



Full wwPDB EM Validation Report ⓘ

Mar 19, 2026 – 09:42 PM UTC

PDB ID : 7MTW / pdb_00007mtw
EMDB ID : EMD-23999
Title : Structure of the adeno-associated virus 9 capsid at pH 4.0
Authors : Penzes, J.J.; Chipman, P.; Bhattacharya, N.; Zeher, A.; Huang, R.; McKenna, R.; Agbandje-McKenna, M.
Deposited on : 2021-05-13
Resolution : 2.99 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.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

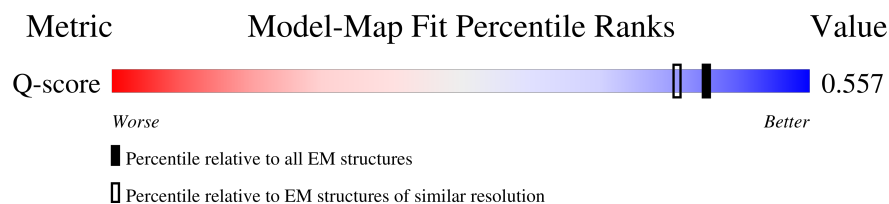
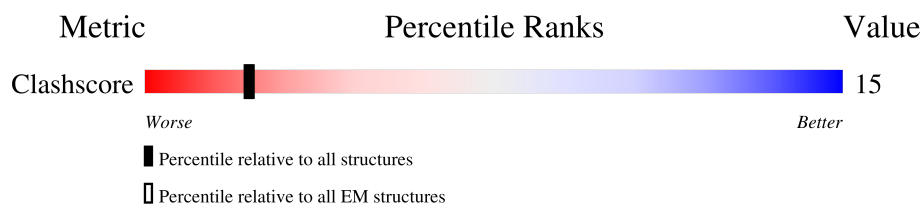
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

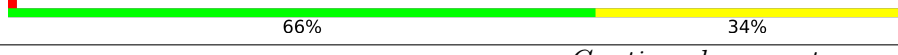
The reported resolution of this entry is 2.99 Å.

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



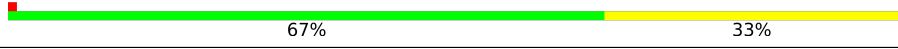
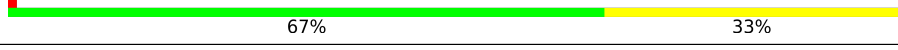
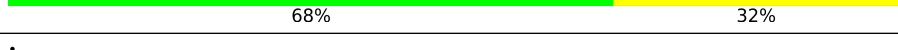
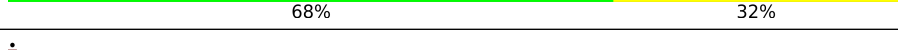
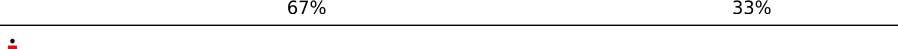
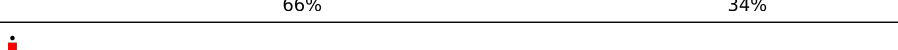
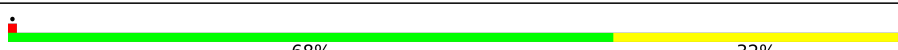
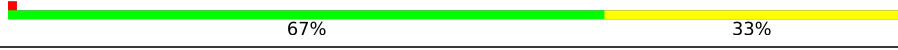
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Q-score	-	25397	13287 (2.49 - 3.49)

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

Mol	Chain	Length	Quality of chain
1	1	518	 68% 32%
1	2	518	 68% 32%
1	3	518	 68% 32%
1	4	518	 67% 33%
1	5	518	 67% 33%
1	7	518	 66% 34%

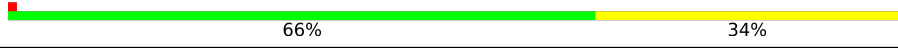
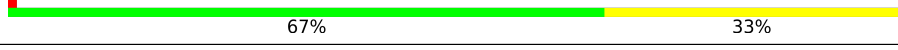
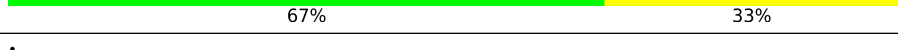
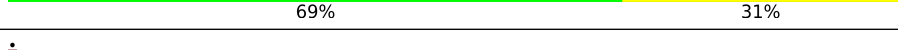
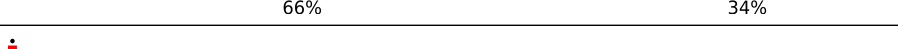
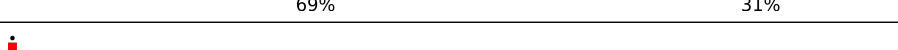
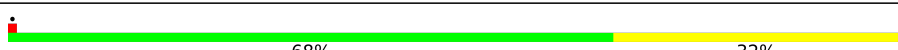
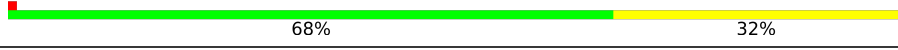
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Mol	Chain	Length	Quality of chain
1	8	518	
1	A	518	
1	B	518	
1	C	518	
1	D	518	
1	E	518	
1	F	518	
1	G	518	
1	H	518	
1	I	518	
1	J	518	
1	K	518	
1	L	518	
1	M	518	
1	N	518	
1	O	518	
1	P	518	
1	Q	518	
1	R	518	
1	S	518	
1	T	518	
1	U	518	
1	V	518	
1	W	518	
1	X	518	

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Mol	Chain	Length	Quality of chain
1	Y	518	
1	Z	518	
1	a	518	
1	b	518	
1	c	518	
1	d	518	
1	e	518	
1	f	518	
1	g	518	
1	h	518	
1	i	518	
1	j	518	
1	k	518	
1	l	518	
1	m	518	
1	n	518	
1	o	518	
1	p	518	
1	q	518	
1	r	518	
1	s	518	
1	t	518	
1	u	518	
1	v	518	
1	w	518	

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Mol	Chain	Length	Quality of chain
1	x	518	 67%33%
1	y	518	 67%33%
1	z	518	 68%32%

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 243729 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 4131	C 2608	N 718	O 791	S 14	0	0
1	S	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	T	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	U	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	V	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	W	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	X	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	Y	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	Z	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	1	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	2	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	3	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	4	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	5	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
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

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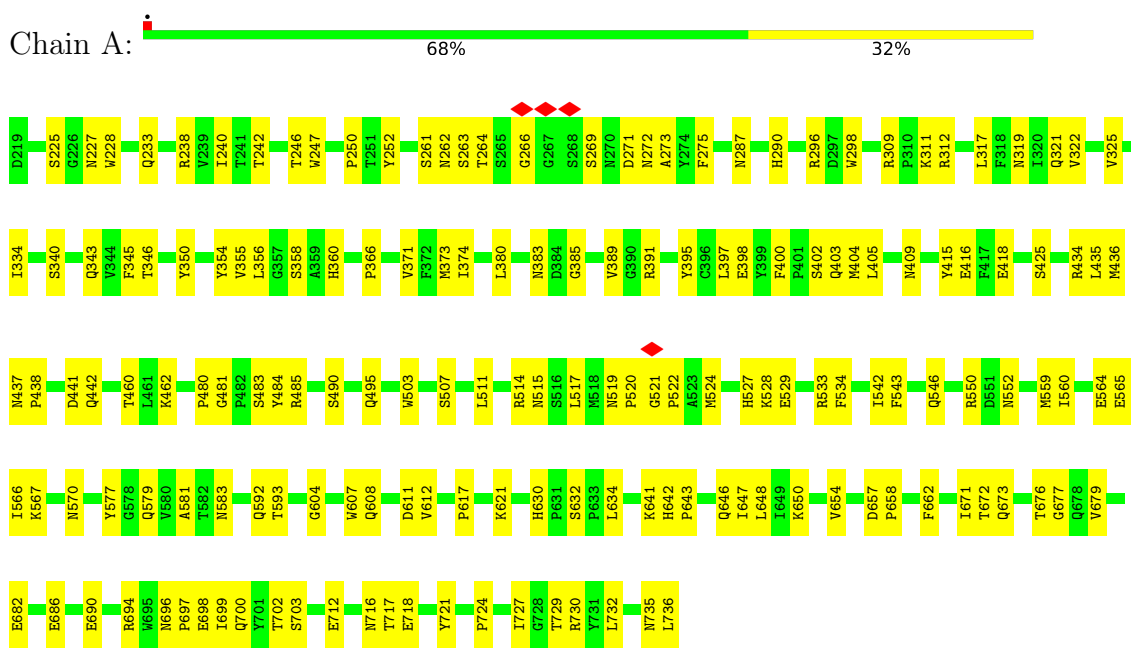
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	h	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	i	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	j	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	k	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	l	518	Total 4131	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
1	r	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	s	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	t	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	u	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	v	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	w	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	x	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	y	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	z	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	7	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	8	518	Total 4131	C 2608	N 718	O 791	S 14	0	0

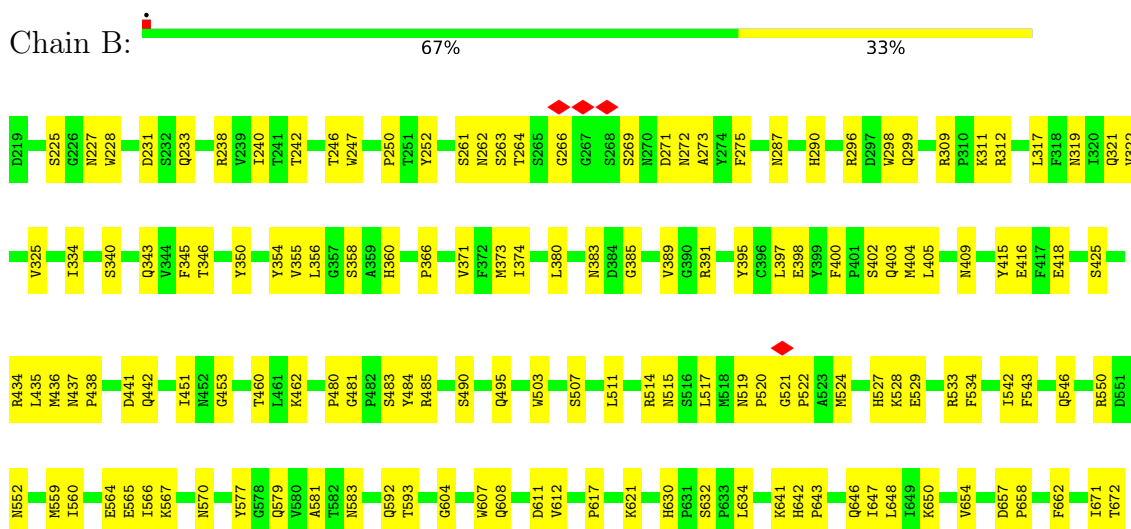
3 Residue-property plots

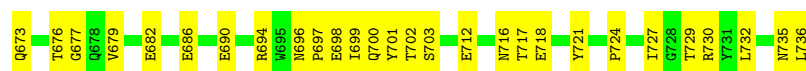
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: Capsid protein VP1

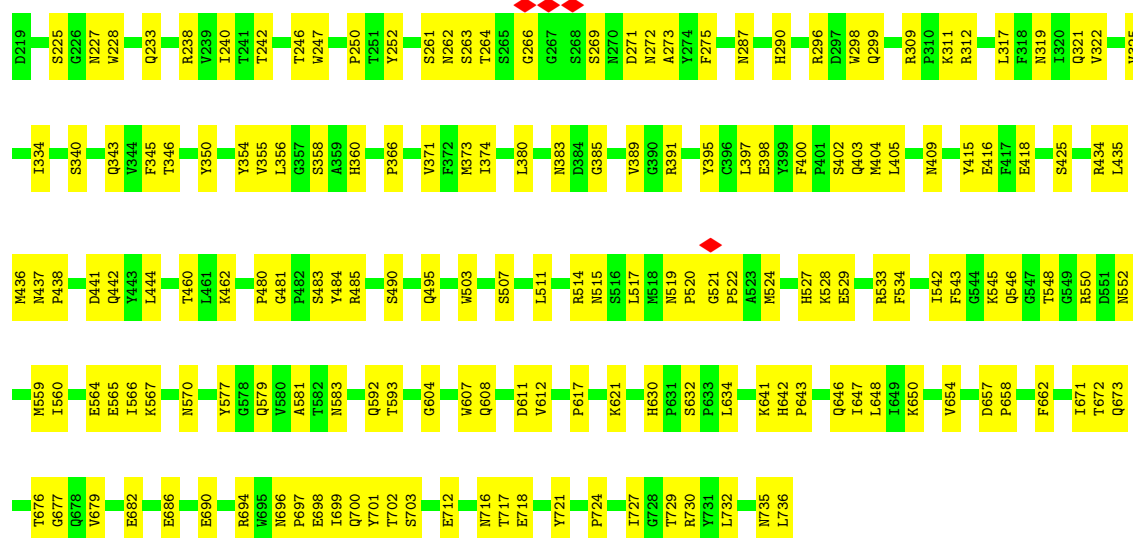


• Molecule 1: Capsid protein VP1

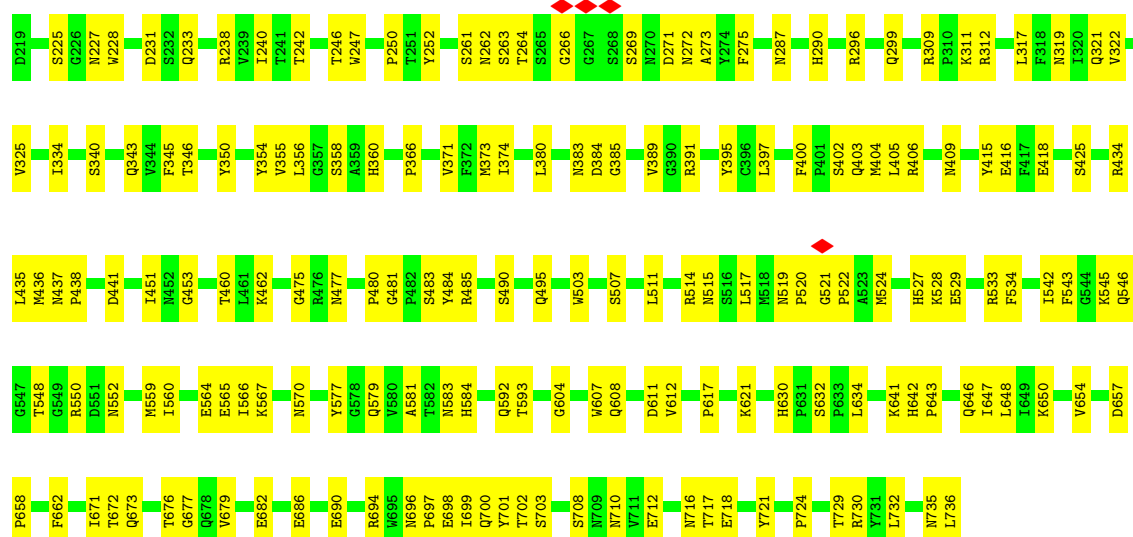




• Molecule 1: Capsid protein VP1

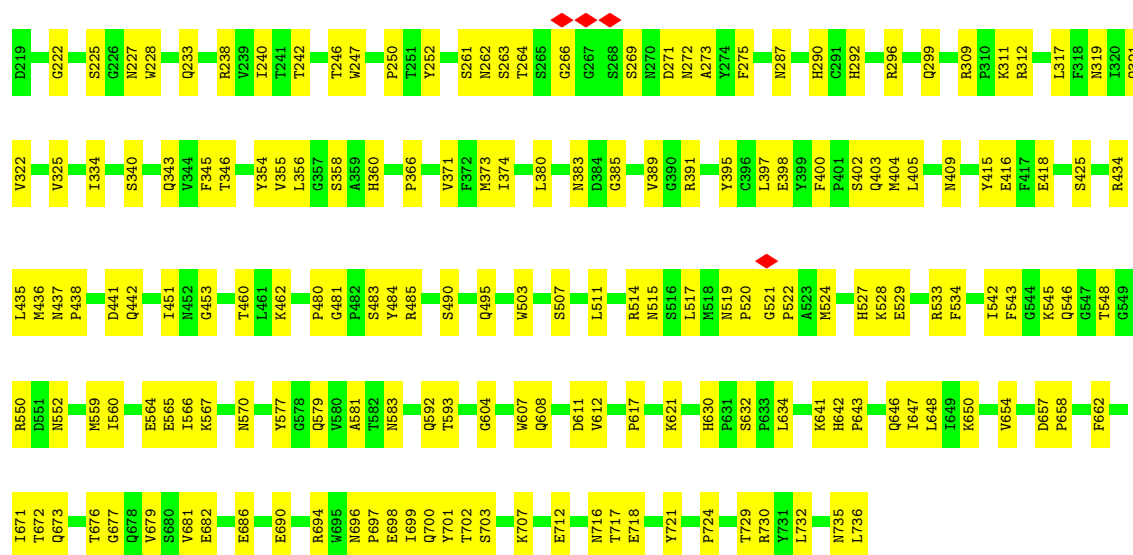


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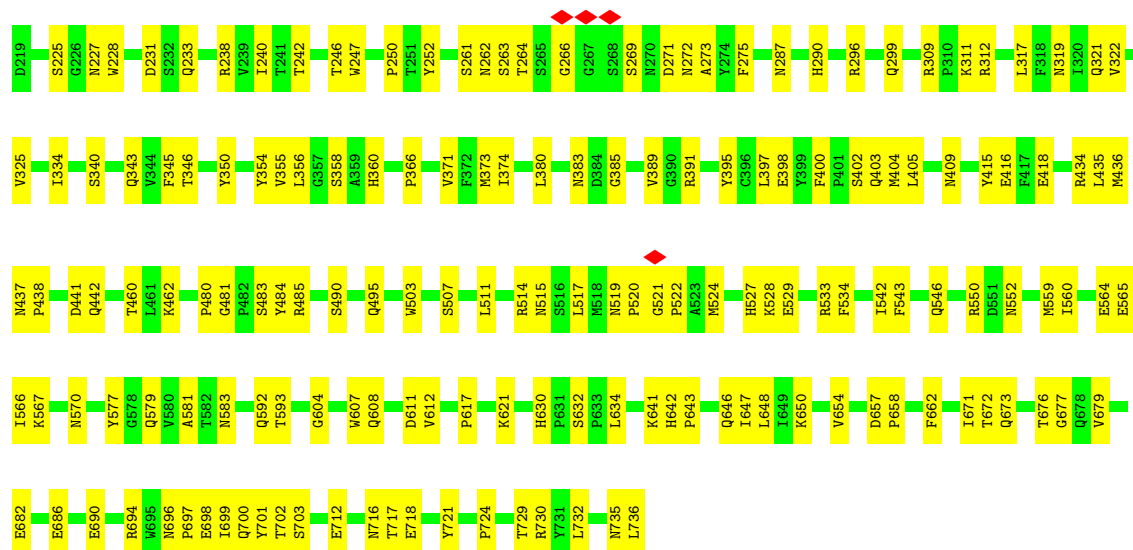


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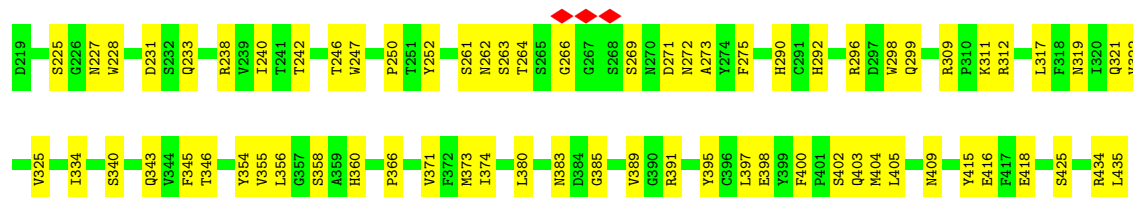


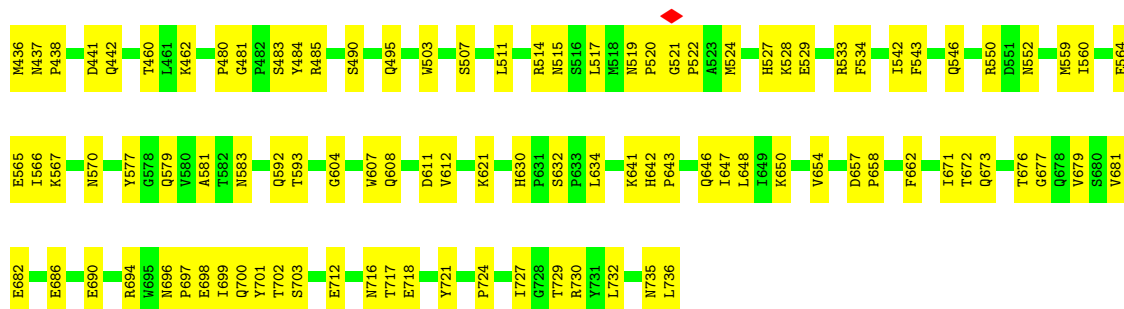


- Molecule 1: Capsid protein VP1

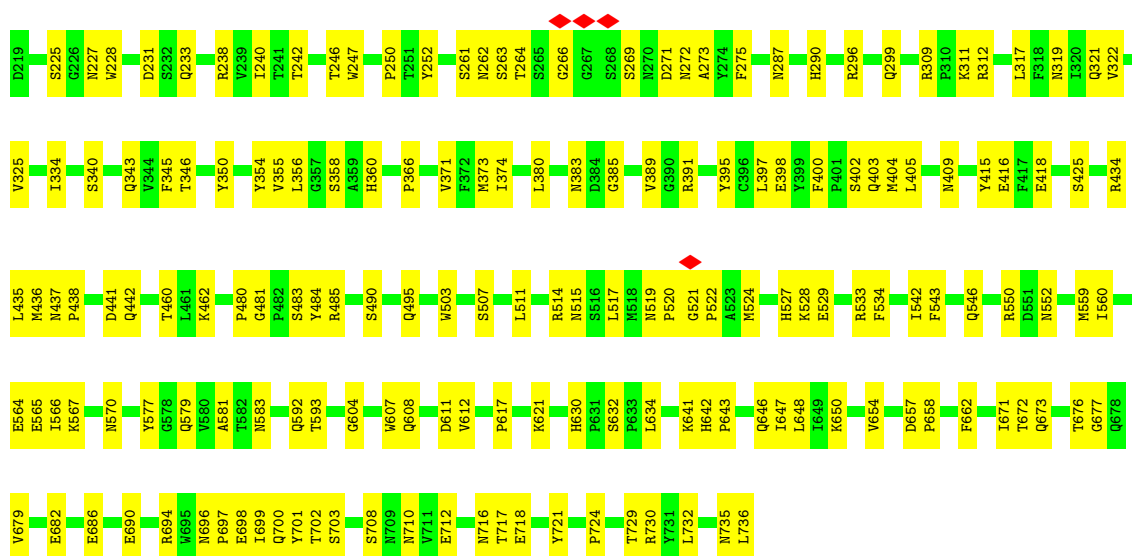


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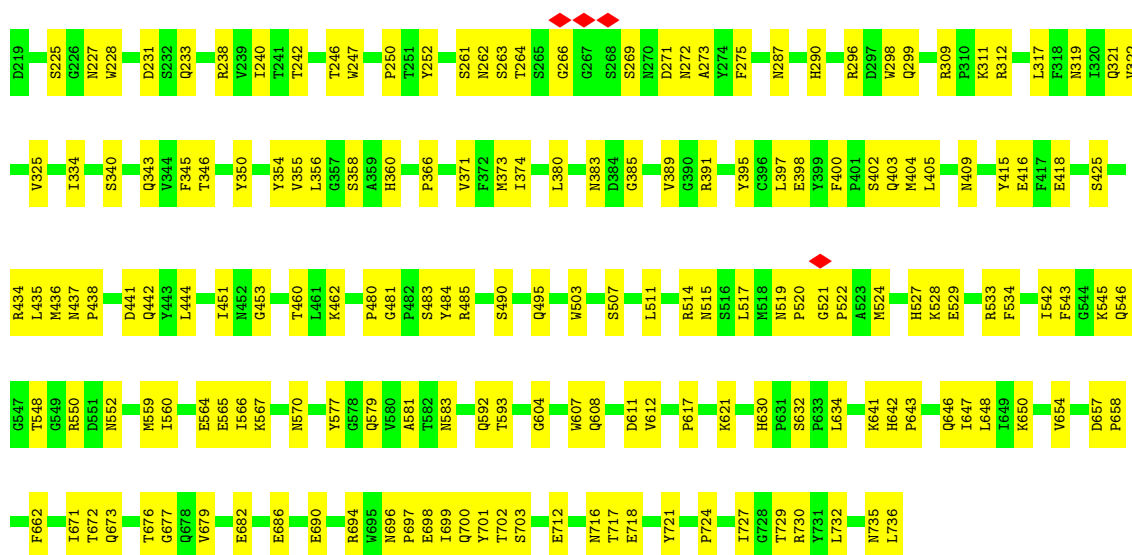




• Molecule 1: Capsid protein VP1



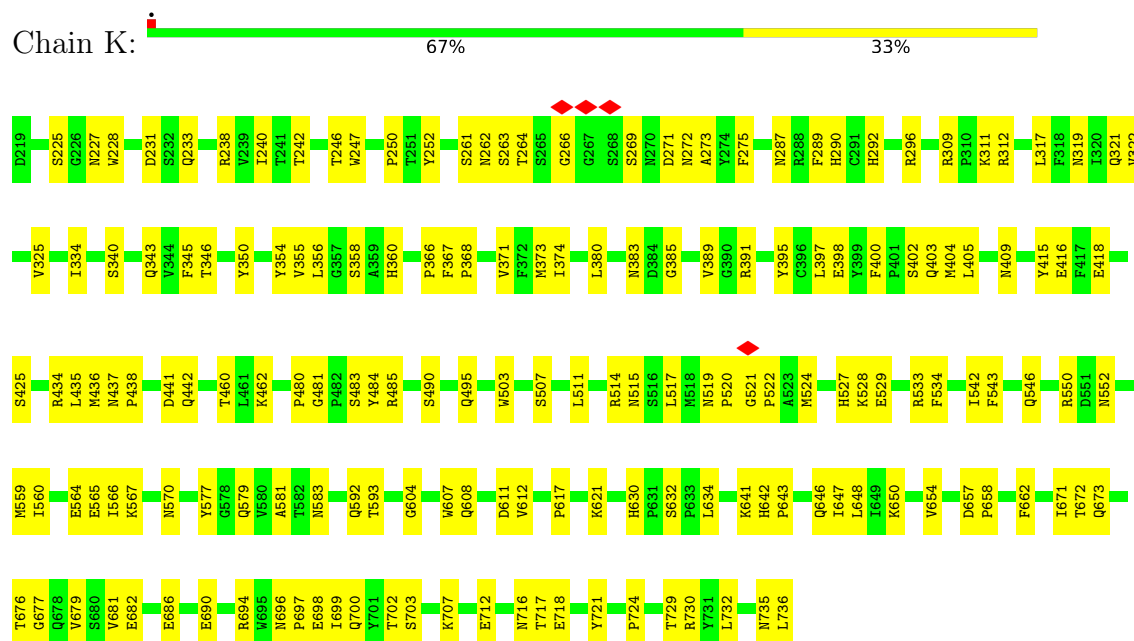
• Molecule 1: Capsid protein VP1



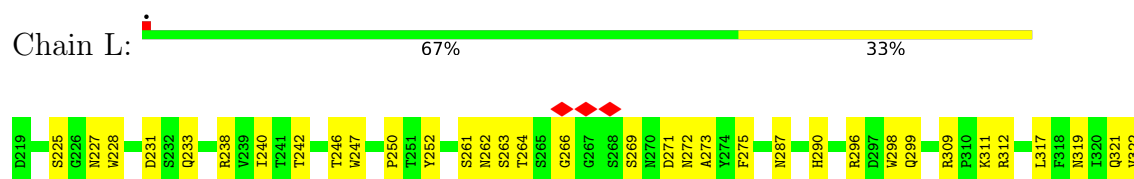
- Molecule 1: Capsid protein VP1

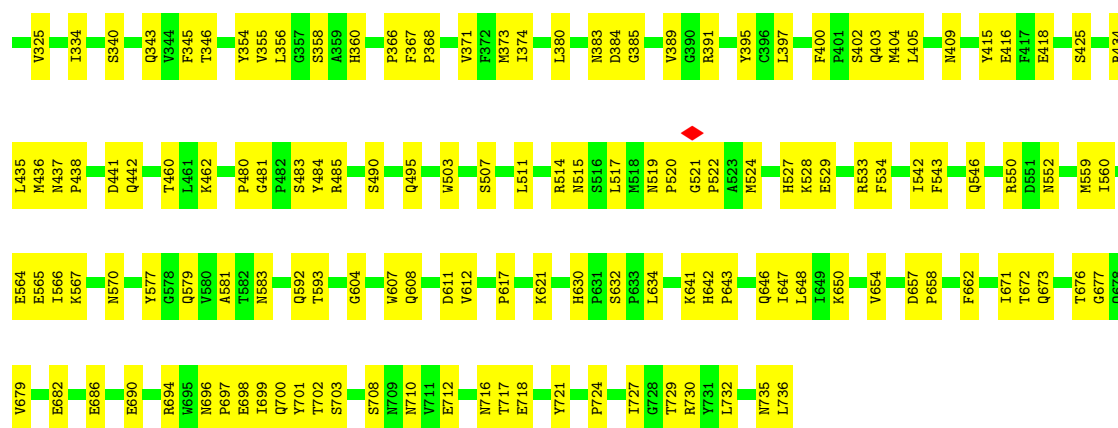


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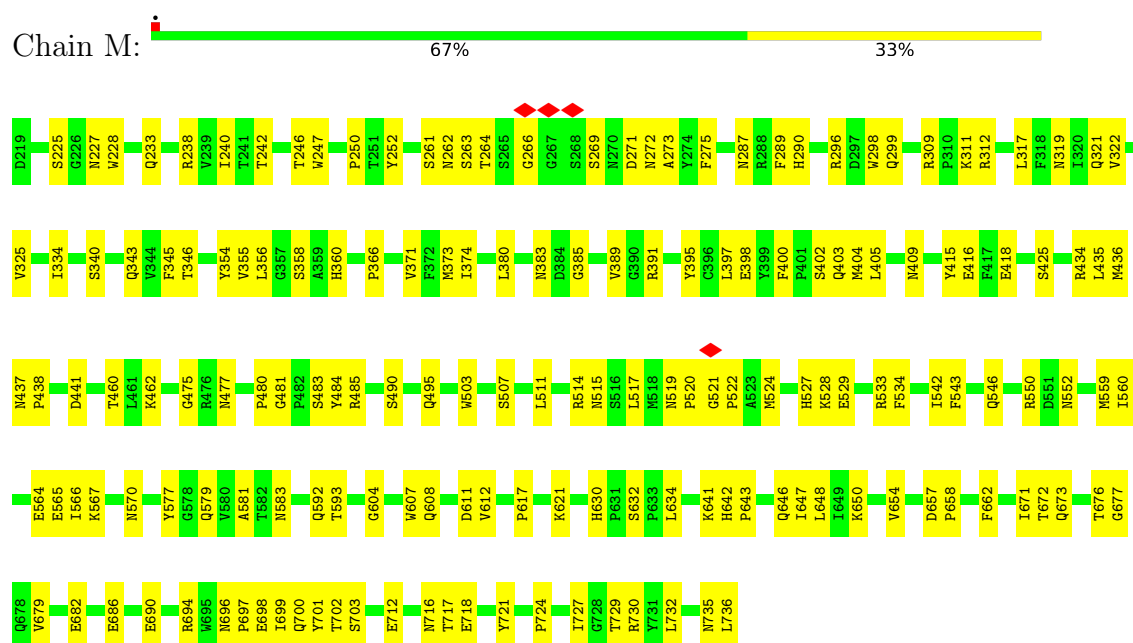


- Molecule 1: Capsid protein VP1



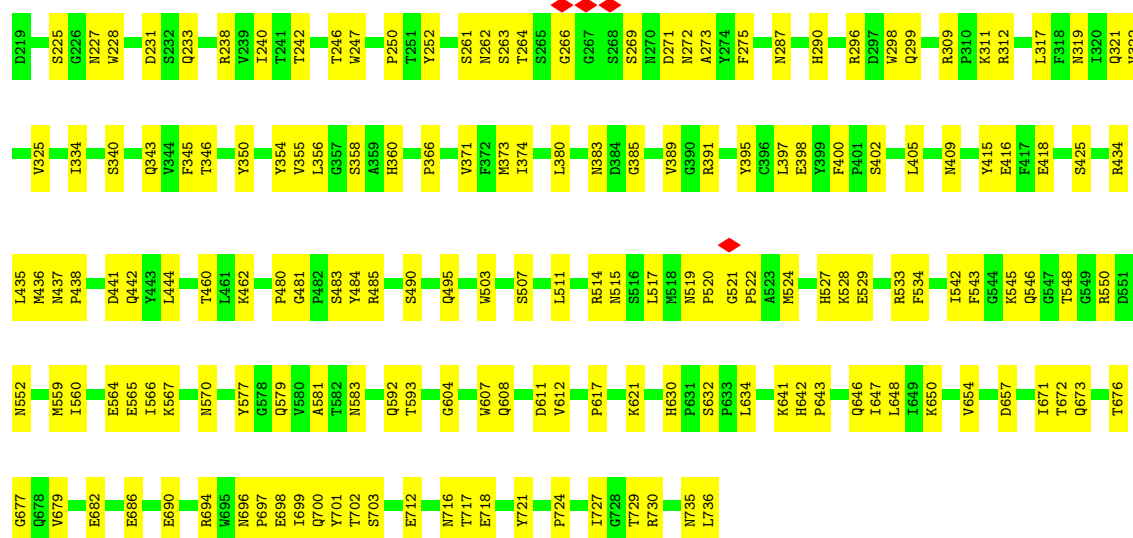


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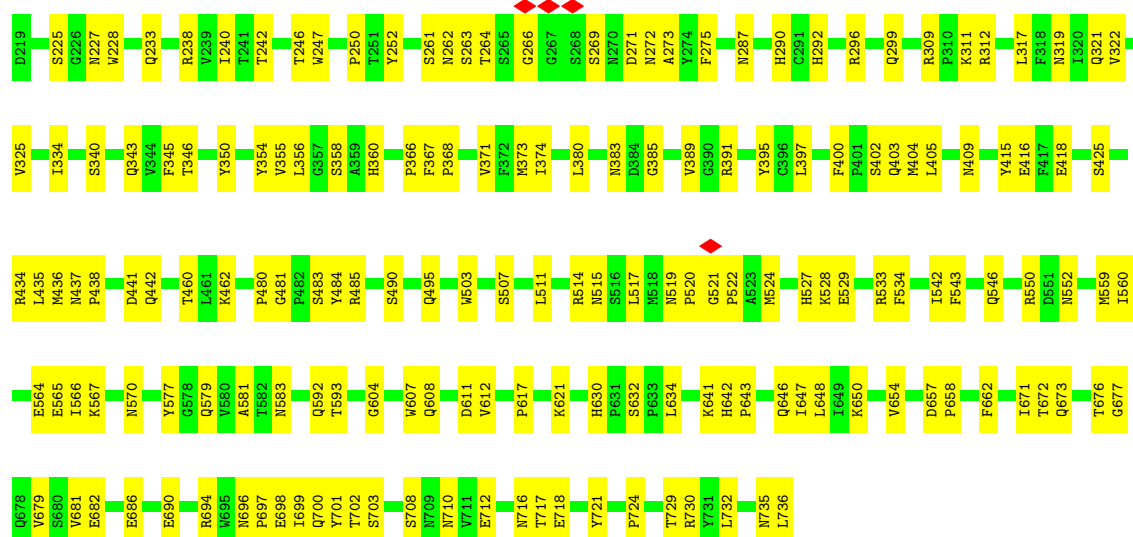




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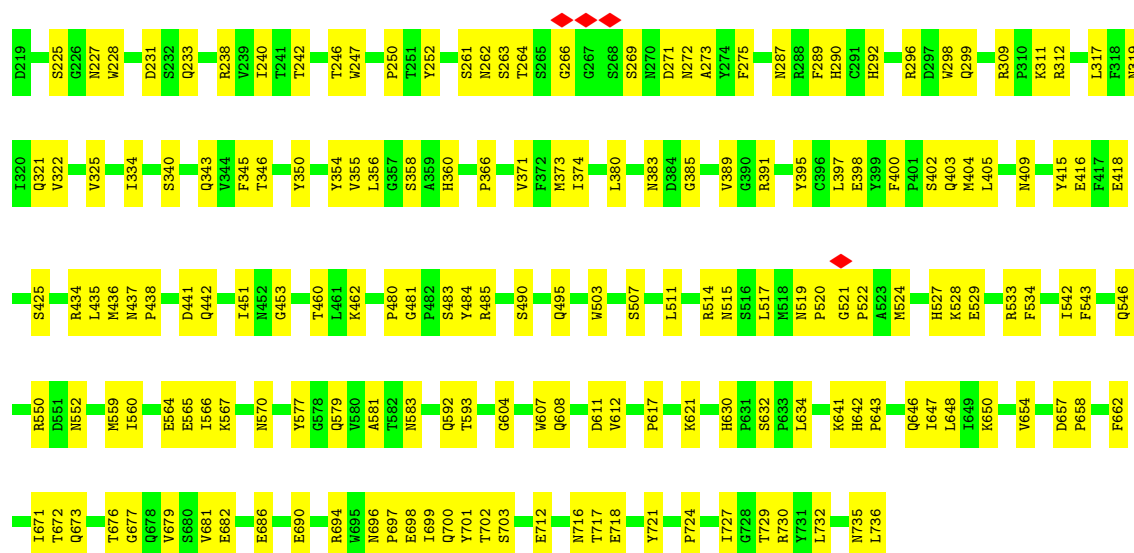


• Molecule 1: Capsid protein VP1

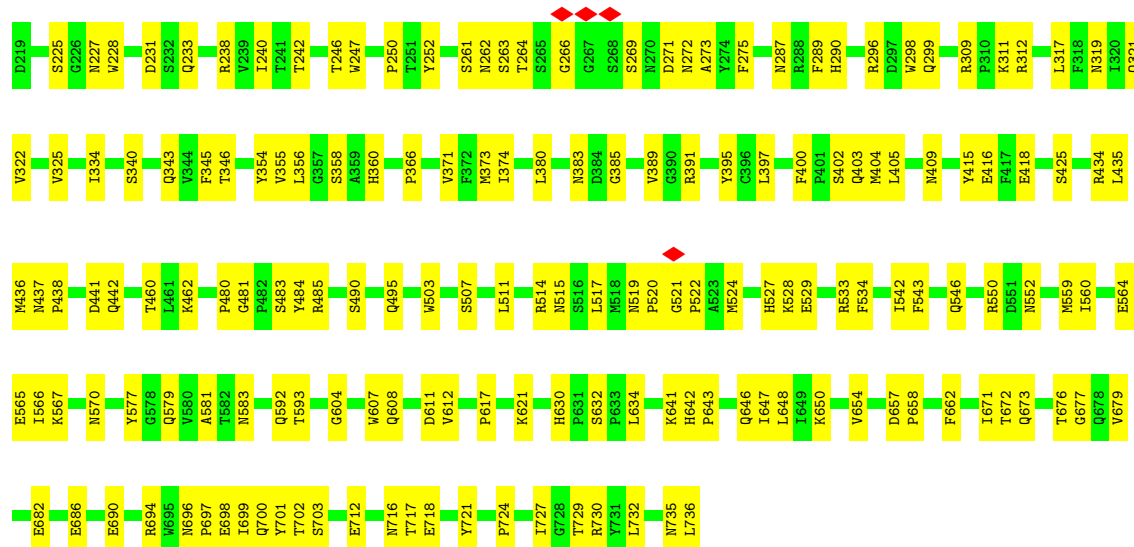


• Molecule 1: Capsid protein VP1

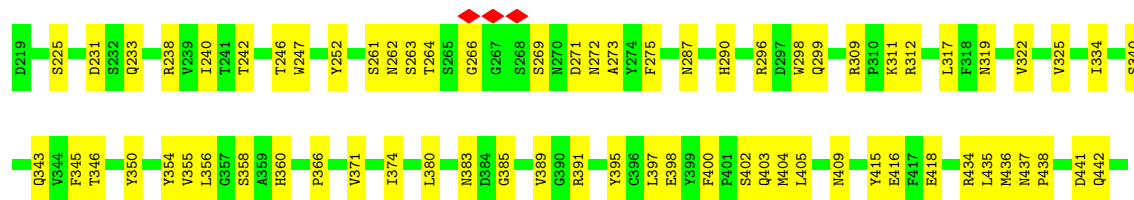


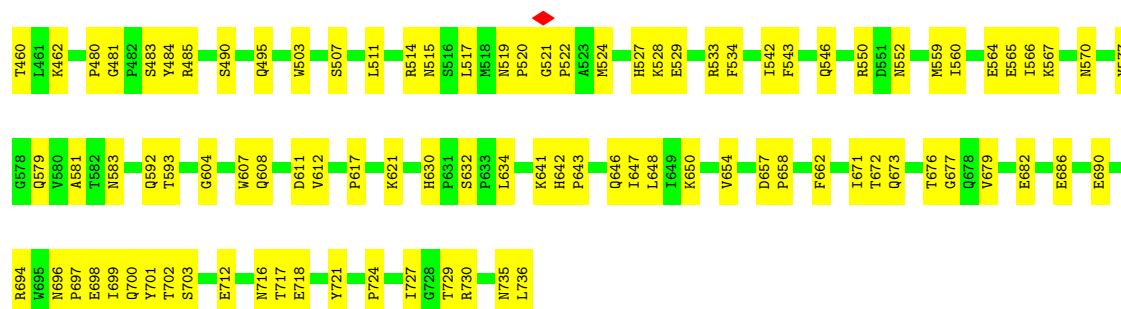


- Molecule 1: Capsid protein VP1

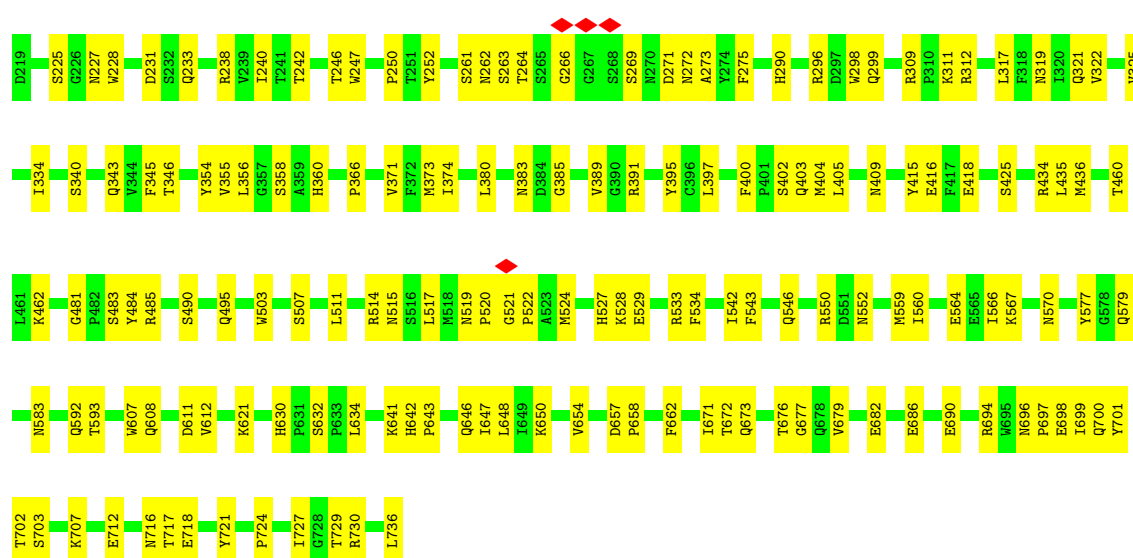


- Molecule 1: Capsid protein VP1

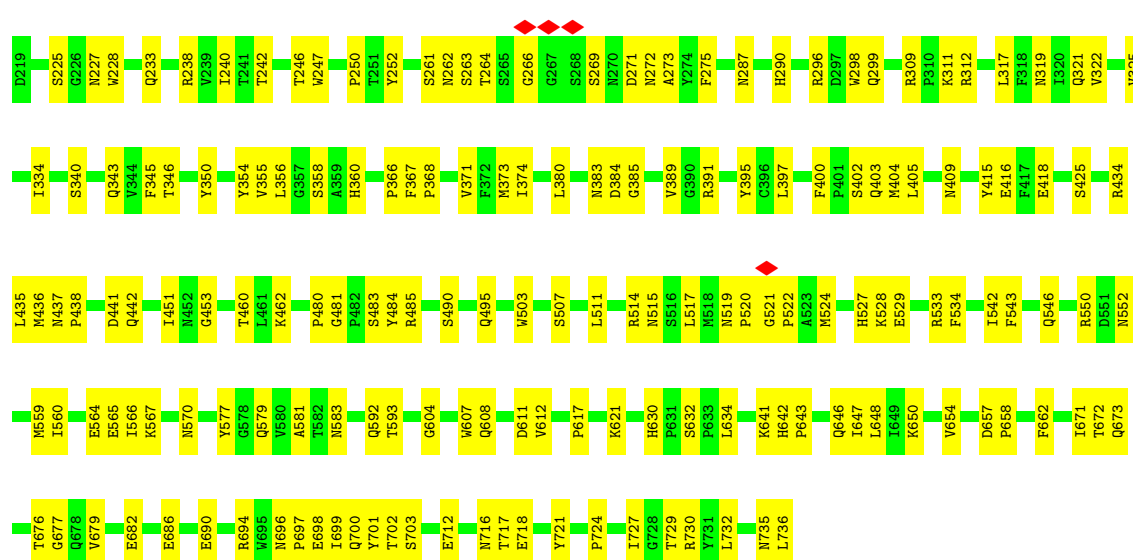




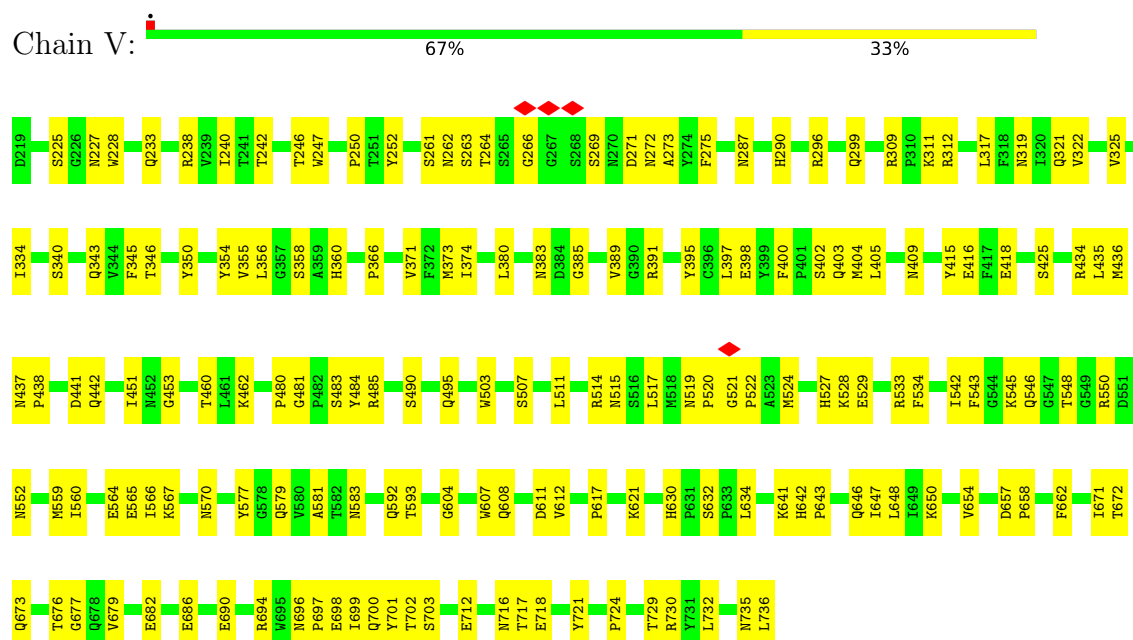
• Molecule 1: Capsid protein VP1



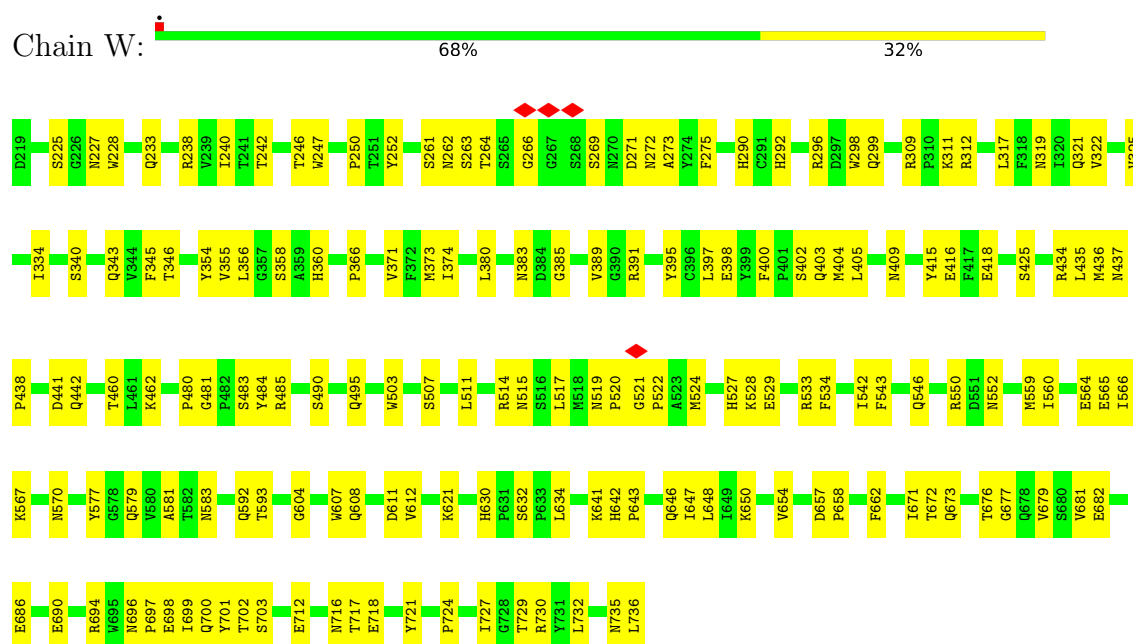
• Molecule 1: Capsid protein VP1



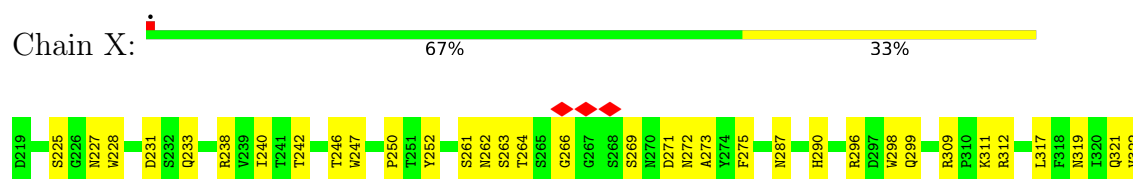
- Molecule 1: Capsid protein VP1

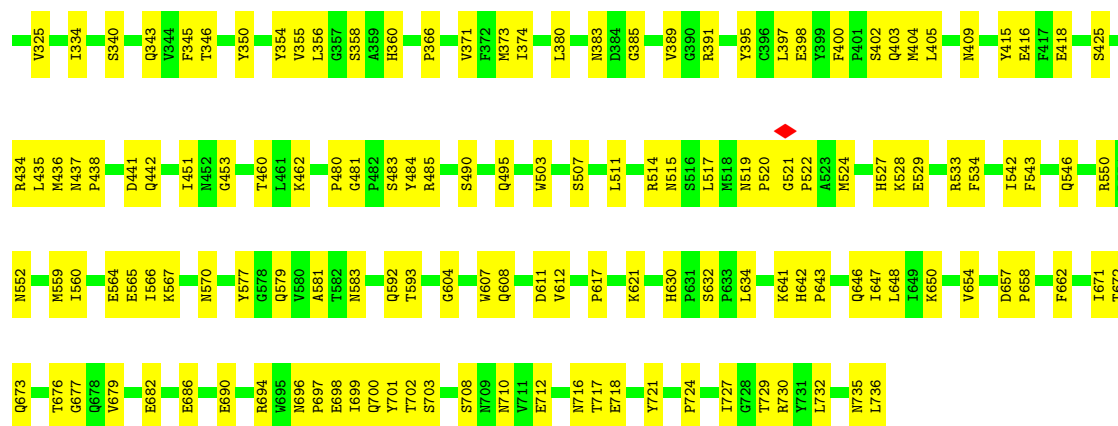


- Molecule 1: Capsid protein VP1

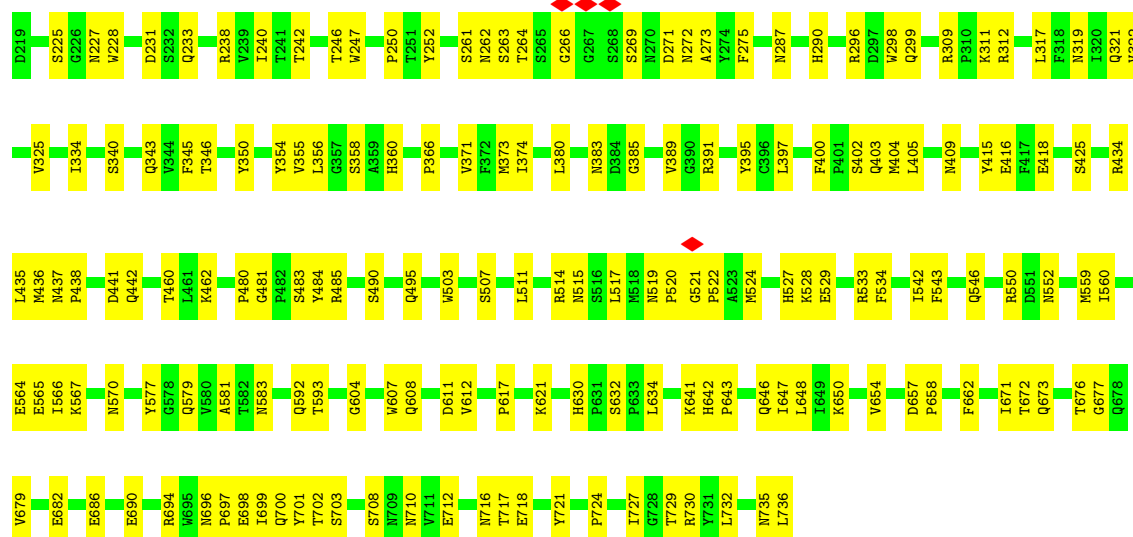


- Molecule 1: Capsid protein VP1

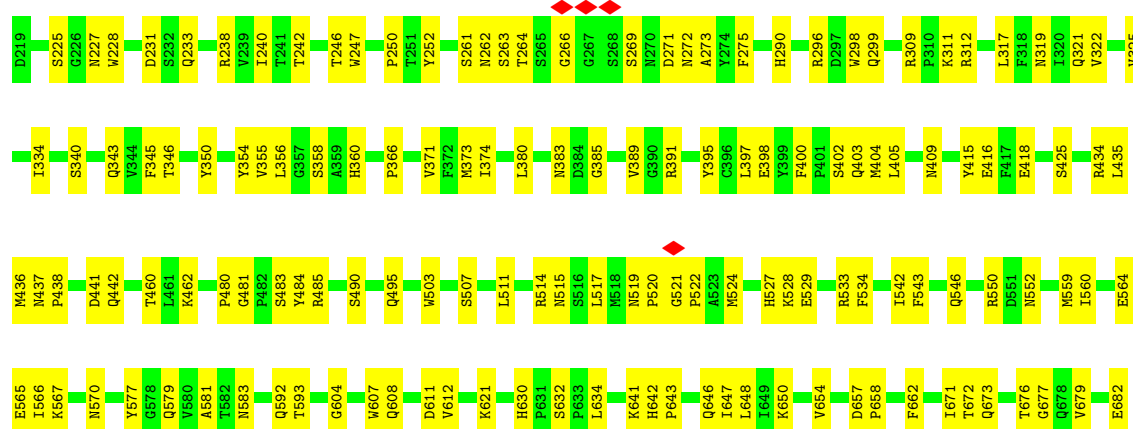




• Molecule 1: Capsid protein VP1

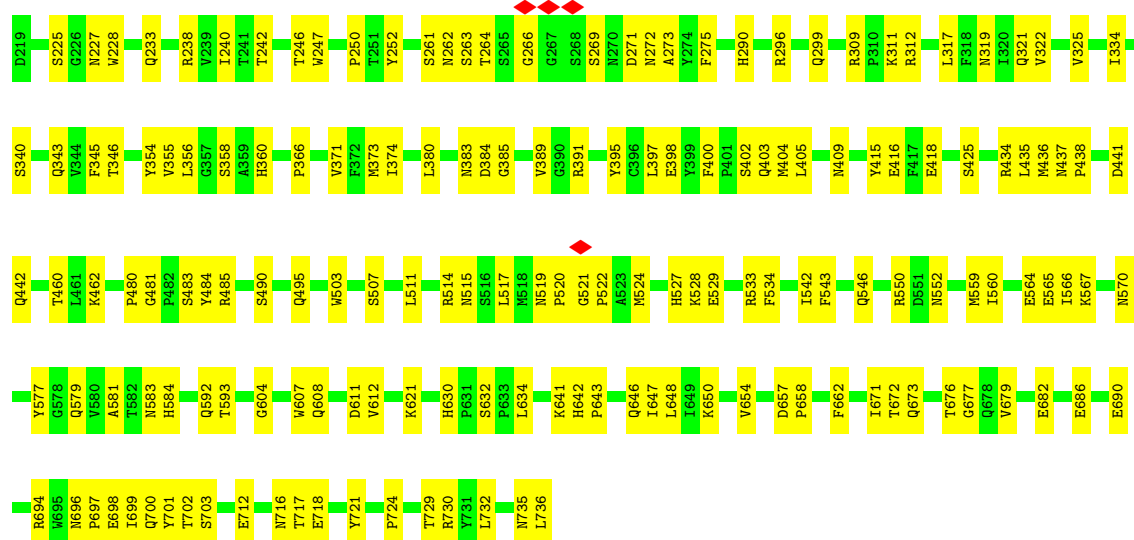


• Molecule 1: Capsid protein VP1

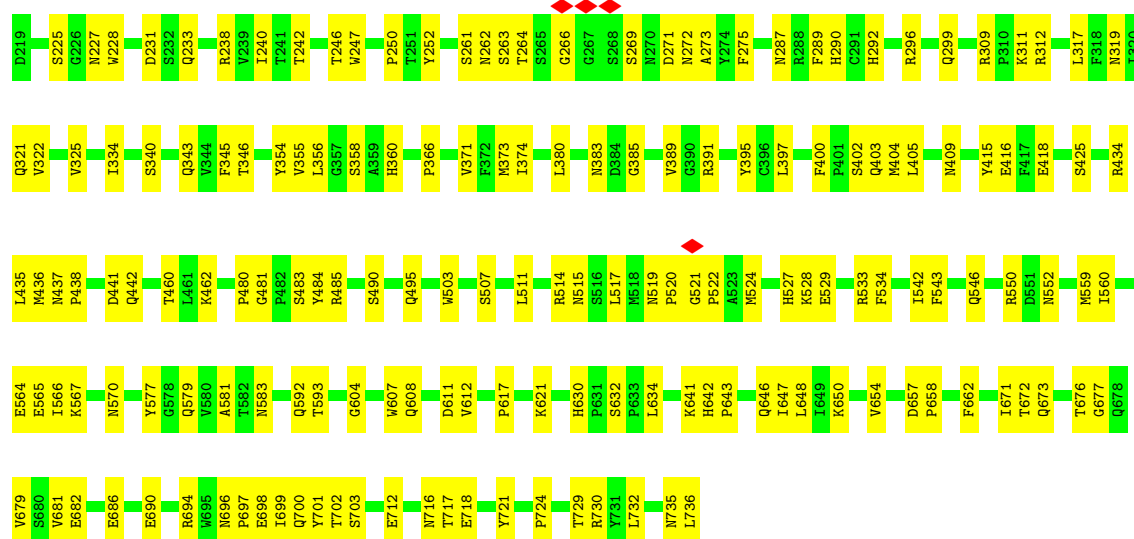




• Molecule 1: Capsid protein VP1

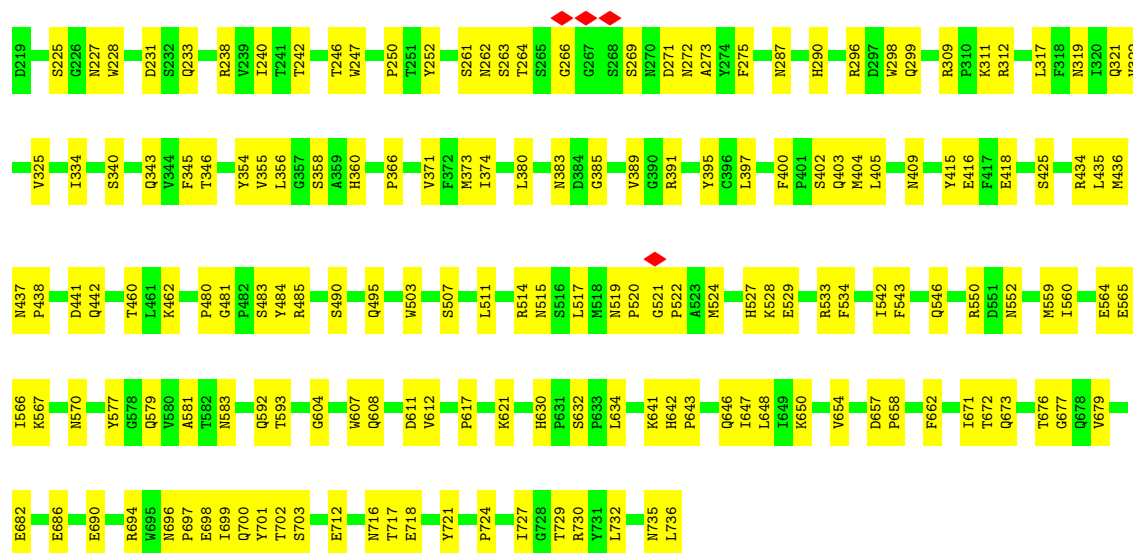


• Molecule 1: Capsid protein VP1

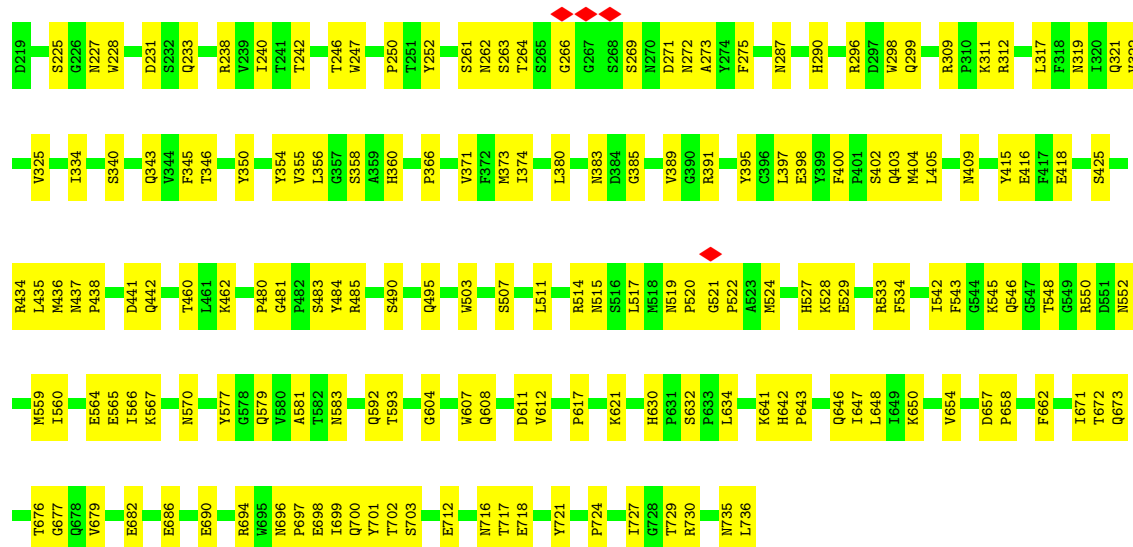


• Molecule 1: Capsid protein VP1

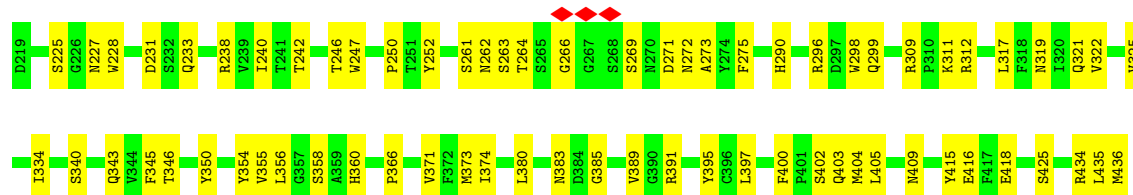


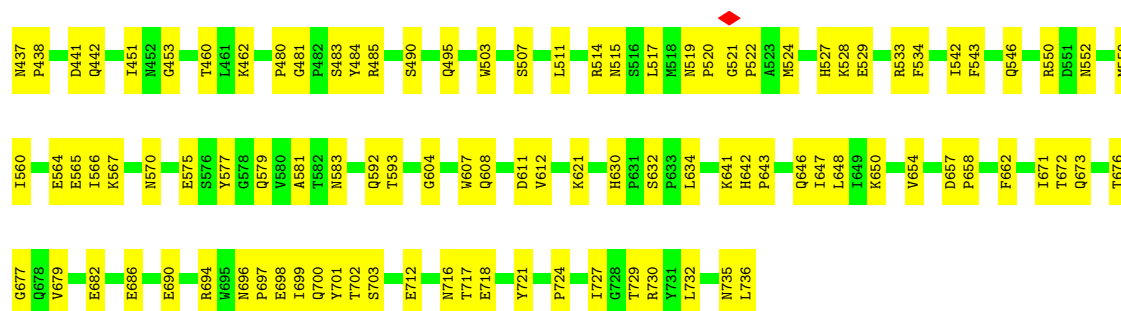


- Molecule 1: Capsid protein VP1

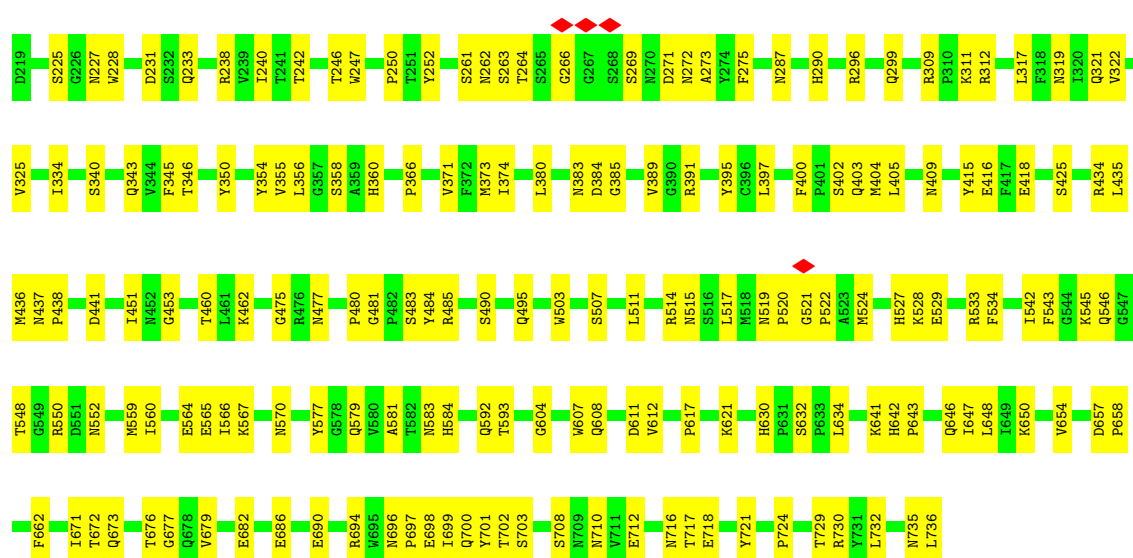


- Molecule 1: Capsid protein VP1

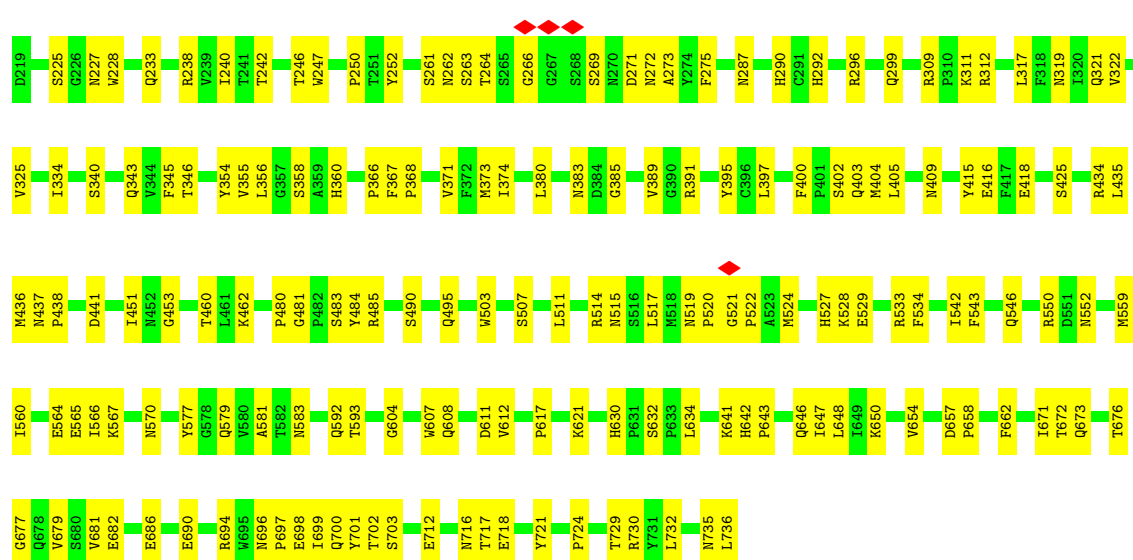




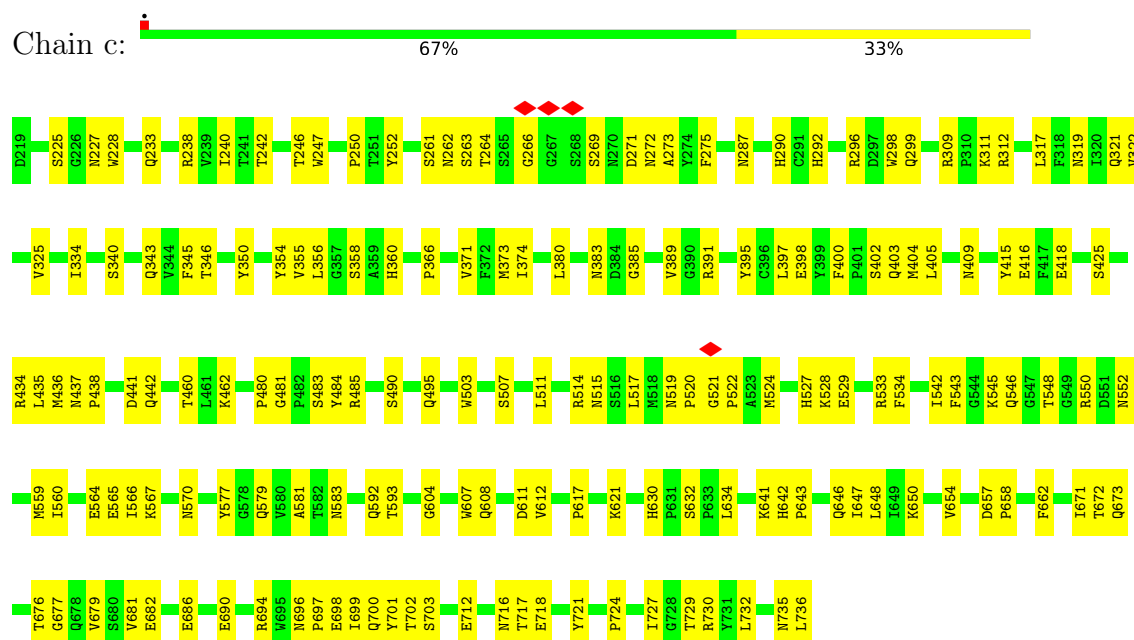
• Molecule 1: Capsid protein VP1



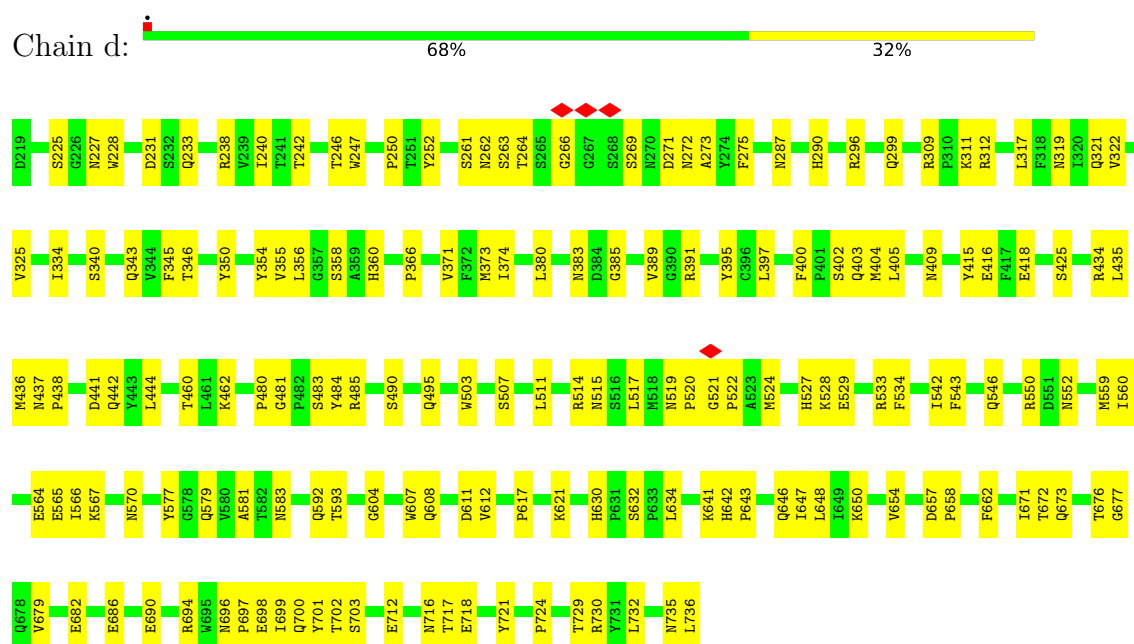
• Molecule 1: Capsid protein VP1



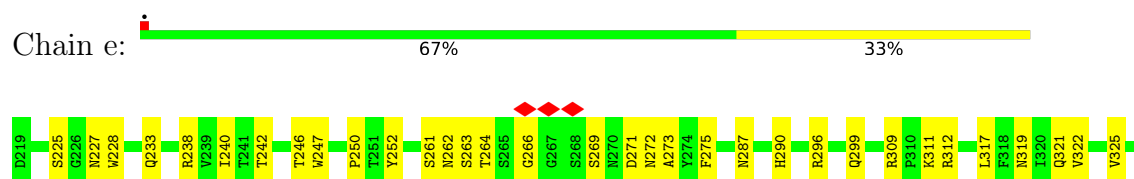
- Molecule 1: Capsid protein VP1

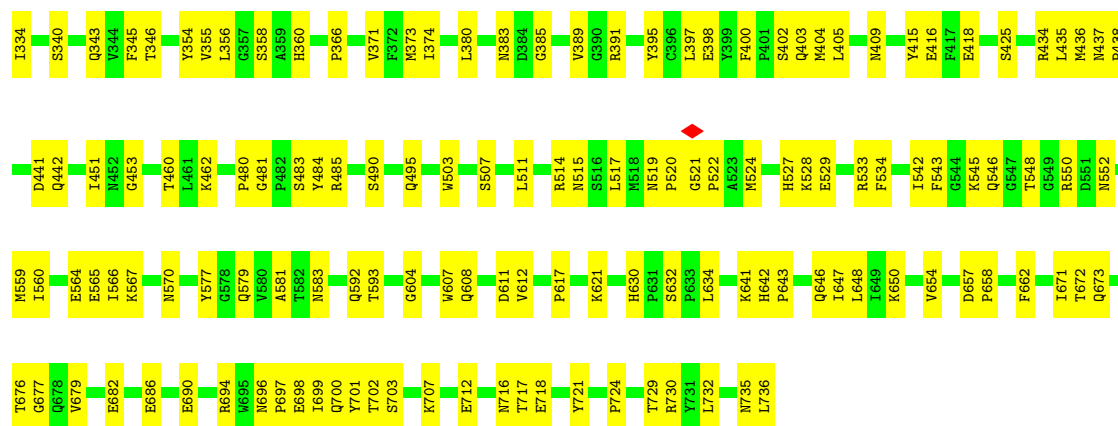


- Molecule 1: Capsid protein VP1

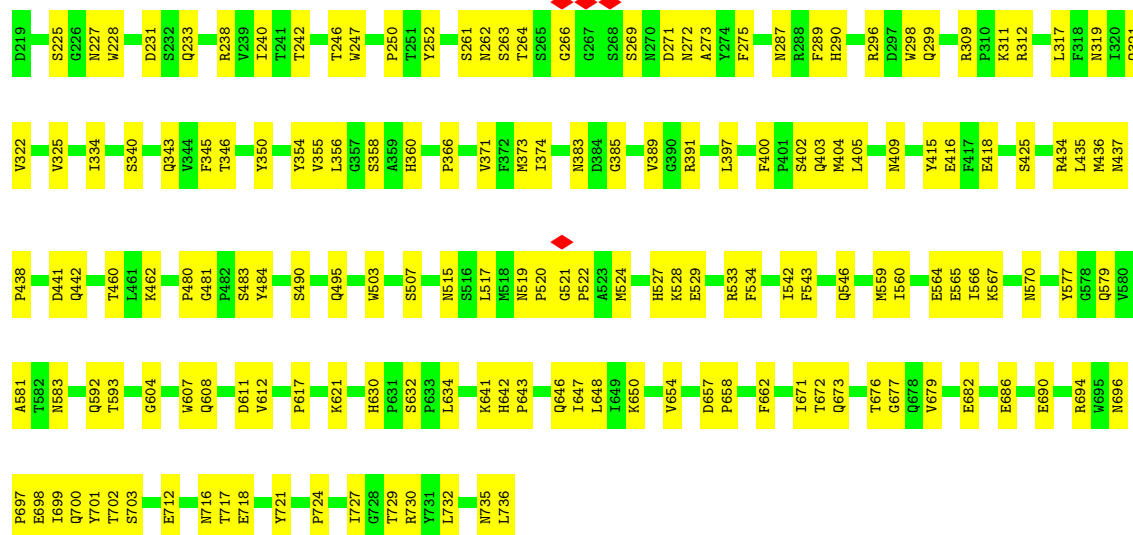


- Molecule 1: Capsid protein VP1

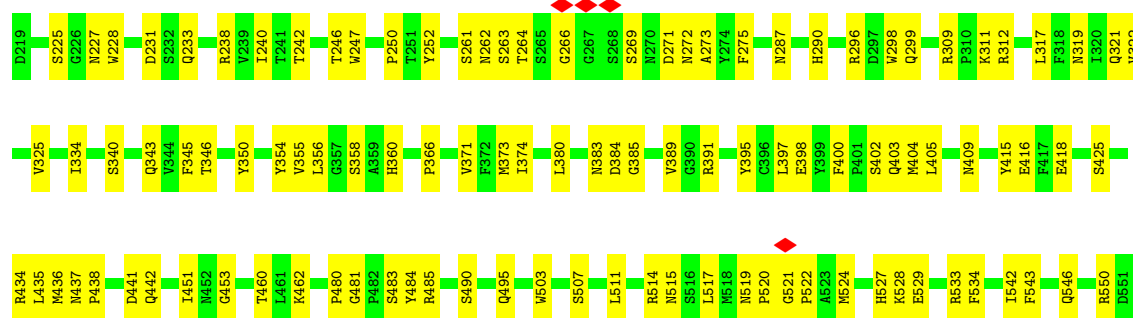


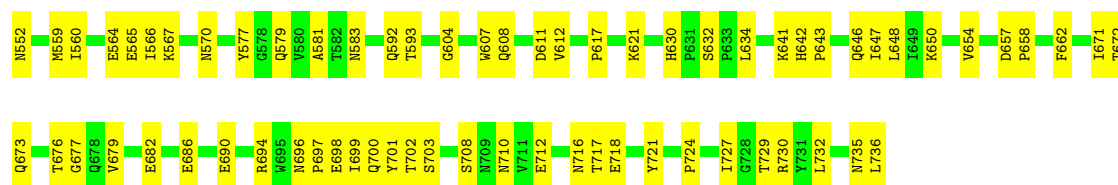


• Molecule 1: Capsid protein VP1

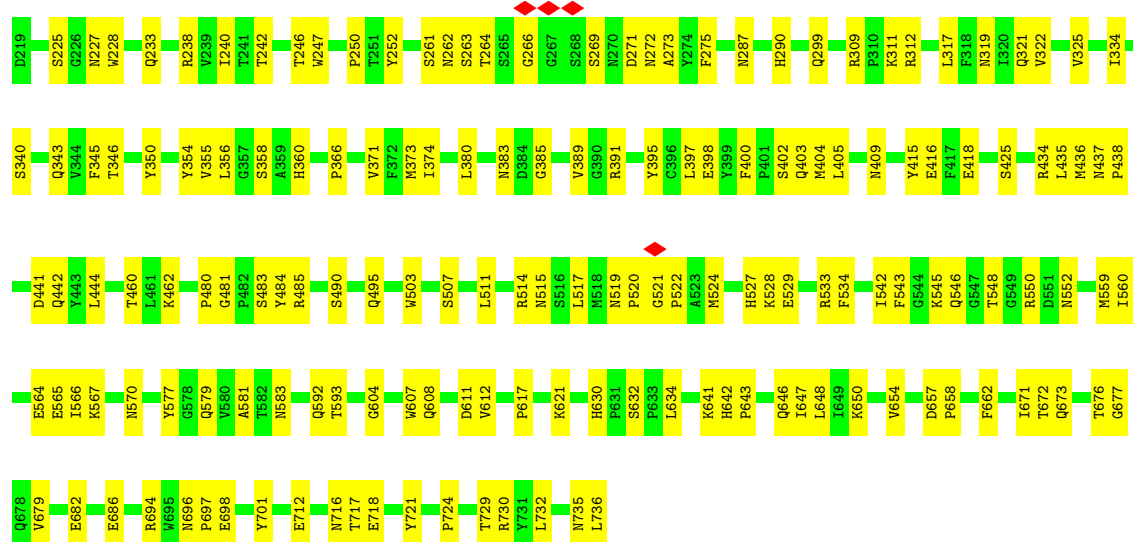


• Molecule 1: Capsid protein VP1

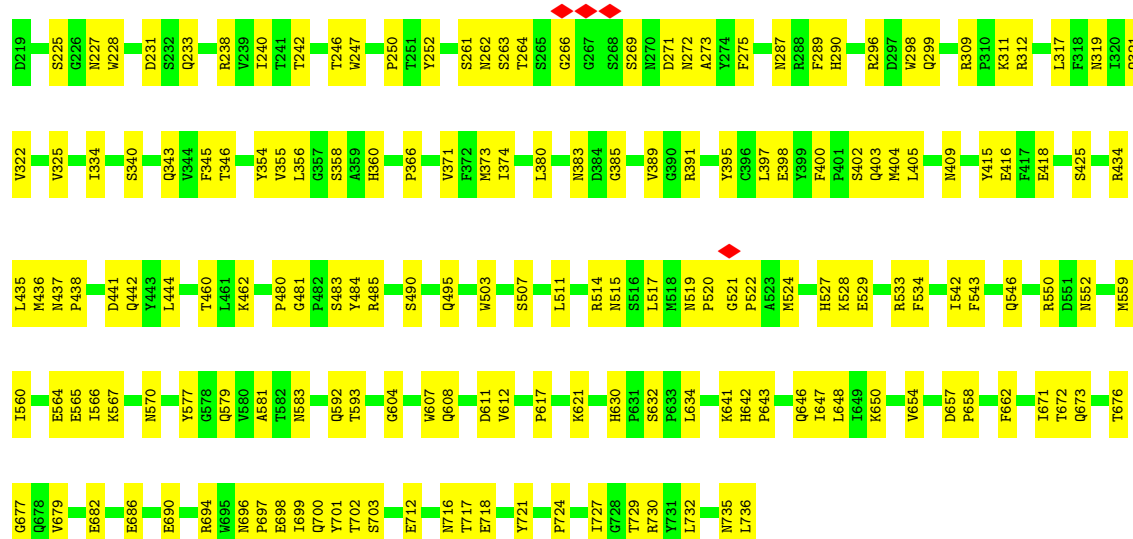




• Molecule 1: Capsid protein VP1

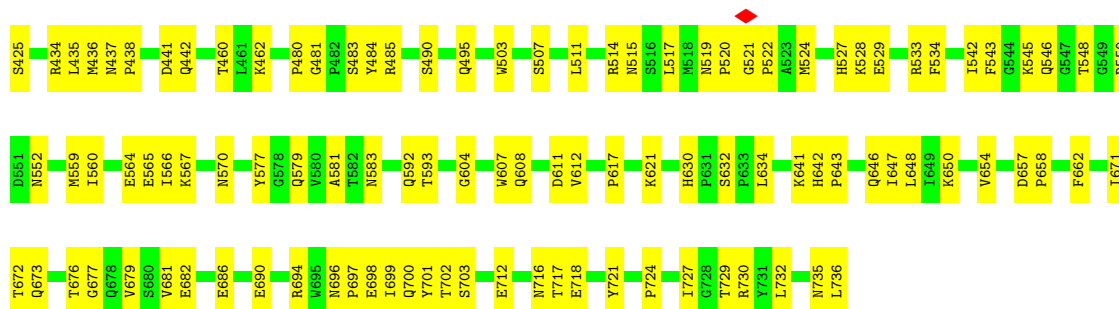


• Molecule 1: Capsid protein VP1

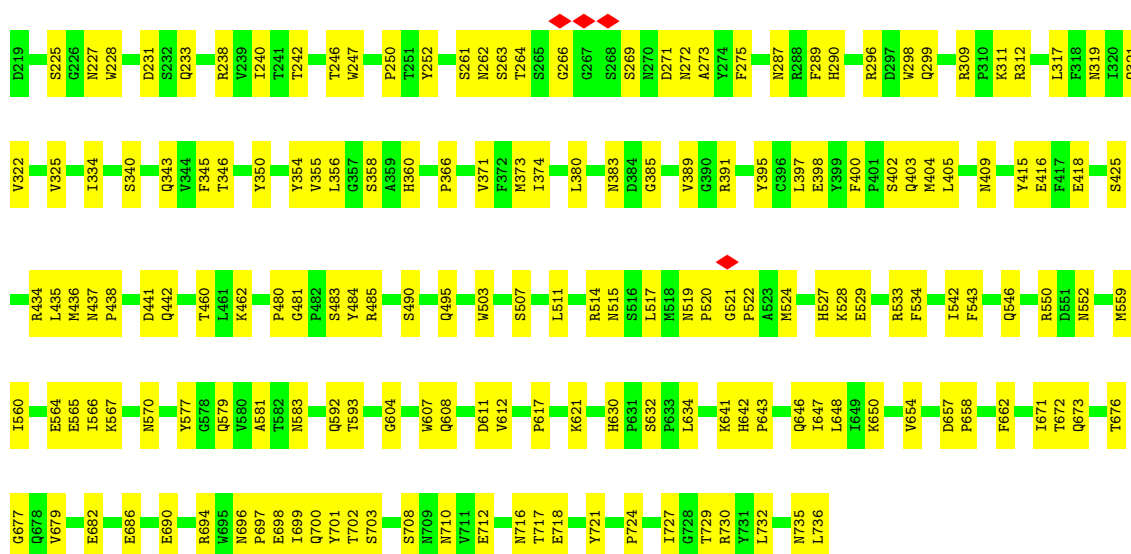


• Molecule 1: Capsid protein VP1

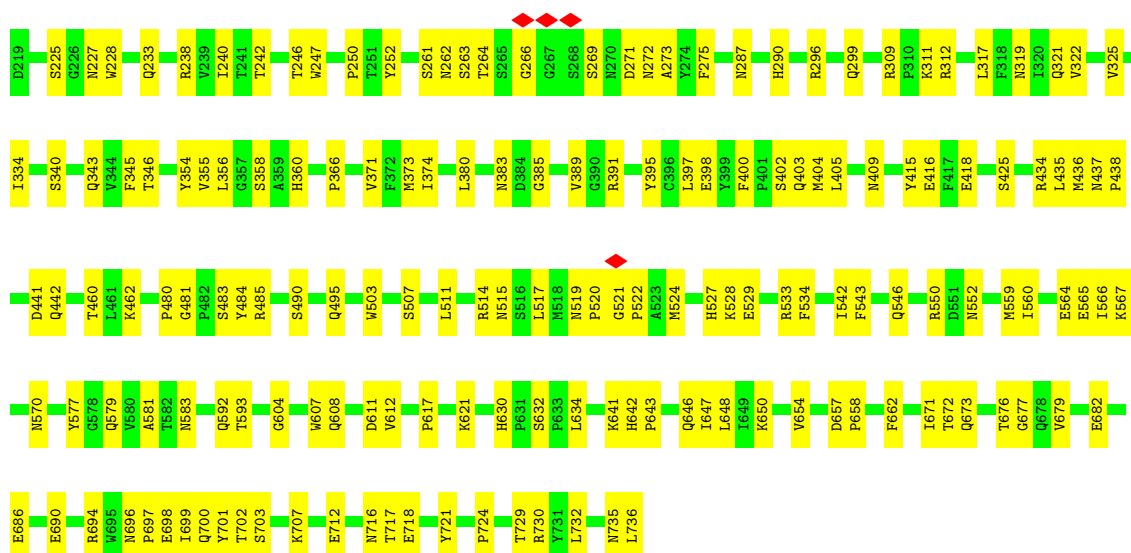




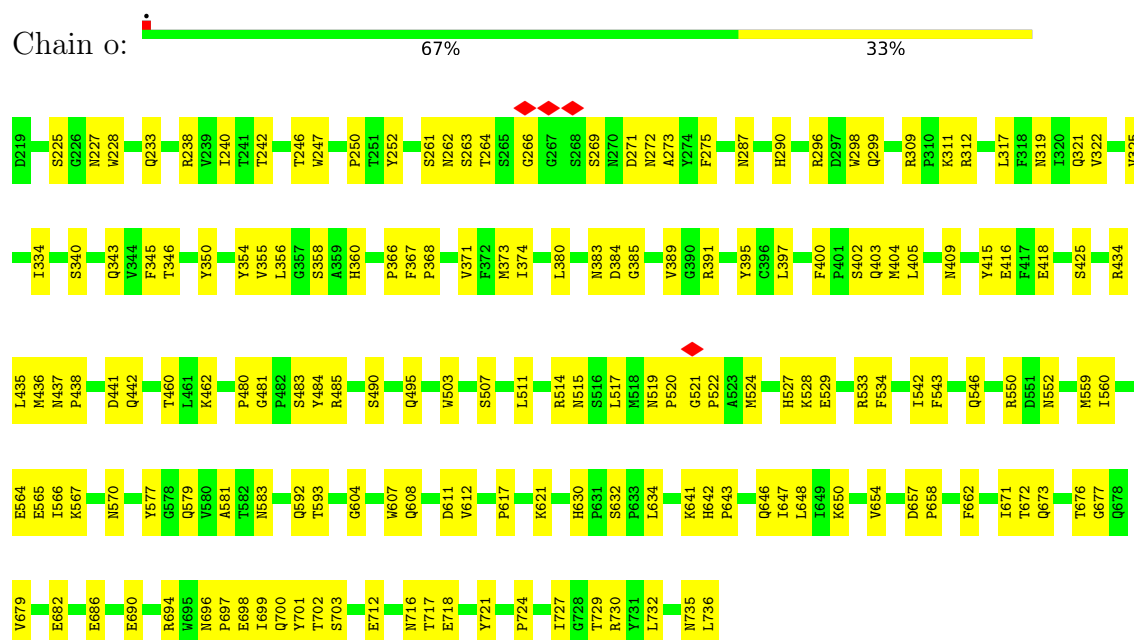
• Molecule 1: Capsid protein VP1



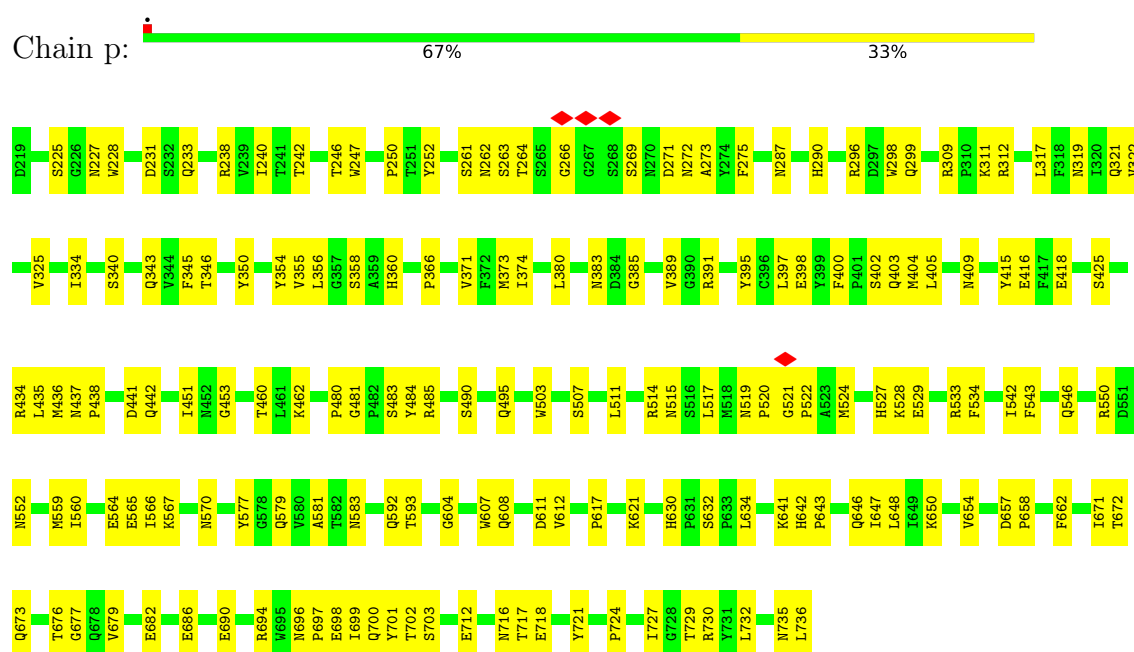
• Molecule 1: Capsid protein VP1



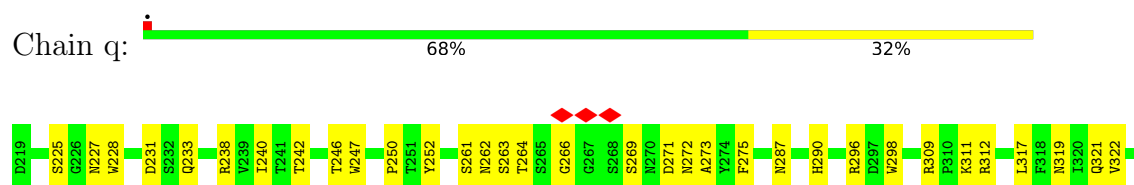
- Molecule 1: Capsid protein VP1

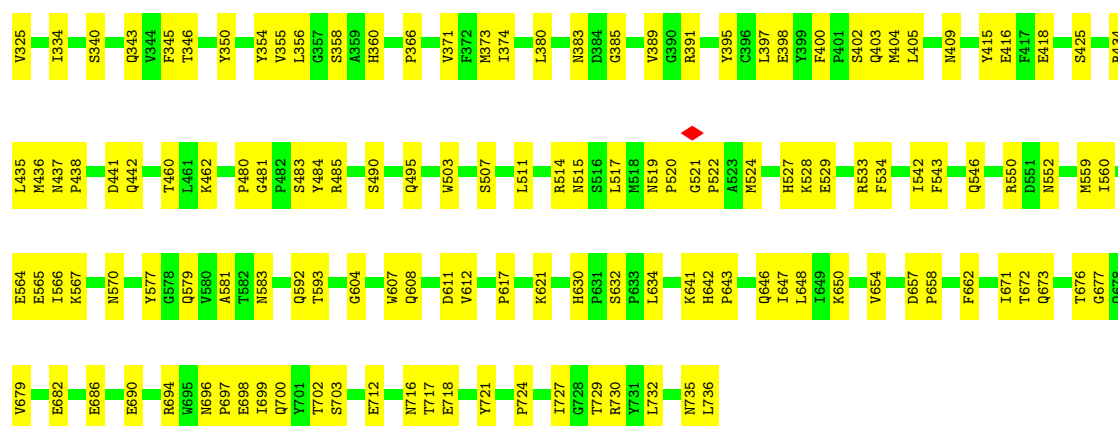


- Molecule 1: Capsid protein VP1

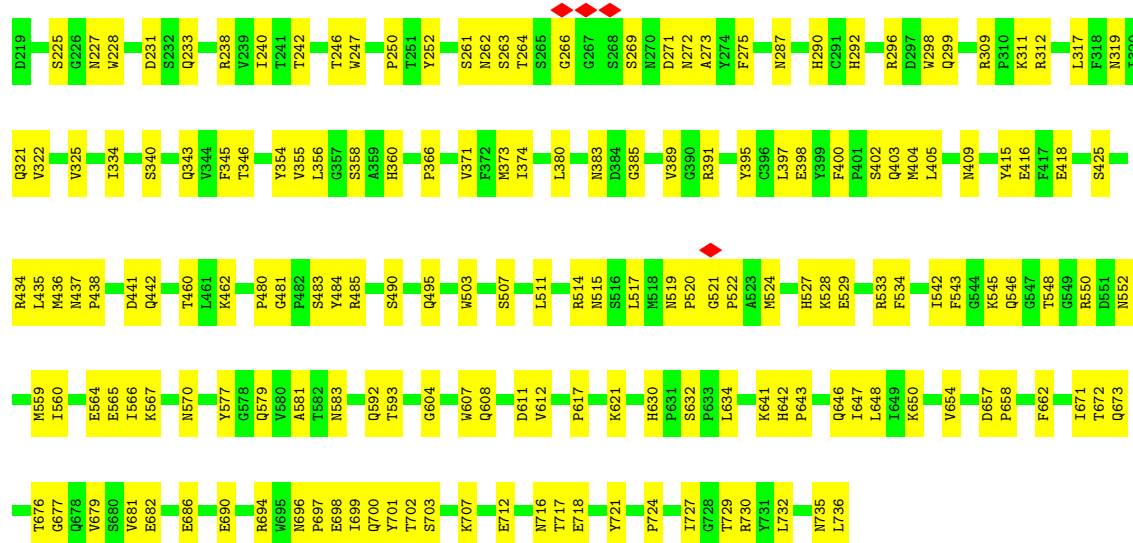


- Molecule 1: Capsid protein VP1

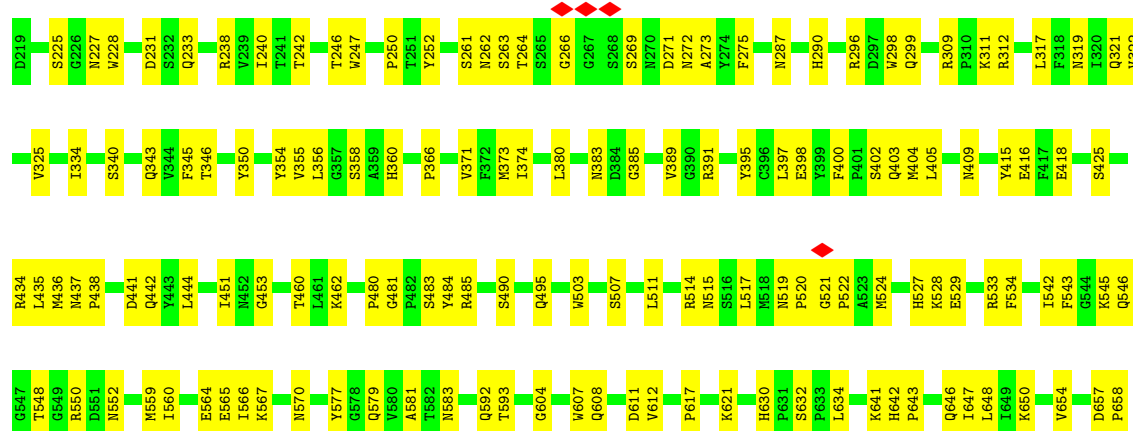


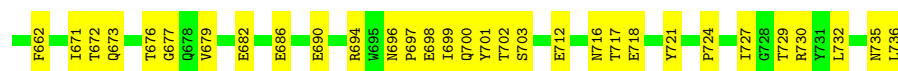


• Molecule 1: Capsid protein VP1

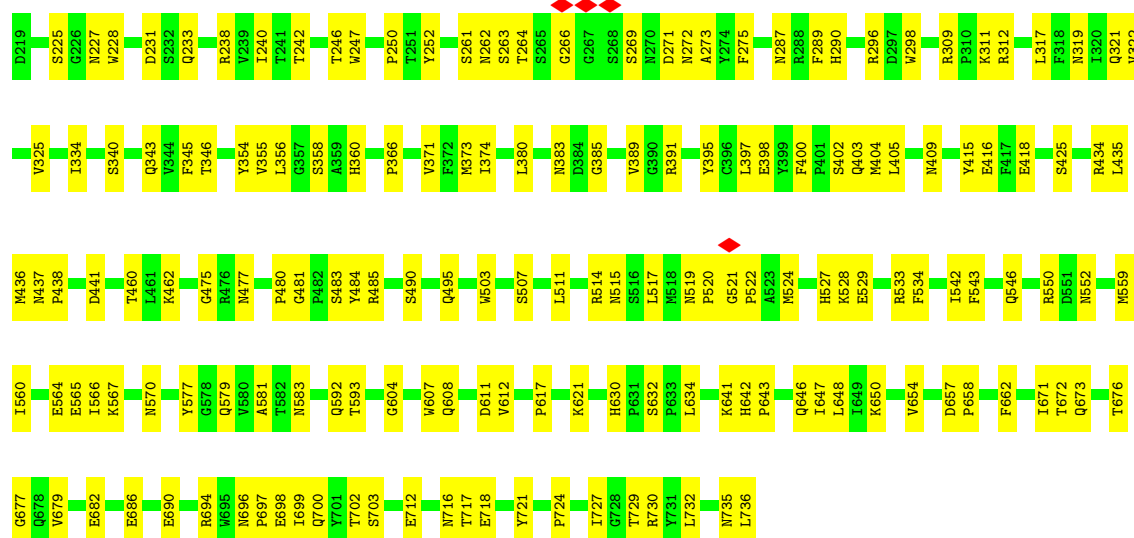


• Molecule 1: Capsid protein VP1

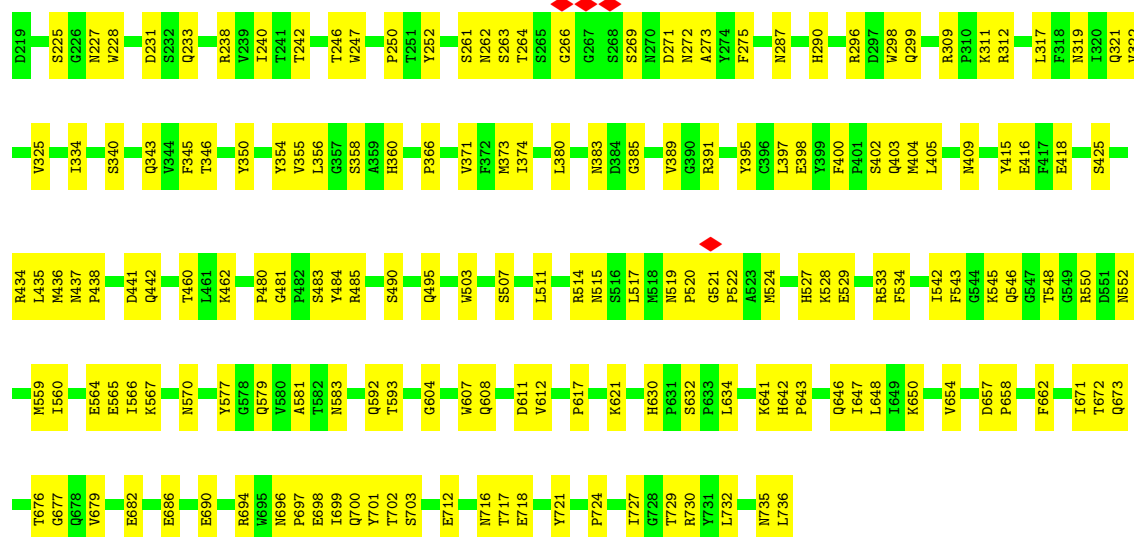




• Molecule 1: Capsid protein VP1

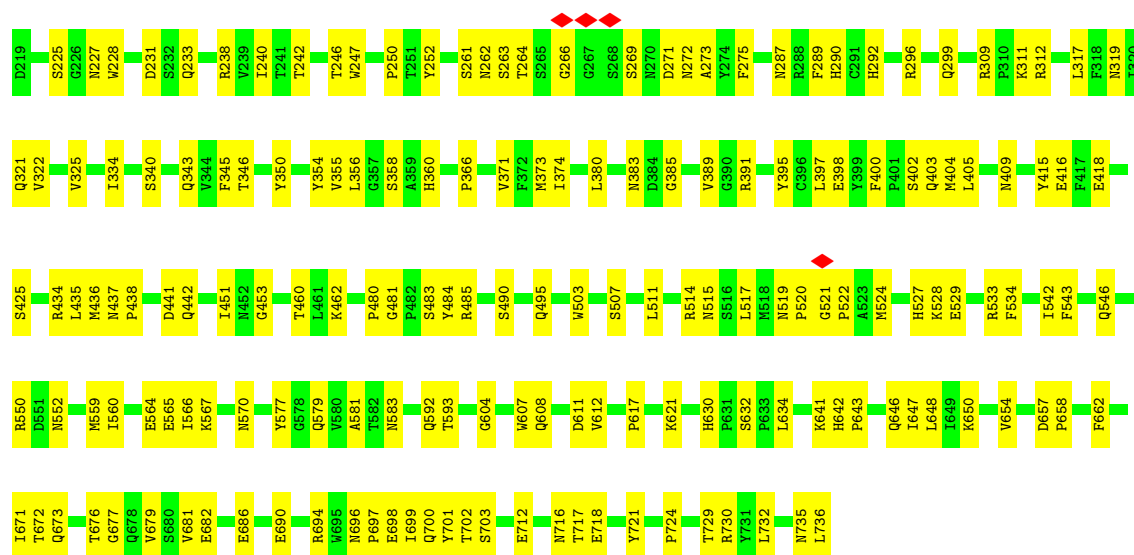


• Molecule 1: Capsid protein VP1

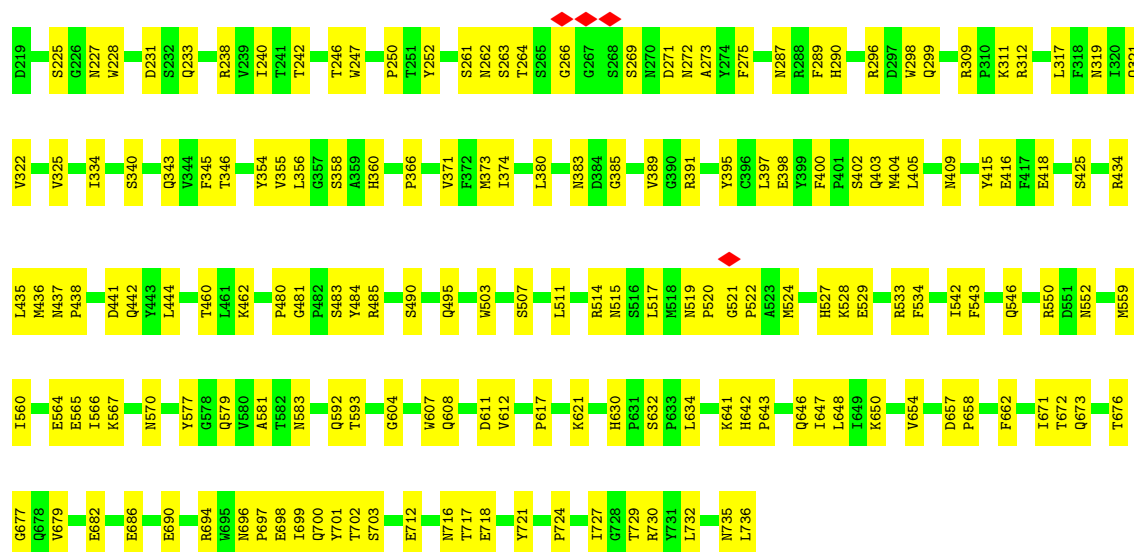


• Molecule 1: Capsid protein VP1

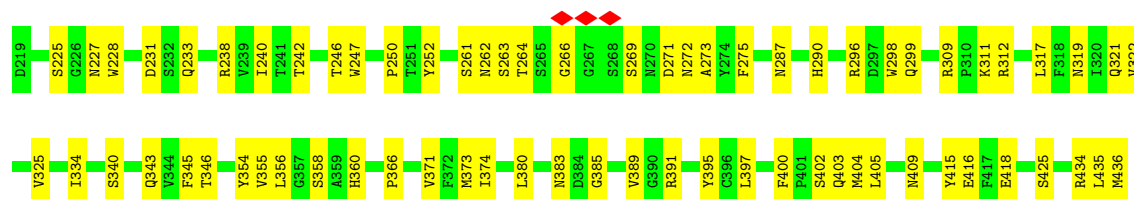


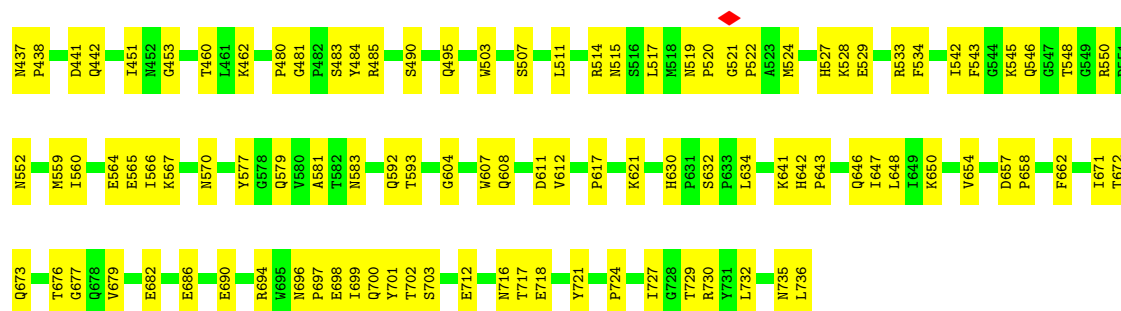


- Molecule 1: Capsid protein VP1

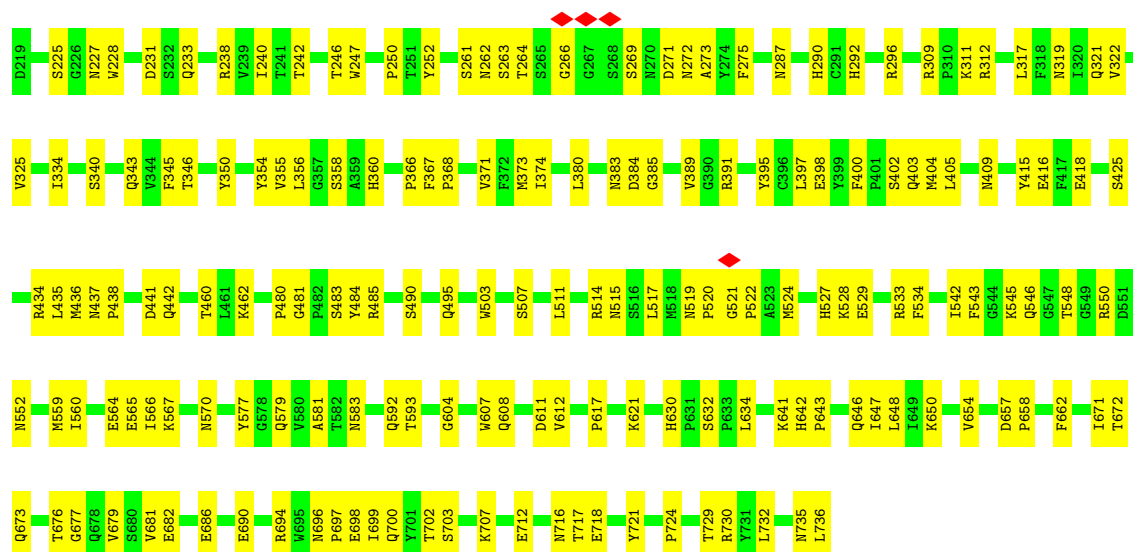


- Molecule 1: Capsid protein VP1

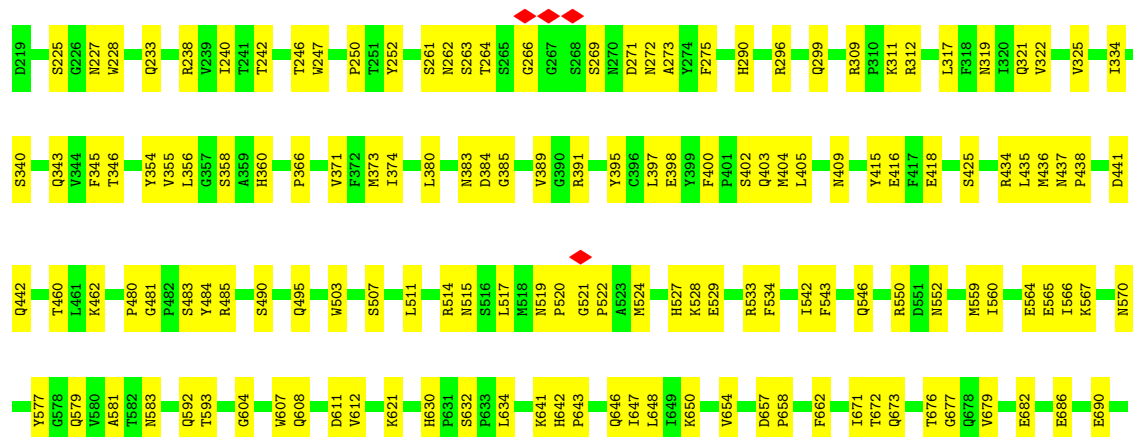


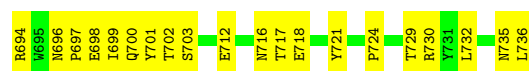


• Molecule 1: Capsid protein VP1

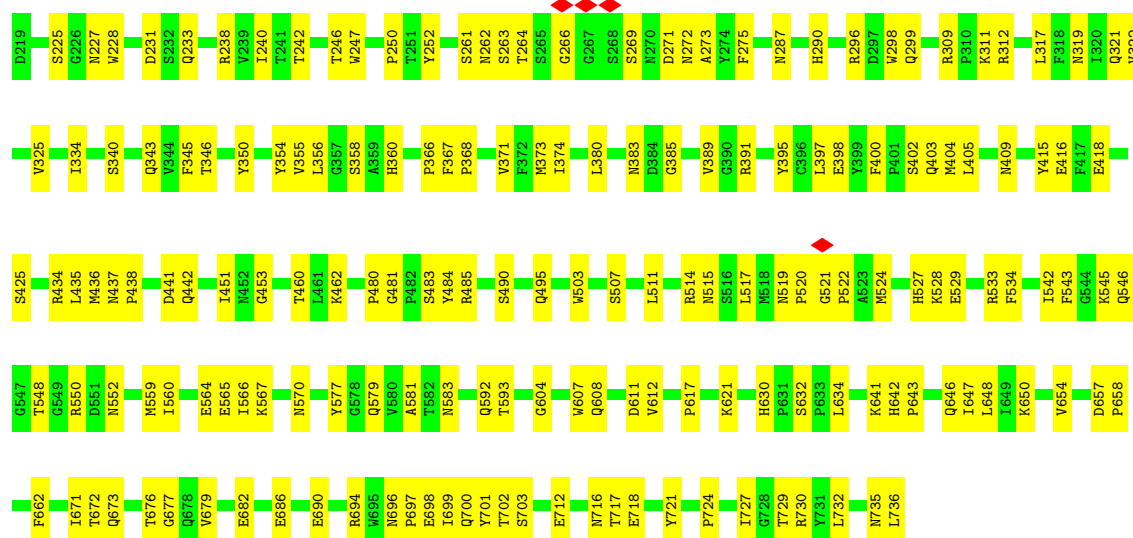


• Molecule 1: Capsid protein VP1

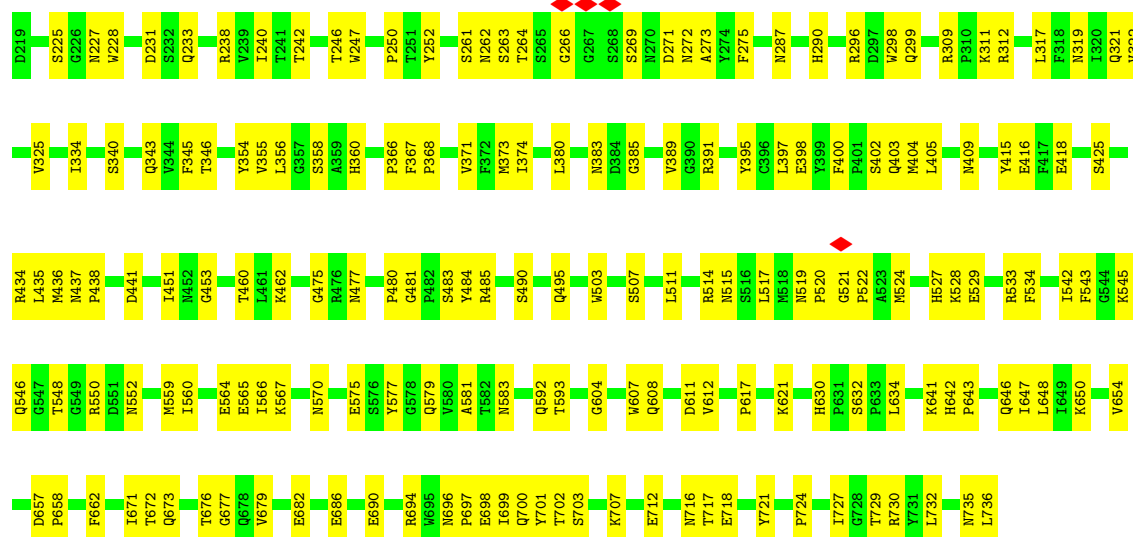




• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	82290	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 ($e^-/\text{\AA}^2$)	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	25.847	Depositor
Minimum map value	-12.469	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size ($\text{\AA}$)	478.926, 478.926, 478.926	wwPDB
Map dimensions	441, 441, 441	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.086, 1.086, 1.086	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.40	1/4256 (0.0%)	0.47	0/5800
1	2	0.40	1/4256 (0.0%)	0.47	0/5800
1	3	0.40	1/4256 (0.0%)	0.47	0/5800
1	4	0.40	1/4256 (0.0%)	0.47	0/5800
1	5	0.40	1/4256 (0.0%)	0.47	0/5800
1	7	0.40	1/4256 (0.0%)	0.47	0/5800
1	8	0.40	1/4256 (0.0%)	0.47	0/5800
1	A	0.40	1/4256 (0.0%)	0.47	0/5800
1	B	0.40	1/4256 (0.0%)	0.47	0/5800
1	C	0.40	1/4256 (0.0%)	0.47	0/5800
1	D	0.40	1/4256 (0.0%)	0.47	0/5800
1	E	0.40	1/4256 (0.0%)	0.47	0/5800
1	F	0.40	1/4256 (0.0%)	0.47	0/5800
1	G	0.40	1/4256 (0.0%)	0.47	0/5800
1	H	0.40	1/4256 (0.0%)	0.47	0/5800
1	I	0.40	1/4256 (0.0%)	0.47	0/5800
1	J	0.40	1/4256 (0.0%)	0.47	0/5800
1	K	0.40	1/4256 (0.0%)	0.47	0/5800
1	L	0.40	1/4256 (0.0%)	0.47	0/5800
1	M	0.40	1/4256 (0.0%)	0.48	0/5800
1	N	0.40	1/4256 (0.0%)	0.47	0/5800
1	O	0.40	1/4256 (0.0%)	0.47	0/5800
1	P	0.40	1/4256 (0.0%)	0.47	0/5800
1	Q	0.40	1/4256 (0.0%)	0.47	0/5800
1	R	0.40	1/4256 (0.0%)	0.47	0/5800
1	S	0.40	1/4256 (0.0%)	0.47	0/5800
1	T	0.40	1/4256 (0.0%)	0.47	0/5800
1	U	0.40	1/4256 (0.0%)	0.47	0/5800
1	V	0.40	1/4256 (0.0%)	0.47	0/5800
1	W	0.40	1/4256 (0.0%)	0.47	0/5800
1	X	0.40	1/4256 (0.0%)	0.47	0/5800
1	Y	0.40	1/4256 (0.0%)	0.47	0/5800
1	Z	0.40	1/4256 (0.0%)	0.47	0/5800
1	a	0.40	1/4256 (0.0%)	0.47	0/5800

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	b	0.40	1/4256 (0.0%)	0.47	0/5800
1	c	0.40	1/4256 (0.0%)	0.47	0/5800
1	d	0.40	1/4256 (0.0%)	0.47	0/5800
1	e	0.40	1/4256 (0.0%)	0.47	0/5800
1	f	0.40	1/4256 (0.0%)	0.47	0/5800
1	g	0.40	1/4256 (0.0%)	0.47	0/5800
1	h	0.40	1/4256 (0.0%)	0.47	0/5800
1	i	0.40	1/4256 (0.0%)	0.47	0/5800
1	j	0.40	1/4256 (0.0%)	0.48	0/5800
1	k	0.40	1/4256 (0.0%)	0.47	0/5800
1	l	0.40	1/4256 (0.0%)	0.47	0/5800
1	m	0.40	1/4256 (0.0%)	0.47	0/5800
1	n	0.40	1/4256 (0.0%)	0.47	0/5800
1	o	0.40	1/4256 (0.0%)	0.47	0/5800
1	p	0.40	1/4256 (0.0%)	0.47	0/5800
1	q	0.40	1/4256 (0.0%)	0.47	0/5800
1	r	0.40	1/4256 (0.0%)	0.47	0/5800
1	s	0.40	1/4256 (0.0%)	0.47	0/5800
1	t	0.40	1/4256 (0.0%)	0.47	0/5800
1	u	0.40	1/4256 (0.0%)	0.47	0/5800
1	v	0.40	1/4256 (0.0%)	0.47	0/5800
1	w	0.40	1/4256 (0.0%)	0.47	0/5800
1	x	0.40	1/4256 (0.0%)	0.47	0/5800
1	y	0.40	1/4256 (0.0%)	0.47	0/5800
1	z	0.40	1/4256 (0.0%)	0.47	0/5800
All	All	0.40	59/251104 (0.0%)	0.47	0/342200

All (59) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	400	PHE	C-N	-8.98	1.12	1.33
1	T	400	PHE	C-N	-8.98	1.12	1.33
1	U	400	PHE	C-N	-8.98	1.12	1.33
1	y	400	PHE	C-N	-8.98	1.12	1.33
1	4	400	PHE	C-N	-8.97	1.12	1.33
1	Q	400	PHE	C-N	-8.97	1.12	1.33
1	3	400	PHE	C-N	-8.97	1.12	1.33
1	C	400	PHE	C-N	-8.97	1.12	1.33
1	N	400	PHE	C-N	-8.97	1.12	1.33
1	5	400	PHE	C-N	-8.97	1.12	1.33
1	u	400	PHE	C-N	-8.97	1.12	1.33
1	8	400	PHE	C-N	-8.95	1.12	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7	400	PHE	C-N	-8.95	1.12	1.33
1	A	400	PHE	C-N	-8.95	1.12	1.33
1	R	400	PHE	C-N	-8.95	1.12	1.33
1	Y	400	PHE	C-N	-8.95	1.12	1.33
1	1	400	PHE	C-N	-8.95	1.12	1.33
1	2	400	PHE	C-N	-8.95	1.12	1.33
1	b	400	PHE	C-N	-8.95	1.12	1.33
1	m	400	PHE	C-N	-8.95	1.12	1.33
1	q	400	PHE	C-N	-8.95	1.12	1.33
1	v	400	PHE	C-N	-8.95	1.12	1.33
1	z	400	PHE	C-N	-8.95	1.12	1.33
1	F	400	PHE	C-N	-8.95	1.12	1.33
1	L	400	PHE	C-N	-8.94	1.12	1.33
1	c	400	PHE	C-N	-8.95	1.12	1.33
1	d	400	PHE	C-N	-8.95	1.12	1.33
1	o	400	PHE	C-N	-8.94	1.12	1.33
1	w	400	PHE	C-N	-8.95	1.12	1.33
1	E	400	PHE	C-N	-8.94	1.12	1.33
1	Z	400	PHE	C-N	-8.94	1.12	1.33
1	e	400	PHE	C-N	-8.94	1.12	1.33
1	j	400	PHE	C-N	-8.94	1.12	1.33
1	x	400	PHE	C-N	-8.94	1.12	1.33
1	O	400	PHE	C-N	-8.94	1.12	1.33
1	D	400	PHE	C-N	-8.94	1.12	1.33
1	I	400	PHE	C-N	-8.94	1.12	1.33
1	M	400	PHE	C-N	-8.94	1.12	1.33
1	S	400	PHE	C-N	-8.94	1.12	1.33
1	V	400	PHE	C-N	-8.94	1.12	1.33
1	W	400	PHE	C-N	-8.94	1.12	1.33
1	X	400	PHE	C-N	-8.94	1.12	1.33
1	a	400	PHE	C-N	-8.94	1.12	1.33
1	g	400	PHE	C-N	-8.94	1.12	1.33
1	h	400	PHE	C-N	-8.94	1.12	1.33
1	l	400	PHE	C-N	-8.94	1.12	1.33
1	n	400	PHE	C-N	-8.94	1.12	1.33
1	p	400	PHE	C-N	-8.94	1.12	1.33
1	s	400	PHE	C-N	-8.94	1.12	1.33
1	t	400	PHE	C-N	-8.94	1.12	1.33
1	J	400	PHE	C-N	-8.93	1.12	1.33
1	P	400	PHE	C-N	-8.93	1.12	1.33
1	f	400	PHE	C-N	-8.93	1.12	1.33
1	K	400	PHE	C-N	-8.93	1.12	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	400	PHE	C-N	-8.92	1.12	1.33
1	H	400	PHE	C-N	-8.92	1.12	1.33
1	k	400	PHE	C-N	-8.92	1.12	1.33
1	r	400	PHE	C-N	-8.92	1.12	1.33
1	i	400	PHE	C-N	-8.91	1.12	1.33

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4131	0	3884	142	0
1	2	4131	0	3884	143	0
1	3	4131	0	3884	142	0
1	4	4131	0	3884	144	0
1	5	4131	0	3884	147	0
1	7	4131	0	3884	146	0
1	8	4131	0	3884	149	0
1	A	4131	0	3884	142	0
1	B	4131	0	3884	145	0
1	C	4131	0	3884	145	0
1	D	4131	0	3884	148	0
1	E	4131	0	3884	145	0
1	F	4131	0	3884	141	0
1	G	4131	0	3884	143	0
1	H	4131	0	3884	142	0
1	I	4131	0	3884	147	0
1	J	4131	0	3884	141	0
1	K	4131	0	3884	146	0
1	L	4131	0	3884	145	0
1	M	4131	0	3884	142	0
1	N	4131	0	3884	147	0
1	O	4131	0	3884	139	0
1	P	4131	0	3884	146	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Q	4131	0	3884	147	0
1	R	4131	0	3884	141	0
1	S	4131	0	3884	134	0
1	T	4131	0	3884	128	0
1	U	4131	0	3884	144	0
1	V	4131	0	3884	143	0
1	W	4131	0	3884	140	0
1	X	4131	0	3884	147	0
1	Y	4131	0	3884	142	0
1	Z	4131	0	3884	143	0
1	a	4131	0	3884	146	0
1	b	4131	0	3884	144	0
1	c	4131	0	3884	145	0
1	d	4131	0	3884	141	0
1	e	4131	0	3884	143	0
1	f	4131	0	3884	129	0
1	g	4131	0	3884	146	0
1	h	4131	0	3884	135	0
1	i	4131	0	3884	145	0
1	j	4131	0	3884	143	0
1	k	4131	0	3884	139	0
1	l	4131	0	3884	145	0
1	m	4131	0	3884	146	0
1	n	4131	0	3884	141	0
1	o	4131	0	3884	144	0
1	p	4131	0	3884	145	0
1	q	4131	0	3884	142	0
1	r	4131	0	3884	146	0
1	s	4131	0	3884	147	0
1	t	4131	0	3884	142	0
1	u	4131	0	3884	145	0
1	v	4131	0	3884	145	0
1	w	4131	0	3884	144	0
1	x	4131	0	3884	143	0
1	y	4131	0	3884	146	0
1	z	4131	0	3884	141	0
All	All	243729	0	229156	7106	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 15.

All (7106) 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:X:309:ARG:HH21	1:X:311:LYS:NZ	1.48	1.12
1:i:309:ARG:HH21	1:i:311:LYS:NZ	1.48	1.12
1:I:309:ARG:HH21	1:I:311:LYS:NZ	1.48	1.12
1:O:309:ARG:HH21	1:O:311:LYS:NZ	1.48	1.12
1:P:309:ARG:HH21	1:P:311:LYS:NZ	1.48	1.12
1:4:309:ARG:HH21	1:4:311:LYS:NZ	1.48	1.12
1:g:309:ARG:HH21	1:g:311:LYS:NZ	1.48	1.12
1:r:309:ARG:HH21	1:r:311:LYS:NZ	1.48	1.12
1:s:309:ARG:HH21	1:s:311:LYS:NZ	1.48	1.12
1:w:309:ARG:HH21	1:w:311:LYS:NZ	1.48	1.12
1:G:309:ARG:HH21	1:G:311:LYS:NZ	1.48	1.11
1:N:309:ARG:HH21	1:N:311:LYS:NZ	1.48	1.11
1:5:309:ARG:HH21	1:5:311:LYS:NZ	1.48	1.11
1:b:309:ARG:HH21	1:b:311:LYS:NZ	1.48	1.11
1:E:309:ARG:HH21	1:E:311:LYS:NZ	1.48	1.11
1:3:309:ARG:HH21	1:3:311:LYS:NZ	1.48	1.11
1:R:309:ARG:HH21	1:R:311:LYS:NZ	1.48	1.11
1:e:309:ARG:HH21	1:e:311:LYS:NZ	1.48	1.11
1:f:309:ARG:HH21	1:f:311:LYS:NZ	1.48	1.11
1:k:309:ARG:HH21	1:k:311:LYS:NZ	1.48	1.11
1:u:309:ARG:HH21	1:u:311:LYS:NZ	1.48	1.11
1:x:309:ARG:HH21	1:x:311:LYS:NZ	1.48	1.11
1:C:309:ARG:HH21	1:C:311:LYS:NZ	1.48	1.11
1:H:309:ARG:HH21	1:H:311:LYS:NZ	1.48	1.11
1:Y:309:ARG:HH21	1:Y:311:LYS:NZ	1.48	1.11
1:m:309:ARG:HH21	1:m:311:LYS:NZ	1.48	1.11
1:F:309:ARG:HH21	1:F:311:LYS:NZ	1.48	1.11
1:p:309:ARG:HH21	1:p:311:LYS:NZ	1.48	1.11
1:B:309:ARG:HH21	1:B:311:LYS:NZ	1.48	1.10
1:d:309:ARG:HH21	1:d:311:LYS:NZ	1.48	1.10
1:n:309:ARG:HH21	1:n:311:LYS:NZ	1.48	1.10
1:J:309:ARG:HH21	1:J:311:LYS:NZ	1.48	1.10
1:8:309:ARG:HH21	1:8:311:LYS:NZ	1.48	1.10
1:K:309:ARG:HH21	1:K:311:LYS:NZ	1.48	1.10
1:7:309:ARG:HH21	1:7:311:LYS:NZ	1.48	1.10
1:Q:309:ARG:HH21	1:Q:311:LYS:NZ	1.48	1.10
1:c:309:ARG:HH21	1:c:311:LYS:NZ	1.48	1.10
1:y:309:ARG:HH21	1:y:311:LYS:NZ	1.48	1.10
1:z:309:ARG:HH21	1:z:311:LYS:NZ	1.48	1.10
1:D:309:ARG:HH21	1:D:311:LYS:NZ	1.48	1.10
1:M:309:ARG:HH21	1:M:311:LYS:NZ	1.48	1.10
1:h:309:ARG:HH21	1:h:311:LYS:NZ	1.48	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:309:ARG:HH21	1:A:311:LYS:NZ	1.48	1.09
1:S:309:ARG:HH21	1:S:311:LYS:NZ	1.48	1.09
1:T:309:ARG:HH21	1:T:311:LYS:NZ	1.48	1.09
1:U:309:ARG:HH21	1:U:311:LYS:NZ	1.48	1.09
1:l:309:ARG:HH21	1:l:311:LYS:NZ	1.48	1.09
1:t:309:ARG:HH21	1:t:311:LYS:NZ	1.48	1.09
1:V:309:ARG:HH21	1:V:311:LYS:NZ	1.48	1.09
1:a:309:ARG:HH21	1:a:311:LYS:NZ	1.48	1.09
1:q:309:ARG:HH21	1:q:311:LYS:NZ	1.48	1.09
1:L:309:ARG:HH21	1:L:311:LYS:NZ	1.48	1.09
1:j:309:ARG:HH21	1:j:311:LYS:NZ	1.48	1.09
1:o:309:ARG:HH21	1:o:311:LYS:NZ	1.48	1.09
1:Z:309:ARG:HH21	1:Z:311:LYS:NZ	1.48	1.09
1:v:309:ARG:HH21	1:v:311:LYS:NZ	1.48	1.09
1:2:309:ARG:HH21	1:2:311:LYS:NZ	1.48	1.09
1:l:309:ARG:HH21	1:l:311:LYS:NZ	1.48	1.08
1:W:309:ARG:HH21	1:W:311:LYS:NZ	1.48	1.07
1:V:309:ARG:NH2	1:V:311:LYS:NZ	2.07	1.03
1:Y:309:ARG:NH2	1:Y:311:LYS:NZ	2.07	1.03
1:h:309:ARG:NH2	1:h:311:LYS:NZ	2.07	1.03
1:m:309:ARG:NH2	1:m:311:LYS:NZ	2.07	1.03
1:X:309:ARG:NH2	1:X:311:LYS:NZ	2.07	1.03
1:g:309:ARG:NH2	1:g:311:LYS:NZ	2.07	1.03
1:7:309:ARG:NH2	1:7:311:LYS:NZ	2.07	1.03
1:P:309:ARG:NH2	1:P:311:LYS:NZ	2.07	1.03
1:Z:309:ARG:NH2	1:Z:311:LYS:NZ	2.07	1.03
1:3:309:ARG:NH2	1:3:311:LYS:NZ	2.07	1.03
1:b:309:ARG:NH2	1:b:311:LYS:NZ	2.07	1.03
1:f:309:ARG:NH2	1:f:311:LYS:NZ	2.07	1.03
1:j:309:ARG:NH2	1:j:311:LYS:NZ	2.07	1.03
1:x:309:ARG:NH2	1:x:311:LYS:NZ	2.07	1.03
1:8:309:ARG:NH2	1:8:311:LYS:NZ	2.07	1.03
1:I:309:ARG:NH2	1:I:311:LYS:NZ	2.07	1.02
1:Q:309:ARG:NH2	1:Q:311:LYS:NZ	2.07	1.02
1:R:309:ARG:NH2	1:R:311:LYS:NZ	2.07	1.02
1:c:309:ARG:NH2	1:c:311:LYS:NZ	2.07	1.02
1:s:309:ARG:NH2	1:s:311:LYS:NZ	2.07	1.02
1:u:309:ARG:NH2	1:u:311:LYS:NZ	2.07	1.02
1:B:309:ARG:NH2	1:B:311:LYS:NZ	2.07	1.02
1:C:309:ARG:NH2	1:C:311:LYS:NZ	2.07	1.02
1:E:309:ARG:NH2	1:E:311:LYS:NZ	2.07	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:309:ARG:NH2	1:k:311:LYS:NZ	2.07	1.02
1:o:309:ARG:NH2	1:o:311:LYS:NZ	2.07	1.02
1:H:309:ARG:NH2	1:H:311:LYS:NZ	2.07	1.02
1:N:309:ARG:NH2	1:N:311:LYS:NZ	2.07	1.02
1:U:309:ARG:NH2	1:U:311:LYS:NZ	2.07	1.02
1:a:309:ARG:NH2	1:a:311:LYS:NZ	2.07	1.02
1:e:309:ARG:NH2	1:e:311:LYS:NZ	2.07	1.02
1:i:309:ARG:NH2	1:i:311:LYS:NZ	2.07	1.02
1:p:309:ARG:NH2	1:p:311:LYS:NZ	2.07	1.02
1:w:309:ARG:NH2	1:w:311:LYS:NZ	2.07	1.02
1:D:309:ARG:NH2	1:D:311:LYS:NZ	2.07	1.02
1:L:309:ARG:NH2	1:L:311:LYS:NZ	2.07	1.02
1:5:309:ARG:NH2	1:5:311:LYS:NZ	2.07	1.02
1:t:309:ARG:NH2	1:t:311:LYS:NZ	2.07	1.02
1:G:309:ARG:NH2	1:G:311:LYS:NZ	2.07	1.01
1:K:309:ARG:NH2	1:K:311:LYS:NZ	2.07	1.01
1:M:309:ARG:NH2	1:M:311:LYS:NZ	2.07	1.01
1:1:309:ARG:NH2	1:1:311:LYS:NZ	2.07	1.01
1:r:309:ARG:NH2	1:r:311:LYS:NZ	2.07	1.01
1:y:309:ARG:NH2	1:y:311:LYS:NZ	2.07	1.01
1:z:309:ARG:NH2	1:z:311:LYS:NZ	2.07	1.01
1:l:309:ARG:NH2	1:l:311:LYS:NZ	2.07	1.01
1:O:309:ARG:NH2	1:O:311:LYS:NZ	2.07	1.01
1:W:309:ARG:NH2	1:W:311:LYS:NZ	2.07	1.01
1:4:309:ARG:NH2	1:4:311:LYS:NZ	2.07	1.01
1:A:309:ARG:NH2	1:A:311:LYS:NZ	2.07	1.01
1:J:309:ARG:NH2	1:J:311:LYS:NZ	2.07	1.00
1:n:309:ARG:NH2	1:n:311:LYS:NZ	2.07	1.00
1:q:309:ARG:NH2	1:q:311:LYS:NZ	2.07	1.00
1:F:309:ARG:NH2	1:F:311:LYS:NZ	2.07	1.00
1:S:309:ARG:NH2	1:S:311:LYS:NZ	2.07	1.00
1:T:309:ARG:NH2	1:T:311:LYS:NZ	2.07	1.00
1:d:309:ARG:NH2	1:d:311:LYS:NZ	2.07	1.00
1:2:309:ARG:NH2	1:2:311:LYS:NZ	2.07	1.00
1:v:309:ARG:NH2	1:v:311:LYS:NZ	2.07	1.00
1:K:550:ARG:NH1	1:8:441:ASP:OD2	2.10	0.84
1:O:441:ASP:OD2	1:g:550:ARG:NH1	2.13	0.82
1:E:550:ARG:NH1	1:F:441:ASP:OD2	2.13	0.82
1:H:441:ASP:OD2	1:W:550:ARG:NH1	2.13	0.82
1:X:550:ARG:NH1	1:4:441:ASP:OD2	2.13	0.82
1:Z:550:ARG:NH1	1:w:441:ASP:OD2	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:441:ASP:OD2	1:e:550:ARG:NH1	2.13	0.82
1:k:441:ASP:OD2	1:l:550:ARG:NH1	2.13	0.82
1:w:550:ARG:NH1	1:x:441:ASP:OD2	2.13	0.81
1:i:441:ASP:OD2	1:j:550:ARG:NH1	2.13	0.81
1:y:441:ASP:OD2	1:z:550:ARG:NH1	2.13	0.81
1:C:441:ASP:OD2	1:2:550:ARG:NH1	2.13	0.81
1:D:441:ASP:OD2	1:N:550:ARG:NH1	2.13	0.81
1:3:441:ASP:OD2	1:i:550:ARG:NH1	2.13	0.81
1:5:550:ARG:NH1	1:a:441:ASP:OD2	2.13	0.81
1:g:441:ASP:OD2	1:h:550:ARG:NH1	2.13	0.81
1:y:550:ARG:NH1	1:7:441:ASP:OD2	2.13	0.81
1:K:441:ASP:OD2	1:1:550:ARG:NH1	2.14	0.81
1:q:441:ASP:OD2	1:r:550:ARG:NH1	2.13	0.81
1:u:441:ASP:OD2	1:v:550:ARG:NH1	2.13	0.81
1:V:550:ARG:NH1	1:X:441:ASP:OD2	2.13	0.81
1:V:441:ASP:OD2	1:4:550:ARG:NH1	2.13	0.81
1:A:441:ASP:OD2	1:G:550:ARG:NH1	2.13	0.81
1:O:550:ARG:NH1	1:h:441:ASP:OD2	2.13	0.81
1:S:441:ASP:OD2	1:U:550:ARG:NH1	2.14	0.81
1:E:441:ASP:OD2	1:Q:550:ARG:NH1	2.13	0.81
1:M:550:ARG:NH1	1:2:441:ASP:OD2	2.13	0.81
1:a:550:ARG:NH1	1:b:441:ASP:OD2	2.13	0.81
1:c:550:ARG:NH1	1:e:441:ASP:OD2	2.13	0.81
1:t:550:ARG:NH1	1:v:441:ASP:OD2	2.13	0.81
1:B:441:ASP:OD2	1:J:550:ARG:NH1	2.13	0.81
1:T:550:ARG:NH1	1:f:441:ASP:OD2	2.13	0.81
1:1:441:ASP:OD2	1:8:550:ARG:NH1	2.13	0.81
1:D:550:ARG:NH1	1:P:441:ASP:OD2	2.13	0.80
1:H:550:ARG:NH1	1:Y:441:ASP:OD2	2.13	0.80
1:5:441:ASP:OD2	1:b:550:ARG:NH1	2.13	0.80
1:n:550:ARG:NH1	1:p:441:ASP:OD2	2.13	0.80
1:r:441:ASP:OD2	1:s:550:ARG:NH1	2.13	0.80
1:N:441:ASP:OD2	1:P:550:ARG:NH1	2.13	0.80
1:R:441:ASP:OD2	1:S:550:ARG:NH1	2.13	0.80
1:k:550:ARG:NH1	1:m:441:ASP:OD2	2.13	0.80
1:F:522:PRO:HG2	1:F:524:MET:HE2	1.64	0.80
1:G:441:ASP:OD2	1:I:550:ARG:NH1	2.13	0.80
1:o:522:PRO:HG2	1:o:524:MET:HE2	1.64	0.80
1:L:522:PRO:HG2	1:L:524:MET:HE2	1.64	0.80
1:c:441:ASP:OD2	1:d:550:ARG:NH1	2.13	0.80
1:d:522:PRO:HG2	1:d:524:MET:HE2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:550:ARG:NH1	1:I:441:ASP:OD2	2.14	0.80
1:o:441:ASP:OD2	1:p:550:ARG:NH1	2.13	0.80
1:u:522:PRO:HG2	1:u:524:MET:HE2	1.64	0.80
1:A:522:PRO:HG2	1:A:524:MET:HE2	1.64	0.80
1:C:522:PRO:HG2	1:C:524:MET:HE2	1.64	0.80
1:F:550:ARG:NH1	1:Q:441:ASP:OD2	2.13	0.80
1:N:522:PRO:HG2	1:N:524:MET:HE2	1.64	0.80
1:Q:522:PRO:HG2	1:Q:524:MET:HE2	1.64	0.80
1:5:522:PRO:HG2	1:5:524:MET:HE2	1.64	0.80
1:c:522:PRO:HG2	1:c:524:MET:HE2	1.64	0.80
1:g:522:PRO:HG2	1:g:524:MET:HE2	1.64	0.80
1:i:522:PRO:HG2	1:i:524:MET:HE2	1.64	0.80
1:q:550:ARG:NH1	1:s:441:ASP:OD2	2.14	0.80
1:B:522:PRO:HG2	1:B:524:MET:HE2	1.64	0.80
1:B:550:ARG:NH1	1:L:441:ASP:OD2	2.13	0.80
1:X:522:PRO:HG2	1:X:524:MET:HE2	1.64	0.80
1:l:441:ASP:OD2	1:m:550:ARG:NH1	2.14	0.80
1:q:522:PRO:HG2	1:q:524:MET:HE2	1.64	0.80
1:w:522:PRO:HG2	1:w:524:MET:HE2	1.64	0.80
1:J:441:ASP:OD2	1:L:550:ARG:NH1	2.13	0.80
1:t:441:ASP:OD2	1:u:550:ARG:NH1	2.13	0.80
1:C:550:ARG:NH1	1:M:441:ASP:OD2	2.13	0.80
1:R:550:ARG:NH1	1:U:441:ASP:OD2	2.14	0.80
1:W:441:ASP:OD2	1:Y:550:ARG:NH1	2.14	0.80
1:n:441:ASP:OD2	1:o:550:ARG:NH1	2.13	0.80
1:p:522:PRO:HG2	1:p:524:MET:HE2	1.64	0.80
1:8:522:PRO:HG2	1:8:524:MET:HE2	1.64	0.80
1:P:522:PRO:HG2	1:P:524:MET:HE2	1.64	0.79
1:R:522:PRO:HG2	1:R:524:MET:HE2	1.64	0.79
1:7:522:PRO:HG2	1:7:524:MET:HE2	1.64	0.79
1:b:522:PRO:HG2	1:b:524:MET:HE2	1.64	0.79
1:f:522:PRO:HG2	1:f:524:MET:HE2	1.64	0.79
1:z:441:ASP:OD2	1:7:550:ARG:NH1	2.13	0.79
1:Z:522:PRO:HG2	1:Z:524:MET:HE2	1.64	0.79
1:j:522:PRO:HG2	1:j:524:MET:HE2	1.64	0.79
1:y:522:PRO:HG2	1:y:524:MET:HE2	1.64	0.79
1:2:522:PRO:HG2	1:2:524:MET:HE2	1.64	0.79
1:v:522:PRO:HG2	1:v:524:MET:HE2	1.64	0.79
1:K:522:PRO:HG2	1:K:524:MET:HE2	1.64	0.79
1:Y:522:PRO:HG2	1:Y:524:MET:HE2	1.64	0.79
1:3:550:ARG:NH1	1:j:441:ASP:OD2	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:522:PRO:HG2	1:D:524:MET:HE2	1.64	0.78
1:G:522:PRO:HG2	1:G:524:MET:HE2	1.64	0.78
1:Z:441:ASP:OD2	1:x:550:ARG:NH1	2.13	0.78
1:1:522:PRO:HG2	1:1:524:MET:HE2	1.64	0.78
1:O:522:PRO:HG2	1:O:524:MET:HE2	1.64	0.78
1:a:522:PRO:HG2	1:a:524:MET:HE2	1.64	0.78
1:m:522:PRO:HG2	1:m:524:MET:HE2	1.64	0.78
1:z:522:PRO:HG2	1:z:524:MET:HE2	1.64	0.78
1:E:522:PRO:HG2	1:E:524:MET:HE2	1.64	0.78
1:4:522:PRO:HG2	1:4:524:MET:HE2	1.64	0.78
1:h:522:PRO:HG2	1:h:524:MET:HE2	1.64	0.78
1:r:522:PRO:HG2	1:r:524:MET:HE2	1.64	0.78
1:V:522:PRO:HG2	1:V:524:MET:HE2	1.64	0.78
1:W:522:PRO:HG2	1:W:524:MET:HE2	1.64	0.78
1:e:522:PRO:HG2	1:e:524:MET:HE2	1.64	0.78
1:l:522:PRO:HG2	1:l:524:MET:HE2	1.64	0.78
1:x:522:PRO:HG2	1:x:524:MET:HE2	1.64	0.78
1:3:522:PRO:HG2	1:3:524:MET:HE2	1.64	0.78
1:t:522:PRO:HG2	1:t:524:MET:HE2	1.64	0.77
1:M:522:PRO:HG2	1:M:524:MET:HE2	1.64	0.77
1:S:522:PRO:HG2	1:S:524:MET:HE2	1.64	0.77
1:U:522:PRO:HG2	1:U:524:MET:HE2	1.64	0.77
1:T:522:PRO:HG2	1:T:524:MET:HE2	1.64	0.77
1:s:522:PRO:HG2	1:s:524:MET:HE2	1.64	0.77
1:H:522:PRO:HG2	1:H:524:MET:HE2	1.64	0.77
1:I:522:PRO:HG2	1:I:524:MET:HE2	1.64	0.77
1:k:522:PRO:HG2	1:k:524:MET:HE2	1.64	0.77
1:i:311:LYS:HE2	1:i:686:GLU:CB	2.15	0.77
1:J:522:PRO:HG2	1:J:524:MET:HE2	1.64	0.77
1:P:311:LYS:HE2	1:P:686:GLU:CB	2.15	0.77
1:n:522:PRO:HG2	1:n:524:MET:HE2	1.64	0.77
1:R:437:ASN:HB2	1:S:355:VAL:HG11	1.67	0.77
1:W:311:LYS:HE2	1:W:686:GLU:CB	2.15	0.77
1:b:311:LYS:HE2	1:b:686:GLU:CB	2.15	0.77
1:l:311:LYS:HE2	1:l:686:GLU:CB	2.15	0.77
1:m:311:LYS:HE2	1:m:686:GLU:CB	2.15	0.77
1:p:311:LYS:HE2	1:p:686:GLU:CB	2.15	0.77
1:w:311:LYS:HE2	1:w:686:GLU:CB	2.15	0.77
1:8:311:LYS:HE2	1:8:686:GLU:CB	2.15	0.77
1:B:311:LYS:HE2	1:B:686:GLU:CB	2.15	0.77
1:L:311:LYS:HE2	1:L:686:GLU:CB	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:311:LYS:HE2	1:Y:686:GLU:CB	2.15	0.77
1:1:437:ASN:HB2	1:8:355:VAL:HG11	1.67	0.77
1:7:311:LYS:HE2	1:7:686:GLU:CB	2.15	0.77
1:C:311:LYS:HE2	1:C:686:GLU:CB	2.15	0.77
1:5:437:ASN:HB2	1:b:355:VAL:HG11	1.67	0.77
1:g:311:LYS:HE2	1:g:686:GLU:CB	2.15	0.77
1:o:311:LYS:HE2	1:o:686:GLU:CB	2.15	0.77
1:u:311:LYS:HE2	1:u:686:GLU:CB	2.15	0.77
1:F:311:LYS:HE2	1:F:686:GLU:CB	2.15	0.76
1:N:437:ASN:HB2	1:P:355:VAL:HG11	1.68	0.76
1:V:311:LYS:HE2	1:V:686:GLU:CB	2.15	0.76
1:3:311:LYS:HE2	1:3:686:GLU:CB	2.15	0.76
1:a:311:LYS:HE2	1:a:686:GLU:CB	2.15	0.76
1:c:437:ASN:HB2	1:d:355:VAL:HG11	1.68	0.76
1:d:311:LYS:HE2	1:d:686:GLU:CB	2.15	0.76
1:h:311:LYS:HE2	1:h:686:GLU:CB	2.15	0.76
1:H:311:LYS:HE2	1:H:686:GLU:CB	2.15	0.76
1:N:311:LYS:HE2	1:N:686:GLU:CB	2.15	0.76
1:X:311:LYS:HE2	1:X:686:GLU:CB	2.15	0.76
1:t:311:LYS:HE2	1:t:686:GLU:CB	2.15	0.76
1:z:437:ASN:HB2	1:7:355:VAL:HG11	1.68	0.76
1:D:311:LYS:HE2	1:D:686:GLU:CB	2.15	0.76
1:F:355:VAL:HG11	1:Q:437:ASN:HB2	1.68	0.76
1:M:311:LYS:HE2	1:M:686:GLU:CB	2.15	0.76
1:k:311:LYS:HE2	1:k:686:GLU:CB	2.15	0.76
1:x:311:LYS:HE2	1:x:686:GLU:CB	2.15	0.76
1:B:437:ASN:HB2	1:J:355:VAL:HG11	1.68	0.76
1:5:311:LYS:HE2	1:5:686:GLU:CB	2.15	0.76
1:n:311:LYS:HE2	1:n:686:GLU:CB	2.15	0.76
1:n:355:VAL:HG11	1:p:437:ASN:HB2	1.68	0.76
1:u:437:ASN:HB2	1:v:355:VAL:HG11	1.68	0.76
1:z:311:LYS:HE2	1:z:686:GLU:CB	2.15	0.76
1:C:437:ASN:HB2	1:2:355:VAL:HG11	1.68	0.76
1:G:437:ASN:HB2	1:I:355:VAL:HG11	1.68	0.76
1:I:311:LYS:HE2	1:I:686:GLU:CB	2.15	0.76
1:J:311:LYS:HE2	1:J:686:GLU:CB	2.15	0.76
1:1:311:LYS:HE2	1:1:686:GLU:CB	2.15	0.76
1:2:311:LYS:HE2	1:2:686:GLU:CB	2.15	0.76
1:e:311:LYS:HE2	1:e:686:GLU:CB	2.15	0.76
1:r:437:ASN:HB2	1:s:355:VAL:HG11	1.68	0.76
1:s:311:LYS:HE2	1:s:686:GLU:CB	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:311:LYS:HE2	1:v:686:GLU:CB	2.15	0.76
1:E:311:LYS:HE2	1:E:686:GLU:CB	2.15	0.76
1:H:355:VAL:HG11	1:Y:437:ASN:HB2	1.68	0.76
1:M:355:VAL:HG11	1:2:437:ASN:HB2	1.67	0.76
1:O:311:LYS:HE2	1:O:686:GLU:CB	2.15	0.76
1:4:311:LYS:HE2	1:4:686:GLU:CB	2.15	0.76
1:g:437:ASN:HB2	1:h:355:VAL:HG11	1.68	0.76
1:k:355:VAL:HG11	1:m:437:ASN:HB2	1.68	0.76
1:A:311:LYS:HE2	1:A:686:GLU:CB	2.15	0.76
1:S:311:LYS:HE2	1:S:686:GLU:CB	2.15	0.76
1:V:355:VAL:HG11	1:X:437:ASN:HB2	1.68	0.76
1:t:355:VAL:HG11	1:v:437:ASN:HB2	1.67	0.76
1:R:311:LYS:HE2	1:R:686:GLU:CB	2.15	0.76
1:T:311:LYS:HE2	1:T:686:GLU:CB	2.15	0.76
1:U:311:LYS:HE2	1:U:686:GLU:CB	2.15	0.76
1:Z:355:VAL:HG11	1:w:437:ASN:HB2	1.68	0.76
1:f:311:LYS:HE2	1:f:686:GLU:CB	2.15	0.76
1:k:437:ASN:HB2	1:l:355:VAL:HG11	1.68	0.76
1:y:311:LYS:HE2	1:y:686:GLU:CB	2.15	0.76
1:y:355:VAL:HG11	1:7:437:ASN:HB2	1.68	0.76
1:i:437:ASN:HB2	1:j:355:VAL:HG11	1.68	0.76
1:q:311:LYS:HE2	1:q:686:GLU:CB	2.15	0.76
1:H:437:ASN:HB2	1:W:355:VAL:HG11	1.68	0.76
1:K:311:LYS:HE2	1:K:686:GLU:CB	2.15	0.76
1:Z:311:LYS:HE2	1:Z:686:GLU:CB	2.15	0.76
1:Q:311:LYS:HE2	1:Q:686:GLU:CB	2.15	0.75
1:T:355:VAL:HG11	1:f:437:ASN:HB2	1.68	0.75
1:Z:437:ASN:HB2	1:x:355:VAL:HG11	1.68	0.75
1:3:355:VAL:HG11	1:j:437:ASN:HB2	1.68	0.75
1:d:583:ASN:ND2	1:d:592:GLN:OE1	2.20	0.75
1:j:311:LYS:HE2	1:j:686:GLU:CB	2.15	0.75
1:B:583:ASN:ND2	1:B:592:GLN:OE1	2.20	0.75
1:E:355:VAL:HG11	1:F:437:ASN:HB2	1.68	0.75
1:F:583:ASN:ND2	1:F:592:GLN:OE1	2.20	0.75
1:R:355:VAL:HG11	1:U:437:ASN:HB2	1.68	0.75
1:f:583:ASN:ND2	1:f:592:GLN:OE1	2.20	0.75
1:7:583:ASN:ND2	1:7:592:GLN:OE1	2.20	0.75
1:G:311:LYS:HE2	1:G:686:GLU:CB	2.15	0.75
1:P:583:ASN:ND2	1:P:592:GLN:OE1	2.20	0.75
1:R:583:ASN:ND2	1:R:592:GLN:OE1	2.20	0.75
1:b:583:ASN:ND2	1:b:592:GLN:OE1	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:311:LYS:HE2	1:c:686:GLU:CB	2.15	0.75
1:d:437:ASN:HB2	1:e:355:VAL:HG11	1.68	0.75
1:r:311:LYS:HE2	1:r:686:GLU:CB	2.15	0.75
1:8:583:ASN:ND2	1:8:592:GLN:OE1	2.20	0.75
1:E:437:ASN:HB2	1:Q:355:VAL:HG11	1.68	0.75
1:p:583:ASN:ND2	1:p:592:GLN:OE1	2.20	0.75
1:I:583:ASN:ND2	1:I:592:GLN:OE1	2.20	0.75
1:U:583:ASN:ND2	1:U:592:GLN:OE1	2.20	0.75
1:3:583:ASN:ND2	1:3:592:GLN:OE1	2.20	0.75
1:5:583:ASN:ND2	1:5:592:GLN:OE1	2.20	0.75
1:s:583:ASN:ND2	1:s:592:GLN:OE1	2.20	0.75
1:z:583:ASN:ND2	1:z:592:GLN:OE1	2.20	0.75
1:N:583:ASN:ND2	1:N:592:GLN:OE1	2.20	0.75
1:Q:583:ASN:ND2	1:Q:592:GLN:OE1	2.20	0.75
1:1:583:ASN:ND2	1:1:592:GLN:OE1	2.20	0.75
1:c:355:VAL:HG11	1:e:437:ASN:HB2	1.68	0.75
1:c:583:ASN:ND2	1:c:592:GLN:OE1	2.20	0.75
1:x:583:ASN:ND2	1:x:592:GLN:OE1	2.20	0.75
1:D:583:ASN:ND2	1:D:592:GLN:OE1	2.20	0.75
1:E:583:ASN:ND2	1:E:592:GLN:OE1	2.20	0.75
1:W:437:ASN:HB2	1:Y:355:VAL:HG11	1.67	0.75
1:a:583:ASN:ND2	1:a:592:GLN:OE1	2.20	0.75
1:O:355:VAL:HG11	1:h:437:ASN:HB2	1.68	0.75
1:e:583:ASN:ND2	1:e:592:GLN:OE1	2.20	0.75
1:k:583:ASN:ND2	1:k:592:GLN:OE1	2.20	0.75
1:l:437:ASN:HB2	1:m:355:VAL:HG11	1.67	0.75
1:y:437:ASN:HB2	1:z:355:VAL:HG11	1.68	0.75
1:y:583:ASN:ND2	1:y:592:GLN:OE1	2.20	0.75
1:H:583:ASN:ND2	1:H:592:GLN:OE1	2.20	0.75
1:K:583:ASN:ND2	1:K:592:GLN:OE1	2.20	0.75
1:O:583:ASN:ND2	1:O:592:GLN:OE1	2.20	0.75
1:S:437:ASN:HB2	1:U:355:VAL:HG11	1.67	0.75
1:S:583:ASN:ND2	1:S:592:GLN:OE1	2.20	0.75
1:T:583:ASN:ND2	1:T:592:GLN:OE1	2.20	0.75
1:4:583:ASN:ND2	1:4:592:GLN:OE1	2.20	0.75
1:A:437:ASN:HB2	1:G:355:VAL:HG11	1.67	0.74
1:K:437:ASN:HB2	1:1:355:VAL:HG11	1.68	0.74
1:2:583:ASN:ND2	1:2:592:GLN:OE1	2.20	0.74
1:q:355:VAL:HG11	1:s:437:ASN:HB2	1.67	0.74
1:C:583:ASN:ND2	1:C:592:GLN:OE1	2.20	0.74
1:J:583:ASN:ND2	1:J:592:GLN:OE1	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:437:ASN:HB2	1:4:355:VAL:HG11	1.68	0.74
1:o:437:ASN:HB2	1:p:355:VAL:HG11	1.68	0.74
1:u:583:ASN:ND2	1:u:592:GLN:OE1	2.20	0.74
1:D:355:VAL:HG11	1:P:437:ASN:HB2	1.67	0.74
1:3:437:ASN:HB2	1:i:355:VAL:HG11	1.68	0.74
1:n:583:ASN:ND2	1:n:592:GLN:OE1	2.20	0.74
1:r:583:ASN:ND2	1:r:592:GLN:OE1	2.20	0.74
1:v:583:ASN:ND2	1:v:592:GLN:OE1	2.20	0.74
1:w:355:VAL:HG11	1:x:437:ASN:HB2	1.68	0.74
1:A:355:VAL:HG11	1:I:437:ASN:HB2	1.67	0.74
1:B:355:VAL:HG11	1:L:437:ASN:HB2	1.68	0.74
1:D:437:ASN:HB2	1:N:355:VAL:HG11	1.68	0.74
1:n:437:ASN:HB2	1:o:355:VAL:HG11	1.68	0.74
1:o:583:ASN:ND2	1:o:592:GLN:OE1	2.20	0.74
1:G:583:ASN:ND2	1:G:592:GLN:OE1	2.20	0.74
1:L:583:ASN:ND2	1:L:592:GLN:OE1	2.20	0.74
1:X:355:VAL:HG11	1:4:437:ASN:HB2	1.68	0.74
1:Y:583:ASN:ND2	1:Y:592:GLN:OE1	2.20	0.74
1:5:355:VAL:HG11	1:a:437:ASN:HB2	1.68	0.74
1:a:355:VAL:HG11	1:b:437:ASN:HB2	1.67	0.74
1:i:583:ASN:ND2	1:i:592:GLN:OE1	2.20	0.74
1:j:583:ASN:ND2	1:j:592:GLN:OE1	2.20	0.74
1:q:437:ASN:HB2	1:r:355:VAL:HG11	1.68	0.74
1:t:583:ASN:ND2	1:t:592:GLN:OE1	2.20	0.74
1:A:583:ASN:ND2	1:A:592:GLN:OE1	2.20	0.74
1:O:437:ASN:HB2	1:g:355:VAL:HG11	1.68	0.74
1:Z:583:ASN:ND2	1:Z:592:GLN:OE1	2.20	0.74
1:J:437:ASN:HB2	1:L:355:VAL:HG11	1.68	0.74
1:M:583:ASN:ND2	1:M:592:GLN:OE1	2.20	0.74
1:V:583:ASN:ND2	1:V:592:GLN:OE1	2.20	0.74
1:m:583:ASN:ND2	1:m:592:GLN:OE1	2.20	0.74
1:w:583:ASN:ND2	1:w:592:GLN:OE1	2.20	0.74
1:X:583:ASN:ND2	1:X:592:GLN:OE1	2.20	0.74
1:h:583:ASN:ND2	1:h:592:GLN:OE1	2.20	0.74
1:l:583:ASN:ND2	1:l:592:GLN:OE1	2.20	0.74
1:q:583:ASN:ND2	1:q:592:GLN:OE1	2.20	0.74
1:W:583:ASN:ND2	1:W:592:GLN:OE1	2.20	0.74
1:g:583:ASN:ND2	1:g:592:GLN:OE1	2.20	0.74
1:C:355:VAL:HG11	1:M:437:ASN:HB2	1.68	0.73
1:t:437:ASN:HB2	1:u:355:VAL:HG11	1.68	0.73
1:A:252:TYR:OH	1:A:374:ILE:O	2.07	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:252:TYR:OH	1:L:374:ILE:O	2.07	0.73
1:S:252:TYR:OH	1:S:374:ILE:O	2.07	0.73
1:b:252:TYR:OH	1:b:374:ILE:O	2.07	0.73
1:q:252:TYR:OH	1:q:374:ILE:O	2.07	0.73
1:P:252:TYR:OH	1:P:374:ILE:O	2.07	0.73
1:T:252:TYR:OH	1:T:374:ILE:O	2.07	0.73
1:o:252:TYR:OH	1:o:374:ILE:O	2.07	0.73
1:v:252:TYR:OH	1:v:374:ILE:O	2.07	0.73
1:O:252:TYR:OH	1:O:374:ILE:O	2.07	0.73
1:1:252:TYR:OH	1:1:374:ILE:O	2.07	0.73
1:2:252:TYR:OH	1:2:374:ILE:O	2.07	0.73
1:4:252:TYR:OH	1:4:374:ILE:O	2.07	0.73
1:z:252:TYR:OH	1:z:374:ILE:O	2.07	0.72
1:C:252:TYR:OH	1:C:374:ILE:O	2.07	0.72
1:X:252:TYR:OH	1:X:374:ILE:O	2.07	0.72
1:g:252:TYR:OH	1:g:374:ILE:O	2.07	0.72
1:s:252:TYR:OH	1:s:374:ILE:O	2.07	0.72
1:F:252:TYR:OH	1:F:374:ILE:O	2.07	0.72
1:I:252:TYR:OH	1:I:374:ILE:O	2.07	0.72
1:G:252:TYR:OH	1:G:374:ILE:O	2.07	0.72
1:K:355:VAL:HG11	1:8:437:ASN:HB2	1.71	0.72
1:d:252:TYR:OH	1:d:374:ILE:O	2.07	0.72
1:r:252:TYR:OH	1:r:374:ILE:O	2.07	0.72
1:u:252:TYR:OH	1:u:374:ILE:O	2.07	0.72
1:N:252:TYR:OH	1:N:374:ILE:O	2.07	0.72
1:5:252:TYR:OH	1:5:374:ILE:O	2.07	0.72
1:J:252:TYR:OH	1:J:374:ILE:O	2.07	0.72
1:n:252:TYR:OH	1:n:374:ILE:O	2.07	0.72
1:p:252:TYR:OH	1:p:374:ILE:O	2.07	0.72
1:B:252:TYR:OH	1:B:374:ILE:O	2.07	0.72
1:R:252:TYR:OH	1:R:374:ILE:O	2.07	0.72
1:c:252:TYR:OH	1:c:374:ILE:O	2.07	0.72
1:f:252:TYR:OH	1:f:374:ILE:O	2.07	0.72
1:N:340:SER:OG	1:N:673:GLN:NE2	2.23	0.72
1:Q:252:TYR:OH	1:Q:374:ILE:O	2.07	0.72
1:Y:252:TYR:OH	1:Y:374:ILE:O	2.07	0.72
1:Y:340:SER:OG	1:Y:673:GLN:NE2	2.23	0.72
1:1:340:SER:OG	1:1:673:GLN:NE2	2.23	0.72
1:m:252:TYR:OH	1:m:374:ILE:O	2.07	0.72
1:m:340:SER:OG	1:m:673:GLN:NE2	2.23	0.72
1:A:340:SER:OG	1:A:673:GLN:NE2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:340:SER:OG	1:V:673:GLN:NE2	2.23	0.71
1:Z:340:SER:OG	1:Z:673:GLN:NE2	2.23	0.71
1:5:340:SER:OG	1:5:673:GLN:NE2	2.23	0.71
1:h:340:SER:OG	1:h:673:GLN:NE2	2.23	0.71
1:q:340:SER:OG	1:q:673:GLN:NE2	2.23	0.71
1:w:340:SER:OG	1:w:673:GLN:NE2	2.23	0.71
1:z:340:SER:OG	1:z:673:GLN:NE2	2.23	0.71
1:E:340:SER:OG	1:E:673:GLN:NE2	2.23	0.71
1:F:340:SER:OG	1:F:673:GLN:NE2	2.23	0.71
1:3:252:TYR:OH	1:3:374:ILE:O	2.07	0.71
1:d:340:SER:OG	1:d:673:GLN:NE2	2.23	0.71
1:h:252:TYR:OH	1:h:374:ILE:O	2.07	0.71
1:i:340:SER:OG	1:i:673:GLN:NE2	2.23	0.71
1:j:340:SER:OG	1:j:673:GLN:NE2	2.23	0.71
1:x:252:TYR:OH	1:x:374:ILE:O	2.07	0.71
1:C:340:SER:OG	1:C:673:GLN:NE2	2.23	0.71
1:c:340:SER:OG	1:c:673:GLN:NE2	2.23	0.71
1:e:340:SER:OG	1:e:673:GLN:NE2	2.23	0.71
1:P:340:SER:OG	1:P:673:GLN:NE2	2.23	0.71
1:R:340:SER:OG	1:R:673:GLN:NE2	2.23	0.71
1:4:340:SER:OG	1:4:673:GLN:NE2	2.23	0.71
1:u:340:SER:OG	1:u:673:GLN:NE2	2.23	0.71
1:O:340:SER:OG	1:O:673:GLN:NE2	2.23	0.71
1:e:252:TYR:OH	1:e:374:ILE:O	2.07	0.71
1:D:340:SER:OG	1:D:673:GLN:NE2	2.23	0.71
1:Q:340:SER:OG	1:Q:673:GLN:NE2	2.23	0.71
1:S:340:SER:OG	1:S:673:GLN:NE2	2.23	0.71
1:U:252:TYR:OH	1:U:374:ILE:O	2.07	0.71
1:V:252:TYR:OH	1:V:374:ILE:O	2.07	0.71
1:b:340:SER:OG	1:b:673:GLN:NE2	2.23	0.71
1:f:340:SER:OG	1:f:673:GLN:NE2	2.23	0.71
1:E:252:TYR:OH	1:E:374:ILE:O	2.07	0.71
1:L:340:SER:OG	1:L:673:GLN:NE2	2.23	0.71
1:T:340:SER:OG	1:T:673:GLN:NE2	2.23	0.71
1:a:340:SER:OG	1:a:673:GLN:NE2	2.23	0.71
1:p:340:SER:OG	1:p:673:GLN:NE2	2.23	0.71
1:x:340:SER:OG	1:x:673:GLN:NE2	2.23	0.71
1:J:340:SER:OG	1:J:673:GLN:NE2	2.23	0.71
1:M:252:TYR:OH	1:M:374:ILE:O	2.07	0.71
1:M:340:SER:OG	1:M:673:GLN:NE2	2.23	0.71
1:U:340:SER:OG	1:U:673:GLN:NE2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:340:SER:OG	1:2:673:GLN:NE2	2.23	0.71
1:3:340:SER:OG	1:3:673:GLN:NE2	2.23	0.71
1:n:340:SER:OG	1:n:673:GLN:NE2	2.23	0.71
1:s:340:SER:OG	1:s:673:GLN:NE2	2.23	0.71
1:t:340:SER:OG	1:t:673:GLN:NE2	2.23	0.71
1:B:340:SER:OG	1:B:673:GLN:NE2	2.23	0.71
1:G:340:SER:OG	1:G:673:GLN:NE2	2.23	0.71
1:I:340:SER:OG	1:I:673:GLN:NE2	2.23	0.71
1:o:340:SER:OG	1:o:673:GLN:NE2	2.23	0.71
1:v:340:SER:OG	1:v:673:GLN:NE2	2.23	0.71
1:H:340:SER:OG	1:H:673:GLN:NE2	2.23	0.71
1:r:340:SER:OG	1:r:673:GLN:NE2	2.23	0.71
1:t:252:TYR:OH	1:t:374:ILE:O	2.07	0.71
1:i:252:TYR:OH	1:i:374:ILE:O	2.07	0.70
1:l:340:SER:OG	1:l:673:GLN:NE2	2.23	0.70
1:7:340:SER:OG	1:7:673:GLN:NE2	2.23	0.70
1:8:340:SER:OG	1:8:673:GLN:NE2	2.23	0.70
1:k:340:SER:OG	1:k:673:GLN:NE2	2.23	0.70
1:7:252:TYR:OH	1:7:374:ILE:O	2.07	0.70
1:W:340:SER:OG	1:W:673:GLN:NE2	2.23	0.70
1:g:262:ASN:O	1:g:266:GLY:N	2.24	0.70
1:X:262:ASN:O	1:X:266:GLY:N	2.24	0.70
1:j:252:TYR:OH	1:j:374:ILE:O	2.07	0.70
1:l:252:TYR:OH	1:l:374:ILE:O	2.07	0.70
1:w:252:TYR:OH	1:w:374:ILE:O	2.07	0.70
1:8:252:TYR:OH	1:8:374:ILE:O	2.07	0.70
1:X:340:SER:OG	1:X:673:GLN:NE2	2.23	0.70
1:Z:252:TYR:OH	1:Z:374:ILE:O	2.07	0.70
1:W:252:TYR:OH	1:W:374:ILE:O	2.07	0.70
1:g:340:SER:OG	1:g:673:GLN:NE2	2.23	0.70
1:K:340:SER:OG	1:K:673:GLN:NE2	2.23	0.70
1:4:262:ASN:O	1:4:266:GLY:N	2.24	0.70
1:y:340:SER:OG	1:y:673:GLN:NE2	2.23	0.70
1:D:252:TYR:OH	1:D:374:ILE:O	2.07	0.70
1:O:262:ASN:O	1:O:266:GLY:N	2.24	0.70
1:y:252:TYR:OH	1:y:374:ILE:O	2.07	0.70
1:a:252:TYR:OH	1:a:374:ILE:O	2.07	0.70
1:s:262:ASN:O	1:s:266:GLY:N	2.24	0.69
1:K:252:TYR:OH	1:K:374:ILE:O	2.07	0.69
1:k:252:TYR:OH	1:k:374:ILE:O	2.07	0.69
1:S:262:ASN:O	1:S:266:GLY:N	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:262:ASN:O	1:T:266:GLY:N	2.24	0.69
1:Y:262:ASN:O	1:Y:266:GLY:N	2.24	0.69
1:H:262:ASN:O	1:H:266:GLY:N	2.24	0.69
1:H:252:TYR:OH	1:H:374:ILE:O	2.07	0.69
1:m:262:ASN:O	1:m:266:GLY:N	2.24	0.69
1:K:262:ASN:O	1:K:266:GLY:N	2.24	0.69
1:k:262:ASN:O	1:k:266:GLY:N	2.24	0.69
1:A:262:ASN:O	1:A:266:GLY:N	2.24	0.69
1:P:262:ASN:O	1:P:266:GLY:N	2.24	0.69
1:u:262:ASN:O	1:u:266:GLY:N	2.25	0.69
1:y:262:ASN:O	1:y:266:GLY:N	2.25	0.69
1:C:262:ASN:O	1:C:266:GLY:N	2.25	0.69
1:b:262:ASN:O	1:b:266:GLY:N	2.24	0.69
1:q:262:ASN:O	1:q:266:GLY:N	2.24	0.69
1:8:262:ASN:O	1:8:266:GLY:N	2.24	0.69
1:L:262:ASN:O	1:L:266:GLY:N	2.24	0.68
1:7:262:ASN:O	1:7:266:GLY:N	2.24	0.68
1:D:262:ASN:O	1:D:266:GLY:N	2.24	0.68
1:d:262:ASN:O	1:d:266:GLY:N	2.24	0.68
1:o:262:ASN:O	1:o:266:GLY:N	2.24	0.68
1:F:262:ASN:O	1:F:266:GLY:N	2.24	0.68
1:W:262:ASN:O	1:W:266:GLY:N	2.24	0.68
1:a:262:ASN:O	1:a:266:GLY:N	2.24	0.68
1:N:262:ASN:O	1:N:266:GLY:N	2.24	0.68
1:1:262:ASN:O	1:1:266:GLY:N	2.24	0.68
1:2:262:ASN:O	1:2:266:GLY:N	2.24	0.68
1:l:262:ASN:O	1:l:266:GLY:N	2.24	0.68
1:5:262:ASN:O	1:5:266:GLY:N	2.24	0.68
1:v:262:ASN:O	1:v:266:GLY:N	2.24	0.68
1:z:262:ASN:O	1:z:266:GLY:N	2.25	0.68
1:R:345:PHE:HB3	1:R:402:SER:HA	1.77	0.67
1:R:694:ARG:NH1	1:R:698:GLU:OE1	2.28	0.67
1:X:345:PHE:HB3	1:X:402:SER:HA	1.77	0.67
1:1:345:PHE:HB3	1:1:402:SER:HA	1.77	0.67
1:g:345:PHE:HB3	1:g:402:SER:HA	1.77	0.67
1:j:694:ARG:NH1	1:j:698:GLU:OE1	2.28	0.67
1:z:345:PHE:HB3	1:z:402:SER:HA	1.77	0.67
1:H:345:PHE:HB3	1:H:402:SER:HA	1.77	0.67
1:H:694:ARG:NH1	1:H:698:GLU:OE1	2.28	0.67
1:O:694:ARG:NH1	1:O:698:GLU:OE1	2.28	0.67
1:S:694:ARG:NH1	1:S:698:GLU:OE1	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:694:ARG:NH1	1:T:698:GLU:OE1	2.28	0.67
1:W:345:PHE:HB3	1:W:402:SER:HA	1.77	0.67
1:W:694:ARG:NH1	1:W:698:GLU:OE1	2.28	0.67
1:c:345:PHE:HB3	1:c:402:SER:HA	1.77	0.67
1:f:345:PHE:HB3	1:f:402:SER:HA	1.77	0.67
1:f:694:ARG:NH1	1:f:698:GLU:OE1	2.28	0.67
1:k:345:PHE:HB3	1:k:402:SER:HA	1.77	0.67
1:k:694:ARG:NH1	1:k:698:GLU:OE1	2.28	0.67
1:I:262:ASN:O	1:I:266:GLY:N	2.24	0.67
1:J:345:PHE:HB3	1:J:402:SER:HA	1.77	0.67
1:N:694:ARG:NH1	1:N:698:GLU:OE1	2.28	0.67
1:S:345:PHE:HB3	1:S:402:SER:HA	1.77	0.67
1:U:694:ARG:NH1	1:U:698:GLU:OE1	2.28	0.67
1:Y:694:ARG:NH1	1:Y:698:GLU:OE1	2.28	0.67
1:Z:345:PHE:HB3	1:Z:402:SER:HA	1.77	0.67
1:Z:694:ARG:NH1	1:Z:698:GLU:OE1	2.28	0.67
1:3:694:ARG:NH1	1:3:698:GLU:OE1	2.28	0.67
1:4:694:ARG:NH1	1:4:698:GLU:OE1	2.28	0.67
1:5:694:ARG:NH1	1:5:698:GLU:OE1	2.28	0.67
1:b:345:PHE:HB3	1:b:402:SER:HA	1.77	0.67
1:j:345:PHE:HB3	1:j:402:SER:HA	1.77	0.67
1:l:345:PHE:HB3	1:l:402:SER:HA	1.77	0.67
1:l:694:ARG:NH1	1:l:698:GLU:OE1	2.28	0.67
1:n:345:PHE:HB3	1:n:402:SER:HA	1.77	0.67
1:q:694:ARG:NH1	1:q:698:GLU:OE1	2.28	0.67
1:7:694:ARG:NH1	1:7:698:GLU:OE1	2.28	0.67
1:A:694:ARG:NH1	1:A:698:GLU:OE1	2.28	0.67
1:Q:345:PHE:HB3	1:Q:402:SER:HA	1.77	0.67
1:T:345:PHE:HB3	1:T:402:SER:HA	1.77	0.67
1:i:694:ARG:NH1	1:i:698:GLU:OE1	2.28	0.67
1:m:694:ARG:NH1	1:m:698:GLU:OE1	2.28	0.67
1:n:694:ARG:NH1	1:n:698:GLU:OE1	2.28	0.67
1:p:345:PHE:HB3	1:p:402:SER:HA	1.77	0.67
1:t:694:ARG:NH1	1:t:698:GLU:OE1	2.28	0.67
1:x:694:ARG:NH1	1:x:698:GLU:OE1	2.28	0.67
1:8:694:ARG:NH1	1:8:698:GLU:OE1	2.28	0.67
1:B:345:PHE:HB3	1:B:402:SER:HA	1.77	0.67
1:J:694:ARG:NH1	1:J:698:GLU:OE1	2.28	0.67
1:L:345:PHE:HB3	1:L:402:SER:HA	1.77	0.67
1:M:694:ARG:NH1	1:M:698:GLU:OE1	2.28	0.67
1:P:345:PHE:HB3	1:P:402:SER:HA	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:694:ARG:NH1	1:2:698:GLU:OE1	2.28	0.67
1:e:694:ARG:NH1	1:e:698:GLU:OE1	2.28	0.67
1:u:345:PHE:HB3	1:u:402:SER:HA	1.77	0.67
1:v:694:ARG:NH1	1:v:698:GLU:OE1	2.28	0.67
1:w:694:ARG:NH1	1:w:698:GLU:OE1	2.28	0.67
1:C:345:PHE:HB3	1:C:402:SER:HA	1.77	0.67
1:E:694:ARG:NH1	1:E:698:GLU:OE1	2.28	0.67
1:G:694:ARG:NH1	1:G:698:GLU:OE1	2.28	0.67
1:P:694:ARG:NH1	1:P:698:GLU:OE1	2.28	0.67
1:g:694:ARG:NH1	1:g:698:GLU:OE1	2.28	0.67
1:h:345:PHE:HB3	1:h:402:SER:HA	1.77	0.67
1:r:345:PHE:HB3	1:r:402:SER:HA	1.77	0.67
1:r:694:ARG:NH1	1:r:698:GLU:OE1	2.28	0.67
1:G:345:PHE:HB3	1:G:402:SER:HA	1.77	0.67
1:V:345:PHE:HB3	1:V:402:SER:HA	1.77	0.67
1:X:694:ARG:NH1	1:X:698:GLU:OE1	2.28	0.67
1:b:694:ARG:NH1	1:b:698:GLU:OE1	2.28	0.67
1:c:694:ARG:NH1	1:c:698:GLU:OE1	2.28	0.67
1:e:345:PHE:HB3	1:e:402:SER:HA	1.77	0.67
1:h:694:ARG:NH1	1:h:698:GLU:OE1	2.28	0.67
1:o:345:PHE:HB3	1:o:402:SER:HA	1.77	0.67
1:o:694:ARG:NH1	1:o:698:GLU:OE1	2.28	0.67
1:E:345:PHE:HB3	1:E:402:SER:HA	1.77	0.67
1:K:694:ARG:NH1	1:K:698:GLU:OE1	2.28	0.67
1:L:694:ARG:NH1	1:L:698:GLU:OE1	2.28	0.67
1:N:345:PHE:HB3	1:N:402:SER:HA	1.77	0.67
1:Q:694:ARG:NH1	1:Q:698:GLU:OE1	2.28	0.67
1:V:694:ARG:NH1	1:V:698:GLU:OE1	2.28	0.67
1:1:694:ARG:NH1	1:1:698:GLU:OE1	2.28	0.67
1:Y:345:PHE:HB3	1:Y:402:SER:HA	1.77	0.66
1:5:345:PHE:HB3	1:5:402:SER:HA	1.77	0.66
1:z:694:ARG:NH1	1:z:698:GLU:OE1	2.28	0.66
1:B:694:ARG:NH1	1:B:698:GLU:OE1	2.28	0.66
1:C:694:ARG:NH1	1:C:698:GLU:OE1	2.28	0.66
1:D:694:ARG:NH1	1:D:698:GLU:OE1	2.28	0.66
1:a:694:ARG:NH1	1:a:698:GLU:OE1	2.28	0.66
1:m:345:PHE:HB3	1:m:402:SER:HA	1.77	0.66
1:y:694:ARG:NH1	1:y:698:GLU:OE1	2.28	0.66
1:I:345:PHE:HB3	1:I:402:SER:HA	1.77	0.66
1:Q:311:LYS:HE2	1:Q:686:GLU:HB2	1.78	0.66
1:p:694:ARG:NH1	1:p:698:GLU:OE1	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:694:ARG:NH1	1:u:698:GLU:OE1	2.28	0.66
1:w:345:PHE:HB3	1:w:402:SER:HA	1.77	0.66
1:a:345:PHE:HB3	1:a:402:SER:HA	1.77	0.66
1:c:311:LYS:HE2	1:c:686:GLU:HB2	1.78	0.66
1:q:345:PHE:HB3	1:q:402:SER:HA	1.77	0.66
1:s:345:PHE:HB3	1:s:402:SER:HA	1.77	0.66
1:A:345:PHE:HB3	1:A:402:SER:HA	1.77	0.66
1:E:262:ASN:O	1:E:266:GLY:N	2.24	0.66
1:I:694:ARG:NH1	1:I:698:GLU:OE1	2.28	0.66
1:O:345:PHE:HB3	1:O:402:SER:HA	1.77	0.66
1:U:311:LYS:HE2	1:U:686:GLU:HB2	1.78	0.66
1:4:345:PHE:HB3	1:4:402:SER:HA	1.77	0.66
1:e:262:ASN:O	1:e:266:GLY:N	2.24	0.66
1:i:345:PHE:HB3	1:i:402:SER:HA	1.77	0.66
1:t:311:LYS:HE2	1:t:686:GLU:HB2	1.78	0.66
1:D:345:PHE:HB3	1:D:402:SER:HA	1.77	0.66
1:E:322:VAL:HG11	1:E:673:GLN:HE21	1.61	0.66
1:M:311:LYS:HE2	1:M:686:GLU:HB2	1.78	0.66
1:M:345:PHE:HB3	1:M:402:SER:HA	1.77	0.66
1:U:262:ASN:O	1:U:266:GLY:N	2.25	0.66
1:2:345:PHE:HB3	1:2:402:SER:HA	1.77	0.66
1:n:262:ASN:O	1:n:266:GLY:N	2.24	0.66
1:s:694:ARG:NH1	1:s:698:GLU:OE1	2.28	0.66
1:y:345:PHE:HB3	1:y:402:SER:HA	1.77	0.66
1:F:694:ARG:NH1	1:F:698:GLU:OE1	2.28	0.66
1:J:262:ASN:O	1:J:266:GLY:N	2.24	0.66
1:J:322:VAL:HG11	1:J:673:GLN:HE21	1.61	0.66
1:K:345:PHE:HB3	1:K:402:SER:HA	1.77	0.66
1:4:322:VAL:HG11	1:4:673:GLN:HE21	1.61	0.66
1:d:694:ARG:NH1	1:d:698:GLU:OE1	2.28	0.66
1:e:322:VAL:HG11	1:e:673:GLN:HE21	1.61	0.66
1:g:311:LYS:HE2	1:g:686:GLU:HB2	1.78	0.66
1:t:345:PHE:HB3	1:t:402:SER:HA	1.77	0.66
1:u:322:VAL:HG11	1:u:673:GLN:HE21	1.61	0.66
1:v:345:PHE:HB3	1:v:402:SER:HA	1.77	0.66
1:C:322:VAL:HG11	1:C:673:GLN:HE21	1.61	0.66
1:J:564:GLU:OE2	1:J:567:LYS:NZ	2.29	0.66
1:L:322:VAL:HG11	1:L:673:GLN:HE21	1.61	0.66
1:O:322:VAL:HG11	1:O:673:GLN:HE21	1.61	0.66
1:V:262:ASN:O	1:V:266:GLY:N	2.24	0.66
1:X:311:LYS:HE2	1:X:686:GLU:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:311:LYS:HE2	1:i:686:GLU:HB2	1.78	0.66
1:i:564:GLU:OE2	1:i:567:LYS:NZ	2.29	0.66
1:n:322:VAL:HG11	1:n:673:GLN:HE21	1.61	0.66
1:n:564:GLU:OE2	1:n:567:LYS:NZ	2.29	0.66
1:w:311:LYS:HE2	1:w:686:GLU:HB2	1.78	0.66
1:H:564:GLU:OE2	1:H:567:LYS:NZ	2.29	0.66
1:P:322:VAL:HG11	1:P:673:GLN:HE21	1.61	0.66
1:U:322:VAL:HG11	1:U:673:GLN:HE21	1.61	0.66
1:Z:564:GLU:OE2	1:Z:567:LYS:NZ	2.29	0.66
1:b:322:VAL:HG11	1:b:673:GLN:HE21	1.61	0.66
1:j:564:GLU:OE2	1:j:567:LYS:NZ	2.29	0.66
1:k:564:GLU:OE2	1:k:567:LYS:NZ	2.29	0.66
1:o:322:VAL:HG11	1:o:673:GLN:HE21	1.61	0.66
1:r:322:VAL:HG11	1:r:673:GLN:HE21	1.61	0.66
1:w:262:ASN:O	1:w:266:GLY:N	2.24	0.66
1:w:564:GLU:OE2	1:w:567:LYS:NZ	2.29	0.66
1:7:345:PHE:HB3	1:7:402:SER:HA	1.77	0.66
1:G:322:VAL:HG11	1:G:673:GLN:HE21	1.61	0.66
1:K:311:LYS:HE2	1:K:686:GLU:HB2	1.78	0.66
1:Q:262:ASN:O	1:Q:266:GLY:N	2.24	0.66
1:Z:322:VAL:HG11	1:Z:673:GLN:HE21	1.61	0.66
1:i:262:ASN:O	1:i:266:GLY:N	2.24	0.66
1:i:322:VAL:HG11	1:i:673:GLN:HE21	1.61	0.66
1:j:322:VAL:HG11	1:j:673:GLN:HE21	1.61	0.66
1:k:311:LYS:HE2	1:k:686:GLU:HB2	1.78	0.66
1:p:262:ASN:O	1:p:266:GLY:N	2.24	0.66
1:y:311:LYS:HE2	1:y:686:GLU:HB2	1.78	0.66
1:B:262:ASN:O	1:B:266:GLY:N	2.24	0.65
1:T:564:GLU:OE2	1:T:567:LYS:NZ	2.29	0.65
1:1:322:VAL:HG11	1:1:673:GLN:HE21	1.61	0.65
1:3:322:VAL:HG11	1:3:673:GLN:HE21	1.61	0.65
1:3:345:PHE:HB3	1:3:402:SER:HA	1.77	0.65
1:a:564:GLU:OE2	1:a:567:LYS:NZ	2.29	0.65
1:c:262:ASN:O	1:c:266:GLY:N	2.24	0.65
1:g:564:GLU:OE2	1:g:567:LYS:NZ	2.29	0.65
1:h:262:ASN:O	1:h:266:GLY:N	2.25	0.65
1:o:311:LYS:HE2	1:o:686:GLU:HB2	1.78	0.65
1:w:322:VAL:HG11	1:w:673:GLN:HE21	1.61	0.65
1:x:322:VAL:HG11	1:x:673:GLN:HE21	1.61	0.65
1:x:345:PHE:HB3	1:x:402:SER:HA	1.77	0.65
1:7:311:LYS:HE2	1:7:686:GLU:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:311:LYS:HE2	1:8:686:GLU:HB2	1.78	0.65
1:8:345:PHE:HB3	1:8:402:SER:HA	1.77	0.65
1:D:564:GLU:OE2	1:D:567:LYS:NZ	2.29	0.65
1:H:311:LYS:HE2	1:H:686:GLU:HB2	1.78	0.65
1:K:322:VAL:HG11	1:K:673:GLN:HE21	1.61	0.65
1:L:311:LYS:HE2	1:L:686:GLU:HB2	1.78	0.65
1:M:564:GLU:OE2	1:M:567:LYS:NZ	2.29	0.65
1:V:322:VAL:HG11	1:V:673:GLN:HE21	1.61	0.65
1:X:564:GLU:OE2	1:X:567:LYS:NZ	2.29	0.65
1:3:311:LYS:HE2	1:3:686:GLU:HB2	1.78	0.65
1:d:345:PHE:HB3	1:d:402:SER:HA	1.77	0.65
1:d:564:GLU:OE2	1:d:567:LYS:NZ	2.29	0.65
1:y:322:VAL:HG11	1:y:673:GLN:HE21	1.61	0.65
1:z:322:VAL:HG11	1:z:673:GLN:HE21	1.61	0.65
1:z:564:GLU:OE2	1:z:567:LYS:NZ	2.29	0.65
1:8:564:GLU:OE2	1:8:567:LYS:NZ	2.29	0.65
1:F:345:PHE:HB3	1:F:402:SER:HA	1.77	0.65
1:F:564:GLU:OE2	1:F:567:LYS:NZ	2.29	0.65
1:Q:322:VAL:HG11	1:Q:673:GLN:HE21	1.61	0.65
1:S:564:GLU:OE2	1:S:567:LYS:NZ	2.29	0.65
1:Y:322:VAL:HG11	1:Y:673:GLN:HE21	1.61	0.65
1:1:564:GLU:OE2	1:1:567:LYS:NZ	2.29	0.65
1:2:311:LYS:HE2	1:2:686:GLU:HB2	1.78	0.65
1:b:311:LYS:HE2	1:b:686:GLU:HB2	1.78	0.65
1:c:322:VAL:HG11	1:c:673:GLN:HE21	1.61	0.65
1:g:322:VAL:HG11	1:g:673:GLN:HE21	1.61	0.65
1:h:322:VAL:HG11	1:h:673:GLN:HE21	1.61	0.65
1:l:322:VAL:HG11	1:l:673:GLN:HE21	1.61	0.65
1:m:322:VAL:HG11	1:m:673:GLN:HE21	1.61	0.65
1:t:564:GLU:OE2	1:t:567:LYS:NZ	2.29	0.65
1:x:311:LYS:HE2	1:x:686:GLU:HB2	1.78	0.65
1:D:322:VAL:HG11	1:D:673:GLN:HE21	1.61	0.65
1:P:311:LYS:HE2	1:P:686:GLU:HB2	1.78	0.65
1:U:564:GLU:OE2	1:U:567:LYS:NZ	2.29	0.65
1:W:322:VAL:HG11	1:W:673:GLN:HE21	1.61	0.65
1:X:322:VAL:HG11	1:X:673:GLN:HE21	1.61	0.65
1:Y:311:LYS:HE2	1:Y:686:GLU:HB2	1.78	0.65
1:k:322:VAL:HG11	1:k:673:GLN:HE21	1.61	0.65
1:t:322:VAL:HG11	1:t:673:GLN:HE21	1.61	0.65
1:v:311:LYS:HE2	1:v:686:GLU:HB2	1.78	0.65
1:x:262:ASN:O	1:x:266:GLY:N	2.24	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:564:GLU:OE2	1:7:567:LYS:NZ	2.29	0.65
1:H:322:VAL:HG11	1:H:673:GLN:HE21	1.61	0.65
1:N:311:LYS:HE2	1:N:686:GLU:HB2	1.78	0.65
1:O:564:GLU:OE2	1:O:567:LYS:NZ	2.29	0.65
1:Q:564:GLU:OE2	1:Q:567:LYS:NZ	2.29	0.65
1:4:564:GLU:OE2	1:4:567:LYS:NZ	2.29	0.65
1:a:322:VAL:HG11	1:a:673:GLN:HE21	1.61	0.65
1:m:311:LYS:HE2	1:m:686:GLU:HB2	1.78	0.65
1:A:564:GLU:OE2	1:A:567:LYS:NZ	2.29	0.65
1:I:564:GLU:OE2	1:I:567:LYS:NZ	2.29	0.65
1:M:322:VAL:HG11	1:M:673:GLN:HE21	1.61	0.65
1:O:311:LYS:HE2	1:O:686:GLU:HB2	1.78	0.65
1:5:311:LYS:HE2	1:5:686:GLU:HB2	1.78	0.65
1:q:311:LYS:HE2	1:q:686:GLU:HB2	1.78	0.65
1:s:564:GLU:OE2	1:s:567:LYS:NZ	2.29	0.65
1:C:311:LYS:HE2	1:C:686:GLU:HB2	1.78	0.65
1:3:564:GLU:OE2	1:3:567:LYS:NZ	2.29	0.65
1:c:564:GLU:OE2	1:c:567:LYS:NZ	2.29	0.65
1:e:311:LYS:HE2	1:e:686:GLU:HB2	1.78	0.65
1:f:311:LYS:HE2	1:f:686:GLU:HB2	1.78	0.65
1:m:564:GLU:OE2	1:m:567:LYS:NZ	2.29	0.65
1:q:564:GLU:OE2	1:q:567:LYS:NZ	2.29	0.65
1:x:564:GLU:OE2	1:x:567:LYS:NZ	2.29	0.65
1:A:311:LYS:HE2	1:A:686:GLU:HB2	1.78	0.65
1:E:311:LYS:HE2	1:E:686:GLU:HB2	1.78	0.65
1:G:311:LYS:HE2	1:G:686:GLU:HB2	1.78	0.65
1:K:564:GLU:OE2	1:K:567:LYS:NZ	2.29	0.65
1:R:311:LYS:HE2	1:R:686:GLU:HB2	1.78	0.65
1:V:564:GLU:OE2	1:V:567:LYS:NZ	2.29	0.65
1:3:262:ASN:O	1:3:266:GLY:N	2.24	0.65
1:h:564:GLU:OE2	1:h:567:LYS:NZ	2.29	0.65
1:p:564:GLU:OE2	1:p:567:LYS:NZ	2.29	0.65
1:B:564:GLU:OE2	1:B:567:LYS:NZ	2.29	0.65
1:C:564:GLU:OE2	1:C:567:LYS:NZ	2.29	0.65
1:S:311:LYS:HE2	1:S:686:GLU:HB2	1.78	0.65
1:T:311:LYS:HE2	1:T:686:GLU:HB2	1.78	0.65
1:Y:564:GLU:OE2	1:Y:567:LYS:NZ	2.29	0.65
1:4:311:LYS:HE2	1:4:686:GLU:HB2	1.78	0.65
1:5:322:VAL:HG11	1:5:673:GLN:HE21	1.61	0.65
1:u:311:LYS:HE2	1:u:686:GLU:HB2	1.78	0.65
1:D:311:LYS:HE2	1:D:686:GLU:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:564:GLU:OE2	1:E:567:LYS:NZ	2.29	0.65
1:f:564:GLU:OE2	1:f:567:LYS:NZ	2.29	0.65
1:y:564:GLU:OE2	1:y:567:LYS:NZ	2.29	0.65
1:z:311:LYS:HE2	1:z:686:GLU:HB2	1.78	0.65
1:7:322:VAL:HG11	1:7:673:GLN:HE21	1.61	0.65
1:G:262:ASN:HD22	1:G:273:ALA:HA	1.63	0.64
1:G:564:GLU:OE2	1:G:567:LYS:NZ	2.29	0.64
1:N:322:VAL:HG11	1:N:673:GLN:HE21	1.61	0.64
1:N:564:GLU:OE2	1:N:567:LYS:NZ	2.29	0.64
1:R:262:ASN:HD22	1:R:273:ALA:HA	1.63	0.64
1:R:322:VAL:HG11	1:R:673:GLN:HE21	1.61	0.64
1:U:345:PHE:HB3	1:U:402:SER:HA	1.77	0.64
1:1:311:LYS:HE2	1:1:686:GLU:HB2	1.78	0.64
1:e:564:GLU:OE2	1:e:567:LYS:NZ	2.29	0.64
1:r:262:ASN:HD22	1:r:273:ALA:HA	1.63	0.64
1:r:311:LYS:HE2	1:r:686:GLU:HB2	1.78	0.64
1:r:564:GLU:OE2	1:r:567:LYS:NZ	2.29	0.64
1:s:322:VAL:HG11	1:s:673:GLN:HE21	1.61	0.64
1:u:564:GLU:OE2	1:u:567:LYS:NZ	2.29	0.64
1:v:564:GLU:OE2	1:v:567:LYS:NZ	2.29	0.64
1:8:322:VAL:HG11	1:8:673:GLN:HE21	1.61	0.64
1:B:311:LYS:HE2	1:B:686:GLU:HB2	1.78	0.64
1:F:322:VAL:HG11	1:F:673:GLN:HE21	1.61	0.64
1:N:262:ASN:HD22	1:N:273:ALA:HA	1.63	0.64
1:R:262:ASN:O	1:R:266:GLY:N	2.24	0.64
1:R:564:GLU:OE2	1:R:567:LYS:NZ	2.29	0.64
1:X:262:ASN:HD22	1:X:273:ALA:HA	1.63	0.64
1:2:262:ASN:HD22	1:2:273:ALA:HA	1.63	0.64
1:2:564:GLU:OE2	1:2:567:LYS:NZ	2.29	0.64
1:5:262:ASN:HD22	1:5:273:ALA:HA	1.63	0.64
1:c:262:ASN:HD22	1:c:273:ALA:HA	1.62	0.64
1:d:322:VAL:HG11	1:d:673:GLN:HE21	1.61	0.64
1:f:262:ASN:HD22	1:f:273:ALA:HA	1.63	0.64
1:g:262:ASN:HD22	1:g:273:ALA:HA	1.63	0.64
1:h:311:LYS:HE2	1:h:686:GLU:HB2	1.78	0.64
1:s:262:ASN:HD22	1:s:273:ALA:HA	1.63	0.64
1:v:262:ASN:HD22	1:v:273:ALA:HA	1.62	0.64
1:I:311:LYS:HE2	1:I:686:GLU:HB2	1.78	0.64
1:I:322:VAL:HG11	1:I:673:GLN:HE21	1.61	0.64
1:W:262:ASN:HD22	1:W:273:ALA:HA	1.63	0.64
1:5:564:GLU:OE2	1:5:567:LYS:NZ	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:311:LYS:HE2	1:a:686:GLU:HB2	1.78	0.64
1:f:262:ASN:O	1:f:266:GLY:N	2.25	0.64
1:f:322:VAL:HG11	1:f:673:GLN:HE21	1.61	0.64
1:j:311:LYS:HE2	1:j:686:GLU:HB2	1.78	0.64
1:l:262:ASN:HD22	1:l:273:ALA:HA	1.63	0.64
1:p:311:LYS:HE2	1:p:686:GLU:HB2	1.78	0.64
1:F:262:ASN:HD22	1:F:273:ALA:HA	1.63	0.64
1:I:262:ASN:HD22	1:I:273:ALA:HA	1.63	0.64
1:L:564:GLU:OE2	1:L:567:LYS:NZ	2.29	0.64
1:Q:262:ASN:HD22	1:Q:273:ALA:HA	1.63	0.64
1:S:322:VAL:HG11	1:S:673:GLN:HE21	1.61	0.64
1:V:311:LYS:HE2	1:V:686:GLU:HB2	1.78	0.64
1:d:262:ASN:HD22	1:d:273:ALA:HA	1.63	0.64
1:T:322:VAL:HG11	1:T:673:GLN:HE21	1.61	0.64
1:V:262:ASN:HD22	1:V:273:ALA:HA	1.63	0.64
1:Z:311:LYS:HE2	1:Z:686:GLU:HB2	1.78	0.64
1:b:564:GLU:OE2	1:b:567:LYS:NZ	2.29	0.64
1:h:262:ASN:HD22	1:h:273:ALA:HA	1.63	0.64
1:o:564:GLU:OE2	1:o:567:LYS:NZ	2.29	0.64
1:s:311:LYS:HE2	1:s:686:GLU:HB2	1.78	0.64
1:A:322:VAL:HG11	1:A:673:GLN:HE21	1.61	0.64
1:J:311:LYS:HE2	1:J:686:GLU:HB2	1.78	0.64
1:M:262:ASN:O	1:M:266:GLY:N	2.24	0.64
1:P:564:GLU:OE2	1:P:567:LYS:NZ	2.29	0.64
1:d:311:LYS:HE2	1:d:686:GLU:HB2	1.78	0.64
1:l:564:GLU:OE2	1:l:567:LYS:NZ	2.29	0.64
1:n:262:ASN:HD22	1:n:273:ALA:HA	1.63	0.64
1:A:262:ASN:HD22	1:A:273:ALA:HA	1.63	0.64
1:J:262:ASN:HD22	1:J:273:ALA:HA	1.63	0.64
1:U:262:ASN:HD22	1:U:273:ALA:HA	1.62	0.64
1:b:262:ASN:HD22	1:b:273:ALA:HA	1.63	0.64
1:q:322:VAL:HG11	1:q:673:GLN:HE21	1.61	0.64
1:v:322:VAL:HG11	1:v:673:GLN:HE21	1.61	0.64
1:F:311:LYS:HE2	1:F:686:GLU:HB2	1.78	0.64
1:P:262:ASN:HD22	1:P:273:ALA:HA	1.63	0.64
1:W:564:GLU:OE2	1:W:567:LYS:NZ	2.29	0.64
1:m:262:ASN:HD22	1:m:273:ALA:HA	1.63	0.64
1:q:262:ASN:HD22	1:q:273:ALA:HA	1.63	0.64
1:y:262:ASN:HD22	1:y:273:ALA:HA	1.63	0.64
1:7:262:ASN:HD22	1:7:273:ALA:HA	1.63	0.64
1:n:311:LYS:HE2	1:n:686:GLU:HB2	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:262:ASN:HD22	1:8:273:ALA:HA	1.62	0.64
1:B:322:VAL:HG11	1:B:673:GLN:HE21	1.61	0.64
1:Y:262:ASN:HD22	1:Y:273:ALA:HA	1.63	0.64
1:2:322:VAL:HG11	1:2:673:GLN:HE21	1.61	0.64
1:t:262:ASN:O	1:t:266:GLY:N	2.24	0.64
1:B:262:ASN:HD22	1:B:273:ALA:HA	1.63	0.63
1:K:262:ASN:HD22	1:K:273:ALA:HA	1.63	0.63
1:p:262:ASN:HD22	1:p:273:ALA:HA	1.63	0.63
1:T:262:ASN:HD22	1:T:273:ALA:HA	1.63	0.63
1:Z:262:ASN:O	1:Z:266:GLY:N	2.24	0.63
1:G:262:ASN:O	1:G:266:GLY:N	2.24	0.63
1:J:566:ILE:HG12	1:J:570:ASN:HD22	1.64	0.63
1:S:262:ASN:HD22	1:S:273:ALA:HA	1.63	0.63
1:Y:262:ASN:OD1	1:Y:263:SER:N	2.32	0.63
1:f:262:ASN:OD1	1:f:263:SER:N	2.32	0.63
1:j:262:ASN:O	1:j:266:GLY:N	2.24	0.63
1:m:262:ASN:OD1	1:m:263:SER:N	2.32	0.63
1:p:322:VAL:HG11	1:p:673:GLN:HE21	1.61	0.63
1:A:262:ASN:OD1	1:A:263:SER:N	2.32	0.63
1:C:262:ASN:OD1	1:C:263:SER:N	2.32	0.63
1:C:262:ASN:HD22	1:C:273:ALA:HA	1.63	0.63
1:G:262:ASN:OD1	1:G:263:SER:N	2.32	0.63
1:O:527:HIS:HE1	1:O:564:GLU:HB2	1.64	0.63
1:1:262:ASN:HD22	1:1:273:ALA:HA	1.63	0.63
1:e:262:ASN:HD22	1:e:273:ALA:HA	1.63	0.63
1:i:262:ASN:OD1	1:i:263:SER:N	2.32	0.63
1:j:262:ASN:OD1	1:j:263:SER:N	2.32	0.63
1:l:311:LYS:HE2	1:l:686:GLU:HB2	1.78	0.63
1:n:566:ILE:HG12	1:n:570:ASN:HD22	1.64	0.63
1:o:262:ASN:OD1	1:o:263:SER:N	2.32	0.63
1:q:262:ASN:OD1	1:q:263:SER:N	2.32	0.63
1:r:262:ASN:OD1	1:r:263:SER:N	2.32	0.63
1:u:262:ASN:OD1	1:u:263:SER:N	2.32	0.63
1:w:262:ASN:OD1	1:w:263:SER:N	2.32	0.63
1:E:262:ASN:HD22	1:E:273:ALA:HA	1.63	0.63
1:L:262:ASN:OD1	1:L:263:SER:N	2.32	0.63
1:Q:566:ILE:HG12	1:Q:570:ASN:HD22	1.64	0.63
1:R:262:ASN:OD1	1:R:263:SER:N	2.32	0.63
1:W:311:LYS:HE2	1:W:686:GLU:HB2	1.78	0.63
1:Z:262:ASN:OD1	1:Z:263:SER:N	2.32	0.63
1:1:262:ASN:OD1	1:1:263:SER:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:262:ASN:OD1	1:2:263:SER:N	2.32	0.63
1:3:566:ILE:HG12	1:3:570:ASN:HD22	1.64	0.63
1:4:527:HIS:HE1	1:4:564:GLU:HB2	1.64	0.63
1:b:566:ILE:HG12	1:b:570:ASN:HD22	1.64	0.63
1:e:262:ASN:OD1	1:e:263:SER:N	2.32	0.63
1:o:566:ILE:HG12	1:o:570:ASN:HD22	1.64	0.63
1:x:566:ILE:HG12	1:x:570:ASN:HD22	1.64	0.63
1:z:262:ASN:OD1	1:z:263:SER:N	2.32	0.63
1:D:262:ASN:HD22	1:D:273:ALA:HA	1.63	0.63
1:E:262:ASN:OD1	1:E:263:SER:N	2.32	0.63
1:H:262:ASN:OD1	1:H:263:SER:N	2.32	0.63
1:H:566:ILE:HG12	1:H:570:ASN:HD22	1.64	0.63
1:L:566:ILE:HG12	1:L:570:ASN:HD22	1.64	0.63
1:P:566:ILE:HG12	1:P:570:ASN:HD22	1.64	0.63
1:Y:566:ILE:HG12	1:Y:570:ASN:HD22	1.64	0.63
1:2:527:HIS:HE1	1:2:564:GLU:HB2	1.64	0.63
1:c:566:ILE:HG12	1:c:570:ASN:HD22	1.64	0.63
1:d:262:ASN:OD1	1:d:263:SER:N	2.32	0.63
1:k:262:ASN:OD1	1:k:263:SER:N	2.32	0.63
1:k:566:ILE:HG12	1:k:570:ASN:HD22	1.64	0.63
1:m:566:ILE:HG12	1:m:570:ASN:HD22	1.64	0.63
1:u:262:ASN:HD22	1:u:273:ALA:HA	1.63	0.63
1:u:527:HIS:HE1	1:u:564:GLU:HB2	1.64	0.63
1:v:262:ASN:OD1	1:v:263:SER:N	2.32	0.63
1:v:527:HIS:HE1	1:v:564:GLU:HB2	1.64	0.63
1:z:262:ASN:HD22	1:z:273:ALA:HA	1.63	0.63
1:8:566:ILE:HG12	1:8:570:ASN:HD22	1.64	0.63
1:C:527:HIS:HE1	1:C:564:GLU:HB2	1.64	0.63
1:F:262:ASN:OD1	1:F:263:SER:N	2.32	0.63
1:F:527:HIS:HE1	1:F:564:GLU:HB2	1.64	0.63
1:K:262:ASN:OD1	1:K:263:SER:N	2.32	0.63
1:M:262:ASN:OD1	1:M:263:SER:N	2.32	0.63
1:M:262:ASN:HD22	1:M:273:ALA:HA	1.63	0.63
1:Z:262:ASN:HD22	1:Z:273:ALA:HA	1.63	0.63
1:d:527:HIS:HE1	1:d:564:GLU:HB2	1.64	0.63
1:j:262:ASN:HD22	1:j:273:ALA:HA	1.63	0.63
1:o:262:ASN:HD22	1:o:273:ALA:HA	1.63	0.63
1:y:262:ASN:OD1	1:y:263:SER:N	2.32	0.63
1:I:566:ILE:HG12	1:I:570:ASN:HD22	1.64	0.63
1:L:262:ASN:HD22	1:L:273:ALA:HA	1.63	0.63
1:1:566:ILE:HG12	1:1:570:ASN:HD22	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:262:ASN:HD22	1:a:273:ALA:HA	1.63	0.63
1:k:262:ASN:HD22	1:k:273:ALA:HA	1.63	0.63
1:p:566:ILE:HG12	1:p:570:ASN:HD22	1.64	0.63
1:r:262:ASN:O	1:r:266:GLY:N	2.24	0.63
1:s:566:ILE:HG12	1:s:570:ASN:HD22	1.64	0.63
1:t:262:ASN:OD1	1:t:263:SER:N	2.32	0.63
1:x:262:ASN:HD22	1:x:273:ALA:HA	1.63	0.63
1:B:566:ILE:HG12	1:B:570:ASN:HD22	1.64	0.63
1:K:566:ILE:HG12	1:K:570:ASN:HD22	1.64	0.63
1:Q:262:ASN:OD1	1:Q:263:SER:N	2.32	0.63
1:Q:527:HIS:HE1	1:Q:564:GLU:HB2	1.64	0.63
1:X:262:ASN:OD1	1:X:263:SER:N	2.32	0.63
1:4:566:ILE:HG12	1:4:570:ASN:HD22	1.64	0.63
1:c:262:ASN:OD1	1:c:263:SER:N	2.32	0.63
1:g:262:ASN:OD1	1:g:263:SER:N	2.32	0.63
1:t:262:ASN:HD22	1:t:273:ALA:HA	1.63	0.63
1:7:566:ILE:HG12	1:7:570:ASN:HD22	1.64	0.63
1:A:566:ILE:HG12	1:A:570:ASN:HD22	1.64	0.62
1:H:262:ASN:HD22	1:H:273:ALA:HA	1.63	0.62
1:O:566:ILE:HG12	1:O:570:ASN:HD22	1.64	0.62
1:W:566:ILE:HG12	1:W:570:ASN:HD22	1.64	0.62
1:3:262:ASN:HD22	1:3:273:ALA:HA	1.63	0.62
1:5:566:ILE:HG12	1:5:570:ASN:HD22	1.64	0.62
1:c:527:HIS:HE1	1:c:564:GLU:HB2	1.64	0.62
1:e:527:HIS:HE1	1:e:564:GLU:HB2	1.64	0.62
1:l:566:ILE:HG12	1:l:570:ASN:HD22	1.64	0.62
1:q:566:ILE:HG12	1:q:570:ASN:HD22	1.64	0.62
1:t:566:ILE:HG12	1:t:570:ASN:HD22	1.64	0.62
1:z:566:ILE:HG12	1:z:570:ASN:HD22	1.64	0.62
1:D:527:HIS:HE1	1:D:564:GLU:HB2	1.64	0.62
1:E:527:HIS:HE1	1:E:564:GLU:HB2	1.64	0.62
1:M:566:ILE:HG12	1:M:570:ASN:HD22	1.64	0.62
1:N:566:ILE:HG12	1:N:570:ASN:HD22	1.64	0.62
1:U:262:ASN:OD1	1:U:263:SER:N	2.32	0.62
1:X:527:HIS:HE1	1:X:564:GLU:HB2	1.64	0.62
1:X:566:ILE:HG12	1:X:570:ASN:HD22	1.64	0.62
1:5:262:ASN:OD1	1:5:263:SER:N	2.32	0.62
1:a:527:HIS:HE1	1:a:564:GLU:HB2	1.64	0.62
1:g:527:HIS:HE1	1:g:564:GLU:HB2	1.64	0.62
1:g:566:ILE:HG12	1:g:570:ASN:HD22	1.64	0.62
1:x:716:ASN:OD1	1:x:717:THR:N	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:527:HIS:HE1	1:B:564:GLU:HB2	1.64	0.62
1:F:566:ILE:HG12	1:F:570:ASN:HD22	1.64	0.62
1:N:262:ASN:OD1	1:N:263:SER:N	2.32	0.62
1:T:262:ASN:OD1	1:T:263:SER:N	2.32	0.62
1:V:262:ASN:OD1	1:V:263:SER:N	2.32	0.62
1:W:262:ASN:OD1	1:W:263:SER:N	2.32	0.62
1:3:716:ASN:OD1	1:3:717:THR:N	2.31	0.62
1:4:262:ASN:OD1	1:4:263:SER:N	2.32	0.62
1:a:262:ASN:OD1	1:a:263:SER:N	2.32	0.62
1:n:262:ASN:OD1	1:n:263:SER:N	2.32	0.62
1:p:527:HIS:HE1	1:p:564:GLU:HB2	1.64	0.62
1:y:566:ILE:HG12	1:y:570:ASN:HD22	1.64	0.62
1:7:262:ASN:OD1	1:7:263:SER:N	2.32	0.62
1:M:527:HIS:HE1	1:M:564:GLU:HB2	1.64	0.62
1:O:262:ASN:OD1	1:O:263:SER:N	2.32	0.62
1:S:262:ASN:OD1	1:S:263:SER:N	2.32	0.62
1:V:527:HIS:HE1	1:V:564:GLU:HB2	1.64	0.62
1:h:262:ASN:OD1	1:h:263:SER:N	2.32	0.62
1:h:309:ARG:CZ	1:h:311:LYS:NZ	2.63	0.62
1:h:527:HIS:HE1	1:h:564:GLU:HB2	1.64	0.62
1:l:262:ASN:OD1	1:l:263:SER:N	2.32	0.62
1:z:527:HIS:HE1	1:z:564:GLU:HB2	1.64	0.62
1:8:262:ASN:OD1	1:8:263:SER:N	2.32	0.62
1:D:262:ASN:OD1	1:D:263:SER:N	2.32	0.62
1:F:716:ASN:OD1	1:F:717:THR:N	2.31	0.62
1:I:527:HIS:HE1	1:I:564:GLU:HB2	1.64	0.62
1:J:262:ASN:OD1	1:J:263:SER:N	2.32	0.62
1:V:309:ARG:CZ	1:V:311:LYS:NZ	2.63	0.62
1:1:527:HIS:HE1	1:1:564:GLU:HB2	1.64	0.62
1:3:262:ASN:OD1	1:3:263:SER:N	2.32	0.62
1:d:716:ASN:OD1	1:d:717:THR:N	2.31	0.62
1:i:262:ASN:HD22	1:i:273:ALA:HA	1.63	0.62
1:m:527:HIS:HE1	1:m:564:GLU:HB2	1.64	0.62
1:s:527:HIS:HE1	1:s:564:GLU:HB2	1.64	0.62
1:x:262:ASN:OD1	1:x:263:SER:N	2.32	0.62
1:B:262:ASN:OD1	1:B:263:SER:N	2.32	0.62
1:D:309:ARG:CZ	1:D:311:LYS:NZ	2.63	0.62
1:L:309:ARG:CZ	1:L:311:LYS:NZ	2.63	0.62
1:T:566:ILE:HG12	1:T:570:ASN:HD22	1.64	0.62
1:W:527:HIS:HE1	1:W:564:GLU:HB2	1.64	0.62
1:Y:527:HIS:HE1	1:Y:564:GLU:HB2	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:566:ILE:HG12	1:a:570:ASN:HD22	1.64	0.62
1:d:566:ILE:HG12	1:d:570:ASN:HD22	1.64	0.62
1:o:309:ARG:CZ	1:o:311:LYS:NZ	2.63	0.62
1:t:527:HIS:HE1	1:t:564:GLU:HB2	1.64	0.62
1:v:309:ARG:CZ	1:v:311:LYS:NZ	2.63	0.62
1:x:527:HIS:HE1	1:x:564:GLU:HB2	1.64	0.62
1:C:566:ILE:HG12	1:C:570:ASN:HD22	1.64	0.62
1:D:566:ILE:HG12	1:D:570:ASN:HD22	1.64	0.62
1:J:716:ASN:OD1	1:J:717:THR:N	2.31	0.62
1:R:566:ILE:HG12	1:R:570:ASN:HD22	1.64	0.62
1:R:716:ASN:OD1	1:R:717:THR:N	2.31	0.62
1:V:566:ILE:HG12	1:V:570:ASN:HD22	1.64	0.62
1:2:309:ARG:CZ	1:2:311:LYS:NZ	2.63	0.62
1:a:309:ARG:CZ	1:a:311:LYS:NZ	2.63	0.62
1:b:262:ASN:OD1	1:b:263:SER:N	2.32	0.62
1:p:262:ASN:OD1	1:p:263:SER:N	2.32	0.62
1:u:566:ILE:HG12	1:u:570:ASN:HD22	1.64	0.62
1:w:527:HIS:HE1	1:w:564:GLU:HB2	1.64	0.62
1:P:262:ASN:OD1	1:P:263:SER:N	2.32	0.62
1:P:355:VAL:H	1:P:646:GLN:NE2	1.98	0.62
1:S:309:ARG:CZ	1:S:311:LYS:NZ	2.63	0.62
1:S:527:HIS:HE1	1:S:564:GLU:HB2	1.64	0.62
1:S:566:ILE:HG12	1:S:570:ASN:HD22	1.64	0.62
1:T:309:ARG:CZ	1:T:311:LYS:NZ	2.63	0.62
1:3:527:HIS:HE1	1:3:564:GLU:HB2	1.64	0.62
1:b:355:VAL:H	1:b:646:GLN:NE2	1.98	0.62
1:f:309:ARG:CZ	1:f:311:LYS:NZ	2.63	0.62
1:f:716:ASN:OD1	1:f:717:THR:N	2.31	0.62
1:h:566:ILE:HG12	1:h:570:ASN:HD22	1.64	0.62
1:n:716:ASN:OD1	1:n:717:THR:N	2.31	0.62
1:w:262:ASN:HD22	1:w:273:ALA:HA	1.63	0.62
1:A:355:VAL:H	1:A:646:GLN:NE2	1.98	0.62
1:C:309:ARG:CZ	1:C:311:LYS:NZ	2.63	0.62
1:E:566:ILE:HG12	1:E:570:ASN:HD22	1.64	0.62
1:H:355:VAL:H	1:H:646:GLN:NE2	1.98	0.62
1:R:309:ARG:CZ	1:R:311:LYS:NZ	2.63	0.62
1:W:309:ARG:CZ	1:W:311:LYS:NZ	2.63	0.62
1:Z:566:ILE:HG12	1:Z:570:ASN:HD22	1.64	0.62
1:f:527:HIS:HE1	1:f:564:GLU:HB2	1.64	0.62
1:f:566:ILE:HG12	1:f:570:ASN:HD22	1.64	0.62
1:h:355:VAL:H	1:h:646:GLN:NE2	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:527:HIS:HE1	1:i:564:GLU:HB2	1.64	0.62
1:j:566:ILE:HG12	1:j:570:ASN:HD22	1.64	0.62
1:l:309:ARG:CZ	1:l:311:LYS:NZ	2.63	0.62
1:l:527:HIS:HE1	1:l:564:GLU:HB2	1.64	0.62
1:q:355:VAL:H	1:q:646:GLN:NE2	1.98	0.62
1:u:309:ARG:CZ	1:u:311:LYS:NZ	2.63	0.62
1:A:716:ASN:OD1	1:A:717:THR:N	2.31	0.62
1:I:355:VAL:H	1:I:646:GLN:NE2	1.98	0.62
1:J:355:VAL:H	1:J:646:GLN:NE2	1.98	0.62
1:L:527:HIS:HE1	1:L:564:GLU:HB2	1.64	0.62
1:N:355:VAL:H	1:N:646:GLN:NE2	1.98	0.62
1:O:355:VAL:H	1:O:646:GLN:NE2	1.98	0.62
1:U:309:ARG:CZ	1:U:311:LYS:NZ	2.63	0.62
1:U:527:HIS:HE1	1:U:564:GLU:HB2	1.64	0.62
1:V:355:VAL:H	1:V:646:GLN:NE2	1.98	0.62
1:5:355:VAL:H	1:5:646:GLN:NE2	1.98	0.62
1:e:566:ILE:HG12	1:e:570:ASN:HD22	1.64	0.62
1:j:527:HIS:HE1	1:j:564:GLU:HB2	1.64	0.62
1:k:309:ARG:CZ	1:k:311:LYS:NZ	2.63	0.62
1:k:355:VAL:H	1:k:646:GLN:NE2	1.98	0.62
1:s:355:VAL:H	1:s:646:GLN:NE2	1.98	0.62
1:H:309:ARG:CZ	1:H:311:LYS:NZ	2.63	0.61
1:R:527:HIS:HE1	1:R:564:GLU:HB2	1.64	0.61
1:T:527:HIS:HE1	1:T:564:GLU:HB2	1.64	0.61
1:X:309:ARG:CZ	1:X:311:LYS:NZ	2.63	0.61
1:4:262:ASN:HD22	1:4:273:ALA:HA	1.63	0.61
1:4:355:VAL:H	1:4:646:GLN:NE2	1.98	0.61
1:i:309:ARG:CZ	1:i:311:LYS:NZ	2.63	0.61
1:m:309:ARG:CZ	1:m:311:LYS:NZ	2.63	0.61
1:n:355:VAL:H	1:n:646:GLN:NE2	1.98	0.61
1:w:566:ILE:HG12	1:w:570:ASN:HD22	1.64	0.61
1:7:355:VAL:H	1:7:646:GLN:NE2	1.98	0.61
1:8:355:VAL:H	1:8:646:GLN:NE2	1.98	0.61
1:C:355:VAL:H	1:C:646:GLN:NE2	1.98	0.61
1:F:309:ARG:CZ	1:F:311:LYS:NZ	2.63	0.61
1:O:716:ASN:OD1	1:O:717:THR:N	2.31	0.61
1:S:355:VAL:H	1:S:646:GLN:NE2	1.98	0.61
1:U:566:ILE:HG12	1:U:570:ASN:HD22	1.64	0.61
1:U:716:ASN:OD1	1:U:717:THR:N	2.31	0.61
1:Y:309:ARG:CZ	1:Y:311:LYS:NZ	2.63	0.61
1:c:716:ASN:OD1	1:c:717:THR:N	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:309:ARG:CZ	1:g:311:LYS:NZ	2.63	0.61
1:o:527:HIS:HE1	1:o:564:GLU:HB2	1.64	0.61
1:q:716:ASN:OD1	1:q:717:THR:N	2.31	0.61
1:s:309:ARG:CZ	1:s:311:LYS:NZ	2.63	0.61
1:u:355:VAL:H	1:u:646:GLN:NE2	1.98	0.61
1:w:309:ARG:CZ	1:w:311:LYS:NZ	2.63	0.61
1:z:309:ARG:CZ	1:z:311:LYS:NZ	2.63	0.61
1:F:355:VAL:H	1:F:646:GLN:NE2	1.98	0.61
1:I:309:ARG:CZ	1:I:311:LYS:NZ	2.63	0.61
1:K:527:HIS:HE1	1:K:564:GLU:HB2	1.64	0.61
1:O:262:ASN:HD22	1:O:273:ALA:HA	1.63	0.61
1:Q:716:ASN:OD1	1:Q:717:THR:N	2.31	0.61
1:Z:527:HIS:HE1	1:Z:564:GLU:HB2	1.64	0.61
1:1:355:VAL:H	1:1:646:GLN:NE2	1.98	0.61
1:1:716:ASN:OD1	1:1:717:THR:N	2.31	0.61
1:2:566:ILE:HG12	1:2:570:ASN:HD22	1.64	0.61
1:d:309:ARG:CZ	1:d:311:LYS:NZ	2.63	0.61
1:d:355:VAL:H	1:d:646:GLN:NE2	1.98	0.61
1:v:566:ILE:HG12	1:v:570:ASN:HD22	1.64	0.61
1:y:527:HIS:HE1	1:y:564:GLU:HB2	1.64	0.61
1:z:716:ASN:OD1	1:z:717:THR:N	2.31	0.61
1:7:716:ASN:OD1	1:7:717:THR:N	2.31	0.61
1:E:309:ARG:CZ	1:E:311:LYS:NZ	2.63	0.61
1:G:355:VAL:H	1:G:646:GLN:NE2	1.98	0.61
1:I:262:ASN:OD1	1:I:263:SER:N	2.32	0.61
1:J:527:HIS:HE1	1:J:564:GLU:HB2	1.64	0.61
1:R:355:VAL:H	1:R:646:GLN:NE2	1.98	0.61
1:T:355:VAL:H	1:T:646:GLN:NE2	1.98	0.61
1:Z:309:ARG:CZ	1:Z:311:LYS:NZ	2.63	0.61
1:Z:355:VAL:H	1:Z:646:GLN:NE2	1.98	0.61
1:1:309:ARG:CZ	1:1:311:LYS:NZ	2.63	0.61
1:4:716:ASN:OD1	1:4:717:THR:N	2.31	0.61
1:i:566:ILE:HG12	1:i:570:ASN:HD22	1.64	0.61
1:j:309:ARG:CZ	1:j:311:LYS:NZ	2.63	0.61
1:y:716:ASN:OD1	1:y:717:THR:N	2.31	0.61
1:z:355:VAL:H	1:z:646:GLN:NE2	1.98	0.61
1:8:716:ASN:OD1	1:8:717:THR:N	2.31	0.61
1:D:716:ASN:OD1	1:D:717:THR:N	2.31	0.61
1:E:355:VAL:H	1:E:646:GLN:NE2	1.98	0.61
1:Q:355:VAL:H	1:Q:646:GLN:NE2	1.98	0.61
1:4:309:ARG:CZ	1:4:311:LYS:NZ	2.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:355:VAL:H	1:c:646:GLN:NE2	1.98	0.61
1:e:355:VAL:H	1:e:646:GLN:NE2	1.98	0.61
1:f:355:VAL:H	1:f:646:GLN:NE2	1.98	0.61
1:j:355:VAL:H	1:j:646:GLN:NE2	1.98	0.61
1:r:355:VAL:H	1:r:646:GLN:NE2	1.98	0.61
1:s:262:ASN:OD1	1:s:263:SER:N	2.32	0.61
1:w:355:VAL:H	1:w:646:GLN:NE2	1.98	0.61
1:7:527:HIS:HE1	1:7:564:GLU:HB2	1.64	0.61
1:H:527:HIS:HE1	1:H:564:GLU:HB2	1.64	0.61
1:K:355:VAL:H	1:K:646:GLN:NE2	1.98	0.61
1:K:716:ASN:OD1	1:K:717:THR:N	2.31	0.61
1:N:716:ASN:OD1	1:N:717:THR:N	2.31	0.61
1:O:309:ARG:CZ	1:O:311:LYS:NZ	2.63	0.61
1:5:716:ASN:OD1	1:5:717:THR:N	2.31	0.61
1:a:355:VAL:H	1:a:646:GLN:NE2	1.98	0.61
1:e:309:ARG:CZ	1:e:311:LYS:NZ	2.63	0.61
1:i:355:VAL:H	1:i:646:GLN:NE2	1.98	0.61
1:p:355:VAL:H	1:p:646:GLN:NE2	1.98	0.61
1:q:527:HIS:HE1	1:q:564:GLU:HB2	1.64	0.61
1:y:355:VAL:H	1:y:646:GLN:NE2	1.98	0.61
1:B:355:VAL:H	1:B:646:GLN:NE2	1.98	0.61
1:D:355:VAL:H	1:D:646:GLN:NE2	1.98	0.61
1:E:716:ASN:OD1	1:E:717:THR:N	2.31	0.61
1:G:309:ARG:CZ	1:G:311:LYS:NZ	2.63	0.61
1:N:570:ASN:HD21	1:N:608:GLN:H	1.49	0.61
1:Q:309:ARG:CZ	1:Q:311:LYS:NZ	2.63	0.61
1:a:716:ASN:OD1	1:a:717:THR:N	2.31	0.61
1:i:311:LYS:CE	1:i:686:GLU:HB2	2.31	0.61
1:n:527:HIS:HE1	1:n:564:GLU:HB2	1.64	0.61
1:p:311:LYS:CE	1:p:686:GLU:HB2	2.31	0.61
1:r:527:HIS:HE1	1:r:564:GLU:HB2	1.64	0.61
1:t:570:ASN:HD21	1:t:608:GLN:H	1.49	0.61
1:8:527:HIS:HE1	1:8:564:GLU:HB2	1.64	0.61
1:A:309:ARG:CZ	1:A:311:LYS:NZ	2.63	0.61
1:A:570:ASN:HD21	1:A:608:GLN:H	1.49	0.61
1:G:527:HIS:HE1	1:G:564:GLU:HB2	1.64	0.61
1:M:570:ASN:HD21	1:M:608:GLN:H	1.49	0.61
1:P:309:ARG:CZ	1:P:311:LYS:NZ	2.63	0.61
1:Y:355:VAL:H	1:Y:646:GLN:NE2	1.98	0.61
1:b:309:ARG:CZ	1:b:311:LYS:NZ	2.63	0.61
1:j:311:LYS:CE	1:j:686:GLU:HB2	2.31	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:527:HIS:HE1	1:k:564:GLU:HB2	1.64	0.61
1:m:355:VAL:H	1:m:646:GLN:NE2	1.98	0.61
1:q:570:ASN:HD21	1:q:608:GLN:H	1.49	0.61
1:r:311:LYS:CE	1:r:686:GLU:HB2	2.31	0.61
1:t:309:ARG:CZ	1:t:311:LYS:NZ	2.63	0.61
1:A:311:LYS:CE	1:A:686:GLU:HB2	2.31	0.61
1:A:527:HIS:HE1	1:A:564:GLU:HB2	1.64	0.61
1:B:309:ARG:CZ	1:B:311:LYS:NZ	2.63	0.61
1:B:311:LYS:CE	1:B:686:GLU:HB2	2.31	0.61
1:F:311:LYS:CE	1:F:686:GLU:HB2	2.31	0.61
1:G:311:LYS:CE	1:G:686:GLU:HB2	2.31	0.61
1:I:311:LYS:CE	1:I:686:GLU:HB2	2.31	0.61
1:W:355:VAL:H	1:W:646:GLN:NE2	1.98	0.61
1:Z:311:LYS:CE	1:Z:686:GLU:HB2	2.31	0.61
1:2:716:ASN:OD1	1:2:717:THR:N	2.31	0.61
1:3:311:LYS:CE	1:3:686:GLU:HB2	2.31	0.61
1:5:309:ARG:CZ	1:5:311:LYS:NZ	2.63	0.61
1:5:570:ASN:HD21	1:5:608:GLN:H	1.49	0.61
1:c:309:ARG:CZ	1:c:311:LYS:NZ	2.63	0.61
1:d:311:LYS:CE	1:d:686:GLU:HB2	2.31	0.61
1:e:716:ASN:OD1	1:e:717:THR:N	2.31	0.61
1:o:355:VAL:H	1:o:646:GLN:NE2	1.98	0.61
1:q:309:ARG:CZ	1:q:311:LYS:NZ	2.63	0.61
1:q:311:LYS:CE	1:q:686:GLU:HB2	2.31	0.61
1:r:309:ARG:CZ	1:r:311:LYS:NZ	2.63	0.61
1:s:311:LYS:CE	1:s:686:GLU:HB2	2.31	0.61
1:t:355:VAL:H	1:t:646:GLN:NE2	1.98	0.61
1:w:311:LYS:CE	1:w:686:GLU:HB2	2.31	0.61
1:x:309:ARG:CZ	1:x:311:LYS:NZ	2.63	0.61
1:x:311:LYS:CE	1:x:686:GLU:HB2	2.31	0.61
1:x:570:ASN:HD21	1:x:608:GLN:H	1.49	0.61
1:H:716:ASN:OD1	1:H:717:THR:N	2.31	0.61
1:I:716:ASN:OD1	1:I:717:THR:N	2.31	0.61
1:K:311:LYS:CE	1:K:686:GLU:HB2	2.31	0.61
1:M:309:ARG:CZ	1:M:311:LYS:NZ	2.63	0.61
1:M:355:VAL:H	1:M:646:GLN:NE2	1.98	0.61
1:N:527:HIS:HE1	1:N:564:GLU:HB2	1.64	0.61
1:b:527:HIS:HE1	1:b:564:GLU:HB2	1.64	0.61
1:g:311:LYS:CE	1:g:686:GLU:HB2	2.31	0.61
1:k:716:ASN:OD1	1:k:717:THR:N	2.31	0.61
1:l:355:VAL:H	1:l:646:GLN:NE2	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:309:ARG:CZ	1:p:311:LYS:NZ	2.63	0.61
1:L:311:LYS:CE	1:L:686:GLU:HB2	2.31	0.60
1:N:309:ARG:CZ	1:N:311:LYS:NZ	2.63	0.60
1:O:570:ASN:HD21	1:O:608:GLN:H	1.49	0.60
1:P:527:HIS:HE1	1:P:564:GLU:HB2	1.64	0.60
1:U:570:ASN:HD21	1:U:608:GLN:H	1.49	0.60
1:Y:311:LYS:CE	1:Y:686:GLU:HB2	2.31	0.60
1:Y:570:ASN:HD21	1:Y:608:GLN:H	1.49	0.60
1:2:355:VAL:H	1:2:646:GLN:NE2	1.98	0.60
1:3:309:ARG:CZ	1:3:311:LYS:NZ	2.63	0.60
1:3:355:VAL:H	1:3:646:GLN:NE2	1.98	0.60
1:3:570:ASN:HD21	1:3:608:GLN:H	1.49	0.60
1:4:570:ASN:HD21	1:4:608:GLN:H	1.49	0.60
1:g:716:ASN:OD1	1:g:717:THR:N	2.31	0.60
1:v:355:VAL:H	1:v:646:GLN:NE2	1.98	0.60
1:v:716:ASN:OD1	1:v:717:THR:N	2.31	0.60
1:y:311:LYS:CE	1:y:686:GLU:HB2	2.31	0.60
1:8:309:ARG:CZ	1:8:311:LYS:NZ	2.63	0.60
1:L:355:VAL:H	1:L:646:GLN:NE2	1.98	0.60
1:S:311:LYS:CE	1:S:686:GLU:HB2	2.31	0.60
1:T:311:LYS:CE	1:T:686:GLU:HB2	2.31	0.60
1:V:311:LYS:CE	1:V:686:GLU:HB2	2.31	0.60
1:X:311:LYS:CE	1:X:686:GLU:HB2	2.31	0.60
1:X:355:VAL:H	1:X:646:GLN:NE2	1.98	0.60
1:m:311:LYS:CE	1:m:686:GLU:HB2	2.31	0.60
1:m:570:ASN:HD21	1:m:608:GLN:H	1.49	0.60
1:o:311:LYS:CE	1:o:686:GLU:HB2	2.31	0.60
1:r:566:ILE:HG12	1:r:570:ASN:HD22	1.64	0.60
1:t:716:ASN:OD1	1:t:717:THR:N	2.31	0.60
1:E:570:ASN:HD21	1:E:608:GLN:H	1.49	0.60
1:G:566:ILE:HG12	1:G:570:ASN:HD22	1.64	0.60
1:W:311:LYS:CE	1:W:686:GLU:HB2	2.31	0.60
1:5:527:HIS:HE1	1:5:564:GLU:HB2	1.64	0.60
1:e:570:ASN:HD21	1:e:608:GLN:H	1.49	0.60
1:g:355:VAL:H	1:g:646:GLN:NE2	1.98	0.60
1:h:311:LYS:CE	1:h:686:GLU:HB2	2.31	0.60
1:l:311:LYS:CE	1:l:686:GLU:HB2	2.31	0.60
1:n:309:ARG:CZ	1:n:311:LYS:NZ	2.63	0.60
1:s:716:ASN:OD1	1:s:717:THR:N	2.31	0.60
1:x:355:VAL:H	1:x:646:GLN:NE2	1.98	0.60
1:W:570:ASN:HD21	1:W:608:GLN:H	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:716:ASN:OD1	1:X:717:THR:N	2.31	0.60
1:Y:716:ASN:OD1	1:Y:717:THR:N	2.31	0.60
1:1:311:LYS:CE	1:1:686:GLU:HB2	2.31	0.60
1:2:311:LYS:CE	1:2:686:GLU:HB2	2.31	0.60
1:2:570:ASN:HD21	1:2:608:GLN:H	1.49	0.60
1:l:570:ASN:HD21	1:l:608:GLN:H	1.49	0.60
1:v:311:LYS:CE	1:v:686:GLU:HB2	2.31	0.60
1:v:570:ASN:HD21	1:v:608:GLN:H	1.49	0.60
1:y:309:ARG:CZ	1:y:311:LYS:NZ	2.63	0.60
1:7:309:ARG:CZ	1:7:311:LYS:NZ	2.63	0.60
1:A:579:GLN:NE2	1:A:593:THR:OG1	2.35	0.60
1:C:543:PHE:O	1:C:559:MET:N	2.33	0.60
1:J:309:ARG:CZ	1:J:311:LYS:NZ	2.63	0.60
1:K:309:ARG:CZ	1:K:311:LYS:NZ	2.63	0.60
1:M:716:ASN:OD1	1:M:717:THR:N	2.31	0.60
1:m:716:ASN:OD1	1:m:717:THR:N	2.31	0.60
1:q:579:GLN:NE2	1:q:593:THR:OG1	2.35	0.60
1:t:311:LYS:CE	1:t:686:GLU:HB2	2.31	0.60
1:z:311:LYS:CE	1:z:686:GLU:HB2	2.31	0.60
1:M:311:LYS:CE	1:M:686:GLU:HB2	2.31	0.60
1:P:311:LYS:CE	1:P:686:GLU:HB2	2.31	0.60
1:S:570:ASN:HD21	1:S:608:GLN:H	1.49	0.60
1:e:543:PHE:O	1:e:559:MET:N	2.33	0.60
1:u:543:PHE:O	1:u:559:MET:N	2.33	0.60
1:C:570:ASN:HD21	1:C:608:GLN:H	1.49	0.60
1:D:570:ASN:HD21	1:D:608:GLN:H	1.49	0.60
1:E:542:ILE:HD12	1:E:560:ILE:HG12	1.84	0.60
1:H:542:ILE:HD12	1:H:560:ILE:HG12	1.84	0.60
1:Q:579:GLN:NE2	1:Q:593:THR:OG1	2.35	0.60
1:R:311:LYS:CE	1:R:686:GLU:HB2	2.31	0.60
1:T:570:ASN:HD21	1:T:608:GLN:H	1.49	0.60
1:a:570:ASN:HD21	1:a:608:GLN:H	1.49	0.60
1:b:311:LYS:CE	1:b:686:GLU:HB2	2.31	0.60
1:c:311:LYS:CE	1:c:686:GLU:HB2	2.31	0.60
1:e:542:ILE:HD12	1:e:560:ILE:HG12	1.84	0.60
1:k:542:ILE:HD12	1:k:560:ILE:HG12	1.84	0.60
1:k:570:ASN:HD21	1:k:608:GLN:H	1.49	0.60
1:I:543:PHE:O	1:I:559:MET:N	2.33	0.60
1:J:570:ASN:HD21	1:J:608:GLN:H	1.49	0.60
1:K:579:GLN:NE2	1:K:593:THR:OG1	2.35	0.60
1:N:579:GLN:NE2	1:N:593:THR:OG1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:311:LYS:CE	1:Q:686:GLU:HB2	2.31	0.60
1:V:570:ASN:HD21	1:V:608:GLN:H	1.49	0.60
1:5:579:GLN:NE2	1:5:593:THR:OG1	2.35	0.60
1:c:579:GLN:NE2	1:c:593:THR:OG1	2.35	0.60
1:e:311:LYS:CE	1:e:686:GLU:HB2	2.31	0.60
1:f:542:ILE:HD12	1:f:560:ILE:HG12	1.84	0.60
1:s:542:ILE:HD12	1:s:560:ILE:HG12	1.84	0.60
1:u:570:ASN:HD21	1:u:608:GLN:H	1.49	0.60
1:7:311:LYS:CE	1:7:686:GLU:HB2	2.31	0.60
1:8:311:LYS:CE	1:8:686:GLU:HB2	2.31	0.60
1:A:542:ILE:HD12	1:A:560:ILE:HG12	1.84	0.60
1:C:311:LYS:CE	1:C:686:GLU:HB2	2.31	0.60
1:H:570:ASN:HD21	1:H:608:GLN:H	1.49	0.60
1:I:542:ILE:HD12	1:I:560:ILE:HG12	1.84	0.60
1:R:542:ILE:HD12	1:R:560:ILE:HG12	1.84	0.60
1:V:716:ASN:OD1	1:V:717:THR:N	2.31	0.60
1:4:311:LYS:CE	1:4:686:GLU:HB2	2.31	0.60
1:d:542:ILE:HD12	1:d:560:ILE:HG12	1.84	0.60
1:f:311:LYS:CE	1:f:686:GLU:HB2	2.31	0.60
1:h:570:ASN:HD21	1:h:608:GLN:H	1.49	0.60
1:q:542:ILE:HD12	1:q:560:ILE:HG12	1.84	0.60
1:u:311:LYS:CE	1:u:686:GLU:HB2	2.31	0.60
1:y:579:GLN:NE2	1:y:593:THR:OG1	2.35	0.60
1:8:542:ILE:HD12	1:8:560:ILE:HG12	1.84	0.60
1:E:311:LYS:CE	1:E:686:GLU:HB2	2.31	0.60
1:F:542:ILE:HD12	1:F:560:ILE:HG12	1.84	0.60
1:U:355:VAL:H	1:U:646:GLN:NE2	1.98	0.60
1:h:542:ILE:HD12	1:h:560:ILE:HG12	1.84	0.60
1:n:570:ASN:HD21	1:n:608:GLN:H	1.49	0.60
1:o:579:GLN:NE2	1:o:593:THR:OG1	2.35	0.60
1:r:570:ASN:HD21	1:r:608:GLN:H	1.49	0.60
1:s:543:PHE:O	1:s:559:MET:N	2.33	0.60
1:7:542:ILE:HD12	1:7:560:ILE:HG12	1.84	0.60
1:B:570:ASN:HD21	1:B:608:GLN:H	1.49	0.59
1:G:542:ILE:HD12	1:G:560:ILE:HG12	1.84	0.59
1:K:542:ILE:HD12	1:K:560:ILE:HG12	1.84	0.59
1:L:579:GLN:NE2	1:L:593:THR:OG1	2.35	0.59
1:O:311:LYS:CE	1:O:686:GLU:HB2	2.31	0.59
1:S:579:GLN:NE2	1:S:593:THR:OG1	2.35	0.59
1:U:542:ILE:HD12	1:U:560:ILE:HG12	1.84	0.59
1:V:542:ILE:HD12	1:V:560:ILE:HG12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:543:PHE:O	1:8:559:MET:N	2.33	0.59
1:G:570:ASN:HD21	1:G:608:GLN:H	1.49	0.59
1:L:543:PHE:O	1:L:559:MET:N	2.33	0.59
1:Y:542:ILE:HD12	1:Y:560:ILE:HG12	1.84	0.59
1:3:542:ILE:HD12	1:3:560:ILE:HG12	1.84	0.59
1:h:716:ASN:OD1	1:h:717:THR:N	2.31	0.59
1:l:542:ILE:HD12	1:l:560:ILE:HG12	1.84	0.59
1:o:543:PHE:O	1:o:559:MET:N	2.33	0.59
1:p:570:ASN:HD21	1:p:608:GLN:H	1.49	0.59
1:r:542:ILE:HD12	1:r:560:ILE:HG12	1.84	0.59
1:x:542:ILE:HD12	1:x:560:ILE:HG12	1.84	0.59
1:B:579:GLN:NE2	1:B:593:THR:OG1	2.35	0.59
1:R:343:GLN:HE21	1:R:650:LYS:HE2	1.68	0.59
1:S:716:ASN:OD1	1:S:717:THR:N	2.31	0.59
1:T:579:GLN:NE2	1:T:593:THR:OG1	2.35	0.59
1:W:542:ILE:HD12	1:W:560:ILE:HG12	1.84	0.59
1:X:570:ASN:HD21	1:X:608:GLN:H	1.49	0.59
1:a:311:LYS:CE	1:a:686:GLU:HB2	2.31	0.59
1:e:579:GLN:NE2	1:e:593:THR:OG1	2.35	0.59
1:k:311:LYS:CE	1:k:686:GLU:HB2	2.31	0.59
1:m:542:ILE:HD12	1:m:560:ILE:HG12	1.84	0.59
1:n:579:GLN:NE2	1:n:593:THR:OG1	2.35	0.59
1:p:579:GLN:NE2	1:p:593:THR:OG1	2.35	0.59
1:y:542:ILE:HD12	1:y:560:ILE:HG12	1.84	0.59
1:7:543:PHE:O	1:7:559:MET:N	2.33	0.59
1:D:311:LYS:CE	1:D:686:GLU:HB2	2.31	0.59
1:E:579:GLN:NE2	1:E:593:THR:OG1	2.35	0.59
1:H:311:LYS:CE	1:H:686:GLU:HB2	2.31	0.59
1:J:579:GLN:NE2	1:J:593:THR:OG1	2.35	0.59
1:T:716:ASN:OD1	1:T:717:THR:N	2.31	0.59
1:U:311:LYS:CE	1:U:686:GLU:HB2	2.31	0.59
1:X:343:GLN:HE21	1:X:650:LYS:HE2	1.68	0.59
1:f:343:GLN:HE21	1:f:650:LYS:HE2	1.68	0.59
1:F:343:GLN:HE21	1:F:650:LYS:HE2	1.68	0.59
1:J:311:LYS:CE	1:J:686:GLU:HB2	2.31	0.59
1:N:343:GLN:HE21	1:N:650:LYS:HE2	1.68	0.59
1:P:542:ILE:HD12	1:P:560:ILE:HG12	1.84	0.59
1:V:343:GLN:HE21	1:V:650:LYS:HE2	1.68	0.59
1:W:343:GLN:HE21	1:W:650:LYS:HE2	1.68	0.59
1:2:543:PHE:O	1:2:559:MET:N	2.33	0.59
1:5:343:GLN:HE21	1:5:650:LYS:HE2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:343:GLN:HE21	1:g:650:LYS:HE2	1.68	0.59
1:g:542:ILE:HD12	1:g:560:ILE:HG12	1.84	0.59
1:g:570:ASN:HD21	1:g:608:GLN:H	1.49	0.59
1:h:343:GLN:HE21	1:h:650:LYS:HE2	1.68	0.59
1:K:343:GLN:HE21	1:K:650:LYS:HE2	1.68	0.59
1:L:343:GLN:HE21	1:L:650:LYS:HE2	1.68	0.59
1:L:542:ILE:HD12	1:L:560:ILE:HG12	1.84	0.59
1:M:343:GLN:HE21	1:M:650:LYS:HE2	1.68	0.59
1:S:343:GLN:HE21	1:S:650:LYS:HE2	1.68	0.59
1:W:543:PHE:O	1:W:559:MET:N	2.33	0.59
1:X:542:ILE:HD12	1:X:560:ILE:HG12	1.84	0.59
1:Z:570:ASN:HD21	1:Z:608:GLN:H	1.49	0.59
1:d:343:GLN:HE21	1:d:650:LYS:HE2	1.68	0.59
1:l:343:GLN:HE21	1:l:650:LYS:HE2	1.68	0.59
1:n:311:LYS:CE	1:n:686:GLU:HB2	2.31	0.59
1:n:542:ILE:HD12	1:n:560:ILE:HG12	1.84	0.59
1:o:343:GLN:HE21	1:o:650:LYS:HE2	1.68	0.59
1:y:343:GLN:HE21	1:y:650:LYS:HE2	1.68	0.59
1:y:570:ASN:HD21	1:y:608:GLN:H	1.49	0.59
1:I:343:GLN:HE21	1:I:650:LYS:HE2	1.68	0.59
1:M:542:ILE:HD12	1:M:560:ILE:HG12	1.84	0.59
1:j:343:GLN:HE21	1:j:650:LYS:HE2	1.68	0.59
1:j:570:ASN:HD21	1:j:608:GLN:H	1.49	0.59
1:s:343:GLN:HE21	1:s:650:LYS:HE2	1.68	0.59
1:7:343:GLN:HE21	1:7:650:LYS:HE2	1.68	0.59
1:8:343:GLN:HE21	1:8:650:LYS:HE2	1.68	0.59
1:J:542:ILE:HD12	1:J:560:ILE:HG12	1.84	0.59
1:R:528:LYS:HG2	1:R:529:GLU:H	1.68	0.59
1:T:343:GLN:HE21	1:T:650:LYS:HE2	1.68	0.59
1:Y:528:LYS:HG2	1:Y:529:GLU:H	1.68	0.59
1:Z:343:GLN:HE21	1:Z:650:LYS:HE2	1.68	0.59
1:1:570:ASN:HD21	1:1:608:GLN:H	1.49	0.59
1:b:542:ILE:HD12	1:b:560:ILE:HG12	1.84	0.59
1:c:343:GLN:HE21	1:c:650:LYS:HE2	1.68	0.59
1:f:570:ASN:HD21	1:f:608:GLN:H	1.49	0.59
1:i:528:LYS:HG2	1:i:529:GLU:H	1.68	0.59
1:p:528:LYS:HG2	1:p:529:GLU:H	1.68	0.59
1:t:343:GLN:HE21	1:t:650:LYS:HE2	1.68	0.59
1:v:543:PHE:O	1:v:559:MET:N	2.33	0.59
1:w:528:LYS:HG2	1:w:529:GLU:H	1.68	0.59
1:z:343:GLN:HE21	1:z:650:LYS:HE2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:570:ASN:HD21	1:7:608:GLN:H	1.49	0.59
1:B:528:LYS:HG2	1:B:529:GLU:H	1.68	0.59
1:E:343:GLN:HE21	1:E:650:LYS:HE2	1.68	0.59
1:F:490:SER:HA	1:F:534:PHE:HA	1.85	0.59
1:G:528:LYS:HG2	1:G:529:GLU:H	1.68	0.59
1:K:570:ASN:HD21	1:K:608:GLN:H	1.49	0.59
1:L:570:ASN:HD21	1:L:608:GLN:H	1.49	0.59
1:Q:542:ILE:HD12	1:Q:560:ILE:HG12	1.84	0.59
1:R:570:ASN:HD21	1:R:608:GLN:H	1.49	0.59
1:3:528:LYS:HG2	1:3:529:GLU:H	1.68	0.59
1:4:528:LYS:HG2	1:4:529:GLU:H	1.68	0.59
1:d:490:SER:HA	1:d:534:PHE:HA	1.85	0.59
1:f:528:LYS:HG2	1:f:529:GLU:H	1.68	0.59
1:l:543:PHE:O	1:l:559:MET:N	2.33	0.59
1:m:528:LYS:HG2	1:m:529:GLU:H	1.68	0.59
1:o:542:ILE:HD12	1:o:560:ILE:HG12	1.84	0.59
1:o:570:ASN:HD21	1:o:608:GLN:H	1.49	0.59
1:r:343:GLN:HE21	1:r:650:LYS:HE2	1.68	0.59
1:r:528:LYS:HG2	1:r:529:GLU:H	1.68	0.59
1:t:542:ILE:HD12	1:t:560:ILE:HG12	1.84	0.59
1:z:570:ASN:HD21	1:z:608:GLN:H	1.49	0.59
1:B:542:ILE:HD12	1:B:560:ILE:HG12	1.84	0.59
1:C:716:ASN:OD1	1:C:717:THR:N	2.31	0.59
1:G:343:GLN:HE21	1:G:650:LYS:HE2	1.68	0.59
1:N:311:LYS:CE	1:N:686:GLU:HB2	2.31	0.59
1:O:490:SER:HA	1:O:534:PHE:HA	1.85	0.59
1:O:528:LYS:HG2	1:O:529:GLU:H	1.68	0.59
1:P:343:GLN:HE21	1:P:650:LYS:HE2	1.68	0.59
1:Q:343:GLN:HE21	1:Q:650:LYS:HE2	1.68	0.59
1:X:528:LYS:HG2	1:X:529:GLU:H	1.68	0.59
1:1:343:GLN:HE21	1:1:650:LYS:HE2	1.68	0.59
1:4:490:SER:HA	1:4:534:PHE:HA	1.85	0.59
1:5:543:PHE:O	1:5:559:MET:N	2.33	0.59
1:b:343:GLN:HE21	1:b:650:LYS:HE2	1.68	0.59
1:b:570:ASN:HD21	1:b:608:GLN:H	1.49	0.59
1:d:238:ARG:HH12	1:d:240:ILE:HD11	1.68	0.59
1:e:343:GLN:HE21	1:e:650:LYS:HE2	1.68	0.59
1:g:579:GLN:NE2	1:g:593:THR:OG1	2.35	0.59
1:t:490:SER:HA	1:t:534:PHE:HA	1.85	0.59
1:u:716:ASN:OD1	1:u:717:THR:N	2.31	0.59
1:x:528:LYS:HG2	1:x:529:GLU:H	1.68	0.59

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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	0.59
1:7:490:SER:HA	1:7:534:PHE:HA	1.85	0.59
1:7:528:LYS:HG2	1:7:529:GLU:H	1.68	0.59
1:8:490:SER:HA	1:8:534:PHE:HA	1.85	0.59
1:8:570:ASN:HD21	1:8:608:GLN:H	1.49	0.59
1:E:528:LYS:HG2	1:E:529:GLU:H	1.68	0.58
1:F:238:ARG:HH12	1:F:240:ILE:HD11	1.68	0.58
1:M:490:SER:HA	1:M:534:PHE:HA	1.85	0.58
1:N:490:SER:HA	1:N:534:PHE:HA	1.85	0.58
1:P:570:ASN:HD21	1:P:608:GLN:H	1.49	0.58
1:U:228:TRP:HE3	1:4:404:MET:HE3	1.68	0.58
1:U:343:GLN:HE21	1:U:650:LYS:HE2	1.68	0.58
1:1:490:SER:HA	1:1:534:PHE:HA	1.85	0.58
1:5:311:LYS:CE	1:5:686:GLU:HB2	2.31	0.58
1:5:490:SER:HA	1:5:534:PHE:HA	1.85	0.58
1:c:542:ILE:HD12	1:c:560:ILE:HG12	1.84	0.58
1:n:343:GLN:HE21	1:n:650:LYS:HE2	1.68	0.58
1:z:528:LYS:HG2	1:z:529:GLU:H	1.68	0.58
1:8:528:LYS:HG2	1:8:529:GLU:H	1.68	0.58
1:J:343:GLN:HE21	1:J:650:LYS:HE2	1.68	0.58
1:L:238:ARG:HH12	1:L:240:ILE:HD11	1.69	0.58
1:N:543:PHE:O	1:N:559:MET:N	2.33	0.58
1:S:542:ILE:HD12	1:S:560:ILE:HG12	1.84	0.58
1:T:542:ILE:HD12	1:T:560:ILE:HG12	1.84	0.58
1:X:579:GLN:NE2	1:X:593:THR:OG1	2.35	0.58
1:Y:238:ARG:HH12	1:Y:240:ILE:HD11	1.69	0.58
1:1:238:ARG:HH12	1:1:240:ILE:HD11	1.68	0.58
1:1:528:LYS:HG2	1:1:529:GLU:H	1.68	0.58
1:c:490:SER:HA	1:c:534:PHE:HA	1.85	0.58
1:c:528:LYS:HG2	1:c:529:GLU:H	1.68	0.58
1:e:528:LYS:HG2	1:e:529:GLU:H	1.68	0.58
1:g:528:LYS:HG2	1:g:529:GLU:H	1.68	0.58
1:o:238:ARG:HH12	1:o:240:ILE:HD11	1.69	0.58
1:s:490:SER:HA	1:s:534:PHE:HA	1.85	0.58
1:w:542:ILE:HD12	1:w:560:ILE:HG12	1.84	0.58
1:D:543:PHE:O	1:D:559:MET:N	2.33	0.58
1:H:238:ARG:HH12	1:H:240:ILE:HD11	1.68	0.58
1:Q:238:ARG:HH12	1:Q:240:ILE:HD11	1.69	0.58
1:Q:528:LYS:HG2	1:Q:529:GLU:H	1.68	0.58
1:S:543:PHE:O	1:S:559:MET:N	2.33	0.58
1:T:543:PHE:O	1:T:559:MET:N	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:404:MET:HE3	1:W:228:TRP:HE3	1.69	0.58
1:W:238:ARG:HH12	1:W:240:ILE:HD11	1.69	0.58
1:d:570:ASN:HD21	1:d:608:GLN:H	1.49	0.58
1:e:238:ARG:HH12	1:e:240:ILE:HD11	1.69	0.58
1:h:404:MET:HE3	1:l:228:TRP:HE3	1.69	0.58
1:i:542:ILE:HD12	1:i:560:ILE:HG12	1.84	0.58
1:k:238:ARG:HH12	1:k:240:ILE:HD11	1.68	0.58
1:m:238:ARG:HH12	1:m:240:ILE:HD11	1.69	0.58
1:m:343:GLN:HE21	1:m:650:LYS:HE2	1.68	0.58
1:p:542:ILE:HD12	1:p:560:ILE:HG12	1.84	0.58
1:v:528:LYS:HG2	1:v:529:GLU:H	1.68	0.58
1:z:238:ARG:HH12	1:z:240:ILE:HD11	1.69	0.58
1:7:238:ARG:HH12	1:7:240:ILE:HD11	1.68	0.58
1:E:238:ARG:HH12	1:E:240:ILE:HD11	1.69	0.58
1:E:490:SER:HA	1:E:534:PHE:HA	1.85	0.58
1:I:490:SER:HA	1:I:534:PHE:HA	1.85	0.58
1:J:228:TRP:HE3	1:l:404:MET:HE3	1.69	0.58
1:J:238:ARG:HH12	1:J:240:ILE:HD11	1.69	0.58
1:M:238:ARG:HH12	1:M:240:ILE:HD11	1.69	0.58
1:N:542:ILE:HD12	1:N:560:ILE:HG12	1.84	0.58
1:Q:490:SER:HA	1:Q:534:PHE:HA	1.85	0.58
1:T:490:SER:HA	1:T:534:PHE:HA	1.85	0.58
1:T:528:LYS:HG2	1:T:529:GLU:H	1.68	0.58
1:W:716:ASN:OD1	1:W:717:THR:N	2.31	0.58
1:2:528:LYS:HG2	1:2:529:GLU:H	1.68	0.58
1:2:542:ILE:HD12	1:2:560:ILE:HG12	1.84	0.58
1:a:528:LYS:HG2	1:a:529:GLU:H	1.68	0.58
1:c:238:ARG:HH12	1:c:240:ILE:HD11	1.69	0.58
1:f:238:ARG:HH12	1:f:240:ILE:HD11	1.68	0.58
1:f:490:SER:HA	1:f:534:PHE:HA	1.85	0.58
1:l:238:ARG:HH12	1:l:240:ILE:HD11	1.69	0.58
1:n:238:ARG:HH12	1:n:240:ILE:HD11	1.69	0.58
1:o:490:SER:HA	1:o:534:PHE:HA	1.85	0.58
1:D:528:LYS:HG2	1:D:529:GLU:H	1.68	0.58
1:L:490:SER:HA	1:L:534:PHE:HA	1.85	0.58
1:R:490:SER:HA	1:R:534:PHE:HA	1.85	0.58
1:Y:343:GLN:HE21	1:Y:650:LYS:HE2	1.68	0.58
1:Z:542:ILE:HD12	1:Z:560:ILE:HG12	1.84	0.58
1:2:343:GLN:HE21	1:2:650:LYS:HE2	1.68	0.58
1:5:542:ILE:HD12	1:5:560:ILE:HG12	1.84	0.58
1:e:490:SER:HA	1:e:534:PHE:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:490:SER:HA	1:g:534:PHE:HA	1.85	0.58
1:n:228:TRP:HE3	1:z:404:MET:HE3	1.69	0.58
1:p:343:GLN:HE21	1:p:650:LYS:HE2	1.68	0.58
1:t:238:ARG:HH12	1:t:240:ILE:HD11	1.69	0.58
1:v:542:ILE:HD12	1:v:560:ILE:HG12	1.84	0.58
1:8:238:ARG:HH12	1:8:240:ILE:HD11	1.69	0.58
1:B:343:GLN:HE21	1:B:650:LYS:HE2	1.68	0.58
1:H:343:GLN:HE21	1:H:650:LYS:HE2	1.68	0.58
1:S:490:SER:HA	1:S:534:PHE:HA	1.85	0.58
1:S:528:LYS:HG2	1:S:529:GLU:H	1.68	0.58
1:X:490:SER:HA	1:X:534:PHE:HA	1.85	0.58
1:2:490:SER:HA	1:2:534:PHE:HA	1.85	0.58
1:4:542:ILE:HD12	1:4:560:ILE:HG12	1.84	0.58
1:a:543:PHE:O	1:a:559:MET:N	2.33	0.58
1:b:579:GLN:NE2	1:b:593:THR:OG1	2.35	0.58
1:j:542:ILE:HD12	1:j:560:ILE:HG12	1.84	0.58
1:l:404:MET:HE3	1:r:228:TRP:HE3	1.69	0.58
1:l:490:SER:HA	1:l:534:PHE:HA	1.85	0.58
1:l:716:ASN:OD1	1:l:717:THR:N	2.31	0.58
1:s:528:LYS:HG2	1:s:529:GLU:H	1.68	0.58
1:s:579:GLN:NE2	1:s:593:THR:OG1	2.35	0.58
1:v:343:GLN:HE21	1:v:650:LYS:HE2	1.68	0.58
1:v:490:SER:HA	1:v:534:PHE:HA	1.85	0.58
1:z:542:ILE:HD12	1:z:560:ILE:HG12	1.84	0.58
1:z:579:GLN:NE2	1:z:593:THR:OG1	2.35	0.58
1:F:570:ASN:HD21	1:F:608:GLN:H	1.49	0.58
1:G:228:TRP:HE3	1:W:404:MET:HE3	1.69	0.58
1:G:238:ARG:HH12	1:G:240:ILE:HD11	1.68	0.58
1:H:528:LYS:HG2	1:H:529:GLU:H	1.68	0.58
1:I:528:LYS:HG2	1:I:529:GLU:H	1.68	0.58
1:K:404:MET:HE3	1:7:228:TRP:HE3	1.68	0.58
1:K:528:LYS:HG2	1:K:529:GLU:H	1.68	0.58
1:L:716:ASN:OD1	1:L:717:THR:N	2.31	0.58
1:N:528:LYS:HG2	1:N:529:GLU:H	1.68	0.58
1:O:542:ILE:HD12	1:O:560:ILE:HG12	1.84	0.58
1:P:579:GLN:NE2	1:P:593:THR:OG1	2.35	0.58
1:Q:570:ASN:HD21	1:Q:608:GLN:H	1.49	0.58
1:R:238:ARG:HH12	1:R:240:ILE:HD11	1.69	0.58
1:4:343:GLN:HE21	1:4:650:LYS:HE2	1.68	0.58
1:4:579:GLN:NE2	1:4:593:THR:OG1	2.35	0.58
1:5:528:LYS:HG2	1:5:529:GLU:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:528:LYS:HG2	1:b:529:GLU:H	1.68	0.58
1:c:570:ASN:HD21	1:c:608:GLN:H	1.49	0.58
1:d:228:TRP:HE3	1:r:404:MET:HE3	1.69	0.58
1:i:570:ASN:HD21	1:i:608:GLN:H	1.49	0.58
1:k:343:GLN:HE21	1:k:650:LYS:HE2	1.68	0.58
1:k:528:LYS:HG2	1:k:529:GLU:H	1.68	0.58
1:n:404:MET:HE3	1:s:228:TRP:HE3	1.69	0.58
1:o:404:MET:HE3	1:y:228:TRP:HE3	1.69	0.58
1:o:716:ASN:OD1	1:o:717:THR:N	2.31	0.58
1:r:490:SER:HA	1:r:534:PHE:HA	1.85	0.58
1:s:570:ASN:HD21	1:s:608:GLN:H	1.49	0.58
1:A:528:LYS:HG2	1:A:529:GLU:H	1.68	0.58
1:B:238:ARG:HH12	1:B:240:ILE:HD11	1.69	0.58
1:C:238:ARG:HH12	1:C:240:ILE:HD11	1.69	0.58
1:G:490:SER:HA	1:G:534:PHE:HA	1.85	0.58
1:I:228:TRP:HE3	1:J:404:MET:HE3	1.69	0.58
1:O:579:GLN:NE2	1:O:593:THR:OG1	2.35	0.58
1:W:325:VAL:O	1:W:672:THR:OG1	2.22	0.58
1:W:490:SER:HA	1:W:534:PHE:HA	1.85	0.58
1:W:528:LYS:HG2	1:W:529:GLU:H	1.68	0.58
1:Z:238:ARG:HH12	1:Z:240:ILE:HD11	1.68	0.58
1:1:542:ILE:HD12	1:1:560:ILE:HG12	1.84	0.58
1:1:579:GLN:NE2	1:1:593:THR:OG1	2.35	0.58
1:3:238:ARG:HH12	1:3:240:ILE:HD11	1.69	0.58
1:l:528:LYS:HG2	1:l:529:GLU:H	1.68	0.58
1:r:238:ARG:HH12	1:r:240:ILE:HD11	1.68	0.58
1:x:238:ARG:HH12	1:x:240:ILE:HD11	1.69	0.58
1:y:528:LYS:HG2	1:y:529:GLU:H	1.68	0.58
1:F:228:TRP:HE3	1:G:404:MET:HE3	1.69	0.58
1:F:404:MET:HE3	1:R:228:TRP:HE3	1.69	0.58
1:I:579:GLN:NE2	1:I:593:THR:OG1	2.35	0.58
1:M:325:VAL:O	1:M:672:THR:OG1	2.22	0.58
1:P:528:LYS:HG2	1:P:529:GLU:H	1.68	0.58
1:U:528:LYS:HG2	1:U:529:GLU:H	1.68	0.58
1:V:490:SER:HA	1:V:534:PHE:HA	1.85	0.58
1:Z:490:SER:HA	1:Z:534:PHE:HA	1.85	0.58
1:a:542:ILE:HD12	1:a:560:ILE:HG12	1.84	0.58
1:b:325:VAL:O	1:b:672:THR:OG1	2.22	0.58
1:d:404:MET:HE3	1:f:228:TRP:HE3	1.69	0.58
1:h:490:SER:HA	1:h:534:PHE:HA	1.85	0.58
1:i:325:VAL:O	1:i:672:THR:OG1	2.22	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:238:ARG:HH12	1:j:240:ILE:HD11	1.68	0.58
1:l:325:VAL:O	1:l:672:THR:OG1	2.22	0.58
1:p:238:ARG:HH12	1:p:240:ILE:HD11	1.69	0.58
1:q:343:GLN:HE21	1:q:650:LYS:HE2	1.68	0.58
1:q:490:SER:HA	1:q:534:PHE:HA	1.85	0.58
1:t:325:VAL:O	1:t:672:THR:OG1	2.22	0.58
1:t:528:LYS:HG2	1:t:529:GLU:H	1.68	0.58
1:u:542:ILE:HD12	1:u:560:ILE:HG12	1.84	0.58
1:w:325:VAL:O	1:w:672:THR:OG1	2.22	0.58
1:w:343:GLN:HE21	1:w:650:LYS:HE2	1.68	0.58
1:w:570:ASN:HD21	1:w:608:GLN:H	1.49	0.58
1:C:528:LYS:HG2	1:C:529:GLU:H	1.68	0.58
1:C:542:ILE:HD12	1:C:560:ILE:HG12	1.84	0.58
1:D:542:ILE:HD12	1:D:560:ILE:HG12	1.84	0.58
1:F:579:GLN:NE2	1:F:593:THR:OG1	2.35	0.58
1:H:228:TRP:HE3	1:I:404:MET:HE3	1.69	0.58
1:I:570:ASN:HD21	1:I:608:GLN:H	1.49	0.58
1:K:228:TRP:HE3	1:L:404:MET:HE3	1.69	0.58
1:K:238:ARG:HH12	1:K:240:ILE:HD11	1.69	0.58
1:M:228:TRP:HE3	1:N:404:MET:HE3	1.69	0.58
1:O:238:ARG:HH12	1:O:240:ILE:HD11	1.68	0.58
1:O:343:GLN:HE21	1:O:650:LYS:HE2	1.68	0.58
1:P:325:VAL:O	1:P:672:THR:OG1	2.22	0.58
1:T:228:TRP:HE3	1:U:404:MET:HE3	1.69	0.58
1:U:238:ARG:HH12	1:U:240:ILE:HD11	1.69	0.58
1:4:238:ARG:HH12	1:4:240:ILE:HD11	1.69	0.58
1:5:404:MET:HE3	1:t:228:TRP:HE3	1.69	0.58
1:d:579:GLN:NE2	1:d:593:THR:OG1	2.35	0.58
1:i:238:ARG:HH12	1:i:240:ILE:HD11	1.69	0.58
1:q:528:LYS:HG2	1:q:529:GLU:H	1.68	0.58
1:s:325:VAL:O	1:s:672:THR:OG1	2.22	0.58
1:u:238:ARG:HH12	1:u:240:ILE:HD11	1.69	0.58
1:w:238:ARG:HH12	1:w:240:ILE:HD11	1.69	0.58
1:A:490:SER:HA	1:A:534:PHE:HA	1.85	0.57
1:D:312:ARG:HG2	1:D:416:GLU:HG2	1.86	0.57
1:D:325:VAL:O	1:D:672:THR:OG1	2.22	0.57
1:F:325:VAL:O	1:F:672:THR:OG1	2.22	0.57
1:K:490:SER:HA	1:K:534:PHE:HA	1.85	0.57
1:M:528:LYS:HG2	1:M:529:GLU:H	1.68	0.57
1:M:543:PHE:O	1:M:559:MET:N	2.33	0.57
1:V:528:LYS:HG2	1:V:529:GLU:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:312:ARG:HG2	1:a:416:GLU:HG2	1.86	0.57
1:d:325:VAL:O	1:d:672:THR:OG1	2.22	0.57
1:i:343:GLN:HE21	1:i:650:LYS:HE2	1.68	0.57
1:t:662:PHE:HA	1:x:373:MET:HE3	1.86	0.57
1:u:528:LYS:HG2	1:u:529:GLU:H	1.68	0.57
1:y:238:ARG:HH12	1:y:240:ILE:HD11	1.69	0.57
1:A:228:TRP:HE3	1:E:404:MET:HE3	1.69	0.57
1:A:325:VAL:O	1:A:672:THR:OG1	2.22	0.57
1:A:343:GLN:HE21	1:A:650:LYS:HE2	1.68	0.57
1:G:325:VAL:O	1:G:672:THR:OG1	2.22	0.57
1:I:325:VAL:O	1:I:672:THR:OG1	2.22	0.57
1:M:662:PHE:HA	1:3:373:MET:HE3	1.86	0.57
1:V:579:GLN:NE2	1:V:593:THR:OG1	2.35	0.57
1:W:312:ARG:HG2	1:W:416:GLU:HG2	1.86	0.57
1:a:325:VAL:O	1:a:672:THR:OG1	2.22	0.57
1:j:490:SER:HA	1:j:534:PHE:HA	1.85	0.57
1:k:228:TRP:HE3	1:s:404:MET:HE3	1.69	0.57
1:p:404:MET:HE3	1:u:228:TRP:HE3	1.69	0.57
1:r:325:VAL:O	1:r:672:THR:OG1	2.22	0.57
1:y:490:SER:HA	1:y:534:PHE:HA	1.85	0.57
1:z:325:VAL:O	1:z:672:THR:OG1	2.22	0.57
1:L:312:ARG:HG2	1:L:416:GLU:HG2	1.86	0.57
1:N:312:ARG:HG2	1:N:416:GLU:HG2	1.87	0.57
1:O:228:TRP:HE3	1:P:404:MET:HE3	1.69	0.57
1:U:312:ARG:HG2	1:U:416:GLU:HG2	1.86	0.57
1:1:325:VAL:O	1:1:672:THR:OG1	2.22	0.57
1:2:238:ARG:HH12	1:2:240:ILE:HD11	1.69	0.57
1:5:312:ARG:HG2	1:5:416:GLU:HG2	1.87	0.57
1:h:528:LYS:HG2	1:h:529:GLU:H	1.68	0.57
1:h:579:GLN:NE2	1:h:593:THR:OG1	2.35	0.57
1:j:528:LYS:HG2	1:j:529:GLU:H	1.68	0.57
1:l:312:ARG:HG2	1:l:416:GLU:HG2	1.86	0.57
1:o:312:ARG:HG2	1:o:416:GLU:HG2	1.86	0.57
1:q:325:VAL:O	1:q:672:THR:OG1	2.22	0.57
1:8:312:ARG:HG2	1:8:416:GLU:HG2	1.86	0.57
1:B:312:ARG:HG2	1:B:416:GLU:HG2	1.86	0.57
1:B:404:MET:HE3	1:C:228:TRP:HE3	1.69	0.57
1:K:325:VAL:O	1:K:672:THR:OG1	2.22	0.57
1:Z:404:MET:HE3	1:1:228:TRP:HE3	1.69	0.57
1:5:238:ARG:HH12	1:5:240:ILE:HD11	1.69	0.57
1:a:238:ARG:HH12	1:a:240:ILE:HD11	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:716:ASN:OD1	1:b:717:THR:N	2.31	0.57
1:f:312:ARG:HG2	1:f:416:GLU:HG2	1.86	0.57
1:f:404:MET:HE3	1:h:228:TRP:HE3	1.69	0.57
1:i:312:ARG:HG2	1:i:416:GLU:HG2	1.86	0.57
1:i:490:SER:HA	1:i:534:PHE:HA	1.85	0.57
1:p:312:ARG:HG2	1:p:416:GLU:HG2	1.86	0.57
1:v:238:ARG:HH12	1:v:240:ILE:HD11	1.69	0.57
1:7:312:ARG:HG2	1:7:416:GLU:HG2	1.86	0.57
1:C:404:MET:HE3	1:D:228:TRP:HE3	1.69	0.57
1:C:579:GLN:NE2	1:C:593:THR:OG1	2.35	0.57
1:F:528:LYS:HG2	1:F:529:GLU:H	1.68	0.57
1:H:404:MET:HE3	1:Z:228:TRP:HE3	1.69	0.57
1:Q:312:ARG:HG2	1:Q:416:GLU:HG2	1.87	0.57
1:U:325:VAL:O	1:U:672:THR:OG1	2.22	0.57
1:V:238:ARG:HH12	1:V:240:ILE:HD11	1.69	0.57
1:Z:325:VAL:O	1:Z:672:THR:OG1	2.22	0.57
1:Z:528:LYS:HG2	1:Z:529:GLU:H	1.68	0.57
1:2:325:VAL:O	1:2:672:THR:OG1	2.22	0.57
1:3:343:GLN:HE21	1:3:650:LYS:HE2	1.68	0.57
1:a:343:GLN:HE21	1:a:650:LYS:HE2	1.68	0.57
1:c:312:ARG:HG2	1:c:416:GLU:HG2	1.86	0.57
1:d:528:LYS:HG2	1:d:529:GLU:H	1.68	0.57
1:e:404:MET:HE3	1:q:228:TRP:HE3	1.69	0.57
1:j:325:VAL:O	1:j:672:THR:OG1	2.22	0.57
1:j:404:MET:HE3	1:z:228:TRP:HE3	1.69	0.57
1:n:490:SER:HA	1:n:534:PHE:HA	1.85	0.57
1:p:490:SER:HA	1:p:534:PHE:HA	1.85	0.57
1:u:579:GLN:NE2	1:u:593:THR:OG1	2.35	0.57
1:v:325:VAL:O	1:v:672:THR:OG1	2.22	0.57
1:w:312:ARG:HG2	1:w:416:GLU:HG2	1.86	0.57
1:x:312:ARG:HG2	1:x:416:GLU:HG2	1.86	0.57
1:y:325:VAL:O	1:y:672:THR:OG1	2.22	0.57
1:B:490:SER:HA	1:B:534:PHE:HA	1.85	0.57
1:C:462:LYS:HB3	1:2:552:ASN:HA	1.87	0.57
1:D:238:ARG:HH12	1:D:240:ILE:HD11	1.69	0.57
1:D:343:GLN:HE21	1:D:650:LYS:HE2	1.68	0.57
1:J:490:SER:HA	1:J:534:PHE:HA	1.85	0.57
1:J:528:LYS:HG2	1:J:529:GLU:H	1.68	0.57
1:M:579:GLN:NE2	1:M:593:THR:OG1	2.35	0.57
1:N:238:ARG:HH12	1:N:240:ILE:HD11	1.68	0.57
1:O:312:ARG:HG2	1:O:416:GLU:HG2	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:716:ASN:OD1	1:P:717:THR:N	2.31	0.57
1:R:312:ARG:HG2	1:R:416:GLU:HG2	1.87	0.57
1:R:404:MET:HE3	1:V:228:TRP:HE3	1.69	0.57
1:X:404:MET:HE3	1:5:228:TRP:HE3	1.69	0.57
1:3:312:ARG:HG2	1:3:416:GLU:HG2	1.86	0.57
1:4:228:TRP:HE3	1:b:404:MET:HE3	1.69	0.57
1:4:312:ARG:HG2	1:4:416:GLU:HG2	1.87	0.57
1:a:228:TRP:HE3	1:u:404:MET:HE3	1.69	0.57
1:a:662:PHE:HA	1:e:373:MET:HE3	1.86	0.57
1:c:325:VAL:O	1:c:672:THR:OG1	2.22	0.57
1:h:238:ARG:HH12	1:h:240:ILE:HD11	1.69	0.57
1:i:579:GLN:NE2	1:i:593:THR:OG1	2.35	0.57
1:j:579:GLN:NE2	1:j:593:THR:OG1	2.35	0.57
1:l:462:LYS:HB3	1:m:552:ASN:HA	1.87	0.57
1:r:312:ARG:HG2	1:r:416:GLU:HG2	1.86	0.57
1:u:462:LYS:HB3	1:v:552:ASN:HA	1.87	0.57
1:w:579:GLN:NE2	1:w:593:THR:OG1	2.35	0.57
1:B:543:PHE:O	1:B:559:MET:N	2.33	0.57
1:D:418:GLU:OE2	1:D:641:LYS:N	2.38	0.57
1:D:662:PHE:HA	1:E:373:MET:HE3	1.86	0.57
1:G:312:ARG:HG2	1:G:416:GLU:HG2	1.86	0.57
1:H:490:SER:HA	1:H:534:PHE:HA	1.85	0.57
1:N:418:GLU:OE2	1:N:641:LYS:N	2.38	0.57
1:Q:325:VAL:O	1:Q:672:THR:OG1	2.22	0.57
1:V:543:PHE:O	1:V:559:MET:N	2.33	0.57
1:W:462:LYS:HB3	1:Y:552:ASN:HA	1.87	0.57
1:3:404:MET:HE3	1:m:228:TRP:HE3	1.69	0.57
1:5:418:GLU:OE2	1:5:641:LYS:N	2.38	0.57
1:j:228:TRP:HE3	1:k:404:MET:HE3	1.69	0.57
1:k:490:SER:HA	1:k:534:PHE:HA	1.85	0.57
1:u:343:GLN:HE21	1:u:650:LYS:HE2	1.68	0.57
1:y:404:MET:HE3	1:8:228:TRP:HE3	1.70	0.57
1:8:579:GLN:NE2	1:8:593:THR:OG1	2.35	0.57
1:C:312:ARG:HG2	1:C:416:GLU:HG2	1.87	0.57
1:C:343:GLN:HE21	1:C:650:LYS:HE2	1.68	0.57
1:H:418:GLU:OE2	1:H:641:LYS:N	2.38	0.57
1:I:238:ARG:HH12	1:I:240:ILE:HD11	1.69	0.57
1:J:325:VAL:O	1:J:672:THR:OG1	2.22	0.57
1:N:228:TRP:HE3	1:g:404:MET:HE3	1.69	0.57
1:U:490:SER:HA	1:U:534:PHE:HA	1.85	0.57
1:X:325:VAL:O	1:X:672:THR:OG1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:579:GLN:NE2	1:Z:593:THR:OG1	2.35	0.57
1:Z:662:PHE:HA	1:1:373:MET:HE3	1.87	0.57
1:2:418:GLU:OE2	1:2:641:LYS:N	2.38	0.57
1:5:325:VAL:O	1:5:672:THR:OG1	2.22	0.57
1:a:418:GLU:OE2	1:a:641:LYS:N	2.38	0.57
1:f:418:GLU:OE2	1:f:641:LYS:N	2.38	0.57
1:g:325:VAL:O	1:g:672:THR:OG1	2.22	0.57
1:k:418:GLU:OE2	1:k:641:LYS:N	2.38	0.57
1:n:528:LYS:HG2	1:n:529:GLU:H	1.68	0.57
1:p:325:VAL:O	1:p:672:THR:OG1	2.22	0.57
1:v:418:GLU:OE2	1:v:641:LYS:N	2.38	0.57
1:w:490:SER:HA	1:w:534:PHE:HA	1.85	0.57
1:x:343:GLN:HE21	1:x:650:LYS:HE2	1.68	0.57
1:7:325:VAL:O	1:7:672:THR:OG1	2.22	0.57
1:A:312:ARG:HG2	1:A:416:GLU:HG2	1.87	0.57
1:B:325:VAL:O	1:B:672:THR:OG1	2.22	0.57
1:G:418:GLU:OE2	1:G:641:LYS:N	2.38	0.57
1:L:528:LYS:HG2	1:L:529:GLU:H	1.68	0.57
1:Q:418:GLU:OE2	1:Q:641:LYS:N	2.38	0.57
1:R:418:GLU:OE2	1:R:641:LYS:N	2.38	0.57
1:T:662:PHE:HA	1:c:373:MET:HE3	1.87	0.57
1:X:228:TRP:HE3	1:Y:404:MET:HE3	1.69	0.57
1:Y:228:TRP:HE3	1:x:404:MET:HE3	1.69	0.57
1:Y:325:VAL:O	1:Y:672:THR:OG1	2.22	0.57
1:2:228:TRP:HE3	1:i:404:MET:HE3	1.69	0.57
1:3:490:SER:HA	1:3:534:PHE:HA	1.85	0.57
1:g:228:TRP:HE3	1:m:404:MET:HE3	1.69	0.57
1:j:662:PHE:HA	1:z:373:MET:HE3	1.87	0.57
1:m:325:VAL:O	1:m:672:THR:OG1	2.22	0.57
1:n:325:VAL:O	1:n:672:THR:OG1	2.22	0.57
1:r:418:GLU:OE2	1:r:641:LYS:N	2.38	0.57
1:t:312:ARG:HG2	1:t:416:GLU:HG2	1.86	0.57
1:t:579:GLN:NE2	1:t:593:THR:OG1	2.35	0.57
1:u:312:ARG:HG2	1:u:416:GLU:HG2	1.87	0.57
1:w:228:TRP:HE3	1:8:404:MET:HE3	1.68	0.57
1:x:490:SER:HA	1:x:534:PHE:HA	1.85	0.57
1:z:418:GLU:OE2	1:z:641:LYS:N	2.38	0.57
1:7:579:GLN:NE2	1:7:593:THR:OG1	2.35	0.57
1:B:418:GLU:OE2	1:B:641:LYS:N	2.38	0.57
1:C:325:VAL:O	1:C:672:THR:OG1	2.22	0.57
1:C:490:SER:HA	1:C:534:PHE:HA	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:490:SER:HA	1:D:534:PHE:HA	1.85	0.57
1:F:552:ASN:HA	1:Q:462:LYS:HB3	1.87	0.57
1:L:325:VAL:O	1:L:672:THR:OG1	2.22	0.57
1:M:312:ARG:HG2	1:M:416:GLU:HG2	1.86	0.57
1:N:325:VAL:O	1:N:672:THR:OG1	2.22	0.57
1:U:418:GLU:OE2	1:U:641:LYS:N	2.38	0.57
1:1:418:GLU:OE2	1:1:641:LYS:N	2.38	0.57
1:3:325:VAL:O	1:3:672:THR:OG1	2.22	0.57
1:4:325:VAL:O	1:4:672:THR:OG1	2.22	0.57
1:c:418:GLU:OE2	1:c:641:LYS:N	2.38	0.57
1:c:462:LYS:HB3	1:d:552:ASN:HA	1.87	0.57
1:e:325:VAL:O	1:e:672:THR:OG1	2.22	0.57
1:f:325:VAL:O	1:f:672:THR:OG1	2.22	0.57
1:g:238:ARG:HH12	1:g:240:ILE:HD11	1.69	0.57
1:l:418:GLU:OE2	1:l:641:LYS:N	2.38	0.57
1:n:462:LYS:HB3	1:o:552:ASN:HA	1.87	0.57
1:o:228:TRP:HE3	1:v:404:MET:HE3	1.69	0.57
1:p:543:PHE:O	1:p:559:MET:N	2.33	0.57
1:q:552:ASN:HA	1:s:462:LYS:HB3	1.87	0.57
1:s:238:ARG:HH12	1:s:240:ILE:HD11	1.69	0.57
1:u:490:SER:HA	1:u:534:PHE:HA	1.85	0.57
1:x:325:VAL:O	1:x:672:THR:OG1	2.22	0.57
1:8:325:VAL:O	1:8:672:THR:OG1	2.22	0.57
1:A:238:ARG:HH12	1:A:240:ILE:HD11	1.69	0.56
1:B:552:ASN:HA	1:L:462:LYS:HB3	1.87	0.56
1:E:325:VAL:O	1:E:672:THR:OG1	2.22	0.56
1:H:325:VAL:O	1:H:672:THR:OG1	2.22	0.56
1:J:462:LYS:HB3	1:L:552:ASN:HA	1.87	0.56
1:K:418:GLU:OE2	1:K:641:LYS:N	2.38	0.56
1:L:418:GLU:OE2	1:L:641:LYS:N	2.38	0.56
1:P:418:GLU:OE2	1:P:641:LYS:N	2.38	0.56
1:R:325:VAL:O	1:R:672:THR:OG1	2.22	0.56
1:U:543:PHE:O	1:U:559:MET:N	2.33	0.56
1:W:418:GLU:OE2	1:W:641:LYS:N	2.38	0.56
1:X:238:ARG:HH12	1:X:240:ILE:HD11	1.69	0.56
1:Z:312:ARG:HG2	1:Z:416:GLU:HG2	1.86	0.56
1:4:405:LEU:HB2	1:4:409:ASN:HB2	1.87	0.56
1:a:490:SER:HA	1:a:534:PHE:HA	1.85	0.56
1:b:312:ARG:HG2	1:b:416:GLU:HG2	1.87	0.56
1:h:543:PHE:O	1:h:559:MET:N	2.33	0.56
1:o:325:VAL:O	1:o:672:THR:OG1	2.22	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:418:GLU:OE2	1:o:641:LYS:N	2.38	0.56
1:o:462:LYS:HB3	1:p:552:ASN:HA	1.87	0.56
1:o:528:LYS:HG2	1:o:529:GLU:H	1.68	0.56
1:p:418:GLU:OE2	1:p:641:LYS:N	2.38	0.56
1:q:312:ARG:HG2	1:q:416:GLU:HG2	1.87	0.56
1:u:325:VAL:O	1:u:672:THR:OG1	2.22	0.56
1:A:552:ASN:HA	1:I:462:LYS:HB3	1.87	0.56
1:E:405:LEU:HB2	1:E:409:ASN:HB2	1.87	0.56
1:E:462:LYS:HB3	1:Q:552:ASN:HA	1.87	0.56
1:L:228:TRP:HE3	1:2:404:MET:HE3	1.69	0.56
1:M:405:LEU:HB2	1:M:409:ASN:HB2	1.87	0.56
1:O:325:VAL:O	1:O:672:THR:OG1	2.22	0.56
1:O:405:LEU:HB2	1:O:409:ASN:HB2	1.88	0.56
1:R:543:PHE:O	1:R:559:MET:N	2.33	0.56
1:2:373:MET:HE3	1:i:662:PHE:HA	1.87	0.56
1:4:418:GLU:OE2	1:4:641:LYS:N	2.38	0.56
1:b:228:TRP:HE3	1:c:404:MET:HE3	1.69	0.56
1:b:418:GLU:OE2	1:b:641:LYS:N	2.38	0.56
1:e:405:LEU:HB2	1:e:409:ASN:HB2	1.87	0.56
1:k:325:VAL:O	1:k:672:THR:OG1	2.22	0.56
1:l:611:ASP:OD1	1:l:612:VAL:N	2.39	0.56
1:t:405:LEU:HB2	1:t:409:ASN:HB2	1.87	0.56
1:v:228:TRP:HE3	1:w:404:MET:HE3	1.69	0.56
1:v:373:MET:HE3	1:w:662:PHE:HA	1.87	0.56
1:y:418:GLU:OE2	1:y:641:LYS:N	2.38	0.56
1:z:312:ARG:HG2	1:z:416:GLU:HG2	1.87	0.56
1:7:405:LEU:HB2	1:7:409:ASN:HB2	1.87	0.56
1:7:418:GLU:OE2	1:7:641:LYS:N	2.38	0.56
1:A:418:GLU:OE2	1:A:641:LYS:N	2.38	0.56
1:D:405:LEU:HB2	1:D:409:ASN:HB2	1.87	0.56
1:D:552:ASN:HA	1:P:462:LYS:HB3	1.88	0.56
1:D:611:ASP:OD1	1:D:612:VAL:N	2.38	0.56
1:I:418:GLU:OE2	1:I:641:LYS:N	2.38	0.56
1:J:418:GLU:OE2	1:J:641:LYS:N	2.38	0.56
1:O:418:GLU:OE2	1:O:641:LYS:N	2.38	0.56
1:P:228:TRP:HE3	1:Q:404:MET:HE3	1.69	0.56
1:P:312:ARG:HG2	1:P:416:GLU:HG2	1.87	0.56
1:P:490:SER:HA	1:P:534:PHE:HA	1.85	0.56
1:Q:373:MET:HE3	1:S:662:PHE:HA	1.87	0.56
1:Q:405:LEU:HB2	1:Q:409:ASN:HB2	1.87	0.56
1:W:611:ASP:OD1	1:W:612:VAL:N	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:579:GLN:NE2	1:Y:593:THR:OG1	2.35	0.56
1:1:312:ARG:HG2	1:1:416:GLU:HG2	1.87	0.56
1:4:373:MET:HE3	1:b:662:PHE:HA	1.87	0.56
1:a:405:LEU:HB2	1:a:409:ASN:HB2	1.87	0.56
1:a:552:ASN:HA	1:b:462:LYS:HB3	1.88	0.56
1:a:611:ASP:OD1	1:a:612:VAL:N	2.38	0.56
1:b:490:SER:HA	1:b:534:PHE:HA	1.85	0.56
1:b:543:PHE:O	1:b:559:MET:N	2.33	0.56
1:c:552:ASN:HA	1:e:462:LYS:HB3	1.87	0.56
1:d:312:ARG:HG2	1:d:416:GLU:HG2	1.86	0.56
1:f:579:GLN:NE2	1:f:593:THR:OG1	2.35	0.56
1:g:405:LEU:HB2	1:g:409:ASN:HB2	1.87	0.56
1:h:312:ARG:HG2	1:h:416:GLU:HG2	1.87	0.56
1:i:228:TRP:HE3	1:7:404:MET:HE3	1.69	0.56
1:i:543:PHE:O	1:i:559:MET:N	2.33	0.56
1:j:312:ARG:HG2	1:j:416:GLU:HG2	1.86	0.56
1:k:579:GLN:NE2	1:k:593:THR:OG1	2.35	0.56
1:m:490:SER:HA	1:m:534:PHE:HA	1.85	0.56
1:m:579:GLN:NE2	1:m:593:THR:OG1	2.35	0.56
1:n:373:MET:HE3	1:z:662:PHE:HA	1.87	0.56
1:o:373:MET:HE3	1:v:662:PHE:HA	1.87	0.56
1:p:716:ASN:OD1	1:p:717:THR:N	2.31	0.56
1:q:238:ARG:HH12	1:q:240:ILE:HD11	1.69	0.56
1:q:418:GLU:OE2	1:q:641:LYS:N	2.38	0.56
1:s:418:GLU:OE2	1:s:641:LYS:N	2.38	0.56
1:x:405:LEU:HB2	1:x:409:ASN:HB2	1.87	0.56
1:8:405:LEU:HB2	1:8:409:ASN:HB2	1.87	0.56
1:8:418:GLU:OE2	1:8:641:LYS:N	2.38	0.56
1:A:405:LEU:HB2	1:A:409:ASN:HB2	1.87	0.56
1:B:611:ASP:OD1	1:B:612:VAL:N	2.38	0.56
1:F:312:ARG:HG2	1:F:416:GLU:HG2	1.86	0.56
1:I:405:LEU:HB2	1:I:409:ASN:HB2	1.87	0.56
1:L:373:MET:HE3	1:2:662:PHE:HA	1.88	0.56
1:V:312:ARG:HG2	1:V:416:GLU:HG2	1.86	0.56
1:V:325:VAL:O	1:V:672:THR:OG1	2.22	0.56
1:Y:543:PHE:O	1:Y:559:MET:N	2.33	0.56
1:c:405:LEU:HB2	1:c:409:ASN:HB2	1.87	0.56
1:n:418:GLU:OE2	1:n:641:LYS:N	2.38	0.56
1:p:228:TRP:HE3	1:q:404:MET:HE3	1.69	0.56
1:s:405:LEU:HB2	1:s:409:ASN:HB2	1.87	0.56
1:w:543:PHE:O	1:w:559:MET:N	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:579:GLN:NE2	1:H:593:THR:OG1	2.35	0.56
1:J:373:MET:HE3	1:1:662:PHE:HA	1.88	0.56
1:K:312:ARG:HG2	1:K:416:GLU:HG2	1.86	0.56
1:P:543:PHE:O	1:P:559:MET:N	2.33	0.56
1:R:579:GLN:NE2	1:R:593:THR:OG1	2.35	0.56
1:R:662:PHE:HA	1:V:373:MET:HE3	1.87	0.56
1:T:418:GLU:OE2	1:T:641:LYS:N	2.38	0.56
1:U:405:LEU:HB2	1:U:409:ASN:HB2	1.87	0.56
1:X:405:LEU:HB2	1:X:409:ASN:HB2	1.87	0.56
1:Y:418:GLU:OE2	1:Y:641:LYS:N	2.38	0.56
1:Y:490:SER:HA	1:Y:534:PHE:HA	1.85	0.56
1:Z:418:GLU:OE2	1:Z:641:LYS:N	2.38	0.56
1:3:405:LEU:HB2	1:3:409:ASN:HB2	1.87	0.56
1:3:579:GLN:NE2	1:3:593:THR:OG1	2.35	0.56
1:a:404:MET:HE3	1:e:228:TRP:HE3	1.71	0.56
1:d:662:PHE:HA	1:f:373:MET:HE3	1.87	0.56
1:f:543:PHE:O	1:f:559:MET:N	2.33	0.56
1:f:662:PHE:HA	1:h:373:MET:HE3	1.88	0.56
1:h:325:VAL:O	1:h:672:THR:OG1	2.22	0.56
1:m:418:GLU:OE2	1:m:641:LYS:N	2.38	0.56
1:m:543:PHE:O	1:m:559:MET:N	2.33	0.56
1:n:405:LEU:HB2	1:n:409:ASN:HB2	1.87	0.56
1:n:552:ASN:HA	1:p:462:LYS:HB3	1.87	0.56
1:p:611:ASP:OD1	1:p:612:VAL:N	2.38	0.56
1:s:312:ARG:HG2	1:s:416:GLU:HG2	1.86	0.56
1:y:312:ARG:HG2	1:y:416:GLU:HG2	1.86	0.56
1:y:462:LYS:HB3	1:z:552:ASN:HA	1.87	0.56
1:z:462:LYS:HB3	1:7:552:ASN:HA	1.87	0.56
1:D:404:MET:HE3	1:E:228:TRP:HE3	1.71	0.56
1:F:418:GLU:OE2	1:F:641:LYS:N	2.38	0.56
1:I:312:ARG:HG2	1:I:416:GLU:HG2	1.86	0.56
1:O:611:ASP:OD1	1:O:612:VAL:N	2.38	0.56
1:S:418:GLU:OE2	1:S:641:LYS:N	2.38	0.56
1:Y:405:LEU:HB2	1:Y:409:ASN:HB2	1.87	0.56
1:b:238:ARG:HH12	1:b:240:ILE:HD11	1.69	0.56
1:d:462:LYS:HB3	1:e:552:ASN:HA	1.87	0.56
1:e:662:PHE:HA	1:q:373:MET:HE3	1.87	0.56
1:h:418:GLU:OE2	1:h:641:LYS:N	2.38	0.56
1:i:418:GLU:OE2	1:i:641:LYS:N	2.38	0.56
1:j:418:GLU:OE2	1:j:641:LYS:N	2.38	0.56
1:m:405:LEU:HB2	1:m:409:ASN:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:611:ASP:OD1	1:o:612:VAL:N	2.38	0.56
1:q:405:LEU:HB2	1:q:409:ASN:HB2	1.87	0.56
1:w:418:GLU:OE2	1:w:641:LYS:N	2.38	0.56
1:A:404:MET:HE3	1:B:228:TRP:HE3	1.69	0.56
1:B:462:LYS:HB3	1:J:552:ASN:HA	1.87	0.56
1:B:716:ASN:OD1	1:B:717:THR:N	2.31	0.56
1:E:418:GLU:OE2	1:E:641:LYS:N	2.38	0.56
1:E:552:ASN:HA	1:F:462:LYS:HB3	1.87	0.56
1:F:662:PHE:HA	1:R:373:MET:HE3	1.87	0.56
1:H:312:ARG:HG2	1:H:416:GLU:HG2	1.86	0.56
1:J:405:LEU:HB2	1:J:409:ASN:HB2	1.87	0.56
1:K:373:MET:HE3	1:L:662:PHE:HA	1.87	0.56
1:L:611:ASP:OD1	1:L:612:VAL:N	2.38	0.56
1:P:238:ARG:HH12	1:P:240:ILE:HD11	1.69	0.56
1:U:579:GLN:NE2	1:U:593:THR:OG1	2.35	0.56
1:V:418:GLU:OE2	1:V:641:LYS:N	2.38	0.56
1:W:405:LEU:HB2	1:W:409:ASN:HB2	1.87	0.56
1:Y:312:ARG:HG2	1:Y:416:GLU:HG2	1.87	0.56
1:Z:462:LYS:HB3	1:x:552:ASN:HA	1.87	0.56
1:3:418:GLU:OE2	1:3:641:LYS:N	2.38	0.56
1:4:611:ASP:OD1	1:4:612:VAL:N	2.38	0.56
1:a:579:GLN:NE2	1:a:593:THR:OG1	2.35	0.56
1:d:418:GLU:OE2	1:d:641:LYS:N	2.38	0.56
1:n:611:ASP:OD1	1:n:612:VAL:N	2.38	0.56
1:r:462:LYS:HB3	1:s:552:ASN:HA	1.87	0.56
1:x:543:PHE:O	1:x:559:MET:N	2.33	0.56
1:x:579:GLN:NE2	1:x:593:THR:OG1	2.35	0.56
1:C:611:ASP:OD1	1:C:612:VAL:N	2.38	0.56
1:D:579:GLN:NE2	1:D:593:THR:OG1	2.35	0.56
1:G:462:LYS:HB3	1:I:552:ASN:HA	1.87	0.56
1:H:662:PHE:HA	1:Z:373:MET:HE3	1.87	0.56
1:S:238:ARG:HH12	1:S:240:ILE:HD11	1.69	0.56
1:S:312:ARG:HG2	1:S:416:GLU:HG2	1.86	0.56
1:T:238:ARG:HH12	1:T:240:ILE:HD11	1.68	0.56
1:2:312:ARG:HG2	1:2:416:GLU:HG2	1.87	0.56
1:3:552:ASN:HA	1:j:462:LYS:HB3	1.87	0.56
1:e:418:GLU:OE2	1:e:641:LYS:N	2.38	0.56
1:j:373:MET:HE3	1:k:662:PHE:HA	1.87	0.56
1:k:312:ARG:HG2	1:k:416:GLU:HG2	1.86	0.56
1:l:405:LEU:HB2	1:l:409:ASN:HB2	1.87	0.56
1:q:543:PHE:O	1:q:559:MET:N	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:312:ARG:HG2	1:v:416:GLU:HG2	1.87	0.56
1:A:373:MET:HE3	1:E:662:PHE:HA	1.88	0.56
1:B:405:LEU:HB2	1:B:409:ASN:HB2	1.87	0.56
1:C:418:GLU:OE2	1:C:641:LYS:N	2.38	0.56
1:J:611:ASP:OD1	1:J:612:VAL:N	2.39	0.56
1:K:462:LYS:HB3	1:1:552:ASN:HA	1.87	0.56
1:N:405:LEU:HB2	1:N:409:ASN:HB2	1.87	0.56
1:T:404:MET:HE3	1:c:228:TRP:HE3	1.69	0.56
1:U:611:ASP:OD1	1:U:612:VAL:N	2.39	0.56
1:3:543:PHE:O	1:3:559:MET:N	2.33	0.56
1:m:312:ARG:HG2	1:m:416:GLU:HG2	1.87	0.56
1:o:662:PHE:HA	1:y:373:MET:HE3	1.87	0.56
1:u:418:GLU:OE2	1:u:641:LYS:N	2.38	0.56
1:v:405:LEU:HB2	1:v:409:ASN:HB2	1.87	0.56
1:x:418:GLU:OE2	1:x:641:LYS:N	2.38	0.56
1:A:543:PHE:O	1:A:559:MET:N	2.33	0.56
1:B:662:PHE:HA	1:C:373:MET:HE3	1.87	0.56
1:F:543:PHE:O	1:F:559:MET:N	2.33	0.56
1:G:373:MET:HE3	1:W:662:PHE:HA	1.87	0.56
1:N:462:LYS:HB3	1:P:552:ASN:HA	1.87	0.56
1:O:373:MET:HE3	1:P:662:PHE:HA	1.88	0.56
1:Q:228:TRP:HE3	1:S:404:MET:HE3	1.69	0.56
1:R:405:LEU:HB2	1:R:409:ASN:HB2	1.87	0.56
1:R:611:ASP:OD1	1:R:612:VAL:N	2.38	0.56
1:S:325:VAL:O	1:S:672:THR:OG1	2.22	0.56
1:S:462:LYS:HB3	1:U:552:ASN:HA	1.87	0.56
1:T:312:ARG:HG2	1:T:416:GLU:HG2	1.87	0.56
1:V:552:ASN:HA	1:X:462:LYS:HB3	1.87	0.56
1:2:405:LEU:HB2	1:2:409:ASN:HB2	1.87	0.56
1:3:462:LYS:HB3	1:i:552:ASN:HA	1.87	0.56
1:5:611:ASP:OD1	1:5:612:VAL:N	2.38	0.56
1:d:611:ASP:OD1	1:d:612:VAL:N	2.38	0.56
1:f:405:LEU:HB2	1:f:409:ASN:HB2	1.87	0.56
1:g:462:LYS:HB3	1:h:552:ASN:HA	1.87	0.56
1:n:312:ARG:HG2	1:n:416:GLU:HG2	1.86	0.56
1:p:405:LEU:HB2	1:p:409:ASN:HB2	1.87	0.56
1:t:311:LYS:HE2	1:t:686:GLU:HB3	1.88	0.56
1:u:611:ASP:OD1	1:u:612:VAL:N	2.38	0.56
1:w:373:MET:HE3	1:8:662:PHE:HA	1.87	0.56
1:F:611:ASP:OD1	1:F:612:VAL:N	2.38	0.55
1:I:373:MET:HE3	1:J:662:PHE:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:312:ARG:HG2	1:J:416:GLU:HG2	1.86	0.55
1:K:611:ASP:OD1	1:K:612:VAL:N	2.39	0.55
1:M:311:LYS:HE2	1:M:686:GLU:HB3	1.89	0.55
1:N:611:ASP:OD1	1:N:612:VAL:N	2.38	0.55
1:R:462:LYS:HB3	1:S:552:ASN:HA	1.87	0.55
1:R:552:ASN:HA	1:U:462:LYS:HB3	1.87	0.55
1:T:325:VAL:O	1:T:672:THR:OG1	2.22	0.55
1:V:311:LYS:HE2	1:V:686:GLU:HB3	1.89	0.55
1:1:405:LEU:HB2	1:1:409:ASN:HB2	1.87	0.55
1:1:543:PHE:O	1:1:559:MET:N	2.33	0.55
1:5:405:LEU:HB2	1:5:409:ASN:HB2	1.87	0.55
1:5:462:LYS:HB3	1:b:552:ASN:HA	1.87	0.55
1:e:312:ARG:HG2	1:e:416:GLU:HG2	1.86	0.55
1:i:373:MET:HE3	1:7:662:PHE:HA	1.88	0.55
1:l:579:GLN:NE2	1:l:593:THR:OG1	2.35	0.55
1:y:611:ASP:OD1	1:y:612:VAL:N	2.38	0.55
1:z:405:LEU:HB2	1:z:409:ASN:HB2	1.87	0.55
1:E:312:ARG:HG2	1:E:416:GLU:HG2	1.86	0.55
1:L:405:LEU:HB2	1:L:409:ASN:HB2	1.87	0.55
1:M:418:GLU:OE2	1:M:641:LYS:N	2.38	0.55
1:T:373:MET:HE3	1:U:662:PHE:HA	1.87	0.55
1:X:312:ARG:HG2	1:X:416:GLU:HG2	1.86	0.55
1:X:418:GLU:OE2	1:X:641:LYS:N	2.38	0.55
1:f:611:ASP:OD1	1:f:612:VAL:N	2.38	0.55
1:k:462:LYS:HB3	1:l:552:ASN:HA	1.87	0.55
1:l:662:PHE:HA	1:r:373:MET:HE3	1.87	0.55
1:n:662:PHE:HA	1:s:373:MET:HE3	1.87	0.55
1:p:662:PHE:HA	1:u:373:MET:HE3	1.87	0.55
1:w:552:ASN:HA	1:x:462:LYS:HB3	1.87	0.55
1:z:311:LYS:HE2	1:z:686:GLU:HB3	1.89	0.55
1:G:405:LEU:HB2	1:G:409:ASN:HB2	1.87	0.55
1:H:462:LYS:HB3	1:W:552:ASN:HA	1.87	0.55
1:1:311:LYS:HE2	1:1:686:GLU:HB3	1.89	0.55
1:d:543:PHE:O	1:d:559:MET:N	2.33	0.55
1:g:312:ARG:HG2	1:g:416:GLU:HG2	1.86	0.55
1:h:311:LYS:HE2	1:h:686:GLU:HB3	1.89	0.55
1:r:716:ASN:OD1	1:r:717:THR:N	2.31	0.55
1:t:404:MET:HE3	1:x:228:TRP:HE3	1.71	0.55
1:t:418:GLU:OE2	1:t:641:LYS:N	2.38	0.55
1:7:611:ASP:OD1	1:7:612:VAL:N	2.39	0.55
1:8:611:ASP:OD1	1:8:612:VAL:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:405:LEU:HB2	1:F:409:ASN:HB2	1.87	0.55
1:G:716:ASN:OD1	1:G:717:THR:N	2.31	0.55
1:M:404:MET:HE3	1:3:228:TRP:HE3	1.71	0.55
1:P:373:MET:HE3	1:Q:662:PHE:HA	1.87	0.55
1:S:405:LEU:HB2	1:S:409:ASN:HB2	1.87	0.55
1:T:552:ASN:HA	1:f:462:LYS:HB3	1.87	0.55
1:b:373:MET:HE3	1:c:662:PHE:HA	1.87	0.55
1:g:418:GLU:OE2	1:g:641:LYS:N	2.38	0.55
1:h:662:PHE:HA	1:l:373:MET:HE3	1.87	0.55
1:o:405:LEU:HB2	1:o:409:ASN:HB2	1.87	0.55
1:q:462:LYS:HB3	1:r:552:ASN:HA	1.87	0.55
1:v:579:GLN:NE2	1:v:593:THR:OG1	2.35	0.55
1:y:405:LEU:HB2	1:y:409:ASN:HB2	1.87	0.55
1:y:552:ASN:HA	1:7:462:LYS:HB3	1.87	0.55
1:z:543:PHE:O	1:z:559:MET:N	2.33	0.55
1:A:462:LYS:HB3	1:G:552:ASN:HA	1.87	0.55
1:C:311:LYS:HE2	1:C:686:GLU:HB3	1.89	0.55
1:H:311:LYS:HE2	1:H:686:GLU:HB3	1.89	0.55
1:H:373:MET:HE3	1:I:662:PHE:HA	1.88	0.55
1:K:405:LEU:HB2	1:K:409:ASN:HB2	1.87	0.55
1:W:579:GLN:NE2	1:W:593:THR:OG1	2.35	0.55
1:X:311:LYS:HE2	1:X:686:GLU:HB3	1.89	0.55
1:Z:405:LEU:HB2	1:Z:409:ASN:HB2	1.87	0.55
1:2:579:GLN:NE2	1:2:593:THR:OG1	2.35	0.55
1:g:311:LYS:HE2	1:g:686:GLU:HB3	1.89	0.55
1:j:716:ASN:OD1	1:j:717:THR:N	2.31	0.55
1:r:405:LEU:HB2	1:r:409:ASN:HB2	1.87	0.55
1:u:311:LYS:HE2	1:u:686:GLU:HB3	1.89	0.55
1:K:662:PHE:HA	1:7:373:MET:HE3	1.87	0.55
1:M:552:ASN:HA	1:2:462:LYS:HB3	1.88	0.55
1:U:373:MET:HE3	1:4:662:PHE:HA	1.88	0.55
1:V:462:LYS:HB3	1:4:552:ASN:HA	1.87	0.55
1:V:662:PHE:HA	1:W:373:MET:HE3	1.87	0.55
1:X:552:ASN:HA	1:4:462:LYS:HB3	1.87	0.55
1:Z:552:ASN:HA	1:w:462:LYS:HB3	1.87	0.55
1:Z:716:ASN:OD1	1:Z:717:THR:N	2.31	0.55
1:4:311:LYS:HE2	1:4:686:GLU:HB3	1.89	0.55
1:a:311:LYS:HE2	1:a:686:GLU:HB3	1.88	0.55
1:d:405:LEU:HB2	1:d:409:ASN:HB2	1.88	0.55
1:h:611:ASP:OD1	1:h:612:VAL:N	2.38	0.55
1:i:716:ASN:OD1	1:i:717:THR:N	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:373:MET:HE3	1:s:662:PHE:HA	1.87	0.55
1:k:552:ASN:HA	1:m:462:LYS:HB3	1.87	0.55
1:t:552:ASN:HA	1:v:462:LYS:HB3	1.88	0.55
1:D:311:LYS:HE2	1:D:686:GLU:HB3	1.88	0.55
1:T:405:LEU:HB2	1:T:409:ASN:HB2	1.87	0.55
1:i:462:LYS:HB3	1:j:552:ASN:HA	1.87	0.55
1:H:552:ASN:HA	1:Y:462:LYS:HB3	1.87	0.55
1:U:311:LYS:HE2	1:U:686:GLU:HB3	1.89	0.55
1:V:611:ASP:OD1	1:V:612:VAL:N	2.39	0.55
1:3:662:PHE:HA	1:m:373:MET:HE3	1.87	0.55
1:h:405:LEU:HB2	1:h:409:ASN:HB2	1.87	0.55
1:j:405:LEU:HB2	1:j:409:ASN:HB2	1.88	0.55
1:r:579:GLN:NE2	1:r:593:THR:OG1	2.35	0.55
1:w:716:ASN:OD1	1:w:717:THR:N	2.31	0.55
1:K:634:LEU:HD11	1:8:604:GLY:HA3	1.89	0.55
1:O:311:LYS:HE2	1:O:686:GLU:HB3	1.89	0.55
1:O:543:PHE:O	1:O:559:MET:N	2.33	0.55
1:Y:373:MET:HE3	1:x:662:PHE:HA	1.87	0.55
1:1:611:ASP:OD1	1:1:612:VAL:N	2.38	0.55
1:4:543:PHE:O	1:4:559:MET:N	2.33	0.55
1:b:405:LEU:HB2	1:b:409:ASN:HB2	1.87	0.55
1:g:611:ASP:OD1	1:g:612:VAL:N	2.38	0.55
1:z:611:ASP:OD1	1:z:612:VAL:N	2.38	0.55
1:A:662:PHE:HA	1:B:373:MET:HE3	1.88	0.55
1:J:495:GLN:OE1	1:J:533:ARG:NH1	2.40	0.55
1:N:495:GLN:OE1	1:N:533:ARG:NH1	2.40	0.55
1:X:611:ASP:OD1	1:X:612:VAL:N	2.38	0.55
1:5:495:GLN:OE1	1:5:533:ARG:NH1	2.40	0.55
1:d:373:MET:HE3	1:r:662:PHE:HA	1.87	0.55
1:i:405:LEU:HB2	1:i:409:ASN:HB2	1.87	0.55
1:n:495:GLN:OE1	1:n:533:ARG:NH1	2.40	0.55
1:w:405:LEU:HB2	1:w:409:ASN:HB2	1.87	0.55
1:F:373:MET:HE3	1:G:662:PHE:HA	1.88	0.54
1:G:579:GLN:NE2	1:G:593:THR:OG1	2.35	0.54
1:V:405:LEU:HB2	1:V:409:ASN:HB2	1.87	0.54
1:2:495:GLN:OE1	1:2:533:ARG:NH1	2.40	0.54
1:f:311:LYS:HE2	1:f:686:GLU:HB3	1.89	0.54
1:v:311:LYS:HE2	1:v:686:GLU:HB3	1.89	0.54
1:v:495:GLN:OE1	1:v:533:ARG:NH1	2.40	0.54
1:x:495:GLN:OE1	1:x:533:ARG:NH1	2.40	0.54
1:B:495:GLN:OE1	1:B:533:ARG:NH1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:495:GLN:OE1	1:H:533:ARG:NH1	2.40	0.54
1:L:495:GLN:OE1	1:L:533:ARG:NH1	2.41	0.54
1:M:495:GLN:OE1	1:M:533:ARG:NH1	2.40	0.54
1:N:373:MET:HE3	1:g:662:PHE:HA	1.87	0.54
1:O:317:LEU:HD13	1:O:679:VAL:HG12	1.90	0.54
1:O:495:GLN:OE1	1:O:533:ARG:NH1	2.40	0.54
1:S:317:LEU:HD13	1:S:679:VAL:HG12	1.90	0.54
1:X:662:PHE:HA	1:5:373:MET:HE3	1.87	0.54
1:Z:317:LEU:HD13	1:Z:679:VAL:HG12	1.90	0.54
1:1:495:GLN:OE1	1:1:533:ARG:NH1	2.40	0.54
1:3:495:GLN:OE1	1:3:533:ARG:NH1	2.40	0.54
1:5:662:PHE:HA	1:t:373:MET:HE3	1.90	0.54
1:c:495:GLN:OE1	1:c:533:ARG:NH1	2.40	0.54
1:d:495:GLN:OE1	1:d:533:ARG:NH1	2.40	0.54
1:k:495:GLN:OE1	1:k:533:ARG:NH1	2.40	0.54
1:o:311:LYS:HE2	1:o:686:GLU:HB3	1.89	0.54
1:p:373:MET:HE3	1:q:662:PHE:HA	1.88	0.54
1:u:405:LEU:HB2	1:u:409:ASN:HB2	1.87	0.54
1:v:611:ASP:OD1	1:v:612:VAL:N	2.38	0.54
1:8:495:GLN:OE1	1:8:533:ARG:NH1	2.40	0.54
1:C:495:GLN:OE1	1:C:533:ARG:NH1	2.40	0.54
1:F:495:GLN:OE1	1:F:533:ARG:NH1	2.41	0.54
1:H:405:LEU:HB2	1:H:409:ASN:HB2	1.87	0.54
1:I:317:LEU:HD13	1:I:679:VAL:HG12	1.90	0.54
1:M:373:MET:HE3	1:N:662:PHE:HA	1.90	0.54
1:P:405:LEU:HB2	1:P:409:ASN:HB2	1.87	0.54
1:P:611:ASP:OD1	1:P:612:VAL:N	2.38	0.54
1:Q:495:GLN:OE1	1:Q:533:ARG:NH1	2.40	0.54
1:R:495:GLN:OE1	1:R:533:ARG:NH1	2.40	0.54
1:T:317:LEU:HD13	1:T:679:VAL:HG12	1.90	0.54
1:X:373:MET:HE3	1:Y:662:PHE:HA	1.88	0.54
1:X:543:PHE:O	1:X:559:MET:N	2.33	0.54
1:2:311:LYS:HE2	1:2:686:GLU:HB3	1.89	0.54
1:2:611:ASP:OD1	1:2:612:VAL:N	2.39	0.54
1:4:495:GLN:OE1	1:4:533:ARG:NH1	2.41	0.54
1:f:495:GLN:OE1	1:f:533:ARG:NH1	2.41	0.54
1:g:373:MET:HE3	1:m:662:PHE:HA	1.88	0.54
1:i:495:GLN:OE1	1:i:533:ARG:NH1	2.40	0.54
1:j:317:LEU:HD13	1:j:679:VAL:HG12	1.90	0.54
1:m:495:GLN:OE1	1:m:533:ARG:NH1	2.40	0.54
1:o:495:GLN:OE1	1:o:533:ARG:NH1	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:495:GLN:OE1	1:q:533:ARG:NH1	2.40	0.54
1:s:317:LEU:HD13	1:s:679:VAL:HG12	1.90	0.54
1:t:495:GLN:OE1	1:t:533:ARG:NH1	2.40	0.54
1:t:611:ASP:OD1	1:t:612:VAL:N	2.38	0.54
1:z:495:GLN:OE1	1:z:533:ARG:NH1	2.40	0.54
1:7:495:GLN:OE1	1:7:533:ARG:NH1	2.40	0.54
1:A:317:LEU:HD13	1:A:679:VAL:HG12	1.90	0.54
1:A:495:GLN:OE1	1:A:533:ARG:NH1	2.40	0.54
1:B:317:LEU:HD13	1:B:679:VAL:HG12	1.90	0.54
1:C:405:LEU:HB2	1:C:409:ASN:HB2	1.87	0.54
1:I:495:GLN:OE1	1:I:533:ARG:NH1	2.40	0.54
1:R:311:LYS:HE2	1:R:686:GLU:HB3	1.89	0.54
1:U:495:GLN:OE1	1:U:533:ARG:NH1	2.40	0.54
1:Y:495:GLN:OE1	1:Y:533:ARG:NH1	2.40	0.54
1:Y:611:ASP:OD1	1:Y:612:VAL:N	2.38	0.54
1:4:317:LEU:HD13	1:4:679:VAL:HG12	1.90	0.54
1:5:311:LYS:HE2	1:5:686:GLU:HB3	1.89	0.54
1:b:611:ASP:OD1	1:b:612:VAL:N	2.38	0.54
1:g:543:PHE:O	1:g:559:MET:N	2.33	0.54
1:i:311:LYS:HE2	1:i:686:GLU:HB3	1.89	0.54
1:k:405:LEU:HB2	1:k:409:ASN:HB2	1.87	0.54
1:p:317:LEU:HD13	1:p:679:VAL:HG12	1.90	0.54
1:p:495:GLN:OE1	1:p:533:ARG:NH1	2.41	0.54
1:s:611:ASP:OD1	1:s:612:VAL:N	2.39	0.54
1:u:495:GLN:OE1	1:u:533:ARG:NH1	2.40	0.54
1:w:495:GLN:OE1	1:w:533:ARG:NH1	2.40	0.54
1:C:662:PHE:HA	1:D:373:MET:HE3	1.90	0.54
1:I:611:ASP:OD1	1:I:612:VAL:N	2.39	0.54
1:K:317:LEU:HD13	1:K:679:VAL:HG12	1.90	0.54
1:K:495:GLN:OE1	1:K:533:ARG:NH1	2.40	0.54
1:L:311:LYS:HE2	1:L:686:GLU:HB3	1.89	0.54
1:M:611:ASP:OD1	1:M:612:VAL:N	2.38	0.54
1:O:552:ASN:HA	1:h:462:LYS:HB3	1.88	0.54
1:V:495:GLN:OE1	1:V:533:ARG:NH1	2.40	0.54
1:1:317:LEU:HD13	1:1:679:VAL:HG12	1.90	0.54
1:a:373:MET:HE3	1:u:662:PHE:HA	1.90	0.54
1:m:611:ASP:OD1	1:m:612:VAL:N	2.38	0.54
1:q:317:LEU:HD13	1:q:679:VAL:HG12	1.90	0.54
1:s:495:GLN:OE1	1:s:533:ARG:NH1	2.40	0.54
1:w:311:LYS:HE2	1:w:686:GLU:HB3	1.89	0.54
1:y:317:LEU:HD13	1:y:679:VAL:HG12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:495:GLN:OE1	1:y:533:ARG:NH1	2.41	0.54
1:D:233:GLN:HE21	1:D:240:ILE:HD12	1.73	0.54
1:J:317:LEU:HD13	1:J:679:VAL:HG12	1.90	0.54
1:M:380:LEU:HD21	1:2:438:PRO:HB3	1.90	0.54
1:N:311:LYS:HE2	1:N:686:GLU:HB3	1.89	0.54
1:P:495:GLN:OE1	1:P:533:ARG:NH1	2.40	0.54
1:W:233:GLN:HE21	1:W:240:ILE:HD12	1.73	0.54
1:X:233:GLN:HE21	1:X:240:ILE:HD12	1.73	0.54
1:Y:317:LEU:HD13	1:Y:679:VAL:HG12	1.90	0.54
1:a:233:GLN:HE21	1:a:240:ILE:HD12	1.73	0.54
1:b:317:LEU:HD13	1:b:679:VAL:HG12	1.90	0.54
1:f:233:GLN:HE21	1:f:240:ILE:HD12	1.73	0.54
1:h:495:GLN:OE1	1:h:533:ARG:NH1	2.41	0.54
1:i:290:HIS:CD2	1:i:366:PRO:HB3	2.43	0.54
1:j:311:LYS:HE2	1:j:686:GLU:HB3	1.89	0.54
1:l:233:GLN:HE21	1:l:240:ILE:HD12	1.73	0.54
1:l:495:GLN:OE1	1:l:533:ARG:NH1	2.40	0.54
1:p:233:GLN:HE21	1:p:240:ILE:HD12	1.73	0.54
1:r:495:GLN:OE1	1:r:533:ARG:NH1	2.40	0.54
1:t:380:LEU:HD21	1:v:438:PRO:HB3	1.90	0.54
1:x:317:LEU:HD13	1:x:679:VAL:HG12	1.90	0.54
1:y:233:GLN:HE21	1:y:240:ILE:HD12	1.73	0.54
1:z:317:LEU:HD13	1:z:679:VAL:HG12	1.90	0.54
1:B:233:GLN:HE21	1:B:240:ILE:HD12	1.73	0.54
1:G:495:GLN:OE1	1:G:533:ARG:NH1	2.40	0.54
1:G:611:ASP:OD1	1:G:612:VAL:N	2.39	0.54
1:K:233:GLN:HE21	1:K:240:ILE:HD12	1.73	0.54
1:N:233:GLN:HE21	1:N:240:ILE:HD12	1.73	0.54
1:P:311:LYS:HE2	1:P:686:GLU:HB3	1.89	0.54
1:P:317:LEU:HD13	1:P:679:VAL:HG12	1.90	0.54
1:Q:611:ASP:OD1	1:Q:612:VAL:N	2.38	0.54
1:R:233:GLN:HE21	1:R:240:ILE:HD12	1.73	0.54
1:T:611:ASP:OD1	1:T:612:VAL:N	2.38	0.54
1:W:495:GLN:OE1	1:W:533:ARG:NH1	2.40	0.54
1:b:311:LYS:HE2	1:b:686:GLU:HB3	1.89	0.54
1:b:495:GLN:OE1	1:b:533:ARG:NH1	2.40	0.54
1:c:611:ASP:OD1	1:c:612:VAL:N	2.39	0.54
1:d:233:GLN:HE21	1:d:240:ILE:HD12	1.73	0.54
1:e:317:LEU:HD13	1:e:679:VAL:HG12	1.90	0.54
1:g:233:GLN:HE21	1:g:240:ILE:HD12	1.73	0.54
1:m:317:LEU:HD13	1:m:679:VAL:HG12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:317:LEU:HD13	1:n:679:VAL:HG12	1.90	0.54
1:E:233:GLN:HE21	1:E:240:ILE:HD12	1.73	0.54
1:E:317:LEU:HD13	1:E:679:VAL:HG12	1.90	0.54
1:F:233:GLN:HE21	1:F:240:ILE:HD12	1.73	0.54
1:H:290:HIS:CD2	1:H:366:PRO:HB3	2.43	0.54
1:I:233:GLN:HE21	1:I:240:ILE:HD12	1.73	0.54
1:K:311:LYS:HE2	1:K:686:GLU:HB3	1.89	0.54
1:L:290:HIS:CD2	1:L:366:PRO:HB3	2.43	0.54
1:L:311:LYS:CE	1:L:686:GLU:CB	2.86	0.54
1:O:462:LYS:HB3	1:g:552:ASN:HA	1.89	0.54
1:P:290:HIS:CD2	1:P:366:PRO:HB3	2.43	0.54
1:Q:311:LYS:HE2	1:Q:686:GLU:HB3	1.89	0.54
1:T:495:GLN:OE1	1:T:533:ARG:NH1	2.40	0.54
1:Z:495:GLN:OE1	1:Z:533:ARG:NH1	2.41	0.54
1:1:311:LYS:CE	1:1:686:GLU:CB	2.86	0.54
1:1:462:LYS:HB3	1:8:552:ASN:HA	1.89	0.54
1:3:317:LEU:HD13	1:3:679:VAL:HG12	1.90	0.54
1:b:290:HIS:CD2	1:b:366:PRO:HB3	2.43	0.54
1:c:290:HIS:CD2	1:c:366:PRO:HB3	2.43	0.54
1:e:233:GLN:HE21	1:e:240:ILE:HD12	1.73	0.54
1:j:495:GLN:OE1	1:j:533:ARG:NH1	2.40	0.54
1:o:311:LYS:CE	1:o:686:GLU:CB	2.86	0.54
1:s:233:GLN:HE21	1:s:240:ILE:HD12	1.73	0.54
1:w:290:HIS:CD2	1:w:366:PRO:HB3	2.43	0.54
1:7:233:GLN:HE21	1:7:240:ILE:HD12	1.73	0.54
1:8:233:GLN:HE21	1:8:240:ILE:HD12	1.73	0.54
1:D:380:LEU:HD21	1:P:438:PRO:HB3	1.90	0.54
1:E:290:HIS:CD2	1:E:366:PRO:HB3	2.43	0.54
1:G:311:LYS:HE2	1:G:686:GLU:HB3	1.89	0.54
1:K:581:ALA:O	1:1:485:ARG:HD3	2.08	0.54
1:Q:290:HIS:CD2	1:Q:366:PRO:HB3	2.43	0.54
1:S:311:LYS:CE	1:S:686:GLU:CB	2.86	0.54
1:S:495:GLN:OE1	1:S:533:ARG:NH1	2.40	0.54
1:T:311:LYS:CE	1:T:686:GLU:CB	2.86	0.54
1:U:290:HIS:CD2	1:U:366:PRO:HB3	2.43	0.54
1:X:495:GLN:OE1	1:X:533:ARG:NH1	2.41	0.54
1:Z:311:LYS:HE2	1:Z:686:GLU:HB3	1.89	0.54
1:3:290:HIS:CD2	1:3:366:PRO:HB3	2.43	0.54
1:5:233:GLN:HE21	1:5:240:ILE:HD12	1.73	0.54
1:c:317:LEU:HD13	1:c:679:VAL:HG12	1.90	0.54
1:g:495:GLN:OE1	1:g:533:ARG:NH1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:290:HIS:CD2	1:k:366:PRO:HB3	2.43	0.54
1:o:290:HIS:CD2	1:o:366:PRO:HB3	2.43	0.54
1:s:311:LYS:HE2	1:s:686:GLU:HB3	1.89	0.54
1:x:290:HIS:CD2	1:x:366:PRO:HB3	2.43	0.54
1:D:495:GLN:OE1	1:D:533:ARG:NH1	2.40	0.54
1:H:317:LEU:HD13	1:H:679:VAL:HG12	1.90	0.54
1:I:311:LYS:HE2	1:I:686:GLU:HB3	1.89	0.54
1:J:355:VAL:H	1:J:646:GLN:HE22	1.56	0.54
1:M:233:GLN:HE21	1:M:240:ILE:HD12	1.73	0.54
1:R:438:PRO:HB3	1:S:380:LEU:HD21	1.90	0.54
1:S:611:ASP:OD1	1:S:612:VAL:N	2.39	0.54
1:2:355:VAL:H	1:2:646:GLN:HE22	1.56	0.54
1:a:495:GLN:OE1	1:a:533:ARG:NH1	2.40	0.54
1:c:233:GLN:HE21	1:c:240:ILE:HD12	1.73	0.54
1:c:543:PHE:O	1:c:559:MET:N	2.33	0.54
1:e:290:HIS:CD2	1:e:366:PRO:HB3	2.43	0.54
1:m:233:GLN:HE21	1:m:240:ILE:HD12	1.73	0.54
1:n:311:LYS:HE2	1:n:686:GLU:HB3	1.89	0.54
1:n:355:VAL:H	1:n:646:GLN:HE22	1.56	0.54
1:r:611:ASP:OD1	1:r:612:VAL:N	2.39	0.54
1:t:233:GLN:HE21	1:t:240:ILE:HD12	1.73	0.54
1:8:317:LEU:HD13	1:8:679:VAL:HG12	1.90	0.54
1:C:355:VAL:H	1:C:646:GLN:HE22	1.57	0.53
1:D:290:HIS:CD2	1:D:366:PRO:HB3	2.43	0.53
1:E:355:VAL:H	1:E:646:GLN:HE22	1.56	0.53
1:H:233:GLN:HE21	1:H:240:ILE:HD12	1.73	0.53
1:L:355:VAL:H	1:L:646:GLN:HE22	1.56	0.53
1:O:233:GLN:HE21	1:O:240:ILE:HD12	1.73	0.53
1:Q:233:GLN:HE21	1:Q:240:ILE:HD12	1.73	0.53
1:Q:317:LEU:HD13	1:Q:679:VAL:HG12	1.90	0.53
1:Z:233:GLN:HE21	1:Z:240:ILE:HD12	1.73	0.53
1:1:438:PRO:HB3	1:8:380:LEU:HD21	1.89	0.53
1:1:581:ALA:O	1:8:485:ARG:HD3	2.07	0.53
1:3:311:LYS:CE	1:3:686:GLU:CB	2.86	0.53
1:4:233:GLN:HE21	1:4:240:ILE:HD12	1.73	0.53
1:a:290:HIS:CD2	1:a:366:PRO:HB3	2.43	0.53
1:a:380:LEU:HD21	1:b:438:PRO:HB3	1.90	0.53
1:c:311:LYS:HE2	1:c:686:GLU:HB3	1.89	0.53
1:e:355:VAL:H	1:e:646:GLN:HE22	1.56	0.53
1:j:290:HIS:CD2	1:j:366:PRO:HB3	2.43	0.53
1:j:611:ASP:OD1	1:j:612:VAL:N	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:317:LEU:HD13	1:k:679:VAL:HG12	1.90	0.53
1:o:355:VAL:H	1:o:646:GLN:HE22	1.56	0.53
1:r:311:LYS:HE2	1:r:686:GLU:HB3	1.89	0.53
1:v:355:VAL:H	1:v:646:GLN:HE22	1.56	0.53
1:x:311:LYS:HE2	1:x:686:GLU:HB3	1.89	0.53
1:y:311:LYS:HE2	1:y:686:GLU:HB3	1.89	0.53
1:7:317:LEU:HD13	1:7:679:VAL:HG12	1.90	0.53
1:7:699:ILE:HD13	1:8:703:SER:HB2	1.90	0.53
1:E:495:GLN:OE1	1:E:533:ARG:NH1	2.40	0.53
1:G:290:HIS:CD2	1:G:366:PRO:HB3	2.43	0.53
1:J:290:HIS:CD2	1:J:366:PRO:HB3	2.43	0.53
1:J:311:LYS:HE2	1:J:686:GLU:HB3	1.89	0.53
1:N:290:HIS:CD2	1:N:366:PRO:HB3	2.43	0.53
1:Q:543:PHE:O	1:Q:559:MET:N	2.33	0.53
1:W:311:LYS:CE	1:W:686:GLU:CB	2.86	0.53
1:Y:233:GLN:HE21	1:Y:240:ILE:HD12	1.73	0.53
1:Z:290:HIS:CD2	1:Z:366:PRO:HB3	2.43	0.53
1:Z:611:ASP:OD1	1:Z:612:VAL:N	2.38	0.53
1:Z:735:ASN:ND2	1:x:395:TYR:OH	2.42	0.53
1:3:311:LYS:HE2	1:3:686:GLU:HB3	1.89	0.53
1:3:395:TYR:OH	1:j:735:ASN:ND2	2.42	0.53
1:5:290:HIS:CD2	1:5:366:PRO:HB3	2.43	0.53
1:a:485:ARG:HD3	1:b:581:ALA:O	2.08	0.53
1:a:699:ILE:HD13	1:t:703:SER:HB2	1.90	0.53
1:e:495:GLN:OE1	1:e:533:ARG:NH1	2.40	0.53
1:f:290:HIS:CD2	1:f:366:PRO:HB3	2.43	0.53
1:k:233:GLN:HE21	1:k:240:ILE:HD12	1.73	0.53
1:u:355:VAL:H	1:u:646:GLN:HE22	1.57	0.53
1:7:290:HIS:CD2	1:7:366:PRO:HB3	2.43	0.53
1:8:290:HIS:CD2	1:8:366:PRO:HB3	2.43	0.53
1:B:311:LYS:HE2	1:B:686:GLU:HB3	1.89	0.53
1:D:485:ARG:HD3	1:P:581:ALA:O	2.08	0.53
1:D:699:ILE:HD13	1:M:703:SER:HB2	1.90	0.53
1:F:317:LEU:HD13	1:F:679:VAL:HG12	1.90	0.53
1:N:317:LEU:HD13	1:N:679:VAL:HG12	1.90	0.53
1:O:290:HIS:CD2	1:O:366:PRO:HB3	2.43	0.53
1:V:233:GLN:HE21	1:V:240:ILE:HD12	1.73	0.53
1:W:290:HIS:CD2	1:W:366:PRO:HB3	2.43	0.53
1:3:611:ASP:OD1	1:3:612:VAL:N	2.38	0.53
1:a:703:SER:HB2	1:t:699:ILE:HD13	1.90	0.53
1:b:233:GLN:HE21	1:b:240:ILE:HD12	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:290:HIS:CD2	1:d:366:PRO:HB3	2.43	0.53
1:d:317:LEU:HD13	1:d:679:VAL:HG12	1.90	0.53
1:f:317:LEU:HD13	1:f:679:VAL:HG12	1.90	0.53
1:h:233:GLN:HE21	1:h:240:ILE:HD12	1.73	0.53
1:h:322:VAL:CG1	1:h:673:GLN:HE21	2.22	0.53
1:j:233:GLN:HE21	1:j:240:ILE:HD12	1.73	0.53
1:k:355:VAL:H	1:k:646:GLN:HE22	1.56	0.53
1:l:290:HIS:CD2	1:l:366:PRO:HB3	2.43	0.53
1:n:290:HIS:CD2	1:n:366:PRO:HB3	2.43	0.53
1:p:311:LYS:HE2	1:p:686:GLU:HB3	1.89	0.53
1:r:290:HIS:CD2	1:r:366:PRO:HB3	2.43	0.53
1:t:317:LEU:HD13	1:t:679:VAL:HG12	1.90	0.53
1:t:485:ARG:HD3	1:v:581:ALA:O	2.08	0.53
1:y:395:TYR:OH	1:7:735:ASN:ND2	2.41	0.53
1:G:735:ASN:ND2	1:I:395:TYR:OH	2.41	0.53
1:H:355:VAL:H	1:H:646:GLN:HE22	1.56	0.53
1:M:317:LEU:HD13	1:M:679:VAL:HG12	1.90	0.53
1:M:485:ARG:HD3	1:2:581:ALA:O	2.08	0.53
1:R:290:HIS:CD2	1:R:366:PRO:HB3	2.43	0.53
1:R:317:LEU:HD13	1:R:679:VAL:HG12	1.90	0.53
1:S:702:THR:HG22	1:T:700:GLN:HB2	1.91	0.53
1:T:395:TYR:OH	1:f:735:ASN:ND2	2.40	0.53
1:T:485:ARG:HD3	1:f:581:ALA:O	2.07	0.53
1:V:290:HIS:CD2	1:V:366:PRO:HB3	2.43	0.53
1:V:322:VAL:CG1	1:V:673:GLN:HE21	2.22	0.53
1:W:311:LYS:HE2	1:W:686:GLU:HB3	1.89	0.53
1:W:317:LEU:HD13	1:W:679:VAL:HG12	1.90	0.53
1:W:581:ALA:O	1:Y:485:ARG:HD3	2.09	0.53
1:Z:543:PHE:O	1:Z:559:MET:N	2.33	0.53
1:5:317:LEU:HD13	1:5:679:VAL:HG12	1.90	0.53
1:h:290:HIS:CD2	1:h:366:PRO:HB3	2.43	0.53
1:l:311:LYS:CE	1:l:686:GLU:CB	2.86	0.53
1:l:317:LEU:HD13	1:l:679:VAL:HG12	1.90	0.53
1:l:581:ALA:O	1:m:485:ARG:HD3	2.09	0.53
1:m:311:LYS:HE2	1:m:686:GLU:HB3	1.89	0.53
1:r:735:ASN:ND2	1:s:395:TYR:OH	2.42	0.53
1:w:233:GLN:HE21	1:w:240:ILE:HD12	1.73	0.53
1:D:317:LEU:HD13	1:D:679:VAL:HG12	1.90	0.53
1:D:703:SER:HB2	1:M:699:ILE:HD13	1.90	0.53
1:F:290:HIS:CD2	1:F:366:PRO:HB3	2.43	0.53
1:L:317:LEU:HD13	1:L:679:VAL:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:233:GLN:HE21	1:P:240:ILE:HD12	1.73	0.53
1:X:290:HIS:CD2	1:X:366:PRO:HB3	2.43	0.53
1:4:290:HIS:CD2	1:4:366:PRO:HB3	2.43	0.53
1:i:233:GLN:HE21	1:i:240:ILE:HD12	1.73	0.53
1:x:611:ASP:OD1	1:x:612:VAL:N	2.38	0.53
1:A:611:ASP:OD1	1:A:612:VAL:N	2.38	0.53
1:B:322:VAL:CG1	1:B:673:GLN:HE21	2.22	0.53
1:C:735:ASN:ND2	1:2:395:TYR:OH	2.41	0.53
1:E:395:TYR:OH	1:F:735:ASN:ND2	2.41	0.53
1:F:395:TYR:OH	1:Q:735:ASN:ND2	2.42	0.53
1:H:611:ASP:OD1	1:H:612:VAL:N	2.39	0.53
1:I:290:HIS:CD2	1:I:366:PRO:HB3	2.43	0.53
1:M:325:VAL:HG22	1:M:334:ILE:HG12	1.91	0.53
1:M:355:VAL:H	1:M:646:GLN:HE22	1.56	0.53
1:P:325:VAL:HG22	1:P:334:ILE:HG12	1.91	0.53
1:T:383:ASN:ND2	1:T:385:GLY:O	2.42	0.53
1:V:325:VAL:HG22	1:V:334:ILE:HG12	1.91	0.53
1:X:485:ARG:HD3	1:4:581:ALA:O	2.09	0.53
1:Y:311:LYS:HE2	1:Y:686:GLU:HB3	1.89	0.53
1:2:290:HIS:CD2	1:2:366:PRO:HB3	2.43	0.53
1:a:317:LEU:HD13	1:a:679:VAL:HG12	1.90	0.53
1:a:322:VAL:CG1	1:a:673:GLN:HE21	2.22	0.53
1:c:581:ALA:O	1:d:485:ARG:HD3	2.09	0.53
1:c:735:ASN:ND2	1:d:395:TYR:OH	2.42	0.53
1:h:325:VAL:HG22	1:h:334:ILE:HG12	1.91	0.53
1:j:543:PHE:O	1:j:559:MET:N	2.33	0.53
1:k:611:ASP:OD1	1:k:612:VAL:N	2.39	0.53
1:l:311:LYS:HE2	1:l:686:GLU:HB3	1.89	0.53
1:o:317:LEU:HD13	1:o:679:VAL:HG12	1.90	0.53
1:q:290:HIS:CD2	1:q:366:PRO:HB3	2.43	0.53
1:v:233:GLN:HE21	1:v:240:ILE:HD12	1.73	0.53
1:v:290:HIS:CD2	1:v:366:PRO:HB3	2.43	0.53
1:w:485:ARG:HD3	1:x:581:ALA:O	2.09	0.53
1:y:383:ASN:ND2	1:y:385:GLY:O	2.42	0.53
1:y:581:ALA:O	1:z:485:ARG:HD3	2.09	0.53
1:7:700:GLN:HB2	1:8:702:THR:HG22	1.90	0.53
1:A:233:GLN:HE21	1:A:240:ILE:HD12	1.73	0.53
1:A:290:HIS:CD2	1:A:366:PRO:HB3	2.43	0.53
1:D:322:VAL:CG1	1:D:673:GLN:HE21	2.22	0.53
1:D:325:VAL:HG22	1:D:334:ILE:HG12	1.91	0.53
1:E:325:VAL:HG22	1:E:334:ILE:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:485:ARG:HD3	1:Q:581:ALA:O	2.09	0.53
1:P:355:VAL:H	1:P:646:GLN:HE22	1.56	0.53
1:S:290:HIS:CD2	1:S:366:PRO:HB3	2.43	0.53
1:S:311:LYS:HE2	1:S:686:GLU:HB3	1.89	0.53
1:S:383:ASN:ND2	1:S:385:GLY:O	2.42	0.53
1:V:311:LYS:CE	1:V:686:GLU:CB	2.86	0.53
1:Y:383:ASN:ND2	1:Y:385:GLY:O	2.42	0.53
1:1:233:GLN:HE21	1:1:240:ILE:HD12	1.73	0.53
1:2:233:GLN:HE21	1:2:240:ILE:HD12	1.73	0.53
1:3:581:ALA:O	1:i:485:ARG:HD3	2.09	0.53
1:a:325:VAL:HG22	1:a:334:ILE:HG12	1.91	0.53
1:b:325:VAL:HG22	1:b:334:ILE:HG12	1.91	0.53
1:b:355:VAL:H	1:b:646:GLN:HE22	1.56	0.53
1:d:735:ASN:ND2	1:e:395:TYR:OH	2.41	0.53
1:g:290:HIS:CD2	1:g:366:PRO:HB3	2.43	0.53
1:i:355:VAL:H	1:i:646:GLN:HE22	1.56	0.53
1:n:485:ARG:HD3	1:p:581:ALA:O	2.09	0.53
1:p:322:VAL:CG1	1:p:673:GLN:HE21	2.22	0.53
1:q:611:ASP:OD1	1:q:612:VAL:N	2.38	0.53
1:s:290:HIS:CD2	1:s:366:PRO:HB3	2.43	0.53
1:t:325:VAL:HG22	1:t:334:ILE:HG12	1.91	0.53
1:t:355:VAL:H	1:t:646:GLN:HE22	1.56	0.53
1:u:290:HIS:CD2	1:u:366:PRO:HB3	2.43	0.53
1:u:735:ASN:ND2	1:v:395:TYR:OH	2.41	0.53
1:w:355:VAL:H	1:w:646:GLN:HE22	1.56	0.53
1:y:290:HIS:CD2	1:y:366:PRO:HB3	2.43	0.53
1:7:383:ASN:ND2	1:7:385:GLY:O	2.42	0.53
1:B:581:ALA:O	1:J:485:ARG:HD3	2.09	0.53
1:C:290:HIS:CD2	1:C:366:PRO:HB3	2.43	0.53
1:C:325:VAL:HG22	1:C:334:ILE:HG12	1.91	0.53
1:E:485:ARG:HD3	1:F:581:ALA:O	2.09	0.53
1:H:485:ARG:HD3	1:Y:581:ALA:O	2.09	0.53
1:I:383:ASN:ND2	1:I:385:GLY:O	2.42	0.53
1:K:290:HIS:CD2	1:K:366:PRO:HB3	2.43	0.53
1:K:383:ASN:ND2	1:K:385:GLY:O	2.42	0.53
1:L:325:VAL:HG22	1:L:334:ILE:HG12	1.91	0.53
1:M:383:ASN:ND2	1:M:385:GLY:O	2.42	0.53
1:T:290:HIS:CD2	1:T:366:PRO:HB3	2.43	0.53
1:T:322:VAL:CG1	1:T:673:GLN:HE21	2.22	0.53
1:U:355:VAL:H	1:U:646:GLN:HE22	1.56	0.53
1:U:383:ASN:ND2	1:U:385:GLY:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:322:VAL:CG1	1:W:673:GLN:HE21	2.22	0.53
1:Y:290:HIS:CD2	1:Y:366:PRO:HB3	2.43	0.53
1:1:290:HIS:CD2	1:1:366:PRO:HB3	2.43	0.53
1:2:311:LYS:CE	1:2:686:GLU:CB	2.86	0.53
1:2:317:LEU:HD13	1:2:679:VAL:HG12	1.90	0.53
1:d:581:ALA:O	1:e:485:ARG:HD3	2.09	0.53
1:e:325:VAL:HG22	1:e:334:ILE:HG12	1.91	0.53
1:g:317:LEU:HD13	1:g:679:VAL:HG12	1.90	0.53
1:h:311:LYS:CE	1:h:686:GLU:CB	2.86	0.53
1:k:485:ARG:HD3	1:m:581:ALA:O	2.09	0.53
1:m:383:ASN:ND2	1:m:385:GLY:O	2.42	0.53
1:n:395:TYR:OH	1:p:735:ASN:ND2	2.42	0.53
1:s:383:ASN:ND2	1:s:385:GLY:O	2.42	0.53
1:t:383:ASN:ND2	1:t:385:GLY:O	2.42	0.53
1:t:581:ALA:O	1:u:485:ARG:HD3	2.09	0.53
1:u:317:LEU:HD13	1:u:679:VAL:HG12	1.90	0.53
1:u:325:VAL:HG22	1:u:334:ILE:HG12	1.91	0.53
1:8:383:ASN:ND2	1:8:385:GLY:O	2.42	0.53
1:B:604:GLY:HA3	1:J:634:LEU:HD11	1.91	0.53
1:C:485:ARG:HD3	1:M:581:ALA:O	2.09	0.53
1:G:543:PHE:O	1:G:559:MET:N	2.33	0.53
1:K:322:VAL:CG1	1:K:673:GLN:HE21	2.22	0.53
1:M:676:THR:HG22	1:M:677:GLY:H	1.74	0.53
1:N:383:ASN:ND2	1:N:385:GLY:O	2.42	0.53
1:O:581:ALA:O	1:g:485:ARG:HD3	2.09	0.53
1:S:322:VAL:CG1	1:S:673:GLN:HE21	2.22	0.53
1:T:311:LYS:HE2	1:T:686:GLU:HB3	1.89	0.53
1:V:634:LEU:HD11	1:X:604:GLY:HA3	1.91	0.53
1:X:322:VAL:CG1	1:X:673:GLN:HE21	2.22	0.53
1:2:676:THR:HG22	1:2:677:GLY:H	1.74	0.53
1:5:322:VAL:CG1	1:5:673:GLN:HE21	2.22	0.53
1:5:355:VAL:H	1:5:646:GLN:HE22	1.57	0.53
1:5:383:ASN:ND2	1:5:385:GLY:O	2.42	0.53
1:g:322:VAL:CG1	1:g:673:GLN:HE21	2.22	0.53
1:g:604:GLY:HA3	1:h:634:LEU:HD11	1.91	0.53
1:i:676:THR:HG22	1:i:677:GLY:H	1.74	0.53
1:l:322:VAL:CG1	1:l:673:GLN:HE21	2.22	0.53
1:m:261:SER:O	1:m:264:THR:OG1	2.26	0.53
1:m:290:HIS:CD2	1:m:366:PRO:HB3	2.43	0.53
1:n:325:VAL:HG22	1:n:334:ILE:HG12	1.91	0.53
1:o:325:VAL:HG22	1:o:334:ILE:HG12	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:383:ASN:ND2	1:p:385:GLY:O	2.42	0.53
1:q:233:GLN:HE21	1:q:240:ILE:HD12	1.73	0.53
1:q:604:GLY:HA3	1:r:634:LEU:HD11	1.91	0.53
1:t:676:THR:HG22	1:t:677:GLY:H	1.74	0.53
1:u:233:GLN:HE21	1:u:240:ILE:HD12	1.73	0.53
1:v:317:LEU:HD13	1:v:679:VAL:HG12	1.90	0.53
1:w:676:THR:HG22	1:w:677:GLY:H	1.74	0.53
1:y:322:VAL:CG1	1:y:673:GLN:HE21	2.22	0.53
1:A:355:VAL:H	1:A:646:GLN:HE22	1.56	0.53
1:B:290:HIS:CD2	1:B:366:PRO:HB3	2.43	0.53
1:B:383:ASN:ND2	1:B:385:GLY:O	2.42	0.53
1:B:634:LEU:HD11	1:L:604:GLY:HA3	1.91	0.53
1:B:735:ASN:ND2	1:J:395:TYR:OH	2.42	0.53
1:C:233:GLN:HE21	1:C:240:ILE:HD12	1.73	0.53
1:C:317:LEU:HD13	1:C:679:VAL:HG12	1.90	0.53
1:G:317:LEU:HD13	1:G:679:VAL:HG12	1.90	0.53
1:N:355:VAL:H	1:N:646:GLN:HE22	1.57	0.53
1:O:485:ARG:HD3	1:h:581:ALA:O	2.08	0.53
1:P:383:ASN:ND2	1:P:385:GLY:O	2.42	0.53
1:Q:383:ASN:ND2	1:Q:385:GLY:O	2.42	0.53
1:Q:676:THR:HG22	1:Q:677:GLY:H	1.74	0.53
1:R:325:VAL:HG22	1:R:334:ILE:HG12	1.91	0.53
1:R:676:THR:HG22	1:R:677:GLY:H	1.74	0.53
1:S:355:VAL:H	1:S:646:GLN:HE22	1.56	0.53
1:T:355:VAL:H	1:T:646:GLN:HE22	1.57	0.53
1:V:485:ARG:HD3	1:X:581:ALA:O	2.09	0.53
1:X:317:LEU:HD13	1:X:679:VAL:HG12	1.90	0.53
1:Y:261:SER:O	1:Y:264:THR:OG1	2.26	0.53
1:a:383:ASN:ND2	1:a:385:GLY:O	2.42	0.53
1:b:383:ASN:ND2	1:b:385:GLY:O	2.42	0.53
1:d:322:VAL:CG1	1:d:673:GLN:HE21	2.22	0.53
1:i:317:LEU:HD13	1:i:679:VAL:HG12	1.90	0.53
1:k:634:LEU:HD11	1:m:604:GLY:HA3	1.91	0.53
1:n:634:LEU:HD11	1:p:604:GLY:HA3	1.91	0.53
1:o:604:GLY:HA3	1:p:634:LEU:HD11	1.91	0.53
1:q:355:VAL:H	1:q:646:GLN:HE22	1.56	0.53
1:u:604:GLY:HA3	1:v:634:LEU:HD11	1.91	0.53
1:v:676:THR:HG22	1:v:677:GLY:H	1.74	0.53
1:w:317:LEU:HD13	1:w:679:VAL:HG12	1.90	0.53
1:z:233:GLN:HE21	1:z:240:ILE:HD12	1.73	0.53
1:z:290:HIS:CD2	1:z:366:PRO:HB3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:247:TRP:CZ2	1:B:317:LEU:HD11	2.44	0.52
1:C:604:GLY:HA3	1:2:634:LEU:HD11	1.91	0.52
1:D:383:ASN:ND2	1:D:385:GLY:O	2.42	0.52
1:F:322:VAL:CG1	1:F:673:GLN:HE21	2.22	0.52
1:H:581:ALA:O	1:W:485:ARG:HD3	2.09	0.52
1:H:634:LEU:HD11	1:Y:604:GLY:HA3	1.91	0.52
1:J:233:GLN:HE21	1:J:240:ILE:HD12	1.73	0.52
1:J:247:TRP:CZ2	1:J:317:LEU:HD11	2.45	0.52
1:J:325:VAL:HG22	1:J:334:ILE:HG12	1.91	0.52
1:K:325:VAL:HG22	1:K:334:ILE:HG12	1.91	0.52
1:M:290:HIS:CD2	1:M:366:PRO:HB3	2.43	0.52
1:N:322:VAL:CG1	1:N:673:GLN:HE21	2.22	0.52
1:N:604:GLY:HA3	1:P:634:LEU:HD11	1.91	0.52
1:P:676:THR:HG22	1:P:677:GLY:H	1.74	0.52
1:R:322:VAL:CG1	1:R:673:GLN:HE21	2.22	0.52
1:T:233:GLN:HE21	1:T:240:ILE:HD12	1.73	0.52
1:U:322:VAL:CG1	1:U:673:GLN:HE21	2.22	0.52
1:V:604:GLY:HA3	1:4:634:LEU:HD11	1.91	0.52
1:W:676:THR:HG22	1:W:677:GLY:H	1.74	0.52
1:X:355:VAL:H	1:X:646:GLN:HE22	1.56	0.52
1:X:395:TYR:OH	1:4:735:ASN:ND2	2.42	0.52
1:Z:261:SER:O	1:Z:264:THR:OG1	2.26	0.52
1:Z:383:ASN:ND2	1:Z:385:GLY:O	2.42	0.52
1:5:581:ALA:O	1:b:485:ARG:HD3	2.09	0.52
1:5:604:GLY:HA3	1:b:634:LEU:HD11	1.91	0.52
1:b:676:THR:HG22	1:b:677:GLY:H	1.74	0.52
1:c:676:THR:HG22	1:c:677:GLY:H	1.74	0.52
1:f:322:VAL:CG1	1:f:673:GLN:HE21	2.22	0.52
1:f:325:VAL:HG22	1:f:334:ILE:HG12	1.91	0.52
1:i:325:VAL:HG22	1:i:334:ILE:HG12	1.91	0.52
1:i:581:ALA:O	1:j:485:ARG:HD3	2.09	0.52
1:i:611:ASP:OD1	1:i:612:VAL:N	2.38	0.52
1:k:676:THR:HG22	1:k:677:GLY:H	1.74	0.52
1:l:676:THR:HG22	1:l:677:GLY:H	1.74	0.52
1:n:247:TRP:CZ2	1:n:317:LEU:HD11	2.45	0.52
1:p:290:HIS:CD2	1:p:366:PRO:HB3	2.43	0.52
1:r:317:LEU:HD13	1:r:679:VAL:HG12	1.90	0.52
1:s:311:LYS:CE	1:s:686:GLU:CB	2.86	0.52
1:u:676:THR:HG22	1:u:677:GLY:H	1.74	0.52
1:w:325:VAL:HG22	1:w:334:ILE:HG12	1.91	0.52
1:w:634:LEU:HD11	1:x:604:GLY:HA3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:604:GLY:HA3	1:G:634:LEU:HD11	1.92	0.52
1:C:676:THR:HG22	1:C:677:GLY:H	1.74	0.52
1:D:247:TRP:CZ2	1:D:317:LEU:HD11	2.44	0.52
1:E:604:GLY:HA3	1:Q:634:LEU:HD11	1.92	0.52
1:F:355:VAL:H	1:F:646:GLN:HE22	1.56	0.52
1:H:322:VAL:CG1	1:H:673:GLN:HE21	2.22	0.52
1:I:247:TRP:CZ2	1:I:317:LEU:HD11	2.44	0.52
1:J:322:VAL:CG1	1:J:673:GLN:HE21	2.22	0.52
1:J:383:ASN:ND2	1:J:385:GLY:O	2.42	0.52
1:J:543:PHE:O	1:J:559:MET:N	2.33	0.52
1:L:383:ASN:ND2	1:L:385:GLY:O	2.42	0.52
1:N:581:ALA:O	1:P:485:ARG:HD3	2.09	0.52
1:P:247:TRP:CZ2	1:P:317:LEU:HD11	2.45	0.52
1:S:233:GLN:HE21	1:S:240:ILE:HD12	1.73	0.52
1:V:676:THR:HG22	1:V:677:GLY:H	1.74	0.52
1:Z:485:ARG:HD3	1:w:581:ALA:O	2.09	0.52
1:1:322:VAL:CG1	1:1:673:GLN:HE21	2.22	0.52
1:1:325:VAL:HG22	1:1:334:ILE:HG12	1.91	0.52
1:3:604:GLY:HA3	1:i:634:LEU:HD11	1.92	0.52
1:a:247:TRP:CZ2	1:a:317:LEU:HD11	2.44	0.52
1:c:383:ASN:ND2	1:c:385:GLY:O	2.42	0.52
1:c:634:LEU:HD11	1:e:604:GLY:HA3	1.92	0.52
1:f:383:ASN:ND2	1:f:385:GLY:O	2.42	0.52
1:h:676:THR:HG22	1:h:677:GLY:H	1.74	0.52
1:j:383:ASN:ND2	1:j:385:GLY:O	2.42	0.52
1:k:322:VAL:CG1	1:k:673:GLN:HE21	2.22	0.52
1:k:581:ALA:O	1:l:485:ARG:HD3	2.09	0.52
1:n:233:GLN:HE21	1:n:240:ILE:HD12	1.73	0.52
1:o:383:ASN:ND2	1:o:385:GLY:O	2.42	0.52
1:p:247:TRP:CZ2	1:p:317:LEU:HD11	2.44	0.52
1:p:676:THR:HG22	1:p:677:GLY:H	1.74	0.52
1:t:290:HIS:CD2	1:t:366:PRO:HB3	2.43	0.52
1:v:247:TRP:CZ2	1:v:317:LEU:HD11	2.45	0.52
1:v:325:VAL:HG22	1:v:334:ILE:HG12	1.91	0.52
1:v:383:ASN:ND2	1:v:385:GLY:O	2.42	0.52
1:y:325:VAL:HG22	1:y:334:ILE:HG12	1.91	0.52
1:z:322:VAL:CG1	1:z:673:GLN:HE21	2.22	0.52
1:8:247:TRP:CZ2	1:8:317:LEU:HD11	2.45	0.52
1:B:485:ARG:HD3	1:L:581:ALA:O	2.09	0.52
1:B:676:THR:HG22	1:B:677:GLY:H	1.74	0.52
1:C:581:ALA:O	1:2:485:ARG:HD3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:322:VAL:CG1	1:E:673:GLN:HE21	2.22	0.52
1:E:543:PHE:O	1:E:559:MET:N	2.33	0.52
1:E:676:THR:HG22	1:E:677:GLY:H	1.74	0.52
1:F:380:LEU:HD21	1:Q:438:PRO:HB3	1.92	0.52
1:F:634:LEU:HD11	1:Q:604:GLY:HA3	1.91	0.52
1:H:543:PHE:O	1:H:559:MET:N	2.33	0.52
1:H:676:THR:HG22	1:H:677:GLY:H	1.74	0.52
1:O:438:PRO:HB3	1:g:380:LEU:HD21	1.91	0.52
1:R:383:ASN:ND2	1:R:385:GLY:O	2.42	0.52
1:S:676:THR:HG22	1:S:677:GLY:H	1.74	0.52
1:V:317:LEU:HD13	1:V:679:VAL:HG12	1.90	0.52
1:Y:676:THR:HG22	1:Y:677:GLY:H	1.74	0.52
1:2:247:TRP:CZ2	1:2:317:LEU:HD11	2.45	0.52
1:5:485:ARG:HD3	1:a:581:ALA:O	2.09	0.52
1:b:247:TRP:CZ2	1:b:317:LEU:HD11	2.45	0.52
1:c:438:PRO:HB3	1:d:380:LEU:HD21	1.92	0.52
1:d:247:TRP:CZ2	1:d:317:LEU:HD11	2.45	0.52
1:d:355:VAL:H	1:d:646:GLN:HE22	1.56	0.52
1:e:247:TRP:CZ2	1:e:317:LEU:HD11	2.44	0.52
1:e:383:ASN:ND2	1:e:385:GLY:O	2.42	0.52
1:e:676:THR:HG22	1:e:677:GLY:H	1.74	0.52
1:f:676:THR:HG22	1:f:677:GLY:H	1.75	0.52
1:g:581:ALA:O	1:h:485:ARG:HD3	2.09	0.52
1:h:317:LEU:HD13	1:h:679:VAL:HG12	1.90	0.52
1:m:676:THR:HG22	1:m:677:GLY:H	1.74	0.52
1:n:322:VAL:CG1	1:n:673:GLN:HE21	2.22	0.52
1:n:383:ASN:ND2	1:n:385:GLY:O	2.42	0.52
1:s:247:TRP:CZ2	1:s:317:LEU:HD11	2.44	0.52
1:u:383:ASN:ND2	1:u:385:GLY:O	2.42	0.52
1:y:604:GLY:HA3	1:z:634:LEU:HD11	1.91	0.52
1:z:325:VAL:HG22	1:z:334:ILE:HG12	1.91	0.52
1:z:581:ALA:O	1:7:485:ARG:HD3	2.09	0.52
1:7:247:TRP:CZ2	1:7:317:LEU:HD11	2.44	0.52
1:B:325:VAL:HG22	1:B:334:ILE:HG12	1.91	0.52
1:C:247:TRP:CZ2	1:C:317:LEU:HD11	2.44	0.52
1:C:383:ASN:ND2	1:C:385:GLY:O	2.42	0.52
1:D:581:ALA:O	1:N:485:ARG:HD3	2.09	0.52
1:E:247:TRP:CZ2	1:E:317:LEU:HD11	2.44	0.52
1:E:383:ASN:ND2	1:E:385:GLY:O	2.42	0.52
1:F:247:TRP:CZ2	1:F:317:LEU:HD11	2.45	0.52
1:I:676:THR:HG22	1:I:677:GLY:H	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:735:ASN:ND2	1:g:395:TYR:OH	2.42	0.52
1:T:325:VAL:HG22	1:T:334:ILE:HG12	1.91	0.52
1:T:380:LEU:HD21	1:f:438:PRO:HB3	1.92	0.52
1:T:676:THR:HG22	1:T:677:GLY:H	1.74	0.52
1:U:247:TRP:CZ2	1:U:317:LEU:HD11	2.44	0.52
1:U:317:LEU:HD13	1:U:679:VAL:HG12	1.90	0.52
1:U:325:VAL:HG22	1:U:334:ILE:HG12	1.91	0.52
1:Y:355:VAL:H	1:Y:646:GLN:HE22	1.56	0.52
1:Z:395:TYR:OH	1:w:735:ASN:ND2	2.41	0.52
1:Z:676:THR:HG22	1:Z:677:GLY:H	1.74	0.52
1:2:383:ASN:ND2	1:2:385:GLY:O	2.42	0.52
1:3:233:GLN:HE21	1:3:240:ILE:HD12	1.73	0.52
1:4:322:VAL:CG1	1:4:673:GLN:HE21	2.22	0.52
1:a:700:GLN:HB2	1:t:702:THR:HG22	1.91	0.52
1:c:604:GLY:HA3	1:d:634:LEU:HD11	1.91	0.52
1:e:322:VAL:CG1	1:e:673:GLN:HE21	2.22	0.52
1:j:676:THR:HG22	1:j:677:GLY:H	1.74	0.52
1:o:247:TRP:CZ2	1:o:317:LEU:HD11	2.44	0.52
1:o:581:ALA:O	1:p:485:ARG:HD3	2.09	0.52
1:o:676:THR:HG22	1:o:677:GLY:H	1.74	0.52
1:r:543:PHE:O	1:r:559:MET:N	2.33	0.52
1:u:581:ALA:O	1:v:485:ARG:HD3	2.09	0.52
1:w:321:GLN:HE22	1:8:654:VAL:HG22	1.74	0.52
1:w:611:ASP:OD1	1:w:612:VAL:N	2.38	0.52
1:x:247:TRP:CZ2	1:x:317:LEU:HD11	2.44	0.52
1:x:322:VAL:CG1	1:x:673:GLN:HE21	2.22	0.52
1:z:247:TRP:CZ2	1:z:317:LEU:HD11	2.45	0.52
1:z:604:GLY:HA3	1:7:634:LEU:HD11	1.92	0.52
1:8:322:VAL:CG1	1:8:673:GLN:HE21	2.22	0.52
1:A:247:TRP:CZ2	1:A:317:LEU:HD11	2.45	0.52
1:B:438:PRO:HB3	1:J:380:LEU:HD21	1.92	0.52
1:C:438:PRO:HB3	1:2:380:LEU:HD21	1.92	0.52
1:D:700:GLN:HB2	1:M:702:THR:HG22	1.91	0.52
1:F:311:LYS:HE2	1:F:686:GLU:HB3	1.89	0.52
1:G:383:ASN:ND2	1:G:385:GLY:O	2.42	0.52
1:K:355:VAL:H	1:K:646:GLN:HE22	1.56	0.52
1:L:247:TRP:CZ2	1:L:317:LEU:HD11	2.45	0.52
1:O:322:VAL:CG1	1:O:673:GLN:HE21	2.22	0.52
1:O:634:LEU:HD11	1:h:604:GLY:HA3	1.92	0.52
1:R:247:TRP:CZ2	1:R:317:LEU:HD11	2.45	0.52
1:U:233:GLN:HE21	1:U:240:ILE:HD12	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:247:TRP:CZ2	1:V:317:LEU:HD11	2.44	0.52
1:V:735:ASN:ND2	1:4:395:TYR:OH	2.41	0.52
1:Z:380:LEU:HD21	1:w:438:PRO:HB3	1.91	0.52
1:1:247:TRP:CZ2	1:1:317:LEU:HD11	2.45	0.52
1:1:383:ASN:ND2	1:1:385:GLY:O	2.42	0.52
1:2:325:VAL:HG22	1:2:334:ILE:HG12	1.91	0.52
1:3:322:VAL:CG1	1:3:673:GLN:HE21	2.22	0.52
1:3:355:VAL:H	1:3:646:GLN:HE22	1.56	0.52
1:c:247:TRP:CZ2	1:c:317:LEU:HD11	2.45	0.52
1:d:311:LYS:HE2	1:d:686:GLU:HB3	1.89	0.52
1:i:438:PRO:HB3	1:j:380:LEU:HD21	1.92	0.52
1:i:735:ASN:ND2	1:j:395:TYR:OH	2.42	0.52
1:k:438:PRO:HB3	1:l:380:LEU:HD21	1.92	0.52
1:n:380:LEU:HD21	1:p:438:PRO:HB3	1.92	0.52
1:p:325:VAL:HG22	1:p:334:ILE:HG12	1.91	0.52
1:s:676:THR:HG22	1:s:677:GLY:H	1.74	0.52
1:u:247:TRP:CZ2	1:u:317:LEU:HD11	2.44	0.52
1:w:322:VAL:CG1	1:w:673:GLN:HE21	2.22	0.52
1:x:325:VAL:HG22	1:x:334:ILE:HG12	1.91	0.52
1:7:322:VAL:CG1	1:7:673:GLN:HE21	2.22	0.52
1:A:380:LEU:HD21	1:I:438:PRO:HB3	1.92	0.52
1:B:311:LYS:CE	1:B:686:GLU:CB	2.86	0.52
1:G:233:GLN:HE21	1:G:240:ILE:HD12	1.73	0.52
1:H:438:PRO:HB3	1:W:380:LEU:HD21	1.92	0.52
1:H:735:ASN:ND2	1:W:395:TYR:OH	2.42	0.52
1:K:604:GLY:HA3	1:1:634:LEU:HD11	1.92	0.52
1:L:676:THR:HG22	1:L:677:GLY:H	1.74	0.52
1:O:355:VAL:H	1:O:646:GLN:HE22	1.56	0.52
1:O:383:ASN:ND2	1:O:385:GLY:O	2.42	0.52
1:Q:247:TRP:CZ2	1:Q:317:LEU:HD11	2.44	0.52
1:Q:322:VAL:CG1	1:Q:673:GLN:HE21	2.22	0.52
1:R:395:TYR:OH	1:U:735:ASN:ND2	2.42	0.52
1:S:703:SER:HB2	1:T:699:ILE:HD13	1.91	0.52
1:T:247:TRP:CZ2	1:T:317:LEU:HD11	2.44	0.52
1:U:676:THR:HG22	1:U:677:GLY:H	1.74	0.52
1:Z:247:TRP:CZ2	1:Z:317:LEU:HD11	2.45	0.52
1:3:247:TRP:CZ2	1:3:317:LEU:HD11	2.45	0.52
1:3:325:VAL:HG22	1:3:334:ILE:HG12	1.91	0.52
1:f:247:TRP:CZ2	1:f:317:LEU:HD11	2.45	0.52
1:g:383:ASN:ND2	1:g:385:GLY:O	2.42	0.52
1:i:247:TRP:CZ2	1:i:317:LEU:HD11	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:355:VAL:H	1:l:646:GLN:HE22	1.56	0.52
1:m:247:TRP:CZ2	1:m:317:LEU:HD11	2.45	0.52
1:q:247:TRP:CZ2	1:q:317:LEU:HD11	2.45	0.52
1:q:380:LEU:HD21	1:s:438:PRO:HB3	1.92	0.52
1:r:233:GLN:HE21	1:r:240:ILE:HD12	1.73	0.52
1:r:383:ASN:ND2	1:r:385:GLY:O	2.42	0.52
1:r:438:PRO:HB3	1:s:380:LEU:HD21	1.92	0.52
1:s:322:VAL:CG1	1:s:673:GLN:HE21	2.22	0.52
1:u:438:PRO:HB3	1:v:380:LEU:HD21	1.92	0.52
1:w:247:TRP:CZ2	1:w:317:LEU:HD11	2.45	0.52
1:x:233:GLN:HE21	1:x:240:ILE:HD12	1.73	0.52
1:y:355:VAL:H	1:y:646:GLN:HE22	1.56	0.52
1:y:438:PRO:HB3	1:z:380:LEU:HD21	1.92	0.52
1:y:485:ARG:HD3	1:7:581:ALA:O	2.09	0.52
1:y:662:PHE:HA	1:8:373:MET:HE3	1.91	0.52
1:z:383:ASN:ND2	1:z:385:GLY:O	2.42	0.52
1:8:311:LYS:CE	1:8:686:GLU:CB	2.86	0.52
1:A:311:LYS:HE2	1:A:686:GLU:HB3	1.89	0.52
1:A:383:ASN:ND2	1:A:385:GLY:O	2.42	0.52
1:F:325:VAL:HG22	1:F:334:ILE:HG12	1.91	0.52
1:F:383:ASN:ND2	1:F:385:GLY:O	2.42	0.52
1:G:247:TRP:CZ2	1:G:317:LEU:HD11	2.45	0.52
1:G:438:PRO:HB3	1:I:380:LEU:HD21	1.92	0.52
1:G:676:THR:HG22	1:G:677:GLY:H	1.74	0.52
1:H:383:ASN:ND2	1:H:385:GLY:O	2.42	0.52
1:I:322:VAL:CG1	1:I:673:GLN:HE21	2.22	0.52
1:M:322:VAL:CG1	1:M:673:GLN:HE21	2.22	0.52
1:O:247:TRP:CZ2	1:O:317:LEU:HD11	2.45	0.52
1:S:247:TRP:CZ2	1:S:317:LEU:HD11	2.45	0.52
1:S:325:VAL:HG22	1:S:334:ILE:HG12	1.91	0.52
1:S:581:ALA:O	1:U:485:ARG:HD3	2.10	0.52
1:V:581:ALA:O	1:4:485:ARG:HD3	2.09	0.52
1:X:380:LEU:HD21	1:4:438:PRO:HB3	1.92	0.52
1:X:383:ASN:ND2	1:X:385:GLY:O	2.42	0.52
1:Y:247:TRP:CZ2	1:Y:317:LEU:HD11	2.45	0.52
1:Y:325:VAL:HG22	1:Y:334:ILE:HG12	1.91	0.52
1:4:247:TRP:CZ2	1:4:317:LEU:HD11	2.44	0.52
1:a:355:VAL:H	1:a:646:GLN:HE22	1.56	0.52
1:a:676:THR:HG22	1:a:677:GLY:H	1.74	0.52
1:c:322:VAL:CG1	1:c:673:GLN:HE21	2.22	0.52
1:d:325:VAL:HG22	1:d:334:ILE:HG12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:611:ASP:OD1	1:e:612:VAL:N	2.38	0.52
1:h:247:TRP:CZ2	1:h:317:LEU:HD11	2.45	0.52
1:i:322:VAL:CG1	1:i:673:GLN:HE21	2.22	0.52
1:j:247:TRP:CZ2	1:j:317:LEU:HD11	2.45	0.52
1:k:247:TRP:CZ2	1:k:317:LEU:HD11	2.45	0.52
1:k:543:PHE:O	1:k:559:MET:N	2.33	0.52
1:k:735:ASN:ND2	1:l:395:TYR:OH	2.41	0.52
1:l:247:TRP:CZ2	1:l:317:LEU:HD11	2.44	0.52
1:m:355:VAL:H	1:m:646:GLN:HE22	1.56	0.52
1:n:543:PHE:O	1:n:559:MET:N	2.33	0.52
1:o:233:GLN:HE21	1:o:240:ILE:HD12	1.73	0.52
1:p:311:LYS:CE	1:p:686:GLU:CB	2.86	0.52
1:q:383:ASN:ND2	1:q:385:GLY:O	2.42	0.52
1:r:247:TRP:CZ2	1:r:317:LEU:HD11	2.44	0.52
1:w:383:ASN:ND2	1:w:385:GLY:O	2.42	0.52
1:z:676:THR:HG22	1:z:677:GLY:H	1.74	0.52
1:A:438:PRO:HB3	1:G:380:LEU:HD21	1.92	0.52
1:A:703:SER:HB2	1:F:699:ILE:HD13	1.92	0.52
1:B:355:VAL:H	1:B:646:GLN:HE22	1.56	0.52
1:D:355:VAL:H	1:D:646:GLN:HE22	1.56	0.52
1:D:676:THR:HG22	1:D:677:GLY:H	1.74	0.52
1:E:735:ASN:ND2	1:Q:395:TYR:OH	2.41	0.52
1:G:322:VAL:CG1	1:G:673:GLN:HE21	2.22	0.52
1:H:247:TRP:CZ2	1:H:317:LEU:HD11	2.44	0.52
1:K:247:TRP:CZ2	1:K:317:LEU:HD11	2.45	0.52
1:R:735:ASN:ND2	1:S:395:TYR:OH	2.42	0.52
1:W:247:TRP:CZ2	1:W:317:LEU:HD11	2.44	0.52
1:1:676:THR:HG22	1:1:677:GLY:H	1.74	0.52
1:3:634:LEU:HD11	1:j:604:GLY:HA3	1.91	0.52
1:4:355:VAL:H	1:4:646:GLN:HE22	1.56	0.52
1:4:383:ASN:ND2	1:4:385:GLY:O	2.42	0.52
1:d:383:ASN:ND2	1:d:385:GLY:O	2.42	0.52
1:f:355:VAL:H	1:f:646:GLN:HE22	1.56	0.52
1:i:261:SER:O	1:i:264:THR:OG1	2.26	0.52
1:l:438:PRO:HB3	1:m:380:LEU:HD21	1.92	0.52
1:q:438:PRO:HB3	1:r:380:LEU:HD21	1.92	0.52
1:t:322:VAL:CG1	1:t:673:GLN:HE21	2.22	0.52
1:x:355:VAL:H	1:x:646:GLN:HE22	1.56	0.52
1:7:311:LYS:CE	1:7:686:GLU:CB	2.86	0.52
1:D:634:LEU:HD11	1:P:604:GLY:HA3	1.92	0.52
1:D:702:THR:HG22	1:M:700:GLN:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:703:SER:HB2	1:H:699:ILE:HD13	1.92	0.52
1:H:325:VAL:HG22	1:H:334:ILE:HG12	1.91	0.52
1:I:355:VAL:H	1:I:646:GLN:HE22	1.56	0.52
1:N:438:PRO:HB3	1:P:380:LEU:HD21	1.92	0.52
1:P:322:VAL:CG1	1:P:673:GLN:HE21	2.22	0.52
1:R:355:VAL:H	1:R:646:GLN:HE22	1.56	0.52
1:R:634:LEU:HD11	1:U:604:GLY:HA3	1.91	0.52
1:V:383:ASN:ND2	1:V:385:GLY:O	2.42	0.52
1:W:355:VAL:H	1:W:646:GLN:HE22	1.56	0.52
1:W:438:PRO:HB3	1:Y:380:LEU:HD21	1.92	0.52
1:5:438:PRO:HB3	1:b:380:LEU:HD21	1.92	0.52
1:a:395:TYR:OH	1:b:735:ASN:ND2	2.42	0.52
1:a:634:LEU:HD11	1:b:604:GLY:HA3	1.92	0.52
1:a:702:THR:HG22	1:t:700:GLN:HB2	1.91	0.52
1:b:322:VAL:CG1	1:b:673:GLN:HE21	2.22	0.52
1:c:395:TYR:OH	1:e:735:ASN:ND2	2.41	0.52
1:i:383:ASN:ND2	1:i:385:GLY:O	2.42	0.52
1:i:604:GLY:HA3	1:j:634:LEU:HD11	1.91	0.52
1:k:383:ASN:ND2	1:k:385:GLY:O	2.42	0.52
1:k:699:ILE:HD13	1:r:703:SER:HB2	1.92	0.52
1:m:325:VAL:HG22	1:m:334:ILE:HG12	1.91	0.52
1:o:699:ILE:HD13	1:u:703:SER:HB2	1.92	0.52
1:q:311:LYS:HE2	1:q:686:GLU:HB3	1.89	0.52
1:q:735:ASN:ND2	1:r:395:TYR:OH	2.42	0.52
1:r:322:VAL:CG1	1:r:673:GLN:HE21	2.22	0.52
1:r:676:THR:HG22	1:r:677:GLY:H	1.74	0.52
1:w:261:SER:O	1:w:264:THR:OG1	2.26	0.52
1:A:735:ASN:ND2	1:G:395:TYR:OH	2.42	0.52
1:B:699:ILE:HD13	1:I:703:SER:HB2	1.92	0.52
1:B:703:SER:HB2	1:I:699:ILE:HD13	1.92	0.52
1:C:703:SER:HB2	1:L:699:ILE:HD13	1.92	0.52
1:D:395:TYR:OH	1:P:735:ASN:ND2	2.42	0.52
1:L:233:GLN:HE21	1:L:240:ILE:HD12	1.73	0.52
1:L:322:VAL:CG1	1:L:673:GLN:HE21	2.22	0.52
1:N:247:TRP:CZ2	1:N:317:LEU:HD11	2.44	0.52
1:W:604:GLY:HA3	1:Y:634:LEU:HD11	1.92	0.52
1:Y:322:VAL:CG1	1:Y:673:GLN:HE21	2.22	0.52
1:Z:325:VAL:HG22	1:Z:334:ILE:HG12	1.91	0.52
1:Z:581:ALA:O	1:x:485:ARG:HD3	2.09	0.52
1:Z:604:GLY:HA3	1:x:634:LEU:HD11	1.91	0.52
1:3:383:ASN:ND2	1:3:385:GLY:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:699:ILE:HD13	1:q:703:SER:HB2	1.92	0.52
1:h:383:ASN:ND2	1:h:385:GLY:O	2.42	0.52
1:k:325:VAL:HG22	1:k:334:ILE:HG12	1.91	0.52
1:l:604:GLY:HA3	1:m:634:LEU:HD11	1.92	0.52
1:o:703:SER:HB2	1:u:699:ILE:HD13	1.92	0.52
1:p:355:VAL:H	1:p:646:GLN:HE22	1.56	0.52
1:q:395:TYR:OH	1:s:735:ASN:ND2	2.42	0.52
1:q:485:ARG:HD3	1:s:581:ALA:O	2.09	0.52
1:y:247:TRP:CZ2	1:y:317:LEU:HD11	2.45	0.52
1:y:543:PHE:O	1:y:559:MET:N	2.33	0.52
1:7:703:SER:HB2	1:8:699:ILE:HD13	1.92	0.52
1:A:395:TYR:OH	1:I:735:ASN:ND2	2.42	0.51
1:C:699:ILE:HD13	1:L:703:SER:HB2	1.92	0.51
1:D:462:LYS:HB3	1:N:552:ASN:HA	1.92	0.51
1:E:311:LYS:CE	1:E:686:GLU:CB	2.86	0.51
1:E:611:ASP:OD1	1:E:612:VAL:N	2.38	0.51
1:G:699:ILE:HD13	1:H:703:SER:HB2	1.92	0.51
1:I:325:VAL:HG22	1:I:334:ILE:HG12	1.91	0.51
1:O:395:TYR:OH	1:h:735:ASN:ND2	2.42	0.51
1:Q:325:VAL:HG22	1:Q:334:ILE:HG12	1.91	0.51
1:R:485:ARG:HD3	1:U:581:ALA:O	2.09	0.51
1:U:703:SER:HB2	1:V:699:ILE:HD13	1.92	0.51
1:Z:634:LEU:HD11	1:w:604:GLY:HA3	1.91	0.51
1:2:322:VAL:CG1	1:2:673:GLN:HE21	2.22	0.51
1:2:699:ILE:HD13	1:3:703:SER:HB2	1.93	0.51
1:4:676:THR:HG22	1:4:677:GLY:H	1.74	0.51
1:5:247:TRP:CZ2	1:5:317:LEU:HD11	2.44	0.51
1:e:311:LYS:HE2	1:e:686:GLU:HB3	1.89	0.51
1:e:311:LYS:CE	1:e:686:GLU:CB	2.86	0.51
1:j:325:VAL:HG22	1:j:334:ILE:HG12	1.91	0.51
1:k:703:SER:HB2	1:r:699:ILE:HD13	1.92	0.51
1:n:438:PRO:HB3	1:o:380:LEU:HD21	1.92	0.51
1:o:322:VAL:CG1	1:o:673:GLN:HE21	2.22	0.51
1:p:699:ILE:HD13	1:s:703:SER:HB2	1.92	0.51
1:p:703:SER:HB2	1:s:699:ILE:HD13	1.92	0.51
1:q:322:VAL:CG1	1:q:673:GLN:HE21	2.22	0.51
1:r:355:VAL:H	1:r:646:GLN:HE22	1.56	0.51
1:s:355:VAL:H	1:s:646:GLN:HE22	1.56	0.51
1:v:699:ILE:HD13	1:x:703:SER:HB2	1.93	0.51
1:x:383:ASN:ND2	1:x:385:GLY:O	2.42	0.51
1:y:384:ASP:OD2	1:8:707:LYS:NZ	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:634:LEU:HD11	1:7:604:GLY:HA3	1.91	0.51
1:A:485:ARG:HD3	1:I:581:ALA:O	2.09	0.51
1:G:325:VAL:HG22	1:G:334:ILE:HG12	1.91	0.51
1:G:355:VAL:H	1:G:646:GLN:HE22	1.56	0.51
1:G:581:ALA:O	1:I:485:ARG:HD3	2.09	0.51
1:H:380:LEU:HD21	1:Y:438:PRO:HB3	1.92	0.51
1:J:438:PRO:HB3	1:L:380:LEU:HD21	1.92	0.51
1:J:604:GLY:HA3	1:L:634:LEU:HD11	1.91	0.51
1:N:325:VAL:HG22	1:N:334:ILE:HG12	1.91	0.51
1:O:380:LEU:HD21	1:h:438:PRO:HB3	1.92	0.51
1:O:676:THR:HG22	1:O:677:GLY:H	1.74	0.51
1:V:438:PRO:HB3	1:4:380:LEU:HD21	1.92	0.51
1:3:485:ARG:HD3	1:j:581:ALA:O	2.09	0.51
1:4:703:SER:HB2	1:5:699:ILE:HD13	1.92	0.51
1:f:311:LYS:CE	1:f:686:GLU:CB	2.86	0.51
1:g:247:TRP:CZ2	1:g:317:LEU:HD11	2.44	0.51
1:m:322:VAL:CG1	1:m:673:GLN:HE21	2.22	0.51
1:n:604:GLY:HA3	1:o:634:LEU:HD11	1.91	0.51
1:n:676:THR:HG22	1:n:677:GLY:H	1.74	0.51
1:z:261:SER:O	1:z:264:THR:OG1	2.26	0.51
1:A:699:ILE:HD13	1:F:703:SER:HB2	1.92	0.51
1:K:543:PHE:O	1:K:559:MET:N	2.33	0.51
1:N:699:ILE:HD13	1:O:703:SER:HB2	1.92	0.51
1:O:325:VAL:HG22	1:O:334:ILE:HG12	1.91	0.51
1:Q:355:VAL:H	1:Q:646:GLN:HE22	1.56	0.51
1:V:380:LEU:HD21	1:X:438:PRO:HB3	1.92	0.51
1:X:247:TRP:CZ2	1:X:317:LEU:HD11	2.44	0.51
1:1:703:SER:HB2	1:w:699:ILE:HD13	1.93	0.51
1:5:552:ASN:HA	1:a:462:LYS:HB3	1.92	0.51
1:c:325:VAL:HG22	1:c:334:ILE:HG12	1.91	0.51
1:c:485:ARG:HD3	1:e:581:ALA:O	2.09	0.51
1:d:703:SER:HB2	1:q:699:ILE:HD13	1.92	0.51
1:i:699:ILE:HD13	1:z:703:SER:HB2	1.93	0.51
1:k:380:LEU:HD21	1:m:438:PRO:HB3	1.92	0.51
1:q:676:THR:HG22	1:q:677:GLY:H	1.74	0.51
1:s:261:SER:O	1:s:264:THR:OG1	2.26	0.51
1:s:325:VAL:HG22	1:s:334:ILE:HG12	1.91	0.51
1:t:543:PHE:O	1:t:559:MET:N	2.33	0.51
1:y:380:LEU:HD21	1:7:438:PRO:HB3	1.92	0.51
1:y:735:ASN:ND2	1:z:395:TYR:OH	2.41	0.51
1:A:581:ALA:O	1:G:485:ARG:HD3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:676:THR:HG22	1:A:677:GLY:H	1.74	0.51
1:C:658:PRO:HG2	1:D:250:PRO:HB3	1.93	0.51
1:E:581:ALA:O	1:Q:485:ARG:HD3	2.09	0.51
1:G:604:GLY:HA3	1:I:634:LEU:HD11	1.91	0.51
1:I:261:SER:O	1:I:264:THR:OG1	2.26	0.51
1:J:676:THR:HG22	1:J:677:GLY:H	1.74	0.51
1:J:700:GLN:HB2	1:K:702:THR:HG22	1.93	0.51
1:K:438:PRO:HB3	1:1:380:LEU:HD21	1.92	0.51
1:R:311:LYS:CE	1:R:686:GLU:CB	2.86	0.51
1:S:261:SER:O	1:S:264:THR:OG1	2.26	0.51
1:S:604:GLY:HA3	1:U:634:LEU:HD11	1.92	0.51
1:S:699:ILE:HD13	1:T:703:SER:HB2	1.92	0.51
1:T:634:LEU:HD11	1:f:604:GLY:HA3	1.92	0.51
1:U:261:SER:O	1:U:264:THR:OG1	2.26	0.51
1:Y:703:SER:HB2	1:Z:699:ILE:HD13	1.92	0.51
1:Z:355:VAL:H	1:Z:646:GLN:HE22	1.56	0.51
1:Z:438:PRO:HB3	1:x:380:LEU:HD21	1.92	0.51
1:1:261:SER:O	1:1:264:THR:OG1	2.26	0.51
1:1:355:VAL:H	1:1:646:GLN:HE22	1.56	0.51
1:2:261:SER:O	1:2:264:THR:OG1	2.26	0.51
1:4:325:VAL:HG22	1:4:334:ILE:HG12	1.91	0.51
1:5:325:VAL:HG22	1:5:334:ILE:HG12	1.91	0.51
1:5:658:PRO:HG2	1:t:250:PRO:HB3	1.93	0.51
1:a:250:PRO:HB3	1:u:658:PRO:HG2	1.93	0.51
1:j:699:ILE:HD13	1:m:703:SER:HB2	1.92	0.51
1:k:604:GLY:HA3	1:l:634:LEU:HD11	1.91	0.51
1:l:383:ASN:ND2	1:l:385:GLY:O	2.42	0.51
1:r:325:VAL:HG22	1:r:334:ILE:HG12	1.91	0.51
1:r:581:ALA:O	1:s:485:ARG:HD3	2.09	0.51
1:t:247:TRP:CZ2	1:t:317:LEU:HD11	2.44	0.51
1:v:322:VAL:CG1	1:v:673:GLN:HE21	2.22	0.51
1:z:355:VAL:H	1:z:646:GLN:HE22	1.56	0.51
1:z:438:PRO:HB3	1:7:380:LEU:HD21	1.92	0.51
1:7:355:VAL:H	1:7:646:GLN:HE22	1.56	0.51
1:8:355:VAL:H	1:8:646:GLN:HE22	1.56	0.51
1:E:311:LYS:HE2	1:E:686:GLU:HB3	1.89	0.51
1:H:604:GLY:HA3	1:W:634:LEU:HD11	1.91	0.51
1:M:247:TRP:CZ2	1:M:317:LEU:HD11	2.44	0.51
1:M:250:PRO:HB3	1:N:658:PRO:HG2	1.93	0.51
1:Q:699:ILE:HD13	1:R:703:SER:HB2	1.92	0.51
1:Q:703:SER:HB2	1:R:699:ILE:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:581:ALA:O	1:S:485:ARG:HD3	2.10	0.51
1:V:355:VAL:H	1:V:646:GLN:HE22	1.56	0.51
1:W:383:ASN:ND2	1:W:385:GLY:O	2.42	0.51
1:X:634:LEU:HD11	1:4:604:GLY:HA3	1.91	0.51
1:d:676:THR:HG22	1:d:677:GLY:H	1.74	0.51
1:g:438:PRO:HB3	1:h:380:LEU:HD21	1.92	0.51
1:r:604:GLY:HA3	1:s:634:LEU:HD11	1.91	0.51
1:u:322:VAL:CG1	1:u:673:GLN:HE21	2.22	0.51
1:v:703:SER:HB2	1:x:699:ILE:HD13	1.93	0.51
1:8:676:THR:HG22	1:8:677:GLY:H	1.74	0.51
1:E:438:PRO:HB3	1:Q:380:LEU:HD21	1.91	0.51
1:U:702:THR:HG22	1:V:700:GLN:HB2	1.93	0.51
1:X:676:THR:HG22	1:X:677:GLY:H	1.74	0.51
1:Z:322:VAL:CG1	1:Z:673:GLN:HE21	2.22	0.51
1:2:703:SER:HB2	1:3:699:ILE:HD13	1.93	0.51
1:c:355:VAL:H	1:c:646:GLN:HE22	1.56	0.51
1:g:325:VAL:HG22	1:g:334:ILE:HG12	1.91	0.51
1:j:322:VAL:CG1	1:j:673:GLN:HE21	2.22	0.51
1:l:325:VAL:HG22	1:l:334:ILE:HG12	1.91	0.51
1:n:699:ILE:HD13	1:y:703:SER:HB2	1.92	0.51
1:o:438:PRO:HB3	1:p:380:LEU:HD21	1.92	0.51
1:q:325:VAL:HG22	1:q:334:ILE:HG12	1.91	0.51
1:q:581:ALA:O	1:r:485:ARG:HD3	2.09	0.51
1:A:311:LYS:CE	1:A:686:GLU:CB	2.86	0.51
1:C:322:VAL:CG1	1:C:673:GLN:HE21	2.22	0.51
1:E:380:LEU:HD21	1:F:438:PRO:HB3	1.92	0.51
1:J:581:ALA:O	1:L:485:ARG:HD3	2.09	0.51
1:J:699:ILE:HD13	1:K:703:SER:HB2	1.92	0.51
1:R:604:GLY:HA3	1:S:634:LEU:HD11	1.92	0.51
1:T:261:SER:O	1:T:264:THR:OG1	2.26	0.51
1:Y:519:ASN:O	1:Y:520:PRO:C	2.54	0.51
1:3:380:LEU:HD21	1:j:438:PRO:HB3	1.92	0.51
1:c:380:LEU:HD21	1:e:438:PRO:HB3	1.91	0.51
1:h:355:VAL:H	1:h:646:GLN:HE22	1.56	0.51
1:h:519:ASN:O	1:h:520:PRO:C	2.54	0.51
1:i:702:THR:HG22	1:z:700:GLN:HB2	1.93	0.51
1:j:355:VAL:H	1:j:646:GLN:HE22	1.56	0.51
1:n:581:ALA:O	1:o:485:ARG:HD3	2.09	0.51
1:v:261:SER:O	1:v:264:THR:OG1	2.26	0.51
1:A:325:VAL:HG22	1:A:334:ILE:HG12	1.91	0.51
1:D:604:GLY:HA3	1:N:634:LEU:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:519:ASN:O	1:E:520:PRO:C	2.54	0.51
1:F:676:THR:HG22	1:F:677:GLY:H	1.74	0.51
1:G:566:ILE:HG12	1:G:570:ASN:ND2	2.26	0.51
1:K:380:LEU:HD21	1:8:438:PRO:HB3	1.92	0.51
1:K:435:LEU:HD21	1:K:736:LEU:HD22	1.93	0.51
1:U:311:LYS:CE	1:U:686:GLU:CB	2.86	0.51
1:U:519:ASN:O	1:U:520:PRO:C	2.54	0.51
1:V:519:ASN:O	1:V:520:PRO:C	2.54	0.51
1:W:519:ASN:O	1:W:520:PRO:C	2.54	0.51
1:1:566:ILE:HG12	1:1:570:ASN:ND2	2.26	0.51
1:1:699:ILE:HD13	1:w:703:SER:HB2	1.93	0.51
1:1:700:GLN:HB2	1:w:702:THR:HG22	1.93	0.51
1:c:702:THR:HG22	1:f:700:GLN:HB2	1.93	0.51
1:c:703:SER:HB2	1:f:699:ILE:HD13	1.93	0.51
1:d:438:PRO:HB3	1:e:380:LEU:HD21	1.92	0.51
1:g:676:THR:HG22	1:g:677:GLY:H	1.74	0.51
1:i:703:SER:HB2	1:z:699:ILE:HD13	1.92	0.51
1:l:519:ASN:O	1:l:520:PRO:C	2.54	0.51
1:m:519:ASN:O	1:m:520:PRO:C	2.54	0.51
1:o:519:ASN:O	1:o:520:PRO:C	2.54	0.51
1:r:566:ILE:HG12	1:r:570:ASN:ND2	2.26	0.51
1:y:435:LEU:HD21	1:y:736:LEU:HD22	1.93	0.51
1:7:676:THR:HG22	1:7:677:GLY:H	1.74	0.51
1:A:346:THR:HG22	1:A:647:ILE:HG12	1.93	0.51
1:A:634:LEU:HD11	1:I:604:GLY:HA3	1.91	0.51
1:B:380:LEU:HD21	1:L:438:PRO:HB3	1.92	0.51
1:E:699:ILE:HD13	1:P:703:SER:HB2	1.92	0.51
1:E:703:SER:HB2	1:P:699:ILE:HD13	1.93	0.51
1:F:519:ASN:O	1:F:520:PRO:C	2.54	0.51
1:G:702:THR:HG22	1:H:700:GLN:HB2	1.93	0.51
1:K:735:ASN:ND2	1:1:395:TYR:OH	2.42	0.51
1:L:519:ASN:O	1:L:520:PRO:C	2.54	0.51
1:O:604:GLY:HA3	1:g:634:LEU:HD11	1.92	0.51
1:Q:566:ILE:HG12	1:Q:570:ASN:ND2	2.26	0.51
1:S:346:THR:HG22	1:S:647:ILE:HG12	1.93	0.51
1:S:519:ASN:O	1:S:520:PRO:C	2.54	0.51
1:T:519:ASN:O	1:T:520:PRO:C	2.54	0.51
1:W:325:VAL:HG22	1:W:334:ILE:HG12	1.91	0.51
1:X:325:VAL:HG22	1:X:334:ILE:HG12	1.91	0.51
1:c:566:ILE:HG12	1:c:570:ASN:ND2	2.26	0.51
1:d:435:LEU:HD21	1:d:736:LEU:HD22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:604:GLY:HA3	1:e:634:LEU:HD11	1.91	0.51
1:e:519:ASN:O	1:e:520:PRO:C	2.54	0.51
1:g:700:GLN:HB2	1:l:702:THR:HG22	1.93	0.51
1:k:700:GLN:HB2	1:r:702:THR:HG22	1.93	0.51
1:n:435:LEU:HD21	1:n:736:LEU:HD22	1.93	0.51
1:n:700:GLN:HB2	1:y:702:THR:HG22	1.93	0.51
1:q:346:THR:HG22	1:q:647:ILE:HG12	1.93	0.51
1:r:435:LEU:HD21	1:r:736:LEU:HD22	1.93	0.51
1:z:566:ILE:HG12	1:z:570:ASN:ND2	2.26	0.51
1:7:311:LYS:HE2	1:7:686:GLU:HB3	1.89	0.51
1:8:346:THR:HG22	1:8:647:ILE:HG12	1.93	0.51
1:A:322:VAL:CG1	1:A:673:GLN:HE21	2.22	0.51
1:F:435:LEU:HD21	1:F:736:LEU:HD22	1.93	0.51
1:G:435:LEU:HD21	1:G:736:LEU:HD22	1.93	0.51
1:J:346:THR:HG22	1:J:647:ILE:HG12	1.93	0.51
1:J:435:LEU:HD21	1:J:736:LEU:HD22	1.93	0.51
1:J:735:ASN:ND2	1:L:395:TYR:OH	2.41	0.51
1:K:395:TYR:OH	1:8:735:ASN:ND2	2.44	0.51
1:K:676:THR:HG22	1:K:677:GLY:H	1.74	0.51
1:N:261:SER:O	1:N:264:THR:OG1	2.26	0.51
1:N:676:THR:HG22	1:N:677:GLY:H	1.74	0.51
1:Q:700:GLN:HB2	1:R:702:THR:HG22	1.93	0.51
1:W:435:LEU:HD21	1:W:736:LEU:HD22	1.93	0.51
1:Z:435:LEU:HD21	1:Z:736:LEU:HD22	1.93	0.51
1:5:634:LEU:HD11	1:a:604:GLY:HA3	1.92	0.51
1:b:702:THR:HG22	1:e:700:GLN:HB2	1.93	0.51
1:b:703:SER:HB2	1:e:699:ILE:HD13	1.93	0.51
1:c:519:ASN:O	1:c:520:PRO:C	2.54	0.51
1:d:519:ASN:O	1:d:520:PRO:C	2.54	0.51
1:f:261:SER:O	1:f:264:THR:OG1	2.26	0.51
1:i:519:ASN:O	1:i:520:PRO:C	2.54	0.51
1:j:435:LEU:HD21	1:j:736:LEU:HD22	1.93	0.51
1:q:311:LYS:CE	1:q:686:GLU:CB	2.86	0.51
1:q:566:ILE:HG12	1:q:570:ASN:ND2	2.26	0.51
1:t:604:GLY:HA3	1:u:634:LEU:HD11	1.92	0.51
1:7:346:THR:HG22	1:7:647:ILE:HG12	1.93	0.51
1:8:325:VAL:HG22	1:8:334:ILE:HG12	1.91	0.51
1:A:566:ILE:HG12	1:A:570:ASN:ND2	2.26	0.50
1:C:654:VAL:HG22	1:D:321:GLN:HE22	1.77	0.50
1:C:702:THR:HG22	1:L:700:GLN:HB2	1.93	0.50
1:E:261:SER:O	1:E:264:THR:OG1	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:634:LEU:HD11	1:F:604:GLY:HA3	1.91	0.50
1:E:700:GLN:HB2	1:P:702:THR:HG22	1.93	0.50
1:O:346:THR:HG22	1:O:647:ILE:HG12	1.93	0.50
1:O:519:ASN:O	1:O:520:PRO:C	2.54	0.50
1:Q:519:ASN:O	1:Q:520:PRO:C	2.54	0.50
1:R:261:SER:O	1:R:264:THR:OG1	2.26	0.50
1:R:380:LEU:HD21	1:U:438:PRO:HB3	1.92	0.50
1:T:346:THR:HG22	1:T:647:ILE:HG12	1.93	0.50
1:V:346:THR:HG22	1:V:647:ILE:HG12	1.93	0.50
1:V:435:LEU:HD21	1:V:736:LEU:HD22	1.93	0.50
1:Y:566:ILE:HG12	1:Y:570:ASN:ND2	2.26	0.50
1:Y:699:ILE:HD13	1:Z:703:SER:HB2	1.92	0.50
1:3:676:THR:HG22	1:3:677:GLY:H	1.74	0.50
1:4:519:ASN:O	1:4:520:PRO:C	2.54	0.50
1:5:676:THR:HG22	1:5:677:GLY:H	1.74	0.50
1:a:321:GLN:HE22	1:u:654:VAL:HG22	1.77	0.50
1:b:699:ILE:HD13	1:e:703:SER:HB2	1.93	0.50
1:j:703:SER:HB2	1:m:699:ILE:HD13	1.92	0.50
1:k:435:LEU:HD21	1:k:736:LEU:HD22	1.93	0.50
1:l:435:LEU:HD21	1:l:736:LEU:HD22	1.93	0.50
1:m:566:ILE:HG12	1:m:570:ASN:ND2	2.26	0.50
1:n:735:ASN:ND2	1:o:395:TYR:OH	2.41	0.50
1:p:700:GLN:HB2	1:s:702:THR:HG22	1.93	0.50
1:w:380:LEU:HD21	1:x:438:PRO:HB3	1.92	0.50
1:w:519:ASN:O	1:w:520:PRO:C	2.54	0.50
1:x:676:THR:HG22	1:x:677:GLY:H	1.74	0.50
1:y:676:THR:HG22	1:y:677:GLY:H	1.74	0.50
1:8:311:LYS:HE2	1:8:686:GLU:HB3	1.89	0.50
1:A:702:THR:HG22	1:F:700:GLN:HB2	1.93	0.50
1:B:700:GLN:HB2	1:I:702:THR:HG22	1.93	0.50
1:C:519:ASN:O	1:C:520:PRO:C	2.54	0.50
1:F:566:ILE:HG12	1:F:570:ASN:ND2	2.26	0.50
1:G:519:ASN:O	1:G:520:PRO:C	2.54	0.50
1:H:435:LEU:HD21	1:H:736:LEU:HD22	1.93	0.50
1:N:707:LYS:NZ	1:g:384:ASP:OD2	2.36	0.50
1:P:346:THR:HG22	1:P:647:ILE:HG12	1.93	0.50
1:S:438:PRO:HB3	1:U:380:LEU:HD21	1.92	0.50
1:U:346:THR:HG22	1:U:647:ILE:HG12	1.93	0.50
1:U:566:ILE:HG12	1:U:570:ASN:ND2	2.26	0.50
1:U:699:ILE:HD13	1:V:703:SER:HB2	1.92	0.50
1:W:346:THR:HG22	1:W:647:ILE:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:702:THR:HG22	1:X:700:GLN:HB2	1.93	0.50
1:Y:346:THR:HG22	1:Y:647:ILE:HG12	1.93	0.50
1:1:702:THR:HG22	1:w:700:GLN:HB2	1.93	0.50
1:2:566:ILE:HG12	1:2:570:ASN:ND2	2.26	0.50
1:2:700:GLN:HB2	1:3:702:THR:HG22	1.93	0.50
1:3:438:PRO:HB3	1:i:380:LEU:HD21	1.91	0.50
1:4:699:ILE:HD13	1:5:703:SER:HB2	1.92	0.50
1:5:261:SER:O	1:5:264:THR:OG1	2.26	0.50
1:a:311:LYS:CE	1:a:686:GLU:CB	2.86	0.50
1:f:435:LEU:HD21	1:f:736:LEU:HD22	1.93	0.50
1:h:435:LEU:HD21	1:h:736:LEU:HD22	1.93	0.50
1:l:346:THR:HG22	1:l:647:ILE:HG12	1.93	0.50
1:n:346:THR:HG22	1:n:647:ILE:HG12	1.93	0.50
1:o:700:GLN:HB2	1:u:702:THR:HG22	1.93	0.50
1:t:462:LYS:HB3	1:u:552:ASN:HA	1.92	0.50
1:t:519:ASN:O	1:t:520:PRO:C	2.54	0.50
1:v:700:GLN:HB2	1:x:702:THR:HG22	1.94	0.50
1:C:634:LEU:HD11	1:M:604:GLY:HA3	1.92	0.50
1:D:261:SER:O	1:D:264:THR:OG1	2.26	0.50
1:M:519:ASN:O	1:M:520:PRO:C	2.54	0.50
1:M:634:LEU:HD11	1:2:604:GLY:HA3	1.92	0.50
1:N:700:GLN:HB2	1:O:702:THR:HG22	1.93	0.50
1:Q:435:LEU:HD21	1:Q:736:LEU:HD22	1.93	0.50
1:Q:702:THR:HG22	1:R:700:GLN:HB2	1.93	0.50
1:X:435:LEU:HD21	1:X:736:LEU:HD22	1.93	0.50
1:3:346:THR:HG22	1:3:647:ILE:HG12	1.93	0.50
1:4:346:THR:HG22	1:4:647:ILE:HG12	1.93	0.50
1:c:699:ILE:HD13	1:f:703:SER:HB2	1.93	0.50
1:d:566:ILE:HG12	1:d:570:ASN:ND2	2.26	0.50
1:e:261:SER:O	1:e:264:THR:OG1	2.26	0.50
1:f:654:VAL:HG22	1:h:321:GLN:HE22	1.76	0.50
1:h:346:THR:HG22	1:h:647:ILE:HG12	1.93	0.50
1:k:311:LYS:HE2	1:k:686:GLU:HB3	1.89	0.50
1:m:346:THR:HG22	1:m:647:ILE:HG12	1.93	0.50
1:q:634:LEU:HD11	1:s:604:GLY:HA3	1.92	0.50
1:t:634:LEU:HD11	1:v:604:GLY:HA3	1.92	0.50
1:u:519:ASN:O	1:u:520:PRO:C	2.54	0.50
1:v:566:ILE:HG12	1:v:570:ASN:ND2	2.26	0.50
1:v:702:THR:HG22	1:x:700:GLN:HB2	1.93	0.50
1:z:735:ASN:ND2	1:7:395:TYR:OH	2.41	0.50
1:A:435:LEU:HD21	1:A:736:LEU:HD22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:311:LYS:CE	1:D:686:GLU:CB	2.86	0.50
1:D:346:THR:HG22	1:D:647:ILE:HG12	1.93	0.50
1:D:519:ASN:O	1:D:520:PRO:C	2.54	0.50
1:K:519:ASN:O	1:K:520:PRO:C	2.54	0.50
1:R:346:THR:HG22	1:R:647:ILE:HG12	1.93	0.50
1:R:435:LEU:HD21	1:R:736:LEU:HD22	1.93	0.50
1:T:321:GLN:HE22	1:U:654:VAL:HG22	1.77	0.50
1:W:566:ILE:HG12	1:W:570:ASN:ND2	2.26	0.50
1:X:566:ILE:HG12	1:X:570:ASN:ND2	2.26	0.50
1:2:702:THR:HG22	1:3:700:GLN:HB2	1.93	0.50
1:4:702:THR:HG22	1:5:700:GLN:HB2	1.93	0.50
1:a:346:THR:HG22	1:a:647:ILE:HG12	1.93	0.50
1:a:519:ASN:O	1:a:520:PRO:C	2.54	0.50
1:c:435:LEU:HD21	1:c:736:LEU:HD22	1.93	0.50
1:d:700:GLN:HB2	1:q:702:THR:HG22	1.93	0.50
1:f:346:THR:HG22	1:f:647:ILE:HG12	1.93	0.50
1:g:355:VAL:H	1:g:646:GLN:HE22	1.57	0.50
1:i:346:THR:HG22	1:i:647:ILE:HG12	1.93	0.50
1:i:700:GLN:HB2	1:z:702:THR:HG22	1.94	0.50
1:j:519:ASN:O	1:j:520:PRO:C	2.54	0.50
1:l:566:ILE:HG12	1:l:570:ASN:ND2	2.26	0.50
1:n:261:SER:O	1:n:264:THR:OG1	2.26	0.50
1:p:435:LEU:HD21	1:p:736:LEU:HD22	1.93	0.50
1:r:519:ASN:O	1:r:520:PRO:C	2.54	0.50
1:w:346:THR:HG22	1:w:647:ILE:HG12	1.93	0.50
1:x:346:THR:HG22	1:x:647:ILE:HG12	1.93	0.50
1:y:519:ASN:O	1:y:520:PRO:C	2.54	0.50
1:7:325:VAL:HG22	1:7:334:ILE:HG12	1.91	0.50
1:B:435:LEU:HD21	1:B:736:LEU:HD22	1.93	0.50
1:C:552:ASN:HA	1:M:462:LYS:HB3	1.92	0.50
1:D:435:LEU:HD21	1:D:736:LEU:HD22	1.93	0.50
1:J:261:SER:O	1:J:264:THR:OG1	2.26	0.50
1:P:519:ASN:O	1:P:520:PRO:C	2.54	0.50
1:W:699:ILE:HD13	1:X:703:SER:HB2	1.92	0.50
1:W:703:SER:HB2	1:X:699:ILE:HD13	1.92	0.50
1:Z:519:ASN:O	1:Z:520:PRO:C	2.54	0.50
1:1:604:GLY:HA3	1:8:634:LEU:HD11	1.94	0.50
1:b:346:THR:HG22	1:b:647:ILE:HG12	1.93	0.50
1:b:519:ASN:O	1:b:520:PRO:C	2.54	0.50
1:g:435:LEU:HD21	1:g:736:LEU:HD22	1.93	0.50
1:g:566:ILE:HG12	1:g:570:ASN:ND2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:435:LEU:HD21	1:x:736:LEU:HD22	1.93	0.50
1:7:519:ASN:O	1:7:520:PRO:C	2.54	0.50
1:8:261:SER:O	1:8:264:THR:OG1	2.26	0.50
1:8:519:ASN:O	1:8:520:PRO:C	2.54	0.50
1:D:735:ASN:ND2	1:N:395:TYR:OH	2.44	0.50
1:G:346:THR:HG22	1:G:647:ILE:HG12	1.93	0.50
1:H:566:ILE:HG12	1:H:570:ASN:ND2	2.26	0.50
1:N:703:SER:HB2	1:O:699:ILE:HD13	1.93	0.50
1:U:700:GLN:HB2	1:V:702:THR:HG22	1.94	0.50
1:X:346:THR:HG22	1:X:647:ILE:HG12	1.93	0.50
1:X:519:ASN:O	1:X:520:PRO:C	2.54	0.50
1:2:519:ASN:O	1:2:520:PRO:C	2.54	0.50
1:3:566:ILE:HG12	1:3:570:ASN:ND2	2.26	0.50
1:a:261:SER:O	1:a:264:THR:OG1	2.26	0.50
1:a:435:LEU:HD21	1:a:736:LEU:HD22	1.93	0.50
1:g:346:THR:HG22	1:g:647:ILE:HG12	1.93	0.50
1:g:699:ILE:HD13	1:l:703:SER:HB2	1.92	0.50
1:g:703:SER:HB2	1:l:699:ILE:HD13	1.92	0.50
1:i:566:ILE:HG12	1:i:570:ASN:ND2	2.26	0.50
1:j:702:THR:HG22	1:m:700:GLN:HB2	1.93	0.50
1:k:566:ILE:HG12	1:k:570:ASN:ND2	2.26	0.50
1:q:435:LEU:HD21	1:q:736:LEU:HD22	1.93	0.50
1:v:435:LEU:HD21	1:v:736:LEU:HD22	1.93	0.50
1:y:658:PRO:HG2	1:8:250:PRO:HB3	1.93	0.50
1:A:519:ASN:O	1:A:520:PRO:C	2.54	0.50
1:B:519:ASN:O	1:B:520:PRO:C	2.54	0.50
1:C:380:LEU:HD21	1:M:438:PRO:HB3	1.94	0.50
1:H:519:ASN:O	1:H:520:PRO:C	2.54	0.50
1:M:242:THR:HG22	1:M:682:GLU:HG3	1.94	0.50
1:N:346:THR:HG22	1:N:647:ILE:HG12	1.93	0.50
1:R:519:ASN:O	1:R:520:PRO:C	2.54	0.50
1:T:566:ILE:HG12	1:T:570:ASN:ND2	2.26	0.50
1:Y:700:GLN:HB2	1:Z:702:THR:HG22	1.93	0.50
1:2:242:THR:HG22	1:2:682:GLU:HG3	1.94	0.50
1:2:435:LEU:HD21	1:2:736:LEU:HD22	1.93	0.50
1:5:346:THR:HG22	1:5:647:ILE:HG12	1.93	0.50
1:5:395:TYR:OH	1:a:735:ASN:ND2	2.44	0.50
1:c:242:THR:HG22	1:c:682:GLU:HG3	1.94	0.50
1:k:519:ASN:O	1:k:520:PRO:C	2.54	0.50
1:n:702:THR:HG22	1:y:700:GLN:HB2	1.93	0.50
1:o:566:ILE:HG12	1:o:570:ASN:ND2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:519:ASN:O	1:q:520:PRO:C	2.54	0.50
1:t:242:THR:HG22	1:t:682:GLU:HG3	1.94	0.50
1:t:438:PRO:HB3	1:u:380:LEU:HD21	1.94	0.50
1:v:519:ASN:O	1:v:520:PRO:C	2.54	0.50
1:w:566:ILE:HG12	1:w:570:ASN:ND2	2.26	0.50
1:x:566:ILE:HG12	1:x:570:ASN:ND2	2.26	0.50
1:7:242:THR:HG22	1:7:682:GLU:HG3	1.94	0.50
1:C:242:THR:HG22	1:C:682:GLU:HG3	1.94	0.50
1:G:246:THR:HG23	1:G:371:VAL:HG22	1.94	0.50
1:M:654:VAL:HG22	1:3:321:GLN:HE22	1.77	0.50
1:O:238:ARG:NH1	1:O:240:ILE:HD11	2.27	0.50
1:O:246:THR:HG23	1:O:371:VAL:HG22	1.94	0.50
1:P:246:THR:HG23	1:P:371:VAL:HG22	1.94	0.50
1:S:566:ILE:HG12	1:S:570:ASN:ND2	2.26	0.50
1:W:242:THR:HG22	1:W:682:GLU:HG3	1.94	0.50
1:Y:309:ARG:NH2	1:Y:686:GLU:OE1	2.31	0.50
1:Y:702:THR:HG22	1:Z:700:GLN:HB2	1.93	0.50
1:3:435:LEU:HD21	1:3:736:LEU:HD22	1.93	0.50
1:4:242:THR:HG22	1:4:682:GLU:HG3	1.94	0.50
1:4:246:THR:HG23	1:4:371:VAL:HG22	1.94	0.50
1:a:246:THR:HG23	1:a:371:VAL:HG22	1.94	0.50
1:b:246:THR:HG23	1:b:371:VAL:HG22	1.94	0.50
1:c:700:GLN:HB2	1:f:702:THR:HG22	1.94	0.50
1:g:519:ASN:O	1:g:520:PRO:C	2.54	0.50
1:i:435:LEU:HD21	1:i:736:LEU:HD22	1.93	0.50
1:j:700:GLN:HB2	1:m:702:THR:HG22	1.93	0.50
1:k:395:TYR:OH	1:m:735:ASN:ND2	2.42	0.50
1:l:242:THR:HG22	1:l:682:GLU:HG3	1.94	0.50
1:n:246:THR:HG23	1:n:371:VAL:HG22	1.94	0.50
1:p:519:ASN:O	1:p:520:PRO:C	2.54	0.50
1:r:346:THR:HG22	1:r:647:ILE:HG12	1.93	0.50
1:s:242:THR:HG22	1:s:682:GLU:HG3	1.94	0.50
1:s:415:TYR:OH	1:s:642:HIS:O	2.30	0.50
1:s:519:ASN:O	1:s:520:PRO:C	2.54	0.50
1:t:654:VAL:HG22	1:x:321:GLN:HE22	1.76	0.50
1:u:242:THR:HG22	1:u:682:GLU:HG3	1.94	0.50
1:v:242:THR:HG22	1:v:682:GLU:HG3	1.94	0.50
1:x:246:THR:HG23	1:x:371:VAL:HG22	1.94	0.50
1:z:242:THR:HG22	1:z:682:GLU:HG3	1.94	0.50
1:7:261:SER:O	1:7:264:THR:OG1	2.26	0.50
1:D:246:THR:HG23	1:D:371:VAL:HG22	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:634:LEU:HD21	1:P:604:GLY:HA3	1.94	0.50
1:H:321:GLN:HE22	1:I:654:VAL:HG22	1.77	0.50
1:H:395:TYR:OH	1:Y:735:ASN:ND2	2.42	0.50
1:H:481:GLY:HA3	1:H:607:TRP:HB3	1.94	0.50
1:I:242:THR:HG22	1:I:682:GLU:HG3	1.94	0.50
1:I:415:TYR:OH	1:I:642:HIS:O	2.30	0.50
1:I:519:ASN:O	1:I:520:PRO:C	2.54	0.50
1:J:246:THR:HG23	1:J:371:VAL:HG22	1.94	0.50
1:J:481:GLY:HA3	1:J:607:TRP:HB3	1.94	0.50
1:J:702:THR:HG22	1:K:700:GLN:HB2	1.93	0.50
1:K:346:THR:HG22	1:K:647:ILE:HG12	1.93	0.50
1:L:566:ILE:HG12	1:L:570:ASN:ND2	2.26	0.50
1:N:481:GLY:HA3	1:N:607:TRP:HB3	1.94	0.50
1:N:519:ASN:O	1:N:520:PRO:C	2.54	0.50
1:Q:242:THR:HG22	1:Q:682:GLU:HG3	1.94	0.50
1:R:246:THR:HG23	1:R:371:VAL:HG22	1.94	0.50
1:S:238:ARG:NH1	1:S:240:ILE:HD11	2.27	0.50
1:T:238:ARG:NH1	1:T:240:ILE:HD11	2.27	0.50
1:V:246:THR:HG23	1:V:371:VAL:HG22	1.94	0.50
1:W:238:ARG:NH1	1:W:240:ILE:HD11	2.27	0.50
1:W:700:GLN:HB2	1:X:702:THR:HG22	1.93	0.50
1:X:242:THR:HG22	1:X:682:GLU:HG3	1.94	0.50
1:1:242:THR:HG22	1:1:682:GLU:HG3	1.94	0.50
1:4:238:ARG:NH1	1:4:240:ILE:HD11	2.27	0.50
1:4:311:LYS:CE	1:4:686:GLU:CB	2.86	0.50
1:5:481:GLY:HA3	1:5:607:TRP:HB3	1.94	0.50
1:5:519:ASN:O	1:5:520:PRO:C	2.54	0.50
1:f:246:THR:HG23	1:f:371:VAL:HG22	1.94	0.50
1:f:519:ASN:O	1:f:520:PRO:C	2.54	0.50
1:g:242:THR:HG22	1:g:682:GLU:HG3	1.94	0.50
1:k:321:GLN:HE22	1:s:654:VAL:HG22	1.77	0.50
1:l:238:ARG:NH1	1:l:240:ILE:HD11	2.27	0.50
1:m:309:ARG:NH2	1:m:686:GLU:OE1	2.31	0.50
1:n:481:GLY:HA3	1:n:607:TRP:HB3	1.94	0.50
1:p:566:ILE:HG12	1:p:570:ASN:ND2	2.26	0.50
1:r:246:THR:HG23	1:r:371:VAL:HG22	1.94	0.50
1:w:435:LEU:HD21	1:w:736:LEU:HD22	1.93	0.50
1:y:346:THR:HG22	1:y:647:ILE:HG12	1.93	0.50
1:8:242:THR:HG22	1:8:682:GLU:HG3	1.94	0.50
1:A:654:VAL:HG22	1:B:321:GLN:HE22	1.77	0.49
1:B:346:THR:HG22	1:B:647:ILE:HG12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:566:ILE:HG12	1:B:570:ASN:ND2	2.26	0.49
1:D:415:TYR:OH	1:D:642:HIS:O	2.30	0.49
1:D:481:GLY:HA3	1:D:607:TRP:HB3	1.94	0.49
1:D:654:VAL:HG22	1:E:321:GLN:HE22	1.76	0.49
1:E:238:ARG:NH1	1:E:240:ILE:HD11	2.27	0.49
1:F:242:THR:HG22	1:F:682:GLU:HG3	1.94	0.49
1:G:700:GLN:HB2	1:H:702:THR:HG22	1.93	0.49
1:I:321:GLN:HE22	1:J:654:VAL:HG22	1.77	0.49
1:I:481:GLY:HA3	1:I:607:TRP:HB3	1.94	0.49
1:J:242:THR:HG22	1:J:682:GLU:HG3	1.94	0.49
1:J:703:SER:HB2	1:K:699:ILE:HD13	1.92	0.49
1:M:415:TYR:OH	1:M:642:HIS:O	2.30	0.49
1:O:242:THR:HG22	1:O:682:GLU:HG3	1.94	0.49
1:O:271:ASP:OD1	1:O:515:ASN:N	2.45	0.49
1:T:654:VAL:HG22	1:c:321:GLN:HE22	1.77	0.49
1:W:735:ASN:ND2	1:Y:395:TYR:OH	2.42	0.49
1:Z:481:GLY:HA3	1:Z:607:TRP:HB3	1.94	0.49
1:3:246:THR:HG23	1:3:371:VAL:HG22	1.94	0.49
1:4:321:GLN:HE22	1:b:654:VAL:HG22	1.77	0.49
1:a:415:TYR:OH	1:a:642:HIS:O	2.30	0.49
1:a:481:GLY:HA3	1:a:607:TRP:HB3	1.94	0.49
1:a:634:LEU:HD21	1:b:604:GLY:HA3	1.94	0.49
1:d:242:THR:HG22	1:d:682:GLU:HG3	1.94	0.49
1:d:321:GLN:HE22	1:r:654:VAL:HG22	1.77	0.49
1:g:702:THR:HG22	1:l:700:GLN:HB2	1.93	0.49
1:h:246:THR:HG23	1:h:371:VAL:HG22	1.94	0.49
1:i:481:GLY:HA3	1:i:607:TRP:HB3	1.94	0.49
1:j:481:GLY:HA3	1:j:607:TRP:HB3	1.94	0.49
1:k:481:GLY:HA3	1:k:607:TRP:HB3	1.94	0.49
1:l:735:ASN:ND2	1:m:395:TYR:OH	2.42	0.49
1:n:654:VAL:HG22	1:s:321:GLN:HE22	1.77	0.49
1:p:346:THR:HG22	1:p:647:ILE:HG12	1.93	0.49
1:w:481:GLY:HA3	1:w:607:TRP:HB3	1.94	0.49
1:z:435:LEU:HD21	1:z:736:LEU:HD22	1.93	0.49
1:C:271:ASP:OD1	1:C:515:ASN:N	2.46	0.49
1:D:242:THR:HG22	1:D:682:GLU:HG3	1.94	0.49
1:F:321:GLN:HE22	1:G:654:VAL:HG22	1.77	0.49
1:I:435:LEU:HD21	1:I:736:LEU:HD22	1.93	0.49
1:L:246:THR:HG23	1:L:371:VAL:HG22	1.94	0.49
1:L:481:GLY:HA3	1:L:607:TRP:HB3	1.94	0.49
1:N:238:ARG:NH1	1:N:240:ILE:HD11	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:435:LEU:HD21	1:O:736:LEU:HD22	1.93	0.49
1:R:271:ASP:OD1	1:R:515:ASN:N	2.46	0.49
1:V:630:HIS:O	1:V:632:SER:N	2.43	0.49
1:W:415:TYR:OH	1:W:642:HIS:O	2.30	0.49
1:1:735:ASN:ND2	1:8:395:TYR:OH	2.42	0.49
1:2:246:THR:HG23	1:2:371:VAL:HG22	1.94	0.49
1:3:519:ASN:O	1:3:520:PRO:C	2.54	0.49
1:4:271:ASP:OD1	1:4:515:ASN:N	2.46	0.49
1:5:238:ARG:NH1	1:5:240:ILE:HD11	2.27	0.49
1:a:242:THR:HG22	1:a:682:GLU:HG3	1.94	0.49
1:a:654:VAL:HG22	1:e:321:GLN:HE22	1.76	0.49
1:e:238:ARG:NH1	1:e:240:ILE:HD11	2.27	0.49
1:e:435:LEU:HD21	1:e:736:LEU:HD22	1.93	0.49
1:f:271:ASP:OD1	1:f:515:ASN:N	2.46	0.49
1:h:654:VAL:HG22	1:l:321:GLN:HE22	1.77	0.49
1:j:246:THR:HG23	1:j:371:VAL:HG22	1.94	0.49
1:l:415:TYR:OH	1:l:642:HIS:O	2.30	0.49
1:n:703:SER:HB2	1:y:699:ILE:HD13	1.92	0.49
1:o:246:THR:HG23	1:o:371:VAL:HG22	1.94	0.49
1:o:481:GLY:HA3	1:o:607:TRP:HB3	1.94	0.49
1:s:481:GLY:HA3	1:s:607:TRP:HB3	1.94	0.49
1:t:415:TYR:OH	1:t:642:HIS:O	2.30	0.49
1:v:238:ARG:NH1	1:v:240:ILE:HD11	2.27	0.49
1:v:246:THR:HG23	1:v:371:VAL:HG22	1.94	0.49
1:x:519:ASN:O	1:x:520:PRO:C	2.54	0.49
1:y:242:THR:HG22	1:y:682:GLU:HG3	1.94	0.49
1:A:246:THR:HG23	1:A:371:VAL:HG22	1.94	0.49
1:H:271:ASP:OD1	1:H:515:ASN:N	2.46	0.49
1:J:519:ASN:O	1:J:520:PRO:C	2.54	0.49
1:K:242:THR:HG22	1:K:682:GLU:HG3	1.94	0.49
1:K:552:ASN:HA	1:8:462:LYS:HB3	1.93	0.49
1:K:654:VAL:HG22	1:7:321:GLN:HE22	1.77	0.49
1:O:311:LYS:CE	1:O:686:GLU:CB	2.86	0.49
1:P:238:ARG:NH1	1:P:240:ILE:HD11	2.27	0.49
1:P:435:LEU:HD21	1:P:736:LEU:HD22	1.93	0.49
1:R:566:ILE:HG12	1:R:570:ASN:ND2	2.26	0.49
1:R:634:LEU:HD21	1:U:604:GLY:HA3	1.95	0.49
1:S:271:ASP:OD1	1:S:515:ASN:N	2.46	0.49
1:T:271:ASP:OD1	1:T:515:ASN:N	2.46	0.49
1:U:435:LEU:HD21	1:U:736:LEU:HD22	1.93	0.49
1:V:238:ARG:NH1	1:V:240:ILE:HD11	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:654:VAL:HG22	1:W:321:GLN:HE22	1.77	0.49
1:X:415:TYR:OH	1:X:642:HIS:O	2.30	0.49
1:Z:246:THR:HG23	1:Z:371:VAL:HG22	1.94	0.49
1:Z:346:THR:HG22	1:Z:647:ILE:HG12	1.93	0.49
1:1:435:LEU:HD21	1:1:736:LEU:HD22	1.93	0.49
1:2:238:ARG:NH1	1:2:240:ILE:HD11	2.27	0.49
1:4:700:GLN:HB2	1:5:702:THR:HG22	1.93	0.49
1:5:246:THR:HG23	1:5:371:VAL:HG22	1.94	0.49
1:5:634:LEU:HD21	1:a:604:GLY:HA3	1.94	0.49
1:f:566:ILE:HG12	1:f:570:ASN:ND2	2.26	0.49
1:h:238:ARG:NH1	1:h:240:ILE:HD11	2.27	0.49
1:i:415:TYR:OH	1:i:642:HIS:O	2.30	0.49
1:j:346:THR:HG22	1:j:647:ILE:HG12	1.93	0.49
1:k:271:ASP:OD1	1:k:515:ASN:N	2.46	0.49
1:k:346:THR:HG22	1:k:647:ILE:HG12	1.93	0.49
1:k:702:THR:HG22	1:r:700:GLN:HB2	1.93	0.49
1:m:246:THR:HG23	1:m:371:VAL:HG22	1.94	0.49
1:n:242:THR:HG22	1:n:682:GLU:HG3	1.94	0.49
1:n:519:ASN:O	1:n:520:PRO:C	2.54	0.49
1:p:321:GLN:HE22	1:q:654:VAL:HG22	1.78	0.49
1:q:246:THR:HG23	1:q:371:VAL:HG22	1.94	0.49
1:s:435:LEU:HD21	1:s:736:LEU:HD22	1.93	0.49
1:u:271:ASP:OD1	1:u:515:ASN:N	2.46	0.49
1:w:415:TYR:OH	1:w:642:HIS:O	2.30	0.49
1:A:271:ASP:OD1	1:A:515:ASN:N	2.46	0.49
1:C:346:THR:HG22	1:C:647:ILE:HG12	1.93	0.49
1:E:435:LEU:HD21	1:E:736:LEU:HD22	1.93	0.49
1:G:238:ARG:NH1	1:G:240:ILE:HD11	2.27	0.49
1:H:346:THR:HG22	1:H:647:ILE:HG12	1.93	0.49
1:H:415:TYR:OH	1:H:642:HIS:O	2.30	0.49
1:I:346:THR:HG22	1:I:647:ILE:HG12	1.93	0.49
1:N:246:THR:HG23	1:N:371:VAL:HG22	1.94	0.49
1:N:415:TYR:OH	1:N:642:HIS:O	2.30	0.49
1:P:242:THR:HG22	1:P:682:GLU:HG3	1.94	0.49
1:Q:321:GLN:HE22	1:S:654:VAL:HG22	1.78	0.49
1:U:246:THR:HG23	1:U:371:VAL:HG22	1.94	0.49
1:U:271:ASP:OD1	1:U:515:ASN:N	2.46	0.49
1:U:415:TYR:OH	1:U:642:HIS:O	2.30	0.49
1:Y:271:ASP:OD1	1:Y:515:ASN:N	2.46	0.49
1:Z:566:ILE:HG12	1:Z:570:ASN:ND2	2.26	0.49
1:1:519:ASN:O	1:1:520:PRO:C	2.54	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:435:LEU:HD21	1:4:736:LEU:HD22	1.93	0.49
1:5:435:LEU:HD21	1:5:736:LEU:HD22	1.93	0.49
1:b:238:ARG:NH1	1:b:240:ILE:HD11	2.27	0.49
1:b:435:LEU:HD21	1:b:736:LEU:HD22	1.93	0.49
1:e:566:ILE:HG12	1:e:570:ASN:ND2	2.26	0.49
1:f:238:ARG:NH1	1:f:240:ILE:HD11	2.27	0.49
1:g:415:TYR:OH	1:g:642:HIS:O	2.30	0.49
1:g:735:ASN:ND2	1:h:395:TYR:OH	2.41	0.49
1:h:566:ILE:HG12	1:h:570:ASN:ND2	2.26	0.49
1:j:566:ILE:HG12	1:j:570:ASN:ND2	2.26	0.49
1:m:271:ASP:OD1	1:m:515:ASN:N	2.46	0.49
1:p:654:VAL:HG22	1:u:321:GLN:HE22	1.78	0.49
1:r:238:ARG:NH1	1:r:240:ILE:HD11	2.27	0.49
1:s:346:THR:HG22	1:s:647:ILE:HG12	1.93	0.49
1:t:634:LEU:HD21	1:v:604:GLY:HA3	1.94	0.49
1:u:346:THR:HG22	1:u:647:ILE:HG12	1.93	0.49
1:x:242:THR:HG22	1:x:682:GLU:HG3	1.94	0.49
1:z:519:ASN:O	1:z:520:PRO:C	2.54	0.49
1:7:435:LEU:HD21	1:7:736:LEU:HD22	1.93	0.49
1:B:415:TYR:OH	1:B:642:HIS:O	2.30	0.49
1:B:654:VAL:HG22	1:C:321:GLN:HE22	1.78	0.49
1:C:435:LEU:HD21	1:C:736:LEU:HD22	1.93	0.49
1:C:604:GLY:HA3	1:2:634:LEU:HD21	1.95	0.49
1:D:604:GLY:HA3	1:N:634:LEU:HD21	1.94	0.49
1:E:566:ILE:HG12	1:E:570:ASN:ND2	2.26	0.49
1:E:702:THR:HG22	1:P:700:GLN:HB2	1.93	0.49
1:L:271:ASP:OD1	1:L:515:ASN:N	2.46	0.49
1:L:435:LEU:HD21	1:L:736:LEU:HD22	1.93	0.49
1:O:634:LEU:HD21	1:h:604:GLY:HA3	1.94	0.49
1:R:238:ARG:NH1	1:R:240:ILE:HD11	2.27	0.49
1:S:415:TYR:OH	1:S:642:HIS:O	2.30	0.49
1:V:566:ILE:HG12	1:V:570:ASN:ND2	2.26	0.49
1:Y:246:THR:HG23	1:Y:371:VAL:HG22	1.94	0.49
1:3:242:THR:HG22	1:3:682:GLU:HG3	1.94	0.49
1:3:735:ASN:ND2	1:i:395:TYR:OH	2.41	0.49
1:5:415:TYR:OH	1:5:642:HIS:O	2.30	0.49
1:b:242:THR:HG22	1:b:682:GLU:HG3	1.94	0.49
1:f:546:GLN:NE2	1:f:721:TYR:O	2.45	0.49
1:h:630:HIS:O	1:h:632:SER:N	2.43	0.49
1:k:415:TYR:OH	1:k:642:HIS:O	2.30	0.49
1:n:271:ASP:OD1	1:n:515:ASN:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:271:ASP:OD1	1:q:515:ASN:N	2.46	0.49
1:s:238:ARG:NH1	1:s:240:ILE:HD11	2.27	0.49
1:u:604:GLY:HA3	1:v:634:LEU:HD21	1.95	0.49
1:v:321:GLN:HE22	1:w:654:VAL:HG22	1.77	0.49
1:w:242:THR:HG22	1:w:682:GLU:HG3	1.94	0.49
1:w:395:TYR:OH	1:x:735:ASN:ND2	2.41	0.49
1:7:566:ILE:HG12	1:7:570:ASN:ND2	2.26	0.49
1:C:630:HIS:O	1:C:632:SER:N	2.43	0.49
1:E:346:THR:HG22	1:E:647:ILE:HG12	1.93	0.49
1:F:654:VAL:HG22	1:R:321:GLN:HE22	1.77	0.49
1:G:311:LYS:CE	1:G:686:GLU:CB	2.86	0.49
1:I:271:ASP:OD1	1:I:515:ASN:N	2.46	0.49
1:J:271:ASP:OD1	1:J:515:ASN:N	2.46	0.49
1:M:238:ARG:NH1	1:M:240:ILE:HD11	2.27	0.49
1:M:634:LEU:HD21	1:2:604:GLY:HA3	1.94	0.49
1:N:435:LEU:HD21	1:N:736:LEU:HD22	1.93	0.49
1:S:735:ASN:ND2	1:U:395:TYR:OH	2.42	0.49
1:T:415:TYR:OH	1:T:642:HIS:O	2.30	0.49
1:2:481:GLY:HA3	1:2:607:TRP:HB3	1.94	0.49
1:3:604:GLY:HA3	1:i:634:LEU:HD21	1.95	0.49
1:e:346:THR:HG22	1:e:647:ILE:HG12	1.93	0.49
1:h:271:ASP:OD1	1:h:515:ASN:N	2.45	0.49
1:i:321:GLN:HE22	1:7:654:VAL:HG22	1.78	0.49
1:l:246:THR:HG23	1:l:371:VAL:HG22	1.94	0.49
1:l:604:GLY:HA3	1:m:634:LEU:HD21	1.95	0.49
1:p:415:TYR:OH	1:p:642:HIS:O	2.30	0.49
1:s:271:ASP:OD1	1:s:515:ASN:N	2.46	0.49
1:u:435:LEU:HD21	1:u:736:LEU:HD22	1.93	0.49
1:v:481:GLY:HA3	1:v:607:TRP:HB3	1.94	0.49
1:y:634:LEU:HD21	1:7:604:GLY:HA3	1.95	0.49
1:7:690:GLU:OE1	1:8:296:ARG:NH2	2.45	0.49
1:8:435:LEU:HD21	1:8:736:LEU:HD22	1.93	0.49
1:8:566:ILE:HG12	1:8:570:ASN:ND2	2.26	0.49
1:A:238:ARG:NH1	1:A:240:ILE:HD11	2.27	0.49
1:A:634:LEU:HD21	1:I:604:GLY:HA3	1.95	0.49
1:C:700:GLN:HB2	1:L:702:THR:HG22	1.93	0.49
1:F:246:THR:HG23	1:F:371:VAL:HG22	1.94	0.49
1:H:246:THR:HG23	1:H:371:VAL:HG22	1.94	0.49
1:I:238:ARG:NH1	1:I:240:ILE:HD11	2.27	0.49
1:M:271:ASP:OD1	1:M:515:ASN:N	2.46	0.49
1:N:702:THR:HG22	1:O:700:GLN:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:735:ASN:ND2	1:P:395:TYR:OH	2.41	0.49
1:O:250:PRO:HB3	1:P:658:PRO:HG2	1.95	0.49
1:O:321:GLN:HE22	1:P:654:VAL:HG22	1.78	0.49
1:P:415:TYR:OH	1:P:642:HIS:O	2.30	0.49
1:P:481:GLY:HA3	1:P:607:TRP:HB3	1.94	0.49
1:R:546:GLN:NE2	1:R:721:TYR:O	2.45	0.49
1:R:654:VAL:HG22	1:V:321:GLN:HE22	1.78	0.49
1:T:309:ARG:NH2	1:T:686:GLU:OE1	2.31	0.49
1:V:271:ASP:OD1	1:V:515:ASN:N	2.46	0.49
1:W:246:THR:HG23	1:W:371:VAL:HG22	1.94	0.49
1:W:604:GLY:HA3	1:Y:634:LEU:HD21	1.95	0.49
1:1:238:ARG:NH1	1:1:240:ILE:HD11	2.27	0.49
1:2:321:GLN:HE22	1:i:654:VAL:HG22	1.77	0.49
1:3:261:SER:O	1:3:264:THR:OG1	2.26	0.49
1:5:735:ASN:ND2	1:b:395:TYR:OH	2.41	0.49
1:b:481:GLY:HA3	1:b:607:TRP:HB3	1.94	0.49
1:c:346:THR:HG22	1:c:647:ILE:HG12	1.93	0.49
1:d:246:THR:HG23	1:d:371:VAL:HG22	1.94	0.49
1:i:242:THR:HG22	1:i:682:GLU:HG3	1.94	0.49
1:i:546:GLN:NE2	1:i:721:TYR:O	2.45	0.49
1:n:238:ARG:NH1	1:n:240:ILE:HD11	2.27	0.49
1:n:604:GLY:HA3	1:o:634:LEU:HD21	1.95	0.49
1:o:271:ASP:OD1	1:o:515:ASN:N	2.46	0.49
1:o:435:LEU:HD21	1:o:736:LEU:HD22	1.93	0.49
1:o:604:GLY:HA3	1:p:634:LEU:HD21	1.94	0.49
1:p:242:THR:HG22	1:p:682:GLU:HG3	1.94	0.49
1:q:634:LEU:HD21	1:s:604:GLY:HA3	1.95	0.49
1:s:566:ILE:HG12	1:s:570:ASN:ND2	2.26	0.49
1:u:630:HIS:O	1:u:632:SER:N	2.43	0.49
1:w:546:GLN:NE2	1:w:721:TYR:O	2.45	0.49
1:w:634:LEU:HD21	1:x:604:GLY:HA3	1.95	0.49
1:z:238:ARG:NH1	1:z:240:ILE:HD11	2.27	0.49
1:7:246:THR:HG23	1:7:371:VAL:HG22	1.94	0.49
1:8:246:THR:HG23	1:8:371:VAL:HG22	1.94	0.49
1:B:242:THR:HG22	1:B:682:GLU:HG3	1.94	0.49
1:B:271:ASP:OD1	1:B:515:ASN:N	2.45	0.49
1:B:634:LEU:HD21	1:L:604:GLY:HA3	1.94	0.49
1:C:246:THR:HG23	1:C:371:VAL:HG22	1.94	0.49
1:D:438:PRO:HB3	1:N:380:LEU:HD21	1.94	0.49
1:E:604:GLY:HA3	1:Q:634:LEU:HD21	1.95	0.49
1:J:604:GLY:HA3	1:L:634:LEU:HD21	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:566:ILE:HG12	1:N:570:ASN:ND2	2.26	0.49
1:T:435:LEU:HD21	1:T:736:LEU:HD22	1.93	0.49
1:U:242:THR:HG22	1:U:682:GLU:HG3	1.94	0.49
1:2:346:THR:HG22	1:2:647:ILE:HG12	1.93	0.49
1:2:546:GLN:NE2	1:2:721:TYR:O	2.45	0.49
1:3:271:ASP:OD1	1:3:515:ASN:N	2.45	0.49
1:3:634:LEU:HD21	1:j:604:GLY:HA3	1.95	0.49
1:5:380:LEU:HD21	1:a:438:PRO:HB3	1.94	0.49
1:b:415:TYR:OH	1:b:642:HIS:O	2.30	0.49
1:b:700:GLN:HB2	1:e:702:THR:HG22	1.94	0.49
1:c:634:LEU:HD21	1:e:604:GLY:HA3	1.95	0.49
1:e:415:TYR:OH	1:e:642:HIS:O	2.30	0.49
1:k:246:THR:HG23	1:k:371:VAL:HG22	1.94	0.49
1:o:346:THR:HG22	1:o:647:ILE:HG12	1.93	0.49
1:o:702:THR:HG22	1:u:700:GLN:HB2	1.93	0.49
1:p:246:THR:HG23	1:p:371:VAL:HG22	1.94	0.49
1:q:238:ARG:NH1	1:q:240:ILE:HD11	2.27	0.49
1:r:311:LYS:CE	1:r:686:GLU:CB	2.86	0.49
1:t:238:ARG:NH1	1:t:240:ILE:HD11	2.27	0.49
1:x:261:SER:O	1:x:264:THR:OG1	2.26	0.49
1:x:271:ASP:OD1	1:x:515:ASN:N	2.46	0.49
1:7:238:ARG:NH1	1:7:240:ILE:HD11	2.27	0.49
1:8:271:ASP:OD1	1:8:515:ASN:N	2.45	0.49
1:B:238:ARG:NH1	1:B:240:ILE:HD11	2.27	0.49
1:B:246:THR:HG23	1:B:371:VAL:HG22	1.94	0.49
1:B:702:THR:HG22	1:I:700:GLN:HB2	1.93	0.49
1:D:630:HIS:O	1:D:632:SER:N	2.43	0.49
1:E:630:HIS:O	1:E:632:SER:N	2.43	0.49
1:F:346:THR:HG22	1:F:647:ILE:HG12	1.93	0.49
1:F:415:TYR:OH	1:F:642:HIS:O	2.30	0.49
1:I:566:ILE:HG12	1:I:570:ASN:ND2	2.26	0.49
1:J:238:ARG:NH1	1:J:240:ILE:HD11	2.27	0.49
1:L:238:ARG:NH1	1:L:240:ILE:HD11	2.27	0.49
1:L:346:THR:HG22	1:L:647:ILE:HG12	1.93	0.49
1:P:566:ILE:HG12	1:P:570:ASN:ND2	2.26	0.49
1:Q:346:THR:HG22	1:Q:647:ILE:HG12	1.93	0.49
1:S:435:LEU:HD21	1:S:736:LEU:HD22	1.93	0.49
1:V:395:TYR:OH	1:X:735:ASN:ND2	2.42	0.49
1:V:415:TYR:OH	1:V:642:HIS:O	2.30	0.49
1:X:321:GLN:HE22	1:Y:654:VAL:HG22	1.78	0.49
1:Y:321:GLN:HE22	1:x:654:VAL:HG22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:435:LEU:HD21	1:Y:736:LEU:HD22	1.93	0.49
1:1:346:THR:HG22	1:1:647:ILE:HG12	1.93	0.49
1:2:415:TYR:OH	1:2:642:HIS:O	2.30	0.49
1:5:566:ILE:HG12	1:5:570:ASN:ND2	2.26	0.49
1:d:415:TYR:OH	1:d:642:HIS:O	2.30	0.49
1:e:654:VAL:HG22	1:q:321:GLN:HE22	1.77	0.49
1:g:321:GLN:HE22	1:m:654:VAL:HG22	1.77	0.49
1:j:271:ASP:OD1	1:j:515:ASN:N	2.45	0.49
1:p:238:ARG:NH1	1:p:240:ILE:HD11	2.27	0.49
1:p:271:ASP:OD1	1:p:515:ASN:N	2.45	0.49
1:p:546:GLN:NE2	1:p:721:TYR:O	2.45	0.49
1:p:702:THR:HG22	1:s:700:GLN:HB2	1.93	0.49
1:r:242:THR:HG22	1:r:682:GLU:HG3	1.94	0.49
1:v:346:THR:HG22	1:v:647:ILE:HG12	1.93	0.49
1:v:415:TYR:OH	1:v:642:HIS:O	2.30	0.49
1:v:546:GLN:NE2	1:v:721:TYR:O	2.45	0.49
1:x:238:ARG:NH1	1:x:240:ILE:HD11	2.27	0.49
1:z:346:THR:HG22	1:z:647:ILE:HG12	1.93	0.49
1:7:702:THR:HG22	1:8:700:GLN:HB2	1.94	0.49
1:B:546:GLN:NE2	1:B:721:TYR:O	2.45	0.49
1:D:566:ILE:HG12	1:D:570:ASN:ND2	2.26	0.49
1:E:415:TYR:OH	1:E:642:HIS:O	2.30	0.49
1:G:242:THR:HG22	1:G:682:GLU:HG3	1.94	0.49
1:G:271:ASP:OD1	1:G:515:ASN:N	2.46	0.49
1:K:238:ARG:NH1	1:K:240:ILE:HD11	2.27	0.49
1:K:566:ILE:HG12	1:K:570:ASN:ND2	2.26	0.49
1:N:321:GLN:HE22	1:g:654:VAL:HG22	1.78	0.49
1:Q:271:ASP:OD1	1:Q:515:ASN:N	2.45	0.49
1:S:296:ARG:NH2	1:T:690:GLU:OE1	2.46	0.49
1:T:634:LEU:HD21	1:f:604:GLY:HA3	1.95	0.49
1:V:604:GLY:HA3	1:4:634:LEU:HD21	1.95	0.49
1:Z:271:ASP:OD1	1:Z:515:ASN:N	2.45	0.49
1:2:271:ASP:OD1	1:2:515:ASN:N	2.46	0.49
1:3:238:ARG:NH1	1:3:240:ILE:HD11	2.27	0.49
1:3:415:TYR:OH	1:3:642:HIS:O	2.30	0.49
1:3:654:VAL:HG22	1:m:321:GLN:HE22	1.77	0.49
1:4:250:PRO:HB3	1:b:658:PRO:HG2	1.95	0.49
1:a:566:ILE:HG12	1:a:570:ASN:ND2	2.26	0.49
1:b:566:ILE:HG12	1:b:570:ASN:ND2	2.26	0.49
1:d:261:SER:O	1:d:264:THR:OG1	2.26	0.49
1:f:658:PRO:HG2	1:h:250:PRO:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:415:TYR:OH	1:j:642:HIS:O	2.30	0.49
1:o:238:ARG:NH1	1:o:240:ILE:HD11	2.27	0.49
1:u:246:THR:HG23	1:u:371:VAL:HG22	1.94	0.49
1:x:415:TYR:OH	1:x:642:HIS:O	2.30	0.49
1:y:415:TYR:OH	1:y:642:HIS:O	2.30	0.49
1:y:566:ILE:HG12	1:y:570:ASN:ND2	2.26	0.49
1:z:694:ARG:HH21	1:z:696:ASN:ND2	2.11	0.49
1:8:238:ARG:NH1	1:8:240:ILE:HD11	2.27	0.49
1:A:321:GLN:HE22	1:E:654:VAL:HG22	1.77	0.48
1:G:321:GLN:HE22	1:W:654:VAL:HG22	1.77	0.48
1:G:415:TYR:OH	1:G:642:HIS:O	2.30	0.48
1:K:604:GLY:HA3	1:1:634:LEU:HD21	1.94	0.48
1:K:634:LEU:HD21	1:8:604:GLY:HA3	1.95	0.48
1:R:694:ARG:HH21	1:R:696:ASN:ND2	2.11	0.48
1:U:694:ARG:HH21	1:U:696:ASN:ND2	2.12	0.48
1:Z:415:TYR:OH	1:Z:642:HIS:O	2.30	0.48
1:Z:604:GLY:HA3	1:x:634:LEU:HD21	1.95	0.48
1:1:694:ARG:HH21	1:1:696:ASN:ND2	2.11	0.48
1:4:630:HIS:O	1:4:632:SER:N	2.43	0.48
1:a:271:ASP:OD1	1:a:515:ASN:N	2.46	0.48
1:c:271:ASP:OD1	1:c:515:ASN:N	2.46	0.48
1:d:346:THR:HG22	1:d:647:ILE:HG12	1.93	0.48
1:d:604:GLY:HA3	1:e:634:LEU:HD21	1.95	0.48
1:e:630:HIS:O	1:e:632:SER:N	2.43	0.48
1:h:415:TYR:OH	1:h:642:HIS:O	2.30	0.48
1:i:238:ARG:NH1	1:i:240:ILE:HD11	2.27	0.48
1:u:415:TYR:OH	1:u:642:HIS:O	2.30	0.48
1:w:238:ARG:NH1	1:w:240:ILE:HD11	2.27	0.48
1:7:415:TYR:OH	1:7:642:HIS:O	2.30	0.48
1:C:395:TYR:OH	1:M:735:ASN:ND2	2.44	0.48
1:D:238:ARG:NH1	1:D:240:ILE:HD11	2.27	0.48
1:E:246:THR:HG23	1:E:371:VAL:HG22	1.94	0.48
1:E:634:LEU:HD21	1:F:604:GLY:HA3	1.95	0.48
1:H:250:PRO:HB3	1:I:658:PRO:HG2	1.96	0.48
1:K:415:TYR:OH	1:K:642:HIS:O	2.30	0.48
1:L:242:THR:HG22	1:L:682:GLU:HG3	1.94	0.48
1:L:694:ARG:HH21	1:L:696:ASN:ND2	2.12	0.48
1:U:481:GLY:HA3	1:U:607:TRP:HB3	1.94	0.48
1:W:481:GLY:HA3	1:W:607:TRP:HB3	1.94	0.48
1:X:654:VAL:HG22	1:5:321:GLN:HE22	1.78	0.48
1:X:694:ARG:HH21	1:X:696:ASN:ND2	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:481:GLY:HA3	1:4:607:TRP:HB3	1.94	0.48
1:a:630:HIS:O	1:a:632:SER:N	2.43	0.48
1:d:238:ARG:NH1	1:d:240:ILE:HD11	2.27	0.48
1:f:694:ARG:HH21	1:f:696:ASN:ND2	2.11	0.48
1:g:694:ARG:HH21	1:g:696:ASN:ND2	2.12	0.48
1:j:321:GLN:HE22	1:k:654:VAL:HG22	1.77	0.48
1:k:604:GLY:HA3	1:l:634:LEU:HD21	1.95	0.48
1:l:481:GLY:HA3	1:l:607:TRP:HB3	1.94	0.48
1:m:242:THR:HG22	1:m:682:GLU:HG3	1.94	0.48
1:o:242:THR:HG22	1:o:682:GLU:HG3	1.94	0.48
1:o:654:VAL:HG22	1:y:321:GLN:HE22	1.78	0.48
1:o:694:ARG:HH21	1:o:696:ASN:ND2	2.11	0.48
1:p:481:GLY:HA3	1:p:607:TRP:HB3	1.94	0.48
1:r:271:ASP:OD1	1:r:515:ASN:N	2.46	0.48
1:r:415:TYR:OH	1:r:642:HIS:O	2.30	0.48
1:t:346:THR:HG22	1:t:647:ILE:HG12	1.93	0.48
1:t:735:ASN:ND2	1:u:395:TYR:OH	2.44	0.48
1:u:566:ILE:HG12	1:u:570:ASN:ND2	2.26	0.48
1:v:271:ASP:OD1	1:v:515:ASN:N	2.46	0.48
1:y:238:ARG:NH1	1:y:240:ILE:HD11	2.27	0.48
1:A:242:THR:HG22	1:A:682:GLU:HG3	1.94	0.48
1:B:481:GLY:HA3	1:B:607:TRP:HB3	1.94	0.48
1:C:634:LEU:HD21	1:M:604:GLY:HA3	1.94	0.48
1:D:271:ASP:OD1	1:D:515:ASN:N	2.46	0.48
1:F:261:SER:O	1:F:264:THR:OG1	2.26	0.48
1:F:634:LEU:HD21	1:Q:604:GLY:HA3	1.95	0.48
1:K:481:GLY:HA3	1:K:607:TRP:HB3	1.94	0.48
1:M:321:GLN:HE22	1:N:654:VAL:HG22	1.77	0.48
1:M:346:THR:HG22	1:M:647:ILE:HG12	1.93	0.48
1:O:481:GLY:HA3	1:O:607:TRP:HB3	1.94	0.48
1:O:630:HIS:O	1:O:632:SER:N	2.43	0.48
1:Q:415:TYR:OH	1:Q:642:HIS:O	2.30	0.48
1:R:415:TYR:OH	1:R:642:HIS:O	2.30	0.48
1:S:246:THR:HG23	1:S:371:VAL:HG22	1.94	0.48
1:S:481:GLY:HA3	1:S:607:TRP:HB3	1.94	0.48
1:S:700:GLN:HB2	1:T:702:THR:HG22	1.95	0.48
1:T:481:GLY:HA3	1:T:607:TRP:HB3	1.94	0.48
1:U:250:PRO:HB3	1:4:658:PRO:HG2	1.95	0.48
1:U:321:GLN:HE22	1:4:654:VAL:HG22	1.78	0.48
1:X:481:GLY:HA3	1:X:607:TRP:HB3	1.94	0.48
1:Y:242:THR:HG22	1:Y:682:GLU:HG3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:415:TYR:OH	1:Y:642:HIS:O	2.30	0.48
1:Z:654:VAL:HG22	1:1:321:GLN:HE22	1.77	0.48
1:3:481:GLY:HA3	1:3:607:TRP:HB3	1.94	0.48
1:4:694:ARG:HH21	1:4:696:ASN:ND2	2.11	0.48
1:5:242:THR:HG22	1:5:682:GLU:HG3	1.94	0.48
1:d:654:VAL:HG22	1:f:321:GLN:HE22	1.78	0.48
1:e:246:THR:HG23	1:e:371:VAL:HG22	1.94	0.48
1:g:481:GLY:HA3	1:g:607:TRP:HB3	1.94	0.48
1:i:694:ARG:HH21	1:i:696:ASN:ND2	2.11	0.48
1:j:238:ARG:NH1	1:j:240:ILE:HD11	2.27	0.48
1:k:238:ARG:NH1	1:k:240:ILE:HD11	2.27	0.48
1:k:242:THR:HG22	1:k:682:GLU:HG3	1.94	0.48
1:k:250:PRO:HB3	1:s:658:PRO:HG2	1.96	0.48
1:l:654:VAL:HG22	1:r:321:GLN:HE22	1.77	0.48
1:m:415:TYR:OH	1:m:642:HIS:O	2.30	0.48
1:m:435:LEU:HD21	1:m:736:LEU:HD22	1.93	0.48
1:n:321:GLN:HE22	1:z:654:VAL:HG22	1.77	0.48
1:p:261:SER:O	1:p:264:THR:OG1	2.26	0.48
1:w:228:TRP:CE3	1:8:404:MET:HE3	2.48	0.48
1:x:481:GLY:HA3	1:x:607:TRP:HB3	1.94	0.48
1:y:481:GLY:HA3	1:y:607:TRP:HB3	1.94	0.48
1:E:481:GLY:HA3	1:E:607:TRP:HB3	1.94	0.48
1:E:694:ARG:HH21	1:E:696:ASN:ND2	2.12	0.48
1:F:271:ASP:OD1	1:F:515:ASN:N	2.46	0.48
1:G:228:TRP:CE3	1:W:404:MET:HE3	2.49	0.48
1:H:242:THR:HG22	1:H:682:GLU:HG3	1.94	0.48
1:H:604:GLY:HA3	1:W:634:LEU:HD21	1.95	0.48
1:H:654:VAL:HG22	1:Z:321:GLN:HE22	1.77	0.48
1:I:246:THR:HG23	1:I:371:VAL:HG22	1.94	0.48
1:O:694:ARG:HH21	1:O:696:ASN:ND2	2.12	0.48
1:P:271:ASP:OD1	1:P:515:ASN:N	2.46	0.48
1:Q:246:THR:HG23	1:Q:371:VAL:HG22	1.94	0.48
1:R:242:THR:HG22	1:R:682:GLU:HG3	1.94	0.48
1:S:242:THR:HG22	1:S:682:GLU:HG3	1.94	0.48
1:S:604:GLY:HA3	1:U:634:LEU:HD21	1.95	0.48
1:T:242:THR:HG22	1:T:682:GLU:HG3	1.94	0.48
1:T:246:THR:HG23	1:T:371:VAL:HG22	1.94	0.48
1:U:630:HIS:O	1:U:632:SER:N	2.43	0.48
1:V:634:LEU:HD21	1:X:604:GLY:HA3	1.95	0.48
1:Z:238:ARG:NH1	1:Z:240:ILE:HD11	2.27	0.48
1:a:238:ARG:NH1	1:a:240:ILE:HD11	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:415:TYR:OH	1:c:642:HIS:O	2.30	0.48
1:c:604:GLY:HA3	1:d:634:LEU:HD21	1.95	0.48
1:f:242:THR:HG22	1:f:682:GLU:HG3	1.94	0.48
1:i:228:TRP:CE3	1:7:404:MET:HE3	2.48	0.48
1:i:604:GLY:HA3	1:j:634:LEU:HD21	1.95	0.48
1:l:404:MET:HE3	1:r:228:TRP:CE3	2.49	0.48
1:n:415:TYR:OH	1:n:642:HIS:O	2.30	0.48
1:o:321:GLN:HE22	1:v:654:VAL:HG22	1.77	0.48
1:o:415:TYR:OH	1:o:642:HIS:O	2.30	0.48
1:o:735:ASN:ND2	1:p:395:TYR:OH	2.42	0.48
1:q:242:THR:HG22	1:q:682:GLU:HG3	1.94	0.48
1:s:246:THR:HG23	1:s:371:VAL:HG22	1.94	0.48
1:t:604:GLY:HA3	1:u:634:LEU:HD21	1.94	0.48
1:u:481:GLY:HA3	1:u:607:TRP:HB3	1.94	0.48
1:w:694:ARG:HH21	1:w:696:ASN:ND2	2.11	0.48
1:z:415:TYR:OH	1:z:642:HIS:O	2.30	0.48
1:7:481:GLY:HA3	1:7:607:TRP:HB3	1.94	0.48
1:7:694:ARG:HH21	1:7:696:ASN:ND2	2.12	0.48
1:8:415:TYR:OH	1:8:642:HIS:O	2.30	0.48
1:8:694:ARG:HH21	1:8:696:ASN:ND2	2.11	0.48
1:B:658:PRO:HG2	1:C:250:PRO:HB3	1.96	0.48
1:C:481:GLY:HA3	1:C:607:TRP:HB3	1.94	0.48
1:C:566:ILE:HG12	1:C:570:ASN:ND2	2.26	0.48
1:E:242:THR:HG22	1:E:682:GLU:HG3	1.94	0.48
1:F:238:ARG:NH1	1:F:240:ILE:HD11	2.27	0.48
1:H:228:TRP:CE3	1:I:404:MET:HE3	2.49	0.48
1:H:238:ARG:NH1	1:H:240:ILE:HD11	2.27	0.48
1:H:309:ARG:NH2	1:H:686:GLU:OE1	2.30	0.48
1:H:630:HIS:O	1:H:632:SER:N	2.43	0.48
1:J:415:TYR:OH	1:J:642:HIS:O	2.30	0.48
1:K:546:GLN:NE2	1:K:721:TYR:O	2.45	0.48
1:L:321:GLN:HE22	1:2:654:VAL:HG22	1.77	0.48
1:L:415:TYR:OH	1:L:642:HIS:O	2.30	0.48
1:M:246:THR:HG23	1:M:371:VAL:HG22	1.94	0.48
1:M:481:GLY:HA3	1:M:607:TRP:HB3	1.94	0.48
1:Q:238:ARG:NH1	1:Q:240:ILE:HD11	2.27	0.48
1:S:694:ARG:HH21	1:S:696:ASN:ND2	2.11	0.48
1:T:658:PRO:HG2	1:c:250:PRO:HB3	1.96	0.48
1:T:694:ARG:HH21	1:T:696:ASN:ND2	2.12	0.48
1:V:481:GLY:HA3	1:V:607:TRP:HB3	1.94	0.48
1:X:271:ASP:OD1	1:X:515:ASN:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:228:TRP:CE3	1:x:404:MET:HE3	2.49	0.48
1:Y:238:ARG:NH1	1:Y:240:ILE:HD11	2.27	0.48
1:1:415:TYR:OH	1:1:642:HIS:O	2.30	0.48
1:1:481:GLY:HA3	1:1:607:TRP:HB3	1.94	0.48
1:3:404:MET:HE3	1:m:228:TRP:CE3	2.49	0.48
1:4:566:ILE:HG12	1:4:570:ASN:ND2	2.26	0.48
1:5:311:LYS:CE	1:5:686:GLU:CB	2.86	0.48
1:5:654:VAL:HG22	1:t:321:GLN:HE22	1.77	0.48
1:b:321:GLN:HE22	1:c:654:VAL:HG22	1.77	0.48
1:d:481:GLY:HA3	1:d:607:TRP:HB3	1.94	0.48
1:e:694:ARG:HH21	1:e:696:ASN:ND2	2.12	0.48
1:g:604:GLY:HA3	1:h:634:LEU:HD21	1.95	0.48
1:h:481:GLY:HA3	1:h:607:TRP:HB3	1.94	0.48
1:j:654:VAL:HG22	1:z:321:GLN:HE22	1.77	0.48
1:j:694:ARG:HH21	1:j:696:ASN:ND2	2.12	0.48
1:m:238:ARG:NH1	1:m:240:ILE:HD11	2.27	0.48
1:n:250:PRO:HB3	1:z:658:PRO:HG2	1.95	0.48
1:t:271:ASP:OD1	1:t:515:ASN:N	2.46	0.48
1:t:694:ARG:HH21	1:t:696:ASN:ND2	2.12	0.48
1:z:604:GLY:HA3	1:7:634:LEU:HD21	1.95	0.48
1:8:481:GLY:HA3	1:8:607:TRP:HB3	1.94	0.48
1:A:481:GLY:HA3	1:A:607:TRP:HB3	1.94	0.48
1:A:658:PRO:HG2	1:B:250:PRO:HB3	1.95	0.48
1:A:700:GLN:HB2	1:F:702:THR:HG22	1.93	0.48
1:F:481:GLY:HA3	1:F:607:TRP:HB3	1.94	0.48
1:F:694:ARG:HH21	1:F:696:ASN:ND2	2.11	0.48
1:I:694:ARG:HH21	1:I:696:ASN:ND2	2.11	0.48
1:J:250:PRO:HB3	1:1:658:PRO:HG2	1.96	0.48
1:J:321:GLN:HE22	1:1:654:VAL:HG22	1.78	0.48
1:J:694:ARG:HH21	1:J:696:ASN:ND2	2.12	0.48
1:K:321:GLN:HE22	1:L:654:VAL:HG22	1.78	0.48
1:M:694:ARG:HH21	1:M:696:ASN:ND2	2.12	0.48
1:N:242:THR:HG22	1:N:682:GLU:HG3	1.94	0.48
1:O:566:ILE:HG12	1:O:570:ASN:ND2	2.26	0.48
1:P:321:GLN:HE22	1:Q:654:VAL:HG22	1.77	0.48
1:R:481:GLY:HA3	1:R:607:TRP:HB3	1.94	0.48
1:R:604:GLY:HA3	1:S:634:LEU:HD21	1.95	0.48
1:R:658:PRO:HG2	1:V:250:PRO:HB3	1.95	0.48
1:V:242:THR:HG22	1:V:682:GLU:HG3	1.94	0.48
1:X:634:LEU:HD21	1:4:604:GLY:HA3	1.95	0.48
1:Z:634:LEU:HD21	1:w:604:GLY:HA3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:694:ARG:HH21	1:Z:696:ASN:ND2	2.12	0.48
1:1:246:THR:HG23	1:1:371:VAL:HG22	1.94	0.48
1:1:604:GLY:HA3	1:8:634:LEU:HD21	1.94	0.48
1:5:604:GLY:HA3	1:b:634:LEU:HD21	1.95	0.48
1:b:271:ASP:OD1	1:b:515:ASN:N	2.46	0.48
1:b:630:HIS:O	1:b:632:SER:N	2.43	0.48
1:c:246:THR:HG23	1:c:371:VAL:HG22	1.94	0.48
1:d:271:ASP:OD1	1:d:515:ASN:N	2.46	0.48
1:d:694:ARG:HH21	1:d:696:ASN:ND2	2.11	0.48
1:e:242:THR:HG22	1:e:682:GLU:HG3	1.94	0.48
1:e:481:GLY:HA3	1:e:607:TRP:HB3	1.94	0.48
1:f:415:TYR:OH	1:f:642:HIS:O	2.30	0.48
1:f:481:GLY:HA3	1:f:607:TRP:HB3	1.94	0.48
1:h:242:THR:HG22	1:h:682:GLU:HG3	1.94	0.48
1:k:228:TRP:CE3	1:s:404:MET:HE3	2.49	0.48
1:k:630:HIS:O	1:k:632:SER:N	2.43	0.48
1:m:481:GLY:HA3	1:m:607:TRP:HB3	1.94	0.48
1:n:694:ARG:HH21	1:n:696:ASN:ND2	2.11	0.48
1:p:228:TRP:CE3	1:q:404:MET:HE3	2.49	0.48
1:p:658:PRO:HG2	1:u:250:PRO:HB3	1.96	0.48
1:q:604:GLY:HA3	1:r:634:LEU:HD21	1.95	0.48
1:t:481:GLY:HA3	1:t:607:TRP:HB3	1.94	0.48
1:y:246:THR:HG23	1:y:371:VAL:HG22	1.94	0.48
1:y:694:ARG:HH21	1:y:696:ASN:ND2	2.11	0.48
1:z:481:GLY:HA3	1:z:607:TRP:HB3	1.94	0.48
1:B:261:SER:O	1:B:264:THR:OG1	2.26	0.48
1:B:395:TYR:OH	1:L:735:ASN:ND2	2.42	0.48
1:K:246:THR:HG23	1:K:371:VAL:HG22	1.94	0.48
1:K:694:ARG:HH21	1:K:696:ASN:ND2	2.11	0.48
1:P:546:GLN:NE2	1:P:721:TYR:O	2.45	0.48
1:P:630:HIS:O	1:P:632:SER:N	2.43	0.48
1:T:250:PRO:HB3	1:U:658:PRO:HG2	1.96	0.48
1:U:528:LYS:HG2	1:U:529:GLU:OE1	2.14	0.48
1:W:434:ARG:HA	1:W:436:MET:HE3	1.96	0.48
1:W:694:ARG:HH21	1:W:696:ASN:ND2	2.11	0.48
1:X:246:THR:HG23	1:X:371:VAL:HG22	1.94	0.48
1:Y:481:GLY:HA3	1:Y:607:TRP:HB3	1.94	0.48
1:2:694:ARG:HH21	1:2:696:ASN:ND2	2.11	0.48
1:4:434:ARG:HA	1:4:436:MET:HE3	1.96	0.48
1:b:546:GLN:NE2	1:b:721:TYR:O	2.45	0.48
1:c:238:ARG:NH1	1:c:240:ILE:HD11	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:261:SER:O	1:c:264:THR:OG1	2.26	0.48
1:c:481:GLY:HA3	1:c:607:TRP:HB3	1.94	0.48
1:d:702:THR:HG22	1:q:700:GLN:HB2	1.93	0.48
1:g:261:SER:O	1:g:264:THR:OG1	2.26	0.48
1:g:271:ASP:OD1	1:g:515:ASN:N	2.46	0.48
1:i:246:THR:HG23	1:i:371:VAL:HG22	1.94	0.48
1:i:528:LYS:HG2	1:i:529:GLU:OE1	2.14	0.48
1:l:434:ARG:HA	1:l:436:MET:HE3	1.96	0.48
1:l:694:ARG:HH21	1:l:696:ASN:ND2	2.11	0.48
1:q:481:GLY:HA3	1:q:607:TRP:HB3	1.94	0.48
1:s:694:ARG:HH21	1:s:696:ASN:ND2	2.11	0.48
1:t:246:THR:HG23	1:t:371:VAL:HG22	1.94	0.48
1:v:694:ARG:HH21	1:v:696:ASN:ND2	2.11	0.48
1:w:246:THR:HG23	1:w:371:VAL:HG22	1.94	0.48
1:w:528:LYS:HG2	1:w:529:GLU:OE1	2.14	0.48
1:z:246:THR:HG23	1:z:371:VAL:HG22	1.94	0.48
1:A:404:MET:HE3	1:B:228:TRP:CE3	2.49	0.48
1:A:434:ARG:HA	1:A:436:MET:HE3	1.96	0.48
1:A:528:LYS:HG2	1:A:529:GLU:OE1	2.14	0.48
1:A:604:GLY:HA3	1:G:634:LEU:HD21	1.95	0.48
1:B:694:ARG:HH21	1:B:696:ASN:ND2	2.12	0.48
1:D:694:ARG:HH21	1:D:696:ASN:ND2	2.12	0.48
1:G:481:GLY:HA3	1:G:607:TRP:HB3	1.94	0.48
1:I:503:TRP:HZ3	1:I:517:LEU:HB2	1.79	0.48
1:J:311:LYS:CE	1:J:686:GLU:CB	2.86	0.48
1:J:566:ILE:HG12	1:J:570:ASN:ND2	2.26	0.48
1:N:604:GLY:HA3	1:P:634:LEU:HD21	1.95	0.48
1:O:434:ARG:HA	1:O:436:MET:HE3	1.96	0.48
1:Q:481:GLY:HA3	1:Q:607:TRP:HB3	1.94	0.48
1:X:404:MET:HE3	1:5:228:TRP:CE3	2.49	0.48
1:Z:658:PRO:HG2	1:1:250:PRO:HB3	1.96	0.48
1:1:271:ASP:OD1	1:1:515:ASN:N	2.46	0.48
1:a:694:ARG:HH21	1:a:696:ASN:ND2	2.12	0.48
1:k:309:ARG:NH2	1:k:686:GLU:OE1	2.30	0.48
1:m:546:GLN:NE2	1:m:721:TYR:O	2.45	0.48
1:p:250:PRO:HB3	1:q:658:PRO:HG2	1.95	0.48
1:q:528:LYS:HG2	1:q:529:GLU:OE1	2.14	0.48
1:r:481:GLY:HA3	1:r:607:TRP:HB3	1.94	0.48
1:s:503:TRP:HZ3	1:s:517:LEU:HB2	1.79	0.48
1:y:604:GLY:HA3	1:z:634:LEU:HD21	1.95	0.48
1:z:528:LYS:HG2	1:z:529:GLU:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:238:ARG:NH1	1:C:240:ILE:HD11	2.27	0.48
1:C:694:ARG:HH21	1:C:696:ASN:ND2	2.12	0.48
1:D:434:ARG:HA	1:D:436:MET:HE3	1.96	0.48
1:E:434:ARG:HA	1:E:436:MET:HE3	1.96	0.48
1:K:271:ASP:OD1	1:K:515:ASN:N	2.46	0.48
1:N:228:TRP:CE3	1:g:404:MET:HE3	2.49	0.48
1:N:250:PRO:HB3	1:g:658:PRO:HG2	1.96	0.48
1:N:311:LYS:CE	1:N:686:GLU:CB	2.86	0.48
1:N:694:ARG:HH21	1:N:696:ASN:ND2	2.12	0.48
1:O:604:GLY:HA3	1:g:634:LEU:HD21	1.95	0.48
1:P:528:LYS:HG2	1:P:529:GLU:OE1	2.14	0.48
1:P:694:ARG:HH21	1:P:696:ASN:ND2	2.11	0.48
1:R:528:LYS:HG2	1:R:529:GLU:OE1	2.14	0.48
1:Y:528:LYS:HG2	1:Y:529:GLU:OE1	2.14	0.48
1:Y:546:GLN:NE2	1:Y:721:TYR:O	2.45	0.48
1:1:528:LYS:HG2	1:1:529:GLU:OE1	2.14	0.48
1:3:434:ARG:HA	1:3:436:MET:HE3	1.96	0.48
1:5:528:LYS:HG2	1:5:529:GLU:OE1	2.14	0.48
1:5:694:ARG:HH21	1:5:696:ASN:ND2	2.12	0.48
1:a:434:ARG:HA	1:a:436:MET:HE3	1.96	0.48
1:b:528:LYS:HG2	1:b:529:GLU:OE1	2.14	0.48
1:b:694:ARG:HH21	1:b:696:ASN:ND2	2.11	0.48
1:f:528:LYS:HG2	1:f:529:GLU:OE1	2.14	0.48
1:j:658:PRO:HG2	1:z:250:PRO:HB3	1.96	0.48
1:l:384:ASP:OD2	1:r:707:LYS:NZ	2.36	0.48
1:l:528:LYS:HG2	1:l:529:GLU:OE1	2.14	0.48
1:m:528:LYS:HG2	1:m:529:GLU:OE1	2.14	0.48
1:n:566:ILE:HG12	1:n:570:ASN:ND2	2.26	0.48
1:p:694:ARG:HH21	1:p:696:ASN:ND2	2.12	0.48
1:q:434:ARG:HA	1:q:436:MET:HE3	1.96	0.48
1:r:694:ARG:HH21	1:r:696:ASN:ND2	2.11	0.48
1:u:238:ARG:NH1	1:u:240:ILE:HD11	2.27	0.48
1:u:546:GLN:NE2	1:u:721:TYR:O	2.45	0.48
1:u:694:ARG:HH21	1:u:696:ASN:ND2	2.12	0.48
1:x:434:ARG:HA	1:x:436:MET:HE3	1.96	0.48
1:y:434:ARG:HA	1:y:436:MET:HE3	1.96	0.48
1:z:271:ASP:OD1	1:z:515:ASN:N	2.46	0.48
1:B:528:LYS:HG2	1:B:529:GLU:OE1	2.14	0.48
1:D:528:LYS:HG2	1:D:529:GLU:OE1	2.14	0.48
1:F:658:PRO:HG2	1:R:250:PRO:HB3	1.95	0.48
1:H:528:LYS:HG2	1:H:529:GLU:OE1	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:694:ARG:HH21	1:H:696:ASN:ND2	2.11	0.48
1:K:434:ARG:HA	1:K:436:MET:HE3	1.96	0.48
1:K:658:PRO:HG2	1:7:250:PRO:HB3	1.95	0.48
1:N:528:LYS:HG2	1:N:529:GLU:OE1	2.14	0.48
1:N:546:GLN:NE2	1:N:721:TYR:O	2.45	0.48
1:Q:250:PRO:HB3	1:S:658:PRO:HG2	1.96	0.48
1:Q:261:SER:O	1:Q:264:THR:OG1	2.26	0.48
1:S:528:LYS:HG2	1:S:529:GLU:OE1	2.14	0.48
1:U:238:ARG:NH1	1:U:240:ILE:HD11	2.27	0.48
1:V:434:ARG:HA	1:V:436:MET:HE3	1.96	0.48
1:W:271:ASP:OD1	1:W:515:ASN:N	2.46	0.48
1:W:528:LYS:HG2	1:W:529:GLU:OE1	2.14	0.48
1:X:261:SER:O	1:X:264:THR:OG1	2.26	0.48
1:X:658:PRO:HG2	1:5:250:PRO:HB3	1.96	0.48
1:4:503:TRP:HZ3	1:4:517:LEU:HB2	1.79	0.48
1:5:271:ASP:OD1	1:5:515:ASN:N	2.46	0.48
1:5:546:GLN:NE2	1:5:721:TYR:O	2.45	0.48
1:c:350:TYR:OH	1:c:643:PRO:O	2.32	0.48
1:e:434:ARG:HA	1:e:436:MET:HE3	1.96	0.48
1:h:528:LYS:HG2	1:h:529:GLU:OE1	2.14	0.48
1:k:528:LYS:HG2	1:k:529:GLU:OE1	2.14	0.48
1:k:694:ARG:HH21	1:k:696:ASN:ND2	2.11	0.48
1:o:228:TRP:CE3	1:v:404:MET:HE3	2.49	0.48
1:s:712:GLU:HB3	1:s:724:PRO:HG3	1.96	0.48
1:t:435:LEU:HD21	1:t:736:LEU:HD22	1.93	0.48
1:t:566:ILE:HG12	1:t:570:ASN:ND2	2.26	0.48
1:v:528:LYS:HG2	1:v:529:GLU:OE1	2.14	0.48
1:x:528:LYS:HG2	1:x:529:GLU:OE1	2.14	0.48
1:y:271:ASP:OD1	1:y:515:ASN:N	2.46	0.48
1:7:434:ARG:HA	1:7:436:MET:HE3	1.96	0.48
1:8:630:HIS:O	1:8:632:SER:N	2.43	0.48
1:C:404:MET:HE3	1:D:228:TRP:CE3	2.49	0.47
1:C:546:GLN:NE2	1:C:721:TYR:O	2.45	0.47
1:F:712:GLU:HB3	1:F:724:PRO:HG3	1.96	0.47
1:G:694:ARG:HH21	1:G:696:ASN:ND2	2.11	0.47
1:I:630:HIS:O	1:I:632:SER:N	2.43	0.47
1:I:712:GLU:HB3	1:I:724:PRO:HG3	1.96	0.47
1:K:485:ARG:HD3	1:8:581:ALA:O	2.13	0.47
1:L:228:TRP:CE3	1:2:404:MET:HE3	2.49	0.47
1:M:435:LEU:HD21	1:M:736:LEU:HD22	1.93	0.47
1:M:566:ILE:HG12	1:M:570:ASN:ND2	2.26	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:712:GLU:HB3	1:N:724:PRO:HG3	1.96	0.47
1:O:415:TYR:OH	1:O:642:HIS:O	2.30	0.47
1:O:503:TRP:HZ3	1:O:517:LEU:HB2	1.79	0.47
1:P:503:TRP:HZ3	1:P:517:LEU:HB2	1.79	0.47
1:T:528:LYS:HG2	1:T:529:GLU:OE1	2.14	0.47
1:T:712:GLU:HB3	1:T:724:PRO:HG3	1.97	0.47
1:V:503:TRP:HZ3	1:V:517:LEU:HB2	1.79	0.47
1:V:528:LYS:HG2	1:V:529:GLU:OE1	2.14	0.47
1:2:528:LYS:HG2	1:2:529:GLU:OE1	2.14	0.47
1:3:528:LYS:HG2	1:3:529:GLU:OE1	2.14	0.47
1:4:415:TYR:OH	1:4:642:HIS:O	2.30	0.47
1:4:528:LYS:HG2	1:4:529:GLU:OE1	2.14	0.47
1:a:228:TRP:CE3	1:u:404:MET:HE3	2.49	0.47
1:a:528:LYS:HG2	1:a:529:GLU:OE1	2.14	0.47
1:a:658:PRO:HG2	1:e:250:PRO:HB3	1.96	0.47
1:b:503:TRP:HZ3	1:b:517:LEU:HB2	1.79	0.47
1:d:712:GLU:HB3	1:d:724:PRO:HG3	1.96	0.47
1:g:238:ARG:NH1	1:g:240:ILE:HD11	2.27	0.47
1:g:246:THR:HG23	1:g:371:VAL:HG22	1.94	0.47
1:h:434:ARG:HA	1:h:436:MET:HE3	1.96	0.47
1:n:311:LYS:CE	1:n:686:GLU:CB	2.86	0.47
1:o:404:MET:HE3	1:y:228:TRP:CE3	2.49	0.47
1:p:528:LYS:HG2	1:p:529:GLU:OE1	2.14	0.47
1:t:630:HIS:O	1:t:632:SER:N	2.43	0.47
1:v:434:ARG:HA	1:v:436:MET:HE3	1.96	0.47
1:w:271:ASP:OD1	1:w:515:ASN:N	2.46	0.47
1:B:565:GLU:HG3	1:J:391:ARG:NH2	2.30	0.47
1:C:503:TRP:HZ3	1:C:517:LEU:HB2	1.79	0.47
1:D:658:PRO:HG2	1:E:250:PRO:HB3	1.96	0.47
1:H:658:PRO:HG2	1:Z:250:PRO:HB3	1.95	0.47
1:K:228:TRP:CE3	1:L:404:MET:HE3	2.49	0.47
1:L:546:GLN:NE2	1:L:721:TYR:O	2.45	0.47
1:N:271:ASP:OD1	1:N:515:ASN:N	2.46	0.47
1:N:503:TRP:HZ3	1:N:517:LEU:HB2	1.79	0.47
1:O:261:SER:O	1:O:264:THR:OG1	2.26	0.47
1:O:528:LYS:HG2	1:O:529:GLU:OE1	2.14	0.47
1:Q:694:ARG:HH21	1:Q:696:ASN:ND2	2.11	0.47
1:S:712:GLU:HB3	1:S:724:PRO:HG3	1.97	0.47
1:X:228:TRP:CE3	1:Y:404:MET:HE3	2.49	0.47
1:Z:242:THR:HG22	1:Z:682:GLU:HG3	1.94	0.47
1:Z:712:GLU:HB3	1:Z:724:PRO:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:434:ARG:HA	1:2:436:MET:HE3	1.96	0.47
1:5:503:TRP:HZ3	1:5:517:LEU:HB2	1.79	0.47
1:5:712:GLU:HB3	1:5:724:PRO:HG3	1.96	0.47
1:a:296:ARG:NH2	1:t:690:GLU:OE1	2.47	0.47
1:f:503:TRP:HZ3	1:f:517:LEU:HB2	1.79	0.47
1:h:503:TRP:HZ3	1:h:517:LEU:HB2	1.79	0.47
1:i:271:ASP:OD1	1:i:515:ASN:N	2.46	0.47
1:j:242:THR:HG22	1:j:682:GLU:HG3	1.94	0.47
1:j:712:GLU:HB3	1:j:724:PRO:HG3	1.97	0.47
1:l:271:ASP:OD1	1:l:515:ASN:N	2.46	0.47
1:n:391:ARG:NH2	1:p:565:GLU:HG3	2.30	0.47
1:o:434:ARG:HA	1:o:436:MET:HE3	1.96	0.47
1:u:503:TRP:HZ3	1:u:517:LEU:HB2	1.79	0.47
1:y:565:GLU:HG3	1:z:391:ARG:NH2	2.29	0.47
1:7:630:HIS:O	1:7:632:SER:N	2.43	0.47
1:8:434:ARG:HA	1:8:436:MET:HE3	1.96	0.47
1:C:434:ARG:HA	1:C:436:MET:HE3	1.96	0.47
1:C:528:LYS:HG2	1:C:529:GLU:OE1	2.14	0.47
1:D:296:ARG:NH2	1:M:690:GLU:OE1	2.47	0.47
1:G:250:PRO:HB3	1:W:658:PRO:HG2	1.96	0.47
1:I:250:PRO:HB3	1:J:658:PRO:HG2	1.96	0.47
1:I:434:ARG:HA	1:I:436:MET:HE3	1.96	0.47
1:M:630:HIS:O	1:M:632:SER:N	2.43	0.47
1:X:238:ARG:NH1	1:X:240:ILE:HD11	2.27	0.47
1:Y:503:TRP:HZ3	1:Y:517:LEU:HB2	1.79	0.47
1:Y:712:GLU:HB3	1:Y:724:PRO:HG3	1.97	0.47
1:3:503:TRP:HZ3	1:3:517:LEU:HB2	1.79	0.47
1:4:261:SER:O	1:4:264:THR:OG1	2.26	0.47
1:c:694:ARG:HH21	1:c:696:ASN:ND2	2.12	0.47
1:g:228:TRP:CE3	1:m:404:MET:HE3	2.49	0.47
1:i:503:TRP:HZ3	1:i:517:LEU:HB2	1.79	0.47
1:j:250:PRO:HB3	1:k:658:PRO:HG2	1.96	0.47
1:m:712:GLU:HB3	1:m:724:PRO:HG3	1.97	0.47
1:n:658:PRO:HG2	1:s:250:PRO:HB3	1.96	0.47
1:o:384:ASP:OD2	1:y:707:LYS:NZ	2.36	0.47
1:o:546:GLN:NE2	1:o:721:TYR:O	2.45	0.47
1:q:415:TYR:OH	1:q:642:HIS:O	2.30	0.47
1:s:434:ARG:HA	1:s:436:MET:HE3	1.96	0.47
1:w:503:TRP:HZ3	1:w:517:LEU:HB2	1.79	0.47
1:y:528:LYS:HG2	1:y:529:GLU:OE1	2.14	0.47
1:z:546:GLN:NE2	1:z:721:TYR:O	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:261:SER:O	1:A:264:THR:OG1	2.26	0.47
1:A:415:TYR:OH	1:A:642:HIS:O	2.30	0.47
1:E:391:ARG:NH2	1:F:565:GLU:HG3	2.30	0.47
1:E:398:GLU:OE1	1:E:650:LYS:NZ	2.44	0.47
1:G:528:LYS:HG2	1:G:529:GLU:OE1	2.14	0.47
1:G:712:GLU:HB3	1:G:724:PRO:HG3	1.97	0.47
1:J:434:ARG:HA	1:J:436:MET:HE3	1.96	0.47
1:K:528:LYS:HG2	1:K:529:GLU:OE1	2.14	0.47
1:L:434:ARG:HA	1:L:436:MET:HE3	1.96	0.47
1:R:503:TRP:HZ3	1:R:517:LEU:HB2	1.79	0.47
1:S:434:ARG:HA	1:S:436:MET:HE3	1.96	0.47
1:V:391:ARG:NH2	1:X:565:GLU:HG3	2.30	0.47
1:Y:630:HIS:O	1:Y:632:SER:N	2.43	0.47
1:3:712:GLU:HB3	1:3:724:PRO:HG3	1.96	0.47
1:b:261:SER:O	1:b:264:THR:OG1	2.26	0.47
1:j:528:LYS:HG2	1:j:529:GLU:OE1	2.14	0.47
1:k:261:SER:O	1:k:264:THR:OG1	2.26	0.47
1:l:503:TRP:HZ3	1:l:517:LEU:HB2	1.79	0.47
1:l:658:PRO:HG2	1:r:250:PRO:HB3	1.96	0.47
1:m:503:TRP:HZ3	1:m:517:LEU:HB2	1.79	0.47
1:m:630:HIS:O	1:m:632:SER:N	2.43	0.47
1:r:528:LYS:HG2	1:r:529:GLU:OE1	2.14	0.47
1:r:565:GLU:HG3	1:s:391:ARG:NH2	2.30	0.47
1:r:604:GLY:HA3	1:s:634:LEU:HD21	1.95	0.47
1:r:712:GLU:HB3	1:r:724:PRO:HG3	1.97	0.47
1:s:630:HIS:O	1:s:632:SER:N	2.43	0.47
1:u:434:ARG:HA	1:u:436:MET:HE3	1.96	0.47
1:u:528:LYS:HG2	1:u:529:GLU:OE1	2.14	0.47
1:w:250:PRO:HB3	1:8:658:PRO:HG2	1.95	0.47
1:z:565:GLU:HG3	1:7:391:ARG:NH2	2.30	0.47
1:B:604:GLY:HA3	1:J:634:LEU:HD21	1.95	0.47
1:G:565:GLU:HG3	1:I:391:ARG:NH2	2.30	0.47
1:H:404:MET:HE3	1:Z:228:TRP:CE3	2.49	0.47
1:L:503:TRP:HZ3	1:L:517:LEU:HB2	1.79	0.47
1:M:395:TYR:OH	1:2:735:ASN:ND2	2.42	0.47
1:T:434:ARG:HA	1:T:436:MET:HE3	1.96	0.47
1:V:565:GLU:HG3	1:4:391:ARG:NH2	2.30	0.47
1:W:503:TRP:HZ3	1:W:517:LEU:HB2	1.79	0.47
1:X:358:SER:HB2	1:X:360:HIS:CD2	2.50	0.47
1:X:434:ARG:HA	1:X:436:MET:HE3	1.96	0.47
1:Y:250:PRO:HB3	1:x:658:PRO:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:358:SER:HB2	1:Y:360:HIS:CD2	2.50	0.47
1:Z:528:LYS:HG2	1:Z:529:GLU:OE1	2.14	0.47
1:1:309:ARG:NH2	1:1:686:GLU:OE1	2.31	0.47
1:1:358:SER:HB2	1:1:360:HIS:CD2	2.50	0.47
1:1:546:GLN:NE2	1:1:721:TYR:O	2.45	0.47
1:3:358:SER:HB2	1:3:360:HIS:CD2	2.50	0.47
1:c:311:LYS:CE	1:c:686:GLU:CB	2.86	0.47
1:d:565:GLU:HG3	1:e:391:ARG:NH2	2.30	0.47
1:g:565:GLU:HG3	1:h:391:ARG:NH2	2.30	0.47
1:m:358:SER:HB2	1:m:360:HIS:CD2	2.50	0.47
1:n:434:ARG:HA	1:n:436:MET:HE3	1.96	0.47
1:o:528:LYS:HG2	1:o:529:GLU:OE1	2.14	0.47
1:t:395:TYR:OH	1:v:735:ASN:ND2	2.42	0.47
1:w:391:ARG:NH2	1:x:565:GLU:HG3	2.30	0.47
1:x:358:SER:HB2	1:x:360:HIS:CD2	2.50	0.47
1:x:503:TRP:HZ3	1:x:517:LEU:HB2	1.79	0.47
1:x:712:GLU:HB3	1:x:724:PRO:HG3	1.96	0.47
1:y:404:MET:HE3	1:8:228:TRP:CE3	2.49	0.47
1:z:358:SER:HB2	1:z:360:HIS:CD2	2.50	0.47
1:7:528:LYS:HG2	1:7:529:GLU:OE1	2.14	0.47
1:8:528:LYS:HG2	1:8:529:GLU:OE1	2.14	0.47
1:A:250:PRO:HB3	1:E:658:PRO:HG2	1.95	0.47
1:A:503:TRP:HZ3	1:A:517:LEU:HB2	1.79	0.47
1:B:630:HIS:O	1:B:632:SER:N	2.43	0.47
1:B:712:GLU:HB3	1:B:724:PRO:HG3	1.96	0.47
1:E:528:LYS:HG2	1:E:529:GLU:OE1	2.14	0.47
1:G:503:TRP:HZ3	1:G:517:LEU:HB2	1.79	0.47
1:G:604:GLY:HA3	1:I:634:LEU:HD21	1.95	0.47
1:H:261:SER:O	1:H:264:THR:OG1	2.26	0.47
1:H:358:SER:HB2	1:H:360:HIS:CD2	2.50	0.47
1:K:565:GLU:HG3	1:1:391:ARG:NH2	2.30	0.47
1:L:250:PRO:HB3	1:2:658:PRO:HG2	1.95	0.47
1:L:528:LYS:HG2	1:L:529:GLU:OE1	2.14	0.47
1:N:565:GLU:HG3	1:P:391:ARG:NH2	2.29	0.47
1:O:358:SER:HB2	1:O:360:HIS:CD2	2.50	0.47
1:P:261:SER:O	1:P:264:THR:OG1	2.26	0.47
1:S:565:GLU:HG3	1:U:391:ARG:NH2	2.29	0.47
1:U:358:SER:HB2	1:U:360:HIS:CD2	2.50	0.47
1:X:350:TYR:OH	1:X:643:PRO:O	2.32	0.47
1:Y:694:ARG:HH21	1:Y:696:ASN:ND2	2.11	0.47
1:4:358:SER:HB2	1:4:360:HIS:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:358:SER:HB2	1:d:360:HIS:CD2	2.50	0.47
1:e:271:ASP:OD1	1:e:515:ASN:N	2.46	0.47
1:e:658:PRO:HG2	1:q:250:PRO:HB3	1.95	0.47
1:g:350:TYR:OH	1:g:643:PRO:O	2.32	0.47
1:g:358:SER:HB2	1:g:360:HIS:CD2	2.50	0.47
1:j:228:TRP:CE3	1:k:404:MET:HE3	2.49	0.47
1:k:358:SER:HB2	1:k:360:HIS:CD2	2.50	0.47
1:m:694:ARG:HH21	1:m:696:ASN:ND2	2.11	0.47
1:n:634:LEU:HD21	1:p:604:GLY:HA3	1.95	0.47
1:o:503:TRP:HZ3	1:o:517:LEU:HB2	1.79	0.47
1:p:712:GLU:HB3	1:p:724:PRO:HG3	1.96	0.47
1:q:261:SER:O	1:q:264:THR:OG1	2.26	0.47
1:q:503:TRP:HZ3	1:q:517:LEU:HB2	1.79	0.47
1:r:503:TRP:HZ3	1:r:517:LEU:HB2	1.79	0.47
1:t:528:LYS:HG2	1:t:529:GLU:OE1	2.14	0.47
1:v:228:TRP:CE3	1:w:404:MET:HE3	2.49	0.47
1:7:358:SER:HB2	1:7:360:HIS:CD2	2.50	0.47
1:A:565:GLU:HG3	1:G:391:ARG:NH2	2.30	0.47
1:A:712:GLU:HB3	1:A:724:PRO:HG3	1.97	0.47
1:B:358:SER:HB2	1:B:360:HIS:CD2	2.50	0.47
1:B:391:ARG:NH2	1:L:565:GLU:HG3	2.30	0.47
1:C:565:GLU:HG3	1:2:391:ARG:NH2	2.29	0.47
1:D:350:TYR:OH	1:D:643:PRO:O	2.32	0.47
1:D:358:SER:HB2	1:D:360:HIS:CD2	2.50	0.47
1:D:565:GLU:HG3	1:N:391:ARG:NH2	2.30	0.47
1:D:690:GLU:OE1	1:M:296:ARG:NH2	2.47	0.47
1:E:271:ASP:OD1	1:E:515:ASN:N	2.46	0.47
1:E:503:TRP:HZ3	1:E:517:LEU:HB2	1.79	0.47
1:F:228:TRP:CE3	1:G:404:MET:HE3	2.49	0.47
1:F:358:SER:HB2	1:F:360:HIS:CD2	2.50	0.47
1:F:404:MET:HE3	1:R:228:TRP:CE3	2.49	0.47
1:F:503:TRP:HZ3	1:F:517:LEU:HB2	1.79	0.47
1:H:391:ARG:NH2	1:Y:565:GLU:HG3	2.30	0.47
1:I:528:LYS:HG2	1:I:529:GLU:OE1	2.14	0.47
1:J:630:HIS:O	1:J:632:SER:N	2.43	0.47
1:J:690:GLU:OE1	1:K:296:ARG:NH2	2.48	0.47
1:K:404:MET:HE3	1:7:228:TRP:CE3	2.48	0.47
1:K:707:LYS:NZ	1:L:384:ASP:OD2	2.36	0.47
1:L:358:SER:HB2	1:L:360:HIS:CD2	2.50	0.47
1:M:358:SER:HB2	1:M:360:HIS:CD2	2.50	0.47
1:M:528:LYS:HG2	1:M:529:GLU:OE1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:658:PRO:HG2	1:3:250:PRO:HB3	1.96	0.47
1:P:358:SER:HB2	1:P:360:HIS:CD2	2.50	0.47
1:R:712:GLU:HB3	1:R:724:PRO:HG3	1.96	0.47
1:S:546:GLN:NE2	1:S:721:TYR:O	2.45	0.47
1:T:566:ILE:HD12	1:T:730:ARG:HH12	1.80	0.47
1:U:296:ARG:NH2	1:V:690:GLU:OE1	2.48	0.47
1:W:712:GLU:HB3	1:W:724:PRO:HG3	1.96	0.47
1:Z:391:ARG:NH2	1:w:565:GLU:HG3	2.30	0.47
1:Z:566:ILE:HD12	1:Z:730:ARG:HH12	1.80	0.47
1:2:228:TRP:CE3	1:i:404:MET:HE3	2.49	0.47
1:2:503:TRP:HZ3	1:2:517:LEU:HB2	1.79	0.47
1:2:657:ASP:N	1:2:657:ASP:OD1	2.48	0.47
1:3:546:GLN:NE2	1:3:721:TYR:O	2.45	0.47
1:3:565:GLU:HG3	1:i:391:ARG:NH2	2.30	0.47
1:3:658:PRO:HG2	1:m:250:PRO:HB3	1.95	0.47
1:3:694:ARG:HH21	1:3:696:ASN:ND2	2.12	0.47
1:5:391:ARG:NH2	1:a:565:GLU:HG3	2.30	0.47
1:5:565:GLU:HG3	1:b:391:ARG:NH2	2.29	0.47
1:a:358:SER:HB2	1:a:360:HIS:CD2	2.50	0.47
1:b:250:PRO:HB3	1:c:658:PRO:HG2	1.95	0.47
1:b:358:SER:HB2	1:b:360:HIS:CD2	2.50	0.47
1:e:503:TRP:HZ3	1:e:517:LEU:HB2	1.79	0.47
1:e:528:LYS:HG2	1:e:529:GLU:OE1	2.14	0.47
1:f:712:GLU:HB3	1:f:724:PRO:HG3	1.96	0.47
1:g:434:ARG:HA	1:g:436:MET:HE3	1.96	0.47
1:g:546:GLN:NE2	1:g:721:TYR:O	2.45	0.47
1:h:694:ARG:HH21	1:h:696:ASN:ND2	2.11	0.47
1:i:250:PRO:HB3	1:7:658:PRO:HG2	1.96	0.47
1:i:565:GLU:HG3	1:j:391:ARG:NH2	2.30	0.47
1:j:546:GLN:NE2	1:j:721:TYR:O	2.45	0.47
1:j:566:ILE:HD12	1:j:730:ARG:HH12	1.80	0.47
1:k:391:ARG:NH2	1:m:565:GLU:HG3	2.30	0.47
1:l:712:GLU:HB3	1:l:724:PRO:HG3	1.96	0.47
1:o:250:PRO:HB3	1:v:658:PRO:HG2	1.95	0.47
1:o:358:SER:HB2	1:o:360:HIS:CD2	2.50	0.47
1:o:565:GLU:HG3	1:p:391:ARG:NH2	2.30	0.47
1:p:404:MET:HE3	1:u:228:TRP:CE3	2.48	0.47
1:p:630:HIS:O	1:p:632:SER:N	2.43	0.47
1:s:460:THR:HB	1:s:462:LYS:HE3	1.97	0.47
1:t:358:SER:HB2	1:t:360:HIS:CD2	2.50	0.47
1:t:658:PRO:HG2	1:x:250:PRO:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:657:ASP:OD1	1:v:657:ASP:N	2.48	0.47
1:y:391:ARG:NH2	1:7:565:GLU:HG3	2.29	0.47
1:y:630:HIS:O	1:y:632:SER:N	2.43	0.47
1:z:460:THR:HB	1:z:462:LYS:HE3	1.97	0.47
1:8:358:SER:HB2	1:8:360:HIS:CD2	2.50	0.47
1:A:630:HIS:O	1:A:632:SER:N	2.43	0.47
1:E:566:ILE:HD12	1:E:730:ARG:HH12	1.80	0.47
1:F:630:HIS:O	1:F:632:SER:N	2.43	0.47
1:G:437:ASN:HB2	1:I:355:VAL:CG1	2.43	0.47
1:I:460:THR:HB	1:I:462:LYS:HE3	1.97	0.47
1:J:460:THR:HB	1:J:462:LYS:HE3	1.97	0.47
1:K:391:ARG:NH2	1:8:565:GLU:HG3	2.30	0.47
1:L:566:ILE:HD12	1:L:730:ARG:HH12	1.80	0.47
1:L:712:GLU:HB3	1:L:724:PRO:HG3	1.97	0.47
1:P:250:PRO:HB3	1:Q:658:PRO:HG2	1.95	0.47
1:Q:434:ARG:HA	1:Q:436:MET:HE3	1.96	0.47
1:R:355:VAL:CG1	1:U:437:ASN:HB2	2.43	0.47
1:R:630:HIS:O	1:R:632:SER:N	2.43	0.47
1:S:566:ILE:HD12	1:S:730:ARG:HH12	1.80	0.47
1:T:358:SER:HB2	1:T:360:HIS:CD2	2.50	0.47
1:T:391:ARG:NH2	1:f:565:GLU:HG3	2.29	0.47
1:V:694:ARG:HH21	1:V:696:ASN:ND2	2.12	0.47
1:W:565:GLU:HG3	1:Y:391:ARG:NH2	2.30	0.47
1:X:528:LYS:HG2	1:X:529:GLU:OE1	2.14	0.47
1:1:460:THR:HB	1:1:462:LYS:HE3	1.97	0.47
1:1:503:TRP:HZ3	1:1:517:LEU:HB2	1.79	0.47
1:2:358:SER:HB2	1:2:360:HIS:CD2	2.50	0.47
1:2:460:THR:HB	1:2:462:LYS:HE3	1.97	0.47
1:a:503:TRP:HZ3	1:a:517:LEU:HB2	1.79	0.47
1:a:712:GLU:HB3	1:a:724:PRO:HG3	1.97	0.47
1:c:358:SER:HB2	1:c:360:HIS:CD2	2.50	0.47
1:c:434:ARG:HA	1:c:436:MET:HE3	1.96	0.47
1:d:404:MET:HE3	1:f:228:TRP:CE3	2.49	0.47
1:e:566:ILE:HD12	1:e:730:ARG:HH12	1.80	0.47
1:h:358:SER:HB2	1:h:360:HIS:CD2	2.50	0.47
1:j:350:TYR:OH	1:j:643:PRO:O	2.32	0.47
1:m:350:TYR:OH	1:m:643:PRO:O	2.32	0.47
1:n:546:GLN:NE2	1:n:721:TYR:O	2.45	0.47
1:o:566:ILE:HD12	1:o:730:ARG:HH12	1.80	0.47
1:p:358:SER:HB2	1:p:360:HIS:CD2	2.50	0.47
1:q:391:ARG:NH2	1:s:565:GLU:HG3	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:565:GLU:HG3	1:r:391:ARG:NH2	2.30	0.47
1:q:712:GLU:HB3	1:q:724:PRO:HG3	1.97	0.47
1:s:358:SER:HB2	1:s:360:HIS:CD2	2.50	0.47
1:s:528:LYS:HG2	1:s:529:GLU:OE1	2.14	0.47
1:t:311:LYS:CE	1:t:686:GLU:CB	2.86	0.47
1:t:566:ILE:HD12	1:t:730:ARG:HH12	1.80	0.47
1:v:250:PRO:HB3	1:w:658:PRO:HG2	1.95	0.47
1:v:358:SER:HB2	1:v:360:HIS:CD2	2.50	0.47
1:v:460:THR:HB	1:v:462:LYS:HE3	1.97	0.47
1:v:503:TRP:HZ3	1:v:517:LEU:HB2	1.79	0.47
1:x:694:ARG:HH21	1:x:696:ASN:ND2	2.12	0.47
1:7:271:ASP:OD1	1:7:515:ASN:N	2.46	0.47
1:7:712:GLU:HB3	1:7:724:PRO:HG3	1.96	0.47
1:8:712:GLU:HB3	1:8:724:PRO:HG3	1.97	0.47
1:A:391:ARG:NH2	1:I:565:GLU:HG3	2.30	0.47
1:B:404:MET:HE3	1:C:228:TRP:CE3	2.48	0.47
1:C:358:SER:HB2	1:C:360:HIS:CD2	2.50	0.47
1:D:503:TRP:HZ3	1:D:517:LEU:HB2	1.79	0.47
1:D:712:GLU:HB3	1:D:724:PRO:HG3	1.97	0.47
1:F:434:ARG:HA	1:F:436:MET:HE3	1.96	0.47
1:H:503:TRP:HZ3	1:H:517:LEU:HB2	1.79	0.47
1:I:358:SER:HB2	1:I:360:HIS:CD2	2.50	0.47
1:K:358:SER:HB2	1:K:360:HIS:CD2	2.50	0.47
1:M:434:ARG:HA	1:M:436:MET:HE3	1.96	0.47
1:M:503:TRP:HZ3	1:M:517:LEU:HB2	1.79	0.47
1:N:690:GLU:OE1	1:O:296:ARG:NH2	2.48	0.47
1:P:434:ARG:HA	1:P:436:MET:HE3	1.96	0.47
1:P:566:ILE:HD12	1:P:730:ARG:HH12	1.80	0.47
1:Q:311:LYS:CE	1:Q:686:GLU:CB	2.86	0.47
1:S:358:SER:HB2	1:S:360:HIS:CD2	2.50	0.47
1:T:503:TRP:HZ3	1:T:517:LEU:HB2	1.79	0.47
1:V:358:SER:HB2	1:V:360:HIS:CD2	2.50	0.47
1:V:658:PRO:HG2	1:W:250:PRO:HB3	1.96	0.47
1:W:358:SER:HB2	1:W:360:HIS:CD2	2.50	0.47
1:X:460:THR:HB	1:X:462:LYS:HE3	1.97	0.47
1:Y:434:ARG:HA	1:Y:436:MET:HE3	1.96	0.47
1:Z:350:TYR:OH	1:Z:643:PRO:O	2.32	0.47
1:Z:546:GLN:NE2	1:Z:721:TYR:O	2.45	0.47
1:2:250:PRO:HB3	1:i:658:PRO:HG2	1.95	0.47
1:2:566:ILE:HD12	1:2:730:ARG:HH12	1.80	0.47
1:2:712:GLU:HB3	1:2:724:PRO:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:690:GLU:OE1	1:t:296:ARG:NH2	2.47	0.47
1:b:566:ILE:HD12	1:b:730:ARG:HH12	1.80	0.47
1:c:503:TRP:HZ3	1:c:517:LEU:HB2	1.79	0.47
1:c:566:ILE:HD12	1:c:730:ARG:HH12	1.80	0.47
1:d:228:TRP:CE3	1:r:404:MET:HE3	2.49	0.47
1:d:250:PRO:HB3	1:r:658:PRO:HG2	1.95	0.47
1:f:434:ARG:HA	1:f:436:MET:HE3	1.96	0.47
1:f:630:HIS:O	1:f:632:SER:N	2.43	0.47
1:g:460:THR:HB	1:g:462:LYS:HE3	1.97	0.47
1:g:528:LYS:HG2	1:g:529:GLU:OE1	2.14	0.47
1:k:460:THR:HB	1:k:462:LYS:HE3	1.97	0.47
1:k:503:TRP:HZ3	1:k:517:LEU:HB2	1.79	0.47
1:k:566:ILE:HD12	1:k:730:ARG:HH12	1.80	0.47
1:k:634:LEU:HD21	1:m:604:GLY:HA3	1.95	0.47
1:l:546:GLN:NE2	1:l:721:TYR:O	2.45	0.47
1:l:565:GLU:HG3	1:m:391:ARG:NH2	2.30	0.47
1:n:358:SER:HB2	1:n:360:HIS:CD2	2.50	0.47
1:n:460:THR:HB	1:n:462:LYS:HE3	1.97	0.47
1:n:630:HIS:O	1:n:632:SER:N	2.43	0.47
1:n:690:GLU:OE1	1:y:296:ARG:NH2	2.48	0.47
1:o:712:GLU:HB3	1:o:724:PRO:HG3	1.97	0.47
1:t:503:TRP:HZ3	1:t:517:LEU:HB2	1.79	0.47
1:u:358:SER:HB2	1:u:360:HIS:CD2	2.50	0.47
1:u:460:THR:HB	1:u:462:LYS:HE3	1.97	0.47
1:u:565:GLU:HG3	1:v:391:ARG:NH2	2.30	0.47
1:x:546:GLN:NE2	1:x:721:TYR:O	2.45	0.47
1:y:261:SER:O	1:y:264:THR:OG1	2.26	0.47
1:z:309:ARG:NH2	1:z:686:GLU:OE1	2.31	0.47
1:z:503:TRP:HZ3	1:z:517:LEU:HB2	1.79	0.47
1:7:503:TRP:HZ3	1:7:517:LEU:HB2	1.79	0.47
1:8:460:THR:HB	1:8:462:LYS:HE3	1.97	0.47
1:A:228:TRP:CE3	1:E:404:MET:HE3	2.48	0.47
1:A:358:SER:HB2	1:A:360:HIS:CD2	2.50	0.47
1:C:460:THR:HB	1:C:462:LYS:HE3	1.97	0.47
1:F:250:PRO:HB3	1:G:658:PRO:HG2	1.95	0.47
1:H:460:THR:HB	1:H:462:LYS:HE3	1.97	0.47
1:H:566:ILE:HD12	1:H:730:ARG:HH12	1.80	0.47
1:H:634:LEU:HD21	1:Y:604:GLY:HA3	1.95	0.47
1:I:716:ASN:ND2	1:I:718:GLU:OE2	2.48	0.47
1:J:358:SER:HB2	1:J:360:HIS:CD2	2.50	0.47
1:K:630:HIS:O	1:K:632:SER:N	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:566:ILE:HD12	1:M:730:ARG:HH12	1.80	0.47
1:Q:358:SER:HB2	1:Q:360:HIS:CD2	2.50	0.47
1:Q:566:ILE:HD12	1:Q:730:ARG:HH12	1.80	0.47
1:S:503:TRP:HZ3	1:S:517:LEU:HB2	1.79	0.47
1:S:716:ASN:ND2	1:S:718:GLU:OE2	2.48	0.47
1:T:546:GLN:NE2	1:T:721:TYR:O	2.45	0.47
1:T:716:ASN:ND2	1:T:718:GLU:OE2	2.48	0.47
1:W:296:ARG:NH2	1:X:690:GLU:OE1	2.48	0.47
1:W:716:ASN:ND2	1:W:718:GLU:OE2	2.48	0.47
1:Y:350:TYR:OH	1:Y:643:PRO:O	2.32	0.47
1:Z:358:SER:HB2	1:Z:360:HIS:CD2	2.50	0.47
1:Z:716:ASN:ND2	1:Z:718:GLU:OE2	2.48	0.47
1:b:434:ARG:HA	1:b:436:MET:HE3	1.96	0.47
1:c:716:ASN:ND2	1:c:718:GLU:OE2	2.48	0.47
1:d:503:TRP:HZ3	1:d:517:LEU:HB2	1.79	0.47
1:d:630:HIS:O	1:d:632:SER:N	2.43	0.47
1:d:658:PRO:HG2	1:f:250:PRO:HB3	1.96	0.47
1:i:716:ASN:ND2	1:i:718:GLU:OE2	2.48	0.47
1:j:716:ASN:ND2	1:j:718:GLU:OE2	2.48	0.47
1:l:358:SER:HB2	1:l:360:HIS:CD2	2.50	0.47
1:l:716:ASN:ND2	1:l:718:GLU:OE2	2.48	0.47
1:m:398:GLU:OE1	1:m:650:LYS:NZ	2.44	0.47
1:m:434:ARG:HA	1:m:436:MET:HE3	1.96	0.47
1:n:565:GLU:HG3	1:o:391:ARG:NH2	2.30	0.47
1:n:712:GLU:HB3	1:n:724:PRO:HG3	1.96	0.47
1:q:358:SER:HB2	1:q:360:HIS:CD2	2.50	0.47
1:r:437:ASN:HB2	1:s:355:VAL:CG1	2.43	0.47
1:v:566:ILE:HD12	1:v:730:ARG:HH12	1.80	0.47
1:v:712:GLU:HB3	1:v:724:PRO:HG3	1.97	0.47
1:w:716:ASN:ND2	1:w:718:GLU:OE2	2.48	0.47
1:y:358:SER:HB2	1:y:360:HIS:CD2	2.50	0.47
1:7:460:THR:HB	1:7:462:LYS:HE3	1.97	0.47
1:8:503:TRP:HZ3	1:8:517:LEU:HB2	1.79	0.47
1:F:391:ARG:NH2	1:Q:565:GLU:HG3	2.30	0.46
1:G:690:GLU:OE1	1:H:296:ARG:NH2	2.49	0.46
1:H:716:ASN:ND2	1:H:718:GLU:OE2	2.48	0.46
1:J:566:ILE:HD12	1:J:730:ARG:HH12	1.80	0.46
1:J:712:GLU:HB3	1:J:724:PRO:HG3	1.96	0.46
1:M:716:ASN:ND2	1:M:718:GLU:OE2	2.48	0.46
1:O:712:GLU:HB3	1:O:724:PRO:HG3	1.96	0.46
1:P:716:ASN:ND2	1:P:718:GLU:OE2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:503:TRP:HZ3	1:Q:517:LEU:HB2	1.79	0.46
1:Q:657:ASP:N	1:Q:657:ASP:OD1	2.48	0.46
1:Q:716:ASN:ND2	1:Q:718:GLU:OE2	2.48	0.46
1:R:434:ARG:HA	1:R:436:MET:HE3	1.96	0.46
1:U:712:GLU:HB3	1:U:724:PRO:HG3	1.97	0.46
1:W:546:GLN:NE2	1:W:721:TYR:O	2.45	0.46
1:X:546:GLN:NE2	1:X:721:TYR:O	2.45	0.46
1:1:434:ARG:HA	1:1:436:MET:HE3	1.96	0.46
1:4:296:ARG:NH2	1:5:690:GLU:OE1	2.48	0.46
1:4:657:ASP:OD1	1:4:657:ASP:N	2.48	0.46
1:b:716:ASN:ND2	1:b:718:GLU:OE2	2.48	0.46
1:c:565:GLU:HG3	1:d:391:ARG:NH2	2.30	0.46
1:c:657:ASP:OD1	1:c:657:ASP:N	2.48	0.46
1:d:434:ARG:HA	1:d:436:MET:HE3	1.96	0.46
1:d:528:LYS:HG2	1:d:529:GLU:OE1	2.14	0.46
1:g:250:PRO:HB3	1:m:658:PRO:HG2	1.95	0.46
1:g:690:GLU:OE1	1:l:296:ARG:NH2	2.48	0.46
1:h:658:PRO:HG2	1:l:250:PRO:HB3	1.96	0.46
1:j:358:SER:HB2	1:j:360:HIS:CD2	2.50	0.46
1:j:503:TRP:HZ3	1:j:517:LEU:HB2	1.79	0.46
1:k:296:ARG:NH2	1:r:690:GLU:OE1	2.49	0.46
1:k:565:GLU:HG3	1:l:391:ARG:NH2	2.30	0.46
1:o:658:PRO:HG2	1:y:250:PRO:HB3	1.96	0.46
1:q:630:HIS:O	1:q:632:SER:N	2.43	0.46
1:q:694:ARG:HH21	1:q:696:ASN:ND2	2.11	0.46
1:s:716:ASN:ND2	1:s:718:GLU:OE2	2.48	0.46
1:t:434:ARG:HA	1:t:436:MET:HE3	1.96	0.46
1:t:716:ASN:ND2	1:t:718:GLU:OE2	2.48	0.46
1:u:566:ILE:HD12	1:u:730:ARG:HH12	1.80	0.46
1:y:503:TRP:HZ3	1:y:517:LEU:HB2	1.79	0.46
1:y:654:VAL:HG22	1:8:321:GLN:HE22	1.80	0.46
1:A:296:ARG:NH2	1:F:690:GLU:OE1	2.48	0.46
1:C:391:ARG:NH2	1:M:565:GLU:HG3	2.30	0.46
1:C:566:ILE:HD12	1:C:730:ARG:HH12	1.80	0.46
1:F:528:LYS:HG2	1:F:529:GLU:OE1	2.14	0.46
1:H:290:HIS:HD2	1:H:366:PRO:HB3	1.81	0.46
1:J:546:GLN:NE2	1:J:721:TYR:O	2.45	0.46
1:J:565:GLU:HG3	1:L:391:ARG:NH2	2.30	0.46
1:K:716:ASN:ND2	1:K:718:GLU:OE2	2.48	0.46
1:L:309:ARG:NH2	1:L:686:GLU:OE1	2.31	0.46
1:M:311:LYS:CE	1:M:686:GLU:CB	2.86	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:657:ASP:OD1	1:N:657:ASP:N	2.48	0.46
1:O:391:ARG:NH2	1:h:565:GLU:HG3	2.30	0.46
1:Q:460:THR:HB	1:Q:462:LYS:HE3	1.97	0.46
1:Q:712:GLU:HB3	1:Q:724:PRO:HG3	1.96	0.46
1:R:391:ARG:NH2	1:U:565:GLU:HG3	2.29	0.46
1:T:404:MET:HE3	1:c:228:TRP:CE3	2.49	0.46
1:U:309:ARG:NH2	1:U:686:GLU:OE1	2.31	0.46
1:Y:296:ARG:NH2	1:Z:690:GLU:OE1	2.49	0.46
1:Z:434:ARG:HA	1:Z:436:MET:HE3	1.96	0.46
1:3:566:ILE:HD12	1:3:730:ARG:HH12	1.80	0.46
1:4:690:GLU:OE1	1:5:296:ARG:NH2	2.48	0.46
1:5:716:ASN:ND2	1:5:718:GLU:OE2	2.48	0.46
1:b:309:ARG:NH2	1:b:686:GLU:OE1	2.31	0.46
1:d:690:GLU:OE1	1:q:296:ARG:NH2	2.49	0.46
1:g:503:TRP:HZ3	1:g:517:LEU:HB2	1.79	0.46
1:i:358:SER:HB2	1:i:360:HIS:CD2	2.50	0.46
1:i:566:ILE:HD12	1:i:730:ARG:HH12	1.80	0.46
1:k:716:ASN:ND2	1:k:718:GLU:OE2	2.48	0.46
1:n:566:ILE:HD12	1:n:730:ARG:HH12	1.80	0.46
1:o:309:ARG:NH2	1:o:686:GLU:OE1	2.31	0.46
1:p:566:ILE:HD12	1:p:730:ARG:HH12	1.80	0.46
1:u:290:HIS:HD2	1:u:366:PRO:HB3	1.81	0.46
1:w:358:SER:HB2	1:w:360:HIS:CD2	2.50	0.46
1:w:566:ILE:HD12	1:w:730:ARG:HH12	1.80	0.46
1:7:566:ILE:HD12	1:7:730:ARG:HH12	1.80	0.46
1:8:566:ILE:HD12	1:8:730:ARG:HH12	1.80	0.46
1:A:657:ASP:N	1:A:657:ASP:OD1	2.48	0.46
1:A:694:ARG:HH21	1:A:696:ASN:ND2	2.11	0.46
1:B:434:ARG:HA	1:B:436:MET:HE3	1.96	0.46
1:B:566:ILE:HD12	1:B:730:ARG:HH12	1.80	0.46
1:C:290:HIS:HD2	1:C:366:PRO:HB3	1.81	0.46
1:C:403:GLN:HG3	1:D:227:ASN:OD1	2.16	0.46
1:C:415:TYR:OH	1:C:642:HIS:O	2.30	0.46
1:C:690:GLU:OE1	1:L:296:ARG:NH2	2.48	0.46
1:E:355:VAL:CG1	1:F:437:ASN:HB2	2.43	0.46
1:E:358:SER:HB2	1:E:360:HIS:CD2	2.50	0.46
1:E:690:GLU:OE1	1:P:296:ARG:NH2	2.49	0.46
1:E:716:ASN:ND2	1:E:718:GLU:OE2	2.48	0.46
1:G:716:ASN:ND2	1:G:718:GLU:OE2	2.48	0.46
1:H:434:ARG:HA	1:H:436:MET:HE3	1.96	0.46
1:H:565:GLU:HG3	1:W:391:ARG:NH2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:309:ARG:NH2	1:J:686:GLU:OE1	2.31	0.46
1:J:716:ASN:ND2	1:J:718:GLU:OE2	2.48	0.46
1:K:250:PRO:HB3	1:L:658:PRO:HG2	1.96	0.46
1:O:228:TRP:CE3	1:P:404:MET:HE3	2.48	0.46
1:O:290:HIS:HD2	1:O:366:PRO:HB3	1.81	0.46
1:O:657:ASP:N	1:O:657:ASP:OD1	2.48	0.46
1:O:716:ASN:ND2	1:O:718:GLU:OE2	2.48	0.46
1:P:657:ASP:OD1	1:P:657:ASP:N	2.48	0.46
1:U:228:TRP:CE3	1:4:404:MET:HE3	2.48	0.46
1:U:434:ARG:HA	1:U:436:MET:HE3	1.96	0.46
1:X:250:PRO:HB3	1:Y:658:PRO:HG2	1.95	0.46
1:X:716:ASN:ND2	1:X:718:GLU:OE2	2.48	0.46
1:Z:503:TRP:HZ3	1:Z:517:LEU:HB2	1.79	0.46
1:3:716:ASN:ND2	1:3:718:GLU:OE2	2.48	0.46
1:4:712:GLU:HB3	1:4:724:PRO:HG3	1.97	0.46
1:5:403:GLN:HG3	1:t:227:ASN:OD1	2.16	0.46
1:5:657:ASP:OD1	1:5:657:ASP:N	2.48	0.46
1:c:296:ARG:NH2	1:f:690:GLU:OE1	2.48	0.46
1:c:460:THR:HB	1:c:462:LYS:HE3	1.97	0.46
1:d:296:ARG:NH2	1:q:690:GLU:OE1	2.49	0.46
1:e:398:GLU:OE1	1:e:650:LYS:NZ	2.44	0.46
1:e:716:ASN:ND2	1:e:718:GLU:OE2	2.48	0.46
1:f:358:SER:HB2	1:f:360:HIS:CD2	2.50	0.46
1:j:434:ARG:HA	1:j:436:MET:HE3	1.96	0.46
1:j:690:GLU:OE1	1:m:296:ARG:NH2	2.49	0.46
1:k:290:HIS:HD2	1:k:366:PRO:HB3	1.81	0.46
1:k:546:GLN:NE2	1:k:721:TYR:O	2.45	0.46
1:n:296:ARG:NH2	1:y:690:GLU:OE1	2.49	0.46
1:n:528:LYS:HG2	1:n:529:GLU:OE1	2.14	0.46
1:n:716:ASN:ND2	1:n:718:GLU:OE2	2.48	0.46
1:q:657:ASP:OD1	1:q:657:ASP:N	2.48	0.46
1:t:565:GLU:HG3	1:u:391:ARG:NH2	2.30	0.46
1:x:716:ASN:ND2	1:x:718:GLU:OE2	2.48	0.46
1:y:716:ASN:ND2	1:y:718:GLU:OE2	2.48	0.46
1:z:311:LYS:CE	1:z:686:GLU:CB	2.86	0.46
1:z:434:ARG:HA	1:z:436:MET:HE3	1.96	0.46
1:z:657:ASP:N	1:z:657:ASP:OD1	2.48	0.46
1:K:261:SER:O	1:K:264:THR:OG1	2.26	0.46
1:K:503:TRP:HZ3	1:K:517:LEU:HB2	1.79	0.46
1:M:227:ASN:OD1	1:N:403:GLN:HG3	2.16	0.46
1:N:716:ASN:ND2	1:N:718:GLU:OE2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:309:ARG:NH2	1:O:686:GLU:OE1	2.31	0.46
1:Q:228:TRP:CE3	1:S:404:MET:HE3	2.49	0.46
1:R:358:SER:HB2	1:R:360:HIS:CD2	2.50	0.46
1:U:350:TYR:OH	1:U:643:PRO:O	2.32	0.46
1:X:503:TRP:HZ3	1:X:517:LEU:HB2	1.79	0.46
1:Y:460:THR:HB	1:Y:462:LYS:HE3	1.97	0.46
1:Y:716:ASN:ND2	1:Y:718:GLU:OE2	2.48	0.46
1:1:566:ILE:HD12	1:1:730:ARG:HH12	1.80	0.46
1:1:657:ASP:N	1:1:657:ASP:OD1	2.48	0.46
1:1:716:ASN:ND2	1:1:718:GLU:OE2	2.48	0.46
1:4:228:TRP:CE3	1:b:404:MET:HE3	2.49	0.46
1:4:716:ASN:ND2	1:4:718:GLU:OE2	2.48	0.46
1:a:227:ASN:OD1	1:u:403:GLN:HG3	2.16	0.46
1:d:290:HIS:HD2	1:d:366:PRO:HB3	1.81	0.46
1:e:358:SER:HB2	1:e:360:HIS:CD2	2.50	0.46
1:e:404:MET:HE3	1:q:228:TRP:CE3	2.49	0.46
1:g:716:ASN:ND2	1:g:718:GLU:OE2	2.48	0.46
1:m:460:THR:HB	1:m:462:LYS:HE3	1.97	0.46
1:m:716:ASN:ND2	1:m:718:GLU:OE2	2.48	0.46
1:o:296:ARG:NH2	1:u:690:GLU:OE1	2.49	0.46
1:q:546:GLN:NE2	1:q:721:TYR:O	2.45	0.46
1:r:716:ASN:ND2	1:r:718:GLU:OE2	2.48	0.46
1:s:350:TYR:OH	1:s:643:PRO:O	2.32	0.46
1:x:566:ILE:HD12	1:x:730:ARG:HH12	1.80	0.46
1:y:657:ASP:OD1	1:y:657:ASP:N	2.48	0.46
1:A:690:GLU:OE1	1:F:296:ARG:NH2	2.49	0.46
1:B:350:TYR:OH	1:B:643:PRO:O	2.32	0.46
1:C:309:ARG:NH2	1:C:686:GLU:OE1	2.31	0.46
1:C:716:ASN:ND2	1:C:718:GLU:OE2	2.48	0.46
1:H:546:GLN:NE2	1:H:721:TYR:O	2.45	0.46
1:K:460:THR:HB	1:K:462:LYS:HE3	1.97	0.46
1:K:657:ASP:OD1	1:K:657:ASP:N	2.48	0.46
1:L:460:THR:HB	1:L:462:LYS:HE3	1.97	0.46
1:M:712:GLU:HB3	1:M:724:PRO:HG3	1.97	0.46
1:N:358:SER:HB2	1:N:360:HIS:CD2	2.50	0.46
1:O:566:ILE:HD12	1:O:730:ARG:HH12	1.80	0.46
1:W:309:ARG:NH2	1:W:686:GLU:OE1	2.31	0.46
1:X:290:HIS:HD2	1:X:366:PRO:HB3	1.81	0.46
1:X:391:ARG:NH2	1:4:565:GLU:HG3	2.30	0.46
1:Y:290:HIS:HD2	1:Y:366:PRO:HB3	1.81	0.46
1:Y:657:ASP:OD1	1:Y:657:ASP:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:296:ARG:NH2	1:w:690:GLU:OE1	2.49	0.46
1:4:290:HIS:HD2	1:4:366:PRO:HB3	1.81	0.46
1:5:434:ARG:HA	1:5:436:MET:HE3	1.96	0.46
1:b:296:ARG:NH2	1:e:690:GLU:OE1	2.49	0.46
1:b:657:ASP:N	1:b:657:ASP:OD1	2.48	0.46
1:g:657:ASP:N	1:g:657:ASP:OD1	2.48	0.46
1:g:712:GLU:HB3	1:g:724:PRO:HG3	1.96	0.46
1:j:261:SER:O	1:j:264:THR:OG1	2.26	0.46
1:k:434:ARG:HA	1:k:436:MET:HE3	1.96	0.46
1:k:712:GLU:HB3	1:k:724:PRO:HG3	1.97	0.46
1:m:290:HIS:HD2	1:m:366:PRO:HB3	1.81	0.46
1:o:460:THR:HB	1:o:462:LYS:HE3	1.97	0.46
1:p:350:TYR:OH	1:p:643:PRO:O	2.32	0.46
1:p:434:ARG:HA	1:p:436:MET:HE3	1.96	0.46
1:r:358:SER:HB2	1:r:360:HIS:CD2	2.50	0.46
1:t:712:GLU:HB3	1:t:724:PRO:HG3	1.97	0.46
1:u:309:ARG:NH2	1:u:686:GLU:OE1	2.31	0.46
1:v:716:ASN:ND2	1:v:718:GLU:OE2	2.48	0.46
1:w:712:GLU:HB3	1:w:724:PRO:HG3	1.96	0.46
1:z:566:ILE:HD12	1:z:730:ARG:HH12	1.80	0.46
1:z:716:ASN:ND2	1:z:718:GLU:OE2	2.48	0.46
1:A:546:GLN:NE2	1:A:721:TYR:O	2.45	0.46
1:A:716:ASN:ND2	1:A:718:GLU:OE2	2.48	0.46
1:C:712:GLU:HB3	1:C:724:PRO:HG3	1.96	0.46
1:D:460:THR:HB	1:D:462:LYS:HE3	1.97	0.46
1:G:358:SER:HB2	1:G:360:HIS:CD2	2.50	0.46
1:H:712:GLU:HB3	1:H:724:PRO:HG3	1.97	0.46
1:I:350:TYR:OH	1:I:643:PRO:O	2.32	0.46
1:J:296:ARG:NH2	1:K:690:GLU:OE1	2.49	0.46
1:J:503:TRP:HZ3	1:J:517:LEU:HB2	1.79	0.46
1:J:528:LYS:HG2	1:J:529:GLU:OE1	2.14	0.46
1:P:712:GLU:HB3	1:P:724:PRO:HG3	1.97	0.46
1:U:503:TRP:HZ3	1:U:517:LEU:HB2	1.79	0.46
1:X:657:ASP:OD1	1:X:657:ASP:N	2.48	0.46
1:X:712:GLU:HB3	1:X:724:PRO:HG3	1.97	0.46
1:Y:690:GLU:OE1	1:Z:296:ARG:NH2	2.49	0.46
1:2:716:ASN:ND2	1:2:718:GLU:OE2	2.48	0.46
1:5:358:SER:HB2	1:5:360:HIS:CD2	2.50	0.46
1:5:404:MET:HE3	1:t:228:TRP:CE3	2.49	0.46
1:a:460:THR:HB	1:a:462:LYS:HE3	1.97	0.46
1:a:566:ILE:HD12	1:a:730:ARG:HH12	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:712:GLU:HB3	1:b:724:PRO:HG3	1.97	0.46
1:c:712:GLU:HB3	1:c:724:PRO:HG3	1.97	0.46
1:d:437:ASN:HB2	1:e:355:VAL:CG1	2.43	0.46
1:g:290:HIS:HD2	1:g:366:PRO:HB3	1.81	0.46
1:i:690:GLU:OE1	1:z:296:ARG:NH2	2.49	0.46
1:m:657:ASP:N	1:m:657:ASP:OD1	2.48	0.46
1:o:657:ASP:N	1:o:657:ASP:OD1	2.48	0.46
1:p:290:HIS:HD2	1:p:366:PRO:HB3	1.81	0.46
1:u:712:GLU:HB3	1:u:724:PRO:HG3	1.96	0.46
1:u:716:ASN:ND2	1:u:718:GLU:OE2	2.48	0.46
1:v:350:TYR:OH	1:v:643:PRO:O	2.32	0.46
1:y:460:THR:HB	1:y:462:LYS:HE3	1.97	0.46
1:D:716:ASN:ND2	1:D:718:GLU:OE2	2.48	0.46
1:E:296:ARG:NH2	1:P:690:GLU:OE1	2.49	0.46
1:G:296:ARG:NH2	1:H:690:GLU:OE1	2.49	0.46
1:L:657:ASP:N	1:L:657:ASP:OD1	2.48	0.46
1:M:228:TRP:CE3	1:N:404:MET:HE3	2.49	0.46
1:M:404:MET:HE3	1:3:228:TRP:CE3	2.51	0.46
1:N:296:ARG:NH2	1:O:690:GLU:OE1	2.49	0.46
1:P:309:ARG:NH2	1:P:686:GLU:OE1	2.31	0.46
1:Q:290:HIS:HD2	1:Q:366:PRO:HB3	1.81	0.46
1:S:269:SER:HB2	1:S:272:ASN:HB2	1.98	0.46
1:T:269:SER:HB2	1:T:272:ASN:HB2	1.98	0.46
1:U:716:ASN:ND2	1:U:718:GLU:OE2	2.48	0.46
1:3:391:ARG:NH2	1:j:565:GLU:HG3	2.29	0.46
1:4:566:ILE:HD12	1:4:730:ARG:HH12	1.80	0.46
1:c:290:HIS:HD2	1:c:366:PRO:HB3	1.81	0.46
1:c:391:ARG:NH2	1:e:565:GLU:HG3	2.30	0.46
1:h:712:GLU:HB3	1:h:724:PRO:HG3	1.96	0.46
1:i:296:ARG:NH2	1:z:690:GLU:OE1	2.48	0.46
1:j:296:ARG:NH2	1:m:690:GLU:OE1	2.49	0.46
1:k:690:GLU:OE1	1:r:296:ARG:NH2	2.49	0.46
1:o:690:GLU:OE1	1:u:296:ARG:NH2	2.48	0.46
1:q:716:ASN:ND2	1:q:718:GLU:OE2	2.48	0.46
1:r:566:ILE:HD12	1:r:730:ARG:HH12	1.80	0.46
1:t:355:VAL:CG1	1:v:437:ASN:HB2	2.42	0.46
1:t:404:MET:HE3	1:x:228:TRP:CE3	2.51	0.46
1:v:296:ARG:NH2	1:x:690:GLU:OE1	2.49	0.46
1:B:290:HIS:HD2	1:B:366:PRO:HB3	1.81	0.46
1:B:296:ARG:NH2	1:I:690:GLU:OE1	2.49	0.46
1:C:296:ARG:NH2	1:L:690:GLU:OE1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:566:ILE:HD12	1:D:730:ARG:HH12	1.80	0.46
1:G:566:ILE:HD12	1:G:730:ARG:HH12	1.80	0.46
1:I:566:ILE:HD12	1:I:730:ARG:HH12	1.80	0.46
1:K:712:GLU:HB3	1:K:724:PRO:HG3	1.97	0.46
1:M:355:VAL:CG1	1:2:437:ASN:HB2	2.42	0.46
1:M:657:ASP:OD1	1:M:657:ASP:N	2.48	0.46
1:N:434:ARG:HA	1:N:436:MET:HE3	1.96	0.46
1:Q:296:ARG:NH2	1:R:690:GLU:OE1	2.48	0.46
1:Q:528:LYS:HG2	1:Q:529:GLU:OE1	2.14	0.46
1:R:716:ASN:ND2	1:R:718:GLU:OE2	2.48	0.46
1:V:404:MET:HE3	1:W:228:TRP:CE3	2.48	0.46
1:V:566:ILE:HD12	1:V:730:ARG:HH12	1.80	0.46
1:W:566:ILE:HD12	1:W:730:ARG:HH12	1.80	0.46
1:Z:565:GLU:HG3	1:x:391:ARG:NH2	2.30	0.46
1:Z:630:HIS:O	1:Z:632:SER:N	2.43	0.46
1:2:269:SER:HB2	1:2:272:ASN:HB2	1.98	0.46
1:2:296:ARG:NH2	1:3:690:GLU:OE1	2.49	0.46
1:3:269:SER:HB2	1:3:272:ASN:HB2	1.98	0.46
1:4:309:ARG:NH2	1:4:686:GLU:OE1	2.31	0.46
1:5:566:ILE:HD12	1:5:730:ARG:HH12	1.80	0.46
1:a:716:ASN:ND2	1:a:718:GLU:OE2	2.48	0.46
1:b:228:TRP:CE3	1:c:404:MET:HE3	2.49	0.46
1:c:528:LYS:HG2	1:c:529:GLU:OE1	2.14	0.46
1:g:630:HIS:O	1:g:632:SER:N	2.43	0.46
1:n:309:ARG:NH2	1:n:686:GLU:OE1	2.31	0.46
1:n:503:TRP:HZ3	1:n:517:LEU:HB2	1.79	0.46
1:r:546:GLN:NE2	1:r:721:TYR:O	2.45	0.46
1:s:566:ILE:HD12	1:s:730:ARG:HH12	1.80	0.46
1:v:269:SER:HB2	1:v:272:ASN:HB2	1.98	0.46
1:x:269:SER:HB2	1:x:272:ASN:HB2	1.98	0.46
1:y:712:GLU:HB3	1:y:724:PRO:HG3	1.96	0.46
1:A:566:ILE:HD12	1:A:730:ARG:HH12	1.80	0.46
1:B:657:ASP:N	1:B:657:ASP:OD1	2.48	0.46
1:E:565:GLU:HG3	1:Q:391:ARG:NH2	2.30	0.46
1:F:716:ASN:ND2	1:F:718:GLU:OE2	2.48	0.46
1:K:269:SER:HB2	1:K:272:ASN:HB2	1.98	0.46
1:L:716:ASN:ND2	1:L:718:GLU:OE2	2.48	0.46
1:N:566:ILE:HD12	1:N:730:ARG:HH12	1.80	0.46
1:O:565:GLU:HG3	1:g:391:ARG:NH2	2.30	0.46
1:P:460:THR:HB	1:P:462:LYS:HE3	1.97	0.46
1:V:657:ASP:OD1	1:V:657:ASP:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:630:HIS:O	1:X:632:SER:N	2.43	0.46
1:l:690:GLU:OE1	1:w:296:ARG:NH2	2.49	0.46
1:4:269:SER:HB2	1:4:272:ASN:HB2	1.98	0.46
1:b:690:GLU:OE1	1:e:296:ARG:NH2	2.49	0.46
1:f:716:ASN:ND2	1:f:718:GLU:OE2	2.48	0.46
1:h:404:MET:HE3	1:l:228:TRP:CE3	2.48	0.46
1:i:712:GLU:HB3	1:i:724:PRO:HG3	1.97	0.46
1:j:630:HIS:O	1:j:632:SER:N	2.43	0.46
1:l:231:ASP:OD1	1:l:242:THR:OG1	2.33	0.46
1:l:309:ARG:NH2	1:l:686:GLU:OE1	2.31	0.46
1:o:716:ASN:ND2	1:o:718:GLU:OE2	2.48	0.46
1:p:296:ARG:NH2	1:s:690:GLU:OE1	2.49	0.46
1:r:434:ARG:HA	1:r:436:MET:HE3	1.96	0.46
1:t:657:ASP:N	1:t:657:ASP:OD1	2.48	0.46
1:u:261:SER:O	1:u:264:THR:OG1	2.26	0.46
1:w:460:THR:HB	1:w:462:LYS:HE3	1.97	0.46
1:B:355:VAL:CG1	1:L:437:ASN:HB2	2.43	0.46
1:G:261:SER:O	1:G:264:THR:OG1	2.26	0.46
1:I:228:TRP:CE3	1:J:404:MET:HE3	2.48	0.46
1:I:290:HIS:HD2	1:I:366:PRO:HB3	1.81	0.46
1:I:309:ARG:NE	1:I:311:LYS:NZ	2.64	0.46
1:M:309:ARG:NE	1:M:311:LYS:NZ	2.64	0.46
1:N:269:SER:HB2	1:N:272:ASN:HB2	1.98	0.46
1:N:460:THR:HB	1:N:462:LYS:HE3	1.97	0.46
1:R:460:THR:HB	1:R:462:LYS:HE3	1.97	0.46
1:T:460:THR:HB	1:T:462:LYS:HE3	1.97	0.46
1:V:460:THR:HB	1:V:462:LYS:HE3	1.97	0.46
1:3:309:ARG:NE	1:3:311:LYS:NZ	2.64	0.46
1:b:460:THR:HB	1:b:462:LYS:HE3	1.97	0.46
1:f:460:THR:HB	1:f:462:LYS:HE3	1.97	0.46
1:h:566:ILE:HD12	1:h:730:ARG:HH12	1.80	0.46
1:h:657:ASP:OD1	1:h:657:ASP:N	2.48	0.46
1:i:434:ARG:HA	1:i:436:MET:HE3	1.96	0.46
1:i:460:THR:HB	1:i:462:LYS:HE3	1.97	0.46
1:l:566:ILE:HD12	1:l:730:ARG:HH12	1.80	0.46
1:o:437:ASN:HB2	1:p:355:VAL:CG1	2.43	0.46
1:p:657:ASP:OD1	1:p:657:ASP:N	2.48	0.46
1:q:566:ILE:HD12	1:q:730:ARG:HH12	1.80	0.46
1:r:261:SER:O	1:r:264:THR:OG1	2.26	0.46
1:s:309:ARG:NE	1:s:311:LYS:NZ	2.64	0.46
1:t:309:ARG:NE	1:t:311:LYS:NZ	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:269:SER:HB2	1:y:272:ASN:HB2	1.98	0.46
1:A:309:ARG:NH2	1:A:686:GLU:OE1	2.31	0.45
1:B:460:THR:HB	1:B:462:LYS:HE3	1.97	0.45
1:E:269:SER:HB2	1:E:272:ASN:HB2	1.98	0.45
1:E:460:THR:HB	1:E:462:LYS:HE3	1.97	0.45
1:E:712:GLU:HB3	1:E:724:PRO:HG3	1.96	0.45
1:G:227:ASN:OD1	1:W:403:GLN:HG3	2.16	0.45
1:G:434:ARG:HA	1:G:436:MET:HE3	1.96	0.45
1:G:546:GLN:NE2	1:G:721:TYR:O	2.45	0.45
1:N:290:HIS:HD2	1:N:366:PRO:HB3	1.81	0.45
1:O:269:SER:HB2	1:O:272:ASN:HB2	1.98	0.45
1:P:228:TRP:CE3	1:Q:404:MET:HE3	2.49	0.45
1:P:290:HIS:HD2	1:P:366:PRO:HB3	1.81	0.45
1:Q:231:ASP:OD1	1:Q:242:THR:OG1	2.33	0.45
1:S:460:THR:HB	1:S:462:LYS:HE3	1.97	0.45
1:U:546:GLN:NE2	1:U:721:TYR:O	2.45	0.45
1:V:712:GLU:HB3	1:V:724:PRO:HG3	1.97	0.45
1:W:460:THR:HB	1:W:462:LYS:HE3	1.97	0.45
1:W:690:GLU:OE1	1:X:296:ARG:NH2	2.49	0.45
1:X:269:SER:HB2	1:X:272:ASN:HB2	1.98	0.45
1:Z:309:ARG:NE	1:Z:311:LYS:NZ	2.65	0.45
1:1:309:ARG:NE	1:1:311:LYS:NZ	2.64	0.45
1:1:712:GLU:HB3	1:1:724:PRO:HG3	1.97	0.45
1:5:269:SER:HB2	1:5:272:ASN:HB2	1.98	0.45
1:e:269:SER:HB2	1:e:272:ASN:HB2	1.98	0.45
1:e:460:THR:HB	1:e:462:LYS:HE3	1.97	0.45
1:g:269:SER:HB2	1:g:272:ASN:HB2	1.98	0.45
1:h:460:THR:HB	1:h:462:LYS:HE3	1.97	0.45
1:l:403:GLN:HG3	1:r:227:ASN:OD1	2.16	0.45
1:p:460:THR:HB	1:p:462:LYS:HE3	1.97	0.45
1:p:503:TRP:HZ3	1:p:517:LEU:HB2	1.79	0.45
1:r:460:THR:HB	1:r:462:LYS:HE3	1.97	0.45
1:t:546:GLN:NE2	1:t:721:TYR:O	2.45	0.45
1:u:231:ASP:OD1	1:u:242:THR:OG1	2.33	0.45
1:w:434:ARG:HA	1:w:436:MET:HE3	1.96	0.45
1:x:309:ARG:NE	1:x:311:LYS:NZ	2.65	0.45
1:z:309:ARG:NE	1:z:311:LYS:NZ	2.64	0.45
1:B:309:ARG:NE	1:B:311:LYS:NZ	2.64	0.45
1:B:503:TRP:HZ3	1:B:517:LEU:HB2	1.79	0.45
1:D:269:SER:HB2	1:D:272:ASN:HB2	1.98	0.45
1:D:309:ARG:NH2	1:D:686:GLU:OE1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:460:THR:HB	1:G:462:LYS:HE3	1.97	0.45
1:M:546:GLN:NE2	1:M:721:TYR:O	2.45	0.45
1:N:309:ARG:NE	1:N:311:LYS:NZ	2.64	0.45
1:Q:309:ARG:NE	1:Q:311:LYS:NZ	2.64	0.45
1:R:565:GLU:HG3	1:S:391:ARG:NH2	2.30	0.45
1:U:269:SER:HB2	1:U:272:ASN:HB2	1.98	0.45
1:V:716:ASN:ND2	1:V:718:GLU:OE2	2.48	0.45
1:X:621:LYS:HB2	1:X:643:PRO:HG3	1.99	0.45
1:Z:657:ASP:N	1:Z:657:ASP:OD1	2.48	0.45
1:2:309:ARG:NE	1:2:311:LYS:NZ	2.64	0.45
1:2:690:GLU:OE1	1:3:296:ARG:NH2	2.49	0.45
1:5:290:HIS:HD2	1:5:366:PRO:HB3	1.81	0.45
1:5:309:ARG:NE	1:5:311:LYS:NZ	2.64	0.45
1:5:460:THR:HB	1:5:462:LYS:HE3	1.97	0.45
1:a:269:SER:HB2	1:a:272:ASN:HB2	1.98	0.45
1:b:290:HIS:HD2	1:b:366:PRO:HB3	1.81	0.45
1:c:309:ARG:NE	1:c:311:LYS:NZ	2.65	0.45
1:d:716:ASN:ND2	1:d:718:GLU:OE2	2.48	0.45
1:g:296:ARG:NH2	1:l:690:GLU:OE1	2.49	0.45
1:i:437:ASN:HB2	1:j:355:VAL:CG1	2.43	0.45
1:j:309:ARG:NE	1:j:311:LYS:NZ	2.65	0.45
1:l:460:THR:HB	1:l:462:LYS:HE3	1.97	0.45
1:n:404:MET:HE3	1:s:228:TRP:CE3	2.48	0.45
1:o:350:TYR:OH	1:o:643:PRO:O	2.32	0.45
1:v:309:ARG:NE	1:v:311:LYS:NZ	2.65	0.45
1:x:460:THR:HB	1:x:462:LYS:HE3	1.97	0.45
1:y:355:VAL:CG1	1:7:437:ASN:HB2	2.43	0.45
1:z:712:GLU:HB3	1:z:724:PRO:HG3	1.97	0.45
1:7:309:ARG:NE	1:7:311:LYS:NZ	2.65	0.45
1:7:657:ASP:N	1:7:657:ASP:OD1	2.48	0.45
1:8:309:ARG:NE	1:8:311:LYS:NZ	2.64	0.45
1:C:261:SER:O	1:C:264:THR:OG1	2.26	0.45
1:F:309:ARG:NH2	1:F:686:GLU:OE1	2.31	0.45
1:H:403:GLN:HG3	1:Z:227:ASN:OD1	2.17	0.45
1:K:566:ILE:HD12	1:K:730:ARG:HH12	1.80	0.45
1:P:269:SER:HB2	1:P:272:ASN:HB2	1.98	0.45
1:Q:621:LYS:HB2	1:Q:643:PRO:HG3	1.99	0.45
1:R:566:ILE:HD12	1:R:730:ARG:HH12	1.80	0.45
1:V:403:GLN:HG3	1:W:227:ASN:OD1	2.17	0.45
1:W:261:SER:O	1:W:264:THR:OG1	2.26	0.45
1:X:403:GLN:HG3	1:5:227:ASN:OD1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:566:ILE:HD12	1:X:730:ARG:HH12	1.80	0.45
1:Z:290:HIS:HD2	1:Z:366:PRO:HB3	1.81	0.45
1:2:621:LYS:HB2	1:2:643:PRO:HG3	1.99	0.45
1:2:630:HIS:O	1:2:632:SER:N	2.43	0.45
1:3:460:THR:HB	1:3:462:LYS:HE3	1.97	0.45
1:4:309:ARG:NE	1:4:311:LYS:NZ	2.65	0.45
1:b:269:SER:HB2	1:b:272:ASN:HB2	1.98	0.45
1:e:657:ASP:N	1:e:657:ASP:OD1	2.48	0.45
1:e:712:GLU:HB3	1:e:724:PRO:HG3	1.96	0.45
1:f:309:ARG:NE	1:f:311:LYS:NZ	2.64	0.45
1:f:566:ILE:HD12	1:f:730:ARG:HH12	1.80	0.45
1:g:621:LYS:HB2	1:g:643:PRO:HG3	1.99	0.45
1:h:716:ASN:ND2	1:h:718:GLU:OE2	2.48	0.45
1:i:309:ARG:NE	1:i:311:LYS:NZ	2.64	0.45
1:j:290:HIS:HD2	1:j:366:PRO:HB3	1.81	0.45
1:l:261:SER:O	1:l:264:THR:OG1	2.26	0.45
1:n:269:SER:HB2	1:n:272:ASN:HB2	1.98	0.45
1:p:309:ARG:NE	1:p:311:LYS:NZ	2.65	0.45
1:p:716:ASN:ND2	1:p:718:GLU:OE2	2.48	0.45
1:s:290:HIS:HD2	1:s:366:PRO:HB3	1.81	0.45
1:v:621:LYS:HB2	1:v:643:PRO:HG3	1.99	0.45
1:w:309:ARG:NE	1:w:311:LYS:NZ	2.65	0.45
1:y:566:ILE:HD12	1:y:730:ARG:HH12	1.80	0.45
1:7:296:ARG:NH2	1:8:690:GLU:OE1	2.49	0.45
1:7:621:LYS:HB2	1:7:643:PRO:HG3	1.99	0.45
1:8:269:SER:HB2	1:8:272:ASN:HB2	1.98	0.45
1:8:309:ARG:NH2	1:8:686:GLU:OE1	2.31	0.45
1:8:716:ASN:ND2	1:8:718:GLU:OE2	2.48	0.45
1:A:460:THR:HB	1:A:462:LYS:HE3	1.97	0.45
1:B:716:ASN:ND2	1:B:718:GLU:OE2	2.48	0.45
1:C:309:ARG:NE	1:C:311:LYS:NZ	2.64	0.45
1:J:269:SER:HB2	1:J:272:ASN:HB2	1.98	0.45
1:L:269:SER:HB2	1:L:272:ASN:HB2	1.98	0.45
1:M:460:THR:HB	1:M:462:LYS:HE3	1.97	0.45
1:M:621:LYS:HB2	1:M:643:PRO:HG3	1.99	0.45
1:N:227:ASN:OD1	1:g:403:GLN:HG3	2.17	0.45
1:O:309:ARG:NE	1:O:311:LYS:NZ	2.65	0.45
1:R:309:ARG:NE	1:R:311:LYS:NZ	2.64	0.45
1:U:621:LYS:HB2	1:U:643:PRO:HG3	1.99	0.45
1:U:657:ASP:N	1:U:657:ASP:OD1	2.48	0.45
1:W:269:SER:HB2	1:W:272:ASN:HB2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:621:LYS:HB2	1:Y:643:PRO:HG3	1.99	0.45
1:Z:460:THR:HB	1:Z:462:LYS:HE3	1.97	0.45
1:h:403:GLN:HG3	1:l:227:ASN:OD1	2.17	0.45
1:j:227:ASN:OD1	1:k:403:GLN:HG3	2.17	0.45
1:j:403:GLN:HG3	1:z:227:ASN:OD1	2.17	0.45
1:j:460:THR:HB	1:j:462:LYS:HE3	1.97	0.45
1:j:657:ASP:N	1:j:657:ASP:OD1	2.48	0.45
1:m:566:ILE:HD12	1:m:730:ARG:HH12	1.80	0.45
1:m:621:LYS:HB2	1:m:643:PRO:HG3	1.99	0.45
1:q:460:THR:HB	1:q:462:LYS:HE3	1.97	0.45
1:t:460:THR:HB	1:t:462:LYS:HE3	1.97	0.45
1:t:621:LYS:HB2	1:t:643:PRO:HG3	1.99	0.45
1:u:309:ARG:NE	1:u:311:LYS:NZ	2.64	0.45
1:v:690:GLU:OE1	1:x:296:ARG:NH2	2.49	0.45
1:x:309:ARG:NH2	1:x:686:GLU:OE1	2.31	0.45
1:7:269:SER:HB2	1:7:272:ASN:HB2	1.98	0.45
1:8:621:LYS:HB2	1:8:643:PRO:HG3	1.99	0.45
1:8:657:ASP:OD1	1:8:657:ASP:N	2.48	0.45
1:A:227:ASN:OD1	1:E:403:GLN:HG3	2.17	0.45
1:A:269:SER:HB2	1:A:272:ASN:HB2	1.98	0.45
1:E:621:LYS:HB2	1:E:643:PRO:HG3	1.99	0.45
1:E:657:ASP:OD1	1:E:657:ASP:N	2.48	0.45
1:H:621:LYS:HB2	1:H:643:PRO:HG3	1.99	0.45
1:J:227:ASN:OD1	1:I:403:GLN:HG3	2.16	0.45
1:L:227:ASN:OD1	1:2:403:GLN:HG3	2.17	0.45
1:O:460:THR:HB	1:O:462:LYS:HE3	1.97	0.45
1:Q:227:ASN:OD1	1:S:403:GLN:HG3	2.16	0.45
1:Q:690:GLU:OE1	1:R:296:ARG:NH2	2.49	0.45
1:R:403:GLN:HG3	1:V:227:ASN:OD1	2.17	0.45
1:S:350:TYR:OH	1:S:643:PRO:O	2.32	0.45
1:S:630:HIS:O	1:S:632:SER:N	2.43	0.45
1:T:228:TRP:CE3	1:U:404:MET:HE3	2.49	0.45
1:U:227:ASN:OD1	1:4:403:GLN:HG3	2.17	0.45
1:U:566:ILE:HD12	1:U:730:ARG:HH12	1.80	0.45
1:Y:566:ILE:HD12	1:Y:730:ARG:HH12	1.80	0.45
1:Z:355:VAL:CG1	1:w:437:ASN:HB2	2.43	0.45
1:Z:403:GLN:HG3	1:1:227:ASN:OD1	2.17	0.45
1:3:621:LYS:HB2	1:3:643:PRO:HG3	1.99	0.45
1:c:621:LYS:HB2	1:c:643:PRO:HG3	1.99	0.45
1:g:566:ILE:HD12	1:g:730:ARG:HH12	1.80	0.45
1:k:231:ASP:OD1	1:k:242:THR:OG1	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:269:SER:HB2	1:l:272:ASN:HB2	1.98	0.45
1:n:290:HIS:HD2	1:n:366:PRO:HB3	1.81	0.45
1:n:657:ASP:OD1	1:n:657:ASP:N	2.48	0.45
1:o:227:ASN:OD1	1:v:403:GLN:HG3	2.17	0.45
1:o:269:SER:HB2	1:o:272:ASN:HB2	1.98	0.45
1:p:690:GLU:OE1	1:s:296:ARG:NH2	2.48	0.45
1:q:269:SER:HB2	1:q:272:ASN:HB2	1.98	0.45
1:v:227:ASN:OD1	1:w:403:GLN:HG3	2.17	0.45
1:x:621:LYS:HB2	1:x:643:PRO:HG3	1.99	0.45
1:7:716:ASN:ND2	1:7:718:GLU:OE2	2.48	0.45
1:A:309:ARG:NE	1:A:311:LYS:NZ	2.64	0.45
1:A:621:LYS:HB2	1:A:643:PRO:HG3	1.99	0.45
1:B:690:GLU:OE1	1:I:296:ARG:NH2	2.48	0.45
1:E:309:ARG:NE	1:E:311:LYS:NZ	2.65	0.45
1:F:460:THR:HB	1:F:462:LYS:HE3	1.97	0.45
1:J:290:HIS:HD2	1:J:366:PRO:HB3	1.81	0.45
1:N:437:ASN:HB2	1:P:355:VAL:CG1	2.43	0.45
1:P:227:ASN:OD1	1:Q:403:GLN:HG3	2.17	0.45
1:Q:546:GLN:NE2	1:Q:721:TYR:O	2.45	0.45
1:T:309:ARG:NE	1:T:311:LYS:NZ	2.64	0.45
1:T:630:HIS:O	1:T:632:SER:N	2.43	0.45
1:U:460:THR:HB	1:U:462:LYS:HE3	1.97	0.45
1:Y:269:SER:HB2	1:Y:272:ASN:HB2	1.98	0.45
1:2:227:ASN:OD1	1:i:403:GLN:HG3	2.17	0.45
1:4:460:THR:HB	1:4:462:LYS:HE3	1.97	0.45
1:5:437:ASN:HB2	1:b:355:VAL:CG1	2.43	0.45
1:c:546:GLN:NE2	1:c:721:TYR:O	2.45	0.45
1:d:460:THR:HB	1:d:462:LYS:HE3	1.97	0.45
1:d:566:ILE:HD12	1:d:730:ARG:HH12	1.80	0.45
1:e:403:GLN:HG3	1:q:227:ASN:OD1	2.17	0.45
1:e:621:LYS:HB2	1:e:643:PRO:HG3	1.99	0.45
1:f:350:TYR:OH	1:f:643:PRO:O	2.32	0.45
1:f:403:GLN:HG3	1:h:227:ASN:OD1	2.17	0.45
1:i:269:SER:HB2	1:i:272:ASN:HB2	1.98	0.45
1:k:621:LYS:HB2	1:k:643:PRO:HG3	1.99	0.45
1:n:227:ASN:OD1	1:z:403:GLN:HG3	2.17	0.45
1:o:261:SER:O	1:o:264:THR:OG1	2.26	0.45
1:o:290:HIS:HD2	1:o:366:PRO:HB3	1.81	0.45
1:q:309:ARG:NH2	1:q:686:GLU:OE1	2.31	0.45
1:q:309:ARG:NE	1:q:311:LYS:NZ	2.64	0.45
1:s:546:GLN:NE2	1:s:721:TYR:O	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:269:SER:HB2	1:t:272:ASN:HB2	1.98	0.45
1:v:290:HIS:HD2	1:v:366:PRO:HB3	1.81	0.45
1:v:630:HIS:O	1:v:632:SER:N	2.43	0.45
1:w:269:SER:HB2	1:w:272:ASN:HB2	1.98	0.45
1:7:290:HIS:HD2	1:7:366:PRO:HB3	1.81	0.45
1:7:350:TYR:OH	1:7:643:PRO:O	2.32	0.45
1:8:546:GLN:NE2	1:8:721:TYR:O	2.45	0.45
1:B:403:GLN:HG3	1:C:227:ASN:OD1	2.17	0.45
1:H:231:ASP:OD1	1:H:242:THR:OG1	2.33	0.45
1:J:657:ASP:N	1:J:657:ASP:OD1	2.48	0.45
1:K:621:LYS:HB2	1:K:643:PRO:HG3	1.99	0.45
1:L:290:HIS:HD2	1:L:366:PRO:HB3	1.81	0.45
1:L:309:ARG:NE	1:L:311:LYS:NZ	2.64	0.45
1:L:354:TYR:CZ	1:L:356:LEU:HB2	2.52	0.45
1:M:269:SER:HB2	1:M:272:ASN:HB2	1.98	0.45
1:S:309:ARG:NE	1:S:311:LYS:NZ	2.65	0.45
1:T:227:ASN:OD1	1:U:403:GLN:HG3	2.16	0.45
1:V:621:LYS:HB2	1:V:643:PRO:HG3	1.99	0.45
1:Z:404:MET:HE3	1:1:228:TRP:CE3	2.49	0.45
1:1:398:GLU:OE1	1:1:650:LYS:NZ	2.44	0.45
1:1:630:HIS:O	1:1:632:SER:N	2.43	0.45
1:a:290:HIS:HD2	1:a:366:PRO:HB3	1.81	0.45
1:a:309:ARG:NH2	1:a:686:GLU:OE1	2.31	0.45
1:a:546:GLN:NE2	1:a:721:TYR:O	2.45	0.45
1:b:227:ASN:OD1	1:c:403:GLN:HG3	2.17	0.45
1:d:309:ARG:NH2	1:d:686:GLU:OE1	2.31	0.45
1:e:309:ARG:NE	1:e:311:LYS:NZ	2.65	0.45
1:h:621:LYS:HB2	1:h:643:PRO:HG3	1.99	0.45
1:i:630:HIS:O	1:i:632:SER:N	2.43	0.45
1:m:269:SER:HB2	1:m:272:ASN:HB2	1.98	0.45
1:p:354:TYR:CZ	1:p:356:LEU:HB2	2.52	0.45
1:q:621:LYS:HB2	1:q:643:PRO:HG3	1.99	0.45
1:r:309:ARG:NE	1:r:311:LYS:NZ	2.65	0.45
1:z:398:GLU:OE1	1:z:650:LYS:NZ	2.44	0.45
1:B:354:TYR:CZ	1:B:356:LEU:HB2	2.52	0.45
1:B:437:ASN:HB2	1:J:355:VAL:CG1	2.43	0.45
1:D:546:GLN:NE2	1:D:721:TYR:O	2.45	0.45
1:F:227:ASN:OD1	1:G:403:GLN:HG3	2.17	0.45
1:G:309:ARG:NE	1:G:311:LYS:NZ	2.64	0.45
1:G:630:HIS:O	1:G:632:SER:N	2.43	0.45
1:H:354:TYR:CZ	1:H:356:LEU:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:546:GLN:NE2	1:I:721:TYR:O	2.45	0.45
1:L:261:SER:O	1:L:264:THR:OG1	2.26	0.45
1:P:621:LYS:HB2	1:P:643:PRO:HG3	1.99	0.45
1:Q:269:SER:HB2	1:Q:272:ASN:HB2	1.98	0.45
1:U:309:ARG:NE	1:U:311:LYS:NZ	2.65	0.45
1:d:227:ASN:OD1	1:r:403:GLN:HG3	2.17	0.45
1:h:546:GLN:NE2	1:h:721:TYR:O	2.45	0.45
1:i:290:HIS:HD2	1:i:366:PRO:HB3	1.81	0.45
1:k:354:TYR:CZ	1:k:356:LEU:HB2	2.52	0.45
1:m:309:ARG:NE	1:m:311:LYS:NZ	2.64	0.45
1:n:355:VAL:CG1	1:p:437:ASN:HB2	2.43	0.45
1:o:309:ARG:NE	1:o:311:LYS:NZ	2.65	0.45
1:o:354:TYR:CZ	1:o:356:LEU:HB2	2.52	0.45
1:p:403:GLN:HG3	1:u:227:ASN:OD1	2.17	0.45
1:r:630:HIS:O	1:r:632:SER:N	2.43	0.45
1:w:630:HIS:O	1:w:632:SER:N	2.43	0.45
1:x:231:ASP:OD1	1:x:242:THR:OG1	2.33	0.45
1:z:290:HIS:HD2	1:z:366:PRO:HB3	1.81	0.45
1:7:309:ARG:NH2	1:7:686:GLU:OE1	2.31	0.45
1:7:546:GLN:NE2	1:7:721:TYR:O	2.45	0.45
1:8:290:HIS:HD2	1:8:366:PRO:HB3	1.81	0.45
1:D:290:HIS:HD2	1:D:366:PRO:HB3	1.81	0.45
1:F:350:TYR:OH	1:F:643:PRO:O	2.32	0.45
1:F:566:ILE:HD12	1:F:730:ARG:HH12	1.80	0.45
1:J:228:TRP:CE3	1:1:404:MET:HE3	2.49	0.45
1:K:403:GLN:HG3	1:7:227:ASN:OD1	2.17	0.45
1:L:630:HIS:O	1:L:632:SER:N	2.43	0.45
1:O:350:TYR:OH	1:O:643:PRO:O	2.32	0.45
1:V:398:GLU:OE1	1:V:650:LYS:NZ	2.44	0.45
1:X:354:TYR:CZ	1:X:356:LEU:HB2	2.52	0.45
1:Y:309:ARG:NE	1:Y:311:LYS:NZ	2.64	0.45
1:b:621:LYS:HB2	1:b:643:PRO:HG3	1.99	0.45
1:c:269:SER:HB2	1:c:272:ASN:HB2	1.98	0.45
1:d:350:TYR:OH	1:d:643:PRO:O	2.32	0.45
1:e:290:HIS:HD2	1:e:366:PRO:HB3	1.81	0.45
1:f:404:MET:HE3	1:h:228:TRP:CE3	2.49	0.45
1:i:354:TYR:CZ	1:i:356:LEU:HB2	2.52	0.45
1:j:404:MET:HE3	1:z:228:TRP:CE3	2.49	0.45
1:t:403:GLN:HG3	1:x:227:ASN:OD1	2.17	0.45
1:y:621:LYS:HB2	1:y:643:PRO:HG3	1.99	0.45
1:z:630:HIS:O	1:z:632:SER:N	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:354:TYR:CZ	1:7:356:LEU:HB2	2.52	0.45
1:8:354:TYR:CZ	1:8:356:LEU:HB2	2.52	0.45
1:D:657:ASP:N	1:D:657:ASP:OD1	2.48	0.45
1:F:621:LYS:HB2	1:F:643:PRO:HG3	1.99	0.45
1:H:309:ARG:NE	1:H:311:LYS:NZ	2.65	0.45
1:I:657:ASP:N	1:I:657:ASP:OD1	2.48	0.45
1:M:290:HIS:HD2	1:M:366:PRO:HB3	1.81	0.45
1:M:403:GLN:HG3	1:3:227:ASN:OD1	2.17	0.45
1:P:350:TYR:OH	1:P:643:PRO:O	2.32	0.45
1:U:690:GLU:OE1	1:V:296:ARG:NH2	2.49	0.45
1:V:546:GLN:NE2	1:V:721:TYR:O	2.45	0.45
1:W:309:ARG:NE	1:W:311:LYS:NZ	2.64	0.45
1:X:309:ARG:NE	1:X:311:LYS:NZ	2.65	0.45
1:1:290:HIS:HD2	1:1:366:PRO:HB3	1.81	0.45
1:3:309:ARG:NH2	1:3:686:GLU:OE1	2.31	0.45
1:3:354:TYR:CZ	1:3:356:LEU:HB2	2.52	0.45
1:a:657:ASP:OD1	1:a:657:ASP:N	2.48	0.45
1:c:690:GLU:OE1	1:f:296:ARG:NH2	2.49	0.45
1:g:309:ARG:NE	1:g:311:LYS:NZ	2.65	0.45
1:g:354:TYR:CZ	1:g:356:LEU:HB2	2.52	0.45
1:l:309:ARG:NE	1:l:311:LYS:NZ	2.64	0.45
1:n:309:ARG:NE	1:n:311:LYS:NZ	2.65	0.45
1:q:290:HIS:HD2	1:q:366:PRO:HB3	1.81	0.45
1:q:354:TYR:CZ	1:q:356:LEU:HB2	2.52	0.45
1:t:261:SER:O	1:t:264:THR:OG1	2.26	0.45
1:w:290:HIS:HD2	1:w:366:PRO:HB3	1.81	0.45
1:w:354:TYR:CZ	1:w:356:LEU:HB2	2.52	0.45
1:x:354:TYR:CZ	1:x:356:LEU:HB2	2.52	0.45
1:A:354:TYR:CZ	1:A:356:LEU:HB2	2.52	0.44
1:D:403:GLN:HG3	1:E:227:ASN:OD1	2.17	0.44
1:E:290:HIS:HD2	1:E:366:PRO:HB3	1.81	0.44
1:G:398:GLU:OE1	1:G:650:LYS:NZ	2.44	0.44
1:H:227:ASN:OD1	1:I:403:GLN:HG3	2.16	0.44
1:J:309:ARG:NE	1:J:311:LYS:NZ	2.65	0.44
1:M:354:TYR:CZ	1:M:356:LEU:HB2	2.52	0.44
1:R:404:MET:HE3	1:V:228:TRP:CE3	2.49	0.44
1:3:231:ASP:OD1	1:3:242:THR:OG1	2.33	0.44
1:3:403:GLN:HG3	1:m:227:ASN:OD1	2.17	0.44
1:a:403:GLN:HG3	1:e:227:ASN:OD1	2.17	0.44
1:d:269:SER:HB2	1:d:272:ASN:HB2	1.98	0.44
1:d:309:ARG:NE	1:d:311:LYS:NZ	2.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:621:LYS:HB2	1:d:643:PRO:HG3	1.99	0.44
1:f:290:HIS:HD2	1:f:366:PRO:HB3	1.81	0.44
1:h:350:TYR:OH	1:h:643:PRO:O	2.32	0.44
1:j:269:SER:HB2	1:j:272:ASN:HB2	1.98	0.44
1:k:309:ARG:NE	1:k:311:LYS:NZ	2.65	0.44
1:l:290:HIS:HD2	1:l:366:PRO:HB3	1.81	0.44
1:q:231:ASP:OD1	1:q:242:THR:OG1	2.33	0.44
1:r:621:LYS:HB2	1:r:643:PRO:HG3	1.99	0.44
1:s:657:ASP:OD1	1:s:657:ASP:N	2.48	0.44
1:t:290:HIS:HD2	1:t:366:PRO:HB3	1.81	0.44
1:w:657:ASP:N	1:w:657:ASP:OD1	2.48	0.44
1:z:354:TYR:CZ	1:z:356:LEU:HB2	2.52	0.44
1:B:231:ASP:OD1	1:B:242:THR:OG1	2.33	0.44
1:B:269:SER:HB2	1:B:272:ASN:HB2	1.98	0.44
1:B:275:PHE:HB3	1:B:383:ASN:HB3	2.00	0.44
1:F:269:SER:HB2	1:F:272:ASN:HB2	1.98	0.44
1:F:309:ARG:NE	1:F:311:LYS:NZ	2.64	0.44
1:F:657:ASP:OD1	1:F:657:ASP:N	2.48	0.44
1:G:275:PHE:HB3	1:G:383:ASN:HB3	2.00	0.44
1:G:621:LYS:HB2	1:G:643:PRO:HG3	1.99	0.44
1:P:309:ARG:NE	1:P:311:LYS:NZ	2.65	0.44
1:S:621:LYS:HB2	1:S:643:PRO:HG3	1.99	0.44
1:S:694:ARG:HH21	1:S:696:ASN:CG	2.26	0.44
1:T:621:LYS:HB2	1:T:643:PRO:HG3	1.99	0.44
1:V:350:TYR:OH	1:V:643:PRO:O	2.32	0.44
1:X:275:PHE:HB3	1:X:383:ASN:HB3	2.00	0.44
1:Y:694:ARG:HH21	1:Y:696:ASN:CG	2.26	0.44
1:Z:269:SER:HB2	1:Z:272:ASN:HB2	1.98	0.44
1:Z:621:LYS:HB2	1:Z:643:PRO:HG3	1.99	0.44
1:1:354:TYR:CZ	1:1:356:LEU:HB2	2.52	0.44
1:4:227:ASN:OD1	1:b:403:GLN:HG3	2.17	0.44
1:b:309:ARG:NE	1:b:311:LYS:NZ	2.64	0.44
1:d:403:GLN:HG3	1:f:227:ASN:OD1	2.16	0.44
1:h:354:TYR:CZ	1:h:356:LEU:HB2	2.52	0.44
1:h:398:GLU:OE1	1:h:650:LYS:NZ	2.44	0.44
1:k:227:ASN:OD1	1:s:403:GLN:HG3	2.16	0.44
1:m:694:ARG:HH21	1:m:696:ASN:CG	2.26	0.44
1:o:630:HIS:O	1:o:632:SER:N	2.43	0.44
1:r:275:PHE:HB3	1:r:383:ASN:HB3	2.00	0.44
1:t:354:TYR:CZ	1:t:356:LEU:HB2	2.52	0.44
1:u:269:SER:HB2	1:u:272:ASN:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:398:GLU:OE1	1:w:650:LYS:NZ	2.44	0.44
1:y:309:ARG:NE	1:y:311:LYS:NZ	2.64	0.44
1:A:290:HIS:HD2	1:A:366:PRO:HB3	1.81	0.44
1:A:403:GLN:HG3	1:B:227:ASN:OD1	2.17	0.44
1:B:398:GLU:OE1	1:B:650:LYS:NZ	2.44	0.44
1:B:621:LYS:HB2	1:B:643:PRO:HG3	1.99	0.44
1:C:269:SER:HB2	1:C:272:ASN:HB2	1.98	0.44
1:C:275:PHE:HB3	1:C:383:ASN:HB3	2.00	0.44
1:C:621:LYS:HB2	1:C:643:PRO:HG3	1.99	0.44
1:D:621:LYS:HB2	1:D:643:PRO:HG3	1.99	0.44
1:E:354:TYR:CZ	1:E:356:LEU:HB2	2.52	0.44
1:G:354:TYR:CZ	1:G:356:LEU:HB2	2.52	0.44
1:G:654:VAL:HG12	1:G:671:ILE:HD12	2.00	0.44
1:H:657:ASP:OD1	1:H:657:ASP:N	2.48	0.44
1:I:227:ASN:OD1	1:J:403:GLN:HG3	2.17	0.44
1:I:311:LYS:CE	1:I:686:GLU:CB	2.86	0.44
1:L:275:PHE:HB3	1:L:383:ASN:HB3	2.00	0.44
1:M:261:SER:O	1:M:264:THR:OG1	2.26	0.44
1:M:694:ARG:HH21	1:M:696:ASN:CG	2.26	0.44
1:R:275:PHE:HB3	1:R:383:ASN:HB3	2.00	0.44
1:S:690:GLU:OE1	1:T:296:ARG:NH2	2.50	0.44
1:T:694:ARG:HH21	1:T:696:ASN:CG	2.26	0.44
1:V:354:TYR:CZ	1:V:356:LEU:HB2	2.52	0.44
1:W:275:PHE:HB3	1:W:383:ASN:HB3	2.00	0.44
1:W:290:HIS:HD2	1:W:366:PRO:HB3	1.81	0.44
1:Y:227:ASN:OD1	1:x:403:GLN:HG3	2.17	0.44
1:Y:275:PHE:HB3	1:Y:383:ASN:HB3	2.00	0.44
1:d:657:ASP:N	1:d:657:ASP:OD1	2.48	0.44
1:e:354:TYR:CZ	1:e:356:LEU:HB2	2.52	0.44
1:e:546:GLN:NE2	1:e:721:TYR:O	2.45	0.44
1:g:275:PHE:HB3	1:g:383:ASN:HB3	2.00	0.44
1:i:657:ASP:OD1	1:i:657:ASP:N	2.48	0.44
1:l:275:PHE:HB3	1:l:383:ASN:HB3	2.00	0.44
1:m:275:PHE:HB3	1:m:383:ASN:HB3	2.00	0.44
1:n:228:TRP:CE3	1:z:404:MET:HE3	2.49	0.44
1:p:269:SER:HB2	1:p:272:ASN:HB2	1.98	0.44
1:p:275:PHE:HB3	1:p:383:ASN:HB3	2.00	0.44
1:p:621:LYS:HB2	1:p:643:PRO:HG3	1.99	0.44
1:r:354:TYR:CZ	1:r:356:LEU:HB2	2.52	0.44
1:t:694:ARG:HH21	1:t:696:ASN:CG	2.26	0.44
1:x:657:ASP:N	1:x:657:ASP:OD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:398:GLU:OE1	1:A:650:LYS:NZ	2.44	0.44
1:B:654:VAL:HG12	1:B:671:ILE:HD12	2.00	0.44
1:D:354:TYR:CZ	1:D:356:LEU:HB2	2.52	0.44
1:E:521:GLY:O	1:E:634:LEU:HD22	2.18	0.44
1:E:694:ARG:HH21	1:E:696:ASN:CG	2.26	0.44
1:F:275:PHE:HB3	1:F:383:ASN:HB3	2.00	0.44
1:F:299:GLN:NE2	1:F:701:TYR:O	2.51	0.44
1:H:350:TYR:OH	1:H:643:PRO:O	2.32	0.44
1:K:309:ARG:NE	1:K:311:LYS:NZ	2.64	0.44
1:K:354:TYR:CZ	1:K:356:LEU:HB2	2.52	0.44
1:P:694:ARG:HH21	1:P:696:ASN:CG	2.26	0.44
1:R:269:SER:HB2	1:R:272:ASN:HB2	1.98	0.44
1:R:437:ASN:HB2	1:S:355:VAL:CG1	2.43	0.44
1:U:354:TYR:CZ	1:U:356:LEU:HB2	2.52	0.44
1:X:398:GLU:OE1	1:X:650:LYS:NZ	2.44	0.44
1:1:654:VAL:HG12	1:1:671:ILE:HD12	2.00	0.44
1:5:299:GLN:NE2	1:5:701:TYR:O	2.51	0.44
1:a:354:TYR:CZ	1:a:356:LEU:HB2	2.52	0.44
1:a:621:LYS:HB2	1:a:643:PRO:HG3	1.99	0.44
1:d:275:PHE:HB3	1:d:383:ASN:HB3	2.00	0.44
1:d:299:GLN:NE2	1:d:701:TYR:O	2.51	0.44
1:e:521:GLY:O	1:e:634:LEU:HD22	2.18	0.44
1:e:694:ARG:HH21	1:e:696:ASN:CG	2.26	0.44
1:f:275:PHE:HB3	1:f:383:ASN:HB3	2.00	0.44
1:g:521:GLY:O	1:g:634:LEU:HD22	2.18	0.44
1:j:621:LYS:HB2	1:j:643:PRO:HG3	1.99	0.44
1:k:657:ASP:OD1	1:k:657:ASP:N	2.48	0.44
1:o:275:PHE:HB3	1:o:383:ASN:HB3	2.00	0.44
1:p:227:ASN:OD1	1:q:403:GLN:HG3	2.17	0.44
1:p:654:VAL:HG12	1:p:671:ILE:HD12	2.00	0.44
1:r:654:VAL:HG12	1:r:671:ILE:HD12	2.00	0.44
1:u:275:PHE:HB3	1:u:383:ASN:HB3	2.00	0.44
1:y:275:PHE:HB3	1:y:383:ASN:HB3	2.00	0.44
1:y:354:TYR:CZ	1:y:356:LEU:HB2	2.52	0.44
1:y:654:VAL:HG12	1:y:671:ILE:HD12	2.00	0.44
1:z:654:VAL:HG12	1:z:671:ILE:HD12	2.00	0.44
1:C:350:TYR:OH	1:C:643:PRO:O	2.32	0.44
1:C:654:VAL:HG12	1:C:671:ILE:HD12	2.00	0.44
1:E:299:GLN:NE2	1:E:701:TYR:O	2.51	0.44
1:E:546:GLN:NE2	1:E:721:TYR:O	2.45	0.44
1:F:403:GLN:HG3	1:R:227:ASN:OD1	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:269:SER:HB2	1:H:272:ASN:HB2	1.98	0.44
1:H:694:ARG:HH21	1:H:696:ASN:CG	2.26	0.44
1:I:694:ARG:HH21	1:I:696:ASN:CG	2.26	0.44
1:K:275:PHE:HB3	1:K:383:ASN:HB3	2.00	0.44
1:K:654:VAL:HG12	1:K:671:ILE:HD12	2.00	0.44
1:M:521:GLY:O	1:M:634:LEU:HD22	2.18	0.44
1:N:299:GLN:NE2	1:N:701:TYR:O	2.51	0.44
1:N:521:GLY:O	1:N:634:LEU:HD22	2.18	0.44
1:O:227:ASN:OD1	1:P:403:GLN:HG3	2.17	0.44
1:O:654:VAL:HG12	1:O:671:ILE:HD12	2.00	0.44
1:R:290:HIS:HD2	1:R:366:PRO:HB3	1.81	0.44
1:R:299:GLN:NE2	1:R:701:TYR:O	2.51	0.44
1:R:694:ARG:HH21	1:R:696:ASN:CG	2.26	0.44
1:T:521:GLY:O	1:T:634:LEU:HD22	2.18	0.44
1:U:299:GLN:NE2	1:U:701:TYR:O	2.51	0.44
1:V:261:SER:O	1:V:264:THR:OG1	2.26	0.44
1:Z:354:TYR:CZ	1:Z:356:LEU:HB2	2.52	0.44
1:2:354:TYR:CZ	1:2:356:LEU:HB2	2.52	0.44
1:3:657:ASP:OD1	1:3:657:ASP:N	2.48	0.44
1:5:354:TYR:CZ	1:5:356:LEU:HB2	2.52	0.44
1:b:694:ARG:HH21	1:b:696:ASN:CG	2.26	0.44
1:e:299:GLN:NE2	1:e:701:TYR:O	2.51	0.44
1:f:299:GLN:NE2	1:f:701:TYR:O	2.51	0.44
1:f:657:ASP:OD1	1:f:657:ASP:N	2.48	0.44
1:f:694:ARG:HH21	1:f:696:ASN:CG	2.26	0.44
1:h:261:SER:O	1:h:264:THR:OG1	2.26	0.44
1:h:309:ARG:NE	1:h:311:LYS:NZ	2.64	0.44
1:i:227:ASN:OD1	1:7:403:GLN:HG3	2.17	0.44
1:i:694:ARG:HH21	1:i:696:ASN:CG	2.26	0.44
1:j:354:TYR:CZ	1:j:356:LEU:HB2	2.52	0.44
1:k:269:SER:HB2	1:k:272:ASN:HB2	1.98	0.44
1:k:694:ARG:HH21	1:k:696:ASN:CG	2.26	0.44
1:l:545:LYS:O	1:l:548:THR:OG1	2.34	0.44
1:m:654:VAL:HG12	1:m:671:ILE:HD12	2.00	0.44
1:n:403:GLN:HG3	1:s:227:ASN:OD1	2.17	0.44
1:r:398:GLU:OE1	1:r:650:LYS:NZ	2.44	0.44
1:s:694:ARG:HH21	1:s:696:ASN:CG	2.26	0.44
1:t:521:GLY:O	1:t:634:LEU:HD22	2.18	0.44
1:u:621:LYS:HB2	1:u:643:PRO:HG3	1.99	0.44
1:u:654:VAL:HG12	1:u:671:ILE:HD12	2.00	0.44
1:v:275:PHE:HB3	1:v:383:ASN:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:299:GLN:NE2	1:v:701:TYR:O	2.51	0.44
1:v:354:TYR:CZ	1:v:356:LEU:HB2	2.52	0.44
1:C:311:LYS:CE	1:C:686:GLU:CB	2.86	0.44
1:D:309:ARG:NE	1:D:311:LYS:NZ	2.64	0.44
1:G:484:TYR:CE2	1:G:507:SER:HB3	2.53	0.44
1:I:354:TYR:CZ	1:I:356:LEU:HB2	2.52	0.44
1:I:621:LYS:HB2	1:I:643:PRO:HG3	1.99	0.44
1:M:484:TYR:CE2	1:M:507:SER:HB3	2.53	0.44
1:N:354:TYR:CZ	1:N:356:LEU:HB2	2.52	0.44
1:O:484:TYR:CE2	1:O:507:SER:HB3	2.53	0.44
1:O:694:ARG:HH21	1:O:696:ASN:CG	2.26	0.44
1:R:484:TYR:CE2	1:R:507:SER:HB3	2.53	0.44
1:X:521:GLY:O	1:X:634:LEU:HD22	2.18	0.44
1:Y:484:TYR:CE2	1:Y:507:SER:HB3	2.53	0.44
1:Y:654:VAL:HG12	1:Y:671:ILE:HD12	2.00	0.44
1:1:269:SER:HB2	1:1:272:ASN:HB2	1.98	0.44
1:1:565:GLU:HG3	1:8:391:ARG:NH2	2.33	0.44
1:2:275:PHE:HB3	1:2:383:ASN:HB3	2.00	0.44
1:2:299:GLN:NE2	1:2:701:TYR:O	2.51	0.44
1:2:521:GLY:O	1:2:634:LEU:HD22	2.18	0.44
1:3:694:ARG:HH21	1:3:696:ASN:CG	2.26	0.44
1:4:484:TYR:CE2	1:4:507:SER:HB3	2.53	0.44
1:4:654:VAL:HG12	1:4:671:ILE:HD12	2.00	0.44
1:5:521:GLY:O	1:5:634:LEU:HD22	2.18	0.44
1:b:354:TYR:CZ	1:b:356:LEU:HB2	2.52	0.44
1:d:231:ASP:OD1	1:d:242:THR:OG1	2.33	0.44
1:f:269:SER:HB2	1:f:272:ASN:HB2	1.98	0.44
1:i:398:GLU:OE1	1:i:650:LYS:NZ	2.44	0.44
1:i:621:LYS:HB2	1:i:643:PRO:HG3	1.99	0.44
1:m:484:TYR:CE2	1:m:507:SER:HB3	2.53	0.44
1:n:354:TYR:CZ	1:n:356:LEU:HB2	2.52	0.44
1:p:398:GLU:OE1	1:p:650:LYS:NZ	2.44	0.44
1:q:398:GLU:OE1	1:q:650:LYS:NZ	2.44	0.44
1:r:484:TYR:CE2	1:r:507:SER:HB3	2.53	0.44
1:s:269:SER:HB2	1:s:272:ASN:HB2	1.98	0.44
1:s:621:LYS:HB2	1:s:643:PRO:HG3	1.99	0.44
1:t:437:ASN:HB2	1:u:355:VAL:CG1	2.43	0.44
1:t:654:VAL:HG12	1:t:671:ILE:HD12	2.00	0.44
1:u:350:TYR:OH	1:u:643:PRO:O	2.32	0.44
1:w:621:LYS:HB2	1:w:643:PRO:HG3	1.99	0.44
1:w:694:ARG:HH21	1:w:696:ASN:CG	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:694:ARG:HH21	1:x:696:ASN:CG	2.26	0.44
1:F:354:TYR:CZ	1:F:356:LEU:HB2	2.52	0.44
1:G:269:SER:HB2	1:G:272:ASN:HB2	1.98	0.44
1:I:299:GLN:NE2	1:I:701:TYR:O	2.51	0.44
1:J:354:TYR:CZ	1:J:356:LEU:HB2	2.52	0.44
1:K:309:ARG:HH21	1:K:686:GLU:CD	2.23	0.44
1:M:654:VAL:HG12	1:M:671:ILE:HD12	2.00	0.44
1:N:484:TYR:CE2	1:N:507:SER:HB3	2.53	0.44
1:O:621:LYS:HB2	1:O:643:PRO:HG3	1.99	0.44
1:P:354:TYR:CZ	1:P:356:LEU:HB2	2.52	0.44
1:Q:694:ARG:HH21	1:Q:696:ASN:CG	2.26	0.44
1:S:521:GLY:O	1:S:634:LEU:HD22	2.18	0.44
1:T:403:GLN:HG3	1:c:227:ASN:OD1	2.18	0.44
1:V:269:SER:HB2	1:V:272:ASN:HB2	1.98	0.44
1:V:309:ARG:NE	1:V:311:LYS:NZ	2.65	0.44
1:W:484:TYR:CE2	1:W:507:SER:HB3	2.53	0.44
1:X:227:ASN:OD1	1:Y:403:GLN:HG3	2.17	0.44
1:X:484:TYR:CE2	1:X:507:SER:HB3	2.53	0.44
1:Z:521:GLY:O	1:Z:634:LEU:HD22	2.18	0.44
1:Z:694:ARG:HH21	1:Z:696:ASN:CG	2.26	0.44
1:1:299:GLN:NE2	1:1:701:TYR:O	2.51	0.44
1:3:299:GLN:NE2	1:3:701:TYR:O	2.51	0.44
1:4:694:ARG:HH21	1:4:696:ASN:CG	2.26	0.44
1:5:484:TYR:CE2	1:5:507:SER:HB3	2.53	0.44
1:a:309:ARG:NE	1:a:311:LYS:NZ	2.64	0.44
1:a:391:ARG:NH2	1:b:565:GLU:HG3	2.33	0.44
1:b:311:LYS:CE	1:b:686:GLU:CB	2.86	0.44
1:c:484:TYR:CE2	1:c:507:SER:HB3	2.53	0.44
1:c:694:ARG:HH21	1:c:696:ASN:CG	2.26	0.44
1:e:654:VAL:HG12	1:e:671:ILE:HD12	2.00	0.44
1:f:484:TYR:CE2	1:f:507:SER:HB3	2.53	0.44
1:g:398:GLU:OE1	1:g:650:LYS:NZ	2.44	0.44
1:h:694:ARG:HH21	1:h:696:ASN:CG	2.26	0.44
1:i:275:PHE:HB3	1:i:383:ASN:HB3	2.00	0.44
1:j:484:TYR:CE2	1:j:507:SER:HB3	2.53	0.44
1:j:694:ARG:HH21	1:j:696:ASN:CG	2.26	0.44
1:s:299:GLN:NE2	1:s:701:TYR:O	2.51	0.44
1:s:354:TYR:CZ	1:s:356:LEU:HB2	2.52	0.44
1:v:521:GLY:O	1:v:634:LEU:HD22	2.18	0.44
1:x:299:GLN:NE2	1:x:701:TYR:O	2.51	0.44
1:z:269:SER:HB2	1:z:272:ASN:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:299:GLN:NE2	1:z:701:TYR:O	2.51	0.44
1:7:521:GLY:O	1:7:634:LEU:HD22	2.18	0.44
1:8:521:GLY:O	1:8:634:LEU:HD22	2.18	0.44
1:B:484:TYR:CE2	1:B:507:SER:HB3	2.53	0.44
1:B:521:GLY:O	1:B:634:LEU:HD22	2.18	0.44
1:D:391:ARG:NH2	1:P:565:GLU:HG3	2.33	0.44
1:F:521:GLY:O	1:F:634:LEU:HD22	2.18	0.44
1:I:269:SER:HB2	1:I:272:ASN:HB2	1.98	0.44
1:J:275:PHE:HB3	1:J:383:ASN:HB3	2.00	0.44
1:K:389:VAL:HG12	1:K:391:ARG:H	1.83	0.44
1:K:694:ARG:HH21	1:K:696:ASN:CG	2.26	0.44
1:N:694:ARG:HH21	1:N:696:ASN:CG	2.26	0.44
1:Q:484:TYR:CE2	1:Q:507:SER:HB3	2.53	0.44
1:R:657:ASP:N	1:R:657:ASP:OD1	2.48	0.44
1:S:354:TYR:CZ	1:S:356:LEU:HB2	2.52	0.44
1:T:354:TYR:CZ	1:T:356:LEU:HB2	2.52	0.44
1:U:694:ARG:HH21	1:U:696:ASN:CG	2.26	0.44
1:V:521:GLY:O	1:V:634:LEU:HD22	2.18	0.44
1:V:694:ARG:HH21	1:V:696:ASN:CG	2.26	0.44
1:Y:354:TYR:CZ	1:Y:356:LEU:HB2	2.52	0.44
1:Z:484:TYR:CE2	1:Z:507:SER:HB3	2.53	0.44
1:1:484:TYR:CE2	1:1:507:SER:HB3	2.53	0.44
1:1:621:LYS:HB2	1:1:643:PRO:HG3	1.99	0.44
1:4:621:LYS:HB2	1:4:643:PRO:HG3	1.99	0.44
1:c:354:TYR:CZ	1:c:356:LEU:HB2	2.52	0.44
1:d:389:VAL:HG12	1:d:391:ARG:H	1.83	0.44
1:g:227:ASN:OD1	1:m:403:GLN:HG3	2.17	0.44
1:g:484:TYR:CE2	1:g:507:SER:HB3	2.53	0.44
1:h:521:GLY:O	1:h:634:LEU:HD22	2.18	0.44
1:j:521:GLY:O	1:j:634:LEU:HD22	2.18	0.44
1:l:484:TYR:CE2	1:l:507:SER:HB3	2.53	0.44
1:n:275:PHE:HB3	1:n:383:ASN:HB3	2.00	0.44
1:o:403:GLN:HG3	1:y:227:ASN:OD1	2.17	0.44
1:r:269:SER:HB2	1:r:272:ASN:HB2	1.98	0.44
1:r:657:ASP:N	1:r:657:ASP:OD1	2.48	0.44
1:s:231:ASP:OD1	1:s:242:THR:OG1	2.33	0.44
1:t:484:TYR:CE2	1:t:507:SER:HB3	2.53	0.44
1:w:227:ASN:OD1	1:8:403:GLN:HG3	2.17	0.44
1:y:546:GLN:NE2	1:y:721:TYR:O	2.45	0.44
1:z:484:TYR:CE2	1:z:507:SER:HB3	2.53	0.44
1:z:621:LYS:HB2	1:z:643:PRO:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:275:PHE:HB3	1:7:383:ASN:HB3	2.00	0.44
1:C:355:VAL:CG1	1:M:437:ASN:HB2	2.43	0.44
1:C:484:TYR:CE2	1:C:507:SER:HB3	2.53	0.44
1:D:404:MET:HE3	1:E:228:TRP:CE3	2.51	0.44
1:E:654:VAL:HG12	1:E:671:ILE:HD12	2.00	0.44
1:F:231:ASP:OD1	1:F:242:THR:OG1	2.33	0.44
1:F:389:VAL:HG12	1:F:391:ARG:H	1.83	0.44
1:G:521:GLY:O	1:G:634:LEU:HD22	2.18	0.44
1:G:657:ASP:N	1:G:657:ASP:OD1	2.48	0.44
1:J:484:TYR:CE2	1:J:507:SER:HB3	2.53	0.44
1:M:514:ARG:HD2	1:2:434:ARG:NH2	2.33	0.44
1:Q:354:TYR:CZ	1:Q:356:LEU:HB2	2.52	0.44
1:U:290:HIS:HD2	1:U:366:PRO:HB3	1.81	0.44
1:V:545:LYS:O	1:V:548:THR:OG1	2.34	0.44
1:W:437:ASN:HB2	1:Y:355:VAL:CG1	2.43	0.44
1:W:654:VAL:HG12	1:W:671:ILE:HD12	2.00	0.44
1:W:657:ASP:N	1:W:657:ASP:OD1	2.48	0.44
1:X:389:VAL:HG12	1:X:391:ARG:H	1.83	0.44
1:1:275:PHE:HB3	1:1:383:ASN:HB3	2.00	0.44
1:1:521:GLY:O	1:1:634:LEU:HD22	2.18	0.44
1:2:484:TYR:CE2	1:2:507:SER:HB3	2.53	0.44
1:5:694:ARG:HH21	1:5:696:ASN:CG	2.26	0.44
1:c:437:ASN:HB2	1:d:355:VAL:CG1	2.43	0.44
1:c:521:GLY:O	1:c:634:LEU:HD22	2.18	0.44
1:d:354:TYR:CZ	1:d:356:LEU:HB2	2.52	0.44
1:d:521:GLY:O	1:d:634:LEU:HD22	2.18	0.44
1:m:354:TYR:CZ	1:m:356:LEU:HB2	2.52	0.44
1:p:484:TYR:CE2	1:p:507:SER:HB3	2.53	0.44
1:t:514:ARG:HD2	1:v:434:ARG:NH2	2.33	0.44
1:v:484:TYR:CE2	1:v:507:SER:HB3	2.53	0.44
1:w:275:PHE:HB3	1:w:383:ASN:HB3	2.00	0.44
1:y:389:VAL:HG12	1:y:391:ARG:H	1.83	0.44
1:8:275:PHE:HB3	1:8:383:ASN:HB3	2.00	0.44
1:C:480:PRO:HB3	1:2:511:LEU:HD12	2.00	0.43
1:E:484:TYR:CE2	1:E:507:SER:HB3	2.53	0.43
1:F:355:VAL:CG1	1:Q:437:ASN:HB2	2.43	0.43
1:G:694:ARG:HH21	1:G:696:ASN:CG	2.26	0.43
1:I:398:GLU:OE1	1:I:650:LYS:NZ	2.44	0.43
1:J:654:VAL:HG12	1:J:671:ILE:HD12	2.00	0.43
1:K:484:TYR:CE2	1:K:507:SER:HB3	2.53	0.43
1:L:694:ARG:HH21	1:L:696:ASN:CG	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:391:ARG:NH2	1:2:565:GLU:HG3	2.33	0.43
1:O:521:GLY:O	1:O:634:LEU:HD22	2.18	0.43
1:P:654:VAL:HG12	1:P:671:ILE:HD12	2.00	0.43
1:Q:521:GLY:O	1:Q:634:LEU:HD22	2.18	0.43
1:T:707:LYS:NZ	1:U:384:ASP:OD2	2.38	0.43
1:V:309:ARG:HH21	1:V:686:GLU:CD	2.23	0.43
1:g:389:VAL:HG12	1:g:391:ARG:H	1.83	0.43
1:h:269:SER:HB2	1:h:272:ASN:HB2	1.98	0.43
1:h:309:ARG:HH21	1:h:686:GLU:CD	2.23	0.43
1:l:621:LYS:HB2	1:l:643:PRO:HG3	1.99	0.43
1:l:654:VAL:HG12	1:l:671:ILE:HD12	2.00	0.43
1:l:657:ASP:N	1:l:657:ASP:OD1	2.48	0.43
1:n:484:TYR:CE2	1:n:507:SER:HB3	2.53	0.43
1:n:654:VAL:HG12	1:n:671:ILE:HD12	2.00	0.43
1:p:521:GLY:O	1:p:634:LEU:HD22	2.18	0.43
1:r:521:GLY:O	1:r:634:LEU:HD22	2.18	0.43
1:s:275:PHE:HB3	1:s:383:ASN:HB3	2.00	0.43
1:u:480:PRO:HB3	1:v:511:LEU:HD12	2.00	0.43
1:u:484:TYR:CE2	1:u:507:SER:HB3	2.53	0.43
1:y:403:GLN:HG3	1:8:227:ASN:OD1	2.18	0.43
1:y:484:TYR:CE2	1:y:507:SER:HB3	2.53	0.43
1:z:275:PHE:HB3	1:z:383:ASN:HB3	2.00	0.43
1:z:480:PRO:HB3	1:7:511:LEU:HD12	2.00	0.43
1:z:521:GLY:O	1:z:634:LEU:HD22	2.18	0.43
1:8:484:TYR:CE2	1:8:507:SER:HB3	2.53	0.43
1:8:654:VAL:HG12	1:8:671:ILE:HD12	2.00	0.43
1:8:694:ARG:HH21	1:8:696:ASN:CG	2.26	0.43
1:B:694:ARG:HH21	1:B:696:ASN:CG	2.26	0.43
1:I:231:ASP:OD1	1:I:242:THR:OG1	2.33	0.43
1:J:621:LYS:HB2	1:J:643:PRO:HG3	1.99	0.43
1:O:389:VAL:HG12	1:O:391:ARG:H	1.83	0.43
1:P:311:LYS:CE	1:P:686:GLU:CB	2.86	0.43
1:Q:389:VAL:HG12	1:Q:391:ARG:H	1.83	0.43
1:T:299:GLN:NE2	1:T:701:TYR:O	2.51	0.43
1:V:275:PHE:HB3	1:V:383:ASN:HB3	2.00	0.43
1:W:621:LYS:HB2	1:W:643:PRO:HG3	1.99	0.43
1:Y:521:GLY:O	1:Y:634:LEU:HD22	2.18	0.43
1:4:521:GLY:O	1:4:634:LEU:HD22	2.18	0.43
1:5:480:PRO:HB3	1:b:511:LEU:HD12	2.00	0.43
1:a:404:MET:HE3	1:e:228:TRP:CE3	2.51	0.43
1:b:654:VAL:HG12	1:b:671:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:389:VAL:HG12	1:c:391:ARG:H	1.83	0.43
1:e:484:TYR:CE2	1:e:507:SER:HB3	2.53	0.43
1:h:275:PHE:HB3	1:h:383:ASN:HB3	2.00	0.43
1:l:437:ASN:HB2	1:m:355:VAL:CG1	2.43	0.43
1:n:621:LYS:HB2	1:n:643:PRO:HG3	1.99	0.43
1:o:521:GLY:O	1:o:634:LEU:HD22	2.18	0.43
1:o:694:ARG:HH21	1:o:696:ASN:CG	2.26	0.43
1:t:391:ARG:NH2	1:v:565:GLU:HG3	2.33	0.43
1:u:311:LYS:CE	1:u:686:GLU:CB	2.86	0.43
1:y:694:ARG:HH21	1:y:696:ASN:CG	2.26	0.43
1:B:389:VAL:HG12	1:B:391:ARG:H	1.83	0.43
1:B:511:LEU:HD12	1:L:480:PRO:HB3	2.01	0.43
1:C:299:GLN:NE2	1:C:701:TYR:O	2.51	0.43
1:E:389:VAL:HG12	1:E:391:ARG:H	1.83	0.43
1:H:275:PHE:HB3	1:H:383:ASN:HB3	2.00	0.43
1:H:311:LYS:CE	1:H:686:GLU:CB	2.86	0.43
1:I:275:PHE:HB3	1:I:383:ASN:HB3	2.00	0.43
1:K:227:ASN:OD1	1:L:403:GLN:HG3	2.17	0.43
1:N:480:PRO:HB3	1:P:511:LEU:HD12	2.01	0.43
1:O:354:TYR:CZ	1:O:356:LEU:HB2	2.52	0.43
1:P:389:VAL:HG12	1:P:391:ARG:H	1.83	0.43
1:S:299:GLN:NE2	1:S:701:TYR:O	2.51	0.43
1:V:480:PRO:HB3	1:4:511:LEU:HD12	2.00	0.43
1:W:389:VAL:HG12	1:W:391:ARG:H	1.83	0.43
1:1:434:ARG:NH2	1:8:514:ARG:HD2	2.32	0.43
1:2:290:HIS:HD2	1:2:366:PRO:HB3	1.81	0.43
1:3:511:LEU:HD12	1:j:480:PRO:HB3	2.00	0.43
1:4:389:VAL:HG12	1:4:391:ARG:H	1.83	0.43
1:4:398:GLU:OE1	1:4:650:LYS:NZ	2.44	0.43
1:b:389:VAL:HG12	1:b:391:ARG:H	1.83	0.43
1:b:484:TYR:CE2	1:b:507:SER:HB3	2.53	0.43
1:d:546:GLN:NE2	1:d:721:TYR:O	2.45	0.43
1:h:545:LYS:O	1:h:548:THR:OG1	2.34	0.43
1:i:480:PRO:HB3	1:j:511:LEU:HD12	2.00	0.43
1:k:275:PHE:HB3	1:k:383:ASN:HB3	2.00	0.43
1:k:389:VAL:HG12	1:k:391:ARG:H	1.83	0.43
1:l:389:VAL:HG12	1:l:391:ARG:H	1.83	0.43
1:m:521:GLY:O	1:m:634:LEU:HD22	2.18	0.43
1:p:694:ARG:HH21	1:p:696:ASN:CG	2.26	0.43
1:t:676:THR:HG22	1:t:677:GLY:N	2.34	0.43
1:x:231:ASP:N	1:x:242:THR:OG1	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:484:TYR:CE2	1:x:507:SER:HB3	2.53	0.43
1:7:484:TYR:CE2	1:7:507:SER:HB3	2.53	0.43
1:7:654:VAL:HG12	1:7:671:ILE:HD12	2.00	0.43
1:7:694:ARG:HH21	1:7:696:ASN:CG	2.26	0.43
1:A:275:PHE:HB3	1:A:383:ASN:HB3	2.00	0.43
1:A:521:GLY:O	1:A:634:LEU:HD22	2.18	0.43
1:C:354:TYR:CZ	1:C:356:LEU:HB2	2.52	0.43
1:C:657:ASP:OD1	1:C:657:ASP:N	2.48	0.43
1:C:676:THR:HG22	1:C:677:GLY:N	2.34	0.43
1:D:514:ARG:HD2	1:P:434:ARG:NH2	2.33	0.43
1:D:521:GLY:O	1:D:634:LEU:HD22	2.18	0.43
1:F:511:LEU:HD12	1:Q:480:PRO:HB3	2.00	0.43
1:K:676:THR:HG22	1:K:677:GLY:N	2.34	0.43
1:L:521:GLY:O	1:L:634:LEU:HD22	2.18	0.43
1:M:389:VAL:HG12	1:M:391:ARG:H	1.83	0.43
1:M:676:THR:HG22	1:M:677:GLY:N	2.34	0.43
1:P:484:TYR:CE2	1:P:507:SER:HB3	2.53	0.43
1:S:484:TYR:CE2	1:S:507:SER:HB3	2.53	0.43
1:V:484:TYR:CE2	1:V:507:SER:HB3	2.53	0.43
1:Z:480:PRO:HB3	1:x:511:LEU:HD12	2.00	0.43
1:Z:511:LEU:HD12	1:w:480:PRO:HB3	2.01	0.43
1:3:484:TYR:CE2	1:3:507:SER:HB3	2.53	0.43
1:3:521:GLY:O	1:3:634:LEU:HD22	2.18	0.43
1:a:521:GLY:O	1:a:634:LEU:HD22	2.18	0.43
1:b:521:GLY:O	1:b:634:LEU:HD22	2.18	0.43
1:c:480:PRO:HB3	1:d:511:LEU:HD12	2.01	0.43
1:k:311:LYS:CE	1:k:686:GLU:CB	2.86	0.43
1:l:630:HIS:O	1:l:632:SER:N	2.43	0.43
1:l:694:ARG:HH21	1:l:696:ASN:CG	2.26	0.43
1:n:389:VAL:HG12	1:n:391:ARG:H	1.83	0.43
1:n:480:PRO:HB3	1:o:511:LEU:HD12	2.00	0.43
1:o:480:PRO:HB3	1:p:511:LEU:HD12	2.01	0.43
1:p:389:VAL:HG12	1:p:391:ARG:H	1.83	0.43
1:q:275:PHE:HB3	1:q:383:ASN:HB3	2.00	0.43
1:r:290:HIS:HD2	1:r:366:PRO:HB3	1.81	0.43
1:r:694:ARG:HH21	1:r:696:ASN:CG	2.26	0.43
1:s:389:VAL:HG12	1:s:391:ARG:H	1.83	0.43
1:s:398:GLU:OE1	1:s:650:LYS:NZ	2.44	0.43
1:u:299:GLN:NE2	1:u:701:TYR:O	2.51	0.43
1:u:354:TYR:CZ	1:u:356:LEU:HB2	2.52	0.43
1:u:676:THR:HG22	1:u:677:GLY:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:480:PRO:HB3	1:z:511:LEU:HD12	2.00	0.43
1:y:676:THR:HG22	1:y:677:GLY:N	2.34	0.43
1:G:299:GLN:NE2	1:G:701:TYR:O	2.51	0.43
1:G:676:THR:HG22	1:G:677:GLY:N	2.34	0.43
1:H:389:VAL:HG12	1:H:391:ARG:H	1.83	0.43
1:I:484:TYR:CE2	1:I:507:SER:HB3	2.53	0.43
1:J:437:ASN:HB2	1:L:355:VAL:CG1	2.43	0.43
1:J:480:PRO:HB3	1:L:511:LEU:HD12	2.00	0.43
1:J:483:SER:OG	1:J:577:TYR:HB2	2.19	0.43
1:J:521:GLY:O	1:J:634:LEU:HD22	2.18	0.43
1:N:654:VAL:HG12	1:N:671:ILE:HD12	2.00	0.43
1:P:521:GLY:O	1:P:634:LEU:HD22	2.18	0.43
1:S:437:ASN:HB2	1:U:355:VAL:CG1	2.42	0.43
1:S:480:PRO:HB3	1:U:511:LEU:HD12	2.00	0.43
1:Y:389:VAL:HG12	1:Y:391:ARG:H	1.83	0.43
1:4:354:TYR:CZ	1:4:356:LEU:HB2	2.52	0.43
1:5:350:TYR:OH	1:5:643:PRO:O	2.32	0.43
1:5:621:LYS:HB2	1:5:643:PRO:HG3	1.99	0.43
1:a:514:ARG:HD2	1:b:434:ARG:NH2	2.33	0.43
1:g:311:LYS:CE	1:g:686:GLU:CB	2.86	0.43
1:i:484:TYR:CE2	1:i:507:SER:HB3	2.53	0.43
1:i:521:GLY:O	1:i:634:LEU:HD22	2.18	0.43
1:k:521:GLY:O	1:k:634:LEU:HD22	2.18	0.43
1:n:299:GLN:NE2	1:n:701:TYR:O	2.51	0.43
1:n:483:SER:OG	1:n:577:TYR:HB2	2.19	0.43
1:n:521:GLY:O	1:n:634:LEU:HD22	2.18	0.43
1:q:521:GLY:O	1:q:634:LEU:HD22	2.18	0.43
1:r:299:GLN:NE2	1:r:701:TYR:O	2.51	0.43
1:s:484:TYR:CE2	1:s:507:SER:HB3	2.53	0.43
1:t:389:VAL:HG12	1:t:391:ARG:H	1.83	0.43
1:u:398:GLU:OE1	1:u:650:LYS:NZ	2.44	0.43
1:x:521:GLY:O	1:x:634:LEU:HD22	2.18	0.43
1:B:480:PRO:HB3	1:J:511:LEU:HD12	2.00	0.43
1:C:389:VAL:HG12	1:C:391:ARG:H	1.83	0.43
1:E:483:SER:OG	1:E:577:TYR:HB2	2.19	0.43
1:G:290:HIS:HD2	1:G:366:PRO:HB3	1.81	0.43
1:G:483:SER:OG	1:G:577:TYR:HB2	2.19	0.43
1:I:389:VAL:HG12	1:I:391:ARG:H	1.83	0.43
1:J:389:VAL:HG12	1:J:391:ARG:H	1.83	0.43
1:O:355:VAL:CG1	1:h:437:ASN:HB2	2.43	0.43
1:O:398:GLU:OE1	1:O:650:LYS:NZ	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:483:SER:OG	1:O:577:TYR:HB2	2.19	0.43
1:O:676:THR:HG22	1:O:677:GLY:N	2.34	0.43
1:R:354:TYR:CZ	1:R:356:LEU:HB2	2.52	0.43
1:W:354:TYR:CZ	1:W:356:LEU:HB2	2.52	0.43
1:W:630:HIS:O	1:W:632:SER:N	2.43	0.43
1:W:694:ARG:HH21	1:W:696:ASN:CG	2.26	0.43
1:X:311:LYS:CE	1:X:686:GLU:CB	2.86	0.43
1:X:654:VAL:HG12	1:X:671:ILE:HD12	2.00	0.43
1:3:231:ASP:N	1:3:242:THR:OG1	2.45	0.43
1:3:483:SER:OG	1:3:577:TYR:HB2	2.19	0.43
1:3:654:VAL:HG12	1:3:671:ILE:HD12	2.00	0.43
1:4:483:SER:OG	1:4:577:TYR:HB2	2.19	0.43
1:5:654:VAL:HG12	1:5:671:ILE:HD12	2.00	0.43
1:a:484:TYR:CE2	1:a:507:SER:HB3	2.53	0.43
1:e:389:VAL:HG12	1:e:391:ARG:H	1.83	0.43
1:e:483:SER:OG	1:e:577:TYR:HB2	2.19	0.43
1:g:694:ARG:HH21	1:g:696:ASN:CG	2.26	0.43
1:h:484:TYR:CE2	1:h:507:SER:HB3	2.53	0.43
1:j:654:VAL:HG12	1:j:671:ILE:HD12	2.00	0.43
1:m:389:VAL:HG12	1:m:391:ARG:H	1.83	0.43
1:n:437:ASN:HB2	1:o:355:VAL:CG1	2.43	0.43
1:n:511:LEU:HD12	1:p:480:PRO:HB3	2.00	0.43
1:o:621:LYS:HB2	1:o:643:PRO:HG3	1.99	0.43
1:o:654:VAL:HG12	1:o:671:ILE:HD12	2.00	0.43
1:r:483:SER:OG	1:r:577:TYR:HB2	2.19	0.43
1:r:676:THR:HG22	1:r:677:GLY:N	2.34	0.43
1:s:309:ARG:HH21	1:s:686:GLU:CD	2.23	0.43
1:w:484:TYR:CE2	1:w:507:SER:HB3	2.53	0.43
1:w:521:GLY:O	1:w:634:LEU:HD22	2.18	0.43
1:x:483:SER:OG	1:x:577:TYR:HB2	2.19	0.43
1:B:299:GLN:NE2	1:B:701:TYR:O	2.51	0.43
1:C:694:ARG:HH21	1:C:696:ASN:CG	2.26	0.43
1:D:484:TYR:CE2	1:D:507:SER:HB3	2.53	0.43
1:F:546:GLN:NE2	1:F:721:TYR:O	2.45	0.43
1:H:511:LEU:HD12	1:Y:480:PRO:HB3	2.00	0.43
1:H:521:GLY:O	1:H:634:LEU:HD22	2.18	0.43
1:H:654:VAL:HG12	1:H:671:ILE:HD12	2.00	0.43
1:I:483:SER:OG	1:I:577:TYR:HB2	2.19	0.43
1:K:521:GLY:O	1:K:634:LEU:HD22	2.18	0.43
1:L:483:SER:OG	1:L:577:TYR:HB2	2.19	0.43
1:L:654:VAL:HG12	1:L:671:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:621:LYS:HB2	1:N:643:PRO:HG3	1.99	0.43
1:P:299:GLN:NE2	1:P:701:TYR:O	2.51	0.43
1:T:389:VAL:HG12	1:T:391:ARG:H	1.83	0.43
1:T:484:TYR:CE2	1:T:507:SER:HB3	2.53	0.43
1:T:657:ASP:N	1:T:657:ASP:OD1	2.48	0.43
1:U:389:VAL:HG12	1:U:391:ARG:H	1.83	0.43
1:V:437:ASN:HB2	1:4:355:VAL:CG1	2.43	0.43
1:V:511:LEU:HD12	1:X:480:PRO:HB3	2.00	0.43
1:X:309:ARG:HH21	1:X:686:GLU:CD	2.23	0.43
1:X:694:ARG:HH21	1:X:696:ASN:CG	2.26	0.43
1:Y:676:THR:HG22	1:Y:677:GLY:N	2.34	0.43
1:Z:398:GLU:OE1	1:Z:650:LYS:NZ	2.44	0.43
1:Z:654:VAL:HG12	1:Z:671:ILE:HD12	2.00	0.43
1:1:389:VAL:HG12	1:1:391:ARG:H	1.83	0.43
1:4:676:THR:HG22	1:4:677:GLY:N	2.34	0.43
1:a:694:ARG:HH21	1:a:696:ASN:CG	2.26	0.43
1:b:299:GLN:NE2	1:b:701:TYR:O	2.51	0.43
1:f:354:TYR:CZ	1:f:356:LEU:HB2	2.52	0.43
1:g:654:VAL:HG12	1:g:671:ILE:HD12	2.00	0.43
1:j:275:PHE:HB3	1:j:383:ASN:HB3	2.00	0.43
1:k:511:LEU:HD12	1:m:480:PRO:HB3	2.00	0.43
1:k:654:VAL:HG12	1:k:671:ILE:HD12	2.00	0.43
1:l:354:TYR:CZ	1:l:356:LEU:HB2	2.52	0.43
1:m:676:THR:HG22	1:m:677:GLY:N	2.34	0.43
1:r:389:VAL:HG12	1:r:391:ARG:H	1.83	0.43
1:s:483:SER:OG	1:s:577:TYR:HB2	2.19	0.43
1:s:521:GLY:O	1:s:634:LEU:HD22	2.18	0.43
1:u:389:VAL:HG12	1:u:391:ARG:H	1.83	0.43
1:u:657:ASP:N	1:u:657:ASP:OD1	2.48	0.43
1:u:694:ARG:HH21	1:u:696:ASN:CG	2.26	0.43
1:y:521:GLY:O	1:y:634:LEU:HD22	2.18	0.43
1:z:389:VAL:HG12	1:z:391:ARG:H	1.83	0.43
1:A:389:VAL:HG12	1:A:391:ARG:H	1.83	0.43
1:A:654:VAL:HG12	1:A:671:ILE:HD12	2.00	0.43
1:D:694:ARG:HH21	1:D:696:ASN:CG	2.26	0.43
1:F:484:TYR:CE2	1:F:507:SER:HB3	2.53	0.43
1:F:694:ARG:HH21	1:F:696:ASN:CG	2.26	0.43
1:G:389:VAL:HG12	1:G:391:ARG:H	1.83	0.43
1:I:309:ARG:HH21	1:I:686:GLU:CD	2.23	0.43
1:J:299:GLN:NE2	1:J:701:TYR:O	2.51	0.43
1:J:694:ARG:HH21	1:J:696:ASN:CG	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:480:PRO:HB3	1:1:511:LEU:HD12	2.01	0.43
1:L:621:LYS:HB2	1:L:643:PRO:HG3	1.99	0.43
1:R:621:LYS:HB2	1:R:643:PRO:HG3	1.99	0.43
1:R:654:VAL:HG12	1:R:671:ILE:HD12	2.00	0.43
1:R:676:THR:HG22	1:R:677:GLY:N	2.34	0.43
1:S:389:VAL:HG12	1:S:391:ARG:H	1.83	0.43
1:S:657:ASP:OD1	1:S:657:ASP:N	2.48	0.43
1:T:290:HIS:HD2	1:T:366:PRO:HB3	1.81	0.43
1:T:654:VAL:HG12	1:T:671:ILE:HD12	2.00	0.43
1:U:654:VAL:HG12	1:U:671:ILE:HD12	2.00	0.43
1:W:398:GLU:OE1	1:W:650:LYS:NZ	2.44	0.43
1:Y:299:GLN:NE2	1:Y:701:TYR:O	2.51	0.43
1:Z:275:PHE:HB3	1:Z:383:ASN:HB3	2.00	0.43
1:1:437:ASN:HB2	1:8:355:VAL:CG1	2.43	0.43
1:1:584:HIS:NE2	1:8:575:GLU:OE1	2.41	0.43
1:d:484:TYR:CE2	1:d:507:SER:HB3	2.53	0.43
1:d:694:ARG:HH21	1:d:696:ASN:CG	2.26	0.43
1:f:483:SER:OG	1:f:577:TYR:HB2	2.19	0.43
1:f:621:LYS:HB2	1:f:643:PRO:HG3	1.99	0.43
1:f:654:VAL:HG12	1:f:671:ILE:HD12	2.00	0.43
1:g:480:PRO:HB3	1:h:511:LEU:HD12	2.00	0.43
1:m:299:GLN:NE2	1:m:701:TYR:O	2.51	0.43
1:o:483:SER:OG	1:o:577:TYR:HB2	2.19	0.43
1:o:484:TYR:CE2	1:o:507:SER:HB3	2.53	0.43
1:p:299:GLN:NE2	1:p:701:TYR:O	2.51	0.43
1:q:389:VAL:HG12	1:q:391:ARG:H	1.83	0.43
1:q:654:VAL:HG12	1:q:671:ILE:HD12	2.00	0.43
1:q:694:ARG:HH21	1:q:696:ASN:CG	2.26	0.43
1:w:389:VAL:HG12	1:w:391:ARG:H	1.83	0.43
1:x:654:VAL:HG12	1:x:671:ILE:HD12	2.00	0.43
1:y:483:SER:OG	1:y:577:TYR:HB2	2.19	0.43
1:7:299:GLN:NE2	1:7:701:TYR:O	2.51	0.43
1:7:696:ASN:HB2	1:7:697:PRO:HD2	2.01	0.43
1:A:484:TYR:CE2	1:A:507:SER:HB3	2.53	0.43
1:A:694:ARG:HH21	1:A:696:ASN:CG	2.26	0.43
1:C:398:GLU:OE1	1:C:650:LYS:NZ	2.44	0.43
1:C:437:ASN:HB2	1:2:355:VAL:CG1	2.43	0.43
1:C:521:GLY:O	1:C:634:LEU:HD22	2.18	0.43
1:D:654:VAL:HG12	1:D:671:ILE:HD12	2.00	0.43
1:D:676:THR:HG22	1:D:677:GLY:N	2.34	0.43
1:E:480:PRO:HB3	1:Q:511:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:290:HIS:HD2	1:F:366:PRO:HB3	1.81	0.43
1:F:654:VAL:HG12	1:F:671:ILE:HD12	2.00	0.43
1:G:480:PRO:HB3	1:I:511:LEU:HD12	2.00	0.43
1:H:484:TYR:CE2	1:H:507:SER:HB3	2.53	0.43
1:I:521:GLY:O	1:I:634:LEU:HD22	2.18	0.43
1:I:654:VAL:HG12	1:I:671:ILE:HD12	2.00	0.43
1:J:676:THR:HG22	1:J:677:GLY:N	2.34	0.43
1:K:355:VAL:CG1	1:8:437:ASN:HB2	2.45	0.43
1:K:483:SER:OG	1:K:577:TYR:HB2	2.19	0.43
1:L:484:TYR:CE2	1:L:507:SER:HB3	2.53	0.43
1:M:275:PHE:HB3	1:M:383:ASN:HB3	2.00	0.43
1:O:696:ASN:HB2	1:O:697:PRO:HD2	2.01	0.43
1:P:483:SER:OG	1:P:577:TYR:HB2	2.19	0.43
1:Q:483:SER:OG	1:Q:577:TYR:HB2	2.19	0.43
1:R:521:GLY:O	1:R:634:LEU:HD22	2.18	0.43
1:T:360:HIS:HA	1:f:442:GLN:HA	2.01	0.43
1:U:676:THR:HG22	1:U:677:GLY:N	2.34	0.43
1:V:483:SER:OG	1:V:577:TYR:HB2	2.19	0.43
1:Y:483:SER:OG	1:Y:577:TYR:HB2	2.19	0.43
1:2:694:ARG:HH21	1:2:696:ASN:CG	2.26	0.43
1:4:350:TYR:OH	1:4:643:PRO:O	2.32	0.43
1:c:483:SER:OG	1:c:577:TYR:HB2	2.19	0.43
1:c:511:LEU:HD12	1:e:480:PRO:HB3	2.00	0.43
1:d:654:VAL:HG12	1:d:671:ILE:HD12	2.00	0.43
1:f:389:VAL:HG12	1:f:391:ARG:H	1.83	0.43
1:f:676:THR:HG22	1:f:677:GLY:N	2.34	0.43
1:g:309:ARG:NH2	1:g:686:GLU:OE1	2.30	0.43
1:i:389:VAL:HG12	1:i:391:ARG:H	1.83	0.43
1:n:676:THR:HG22	1:n:677:GLY:N	2.34	0.43
1:n:694:ARG:HH21	1:n:696:ASN:CG	2.26	0.43
1:r:480:PRO:HB3	1:s:511:LEU:HD12	2.00	0.43
1:t:275:PHE:HB3	1:t:383:ASN:HB3	2.00	0.43
1:w:397:LEU:HD23	1:w:648:LEU:HD23	2.01	0.43
1:w:696:ASN:HB2	1:w:697:PRO:HD2	2.01	0.43
1:x:630:HIS:O	1:x:632:SER:N	2.43	0.43
1:x:676:THR:HG22	1:x:677:GLY:N	2.34	0.43
1:z:694:ARG:HH21	1:z:696:ASN:CG	2.26	0.43
1:7:389:VAL:HG12	1:7:391:ARG:H	1.83	0.43
1:8:299:GLN:NE2	1:8:701:TYR:O	2.51	0.43
1:8:696:ASN:HB2	1:8:697:PRO:HD2	2.01	0.43
1:A:483:SER:OG	1:A:577:TYR:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:397:LEU:HD23	1:B:648:LEU:HD23	2.01	0.43
1:B:696:ASN:HB2	1:B:697:PRO:HD2	2.01	0.43
1:I:397:LEU:HD23	1:I:648:LEU:HD23	2.01	0.43
1:K:511:LEU:HD12	1:8:480:PRO:HB3	1.99	0.43
1:L:389:VAL:HG12	1:L:391:ARG:H	1.83	0.43
1:M:696:ASN:HB2	1:M:697:PRO:HD2	2.01	0.43
1:N:275:PHE:HB3	1:N:383:ASN:HB3	2.00	0.43
1:R:389:VAL:HG12	1:R:391:ARG:H	1.83	0.43
1:R:483:SER:OG	1:R:577:TYR:HB2	2.19	0.43
1:S:654:VAL:HG12	1:S:671:ILE:HD12	2.00	0.43
1:U:484:TYR:CE2	1:U:507:SER:HB3	2.53	0.43
1:V:696:ASN:HB2	1:V:697:PRO:HD2	2.01	0.43
1:X:696:ASN:HB2	1:X:697:PRO:HD2	2.01	0.43
1:Z:299:GLN:NE2	1:Z:701:TYR:O	2.51	0.43
1:1:694:ARG:HH21	1:1:696:ASN:CG	2.26	0.43
1:2:654:VAL:HG12	1:2:671:ILE:HD12	2.00	0.43
1:3:676:THR:HG22	1:3:677:GLY:N	2.34	0.43
1:4:696:ASN:HB2	1:4:697:PRO:HD2	2.01	0.43
1:a:483:SER:OG	1:a:577:TYR:HB2	2.19	0.43
1:a:654:VAL:HG12	1:a:671:ILE:HD12	2.00	0.43
1:a:676:THR:HG22	1:a:677:GLY:N	2.34	0.43
1:b:483:SER:OG	1:b:577:TYR:HB2	2.19	0.43
1:c:654:VAL:HG12	1:c:671:ILE:HD12	2.00	0.43
1:d:483:SER:OG	1:d:577:TYR:HB2	2.19	0.43
1:f:521:GLY:O	1:f:634:LEU:HD22	2.18	0.43
1:i:397:LEU:HD23	1:i:648:LEU:HD23	2.01	0.43
1:i:696:ASN:HB2	1:i:697:PRO:HD2	2.01	0.43
1:j:299:GLN:NE2	1:j:701:TYR:O	2.51	0.43
1:k:484:TYR:CE2	1:k:507:SER:HB3	2.53	0.43
1:l:521:GLY:O	1:l:634:LEU:HD22	2.18	0.43
1:m:483:SER:OG	1:m:577:TYR:HB2	2.19	0.43
1:o:389:VAL:HG12	1:o:391:ARG:H	1.83	0.43
1:p:397:LEU:HD23	1:p:648:LEU:HD23	2.01	0.43
1:p:696:ASN:HB2	1:p:697:PRO:HD2	2.01	0.43
1:q:483:SER:OG	1:q:577:TYR:HB2	2.19	0.43
1:q:484:TYR:CE2	1:q:507:SER:HB3	2.53	0.43
1:t:480:PRO:HB3	1:u:511:LEU:HD12	2.01	0.43
1:t:696:ASN:HB2	1:t:697:PRO:HD2	2.01	0.43
1:v:694:ARG:HH21	1:v:696:ASN:CG	2.26	0.43
1:x:275:PHE:HB3	1:x:383:ASN:HB3	2.00	0.43
1:y:231:ASP:OD1	1:y:242:THR:OG1	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:397:LEU:HD23	1:7:648:LEU:HD23	2.01	0.43
1:C:511:LEU:HD12	1:M:480:PRO:HB3	2.01	0.42
1:D:389:VAL:HG12	1:D:391:ARG:H	1.83	0.42
1:D:483:SER:OG	1:D:577:TYR:HB2	2.19	0.42
1:E:275:PHE:HB3	1:E:383:ASN:HB3	2.00	0.42
1:H:442:GLN:HA	1:W:360:HIS:HA	2.01	0.42
1:Q:654:VAL:HG12	1:Q:671:ILE:HD12	2.00	0.42
1:Q:696:ASN:HB2	1:Q:697:PRO:HD2	2.01	0.42
1:R:397:LEU:HD23	1:R:648:LEU:HD23	2.01	0.42
1:R:511:LEU:HD12	1:U:480:PRO:HB3	2.00	0.42
1:S:290:HIS:HD2	1:S:366:PRO:HB3	1.81	0.42
1:T:355:VAL:CG1	1:f:437:ASN:HB2	2.44	0.42
1:U:521:GLY:O	1:U:634:LEU:HD22	2.18	0.42
1:U:696:ASN:HB2	1:U:697:PRO:HD2	2.01	0.42
1:V:442:GLN:HA	1:4:360:HIS:HA	2.02	0.42
1:V:654:VAL:HG12	1:V:671:ILE:HD12	2.00	0.42
1:W:521:GLY:O	1:W:634:LEU:HD22	2.18	0.42
1:X:676:THR:HG22	1:X:677:GLY:N	2.34	0.42
1:2:309:ARG:NH2	1:2:686:GLU:OE1	2.31	0.42
1:3:630:HIS:O	1:3:632:SER:N	2.43	0.42
1:5:275:PHE:HB3	1:5:383:ASN:HB3	2.00	0.42
1:5:397:LEU:HD23	1:5:648:LEU:HD23	2.01	0.42
1:c:696:ASN:HB2	1:c:697:PRO:HD2	2.01	0.42
1:e:676:THR:HG22	1:e:677:GLY:N	2.34	0.42
1:f:397:LEU:HD23	1:f:648:LEU:HD23	2.01	0.42
1:g:696:ASN:HB2	1:g:697:PRO:HD2	2.01	0.42
1:h:483:SER:OG	1:h:577:TYR:HB2	2.19	0.42
1:h:654:VAL:HG12	1:h:671:ILE:HD12	2.00	0.42
1:h:696:ASN:HB2	1:h:697:PRO:HD2	2.01	0.42
1:i:676:THR:HG22	1:i:677:GLY:N	2.34	0.42
1:j:398:GLU:OE1	1:j:650:LYS:NZ	2.44	0.42
1:j:483:SER:OG	1:j:577:TYR:HB2	2.19	0.42
1:m:696:ASN:HB2	1:m:697:PRO:HD2	2.01	0.42
1:s:397:LEU:HD23	1:s:648:LEU:HD23	2.01	0.42
1:s:654:VAL:HG12	1:s:671:ILE:HD12	2.00	0.42
1:u:437:ASN:HB2	1:v:355:VAL:CG1	2.43	0.42
1:u:521:GLY:O	1:u:634:LEU:HD22	2.18	0.42
1:u:696:ASN:HB2	1:u:697:PRO:HD2	2.01	0.42
1:v:389:VAL:HG12	1:v:391:ARG:H	1.83	0.42
1:v:654:VAL:HG12	1:v:671:ILE:HD12	2.00	0.42
1:w:676:THR:HG22	1:w:677:GLY:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:389:VAL:HG12	1:8:391:ARG:H	1.83	0.42
1:8:397:LEU:HD23	1:8:648:LEU:HD23	2.01	0.42
1:8:676:THR:HG22	1:8:677:GLY:N	2.34	0.42
1:A:511:LEU:HD12	1:I:480:PRO:HB3	2.01	0.42
1:C:397:LEU:HD23	1:C:648:LEU:HD23	2.01	0.42
1:C:696:ASN:HB2	1:C:697:PRO:HD2	2.01	0.42
1:E:511:LEU:HD12	1:F:480:PRO:HB3	2.00	0.42
1:F:612:VAL:O	1:F:729:THR:HG23	2.20	0.42
1:G:309:ARG:NH2	1:G:686:GLU:OE1	2.30	0.42
1:G:397:LEU:HD23	1:G:648:LEU:HD23	2.01	0.42
1:G:696:ASN:HB2	1:G:697:PRO:HD2	2.01	0.42
1:H:355:VAL:CG1	1:Y:437:ASN:HB2	2.43	0.42
1:I:545:LYS:O	1:I:548:THR:OG1	2.34	0.42
1:K:437:ASN:HB2	1:1:355:VAL:CG1	2.43	0.42
1:K:519:ASN:CB	1:8:475:GLY:HA2	2.49	0.42
1:N:397:LEU:HD23	1:N:648:LEU:HD23	2.01	0.42
1:N:483:SER:OG	1:N:577:TYR:HB2	2.19	0.42
1:O:275:PHE:HB3	1:O:383:ASN:HB3	2.00	0.42
1:O:299:GLN:NE2	1:O:701:TYR:O	2.51	0.42
1:O:511:LEU:HD12	1:h:480:PRO:HB3	2.01	0.42
1:P:275:PHE:HB3	1:P:383:ASN:HB3	2.00	0.42
1:Q:275:PHE:HB3	1:Q:383:ASN:HB3	2.00	0.42
1:Q:676:THR:HG22	1:Q:677:GLY:N	2.34	0.42
1:T:511:LEU:HD12	1:f:480:PRO:HB3	2.00	0.42
1:Y:696:ASN:HB2	1:Y:697:PRO:HD2	2.01	0.42
1:Z:483:SER:OG	1:Z:577:TYR:HB2	2.19	0.42
1:2:389:VAL:HG12	1:2:391:ARG:H	1.83	0.42
1:2:676:THR:HG22	1:2:677:GLY:N	2.34	0.42
1:3:275:PHE:HB3	1:3:383:ASN:HB3	2.00	0.42
1:4:275:PHE:HB3	1:4:383:ASN:HB3	2.00	0.42
1:5:483:SER:OG	1:5:577:TYR:HB2	2.19	0.42
1:a:389:VAL:HG12	1:a:391:ARG:H	1.83	0.42
1:b:275:PHE:HB3	1:b:383:ASN:HB3	2.00	0.42
1:c:275:PHE:HB3	1:c:383:ASN:HB3	2.00	0.42
1:c:442:GLN:HA	1:d:360:HIS:HA	2.02	0.42
1:c:676:THR:HG22	1:c:677:GLY:N	2.34	0.42
1:d:480:PRO:HB3	1:e:511:LEU:HD12	2.00	0.42
1:e:275:PHE:HB3	1:e:383:ASN:HB3	2.00	0.42
1:g:676:THR:HG22	1:g:677:GLY:N	2.34	0.42
1:h:299:GLN:NE2	1:h:701:TYR:O	2.51	0.42
1:i:654:VAL:HG12	1:i:671:ILE:HD12	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:355:VAL:CG1	1:m:437:ASN:HB2	2.43	0.42
1:k:442:GLN:HA	1:l:360:HIS:HA	2.01	0.42
1:l:397:LEU:HD23	1:l:648:LEU:HD23	2.01	0.42
1:r:309:ARG:NH2	1:r:686:GLU:OE1	2.30	0.42
1:r:397:LEU:HD23	1:r:648:LEU:HD23	2.01	0.42
1:u:397:LEU:HD23	1:u:648:LEU:HD23	2.01	0.42
1:w:299:GLN:NE2	1:w:701:TYR:O	2.51	0.42
1:y:437:ASN:HB2	1:z:355:VAL:CG1	2.43	0.42
1:7:676:THR:HG22	1:7:677:GLY:N	2.34	0.42
1:8:231:ASP:OD1	1:8:242:THR:OG1	2.33	0.42
1:8:612:VAL:O	1:8:729:THR:HG23	2.20	0.42
1:E:676:THR:HG22	1:E:677:GLY:N	2.34	0.42
1:F:360:HIS:HA	1:Q:442:GLN:HA	2.02	0.42
1:F:483:SER:OG	1:F:577:TYR:HB2	2.19	0.42
1:G:612:VAL:O	1:G:729:THR:HG23	2.20	0.42
1:H:483:SER:OG	1:H:577:TYR:HB2	2.19	0.42
1:K:514:ARG:HD2	1:8:434:ARG:NH2	2.33	0.42
1:L:612:VAL:O	1:L:729:THR:HG23	2.20	0.42
1:P:696:ASN:HB2	1:P:697:PRO:HD2	2.01	0.42
1:R:442:GLN:HA	1:S:360:HIS:HA	2.01	0.42
1:S:231:ASP:OD1	1:S:242:THR:OG1	2.33	0.42
1:S:612:VAL:O	1:S:729:THR:HG23	2.20	0.42
1:V:299:GLN:NE2	1:V:701:TYR:O	2.51	0.42
1:W:397:LEU:HD23	1:W:648:LEU:HD23	2.01	0.42
1:X:355:VAL:CG1	1:4:437:ASN:HB2	2.43	0.42
1:1:676:THR:HG22	1:1:677:GLY:N	2.34	0.42
1:3:290:HIS:HD2	1:3:366:PRO:HB3	1.81	0.42
1:3:442:GLN:HA	1:i:360:HIS:HA	2.01	0.42
1:d:612:VAL:O	1:d:729:THR:HG23	2.20	0.42
1:i:309:ARG:NH2	1:i:686:GLU:OE1	2.31	0.42
1:o:612:VAL:O	1:o:729:THR:HG23	2.20	0.42
1:q:511:LEU:HD12	1:s:480:PRO:HB3	2.01	0.42
1:r:612:VAL:O	1:r:729:THR:HG23	2.20	0.42
1:r:696:ASN:HB2	1:r:697:PRO:HD2	2.01	0.42
1:z:442:GLN:HA	1:7:360:HIS:HA	2.02	0.42
1:z:676:THR:HG22	1:z:677:GLY:N	2.34	0.42
1:A:437:ASN:HB2	1:G:355:VAL:CG1	2.43	0.42
1:B:360:HIS:HA	1:L:442:GLN:HA	2.02	0.42
1:D:437:ASN:HB2	1:N:355:VAL:CG1	2.43	0.42
1:D:696:ASN:HB2	1:D:697:PRO:HD2	2.01	0.42
1:F:676:THR:HG22	1:F:677:GLY:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:707:LYS:NZ	1:1:384:ASP:OD2	2.36	0.42
1:K:231:ASP:OD1	1:K:242:THR:OG1	2.33	0.42
1:K:350:TYR:OH	1:K:643:PRO:O	2.32	0.42
1:Q:612:VAL:O	1:Q:729:THR:HG23	2.20	0.42
1:X:309:ARG:NH2	1:X:686:GLU:OE1	2.31	0.42
1:Y:231:ASP:N	1:Y:242:THR:OG1	2.45	0.42
1:3:612:VAL:O	1:3:729:THR:HG23	2.20	0.42
1:4:299:GLN:NE2	1:4:701:TYR:O	2.51	0.42
1:a:350:TYR:OH	1:a:643:PRO:O	2.32	0.42
1:a:696:ASN:HB2	1:a:697:PRO:HD2	2.01	0.42
1:b:696:ASN:HB2	1:b:697:PRO:HD2	2.01	0.42
1:c:612:VAL:O	1:c:729:THR:HG23	2.20	0.42
1:d:676:THR:HG22	1:d:677:GLY:N	2.34	0.42
1:k:483:SER:OG	1:k:577:TYR:HB2	2.19	0.42
1:m:612:VAL:O	1:m:729:THR:HG23	2.20	0.42
1:o:442:GLN:HA	1:p:360:HIS:HA	2.02	0.42
1:p:309:ARG:NH2	1:p:686:GLU:OE1	2.30	0.42
1:s:545:LYS:O	1:s:548:THR:OG1	2.34	0.42
1:v:676:THR:HG22	1:v:677:GLY:N	2.34	0.42
1:w:360:HIS:HA	1:x:442:GLN:HA	2.01	0.42
1:w:654:VAL:HG12	1:w:671:ILE:HD12	2.00	0.42
1:7:612:VAL:O	1:7:729:THR:HG23	2.20	0.42
1:C:514:ARG:HD2	1:M:434:ARG:NH2	2.35	0.42
1:D:612:VAL:O	1:D:729:THR:HG23	2.20	0.42
1:J:398:GLU:OE1	1:J:650:LYS:NZ	2.44	0.42
1:O:360:HIS:HA	1:h:442:GLN:HA	2.02	0.42
1:O:434:ARG:NH2	1:g:514:ARG:HD2	2.34	0.42
1:O:437:ASN:HB2	1:g:355:VAL:CG1	2.43	0.42
1:S:275:PHE:HB3	1:S:383:ASN:HB3	2.00	0.42
1:T:275:PHE:HB3	1:T:383:ASN:HB3	2.00	0.42
1:T:612:VAL:O	1:T:729:THR:HG23	2.20	0.42
1:U:275:PHE:HB3	1:U:383:ASN:HB3	2.00	0.42
1:X:360:HIS:HA	1:4:442:GLN:HA	2.02	0.42
1:Y:612:VAL:O	1:Y:729:THR:HG23	2.20	0.42
1:2:612:VAL:O	1:2:729:THR:HG23	2.20	0.42
1:a:355:VAL:CG1	1:b:437:ASN:HB2	2.42	0.42
1:a:612:VAL:O	1:a:729:THR:HG23	2.20	0.42
1:g:612:VAL:O	1:g:729:THR:HG23	2.20	0.42
1:h:389:VAL:HG12	1:h:391:ARG:H	1.83	0.42
1:i:231:ASP:OD1	1:i:242:THR:OG1	2.33	0.42
1:i:299:GLN:NE2	1:i:701:TYR:O	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:612:VAL:O	1:j:729:THR:HG23	2.20	0.42
1:l:442:GLN:HA	1:m:360:HIS:HA	2.01	0.42
1:l:483:SER:OG	1:l:577:TYR:HB2	2.19	0.42
1:n:707:LYS:NZ	1:z:384:ASP:OD2	2.36	0.42
1:p:676:THR:HG22	1:p:677:GLY:N	2.34	0.42
1:v:309:ARG:NH2	1:v:686:GLU:OE1	2.31	0.42
1:v:612:VAL:O	1:v:729:THR:HG23	2.20	0.42
1:x:290:HIS:HD2	1:x:366:PRO:HB3	1.81	0.42
1:x:612:VAL:O	1:x:729:THR:HG23	2.20	0.42
1:y:350:TYR:OH	1:y:643:PRO:O	2.32	0.42
1:z:437:ASN:HB2	1:7:355:VAL:CG1	2.43	0.42
1:7:483:SER:OG	1:7:577:TYR:HB2	2.19	0.42
1:8:309:ARG:HH21	1:8:686:GLU:CD	2.23	0.42
1:C:545:LYS:O	1:C:548:THR:OG1	2.34	0.42
1:D:355:VAL:CG1	1:P:437:ASN:HB2	2.42	0.42
1:E:545:LYS:O	1:E:548:THR:OG1	2.34	0.42
1:H:360:HIS:HA	1:Y:442:GLN:HA	2.02	0.42
1:H:397:LEU:HD23	1:H:648:LEU:HD23	2.01	0.42
1:H:480:PRO:HB3	1:W:511:LEU:HD12	2.00	0.42
1:I:444:LEU:HD23	1:I:444:LEU:HA	1.90	0.42
1:K:290:HIS:HD2	1:K:366:PRO:HB3	1.81	0.42
1:R:360:HIS:HA	1:U:442:GLN:HA	2.01	0.42
1:R:434:ARG:NH2	1:S:514:ARG:HD2	2.34	0.42
1:U:225:SER:HB2	1:U:319:ASN:H	1.85	0.42
1:U:483:SER:OG	1:U:577:TYR:HB2	2.19	0.42
1:W:483:SER:OG	1:W:577:TYR:HB2	2.19	0.42
1:X:612:VAL:O	1:X:729:THR:HG23	2.20	0.42
1:Z:676:THR:HG22	1:Z:677:GLY:N	2.34	0.42
1:c:514:ARG:HD2	1:e:434:ARG:NH2	2.35	0.42
1:k:360:HIS:HA	1:m:442:GLN:HA	2.02	0.42
1:k:676:THR:HG22	1:k:677:GLY:N	2.34	0.42
1:m:231:ASP:N	1:m:242:THR:OG1	2.45	0.42
1:n:398:GLU:OE1	1:n:650:LYS:NZ	2.44	0.42
1:o:309:ARG:HH21	1:o:686:GLU:CD	2.23	0.42
1:t:360:HIS:HA	1:v:442:GLN:HA	2.02	0.42
1:t:434:ARG:NH2	1:u:514:ARG:HD2	2.35	0.42
1:w:309:ARG:NH2	1:w:686:GLU:OE1	2.31	0.42
1:x:389:VAL:HG12	1:x:391:ARG:H	1.83	0.42
1:y:511:LEU:HD12	1:7:480:PRO:HB3	2.00	0.42
1:7:309:ARG:HH21	1:7:686:GLU:CD	2.23	0.42
1:8:483:SER:OG	1:8:577:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:676:THR:HG22	1:B:677:GLY:N	2.34	0.42
1:C:225:SER:HB2	1:C:319:ASN:H	1.85	0.42
1:E:434:ARG:NH2	1:Q:514:ARG:HD2	2.35	0.42
1:H:676:THR:HG22	1:H:677:GLY:N	2.34	0.42
1:L:309:ARG:HH21	1:L:686:GLU:CD	2.23	0.42
1:M:360:HIS:HA	1:2:442:GLN:HA	2.02	0.42
1:M:612:VAL:O	1:M:729:THR:HG23	2.20	0.42
1:R:231:ASP:N	1:R:242:THR:OG1	2.46	0.42
1:S:355:VAL:O	1:S:355:VAL:HG12	2.20	0.42
1:T:231:ASP:OD1	1:T:242:THR:OG1	2.33	0.42
1:T:355:VAL:O	1:T:355:VAL:HG12	2.20	0.42
1:T:397:LEU:HD23	1:T:648:LEU:HD23	2.01	0.42
1:V:389:VAL:HG12	1:V:391:ARG:H	1.83	0.42
1:V:612:VAL:O	1:V:729:THR:HG23	2.20	0.42
1:W:442:GLN:HA	1:Y:360:HIS:HA	2.01	0.42
1:X:299:GLN:NE2	1:X:701:TYR:O	2.51	0.42
1:X:511:LEU:HD12	1:4:480:PRO:HB3	2.01	0.42
1:Z:389:VAL:HG12	1:Z:391:ARG:H	1.83	0.42
1:Z:514:ARG:HD2	1:w:434:ARG:NH2	2.35	0.42
1:Z:612:VAL:O	1:Z:729:THR:HG23	2.20	0.42
1:2:483:SER:OG	1:2:577:TYR:HB2	2.19	0.42
1:3:389:VAL:HG12	1:3:391:ARG:H	1.83	0.42
1:3:397:LEU:HD23	1:3:648:LEU:HD23	2.01	0.42
1:5:231:ASP:N	1:5:242:THR:OG1	2.46	0.42
1:5:355:VAL:CG1	1:a:437:ASN:HB2	2.43	0.42
1:5:389:VAL:HG12	1:5:391:ARG:H	1.83	0.42
1:a:275:PHE:HB3	1:a:383:ASN:HB3	2.00	0.42
1:b:612:VAL:O	1:b:729:THR:HG23	2.20	0.42
1:g:483:SER:OG	1:g:577:TYR:HB2	2.19	0.42
1:j:676:THR:HG22	1:j:677:GLY:N	2.34	0.42
1:k:397:LEU:HD23	1:k:648:LEU:HD23	2.01	0.42
1:k:480:PRO:HB3	1:l:511:LEU:HD12	2.00	0.42
1:k:612:VAL:O	1:k:729:THR:HG23	2.20	0.42
1:p:483:SER:OG	1:p:577:TYR:HB2	2.19	0.42
1:q:480:PRO:HB3	1:r:511:LEU:HD12	2.00	0.42
1:u:545:LYS:O	1:u:548:THR:OG1	2.34	0.42
1:u:612:VAL:O	1:u:729:THR:HG23	2.20	0.42
1:w:231:ASP:OD1	1:w:242:THR:OG1	2.33	0.42
1:z:309:ARG:HH21	1:z:686:GLU:CD	2.23	0.42
1:B:483:SER:OG	1:B:577:TYR:HB2	2.19	0.42
1:B:612:VAL:O	1:B:729:THR:HG23	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:612:VAL:O	1:C:729:THR:HG23	2.20	0.42
1:D:225:SER:HB2	1:D:319:ASN:H	1.85	0.42
1:D:275:PHE:HB3	1:D:383:ASN:HB3	2.00	0.42
1:F:231:ASP:N	1:F:242:THR:OG1	2.45	0.42
1:G:434:ARG:NH2	1:I:514:ARG:HD2	2.35	0.42
1:H:612:VAL:O	1:H:729:THR:HG23	2.20	0.42
1:K:225:SER:HB2	1:K:319:ASN:H	1.85	0.42
1:O:397:LEU:HD23	1:O:648:LEU:HD23	2.01	0.42
1:P:612:VAL:O	1:P:729:THR:HG23	2.20	0.42
1:Q:397:LEU:HD23	1:Q:648:LEU:HD23	2.01	0.42
1:Q:630:HIS:O	1:Q:632:SER:N	2.43	0.42
1:R:480:PRO:HB3	1:S:511:LEU:HD12	2.01	0.42
1:R:696:ASN:HB2	1:R:697:PRO:HD2	2.01	0.42
1:S:397:LEU:HD23	1:S:648:LEU:HD23	2.01	0.42
1:S:676:THR:HG22	1:S:677:GLY:N	2.34	0.42
1:T:676:THR:HG22	1:T:677:GLY:N	2.34	0.42
1:X:355:VAL:O	1:X:355:VAL:HG12	2.20	0.42
1:1:696:ASN:HB2	1:1:697:PRO:HD2	2.01	0.42
1:3:514:ARG:HD2	1:j:434:ARG:NH2	2.35	0.42
1:5:225:SER:HB2	1:5:319:ASN:H	1.85	0.42
1:a:225:SER:HB2	1:a:319:ASN:H	1.85	0.42
1:c:309:ARG:NH2	1:c:686:GLU:OE1	2.31	0.42
1:c:397:LEU:HD23	1:c:648:LEU:HD23	2.01	0.42
1:c:630:HIS:O	1:c:632:SER:N	2.43	0.42
1:d:397:LEU:HD23	1:d:648:LEU:HD23	2.01	0.42
1:e:545:LYS:O	1:e:548:THR:OG1	2.34	0.42
1:e:696:ASN:HB2	1:e:697:PRO:HD2	2.01	0.42
1:f:696:ASN:HB2	1:f:697:PRO:HD2	2.01	0.42
1:g:299:GLN:NE2	1:g:701:TYR:O	2.51	0.42
1:h:612:VAL:O	1:h:729:THR:HG23	2.20	0.42
1:i:434:ARG:NH2	1:j:514:ARG:HD2	2.35	0.42
1:j:389:VAL:HG12	1:j:391:ARG:H	1.83	0.42
1:p:612:VAL:O	1:p:729:THR:HG23	2.20	0.42
1:q:612:VAL:O	1:q:729:THR:HG23	2.20	0.42
1:r:434:ARG:NH2	1:s:514:ARG:HD2	2.35	0.42
1:s:355:VAL:O	1:s:355:VAL:HG12	2.20	0.42
1:t:612:VAL:O	1:t:729:THR:HG23	2.20	0.42
1:u:225:SER:HB2	1:u:319:ASN:H	1.85	0.42
1:u:355:VAL:O	1:u:355:VAL:HG12	2.20	0.42
1:v:483:SER:OG	1:v:577:TYR:HB2	2.19	0.42
1:w:511:LEU:HD12	1:x:480:PRO:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:397:LEU:HD23	1:x:648:LEU:HD23	2.01	0.42
1:y:225:SER:HB2	1:y:319:ASN:H	1.85	0.42
1:y:612:VAL:O	1:y:729:THR:HG23	2.20	0.42
1:z:397:LEU:HD23	1:z:648:LEU:HD23	2.01	0.42
1:A:480:PRO:HB3	1:G:511:LEU:HD12	2.01	0.42
1:A:612:VAL:O	1:A:729:THR:HG23	2.20	0.42
1:C:355:VAL:O	1:C:355:VAL:HG12	2.20	0.42
1:C:434:ARG:NH2	1:2:514:ARG:HD2	2.35	0.42
1:D:299:GLN:NE2	1:D:701:TYR:O	2.51	0.42
1:E:514:ARG:HD2	1:F:434:ARG:NH2	2.35	0.42
1:E:696:ASN:HB2	1:E:697:PRO:HD2	2.01	0.42
1:F:397:LEU:HD23	1:F:648:LEU:HD23	2.01	0.42
1:G:225:SER:HB2	1:G:319:ASN:H	1.85	0.42
1:I:355:VAL:O	1:I:355:VAL:HG12	2.20	0.42
1:I:676:THR:HG22	1:I:677:GLY:N	2.34	0.42
1:K:398:GLU:OE1	1:K:650:LYS:NZ	2.44	0.42
1:L:355:VAL:O	1:L:355:VAL:HG12	2.20	0.42
1:L:676:THR:HG22	1:L:677:GLY:N	2.34	0.42
1:M:398:GLU:OE1	1:M:650:LYS:NZ	2.44	0.42
1:M:483:SER:OG	1:M:577:TYR:HB2	2.19	0.42
1:N:389:VAL:HG12	1:N:391:ARG:H	1.83	0.42
1:O:355:VAL:O	1:O:355:VAL:HG12	2.20	0.42
1:W:225:SER:HB2	1:W:319:ASN:H	1.85	0.42
1:W:299:GLN:NE2	1:W:701:TYR:O	2.51	0.42
1:X:483:SER:OG	1:X:577:TYR:HB2	2.19	0.42
1:Z:434:ARG:NH2	1:x:514:ARG:HD2	2.35	0.42
1:1:309:ARG:HH21	1:1:686:GLU:CD	2.23	0.42
1:1:397:LEU:HD23	1:1:648:LEU:HD23	2.01	0.42
1:5:676:THR:HG22	1:5:677:GLY:N	2.34	0.42
1:g:231:ASP:OD1	1:g:242:THR:OG1	2.33	0.42
1:g:355:VAL:O	1:g:355:VAL:HG12	2.20	0.42
1:h:225:SER:HB2	1:h:319:ASN:H	1.85	0.42
1:i:442:GLN:HA	1:j:360:HIS:HA	2.01	0.42
1:j:225:SER:HB2	1:j:319:ASN:H	1.85	0.42
1:j:309:ARG:NH2	1:j:686:GLU:OE1	2.31	0.42
1:l:225:SER:HB2	1:l:319:ASN:H	1.85	0.42
1:l:299:GLN:NE2	1:l:701:TYR:O	2.51	0.42
1:o:676:THR:HG22	1:o:677:GLY:N	2.34	0.42
1:q:397:LEU:HD23	1:q:648:LEU:HD23	2.01	0.42
1:r:225:SER:HB2	1:r:319:ASN:H	1.85	0.42
1:s:676:THR:HG22	1:s:677:GLY:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:242:THR:HG22	1:w:682:GLU:CG	2.50	0.42
1:z:483:SER:OG	1:z:577:TYR:HB2	2.19	0.42
1:A:397:LEU:HD23	1:A:648:LEU:HD23	2.01	0.42
1:B:242:THR:HG22	1:B:682:GLU:CG	2.50	0.42
1:B:309:ARG:NH2	1:B:686:GLU:OE1	2.31	0.42
1:C:483:SER:OG	1:C:577:TYR:HB2	2.19	0.42
1:D:545:LYS:O	1:D:548:THR:OG1	2.34	0.42
1:E:397:LEU:HD23	1:E:648:LEU:HD23	2.01	0.42
1:E:612:VAL:O	1:E:729:THR:HG23	2.20	0.42
1:F:355:VAL:O	1:F:355:VAL:HG12	2.20	0.42
1:H:434:ARG:NH2	1:W:514:ARG:HD2	2.35	0.42
1:J:225:SER:HB2	1:J:319:ASN:H	1.85	0.42
1:K:612:VAL:O	1:K:729:THR:HG23	2.20	0.42
1:L:708:SER:OG	1:L:710:ASN:O	2.37	0.42
1:M:225:SER:HB2	1:M:319:ASN:H	1.85	0.42
1:N:225:SER:HB2	1:N:319:ASN:H	1.85	0.42
1:N:434:ARG:NH2	1:P:514:ARG:HD2	2.35	0.42
1:N:676:THR:HG22	1:N:677:GLY:N	2.34	0.42
1:V:225:SER:HB2	1:V:319:ASN:H	1.85	0.42
1:V:355:VAL:O	1:V:355:VAL:HG12	2.20	0.42
1:Z:225:SER:HB2	1:Z:319:ASN:H	1.85	0.42
1:Z:309:ARG:NH2	1:Z:686:GLU:OE1	2.31	0.42
1:Z:360:HIS:HA	1:w:442:GLN:HA	2.02	0.42
1:1:225:SER:HB2	1:1:319:ASN:H	1.85	0.42
1:1:442:GLN:HA	1:8:360:HIS:HA	2.02	0.42
1:1:483:SER:OG	1:1:577:TYR:HB2	2.19	0.42
1:3:355:VAL:O	1:3:355:VAL:HG12	2.20	0.42
1:4:612:VAL:O	1:4:729:THR:HG23	2.20	0.42
1:5:434:ARG:NH2	1:b:514:ARG:HD2	2.35	0.42
1:5:511:LEU:HD12	1:a:480:PRO:HB3	2.01	0.42
1:a:299:GLN:NE2	1:a:701:TYR:O	2.51	0.42
1:c:355:VAL:CG1	1:e:437:ASN:HB2	2.43	0.42
1:d:355:VAL:O	1:d:355:VAL:HG12	2.20	0.42
1:d:434:ARG:NH2	1:e:514:ARG:HD2	2.35	0.42
1:h:676:THR:HG22	1:h:677:GLY:N	2.34	0.42
1:i:242:THR:HG22	1:i:682:GLU:CG	2.50	0.42
1:l:698:GLU:HG2	1:l:732:LEU:HD23	2.02	0.42
1:n:225:SER:HB2	1:n:319:ASN:H	1.85	0.42
1:o:355:VAL:O	1:o:355:VAL:HG12	2.20	0.42
1:q:437:ASN:HB2	1:r:355:VAL:CG1	2.43	0.42
1:t:397:LEU:HD23	1:t:648:LEU:HD23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:483:SER:OG	1:t:577:TYR:HB2	2.19	0.42
1:u:434:ARG:NH2	1:v:514:ARG:HD2	2.35	0.42
1:w:483:SER:OG	1:w:577:TYR:HB2	2.19	0.42
1:x:355:VAL:HG12	1:x:355:VAL:O	2.20	0.42
1:y:242:THR:HG22	1:y:682:GLU:CG	2.50	0.42
1:z:225:SER:HB2	1:z:319:ASN:H	1.85	0.42
1:z:696:ASN:HB2	1:z:697:PRO:HD2	2.01	0.42
1:A:355:VAL:CG1	1:I:437:ASN:HB2	2.43	0.41
1:D:480:PRO:HB3	1:N:511:LEU:HD12	2.01	0.41
1:E:225:SER:HB2	1:E:319:ASN:H	1.85	0.41
1:E:437:ASN:HB2	1:Q:355:VAL:CG1	2.43	0.41
1:J:698:GLU:HG2	1:J:732:LEU:HD23	2.02	0.41
1:K:242:THR:HG22	1:K:682:GLU:CG	2.50	0.41
1:K:634:LEU:HG	1:8:477:ASN:O	2.20	0.41
1:M:242:THR:HG22	1:M:682:GLU:CG	2.50	0.41
1:M:397:LEU:HD23	1:M:648:LEU:HD23	2.01	0.41
1:N:231:ASP:N	1:N:242:THR:OG1	2.46	0.41
1:N:309:ARG:HH21	1:N:686:GLU:CD	2.23	0.41
1:O:480:PRO:HB3	1:g:511:LEU:HD12	2.01	0.41
1:O:612:VAL:O	1:O:729:THR:HG23	2.20	0.41
1:P:367:PHE:HA	1:P:368:PRO:HD3	1.95	0.41
1:R:242:THR:HG22	1:R:682:GLU:CG	2.50	0.41
1:T:483:SER:OG	1:T:577:TYR:HB2	2.19	0.41
1:V:676:THR:HG22	1:V:677:GLY:N	2.34	0.41
1:W:676:THR:HG22	1:W:677:GLY:N	2.34	0.41
1:W:698:GLU:HG2	1:W:732:LEU:HD23	2.02	0.41
1:Y:242:THR:HG22	1:Y:682:GLU:CG	2.50	0.41
1:2:225:SER:HB2	1:2:319:ASN:H	1.85	0.41
1:2:698:GLU:HG2	1:2:732:LEU:HD23	2.02	0.41
1:3:480:PRO:HB3	1:i:511:LEU:HD12	2.00	0.41
1:4:355:VAL:O	1:4:355:VAL:HG12	2.20	0.41
1:4:397:LEU:HD23	1:4:648:LEU:HD23	2.01	0.41
1:5:630:HIS:O	1:5:632:SER:N	2.43	0.41
1:d:225:SER:HB2	1:d:319:ASN:H	1.85	0.41
1:d:231:ASP:N	1:d:242:THR:OG1	2.45	0.41
1:e:397:LEU:HD23	1:e:648:LEU:HD23	2.01	0.41
1:f:231:ASP:N	1:f:242:THR:OG1	2.46	0.41
1:f:242:THR:HG22	1:f:682:GLU:CG	2.50	0.41
1:g:698:GLU:HG2	1:g:732:LEU:HD23	2.02	0.41
1:i:225:SER:HB2	1:i:319:ASN:H	1.85	0.41
1:k:434:ARG:NH2	1:l:514:ARG:HD2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:480:PRO:HB3	1:m:511:LEU:HD12	2.01	0.41
1:m:242:THR:HG22	1:m:682:GLU:CG	2.50	0.41
1:n:698:GLU:HG2	1:n:732:LEU:HD23	2.02	0.41
1:o:299:GLN:NE2	1:o:701:TYR:O	2.51	0.41
1:p:242:THR:HG22	1:p:682:GLU:CG	2.50	0.41
1:q:676:THR:HG22	1:q:677:GLY:N	2.34	0.41
1:r:355:VAL:O	1:r:355:VAL:HG12	2.20	0.41
1:t:225:SER:HB2	1:t:319:ASN:H	1.85	0.41
1:t:242:THR:HG22	1:t:682:GLU:CG	2.50	0.41
1:u:483:SER:OG	1:u:577:TYR:HB2	2.19	0.41
1:v:397:LEU:HD23	1:v:648:LEU:HD23	2.01	0.41
1:w:225:SER:HB2	1:w:319:ASN:H	1.85	0.41
1:y:696:ASN:HB2	1:y:697:PRO:HD2	2.01	0.41
1:z:242:THR:HG22	1:z:682:GLU:CG	2.50	0.41
1:A:676:THR:HG22	1:A:677:GLY:N	2.34	0.41
1:D:231:ASP:OD1	1:D:242:THR:OG1	2.33	0.41
1:D:477:ASN:O	1:N:634:LEU:HG	2.20	0.41
1:D:698:GLU:HG2	1:D:732:LEU:HD23	2.02	0.41
1:E:242:THR:HG22	1:E:682:GLU:CG	2.50	0.41
1:G:355:VAL:O	1:G:355:VAL:HG12	2.20	0.41
1:I:696:ASN:HB2	1:I:697:PRO:HD2	2.01	0.41
1:J:442:GLN:HA	1:L:360:HIS:HA	2.02	0.41
1:L:242:THR:HG22	1:L:682:GLU:CG	2.50	0.41
1:M:355:VAL:HG12	1:M:355:VAL:O	2.20	0.41
1:N:355:VAL:O	1:N:355:VAL:HG12	2.20	0.41
1:N:630:HIS:O	1:N:632:SER:N	2.43	0.41
1:N:696:ASN:HB2	1:N:697:PRO:HD2	2.01	0.41
1:O:231:ASP:OD1	1:O:242:THR:OG1	2.33	0.41
1:S:483:SER:OG	1:S:577:TYR:HB2	2.19	0.41
1:S:702:THR:HG22	1:T:700:GLN:H	1.85	0.41
1:W:355:VAL:O	1:W:355:VAL:HG12	2.20	0.41
1:W:696:ASN:HB2	1:W:697:PRO:HD2	2.01	0.41
1:X:698:GLU:HG2	1:X:732:LEU:HD23	2.02	0.41
1:Y:698:GLU:HG2	1:Y:732:LEU:HD23	2.02	0.41
1:1:242:THR:HG22	1:1:682:GLU:CG	2.50	0.41
1:2:397:LEU:HD23	1:2:648:LEU:HD23	2.01	0.41
1:2:696:ASN:HB2	1:2:697:PRO:HD2	2.01	0.41
1:4:242:THR:HG22	1:4:682:GLU:CG	2.50	0.41
1:5:309:ARG:HH21	1:5:686:GLU:CD	2.23	0.41
1:5:612:VAL:O	1:5:729:THR:HG23	2.20	0.41
1:5:696:ASN:HB2	1:5:697:PRO:HD2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:698:GLU:HG2	1:a:732:LEU:HD23	2.02	0.41
1:e:225:SER:HB2	1:e:319:ASN:H	1.85	0.41
1:e:242:THR:HG22	1:e:682:GLU:CG	2.50	0.41
1:e:612:VAL:O	1:e:729:THR:HG23	2.20	0.41
1:h:290:HIS:HD2	1:h:366:PRO:HB3	1.81	0.41
1:h:355:VAL:HG12	1:h:355:VAL:O	2.20	0.41
1:i:483:SER:OG	1:i:577:TYR:HB2	2.19	0.41
1:j:311:LYS:CE	1:j:686:GLU:CB	2.86	0.41
1:l:676:THR:HG22	1:l:677:GLY:N	2.34	0.41
1:m:698:GLU:HG2	1:m:732:LEU:HD23	2.02	0.41
1:n:442:GLN:HA	1:o:360:HIS:HA	2.02	0.41
1:o:242:THR:HG22	1:o:682:GLU:CG	2.50	0.41
1:t:355:VAL:O	1:t:355:VAL:HG12	2.20	0.41
1:v:225:SER:HB2	1:v:319:ASN:H	1.85	0.41
1:v:696:ASN:HB2	1:v:697:PRO:HD2	2.01	0.41
1:w:698:GLU:HG2	1:w:732:LEU:HD23	2.02	0.41
1:y:290:HIS:HD2	1:y:366:PRO:HB3	1.81	0.41
1:z:612:VAL:O	1:z:729:THR:HG23	2.20	0.41
1:7:231:ASP:OD1	1:7:242:THR:OG1	2.33	0.41
1:7:367:PHE:HA	1:7:368:PRO:HD3	1.95	0.41
1:A:442:GLN:HA	1:G:360:HIS:HA	2.01	0.41
1:B:442:GLN:HA	1:J:360:HIS:HA	2.02	0.41
1:B:698:GLU:HG2	1:B:732:LEU:HD23	2.02	0.41
1:D:434:ARG:NH2	1:N:514:ARG:HD2	2.35	0.41
1:F:225:SER:HB2	1:F:319:ASN:H	1.85	0.41
1:F:514:ARG:HD2	1:Q:434:ARG:NH2	2.35	0.41
1:H:698:GLU:HG2	1:H:732:LEU:HD23	2.02	0.41
1:J:242:THR:HG22	1:J:682:GLU:CG	2.50	0.41
1:K:696:ASN:HB2	1:K:697:PRO:HD2	2.01	0.41
1:L:225:SER:HB2	1:L:319:ASN:H	1.85	0.41
1:L:299:GLN:NE2	1:L:701:TYR:O	2.51	0.41
1:L:698:GLU:HG2	1:L:732:LEU:HD23	2.02	0.41
1:N:612:VAL:O	1:N:729:THR:HG23	2.20	0.41
1:O:242:THR:HG22	1:O:682:GLU:CG	2.50	0.41
1:O:546:GLN:NE2	1:O:721:TYR:O	2.45	0.41
1:P:225:SER:HB2	1:P:319:ASN:H	1.85	0.41
1:R:612:VAL:O	1:R:729:THR:HG23	2.20	0.41
1:W:434:ARG:NH2	1:Y:514:ARG:HD2	2.35	0.41
1:W:480:PRO:HB3	1:Y:511:LEU:HD12	2.01	0.41
1:X:231:ASP:OD1	1:X:242:THR:OG1	2.33	0.41
1:Z:442:GLN:HA	1:x:360:HIS:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:612:VAL:O	1:1:729:THR:HG23	2.20	0.41
1:4:546:GLN:NE2	1:4:721:TYR:O	2.45	0.41
1:5:355:VAL:O	1:5:355:VAL:HG12	2.20	0.41
1:5:442:GLN:HA	1:b:360:HIS:HA	2.01	0.41
1:5:634:LEU:HG	1:a:477:ASN:O	2.20	0.41
1:a:355:VAL:O	1:a:355:VAL:HG12	2.20	0.41
1:a:545:LYS:O	1:a:548:THR:OG1	2.34	0.41
1:b:367:PHE:HA	1:b:368:PRO:HD3	1.95	0.41
1:f:698:GLU:HG2	1:f:732:LEU:HD23	2.02	0.41
1:i:698:GLU:HG2	1:i:732:LEU:HD23	2.02	0.41
1:k:698:GLU:HG2	1:k:732:LEU:HD23	2.02	0.41
1:l:355:VAL:O	1:l:355:VAL:HG12	2.20	0.41
1:l:434:ARG:NH2	1:m:514:ARG:HD2	2.35	0.41
1:n:242:THR:HG22	1:n:682:GLU:CG	2.50	0.41
1:s:612:VAL:O	1:s:729:THR:HG23	2.20	0.41
1:s:696:ASN:HB2	1:s:697:PRO:HD2	2.01	0.41
1:t:398:GLU:OE1	1:t:650:LYS:NZ	2.44	0.41
1:v:698:GLU:HG2	1:v:732:LEU:HD23	2.02	0.41
1:x:696:ASN:HB2	1:x:697:PRO:HD2	2.01	0.41
1:y:398:GLU:OE1	1:y:650:LYS:NZ	2.44	0.41
1:C:442:GLN:HA	1:2:360:HIS:HA	2.01	0.41
1:D:355:VAL:O	1:D:355:VAL:HG12	2.20	0.41
1:E:355:VAL:HG12	1:E:355:VAL:O	2.20	0.41
1:E:698:GLU:HG2	1:E:732:LEU:HD23	2.02	0.41
1:F:696:ASN:HB2	1:F:697:PRO:HD2	2.01	0.41
1:F:698:GLU:HG2	1:F:732:LEU:HD23	2.02	0.41
1:G:702:THR:HG22	1:H:700:GLN:H	1.86	0.41
1:I:612:VAL:O	1:I:729:THR:HG23	2.20	0.41
1:J:696:ASN:HB2	1:J:697:PRO:HD2	2.01	0.41
1:K:442:GLN:HA	1:1:360:HIS:HA	2.01	0.41
1:K:698:GLU:HG2	1:K:732:LEU:HD23	2.02	0.41
1:L:696:ASN:HB2	1:L:697:PRO:HD2	2.01	0.41
1:N:442:GLN:HA	1:P:360:HIS:HA	2.01	0.41
1:O:425:SER:O	1:O:730:ARG:HA	2.21	0.41
1:Q:309:ARG:NH2	1:Q:686:GLU:OE1	2.31	0.41
1:R:698:GLU:HG2	1:R:732:LEU:HD23	2.02	0.41
1:S:696:ASN:HB2	1:S:697:PRO:HD2	2.01	0.41
1:T:696:ASN:HB2	1:T:697:PRO:HD2	2.01	0.41
1:U:242:THR:HG22	1:U:682:GLU:CG	2.50	0.41
1:U:612:VAL:O	1:U:729:THR:HG23	2.20	0.41
1:V:290:HIS:HD2	1:V:366:PRO:HB3	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:397:LEU:HD23	1:Y:648:LEU:HD23	2.01	0.41
1:1:425:SER:O	1:1:730:ARG:HA	2.21	0.41
1:2:231:ASP:N	1:2:242:THR:OG1	2.45	0.41
1:2:355:VAL:HG12	1:2:355:VAL:O	2.20	0.41
1:3:425:SER:O	1:3:730:ARG:HA	2.21	0.41
1:4:231:ASP:OD1	1:4:242:THR:OG1	2.33	0.41
1:4:425:SER:O	1:4:730:ARG:HA	2.21	0.41
1:4:702:THR:HG22	1:5:700:GLN:H	1.86	0.41
1:b:225:SER:HB2	1:b:319:ASN:H	1.85	0.41
1:d:698:GLU:HG2	1:d:732:LEU:HD23	2.02	0.41
1:e:355:VAL:O	1:e:355:VAL:HG12	2.20	0.41
1:e:698:GLU:HG2	1:e:732:LEU:HD23	2.02	0.41
1:f:612:VAL:O	1:f:729:THR:HG23	2.20	0.41
1:i:612:VAL:O	1:i:729:THR:HG23	2.20	0.41
1:j:696:ASN:HB2	1:j:697:PRO:HD2	2.01	0.41
1:k:700:GLN:H	1:r:702:THR:HG22	1.86	0.41
1:l:696:ASN:HB2	1:l:697:PRO:HD2	2.01	0.41
1:n:700:GLN:H	1:y:702:THR:HG22	1.86	0.41
1:o:225:SER:HB2	1:o:319:ASN:H	1.85	0.41
1:o:696:ASN:HB2	1:o:697:PRO:HD2	2.01	0.41
1:p:698:GLU:HG2	1:p:732:LEU:HD23	2.02	0.41
1:p:702:THR:HG22	1:s:700:GLN:H	1.86	0.41
1:q:442:GLN:HA	1:r:360:HIS:HA	2.02	0.41
1:v:355:VAL:O	1:v:355:VAL:HG12	2.20	0.41
1:w:612:VAL:O	1:w:729:THR:HG23	2.20	0.41
1:y:698:GLU:HG2	1:y:732:LEU:HD23	2.02	0.41
1:A:350:TYR:OH	1:A:643:PRO:O	2.32	0.41
1:B:225:SER:HB2	1:B:319:ASN:H	1.85	0.41
1:B:287:ASN:O	1:B:617:PRO:HA	2.21	0.41
1:B:702:THR:HG22	1:I:700:GLN:H	1.86	0.41
1:C:242:THR:HG22	1:C:682:GLU:CG	2.50	0.41
1:E:287:ASN:O	1:E:617:PRO:HA	2.21	0.41
1:E:360:HIS:HA	1:F:442:GLN:HA	2.02	0.41
1:G:242:THR:HG22	1:G:682:GLU:CG	2.50	0.41
1:G:442:GLN:HA	1:I:360:HIS:HA	2.01	0.41
1:H:355:VAL:O	1:H:355:VAL:HG12	2.20	0.41
1:H:696:ASN:HB2	1:H:697:PRO:HD2	2.01	0.41
1:H:708:SER:OG	1:H:710:ASN:O	2.37	0.41
1:L:397:LEU:HD23	1:L:648:LEU:HD23	2.01	0.41
1:M:698:GLU:HG2	1:M:732:LEU:HD23	2.02	0.41
1:N:425:SER:O	1:N:730:ARG:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:225:SER:HB2	1:O:319:ASN:H	1.85	0.41
1:O:514:ARG:HD2	1:h:434:ARG:NH2	2.35	0.41
1:Q:242:THR:HG22	1:Q:682:GLU:CG	2.50	0.41
1:Q:287:ASN:O	1:Q:617:PRO:HA	2.21	0.41
1:Q:398:GLU:OE1	1:Q:650:LYS:NZ	2.44	0.41
1:Q:425:SER:O	1:Q:730:ARG:HA	2.21	0.41
1:W:700:GLN:H	1:X:702:THR:HG22	1.86	0.41
1:X:514:ARG:HD2	1:4:434:ARG:NH2	2.35	0.41
1:Z:696:ASN:HB2	1:Z:697:PRO:HD2	2.01	0.41
1:3:360:HIS:HA	1:j:442:GLN:HA	2.02	0.41
1:5:514:ARG:HD2	1:a:434:ARG:NH2	2.35	0.41
1:a:231:ASP:OD1	1:a:242:THR:OG1	2.33	0.41
1:c:287:ASN:O	1:c:617:PRO:HA	2.21	0.41
1:c:360:HIS:HA	1:e:442:GLN:HA	2.01	0.41
1:c:425:SER:O	1:c:730:ARG:HA	2.21	0.41
1:c:434:ARG:NH2	1:d:514:ARG:HD2	2.35	0.41
1:d:696:ASN:HB2	1:d:697:PRO:HD2	2.01	0.41
1:e:287:ASN:O	1:e:617:PRO:HA	2.21	0.41
1:g:397:LEU:HD23	1:g:648:LEU:HD23	2.01	0.41
1:j:355:VAL:O	1:j:355:VAL:HG12	2.20	0.41
1:k:287:ASN:O	1:k:617:PRO:HA	2.21	0.41
1:k:696:ASN:HB2	1:k:697:PRO:HD2	2.01	0.41
1:l:425:SER:O	1:l:730:ARG:HA	2.21	0.41
1:l:612:VAL:O	1:l:729:THR:HG23	2.20	0.41
1:m:231:ASP:OD1	1:m:242:THR:OG1	2.33	0.41
1:m:397:LEU:HD23	1:m:648:LEU:HD23	2.01	0.41
1:n:360:HIS:HA	1:p:442:GLN:HA	2.02	0.41
1:o:698:GLU:HG2	1:o:732:LEU:HD23	2.02	0.41
1:p:287:ASN:O	1:p:617:PRO:HA	2.21	0.41
1:q:225:SER:HB2	1:q:319:ASN:H	1.85	0.41
1:q:350:TYR:OH	1:q:643:PRO:O	2.32	0.41
1:q:355:VAL:CG1	1:s:437:ASN:HB2	2.43	0.41
1:q:425:SER:O	1:q:730:ARG:HA	2.21	0.41
1:r:442:GLN:HA	1:s:360:HIS:HA	2.01	0.41
1:t:698:GLU:HG2	1:t:732:LEU:HD23	2.02	0.41
1:v:700:GLN:H	1:x:702:THR:HG22	1.86	0.41
1:x:425:SER:O	1:x:730:ARG:HA	2.21	0.41
1:y:442:GLN:HA	1:z:360:HIS:HA	2.01	0.41
1:z:355:VAL:O	1:z:355:VAL:HG12	2.20	0.41
1:z:425:SER:O	1:z:730:ARG:HA	2.21	0.41
1:z:434:ARG:NH2	1:7:514:ARG:HD2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:225:SER:HB2	1:8:319:ASN:H	1.85	0.41
1:A:225:SER:HB2	1:A:319:ASN:H	1.85	0.41
1:A:287:ASN:O	1:A:617:PRO:HA	2.21	0.41
1:A:425:SER:O	1:A:730:ARG:HA	2.21	0.41
1:A:514:ARG:HD2	1:I:434:ARG:NH2	2.35	0.41
1:B:434:ARG:NH2	1:J:514:ARG:HD2	2.35	0.41
1:D:242:THR:HG22	1:D:682:GLU:CG	2.50	0.41
1:D:397:LEU:HD23	1:D:648:LEU:HD23	2.01	0.41
1:H:287:ASN:O	1:H:617:PRO:HA	2.21	0.41
1:H:514:ARG:HD2	1:Y:434:ARG:NH2	2.35	0.41
1:K:397:LEU:HD23	1:K:648:LEU:HD23	2.01	0.41
1:M:425:SER:O	1:M:730:ARG:HA	2.21	0.41
1:N:700:GLN:H	1:O:702:THR:HG22	1.86	0.41
1:O:442:GLN:HA	1:g:360:HIS:HA	2.03	0.41
1:P:397:LEU:HD23	1:P:648:LEU:HD23	2.01	0.41
1:P:708:SER:OG	1:P:710:ASN:O	2.37	0.41
1:Q:355:VAL:O	1:Q:355:VAL:HG12	2.20	0.41
1:Q:700:GLN:H	1:R:702:THR:HG22	1.86	0.41
1:V:360:HIS:HA	1:X:442:GLN:HA	2.02	0.41
1:V:397:LEU:HD23	1:V:648:LEU:HD23	2.01	0.41
1:V:514:ARG:HD2	1:X:434:ARG:NH2	2.35	0.41
1:W:425:SER:O	1:W:730:ARG:HA	2.21	0.41
1:W:612:VAL:O	1:W:729:THR:HG23	2.20	0.41
1:X:397:LEU:HD23	1:X:648:LEU:HD23	2.01	0.41
1:Z:311:LYS:CE	1:Z:686:GLU:CB	2.86	0.41
1:Z:355:VAL:O	1:Z:355:VAL:HG12	2.20	0.41
1:Z:397:LEU:HD23	1:Z:648:LEU:HD23	2.01	0.41
1:1:355:VAL:O	1:1:355:VAL:HG12	2.20	0.41
1:1:702:THR:HG22	1:w:700:GLN:H	1.86	0.41
1:2:700:GLN:H	1:3:702:THR:HG22	1.86	0.41
1:3:434:ARG:NH2	1:i:514:ARG:HD2	2.35	0.41
1:3:696:ASN:HB2	1:3:697:PRO:HD2	2.01	0.41
1:4:545:LYS:O	1:4:548:THR:OG1	2.34	0.41
1:5:425:SER:O	1:5:730:ARG:HA	2.21	0.41
1:a:242:THR:HG22	1:a:682:GLU:CG	2.50	0.41
1:a:397:LEU:HD23	1:a:648:LEU:HD23	2.01	0.41
1:c:242:THR:HG22	1:c:682:GLU:CG	2.50	0.41
1:g:225:SER:HB2	1:g:319:ASN:H	1.85	0.41
1:g:434:ARG:NH2	1:h:514:ARG:HD2	2.35	0.41
1:g:702:THR:HG22	1:l:700:GLN:H	1.86	0.41
1:h:425:SER:O	1:h:730:ARG:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:355:VAL:O	1:i:355:VAL:HG12	2.20	0.41
1:i:702:THR:HG22	1:z:700:GLN:H	1.86	0.41
1:j:698:GLU:HG2	1:j:732:LEU:HD23	2.02	0.41
1:k:514:ARG:HD2	1:m:434:ARG:NH2	2.35	0.41
1:l:398:GLU:OE1	1:l:650:LYS:NZ	2.44	0.41
1:m:708:SER:OG	1:m:710:ASN:O	2.37	0.41
1:n:696:ASN:HB2	1:n:697:PRO:HD2	2.01	0.41
1:o:397:LEU:HD23	1:o:648:LEU:HD23	2.01	0.41
1:q:287:ASN:O	1:q:617:PRO:HA	2.21	0.41
1:r:425:SER:O	1:r:730:ARG:HA	2.21	0.41
1:r:698:GLU:HG2	1:r:732:LEU:HD23	2.02	0.41
1:u:242:THR:HG22	1:u:682:GLU:CG	2.50	0.41
1:u:442:GLN:HA	1:v:360:HIS:HA	2.01	0.41
1:w:287:ASN:O	1:w:617:PRO:HA	2.21	0.41
1:y:360:HIS:HA	1:7:442:GLN:HA	2.02	0.41
1:A:696:ASN:HB2	1:A:697:PRO:HD2	2.01	0.41
1:C:425:SER:O	1:C:730:ARG:HA	2.21	0.41
1:C:634:LEU:HG	1:M:477:ASN:O	2.20	0.41
1:D:425:SER:O	1:D:730:ARG:HA	2.21	0.41
1:E:425:SER:O	1:E:730:ARG:HA	2.21	0.41
1:E:442:GLN:HA	1:Q:360:HIS:HA	2.01	0.41
1:G:425:SER:O	1:G:730:ARG:HA	2.21	0.41
1:G:698:GLU:HG2	1:G:732:LEU:HD23	2.02	0.41
1:I:287:ASN:O	1:I:617:PRO:HA	2.21	0.41
1:J:397:LEU:HD23	1:J:648:LEU:HD23	2.01	0.41
1:J:434:ARG:NH2	1:L:514:ARG:HD2	2.35	0.41
1:K:287:ASN:O	1:K:617:PRO:HA	2.21	0.41
1:O:545:LYS:O	1:O:548:THR:OG1	2.34	0.41
1:P:309:ARG:O	1:P:686:GLU:N	2.46	0.41
1:S:242:THR:HG22	1:S:682:GLU:CG	2.50	0.41
1:T:242:THR:HG22	1:T:682:GLU:CG	2.50	0.41
1:U:287:ASN:O	1:U:617:PRO:HA	2.21	0.41
1:V:425:SER:O	1:V:730:ARG:HA	2.21	0.41
1:V:434:ARG:NH2	1:4:514:ARG:HD2	2.35	0.41
1:X:225:SER:HB2	1:X:319:ASN:H	1.85	0.41
1:Y:225:SER:HB2	1:Y:319:ASN:H	1.85	0.41
1:Y:708:SER:OG	1:Y:710:ASN:O	2.37	0.41
1:1:700:GLN:H	1:w:702:THR:HG22	1.86	0.41
1:4:700:GLN:H	1:5:702:THR:HG22	1.86	0.41
1:b:242:THR:HG22	1:b:682:GLU:CG	2.50	0.41
1:c:398:GLU:OE1	1:c:650:LYS:NZ	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:442:GLN:HA	1:e:360:HIS:HA	2.02	0.41
1:f:425:SER:O	1:f:730:ARG:HA	2.21	0.41
1:g:442:GLN:HA	1:h:360:HIS:HA	2.02	0.41
1:i:287:ASN:O	1:i:617:PRO:HA	2.21	0.41
1:i:700:GLN:H	1:z:702:THR:HG22	1.86	0.41
1:j:397:LEU:HD23	1:j:648:LEU:HD23	2.01	0.41
1:k:355:VAL:O	1:k:355:VAL:HG12	2.20	0.41
1:m:225:SER:HB2	1:m:319:ASN:H	1.85	0.41
1:n:425:SER:O	1:n:730:ARG:HA	2.21	0.41
1:n:514:ARG:HD2	1:p:434:ARG:NH2	2.35	0.41
1:n:612:VAL:O	1:n:729:THR:HG23	2.20	0.41
1:o:367:PHE:HA	1:o:368:PRO:HD3	1.95	0.41
1:p:225:SER:HB2	1:p:319:ASN:H	1.85	0.41
1:p:700:GLN:H	1:s:702:THR:HG22	1.86	0.41
1:q:355:VAL:O	1:q:355:VAL:HG12	2.20	0.41
1:q:434:ARG:NH2	1:r:514:ARG:HD2	2.35	0.41
1:q:514:ARG:HD2	1:s:434:ARG:NH2	2.35	0.41
1:q:696:ASN:HB2	1:q:697:PRO:HD2	2.01	0.41
1:r:242:THR:HG22	1:r:682:GLU:CG	2.50	0.41
1:s:287:ASN:O	1:s:617:PRO:HA	2.21	0.41
1:t:309:ARG:NH2	1:t:686:GLU:OE1	2.31	0.41
1:t:425:SER:O	1:t:730:ARG:HA	2.21	0.41
1:u:287:ASN:O	1:u:617:PRO:HA	2.21	0.41
1:v:231:ASP:N	1:v:242:THR:OG1	2.45	0.41
1:w:514:ARG:HD2	1:x:434:ARG:NH2	2.35	0.41
1:x:225:SER:HB2	1:x:319:ASN:H	1.85	0.41
1:y:287:ASN:O	1:y:617:PRO:HA	2.21	0.41
1:y:397:LEU:HD23	1:y:648:LEU:HD23	2.01	0.41
1:7:225:SER:HB2	1:7:319:ASN:H	1.85	0.41
1:8:287:ASN:O	1:8:617:PRO:HA	2.21	0.41
1:8:367:PHE:HA	1:8:368:PRO:HD3	1.95	0.41
1:8:698:GLU:HG2	1:8:732:LEU:HD23	2.02	0.41
1:A:298:TRP:HE1	1:A:727:ILE:HG22	1.86	0.41
1:A:355:VAL:O	1:A:355:VAL:HG12	2.20	0.41
1:B:700:GLN:H	1:I:702:THR:HG22	1.86	0.41
1:C:287:ASN:O	1:C:617:PRO:HA	2.21	0.41
1:C:519:ASN:CB	1:M:475:GLY:HA2	2.51	0.41
1:D:475:GLY:HA2	1:N:519:ASN:CB	2.51	0.41
1:D:511:LEU:HD12	1:P:480:PRO:HB3	2.03	0.41
1:E:309:ARG:NH2	1:E:686:GLU:OE1	2.31	0.41
1:G:700:GLN:H	1:H:702:THR:HG22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:425:SER:O	1:I:730:ARG:HA	2.21	0.41
1:J:425:SER:O	1:J:730:ARG:HA	2.21	0.41
1:J:612:VAL:O	1:J:729:THR:HG23	2.20	0.41
1:L:287:ASN:O	1:L:617:PRO:HA	2.21	0.41
1:L:425:SER:O	1:L:730:ARG:HA	2.21	0.41
1:P:242:THR:HG22	1:P:682:GLU:CG	2.50	0.41
1:Q:299:GLN:NE2	1:Q:701:TYR:O	2.51	0.41
1:R:425:SER:O	1:R:730:ARG:HA	2.21	0.41
1:S:434:ARG:NH2	1:U:514:ARG:HD2	2.36	0.41
1:S:442:GLN:HA	1:U:360:HIS:HA	2.01	0.41
1:T:514:ARG:HD2	1:f:434:ARG:NH2	2.35	0.41
1:U:397:LEU:HD23	1:U:648:LEU:HD23	2.01	0.41
1:V:698:GLU:HG2	1:V:732:LEU:HD23	2.02	0.41
1:W:309:ARG:O	1:W:686:GLU:N	2.46	0.41
1:W:702:THR:HG22	1:X:700:GLN:H	1.86	0.41
1:X:287:ASN:O	1:X:617:PRO:HA	2.21	0.41
1:X:298:TRP:HE1	1:X:727:ILE:HG22	1.86	0.41
1:Z:231:ASP:N	1:Z:242:THR:OG1	2.45	0.41
1:Z:698:GLU:HG2	1:Z:732:LEU:HD23	2.02	0.41
1:3:225:SER:HB2	1:3:319:ASN:H	1.85	0.41
1:3:287:ASN:O	1:3:617:PRO:HA	2.21	0.41
1:4:225:SER:HB2	1:4:319:ASN:H	1.85	0.41
1:5:298:TRP:HE1	1:5:727:ILE:HG22	1.86	0.41
1:5:309:ARG:O	1:5:686:GLU:N	2.46	0.41
1:a:425:SER:O	1:a:730:ARG:HA	2.21	0.41
1:b:397:LEU:HD23	1:b:648:LEU:HD23	2.01	0.41
1:c:355:VAL:O	1:c:355:VAL:HG12	2.20	0.41
1:c:700:GLN:H	1:f:702:THR:HG22	1.86	0.41
1:e:425:SER:O	1:e:730:ARG:HA	2.21	0.41
1:f:225:SER:HB2	1:f:319:ASN:H	1.85	0.41
1:g:298:TRP:HE1	1:g:727:ILE:HG22	1.86	0.41
1:h:397:LEU:HD23	1:h:648:LEU:HD23	2.01	0.41
1:h:698:GLU:HG2	1:h:732:LEU:HD23	2.02	0.41
1:i:425:SER:O	1:i:730:ARG:HA	2.21	0.41
1:k:702:THR:HG22	1:r:700:GLN:H	1.86	0.41
1:n:397:LEU:HD23	1:n:648:LEU:HD23	2.01	0.41
1:o:287:ASN:O	1:o:617:PRO:HA	2.21	0.41
1:o:425:SER:O	1:o:730:ARG:HA	2.21	0.41
1:p:231:ASP:OD1	1:p:242:THR:OG1	2.33	0.41
1:q:242:THR:HG22	1:q:682:GLU:CG	2.50	0.41
1:q:298:TRP:HE1	1:q:727:ILE:HG22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:698:GLU:HG2	1:q:732:LEU:HD23	2.02	0.41
1:r:545:LYS:O	1:r:548:THR:OG1	2.34	0.41
1:t:477:ASN:O	1:u:634:LEU:HG	2.20	0.41
1:u:425:SER:O	1:u:730:ARG:HA	2.21	0.41
1:w:355:VAL:O	1:w:355:VAL:HG12	2.20	0.41
1:w:425:SER:O	1:w:730:ARG:HA	2.21	0.41
1:x:287:ASN:O	1:x:617:PRO:HA	2.21	0.41
1:x:698:GLU:HG2	1:x:732:LEU:HD23	2.02	0.41
1:z:698:GLU:HG2	1:z:732:LEU:HD23	2.02	0.41
1:7:287:ASN:O	1:7:617:PRO:HA	2.21	0.41
1:8:298:TRP:HE1	1:8:727:ILE:HG22	1.86	0.41
1:A:242:THR:HG22	1:A:682:GLU:CG	2.50	0.41
1:A:434:ARG:NH2	1:G:514:ARG:HD2	2.35	0.41
1:A:698:GLU:HG2	1:A:732:LEU:HD23	2.02	0.41
1:B:514:ARG:HD2	1:L:434:ARG:NH2	2.35	0.41
1:C:298:TRP:HE1	1:C:727:ILE:HG22	1.86	0.41
1:D:231:ASP:N	1:D:242:THR:OG1	2.46	0.41
1:D:384:ASP:OD2	1:E:707:LYS:NZ	2.35	0.41
1:D:584:HIS:NE2	1:N:575:GLU:OE1	2.42	0.41
1:G:231:ASP:N	1:G:242:THR:OG1	2.45	0.41
1:G:298:TRP:HE1	1:G:727:ILE:HG22	1.86	0.41
1:H:225:SER:HB2	1:H:319:ASN:H	1.85	0.41
1:I:242:THR:HG22	1:I:682:GLU:CG	2.50	0.41
1:J:355:VAL:O	1:J:355:VAL:HG12	2.20	0.41
1:J:700:GLN:H	1:K:702:THR:HG22	1.86	0.41
1:K:367:PHE:HA	1:K:368:PRO:HD3	1.95	0.41
1:K:529:GLU:OE1	1:K:529:GLU:N	2.54	0.41
1:M:287:ASN:O	1:M:617:PRO:HA	2.21	0.41
1:M:511:LEU:HD12	1:2:480:PRO:HB3	2.03	0.41
1:N:242:THR:HG22	1:N:682:GLU:CG	2.50	0.41
1:N:298:TRP:HE1	1:N:727:ILE:HG22	1.86	0.41
1:N:702:THR:HG22	1:O:700:GLN:H	1.86	0.41
1:O:287:ASN:O	1:O:617:PRO:HA	2.21	0.41
1:O:298:TRP:HE1	1:O:727:ILE:HG22	1.86	0.41
1:O:529:GLU:OE1	1:O:529:GLU:N	2.54	0.41
1:P:287:ASN:O	1:P:617:PRO:HA	2.21	0.41
1:Q:225:SER:HB2	1:Q:319:ASN:H	1.85	0.41
1:Q:350:TYR:OH	1:Q:643:PRO:O	2.32	0.41
1:Q:698:GLU:HG2	1:Q:732:LEU:HD23	2.02	0.41
1:R:225:SER:HB2	1:R:319:ASN:H	1.85	0.41
1:R:514:ARG:HD2	1:U:434:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:298:TRP:HE1	1:S:727:ILE:HG22	1.86	0.41
1:T:298:TRP:HE1	1:T:727:ILE:HG22	1.86	0.41
1:U:367:PHE:HA	1:U:368:PRO:HD3	1.95	0.41
1:U:698:GLU:HG2	1:U:732:LEU:HD23	2.02	0.41
1:V:242:THR:HG22	1:V:682:GLU:CG	2.50	0.41
1:X:425:SER:O	1:X:730:ARG:HA	2.21	0.41
1:X:708:SER:OG	1:X:710:ASN:O	2.37	0.41
1:Z:298:TRP:HE1	1:Z:727:ILE:HG22	1.86	0.41
1:Z:437:ASN:HB2	1:x:355:VAL:CG1	2.43	0.41
1:1:698:GLU:HG2	1:1:732:LEU:HD23	2.02	0.41
1:3:437:ASN:HB2	1:i:355:VAL:CG1	2.43	0.41
1:3:698:GLU:HG2	1:3:732:LEU:HD23	2.02	0.41
1:4:287:ASN:O	1:4:617:PRO:HA	2.21	0.41
1:4:298:TRP:HE1	1:4:727:ILE:HG22	1.86	0.41
1:4:529:GLU:OE1	1:4:529:GLU:N	2.54	0.41
1:5:242:THR:HG22	1:5:682:GLU:CG	2.50	0.41
1:5:519:ASN:CB	1:a:475:GLY:HA2	2.51	0.41
1:a:511:LEU:HD12	1:b:480:PRO:HB3	2.03	0.41
1:b:287:ASN:O	1:b:617:PRO:HA	2.21	0.41
1:b:309:ARG:O	1:b:686:GLU:N	2.46	0.41
1:b:355:VAL:O	1:b:355:VAL:HG12	2.20	0.41
1:b:698:GLU:HG2	1:b:732:LEU:HD23	2.02	0.41
1:c:225:SER:HB2	1:c:319:ASN:H	1.85	0.41
1:c:299:GLN:NE2	1:c:701:TYR:O	2.51	0.41
1:c:545:LYS:O	1:c:548:THR:OG1	2.34	0.41
1:c:698:GLU:HG2	1:c:732:LEU:HD23	2.02	0.41
1:g:287:ASN:O	1:g:617:PRO:HA	2.21	0.41
1:g:529:GLU:OE1	1:g:529:GLU:N	2.54	0.41
1:g:700:GLN:H	1:l:702:THR:HG22	1.86	0.41
1:h:242:THR:HG22	1:h:682:GLU:CG	2.50	0.41
1:i:298:TRP:HE1	1:i:727:ILE:HG22	1.86	0.41
1:j:231:ASP:N	1:j:242:THR:OG1	2.45	0.41
1:j:298:TRP:HE1	1:j:727:ILE:HG22	1.86	0.41
1:k:225:SER:HB2	1:k:319:ASN:H	1.85	0.41
1:l:309:ARG:O	1:l:686:GLU:N	2.46	0.41
1:n:355:VAL:O	1:n:355:VAL:HG12	2.20	0.41
1:n:434:ARG:NH2	1:o:514:ARG:HD2	2.35	0.41
1:o:434:ARG:NH2	1:p:514:ARG:HD2	2.35	0.41
1:r:231:ASP:OD1	1:r:242:THR:OG1	2.33	0.41
1:r:298:TRP:HE1	1:r:727:ILE:HG22	1.86	0.41
1:s:242:THR:HG22	1:s:682:GLU:CG	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:425:SER:O	1:s:730:ARG:HA	2.21	0.41
1:t:475:GLY:HA2	1:u:519:ASN:CB	2.51	0.41
1:t:511:LEU:HD12	1:v:480:PRO:HB3	2.03	0.41
1:w:298:TRP:HE1	1:w:727:ILE:HG22	1.86	0.41
1:w:355:VAL:CG1	1:x:437:ASN:HB2	2.43	0.41
1:w:444:LEU:HD23	1:w:444:LEU:HA	1.90	0.41
1:y:434:ARG:NH2	1:z:514:ARG:HD2	2.35	0.41
1:7:298:TRP:HE1	1:7:727:ILE:HG22	1.86	0.41
1:7:355:VAL:O	1:7:355:VAL:HG12	2.20	0.41
1:7:698:GLU:HG2	1:7:732:LEU:HD23	2.02	0.41
1:7:700:GLN:H	1:8:702:THR:HG22	1.86	0.41
1:8:355:VAL:O	1:8:355:VAL:HG12	2.20	0.41
1:A:360:HIS:HA	1:I:442:GLN:HA	2.01	0.41
1:B:298:TRP:HE1	1:B:727:ILE:HG22	1.86	0.41
1:C:700:GLN:H	1:L:702:THR:HG22	1.86	0.41
1:H:425:SER:O	1:H:730:ARG:HA	2.21	0.41
1:L:529:GLU:OE1	1:L:529:GLU:N	2.54	0.41
1:N:309:ARG:O	1:N:686:GLU:N	2.46	0.41
1:P:355:VAL:O	1:P:355:VAL:HG12	2.20	0.41
1:R:529:GLU:OE1	1:R:529:GLU:N	2.54	0.41
1:S:700:GLN:H	1:T:702:THR:HG22	1.86	0.41
1:U:298:TRP:HE1	1:U:727:ILE:HG22	1.86	0.41
1:V:287:ASN:O	1:V:617:PRO:HA	2.21	0.41
1:X:529:GLU:OE1	1:X:529:GLU:N	2.54	0.41
1:Y:287:ASN:O	1:Y:617:PRO:HA	2.21	0.41
1:Y:425:SER:O	1:Y:730:ARG:HA	2.21	0.41
1:Y:702:THR:HG22	1:Z:700:GLN:H	1.86	0.41
1:2:242:THR:HG22	1:2:682:GLU:CG	2.50	0.41
1:2:529:GLU:OE1	1:2:529:GLU:N	2.54	0.41
1:2:702:THR:HG22	1:3:700:GLN:H	1.86	0.41
1:b:309:ARG:HH21	1:b:686:GLU:CD	2.23	0.41
1:f:529:GLU:OE1	1:f:529:GLU:N	2.54	0.41
1:g:425:SER:O	1:g:730:ARG:HA	2.21	0.41
1:g:708:SER:OG	1:g:710:ASN:O	2.37	0.41
1:h:287:ASN:O	1:h:617:PRO:HA	2.21	0.41
1:j:700:GLN:H	1:m:702:THR:HG22	1.86	0.41
1:m:355:VAL:O	1:m:355:VAL:HG12	2.20	0.41
1:q:360:HIS:HA	1:s:442:GLN:HA	2.01	0.41
1:t:287:ASN:O	1:t:617:PRO:HA	2.21	0.41
1:u:298:TRP:HE1	1:u:727:ILE:HG22	1.86	0.41
1:v:529:GLU:OE1	1:v:529:GLU:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:367:PHE:HA	1:y:368:PRO:HD3	1.95	0.41
1:y:425:SER:O	1:y:730:ARG:HA	2.21	0.41
1:y:529:GLU:OE1	1:y:529:GLU:N	2.54	0.41
1:8:398:GLU:OE1	1:8:650:LYS:NZ	2.44	0.41
1:A:529:GLU:OE1	1:A:529:GLU:N	2.54	0.40
1:D:287:ASN:O	1:D:617:PRO:HA	2.21	0.40
1:D:529:GLU:OE1	1:D:529:GLU:N	2.54	0.40
1:H:299:GLN:NE2	1:H:701:TYR:O	2.51	0.40
1:J:529:GLU:OE1	1:J:529:GLU:N	2.54	0.40
1:K:355:VAL:O	1:K:355:VAL:HG12	2.20	0.40
1:K:425:SER:O	1:K:730:ARG:HA	2.21	0.40
1:L:367:PHE:HA	1:L:368:PRO:HD3	1.95	0.40
1:M:298:TRP:HE1	1:M:727:ILE:HG22	1.86	0.40
1:O:444:LEU:HD23	1:O:444:LEU:HA	1.90	0.40
1:P:676:THR:HG22	1:P:677:GLY:N	2.34	0.40
1:P:698:GLU:HG2	1:P:732:LEU:HD23	2.02	0.40
1:X:242:THR:HG22	1:X:682:GLU:CG	2.50	0.40
1:Y:298:TRP:HE1	1:Y:727:ILE:HG22	1.86	0.40
1:Z:529:GLU:OE1	1:Z:529:GLU:N	2.54	0.40
1:1:480:PRO:HB3	1:8:511:LEU:HD12	2.03	0.40
1:5:529:GLU:OE1	1:5:529:GLU:N	2.54	0.40
1:a:287:ASN:O	1:a:617:PRO:HA	2.21	0.40
1:a:384:ASP:OD2	1:e:707:LYS:NZ	2.35	0.40
1:b:676:THR:HG22	1:b:677:GLY:N	2.34	0.40
1:j:242:THR:HG22	1:j:682:GLU:CG	2.50	0.40
1:j:529:GLU:OE1	1:j:529:GLU:N	2.54	0.40
1:k:425:SER:O	1:k:730:ARG:HA	2.21	0.40
1:m:287:ASN:O	1:m:617:PRO:HA	2.21	0.40
1:o:529:GLU:OE1	1:o:529:GLU:N	2.54	0.40
1:p:298:TRP:HE1	1:p:727:ILE:HG22	1.86	0.40
1:r:231:ASP:N	1:r:242:THR:OG1	2.45	0.40
1:t:231:ASP:N	1:t:242:THR:OG1	2.46	0.40
1:v:242:THR:HG22	1:v:682:GLU:CG	2.51	0.40
1:v:702:THR:HG22	1:x:700:GLN:H	1.86	0.40
1:y:309:ARG:O	1:y:686:GLU:N	2.46	0.40
1:7:242:THR:HG22	1:7:682:GLU:CG	2.50	0.40
1:8:242:THR:HG22	1:8:682:GLU:CG	2.50	0.40
1:8:425:SER:O	1:8:730:ARG:HA	2.21	0.40
1:B:425:SER:O	1:B:730:ARG:HA	2.21	0.40
1:C:698:GLU:HG2	1:C:732:LEU:HD23	2.02	0.40
1:D:451:ILE:HG12	1:D:453:GLY:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:287:ASN:O	1:F:617:PRO:HA	2.21	0.40
1:I:451:ILE:HG12	1:I:453:GLY:H	1.87	0.40
1:K:434:ARG:NH2	1:1:514:ARG:HD2	2.36	0.40
1:M:309:ARG:NH2	1:M:686:GLU:OE1	2.31	0.40
1:N:529:GLU:OE1	1:N:529:GLU:N	2.54	0.40
1:U:425:SER:O	1:U:730:ARG:HA	2.21	0.40
1:U:529:GLU:OE1	1:U:529:GLU:N	2.54	0.40
1:V:529:GLU:OE1	1:V:529:GLU:N	2.54	0.40
1:Y:355:VAL:O	1:Y:355:VAL:HG12	2.20	0.40
1:Z:242:THR:HG22	1:Z:682:GLU:CG	2.50	0.40
1:Z:425:SER:O	1:Z:730:ARG:HA	2.21	0.40
1:a:231:ASP:N	1:a:242:THR:OG1	2.46	0.40
1:a:451:ILE:HG12	1:a:453:GLY:H	1.87	0.40
1:a:529:GLU:OE1	1:a:529:GLU:N	2.54	0.40
1:b:702:THR:HG22	1:e:700:GLN:H	1.86	0.40
1:g:242:THR:HG22	1:g:682:GLU:CG	2.50	0.40
1:i:444:LEU:HD23	1:i:444:LEU:HA	1.90	0.40
1:i:529:GLU:OE1	1:i:529:GLU:N	2.54	0.40
1:k:242:THR:HG22	1:k:682:GLU:CG	2.50	0.40
1:m:298:TRP:HE1	1:m:727:ILE:HG22	1.86	0.40
1:m:425:SER:O	1:m:730:ARG:HA	2.21	0.40
1:n:287:ASN:O	1:n:617:PRO:HA	2.21	0.40
1:n:529:GLU:OE1	1:n:529:GLU:N	2.54	0.40
1:o:702:THR:HG22	1:u:700:GLN:H	1.86	0.40
1:p:425:SER:O	1:p:730:ARG:HA	2.21	0.40
1:q:529:GLU:OE1	1:q:529:GLU:N	2.54	0.40
1:s:451:ILE:HG12	1:s:453:GLY:H	1.87	0.40
1:s:529:GLU:OE1	1:s:529:GLU:N	2.54	0.40
1:v:398:GLU:OE1	1:v:650:LYS:NZ	2.44	0.40
1:v:425:SER:O	1:v:730:ARG:HA	2.21	0.40
1:w:529:GLU:OE1	1:w:529:GLU:N	2.54	0.40
1:y:355:VAL:O	1:y:355:VAL:HG12	2.20	0.40
1:y:514:ARG:HD2	1:7:434:ARG:NH2	2.35	0.40
1:8:545:LYS:O	1:8:548:THR:OG1	2.34	0.40
1:A:702:THR:HG22	1:F:700:GLN:H	1.86	0.40
1:B:355:VAL:O	1:B:355:VAL:HG12	2.20	0.40
1:B:451:ILE:HG12	1:B:453:GLY:H	1.87	0.40
1:E:702:THR:HG22	1:P:700:GLN:H	1.86	0.40
1:F:398:GLU:OE1	1:F:650:LYS:NZ	2.44	0.40
1:G:231:ASP:OD1	1:G:242:THR:OG1	2.33	0.40
1:H:242:THR:HG22	1:H:682:GLU:CG	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:398:GLU:OE1	1:H:650:LYS:NZ	2.44	0.40
1:I:225:SER:HB2	1:I:319:ASN:H	1.85	0.40
1:I:529:GLU:OE1	1:I:529:GLU:N	2.54	0.40
1:J:287:ASN:O	1:J:617:PRO:HA	2.21	0.40
1:K:309:ARG:O	1:K:686:GLU:N	2.46	0.40
1:M:289:PHE:CE2	1:M:612:VAL:HG13	2.57	0.40
1:N:231:ASP:OD1	1:N:242:THR:OG1	2.33	0.40
1:P:425:SER:O	1:P:730:ARG:HA	2.21	0.40
1:Q:292:HIS:HE1	1:Q:681:VAL:HG11	1.87	0.40
1:R:298:TRP:HE1	1:R:727:ILE:HG22	1.86	0.40
1:U:309:ARG:HH21	1:U:686:GLU:CD	2.23	0.40
1:W:292:HIS:HE1	1:W:681:VAL:HG11	1.87	0.40
1:X:451:ILE:HG12	1:X:453:GLY:H	1.87	0.40
1:2:425:SER:O	1:2:730:ARG:HA	2.21	0.40
1:3:298:TRP:HE1	1:3:727:ILE:HG22	1.86	0.40
1:3:355:VAL:CG1	1:j:437:ASN:HB2	2.43	0.40
1:5:575:GLU:OE1	1:a:584:HIS:NE2	2.42	0.40
1:b:700:GLN:H	1:e:702:THR:HG22	1.86	0.40
1:d:529:GLU:OE1	1:d:529:GLU:N	2.54	0.40
1:d:702:THR:HG22	1:q:700:GLN:H	1.86	0.40
1:f:287:ASN:O	1:f:617:PRO:HA	2.21	0.40
1:h:529:GLU:OE1	1:h:529:GLU:N	2.54	0.40
1:i:231:ASP:N	1:i:242:THR:OG1	2.45	0.40
1:j:425:SER:O	1:j:730:ARG:HA	2.21	0.40
1:k:299:GLN:NE2	1:k:701:TYR:O	2.51	0.40
1:l:292:HIS:HE1	1:l:681:VAL:HG11	1.87	0.40
1:l:298:TRP:HE1	1:l:727:ILE:HG22	1.86	0.40
1:p:355:VAL:O	1:p:355:VAL:HG12	2.20	0.40
1:p:451:ILE:HG12	1:p:453:GLY:H	1.87	0.40
1:t:289:PHE:CE2	1:t:612:VAL:HG13	2.57	0.40
1:t:298:TRP:HE1	1:t:727:ILE:HG22	1.86	0.40
1:t:309:ARG:O	1:t:686:GLU:N	2.47	0.40
1:u:698:GLU:HG2	1:u:732:LEU:HD23	2.02	0.40
1:v:287:ASN:O	1:v:617:PRO:HA	2.21	0.40
1:v:292:HIS:HE1	1:v:681:VAL:HG11	1.87	0.40
1:x:298:TRP:HE1	1:x:727:ILE:HG22	1.86	0.40
1:y:292:HIS:HE1	1:y:681:VAL:HG11	1.87	0.40
1:8:451:ILE:HG12	1:8:453:GLY:H	1.87	0.40
1:A:700:GLN:H	1:F:702:THR:HG22	1.86	0.40
1:C:444:LEU:HA	1:C:444:LEU:HD23	1.90	0.40
1:E:451:ILE:HG12	1:E:453:GLY:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:700:GLN:H	1:P:702:THR:HG22	1.86	0.40
1:F:529:GLU:OE1	1:F:529:GLU:N	2.54	0.40
1:G:292:HIS:HE1	1:G:681:VAL:HG11	1.87	0.40
1:I:698:GLU:HG2	1:I:732:LEU:HD23	2.02	0.40
1:K:292:HIS:HE1	1:K:681:VAL:HG11	1.87	0.40
1:L:231:ASP:OD1	1:L:242:THR:OG1	2.33	0.40
1:L:298:TRP:HE1	1:L:727:ILE:HG22	1.86	0.40
1:M:299:GLN:NE2	1:M:701:TYR:O	2.51	0.40
1:N:350:TYR:OH	1:N:643:PRO:O	2.32	0.40
1:P:309:ARG:HH21	1:P:686:GLU:CD	2.23	0.40
1:P:529:GLU:OE1	1:P:529:GLU:N	2.54	0.40
1:Q:298:TRP:HE1	1:Q:727:ILE:HG22	1.86	0.40
1:Q:529:GLU:OE1	1:Q:529:GLU:N	2.54	0.40
1:Q:702:THR:HG22	1:R:700:GLN:H	1.86	0.40
1:R:287:ASN:O	1:R:617:PRO:HA	2.21	0.40
1:S:287:ASN:O	1:S:617:PRO:HA	2.21	0.40
1:S:398:GLU:OE1	1:S:650:LYS:NZ	2.44	0.40
1:T:225:SER:HB2	1:T:319:ASN:H	1.85	0.40
1:T:425:SER:O	1:T:730:ARG:HA	2.21	0.40
1:V:355:VAL:CG1	1:X:437:ASN:HB2	2.43	0.40
1:W:298:TRP:HE1	1:W:727:ILE:HG22	1.86	0.40
1:2:287:ASN:O	1:2:617:PRO:HA	2.21	0.40
1:2:289:PHE:CE2	1:2:612:VAL:HG13	2.57	0.40
1:2:292:HIS:HE1	1:2:681:VAL:HG11	1.87	0.40
1:5:231:ASP:OD1	1:5:242:THR:OG1	2.33	0.40
1:a:708:SER:OG	1:a:710:ASN:O	2.37	0.40
1:b:292:HIS:HE1	1:b:681:VAL:HG11	1.87	0.40
1:b:425:SER:O	1:b:730:ARG:HA	2.21	0.40
1:b:529:GLU:OE1	1:b:529:GLU:N	2.54	0.40
1:c:292:HIS:HE1	1:c:681:VAL:HG11	1.87	0.40
1:c:298:TRP:HE1	1:c:727:ILE:HG22	1.86	0.40
1:c:529:GLU:OE1	1:c:529:GLU:N	2.54	0.40
1:c:702:THR:HG22	1:f:700:GLN:H	1.86	0.40
1:d:287:ASN:O	1:d:617:PRO:HA	2.21	0.40
1:e:309:ARG:NH2	1:e:686:GLU:OE1	2.31	0.40
1:f:298:TRP:HE1	1:f:727:ILE:HG22	1.86	0.40
1:g:451:ILE:HG12	1:g:453:GLY:H	1.87	0.40
1:h:444:LEU:HD23	1:h:444:LEU:HA	1.90	0.40
1:j:702:THR:HG22	1:m:700:GLN:H	1.86	0.40
1:l:350:TYR:OH	1:l:643:PRO:O	2.32	0.40
1:m:309:ARG:HH21	1:m:686:GLU:CD	2.23	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:287:ASN:O	1:r:617:PRO:HA	2.21	0.40
1:s:298:TRP:HE1	1:s:727:ILE:HG22	1.86	0.40
1:u:529:GLU:OE1	1:u:529:GLU:N	2.54	0.40
1:v:289:PHE:CE2	1:v:612:VAL:HG13	2.57	0.40
1:v:451:ILE:HG12	1:v:453:GLY:H	1.87	0.40
1:x:242:THR:HG22	1:x:682:GLU:CG	2.50	0.40
1:x:545:LYS:O	1:x:548:THR:OG1	2.34	0.40
1:y:309:ARG:NH2	1:y:686:GLU:OE1	2.31	0.40
1:y:545:LYS:O	1:y:548:THR:OG1	2.34	0.40
1:7:398:GLU:OE1	1:7:650:LYS:NZ	2.44	0.40
1:7:425:SER:O	1:7:730:ARG:HA	2.21	0.40
1:7:451:ILE:HG12	1:7:453:GLY:H	1.87	0.40
1:7:545:LYS:O	1:7:548:THR:OG1	2.34	0.40
1:8:231:ASP:N	1:8:242:THR:OG1	2.45	0.40
1:B:529:GLU:OE1	1:B:529:GLU:N	2.54	0.40
1:C:529:GLU:OE1	1:C:529:GLU:N	2.54	0.40
1:D:360:HIS:HA	1:P:442:GLN:HA	2.02	0.40
1:D:406:ARG:HB2	1:E:222:GLY:O	2.22	0.40
1:D:708:SER:OG	1:D:710:ASN:O	2.37	0.40
1:E:292:HIS:HE1	1:E:681:VAL:HG11	1.87	0.40
1:I:298:TRP:HE1	1:I:727:ILE:HG22	1.86	0.40
1:K:289:PHE:CE2	1:K:612:VAL:HG13	2.57	0.40
1:M:529:GLU:OE1	1:M:529:GLU:N	2.54	0.40
1:N:698:GLU:HG2	1:N:732:LEU:HD23	2.02	0.40
1:P:292:HIS:HE1	1:P:681:VAL:HG11	1.87	0.40
1:Q:289:PHE:CE2	1:Q:612:VAL:HG13	2.57	0.40
1:Q:451:ILE:HG12	1:Q:453:GLY:H	1.87	0.40
1:R:289:PHE:CE2	1:R:612:VAL:HG13	2.57	0.40
1:S:225:SER:HB2	1:S:319:ASN:H	1.85	0.40
1:T:529:GLU:OE1	1:T:529:GLU:N	2.54	0.40
1:U:451:ILE:HG12	1:U:453:GLY:H	1.86	0.40
1:U:702:THR:HG22	1:V:700:GLN:H	1.85	0.40
1:V:451:ILE:HG12	1:V:453:GLY:H	1.87	0.40
1:Y:700:GLN:H	1:Z:702:THR:HG22	1.86	0.40
1:3:242:THR:HG22	1:3:682:GLU:CG	2.50	0.40
1:5:451:ILE:HG12	1:5:453:GLY:H	1.87	0.40
1:5:698:GLU:HG2	1:5:732:LEU:HD23	2.02	0.40
1:b:451:ILE:HG12	1:b:453:GLY:H	1.87	0.40
1:d:425:SER:O	1:d:730:ARG:HA	2.21	0.40
1:d:444:LEU:HD23	1:d:444:LEU:HA	1.90	0.40
1:e:451:ILE:HG12	1:e:453:GLY:H	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:289:PHE:CE2	1:f:612:VAL:HG13	2.57	0.40
1:i:289:PHE:CE2	1:i:612:VAL:HG13	2.57	0.40
1:l:287:ASN:O	1:l:617:PRO:HA	2.21	0.40
1:m:289:PHE:CE2	1:m:612:VAL:HG13	2.57	0.40
1:o:298:TRP:HE1	1:o:727:ILE:HG22	1.86	0.40
1:p:529:GLU:OE1	1:p:529:GLU:N	2.54	0.40
1:r:292:HIS:HE1	1:r:681:VAL:HG11	1.87	0.40
1:s:225:SER:HB2	1:s:319:ASN:H	1.85	0.40
1:s:444:LEU:HA	1:s:444:LEU:HD23	1.90	0.40
1:s:698:GLU:HG2	1:s:732:LEU:HD23	2.02	0.40
1:w:289:PHE:CE2	1:w:612:VAL:HG13	2.57	0.40
1:x:451:ILE:HG12	1:x:453:GLY:H	1.87	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

5.3.2 Protein sidechains [i](#)

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

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	G	1
1	H	1
1	K	1
1	i	1
1	k	1
1	r	1
1	A	1
1	B	1
1	C	1
1	D	1
1	E	1
1	F	1
1	I	1
1	J	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

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Mol	Chain	Number of breaks
1	2	1
1	3	1
1	4	1
1	5	1
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	j	1
1	l	1
1	m	1
1	n	1
1	o	1
1	p	1
1	q	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	G	400:PHE	C	401:PRO	N	1.13
1	H	400:PHE	C	401:PRO	N	1.13
1	K	400:PHE	C	401:PRO	N	1.13
1	i	400:PHE	C	401:PRO	N	1.13
1	k	400:PHE	C	401:PRO	N	1.13
1	r	400:PHE	C	401:PRO	N	1.13
1	A	400:PHE	C	401:PRO	N	1.12
1	B	400:PHE	C	401:PRO	N	1.12
1	C	400:PHE	C	401:PRO	N	1.12
1	D	400:PHE	C	401:PRO	N	1.12

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	E	400:PHE	C	401:PRO	N	1.12
1	F	400:PHE	C	401:PRO	N	1.12
1	I	400:PHE	C	401:PRO	N	1.12
1	J	400:PHE	C	401:PRO	N	1.12
1	L	400:PHE	C	401:PRO	N	1.12
1	M	400:PHE	C	401:PRO	N	1.12
1	N	400:PHE	C	401:PRO	N	1.12
1	O	400:PHE	C	401:PRO	N	1.12
1	P	400:PHE	C	401:PRO	N	1.12
1	Q	400:PHE	C	401:PRO	N	1.12
1	R	400:PHE	C	401:PRO	N	1.12
1	S	400:PHE	C	401:PRO	N	1.12
1	T	400:PHE	C	401:PRO	N	1.12
1	U	400:PHE	C	401:PRO	N	1.12
1	V	400:PHE	C	401:PRO	N	1.12
1	W	400:PHE	C	401:PRO	N	1.12
1	X	400:PHE	C	401:PRO	N	1.12
1	Y	400:PHE	C	401:PRO	N	1.12
1	Z	400:PHE	C	401:PRO	N	1.12
1	1	400:PHE	C	401:PRO	N	1.12
1	2	400:PHE	C	401:PRO	N	1.12
1	3	400:PHE	C	401:PRO	N	1.12
1	4	400:PHE	C	401:PRO	N	1.12
1	5	400:PHE	C	401:PRO	N	1.12
1	a	400:PHE	C	401:PRO	N	1.12
1	b	400:PHE	C	401:PRO	N	1.12
1	c	400:PHE	C	401:PRO	N	1.12
1	d	400:PHE	C	401:PRO	N	1.12
1	e	400:PHE	C	401:PRO	N	1.12
1	f	400:PHE	C	401:PRO	N	1.12
1	g	400:PHE	C	401:PRO	N	1.12
1	h	400:PHE	C	401:PRO	N	1.12
1	j	400:PHE	C	401:PRO	N	1.12
1	l	400:PHE	C	401:PRO	N	1.12
1	m	400:PHE	C	401:PRO	N	1.12
1	n	400:PHE	C	401:PRO	N	1.12
1	o	400:PHE	C	401:PRO	N	1.12
1	p	400:PHE	C	401:PRO	N	1.12
1	q	400:PHE	C	401:PRO	N	1.12
1	s	400:PHE	C	401:PRO	N	1.12
1	t	400:PHE	C	401:PRO	N	1.12
1	u	400:PHE	C	401:PRO	N	1.12

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	v	400:PHE	C	401:PRO	N	1.12
1	w	400:PHE	C	401:PRO	N	1.12
1	x	400:PHE	C	401:PRO	N	1.12
1	y	400:PHE	C	401:PRO	N	1.12
1	z	400:PHE	C	401:PRO	N	1.12
1	7	400:PHE	C	401:PRO	N	1.12
1	8	400:PHE	C	401:PRO	N	1.12

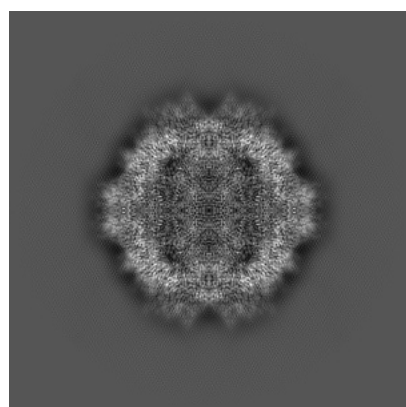
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23999. These allow visual inspection of the internal detail of the map and identification of artifacts.

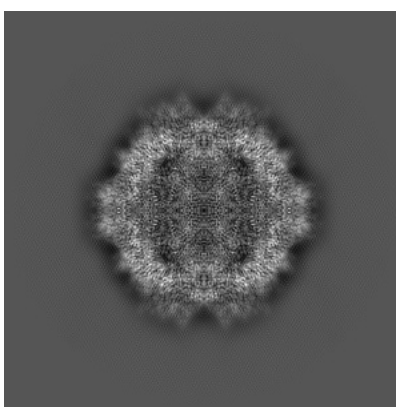
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

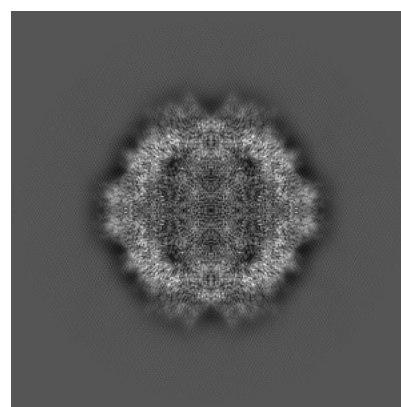
6.1.1 Primary map



X



Y

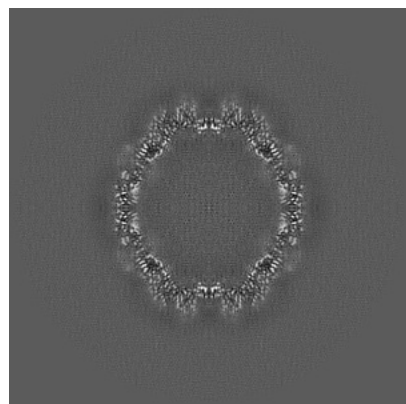


Z

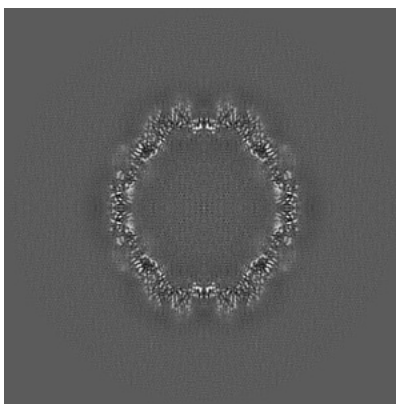
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

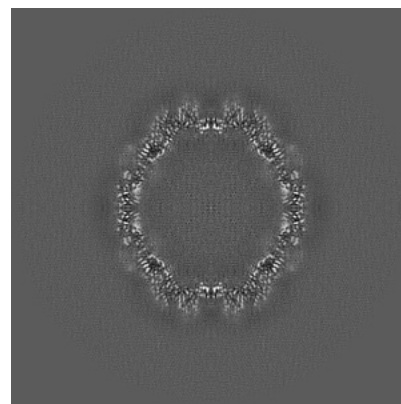
6.2.1 Primary map



X Index: 220



Y Index: 220

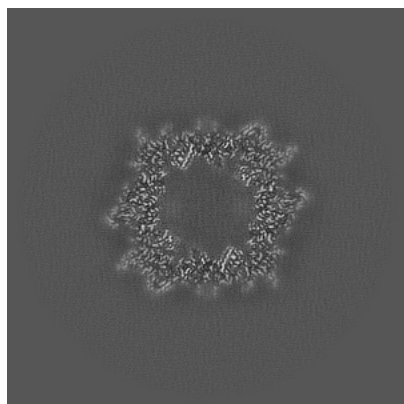


Z Index: 220

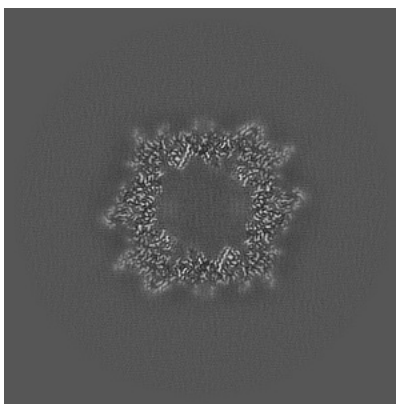
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

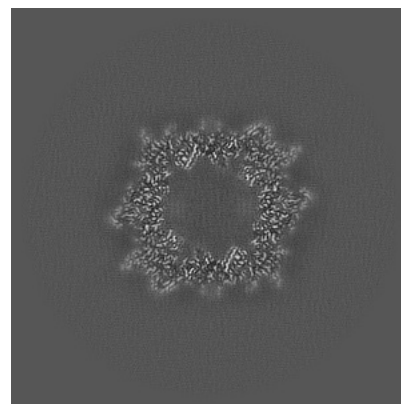
6.3.1 Primary map



X Index: 160



Y Index: 160

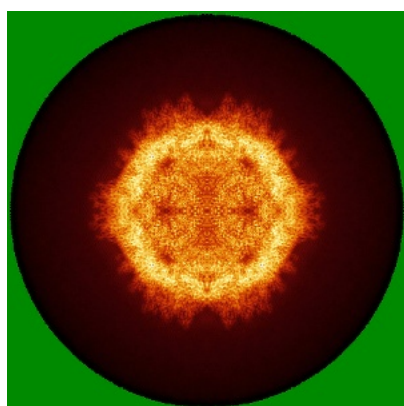


Z Index: 160

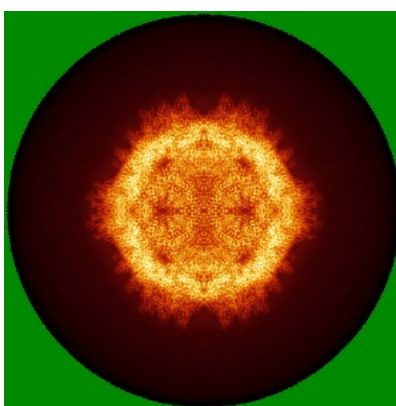
The images above show the largest variance slices of the map in three orthogonal directions.

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

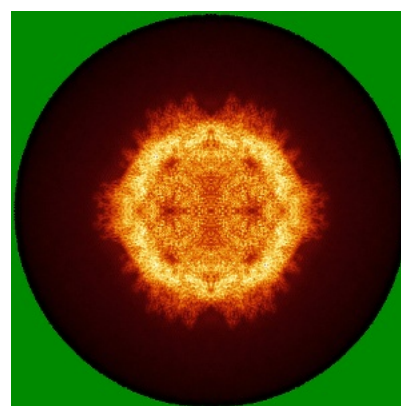
6.4.1 Primary map



X



Y

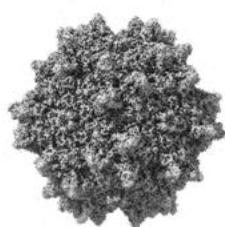


Z

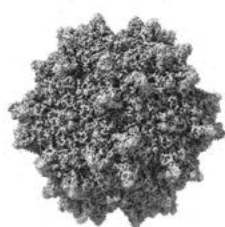
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

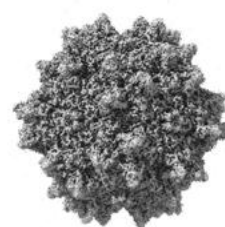
6.5.1 Primary map



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.

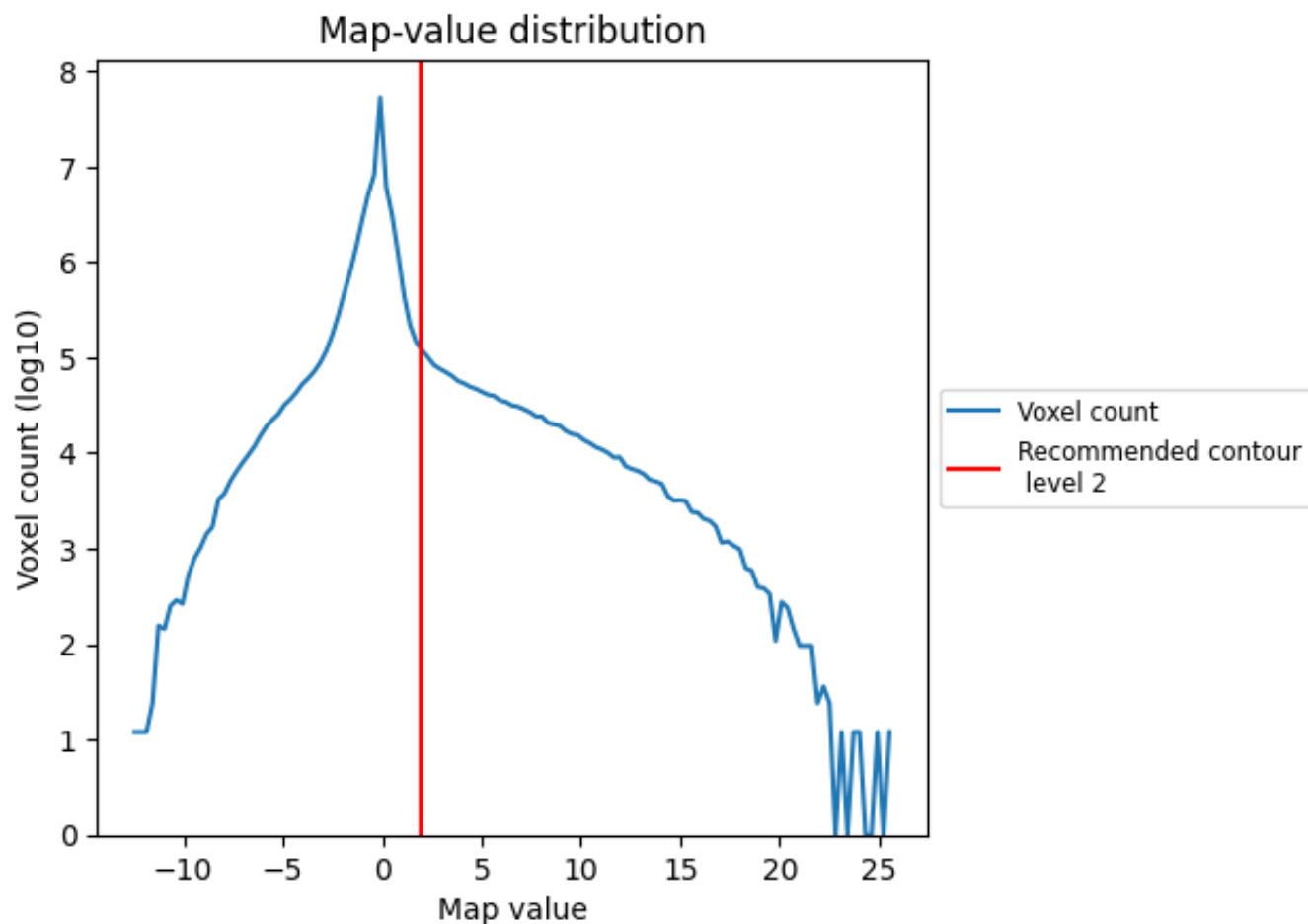
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

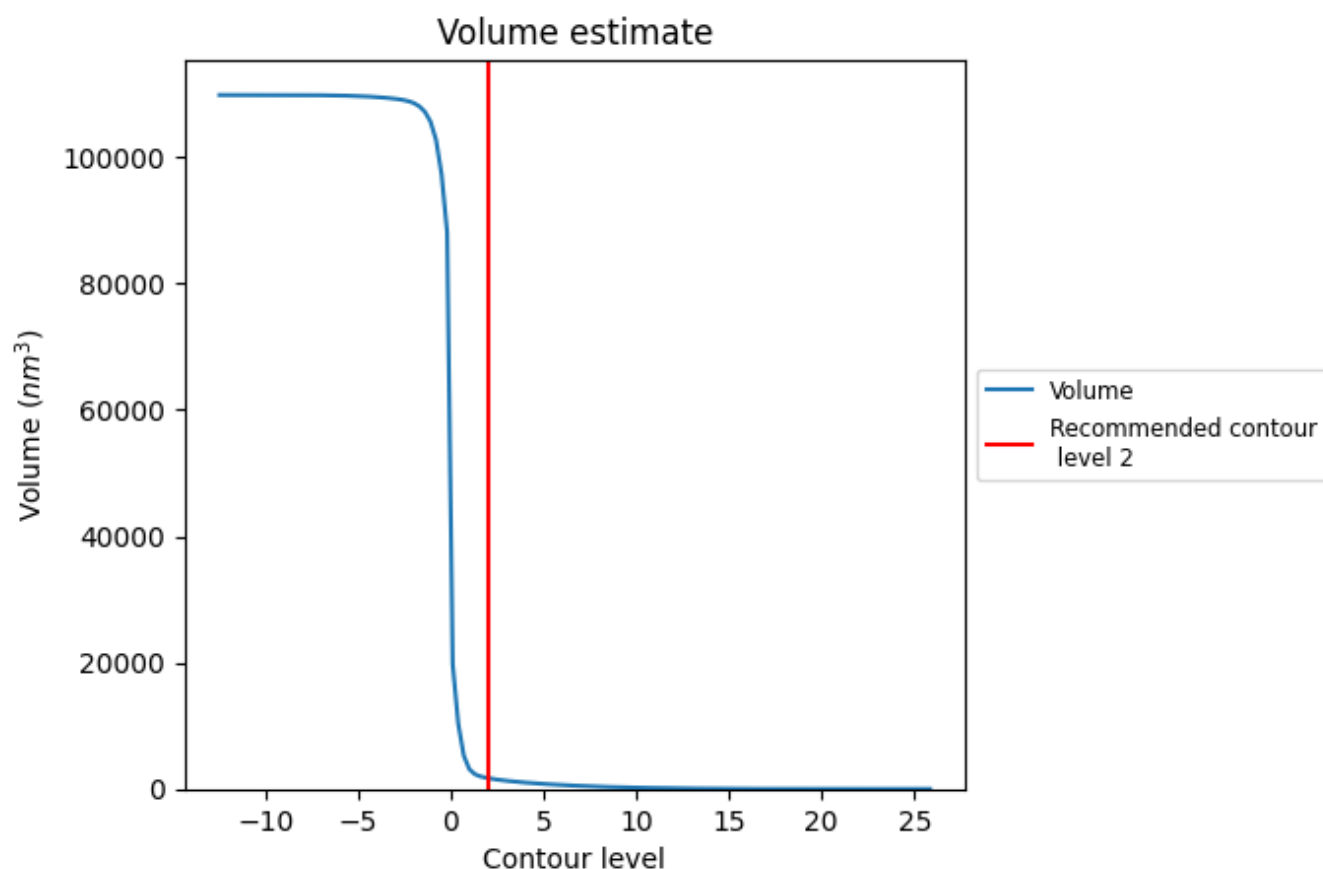
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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

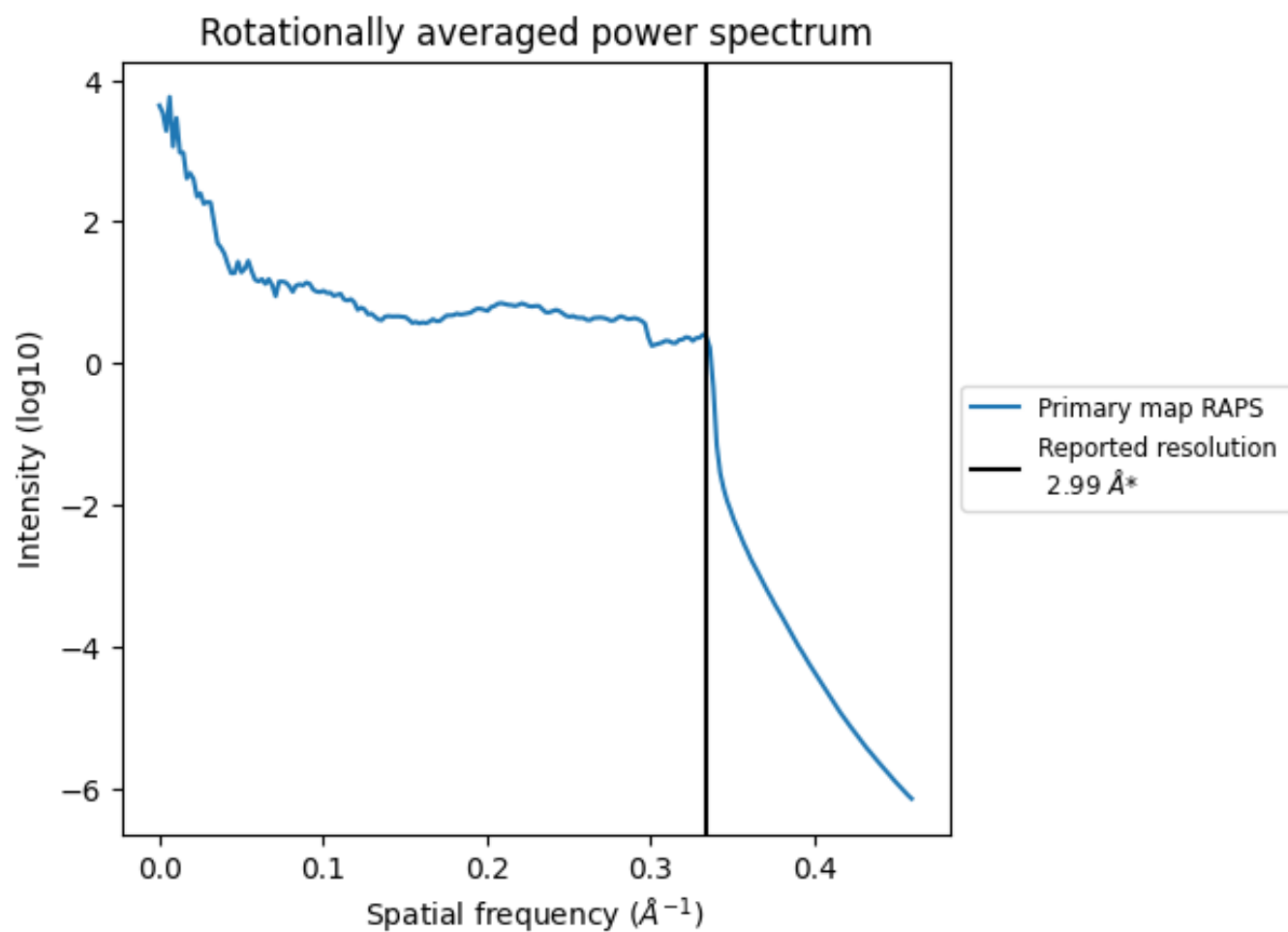
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1724 nm^3 ; this corresponds to an approximate mass of 1558 kDa.

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

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.334 Å⁻¹

8 Fourier-Shell correlation

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

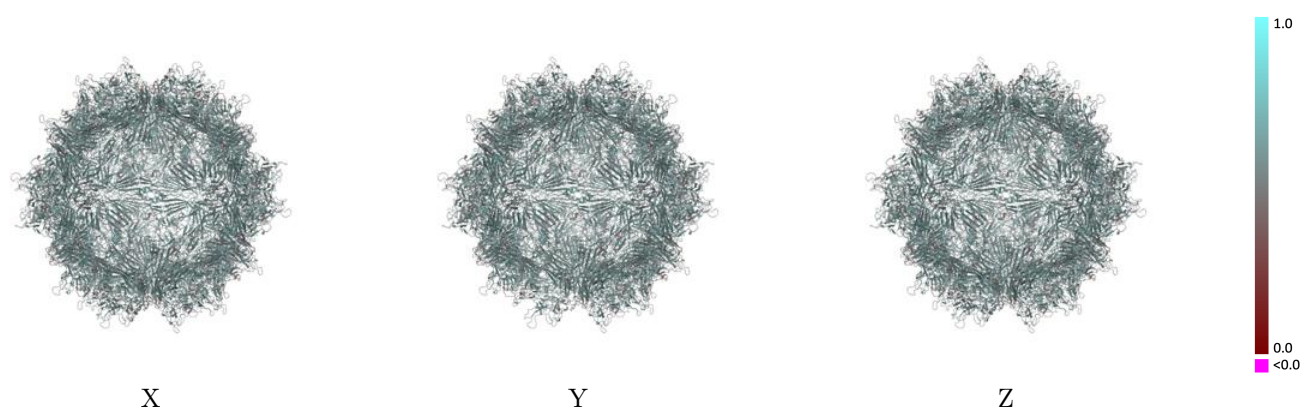
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-23999 and PDB model 7MTW. Per-residue inclusion information can be found in section 3 on page 9.

9.1 Map-model overlay [i](#)

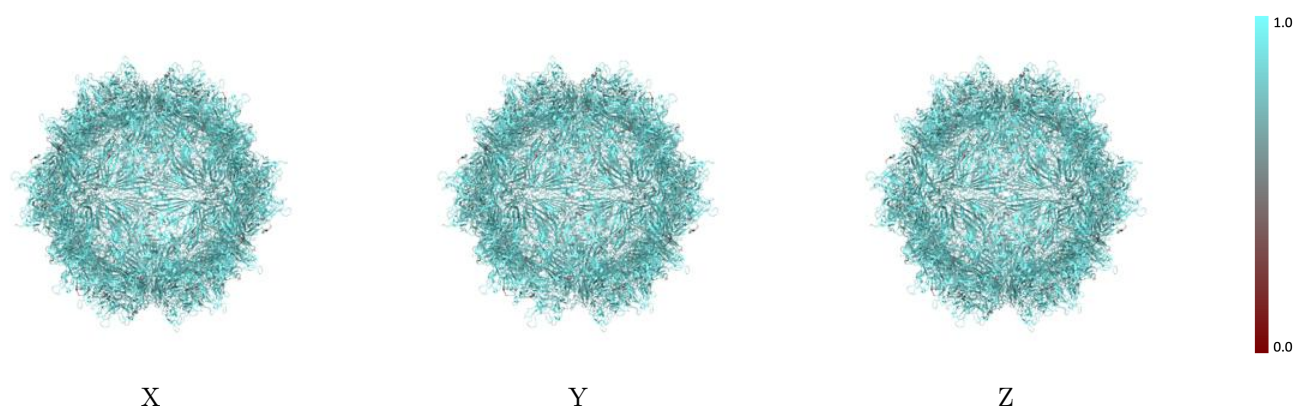
This section was not generated.

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



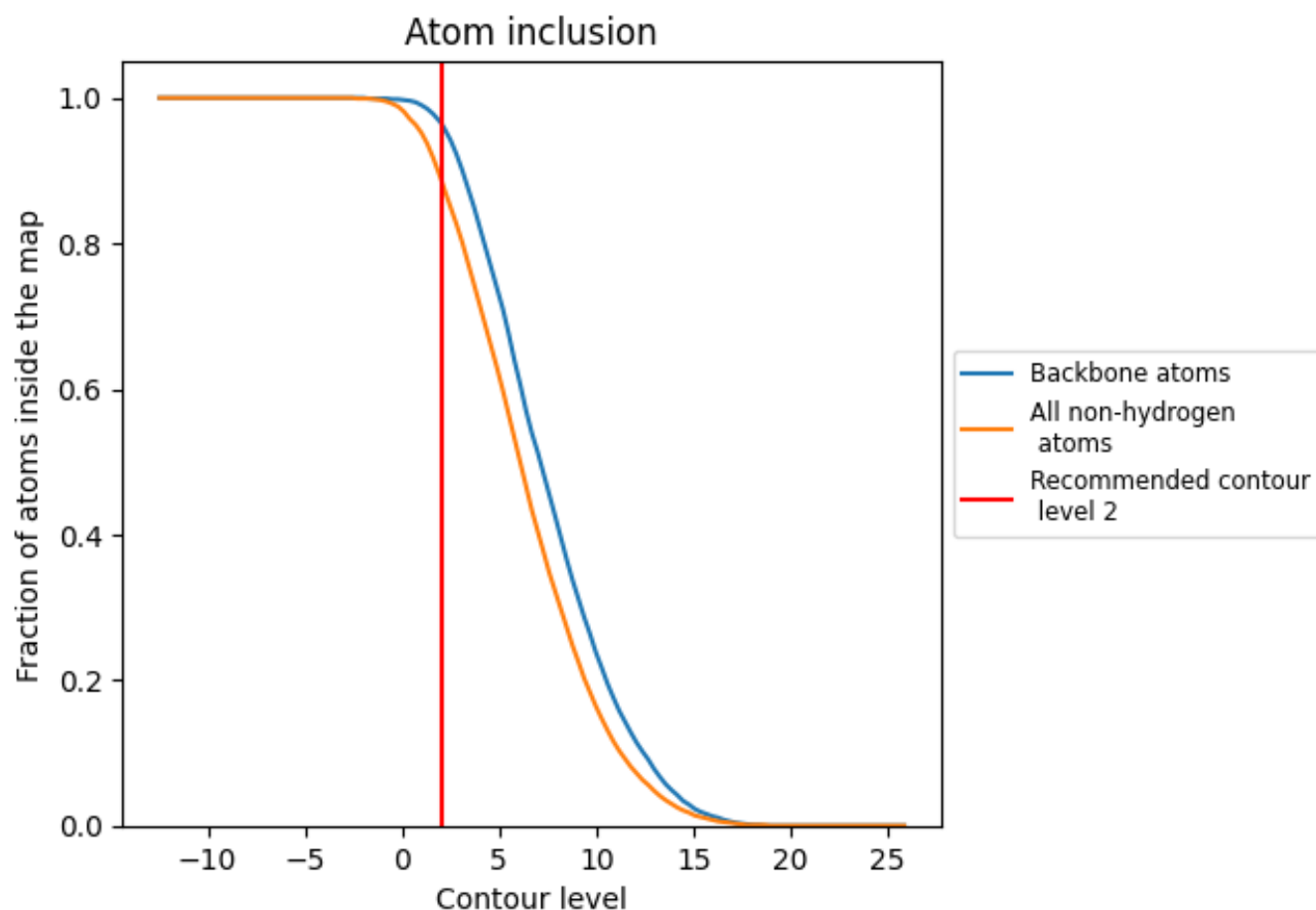
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2).

9.4 Atom inclusion [i](#)



At the recommended contour level, 97% of all backbone atoms, 89% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

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

Chain	Atom inclusion	Q-score
All	 0.8890	 0.5570
1	 0.8880	 0.5570
2	 0.8880	 0.5580
3	 0.8890	 0.5570
4	 0.8910	 0.5590
5	 0.8890	 0.5580
7	 0.8900	 0.5580
8	 0.8880	 0.5570
A	 0.8880	 0.5570
B	 0.8910	 0.5570
C	 0.8890	 0.5580
D	 0.8890	 0.5590
E	 0.8890	 0.5570
F	 0.8890	 0.5570
G	 0.8890	 0.5580
H	 0.8900	 0.5560
I	 0.8890	 0.5570
J	 0.8910	 0.5570
K	 0.8890	 0.5570
L	 0.8910	 0.5570
M	 0.8890	 0.5580
N	 0.8890	 0.5570
O	 0.8910	 0.5570
P	 0.8880	 0.5570
Q	 0.8890	 0.5580
R	 0.8890	 0.5580
S	 0.8890	 0.5590
T	 0.8880	 0.5590
U	 0.8890	 0.5590
V	 0.8910	 0.5590
W	 0.8890	 0.5570
X	 0.8910	 0.5590
Y	 0.8880	 0.5570
Z	 0.8890	 0.5560
a	 0.8890	 0.5590



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Chain	Atom inclusion	Q-score
b	 0.8880	 0.5580
c	 0.8890	 0.5570
d	 0.8890	 0.5560
e	 0.8890	 0.5570
f	 0.8890	 0.5580
g	 0.8910	 0.5570
h	 0.8910	 0.5570
i	 0.8890	 0.5570
j	 0.8890	 0.5550
k	 0.8890	 0.5560
l	 0.8890	 0.5550
m	 0.8880	 0.5560
n	 0.8910	 0.5570
o	 0.8910	 0.5580
p	 0.8910	 0.5570
q	 0.8880	 0.5560
r	 0.8890	 0.5560
s	 0.8890	 0.5560
t	 0.8890	 0.5580
u	 0.8890	 0.5580
v	 0.8880	 0.5580
w	 0.8890	 0.5560
x	 0.8890	 0.5570
y	 0.8890	 0.5570
z	 0.8880	 0.5580