:k:360:HIS:HA	1:m:442:GLN:HA	1.99	0.45
1:k:524:MET:HG3	1:k:573:ALA:HB2	1.98	0.45
1:l:277:TYR:CD2	1:l:394:PHE:HD1	2.35	0.45
1:l:524:MET:HB2	1:l:571:PRO:O	2.17	0.45
1:n:277:TYR:CD2	1:n:394:PHE:HD1	2.35	0.45
1:n:360:HIS:HA	1:p:442:GLN:HA	1.99	0.45
1:o:524:MET:HB2	1:o:571:PRO:O	2.17	0.45
1:p:277:TYR:CD2	1:p:394:PHE:HD1	2.35	0.45
1:p:312:ARG:NH2	1:p:684:GLU:OE1	2.49	0.45
1:r:277:TYR:CD2	1:r:394:PHE:HD1	2.35	0.45
1:r:529:GLU:HB2	1:s:512:ASN:OD1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:524:MET:HG3	1:s:573:ALA:HB2	1.98	0.45
1:t:556:ASP:OD1	1:t:557:LYS:N	2.49	0.45
1:y:512:ASN:OD1	1:7:529:GLU:HB2	2.17	0.45
1:z:284:PHE:CE2	1:z:649:ILE:HD13	2.52	0.45
1:7:277:TYR:CD2	1:7:394:PHE:HD1	2.35	0.45
1:7:312:ARG:NH2	1:7:684:GLU:OE1	2.49	0.45
1:8:277:TYR:CD2	1:8:394:PHE:HD1	2.35	0.45
1:A:284:PHE:CE2	1:A:649:ILE:HD13	2.52	0.45
1:A:615:GLN:OE1	1:A:615:GLN:N	2.50	0.45
1:B:277:TYR:CD2	1:B:394:PHE:HD1	2.35	0.45
1:B:512:ASN:OD1	1:L:529:GLU:HB2	2.17	0.45
1:B:529:GLU:HB2	1:J:512:ASN:OD1	2.17	0.45
1:C:284:PHE:CE2	1:C:649:ILE:HD13	2.52	0.45
1:D:420:VAL:HB	1:D:421:PRO:HD2	1.99	0.45
1:E:420:VAL:HB	1:E:421:PRO:HD2	1.99	0.45
1:E:524:MET:HB2	1:E:571:PRO:O	2.17	0.45
1:G:284:PHE:CE2	1:G:649:ILE:HD13	2.52	0.45
1:I:524:MET:HG3	1:I:573:ALA:HB2	1.98	0.45
1:I:615:GLN:OE1	1:I:615:GLN:N	2.49	0.45
1:K:277:TYR:CD2	1:K:394:PHE:HD1	2.35	0.45
1:K:442:GLN:HA	1:1:360:HIS:HA	1.99	0.45
1:K:512:ASN:OD1	1:8:529:GLU:HB2	2.17	0.45
1:L:284:PHE:CE2	1:L:649:ILE:HD13	2.52	0.45
1:M:360:HIS:HA	1:2:442:GLN:HA	1.99	0.45
1:N:442:GLN:HA	1:P:360:HIS:HA	1.98	0.45
1:O:615:GLN:OE1	1:O:615:GLN:N	2.50	0.45
1:P:277:TYR:CD2	1:P:394:PHE:HD1	2.35	0.45
1:R:451:ILE:HG22	1:R:453:GLY:N	2.32	0.45
1:R:512:ASN:OD1	1:U:529:GLU:HB2	2.17	0.45
1:S:284:PHE:CE2	1:S:649:ILE:HD13	2.52	0.45
1:T:284:PHE:CE2	1:T:649:ILE:HD13	2.52	0.45
1:T:512:ASN:OD1	1:f:529:GLU:HB2	2.17	0.45
1:Z:524:MET:HG3	1:Z:573:ALA:HB2	1.98	0.45
1:1:524:MET:HB2	1:1:571:PRO:O	2.17	0.45
1:1:563:GLU:OE2	1:1:613:TYR:OH	2.24	0.45
1:3:284:PHE:CE2	1:3:649:ILE:HD13	2.52	0.45
1:3:312:ARG:NH2	1:3:684:GLU:OE1	2.49	0.45
1:3:451:ILE:HG22	1:3:453:GLY:N	2.32	0.45
1:6:511:LEU:HD21	1:a:568:THR:O	2.16	0.45
1:a:277:TYR:CD2	1:a:394:PHE:HD1	2.35	0.45
1:a:524:MET:HB2	1:a:571:PRO:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:277:TYR:CD2	1:b:394:PHE:HD1	2.35	0.45
1:c:451:ILE:HG22	1:c:453:GLY:N	2.32	0.45
1:c:524:MET:HB2	1:c:571:PRO:O	2.17	0.45
1:e:420:VAL:HB	1:e:421:PRO:HD2	1.99	0.45
1:e:524:MET:HB2	1:e:571:PRO:O	2.17	0.45
1:f:451:ILE:HG22	1:f:453:GLY:N	2.32	0.45
1:h:358:SER:HB2	1:h:360:HIS:CD2	2.51	0.45
1:i:285:ASP:OD1	1:i:356:LEU:HG	2.16	0.45
1:i:556:ASP:OD1	1:i:557:LYS:N	2.49	0.45
1:k:228:TRP:HB2	1:s:404:MET:CE	2.46	0.45
1:n:355:VAL:H	1:n:646:GLN:HE22	1.60	0.45
1:o:284:PHE:CE2	1:o:649:ILE:HD13	2.52	0.45
1:p:285:ASP:OD1	1:p:356:LEU:HG	2.16	0.45
1:p:358:SER:HB2	1:p:360:HIS:CD2	2.51	0.45
1:q:284:PHE:CE2	1:q:649:ILE:HD13	2.52	0.45
1:q:512:ASN:OD1	1:s:529:GLU:HB2	2.17	0.45
1:r:284:PHE:CE2	1:r:649:ILE:HD13	2.52	0.45
1:s:524:MET:HB2	1:s:571:PRO:O	2.17	0.45
1:u:284:PHE:CE2	1:u:649:ILE:HD13	2.52	0.45
1:u:615:GLN:OE1	1:u:615:GLN:N	2.49	0.45
1:v:451:ILE:HG22	1:v:453:GLY:N	2.32	0.45
1:w:309:ARG:O	1:w:686:GLU:N	2.42	0.45
1:x:284:PHE:CE2	1:x:649:ILE:HD13	2.52	0.45
1:x:420:VAL:HB	1:x:421:PRO:HD2	1.99	0.45
1:x:451:ILE:HG22	1:x:453:GLY:N	2.32	0.45
1:z:556:ASP:OD1	1:z:557:LYS:N	2.49	0.45
1:7:284:PHE:CE2	1:7:649:ILE:HD13	2.52	0.45
1:7:285:ASP:OD1	1:7:356:LEU:HG	2.16	0.45
1:7:524:MET:HB2	1:7:571:PRO:O	2.17	0.45
1:7:524:MET:HG3	1:7:573:ALA:HB2	1.98	0.45
1:8:285:ASP:OD1	1:8:356:LEU:HG	2.16	0.45
1:8:312:ARG:NH2	1:8:684:GLU:OE1	2.49	0.45
1:A:277:TYR:CD2	1:A:394:PHE:HD1	2.35	0.45
1:B:358:SER:HB2	1:B:360:HIS:CD2	2.51	0.45
1:B:451:ILE:HG22	1:B:453:GLY:N	2.32	0.45
1:B:568:THR:O	1:J:511:LEU:HD21	2.16	0.45
1:C:360:HIS:HA	1:M:442:GLN:HA	1.99	0.45
1:D:277:TYR:CD2	1:D:394:PHE:HD1	2.35	0.45
1:D:451:ILE:HG22	1:D:453:GLY:N	2.32	0.45
1:D:524:MET:HB2	1:D:571:PRO:O	2.17	0.45
1:E:284:PHE:CE2	1:E:649:ILE:HD13	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:277:TYR:CD2	1:F:394:PHE:HD1	2.35	0.45
1:F:379:TYR:OH	1:F:395:TYR:N	2.36	0.45
1:G:228:TRP:HB2	1:W:404:MET:CE	2.46	0.45
1:G:277:TYR:CD2	1:G:394:PHE:HD1	2.35	0.45
1:H:524:MET:HG3	1:H:573:ALA:HB2	1.98	0.45
1:I:524:MET:HB2	1:I:571:PRO:O	2.17	0.45
1:J:312:ARG:NH2	1:J:684:GLU:OE1	2.49	0.45
1:J:568:THR:O	1:L:511:LEU:HD21	2.16	0.45
1:J:615:GLN:OE1	1:J:615:GLN:N	2.50	0.45
1:K:529:GLU:HB2	1:1:512:ASN:OD1	2.17	0.45
1:L:556:ASP:OD1	1:L:557:LYS:N	2.49	0.45
1:M:361:GLU:HG3	1:M:362:GLY:N	2.30	0.45
1:M:517:LEU:HD12	1:M:518:MET:N	2.29	0.45
1:O:277:TYR:CD2	1:O:394:PHE:HD1	2.35	0.45
1:P:420:VAL:HB	1:P:421:PRO:HD2	1.99	0.45
1:Q:524:MET:HB2	1:Q:571:PRO:O	2.17	0.45
1:S:420:VAL:HB	1:S:421:PRO:HD2	1.99	0.45
1:V:358:SER:HB2	1:V:360:HIS:CD2	2.51	0.45
1:W:556:ASP:OD1	1:W:557:LYS:N	2.49	0.45
1:Y:284:PHE:CE2	1:Y:649:ILE:HD13	2.52	0.45
1:2:420:VAL:HB	1:2:421:PRO:HD2	1.99	0.45
1:3:420:VAL:HB	1:3:421:PRO:HD2	1.99	0.45
1:3:442:GLN:HA	1:i:360:HIS:HA	1.99	0.45
1:5:277:TYR:CD2	1:5:394:PHE:HD1	2.35	0.45
1:a:451:ILE:HG22	1:a:453:GLY:N	2.32	0.45
1:b:420:VAL:HB	1:b:421:PRO:HD2	1.99	0.45
1:e:284:PHE:CE2	1:e:649:ILE:HD13	2.52	0.45
1:j:358:SER:HB2	1:j:360:HIS:CD2	2.51	0.45
1:m:284:PHE:CE2	1:m:649:ILE:HD13	2.52	0.45
1:n:512:ASN:OD1	1:p:529:GLU:HB2	2.17	0.45
1:o:556:ASP:OD1	1:o:557:LYS:N	2.49	0.45
1:q:277:TYR:CD2	1:q:394:PHE:HD1	2.35	0.45
1:s:615:GLN:N	1:s:615:GLN:OE1	2.50	0.45
1:t:442:GLN:HA	1:u:360:HIS:HA	1.99	0.45
1:t:524:MET:HG3	1:t:573:ALA:HB2	1.98	0.45
1:v:524:MET:HG3	1:v:573:ALA:HB2	1.98	0.45
1:w:360:HIS:HA	1:x:442:GLN:HA	1.99	0.45
1:w:556:ASP:OD1	1:w:557:LYS:N	2.49	0.45
1:x:312:ARG:NH2	1:x:684:GLU:OE1	2.49	0.45
1:x:524:MET:HB2	1:x:571:PRO:O	2.17	0.45
1:x:615:GLN:OE1	1:x:615:GLN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:277:TYR:CD2	1:y:394:PHE:HD1	2.35	0.45
1:y:358:SER:HB2	1:y:360:HIS:CD2	2.51	0.45
1:y:442:GLN:HA	1:z:360:HIS:HA	1.99	0.45
1:y:529:GLU:HB2	1:z:512:ASN:OD1	2.17	0.45
1:z:524:MET:HB2	1:z:571:PRO:O	2.17	0.45
1:8:284:PHE:CE2	1:8:649:ILE:HD13	2.52	0.45
1:8:524:MET:HB2	1:8:571:PRO:O	2.17	0.45
1:B:285:ASP:OD1	1:B:356:LEU:HG	2.16	0.45
1:B:511:LEU:HD21	1:L:568:THR:O	2.16	0.45
1:B:563:GLU:OE2	1:B:613:TYR:OH	2.24	0.45
1:C:615:GLN:N	1:C:615:GLN:OE1	2.50	0.45
1:G:524:MET:HG3	1:G:573:ALA:HB2	1.98	0.45
1:H:442:GLN:HA	1:W:360:HIS:HA	1.99	0.45
1:J:228:TRP:HB2	1:1:404:MET:CE	2.46	0.45
1:K:358:SER:HB2	1:K:360:HIS:CD2	2.51	0.45
1:M:284:PHE:CE2	1:M:649:ILE:HD13	2.52	0.45
1:M:511:LEU:HD21	1:2:568:THR:O	2.16	0.45
1:O:360:HIS:HA	1:h:442:GLN:HA	1.99	0.45
1:O:420:VAL:HB	1:O:421:PRO:HD2	1.99	0.45
1:P:358:SER:HB2	1:P:360:HIS:CD2	2.51	0.45
1:R:277:TYR:CD2	1:R:394:PHE:HD1	2.35	0.45
1:R:285:ASP:OD1	1:R:356:LEU:HG	2.16	0.45
1:R:427:ALA:O	1:R:733:THR:HA	2.17	0.45
1:S:427:ALA:O	1:S:733:THR:HA	2.17	0.45
1:T:420:VAL:HB	1:T:421:PRO:HD2	1.99	0.45
1:T:427:ALA:O	1:T:733:THR:HA	2.17	0.45
1:T:615:GLN:OE1	1:T:615:GLN:N	2.50	0.45
1:V:360:HIS:HA	1:X:442:GLN:HA	1.99	0.45
1:V:442:GLN:HA	1:5:360:HIS:HA	1.99	0.45
1:Z:358:SER:HB2	1:Z:360:HIS:CD2	2.51	0.45
1:Z:524:MET:HB2	1:Z:571:PRO:O	2.17	0.45
1:1:556:ASP:OD1	1:1:557:LYS:N	2.49	0.45
1:2:451:ILE:HG22	1:2:453:GLY:N	2.32	0.45
1:2:524:MET:HG3	1:2:573:ALA:HB2	1.98	0.45
1:3:524:MET:HB2	1:3:571:PRO:O	2.17	0.45
1:5:420:VAL:HB	1:5:421:PRO:HD2	1.99	0.45
1:5:451:ILE:HG22	1:5:453:GLY:N	2.32	0.45
1:f:277:TYR:CD2	1:f:394:PHE:HD1	2.35	0.45
1:f:427:ALA:O	1:f:733:THR:HA	2.17	0.45
1:g:451:ILE:HG22	1:g:453:GLY:N	2.32	0.45
1:k:427:ALA:O	1:k:733:THR:HA	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:404:MET:CE	1:r:228:TRP:HB2	2.46	0.45
1:l:556:ASP:OD1	1:l:557:LYS:N	2.49	0.45
1:n:228:TRP:HB2	1:z:404:MET:CE	2.46	0.45
1:n:511:LEU:HD21	1:p:568:THR:O	2.16	0.45
1:n:568:THR:O	1:o:511:LEU:HD21	2.16	0.45
1:n:615:GLN:N	1:n:615:GLN:OE1	2.50	0.45
1:o:312:ARG:NH2	1:o:684:GLU:OE1	2.49	0.45
1:o:529:GLU:HB2	1:p:512:ASN:OD1	2.17	0.45
1:p:451:ILE:HG22	1:p:453:GLY:N	2.32	0.45
1:p:524:MET:HB2	1:p:571:PRO:O	2.17	0.45
1:q:615:GLN:OE1	1:q:615:GLN:N	2.50	0.45
1:r:524:MET:HB2	1:r:571:PRO:O	2.17	0.45
1:t:284:PHE:CE2	1:t:649:ILE:HD13	2.52	0.45
1:t:360:HIS:HA	1:v:442:GLN:HA	1.99	0.45
1:v:420:VAL:HB	1:v:421:PRO:HD2	1.99	0.45
1:w:285:ASP:OD1	1:w:356:LEU:HG	2.16	0.45
1:z:563:GLU:OE2	1:z:613:TYR:OH	2.24	0.45
1:7:427:ALA:O	1:7:733:THR:HA	2.17	0.45
1:8:358:SER:HB2	1:8:360:HIS:CD2	2.51	0.45
1:8:427:ALA:O	1:8:733:THR:HA	2.17	0.45
1:8:524:MET:HG3	1:8:573:ALA:HB2	1.98	0.45
1:B:524:MET:HB2	1:B:571:PRO:O	2.17	0.44
1:G:524:MET:HB2	1:G:571:PRO:O	2.17	0.44
1:H:228:TRP:HB2	1:I:404:MET:CE	2.46	0.44
1:H:427:ALA:O	1:H:733:THR:HA	2.17	0.44
1:I:277:TYR:CD2	1:I:394:PHE:HD1	2.35	0.44
1:I:309:ARG:O	1:I:686:GLU:N	2.42	0.44
1:I:451:ILE:HG22	1:I:453:GLY:N	2.32	0.44
1:K:420:VAL:HB	1:K:421:PRO:HD2	1.99	0.44
1:K:451:ILE:HG22	1:K:453:GLY:N	2.32	0.44
1:M:524:MET:HB2	1:M:571:PRO:O	2.17	0.44
1:M:524:MET:HG3	1:M:573:ALA:HB2	1.98	0.44
1:N:693:LYS:HD3	1:P:400:PHE:CE1	2.52	0.44
1:O:451:ILE:HG22	1:O:453:GLY:N	2.32	0.44
1:S:277:TYR:CD2	1:S:394:PHE:HD1	2.35	0.44
1:S:615:GLN:N	1:S:615:GLN:OE1	2.50	0.44
1:V:512:ASN:OD1	1:X:529:GLU:HB2	2.17	0.44
1:V:615:GLN:OE1	1:V:615:GLN:N	2.50	0.44
1:W:284:PHE:CE2	1:W:649:ILE:HD13	2.52	0.44
1:W:312:ARG:NH2	1:W:684:GLU:OE1	2.49	0.44
1:W:451:ILE:HG22	1:W:453:GLY:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:451:ILE:HG22	1:X:453:GLY:N	2.32	0.44
1:1:361:GLU:HG3	1:1:362:GLY:N	2.30	0.44
1:4:524:MET:HG3	1:4:573:ALA:HB2	1.98	0.44
1:d:277:TYR:CD2	1:d:394:PHE:HD1	2.35	0.44
1:d:379:TYR:OH	1:d:395:TYR:N	2.36	0.44
1:g:442:GLN:HA	1:h:360:HIS:HA	1.99	0.44
1:g:529:GLU:HB2	1:h:512:ASN:OD1	2.17	0.44
1:j:524:MET:HB2	1:j:571:PRO:O	2.17	0.44
1:k:442:GLN:HA	1:l:360:HIS:HA	1.99	0.44
1:k:524:MET:HB2	1:k:571:PRO:O	2.17	0.44
1:l:442:GLN:HA	1:m:360:HIS:HA	1.98	0.44
1:m:361:GLU:HG3	1:m:362:GLY:N	2.30	0.44
1:n:312:ARG:NH2	1:n:684:GLU:OE1	2.49	0.44
1:r:524:MET:HG3	1:r:573:ALA:HB2	1.98	0.44
1:s:379:TYR:OH	1:s:395:TYR:N	2.36	0.44
1:t:361:GLU:HG3	1:t:362:GLY:N	2.30	0.44
1:t:427:ALA:O	1:t:733:THR:HA	2.17	0.44
1:t:511:LEU:HD21	1:v:568:THR:O	2.16	0.44
1:t:524:MET:HB2	1:t:571:PRO:O	2.17	0.44
1:u:358:SER:HB2	1:u:360:HIS:CD2	2.51	0.44
1:v:285:ASP:OD1	1:v:356:LEU:HG	2.16	0.44
1:y:420:VAL:HB	1:y:421:PRO:HD2	1.99	0.44
1:z:427:ALA:O	1:z:733:THR:HA	2.17	0.44
1:z:568:THR:O	1:7:511:LEU:HD21	2.16	0.44
1:7:358:SER:HB2	1:7:360:HIS:CD2	2.51	0.44
1:A:360:HIS:HA	1:I:442:GLN:HA	1.98	0.44
1:C:358:SER:HB2	1:C:360:HIS:CD2	2.51	0.44
1:C:420:VAL:HB	1:C:421:PRO:HD2	1.99	0.44
1:C:524:MET:HB2	1:C:571:PRO:O	2.17	0.44
1:D:285:ASP:OD1	1:D:356:LEU:HG	2.16	0.44
1:E:451:ILE:HG22	1:E:453:GLY:N	2.32	0.44
1:F:298:TRP:CG	1:F:614:LEU:HD12	2.53	0.44
1:F:427:ALA:O	1:F:733:THR:HA	2.18	0.44
1:H:524:MET:HB2	1:H:571:PRO:O	2.17	0.44
1:L:312:ARG:NH2	1:L:684:GLU:OE1	2.49	0.44
1:M:427:ALA:O	1:M:733:THR:HA	2.17	0.44
1:N:459:GLN:NE2	1:P:496:ASN:O	2.50	0.44
1:Q:277:TYR:CD2	1:Q:394:PHE:HD1	2.35	0.44
1:R:298:TRP:CG	1:R:614:LEU:HD12	2.53	0.44
1:R:442:GLN:HA	1:S:360:HIS:HA	1.99	0.44
1:R:524:MET:HB2	1:R:571:PRO:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:277:TYR:CD2	1:T:394:PHE:HD1	2.35	0.44
1:T:360:HIS:HA	1:f:442:GLN:HA	1.99	0.44
1:U:284:PHE:CE2	1:U:649:ILE:HD13	2.52	0.44
1:V:298:TRP:CG	1:V:614:LEU:HD12	2.53	0.44
1:W:361:GLU:HG3	1:W:362:GLY:N	2.30	0.44
1:X:284:PHE:CE2	1:X:649:ILE:HD13	2.52	0.44
1:X:298:TRP:CG	1:X:614:LEU:HD12	2.53	0.44
1:Y:451:ILE:HG22	1:Y:453:GLY:N	2.32	0.44
1:1:379:TYR:OH	1:1:395:TYR:N	2.36	0.44
1:1:427:ALA:O	1:1:733:THR:HA	2.18	0.44
1:2:285:ASP:OD1	1:2:356:LEU:HG	2.16	0.44
1:2:317:LEU:HD13	1:2:679:VAL:HG12	2.00	0.44
1:3:277:TYR:CD2	1:3:394:PHE:HD1	2.35	0.44
1:3:358:SER:HB2	1:3:360:HIS:CD2	2.51	0.44
1:4:309:ARG:O	1:4:686:GLU:N	2.42	0.44
1:b:358:SER:HB2	1:b:360:HIS:CD2	2.51	0.44
1:d:298:TRP:CG	1:d:614:LEU:HD12	2.53	0.44
1:e:451:ILE:HG22	1:e:453:GLY:N	2.32	0.44
1:f:285:ASP:OD1	1:f:356:LEU:HG	2.16	0.44
1:f:298:TRP:CG	1:f:614:LEU:HD12	2.53	0.44
1:f:317:LEU:HD13	1:f:679:VAL:HG12	2.00	0.44
1:g:284:PHE:CE2	1:g:649:ILE:HD13	2.52	0.44
1:h:298:TRP:CG	1:h:614:LEU:HD12	2.53	0.44
1:h:615:GLN:OE1	1:h:615:GLN:N	2.50	0.44
1:i:277:TYR:CD2	1:i:394:PHE:HD1	2.35	0.44
1:i:309:ARG:O	1:i:686:GLU:N	2.42	0.44
1:i:451:ILE:HG22	1:i:453:GLY:N	2.32	0.44
1:i:524:MET:HB2	1:i:571:PRO:O	2.17	0.44
1:l:284:PHE:CE2	1:l:649:ILE:HD13	2.52	0.44
1:l:312:ARG:NH2	1:l:684:GLU:OE1	2.49	0.44
1:l:451:ILE:HG22	1:l:453:GLY:N	2.32	0.44
1:o:451:ILE:HG22	1:o:453:GLY:N	2.32	0.44
1:o:568:THR:O	1:p:511:LEU:HD21	2.16	0.44
1:q:420:VAL:HB	1:q:421:PRO:HD2	1.99	0.44
1:q:524:MET:HB2	1:q:571:PRO:O	2.17	0.44
1:s:277:TYR:CD2	1:s:394:PHE:HD1	2.35	0.44
1:s:309:ARG:O	1:s:686:GLU:N	2.42	0.44
1:s:451:ILE:HG22	1:s:453:GLY:N	2.32	0.44
1:t:420:VAL:HB	1:t:421:PRO:HD2	1.99	0.44
1:t:517:LEU:HD12	1:t:518:MET:N	2.29	0.44
1:w:420:VAL:HB	1:w:421:PRO:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:277:TYR:CD2	1:x:394:PHE:HD1	2.35	0.44
1:y:451:ILE:HG22	1:y:453:GLY:N	2.32	0.44
1:z:379:TYR:OH	1:z:395:TYR:N	2.36	0.44
1:A:420:VAL:HB	1:A:421:PRO:HD2	1.99	0.44
1:A:524:MET:HB2	1:A:571:PRO:O	2.17	0.44
1:D:298:TRP:CG	1:D:614:LEU:HD12	2.53	0.44
1:E:277:TYR:CD2	1:E:394:PHE:HD1	2.35	0.44
1:F:512:ASN:OD1	1:Q:529:GLU:HB2	2.17	0.44
1:F:524:MET:HB2	1:F:571:PRO:O	2.17	0.44
1:H:298:TRP:CG	1:H:614:LEU:HD12	2.53	0.44
1:I:284:PHE:CE2	1:I:649:ILE:HD13	2.52	0.44
1:J:298:TRP:CG	1:J:614:LEU:HD12	2.53	0.44
1:K:284:PHE:CE2	1:K:649:ILE:HD13	2.52	0.44
1:K:298:TRP:CG	1:K:614:LEU:HD12	2.53	0.44
1:K:360:HIS:HA	1:8:442:GLN:HA	1.99	0.44
1:L:451:ILE:HG22	1:L:453:GLY:N	2.32	0.44
1:M:277:TYR:CD2	1:M:394:PHE:HD1	2.35	0.44
1:M:420:VAL:HB	1:M:421:PRO:HD2	1.99	0.44
1:N:277:TYR:CD2	1:N:394:PHE:HD1	2.35	0.44
1:N:298:TRP:CG	1:N:614:LEU:HD12	2.53	0.44
1:N:568:THR:O	1:P:511:LEU:HD21	2.17	0.44
1:O:315:PHE:CE2	1:O:647:ILE:HD13	2.53	0.44
1:P:309:ARG:O	1:P:686:GLU:N	2.42	0.44
1:P:524:MET:HB2	1:P:571:PRO:O	2.17	0.44
1:P:545:LYS:O	1:P:548:THR:OG1	2.34	0.44
1:Q:405:LEU:HB2	1:Q:409:ASN:HB2	2.00	0.44
1:R:317:LEU:HD13	1:R:679:VAL:HG12	2.00	0.44
1:S:261:SER:HB3	1:S:275:PHE:HD1	1.83	0.44
1:T:261:SER:HB3	1:T:275:PHE:HD1	1.83	0.44
1:U:228:TRP:HB3	1:5:402:SER:O	2.18	0.44
1:U:309:ARG:O	1:U:686:GLU:N	2.42	0.44
1:U:524:MET:HG3	1:U:573:ALA:HB2	1.98	0.44
1:V:402:SER:O	1:W:228:TRP:HB3	2.18	0.44
1:V:524:MET:HG3	1:V:573:ALA:HB2	1.98	0.44
1:W:442:GLN:HA	1:Y:360:HIS:HA	1.98	0.44
1:Y:524:MET:HB2	1:Y:571:PRO:O	2.17	0.44
1:Z:427:ALA:O	1:Z:733:THR:HA	2.18	0.44
1:1:568:THR:O	1:8:511:LEU:HD21	2.16	0.44
1:2:284:PHE:CE2	1:2:649:ILE:HD13	2.52	0.44
1:2:427:ALA:O	1:2:733:THR:HA	2.17	0.44
1:3:298:TRP:CG	1:3:614:LEU:HD12	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:284:PHE:CE2	1:4:649:ILE:HD13	2.52	0.44
1:4:420:VAL:HB	1:4:421:PRO:HD2	1.99	0.44
1:6:277:TYR:CD2	1:6:394:PHE:HD1	2.35	0.44
1:6:298:TRP:CG	1:6:614:LEU:HD12	2.53	0.44
1:6:442:GLN:HA	1:b:360:HIS:HA	1.99	0.44
1:a:285:ASP:OD1	1:a:356:LEU:HG	2.16	0.44
1:a:298:TRP:CG	1:a:614:LEU:HD12	2.53	0.44
1:b:309:ARG:O	1:b:686:GLU:N	2.42	0.44
1:c:277:TYR:CD2	1:c:394:PHE:HD1	2.35	0.44
1:c:405:LEU:HB2	1:c:409:ASN:HB2	2.00	0.44
1:c:427:ALA:O	1:c:733:THR:HA	2.17	0.44
1:c:529:GLU:HB2	1:d:512:ASN:OD1	2.17	0.44
1:d:427:ALA:O	1:d:733:THR:HA	2.18	0.44
1:d:524:MET:HB2	1:d:571:PRO:O	2.17	0.44
1:f:524:MET:HB2	1:f:571:PRO:O	2.17	0.44
1:g:298:TRP:CG	1:g:614:LEU:HD12	2.53	0.44
1:h:451:ILE:HG22	1:h:453:GLY:N	2.32	0.44
1:i:420:VAL:HB	1:i:421:PRO:HD2	1.99	0.44
1:i:517:LEU:HD12	1:i:518:MET:N	2.29	0.44
1:k:298:TRP:CG	1:k:614:LEU:HD12	2.53	0.44
1:l:361:GLU:HG3	1:l:362:GLY:N	2.30	0.44
1:m:451:ILE:HG22	1:m:453:GLY:N	2.32	0.44
1:m:524:MET:HB2	1:m:571:PRO:O	2.17	0.44
1:n:284:PHE:CE2	1:n:649:ILE:HD13	2.52	0.44
1:o:285:ASP:OD1	1:o:356:LEU:HG	2.16	0.44
1:p:402:SER:O	1:u:228:TRP:HB3	2.18	0.44
1:q:360:HIS:HA	1:s:442:GLN:HA	1.98	0.44
1:r:451:ILE:HG22	1:r:453:GLY:N	2.32	0.44
1:t:277:TYR:CD2	1:t:394:PHE:HD1	2.35	0.44
1:u:524:MET:HB2	1:u:571:PRO:O	2.17	0.44
1:v:317:LEU:HD13	1:v:679:VAL:HG12	2.00	0.44
1:w:277:TYR:CD2	1:w:394:PHE:HD1	2.35	0.44
1:w:517:LEU:HD12	1:w:518:MET:N	2.29	0.44
1:x:298:TRP:CG	1:x:614:LEU:HD12	2.53	0.44
1:x:358:SER:HB2	1:x:360:HIS:CD2	2.51	0.44
1:y:360:HIS:HA	1:7:442:GLN:HA	1.99	0.44
1:z:361:GLU:HG3	1:z:362:GLY:N	2.30	0.44
1:B:402:SER:O	1:C:228:TRP:HB3	2.18	0.44
1:C:317:LEU:HD13	1:C:679:VAL:HG12	2.00	0.44
1:C:427:ALA:O	1:C:733:THR:HA	2.17	0.44
1:E:427:ALA:O	1:E:733:THR:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:451:ILE:HG22	1:G:453:GLY:N	2.32	0.44
1:H:405:LEU:HB2	1:H:409:ASN:HB2	2.00	0.44
1:I:379:TYR:OH	1:I:395:TYR:N	2.36	0.44
1:I:427:ALA:O	1:I:733:THR:HA	2.17	0.44
1:J:284:PHE:CE2	1:J:649:ILE:HD13	2.52	0.44
1:L:285:ASP:OD1	1:L:356:LEU:HG	2.16	0.44
1:O:228:TRP:HB3	1:P:402:SER:O	2.18	0.44
1:O:402:SER:O	1:4:228:TRP:HB3	2.18	0.44
1:P:261:SER:HB3	1:P:275:PHE:HD1	1.83	0.44
1:P:315:PHE:CE2	1:P:647:ILE:HD13	2.53	0.44
1:Q:427:ALA:O	1:Q:733:THR:HA	2.17	0.44
1:R:402:SER:O	1:V:228:TRP:HB3	2.18	0.44
1:S:298:TRP:CG	1:S:614:LEU:HD12	2.53	0.44
1:U:420:VAL:HB	1:U:421:PRO:HD2	1.99	0.44
1:U:451:ILE:HG22	1:U:453:GLY:N	2.32	0.44
1:V:451:ILE:HG22	1:V:453:GLY:N	2.32	0.44
1:W:427:ALA:O	1:W:733:THR:HA	2.18	0.44
1:X:361:GLU:HG3	1:X:362:GLY:N	2.30	0.44
1:Y:361:GLU:HG3	1:Y:362:GLY:N	2.30	0.44
1:Z:261:SER:HB3	1:Z:275:PHE:HD1	1.83	0.44
1:Z:512:ASN:OD1	1:w:529:GLU:HB2	2.17	0.44
1:1:451:ILE:HG22	1:1:453:GLY:N	2.32	0.44
1:5:315:PHE:CE2	1:5:647:ILE:HD13	2.53	0.44
1:6:512:ASN:OD1	1:a:529:GLU:HB2	2.17	0.44
1:b:261:SER:HB3	1:b:275:PHE:HD1	1.83	0.44
1:e:277:TYR:CD2	1:e:394:PHE:HD1	2.35	0.44
1:f:402:SER:O	1:h:228:TRP:HB3	2.18	0.44
1:h:402:SER:O	1:l:228:TRP:HB3	2.18	0.44
1:h:420:VAL:HB	1:h:421:PRO:HD2	1.99	0.44
1:h:524:MET:HG3	1:h:573:ALA:HB2	1.98	0.44
1:i:427:ALA:O	1:i:733:THR:HA	2.17	0.44
1:j:261:SER:HB3	1:j:275:PHE:HD1	1.83	0.44
1:j:427:ALA:O	1:j:733:THR:HA	2.18	0.44
1:k:405:LEU:HB2	1:k:409:ASN:HB2	2.00	0.44
1:l:298:TRP:CG	1:l:614:LEU:HD12	2.53	0.44
1:n:298:TRP:CG	1:n:614:LEU:HD12	2.53	0.44
1:n:524:MET:HG3	1:n:573:ALA:HB2	1.98	0.44
1:p:563:GLU:OE2	1:p:613:TYR:OH	2.25	0.44
1:s:261:SER:HB3	1:s:275:PHE:HD1	1.83	0.44
1:s:284:PHE:CE2	1:s:649:ILE:HD13	2.52	0.44
1:u:317:LEU:HD13	1:u:679:VAL:HG12	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:420:VAL:HB	1:u:421:PRO:HD2	1.99	0.44
1:u:427:ALA:O	1:u:733:THR:HA	2.17	0.44
1:v:284:PHE:CE2	1:v:649:ILE:HD13	2.52	0.44
1:v:427:ALA:O	1:v:733:THR:HA	2.17	0.44
1:w:427:ALA:O	1:w:733:THR:HA	2.17	0.44
1:w:451:ILE:HG22	1:w:453:GLY:N	2.32	0.44
1:w:524:MET:HB2	1:w:571:PRO:O	2.17	0.44
1:y:284:PHE:CE2	1:y:649:ILE:HD13	2.52	0.44
1:y:298:TRP:CG	1:y:614:LEU:HD12	2.53	0.44
1:y:524:MET:HB2	1:y:571:PRO:O	2.17	0.44
1:z:442:GLN:HA	1:7:360:HIS:HA	1.99	0.44
1:z:451:ILE:HG22	1:z:453:GLY:N	2.32	0.44
1:z:615:GLN:OE1	1:z:615:GLN:N	2.50	0.44
1:7:317:LEU:HD13	1:7:679:VAL:HG12	2.00	0.44
1:8:317:LEU:HD13	1:8:679:VAL:HG12	2.00	0.44
1:8:420:VAL:HB	1:8:421:PRO:HD2	1.99	0.44
1:B:284:PHE:CE2	1:B:649:ILE:HD13	2.52	0.44
1:B:315:PHE:CE2	1:B:647:ILE:HD13	2.53	0.44
1:C:361:GLU:HG3	1:C:362:GLY:N	2.30	0.44
1:C:451:ILE:HG22	1:C:453:GLY:N	2.32	0.44
1:G:298:TRP:CG	1:G:614:LEU:HD12	2.53	0.44
1:I:261:SER:HB3	1:I:275:PHE:HD1	1.83	0.44
1:J:427:ALA:O	1:J:733:THR:HA	2.17	0.44
1:J:524:MET:HG3	1:J:573:ALA:HB2	1.98	0.44
1:K:317:LEU:HD13	1:K:679:VAL:HG12	2.00	0.44
1:K:524:MET:HB2	1:K:571:PRO:O	2.17	0.44
1:M:315:PHE:CE2	1:M:647:ILE:HD13	2.53	0.44
1:N:317:LEU:HD13	1:N:679:VAL:HG12	2.00	0.44
1:O:529:GLU:HB2	1:g:512:ASN:OD1	2.17	0.44
1:P:284:PHE:CE2	1:P:649:ILE:HD13	2.52	0.44
1:T:298:TRP:CG	1:T:614:LEU:HD12	2.53	0.44
1:U:405:LEU:HB2	1:U:409:ASN:HB2	2.00	0.44
1:V:379:TYR:HH	1:V:395:TYR:H	1.63	0.44
1:W:317:LEU:HD13	1:W:679:VAL:HG12	2.00	0.44
1:X:261:SER:HB3	1:X:275:PHE:HD1	1.83	0.44
1:X:360:HIS:HA	1:5:442:GLN:HA	1.99	0.44
1:Z:315:PHE:CE2	1:Z:647:ILE:HD13	2.53	0.44
1:Z:317:LEU:HD13	1:Z:679:VAL:HG12	2.00	0.44
1:Z:405:LEU:HB2	1:Z:409:ASN:HB2	2.00	0.44
1:1:442:GLN:HA	1:8:360:HIS:HA	1.99	0.44
1:1:615:GLN:OE1	1:1:615:GLN:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:405:LEU:HB2	1:4:409:ASN:HB2	2.00	0.44
1:5:228:TRP:HB3	1:b:402:SER:O	2.18	0.44
1:b:315:PHE:CE2	1:b:647:ILE:HD13	2.53	0.44
1:b:545:LYS:O	1:b:548:THR:OG1	2.34	0.44
1:c:261:SER:HB3	1:c:275:PHE:HD1	1.83	0.44
1:c:360:HIS:HA	1:e:442:GLN:HA	1.99	0.44
1:c:442:GLN:HA	1:d:360:HIS:HA	1.99	0.44
1:e:427:ALA:O	1:e:733:THR:HA	2.18	0.44
1:g:228:TRP:HB3	1:m:402:SER:O	2.18	0.44
1:g:361:GLU:HG3	1:g:362:GLY:N	2.30	0.44
1:i:298:TRP:CG	1:i:614:LEU:HD12	2.53	0.44
1:j:317:LEU:HD13	1:j:679:VAL:HG12	2.00	0.44
1:j:405:LEU:HB2	1:j:409:ASN:HB2	2.00	0.44
1:l:427:ALA:O	1:l:733:THR:HA	2.18	0.44
1:n:427:ALA:O	1:n:733:THR:HA	2.17	0.44
1:p:315:PHE:CE2	1:p:647:ILE:HD13	2.53	0.44
1:p:317:LEU:HD13	1:p:679:VAL:HG12	2.00	0.44
1:q:427:ALA:O	1:q:733:THR:HA	2.18	0.44
1:q:451:ILE:HG22	1:q:453:GLY:N	2.32	0.44
1:s:427:ALA:O	1:s:733:THR:HA	2.18	0.44
1:t:315:PHE:CE2	1:t:647:ILE:HD13	2.53	0.44
1:t:545:LYS:O	1:t:548:THR:OG1	2.34	0.44
1:u:451:ILE:HG22	1:u:453:GLY:N	2.32	0.44
1:w:298:TRP:CG	1:w:614:LEU:HD12	2.53	0.44
1:y:317:LEU:HD13	1:y:679:VAL:HG12	2.00	0.44
1:7:420:VAL:HB	1:7:421:PRO:HD2	1.99	0.44
1:A:427:ALA:O	1:A:733:THR:HA	2.17	0.44
1:B:317:LEU:HD13	1:B:679:VAL:HG12	2.00	0.44
1:B:615:GLN:OE1	1:B:615:GLN:N	2.50	0.44
1:C:512:ASN:OD1	1:M:529:GLU:HB2	2.17	0.44
1:D:474:GLN:C	1:N:519:ASN:HD22	2.26	0.44
1:D:524:MET:HG3	1:D:573:ALA:HB2	1.98	0.44
1:E:442:GLN:HA	1:Q:360:HIS:HA	1.99	0.44
1:F:317:LEU:HD13	1:F:679:VAL:HG12	2.00	0.44
1:F:360:HIS:HA	1:Q:442:GLN:HA	1.99	0.44
1:F:405:LEU:HB2	1:F:409:ASN:HB2	2.00	0.44
1:H:261:SER:HB3	1:H:275:PHE:HD1	1.83	0.44
1:H:277:TYR:CD2	1:H:394:PHE:HD1	2.35	0.44
1:H:284:PHE:CE2	1:H:649:ILE:HD13	2.52	0.44
1:J:261:SER:HB3	1:J:275:PHE:HD1	1.83	0.44
1:L:298:TRP:CG	1:L:614:LEU:HD12	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:284:PHE:CE2	1:O:649:ILE:HD13	2.52	0.44
1:Q:261:SER:HB3	1:Q:275:PHE:HD1	1.83	0.44
1:Q:317:LEU:HD13	1:Q:679:VAL:HG12	2.00	0.44
1:T:442:GLN:HA	1:4:360:HIS:HA	1.99	0.44
1:V:317:LEU:HD13	1:V:679:VAL:HG12	2.00	0.44
1:V:420:VAL:HB	1:V:421:PRO:HD2	1.99	0.44
1:W:298:TRP:CG	1:W:614:LEU:HD12	2.53	0.44
1:X:228:TRP:HB3	1:Y:402:SER:O	2.18	0.44
1:X:512:ASN:OD1	1:5:529:GLU:HB2	2.17	0.44
1:X:545:LYS:O	1:X:548:THR:OG1	2.34	0.44
1:Z:247:TRP:O	1:Z:676:THR:HG23	2.18	0.44
1:Z:277:TYR:CD2	1:Z:394:PHE:HD1	2.35	0.44
1:3:512:ASN:OD1	1:j:529:GLU:HB2	2.17	0.44
1:3:524:MET:HG3	1:3:573:ALA:HB2	1.98	0.44
1:4:451:ILE:HG22	1:4:453:GLY:N	2.32	0.44
1:6:402:SER:O	1:t:228:TRP:HB3	2.18	0.44
1:b:524:MET:HB2	1:b:571:PRO:O	2.17	0.44
1:b:524:MET:HG3	1:b:573:ALA:HB2	1.98	0.44
1:c:315:PHE:CE2	1:c:647:ILE:HD13	2.53	0.44
1:c:317:LEU:HD13	1:c:679:VAL:HG12	2.00	0.44
1:d:317:LEU:HD13	1:d:679:VAL:HG12	2.00	0.44
1:d:405:LEU:HB2	1:d:409:ASN:HB2	2.00	0.44
1:g:261:SER:HB3	1:g:275:PHE:HD1	1.83	0.44
1:h:317:LEU:HD13	1:h:679:VAL:HG12	2.00	0.44
1:h:405:LEU:HB2	1:h:409:ASN:HB2	2.00	0.44
1:i:529:GLU:HB2	1:j:512:ASN:OD1	2.17	0.44
1:j:247:TRP:O	1:j:676:THR:HG23	2.18	0.44
1:j:315:PHE:CE2	1:j:647:ILE:HD13	2.53	0.44
1:k:284:PHE:CE2	1:k:649:ILE:HD13	2.52	0.44
1:k:309:ARG:O	1:k:686:GLU:N	2.42	0.44
1:l:317:LEU:HD13	1:l:679:VAL:HG12	2.00	0.44
1:l:420:VAL:HB	1:l:421:PRO:HD2	1.99	0.44
1:n:405:LEU:HB2	1:n:409:ASN:HB2	2.00	0.44
1:o:298:TRP:CG	1:o:614:LEU:HD12	2.53	0.44
1:p:284:PHE:CE2	1:p:649:ILE:HD13	2.52	0.44
1:r:298:TRP:CG	1:r:614:LEU:HD12	2.53	0.44
1:r:317:LEU:HD13	1:r:679:VAL:HG12	2.00	0.44
1:u:261:SER:HB3	1:u:275:PHE:HD1	1.83	0.44
1:v:261:SER:HB3	1:v:275:PHE:HD1	1.83	0.44
1:A:451:ILE:HG22	1:A:453:GLY:N	2.32	0.44
1:B:247:TRP:O	1:B:676:THR:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:427:ALA:O	1:B:733:THR:HA	2.17	0.44
1:C:261:SER:HB3	1:C:275:PHE:HD1	1.83	0.44
1:D:284:PHE:CE2	1:D:649:ILE:HD13	2.52	0.44
1:D:360:HIS:HA	1:P:442:GLN:HA	1.99	0.44
1:F:247:TRP:O	1:F:676:THR:HG23	2.18	0.44
1:G:228:TRP:HB3	1:W:402:SER:O	2.18	0.44
1:G:247:TRP:O	1:G:676:THR:HG23	2.18	0.44
1:H:309:ARG:O	1:H:686:GLU:N	2.42	0.44
1:H:315:PHE:CE2	1:H:647:ILE:HD13	2.53	0.44
1:H:512:ASN:OD1	1:Y:529:GLU:HB2	2.17	0.44
1:M:261:SER:HB3	1:M:275:PHE:HD1	1.83	0.44
1:O:261:SER:HB3	1:O:275:PHE:HD1	1.83	0.44
1:O:442:GLN:HA	1:g:360:HIS:HA	1.99	0.44
1:Q:315:PHE:CE2	1:Q:647:ILE:HD13	2.53	0.44
1:R:284:PHE:CE2	1:R:649:ILE:HD13	2.52	0.44
1:S:442:GLN:HA	1:U:360:HIS:HA	1.99	0.44
1:S:524:MET:HB2	1:S:571:PRO:O	2.17	0.44
1:T:451:ILE:HG22	1:T:453:GLY:N	2.32	0.44
1:V:405:LEU:HB2	1:V:409:ASN:HB2	2.00	0.44
1:V:427:ALA:O	1:V:733:THR:HA	2.17	0.44
1:Y:247:TRP:O	1:Y:676:THR:HG23	2.18	0.44
1:Y:298:TRP:CG	1:Y:614:LEU:HD12	2.53	0.44
1:Y:427:ALA:O	1:Y:733:THR:HA	2.18	0.44
1:1:298:TRP:CG	1:1:614:LEU:HD12	2.53	0.44
1:2:261:SER:HB3	1:2:275:PHE:HD1	1.83	0.44
1:2:298:TRP:CG	1:2:614:LEU:HD12	2.53	0.44
1:5:284:PHE:CE2	1:5:649:ILE:HD13	2.52	0.44
1:5:524:MET:HB2	1:5:571:PRO:O	2.17	0.44
1:6:317:LEU:HD13	1:6:679:VAL:HG12	2.00	0.44
1:a:284:PHE:CE2	1:a:649:ILE:HD13	2.52	0.44
1:e:315:PHE:CE2	1:e:647:ILE:HD13	2.53	0.44
1:e:563:GLU:OE2	1:e:613:TYR:OH	2.25	0.44
1:f:284:PHE:CE2	1:f:649:ILE:HD13	2.52	0.44
1:g:277:TYR:CD2	1:g:394:PHE:HD1	2.35	0.44
1:j:277:TYR:CD2	1:j:394:PHE:HD1	2.35	0.44
1:j:284:PHE:CE2	1:j:649:ILE:HD13	2.52	0.44
1:k:512:ASN:OD1	1:m:529:GLU:HB2	2.17	0.44
1:m:247:TRP:O	1:m:676:THR:HG23	2.18	0.44
1:n:261:SER:HB3	1:n:275:PHE:HD1	1.83	0.44
1:n:524:MET:HB2	1:n:571:PRO:O	2.17	0.44
1:o:615:GLN:OE1	1:o:615:GLN:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:427:ALA:O	1:p:733:THR:HA	2.17	0.44
1:p:615:GLN:OE1	1:p:615:GLN:N	2.50	0.44
1:r:247:TRP:O	1:r:676:THR:HG23	2.18	0.44
1:t:512:ASN:OD1	1:v:529:GLU:HB2	2.17	0.44
1:v:298:TRP:CG	1:v:614:LEU:HD12	2.53	0.44
1:w:512:ASN:OD1	1:x:529:GLU:HB2	2.17	0.44
1:x:261:SER:HB3	1:x:275:PHE:HD1	1.83	0.44
1:x:524:MET:HG3	1:x:573:ALA:HB2	1.98	0.44
1:z:298:TRP:CG	1:z:614:LEU:HD12	2.53	0.44
1:A:342:VAL:HA	1:A:651:ASN:HA	2.00	0.44
1:B:261:SER:HB3	1:B:275:PHE:HD1	1.83	0.44
1:C:298:TRP:CG	1:C:614:LEU:HD12	2.53	0.44
1:E:315:PHE:CE2	1:E:647:ILE:HD13	2.53	0.44
1:E:563:GLU:OE2	1:E:613:TYR:OH	2.25	0.44
1:F:402:SER:O	1:R:228:TRP:HB3	2.18	0.44
1:I:228:TRP:HB3	1:J:402:SER:O	2.18	0.44
1:I:315:PHE:CE2	1:I:647:ILE:HD13	2.53	0.44
1:J:524:MET:HB2	1:J:571:PRO:O	2.17	0.44
1:K:402:SER:O	1:7:228:TRP:HB3	2.18	0.44
1:L:615:GLN:OE1	1:L:615:GLN:N	2.50	0.44
1:N:284:PHE:CE2	1:N:649:ILE:HD13	2.52	0.44
1:N:342:VAL:HA	1:N:651:ASN:HA	2.00	0.44
1:N:427:ALA:O	1:N:733:THR:HA	2.17	0.44
1:O:427:ALA:O	1:O:733:THR:HA	2.17	0.44
1:P:524:MET:HG3	1:P:573:ALA:HB2	1.98	0.44
1:S:315:PHE:CE2	1:S:647:ILE:HD13	2.53	0.44
1:S:451:ILE:HG22	1:S:453:GLY:N	2.32	0.44
1:T:315:PHE:CE2	1:T:647:ILE:HD13	2.53	0.44
1:T:524:MET:HB2	1:T:571:PRO:O	2.17	0.44
1:V:315:PHE:CE2	1:V:647:ILE:HD13	2.53	0.44
1:W:315:PHE:CE2	1:W:647:ILE:HD13	2.53	0.44
1:W:420:VAL:HB	1:W:421:PRO:HD2	1.99	0.44
1:X:317:LEU:HD13	1:X:679:VAL:HG12	2.00	0.44
1:X:402:SER:O	1:6:228:TRP:HB3	2.18	0.44
1:X:405:LEU:HB2	1:X:409:ASN:HB2	2.00	0.44
1:Y:315:PHE:CE2	1:Y:647:ILE:HD13	2.53	0.44
1:Z:420:VAL:HB	1:Z:421:PRO:HD2	1.99	0.44
1:Z:442:GLN:HA	1:x:360:HIS:HA	1.99	0.44
1:Z:529:GLU:HB2	1:x:512:ASN:OD1	2.17	0.44
1:3:261:SER:HB3	1:3:275:PHE:HD1	1.83	0.44
1:3:427:ALA:O	1:3:733:THR:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:529:GLU:HB2	1:i:512:ASN:OD1	2.17	0.44
1:5:261:SER:HB3	1:5:275:PHE:HD1	1.83	0.44
1:6:284:PHE:CE2	1:6:649:ILE:HD13	2.52	0.44
1:6:315:PHE:CE2	1:6:647:ILE:HD13	2.53	0.44
1:6:342:VAL:HA	1:6:651:ASN:HA	2.00	0.44
1:a:524:MET:HG3	1:a:573:ALA:HB2	1.98	0.44
1:b:284:PHE:CE2	1:b:649:ILE:HD13	2.52	0.44
1:b:405:LEU:HB2	1:b:409:ASN:HB2	2.00	0.44
1:b:427:ALA:O	1:b:733:THR:HA	2.17	0.44
1:b:451:ILE:HG22	1:b:453:GLY:N	2.32	0.44
1:d:247:TRP:O	1:d:676:THR:HG23	2.18	0.44
1:g:405:LEU:HB2	1:g:409:ASN:HB2	2.00	0.44
1:h:315:PHE:CE2	1:h:647:ILE:HD13	2.53	0.44
1:h:427:ALA:O	1:h:733:THR:HA	2.17	0.44
1:j:298:TRP:CG	1:j:614:LEU:HD12	2.53	0.44
1:k:277:TYR:CD2	1:k:394:PHE:HD1	2.35	0.44
1:k:315:PHE:CE2	1:k:647:ILE:HD13	2.53	0.44
1:l:402:SER:O	1:r:228:TRP:HB3	2.18	0.44
1:m:298:TRP:CG	1:m:614:LEU:HD12	2.53	0.44
1:m:315:PHE:CE2	1:m:647:ILE:HD13	2.53	0.44
1:m:427:ALA:O	1:m:733:THR:HA	2.18	0.44
1:p:247:TRP:O	1:p:676:THR:HG23	2.18	0.44
1:q:442:GLN:HA	1:r:360:HIS:HA	1.99	0.44
1:r:315:PHE:CE2	1:r:647:ILE:HD13	2.53	0.44
1:s:315:PHE:CE2	1:s:647:ILE:HD13	2.53	0.44
1:t:261:SER:HB3	1:t:275:PHE:HD1	1.83	0.44
1:t:529:GLU:HB2	1:u:512:ASN:OD1	2.17	0.44
1:u:361:GLU:HG3	1:u:362:GLY:N	2.30	0.44
1:w:315:PHE:CE2	1:w:647:ILE:HD13	2.53	0.44
1:y:459:GLN:NE2	1:z:496:ASN:O	2.51	0.44
1:z:261:SER:HB3	1:z:275:PHE:HD1	1.83	0.44
1:7:261:SER:HB3	1:7:275:PHE:HD1	1.83	0.44
1:7:405:LEU:HB2	1:7:409:ASN:HB2	2.00	0.44
1:7:563:GLU:OE2	1:7:613:TYR:OH	2.25	0.44
1:8:405:LEU:HB2	1:8:409:ASN:HB2	2.00	0.44
1:A:459:GLN:NE2	1:G:496:ASN:O	2.51	0.44
1:C:402:SER:O	1:D:228:TRP:HB3	2.18	0.44
1:C:459:GLN:NE2	1:2:496:ASN:O	2.51	0.44
1:E:261:SER:HB3	1:E:275:PHE:HD1	1.83	0.44
1:G:315:PHE:CE2	1:G:647:ILE:HD13	2.53	0.44
1:I:222:GLY:O	1:J:406:ARG:HB2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:405:LEU:HB2	1:J:409:ASN:HB2	2.00	0.44
1:J:451:ILE:HG22	1:J:453:GLY:N	2.32	0.44
1:K:459:GLN:NE2	1:1:496:ASN:O	2.51	0.44
1:L:261:SER:HB3	1:L:275:PHE:HD1	1.83	0.44
1:M:512:ASN:OD1	1:2:529:GLU:HB2	2.17	0.44
1:N:315:PHE:CE2	1:N:647:ILE:HD13	2.53	0.44
1:N:615:GLN:OE1	1:N:615:GLN:N	2.49	0.44
1:O:317:LEU:HD13	1:O:679:VAL:HG12	2.00	0.44
1:O:342:VAL:HA	1:O:651:ASN:HA	2.00	0.44
1:O:524:MET:HB2	1:O:571:PRO:O	2.17	0.44
1:P:427:ALA:O	1:P:733:THR:HA	2.17	0.44
1:P:451:ILE:HG22	1:P:453:GLY:N	2.32	0.44
1:R:342:VAL:HA	1:R:651:ASN:HA	2.00	0.44
1:S:247:TRP:O	1:S:676:THR:HG23	2.18	0.44
1:S:377:TYR:CD2	1:S:397:LEU:HD21	2.53	0.44
1:T:377:TYR:CD2	1:T:397:LEU:HD21	2.53	0.44
1:V:342:VAL:HA	1:V:651:ASN:HA	2.00	0.44
1:W:342:VAL:HA	1:W:651:ASN:HA	2.00	0.44
1:X:277:TYR:CD2	1:X:394:PHE:HD1	2.35	0.44
1:X:420:VAL:HB	1:X:421:PRO:HD2	1.99	0.44
1:Y:277:TYR:CD2	1:Y:394:PHE:HD1	2.35	0.44
1:Z:284:PHE:CE2	1:Z:649:ILE:HD13	2.52	0.44
1:Z:298:TRP:CG	1:Z:614:LEU:HD12	2.53	0.44
1:1:261:SER:HB3	1:1:275:PHE:HD1	1.83	0.44
1:1:315:PHE:CE2	1:1:647:ILE:HD13	2.53	0.44
1:2:228:TRP:HB3	1:i:402:SER:O	2.18	0.44
1:5:342:VAL:HA	1:5:651:ASN:HA	2.00	0.44
1:6:427:ALA:O	1:6:733:THR:HA	2.17	0.44
1:a:360:HIS:HA	1:b:442:GLN:HA	1.99	0.44
1:a:405:LEU:HB2	1:a:409:ASN:HB2	2.00	0.44
1:b:298:TRP:CG	1:b:614:LEU:HD12	2.53	0.44
1:d:402:SER:O	1:f:228:TRP:HB3	2.18	0.44
1:e:298:TRP:CG	1:e:614:LEU:HD12	2.53	0.44
1:f:342:VAL:HA	1:f:651:ASN:HA	2.00	0.44
1:f:420:VAL:HB	1:f:421:PRO:HD2	1.99	0.44
1:g:247:TRP:O	1:g:676:THR:HG23	2.18	0.44
1:g:317:LEU:HD13	1:g:679:VAL:HG12	2.00	0.44
1:h:342:VAL:HA	1:h:651:ASN:HA	2.00	0.44
1:h:379:TYR:HH	1:h:395:TYR:H	1.63	0.44
1:i:315:PHE:CE2	1:i:647:ILE:HD13	2.53	0.44
1:j:420:VAL:HB	1:j:421:PRO:HD2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:261:SER:HB3	1:k:275:PHE:HD1	1.83	0.44
1:k:451:ILE:HG22	1:k:453:GLY:N	2.32	0.44
1:k:529:GLU:HB2	1:l:512:ASN:OD1	2.17	0.44
1:l:261:SER:HB3	1:l:275:PHE:HD1	1.83	0.44
1:l:315:PHE:CE2	1:l:647:ILE:HD13	2.53	0.44
1:l:342:VAL:HA	1:l:651:ASN:HA	2.00	0.44
1:n:451:ILE:HG22	1:n:453:GLY:N	2.32	0.44
1:o:261:SER:HB3	1:o:275:PHE:HD1	1.83	0.44
1:p:261:SER:HB3	1:p:275:PHE:HD1	1.83	0.44
1:q:342:VAL:HA	1:q:651:ASN:HA	2.00	0.44
1:u:298:TRP:CG	1:u:614:LEU:HD12	2.53	0.44
1:u:315:PHE:CE2	1:u:647:ILE:HD13	2.53	0.44
1:u:405:LEU:HB2	1:u:409:ASN:HB2	2.00	0.44
1:v:524:MET:HB2	1:v:571:PRO:O	2.17	0.44
1:x:427:ALA:O	1:x:733:THR:HA	2.18	0.44
1:y:402:SER:O	1:8:228:TRP:HB3	2.18	0.44
1:z:315:PHE:CE2	1:z:647:ILE:HD13	2.53	0.44
1:z:342:VAL:HA	1:z:651:ASN:HA	2.00	0.44
1:7:298:TRP:CG	1:7:614:LEU:HD12	2.53	0.44
1:8:563:GLU:OE2	1:8:613:TYR:OH	2.25	0.44
1:A:298:TRP:CG	1:A:614:LEU:HD12	2.53	0.43
1:A:317:LEU:HD13	1:A:679:VAL:HG12	2.00	0.43
1:A:496:ASN:O	1:I:459:GLN:NE2	2.51	0.43
1:C:315:PHE:CE2	1:C:647:ILE:HD13	2.53	0.43
1:C:405:LEU:HB2	1:C:409:ASN:HB2	2.00	0.43
1:D:402:SER:O	1:E:228:TRP:HB3	2.18	0.43
1:E:298:TRP:CG	1:E:614:LEU:HD12	2.53	0.43
1:G:317:LEU:HD13	1:G:679:VAL:HG12	2.00	0.43
1:G:377:TYR:CD2	1:G:397:LEU:HD21	2.53	0.43
1:H:420:VAL:HB	1:H:421:PRO:HD2	1.99	0.43
1:H:529:GLU:HB2	1:W:512:ASN:OD1	2.17	0.43
1:I:377:TYR:CD2	1:I:397:LEU:HD21	2.53	0.43
1:J:315:PHE:CE2	1:J:647:ILE:HD13	2.53	0.43
1:K:317:LEU:HD13	1:K:679:VAL:CG1	2.49	0.43
1:L:277:TYR:CD2	1:L:394:PHE:HD1	2.35	0.43
1:L:427:ALA:O	1:L:733:THR:HA	2.17	0.43
1:M:317:LEU:HD13	1:M:679:VAL:HG12	2.00	0.43
1:N:306:TRP:CZ2	1:N:692:SER:HB2	2.52	0.43
1:N:451:ILE:HG22	1:N:453:GLY:N	2.32	0.43
1:P:228:TRP:HB3	1:Q:402:SER:O	2.18	0.43
1:P:298:TRP:CG	1:P:614:LEU:HD12	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:405:LEU:HB2	1:P:409:ASN:HB2	2.00	0.43
1:Q:377:TYR:CD2	1:Q:397:LEU:HD21	2.53	0.43
1:T:247:TRP:O	1:T:676:THR:HG23	2.18	0.43
1:V:247:TRP:O	1:V:676:THR:HG23	2.18	0.43
1:X:247:TRP:O	1:X:676:THR:HG23	2.18	0.43
1:X:427:ALA:O	1:X:733:THR:HA	2.17	0.43
1:Y:377:TYR:CD2	1:Y:397:LEU:HD21	2.53	0.43
1:1:317:LEU:HD13	1:1:679:VAL:CG1	2.48	0.43
1:1:342:VAL:HA	1:1:651:ASN:HA	2.00	0.43
1:1:420:VAL:HB	1:1:421:PRO:HD2	1.99	0.43
1:3:360:HIS:HA	1:j:442:GLN:HA	1.99	0.43
1:3:361:GLU:HG3	1:3:362:GLY:N	2.30	0.43
1:5:306:TRP:CZ2	1:5:692:SER:HB2	2.52	0.43
1:5:317:LEU:HD13	1:5:679:VAL:HG12	2.00	0.43
1:5:427:ALA:O	1:5:733:THR:HA	2.17	0.43
1:6:615:GLN:OE1	1:6:615:GLN:N	2.49	0.43
1:a:402:SER:O	1:e:228:TRP:HB3	2.18	0.43
1:b:317:LEU:HD13	1:b:679:VAL:HG12	2.00	0.43
1:c:377:TYR:CD2	1:c:397:LEU:HD21	2.53	0.43
1:d:228:TRP:HB3	1:r:402:SER:O	2.18	0.43
1:d:306:TRP:CZ2	1:d:692:SER:HB2	2.52	0.43
1:h:247:TRP:O	1:h:676:THR:HG23	2.18	0.43
1:i:405:LEU:HB2	1:i:409:ASN:HB2	2.00	0.43
1:j:402:SER:O	1:z:228:TRP:HB3	2.18	0.43
1:k:420:VAL:HB	1:k:421:PRO:HD2	1.99	0.43
1:m:277:TYR:CD2	1:m:394:PHE:HD1	2.35	0.43
1:m:342:VAL:HA	1:m:651:ASN:HA	2.00	0.43
1:m:377:TYR:CD2	1:m:397:LEU:HD21	2.53	0.43
1:n:402:SER:O	1:s:228:TRP:HB3	2.18	0.43
1:o:402:SER:O	1:y:228:TRP:HB3	2.18	0.43
1:q:298:TRP:CG	1:q:614:LEU:HD12	2.53	0.43
1:t:317:LEU:HD13	1:t:679:VAL:HG12	2.00	0.43
1:v:228:TRP:HB3	1:w:402:SER:O	2.18	0.43
1:v:247:TRP:O	1:v:676:THR:HG23	2.18	0.43
1:x:361:GLU:HG3	1:x:362:GLY:N	2.30	0.43
1:y:317:LEU:HD13	1:y:679:VAL:CG1	2.49	0.43
1:y:427:ALA:O	1:y:733:THR:HA	2.17	0.43
1:z:317:LEU:HD13	1:z:679:VAL:CG1	2.48	0.43
1:8:261:SER:HB3	1:8:275:PHE:HD1	1.83	0.43
1:8:306:TRP:CZ2	1:8:692:SER:HB2	2.52	0.43
1:A:405:LEU:HB2	1:A:409:ASN:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:277:TYR:CE2	1:B:394:PHE:HD1	2.37	0.43
1:C:277:TYR:CD2	1:C:394:PHE:HD1	2.35	0.43
1:D:315:PHE:CE2	1:D:647:ILE:HD13	2.53	0.43
1:D:377:TYR:CD2	1:D:397:LEU:HD21	2.53	0.43
1:F:228:TRP:HB3	1:G:402:SER:O	2.18	0.43
1:F:342:VAL:HA	1:F:651:ASN:HA	2.00	0.43
1:G:317:LEU:HD13	1:G:679:VAL:CG1	2.49	0.43
1:H:377:TYR:CD2	1:H:397:LEU:HD21	2.53	0.43
1:H:451:ILE:HG22	1:H:453:GLY:N	2.32	0.43
1:J:342:VAL:HA	1:J:651:ASN:HA	2.00	0.43
1:J:420:VAL:HB	1:J:421:PRO:HD2	1.99	0.43
1:K:427:ALA:O	1:K:733:THR:HA	2.17	0.43
1:M:451:ILE:HG22	1:M:453:GLY:N	2.32	0.43
1:N:405:LEU:HB2	1:N:409:ASN:HB2	2.00	0.43
1:O:377:TYR:CD2	1:O:397:LEU:HD21	2.53	0.43
1:O:406:ARG:HB2	1:4:222:GLY:O	2.18	0.43
1:P:317:LEU:HD13	1:P:679:VAL:HG12	2.00	0.43
1:Q:247:TRP:O	1:Q:676:THR:HG23	2.18	0.43
1:R:261:SER:HB3	1:R:275:PHE:HD1	1.83	0.43
1:R:420:VAL:HB	1:R:421:PRO:HD2	1.99	0.43
1:U:222:GLY:O	1:5:406:ARG:HB2	2.19	0.43
1:U:298:TRP:CG	1:U:614:LEU:HD12	2.53	0.43
1:U:315:PHE:CE2	1:U:647:ILE:HD13	2.53	0.43
1:U:700:GLN:O	1:V:702:THR:HG21	2.19	0.43
1:V:277:TYR:CD2	1:V:394:PHE:HD1	2.35	0.43
1:V:317:LEU:HD13	1:V:679:VAL:CG1	2.49	0.43
1:W:261:SER:HB3	1:W:275:PHE:HD1	1.83	0.43
1:Y:342:VAL:HA	1:Y:651:ASN:HA	2.00	0.43
1:Z:317:LEU:HD13	1:Z:679:VAL:CG1	2.49	0.43
1:Z:402:SER:O	1:1:228:TRP:HB3	2.18	0.43
1:2:247:TRP:O	1:2:676:THR:HG23	2.18	0.43
1:2:317:LEU:HD13	1:2:679:VAL:CG1	2.48	0.43
1:2:524:MET:HB2	1:2:571:PRO:O	2.17	0.43
1:4:700:GLN:O	1:h:702:THR:HG21	2.19	0.43
1:5:377:TYR:CD2	1:5:397:LEU:HD21	2.53	0.43
1:6:306:TRP:CZ2	1:6:692:SER:HB2	2.52	0.43
1:6:451:ILE:HG22	1:6:453:GLY:N	2.32	0.43
1:a:377:TYR:CD2	1:a:397:LEU:HD21	2.53	0.43
1:b:228:TRP:HB3	1:c:402:SER:O	2.18	0.43
1:d:315:PHE:CE2	1:d:647:ILE:HD13	2.53	0.43
1:d:342:VAL:HA	1:d:651:ASN:HA	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:377:TYR:CD2	1:d:397:LEU:HD21	2.53	0.43
1:e:261:SER:HB3	1:e:275:PHE:HD1	1.83	0.43
1:f:317:LEU:HD13	1:f:679:VAL:CG1	2.48	0.43
1:g:420:VAL:HB	1:g:421:PRO:HD2	1.99	0.43
1:h:317:LEU:HD13	1:h:679:VAL:CG1	2.49	0.43
1:i:247:TRP:O	1:i:676:THR:HG23	2.18	0.43
1:j:317:LEU:HD13	1:j:679:VAL:CG1	2.49	0.43
1:k:247:TRP:O	1:k:676:THR:HG23	2.18	0.43
1:n:315:PHE:CE2	1:n:647:ILE:HD13	2.53	0.43
1:n:420:VAL:HB	1:n:421:PRO:HD2	1.99	0.43
1:n:459:GLN:NE2	1:o:496:ASN:O	2.52	0.43
1:o:277:TYR:CD2	1:o:394:PHE:HD1	2.35	0.43
1:p:277:TYR:CE2	1:p:394:PHE:HD1	2.37	0.43
1:q:317:LEU:HD13	1:q:679:VAL:HG12	2.00	0.43
1:r:317:LEU:HD13	1:r:679:VAL:CG1	2.49	0.43
1:r:342:VAL:HA	1:r:651:ASN:HA	2.00	0.43
1:r:377:TYR:CD2	1:r:397:LEU:HD21	2.53	0.43
1:s:377:TYR:CD2	1:s:397:LEU:HD21	2.53	0.43
1:t:277:TYR:CE2	1:t:394:PHE:HD1	2.37	0.43
1:t:342:VAL:HA	1:t:651:ASN:HA	2.00	0.43
1:t:451:ILE:HG22	1:t:453:GLY:N	2.32	0.43
1:u:277:TYR:CD2	1:u:394:PHE:HD1	2.35	0.43
1:u:459:GLN:NE2	1:v:496:ASN:O	2.51	0.43
1:v:317:LEU:HD13	1:v:679:VAL:CG1	2.48	0.43
1:w:247:TRP:O	1:w:676:THR:HG23	2.18	0.43
1:w:277:TYR:CE2	1:w:394:PHE:HD1	2.37	0.43
1:w:405:LEU:HB2	1:w:409:ASN:HB2	2.00	0.43
1:y:315:PHE:CE2	1:y:647:ILE:HD13	2.53	0.43
1:7:306:TRP:CZ2	1:7:692:SER:HB2	2.52	0.43
1:8:298:TRP:CG	1:8:614:LEU:HD12	2.53	0.43
1:A:247:TRP:O	1:A:676:THR:HG23	2.18	0.43
1:A:261:SER:HB3	1:A:275:PHE:HD1	1.83	0.43
1:A:317:LEU:HD13	1:A:679:VAL:CG1	2.49	0.43
1:A:377:TYR:CD2	1:A:397:LEU:HD21	2.53	0.43
1:A:442:GLN:HA	1:G:360:HIS:HA	2.00	0.43
1:D:317:LEU:HD13	1:D:679:VAL:CG1	2.49	0.43
1:D:342:VAL:HA	1:D:651:ASN:HA	2.00	0.43
1:D:405:LEU:HB2	1:D:409:ASN:HB2	2.00	0.43
1:D:615:GLN:OE1	1:D:615:GLN:N	2.50	0.43
1:F:306:TRP:CZ2	1:F:692:SER:HB2	2.52	0.43
1:F:315:PHE:CE2	1:F:647:ILE:HD13	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:342:VAL:HA	1:G:651:ASN:HA	2.00	0.43
1:G:420:VAL:HB	1:G:421:PRO:HD2	1.99	0.43
1:H:247:TRP:O	1:H:676:THR:HG23	2.18	0.43
1:H:496:ASN:O	1:Y:459:GLN:NE2	2.52	0.43
1:J:459:GLN:NE2	1:L:496:ASN:O	2.52	0.43
1:K:228:TRP:HB3	1:L:402:SER:O	2.18	0.43
1:K:315:PHE:CE2	1:K:647:ILE:HD13	2.53	0.43
1:M:277:TYR:CE2	1:M:394:PHE:HD1	2.37	0.43
1:M:342:VAL:HA	1:M:651:ASN:HA	2.00	0.43
1:O:247:TRP:O	1:O:676:THR:HG23	2.18	0.43
1:R:317:LEU:HD13	1:R:679:VAL:CG1	2.48	0.43
1:T:317:LEU:HD13	1:T:679:VAL:HG12	2.00	0.43
1:X:615:GLN:N	1:X:615:GLN:OE1	2.50	0.43
1:2:277:TYR:CE2	1:2:394:PHE:HD1	2.37	0.43
1:2:377:TYR:CD2	1:2:397:LEU:HD21	2.53	0.43
1:2:405:LEU:HB2	1:2:409:ASN:HB2	2.00	0.43
1:3:405:LEU:HB2	1:3:409:ASN:HB2	2.00	0.43
1:4:298:TRP:CG	1:4:614:LEU:HD12	2.53	0.43
1:4:315:PHE:CE2	1:4:647:ILE:HD13	2.53	0.43
1:4:317:LEU:HD13	1:4:679:VAL:HG12	2.00	0.43
1:5:247:TRP:O	1:5:676:THR:HG23	2.18	0.43
1:6:405:LEU:HB2	1:6:409:ASN:HB2	2.00	0.43
1:6:420:VAL:HB	1:6:421:PRO:HD2	1.99	0.43
1:a:228:TRP:HB3	1:u:402:SER:O	2.18	0.43
1:a:317:LEU:HD13	1:a:679:VAL:CG1	2.48	0.43
1:a:406:ARG:HB2	1:e:222:GLY:O	2.19	0.43
1:a:527:HIS:HB2	1:a:532:ASP:HA	2.01	0.43
1:c:247:TRP:O	1:c:676:THR:HG23	2.18	0.43
1:d:545:LYS:O	1:d:548:THR:OG1	2.34	0.43
1:e:402:SER:O	1:q:228:TRP:HB3	2.18	0.43
1:f:261:SER:HB3	1:f:275:PHE:HD1	1.83	0.43
1:g:222:GLY:O	1:m:406:ARG:HB2	2.18	0.43
1:g:315:PHE:CE2	1:g:647:ILE:HD13	2.53	0.43
1:g:427:ALA:O	1:g:733:THR:HA	2.17	0.43
1:h:277:TYR:CD2	1:h:394:PHE:HD1	2.35	0.43
1:i:277:TYR:CE2	1:i:394:PHE:HD1	2.37	0.43
1:k:317:LEU:HD13	1:k:679:VAL:HG12	2.00	0.43
1:k:496:ASN:O	1:m:459:GLN:NE2	2.52	0.43
1:k:615:GLN:N	1:k:615:GLN:OE1	2.50	0.43
1:l:317:LEU:HD13	1:l:679:VAL:CG1	2.49	0.43
1:m:420:VAL:HB	1:m:421:PRO:HD2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:222:GLY:O	1:z:406:ARG:HB2	2.18	0.43
1:n:342:VAL:HA	1:n:651:ASN:HA	2.00	0.43
1:n:406:ARG:HB2	1:s:222:GLY:O	2.19	0.43
1:o:222:GLY:O	1:v:406:ARG:HB2	2.18	0.43
1:o:427:ALA:O	1:o:733:THR:HA	2.17	0.43
1:q:247:TRP:O	1:q:676:THR:HG23	2.18	0.43
1:q:317:LEU:HD13	1:q:679:VAL:CG1	2.49	0.43
1:q:405:LEU:HB2	1:q:409:ASN:HB2	2.00	0.43
1:r:420:VAL:HB	1:r:421:PRO:HD2	1.99	0.43
1:u:442:GLN:HA	1:v:360:HIS:HA	1.99	0.43
1:v:277:TYR:CE2	1:v:394:PHE:HD1	2.37	0.43
1:v:405:LEU:HB2	1:v:409:ASN:HB2	2.00	0.43
1:y:247:TRP:O	1:y:676:THR:HG23	2.18	0.43
1:z:405:LEU:HB2	1:z:409:ASN:HB2	2.00	0.43
1:z:420:VAL:HB	1:z:421:PRO:HD2	1.99	0.43
1:8:342:VAL:HA	1:8:651:ASN:HA	2.00	0.43
1:A:228:TRP:HB3	1:E:402:SER:O	2.18	0.43
1:B:249:LEU:HD22	1:B:649:ILE:HD12	2.01	0.43
1:B:459:GLN:NE2	1:J:496:ASN:O	2.52	0.43
1:C:249:LEU:HD22	1:C:649:ILE:HD12	2.01	0.43
1:F:377:TYR:CD2	1:F:397:LEU:HD21	2.53	0.43
1:G:222:GLY:O	1:W:406:ARG:HB2	2.19	0.43
1:G:405:LEU:HB2	1:G:409:ASN:HB2	2.00	0.43
1:H:459:GLN:NE2	1:W:496:ASN:O	2.52	0.43
1:I:405:LEU:HB2	1:I:409:ASN:HB2	2.00	0.43
1:J:222:GLY:O	1:1:406:ARG:HB2	2.18	0.43
1:J:277:TYR:CE2	1:J:394:PHE:HD1	2.36	0.43
1:K:247:TRP:O	1:K:676:THR:HG23	2.18	0.43
1:K:377:TYR:CD2	1:K:397:LEU:HD21	2.53	0.43
1:L:222:GLY:O	1:2:406:ARG:HB2	2.18	0.43
1:L:315:PHE:CE2	1:L:647:ILE:HD13	2.53	0.43
1:L:317:LEU:HD13	1:L:679:VAL:CG1	2.48	0.43
1:M:247:TRP:O	1:M:676:THR:HG23	2.18	0.43
1:N:420:VAL:HB	1:N:421:PRO:HD2	1.99	0.43
1:O:306:TRP:CZ2	1:O:692:SER:HB2	2.52	0.43
1:Q:317:LEU:HD13	1:Q:679:VAL:CG1	2.49	0.43
1:R:247:TRP:O	1:R:676:THR:HG23	2.18	0.43
1:R:459:GLN:NE2	1:S:496:ASN:O	2.52	0.43
1:S:317:LEU:HD13	1:S:679:VAL:HG12	2.00	0.43
1:T:496:ASN:O	1:f:459:GLN:NE2	2.52	0.43
1:U:277:TYR:CE2	1:U:394:PHE:HD1	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:317:LEU:HD13	1:U:679:VAL:HG12	2.00	0.43
1:W:317:LEU:HD13	1:W:679:VAL:CG1	2.49	0.43
1:W:702:THR:HG21	1:X:700:GLN:O	2.18	0.43
1:Y:228:TRP:HB3	1:x:402:SER:O	2.18	0.43
1:Y:277:TYR:CE2	1:Y:394:PHE:HD1	2.37	0.43
1:Y:420:VAL:HB	1:Y:421:PRO:HD2	1.99	0.43
1:Z:459:GLN:NE2	1:x:496:ASN:O	2.52	0.43
1:1:277:TYR:CE2	1:1:394:PHE:HD1	2.37	0.43
1:1:405:LEU:HB2	1:1:409:ASN:HB2	2.00	0.43
1:3:342:VAL:HA	1:3:651:ASN:HA	2.00	0.43
1:4:277:TYR:CE2	1:4:394:PHE:HD1	2.37	0.43
1:6:360:HIS:HA	1:a:442:GLN:HA	1.99	0.43
1:6:406:ARG:HB2	1:t:222:GLY:O	2.19	0.43
1:a:315:PHE:CE2	1:a:647:ILE:HD13	2.53	0.43
1:a:615:GLN:OE1	1:a:615:GLN:N	2.50	0.43
1:c:317:LEU:HD13	1:c:679:VAL:CG1	2.49	0.43
1:d:249:LEU:HD22	1:d:649:ILE:HD12	2.01	0.43
1:d:527:HIS:HB2	1:d:532:ASP:HA	2.01	0.43
1:e:377:TYR:CD2	1:e:397:LEU:HD21	2.53	0.43
1:f:247:TRP:O	1:f:676:THR:HG23	2.18	0.43
1:g:306:TRP:CZ2	1:g:692:SER:HB2	2.52	0.43
1:g:615:GLN:OE1	1:g:615:GLN:N	2.50	0.43
1:g:700:GLN:O	1:l:702:THR:HG21	2.19	0.43
1:k:377:TYR:CD2	1:k:397:LEU:HD21	2.53	0.43
1:k:459:GLN:NE2	1:l:496:ASN:O	2.52	0.43
1:n:377:TYR:CD2	1:n:397:LEU:HD21	2.53	0.43
1:n:496:ASN:O	1:p:459:GLN:NE2	2.52	0.43
1:n:700:GLN:O	1:y:702:THR:HG21	2.19	0.43
1:o:317:LEU:HD13	1:o:679:VAL:CG1	2.48	0.43
1:o:342:VAL:HA	1:o:651:ASN:HA	2.00	0.43
1:p:249:LEU:HD22	1:p:649:ILE:HD12	2.01	0.43
1:p:420:VAL:HB	1:p:421:PRO:HD2	1.99	0.43
1:q:377:TYR:CD2	1:q:397:LEU:HD21	2.53	0.43
1:t:247:TRP:O	1:t:676:THR:HG23	2.18	0.43
1:u:249:LEU:HD22	1:u:649:ILE:HD12	2.01	0.43
1:v:377:TYR:CD2	1:v:397:LEU:HD21	2.53	0.43
1:w:284:PHE:CE2	1:w:649:ILE:HD13	2.52	0.43
1:z:277:TYR:CE2	1:z:394:PHE:HD1	2.37	0.43
1:7:315:PHE:CE2	1:7:647:ILE:HD13	2.53	0.43
1:7:342:VAL:HA	1:7:651:ASN:HA	2.00	0.43
1:7:377:TYR:CD2	1:7:397:LEU:HD21	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:315:PHE:CE2	1:8:647:ILE:HD13	2.53	0.43
1:B:405:LEU:HB2	1:B:409:ASN:HB2	2.00	0.43
1:B:420:VAL:HB	1:B:421:PRO:HD2	1.99	0.43
1:C:377:TYR:CD2	1:C:397:LEU:HD21	2.53	0.43
1:C:442:GLN:HA	1:2:360:HIS:HA	1.99	0.43
1:D:317:LEU:HD13	1:D:679:VAL:HG12	2.00	0.43
1:D:406:ARG:HB2	1:E:222:GLY:O	2.19	0.43
1:D:527:HIS:HB2	1:D:532:ASP:HA	2.01	0.43
1:E:377:TYR:CD2	1:E:397:LEU:HD21	2.53	0.43
1:F:249:LEU:HD22	1:F:649:ILE:HD12	2.01	0.43
1:F:527:HIS:HB2	1:F:532:ASP:HA	2.01	0.43
1:H:406:ARG:HB2	1:Z:222:GLY:O	2.18	0.43
1:H:615:GLN:N	1:H:615:GLN:OE1	2.50	0.43
1:I:317:LEU:HD13	1:I:679:VAL:CG1	2.49	0.43
1:J:377:TYR:CD2	1:J:397:LEU:HD21	2.53	0.43
1:J:442:GLN:HA	1:L:360:HIS:HA	1.99	0.43
1:J:700:GLN:O	1:K:702:THR:HG21	2.19	0.43
1:K:261:SER:HB3	1:K:275:PHE:HD1	1.83	0.43
1:K:406:ARG:HB2	1:7:222:GLY:O	2.18	0.43
1:M:377:TYR:CD2	1:M:397:LEU:HD21	2.53	0.43
1:M:719:GLY:HA2	1:N:257:TYR:O	2.17	0.43
1:O:317:LEU:HD13	1:O:679:VAL:CG1	2.48	0.43
1:O:459:GLN:NE2	1:g:496:ASN:O	2.52	0.43
1:O:527:HIS:HB2	1:O:532:ASP:HA	2.01	0.43
1:Q:700:GLN:O	1:R:702:THR:HG21	2.19	0.43
1:R:406:ARG:HB2	1:V:222:GLY:O	2.18	0.43
1:S:342:VAL:HA	1:S:651:ASN:HA	2.00	0.43
1:S:527:HIS:HB2	1:S:532:ASP:HA	2.01	0.43
1:T:406:ARG:HB2	1:c:222:GLY:O	2.18	0.43
1:T:527:HIS:HB2	1:T:532:ASP:HA	2.01	0.43
1:U:261:SER:HB3	1:U:275:PHE:HD1	1.83	0.43
1:W:247:TRP:O	1:W:676:THR:HG23	2.18	0.43
1:X:222:GLY:O	1:Y:406:ARG:HB2	2.18	0.43
1:X:306:TRP:CZ2	1:X:692:SER:HB2	2.52	0.43
1:X:315:PHE:CE2	1:X:647:ILE:HD13	2.53	0.43
1:X:496:ASN:O	1:5:459:GLN:NE2	2.51	0.43
1:2:249:LEU:HD22	1:2:649:ILE:HD12	2.01	0.43
1:3:402:SER:O	1:m:228:TRP:HB3	2.18	0.43
1:3:459:GLN:NE2	1:i:496:ASN:O	2.52	0.43
1:3:496:ASN:O	1:j:459:GLN:NE2	2.52	0.43
1:5:317:LEU:HD13	1:5:679:VAL:CG1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:527:HIS:HB2	1:5:532:ASP:HA	2.01	0.43
1:6:249:LEU:HD22	1:6:649:ILE:HD12	2.01	0.43
1:a:317:LEU:HD13	1:a:679:VAL:HG12	2.00	0.43
1:a:342:VAL:HA	1:a:651:ASN:HA	2.00	0.43
1:c:298:TRP:CG	1:c:614:LEU:HD12	2.53	0.43
1:c:342:VAL:HA	1:c:651:ASN:HA	2.00	0.43
1:c:700:GLN:O	1:f:702:THR:HG21	2.19	0.43
1:i:261:SER:HB3	1:i:275:PHE:HD1	1.83	0.43
1:i:342:VAL:HA	1:i:651:ASN:HA	2.00	0.43
1:k:317:LEU:HD13	1:k:679:VAL:CG1	2.49	0.43
1:l:247:TRP:O	1:l:676:THR:HG23	2.18	0.43
1:m:277:TYR:CE2	1:m:394:PHE:HD1	2.37	0.43
1:n:228:TRP:HB3	1:z:402:SER:O	2.18	0.43
1:n:277:TYR:CE2	1:n:394:PHE:HD1	2.37	0.43
1:n:317:LEU:HD13	1:n:679:VAL:CG1	2.49	0.43
1:n:442:GLN:HA	1:o:360:HIS:HA	1.99	0.43
1:p:405:LEU:HB2	1:p:409:ASN:HB2	2.00	0.43
1:q:261:SER:HB3	1:q:275:PHE:HD1	1.83	0.43
1:q:459:GLN:NE2	1:r:496:ASN:O	2.52	0.43
1:r:405:LEU:HB2	1:r:409:ASN:HB2	2.00	0.43
1:s:405:LEU:HB2	1:s:409:ASN:HB2	2.00	0.43
1:t:317:LEU:HD13	1:t:679:VAL:CG1	2.48	0.43
1:u:377:TYR:CD2	1:u:397:LEU:HD21	2.53	0.43
1:v:249:LEU:HD22	1:v:649:ILE:HD12	2.01	0.43
1:v:379:TYR:OH	1:v:395:TYR:N	2.36	0.43
1:w:261:SER:HB3	1:w:275:PHE:HD1	1.83	0.43
1:x:342:VAL:HA	1:x:651:ASN:HA	2.00	0.43
1:x:405:LEU:HB2	1:x:409:ASN:HB2	2.00	0.43
1:y:377:TYR:CD2	1:y:397:LEU:HD21	2.53	0.43
1:y:406:ARG:HB2	1:8:222:GLY:O	2.18	0.43
1:z:317:LEU:HD13	1:z:679:VAL:HG12	2.00	0.43
1:7:247:TRP:O	1:7:676:THR:HG23	2.18	0.43
1:7:249:LEU:HD22	1:7:649:ILE:HD12	2.01	0.43
1:8:249:LEU:HD22	1:8:649:ILE:HD12	2.01	0.43
1:8:377:TYR:CD2	1:8:397:LEU:HD21	2.53	0.43
1:A:277:TYR:CE2	1:A:394:PHE:HD1	2.37	0.43
1:F:420:VAL:HB	1:F:421:PRO:HD2	1.99	0.43
1:H:317:LEU:HD13	1:H:679:VAL:CG1	2.49	0.43
1:I:247:TRP:O	1:I:676:THR:HG23	2.18	0.43
1:I:317:LEU:HD13	1:I:679:VAL:HG12	2.00	0.43
1:I:527:HIS:HB2	1:I:532:ASP:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:228:TRP:HB3	1:1:402:SER:O	2.18	0.43
1:J:317:LEU:HD13	1:J:679:VAL:CG1	2.49	0.43
1:L:228:TRP:HB3	1:2:402:SER:O	2.18	0.43
1:L:317:LEU:HD13	1:L:679:VAL:HG12	2.00	0.43
1:L:342:VAL:HA	1:L:651:ASN:HA	2.00	0.43
1:M:317:LEU:HD13	1:M:679:VAL:CG1	2.49	0.43
1:M:402:SER:O	1:3:228:TRP:HB3	2.18	0.43
1:M:496:ASN:O	1:2:459:GLN:NE2	2.52	0.43
1:N:247:TRP:O	1:N:676:THR:HG23	2.18	0.43
1:O:436:MET:HE2	1:O:436:MET:HB2	1.89	0.43
1:Q:222:GLY:O	1:S:406:ARG:HB2	2.18	0.43
1:Q:298:TRP:CG	1:Q:614:LEU:HD12	2.53	0.43
1:Q:342:VAL:HA	1:Q:651:ASN:HA	2.00	0.43
1:S:288:ARG:HH21	1:S:615:GLN:HB3	1.84	0.43
1:S:405:LEU:HB2	1:S:409:ASN:HB2	2.00	0.43
1:T:288:ARG:HH21	1:T:615:GLN:HB3	1.84	0.43
1:T:342:VAL:HA	1:T:651:ASN:HA	2.00	0.43
1:T:563:GLU:OE2	1:T:613:TYR:OH	2.25	0.43
1:U:342:VAL:HA	1:U:651:ASN:HA	2.00	0.43
1:U:527:HIS:HB2	1:U:532:ASP:HA	2.01	0.43
1:V:527:HIS:HB2	1:V:532:ASP:HA	2.01	0.43
1:W:377:TYR:CD2	1:W:397:LEU:HD21	2.53	0.43
1:Z:342:VAL:HA	1:Z:651:ASN:HA	2.00	0.43
1:2:315:PHE:CE2	1:2:647:ILE:HD13	2.53	0.43
1:5:277:TYR:CE2	1:5:394:PHE:HD1	2.37	0.43
1:5:298:TRP:CG	1:5:614:LEU:HD12	2.53	0.43
1:5:700:GLN:O	1:6:702:THR:HG21	2.19	0.43
1:a:261:SER:HB3	1:a:275:PHE:HD1	1.83	0.43
1:b:306:TRP:CZ2	1:b:692:SER:HB2	2.52	0.43
1:e:247:TRP:O	1:e:676:THR:HG23	2.18	0.43
1:f:249:LEU:HD22	1:f:649:ILE:HD12	2.01	0.43
1:f:406:ARG:HB2	1:h:222:GLY:O	2.18	0.43
1:h:527:HIS:HB2	1:h:532:ASP:HA	2.01	0.43
1:i:284:PHE:CE2	1:i:649:ILE:HD13	2.52	0.43
1:j:222:GLY:O	1:k:406:ARG:HB2	2.18	0.43
1:j:249:LEU:HD22	1:j:649:ILE:HD12	2.01	0.43
1:j:342:VAL:HA	1:j:651:ASN:HA	2.00	0.43
1:l:406:ARG:HB2	1:r:222:GLY:O	2.19	0.43
1:m:317:LEU:HD13	1:m:679:VAL:HG12	2.00	0.43
1:n:288:ARG:HH21	1:n:615:GLN:HB3	1.84	0.43
1:o:315:PHE:CE2	1:o:647:ILE:HD13	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:702:THR:HG21	1:u:700:GLN:O	2.19	0.43
1:p:342:VAL:HA	1:p:651:ASN:HA	2.00	0.43
1:q:277:TYR:CE2	1:q:394:PHE:HD1	2.37	0.43
1:r:459:GLN:NE2	1:s:496:ASN:O	2.52	0.43
1:r:527:HIS:HB2	1:r:532:ASP:HA	2.01	0.43
1:s:317:LEU:HD13	1:s:679:VAL:HG12	2.00	0.43
1:t:377:TYR:CD2	1:t:397:LEU:HD21	2.53	0.43
1:t:402:SER:O	1:x:228:TRP:HB3	2.18	0.43
1:t:496:ASN:O	1:v:459:GLN:NE2	2.52	0.43
1:v:315:PHE:CE2	1:v:647:ILE:HD13	2.53	0.43
1:w:342:VAL:HA	1:w:651:ASN:HA	2.00	0.43
1:w:496:ASN:O	1:x:459:GLN:NE2	2.52	0.43
1:x:317:LEU:HD13	1:x:679:VAL:CG1	2.49	0.43
1:y:261:SER:HB3	1:y:275:PHE:HD1	1.83	0.43
1:8:247:TRP:O	1:8:676:THR:HG23	2.18	0.43
1:8:317:LEU:HD13	1:8:679:VAL:CG1	2.49	0.43
1:B:298:TRP:CG	1:B:614:LEU:HD12	2.53	0.43
1:B:527:HIS:HB2	1:B:532:ASP:HA	2.01	0.43
1:C:496:ASN:O	1:M:459:GLN:NE2	2.52	0.43
1:F:261:SER:HB3	1:F:275:PHE:HD1	1.83	0.43
1:F:277:TYR:CE2	1:F:394:PHE:HD1	2.37	0.43
1:H:317:LEU:HD13	1:H:679:VAL:HG12	2.00	0.43
1:I:277:TYR:CE2	1:I:394:PHE:HD1	2.37	0.43
1:I:288:ARG:HH21	1:I:615:GLN:HB3	1.84	0.43
1:J:288:ARG:HH21	1:J:615:GLN:HB3	1.84	0.43
1:K:222:GLY:O	1:L:406:ARG:HB2	2.19	0.43
1:K:405:LEU:HB2	1:K:409:ASN:HB2	2.00	0.43
1:K:496:ASN:O	1:8:459:GLN:NE2	2.52	0.43
1:K:615:GLN:N	1:K:615:GLN:OE1	2.49	0.43
1:L:288:ARG:HH21	1:L:615:GLN:HB3	1.84	0.43
1:M:298:TRP:CG	1:M:614:LEU:HD12	2.53	0.43
1:M:406:ARG:HB2	1:3:222:GLY:O	2.18	0.43
1:M:527:HIS:HB2	1:M:532:ASP:HA	2.01	0.43
1:N:249:LEU:HD22	1:N:649:ILE:HD12	2.01	0.43
1:N:277:TYR:CE2	1:N:394:PHE:HD1	2.37	0.43
1:N:474:GLN:C	1:P:519:ASN:HD22	2.27	0.43
1:O:277:TYR:CE2	1:O:394:PHE:HD1	2.37	0.43
1:O:298:TRP:CG	1:O:614:LEU:HD12	2.53	0.43
1:P:249:LEU:HD22	1:P:649:ILE:HD12	2.01	0.43
1:Q:277:TYR:CE2	1:Q:394:PHE:HD1	2.37	0.43
1:R:249:LEU:HD22	1:R:649:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:315:PHE:CE2	1:R:647:ILE:HD13	2.53	0.43
1:S:277:TYR:CE2	1:S:394:PHE:HD1	2.37	0.43
1:T:277:TYR:CE2	1:T:394:PHE:HD1	2.37	0.43
1:T:405:LEU:HB2	1:T:409:ASN:HB2	2.00	0.43
1:U:377:TYR:CD2	1:U:397:LEU:HD21	2.53	0.43
1:V:261:SER:HB3	1:V:275:PHE:HD1	1.83	0.43
1:V:459:GLN:NE2	1:5:496:ASN:O	2.52	0.43
1:Y:288:ARG:HH21	1:Y:615:GLN:HB3	1.84	0.43
1:Y:317:LEU:HD13	1:Y:679:VAL:HG12	2.00	0.43
1:Z:249:LEU:HD22	1:Z:649:ILE:HD12	2.01	0.43
1:1:317:LEU:HD13	1:1:679:VAL:HG12	2.00	0.43
1:1:527:HIS:HB2	1:1:532:ASP:HA	2.01	0.43
1:2:702:THR:HG21	1:3:700:GLN:O	2.19	0.43
1:3:315:PHE:CE2	1:3:647:ILE:HD13	2.53	0.43
1:3:317:LEU:HD13	1:3:679:VAL:CG1	2.49	0.43
1:4:261:SER:HB3	1:4:275:PHE:HD1	1.83	0.43
1:4:342:VAL:HA	1:4:651:ASN:HA	2.00	0.43
1:4:377:TYR:CD2	1:4:397:LEU:HD21	2.53	0.43
1:4:527:HIS:HB2	1:4:532:ASP:HA	2.01	0.43
1:a:496:ASN:O	1:b:459:GLN:NE2	2.52	0.43
1:b:249:LEU:HD22	1:b:649:ILE:HD12	2.01	0.43
1:c:277:TYR:CE2	1:c:394:PHE:HD1	2.37	0.43
1:d:277:TYR:CE2	1:d:394:PHE:HD1	2.37	0.43
1:f:315:PHE:CE2	1:f:647:ILE:HD13	2.53	0.43
1:g:377:TYR:CD2	1:g:397:LEU:HD21	2.53	0.43
1:h:261:SER:HB3	1:h:275:PHE:HD1	1.83	0.43
1:j:277:TYR:CE2	1:j:394:PHE:HD1	2.37	0.43
1:l:377:TYR:CD2	1:l:397:LEU:HD21	2.53	0.43
1:m:288:ARG:HH21	1:m:615:GLN:HB3	1.84	0.43
1:p:527:HIS:HB2	1:p:532:ASP:HA	2.01	0.43
1:p:702:THR:HG21	1:s:700:GLN:O	2.19	0.43
1:s:247:TRP:O	1:s:676:THR:HG23	2.18	0.43
1:s:288:ARG:HH21	1:s:615:GLN:HB3	1.84	0.43
1:s:317:LEU:HD13	1:s:679:VAL:CG1	2.49	0.43
1:s:527:HIS:HB2	1:s:532:ASP:HA	2.01	0.43
1:t:298:TRP:CG	1:t:614:LEU:HD12	2.53	0.43
1:t:527:HIS:HB2	1:t:532:ASP:HA	2.01	0.43
1:u:277:TYR:CE2	1:u:394:PHE:HD1	2.37	0.43
1:w:228:TRP:HB3	1:8:402:SER:O	2.18	0.43
1:y:496:ASN:O	1:7:459:GLN:NE2	2.52	0.43
1:z:277:TYR:CD2	1:z:394:PHE:HD1	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:527:HIS:HB2	1:z:532:ASP:HA	2.01	0.43
1:7:317:LEU:HD13	1:7:679:VAL:CG1	2.49	0.43
1:A:249:LEU:HD22	1:A:649:ILE:HD12	2.01	0.43
1:A:474:GLN:C	1:G:519:ASN:HD22	2.27	0.43
1:B:702:THR:HG21	1:I:700:GLN:O	2.19	0.43
1:C:277:TYR:CE2	1:C:394:PHE:HD1	2.37	0.43
1:C:437:ASN:HB2	1:2:355:VAL:CG1	2.49	0.43
1:D:261:SER:HB3	1:D:275:PHE:HD1	1.83	0.43
1:D:496:ASN:O	1:P:459:GLN:NE2	2.52	0.43
1:E:247:TRP:O	1:E:676:THR:HG23	2.18	0.43
1:E:496:ASN:O	1:F:459:GLN:NE2	2.52	0.43
1:G:459:GLN:NE2	1:I:496:ASN:O	2.52	0.43
1:G:527:HIS:HB2	1:G:532:ASP:HA	2.01	0.43
1:H:277:TYR:CE2	1:H:394:PHE:HD1	2.37	0.43
1:K:342:VAL:HA	1:K:651:ASN:HA	2.00	0.43
1:O:437:ASN:HB2	1:g:355:VAL:CG1	2.49	0.43
1:O:496:ASN:O	1:h:459:GLN:NE2	2.52	0.43
1:P:222:GLY:O	1:Q:406:ARG:HB2	2.19	0.43
1:P:306:TRP:CZ2	1:P:692:SER:HB2	2.52	0.43
1:S:459:GLN:NE2	1:U:496:ASN:O	2.52	0.43
1:S:566:ILE:HD11	1:S:608:GLN:O	2.19	0.43
1:T:361:GLU:HG3	1:T:362:GLY:N	2.30	0.43
1:T:402:SER:O	1:c:228:TRP:HB3	2.18	0.43
1:T:459:GLN:NE2	1:4:496:ASN:O	2.52	0.43
1:T:566:ILE:HD11	1:T:608:GLN:O	2.19	0.43
1:U:427:ALA:O	1:U:733:THR:HA	2.17	0.43
1:X:277:TYR:CE2	1:X:394:PHE:HD1	2.37	0.43
1:X:377:TYR:CD2	1:X:397:LEU:HD21	2.53	0.43
1:Y:317:LEU:HD13	1:Y:679:VAL:CG1	2.49	0.43
1:Y:405:LEU:HB2	1:Y:409:ASN:HB2	2.00	0.43
1:Y:527:HIS:HB2	1:Y:532:ASP:HA	2.01	0.43
1:1:247:TRP:O	1:1:676:THR:HG23	2.18	0.43
1:1:700:GLN:O	1:w:702:THR:HG21	2.19	0.43
1:2:566:ILE:HD11	1:2:608:GLN:O	2.19	0.43
1:3:309:ARG:O	1:3:686:GLU:N	2.42	0.43
1:3:406:ARG:HB2	1:m:222:GLY:O	2.19	0.43
1:3:527:HIS:HB2	1:3:532:ASP:HA	2.01	0.43
1:6:247:TRP:O	1:6:676:THR:HG23	2.18	0.43
1:6:277:TYR:CE2	1:6:394:PHE:HD1	2.37	0.43
1:6:437:ASN:HB2	1:b:355:VAL:CG1	2.49	0.43
1:a:306:TRP:CZ2	1:a:692:SER:HB2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:427:ALA:O	1:a:733:THR:HA	2.17	0.43
1:d:261:SER:HB3	1:d:275:PHE:HD1	1.83	0.43
1:d:420:VAL:HB	1:d:421:PRO:HD2	1.99	0.43
1:e:277:TYR:CE2	1:e:394:PHE:HD1	2.37	0.43
1:f:277:TYR:CE2	1:f:394:PHE:HD1	2.37	0.43
1:g:459:GLN:NE2	1:h:496:ASN:O	2.51	0.43
1:h:377:TYR:CD2	1:h:397:LEU:HD21	2.53	0.43
1:i:228:TRP:HB3	1:7:402:SER:O	2.18	0.43
1:i:442:GLN:HA	1:j:360:HIS:HA	1.99	0.43
1:i:702:THR:HG21	1:z:700:GLN:O	2.19	0.43
1:k:277:TYR:CE2	1:k:394:PHE:HD1	2.37	0.43
1:l:459:GLN:NE2	1:m:496:ASN:O	2.52	0.43
1:m:317:LEU:HD13	1:m:679:VAL:CG1	2.49	0.43
1:m:405:LEU:HB2	1:m:409:ASN:HB2	2.00	0.43
1:m:527:HIS:HB2	1:m:532:ASP:HA	2.01	0.43
1:o:228:TRP:HB3	1:v:402:SER:O	2.18	0.43
1:o:288:ARG:HH21	1:o:615:GLN:HB3	1.84	0.43
1:o:406:ARG:HB2	1:y:222:GLY:O	2.19	0.43
1:o:420:VAL:HB	1:o:421:PRO:HD2	1.99	0.43
1:p:298:TRP:CG	1:p:614:LEU:HD12	2.53	0.43
1:p:317:LEU:HD13	1:p:679:VAL:CG1	2.49	0.43
1:q:249:LEU:HD22	1:q:649:ILE:HD12	2.01	0.43
1:r:427:ALA:O	1:r:733:THR:HA	2.17	0.43
1:r:442:GLN:HA	1:s:360:HIS:HA	1.99	0.43
1:s:277:TYR:CE2	1:s:394:PHE:HD1	2.37	0.43
1:t:406:ARG:HB2	1:x:222:GLY:O	2.19	0.43
1:t:459:GLN:NE2	1:u:496:ASN:O	2.52	0.43
1:u:437:ASN:HB2	1:v:355:VAL:CG1	2.49	0.43
1:v:615:GLN:N	1:v:615:GLN:OE1	2.50	0.43
1:w:306:TRP:CZ2	1:w:692:SER:HB2	2.52	0.43
1:x:315:PHE:CE2	1:x:647:ILE:HD13	2.53	0.43
1:x:317:LEU:HD13	1:x:679:VAL:HG12	2.00	0.43
1:x:377:TYR:CD2	1:x:397:LEU:HD21	2.53	0.43
1:y:405:LEU:HB2	1:y:409:ASN:HB2	2.00	0.43
1:7:702:THR:HG21	1:8:700:GLN:O	2.19	0.43
1:A:315:PHE:CE2	1:A:647:ILE:HD13	2.53	0.43
1:B:274:TYR:HB2	1:B:380:LEU:HD22	2.01	0.43
1:B:317:LEU:HD13	1:B:679:VAL:CG1	2.49	0.43
1:B:342:VAL:HA	1:B:651:ASN:HA	2.00	0.43
1:B:700:GLN:O	1:I:702:THR:HG21	2.18	0.43
1:C:700:GLN:O	1:L:702:THR:HG21	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:306:TRP:CZ2	1:D:692:SER:HB2	2.52	0.43
1:D:427:ALA:O	1:D:733:THR:HA	2.17	0.43
1:E:277:TYR:CE2	1:E:394:PHE:HD1	2.37	0.43
1:E:317:LEU:HD13	1:E:679:VAL:CG1	2.49	0.43
1:E:360:HIS:HA	1:F:442:GLN:HA	1.99	0.43
1:F:222:GLY:O	1:G:406:ARG:HB2	2.19	0.43
1:F:288:ARG:HH21	1:F:615:GLN:HB3	1.84	0.43
1:H:288:ARG:HH21	1:H:615:GLN:HB3	1.84	0.43
1:K:249:LEU:HD22	1:K:649:ILE:HD12	2.01	0.43
1:K:306:TRP:CZ2	1:K:692:SER:HB2	2.52	0.43
1:L:247:TRP:O	1:L:676:THR:HG23	2.18	0.43
1:N:377:TYR:CD2	1:N:397:LEU:HD21	2.53	0.43
1:Q:228:TRP:HB3	1:S:402:SER:O	2.18	0.43
1:R:277:TYR:CE2	1:R:394:PHE:HD1	2.37	0.43
1:R:405:LEU:HB2	1:R:409:ASN:HB2	2.00	0.43
1:S:317:LEU:HD13	1:S:679:VAL:CG1	2.49	0.43
1:T:317:LEU:HD13	1:T:679:VAL:CG1	2.49	0.43
1:V:406:ARG:HB2	1:W:222:GLY:O	2.19	0.43
1:V:496:ASN:O	1:X:459:GLN:NE2	2.52	0.43
1:W:249:LEU:HD22	1:W:649:ILE:HD12	2.01	0.43
1:W:459:GLN:NE2	1:Y:496:ASN:O	2.52	0.43
1:W:527:HIS:HB2	1:W:532:ASP:HA	2.01	0.43
1:X:355:VAL:CG1	1:5:437:ASN:HB2	2.49	0.43
1:Y:222:GLY:O	1:x:406:ARG:HB2	2.19	0.43
1:Z:277:TYR:CE2	1:Z:394:PHE:HD1	2.37	0.43
1:Z:360:HIS:HA	1:w:442:GLN:HA	1.99	0.43
1:1:277:TYR:CD2	1:1:394:PHE:HD1	2.35	0.43
1:3:377:TYR:CD2	1:3:397:LEU:HD21	2.53	0.43
1:5:702:THR:HG21	1:6:700:GLN:O	2.19	0.43
1:6:377:TYR:CD2	1:6:397:LEU:HD21	2.53	0.43
1:6:496:ASN:O	1:a:459:GLN:NE2	2.52	0.43
1:b:222:GLY:O	1:c:406:ARG:HB2	2.19	0.43
1:c:420:VAL:HB	1:c:421:PRO:HD2	1.99	0.43
1:d:222:GLY:O	1:r:406:ARG:HB2	2.18	0.43
1:d:288:ARG:HH21	1:d:615:GLN:HB3	1.84	0.43
1:d:442:GLN:HA	1:e:360:HIS:HA	1.99	0.43
1:d:459:GLN:NE2	1:e:496:ASN:O	2.52	0.43
1:e:317:LEU:HD13	1:e:679:VAL:HG12	2.00	0.43
1:f:405:LEU:HB2	1:f:409:ASN:HB2	2.00	0.43
1:g:277:TYR:CE2	1:g:394:PHE:HD1	2.37	0.43
1:h:406:ARG:HB2	1:l:222:GLY:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:527:HIS:HB2	1:i:532:ASP:HA	2.01	0.43
1:j:700:GLN:O	1:m:702:THR:HG21	2.19	0.43
1:k:228:TRP:HB3	1:s:402:SER:O	2.18	0.43
1:l:527:HIS:HB2	1:l:532:ASP:HA	2.01	0.43
1:o:317:LEU:HD13	1:o:679:VAL:HG12	2.00	0.43
1:p:274:TYR:HB2	1:p:380:LEU:HD22	2.01	0.43
1:q:496:ASN:O	1:s:459:GLN:NE2	2.52	0.43
1:s:274:TYR:HB2	1:s:380:LEU:HD22	2.01	0.43
1:s:298:TRP:CG	1:s:614:LEU:HD12	2.53	0.43
1:s:420:VAL:HB	1:s:421:PRO:HD2	1.99	0.43
1:v:566:ILE:HD11	1:v:608:GLN:O	2.19	0.43
1:v:702:THR:HG21	1:x:700:GLN:O	2.19	0.43
1:w:377:TYR:CD2	1:w:397:LEU:HD21	2.53	0.43
1:y:342:VAL:HA	1:y:651:ASN:HA	2.00	0.43
1:z:247:TRP:O	1:z:676:THR:HG23	2.18	0.43
1:7:700:GLN:O	1:8:702:THR:HG21	2.19	0.43
1:A:519:ASN:HD22	1:I:474:GLN:C	2.27	0.43
1:C:247:TRP:O	1:C:676:THR:HG23	2.18	0.43
1:C:274:TYR:HB2	1:C:380:LEU:HD22	2.01	0.43
1:C:406:ARG:HB2	1:D:222:GLY:O	2.19	0.43
1:D:702:THR:HG21	1:M:700:GLN:O	2.19	0.43
1:E:436:MET:HE2	1:E:436:MET:HB2	1.89	0.43
1:E:702:THR:HG21	1:P:700:GLN:O	2.19	0.43
1:G:249:LEU:HD22	1:G:649:ILE:HD12	2.01	0.43
1:G:427:ALA:O	1:G:733:THR:HA	2.17	0.43
1:G:442:GLN:HA	1:I:360:HIS:HA	1.99	0.43
1:G:545:LYS:O	1:G:548:THR:OG1	2.34	0.43
1:H:355:VAL:CG1	1:Y:437:ASN:HB2	2.49	0.43
1:H:474:GLN:C	1:W:519:ASN:HD22	2.27	0.43
1:I:274:TYR:HB2	1:I:380:LEU:HD22	2.01	0.43
1:I:298:TRP:CG	1:I:614:LEU:HD12	2.53	0.43
1:L:377:TYR:CD2	1:L:397:LEU:HD21	2.53	0.43
1:L:420:VAL:HB	1:L:421:PRO:HD2	1.99	0.43
1:L:527:HIS:HB2	1:L:532:ASP:HA	2.01	0.43
1:N:228:TRP:HB3	1:g:402:SER:O	2.19	0.43
1:N:317:LEU:HD13	1:N:679:VAL:CG1	2.48	0.43
1:O:222:GLY:O	1:P:406:ARG:HB2	2.18	0.43
1:O:379:TYR:OH	1:O:395:TYR:N	2.35	0.43
1:O:405:LEU:HB2	1:O:409:ASN:HB2	2.00	0.43
1:O:566:ILE:HD11	1:O:608:GLN:O	2.19	0.43
1:P:377:TYR:CD2	1:P:397:LEU:HD21	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:249:LEU:HD22	1:Q:649:ILE:HD12	2.01	0.43
1:R:662:PHE:CD1	1:V:375:PRO:HA	2.54	0.43
1:V:249:LEU:HD22	1:V:649:ILE:HD12	2.01	0.43
1:V:377:TYR:CD2	1:V:397:LEU:HD21	2.53	0.43
1:X:249:LEU:HD22	1:X:649:ILE:HD12	2.01	0.43
1:X:406:ARG:HB2	1:6:222:GLY:O	2.19	0.43
1:Y:702:THR:HG21	1:Z:700:GLN:O	2.19	0.43
1:2:615:GLN:OE1	1:2:615:GLN:N	2.50	0.43
1:3:317:LEU:HD13	1:3:679:VAL:HG12	2.00	0.43
1:3:566:ILE:HD11	1:3:608:GLN:O	2.19	0.43
1:4:427:ALA:O	1:4:733:THR:HA	2.17	0.43
1:6:459:GLN:NE2	1:b:496:ASN:O	2.51	0.43
1:b:274:TYR:HB2	1:b:380:LEU:HD22	2.01	0.43
1:b:342:VAL:HA	1:b:651:ASN:HA	2.00	0.43
1:b:700:GLN:O	1:e:702:THR:HG21	2.19	0.43
1:c:249:LEU:HD22	1:c:649:ILE:HD12	2.01	0.43
1:d:700:GLN:O	1:q:702:THR:HG21	2.19	0.43
1:e:317:LEU:HD13	1:e:679:VAL:CG1	2.49	0.43
1:f:662:PHE:CD1	1:h:375:PRO:HA	2.54	0.43
1:g:249:LEU:HD22	1:g:649:ILE:HD12	2.01	0.43
1:g:437:ASN:HB2	1:h:355:VAL:CG1	2.49	0.43
1:i:306:TRP:CZ2	1:i:692:SER:HB2	2.52	0.43
1:i:317:LEU:HD13	1:i:679:VAL:HG12	2.00	0.43
1:i:377:TYR:CD2	1:i:397:LEU:HD21	2.53	0.43
1:j:377:TYR:CD2	1:j:397:LEU:HD21	2.53	0.43
1:k:355:VAL:CG1	1:m:437:ASN:HB2	2.49	0.43
1:k:474:GLN:C	1:l:519:ASN:HD22	2.27	0.43
1:l:249:LEU:HD22	1:l:649:ILE:HD12	2.01	0.43
1:o:247:TRP:O	1:o:676:THR:HG23	2.18	0.43
1:o:377:TYR:CD2	1:o:397:LEU:HD21	2.53	0.43
1:o:527:HIS:HB2	1:o:532:ASP:HA	2.01	0.43
1:p:406:ARG:HB2	1:u:222:GLY:O	2.19	0.43
1:p:566:ILE:HD11	1:p:608:GLN:O	2.19	0.43
1:p:700:GLN:O	1:s:702:THR:HG21	2.18	0.43
1:r:277:TYR:CE2	1:r:394:PHE:HD1	2.37	0.43
1:t:519:ASN:HD22	1:v:474:GLN:C	2.27	0.43
1:w:527:HIS:HB2	1:w:532:ASP:HA	2.01	0.43
1:x:527:HIS:HB2	1:x:532:ASP:HA	2.01	0.43
1:y:249:LEU:HD22	1:y:649:ILE:HD12	2.01	0.43
1:7:527:HIS:HB2	1:7:532:ASP:HA	2.01	0.43
1:A:222:GLY:O	1:E:406:ARG:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:VAL:CG1	1:I:437:ASN:HB2	2.49	0.42
1:B:437:ASN:HB2	1:J:355:VAL:CG1	2.49	0.42
1:B:566:ILE:HD11	1:B:608:GLN:O	2.19	0.42
1:D:277:TYR:CE2	1:D:394:PHE:HD1	2.37	0.42
1:E:317:LEU:HD13	1:E:679:VAL:HG12	2.00	0.42
1:E:405:LEU:HB2	1:E:409:ASN:HB2	2.00	0.42
1:F:519:ASN:HD22	1:Q:474:GLN:C	2.27	0.42
1:G:274:TYR:HB2	1:G:380:LEU:HD22	2.01	0.42
1:G:277:TYR:CE2	1:G:394:PHE:HD1	2.37	0.42
1:G:700:GLN:O	1:H:702:THR:HG21	2.19	0.42
1:H:437:ASN:HB2	1:W:355:VAL:CG1	2.49	0.42
1:I:420:VAL:HB	1:I:421:PRO:HD2	1.99	0.42
1:J:317:LEU:HD13	1:J:679:VAL:HG12	2.00	0.42
1:K:355:VAL:CG1	1:8:437:ASN:HB2	2.49	0.42
1:L:375:PRO:HA	1:2:662:PHE:CD1	2.54	0.42
1:P:274:TYR:HB2	1:P:380:LEU:HD22	2.01	0.42
1:P:342:VAL:HA	1:P:651:ASN:HA	2.00	0.42
1:Q:566:ILE:HD11	1:Q:608:GLN:O	2.19	0.42
1:R:377:TYR:CD2	1:R:397:LEU:HD21	2.53	0.42
1:S:228:TRP:HB3	1:4:402:SER:O	2.18	0.42
1:S:274:TYR:HB2	1:S:380:LEU:HD22	2.01	0.42
1:T:222:GLY:O	1:U:406:ARG:HB2	2.18	0.42
1:T:274:TYR:HB2	1:T:380:LEU:HD22	2.01	0.42
1:V:355:VAL:CG1	1:X:437:ASN:HB2	2.49	0.42
1:V:566:ILE:HD11	1:V:608:GLN:O	2.19	0.42
1:W:277:TYR:CE2	1:W:394:PHE:HD1	2.37	0.42
1:X:317:LEU:HD13	1:X:679:VAL:CG1	2.49	0.42
1:Z:566:ILE:HD11	1:Z:608:GLN:O	2.19	0.42
1:2:379:TYR:OH	1:2:395:TYR:N	2.35	0.42
1:2:698:GLU:HG2	1:2:732:LEU:HD23	2.01	0.42
1:4:437:ASN:HB2	1:f:355:VAL:CG1	2.49	0.42
1:5:222:GLY:O	1:b:406:ARG:HB2	2.18	0.42
1:5:288:ARG:HH21	1:5:615:GLN:HB3	1.84	0.42
1:5:405:LEU:HB2	1:5:409:ASN:HB2	2.00	0.42
1:5:566:ILE:HD11	1:5:608:GLN:O	2.19	0.42
1:6:429:SER:HB3	1:6:733:THR:HB	2.02	0.42
1:a:222:GLY:O	1:u:406:ARG:HB2	2.19	0.42
1:a:277:TYR:CE2	1:a:394:PHE:HD1	2.37	0.42
1:f:377:TYR:CD2	1:f:397:LEU:HD21	2.53	0.42
1:g:317:LEU:HD13	1:g:679:VAL:CG1	2.48	0.42
1:g:702:THR:HG21	1:l:700:GLN:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:249:LEU:HD22	1:h:649:ILE:HD12	2.01	0.42
1:h:277:TYR:CE2	1:h:394:PHE:HD1	2.37	0.42
1:h:566:ILE:HD11	1:h:608:GLN:O	2.19	0.42
1:j:566:ILE:HD11	1:j:608:GLN:O	2.19	0.42
1:k:288:ARG:HH21	1:k:615:GLN:HB3	1.84	0.42
1:k:342:VAL:HA	1:k:651:ASN:HA	2.00	0.42
1:k:702:THR:HG21	1:r:700:GLN:O	2.19	0.42
1:l:429:SER:HB3	1:l:733:THR:HB	2.01	0.42
1:m:261:SER:HB3	1:m:275:PHE:HD1	1.83	0.42
1:o:375:PRO:HA	1:v:662:PHE:CD1	2.54	0.42
1:q:315:PHE:CE2	1:q:647:ILE:HD13	2.53	0.42
1:r:249:LEU:HD22	1:r:649:ILE:HD12	2.01	0.42
1:r:274:TYR:HB2	1:r:380:LEU:HD22	2.01	0.42
1:r:279:THR:OG1	1:r:377:TYR:O	2.33	0.42
1:s:342:VAL:HA	1:s:651:ASN:HA	2.00	0.42
1:u:274:TYR:HB2	1:u:380:LEU:HD22	2.01	0.42
1:w:317:LEU:HD13	1:w:679:VAL:HG12	2.00	0.42
1:w:698:GLU:HG2	1:w:732:LEU:HD23	2.01	0.42
1:x:277:TYR:CE2	1:x:394:PHE:HD1	2.37	0.42
1:x:566:ILE:HD11	1:x:608:GLN:O	2.19	0.42
1:y:306:TRP:CZ2	1:y:692:SER:HB2	2.52	0.42
1:y:355:VAL:CG1	1:7:437:ASN:HB2	2.49	0.42
1:z:377:TYR:CD2	1:z:397:LEU:HD21	2.53	0.42
1:z:437:ASN:HB2	1:7:355:VAL:CG1	2.49	0.42
1:8:566:ILE:HD11	1:8:608:GLN:O	2.19	0.42
1:A:402:SER:O	1:B:228:TRP:HB3	2.18	0.42
1:B:496:ASN:O	1:L:459:GLN:NE2	2.51	0.42
1:E:700:GLN:O	1:P:702:THR:HG21	2.19	0.42
1:F:317:LEU:HD13	1:F:679:VAL:CG1	2.49	0.42
1:G:563:GLU:OE2	1:G:613:TYR:OH	2.25	0.42
1:H:228:TRP:HB3	1:I:402:SER:O	2.18	0.42
1:H:342:VAL:HA	1:H:651:ASN:HA	2.00	0.42
1:I:342:VAL:HA	1:I:651:ASN:HA	2.00	0.42
1:J:474:GLN:C	1:L:519:ASN:HD22	2.27	0.42
1:J:719:GLY:HA2	1:1:257:TYR:O	2.19	0.42
1:K:698:GLU:HG2	1:K:732:LEU:HD23	2.01	0.42
1:M:519:ASN:HD22	1:2:474:GLN:C	2.28	0.42
1:M:566:ILE:HD11	1:M:608:GLN:O	2.19	0.42
1:N:429:SER:HB3	1:N:733:THR:HB	2.02	0.42
1:N:566:ILE:HD11	1:N:608:GLN:O	2.19	0.42
1:O:288:ARG:HH21	1:O:615:GLN:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:519:ASN:HD22	1:h:474:GLN:C	2.27	0.42
1:P:288:ARG:HH21	1:P:615:GLN:HB3	1.84	0.42
1:Q:420:VAL:HB	1:Q:421:PRO:HD2	1.99	0.42
1:R:355:VAL:CG1	1:U:437:ASN:HB2	2.49	0.42
1:R:496:ASN:O	1:U:459:GLN:NE2	2.51	0.42
1:R:566:ILE:HD11	1:R:608:GLN:O	2.19	0.42
1:S:700:GLN:O	1:T:702:THR:HG21	2.19	0.42
1:T:437:ASN:HB2	1:4:355:VAL:CG1	2.49	0.42
1:W:405:LEU:HB2	1:W:409:ASN:HB2	2.00	0.42
1:W:429:SER:HB3	1:W:733:THR:HB	2.02	0.42
1:W:700:GLN:O	1:X:702:THR:HG21	2.19	0.42
1:X:274:TYR:HB2	1:X:380:LEU:HD22	2.01	0.42
1:Z:377:TYR:CD2	1:Z:397:LEU:HD21	2.53	0.42
1:Z:615:GLN:OE1	1:Z:615:GLN:N	2.50	0.42
1:1:377:TYR:CD2	1:1:397:LEU:HD21	2.53	0.42
1:1:437:ASN:HB2	1:8:355:VAL:CG1	2.49	0.42
1:3:277:TYR:CE2	1:3:394:PHE:HD1	2.37	0.42
1:3:306:TRP:CZ2	1:3:692:SER:HB2	2.52	0.42
1:4:288:ARG:HH21	1:4:615:GLN:HB3	1.84	0.42
1:a:249:LEU:HD22	1:a:649:ILE:HD12	2.01	0.42
1:b:247:TRP:O	1:b:676:THR:HG23	2.18	0.42
1:b:317:LEU:HD13	1:b:679:VAL:CG1	2.48	0.42
1:c:474:GLN:C	1:d:519:ASN:HD22	2.27	0.42
1:c:566:ILE:HD11	1:c:608:GLN:O	2.19	0.42
1:d:317:LEU:HD13	1:d:679:VAL:CG1	2.49	0.42
1:d:702:THR:HG21	1:q:700:GLN:O	2.19	0.42
1:e:698:GLU:HG2	1:e:732:LEU:HD23	2.02	0.42
1:f:566:ILE:HD11	1:f:608:GLN:O	2.19	0.42
1:g:274:TYR:HB2	1:g:380:LEU:HD22	2.01	0.42
1:g:527:HIS:HB2	1:g:532:ASP:HA	2.01	0.42
1:i:698:GLU:HG2	1:i:732:LEU:HD23	2.01	0.42
1:j:451:ILE:HG22	1:j:453:GLY:N	2.32	0.42
1:k:437:ASN:HB2	1:l:355:VAL:CG1	2.49	0.42
1:l:277:TYR:CE2	1:l:394:PHE:HD1	2.37	0.42
1:n:317:LEU:HD13	1:n:679:VAL:HG12	2.00	0.42
1:n:702:THR:HG21	1:y:700:GLN:O	2.19	0.42
1:p:228:TRP:HB3	1:q:402:SER:O	2.18	0.42
1:q:698:GLU:HG2	1:q:732:LEU:HD23	2.01	0.42
1:r:545:LYS:O	1:r:548:THR:OG1	2.34	0.42
1:r:563:GLU:OE2	1:r:613:TYR:OH	2.25	0.42
1:t:274:TYR:HB2	1:t:380:LEU:HD22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:429:SER:HB3	1:t:733:THR:HB	2.02	0.42
1:u:317:LEU:HD13	1:u:679:VAL:CG1	2.49	0.42
1:w:249:LEU:HD22	1:w:649:ILE:HD12	2.01	0.42
1:w:429:SER:HB3	1:w:733:THR:HB	2.01	0.42
1:y:277:TYR:CE2	1:y:394:PHE:HD1	2.37	0.42
1:y:698:GLU:HG2	1:y:732:LEU:HD23	2.01	0.42
1:7:274:TYR:HB2	1:7:380:LEU:HD22	2.01	0.42
1:7:566:ILE:HD11	1:7:608:GLN:O	2.19	0.42
1:8:274:TYR:HB2	1:8:380:LEU:HD22	2.01	0.42
1:8:527:HIS:HB2	1:8:532:ASP:HA	2.01	0.42
1:A:406:ARG:HB2	1:B:222:GLY:O	2.18	0.42
1:A:698:GLU:HG2	1:A:732:LEU:HD23	2.02	0.42
1:B:406:ARG:HB2	1:C:222:GLY:O	2.19	0.42
1:D:249:LEU:HD22	1:D:649:ILE:HD12	2.01	0.42
1:D:405:LEU:HD12	1:D:405:LEU:O	2.20	0.42
1:E:342:VAL:HA	1:E:651:ASN:HA	2.00	0.42
1:E:429:SER:HB3	1:E:733:THR:HB	2.02	0.42
1:E:698:GLU:HG2	1:E:732:LEU:HD23	2.02	0.42
1:I:698:GLU:HG2	1:I:732:LEU:HD23	2.02	0.42
1:J:566:ILE:HD11	1:J:608:GLN:O	2.19	0.42
1:K:274:TYR:HB2	1:K:380:LEU:HD22	2.01	0.42
1:L:249:LEU:HD22	1:L:649:ILE:HD12	2.01	0.42
1:M:274:TYR:HB2	1:M:380:LEU:HD22	2.01	0.42
1:M:405:LEU:HB2	1:M:409:ASN:HB2	2.00	0.42
1:M:429:SER:HB3	1:M:733:THR:HB	2.02	0.42
1:M:698:GLU:HG2	1:M:732:LEU:HD23	2.01	0.42
1:N:261:SER:HB3	1:N:275:PHE:HD1	1.83	0.42
1:O:542:ILE:HD12	1:O:560:ILE:HG12	2.02	0.42
1:O:719:GLY:HA2	1:P:257:TYR:O	2.19	0.42
1:P:429:SER:HB3	1:P:733:THR:HB	2.02	0.42
1:S:222:GLY:O	1:4:406:ARG:HB2	2.18	0.42
1:S:437:ASN:HB2	1:U:355:VAL:CG1	2.49	0.42
1:S:702:THR:HG21	1:T:700:GLN:O	2.19	0.42
1:T:228:TRP:HB3	1:U:402:SER:O	2.18	0.42
1:U:247:TRP:O	1:U:676:THR:HG23	2.18	0.42
1:U:288:ARG:HH21	1:U:615:GLN:HB3	1.84	0.42
1:V:277:TYR:CE2	1:V:394:PHE:HD1	2.37	0.42
1:X:257:TYR:O	1:6:719:GLY:HA2	2.20	0.42
1:X:405:LEU:O	1:X:405:LEU:HD12	2.20	0.42
1:X:527:HIS:HB2	1:X:532:ASP:HA	2.01	0.42
1:Y:261:SER:HB3	1:Y:275:PHE:HD1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:719:GLY:HA2	1:x:257:TYR:O	2.20	0.42
1:Z:451:ILE:HG22	1:Z:453:GLY:N	2.32	0.42
1:1:288:ARG:HH21	1:1:615:GLN:HB3	1.84	0.42
1:1:702:THR:HG21	1:w:700:GLN:O	2.19	0.42
1:2:288:ARG:HH21	1:2:615:GLN:HB3	1.84	0.42
1:2:429:SER:HB3	1:2:733:THR:HB	2.02	0.42
1:3:249:LEU:HD22	1:3:649:ILE:HD12	2.01	0.42
1:3:257:TYR:O	1:m:719:GLY:HA2	2.20	0.42
1:5:405:LEU:O	1:5:405:LEU:HD12	2.20	0.42
1:6:317:LEU:HD13	1:6:679:VAL:CG1	2.49	0.42
1:6:566:ILE:HD11	1:6:608:GLN:O	2.19	0.42
1:a:247:TRP:O	1:a:676:THR:HG23	2.18	0.42
1:a:288:ARG:HH21	1:a:615:GLN:HB3	1.84	0.42
1:a:405:LEU:HD12	1:a:405:LEU:O	2.20	0.42
1:a:702:THR:HG21	1:t:700:GLN:O	2.19	0.42
1:b:377:TYR:CD2	1:b:397:LEU:HD21	2.53	0.42
1:b:702:THR:HG21	1:e:700:GLN:O	2.19	0.42
1:e:405:LEU:HB2	1:e:409:ASN:HB2	2.00	0.42
1:g:405:LEU:HD12	1:g:405:LEU:O	2.20	0.42
1:i:249:LEU:HD22	1:i:649:ILE:HD12	2.01	0.42
1:i:405:LEU:HD12	1:i:405:LEU:O	2.20	0.42
1:i:429:SER:HB3	1:i:733:THR:HB	2.01	0.42
1:i:700:GLN:O	1:z:702:THR:HG21	2.19	0.42
1:k:527:HIS:HB2	1:k:532:ASP:HA	2.01	0.42
1:l:405:LEU:HB2	1:l:409:ASN:HB2	2.00	0.42
1:n:355:VAL:CG1	1:p:437:ASN:HB2	2.49	0.42
1:n:719:GLY:HA2	1:z:257:TYR:O	2.19	0.42
1:o:459:GLN:NE2	1:p:496:ASN:O	2.51	0.42
1:p:222:GLY:O	1:q:406:ARG:HB2	2.18	0.42
1:p:377:TYR:CD2	1:p:397:LEU:HD21	2.53	0.42
1:p:602:LEU:HB3	1:p:603:PRO:HD2	2.02	0.42
1:q:355:VAL:CG1	1:s:437:ASN:HB2	2.49	0.42
1:r:429:SER:HB3	1:r:733:THR:HB	2.02	0.42
1:s:698:GLU:HG2	1:s:732:LEU:HD23	2.02	0.42
1:t:405:LEU:HB2	1:t:409:ASN:HB2	2.00	0.42
1:t:566:ILE:HD11	1:t:608:GLN:O	2.19	0.42
1:u:247:TRP:O	1:u:676:THR:HG23	2.18	0.42
1:v:429:SER:HB3	1:v:733:THR:HB	2.02	0.42
1:v:698:GLU:HG2	1:v:732:LEU:HD23	2.02	0.42
1:w:317:LEU:HD13	1:w:679:VAL:CG1	2.49	0.42
1:x:249:LEU:HD22	1:x:649:ILE:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:306:TRP:CZ2	1:x:692:SER:HB2	2.52	0.42
1:x:309:ARG:O	1:x:686:GLU:N	2.42	0.42
1:y:274:TYR:HB2	1:y:380:LEU:HD22	2.01	0.42
1:y:288:ARG:HH21	1:y:615:GLN:HB3	1.84	0.42
1:8:545:LYS:O	1:8:548:THR:OG1	2.34	0.42
1:A:257:TYR:O	1:B:719:GLY:HA2	2.20	0.42
1:A:405:LEU:HD12	1:A:405:LEU:O	2.20	0.42
1:A:700:GLN:O	1:F:702:THR:HG21	2.19	0.42
1:A:702:THR:HG21	1:F:700:GLN:O	2.19	0.42
1:B:474:GLN:C	1:J:519:ASN:HD22	2.28	0.42
1:B:698:GLU:HG2	1:B:732:LEU:HD23	2.01	0.42
1:C:317:LEU:HD13	1:C:679:VAL:CG1	2.49	0.42
1:C:602:LEU:HB3	1:C:603:PRO:HD2	2.02	0.42
1:D:247:TRP:O	1:D:676:THR:HG23	2.18	0.42
1:D:542:ILE:HD12	1:D:560:ILE:HG12	2.02	0.42
1:F:406:ARG:HB2	1:R:222:GLY:O	2.19	0.42
1:F:496:ASN:O	1:Q:459:GLN:NE2	2.52	0.42
1:G:288:ARG:HH21	1:G:615:GLN:HB3	1.84	0.42
1:G:429:SER:HB3	1:G:733:THR:HB	2.02	0.42
1:H:527:HIS:HB2	1:H:532:ASP:HA	2.01	0.42
1:J:527:HIS:HB2	1:J:532:ASP:HA	2.01	0.42
1:J:702:THR:HG21	1:K:700:GLN:O	2.19	0.42
1:K:277:TYR:CE2	1:K:394:PHE:HD1	2.37	0.42
1:K:288:ARG:HH21	1:K:615:GLN:HB3	1.84	0.42
1:K:405:LEU:HD12	1:K:405:LEU:O	2.20	0.42
1:M:222:GLY:O	1:N:406:ARG:HB2	2.20	0.42
1:O:405:LEU:HD12	1:O:405:LEU:O	2.20	0.42
1:P:317:LEU:HD13	1:P:679:VAL:CG1	2.49	0.42
1:P:566:ILE:HD11	1:P:608:GLN:O	2.19	0.42
1:R:257:TYR:O	1:V:719:GLY:HA2	2.19	0.42
1:T:249:LEU:HD22	1:T:649:ILE:HD12	2.01	0.42
1:V:474:GLN:C	1:5:519:ASN:HD22	2.27	0.42
1:V:698:GLU:HG2	1:V:732:LEU:HD23	2.01	0.42
1:X:566:ILE:HD11	1:X:608:GLN:O	2.19	0.42
1:Y:249:LEU:HD22	1:Y:649:ILE:HD12	2.01	0.42
1:Y:274:TYR:HB2	1:Y:380:LEU:HD22	2.01	0.42
1:Z:429:SER:HB3	1:Z:733:THR:HB	2.02	0.42
1:Z:519:ASN:HD22	1:w:474:GLN:C	2.27	0.42
1:1:602:LEU:HB3	1:1:603:PRO:HD2	2.02	0.42
1:2:405:LEU:O	1:2:405:LEU:HD12	2.20	0.42
1:4:459:GLN:NE2	1:f:496:ASN:O	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:566:ILE:HD11	1:4:608:GLN:O	2.19	0.42
1:5:379:TYR:OH	1:5:395:TYR:N	2.35	0.42
1:5:542:ILE:HD12	1:5:560:ILE:HG12	2.02	0.42
1:5:719:GLY:HA2	1:b:257:TYR:O	2.20	0.42
1:6:519:ASN:HD22	1:a:474:GLN:C	2.27	0.42
1:a:542:ILE:HD12	1:a:560:ILE:HG12	2.02	0.42
1:b:429:SER:HB3	1:b:733:THR:HB	2.02	0.42
1:b:566:ILE:HD11	1:b:608:GLN:O	2.19	0.42
1:c:429:SER:HB3	1:c:733:THR:HB	2.01	0.42
1:c:527:HIS:HB2	1:c:532:ASP:HA	2.01	0.42
1:d:274:TYR:HB2	1:d:380:LEU:HD22	2.01	0.42
1:d:406:ARG:HB2	1:f:222:GLY:O	2.19	0.42
1:e:342:VAL:HA	1:e:651:ASN:HA	2.00	0.42
1:e:429:SER:HB3	1:e:733:THR:HB	2.02	0.42
1:i:459:GLN:NE2	1:j:496:ASN:O	2.52	0.42
1:j:429:SER:HB3	1:j:733:THR:HB	2.02	0.42
1:j:527:HIS:HB2	1:j:532:ASP:HA	2.01	0.42
1:j:615:GLN:OE1	1:j:615:GLN:N	2.50	0.42
1:k:519:ASN:HD22	1:m:474:GLN:C	2.27	0.42
1:l:405:LEU:HD12	1:l:405:LEU:O	2.20	0.42
1:m:249:LEU:HD22	1:m:649:ILE:HD12	2.01	0.42
1:m:274:TYR:HB2	1:m:380:LEU:HD22	2.01	0.42
1:m:698:GLU:HG2	1:m:732:LEU:HD23	2.01	0.42
1:n:257:TYR:O	1:s:719:GLY:HA2	2.20	0.42
1:n:527:HIS:HB2	1:n:532:ASP:HA	2.01	0.42
1:n:566:ILE:HD11	1:n:608:GLN:O	2.19	0.42
1:o:249:LEU:HD22	1:o:649:ILE:HD12	2.01	0.42
1:o:277:TYR:CE2	1:o:394:PHE:HD1	2.37	0.42
1:p:288:ARG:HH21	1:p:615:GLN:HB3	1.84	0.42
1:p:698:GLU:HG2	1:p:732:LEU:HD23	2.01	0.42
1:s:249:LEU:HD22	1:s:649:ILE:HD12	2.01	0.42
1:t:698:GLU:HG2	1:t:732:LEU:HD23	2.02	0.42
1:v:405:LEU:HD12	1:v:405:LEU:O	2.20	0.42
1:v:527:HIS:HB2	1:v:532:ASP:HA	2.01	0.42
1:w:405:LEU:HD12	1:w:405:LEU:O	2.20	0.42
1:x:288:ARG:HH21	1:x:615:GLN:HB3	1.84	0.42
1:y:405:LEU:HD12	1:y:405:LEU:O	2.20	0.42
1:y:437:ASN:HB2	1:z:355:VAL:CG1	2.49	0.42
1:z:288:ARG:HH21	1:z:615:GLN:HB3	1.84	0.42
1:B:288:ARG:HH21	1:B:615:GLN:HB3	1.84	0.42
1:B:377:TYR:CD2	1:B:397:LEU:HD21	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:379:TYR:OH	1:B:395:TYR:N	2.35	0.42
1:B:602:LEU:HB3	1:B:603:PRO:HD2	2.02	0.42
1:C:257:TYR:O	1:D:719:GLY:HA2	2.20	0.42
1:C:342:VAL:HA	1:C:651:ASN:HA	2.00	0.42
1:D:288:ARG:HH21	1:D:615:GLN:HB3	1.84	0.42
1:D:442:GLN:HA	1:N:360:HIS:HA	2.00	0.42
1:E:405:LEU:O	1:E:405:LEU:HD12	2.20	0.42
1:E:527:HIS:HB2	1:E:532:ASP:HA	2.01	0.42
1:E:566:ILE:HD11	1:E:608:GLN:O	2.19	0.42
1:F:274:TYR:HB2	1:F:380:LEU:HD22	2.01	0.42
1:F:355:VAL:CG1	1:Q:437:ASN:HB2	2.50	0.42
1:G:474:GLN:C	1:I:519:ASN:HD22	2.27	0.42
1:G:702:THR:HG21	1:H:700:GLN:O	2.19	0.42
1:H:222:GLY:O	1:I:406:ARG:HB2	2.18	0.42
1:H:519:ASN:HD22	1:Y:474:GLN:C	2.27	0.42
1:I:249:LEU:HD22	1:I:649:ILE:HD12	2.01	0.42
1:I:719:GLY:HA2	1:J:257:TYR:O	2.20	0.42
1:J:249:LEU:HD22	1:J:649:ILE:HD12	2.01	0.42
1:K:437:ASN:HB2	1:1:355:VAL:CG1	2.49	0.42
1:K:521:GLY:O	1:K:522:PRO:C	2.63	0.42
1:L:277:TYR:CE2	1:L:394:PHE:HD1	2.37	0.42
1:L:405:LEU:HD12	1:L:405:LEU:O	2.20	0.42
1:O:375:PRO:HA	1:P:662:PHE:CD1	2.54	0.42
1:P:247:TRP:O	1:P:676:THR:HG23	2.18	0.42
1:Q:429:SER:HB3	1:Q:733:THR:HB	2.01	0.42
1:Q:527:HIS:HB2	1:Q:532:ASP:HA	2.01	0.42
1:R:509:TRP:CD1	1:R:518:MET:SD	3.13	0.42
1:R:527:HIS:HB2	1:R:532:ASP:HA	2.01	0.42
1:S:249:LEU:HD22	1:S:649:ILE:HD12	2.01	0.42
1:U:542:ILE:HD12	1:U:560:ILE:HG12	2.02	0.42
1:U:566:ILE:HD11	1:U:608:GLN:O	2.19	0.42
1:V:521:GLY:O	1:V:522:PRO:C	2.63	0.42
1:W:405:LEU:HD12	1:W:405:LEU:O	2.20	0.42
1:X:719:GLY:HA2	1:Y:257:TYR:O	2.20	0.42
1:Y:405:LEU:HD12	1:Y:405:LEU:O	2.20	0.42
1:Z:288:ARG:HH21	1:Z:615:GLN:HB3	1.84	0.42
1:Z:496:ASN:O	1:w:459:GLN:NE2	2.52	0.42
1:2:527:HIS:HB2	1:2:532:ASP:HA	2.01	0.42
1:4:247:TRP:O	1:4:676:THR:HG23	2.18	0.42
1:4:542:ILE:HD12	1:4:560:ILE:HG12	2.02	0.42
1:b:288:ARG:HH21	1:b:615:GLN:HB3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:274:TYR:HB2	1:c:380:LEU:HD22	2.01	0.42
1:c:459:GLN:NE2	1:d:496:ASN:O	2.52	0.42
1:c:496:ASN:O	1:e:459:GLN:NE2	2.52	0.42
1:e:350:TYR:OH	1:e:643:PRO:O	2.22	0.42
1:e:405:LEU:HD12	1:e:405:LEU:O	2.20	0.42
1:e:436:MET:HE2	1:e:436:MET:HB2	1.89	0.42
1:e:527:HIS:HB2	1:e:532:ASP:HA	2.01	0.42
1:e:566:ILE:HD11	1:e:608:GLN:O	2.19	0.42
1:f:257:TYR:O	1:h:719:GLY:HA2	2.19	0.42
1:f:527:HIS:HB2	1:f:532:ASP:HA	2.01	0.42
1:f:542:ILE:HD12	1:f:560:ILE:HG12	2.02	0.42
1:g:566:ILE:HD11	1:g:608:GLN:O	2.19	0.42
1:i:222:GLY:O	1:7:406:ARG:HB2	2.18	0.42
1:i:317:LEU:HD13	1:i:679:VAL:CG1	2.49	0.42
1:i:379:TYR:OH	1:i:395:TYR:N	2.35	0.42
1:i:474:GLN:C	1:j:519:ASN:HD22	2.27	0.42
1:i:566:ILE:HD11	1:i:608:GLN:O	2.19	0.42
1:l:566:ILE:HD11	1:l:608:GLN:O	2.19	0.42
1:m:405:LEU:HD12	1:m:405:LEU:O	2.20	0.42
1:n:247:TRP:O	1:n:676:THR:HG23	2.18	0.42
1:n:249:LEU:HD22	1:n:649:ILE:HD12	2.01	0.42
1:n:474:GLN:C	1:o:519:ASN:HD22	2.27	0.42
1:n:519:ASN:HD22	1:p:474:GLN:C	2.28	0.42
1:p:719:GLY:HA2	1:q:257:TYR:O	2.20	0.42
1:q:405:LEU:HD12	1:q:405:LEU:O	2.20	0.42
1:q:474:GLN:C	1:r:519:ASN:HD22	2.27	0.42
1:q:519:ASN:HD22	1:s:474:GLN:C	2.28	0.42
1:r:288:ARG:HH21	1:r:615:GLN:HB3	1.84	0.42
1:u:342:VAL:HA	1:u:651:ASN:HA	2.00	0.42
1:u:602:LEU:HB3	1:u:603:PRO:HD2	2.02	0.42
1:w:519:ASN:HD22	1:x:474:GLN:C	2.27	0.42
1:x:698:GLU:HG2	1:x:732:LEU:HD23	2.02	0.42
1:y:521:GLY:O	1:y:522:PRO:C	2.63	0.42
1:z:566:ILE:HD11	1:z:608:GLN:O	2.19	0.42
1:z:602:LEU:HB3	1:z:603:PRO:HD2	2.02	0.42
1:7:698:GLU:HG2	1:7:732:LEU:HD23	2.02	0.42
1:A:662:PHE:CD1	1:B:375:PRO:HA	2.54	0.42
1:C:405:LEU:HD12	1:C:405:LEU:O	2.20	0.42
1:C:429:SER:HB3	1:C:733:THR:HB	2.02	0.42
1:E:459:GLN:NE2	1:Q:496:ASN:O	2.52	0.42
1:E:474:GLN:C	1:Q:519:ASN:HD22	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:566:ILE:HD11	1:F:608:GLN:O	2.19	0.42
1:G:566:ILE:HD11	1:G:608:GLN:O	2.19	0.42
1:H:566:ILE:HD11	1:H:608:GLN:O	2.19	0.42
1:H:719:GLY:HA2	1:I:257:TYR:O	2.20	0.42
1:J:247:TRP:O	1:J:676:THR:HG23	2.18	0.42
1:J:602:LEU:HB3	1:J:603:PRO:HD2	2.02	0.42
1:K:662:PHE:CD1	1:7:375:PRO:HA	2.55	0.42
1:N:288:ARG:HH21	1:N:615:GLN:HB3	1.84	0.42
1:O:602:LEU:HB3	1:O:603:PRO:HD2	2.02	0.42
1:Q:274:TYR:HB2	1:Q:380:LEU:HD22	2.01	0.42
1:R:288:ARG:HH21	1:R:615:GLN:HB3	1.84	0.42
1:R:542:ILE:HD12	1:R:560:ILE:HG12	2.02	0.42
1:T:375:PRO:HA	1:U:662:PHE:CD1	2.55	0.42
1:U:429:SER:HB3	1:U:733:THR:HB	2.02	0.42
1:U:719:GLY:HA2	1:5:257:TYR:O	2.20	0.42
1:W:306:TRP:CZ2	1:W:692:SER:HB2	2.52	0.42
1:W:436:MET:HE2	1:W:436:MET:HB2	1.89	0.42
1:Y:566:ILE:HD11	1:Y:608:GLN:O	2.19	0.42
1:Y:698:GLU:HG2	1:Y:732:LEU:HD23	2.02	0.42
1:Z:406:ARG:HB2	1:1:222:GLY:O	2.19	0.42
1:Z:527:HIS:HB2	1:Z:532:ASP:HA	2.01	0.42
1:Z:542:ILE:HD12	1:Z:560:ILE:HG12	2.02	0.42
1:1:566:ILE:HD11	1:1:608:GLN:O	2.19	0.42
1:3:274:TYR:HB2	1:3:380:LEU:HD22	2.01	0.42
1:3:288:ARG:HH21	1:3:615:GLN:HB3	1.84	0.42
1:3:474:GLN:C	1:i:519:ASN:HD22	2.27	0.42
1:3:698:GLU:HG2	1:3:732:LEU:HD23	2.02	0.42
1:4:317:LEU:HD13	1:4:679:VAL:CG1	2.49	0.42
1:5:602:LEU:HB3	1:5:603:PRO:HD2	2.02	0.42
1:6:474:GLN:C	1:b:519:ASN:HD22	2.28	0.42
1:6:662:PHE:CD1	1:t:375:PRO:HA	2.55	0.42
1:6:698:GLU:HG2	1:6:732:LEU:HD23	2.01	0.42
1:a:719:GLY:HA2	1:u:257:TYR:O	2.20	0.42
1:b:277:TYR:CE2	1:b:394:PHE:HD1	2.37	0.42
1:c:437:ASN:HB2	1:d:355:VAL:CG1	2.50	0.42
1:c:519:ASN:HD22	1:e:474:GLN:C	2.27	0.42
1:d:405:LEU:HD12	1:d:405:LEU:O	2.20	0.42
1:e:406:ARG:HB2	1:q:222:GLY:O	2.19	0.42
1:g:288:ARG:HH21	1:g:615:GLN:HB3	1.84	0.42
1:g:719:GLY:HA2	1:m:257:TYR:O	2.20	0.42
1:h:521:GLY:O	1:h:522:PRO:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:698:GLU:HG2	1:h:732:LEU:HD23	2.02	0.42
1:j:542:ILE:HD12	1:j:560:ILE:HG12	2.02	0.42
1:l:306:TRP:CZ2	1:l:692:SER:HB2	2.52	0.42
1:o:405:LEU:HD12	1:o:405:LEU:O	2.20	0.42
1:r:474:GLN:C	1:s:519:ASN:HD22	2.27	0.42
1:r:566:ILE:HD11	1:r:608:GLN:O	2.19	0.42
1:r:602:LEU:HB3	1:r:603:PRO:HD2	2.02	0.42
1:r:698:GLU:HG2	1:r:732:LEU:HD23	2.02	0.42
1:u:429:SER:HB3	1:u:733:THR:HB	2.02	0.42
1:v:288:ARG:HH21	1:v:615:GLN:HB3	1.84	0.42
1:w:566:ILE:HD11	1:w:608:GLN:O	2.19	0.42
1:y:602:LEU:HB3	1:y:603:PRO:HD2	2.02	0.42
1:y:662:PHE:CD1	1:8:375:PRO:HA	2.55	0.42
1:z:459:GLN:NE2	1:7:496:ASN:O	2.52	0.42
1:8:698:GLU:HG2	1:8:732:LEU:HD23	2.02	0.42
1:A:288:ARG:HH21	1:A:615:GLN:HB3	1.84	0.42
1:A:527:HIS:HB2	1:A:532:ASP:HA	2.01	0.42
1:C:519:ASN:HD22	1:M:474:GLN:C	2.27	0.42
1:D:459:GLN:NE2	1:N:496:ASN:O	2.53	0.42
1:D:477:ASN:HA	1:N:634:LEU:HB2	2.01	0.42
1:D:519:ASN:HD22	1:P:474:GLN:C	2.27	0.42
1:F:405:LEU:HD12	1:F:405:LEU:O	2.20	0.42
1:F:542:ILE:HD12	1:F:560:ILE:HG12	2.02	0.42
1:G:261:SER:HB3	1:G:275:PHE:HD1	1.83	0.42
1:G:602:LEU:HB3	1:G:603:PRO:HD2	2.02	0.42
1:G:698:GLU:HG2	1:G:732:LEU:HD23	2.02	0.42
1:H:249:LEU:HD22	1:H:649:ILE:HD12	2.01	0.42
1:H:405:LEU:O	1:H:405:LEU:HD12	2.20	0.42
1:H:429:SER:HB3	1:H:733:THR:HB	2.02	0.42
1:J:437:ASN:HB2	1:L:355:VAL:CG1	2.49	0.42
1:K:602:LEU:HB3	1:K:603:PRO:HD2	2.02	0.42
1:L:405:LEU:HB2	1:L:409:ASN:HB2	2.00	0.42
1:O:257:TYR:O	1:4:719:GLY:HA2	2.20	0.42
1:P:277:TYR:CE2	1:P:394:PHE:HD1	2.37	0.42
1:P:527:HIS:HB2	1:P:532:ASP:HA	2.01	0.42
1:P:602:LEU:HB3	1:P:603:PRO:HD2	2.02	0.42
1:Q:698:GLU:HG2	1:Q:732:LEU:HD23	2.01	0.42
1:S:375:PRO:HA	1:4:662:PHE:CD1	2.55	0.42
1:S:474:GLN:C	1:U:519:ASN:HD22	2.27	0.42
1:T:474:GLN:C	1:4:519:ASN:HD22	2.27	0.42
1:U:274:TYR:HB2	1:U:380:LEU:HD22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:317:LEU:HD13	1:U:679:VAL:CG1	2.49	0.42
1:U:405:LEU:O	1:U:405:LEU:HD12	2.20	0.42
1:U:702:THR:HG21	1:V:700:GLN:O	2.19	0.42
1:V:542:ILE:HD12	1:V:560:ILE:HG12	2.02	0.42
1:W:437:ASN:HB2	1:Y:355:VAL:CG1	2.49	0.42
1:W:566:ILE:HD11	1:W:608:GLN:O	2.19	0.42
1:W:602:LEU:HB3	1:W:603:PRO:HD2	2.02	0.42
1:X:288:ARG:HH21	1:X:615:GLN:HB3	1.84	0.42
1:Z:474:GLN:C	1:x:519:ASN:HD22	2.27	0.42
1:1:459:GLN:NE2	1:8:496:ASN:O	2.52	0.42
1:3:247:TRP:O	1:3:676:THR:HG23	2.18	0.42
1:3:405:LEU:HD12	1:3:405:LEU:O	2.20	0.42
1:4:249:LEU:HD22	1:4:649:ILE:HD12	2.01	0.42
1:4:274:TYR:HB2	1:4:380:LEU:HD22	2.01	0.42
1:4:429:SER:HB3	1:4:733:THR:HB	2.02	0.42
1:5:375:PRO:HA	1:b:662:PHE:CD1	2.54	0.42
1:a:519:ASN:HD22	1:b:474:GLN:C	2.27	0.42
1:b:405:LEU:HD12	1:b:405:LEU:O	2.20	0.42
1:b:602:LEU:HB3	1:b:603:PRO:HD2	2.02	0.42
1:b:719:GLY:HA2	1:c:257:TYR:O	2.20	0.42
1:c:698:GLU:HG2	1:c:732:LEU:HD23	2.01	0.42
1:d:566:ILE:HD11	1:d:608:GLN:O	2.19	0.42
1:e:602:LEU:HB3	1:e:603:PRO:HD2	2.02	0.42
1:h:405:LEU:O	1:h:405:LEU:HD12	2.20	0.42
1:h:542:ILE:HD12	1:h:560:ILE:HG12	2.02	0.42
1:i:509:TRP:CD1	1:i:518:MET:SD	3.13	0.42
1:j:288:ARG:HH21	1:j:615:GLN:HB3	1.84	0.42
1:j:375:PRO:HA	1:k:662:PHE:CD1	2.55	0.42
1:j:406:ARG:HB2	1:z:222:GLY:O	2.19	0.42
1:k:249:LEU:HD22	1:k:649:ILE:HD12	2.01	0.42
1:k:405:LEU:O	1:k:405:LEU:HD12	2.20	0.42
1:k:429:SER:HB3	1:k:733:THR:HB	2.02	0.42
1:k:566:ILE:HD11	1:k:608:GLN:O	2.19	0.42
1:k:700:GLN:O	1:r:702:THR:HG21	2.19	0.42
1:k:719:GLY:HA2	1:s:257:TYR:O	2.20	0.42
1:l:602:LEU:HB3	1:l:603:PRO:HD2	2.02	0.42
1:m:566:ILE:HD11	1:m:608:GLN:O	2.19	0.42
1:m:602:LEU:HB3	1:m:603:PRO:HD2	2.02	0.42
1:n:437:ASN:HB2	1:o:355:VAL:CG1	2.49	0.42
1:n:602:LEU:HB3	1:n:603:PRO:HD2	2.02	0.42
1:n:698:GLU:HG2	1:n:732:LEU:HD23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:698:GLU:HG2	1:o:732:LEU:HD23	2.02	0.42
1:q:429:SER:HB3	1:q:733:THR:HB	2.02	0.42
1:s:429:SER:HB3	1:s:733:THR:HB	2.01	0.42
1:t:355:VAL:CG1	1:v:437:ASN:HB2	2.49	0.42
1:t:437:ASN:HB2	1:u:355:VAL:CG1	2.49	0.42
1:u:405:LEU:HD12	1:u:405:LEU:O	2.20	0.42
1:u:698:GLU:HG2	1:u:732:LEU:HD23	2.01	0.42
1:w:222:GLY:O	1:8:406:ARG:HB2	2.18	0.42
1:w:509:TRP:CD1	1:w:518:MET:SD	3.13	0.42
1:x:247:TRP:O	1:x:676:THR:HG23	2.18	0.42
1:x:274:TYR:HB2	1:x:380:LEU:HD22	2.01	0.42
1:z:405:LEU:HD12	1:z:405:LEU:O	2.20	0.42
1:8:602:LEU:HB3	1:8:603:PRO:HD2	2.02	0.42
1:B:405:LEU:HD12	1:B:405:LEU:O	2.20	0.42
1:B:509:TRP:CD1	1:B:518:MET:SD	3.13	0.42
1:C:355:VAL:CG1	1:M:437:ASN:HB2	2.49	0.42
1:D:662:PHE:CD1	1:E:375:PRO:HA	2.55	0.42
1:E:602:LEU:HB3	1:E:603:PRO:HD2	2.02	0.42
1:G:436:MET:HE2	1:G:436:MET:HB2	1.89	0.42
1:H:542:ILE:HD12	1:H:560:ILE:HG12	2.02	0.42
1:H:662:PHE:CD1	1:Z:375:PRO:HA	2.55	0.42
1:I:429:SER:HB3	1:I:733:THR:HB	2.02	0.42
1:I:566:ILE:HD11	1:I:608:GLN:O	2.19	0.42
1:J:698:GLU:HG2	1:J:732:LEU:HD23	2.02	0.42
1:K:474:GLN:C	1:1:519:ASN:HD22	2.28	0.42
1:M:355:VAL:CG1	1:2:437:ASN:HB2	2.49	0.42
1:M:509:TRP:CD1	1:M:518:MET:SD	3.13	0.42
1:M:602:LEU:HB3	1:M:603:PRO:HD2	2.02	0.42
1:N:698:GLU:HG2	1:N:732:LEU:HD23	2.02	0.42
1:O:355:VAL:CG1	1:h:437:ASN:HB2	2.49	0.42
1:P:405:LEU:O	1:P:405:LEU:HD12	2.20	0.42
1:P:698:GLU:HG2	1:P:732:LEU:HD23	2.01	0.42
1:P:719:GLY:HA2	1:Q:257:TYR:O	2.20	0.42
1:R:521:GLY:O	1:R:522:PRO:C	2.63	0.42
1:S:429:SER:HB3	1:S:733:THR:HB	2.02	0.42
1:T:429:SER:HB3	1:T:733:THR:HB	2.02	0.42
1:U:249:LEU:HD22	1:U:649:ILE:HD12	2.01	0.42
1:V:477:ASN:HA	1:5:634:LEU:HB2	2.02	0.42
1:X:342:VAL:HA	1:X:651:ASN:HA	2.00	0.42
1:Y:602:LEU:HB3	1:Y:603:PRO:HD2	2.02	0.42
1:Z:509:TRP:CD1	1:Z:518:MET:SD	3.13	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:405:LEU:HD12	1:1:405:LEU:O	2.20	0.42
1:3:519:ASN:HD22	1:j:474:GLN:C	2.27	0.42
1:4:405:LEU:HD12	1:4:405:LEU:O	2.20	0.42
1:a:355:VAL:CG1	1:b:437:ASN:HB2	2.49	0.42
1:a:662:PHE:CD1	1:e:375:PRO:HA	2.55	0.42
1:b:527:HIS:HB2	1:b:532:ASP:HA	2.01	0.42
1:d:437:ASN:HB2	1:e:355:VAL:CG1	2.50	0.42
1:d:542:ILE:HD12	1:d:560:ILE:HG12	2.02	0.42
1:e:274:TYR:HB2	1:e:380:LEU:HD22	2.01	0.42
1:f:288:ARG:HH21	1:f:615:GLN:HB3	1.84	0.42
1:f:405:LEU:HD12	1:f:405:LEU:O	2.20	0.42
1:f:429:SER:HB3	1:f:733:THR:HB	2.02	0.42
1:g:342:VAL:HA	1:g:651:ASN:HA	2.00	0.42
1:j:509:TRP:CD1	1:j:518:MET:SD	3.13	0.42
1:k:542:ILE:HD12	1:k:560:ILE:HG12	2.02	0.42
1:l:437:ASN:HB2	1:m:355:VAL:CG1	2.49	0.42
1:o:379:TYR:OH	1:o:395:TYR:N	2.35	0.42
1:o:700:GLN:O	1:u:702:THR:HG21	2.19	0.42
1:p:429:SER:HB3	1:p:733:THR:HB	2.02	0.42
1:p:509:TRP:CD1	1:p:518:MET:SD	3.13	0.42
1:q:288:ARG:HH21	1:q:615:GLN:HB3	1.84	0.42
1:q:566:ILE:HD11	1:q:608:GLN:O	2.19	0.42
1:t:509:TRP:CD1	1:t:518:MET:SD	3.13	0.42
1:t:602:LEU:HB3	1:t:603:PRO:HD2	2.02	0.42
1:u:527:HIS:HB2	1:u:532:ASP:HA	2.01	0.42
1:x:405:LEU:HD12	1:x:405:LEU:O	2.20	0.42
1:y:474:GLN:C	1:z:519:ASN:HD22	2.28	0.42
1:7:277:TYR:CE2	1:7:394:PHE:HD1	2.37	0.42
1:7:602:LEU:HB3	1:7:603:PRO:HD2	2.02	0.42
1:8:277:TYR:CE2	1:8:394:PHE:HD1	2.37	0.42
1:8:405:LEU:HD12	1:8:405:LEU:O	2.20	0.42
1:A:429:SER:HB3	1:A:733:THR:HB	2.02	0.42
1:A:436:MET:HE2	1:A:436:MET:HB2	1.89	0.42
1:A:566:ILE:HD11	1:A:608:GLN:O	2.19	0.42
1:B:355:VAL:CG1	1:L:437:ASN:HB2	2.49	0.42
1:B:519:ASN:HD22	1:L:474:GLN:C	2.27	0.42
1:C:698:GLU:HG2	1:C:732:LEU:HD23	2.02	0.42
1:C:702:THR:HG21	1:L:700:GLN:O	2.19	0.42
1:D:355:VAL:CG1	1:P:437:ASN:HB2	2.49	0.42
1:E:274:TYR:HB2	1:E:380:LEU:HD22	2.01	0.42
1:E:355:VAL:CG1	1:F:437:ASN:HB2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:437:ASN:HB2	1:Q:355:VAL:CG1	2.50	0.42
1:E:519:ASN:HD22	1:F:474:GLN:C	2.27	0.42
1:E:542:ILE:HD12	1:E:560:ILE:HG12	2.02	0.42
1:F:257:TYR:O	1:R:719:GLY:HA2	2.20	0.42
1:G:375:PRO:HA	1:W:662:PHE:CD1	2.55	0.42
1:H:698:GLU:HG2	1:H:732:LEU:HD23	2.02	0.42
1:J:274:TYR:HB2	1:J:380:LEU:HD22	2.01	0.42
1:J:375:PRO:HA	1:1:662:PHE:CD1	2.54	0.42
1:J:429:SER:HB3	1:J:733:THR:HB	2.01	0.42
1:J:542:ILE:HD12	1:J:560:ILE:HG12	2.02	0.42
1:L:698:GLU:HG2	1:L:732:LEU:HD23	2.02	0.42
1:M:375:PRO:HA	1:N:662:PHE:CD1	2.55	0.42
1:M:542:ILE:HD12	1:M:560:ILE:HG12	2.02	0.42
1:P:521:GLY:O	1:P:522:PRO:C	2.63	0.42
1:Q:702:THR:HG21	1:R:700:GLN:O	2.19	0.42
1:R:405:LEU:HD12	1:R:405:LEU:O	2.20	0.42
1:U:325:VAL:HG21	1:5:657:ASP:HB3	2.02	0.42
1:V:288:ARG:HH21	1:V:615:GLN:HB3	1.84	0.42
1:V:437:ASN:HB2	1:5:355:VAL:CG1	2.49	0.42
1:X:375:PRO:HA	1:Y:662:PHE:CD1	2.55	0.42
1:Z:437:ASN:HB2	1:x:355:VAL:CG1	2.50	0.42
1:Z:545:LYS:O	1:Z:548:THR:OG1	2.34	0.42
1:Z:662:PHE:CD1	1:1:375:PRO:HA	2.55	0.42
1:2:719:GLY:HA2	1:i:257:TYR:O	2.20	0.42
1:3:355:VAL:CG1	1:j:437:ASN:HB2	2.50	0.42
1:3:429:SER:HB3	1:3:733:THR:HB	2.01	0.42
1:3:662:PHE:CD1	1:m:375:PRO:HA	2.55	0.42
1:4:702:THR:HG21	1:h:700:GLN:O	2.19	0.42
1:5:429:SER:HB3	1:5:733:THR:HB	2.02	0.42
1:6:288:ARG:HH21	1:6:615:GLN:HB3	1.84	0.42
1:6:527:HIS:HB2	1:6:532:ASP:HA	2.01	0.42
1:d:474:GLN:C	1:e:519:ASN:HD22	2.27	0.42
1:e:257:TYR:O	1:q:719:GLY:HA2	2.20	0.42
1:f:306:TRP:CZ2	1:f:692:SER:HB2	2.52	0.42
1:f:521:GLY:O	1:f:522:PRO:C	2.63	0.42
1:g:375:PRO:HA	1:m:662:PHE:CD1	2.55	0.42
1:h:288:ARG:HH21	1:h:615:GLN:HB3	1.84	0.42
1:i:274:TYR:HB2	1:i:380:LEU:HD22	2.01	0.42
1:i:719:GLY:HA2	1:7:257:TYR:O	2.20	0.42
1:j:662:PHE:CD1	1:z:375:PRO:HA	2.55	0.42
1:k:222:GLY:O	1:s:406:ARG:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:375:PRO:HA	1:z:662:PHE:CD1	2.54	0.42
1:n:542:ILE:HD12	1:n:560:ILE:HG12	2.02	0.42
1:o:405:LEU:HB2	1:o:409:ASN:HB2	2.00	0.42
1:p:405:LEU:O	1:p:405:LEU:HD12	2.20	0.42
1:q:527:HIS:HB2	1:q:532:ASP:HA	2.01	0.42
1:t:474:GLN:C	1:u:519:ASN:HD22	2.27	0.42
1:t:542:ILE:HD12	1:t:560:ILE:HG12	2.02	0.42
1:v:719:GLY:HA2	1:w:257:TYR:O	2.20	0.42
1:w:274:TYR:HB2	1:w:380:LEU:HD22	2.01	0.42
1:w:375:PRO:HA	1:8:662:PHE:CD1	2.55	0.42
1:w:719:GLY:HA2	1:8:257:TYR:O	2.20	0.42
1:x:429:SER:HB3	1:x:733:THR:HB	2.02	0.42
1:y:429:SER:HB3	1:y:733:THR:HB	2.02	0.42
1:7:405:LEU:HD12	1:7:405:LEU:O	2.20	0.42
1:8:542:ILE:HD12	1:8:560:ILE:HG12	2.02	0.42
1:B:429:SER:HB3	1:B:733:THR:HB	2.02	0.42
1:C:527:HIS:HB2	1:C:532:ASP:HA	2.01	0.42
1:D:274:TYR:HB2	1:D:380:LEU:HD22	2.01	0.42
1:D:521:GLY:O	1:D:522:PRO:C	2.63	0.42
1:G:437:ASN:HB2	1:I:355:VAL:CG1	2.49	0.42
1:H:477:ASN:HA	1:W:634:LEU:HB2	2.02	0.42
1:I:545:LYS:O	1:I:548:THR:OG1	2.34	0.42
1:K:429:SER:HB3	1:K:733:THR:HB	2.02	0.42
1:K:519:ASN:HD22	1:8:474:GLN:C	2.27	0.42
1:L:542:ILE:HD12	1:L:560:ILE:HG12	2.02	0.42
1:N:527:HIS:HB2	1:N:532:ASP:HA	2.01	0.42
1:O:274:TYR:HB2	1:O:380:LEU:HD22	2.01	0.42
1:O:429:SER:HB3	1:O:733:THR:HB	2.02	0.42
1:O:634:LEU:HB2	1:h:477:ASN:HA	2.02	0.42
1:O:657:ASP:HB3	1:4:325:VAL:HG21	2.02	0.42
1:Q:521:GLY:O	1:Q:522:PRO:C	2.63	0.42
1:R:429:SER:HB3	1:R:733:THR:HB	2.02	0.42
1:R:437:ASN:HB2	1:S:355:VAL:CG1	2.49	0.42
1:S:309:ARG:O	1:S:686:GLU:N	2.42	0.42
1:S:405:LEU:HD12	1:S:405:LEU:O	2.20	0.42
1:T:405:LEU:HD12	1:T:405:LEU:O	2.20	0.42
1:T:698:GLU:HG2	1:T:732:LEU:HD23	2.02	0.42
1:V:405:LEU:HD12	1:V:405:LEU:O	2.20	0.42
1:V:662:PHE:CD1	1:W:375:PRO:HA	2.55	0.42
1:X:602:LEU:HB3	1:X:603:PRO:HD2	2.02	0.42
1:Y:375:PRO:HA	1:x:662:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:405:LEU:HD12	1:Z:405:LEU:O	2.20	0.42
1:2:222:GLY:O	1:i:406:ARG:HB2	2.19	0.42
1:2:342:VAL:HA	1:2:651:ASN:HA	2.00	0.42
1:3:437:ASN:HB2	1:i:355:VAL:CG1	2.50	0.42
1:3:521:GLY:O	1:3:522:PRO:C	2.63	0.42
1:a:700:GLN:O	1:t:702:THR:HG21	2.19	0.42
1:b:521:GLY:O	1:b:522:PRO:C	2.63	0.42
1:b:698:GLU:HG2	1:b:732:LEU:HD23	2.02	0.42
1:c:355:VAL:CG1	1:e:437:ASN:HB2	2.50	0.42
1:c:702:THR:HG21	1:f:700:GLN:O	2.19	0.42
1:e:249:LEU:HD22	1:e:649:ILE:HD12	2.01	0.42
1:e:542:ILE:HD12	1:e:560:ILE:HG12	2.02	0.42
1:e:662:PHE:CD1	1:q:375:PRO:HA	2.55	0.42
1:h:662:PHE:CD1	1:l:375:PRO:HA	2.55	0.42
1:i:375:PRO:HA	1:7:662:PHE:CD1	2.55	0.42
1:j:405:LEU:HD12	1:j:405:LEU:O	2.20	0.42
1:j:545:LYS:O	1:j:548:THR:OG1	2.34	0.42
1:j:702:THR:HG21	1:m:700:GLN:O	2.19	0.42
1:k:698:GLU:HG2	1:k:732:LEU:HD23	2.02	0.42
1:l:662:PHE:CD1	1:r:375:PRO:HA	2.55	0.42
1:n:274:TYR:HB2	1:n:380:LEU:HD22	2.01	0.42
1:o:719:GLY:HA2	1:v:257:TYR:O	2.20	0.42
1:p:379:TYR:OH	1:p:395:TYR:N	2.35	0.42
1:r:437:ASN:HB2	1:s:355:VAL:CG1	2.49	0.42
1:v:342:VAL:HA	1:v:651:ASN:HA	2.00	0.42
1:w:355:VAL:CG1	1:x:437:ASN:HB2	2.50	0.42
1:w:379:TYR:OH	1:w:395:TYR:N	2.35	0.42
1:w:521:GLY:O	1:w:522:PRO:C	2.63	0.42
1:x:542:ILE:HD12	1:x:560:ILE:HG12	2.02	0.42
1:y:257:TYR:O	1:8:719:GLY:HA2	2.20	0.42
1:y:519:ASN:HD22	1:7:474:GLN:C	2.27	0.42
1:z:542:ILE:HD12	1:z:560:ILE:HG12	2.02	0.42
1:7:542:ILE:HD12	1:7:560:ILE:HG12	2.02	0.42
1:A:274:TYR:HB2	1:A:380:LEU:HD22	2.01	0.41
1:A:375:PRO:HA	1:E:662:PHE:CD1	2.55	0.41
1:B:257:TYR:O	1:C:719:GLY:HA2	2.20	0.41
1:C:288:ARG:HH21	1:C:615:GLN:HB3	1.84	0.41
1:D:700:GLN:O	1:M:702:THR:HG21	2.19	0.41
1:E:249:LEU:HD22	1:E:649:ILE:HD12	2.01	0.41
1:E:288:ARG:HH21	1:E:615:GLN:HB3	1.84	0.41
1:F:325:VAL:HG21	1:G:657:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:542:ILE:HD12	1:G:560:ILE:HG12	2.02	0.41
1:H:284:PHE:CE1	1:H:679:VAL:HG11	2.55	0.41
1:H:402:SER:O	1:Z:228:TRP:HB3	2.18	0.41
1:I:375:PRO:HA	1:J:662:PHE:CD1	2.55	0.41
1:L:379:TYR:OH	1:L:395:TYR:N	2.35	0.41
1:L:521:GLY:O	1:L:522:PRO:C	2.63	0.41
1:M:249:LEU:HD22	1:M:649:ILE:HD12	2.01	0.41
1:N:405:LEU:HD12	1:N:405:LEU:O	2.20	0.41
1:N:602:LEU:HB3	1:N:603:PRO:HD2	2.02	0.41
1:O:698:GLU:HG2	1:O:732:LEU:HD23	2.02	0.41
1:P:542:ILE:HD12	1:P:560:ILE:HG12	2.02	0.41
1:R:274:TYR:HB2	1:R:380:LEU:HD22	2.01	0.41
1:R:306:TRP:CZ2	1:R:692:SER:HB2	2.52	0.41
1:R:519:ASN:HD22	1:U:474:GLN:C	2.28	0.41
1:S:698:GLU:HG2	1:S:732:LEU:HD23	2.02	0.41
1:T:284:PHE:CE1	1:T:679:VAL:HG11	2.55	0.41
1:U:284:PHE:CE1	1:U:679:VAL:HG11	2.55	0.41
1:W:509:TRP:CD1	1:W:518:MET:SD	3.13	0.41
1:W:542:ILE:HD12	1:W:560:ILE:HG12	2.02	0.41
1:X:662:PHE:CD1	1:6:375:PRO:HA	2.55	0.41
1:Y:521:GLY:O	1:Y:522:PRO:C	2.63	0.41
1:1:542:ILE:HD12	1:1:560:ILE:HG12	2.02	0.41
1:3:542:ILE:HD12	1:3:560:ILE:HG12	2.02	0.41
1:4:284:PHE:CE1	1:4:679:VAL:HG11	2.55	0.41
1:5:249:LEU:HD22	1:5:649:ILE:HD12	2.01	0.41
1:5:274:TYR:HB2	1:5:380:LEU:HD22	2.01	0.41
1:5:698:GLU:HG2	1:5:732:LEU:HD23	2.02	0.41
1:6:274:TYR:HB2	1:6:380:LEU:HD22	2.01	0.41
1:6:405:LEU:HD12	1:6:405:LEU:O	2.20	0.41
1:a:274:TYR:HB2	1:a:380:LEU:HD22	2.01	0.41
1:a:521:GLY:O	1:a:522:PRO:C	2.63	0.41
1:b:542:ILE:HD12	1:b:560:ILE:HG12	2.02	0.41
1:d:257:TYR:O	1:f:719:GLY:HA2	2.20	0.41
1:d:325:VAL:HG21	1:r:657:ASP:HB3	2.02	0.41
1:g:602:LEU:HB3	1:g:603:PRO:HD2	2.02	0.41
1:h:274:TYR:HB2	1:h:380:LEU:HD22	2.01	0.41
1:i:521:GLY:O	1:i:522:PRO:C	2.63	0.41
1:j:313:LEU:HD13	1:j:683:ILE:HG13	2.02	0.41
1:l:257:TYR:O	1:r:719:GLY:HA2	2.20	0.41
1:l:274:TYR:HB2	1:l:380:LEU:HD22	2.01	0.41
1:l:438:PRO:HB3	1:m:380:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:509:TRP:CD1	1:l:518:MET:SD	3.13	0.41
1:m:509:TRP:CD1	1:m:518:MET:SD	3.13	0.41
1:n:429:SER:HB3	1:n:733:THR:HB	2.01	0.41
1:n:545:LYS:O	1:n:548:THR:OG1	2.34	0.41
1:n:662:PHE:CD1	1:s:375:PRO:HA	2.55	0.41
1:o:257:TYR:O	1:y:719:GLY:HA2	2.20	0.41
1:o:437:ASN:HB2	1:p:355:VAL:CG1	2.49	0.41
1:o:474:GLN:C	1:p:519:ASN:HD22	2.27	0.41
1:o:521:GLY:O	1:o:522:PRO:C	2.63	0.41
1:o:542:ILE:HD12	1:o:560:ILE:HG12	2.02	0.41
1:p:257:TYR:O	1:u:719:GLY:HA2	2.20	0.41
1:p:375:PRO:HA	1:q:662:PHE:CD1	2.55	0.41
1:p:662:PHE:CD1	1:u:375:PRO:HA	2.55	0.41
1:q:274:TYR:HB2	1:q:380:LEU:HD22	2.01	0.41
1:r:261:SER:HB3	1:r:275:PHE:HD1	1.83	0.41
1:r:509:TRP:CD1	1:r:518:MET:SD	3.13	0.41
1:r:542:ILE:HD12	1:r:560:ILE:HG12	2.02	0.41
1:s:566:ILE:HD11	1:s:608:GLN:O	2.19	0.41
1:t:249:LEU:HD22	1:t:649:ILE:HD12	2.01	0.41
1:u:288:ARG:HH21	1:u:615:GLN:HB3	1.84	0.41
1:w:288:ARG:HH21	1:w:615:GLN:HB3	1.84	0.41
1:w:325:VAL:HG21	1:8:657:ASP:HB3	2.02	0.41
1:A:542:ILE:HD12	1:A:560:ILE:HG12	2.02	0.41
1:A:634:LEU:HB2	1:I:477:ASN:HA	2.02	0.41
1:B:521:GLY:O	1:B:522:PRO:C	2.63	0.41
1:B:662:PHE:CD1	1:C:375:PRO:HA	2.55	0.41
1:G:509:TRP:CD1	1:G:518:MET:SD	3.13	0.41
1:J:284:PHE:CE1	1:J:679:VAL:HG11	2.55	0.41
1:J:313:LEU:HD13	1:J:683:ILE:HG13	2.03	0.41
1:K:257:TYR:O	1:7:719:GLY:HA2	2.20	0.41
1:K:719:GLY:HA2	1:L:257:TYR:O	2.20	0.41
1:L:719:GLY:HA2	1:2:257:TYR:O	2.20	0.41
1:N:702:THR:HG21	1:O:700:GLN:O	2.20	0.41
1:O:249:LEU:HD22	1:O:649:ILE:HD12	2.01	0.41
1:Q:405:LEU:HD12	1:Q:405:LEU:O	2.20	0.41
1:S:284:PHE:CE1	1:S:679:VAL:HG11	2.55	0.41
1:T:355:VAL:CG1	1:f:437:ASN:HB2	2.49	0.41
1:T:634:LEU:HB2	1:f:477:ASN:HA	2.02	0.41
1:V:274:TYR:HB2	1:V:380:LEU:HD22	2.01	0.41
1:V:380:LEU:HD21	1:X:438:PRO:HB3	2.02	0.41
1:X:325:VAL:HG21	1:Y:657:ASP:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:700:GLN:O	1:Z:702:THR:HG21	2.19	0.41
1:Z:313:LEU:HD13	1:Z:683:ILE:HG13	2.02	0.41
1:1:274:TYR:HB2	1:1:380:LEU:HD22	2.01	0.41
1:1:509:TRP:CD1	1:1:518:MET:SD	3.13	0.41
1:3:634:LEU:HB2	1:j:477:ASN:HA	2.02	0.41
1:6:602:LEU:HB3	1:6:603:PRO:HD2	2.02	0.41
1:c:521:GLY:O	1:c:522:PRO:C	2.63	0.41
1:d:719:GLY:HA2	1:r:257:TYR:O	2.20	0.41
1:f:274:TYR:HB2	1:f:380:LEU:HD22	2.01	0.41
1:g:438:PRO:HB3	1:h:380:LEU:HD21	2.02	0.41
1:i:325:VAL:HG21	1:7:657:ASP:HB3	2.02	0.41
1:k:477:ASN:HA	1:l:634:LEU:HB2	2.02	0.41
1:l:436:MET:HE2	1:l:436:MET:HB2	1.89	0.41
1:m:521:GLY:O	1:m:522:PRO:C	2.63	0.41
1:n:313:LEU:HD13	1:n:683:ILE:HG13	2.02	0.41
1:n:477:ASN:HA	1:o:634:LEU:HB2	2.02	0.41
1:o:662:PHE:CD1	1:y:375:PRO:HA	2.55	0.41
1:p:521:GLY:O	1:p:522:PRO:C	2.63	0.41
1:q:436:MET:HE2	1:q:436:MET:HB2	1.89	0.41
1:r:436:MET:HE2	1:r:436:MET:HB2	1.89	0.41
1:s:542:ILE:HD12	1:s:560:ILE:HG12	2.02	0.41
1:u:474:GLN:C	1:v:519:ASN:HD22	2.28	0.41
1:u:566:ILE:HD11	1:u:608:GLN:O	2.19	0.41
1:z:509:TRP:CD1	1:z:518:MET:SD	3.13	0.41
1:A:313:LEU:HD13	1:A:683:ILE:HG13	2.02	0.41
1:B:542:ILE:HD12	1:B:560:ILE:HG12	2.02	0.41
1:C:474:GLN:C	1:2:519:ASN:HD22	2.28	0.41
1:C:566:ILE:HD11	1:C:608:GLN:O	2.19	0.41
1:D:477:ASN:OD1	1:D:477:ASN:N	2.53	0.41
1:E:477:ASN:HA	1:Q:634:LEU:HB2	2.02	0.41
1:E:634:LEU:HB2	1:F:477:ASN:HA	2.02	0.41
1:F:313:LEU:HD13	1:F:683:ILE:HG13	2.02	0.41
1:F:429:SER:HB3	1:F:733:THR:HB	2.02	0.41
1:F:719:GLY:HA2	1:G:257:TYR:O	2.20	0.41
1:G:477:ASN:HA	1:I:634:LEU:HB2	2.02	0.41
1:G:719:GLY:HA2	1:W:257:TYR:O	2.20	0.41
1:I:229:HIS:HD2	1:I:242:THR:HG21	1.86	0.41
1:I:313:LEU:HD13	1:I:683:ILE:HG13	2.02	0.41
1:I:542:ILE:HD12	1:I:560:ILE:HG12	2.02	0.41
1:J:477:ASN:HA	1:L:634:LEU:HB2	2.02	0.41
1:K:375:PRO:HA	1:L:662:PHE:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:566:ILE:HD11	1:K:608:GLN:O	2.19	0.41
1:L:325:VAL:HG21	1:2:657:ASP:HB3	2.02	0.41
1:N:274:TYR:HB2	1:N:380:LEU:HD22	2.01	0.41
1:N:477:ASN:HA	1:P:634:LEU:HB2	2.01	0.41
1:O:474:GLN:C	1:g:519:ASN:HD22	2.27	0.41
1:Q:452:ASN:HB2	1:Q:460:THR:HG23	2.03	0.41
1:R:477:ASN:HA	1:S:634:LEU:HB2	2.02	0.41
1:R:602:LEU:HB3	1:R:603:PRO:HD2	2.02	0.41
1:U:313:LEU:HD13	1:U:683:ILE:HG13	2.02	0.41
1:U:375:PRO:HA	1:5:662:PHE:CD1	2.55	0.41
1:W:274:TYR:HB2	1:W:380:LEU:HD22	2.01	0.41
1:W:438:PRO:HB3	1:Y:380:LEU:HD21	2.02	0.41
1:X:284:PHE:CE1	1:X:679:VAL:HG11	2.55	0.41
1:Y:509:TRP:CD1	1:Y:518:MET:SD	3.13	0.41
1:Z:284:PHE:CE1	1:Z:679:VAL:HG11	2.56	0.41
1:Z:477:ASN:HA	1:x:634:LEU:HB2	2.02	0.41
1:Z:602:LEU:HB3	1:Z:603:PRO:HD2	2.02	0.41
1:1:474:GLN:C	1:8:519:ASN:HD22	2.27	0.41
1:2:700:GLN:O	1:3:702:THR:HG21	2.19	0.41
1:4:313:LEU:HD13	1:4:683:ILE:HG13	2.02	0.41
1:6:229:HIS:HD2	1:6:242:THR:HG21	1.86	0.41
1:b:375:PRO:HA	1:c:662:PHE:CD1	2.55	0.41
1:c:288:ARG:HH21	1:c:615:GLN:HB3	1.84	0.41
1:c:452:ASN:HB2	1:c:460:THR:HG23	2.03	0.41
1:c:634:LEU:HB2	1:e:477:ASN:HA	2.02	0.41
1:d:477:ASN:HA	1:e:634:LEU:HB2	2.02	0.41
1:e:288:ARG:HH21	1:e:615:GLN:HB3	1.84	0.41
1:f:313:LEU:HD13	1:f:683:ILE:HG13	2.02	0.41
1:f:602:LEU:HB3	1:f:603:PRO:HD2	2.02	0.41
1:g:284:PHE:CE1	1:g:679:VAL:HG11	2.55	0.41
1:g:325:VAL:HG21	1:m:657:ASP:HB3	2.02	0.41
1:i:284:PHE:CE1	1:i:679:VAL:HG11	2.56	0.41
1:i:288:ARG:HH21	1:i:615:GLN:HB3	1.84	0.41
1:j:228:TRP:HB3	1:k:402:SER:O	2.18	0.41
1:j:284:PHE:CE1	1:j:679:VAL:HG11	2.56	0.41
1:j:602:LEU:HB3	1:j:603:PRO:HD2	2.02	0.41
1:k:284:PHE:CE1	1:k:679:VAL:HG11	2.56	0.41
1:l:542:ILE:HD12	1:l:560:ILE:HG12	2.02	0.41
1:n:284:PHE:CE1	1:n:679:VAL:HG11	2.56	0.41
1:p:542:ILE:HD12	1:p:560:ILE:HG12	2.02	0.41
1:p:657:ASP:HB3	1:u:325:VAL:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:313:LEU:HD13	1:q:683:ILE:HG13	2.02	0.41
1:q:437:ASN:HB2	1:r:355:VAL:CG1	2.49	0.41
1:q:542:ILE:HD12	1:q:560:ILE:HG12	2.02	0.41
1:t:379:TYR:OH	1:t:395:TYR:N	2.35	0.41
1:v:222:GLY:O	1:w:406:ARG:HB2	2.19	0.41
1:v:274:TYR:HB2	1:v:380:LEU:HD22	2.01	0.41
1:v:521:GLY:O	1:v:522:PRO:C	2.63	0.41
1:w:284:PHE:CE1	1:w:679:VAL:HG11	2.56	0.41
1:y:542:ILE:HD12	1:y:560:ILE:HG12	2.02	0.41
1:y:657:ASP:HB3	1:8:325:VAL:HG21	2.02	0.41
1:z:274:TYR:HB2	1:z:380:LEU:HD22	2.01	0.41
1:8:429:SER:HB3	1:8:733:THR:HB	2.02	0.41
1:B:477:ASN:HA	1:J:634:LEU:HB2	2.02	0.41
1:B:657:ASP:HB3	1:C:325:VAL:HG21	2.03	0.41
1:C:284:PHE:CE1	1:C:679:VAL:HG11	2.55	0.41
1:C:477:ASN:HA	1:2:634:LEU:HB2	2.02	0.41
1:D:509:TRP:CD1	1:D:518:MET:SD	3.13	0.41
1:E:284:PHE:CE1	1:E:679:VAL:HG11	2.56	0.41
1:F:602:LEU:HB3	1:F:603:PRO:HD2	2.02	0.41
1:H:313:LEU:HD13	1:H:683:ILE:HG13	2.02	0.41
1:H:375:PRO:HA	1:I:662:PHE:CD1	2.55	0.41
1:H:602:LEU:HB3	1:H:603:PRO:HD2	2.02	0.41
1:K:284:PHE:CE1	1:K:679:VAL:HG11	2.55	0.41
1:K:542:ILE:HD12	1:K:560:ILE:HG12	2.02	0.41
1:K:657:ASP:HB3	1:7:325:VAL:HG21	2.02	0.41
1:L:452:ASN:HB2	1:L:460:THR:HG23	2.03	0.41
1:M:452:ASN:HB2	1:M:460:THR:HG23	2.03	0.41
1:N:229:HIS:HD2	1:N:242:THR:HG21	1.86	0.41
1:O:662:PHE:CD1	1:4:375:PRO:HA	2.55	0.41
1:P:375:PRO:HA	1:Q:662:PHE:CD1	2.55	0.41
1:Q:288:ARG:HH21	1:Q:615:GLN:HB3	1.84	0.41
1:R:313:LEU:HD13	1:R:683:ILE:HG13	2.02	0.41
1:T:309:ARG:O	1:T:686:GLU:N	2.42	0.41
1:V:602:LEU:HB3	1:V:603:PRO:HD2	2.02	0.41
1:V:657:ASP:HB3	1:W:325:VAL:HG21	2.02	0.41
1:W:284:PHE:CE1	1:W:679:VAL:HG11	2.56	0.41
1:W:698:GLU:HG2	1:W:732:LEU:HD23	2.02	0.41
1:X:519:ASN:HD22	1:5:474:GLN:C	2.27	0.41
1:X:657:ASP:HB3	1:6:325:VAL:HG21	2.03	0.41
1:Y:229:HIS:HD2	1:Y:242:THR:HG21	1.86	0.41
1:Y:313:LEU:HD13	1:Y:683:ILE:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:452:ASN:HB2	1:Y:460:THR:HG23	2.03	0.41
1:Z:257:TYR:O	1:1:719:GLY:HA2	2.20	0.41
1:1:452:ASN:HB2	1:1:460:THR:HG23	2.03	0.41
1:1:521:GLY:O	1:1:522:PRO:C	2.63	0.41
1:1:698:GLU:HG2	1:1:732:LEU:HD23	2.02	0.41
1:4:474:GLN:C	1:f:519:ASN:HD22	2.28	0.41
1:4:477:ASN:OD1	1:4:477:ASN:N	2.53	0.41
1:6:257:TYR:O	1:t:719:GLY:HA2	2.20	0.41
1:a:509:TRP:CD1	1:a:518:MET:SD	3.13	0.41
1:c:405:LEU:HD12	1:c:405:LEU:O	2.20	0.41
1:d:313:LEU:HD13	1:d:683:ILE:HG13	2.02	0.41
1:d:602:LEU:HB3	1:d:603:PRO:HD2	2.02	0.41
1:e:284:PHE:CE1	1:e:679:VAL:HG11	2.56	0.41
1:g:313:LEU:HD13	1:g:683:ILE:HG13	2.02	0.41
1:h:309:ARG:O	1:h:686:GLU:N	2.42	0.41
1:h:602:LEU:HB3	1:h:603:PRO:HD2	2.02	0.41
1:j:257:TYR:O	1:z:719:GLY:HA2	2.20	0.41
1:j:279:THR:OG1	1:j:377:TYR:O	2.33	0.41
1:k:313:LEU:HD13	1:k:683:ILE:HG13	2.02	0.41
1:k:375:PRO:HA	1:s:662:PHE:CD1	2.55	0.41
1:k:602:LEU:HB3	1:k:603:PRO:HD2	2.02	0.41
1:l:284:PHE:CE1	1:l:679:VAL:HG11	2.56	0.41
1:l:698:GLU:HG2	1:l:732:LEU:HD23	2.02	0.41
1:m:452:ASN:HB2	1:m:460:THR:HG23	2.03	0.41
1:n:634:LEU:HB2	1:p:477:ASN:HA	2.02	0.41
1:o:325:VAL:HG21	1:v:657:ASP:HB3	2.02	0.41
1:o:452:ASN:HB2	1:o:460:THR:HG23	2.03	0.41
1:o:602:LEU:HB3	1:o:603:PRO:HD2	2.02	0.41
1:s:229:HIS:HD2	1:s:242:THR:HG21	1.86	0.41
1:t:405:LEU:HD12	1:t:405:LEU:O	2.20	0.41
1:v:229:HIS:HD2	1:v:242:THR:HG21	1.86	0.41
1:v:700:GLN:O	1:x:702:THR:HG21	2.19	0.41
1:y:477:ASN:OD1	1:y:477:ASN:N	2.53	0.41
1:7:284:PHE:CE1	1:7:679:VAL:HG11	2.55	0.41
1:7:429:SER:HB3	1:7:733:THR:HB	2.02	0.41
1:8:284:PHE:CE1	1:8:679:VAL:HG11	2.55	0.41
1:A:229:HIS:HD2	1:A:242:THR:HG21	1.86	0.41
1:A:509:TRP:CD1	1:A:518:MET:SD	3.13	0.41
1:A:719:GLY:HA2	1:E:257:TYR:O	2.20	0.41
1:B:380:LEU:HD21	1:L:438:PRO:HB3	2.03	0.41
1:D:229:HIS:HD2	1:D:242:THR:HG21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:284:PHE:CE1	1:F:679:VAL:HG11	2.56	0.41
1:H:274:TYR:HB2	1:H:380:LEU:HD22	2.01	0.41
1:H:380:LEU:HD21	1:Y:438:PRO:HB3	2.02	0.41
1:I:405:LEU:HD12	1:I:405:LEU:O	2.20	0.41
1:I:602:LEU:HB3	1:I:603:PRO:HD2	2.02	0.41
1:J:545:LYS:O	1:J:548:THR:OG1	2.34	0.41
1:K:477:ASN:OD1	1:K:477:ASN:N	2.53	0.41
1:K:527:HIS:HB2	1:K:532:ASP:HA	2.01	0.41
1:M:306:TRP:CZ2	1:M:692:SER:HB2	2.52	0.41
1:N:284:PHE:CE1	1:N:679:VAL:HG11	2.55	0.41
1:N:719:GLY:HA2	1:g:257:TYR:O	2.21	0.41
1:O:229:HIS:HD2	1:O:242:THR:HG21	1.86	0.41
1:O:477:ASN:HA	1:g:634:LEU:HB2	2.02	0.41
1:Q:509:TRP:CD1	1:Q:518:MET:SD	3.13	0.41
1:S:719:GLY:HA2	1:4:257:TYR:O	2.20	0.41
1:T:602:LEU:HB3	1:T:603:PRO:HD2	2.02	0.41
1:U:477:ASN:OD1	1:U:477:ASN:N	2.53	0.41
1:U:698:GLU:HG2	1:U:732:LEU:HD23	2.01	0.41
1:V:229:HIS:HD2	1:V:242:THR:HG21	1.86	0.41
1:V:257:TYR:O	1:W:719:GLY:HA2	2.20	0.41
1:V:313:LEU:HD13	1:V:683:ILE:HG13	2.02	0.41
1:X:634:LEU:HB2	1:5:477:ASN:HA	2.02	0.41
1:Z:279:THR:OG1	1:Z:377:TYR:O	2.33	0.41
1:1:429:SER:HB3	1:1:733:THR:HB	2.02	0.41
1:2:229:HIS:HD2	1:2:242:THR:HG21	1.86	0.41
1:2:274:TYR:HB2	1:2:380:LEU:HD22	2.01	0.41
1:2:509:TRP:CD1	1:2:518:MET:SD	3.13	0.41
1:2:521:GLY:O	1:2:522:PRO:C	2.63	0.41
1:2:602:LEU:HB3	1:2:603:PRO:HD2	2.02	0.41
1:4:698:GLU:HG2	1:4:732:LEU:HD23	2.01	0.41
1:5:313:LEU:HD13	1:5:683:ILE:HG13	2.02	0.41
1:6:284:PHE:CE1	1:6:679:VAL:HG11	2.55	0.41
1:a:229:HIS:HD2	1:a:242:THR:HG21	1.86	0.41
1:a:325:VAL:HG21	1:u:657:ASP:HB3	2.02	0.41
1:a:477:ASN:OD1	1:a:477:ASN:N	2.53	0.41
1:c:313:LEU:HD13	1:c:683:ILE:HG13	2.03	0.41
1:d:284:PHE:CE1	1:d:679:VAL:HG11	2.56	0.41
1:d:429:SER:HB3	1:d:733:THR:HB	2.02	0.41
1:g:474:GLN:C	1:h:519:ASN:HD22	2.27	0.41
1:g:542:ILE:HD12	1:g:560:ILE:HG12	2.02	0.41
1:h:229:HIS:HD2	1:h:242:THR:HG21	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:657:ASP:HB3	1:l:325:VAL:HG21	2.03	0.41
1:k:274:TYR:HB2	1:k:380:LEU:HD22	2.01	0.41
1:k:380:LEU:HD21	1:m:438:PRO:HB3	2.03	0.41
1:l:474:GLN:C	1:m:519:ASN:HD22	2.28	0.41
1:m:229:HIS:HD2	1:m:242:THR:HG21	1.86	0.41
1:m:313:LEU:HD13	1:m:683:ILE:HG13	2.02	0.41
1:n:405:LEU:HD12	1:n:405:LEU:O	2.20	0.41
1:o:274:TYR:HB2	1:o:380:LEU:HD22	2.01	0.41
1:o:429:SER:HB3	1:o:733:THR:HB	2.02	0.41
1:o:438:PRO:HB3	1:p:380:LEU:HD21	2.03	0.41
1:p:309:ARG:O	1:p:686:GLU:N	2.42	0.41
1:q:634:LEU:HB2	1:s:477:ASN:HA	2.03	0.41
1:r:405:LEU:HD12	1:r:405:LEU:O	2.20	0.41
1:r:477:ASN:HA	1:s:634:LEU:HB2	2.02	0.41
1:s:313:LEU:HD13	1:s:683:ILE:HG13	2.03	0.41
1:s:602:LEU:HB3	1:s:603:PRO:HD2	2.02	0.41
1:t:452:ASN:HB2	1:t:460:THR:HG23	2.03	0.41
1:u:284:PHE:CE1	1:u:679:VAL:HG11	2.55	0.41
1:v:509:TRP:CD1	1:v:518:MET:SD	3.13	0.41
1:w:452:ASN:HB2	1:w:460:THR:HG23	2.03	0.41
1:w:542:ILE:HD12	1:w:560:ILE:HG12	2.02	0.41
1:x:509:TRP:CD1	1:x:518:MET:SD	3.13	0.41
1:y:284:PHE:CE1	1:y:679:VAL:HG11	2.55	0.41
1:y:566:ILE:HD11	1:y:608:GLN:O	2.19	0.41
1:z:452:ASN:HB2	1:z:460:THR:HG23	2.03	0.41
1:z:474:GLN:C	1:7:519:ASN:HD22	2.27	0.41
1:z:477:ASN:HA	1:7:634:LEU:HB2	2.02	0.41
1:7:288:ARG:HH21	1:7:615:GLN:HB3	1.84	0.41
1:8:288:ARG:HH21	1:8:615:GLN:HB3	1.84	0.41
1:C:542:ILE:HD12	1:C:560:ILE:HG12	2.02	0.41
1:C:634:LEU:HB2	1:M:477:ASN:HA	2.02	0.41
1:D:257:TYR:O	1:E:719:GLY:HA2	2.20	0.41
1:D:429:SER:HB3	1:D:733:THR:HB	2.02	0.41
1:F:375:PRO:HA	1:G:662:PHE:CD1	2.55	0.41
1:F:380:LEU:HD21	1:Q:438:PRO:HB3	2.03	0.41
1:H:438:PRO:HB3	1:W:380:LEU:HD21	2.03	0.41
1:H:694:ARG:HH21	1:H:696:ASN:ND2	2.19	0.41
1:J:306:TRP:CZ2	1:J:692:SER:HB2	2.52	0.41
1:J:405:LEU:HD12	1:J:405:LEU:O	2.20	0.41
1:K:229:HIS:HD2	1:K:242:THR:HG21	1.86	0.41
1:L:274:TYR:HB2	1:L:380:LEU:HD22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:429:SER:HB3	1:L:733:THR:HB	2.02	0.41
1:L:509:TRP:CD1	1:L:518:MET:SD	3.13	0.41
1:M:288:ARG:HH21	1:M:615:GLN:HB3	1.84	0.41
1:M:405:LEU:O	1:M:405:LEU:HD12	2.20	0.41
1:M:657:ASP:HB3	1:3:325:VAL:HG21	2.02	0.41
1:O:313:LEU:HD13	1:O:683:ILE:HG13	2.03	0.41
1:Q:313:LEU:HD13	1:Q:683:ILE:HG13	2.03	0.41
1:Q:719:GLY:HA2	1:S:257:TYR:O	2.20	0.41
1:R:380:LEU:HD21	1:U:438:PRO:HB3	2.03	0.41
1:S:436:MET:HE2	1:S:436:MET:HB2	1.89	0.41
1:S:602:LEU:HB3	1:S:603:PRO:HD2	2.02	0.41
1:T:257:TYR:O	1:c:719:GLY:HA2	2.20	0.41
1:T:719:GLY:HA2	1:U:257:TYR:O	2.20	0.41
1:U:521:GLY:O	1:U:522:PRO:C	2.63	0.41
1:V:519:ASN:HD22	1:X:474:GLN:C	2.28	0.41
1:W:229:HIS:HD2	1:W:242:THR:HG21	1.86	0.41
1:W:288:ARG:HH21	1:W:615:GLN:HB3	1.84	0.41
1:X:313:LEU:HD13	1:X:683:ILE:HG13	2.03	0.41
1:X:452:ASN:HB2	1:X:460:THR:HG23	2.03	0.41
1:X:542:ILE:HD12	1:X:560:ILE:HG12	2.02	0.41
1:X:698:GLU:HG2	1:X:732:LEU:HD23	2.01	0.41
1:1:477:ASN:HA	1:8:634:LEU:HB2	2.02	0.41
1:2:306:TRP:CZ2	1:2:692:SER:HB2	2.52	0.41
1:3:509:TRP:CD1	1:3:518:MET:SD	3.13	0.41
1:4:438:PRO:HB3	1:f:380:LEU:HD21	2.03	0.41
1:4:521:GLY:O	1:4:522:PRO:C	2.63	0.41
1:4:602:LEU:HB3	1:4:603:PRO:HD2	2.02	0.41
1:5:229:HIS:HD2	1:5:242:THR:HG21	1.86	0.41
1:6:261:SER:HB3	1:6:275:PHE:HD1	1.83	0.41
1:6:380:LEU:HD21	1:a:438:PRO:HB3	2.03	0.41
1:6:452:ASN:HB2	1:6:460:THR:HG23	2.03	0.41
1:a:257:TYR:O	1:e:719:GLY:HA2	2.20	0.41
1:a:309:ARG:O	1:a:686:GLU:N	2.42	0.41
1:b:313:LEU:HD13	1:b:683:ILE:HG13	2.02	0.41
1:c:438:PRO:HB3	1:d:380:LEU:HD21	2.03	0.41
1:c:509:TRP:CD1	1:c:518:MET:SD	3.13	0.41
1:d:657:ASP:HB3	1:f:325:VAL:HG21	2.03	0.41
1:d:662:PHE:CD1	1:f:375:PRO:HA	2.55	0.41
1:g:452:ASN:HB2	1:g:460:THR:HG23	2.03	0.41
1:g:509:TRP:CD1	1:g:518:MET:SD	3.13	0.41
1:h:313:LEU:HD13	1:h:683:ILE:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:452:ASN:HB2	1:i:460:THR:HG23	2.03	0.41
1:i:542:ILE:HD12	1:i:560:ILE:HG12	2.02	0.41
1:i:718:GLU:OE1	1:i:718:GLU:N	2.51	0.41
1:j:698:GLU:HG2	1:j:732:LEU:HD23	2.01	0.41
1:k:438:PRO:HB3	1:l:380:LEU:HD21	2.03	0.41
1:k:694:ARG:HH21	1:k:696:ASN:ND2	2.19	0.41
1:l:379:TYR:OH	1:l:395:TYR:N	2.36	0.41
1:n:306:TRP:CZ2	1:n:692:SER:HB2	2.52	0.41
1:o:509:TRP:CD1	1:o:518:MET:SD	3.13	0.41
1:q:229:HIS:HD2	1:q:242:THR:HG21	1.86	0.41
1:s:452:ASN:HB2	1:s:460:THR:HG23	2.03	0.41
1:t:306:TRP:CZ2	1:t:692:SER:HB2	2.52	0.41
1:t:313:LEU:HD13	1:t:683:ILE:HG13	2.02	0.41
1:t:662:PHE:CD1	1:x:375:PRO:HA	2.55	0.41
1:u:438:PRO:HB3	1:v:380:LEU:HD21	2.02	0.41
1:u:477:ASN:HA	1:v:634:LEU:HB2	2.03	0.41
1:v:602:LEU:HB3	1:v:603:PRO:HD2	2.02	0.41
1:y:229:HIS:HD2	1:y:242:THR:HG21	1.86	0.41
1:y:527:HIS:HB2	1:y:532:ASP:HA	2.01	0.41
1:z:249:LEU:HD22	1:z:649:ILE:HD12	2.01	0.41
1:z:438:PRO:HB3	1:7:380:LEU:HD21	2.02	0.41
1:z:521:GLY:O	1:z:522:PRO:C	2.63	0.41
1:z:698:GLU:HG2	1:z:732:LEU:HD23	2.02	0.41
1:8:436:MET:HE2	1:8:436:MET:HB2	1.89	0.41
1:8:521:GLY:O	1:8:522:PRO:C	2.63	0.41
1:A:284:PHE:CE1	1:A:679:VAL:HG11	2.56	0.41
1:C:662:PHE:CD1	1:D:375:PRO:HA	2.55	0.41
1:D:284:PHE:CE1	1:D:679:VAL:HG11	2.55	0.41
1:D:309:ARG:O	1:D:686:GLU:N	2.42	0.41
1:F:657:ASP:HB3	1:R:325:VAL:HG21	2.03	0.41
1:F:662:PHE:CD1	1:R:375:PRO:HA	2.55	0.41
1:I:284:PHE:CE1	1:I:679:VAL:HG11	2.55	0.41
1:I:325:VAL:HG21	1:J:657:ASP:HB3	2.02	0.41
1:I:436:MET:HE2	1:I:436:MET:HB2	1.89	0.41
1:I:452:ASN:HB2	1:I:460:THR:HG23	2.03	0.41
1:K:634:LEU:HB2	1:8:477:ASN:HA	2.02	0.41
1:L:566:ILE:HD11	1:L:608:GLN:O	2.19	0.41
1:L:602:LEU:HB3	1:L:603:PRO:HD2	2.02	0.41
1:M:313:LEU:HD13	1:M:683:ILE:HG13	2.03	0.41
1:M:379:TYR:OH	1:M:395:TYR:N	2.35	0.41
1:M:521:GLY:O	1:M:522:PRO:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:452:ASN:HB2	1:N:460:THR:HG23	2.03	0.41
1:P:313:LEU:HD13	1:P:683:ILE:HG13	2.03	0.41
1:Q:325:VAL:HG21	1:S:657:ASP:HB3	2.02	0.41
1:R:438:PRO:HB3	1:S:380:LEU:HD21	2.02	0.41
1:S:306:TRP:CZ2	1:S:692:SER:HB2	2.52	0.41
1:T:657:ASP:HB3	1:c:325:VAL:HG21	2.02	0.41
1:U:602:LEU:HB3	1:U:603:PRO:HD2	2.02	0.41
1:V:306:TRP:CZ2	1:V:692:SER:HB2	2.52	0.41
1:V:309:ARG:O	1:V:686:GLU:N	2.42	0.41
1:W:474:GLN:C	1:Y:519:ASN:HD22	2.28	0.41
1:Z:355:VAL:CG1	1:w:437:ASN:HB2	2.50	0.41
1:Z:698:GLU:HG2	1:Z:732:LEU:HD23	2.01	0.41
1:1:249:LEU:HD22	1:1:649:ILE:HD12	2.01	0.41
1:1:438:PRO:HB3	1:8:380:LEU:HD21	2.02	0.41
1:2:284:PHE:CE1	1:2:679:VAL:HG11	2.56	0.41
1:2:325:VAL:HG21	1:i:657:ASP:HB3	2.03	0.41
1:3:229:HIS:HD2	1:3:242:THR:HG21	1.86	0.41
1:3:438:PRO:HB3	1:i:380:LEU:HD21	2.03	0.41
1:4:694:ARG:HH21	1:4:696:ASN:ND2	2.19	0.41
1:6:355:VAL:CG1	1:a:437:ASN:HB2	2.49	0.41
1:a:634:LEU:HB2	1:b:477:ASN:HA	2.02	0.41
1:a:698:GLU:HG2	1:a:732:LEU:HD23	2.02	0.41
1:c:477:ASN:HA	1:d:634:LEU:HB2	2.02	0.41
1:e:545:LYS:O	1:e:548:THR:OG1	2.34	0.41
1:g:698:GLU:HG2	1:g:732:LEU:HD23	2.01	0.41
1:h:257:TYR:O	1:l:719:GLY:HA2	2.20	0.41
1:i:477:ASN:HA	1:j:634:LEU:HB2	2.02	0.41
1:k:306:TRP:CZ2	1:k:692:SER:HB2	2.52	0.41
1:l:229:HIS:HD2	1:l:242:THR:HG21	1.86	0.41
1:m:284:PHE:CE1	1:m:679:VAL:HG11	2.56	0.41
1:n:521:GLY:O	1:n:522:PRO:C	2.63	0.41
1:p:306:TRP:CZ2	1:p:692:SER:HB2	2.52	0.41
1:q:509:TRP:CD1	1:q:518:MET:SD	3.13	0.41
1:q:602:LEU:HB3	1:q:603:PRO:HD2	2.02	0.41
1:s:284:PHE:CE1	1:s:679:VAL:HG11	2.56	0.41
1:s:405:LEU:O	1:s:405:LEU:HD12	2.20	0.41
1:t:288:ARG:HH21	1:t:615:GLN:HB3	1.84	0.41
1:t:521:GLY:O	1:t:522:PRO:C	2.63	0.41
1:y:380:LEU:HD21	1:7:438:PRO:HB3	2.03	0.41
1:z:429:SER:HB3	1:z:733:THR:HB	2.02	0.41
1:A:437:ASN:HB2	1:G:355:VAL:CG1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:602:LEU:HB3	1:A:603:PRO:HD2	2.02	0.41
1:B:522:PRO:HB2	1:B:524:MET:HE2	2.03	0.41
1:C:657:ASP:HB3	1:D:325:VAL:HG21	2.03	0.41
1:C:694:ARG:HH21	1:C:696:ASN:ND2	2.19	0.41
1:D:566:ILE:HD11	1:D:608:GLN:O	2.19	0.41
1:D:602:LEU:HB3	1:D:603:PRO:HD2	2.02	0.41
1:D:698:GLU:HG2	1:D:732:LEU:HD23	2.02	0.41
1:E:452:ASN:HB2	1:E:460:THR:HG23	2.03	0.41
1:F:521:GLY:O	1:F:522:PRO:C	2.63	0.41
1:F:634:LEU:HB2	1:Q:477:ASN:HA	2.02	0.41
1:G:405:LEU:HD12	1:G:405:LEU:O	2.20	0.41
1:J:521:GLY:O	1:J:522:PRO:C	2.63	0.41
1:K:380:LEU:HD21	1:8:438:PRO:HB3	2.03	0.41
1:K:477:ASN:HA	1:1:634:LEU:HB2	2.02	0.41
1:L:284:PHE:CE1	1:L:679:VAL:HG11	2.55	0.41
1:O:452:ASN:HB2	1:O:460:THR:HG23	2.03	0.41
1:Q:545:LYS:O	1:Q:548:THR:OG1	2.34	0.41
1:T:380:LEU:HD21	1:f:438:PRO:HB3	2.02	0.41
1:T:662:PHE:CD1	1:c:375:PRO:HA	2.55	0.41
1:U:694:ARG:HH21	1:U:696:ASN:ND2	2.19	0.41
1:W:379:TYR:OH	1:W:395:TYR:N	2.36	0.41
1:X:509:TRP:CD1	1:X:518:MET:SD	3.13	0.41
1:Z:634:LEU:HB2	1:w:477:ASN:HA	2.02	0.41
1:1:284:PHE:CE1	1:1:679:VAL:HG11	2.56	0.41
1:5:452:ASN:HB2	1:5:460:THR:HG23	2.03	0.41
1:a:284:PHE:CE1	1:a:679:VAL:HG11	2.55	0.41
1:a:429:SER:HB3	1:a:733:THR:HB	2.02	0.41
1:c:542:ILE:HD12	1:c:560:ILE:HG12	2.02	0.41
1:d:375:PRO:HA	1:r:662:PHE:CD1	2.55	0.41
1:d:438:PRO:HB3	1:e:380:LEU:HD21	2.03	0.41
1:h:306:TRP:CZ2	1:h:692:SER:HB2	2.52	0.41
1:i:437:ASN:HB2	1:j:355:VAL:CG1	2.50	0.41
1:j:452:ASN:HB2	1:j:460:THR:HG23	2.03	0.41
1:l:288:ARG:HH21	1:l:615:GLN:HB3	1.84	0.41
1:l:477:ASN:HA	1:m:634:LEU:HB2	2.03	0.41
1:o:477:ASN:HA	1:p:634:LEU:HB2	2.02	0.41
1:o:566:ILE:HD11	1:o:608:GLN:O	2.19	0.41
1:p:694:ARG:HH21	1:p:696:ASN:ND2	2.19	0.41
1:q:284:PHE:CE1	1:q:679:VAL:HG11	2.56	0.41
1:t:257:TYR:O	1:x:719:GLY:HA2	2.20	0.41
1:t:657:ASP:HB3	1:x:325:VAL:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:542:ILE:HD12	1:u:560:ILE:HG12	2.02	0.41
1:v:284:PHE:CE1	1:v:679:VAL:HG11	2.56	0.41
1:v:306:TRP:CZ2	1:v:692:SER:HB2	2.52	0.41
1:w:380:LEU:HD21	1:x:438:PRO:HB3	2.03	0.41
1:x:229:HIS:HD2	1:x:242:THR:HG21	1.86	0.41
1:y:634:LEU:HB2	1:7:477:ASN:HA	2.02	0.41
1:z:284:PHE:CE1	1:z:679:VAL:HG11	2.56	0.41
1:7:521:GLY:O	1:7:522:PRO:C	2.63	0.41
1:A:325:VAL:HG21	1:E:657:ASP:HB3	2.03	0.41
1:B:286:PHE:CE1	1:B:619:TRP:HH2	2.39	0.41
1:B:306:TRP:CZ2	1:B:692:SER:HB2	2.52	0.41
1:B:634:LEU:HB2	1:L:477:ASN:HA	2.02	0.41
1:B:694:ARG:HH21	1:B:696:ASN:ND2	2.19	0.41
1:C:313:LEU:HD13	1:C:683:ILE:HG13	2.02	0.41
1:C:438:PRO:HB3	1:2:380:LEU:HD21	2.03	0.41
1:D:634:LEU:HB2	1:P:477:ASN:HA	2.03	0.41
1:E:313:LEU:HD13	1:E:683:ILE:HG13	2.03	0.41
1:E:380:LEU:HD21	1:F:438:PRO:HB3	2.03	0.41
1:E:545:LYS:O	1:E:548:THR:OG1	2.34	0.41
1:E:694:ARG:HH21	1:E:696:ASN:ND2	2.19	0.41
1:F:286:PHE:CE1	1:F:619:TRP:HH2	2.39	0.41
1:G:325:VAL:HG21	1:W:657:ASP:HB3	2.03	0.41
1:G:521:GLY:O	1:G:522:PRO:C	2.63	0.41
1:H:306:TRP:CZ2	1:H:692:SER:HB2	2.52	0.41
1:H:325:VAL:HG21	1:I:657:ASP:HB3	2.02	0.41
1:H:452:ASN:HB2	1:H:460:THR:HG23	2.03	0.41
1:H:521:GLY:O	1:H:522:PRO:C	2.63	0.41
1:H:522:PRO:HB2	1:H:524:MET:HE2	2.03	0.41
1:H:634:LEU:HB2	1:Y:477:ASN:HA	2.02	0.41
1:H:657:ASP:HB3	1:Z:325:VAL:HG21	2.03	0.41
1:J:438:PRO:HB3	1:L:380:LEU:HD21	2.02	0.41
1:M:257:TYR:O	1:3:719:GLY:HA2	2.20	0.41
1:M:662:PHE:CD1	1:3:375:PRO:HA	2.55	0.41
1:M:694:ARG:HH21	1:M:696:ASN:ND2	2.19	0.41
1:N:542:ILE:HD12	1:N:560:ILE:HG12	2.02	0.41
1:N:700:GLN:O	1:O:702:THR:HG21	2.21	0.41
1:O:521:GLY:O	1:O:522:PRO:C	2.63	0.41
1:O:694:ARG:HH21	1:O:696:ASN:ND2	2.19	0.41
1:Q:375:PRO:HA	1:S:662:PHE:CD1	2.55	0.41
1:Q:522:PRO:HB2	1:Q:524:MET:HE2	2.03	0.41
1:Q:542:ILE:HD12	1:Q:560:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:284:PHE:CE1	1:R:679:VAL:HG11	2.56	0.41
1:R:522:PRO:HB2	1:R:524:MET:HE2	2.03	0.41
1:S:452:ASN:HB2	1:S:460:THR:HG23	2.03	0.41
1:T:229:HIS:HD2	1:T:242:THR:HG21	1.86	0.41
1:T:306:TRP:CZ2	1:T:692:SER:HB2	2.52	0.41
1:T:452:ASN:HB2	1:T:460:THR:HG23	2.03	0.41
1:T:519:ASN:HD22	1:f:474:GLN:C	2.27	0.41
1:V:429:SER:HB3	1:V:733:THR:HB	2.01	0.41
1:V:509:TRP:CD1	1:V:518:MET:SD	3.13	0.41
1:W:477:ASN:HA	1:Y:634:LEU:HB2	2.03	0.41
1:W:563:GLU:OE2	1:W:613:TYR:OH	2.24	0.41
1:W:694:ARG:HH21	1:W:696:ASN:ND2	2.19	0.41
1:X:229:HIS:HD2	1:X:242:THR:HG21	1.86	0.41
1:Y:284:PHE:CE1	1:Y:679:VAL:HG11	2.56	0.41
1:Y:286:PHE:CE1	1:Y:619:TRP:HH2	2.39	0.41
1:Y:545:LYS:O	1:Y:548:THR:OG1	2.34	0.41
1:Z:274:TYR:HB2	1:Z:380:LEU:HD22	2.01	0.41
1:Z:452:ASN:HB2	1:Z:460:THR:HG23	2.03	0.41
1:Z:521:GLY:O	1:Z:522:PRO:C	2.63	0.41
1:Z:694:ARG:HH21	1:Z:696:ASN:ND2	2.19	0.41
1:3:602:LEU:HB3	1:3:603:PRO:HD2	2.02	0.41
1:6:657:ASP:HB3	1:t:325:VAL:HG21	2.02	0.41
1:a:375:PRO:HA	1:u:662:PHE:CD1	2.55	0.41
1:a:566:ILE:HD11	1:a:608:GLN:O	2.19	0.41
1:a:602:LEU:HB3	1:a:603:PRO:HD2	2.02	0.41
1:a:657:ASP:HB3	1:e:325:VAL:HG21	2.03	0.41
1:c:522:PRO:HB2	1:c:524:MET:HE2	2.03	0.41
1:d:279:THR:OG1	1:d:377:TYR:O	2.33	0.41
1:d:286:PHE:CE1	1:d:619:TRP:HH2	2.39	0.41
1:d:521:GLY:O	1:d:522:PRO:C	2.63	0.41
1:e:313:LEU:HD13	1:e:683:ILE:HG13	2.03	0.41
1:e:452:ASN:HB2	1:e:460:THR:HG23	2.03	0.41
1:e:657:ASP:HB3	1:q:325:VAL:HG21	2.03	0.41
1:e:694:ARG:HH21	1:e:696:ASN:ND2	2.19	0.41
1:f:284:PHE:CE1	1:f:679:VAL:HG11	2.56	0.41
1:f:522:PRO:HB2	1:f:524:MET:HE2	2.03	0.41
1:h:284:PHE:CE1	1:h:679:VAL:HG11	2.56	0.41
1:h:429:SER:HB3	1:h:733:THR:HB	2.01	0.41
1:h:509:TRP:CD1	1:h:518:MET:SD	3.13	0.41
1:h:545:LYS:O	1:h:548:THR:OG1	2.34	0.41
1:j:274:TYR:HB2	1:j:380:LEU:HD22	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:325:VAL:HG21	1:k:657:ASP:HB3	2.02	0.41
1:j:521:GLY:O	1:j:522:PRO:C	2.63	0.41
1:j:694:ARG:HH21	1:j:696:ASN:ND2	2.19	0.41
1:k:379:TYR:OH	1:k:395:TYR:N	2.35	0.41
1:k:452:ASN:HB2	1:k:460:THR:HG23	2.03	0.41
1:k:522:PRO:HB2	1:k:524:MET:HE2	2.03	0.41
1:l:694:ARG:HH21	1:l:696:ASN:ND2	2.19	0.41
1:m:286:PHE:CE1	1:m:619:TRP:HH2	2.39	0.41
1:n:438:PRO:HB3	1:o:380:LEU:HD21	2.02	0.41
1:n:522:PRO:HB2	1:n:524:MET:HE2	2.03	0.41
1:n:657:ASP:HB3	1:s:325:VAL:HG21	2.03	0.41
1:p:522:PRO:HB2	1:p:524:MET:HE2	2.03	0.41
1:q:380:LEU:HD21	1:s:438:PRO:HB3	2.02	0.41
1:r:521:GLY:O	1:r:522:PRO:C	2.63	0.41
1:u:509:TRP:CD1	1:u:518:MET:SD	3.13	0.41
1:u:694:ARG:HH21	1:u:696:ASN:ND2	2.19	0.41
1:v:325:VAL:HG21	1:w:657:ASP:HB3	2.03	0.41
1:w:229:HIS:HD2	1:w:242:THR:HG21	1.86	0.41
1:x:602:LEU:HB3	1:x:603:PRO:HD2	2.02	0.41
1:y:477:ASN:HA	1:z:634:LEU:HB2	2.02	0.41
1:7:229:HIS:HD2	1:7:242:THR:HG21	1.86	0.41
1:7:286:PHE:CE1	1:7:619:TRP:HH2	2.39	0.41
1:7:694:ARG:HH21	1:7:696:ASN:ND2	2.19	0.41
1:8:229:HIS:HD2	1:8:242:THR:HG21	1.86	0.41
1:8:286:PHE:CE1	1:8:619:TRP:HH2	2.39	0.41
1:8:694:ARG:HH21	1:8:696:ASN:ND2	2.19	0.41
1:A:286:PHE:CE1	1:A:619:TRP:HH2	2.39	0.41
1:B:229:HIS:HD2	1:B:242:THR:HG21	1.86	0.41
1:B:438:PRO:HB3	1:J:380:LEU:HD21	2.02	0.41
1:C:229:HIS:HD2	1:C:242:THR:HG21	1.86	0.41
1:C:286:PHE:CE1	1:C:619:TRP:HH2	2.39	0.41
1:D:522:PRO:HB2	1:D:524:MET:HE2	2.03	0.41
1:G:279:THR:OG1	1:G:377:TYR:O	2.32	0.41
1:H:229:HIS:HD2	1:H:242:THR:HG21	1.86	0.41
1:J:522:PRO:HB2	1:J:524:MET:HE2	2.03	0.41
1:K:286:PHE:CE1	1:K:619:TRP:HH2	2.39	0.41
1:O:286:PHE:CE1	1:O:619:TRP:HH2	2.39	0.41
1:O:380:LEU:HD21	1:h:438:PRO:HB3	2.02	0.41
1:R:286:PHE:CE1	1:R:619:TRP:HH2	2.39	0.41
1:S:229:HIS:HD2	1:S:242:THR:HG21	1.86	0.41
1:S:477:ASN:HA	1:U:634:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:452:ASN:HB2	1:U:460:THR:HG23	2.03	0.41
1:V:284:PHE:CE1	1:V:679:VAL:HG11	2.56	0.41
1:V:545:LYS:O	1:V:548:THR:OG1	2.34	0.41
1:X:380:LEU:HD21	1:5:438:PRO:HB3	2.03	0.41
1:X:429:SER:HB3	1:X:733:THR:HB	2.02	0.41
1:Z:380:LEU:HD21	1:w:438:PRO:HB3	2.03	0.41
1:2:522:PRO:HB2	1:2:524:MET:HE2	2.03	0.41
1:4:477:ASN:HA	1:f:634:LEU:HB2	2.02	0.41
1:5:286:PHE:CE1	1:5:619:TRP:HH2	2.39	0.41
1:5:521:GLY:O	1:5:522:PRO:C	2.63	0.41
1:5:694:ARG:HH21	1:5:696:ASN:ND2	2.19	0.41
1:a:522:PRO:HB2	1:a:524:MET:HE2	2.03	0.41
1:f:657:ASP:HB3	1:h:325:VAL:HG21	2.02	0.41
1:g:229:HIS:HD2	1:g:242:THR:HG21	1.86	0.41
1:g:429:SER:HB3	1:g:733:THR:HB	2.02	0.41
1:g:521:GLY:O	1:g:522:PRO:C	2.63	0.41
1:i:229:HIS:HD2	1:i:242:THR:HG21	1.86	0.41
1:i:438:PRO:HB3	1:j:380:LEU:HD21	2.03	0.41
1:j:719:GLY:HA2	1:k:257:TYR:O	2.20	0.41
1:k:229:HIS:HD2	1:k:242:THR:HG21	1.86	0.41
1:k:325:VAL:HG21	1:s:657:ASP:HB3	2.03	0.41
1:k:521:GLY:O	1:k:522:PRO:C	2.63	0.41
1:l:657:ASP:HB3	1:r:325:VAL:HG21	2.03	0.41
1:n:509:TRP:CD1	1:n:518:MET:SD	3.13	0.41
1:o:284:PHE:CE1	1:o:679:VAL:HG11	2.56	0.41
1:p:229:HIS:HD2	1:p:242:THR:HG21	1.86	0.41
1:p:286:PHE:CE1	1:p:619:TRP:HH2	2.39	0.41
1:q:286:PHE:CE1	1:q:619:TRP:HH2	2.39	0.41
1:r:286:PHE:CE1	1:r:619:TRP:HH2	2.39	0.41
1:r:379:TYR:OH	1:r:395:TYR:N	2.35	0.41
1:t:634:LEU:HB2	1:v:477:ASN:HA	2.02	0.41
1:t:694:ARG:HH21	1:t:696:ASN:ND2	2.19	0.41
1:u:313:LEU:HD13	1:u:683:ILE:HG13	2.03	0.41
1:u:522:PRO:HB2	1:u:524:MET:HE2	2.03	0.41
1:7:436:MET:HE2	1:7:436:MET:HB2	1.89	0.41
1:7:509:TRP:CD1	1:7:518:MET:SD	3.13	0.41
1:8:509:TRP:CD1	1:8:518:MET:SD	3.13	0.41
1:A:477:ASN:HA	1:G:634:LEU:HB2	2.02	0.40
1:A:657:ASP:HB3	1:B:325:VAL:HG21	2.02	0.40
1:D:657:ASP:HB3	1:E:325:VAL:HG21	2.03	0.40
1:D:694:ARG:HH21	1:D:696:ASN:ND2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:452:ASN:HB2	1:F:460:THR:HG23	2.03	0.40
1:H:257:TYR:O	1:Z:719:GLY:HA2	2.20	0.40
1:K:313:LEU:HD13	1:K:683:ILE:HG13	2.02	0.40
1:L:286:PHE:CE1	1:L:619:TRP:HH2	2.39	0.40
1:O:438:PRO:HB3	1:g:380:LEU:HD21	2.03	0.40
1:Q:602:LEU:HB3	1:Q:603:PRO:HD2	2.02	0.40
1:R:634:LEU:HB2	1:U:477:ASN:HA	2.02	0.40
1:R:657:ASP:HB3	1:V:325:VAL:HG21	2.02	0.40
1:R:694:ARG:HH21	1:R:696:ASN:ND2	2.19	0.40
1:R:698:GLU:HG2	1:R:732:LEU:HD23	2.02	0.40
1:T:286:PHE:CE1	1:T:619:TRP:HH2	2.39	0.40
1:T:436:MET:HE2	1:T:436:MET:HB2	1.89	0.40
1:T:477:ASN:HA	1:4:634:LEU:HB2	2.02	0.40
1:U:522:PRO:HB2	1:U:524:MET:HE2	2.03	0.40
1:U:718:GLU:OE1	1:U:718:GLU:N	2.51	0.40
1:V:286:PHE:CE1	1:V:619:TRP:HH2	2.39	0.40
1:Z:229:HIS:HD2	1:Z:242:THR:HG21	1.86	0.40
1:2:375:PRO:HA	1:i:662:PHE:CD1	2.55	0.40
1:2:452:ASN:HB2	1:2:460:THR:HG23	2.03	0.40
1:2:694:ARG:HH21	1:2:696:ASN:ND2	2.19	0.40
1:4:452:ASN:HB2	1:4:460:THR:HG23	2.03	0.40
1:6:542:ILE:HD12	1:6:560:ILE:HG12	2.02	0.40
1:a:694:ARG:HH21	1:a:696:ASN:ND2	2.19	0.40
1:c:545:LYS:O	1:c:548:THR:OG1	2.34	0.40
1:c:602:LEU:HB3	1:c:603:PRO:HD2	2.02	0.40
1:d:452:ASN:HB2	1:d:460:THR:HG23	2.03	0.40
1:f:286:PHE:CE1	1:f:619:TRP:HH2	2.39	0.40
1:f:698:GLU:HG2	1:f:732:LEU:HD23	2.02	0.40
1:g:545:LYS:O	1:g:548:THR:OG1	2.34	0.40
1:i:602:LEU:HB3	1:i:603:PRO:HD2	2.02	0.40
1:k:634:LEU:HB2	1:m:477:ASN:HA	2.02	0.40
1:l:563:GLU:OE2	1:l:613:TYR:OH	2.25	0.40
1:m:545:LYS:O	1:m:548:THR:OG1	2.34	0.40
1:n:380:LEU:HD21	1:p:438:PRO:HB3	2.02	0.40
1:o:657:ASP:HB3	1:y:325:VAL:HG21	2.02	0.40
1:q:452:ASN:HB2	1:q:460:THR:HG23	2.03	0.40
1:s:545:LYS:O	1:s:548:THR:OG1	2.34	0.40
1:t:477:ASN:HA	1:u:634:LEU:HB2	2.02	0.40
1:u:229:HIS:HD2	1:u:242:THR:HG21	1.86	0.40
1:u:286:PHE:CE1	1:u:619:TRP:HH2	2.39	0.40
1:u:452:ASN:HB2	1:u:460:THR:HG23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:375:PRO:HA	1:w:662:PHE:CD1	2.55	0.40
1:v:694:ARG:HH21	1:v:696:ASN:ND2	2.19	0.40
1:y:286:PHE:CE1	1:y:619:TRP:HH2	2.39	0.40
1:y:313:LEU:HD13	1:y:683:ILE:HG13	2.02	0.40
1:A:522:PRO:HB2	1:A:524:MET:HE2	2.03	0.40
1:C:452:ASN:HB2	1:C:460:THR:HG23	2.03	0.40
1:C:509:TRP:CD1	1:C:518:MET:SD	3.13	0.40
1:C:522:PRO:HB2	1:C:524:MET:HE2	2.03	0.40
1:E:438:PRO:HB3	1:Q:380:LEU:HD21	2.03	0.40
1:F:229:HIS:HD2	1:F:242:THR:HG21	1.86	0.40
1:F:698:GLU:HG2	1:F:732:LEU:HD23	2.01	0.40
1:G:286:PHE:CE1	1:G:619:TRP:HH2	2.39	0.40
1:G:438:PRO:HB3	1:I:380:LEU:HD21	2.03	0.40
1:H:379:TYR:OH	1:H:395:TYR:N	2.36	0.40
1:J:509:TRP:CD1	1:J:518:MET:SD	3.13	0.40
1:K:343:GLN:HA	1:K:404:MET:HA	2.04	0.40
1:M:634:LEU:HB2	1:2:477:ASN:HA	2.02	0.40
1:O:284:PHE:CE1	1:O:679:VAL:HG11	2.56	0.40
1:R:474:GLN:C	1:S:519:ASN:HD22	2.27	0.40
1:S:286:PHE:CE1	1:S:619:TRP:HH2	2.39	0.40
1:S:438:PRO:HB3	1:U:380:LEU:HD21	2.03	0.40
1:S:522:PRO:HB2	1:S:524:MET:HE2	2.03	0.40
1:T:438:PRO:HB3	1:4:380:LEU:HD21	2.03	0.40
1:V:522:PRO:HB2	1:V:524:MET:HE2	2.03	0.40
1:Z:718:GLU:OE1	1:Z:718:GLU:N	2.51	0.40
1:3:313:LEU:HD13	1:3:683:ILE:HG13	2.03	0.40
1:c:380:LEU:HD21	1:e:438:PRO:HB3	2.03	0.40
1:h:286:PHE:CE1	1:h:619:TRP:HH2	2.39	0.40
1:h:522:PRO:HB2	1:h:524:MET:HE2	2.03	0.40
1:i:286:PHE:CE1	1:i:619:TRP:HH2	2.39	0.40
1:i:694:ARG:HH21	1:i:696:ASN:ND2	2.19	0.40
1:j:229:HIS:HD2	1:j:242:THR:HG21	1.86	0.40
1:j:563:GLU:OE2	1:j:613:TYR:OH	2.25	0.40
1:j:718:GLU:OE1	1:j:718:GLU:N	2.51	0.40
1:o:286:PHE:CE1	1:o:619:TRP:HH2	2.39	0.40
1:q:477:ASN:HA	1:r:634:LEU:HB2	2.02	0.40
1:r:522:PRO:HB2	1:r:524:MET:HE2	2.03	0.40
1:v:313:LEU:HD13	1:v:683:ILE:HG13	2.02	0.40
1:v:522:PRO:HB2	1:v:524:MET:HE2	2.03	0.40
1:w:602:LEU:HB3	1:w:603:PRO:HD2	2.02	0.40
1:x:284:PHE:CE1	1:x:679:VAL:HG11	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:313:LEU:HD13	1:x:683:ILE:HG13	2.03	0.40
1:y:343:GLN:HA	1:y:404:MET:HA	2.04	0.40
1:7:452:ASN:HB2	1:7:460:THR:HG23	2.03	0.40
1:8:522:PRO:HB2	1:8:524:MET:HE2	2.03	0.40
1:A:343:GLN:HA	1:A:404:MET:HA	2.04	0.40
1:A:452:ASN:HB2	1:A:460:THR:HG23	2.03	0.40
1:D:437:ASN:HB2	1:N:355:VAL:CG1	2.50	0.40
1:E:229:HIS:HD2	1:E:242:THR:HG21	1.86	0.40
1:E:509:TRP:CD1	1:E:518:MET:SD	3.13	0.40
1:G:284:PHE:CE1	1:G:679:VAL:HG11	2.56	0.40
1:G:379:TYR:OH	1:G:395:TYR:N	2.35	0.40
1:G:522:PRO:HB2	1:G:524:MET:HE2	2.03	0.40
1:K:325:VAL:HG21	1:L:657:ASP:HB3	2.02	0.40
1:L:343:GLN:HA	1:L:404:MET:HA	2.04	0.40
1:L:436:MET:HE2	1:L:436:MET:HB2	1.89	0.40
1:L:522:PRO:HB2	1:L:524:MET:HE2	2.03	0.40
1:N:509:TRP:CD1	1:N:518:MET:SD	3.13	0.40
1:P:452:ASN:HB2	1:P:460:THR:HG23	2.03	0.40
1:R:343:GLN:HA	1:R:404:MET:HA	2.04	0.40
1:R:452:ASN:HB2	1:R:460:THR:HG23	2.03	0.40
1:S:542:ILE:HD12	1:S:560:ILE:HG12	2.02	0.40
1:T:522:PRO:HB2	1:T:524:MET:HE2	2.03	0.40
1:U:306:TRP:CZ2	1:U:692:SER:HB2	2.52	0.40
1:U:343:GLN:HA	1:U:404:MET:HA	2.04	0.40
1:V:343:GLN:HA	1:V:404:MET:HA	2.04	0.40
1:V:438:PRO:HB3	1:5:380:LEU:HD21	2.02	0.40
1:2:313:LEU:HD13	1:2:683:ILE:HG13	2.03	0.40
1:4:343:GLN:HA	1:4:404:MET:HA	2.04	0.40
1:4:522:PRO:HB2	1:4:524:MET:HE2	2.03	0.40
1:4:718:GLU:OE1	1:4:718:GLU:N	2.51	0.40
1:5:284:PHE:CE1	1:5:679:VAL:HG11	2.56	0.40
1:5:325:VAL:HG21	1:b:657:ASP:HB3	2.02	0.40
1:b:286:PHE:CE1	1:b:619:TRP:HH2	2.39	0.40
1:d:229:HIS:HD2	1:d:242:THR:HG21	1.86	0.40
1:d:509:TRP:CD1	1:d:518:MET:SD	3.13	0.40
1:d:698:GLU:HG2	1:d:732:LEU:HD23	2.01	0.40
1:e:229:HIS:HD2	1:e:242:THR:HG21	1.86	0.40
1:e:509:TRP:CD1	1:e:518:MET:SD	3.13	0.40
1:f:229:HIS:HD2	1:f:242:THR:HG21	1.86	0.40
1:f:260:ILE:HG22	1:f:260:ILE:O	2.22	0.40
1:f:343:GLN:HA	1:f:404:MET:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:452:ASN:HB2	1:f:460:THR:HG23	2.03	0.40
1:f:694:ARG:HH21	1:f:696:ASN:ND2	2.19	0.40
1:h:316:LYS:HB2	1:h:680:SER:HB2	2.04	0.40
1:h:343:GLN:HA	1:h:404:MET:HA	2.04	0.40
1:j:316:LYS:HB2	1:j:680:SER:HB2	2.04	0.40
1:o:343:GLN:HA	1:o:404:MET:HA	2.04	0.40
1:o:522:PRO:HB2	1:o:524:MET:HE2	2.03	0.40
1:q:343:GLN:HA	1:q:404:MET:HA	2.04	0.40
1:q:522:PRO:HB2	1:q:524:MET:HE2	2.03	0.40
1:r:313:LEU:HD13	1:r:683:ILE:HG13	2.02	0.40
1:r:438:PRO:HB3	1:s:380:LEU:HD21	2.03	0.40
1:s:436:MET:HE2	1:s:436:MET:HB2	1.89	0.40
1:t:284:PHE:CE1	1:t:679:VAL:HG11	2.55	0.40
1:w:286:PHE:CE1	1:w:619:TRP:HH2	2.39	0.40
1:w:522:PRO:HB2	1:w:524:MET:HE2	2.03	0.40
1:w:694:ARG:HH21	1:w:696:ASN:ND2	2.19	0.40
1:y:694:ARG:HH21	1:y:696:ASN:ND2	2.19	0.40
1:z:306:TRP:CZ2	1:z:692:SER:HB2	2.52	0.40
1:7:522:PRO:HB2	1:7:524:MET:HE2	2.03	0.40
1:8:239:VAL:CG2	1:8:687:LEU:HD11	2.52	0.40
1:A:380:LEU:HD21	1:I:438:PRO:HB3	2.03	0.40
1:C:380:LEU:HD21	1:M:438:PRO:HB3	2.03	0.40
1:D:343:GLN:HA	1:D:404:MET:HA	2.04	0.40
1:D:452:ASN:HB2	1:D:460:THR:HG23	2.03	0.40
1:F:522:PRO:HB2	1:F:524:MET:HE2	2.03	0.40
1:G:239:VAL:CG2	1:G:687:LEU:HD11	2.52	0.40
1:G:452:ASN:HB2	1:G:460:THR:HG23	2.03	0.40
1:H:343:GLN:HA	1:H:404:MET:HA	2.04	0.40
1:J:239:VAL:CG2	1:J:687:LEU:HD11	2.52	0.40
1:M:229:HIS:HD2	1:M:242:THR:HG21	1.86	0.40
1:M:260:ILE:HG22	1:M:260:ILE:O	2.22	0.40
1:M:284:PHE:CE1	1:M:679:VAL:HG11	2.55	0.40
1:M:316:LYS:HB2	1:M:680:SER:HB2	2.04	0.40
1:N:222:GLY:O	1:g:406:ARG:HB2	2.21	0.40
1:O:325:VAL:HG21	1:P:657:ASP:HB3	2.02	0.40
1:O:343:GLN:HA	1:O:404:MET:HA	2.04	0.40
1:R:229:HIS:HD2	1:R:242:THR:HG21	1.86	0.40
1:R:260:ILE:O	1:R:260:ILE:HG22	2.22	0.40
1:V:316:LYS:HB2	1:V:680:SER:HB2	2.04	0.40
1:W:260:ILE:O	1:W:260:ILE:HG22	2.22	0.40
1:W:313:LEU:HD13	1:W:683:ILE:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:343:GLN:HA	1:Y:404:MET:HA	2.04	0.40
1:Y:542:ILE:HD12	1:Y:560:ILE:HG12	2.02	0.40
1:Z:316:LYS:HB2	1:Z:680:SER:HB2	2.04	0.40
1:Z:563:GLU:OE2	1:Z:613:TYR:OH	2.25	0.40
1:1:286:PHE:CE1	1:1:619:TRP:HH2	2.39	0.40
1:1:306:TRP:CZ2	1:1:692:SER:HB2	2.52	0.40
1:3:284:PHE:CE1	1:3:679:VAL:HG11	2.56	0.40
1:5:260:ILE:HG22	1:5:260:ILE:O	2.22	0.40
1:5:343:GLN:HA	1:5:404:MET:HA	2.04	0.40
1:6:522:PRO:HB2	1:6:524:MET:HE2	2.03	0.40
1:a:343:GLN:HA	1:a:404:MET:HA	2.04	0.40
1:a:452:ASN:HB2	1:a:460:THR:HG23	2.03	0.40
1:g:694:ARG:HH21	1:g:696:ASN:ND2	2.19	0.40
1:i:522:PRO:HB2	1:i:524:MET:HE2	2.03	0.40
1:k:260:ILE:O	1:k:260:ILE:HG22	2.22	0.40
1:k:343:GLN:HA	1:k:404:MET:HA	2.04	0.40
1:l:260:ILE:O	1:l:260:ILE:HG22	2.22	0.40
1:m:343:GLN:HA	1:m:404:MET:HA	2.04	0.40
1:m:429:SER:HB3	1:m:733:THR:HB	2.01	0.40
1:n:239:VAL:CG2	1:n:687:LEU:HD11	2.52	0.40
1:n:325:VAL:HG21	1:z:657:ASP:HB3	2.02	0.40
1:n:452:ASN:HB2	1:n:460:THR:HG23	2.03	0.40
1:r:284:PHE:CE1	1:r:679:VAL:HG11	2.56	0.40
1:t:316:LYS:HB2	1:t:680:SER:HB2	2.04	0.40
1:v:452:ASN:HB2	1:v:460:THR:HG23	2.03	0.40
1:z:286:PHE:CE1	1:z:619:TRP:HH2	2.39	0.40
1:7:239:VAL:CG2	1:7:687:LEU:HD11	2.52	0.40
1:7:313:LEU:HD13	1:7:683:ILE:HG13	2.03	0.40
1:8:313:LEU:HD13	1:8:683:ILE:HG13	2.03	0.40
1:8:452:ASN:HB2	1:8:460:THR:HG23	2.03	0.40
1:A:260:ILE:O	1:A:260:ILE:HG22	2.22	0.40
1:G:313:LEU:HD13	1:G:683:ILE:HG13	2.03	0.40
1:H:260:ILE:O	1:H:260:ILE:HG22	2.22	0.40
1:I:694:ARG:HH21	1:I:696:ASN:ND2	2.19	0.40
1:K:438:PRO:HB3	1:1:380:LEU:HD21	2.03	0.40
1:K:509:TRP:CD1	1:K:518:MET:SD	3.13	0.40
1:L:321:GLN:HE22	1:2:654:VAL:HG22	1.87	0.40
1:N:313:LEU:HD13	1:N:683:ILE:HG13	2.02	0.40
1:N:373:MET:SD	1:g:662:PHE:HA	2.62	0.40
1:N:522:PRO:HB2	1:N:524:MET:HE2	2.03	0.40
1:O:260:ILE:HG22	1:O:260:ILE:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:260:ILE:O	1:P:260:ILE:HG22	2.22	0.40
1:P:286:PHE:CE1	1:P:619:TRP:HH2	2.39	0.40
1:P:343:GLN:HA	1:P:404:MET:HA	2.04	0.40
1:T:542:ILE:HD12	1:T:560:ILE:HG12	2.02	0.40
1:U:239:VAL:CG2	1:U:687:LEU:HD11	2.52	0.40
1:U:260:ILE:O	1:U:260:ILE:HG22	2.22	0.40
1:V:260:ILE:HG22	1:V:260:ILE:O	2.22	0.40
1:V:634:LEU:HB2	1:X:477:ASN:HA	2.02	0.40
1:Z:286:PHE:CE1	1:Z:619:TRP:HH2	2.39	0.40
1:3:477:ASN:HA	1:i:634:LEU:HB2	2.02	0.40
1:3:545:LYS:O	1:3:548:THR:OG1	2.34	0.40
1:4:239:VAL:CG2	1:4:687:LEU:HD11	2.52	0.40
1:6:634:LEU:HB2	1:a:477:ASN:HA	2.02	0.40
1:b:452:ASN:HB2	1:b:460:THR:HG23	2.03	0.40
1:d:522:PRO:HB2	1:d:524:MET:HE2	2.03	0.40
1:f:346:THR:HG21	1:f:413:PHE:CD2	2.57	0.40
1:l:313:LEU:HD13	1:l:683:ILE:HG13	2.03	0.40
1:o:321:GLN:HE22	1:v:654:VAL:HG22	1.87	0.40
1:r:239:VAL:CG2	1:r:687:LEU:HD11	2.52	0.40
1:s:343:GLN:HA	1:s:404:MET:HA	2.03	0.40
1:s:694:ARG:HH21	1:s:696:ASN:ND2	2.19	0.40
1:t:260:ILE:HG22	1:t:260:ILE:O	2.22	0.40
1:t:343:GLN:HA	1:t:404:MET:HA	2.04	0.40
1:t:438:PRO:HB3	1:u:380:LEU:HD21	2.03	0.40
1:v:316:LYS:HB2	1:v:680:SER:HB2	2.04	0.40
1:w:321:GLN:HE22	1:8:654:VAL:HG22	1.87	0.40
1:w:343:GLN:HA	1:w:404:MET:HA	2.04	0.40
1:y:438:PRO:HB3	1:z:380:LEU:HD21	2.03	0.40
1:y:509:TRP:CD1	1:y:518:MET:SD	3.13	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	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	2	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	3	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	4	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	5	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	6	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	7	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	8	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	A	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	B	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	C	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	D	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	E	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	F	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	G	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	H	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	I	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	J	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	K	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	L	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	M	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	N	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	O	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	P	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	Q	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	R	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	S	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	T	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	U	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	V	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	W	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	X	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	Z	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	a	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	b	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	c	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	d	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	e	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	f	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	g	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	h	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	i	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	j	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	k	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	l	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	m	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	n	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	o	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	p	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	q	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	r	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	s	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	t	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	u	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	v	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	w	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	x	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	y	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
1	z	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	44	73
All	All	30960/31080 (100%)	30000 (97%)	900 (3%)	60 (0%)	45	73

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	707	LYS
1	B	707	LYS
1	C	707	LYS
1	D	707	LYS
1	E	707	LYS
1	F	707	LYS
1	G	707	LYS
1	H	707	LYS
1	I	707	LYS
1	J	707	LYS
1	K	707	LYS
1	L	707	LYS
1	M	707	LYS
1	N	707	LYS
1	O	707	LYS
1	P	707	LYS
1	Q	707	LYS
1	R	707	LYS
1	S	707	LYS
1	T	707	LYS
1	U	707	LYS
1	V	707	LYS
1	W	707	LYS
1	X	707	LYS
1	Y	707	LYS
1	Z	707	LYS
1	1	707	LYS
1	2	707	LYS
1	3	707	LYS
1	4	707	LYS
1	5	707	LYS
1	6	707	LYS
1	a	707	LYS
1	b	707	LYS
1	c	707	LYS
1	d	707	LYS
1	e	707	LYS
1	f	707	LYS
1	g	707	LYS
1	h	707	LYS
1	i	707	LYS
1	j	707	LYS
1	k	707	LYS

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Mol	Chain	Res	Type
1	l	707	LYS
1	m	707	LYS
1	n	707	LYS
1	o	707	LYS
1	p	707	LYS
1	q	707	LYS
1	r	707	LYS
1	s	707	LYS
1	t	707	LYS
1	u	707	LYS
1	v	707	LYS
1	w	707	LYS
1	x	707	LYS
1	y	707	LYS
1	z	707	LYS
1	7	707	LYS
1	8	707	LYS

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	453/453 (100%)	452 (100%)	1 (0%)	92 97
1	2	453/453 (100%)	452 (100%)	1 (0%)	92 97
1	3	453/453 (100%)	452 (100%)	1 (0%)	92 97
1	4	453/453 (100%)	452 (100%)	1 (0%)	92 97
1	5	453/453 (100%)	452 (100%)	1 (0%)	92 97
1	6	453/453 (100%)	452 (100%)	1 (0%)	92 97
1	7	453/453 (100%)	452 (100%)	1 (0%)	92 97
1	8	453/453 (100%)	452 (100%)	1 (0%)	92 97
1	A	453/453 (100%)	452 (100%)	1 (0%)	92 97
1	B	453/453 (100%)	452 (100%)	1 (0%)	92 97
1	C	453/453 (100%)	452 (100%)	1 (0%)	92 97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	E	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	F	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	G	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	H	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	I	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	J	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	K	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	L	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	M	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	N	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	O	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	P	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	Q	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	R	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	S	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	T	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	U	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	V	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	W	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	X	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	Y	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	Z	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	a	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	b	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	c	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	d	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	e	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	f	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	g	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	h	453/453 (100%)	452 (100%)	1 (0%)	92	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	i	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	j	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	k	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	l	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	m	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	n	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	o	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	p	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	q	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	r	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	s	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	t	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	u	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	v	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	w	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	x	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	y	453/453 (100%)	452 (100%)	1 (0%)	92	97
1	z	453/453 (100%)	452 (100%)	1 (0%)	92	97
All	All	27180/27180 (100%)	27120 (100%)	60 (0%)	91	97

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

Mol	Chain	Res	Type
1	A	436	MET
1	B	436	MET
1	C	436	MET
1	D	436	MET
1	E	436	MET
1	F	436	MET
1	G	436	MET
1	H	436	MET
1	I	436	MET
1	J	436	MET
1	K	436	MET
1	L	436	MET
1	M	436	MET

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Mol	Chain	Res	Type
1	N	436	MET
1	O	436	MET
1	P	436	MET
1	Q	436	MET
1	R	436	MET
1	S	436	MET
1	T	436	MET
1	U	436	MET
1	V	436	MET
1	W	436	MET
1	X	436	MET
1	Y	436	MET
1	Z	436	MET
1	1	436	MET
1	2	436	MET
1	3	436	MET
1	4	436	MET
1	5	436	MET
1	6	436	MET
1	a	436	MET
1	b	436	MET
1	c	436	MET
1	d	436	MET
1	e	436	MET
1	f	436	MET
1	g	436	MET
1	h	436	MET
1	i	436	MET
1	j	436	MET
1	k	436	MET
1	l	436	MET
1	m	436	MET
1	n	436	MET
1	o	436	MET
1	p	436	MET
1	q	436	MET
1	r	436	MET
1	s	436	MET
1	t	436	MET
1	u	436	MET
1	v	436	MET
1	w	436	MET

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Mol	Chain	Res	Type
1	x	436	MET
1	y	436	MET
1	z	436	MET
1	7	436	MET
1	8	436	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (813) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	229	HIS
1	A	290	HIS
1	A	314	ASN
1	A	337	ASN
1	A	343	GLN
1	A	423	HIS
1	A	428	HIS
1	A	497	ASN
1	A	579	GLN
1	A	624	HIS
1	A	642	HIS
1	A	646	GLN
1	A	673	GLN
1	A	700	GLN
1	B	229	HIS
1	B	290	HIS
1	B	314	ASN
1	B	337	ASN
1	B	343	GLN
1	B	423	HIS
1	B	428	HIS
1	B	497	ASN
1	B	579	GLN
1	B	624	HIS
1	B	642	HIS
1	B	646	GLN
1	B	673	GLN
1	B	700	GLN
1	C	229	HIS
1	C	290	HIS
1	C	314	ASN
1	C	337	ASN
1	C	343	GLN

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Mol	Chain	Res	Type
1	C	423	HIS
1	C	497	ASN
1	C	579	GLN
1	C	624	HIS
1	C	642	HIS
1	C	646	GLN
1	C	673	GLN
1	C	700	GLN
1	D	229	HIS
1	D	290	HIS
1	D	314	ASN
1	D	337	ASN
1	D	343	GLN
1	D	423	HIS
1	D	497	ASN
1	D	519	ASN
1	D	579	GLN
1	D	624	HIS
1	D	642	HIS
1	D	646	GLN
1	D	673	GLN
1	D	700	GLN
1	E	229	HIS
1	E	290	HIS
1	E	314	ASN
1	E	337	ASN
1	E	343	GLN
1	E	423	HIS
1	E	497	ASN
1	E	579	GLN
1	E	624	HIS
1	E	642	HIS
1	E	646	GLN
1	E	673	GLN
1	E	700	GLN
1	F	229	HIS
1	F	290	HIS
1	F	314	ASN
1	F	337	ASN
1	F	343	GLN
1	F	423	HIS
1	F	497	ASN

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Mol	Chain	Res	Type
1	F	579	GLN
1	F	624	HIS
1	F	642	HIS
1	F	646	GLN
1	F	673	GLN
1	F	700	GLN
1	G	229	HIS
1	G	290	HIS
1	G	314	ASN
1	G	337	ASN
1	G	343	GLN
1	G	423	HIS
1	G	428	HIS
1	G	497	ASN
1	G	579	GLN
1	G	624	HIS
1	G	642	HIS
1	G	646	GLN
1	G	673	GLN
1	G	700	GLN
1	H	229	HIS
1	H	290	HIS
1	H	314	ASN
1	H	337	ASN
1	H	343	GLN
1	H	423	HIS
1	H	497	ASN
1	H	579	GLN
1	H	624	HIS
1	H	642	HIS
1	H	646	GLN
1	H	673	GLN
1	H	700	GLN
1	I	229	HIS
1	I	290	HIS
1	I	314	ASN
1	I	337	ASN
1	I	343	GLN
1	I	423	HIS
1	I	428	HIS
1	I	497	ASN
1	I	579	GLN

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Mol	Chain	Res	Type
1	I	624	HIS
1	I	642	HIS
1	I	646	GLN
1	I	673	GLN
1	I	700	GLN
1	J	229	HIS
1	J	290	HIS
1	J	314	ASN
1	J	337	ASN
1	J	343	GLN
1	J	423	HIS
1	J	428	HIS
1	J	497	ASN
1	J	579	GLN
1	J	624	HIS
1	J	642	HIS
1	J	646	GLN
1	J	673	GLN
1	J	700	GLN
1	K	229	HIS
1	K	290	HIS
1	K	314	ASN
1	K	337	ASN
1	K	343	GLN
1	K	423	HIS
1	K	428	HIS
1	K	497	ASN
1	K	519	ASN
1	K	579	GLN
1	K	624	HIS
1	K	642	HIS
1	K	646	GLN
1	K	673	GLN
1	K	700	GLN
1	L	229	HIS
1	L	290	HIS
1	L	314	ASN
1	L	337	ASN
1	L	343	GLN
1	L	423	HIS
1	L	497	ASN
1	L	579	GLN

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Mol	Chain	Res	Type
1	L	624	HIS
1	L	646	GLN
1	L	673	GLN
1	L	700	GLN
1	M	229	HIS
1	M	290	HIS
1	M	314	ASN
1	M	337	ASN
1	M	343	GLN
1	M	423	HIS
1	M	497	ASN
1	M	579	GLN
1	M	624	HIS
1	M	642	HIS
1	M	646	GLN
1	M	673	GLN
1	M	700	GLN
1	N	229	HIS
1	N	290	HIS
1	N	314	ASN
1	N	337	ASN
1	N	343	GLN
1	N	423	HIS
1	N	428	HIS
1	N	497	ASN
1	N	579	GLN
1	N	624	HIS
1	N	642	HIS
1	N	646	GLN
1	N	673	GLN
1	N	700	GLN
1	O	229	HIS
1	O	290	HIS
1	O	314	ASN
1	O	337	ASN
1	O	343	GLN
1	O	423	HIS
1	O	428	HIS
1	O	497	ASN
1	O	579	GLN
1	O	624	HIS
1	O	642	HIS

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Mol	Chain	Res	Type
1	O	646	GLN
1	O	673	GLN
1	O	700	GLN
1	P	229	HIS
1	P	290	HIS
1	P	314	ASN
1	P	337	ASN
1	P	343	GLN
1	P	423	HIS
1	P	428	HIS
1	P	497	ASN
1	P	579	GLN
1	P	624	HIS
1	P	642	HIS
1	P	646	GLN
1	P	673	GLN
1	P	700	GLN
1	Q	229	HIS
1	Q	290	HIS
1	Q	314	ASN
1	Q	337	ASN
1	Q	343	GLN
1	Q	423	HIS
1	Q	497	ASN
1	Q	579	GLN
1	Q	624	HIS
1	Q	642	HIS
1	Q	646	GLN
1	Q	673	GLN
1	Q	700	GLN
1	R	229	HIS
1	R	290	HIS
1	R	314	ASN
1	R	337	ASN
1	R	343	GLN
1	R	423	HIS
1	R	497	ASN
1	R	579	GLN
1	R	624	HIS
1	R	642	HIS
1	R	646	GLN
1	R	673	GLN

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Mol	Chain	Res	Type
1	R	700	GLN
1	S	229	HIS
1	S	290	HIS
1	S	314	ASN
1	S	337	ASN
1	S	343	GLN
1	S	423	HIS
1	S	497	ASN
1	S	579	GLN
1	S	624	HIS
1	S	646	GLN
1	S	673	GLN
1	S	700	GLN
1	T	229	HIS
1	T	290	HIS
1	T	314	ASN
1	T	337	ASN
1	T	343	GLN
1	T	423	HIS
1	T	497	ASN
1	T	579	GLN
1	T	624	HIS
1	T	646	GLN
1	T	673	GLN
1	T	700	GLN
1	U	229	HIS
1	U	290	HIS
1	U	314	ASN
1	U	337	ASN
1	U	343	GLN
1	U	423	HIS
1	U	497	ASN
1	U	579	GLN
1	U	624	HIS
1	U	642	HIS
1	U	646	GLN
1	U	673	GLN
1	U	700	GLN
1	V	229	HIS
1	V	290	HIS
1	V	314	ASN
1	V	337	ASN

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Mol	Chain	Res	Type
1	V	343	GLN
1	V	423	HIS
1	V	497	ASN
1	V	579	GLN
1	V	624	HIS
1	V	642	HIS
1	V	646	GLN
1	V	673	GLN
1	V	700	GLN
1	W	229	HIS
1	W	290	HIS
1	W	314	ASN
1	W	337	ASN
1	W	343	GLN
1	W	423	HIS
1	W	428	HIS
1	W	497	ASN
1	W	579	GLN
1	W	624	HIS
1	W	642	HIS
1	W	646	GLN
1	W	673	GLN
1	W	700	GLN
1	X	229	HIS
1	X	290	HIS
1	X	314	ASN
1	X	337	ASN
1	X	343	GLN
1	X	423	HIS
1	X	428	HIS
1	X	497	ASN
1	X	579	GLN
1	X	624	HIS
1	X	642	HIS
1	X	646	GLN
1	X	673	GLN
1	X	700	GLN
1	Y	229	HIS
1	Y	290	HIS
1	Y	314	ASN
1	Y	337	ASN
1	Y	343	GLN

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Mol	Chain	Res	Type
1	Y	423	HIS
1	Y	428	HIS
1	Y	497	ASN
1	Y	579	GLN
1	Y	624	HIS
1	Y	642	HIS
1	Y	646	GLN
1	Y	673	GLN
1	Y	700	GLN
1	Z	229	HIS
1	Z	290	HIS
1	Z	314	ASN
1	Z	337	ASN
1	Z	343	GLN
1	Z	423	HIS
1	Z	428	HIS
1	Z	497	ASN
1	Z	579	GLN
1	Z	624	HIS
1	Z	642	HIS
1	Z	646	GLN
1	Z	673	GLN
1	Z	700	GLN
1	1	229	HIS
1	1	290	HIS
1	1	314	ASN
1	1	337	ASN
1	1	343	GLN
1	1	423	HIS
1	1	497	ASN
1	1	579	GLN
1	1	624	HIS
1	1	642	HIS
1	1	646	GLN
1	1	673	GLN
1	1	700	GLN
1	2	229	HIS
1	2	290	HIS
1	2	314	ASN
1	2	337	ASN
1	2	343	GLN
1	2	423	HIS

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Mol	Chain	Res	Type
1	2	497	ASN
1	2	579	GLN
1	2	624	HIS
1	2	642	HIS
1	2	646	GLN
1	2	673	GLN
1	2	700	GLN
1	3	229	HIS
1	3	290	HIS
1	3	314	ASN
1	3	337	ASN
1	3	343	GLN
1	3	423	HIS
1	3	428	HIS
1	3	497	ASN
1	3	579	GLN
1	3	624	HIS
1	3	642	HIS
1	3	646	GLN
1	3	673	GLN
1	3	700	GLN
1	4	229	HIS
1	4	290	HIS
1	4	314	ASN
1	4	337	ASN
1	4	343	GLN
1	4	423	HIS
1	4	497	ASN
1	4	579	GLN
1	4	624	HIS
1	4	642	HIS
1	4	646	GLN
1	4	673	GLN
1	4	700	GLN
1	5	229	HIS
1	5	290	HIS
1	5	314	ASN
1	5	337	ASN
1	5	343	GLN
1	5	423	HIS
1	5	428	HIS
1	5	497	ASN

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Mol	Chain	Res	Type
1	5	579	GLN
1	5	624	HIS
1	5	642	HIS
1	5	646	GLN
1	5	673	GLN
1	5	700	GLN
1	6	229	HIS
1	6	290	HIS
1	6	314	ASN
1	6	337	ASN
1	6	343	GLN
1	6	423	HIS
1	6	428	HIS
1	6	497	ASN
1	6	579	GLN
1	6	624	HIS
1	6	642	HIS
1	6	646	GLN
1	6	673	GLN
1	6	700	GLN
1	a	229	HIS
1	a	290	HIS
1	a	314	ASN
1	a	337	ASN
1	a	343	GLN
1	a	423	HIS
1	a	428	HIS
1	a	497	ASN
1	a	519	ASN
1	a	579	GLN
1	a	624	HIS
1	a	642	HIS
1	a	646	GLN
1	a	673	GLN
1	a	700	GLN
1	b	229	HIS
1	b	290	HIS
1	b	314	ASN
1	b	337	ASN
1	b	343	GLN
1	b	423	HIS
1	b	428	HIS

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Mol	Chain	Res	Type
1	b	497	ASN
1	b	579	GLN
1	b	624	HIS
1	b	642	HIS
1	b	646	GLN
1	b	673	GLN
1	b	700	GLN
1	c	229	HIS
1	c	290	HIS
1	c	314	ASN
1	c	337	ASN
1	c	343	GLN
1	c	423	HIS
1	c	497	ASN
1	c	579	GLN
1	c	624	HIS
1	c	642	HIS
1	c	646	GLN
1	c	673	GLN
1	c	700	GLN
1	d	229	HIS
1	d	290	HIS
1	d	314	ASN
1	d	337	ASN
1	d	343	GLN
1	d	423	HIS
1	d	497	ASN
1	d	579	GLN
1	d	624	HIS
1	d	642	HIS
1	d	646	GLN
1	d	673	GLN
1	d	700	GLN
1	e	229	HIS
1	e	290	HIS
1	e	314	ASN
1	e	337	ASN
1	e	343	GLN
1	e	423	HIS
1	e	497	ASN
1	e	579	GLN
1	e	624	HIS

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Mol	Chain	Res	Type
1	e	642	HIS
1	e	646	GLN
1	e	673	GLN
1	e	700	GLN
1	f	229	HIS
1	f	290	HIS
1	f	314	ASN
1	f	337	ASN
1	f	343	GLN
1	f	423	HIS
1	f	497	ASN
1	f	579	GLN
1	f	624	HIS
1	f	642	HIS
1	f	646	GLN
1	f	673	GLN
1	f	700	GLN
1	g	229	HIS
1	g	290	HIS
1	g	314	ASN
1	g	337	ASN
1	g	343	GLN
1	g	423	HIS
1	g	428	HIS
1	g	497	ASN
1	g	579	GLN
1	g	624	HIS
1	g	642	HIS
1	g	646	GLN
1	g	673	GLN
1	g	700	GLN
1	h	229	HIS
1	h	290	HIS
1	h	314	ASN
1	h	337	ASN
1	h	343	GLN
1	h	423	HIS
1	h	428	HIS
1	h	497	ASN
1	h	579	GLN
1	h	624	HIS
1	h	642	HIS

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Mol	Chain	Res	Type
1	h	646	GLN
1	h	673	GLN
1	h	700	GLN
1	i	229	HIS
1	i	290	HIS
1	i	314	ASN
1	i	337	ASN
1	i	343	GLN
1	i	423	HIS
1	i	428	HIS
1	i	497	ASN
1	i	579	GLN
1	i	624	HIS
1	i	642	HIS
1	i	646	GLN
1	i	673	GLN
1	i	700	GLN
1	j	229	HIS
1	j	290	HIS
1	j	314	ASN
1	j	337	ASN
1	j	343	GLN
1	j	423	HIS
1	j	428	HIS
1	j	497	ASN
1	j	579	GLN
1	j	624	HIS
1	j	642	HIS
1	j	646	GLN
1	j	673	GLN
1	j	700	GLN
1	k	229	HIS
1	k	290	HIS
1	k	314	ASN
1	k	337	ASN
1	k	343	GLN
1	k	423	HIS
1	k	497	ASN
1	k	579	GLN
1	k	624	HIS
1	k	642	HIS
1	k	646	GLN

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Mol	Chain	Res	Type
1	k	673	GLN
1	k	700	GLN
1	l	229	HIS
1	l	290	HIS
1	l	314	ASN
1	l	337	ASN
1	l	343	GLN
1	l	423	HIS
1	l	497	ASN
1	l	579	GLN
1	l	624	HIS
1	l	642	HIS
1	l	646	GLN
1	l	673	GLN
1	l	700	GLN
1	m	229	HIS
1	m	290	HIS
1	m	314	ASN
1	m	337	ASN
1	m	343	GLN
1	m	423	HIS
1	m	428	HIS
1	m	497	ASN
1	m	579	GLN
1	m	624	HIS
1	m	642	HIS
1	m	646	GLN
1	m	673	GLN
1	m	700	GLN
1	n	229	HIS
1	n	290	HIS
1	n	314	ASN
1	n	337	ASN
1	n	343	GLN
1	n	423	HIS
1	n	497	ASN
1	n	579	GLN
1	n	624	HIS
1	n	642	HIS
1	n	646	GLN
1	n	673	GLN
1	n	700	GLN

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Mol	Chain	Res	Type
1	o	229	HIS
1	o	290	HIS
1	o	314	ASN
1	o	337	ASN
1	o	343	GLN
1	o	423	HIS
1	o	497	ASN
1	o	579	GLN
1	o	624	HIS
1	o	642	HIS
1	o	646	GLN
1	o	673	GLN
1	o	700	GLN
1	p	229	HIS
1	p	290	HIS
1	p	314	ASN
1	p	337	ASN
1	p	343	GLN
1	p	423	HIS
1	p	428	HIS
1	p	497	ASN
1	p	579	GLN
1	p	624	HIS
1	p	642	HIS
1	p	646	GLN
1	p	673	GLN
1	p	700	GLN
1	q	229	HIS
1	q	290	HIS
1	q	314	ASN
1	q	337	ASN
1	q	343	GLN
1	q	423	HIS
1	q	428	HIS
1	q	497	ASN
1	q	579	GLN
1	q	624	HIS
1	q	642	HIS
1	q	646	GLN
1	q	673	GLN
1	q	700	GLN
1	r	229	HIS

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Mol	Chain	Res	Type
1	r	290	HIS
1	r	314	ASN
1	r	337	ASN
1	r	343	GLN
1	r	423	HIS
1	r	428	HIS
1	r	497	ASN
1	r	579	GLN
1	r	624	HIS
1	r	642	HIS
1	r	646	GLN
1	r	673	GLN
1	r	700	GLN
1	s	229	HIS
1	s	290	HIS
1	s	314	ASN
1	s	337	ASN
1	s	343	GLN
1	s	423	HIS
1	s	428	HIS
1	s	497	ASN
1	s	579	GLN
1	s	624	HIS
1	s	642	HIS
1	s	646	GLN
1	s	673	GLN
1	s	700	GLN
1	t	229	HIS
1	t	290	HIS
1	t	314	ASN
1	t	337	ASN
1	t	343	GLN
1	t	423	HIS
1	t	497	ASN
1	t	579	GLN
1	t	624	HIS
1	t	642	HIS
1	t	646	GLN
1	t	673	GLN
1	t	700	GLN
1	u	229	HIS
1	u	290	HIS

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Mol	Chain	Res	Type
1	u	314	ASN
1	u	337	ASN
1	u	343	GLN
1	u	423	HIS
1	u	497	ASN
1	u	579	GLN
1	u	624	HIS
1	u	642	HIS
1	u	646	GLN
1	u	673	GLN
1	u	700	GLN
1	v	229	HIS
1	v	290	HIS
1	v	314	ASN
1	v	337	ASN
1	v	343	GLN
1	v	423	HIS
1	v	497	ASN
1	v	579	GLN
1	v	624	HIS
1	v	642	HIS
1	v	646	GLN
1	v	673	GLN
1	v	700	GLN
1	w	229	HIS
1	w	290	HIS
1	w	314	ASN
1	w	337	ASN
1	w	343	GLN
1	w	423	HIS
1	w	428	HIS
1	w	497	ASN
1	w	579	GLN
1	w	624	HIS
1	w	642	HIS
1	w	646	GLN
1	w	673	GLN
1	w	700	GLN
1	x	229	HIS
1	x	290	HIS
1	x	314	ASN
1	x	337	ASN

Continued on next page...

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Mol	Chain	Res	Type
1	x	343	GLN
1	x	423	HIS
1	x	428	HIS
1	x	497	ASN
1	x	579	GLN
1	x	624	HIS
1	x	642	HIS
1	x	646	GLN
1	x	673	GLN
1	x	700	GLN
1	y	229	HIS
1	y	290	HIS
1	y	314	ASN
1	y	337	ASN
1	y	343	GLN
1	y	423	HIS
1	y	428	HIS
1	y	497	ASN
1	y	579	GLN
1	y	624	HIS
1	y	642	HIS
1	y	646	GLN
1	y	673	GLN
1	y	700	GLN
1	z	229	HIS
1	z	290	HIS
1	z	314	ASN
1	z	337	ASN
1	z	343	GLN
1	z	423	HIS
1	z	497	ASN
1	z	579	GLN
1	z	624	HIS
1	z	642	HIS
1	z	646	GLN
1	z	673	GLN
1	z	700	GLN
1	7	229	HIS
1	7	290	HIS
1	7	314	ASN
1	7	337	ASN
1	7	343	GLN

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Mol	Chain	Res	Type
1	7	423	HIS
1	7	428	HIS
1	7	497	ASN
1	7	579	GLN
1	7	624	HIS
1	7	642	HIS
1	7	646	GLN
1	7	673	GLN
1	7	700	GLN
1	8	229	HIS
1	8	290	HIS
1	8	314	ASN
1	8	337	ASN
1	8	343	GLN
1	8	423	HIS
1	8	428	HIS
1	8	497	ASN
1	8	519	ASN
1	8	579	GLN
1	8	624	HIS
1	8	642	HIS
1	8	646	GLN
1	8	673	GLN
1	8	700	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	A	1
1	B	1
1	C	1
1	D	1
1	E	1
1	F	1
1	G	1
1	H	1
1	I	1
1	J	1
1	K	1
1	L	1
1	M	1
1	N	1
1	O	1
1	P	1
1	Q	1
1	R	1
1	S	1
1	T	1
1	U	1
1	V	1
1	W	1
1	X	1
1	Y	1
1	Z	1
1	1	1
1	2	1
1	3	1
1	4	1
1	5	1
1	6	1
1	a	1
1	b	1
1	c	1

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Mol	Chain	Number of breaks
1	d	1
1	e	1
1	f	1
1	g	1
1	h	1
1	i	1
1	j	1
1	k	1
1	l	1
1	m	1
1	n	1
1	o	1
1	p	1
1	q	1
1	r	1
1	s	1
1	t	1
1	u	1
1	v	1
1	w	1
1	x	1
1	y	1
1	z	1
1	7	1
1	8	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	A	400:PHE	C	401:PRO	N	1.15
1	B	400:PHE	C	401:PRO	N	1.15
1	C	400:PHE	C	401:PRO	N	1.15
1	D	400:PHE	C	401:PRO	N	1.15
1	E	400:PHE	C	401:PRO	N	1.15
1	F	400:PHE	C	401:PRO	N	1.15
1	G	400:PHE	C	401:PRO	N	1.15
1	H	400:PHE	C	401:PRO	N	1.15
1	I	400:PHE	C	401:PRO	N	1.15
1	J	400:PHE	C	401:PRO	N	1.15
1	K	400:PHE	C	401:PRO	N	1.15
1	L	400:PHE	C	401:PRO	N	1.15
1	M	400:PHE	C	401:PRO	N	1.15
1	N	400:PHE	C	401:PRO	N	1.15

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	O	400:PHE	C	401:PRO	N	1.15
1	P	400:PHE	C	401:PRO	N	1.15
1	Q	400:PHE	C	401:PRO	N	1.15
1	R	400:PHE	C	401:PRO	N	1.15
1	S	400:PHE	C	401:PRO	N	1.15
1	T	400:PHE	C	401:PRO	N	1.15
1	U	400:PHE	C	401:PRO	N	1.15
1	V	400:PHE	C	401:PRO	N	1.15
1	W	400:PHE	C	401:PRO	N	1.15
1	X	400:PHE	C	401:PRO	N	1.15
1	Y	400:PHE	C	401:PRO	N	1.15
1	Z	400:PHE	C	401:PRO	N	1.15
1	1	400:PHE	C	401:PRO	N	1.15
1	2	400:PHE	C	401:PRO	N	1.15
1	3	400:PHE	C	401:PRO	N	1.15
1	4	400:PHE	C	401:PRO	N	1.15
1	5	400:PHE	C	401:PRO	N	1.15
1	6	400:PHE	C	401:PRO	N	1.15
1	a	400:PHE	C	401:PRO	N	1.15
1	b	400:PHE	C	401:PRO	N	1.15
1	c	400:PHE	C	401:PRO	N	1.15
1	d	400:PHE	C	401:PRO	N	1.15
1	e	400:PHE	C	401:PRO	N	1.15
1	f	400:PHE	C	401:PRO	N	1.15
1	g	400:PHE	C	401:PRO	N	1.15
1	h	400:PHE	C	401:PRO	N	1.15
1	i	400:PHE	C	401:PRO	N	1.15
1	j	400:PHE	C	401:PRO	N	1.15
1	k	400:PHE	C	401:PRO	N	1.15
1	l	400:PHE	C	401:PRO	N	1.15
1	m	400:PHE	C	401:PRO	N	1.15
1	n	400:PHE	C	401:PRO	N	1.15
1	o	400:PHE	C	401:PRO	N	1.15
1	p	400:PHE	C	401:PRO	N	1.15
1	q	400:PHE	C	401:PRO	N	1.15
1	r	400:PHE	C	401:PRO	N	1.15
1	s	400:PHE	C	401:PRO	N	1.15
1	t	400:PHE	C	401:PRO	N	1.15
1	u	400:PHE	C	401:PRO	N	1.15
1	v	400:PHE	C	401:PRO	N	1.15
1	w	400:PHE	C	401:PRO	N	1.15
1	x	400:PHE	C	401:PRO	N	1.15

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	y	400:PHE	C	401:PRO	N	1.15
1	z	400:PHE	C	401:PRO	N	1.15
1	7	400:PHE	C	401:PRO	N	1.15
1	8	400:PHE	C	401:PRO	N	1.15

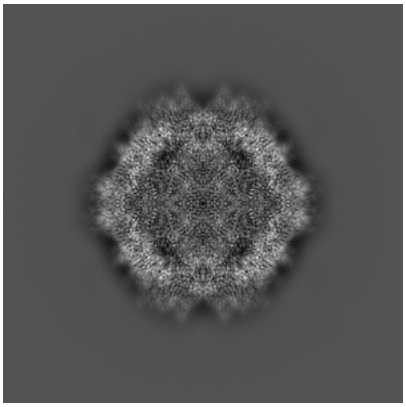
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-23993. These allow visual inspection of the internal detail of the map and identification of artifacts.

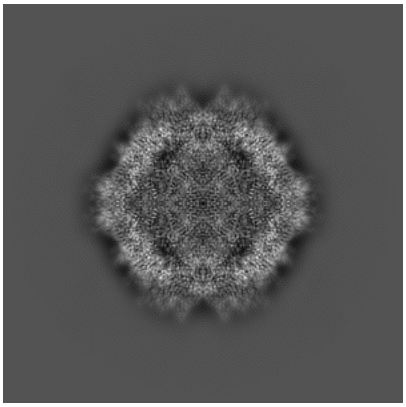
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

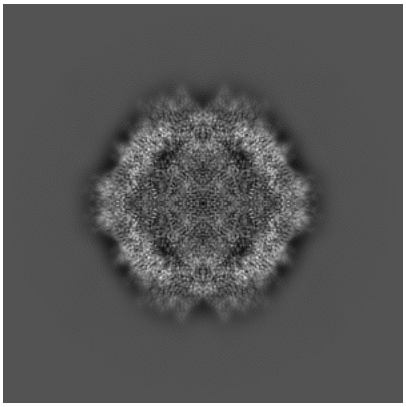
6.1.1 Primary map



X



Y

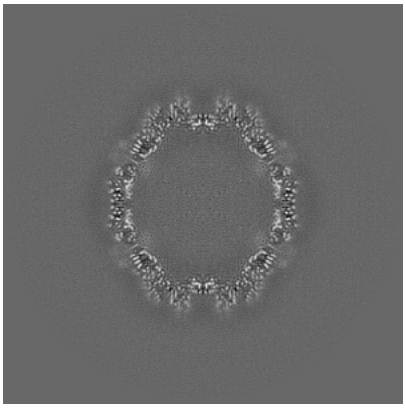


Z

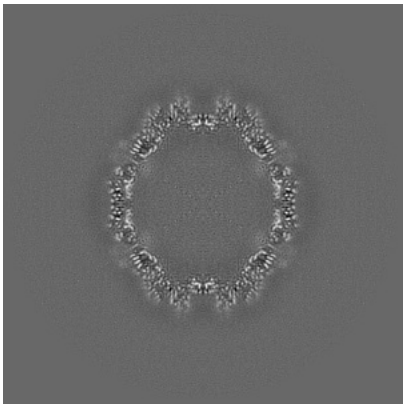
The images above show the map projected in three orthogonal directions.

6.2 Central slices

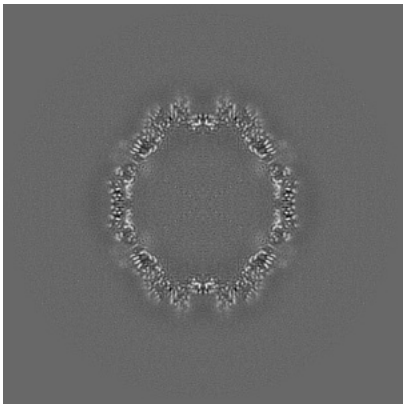
6.2.1 Primary map



X Index: 220



Y Index: 220

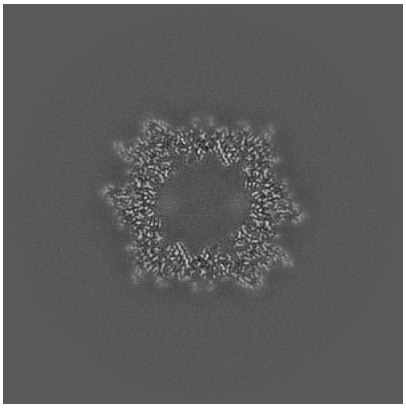


Z Index: 220

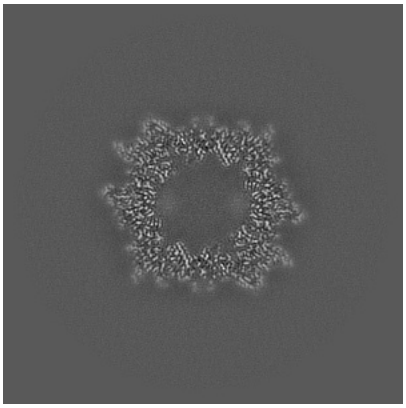
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

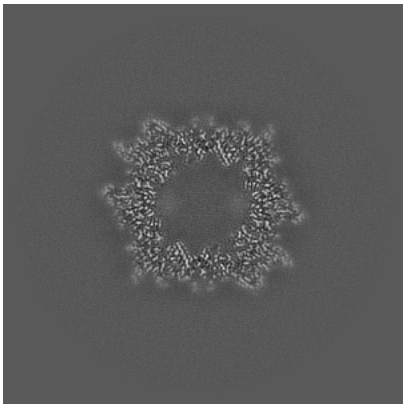
6.3.1 Primary map



X Index: 280



Y Index: 280

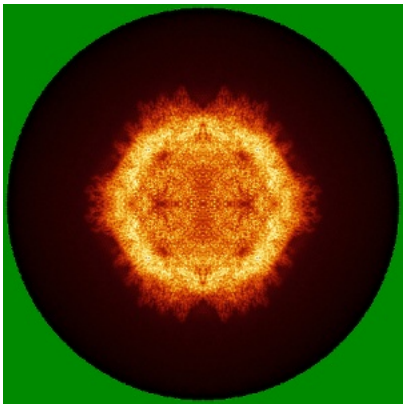


Z Index: 280

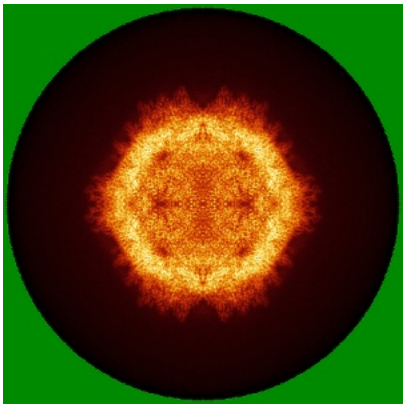
The images above show the largest variance slices of the map in three orthogonal directions.

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

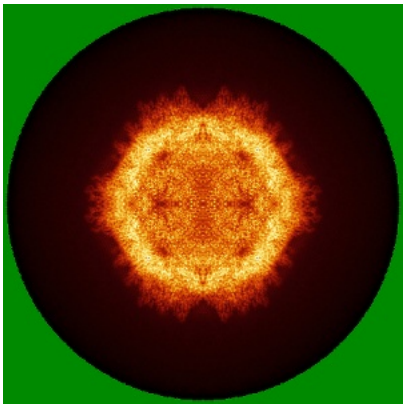
6.4.1 Primary map



X



Y

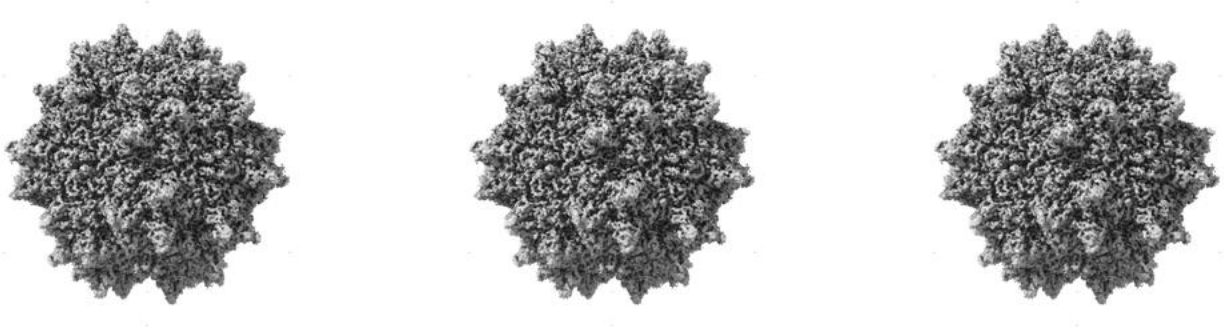


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

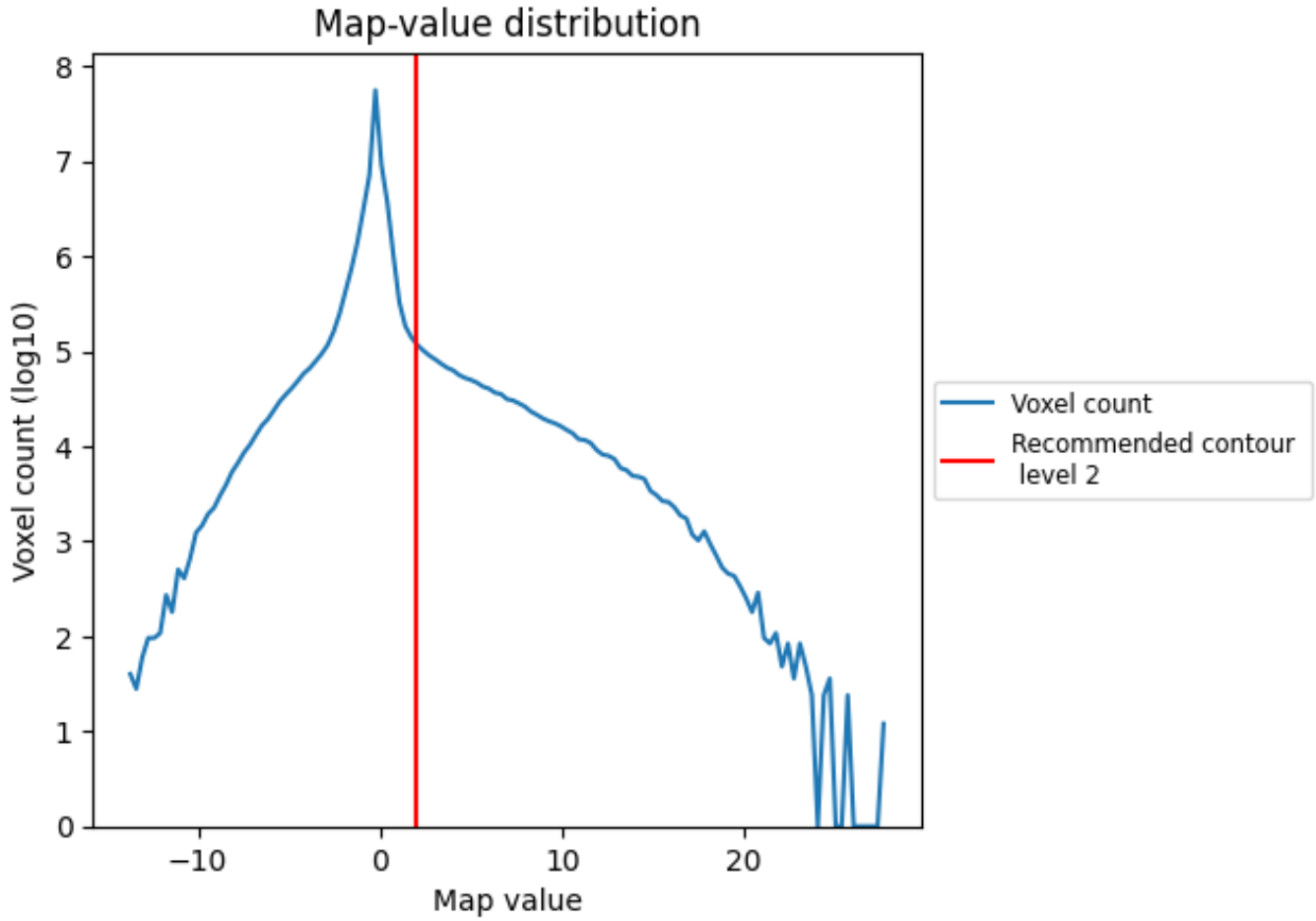
6.6 Mask visualisation (i)

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

7 Map analysis

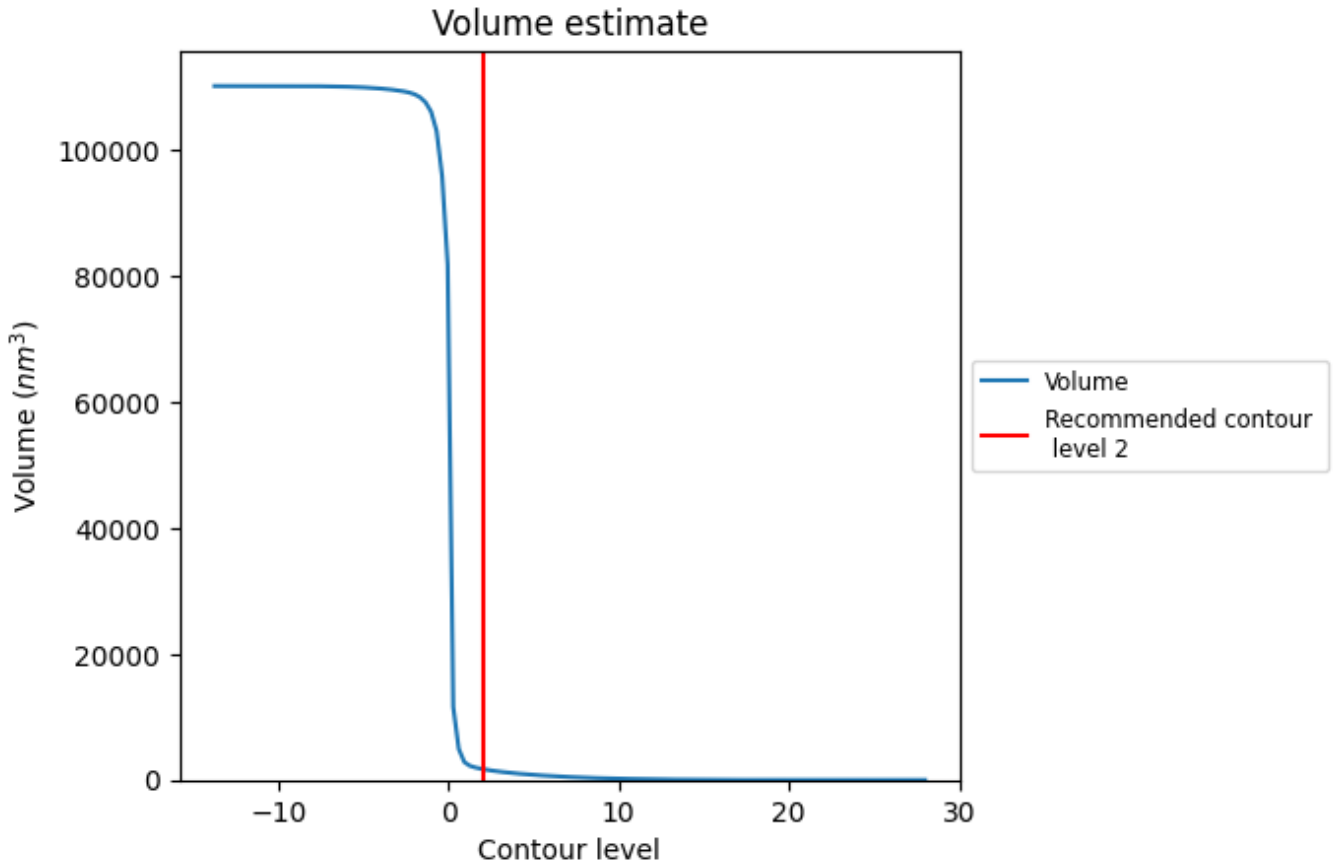
This section contains the results of statistical analysis of the map.

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.

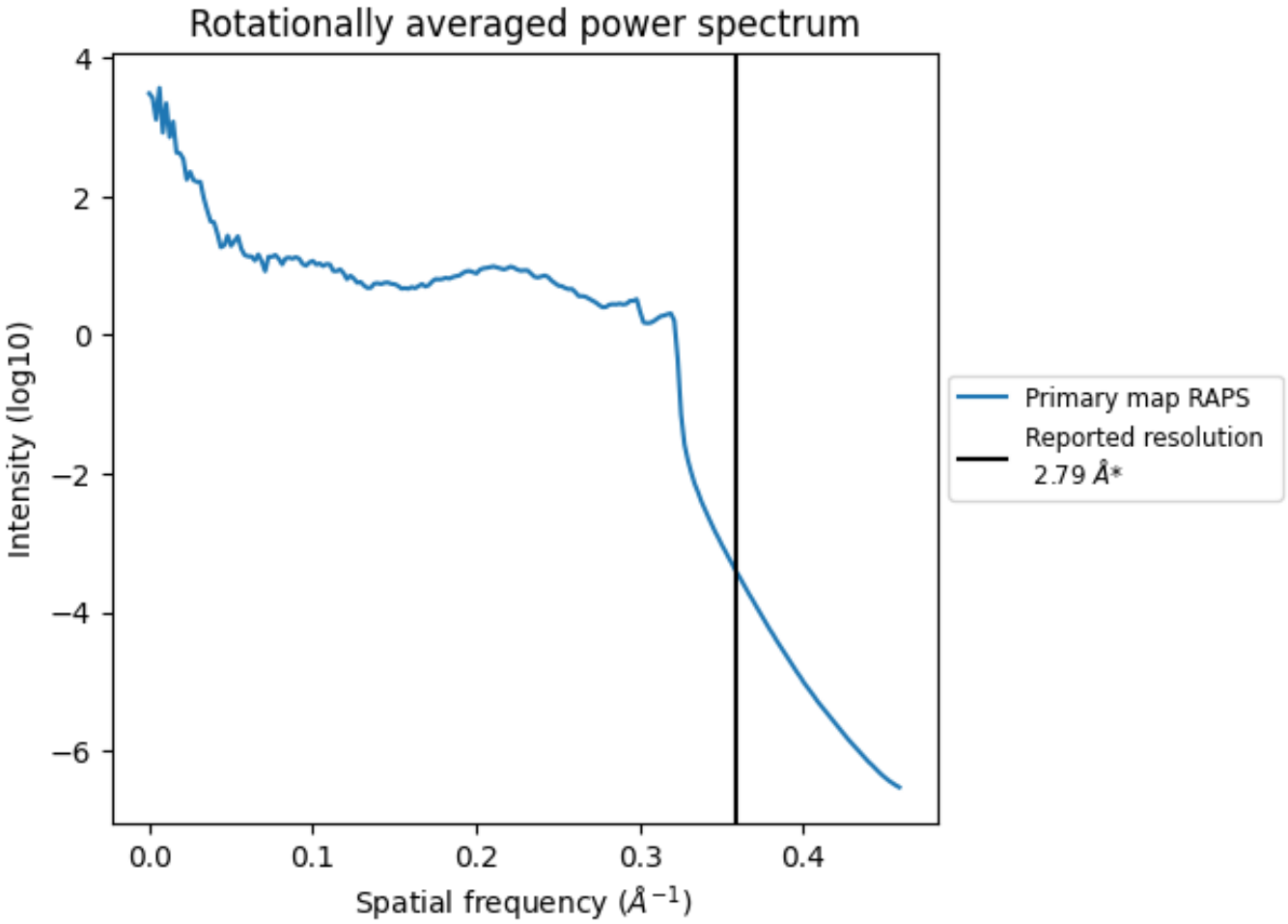
7.2 Volume estimate



The volume at the recommended contour level is 1737 nm^3; this corresponds to an approximate mass of 1569 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 0.358 Å^{-1}

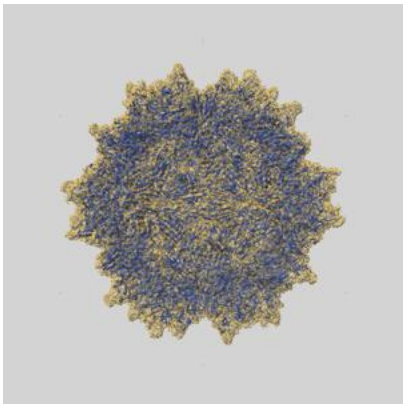
8 Fourier-Shell correlation

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

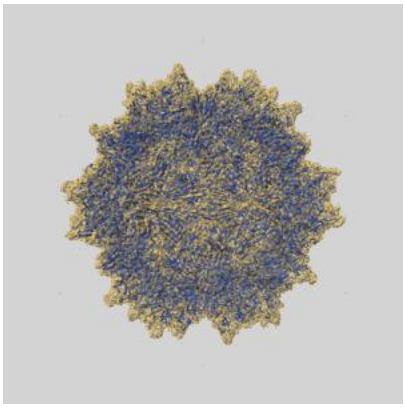
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-23993 and PDB model 7MTP. Per-residue inclusion information can be found in section 3 on page 10.

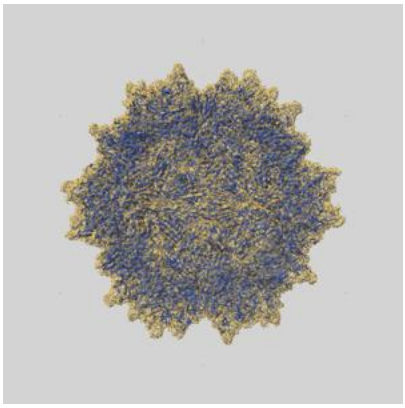
9.1 Map-model overlay



X



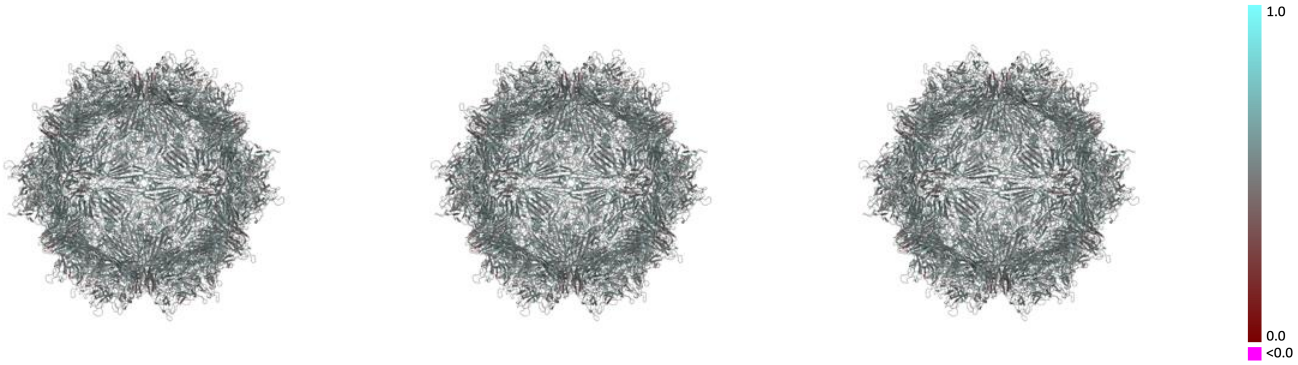
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0 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.

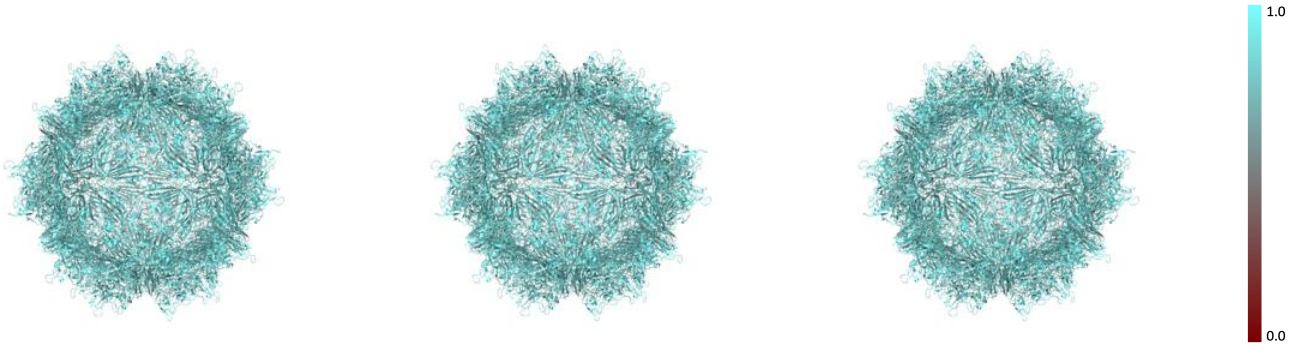
9.2 Q-score mapped to coordinate model (i)



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.

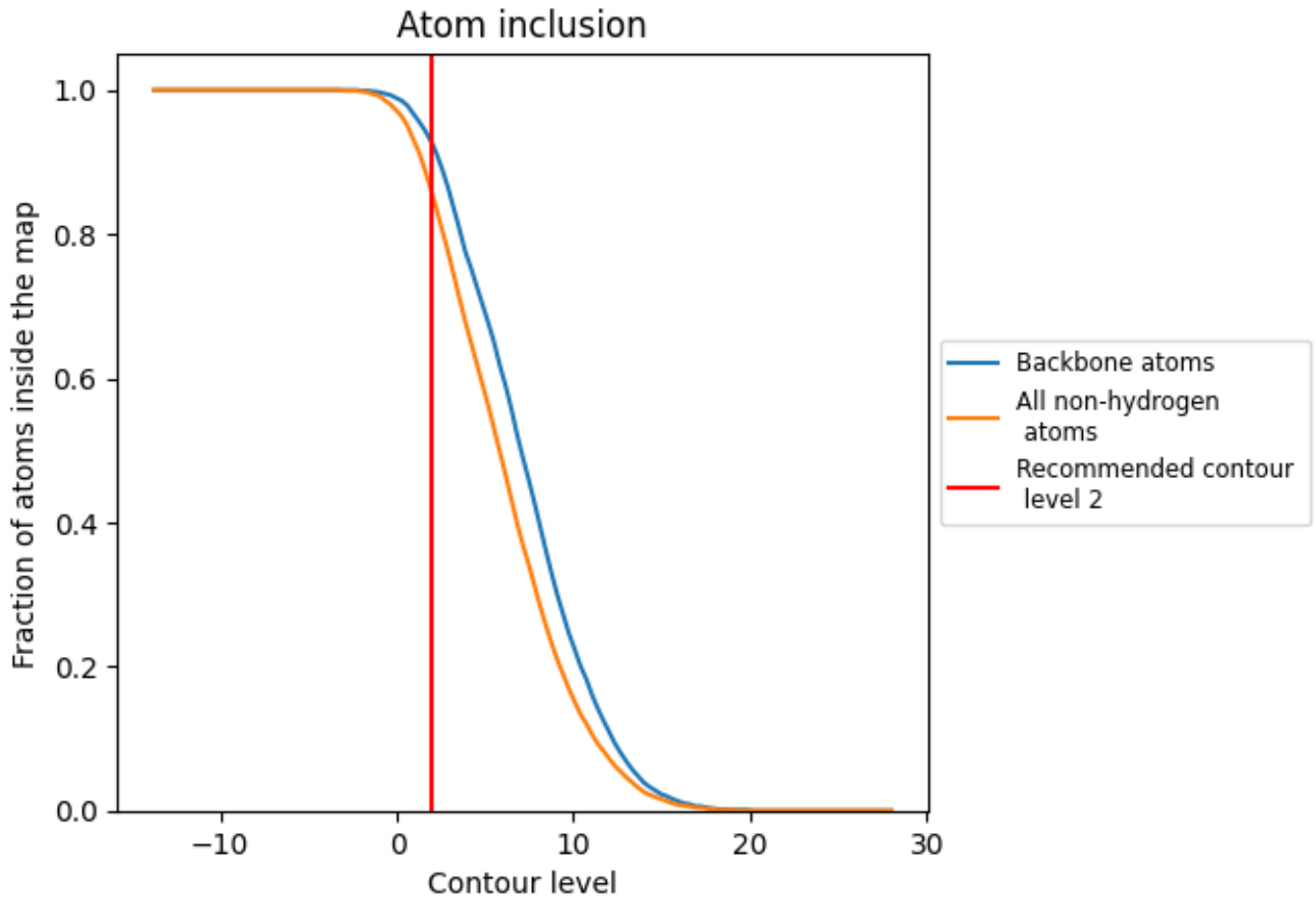
9.3 Atom inclusion mapped to coordinate model (i)



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 (2).

9.4 Atom inclusion (i)



At the recommended contour level, 93% of all backbone atoms, 86% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary (i)

The table lists the average atom inclusion at the recommended contour level (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8560	0.5180
1	0.8560	0.5180
2	0.8560	0.5190
3	0.8560	0.5190
4	0.8550	0.5180
5	0.8590	0.5180
6	0.8550	0.5190
7	0.8560	0.5190
8	0.8560	0.5170
A	0.8560	0.5170
B	0.8580	0.5170
C	0.8550	0.5180
D	0.8560	0.5180
E	0.8570	0.5190
F	0.8570	0.5190
G	0.8560	0.5170
H	0.8560	0.5150
I	0.8550	0.5170
J	0.8590	0.5170
K	0.8550	0.5180
L	0.8580	0.5170
M	0.8560	0.5180
N	0.8570	0.5180
O	0.8590	0.5170
P	0.8560	0.5180
Q	0.8570	0.5180
R	0.8560	0.5180
S	0.8560	0.5180
T	0.8560	0.5170
U	0.8550	0.5180
V	0.8590	0.5200
W	0.8550	0.5160
X	0.8590	0.5180
Y	0.8560	0.5170
Z	0.8570	0.5180

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Chain	Atom inclusion	Q-score
a	0.8560	0.5180
b	0.8560	0.5170
c	0.8570	0.5170
d	0.8570	0.5180
e	0.8560	0.5190
f	0.8560	0.5180
g	0.8580	0.5170
h	0.8590	0.5190
i	0.8570	0.5190
j	0.8570	0.5180
k	0.8560	0.5160
l	0.8550	0.5160
m	0.8560	0.5170
n	0.8590	0.5180
o	0.8590	0.5180
p	0.8590	0.5190
q	0.8560	0.5170
r	0.8560	0.5160
s	0.8550	0.5170
t	0.8560	0.5180
u	0.8550	0.5180
v	0.8560	0.5190
w	0.8570	0.5170
x	0.8560	0.5180
y	0.8550	0.5180
z	0.8560	0.5190