



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 05:42 PM UTC

PDB ID : 7MTG / pdb_00007mtg
EMDB ID : EMD-23986
Title : Structure of the adeno-associated virus 9 capsid at pH 6.0
Authors : Penzes, J.J.; Chipman, P.; Bhattacharya, N.; Zeher, A.; Huang, R.; McKenna, R.; Agbandje-McKenna, M.
Deposited on : 2021-05-13
Resolution : 2.67 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

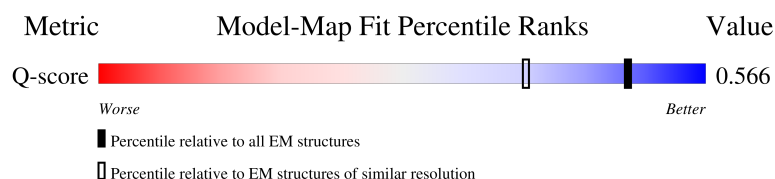
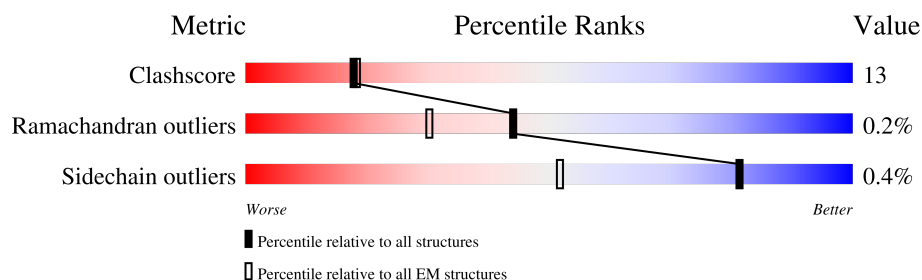
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.67 Å.

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



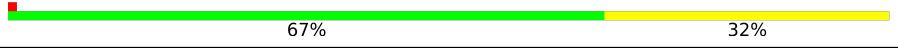
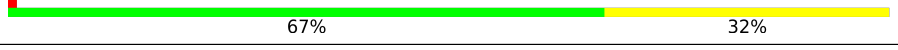
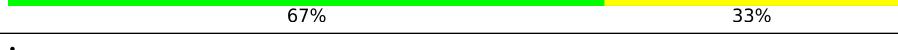
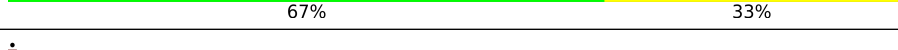
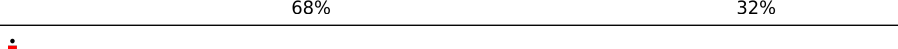
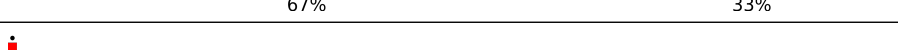
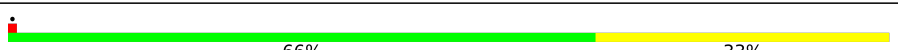
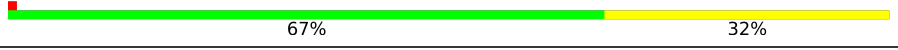
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	9182 (2.17 - 3.17)

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	 67% 33%
1	2	518	 67% 33%
1	3	518	 67% 33%
1	4	518	 66% 33%

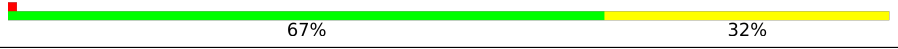
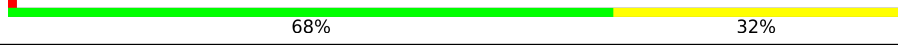
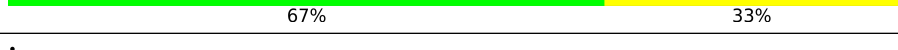
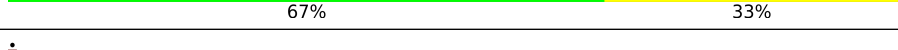
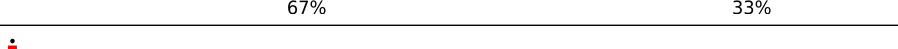
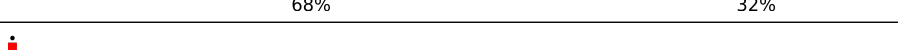
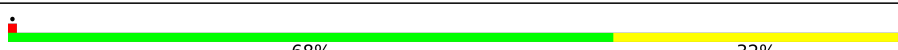
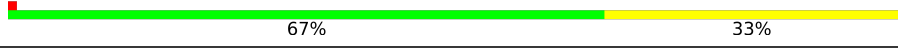
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Mol	Chain	Length	Quality of chain
1	5	518	
1	6	518	
1	7	518	
1	8	518	
1	A	518	
1	B	518	
1	C	518	
1	D	518	
1	E	518	
1	F	518	
1	G	518	
1	H	518	
1	I	518	
1	J	518	
1	K	518	
1	L	518	
1	M	518	
1	N	518	
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1	Q	518	
1	R	518	
1	S	518	
1	T	518	
1	U	518	

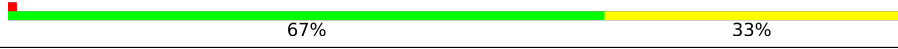
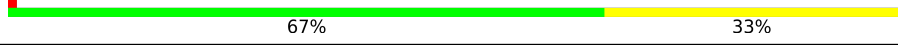
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Mol	Chain	Length	Quality of chain
1	V	518	
1	W	518	
1	X	518	
1	Y	518	
1	Z	518	
1	a	518	
1	b	518	
1	c	518	
1	d	518	
1	e	518	
1	f	518	
1	g	518	
1	h	518	
1	i	518	
1	j	518	
1	k	518	
1	l	518	
1	m	518	
1	n	518	
1	o	518	
1	p	518	
1	q	518	
1	r	518	
1	s	518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

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Mol	Chain	Length	Quality of chain
1	u	518	
1	v	518	
1	w	518	
1	x	518	
1	y	518	
1	z	518	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 247860 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	B	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	C	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	D	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	E	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	F	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	G	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	H	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	I	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	J	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	K	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	L	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	M	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	N	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	O	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	P	518	Total 4131	C 2608	N 718	O 791	S 14	0	0
1	Q	518	Total 4131	C 2608	N 718	O 791	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	518	Total 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	6	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

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Mol	Chain	Residues	Atoms					AltConf	Trace
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
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

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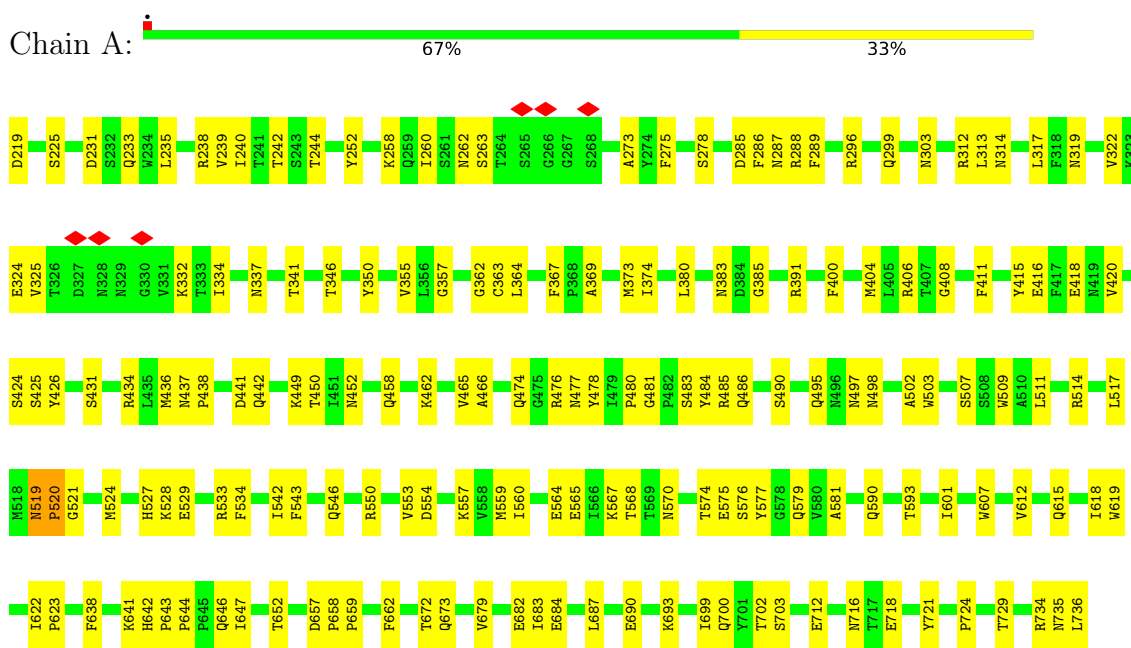
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	518	Total	C	N	O	S	0	0
			4131	2608	718	791	14		

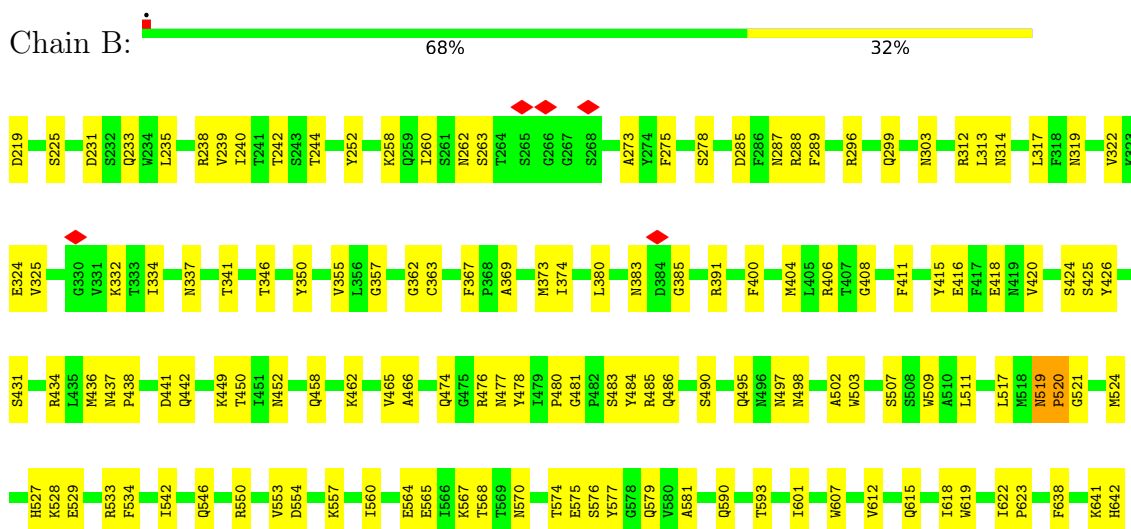
3 Residue-property plots

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

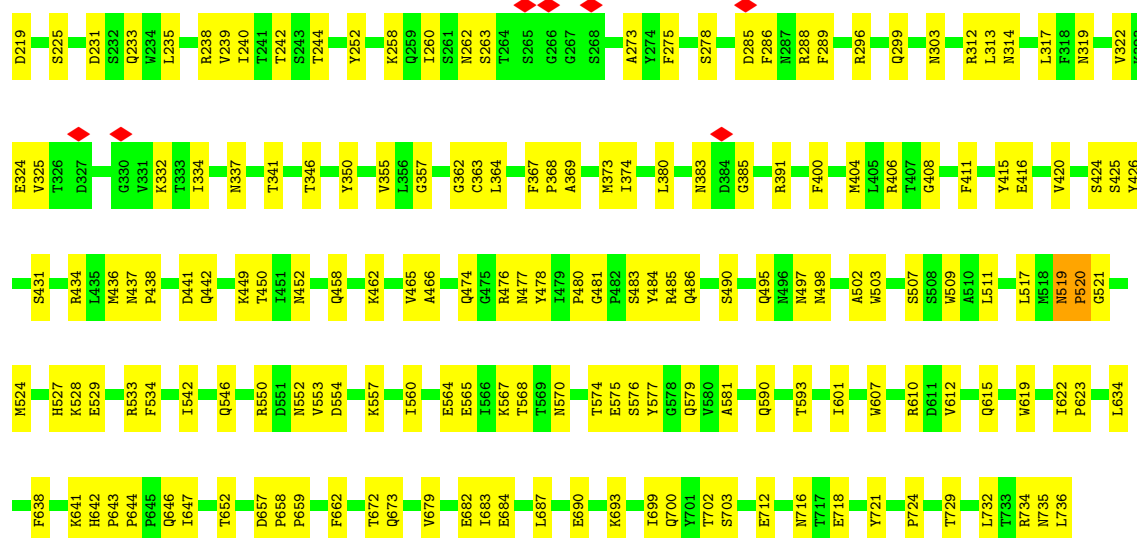


• Molecule 1: Capsid protein VP1

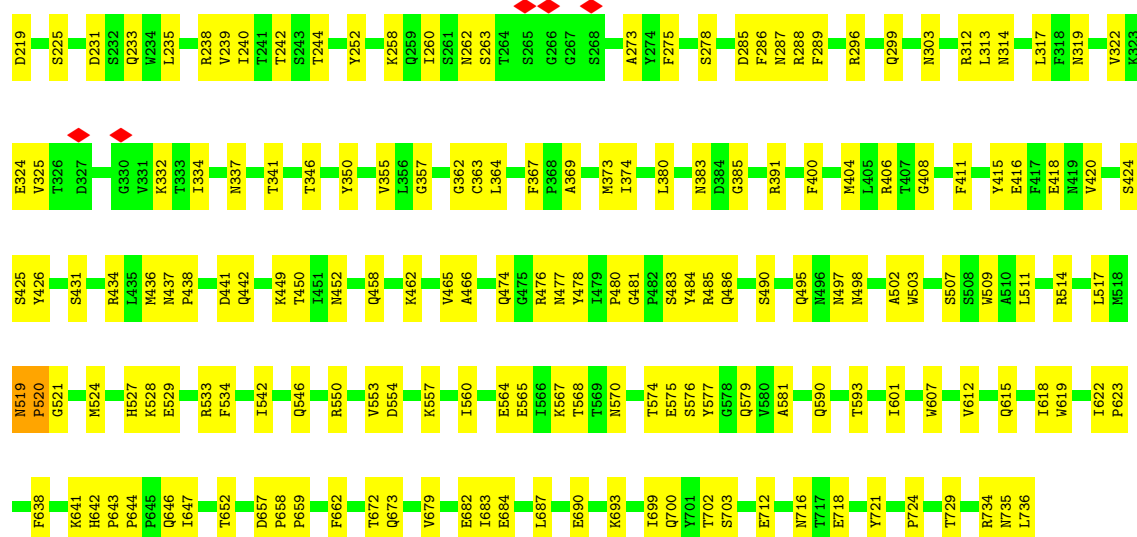




• Molecule 1: Capsid protein VP1

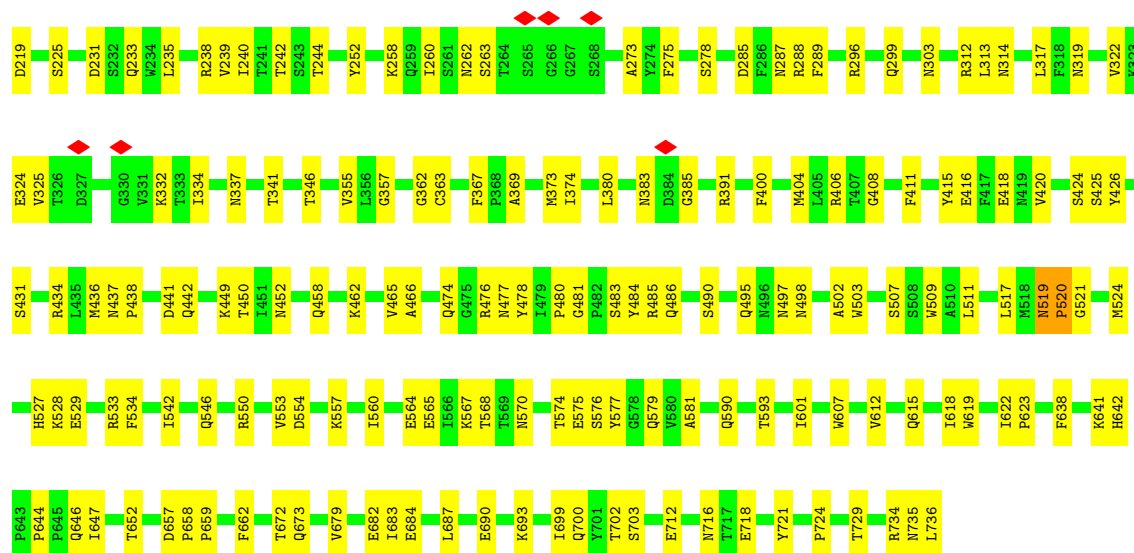


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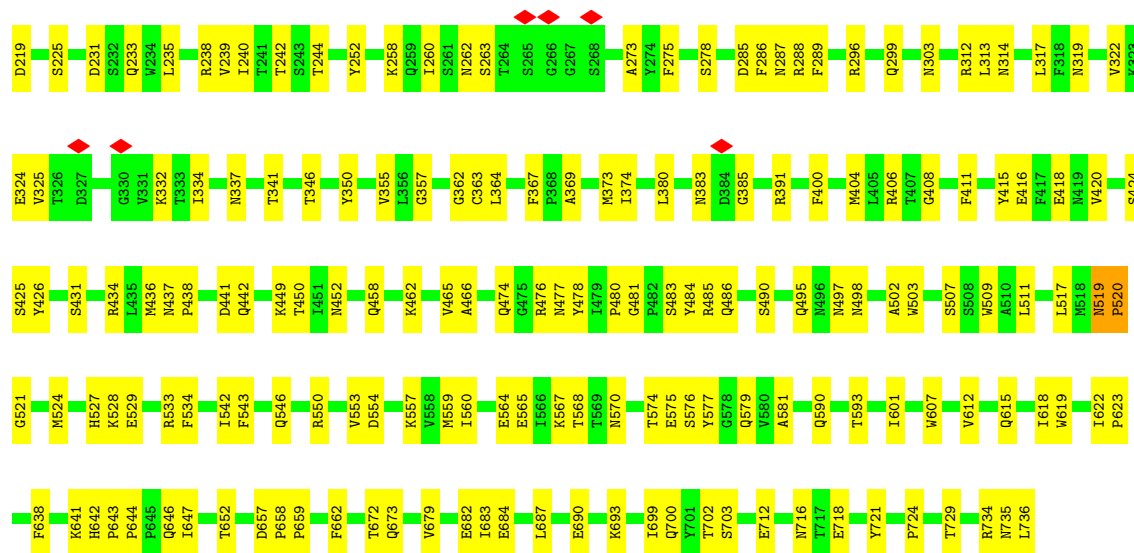


• Molecule 1: Capsid protein VP1

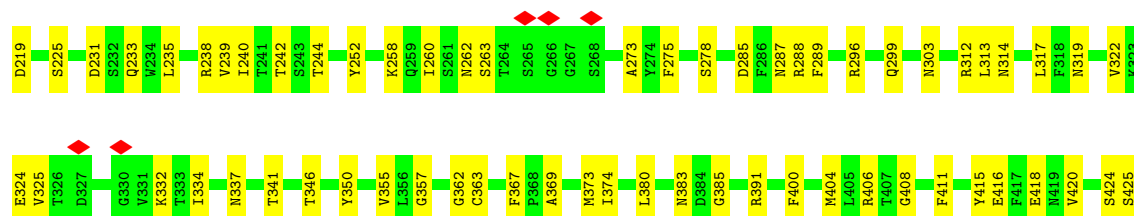


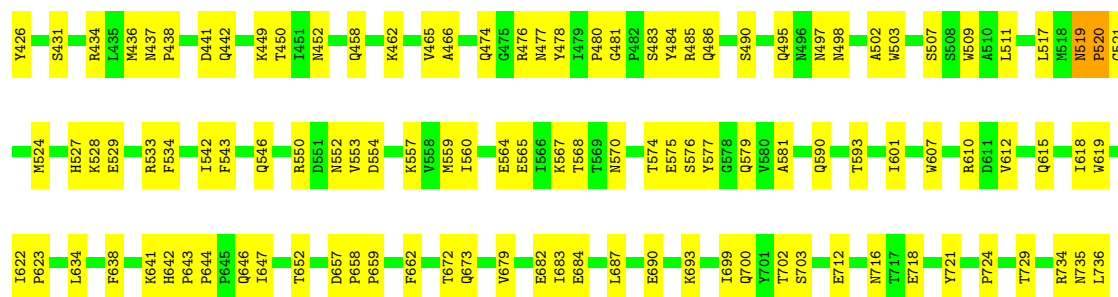


• Molecule 1: Capsid protein VP1

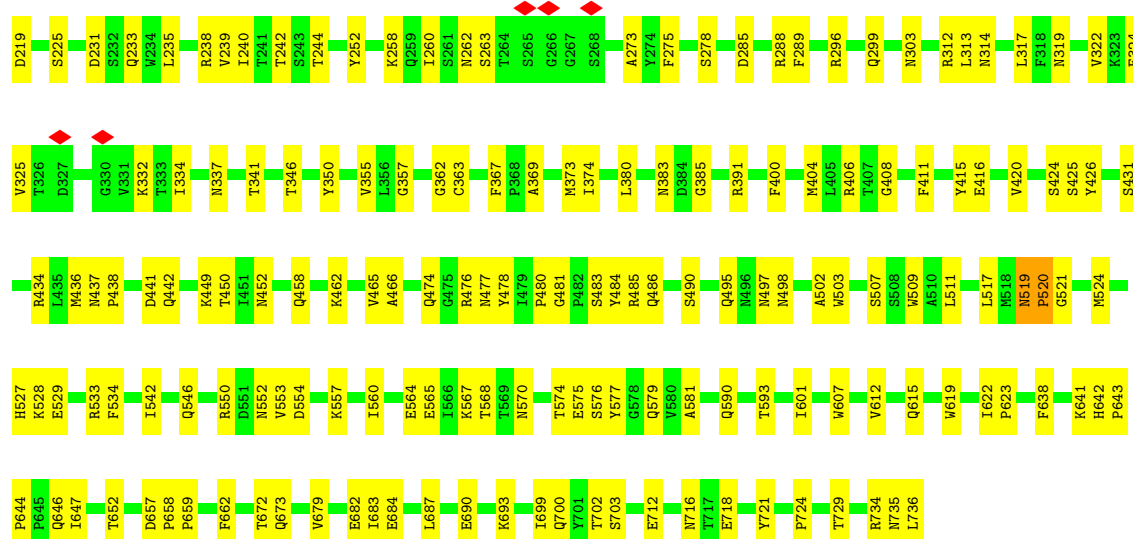


• Molecule 1: Capsid protein VP1

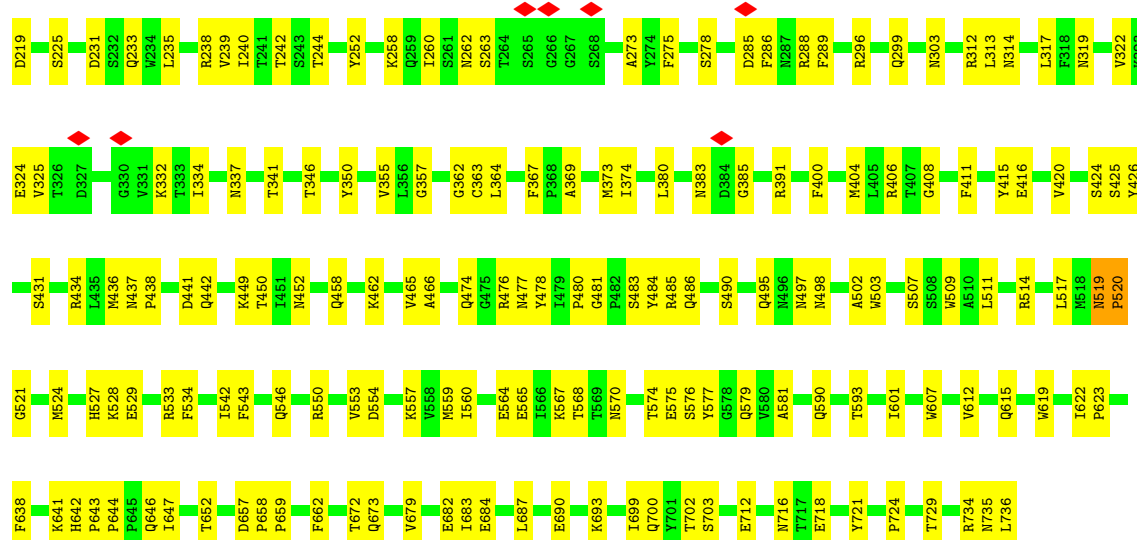




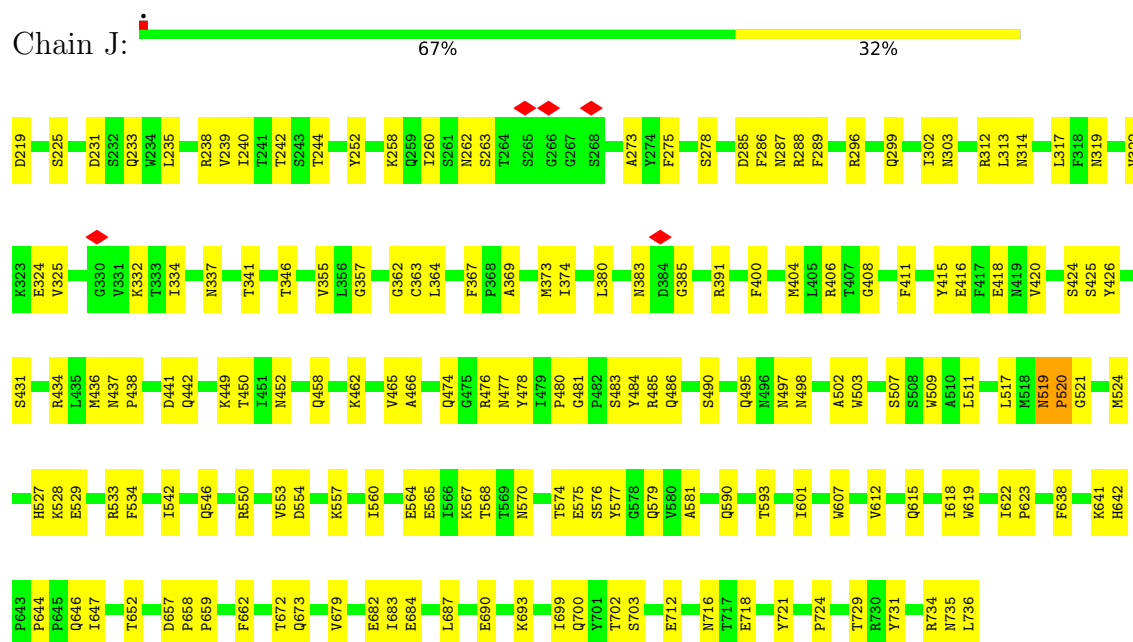
• Molecule 1: Capsid protein VP1



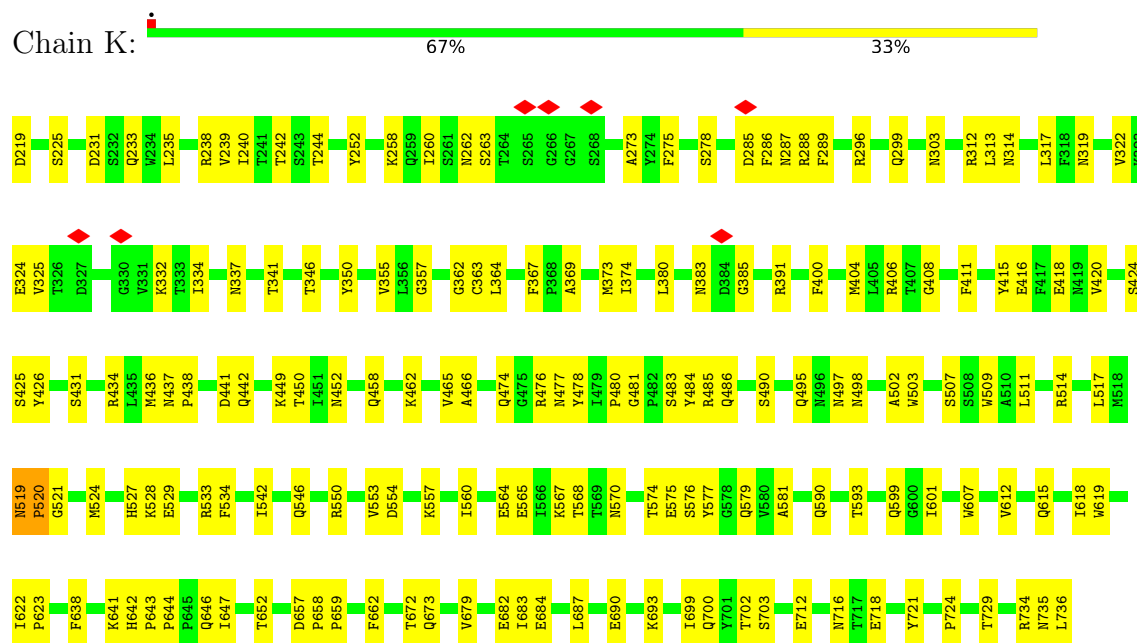
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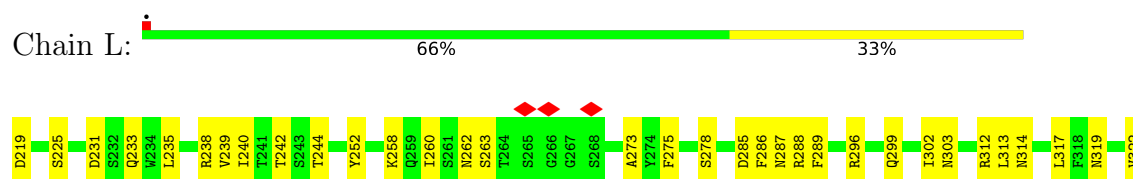
• Molecule 1: Capsid protein VP1

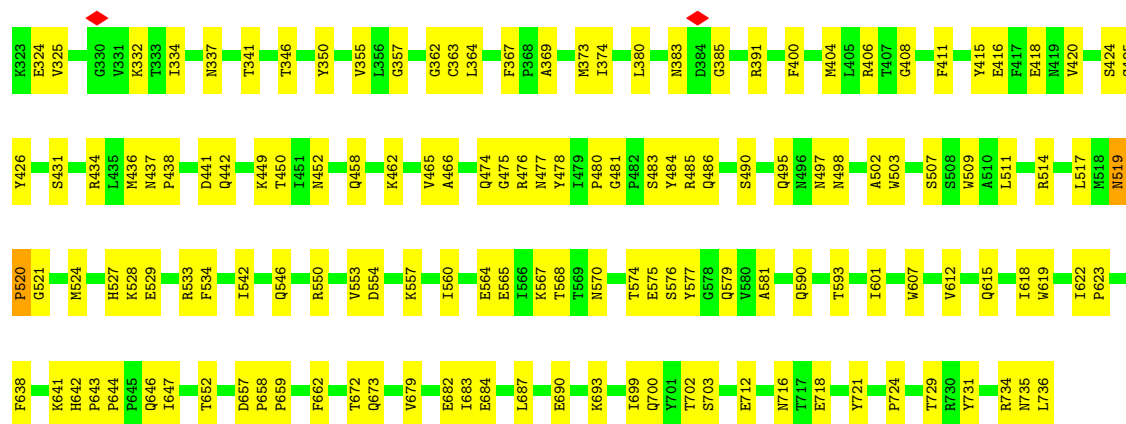


• Molecule 1: Capsid protein VP1

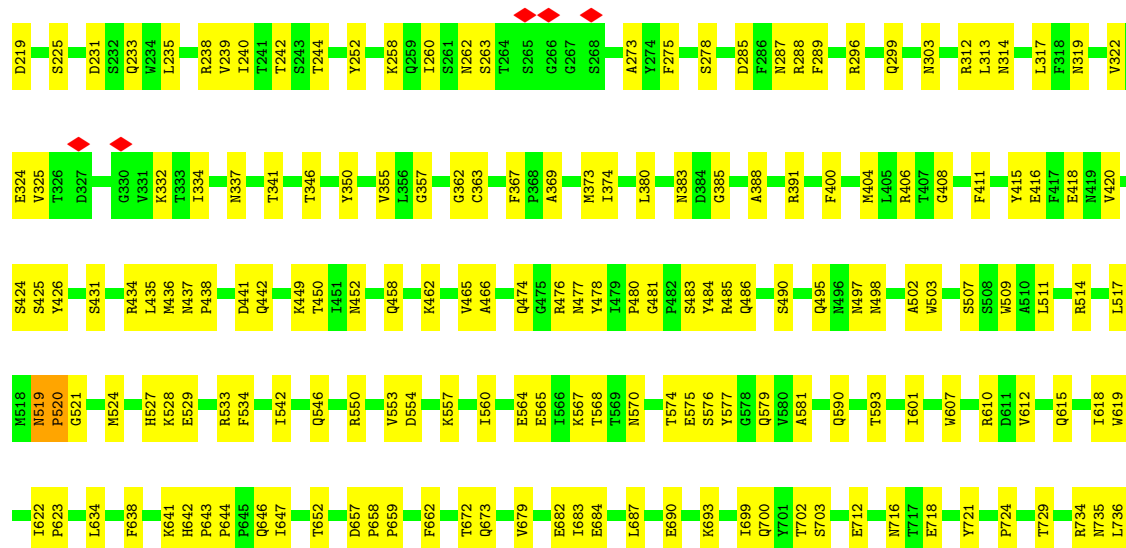


• Molecule 1: Capsid protein VP1

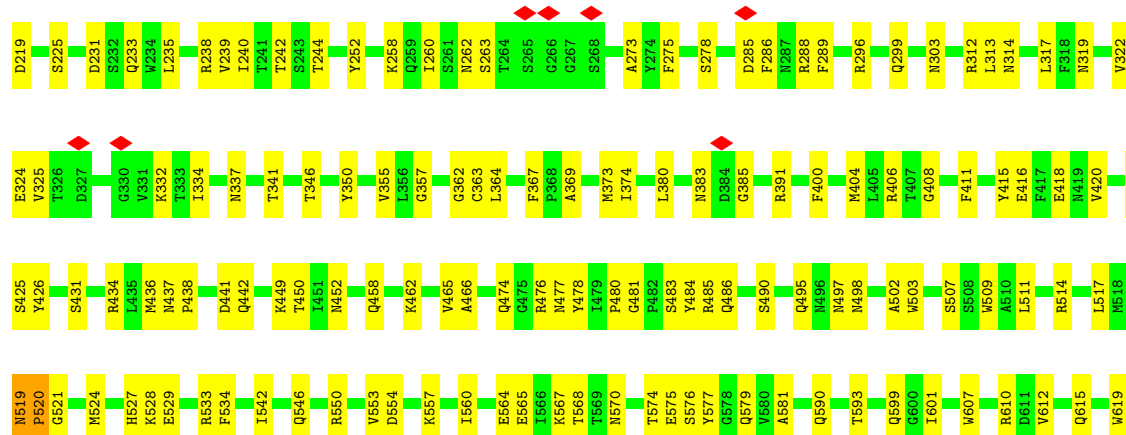




• Molecule 1: Capsid protein VP1

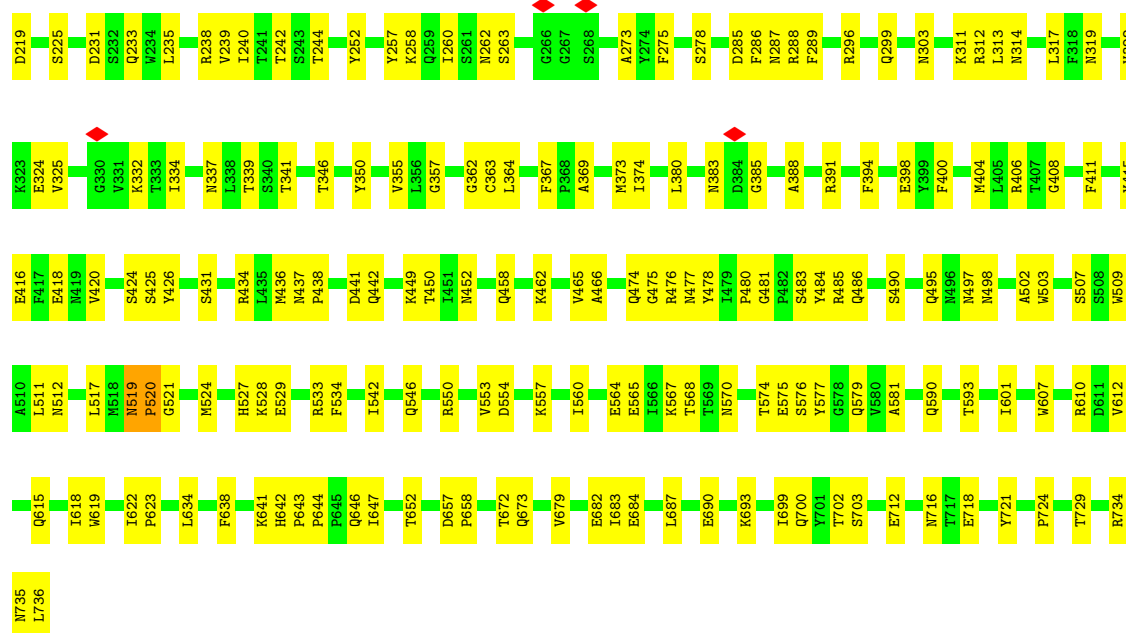


• Molecule 1: Capsid protein VP1

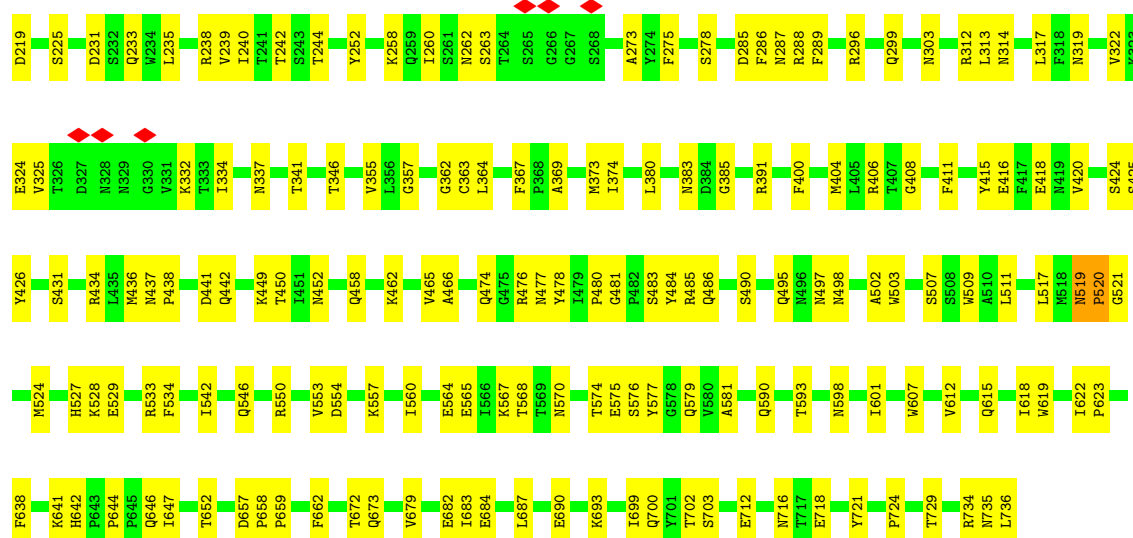




• Molecule 1: Capsid protein VP1

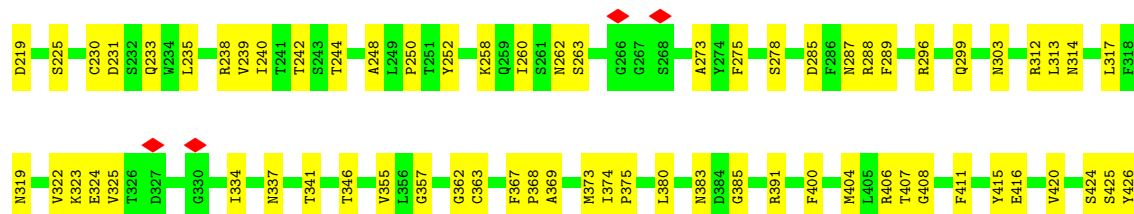


• Molecule 1: Capsid protein VP1

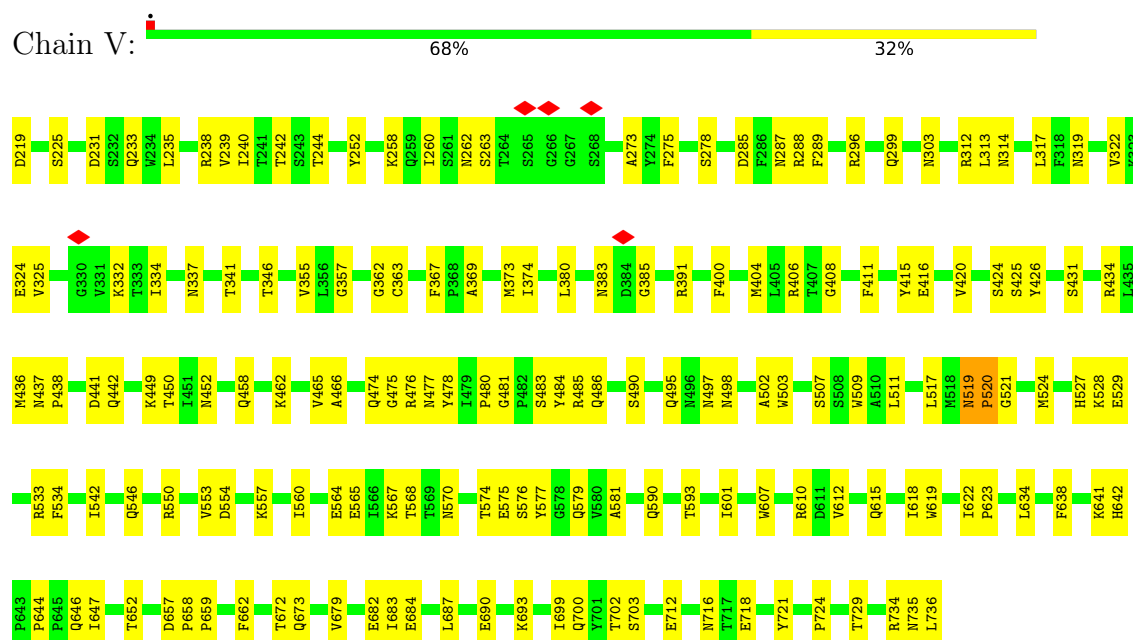


• Molecule 1: Capsid protein VP1

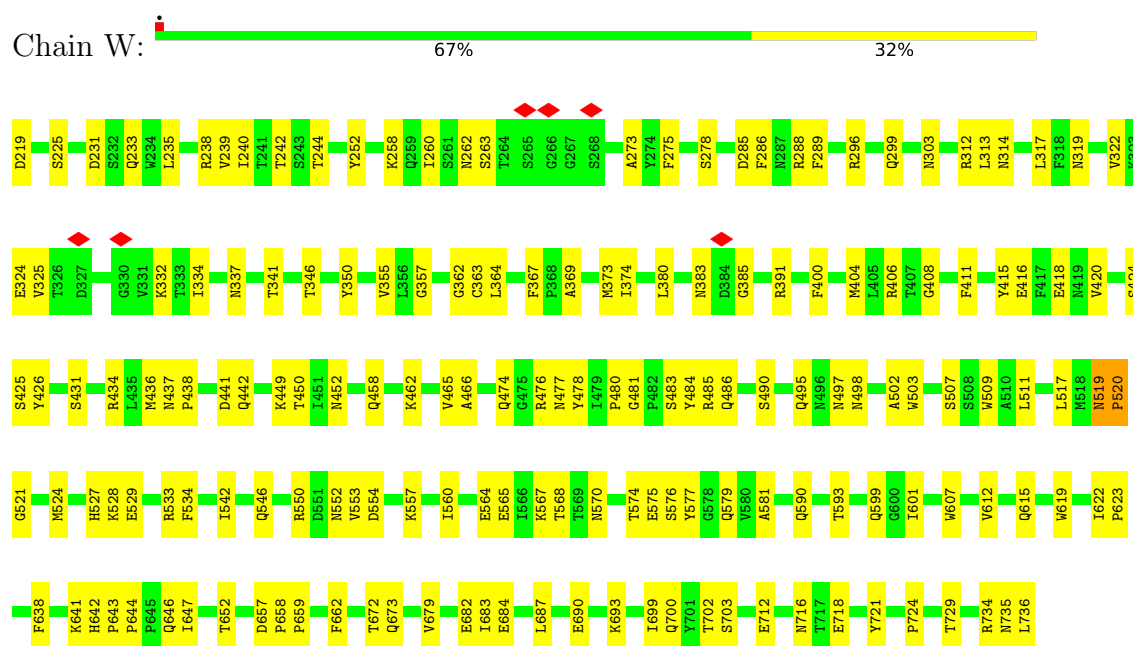




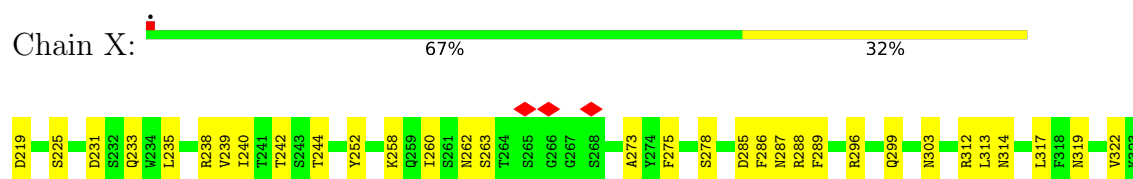
- Molecule 1: Capsid protein VP1

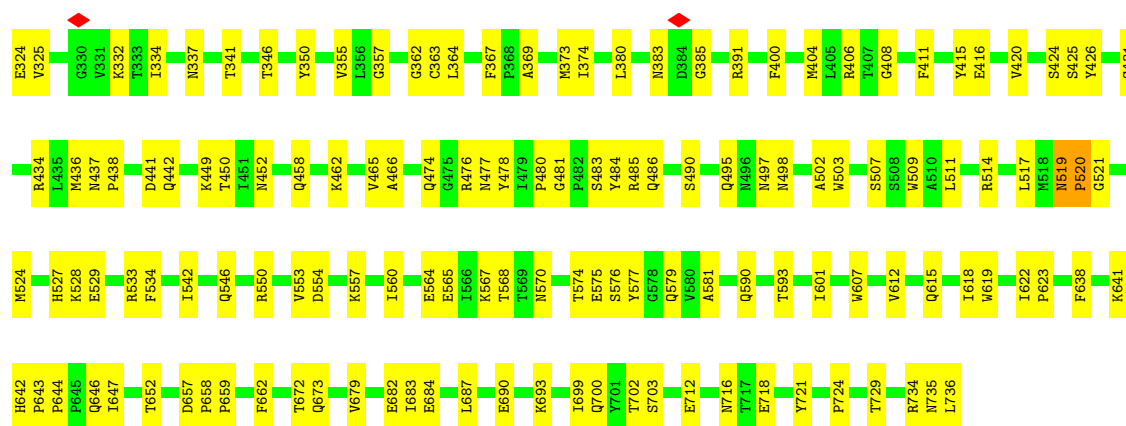


- Molecule 1: Capsid protein VP1

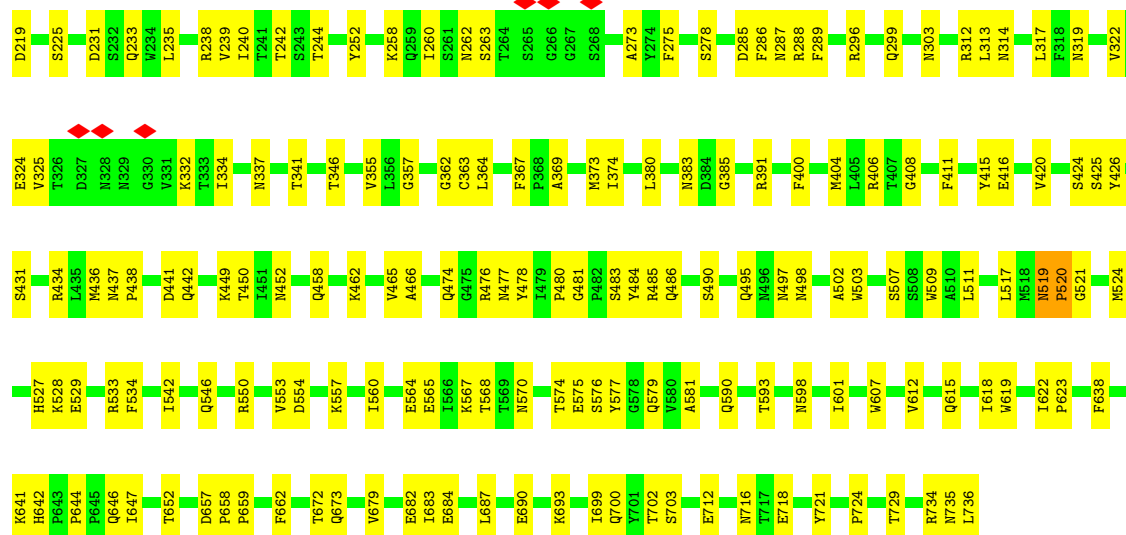


- Molecule 1: Capsid protein VP1

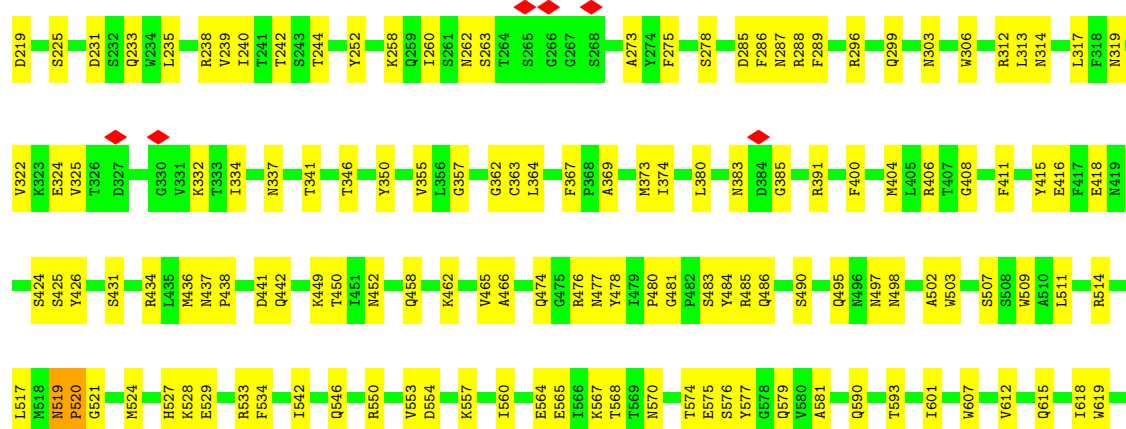




• Molecule 1: Capsid protein VP1

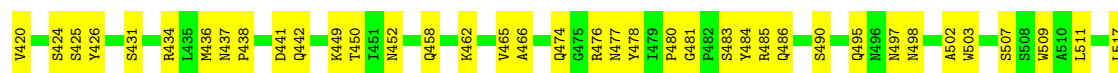
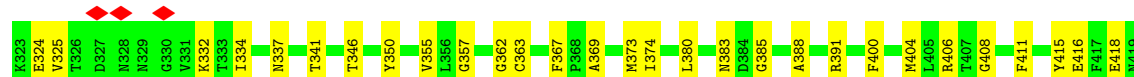
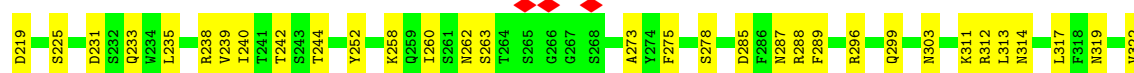


• Molecule 1: Capsid protein VP1

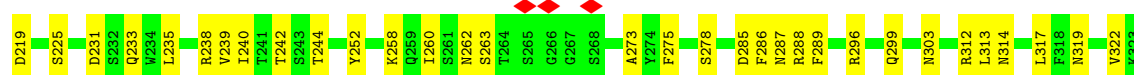




• Molecule 1: Capsid protein VP1

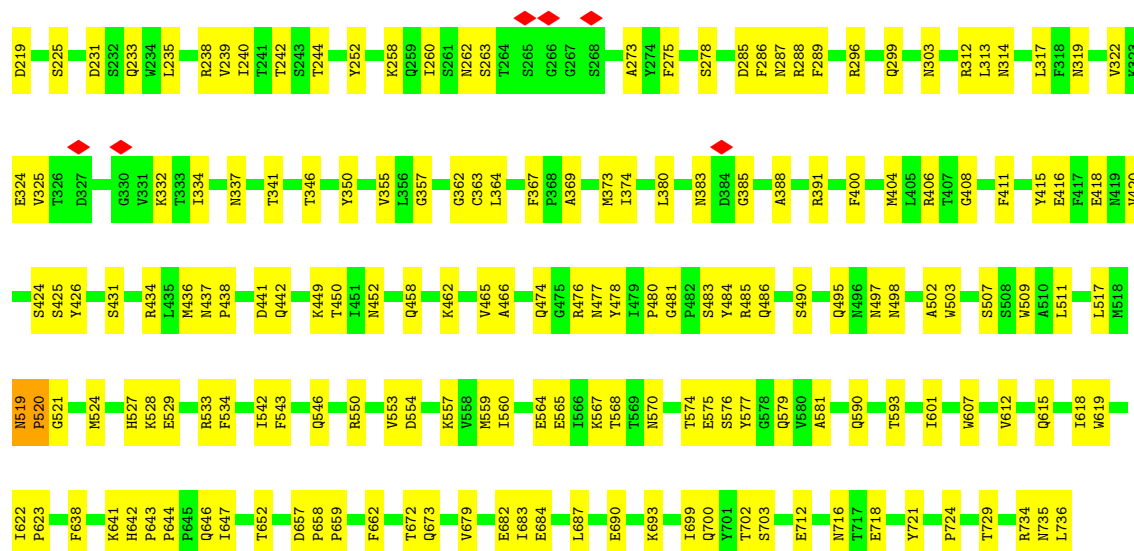


• Molecule 1: Capsid protein VP1

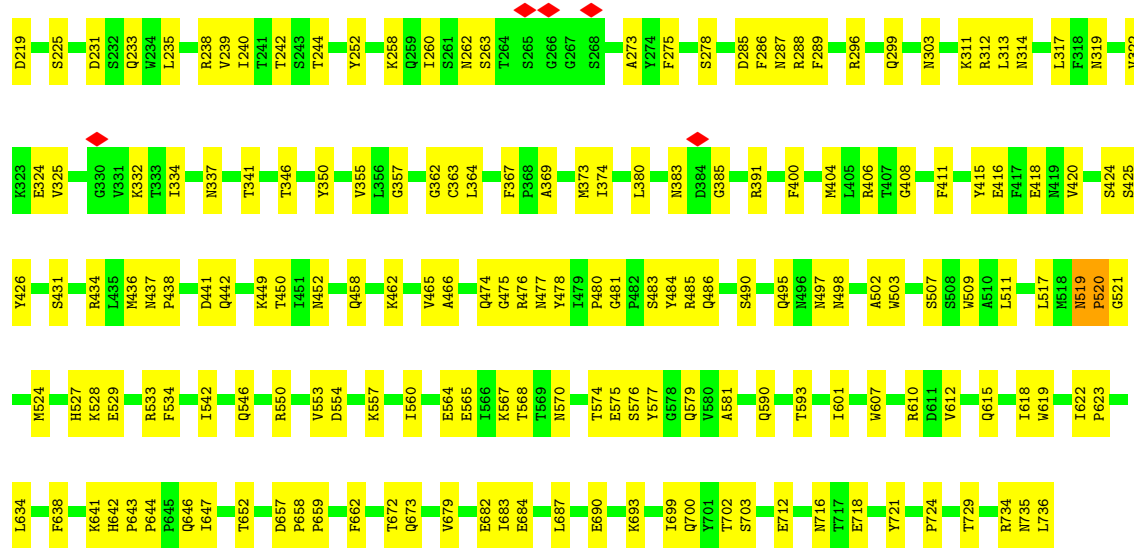


• Molecule 1: Capsid protein VP1

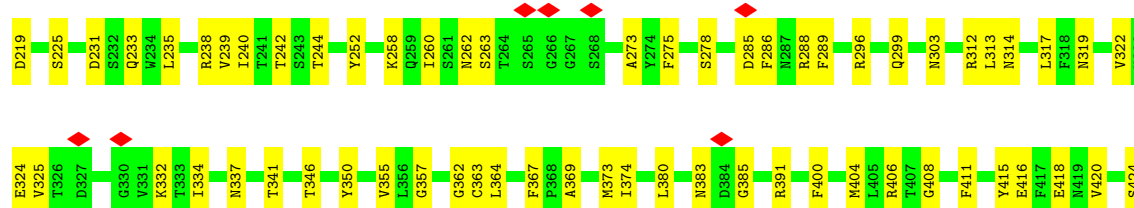




• Molecule 1: Capsid protein VP1

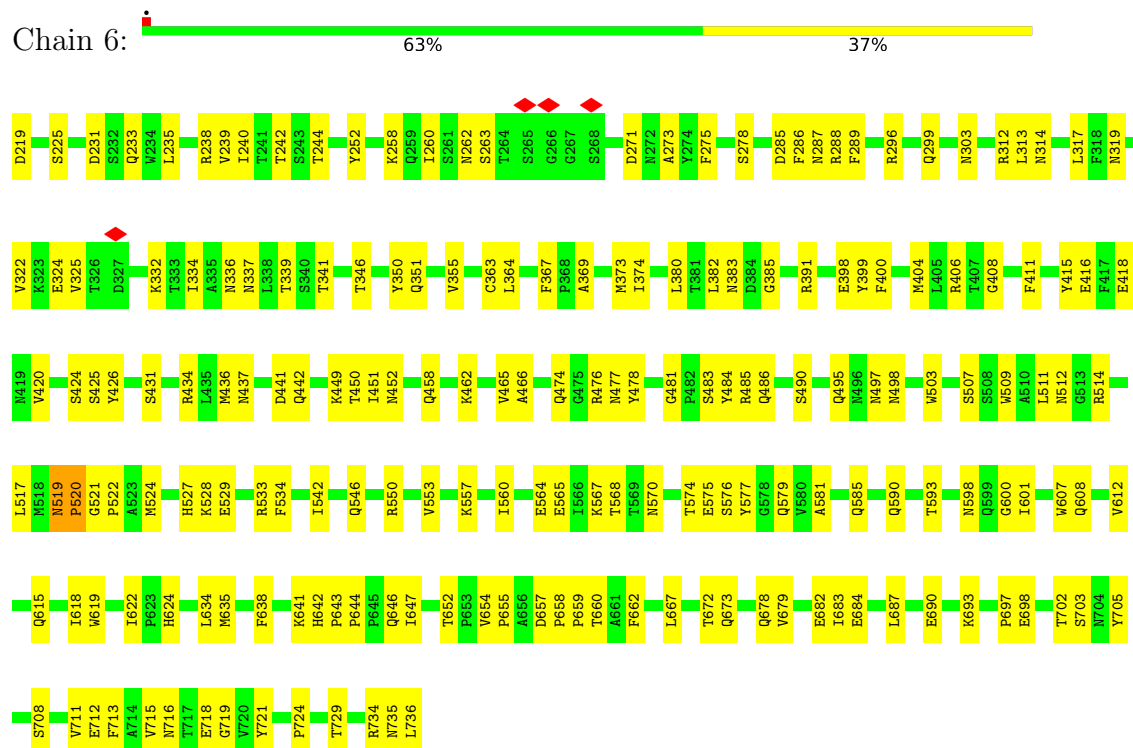


• Molecule 1: Capsid protein VP1

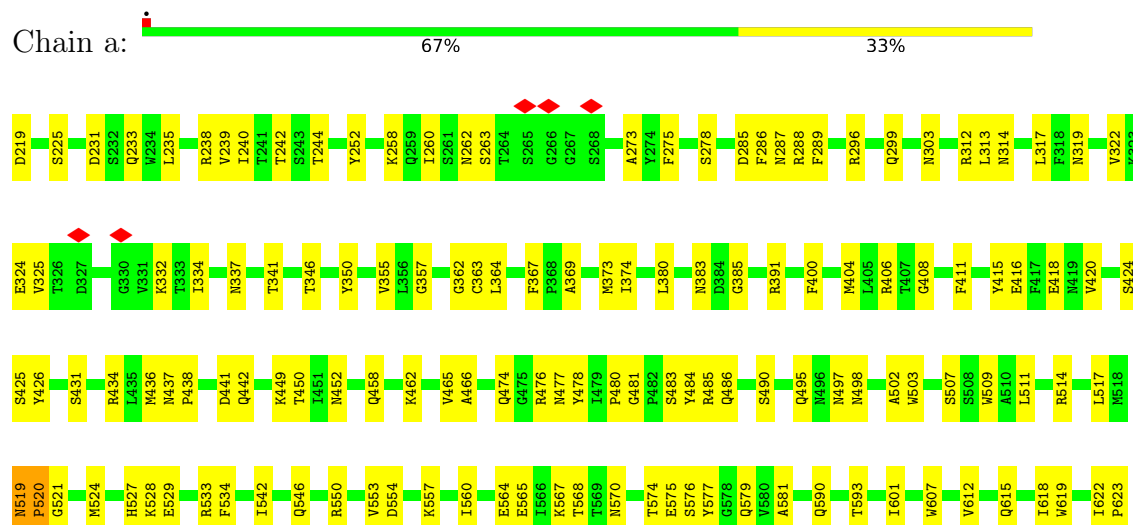




• Molecule 1: Capsid protein VP1

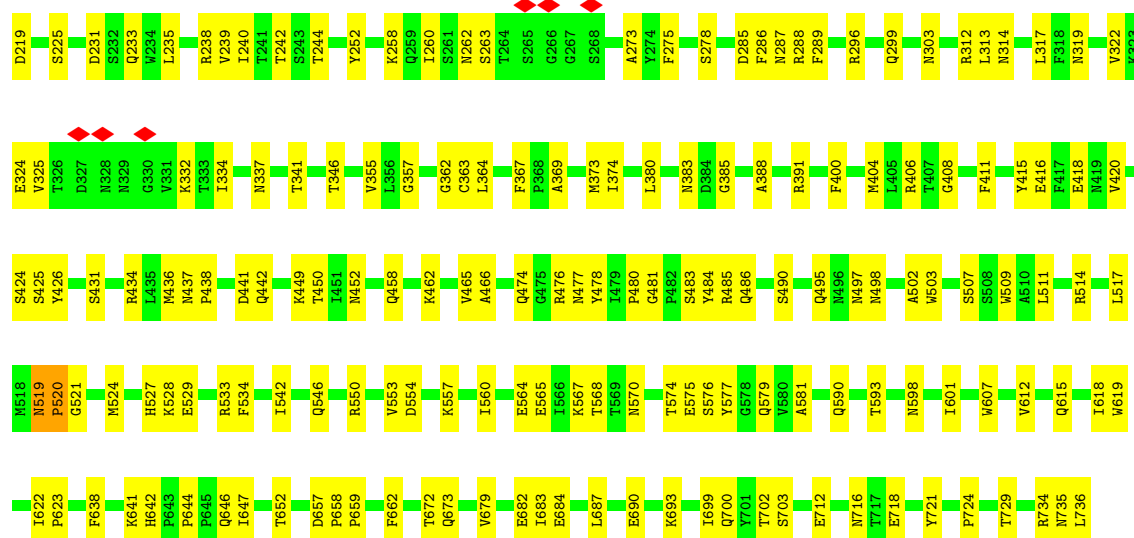


• Molecule 1: Capsid protein VP1

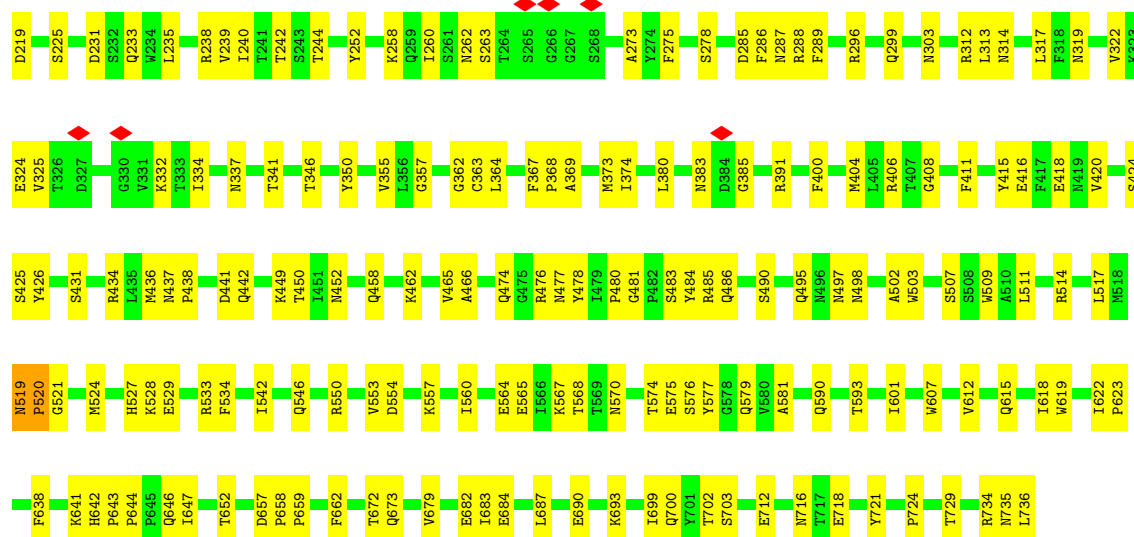




• Molecule 1: Capsid protein VP1

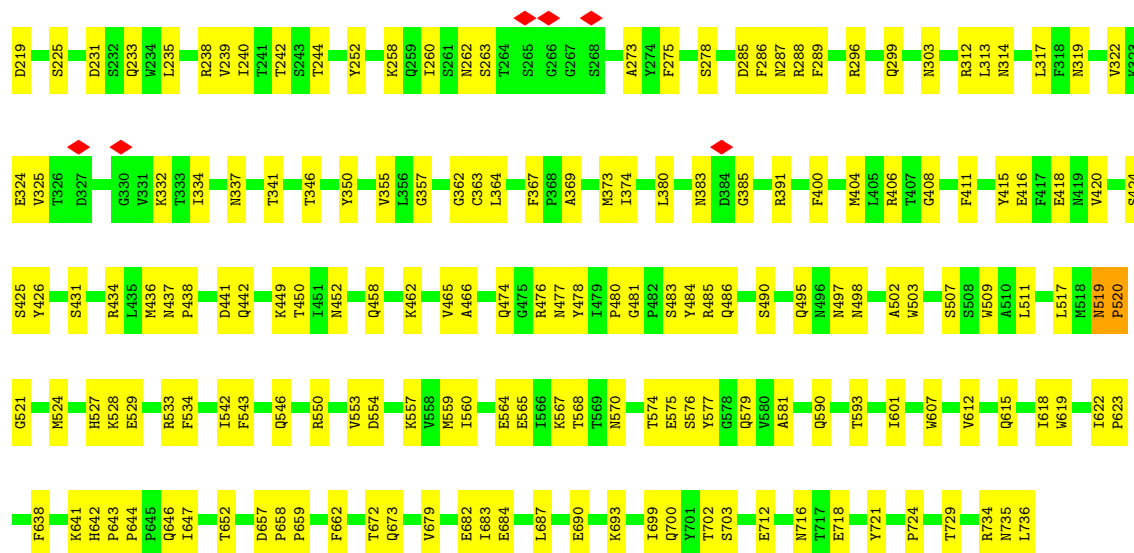


• Molecule 1: Capsid protein VP1

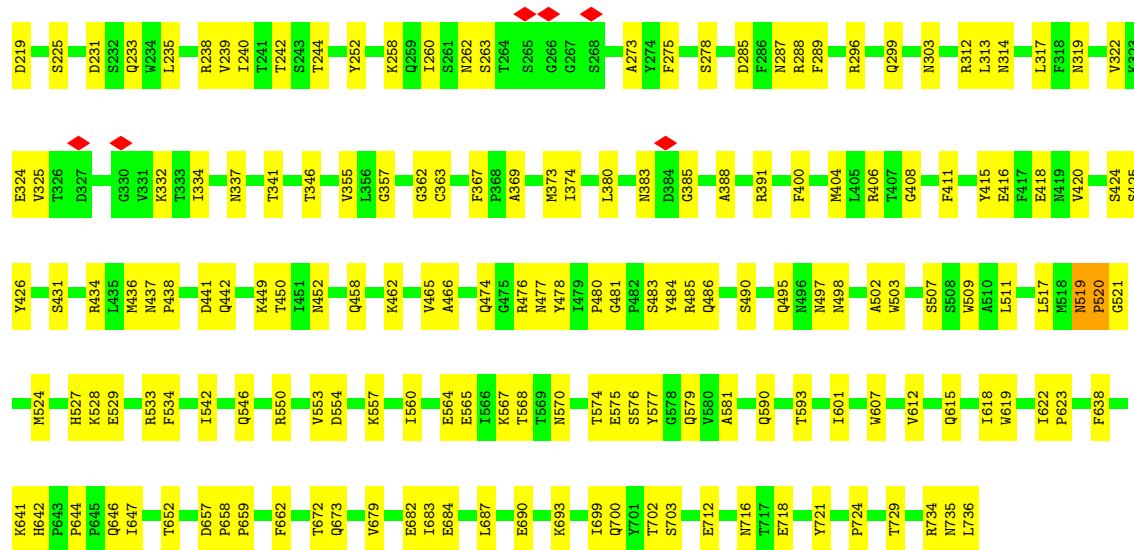


• Molecule 1: Capsid protein VP1

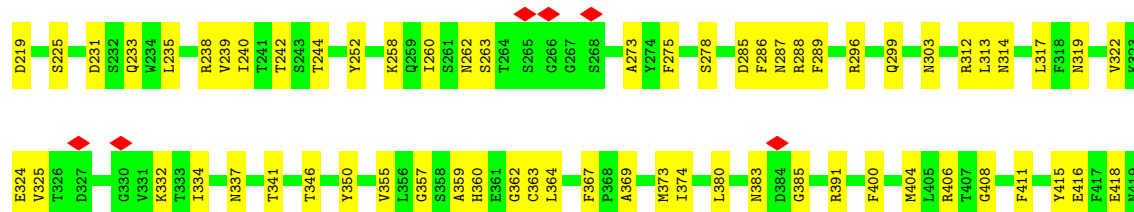




• Molecule 1: Capsid protein VP1

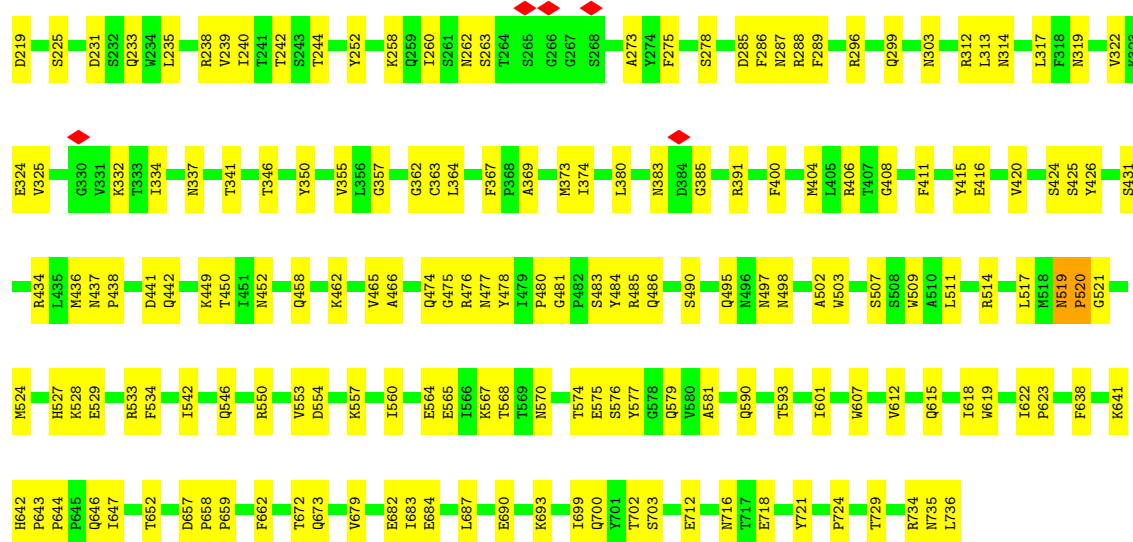


• Molecule 1: Capsid protein VP1

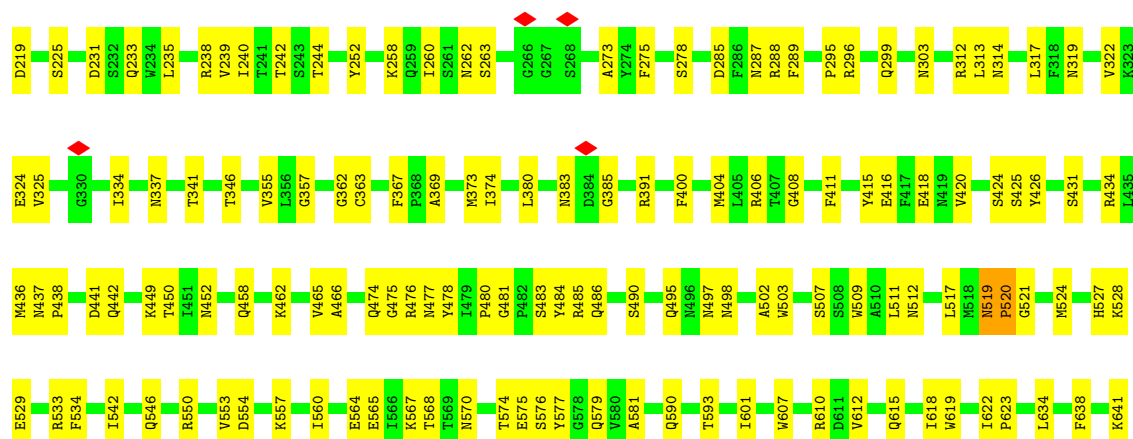




• Molecule 1: Capsid protein VP1

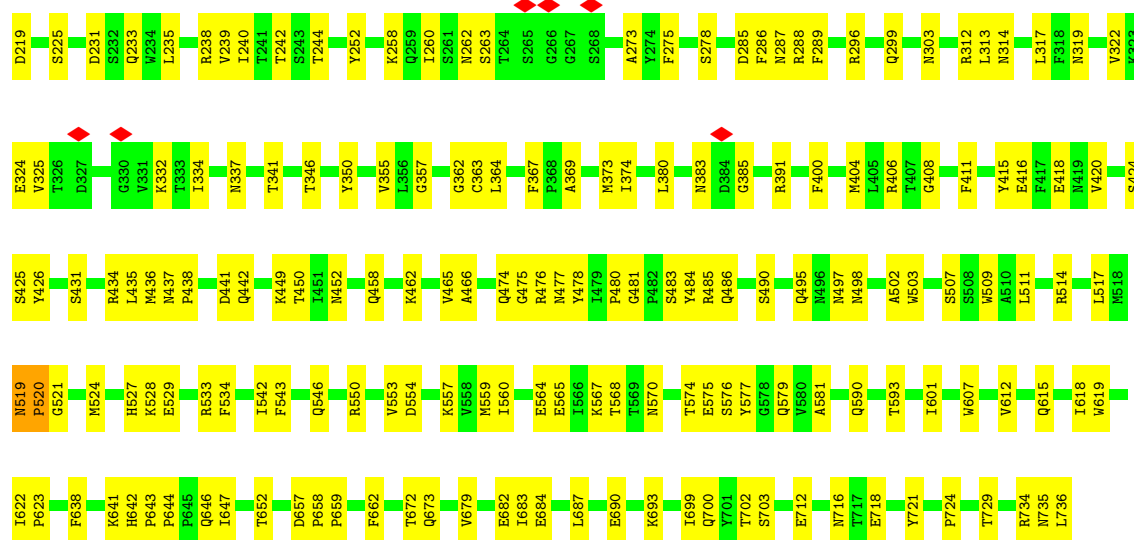


• Molecule 1: Capsid protein VP1

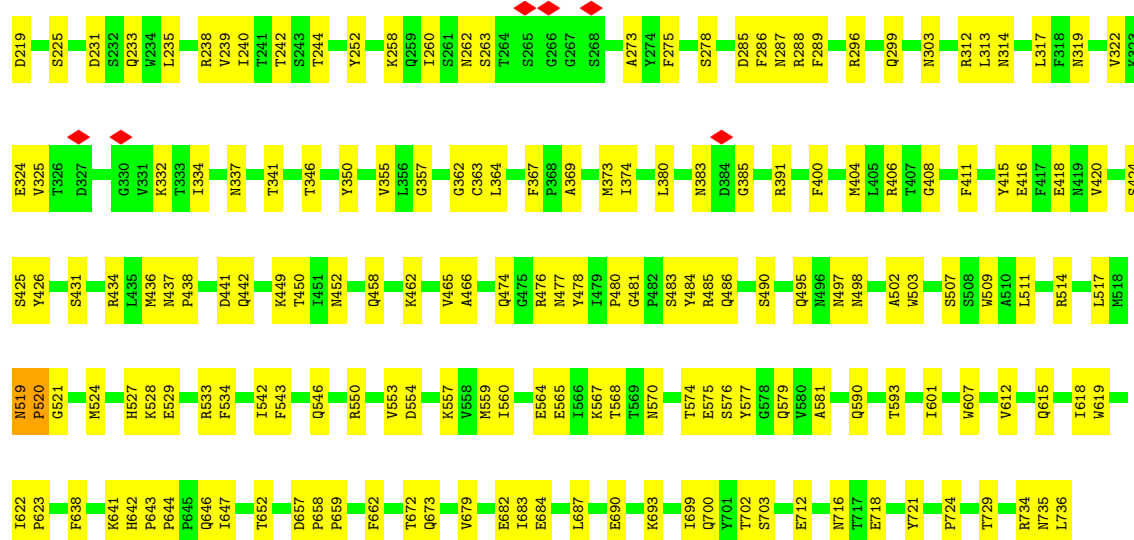




• Molecule 1: Capsid protein VP1

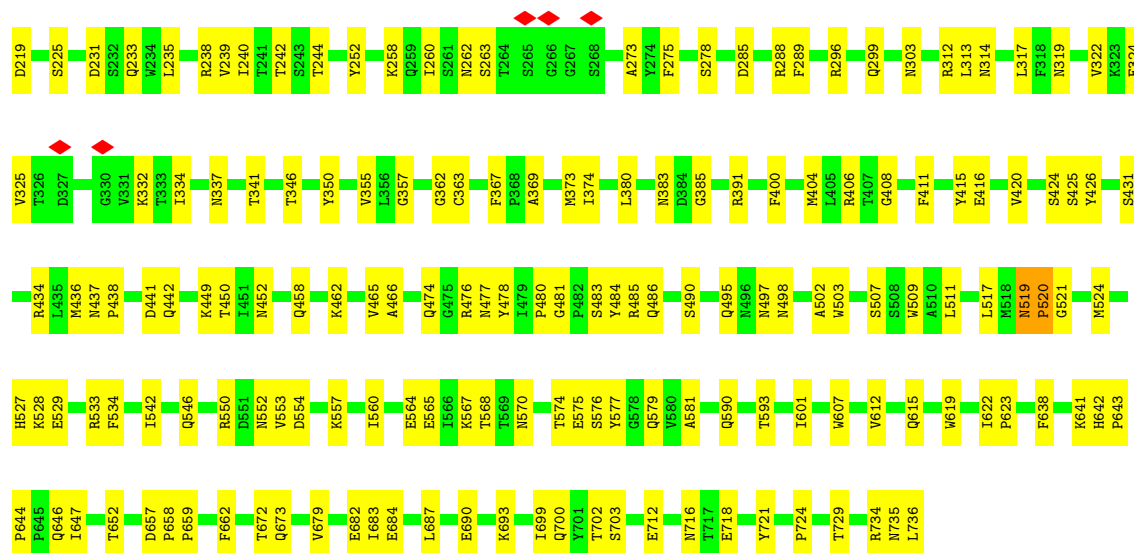


• Molecule 1: Capsid protein VP1

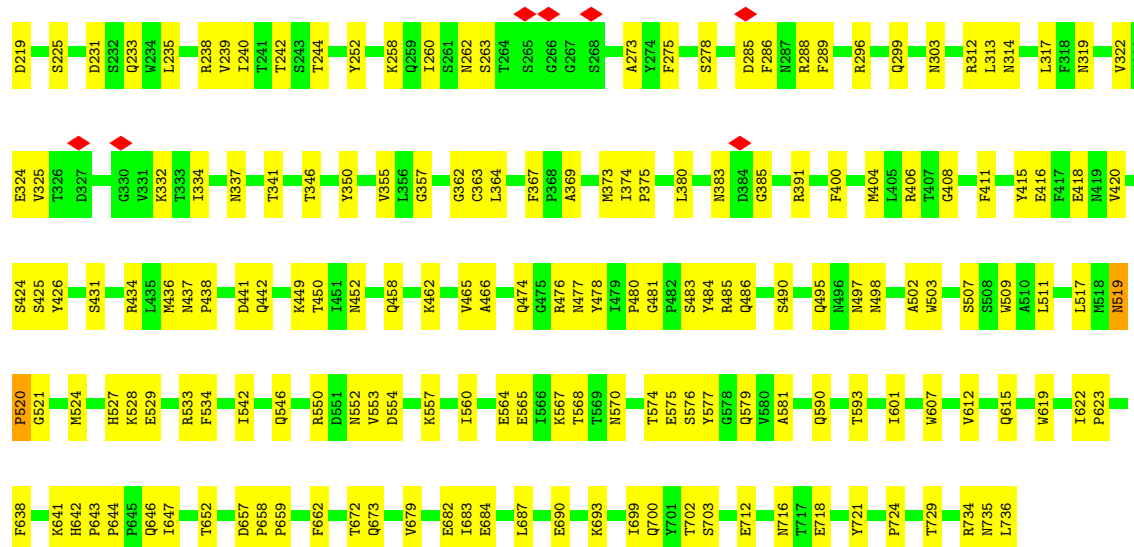


• Molecule 1: Capsid protein VP1

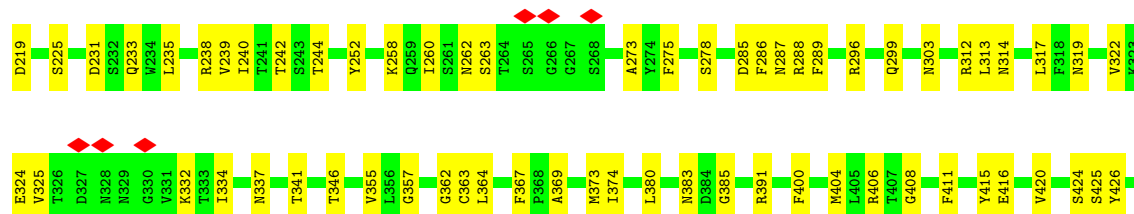


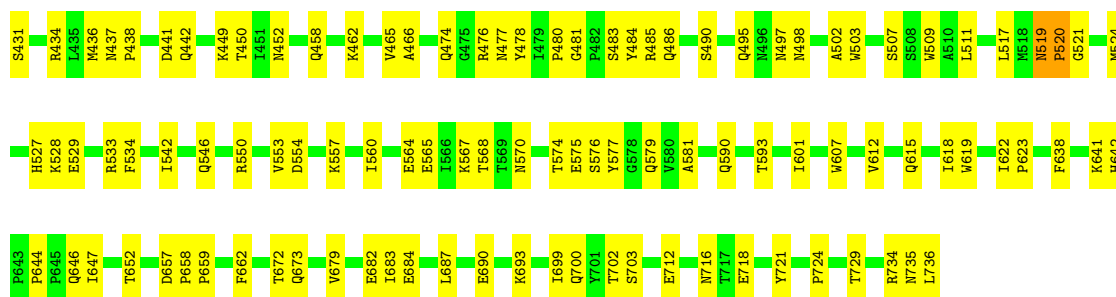


• Molecule 1: Capsid protein VP1

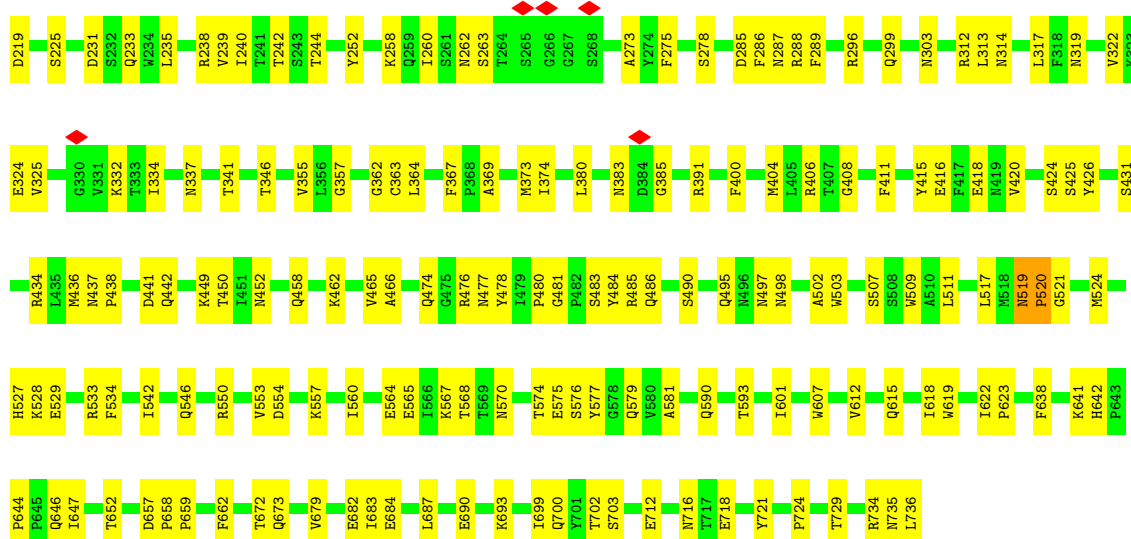


• Molecule 1: Capsid protein VP1

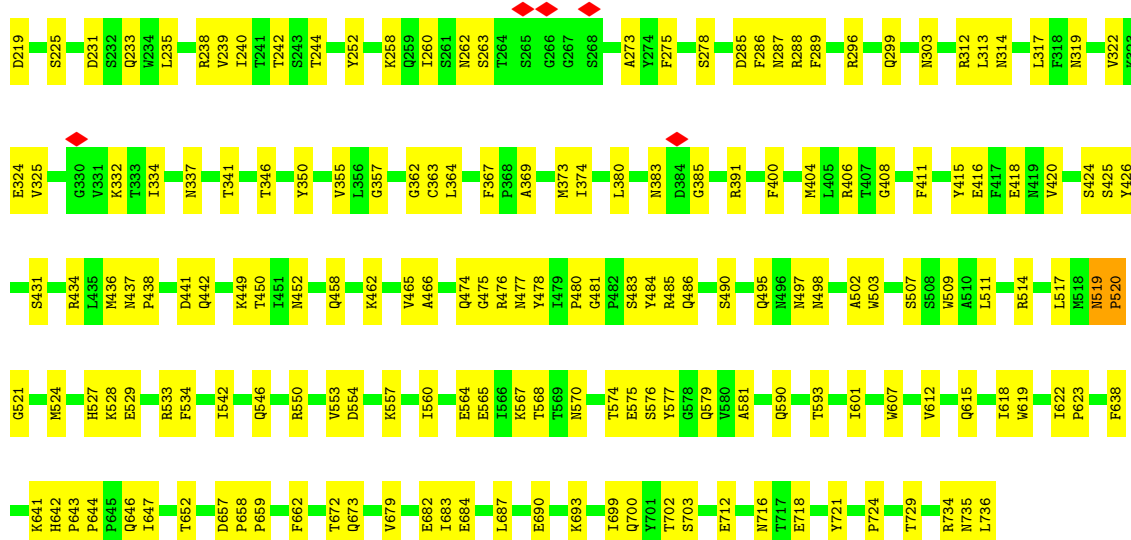




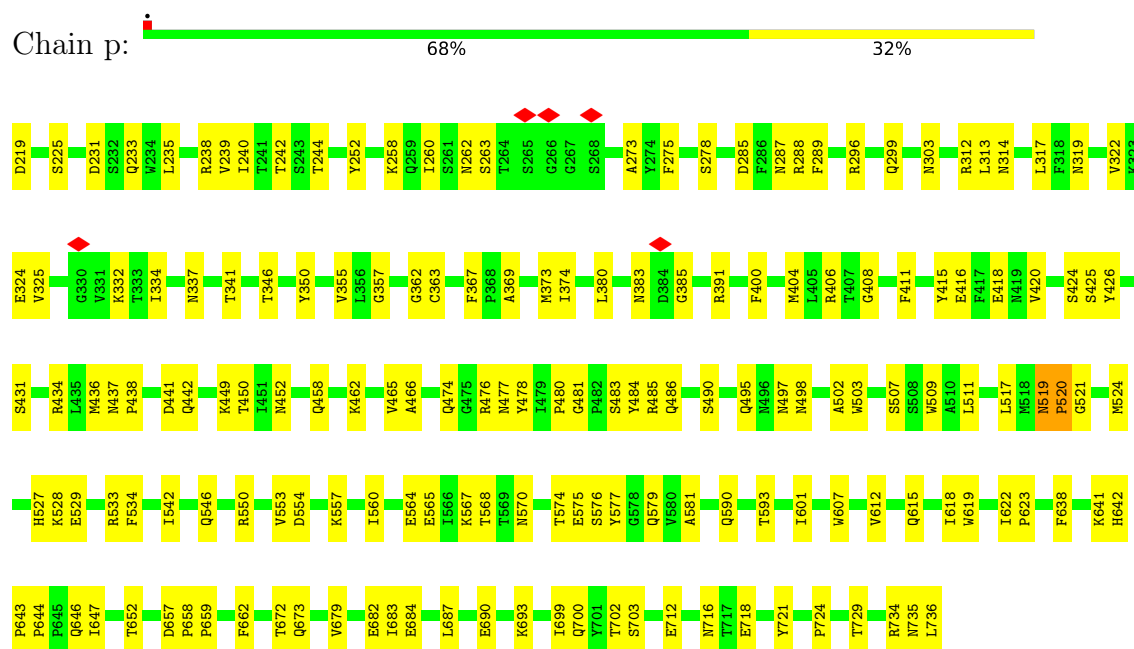
• Molecule 1: Capsid protein VP1



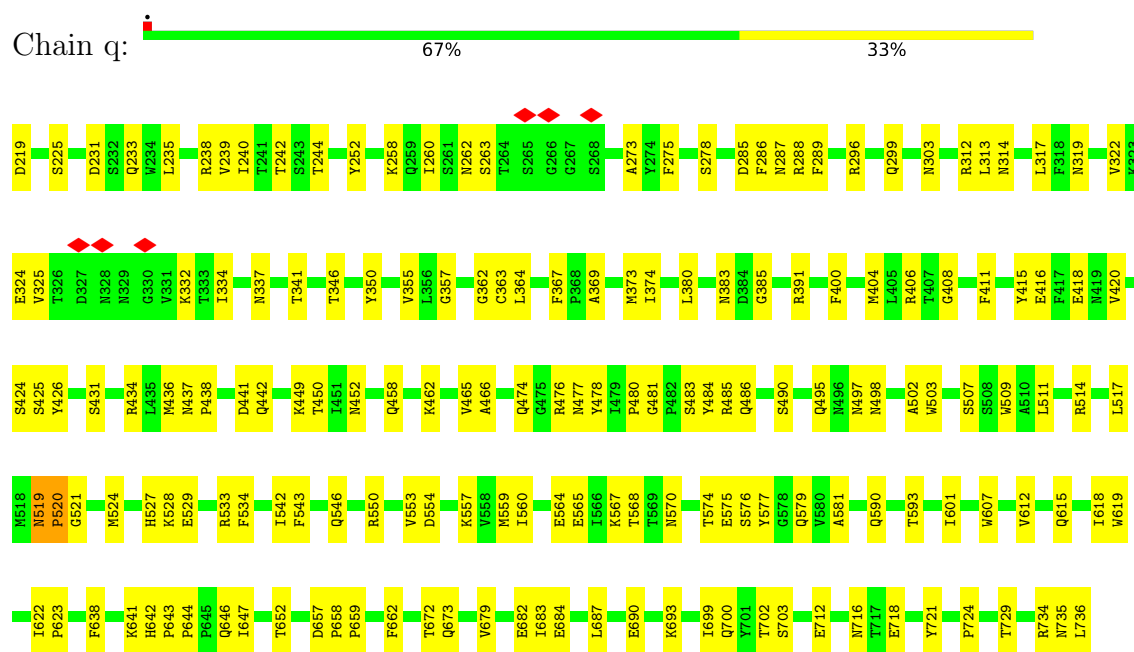
• Molecule 1: Capsid protein VP1



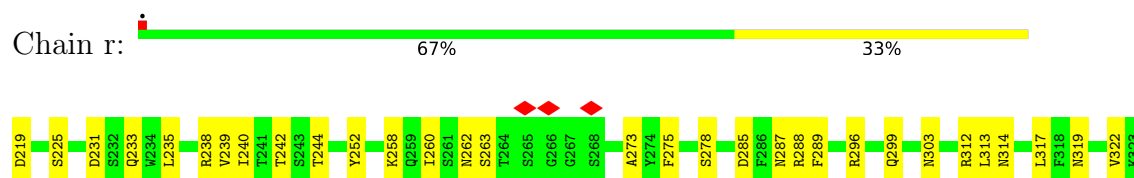
- Molecule 1: Capsid protein VP1

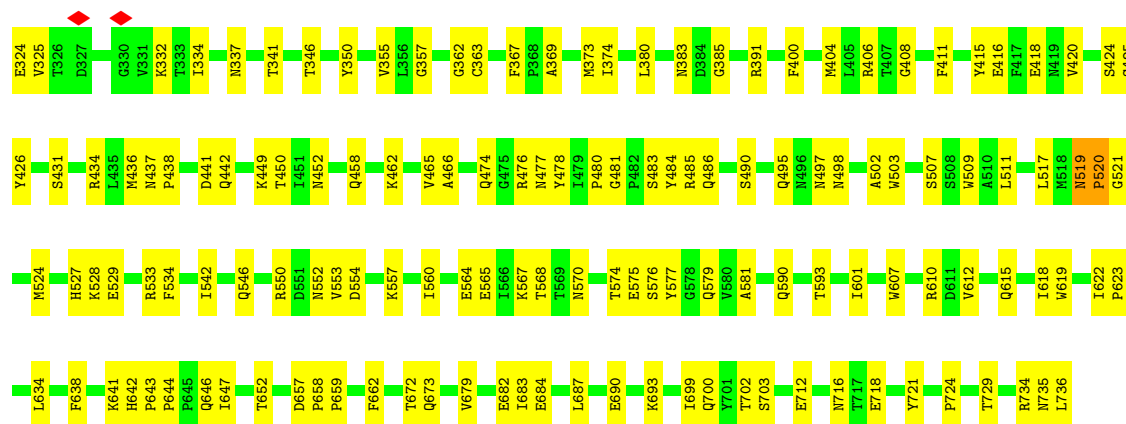


- Molecule 1: Capsid protein VP1

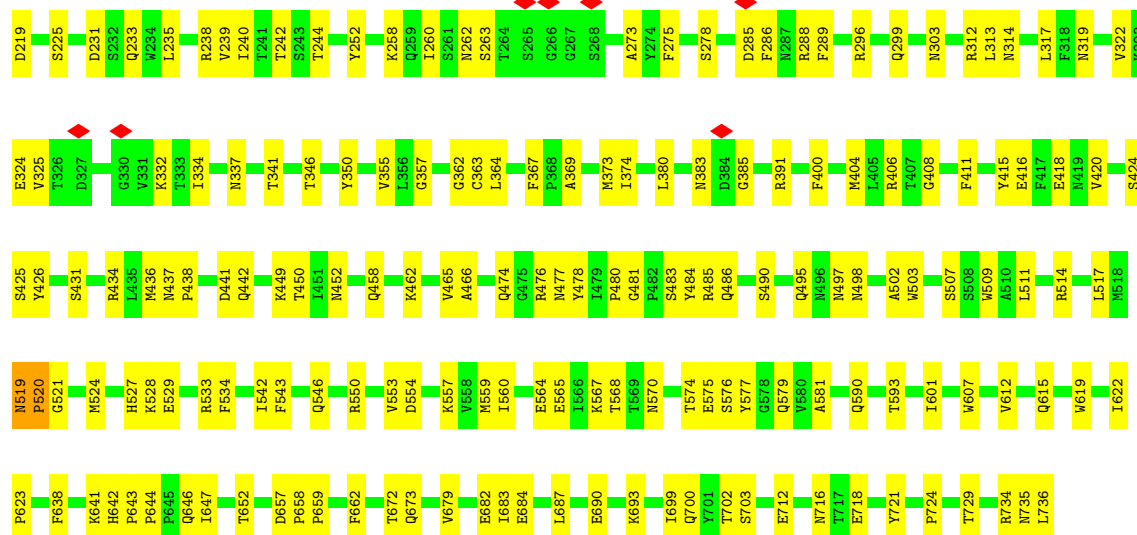


- Molecule 1: Capsid protein VP1

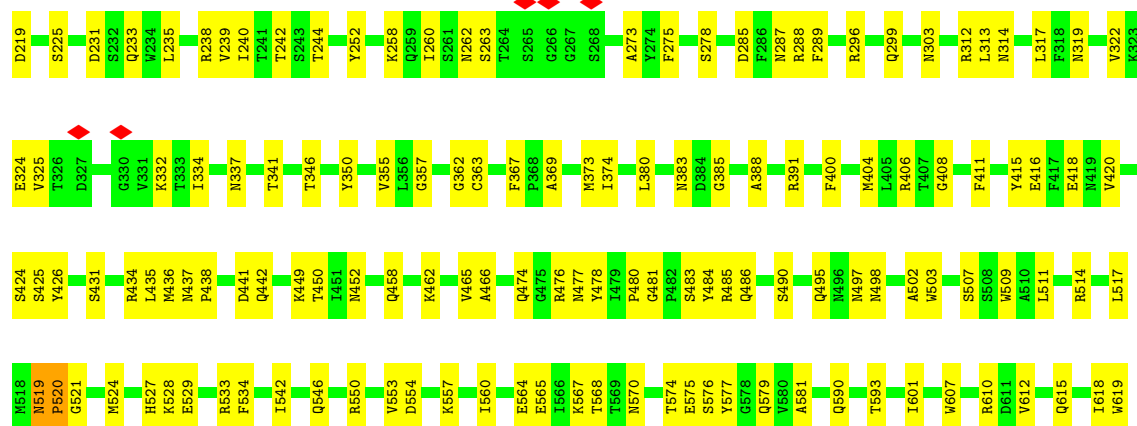




• Molecule 1: Capsid protein VP1

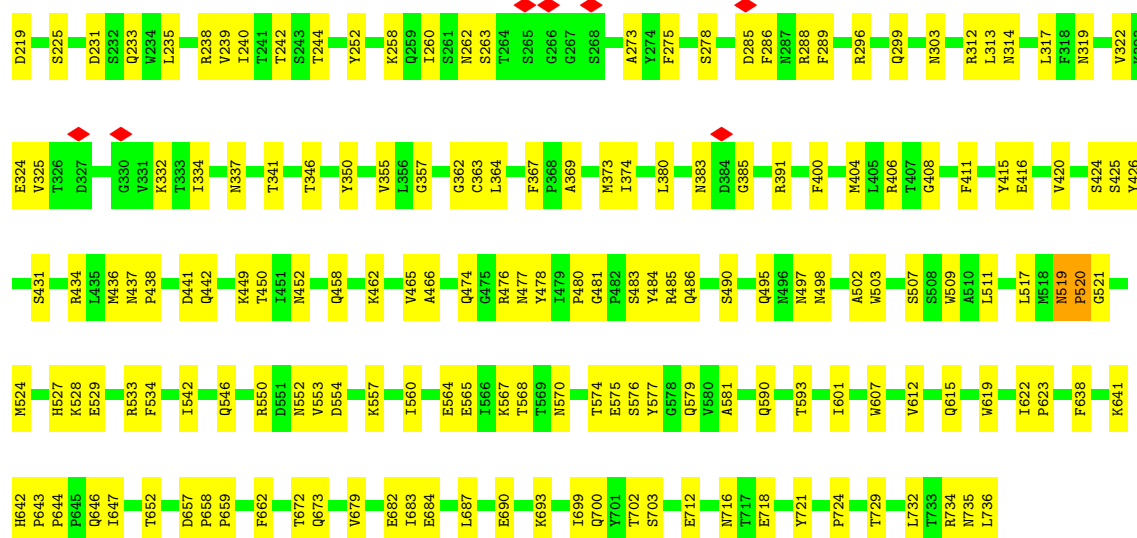


• Molecule 1: Capsid protein VP1

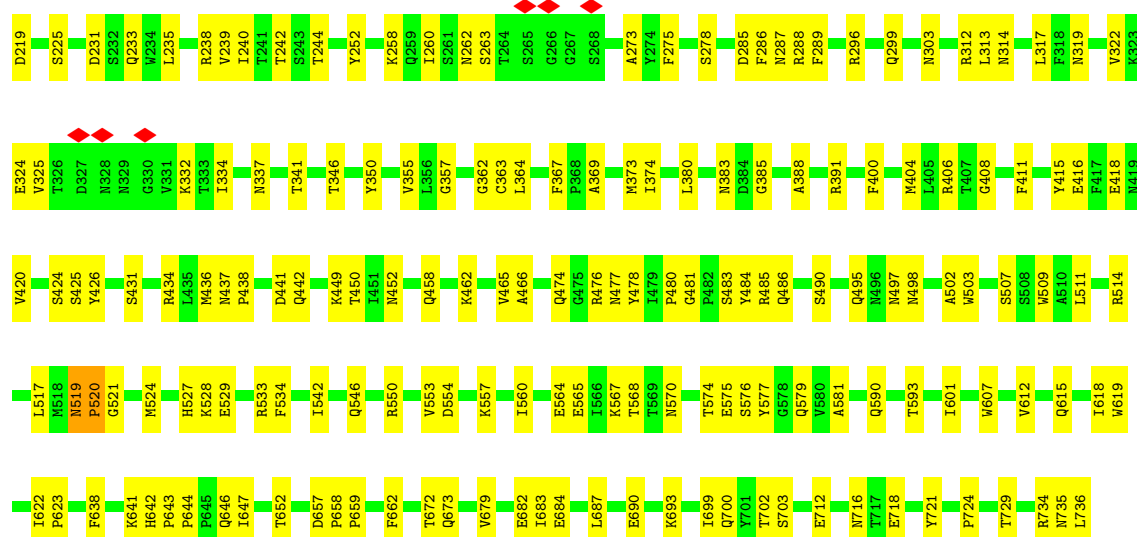




• Molecule 1: Capsid protein VP1

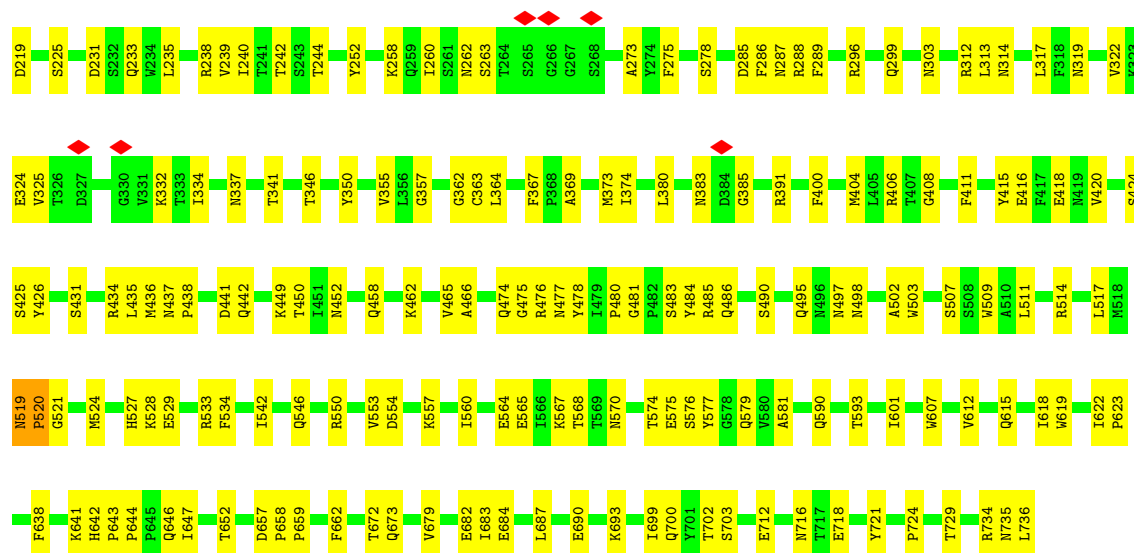


• Molecule 1: Capsid protein VP1

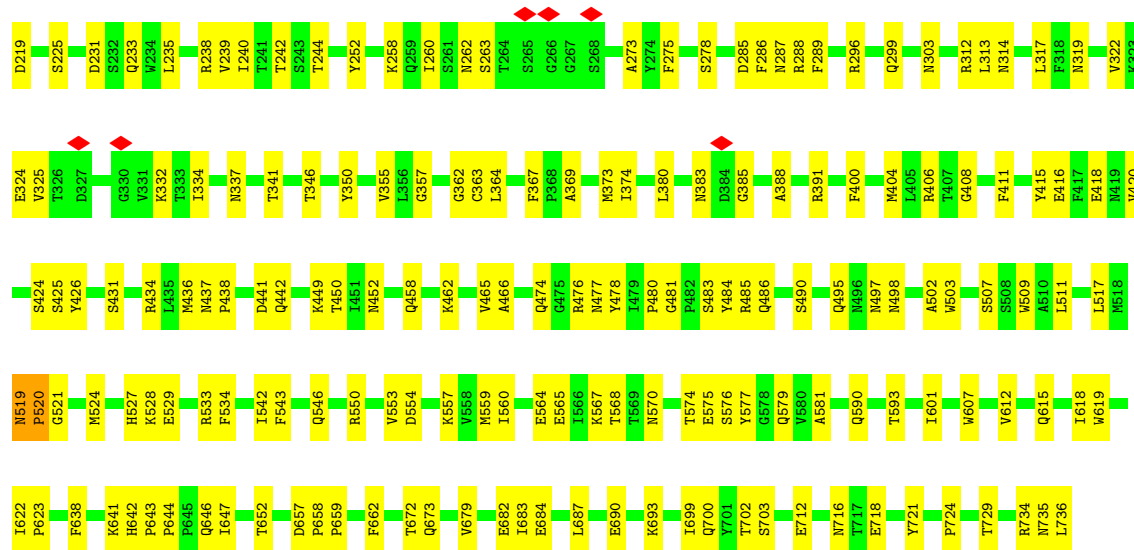


• Molecule 1: Capsid protein VP1

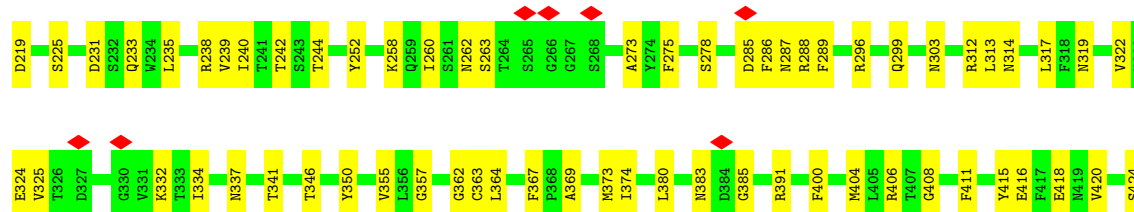


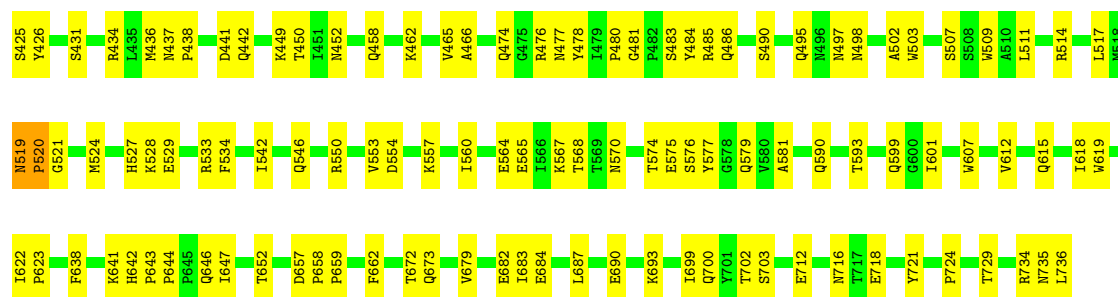


• Molecule 1: Capsid protein VP1

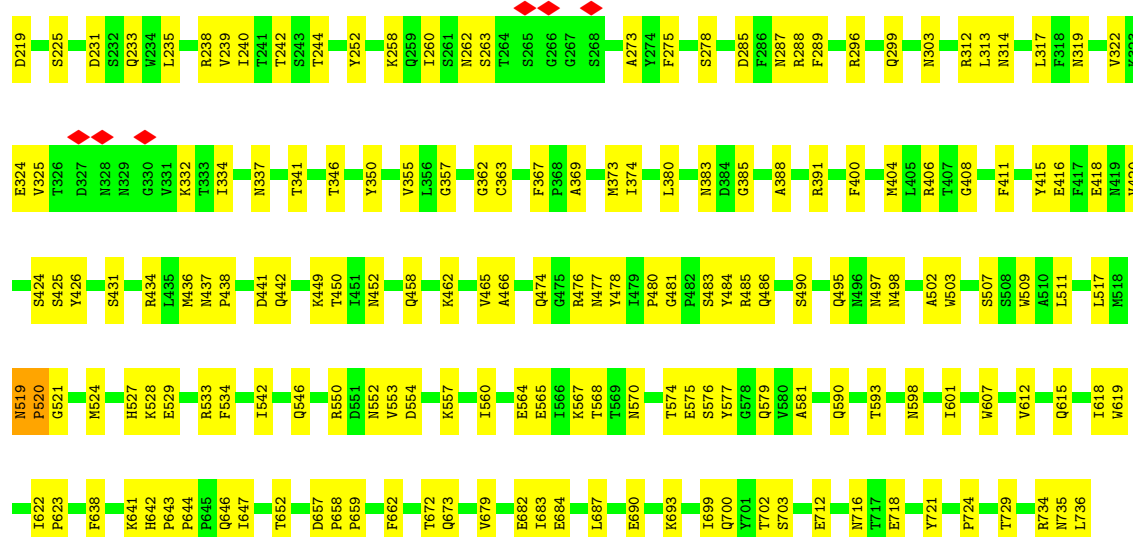


• Molecule 1: Capsid protein VP1

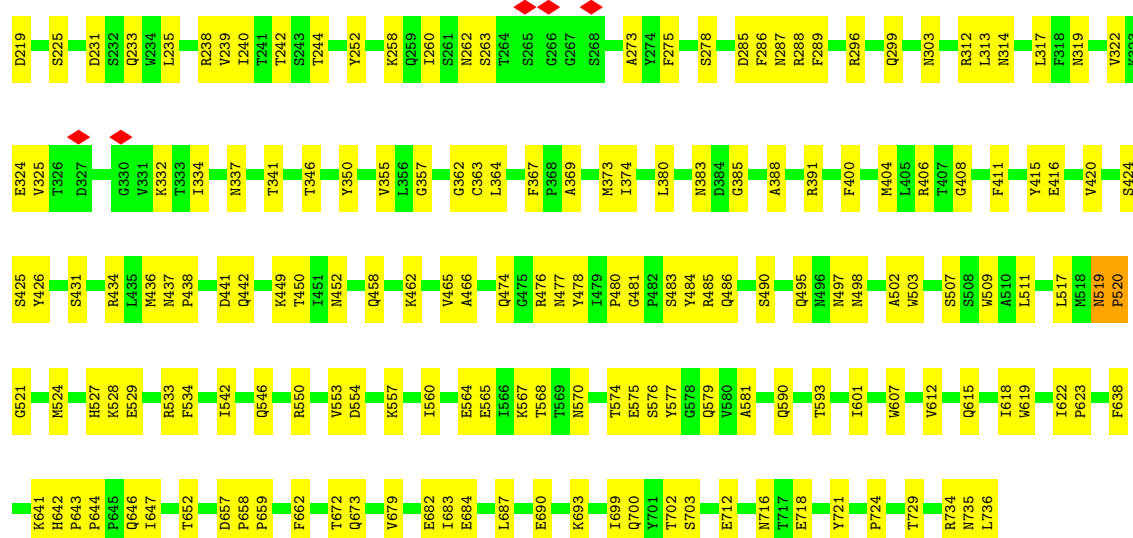




• Molecule 1: Capsid protein VP1

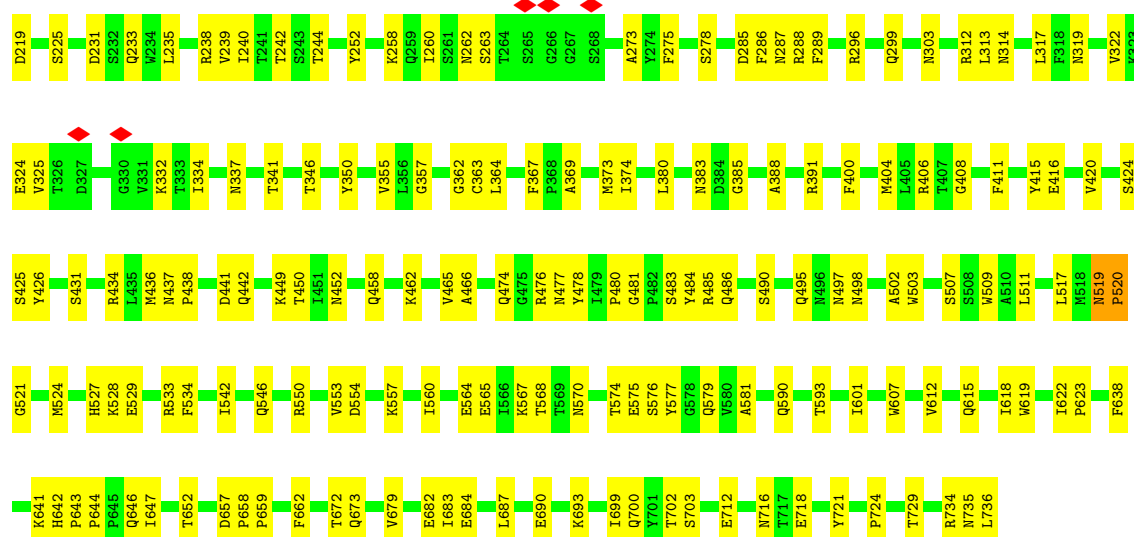


• Molecule 1: Capsid protein VP1



● Molecule 1: Capsid protein VP1

Chain 8:  67% 32%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	107405	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	25.952	Depositor
Minimum map value	-14.997	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size ($\text{\AA}$)	479.367, 479.367, 479.367	wwPDB
Map dimensions	441, 441, 441	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	1.087, 1.087, 1.087	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.37	0/4256	0.54	3/5800 (0.1%)
1	2	0.37	0/4256	0.54	3/5800 (0.1%)
1	3	0.37	0/4256	0.54	3/5800 (0.1%)
1	4	0.37	0/4256	0.54	3/5800 (0.1%)
1	5	0.37	0/4256	0.54	3/5800 (0.1%)
1	6	0.37	0/4256	0.54	3/5800 (0.1%)
1	7	0.37	0/4256	0.54	3/5800 (0.1%)
1	8	0.37	0/4256	0.54	3/5800 (0.1%)
1	A	0.37	0/4256	0.54	3/5800 (0.1%)
1	B	0.37	0/4256	0.54	3/5800 (0.1%)
1	C	0.37	0/4256	0.54	3/5800 (0.1%)
1	D	0.37	0/4256	0.54	3/5800 (0.1%)
1	E	0.37	0/4256	0.54	3/5800 (0.1%)
1	F	0.37	0/4256	0.54	3/5800 (0.1%)
1	G	0.37	0/4256	0.54	3/5800 (0.1%)
1	H	0.37	0/4256	0.54	3/5800 (0.1%)
1	I	0.37	0/4256	0.54	3/5800 (0.1%)
1	J	0.37	0/4256	0.54	3/5800 (0.1%)
1	K	0.37	0/4256	0.54	3/5800 (0.1%)
1	L	0.37	0/4256	0.54	3/5800 (0.1%)
1	M	0.37	0/4256	0.54	3/5800 (0.1%)
1	N	0.37	0/4256	0.54	3/5800 (0.1%)
1	O	0.37	0/4256	0.54	3/5800 (0.1%)
1	P	0.37	0/4256	0.54	3/5800 (0.1%)
1	Q	0.37	0/4256	0.54	3/5800 (0.1%)
1	R	0.37	0/4256	0.54	3/5800 (0.1%)
1	S	0.37	0/4256	0.54	3/5800 (0.1%)
1	T	0.37	0/4256	0.54	3/5800 (0.1%)
1	U	0.37	0/4256	0.54	3/5800 (0.1%)
1	V	0.37	0/4256	0.54	3/5800 (0.1%)
1	W	0.37	0/4256	0.54	3/5800 (0.1%)
1	X	0.37	0/4256	0.54	3/5800 (0.1%)
1	Y	0.37	0/4256	0.54	3/5800 (0.1%)
1	Z	0.37	0/4256	0.54	3/5800 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.37	0/4256	0.54	3/5800 (0.1%)
1	b	0.37	0/4256	0.54	3/5800 (0.1%)
1	c	0.37	0/4256	0.54	3/5800 (0.1%)
1	d	0.37	0/4256	0.54	3/5800 (0.1%)
1	e	0.37	0/4256	0.54	3/5800 (0.1%)
1	f	0.37	0/4256	0.54	3/5800 (0.1%)
1	g	0.37	0/4256	0.54	3/5800 (0.1%)
1	h	0.37	0/4256	0.54	3/5800 (0.1%)
1	i	0.37	0/4256	0.54	3/5800 (0.1%)
1	j	0.37	0/4256	0.54	3/5800 (0.1%)
1	k	0.37	0/4256	0.54	3/5800 (0.1%)
1	l	0.37	0/4256	0.54	3/5800 (0.1%)
1	m	0.37	0/4256	0.54	3/5800 (0.1%)
1	n	0.37	0/4256	0.54	3/5800 (0.1%)
1	o	0.37	0/4256	0.54	3/5800 (0.1%)
1	p	0.37	0/4256	0.54	3/5800 (0.1%)
1	q	0.37	0/4256	0.54	3/5800 (0.1%)
1	r	0.37	0/4256	0.54	3/5800 (0.1%)
1	s	0.37	0/4256	0.54	3/5800 (0.1%)
1	t	0.37	0/4256	0.54	3/5800 (0.1%)
1	u	0.37	0/4256	0.54	3/5800 (0.1%)
1	v	0.37	0/4256	0.54	3/5800 (0.1%)
1	w	0.37	0/4256	0.54	3/5800 (0.1%)
1	x	0.37	0/4256	0.54	3/5800 (0.1%)
1	y	0.37	0/4256	0.54	3/5800 (0.1%)
1	z	0.37	0/4256	0.54	3/5800 (0.1%)
All	All	0.37	0/255360	0.54	180/348000 (0.1%)

There are no bond length outliers.

All (180) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	258	LYS	N-CA-C	9.93	124.04	112.72
1	y	258	LYS	N-CA-C	9.93	124.04	112.72
1	k	258	LYS	N-CA-C	9.93	124.04	112.72
1	Q	258	LYS	N-CA-C	9.91	124.02	112.72
1	c	258	LYS	N-CA-C	9.91	124.02	112.72
1	h	258	LYS	N-CA-C	9.91	124.02	112.72
1	I	258	LYS	N-CA-C	9.90	124.01	112.72
1	8	258	LYS	N-CA-C	9.90	124.00	112.72
1	D	258	LYS	N-CA-C	9.89	124.00	112.72
1	G	258	LYS	N-CA-C	9.89	124.00	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	258	LYS	N-CA-C	9.89	124.00	112.72
1	a	258	LYS	N-CA-C	9.89	124.00	112.72
1	t	258	LYS	N-CA-C	9.89	124.00	112.72
1	x	258	LYS	N-CA-C	9.89	124.00	112.72
1	7	258	LYS	N-CA-C	9.89	124.00	112.72
1	L	258	LYS	N-CA-C	9.89	123.99	112.72
1	P	258	LYS	N-CA-C	9.89	123.99	112.72
1	R	258	LYS	N-CA-C	9.89	123.99	112.72
1	V	258	LYS	N-CA-C	9.89	123.99	112.72
1	f	258	LYS	N-CA-C	9.89	123.99	112.72
1	o	258	LYS	N-CA-C	9.89	123.99	112.72
1	A	258	LYS	N-CA-C	9.88	123.99	112.72
1	C	258	LYS	N-CA-C	9.88	123.99	112.72
1	Y	258	LYS	N-CA-C	9.88	123.99	112.72
1	l	258	LYS	N-CA-C	9.88	123.99	112.72
1	5	258	LYS	N-CA-C	9.88	123.99	112.72
1	b	258	LYS	N-CA-C	9.88	123.99	112.72
1	m	258	LYS	N-CA-C	9.88	123.99	112.72
1	q	258	LYS	N-CA-C	9.88	123.99	112.72
1	u	258	LYS	N-CA-C	9.88	123.99	112.72
1	z	258	LYS	N-CA-C	9.88	123.99	112.72
1	2	258	LYS	N-CA-C	9.88	123.99	112.72
1	v	258	LYS	N-CA-C	9.88	123.99	112.72
1	U	258	LYS	N-CA-C	9.88	123.98	112.72
1	F	258	LYS	N-CA-C	9.88	123.98	112.72
1	j	258	LYS	N-CA-C	9.88	123.98	112.72
1	S	258	LYS	N-CA-C	9.88	123.98	112.72
1	X	258	LYS	N-CA-C	9.88	123.98	112.72
1	p	258	LYS	N-CA-C	9.88	123.98	112.72
1	O	258	LYS	N-CA-C	9.87	123.98	112.72
1	r	258	LYS	N-CA-C	9.87	123.98	112.72
1	Z	258	LYS	N-CA-C	9.87	123.97	112.72
1	E	258	LYS	N-CA-C	9.86	123.96	112.72
1	N	258	LYS	N-CA-C	9.86	123.96	112.72
1	4	258	LYS	N-CA-C	9.86	123.96	112.72
1	l	258	LYS	N-CA-C	9.86	123.96	112.72
1	w	258	LYS	N-CA-C	9.86	123.96	112.72
1	n	258	LYS	N-CA-C	9.86	123.96	112.72
1	g	258	LYS	N-CA-C	9.86	123.95	112.72
1	6	258	LYS	N-CA-C	9.85	123.95	112.72
1	H	258	LYS	N-CA-C	9.85	123.95	112.72
1	B	258	LYS	N-CA-C	9.85	123.94	112.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	258	LYS	N-CA-C	9.85	123.94	112.72
1	W	258	LYS	N-CA-C	9.84	123.94	112.72
1	s	258	LYS	N-CA-C	9.84	123.94	112.72
1	T	258	LYS	N-CA-C	9.84	123.93	112.72
1	3	258	LYS	N-CA-C	9.84	123.93	112.72
1	d	258	LYS	N-CA-C	9.84	123.93	112.72
1	e	258	LYS	N-CA-C	9.84	123.93	112.72
1	i	258	LYS	N-CA-C	9.84	123.93	112.72
1	C	521	GLY	CA-C-N	-6.44	113.13	119.76
1	C	521	GLY	C-N-CA	-6.44	113.13	119.76
1	G	521	GLY	CA-C-N	-6.44	113.13	119.76
1	G	521	GLY	C-N-CA	-6.44	113.13	119.76
1	5	521	GLY	CA-C-N	-6.44	113.13	119.76
1	5	521	GLY	C-N-CA	-6.44	113.13	119.76
1	R	521	GLY	CA-C-N	-6.42	113.14	119.76
1	R	521	GLY	C-N-CA	-6.42	113.14	119.76
1	b	521	GLY	CA-C-N	-6.42	113.14	119.76
1	b	521	GLY	C-N-CA	-6.42	113.14	119.76
1	v	521	GLY	CA-C-N	-6.42	113.14	119.76
1	v	521	GLY	C-N-CA	-6.42	113.14	119.76
1	N	521	GLY	CA-C-N	-6.42	113.15	119.76
1	N	521	GLY	C-N-CA	-6.42	113.15	119.76
1	l	521	GLY	CA-C-N	-6.42	113.15	119.76
1	l	521	GLY	C-N-CA	-6.42	113.15	119.76
1	y	521	GLY	CA-C-N	-6.42	113.15	119.76
1	y	521	GLY	C-N-CA	-6.42	113.15	119.76
1	B	521	GLY	CA-C-N	-6.42	113.15	119.76
1	B	521	GLY	C-N-CA	-6.42	113.15	119.76
1	W	521	GLY	CA-C-N	-6.42	113.15	119.76
1	W	521	GLY	C-N-CA	-6.42	113.15	119.76
1	X	521	GLY	CA-C-N	-6.42	113.15	119.76
1	X	521	GLY	C-N-CA	-6.42	113.15	119.76
1	d	521	GLY	CA-C-N	-6.42	113.15	119.76
1	d	521	GLY	C-N-CA	-6.42	113.15	119.76
1	j	521	GLY	CA-C-N	-6.42	113.15	119.76
1	j	521	GLY	C-N-CA	-6.42	113.15	119.76
1	p	521	GLY	CA-C-N	-6.42	113.15	119.76
1	p	521	GLY	C-N-CA	-6.42	113.15	119.76
1	V	521	GLY	CA-C-N	-6.41	113.15	119.76
1	V	521	GLY	C-N-CA	-6.41	113.15	119.76
1	w	521	GLY	CA-C-N	-6.41	113.16	119.76
1	w	521	GLY	C-N-CA	-6.41	113.16	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	x	521	GLY	CA-C-N	-6.41	113.16	119.76
1	x	521	GLY	C-N-CA	-6.41	113.16	119.76
1	L	521	GLY	CA-C-N	-6.41	113.16	119.76
1	L	521	GLY	C-N-CA	-6.41	113.16	119.76
1	h	521	GLY	CA-C-N	-6.41	113.16	119.76
1	h	521	GLY	C-N-CA	-6.41	113.16	119.76
1	o	521	GLY	CA-C-N	-6.41	113.16	119.76
1	o	521	GLY	C-N-CA	-6.41	113.16	119.76
1	s	521	GLY	CA-C-N	-6.41	113.16	119.76
1	s	521	GLY	C-N-CA	-6.41	113.16	119.76
1	f	521	GLY	CA-C-N	-6.41	113.16	119.76
1	f	521	GLY	C-N-CA	-6.41	113.16	119.76
1	K	521	GLY	CA-C-N	-6.40	113.17	119.76
1	K	521	GLY	C-N-CA	-6.40	113.17	119.76
1	U	521	GLY	CA-C-N	-6.40	113.17	119.76
1	U	521	GLY	C-N-CA	-6.40	113.17	119.76
1	A	521	GLY	CA-C-N	-6.40	113.17	119.76
1	A	521	GLY	C-N-CA	-6.40	113.17	119.76
1	P	521	GLY	CA-C-N	-6.40	113.17	119.76
1	P	521	GLY	C-N-CA	-6.40	113.17	119.76
1	Y	521	GLY	CA-C-N	-6.40	113.17	119.76
1	Y	521	GLY	C-N-CA	-6.40	113.17	119.76
1	1	521	GLY	CA-C-N	-6.40	113.17	119.76
1	1	521	GLY	C-N-CA	-6.40	113.17	119.76
1	2	521	GLY	CA-C-N	-6.40	113.17	119.76
1	2	521	GLY	C-N-CA	-6.40	113.17	119.76
1	m	521	GLY	CA-C-N	-6.40	113.17	119.76
1	m	521	GLY	C-N-CA	-6.40	113.17	119.76
1	q	521	GLY	CA-C-N	-6.40	113.17	119.76
1	q	521	GLY	C-N-CA	-6.40	113.17	119.76
1	u	521	GLY	CA-C-N	-6.40	113.17	119.76
1	u	521	GLY	C-N-CA	-6.40	113.17	119.76
1	z	521	GLY	CA-C-N	-6.40	113.17	119.76
1	z	521	GLY	C-N-CA	-6.40	113.17	119.76
1	T	521	GLY	CA-C-N	-6.40	113.17	119.76
1	T	521	GLY	C-N-CA	-6.40	113.17	119.76
1	Q	521	GLY	CA-C-N	-6.39	113.18	119.76
1	Q	521	GLY	C-N-CA	-6.39	113.18	119.76
1	M	521	GLY	CA-C-N	-6.38	113.18	119.76
1	M	521	GLY	C-N-CA	-6.38	113.18	119.76
1	D	521	GLY	CA-C-N	-6.38	113.19	119.76
1	D	521	GLY	C-N-CA	-6.38	113.19	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	521	GLY	CA-C-N	-6.38	113.19	119.76
1	k	521	GLY	C-N-CA	-6.38	113.19	119.76
1	r	521	GLY	CA-C-N	-6.38	113.19	119.76
1	r	521	GLY	C-N-CA	-6.38	113.19	119.76
1	t	521	GLY	CA-C-N	-6.38	113.19	119.76
1	t	521	GLY	C-N-CA	-6.38	113.19	119.76
1	7	521	GLY	CA-C-N	-6.38	113.19	119.76
1	7	521	GLY	C-N-CA	-6.38	113.19	119.76
1	H	521	GLY	CA-C-N	-6.38	113.19	119.76
1	H	521	GLY	C-N-CA	-6.38	113.19	119.76
1	E	521	GLY	CA-C-N	-6.38	113.19	119.76
1	E	521	GLY	C-N-CA	-6.38	113.19	119.76
1	I	521	GLY	CA-C-N	-6.38	113.19	119.76
1	I	521	GLY	C-N-CA	-6.38	113.19	119.76
1	O	521	GLY	CA-C-N	-6.38	113.19	119.76
1	O	521	GLY	C-N-CA	-6.38	113.19	119.76
1	S	521	GLY	CA-C-N	-6.38	113.19	119.76
1	S	521	GLY	C-N-CA	-6.38	113.19	119.76
1	4	521	GLY	CA-C-N	-6.38	113.19	119.76
1	4	521	GLY	C-N-CA	-6.38	113.19	119.76
1	c	521	GLY	CA-C-N	-6.38	113.19	119.76
1	c	521	GLY	C-N-CA	-6.38	113.19	119.76
1	e	521	GLY	CA-C-N	-6.37	113.19	119.76
1	e	521	GLY	C-N-CA	-6.37	113.19	119.76
1	8	521	GLY	CA-C-N	-6.37	113.20	119.76
1	8	521	GLY	C-N-CA	-6.37	113.20	119.76
1	6	521	GLY	CA-C-N	-6.37	113.20	119.76
1	6	521	GLY	C-N-CA	-6.37	113.20	119.76
1	a	521	GLY	CA-C-N	-6.36	113.21	119.76
1	a	521	GLY	C-N-CA	-6.36	113.21	119.76
1	n	521	GLY	CA-C-N	-6.36	113.21	119.76
1	n	521	GLY	C-N-CA	-6.36	113.21	119.76
1	F	521	GLY	CA-C-N	-6.36	113.21	119.76
1	F	521	GLY	C-N-CA	-6.36	113.21	119.76
1	J	521	GLY	CA-C-N	-6.36	113.21	119.76
1	J	521	GLY	C-N-CA	-6.36	113.21	119.76
1	g	521	GLY	CA-C-N	-6.36	113.21	119.76
1	g	521	GLY	C-N-CA	-6.36	113.21	119.76
1	Z	521	GLY	CA-C-N	-6.36	113.21	119.76
1	Z	521	GLY	C-N-CA	-6.36	113.21	119.76
1	3	521	GLY	CA-C-N	-6.36	113.21	119.76
1	3	521	GLY	C-N-CA	-6.36	113.21	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	i	521	GLY	CA-C-N	-6.36	113.21	119.76
1	i	521	GLY	C-N-CA	-6.36	113.21	119.76

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4131	0	3885	134	0
1	2	4131	0	3885	130	0
1	3	4131	0	3885	133	0
1	4	4131	0	3885	133	0
1	5	4131	0	3885	130	0
1	6	4131	0	3885	202	0
1	7	4131	0	3885	131	0
1	8	4131	0	3885	131	0
1	A	4131	0	3885	132	0
1	B	4131	0	3885	130	0
1	C	4131	0	3885	131	0
1	D	4131	0	3885	133	0
1	E	4131	0	3885	128	0
1	F	4131	0	3885	132	0
1	G	4131	0	3885	134	0
1	H	4131	0	3885	130	0
1	I	4131	0	3885	129	0
1	J	4131	0	3885	128	0
1	K	4131	0	3885	131	0
1	L	4131	0	3885	132	0
1	M	4131	0	3885	135	0
1	N	4131	0	3885	131	0
1	O	4131	0	3885	151	0
1	P	4131	0	3885	130	0
1	Q	4131	0	3885	132	0
1	R	4131	0	3885	130	0
1	S	4131	0	3885	147	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	T	4131	0	3885	151	0
1	U	4131	0	3885	132	0
1	V	4131	0	3885	129	0
1	W	4131	0	3885	132	0
1	X	4131	0	3885	130	0
1	Y	4131	0	3885	128	0
1	Z	4131	0	3885	132	0
1	a	4131	0	3885	132	0
1	b	4131	0	3885	132	0
1	c	4131	0	3885	133	0
1	d	4131	0	3885	131	0
1	e	4131	0	3885	130	0
1	f	4131	0	3885	138	0
1	g	4131	0	3885	136	0
1	h	4131	0	3885	151	0
1	i	4131	0	3885	134	0
1	j	4131	0	3885	132	0
1	k	4131	0	3885	130	0
1	l	4131	0	3885	133	0
1	m	4131	0	3885	127	0
1	n	4131	0	3885	128	0
1	o	4131	0	3885	131	0
1	p	4131	0	3885	129	0
1	q	4131	0	3885	132	0
1	r	4131	0	3885	132	0
1	s	4131	0	3885	130	0
1	t	4131	0	3885	135	0
1	u	4131	0	3885	130	0
1	v	4131	0	3885	131	0
1	w	4131	0	3885	133	0
1	x	4131	0	3885	132	0
1	y	4131	0	3885	132	0
1	z	4131	0	3885	133	0
All	All	247860	0	233100	6454	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 13.

All (6454) 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:T:441:ASP:OD2	1:6:550:ARG:NH1	1.71	1.21
1:O:550:ARG:NH1	1:h:441:ASP:OD2	2.02	0.91
1:O:441:ASP:OD2	1:g:550:ARG:NH1	2.03	0.91
1:6:462:LYS:NZ	1:f:554:ASP:OD1	2.04	0.90
1:6:702:THR:HG22	1:h:700:GLN:HB2	1.55	0.88
1:6:296:ARG:NH2	1:h:690:GLU:OE1	2.08	0.87
1:X:550:ARG:NH1	1:4:441:ASP:OD2	2.07	0.87
1:Z:441:ASP:OD2	1:x:550:ARG:NH1	2.08	0.87
1:c:441:ASP:OD2	1:d:550:ARG:NH1	2.08	0.87
1:g:441:ASP:OD2	1:h:550:ARG:NH1	2.05	0.87
1:F:550:ARG:NH1	1:Q:441:ASP:OD2	2.08	0.87
1:3:550:ARG:NH1	1:j:441:ASP:OD2	2.08	0.87
1:o:441:ASP:OD2	1:p:550:ARG:NH1	2.07	0.86
1:K:441:ASP:OD2	1:l:550:ARG:NH1	2.09	0.86
1:B:550:ARG:NH1	1:L:441:ASP:OD2	2.07	0.86
1:H:550:ARG:NH1	1:Y:441:ASP:OD2	2.09	0.86
1:y:441:ASP:OD2	1:z:550:ARG:NH1	2.09	0.86
1:M:550:ARG:NH1	1:2:441:ASP:OD2	2.09	0.86
1:k:550:ARG:NH1	1:m:441:ASP:OD2	2.09	0.86
1:t:550:ARG:NH1	1:v:441:ASP:OD2	2.09	0.86
1:G:441:ASP:OD2	1:I:550:ARG:NH1	2.09	0.86
1:r:441:ASP:OD2	1:s:550:ARG:NH1	2.09	0.86
1:C:550:ARG:NH1	1:M:441:ASP:OD2	2.09	0.85
1:t:441:ASP:OD2	1:u:550:ARG:NH1	2.09	0.85
1:W:441:ASP:OD2	1:Y:550:ARG:NH1	2.09	0.85
1:l:441:ASP:OD2	1:m:550:ARG:NH1	2.09	0.85
1:5:441:ASP:OD2	1:b:550:ARG:NH1	2.09	0.85
1:D:550:ARG:NH1	1:P:441:ASP:OD2	2.09	0.85
1:a:550:ARG:NH1	1:b:441:ASP:OD2	2.09	0.85
1:n:441:ASP:OD2	1:o:550:ARG:NH1	2.08	0.85
1:N:441:ASP:OD2	1:P:550:ARG:NH1	2.09	0.85
1:R:550:ARG:NH1	1:U:441:ASP:OD2	2.09	0.85
1:y:550:ARG:NH1	1:7:441:ASP:OD2	2.09	0.85
1:J:441:ASP:OD2	1:L:550:ARG:NH1	2.08	0.85
1:K:550:ARG:NH1	1:8:441:ASP:OD2	2.09	0.85
1:S:441:ASP:OD2	1:U:550:ARG:NH1	2.09	0.85
1:Z:550:ARG:NH1	1:w:441:ASP:OD2	2.08	0.85
1:C:441:ASP:OD2	1:2:550:ARG:NH1	2.09	0.85
1:i:441:ASP:OD2	1:j:550:ARG:NH1	2.08	0.85
1:d:441:ASP:OD2	1:e:550:ARG:NH1	2.08	0.84
1:u:441:ASP:OD2	1:v:550:ARG:NH1	2.09	0.84
1:q:441:ASP:OD2	1:r:550:ARG:NH1	2.09	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:550:ARG:NH1	1:F:441:ASP:OD2	2.08	0.84
1:V:550:ARG:NH1	1:X:441:ASP:OD2	2.08	0.84
1:n:550:ARG:NH1	1:p:441:ASP:OD2	2.08	0.84
1:A:441:ASP:OD2	1:G:550:ARG:NH1	2.09	0.84
1:B:441:ASP:OD2	1:J:550:ARG:NH1	2.08	0.84
1:D:441:ASP:OD2	1:N:550:ARG:NH1	2.09	0.84
1:5:550:ARG:NH1	1:a:441:ASP:OD2	2.09	0.84
1:k:441:ASP:OD2	1:l:550:ARG:NH1	2.09	0.84
1:H:441:ASP:OD2	1:W:550:ARG:NH1	2.09	0.83
1:1:441:ASP:OD2	1:8:550:ARG:NH1	2.09	0.83
1:z:441:ASP:OD2	1:7:550:ARG:NH1	2.09	0.83
1:T:550:ARG:NH1	1:f:441:ASP:OD2	2.08	0.83
1:c:550:ARG:NH1	1:e:441:ASP:OD2	2.08	0.83
1:w:550:ARG:NH1	1:x:441:ASP:OD2	2.09	0.83
1:E:441:ASP:OD2	1:Q:550:ARG:NH1	2.08	0.83
1:R:441:ASP:OD2	1:S:550:ARG:NH1	2.09	0.83
1:A:550:ARG:NH1	1:I:441:ASP:OD2	2.09	0.83
1:3:441:ASP:OD2	1:i:550:ARG:NH1	2.08	0.83
1:q:550:ARG:NH1	1:s:441:ASP:OD2	2.09	0.83
1:V:441:ASP:OD2	1:4:550:ARG:NH1	2.08	0.82
1:6:581:ALA:O	1:f:485:ARG:HD2	1.83	0.78
1:S:373:MET:HE1	1:6:659:PRO:HG2	1.66	0.77
1:O:657:ASP:OD2	1:6:332:LYS:NZ	2.16	0.76
1:Q:262:ASN:HD22	1:Q:273:ALA:HA	1.51	0.76
1:c:262:ASN:HD22	1:c:273:ALA:HA	1.51	0.75
1:y:262:ASN:HD22	1:y:273:ALA:HA	1.51	0.75
1:8:262:ASN:HD22	1:8:273:ALA:HA	1.51	0.75
1:D:262:ASN:HD22	1:D:273:ALA:HA	1.51	0.75
1:E:262:ASN:HD22	1:E:273:ALA:HA	1.51	0.75
1:K:262:ASN:HD22	1:K:273:ALA:HA	1.51	0.75
1:a:262:ASN:HD22	1:a:273:ALA:HA	1.51	0.75
1:e:262:ASN:HD22	1:e:273:ALA:HA	1.51	0.75
1:7:262:ASN:HD22	1:7:273:ALA:HA	1.51	0.75
1:W:262:ASN:HD22	1:W:273:ALA:HA	1.51	0.75
1:z:262:ASN:HD22	1:z:273:ALA:HA	1.51	0.75
1:H:564:GLU:HB2	1:H:567:LYS:HE3	1.69	0.75
1:S:262:ASN:HD22	1:S:273:ALA:HA	1.51	0.75
1:V:564:GLU:HB2	1:V:567:LYS:HE3	1.69	0.75
1:X:262:ASN:HD22	1:X:273:ALA:HA	1.51	0.75
1:1:262:ASN:HD22	1:1:273:ALA:HA	1.51	0.75
1:2:564:GLU:HB2	1:2:567:LYS:HE3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:262:ASN:HD22	1:i:273:ALA:HA	1.51	0.75
1:i:564:GLU:HB2	1:i:567:LYS:HE3	1.69	0.75
1:k:564:GLU:HB2	1:k:567:LYS:HE3	1.69	0.75
1:l:262:ASN:HD22	1:l:273:ALA:HA	1.51	0.75
1:q:262:ASN:HD22	1:q:273:ALA:HA	1.51	0.75
1:w:564:GLU:HB2	1:w:567:LYS:HE3	1.69	0.75
1:7:564:GLU:HB2	1:7:567:LYS:HE3	1.69	0.75
1:J:262:ASN:HD22	1:J:273:ALA:HA	1.51	0.75
1:T:262:ASN:HD22	1:T:273:ALA:HA	1.52	0.75
1:1:564:GLU:HB2	1:1:567:LYS:HE3	1.69	0.75
1:g:262:ASN:HD22	1:g:273:ALA:HA	1.51	0.75
1:h:564:GLU:HB2	1:h:567:LYS:HE3	1.69	0.75
1:v:564:GLU:HB2	1:v:567:LYS:HE3	1.69	0.75
1:w:262:ASN:HD22	1:w:273:ALA:HA	1.51	0.75
1:A:262:ASN:HD22	1:A:273:ALA:HA	1.51	0.75
1:z:564:GLU:HB2	1:z:567:LYS:HE3	1.69	0.75
1:8:564:GLU:HB2	1:8:567:LYS:HE3	1.69	0.75
1:C:564:GLU:HB2	1:C:567:LYS:HE3	1.69	0.75
1:I:262:ASN:HD22	1:I:273:ALA:HA	1.51	0.75
1:d:564:GLU:HB2	1:d:567:LYS:HE3	1.69	0.75
1:n:262:ASN:HD22	1:n:273:ALA:HA	1.51	0.75
1:p:262:ASN:HD22	1:p:273:ALA:HA	1.51	0.75
1:u:564:GLU:HB2	1:u:567:LYS:HE3	1.69	0.75
1:B:262:ASN:HD22	1:B:273:ALA:HA	1.51	0.75
1:F:564:GLU:HB2	1:F:567:LYS:HE3	1.69	0.75
1:l:564:GLU:HB2	1:l:567:LYS:HE3	1.69	0.75
1:s:262:ASN:HD22	1:s:273:ALA:HA	1.51	0.75
1:G:564:GLU:HB2	1:G:567:LYS:HE3	1.69	0.75
1:R:564:GLU:HB2	1:R:567:LYS:HE3	1.69	0.75
1:W:564:GLU:HB2	1:W:567:LYS:HE3	1.69	0.75
1:X:564:GLU:HB2	1:X:567:LYS:HE3	1.69	0.75
1:f:564:GLU:HB2	1:f:567:LYS:HE3	1.69	0.75
1:g:564:GLU:HB2	1:g:567:LYS:HE3	1.69	0.75
1:j:262:ASN:HD22	1:j:273:ALA:HA	1.51	0.75
1:r:564:GLU:HB2	1:r:567:LYS:HE3	1.69	0.75
1:t:564:GLU:HB2	1:t:567:LYS:HE3	1.69	0.75
1:y:564:GLU:HB2	1:y:567:LYS:HE3	1.69	0.75
1:L:262:ASN:HD22	1:L:273:ALA:HA	1.51	0.74
1:L:564:GLU:HB2	1:L:567:LYS:HE3	1.69	0.74
1:h:262:ASN:HD22	1:h:273:ALA:HA	1.51	0.74
1:o:564:GLU:HB2	1:o:567:LYS:HE3	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:262:ASN:HD22	1:v:273:ALA:HA	1.51	0.74
1:K:564:GLU:HB2	1:K:567:LYS:HE3	1.69	0.74
1:M:564:GLU:HB2	1:M:567:LYS:HE3	1.69	0.74
1:Z:262:ASN:HD22	1:Z:273:ALA:HA	1.51	0.74
1:o:262:ASN:HD22	1:o:273:ALA:HA	1.51	0.74
1:O:564:GLU:HB2	1:O:567:LYS:HE3	1.69	0.74
1:P:564:GLU:HB2	1:P:567:LYS:HE3	1.69	0.74
1:V:262:ASN:HD22	1:V:273:ALA:HA	1.51	0.74
1:2:262:ASN:HD22	1:2:273:ALA:HA	1.51	0.74
1:4:564:GLU:HB2	1:4:567:LYS:HE3	1.69	0.74
1:b:564:GLU:HB2	1:b:567:LYS:HE3	1.69	0.74
1:T:476:ARG:HD2	1:6:509:TRP:HZ2	1.52	0.74
1:B:564:GLU:HB2	1:B:567:LYS:HE3	1.69	0.74
1:O:262:ASN:HD22	1:O:273:ALA:HA	1.51	0.74
1:S:375:PRO:HA	1:6:662:PHE:CD1	2.22	0.74
1:Y:564:GLU:HB2	1:Y:567:LYS:HE3	1.69	0.74
1:j:564:GLU:HB2	1:j:567:LYS:HE3	1.69	0.74
1:m:564:GLU:HB2	1:m:567:LYS:HE3	1.69	0.74
1:R:262:ASN:HD22	1:R:273:ALA:HA	1.51	0.74
1:S:564:GLU:HB2	1:S:567:LYS:HE3	1.69	0.74
1:T:564:GLU:HB2	1:T:567:LYS:HE3	1.69	0.74
1:Y:262:ASN:HD22	1:Y:273:ALA:HA	1.51	0.74
1:Z:564:GLU:HB2	1:Z:567:LYS:HE3	1.69	0.74
1:m:262:ASN:HD22	1:m:273:ALA:HA	1.51	0.74
1:p:564:GLU:HB2	1:p:567:LYS:HE3	1.69	0.74
1:S:362:GLY:HA2	1:6:662:PHE:HZ	1.51	0.74
1:3:262:ASN:HD22	1:3:273:ALA:HA	1.51	0.74
1:q:564:GLU:HB2	1:q:567:LYS:HE3	1.69	0.74
1:r:262:ASN:HD22	1:r:273:ALA:HA	1.51	0.74
1:A:564:GLU:HB2	1:A:567:LYS:HE3	1.69	0.73
1:F:262:ASN:HD22	1:F:273:ALA:HA	1.51	0.73
1:Q:564:GLU:HB2	1:Q:567:LYS:HE3	1.69	0.73
1:d:262:ASN:HD22	1:d:273:ALA:HA	1.51	0.73
1:x:262:ASN:HD22	1:x:273:ALA:HA	1.51	0.73
1:G:262:ASN:HD22	1:G:273:ALA:HA	1.51	0.73
1:H:262:ASN:HD22	1:H:273:ALA:HA	1.51	0.73
1:N:262:ASN:HD22	1:N:273:ALA:HA	1.51	0.73
1:4:262:ASN:HD22	1:4:273:ALA:HA	1.51	0.73
1:c:564:GLU:HB2	1:c:567:LYS:HE3	1.69	0.73
1:f:262:ASN:HD22	1:f:273:ALA:HA	1.51	0.73
1:t:262:ASN:HD22	1:t:273:ALA:HA	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:262:ASN:HD22	1:P:273:ALA:HA	1.51	0.73
1:T:599:GLN:OE1	1:6:598:ASN:ND2	2.18	0.73
1:5:564:GLU:HB2	1:5:567:LYS:HE3	1.69	0.73
1:C:262:ASN:HD22	1:C:273:ALA:HA	1.51	0.73
1:M:262:ASN:HD22	1:M:273:ALA:HA	1.51	0.73
1:N:564:GLU:HB2	1:N:567:LYS:HE3	1.69	0.73
1:5:262:ASN:HD22	1:5:273:ALA:HA	1.51	0.73
1:J:564:GLU:HB2	1:J:567:LYS:HE3	1.69	0.73
1:U:262:ASN:HD22	1:U:273:ALA:HA	1.51	0.73
1:k:262:ASN:HD22	1:k:273:ALA:HA	1.51	0.73
1:n:564:GLU:HB2	1:n:567:LYS:HE3	1.69	0.73
1:b:262:ASN:HD22	1:b:273:ALA:HA	1.51	0.73
1:6:262:ASN:HD22	1:6:273:ALA:HA	1.51	0.73
1:6:564:GLU:HB2	1:6:567:LYS:HE3	1.69	0.73
1:u:262:ASN:HD22	1:u:273:ALA:HA	1.51	0.73
1:E:564:GLU:HB2	1:E:567:LYS:HE3	1.69	0.73
1:I:564:GLU:HB2	1:I:567:LYS:HE3	1.69	0.73
1:U:564:GLU:HB2	1:U:567:LYS:HE3	1.69	0.73
1:e:564:GLU:HB2	1:e:567:LYS:HE3	1.69	0.72
1:D:564:GLU:HB2	1:D:567:LYS:HE3	1.69	0.72
1:s:564:GLU:HB2	1:s:567:LYS:HE3	1.69	0.72
1:3:564:GLU:HB2	1:3:567:LYS:HE3	1.69	0.72
1:a:564:GLU:HB2	1:a:567:LYS:HE3	1.69	0.72
1:x:564:GLU:HB2	1:x:567:LYS:HE3	1.69	0.72
1:S:676:THR:HG21	1:6:655:PRO:HD2	1.72	0.71
1:6:437:ASN:HB2	1:f:355:VAL:CG1	2.21	0.70
1:O:601:ILE:HB	1:h:601:ILE:HG22	1.73	0.69
1:D:716:ASN:ND2	1:D:718:GLU:OE1	2.26	0.69
1:G:716:ASN:ND2	1:G:718:GLU:OE1	2.26	0.69
1:I:716:ASN:ND2	1:I:718:GLU:OE1	2.26	0.69
1:R:716:ASN:ND2	1:R:718:GLU:OE1	2.26	0.69
1:X:716:ASN:ND2	1:X:718:GLU:OE1	2.26	0.69
1:a:716:ASN:ND2	1:a:718:GLU:OE1	2.26	0.69
1:f:716:ASN:ND2	1:f:718:GLU:OE1	2.26	0.69
1:g:716:ASN:ND2	1:g:718:GLU:OE1	2.26	0.69
1:r:716:ASN:ND2	1:r:718:GLU:OE1	2.26	0.69
1:s:716:ASN:ND2	1:s:718:GLU:OE1	2.26	0.69
1:K:716:ASN:ND2	1:K:718:GLU:OE1	2.26	0.69
1:m:716:ASN:ND2	1:m:718:GLU:OE1	2.26	0.69
1:T:601:ILE:HB	1:f:601:ILE:HG22	1.75	0.69
1:U:716:ASN:ND2	1:U:718:GLU:OE1	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:716:ASN:ND2	1:Y:718:GLU:OE1	2.26	0.69
1:2:716:ASN:ND2	1:2:718:GLU:OE1	2.26	0.69
1:5:716:ASN:ND2	1:5:718:GLU:OE1	2.26	0.69
1:6:716:ASN:ND2	1:6:718:GLU:OE1	2.26	0.69
1:y:716:ASN:ND2	1:y:718:GLU:OE1	2.26	0.69
1:B:716:ASN:ND2	1:B:718:GLU:OE1	2.26	0.68
1:N:716:ASN:ND2	1:N:718:GLU:OE1	2.26	0.68
1:Q:716:ASN:ND2	1:Q:718:GLU:OE1	2.26	0.68
1:Z:716:ASN:ND2	1:Z:718:GLU:OE1	2.26	0.68
1:j:716:ASN:ND2	1:j:718:GLU:OE1	2.26	0.68
1:p:716:ASN:ND2	1:p:718:GLU:OE1	2.26	0.68
1:v:716:ASN:ND2	1:v:718:GLU:OE1	2.26	0.68
1:F:716:ASN:ND2	1:F:718:GLU:OE1	2.26	0.68
1:P:716:ASN:ND2	1:P:718:GLU:OE1	2.26	0.68
1:c:716:ASN:ND2	1:c:718:GLU:OE1	2.26	0.68
1:d:716:ASN:ND2	1:d:718:GLU:OE1	2.26	0.68
1:t:716:ASN:ND2	1:t:718:GLU:OE1	2.26	0.68
1:E:716:ASN:ND2	1:E:718:GLU:OE1	2.26	0.68
1:H:716:ASN:ND2	1:H:718:GLU:OE1	2.26	0.68
1:M:716:ASN:ND2	1:M:718:GLU:OE1	2.26	0.68
1:b:716:ASN:ND2	1:b:718:GLU:OE1	2.26	0.68
1:e:716:ASN:ND2	1:e:718:GLU:OE1	2.26	0.68
1:o:716:ASN:ND2	1:o:718:GLU:OE1	2.26	0.68
1:W:716:ASN:ND2	1:W:718:GLU:OE1	2.26	0.68
1:k:716:ASN:ND2	1:k:718:GLU:OE1	2.26	0.68
1:l:716:ASN:ND2	1:l:718:GLU:OE1	2.26	0.68
1:x:716:ASN:ND2	1:x:718:GLU:OE1	2.26	0.68
1:C:716:ASN:ND2	1:C:718:GLU:OE1	2.26	0.68
1:L:716:ASN:ND2	1:L:718:GLU:OE1	2.26	0.68
1:n:716:ASN:ND2	1:n:718:GLU:OE1	2.26	0.68
1:8:716:ASN:ND2	1:8:718:GLU:OE1	2.26	0.68
1:J:716:ASN:ND2	1:J:718:GLU:OE1	2.26	0.68
1:O:476:ARG:HD2	1:g:509:TRP:HZ2	1.59	0.68
1:T:716:ASN:ND2	1:T:718:GLU:OE1	2.26	0.68
1:V:716:ASN:ND2	1:V:718:GLU:OE1	2.26	0.68
1:3:716:ASN:ND2	1:3:718:GLU:OE1	2.26	0.68
1:u:716:ASN:ND2	1:u:718:GLU:OE1	2.26	0.68
1:S:716:ASN:ND2	1:S:718:GLU:OE1	2.26	0.68
1:T:554:ASP:OD1	1:f:462:LYS:NZ	2.22	0.68
1:1:716:ASN:ND2	1:1:718:GLU:OE1	2.26	0.68
1:h:716:ASN:ND2	1:h:718:GLU:OE1	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:716:ASN:ND2	1:7:718:GLU:OE1	2.26	0.68
1:A:716:ASN:ND2	1:A:718:GLU:OE1	2.26	0.68
1:4:716:ASN:ND2	1:4:718:GLU:OE1	2.26	0.68
1:w:716:ASN:ND2	1:w:718:GLU:OE1	2.26	0.68
1:i:716:ASN:ND2	1:i:718:GLU:OE1	2.26	0.68
1:q:716:ASN:ND2	1:q:718:GLU:OE1	2.26	0.68
1:z:716:ASN:ND2	1:z:718:GLU:OE1	2.26	0.68
1:O:716:ASN:ND2	1:O:718:GLU:OE1	2.26	0.67
1:J:601:ILE:HG22	1:L:601:ILE:HB	1.76	0.67
1:g:462:LYS:NZ	1:h:554:ASP:OD1	2.25	0.67
1:6:698:GLU:HG2	1:h:296:ARG:NE	2.10	0.67
1:T:568:THR:O	1:6:511:LEU:HD11	1.95	0.67
1:n:601:ILE:HG22	1:o:601:ILE:HB	1.77	0.67
1:R:601:ILE:HG22	1:S:601:ILE:HB	1.77	0.67
1:T:475:GLY:HA2	1:6:519:ASN:HB2	1.75	0.67
1:Z:601:ILE:HG22	1:x:601:ILE:HB	1.77	0.67
1:N:462:LYS:NZ	1:P:554:ASP:OD1	2.27	0.67
1:T:485:ARG:HD2	1:f:581:ALA:O	1.95	0.67
1:3:601:ILE:HB	1:j:601:ILE:HG22	1.77	0.67
1:Z:554:ASP:OD1	1:w:462:LYS:NZ	2.27	0.67
1:c:601:ILE:HG22	1:d:601:ILE:HB	1.77	0.67
1:R:554:ASP:OD1	1:U:462:LYS:NZ	2.27	0.67
1:i:462:LYS:NZ	1:j:554:ASP:OD1	2.27	0.67
1:t:601:ILE:HB	1:v:601:ILE:HG22	1.77	0.67
1:K:554:ASP:OD1	1:8:462:LYS:NZ	2.27	0.67
1:M:601:ILE:HB	1:2:601:ILE:HG22	1.77	0.67
1:R:601:ILE:HB	1:U:601:ILE:HG22	1.77	0.67
1:S:542:ILE:HD12	1:S:560:ILE:HG12	1.77	0.66
1:A:553:VAL:HG13	1:A:557:LYS:HE2	1.78	0.66
1:F:601:ILE:HB	1:Q:601:ILE:HG22	1.77	0.66
1:K:542:ILE:HD12	1:K:560:ILE:HG12	1.77	0.66
1:K:553:VAL:HG13	1:K:557:LYS:HE2	1.78	0.66
1:T:542:ILE:HD12	1:T:560:ILE:HG12	1.77	0.66
1:2:553:VAL:HG13	1:2:557:LYS:HE2	1.78	0.66
1:v:553:VAL:HG13	1:v:557:LYS:HE2	1.78	0.66
1:C:601:ILE:HB	1:M:601:ILE:HG22	1.77	0.66
1:E:554:ASP:OD1	1:F:462:LYS:NZ	2.28	0.66
1:O:601:ILE:HG22	1:g:601:ILE:HB	1.76	0.66
1:V:601:ILE:HG22	1:4:601:ILE:HB	1.76	0.66
1:Y:542:ILE:HD12	1:Y:560:ILE:HG12	1.77	0.66
1:6:601:ILE:HG22	1:f:601:ILE:HB	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:703:SER:O	1:h:699:ILE:HG12	1.95	0.66
1:t:601:ILE:HG22	1:u:601:ILE:HB	1.77	0.66
1:y:542:ILE:HD12	1:y:560:ILE:HG12	1.78	0.66
1:y:553:VAL:HG13	1:y:557:LYS:HE2	1.78	0.66
1:I:553:VAL:HG13	1:I:557:LYS:HE2	1.78	0.66
1:J:553:VAL:HG13	1:J:557:LYS:HE2	1.78	0.66
1:O:542:ILE:HD12	1:O:560:ILE:HG12	1.77	0.66
1:P:542:ILE:HD12	1:P:560:ILE:HG12	1.77	0.66
1:S:601:ILE:HG22	1:U:601:ILE:HB	1.78	0.66
1:T:693:LYS:HE2	1:6:399:TYR:CD2	2.30	0.66
1:W:542:ILE:HD12	1:W:560:ILE:HG12	1.77	0.66
1:Z:553:VAL:HG13	1:Z:557:LYS:HE2	1.78	0.66
1:3:601:ILE:HG22	1:i:601:ILE:HB	1.77	0.66
1:b:542:ILE:HD12	1:b:560:ILE:HG12	1.77	0.66
1:f:542:ILE:HD12	1:f:560:ILE:HG12	1.77	0.66
1:j:553:VAL:HG13	1:j:557:LYS:HE2	1.78	0.66
1:l:542:ILE:HD12	1:l:560:ILE:HG12	1.77	0.66
1:m:542:ILE:HD12	1:m:560:ILE:HG12	1.77	0.66
1:n:553:VAL:HG13	1:n:557:LYS:HE2	1.78	0.66
1:A:542:ILE:HD12	1:A:560:ILE:HG12	1.77	0.66
1:C:553:VAL:HG13	1:C:557:LYS:HE2	1.78	0.66
1:N:542:ILE:HD12	1:N:560:ILE:HG12	1.77	0.66
1:R:542:ILE:HD12	1:R:560:ILE:HG12	1.77	0.66
1:S:702:THR:HG22	1:T:700:GLN:HB2	1.77	0.66
1:V:553:VAL:HG13	1:V:557:LYS:HE2	1.78	0.66
1:W:601:ILE:HG22	1:Y:601:ILE:HB	1.77	0.66
1:4:542:ILE:HD12	1:4:560:ILE:HG12	1.77	0.66
1:c:553:VAL:HG13	1:c:557:LYS:HE2	1.78	0.66
1:h:553:VAL:HG13	1:h:557:LYS:HE2	1.78	0.66
1:q:553:VAL:HG13	1:q:557:LYS:HE2	1.78	0.66
1:r:601:ILE:HG22	1:s:601:ILE:HB	1.77	0.66
1:u:553:VAL:HG13	1:u:557:LYS:HE2	1.78	0.66
1:w:601:ILE:HB	1:x:601:ILE:HG22	1.77	0.66
1:8:542:ILE:HD12	1:8:560:ILE:HG12	1.77	0.66
1:A:462:LYS:NZ	1:G:554:ASP:OD1	2.27	0.66
1:G:601:ILE:HG22	1:I:601:ILE:HB	1.77	0.66
1:L:233:GLN:HE21	1:L:240:ILE:HD12	1.61	0.66
1:5:542:ILE:HD12	1:5:560:ILE:HG12	1.77	0.66
1:l:601:ILE:HG22	1:m:601:ILE:HB	1.77	0.66
1:q:542:ILE:HD12	1:q:560:ILE:HG12	1.78	0.66
1:s:553:VAL:HG13	1:s:557:LYS:HE2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:462:LYS:NZ	1:N:554:ASP:OD1	2.27	0.66
1:E:601:ILE:HB	1:F:601:ILE:HG22	1.77	0.66
1:F:233:GLN:HE21	1:F:240:ILE:HD12	1.61	0.66
1:N:553:VAL:HG13	1:N:557:LYS:HE2	1.78	0.66
1:P:553:VAL:HG13	1:P:557:LYS:HE2	1.78	0.66
1:Q:553:VAL:HG13	1:Q:557:LYS:HE2	1.78	0.66
1:5:553:VAL:HG13	1:5:557:LYS:HE2	1.78	0.66
1:b:553:VAL:HG13	1:b:557:LYS:HE2	1.78	0.66
1:d:462:LYS:NZ	1:e:554:ASP:OD1	2.28	0.66
1:d:601:ILE:HG22	1:e:601:ILE:HB	1.77	0.66
1:o:233:GLN:HE21	1:o:240:ILE:HD12	1.61	0.66
1:7:542:ILE:HD12	1:7:560:ILE:HG12	1.78	0.66
1:F:542:ILE:HD12	1:F:560:ILE:HG12	1.77	0.66
1:X:601:ILE:HB	1:4:601:ILE:HG22	1.77	0.66
1:Y:553:VAL:HG13	1:Y:557:LYS:HE2	1.78	0.66
1:p:542:ILE:HD12	1:p:560:ILE:HG12	1.77	0.66
1:A:601:ILE:HB	1:I:601:ILE:HG22	1.77	0.66
1:A:601:ILE:HG22	1:G:601:ILE:HB	1.77	0.66
1:C:542:ILE:HD12	1:C:560:ILE:HG12	1.77	0.66
1:C:601:ILE:HG22	1:2:601:ILE:HB	1.77	0.66
1:M:233:GLN:HE21	1:M:240:ILE:HD12	1.61	0.66
1:N:601:ILE:HG22	1:P:601:ILE:HB	1.77	0.66
1:a:233:GLN:HE21	1:a:240:ILE:HD12	1.61	0.66
1:d:233:GLN:HE21	1:d:240:ILE:HD12	1.61	0.66
1:d:542:ILE:HD12	1:d:560:ILE:HG12	1.77	0.66
1:f:553:VAL:HG13	1:f:557:LYS:HE2	1.78	0.66
1:u:601:ILE:HG22	1:v:601:ILE:HB	1.77	0.66
1:y:233:GLN:HE21	1:y:240:ILE:HD12	1.61	0.66
1:B:542:ILE:HD12	1:B:560:ILE:HG12	1.77	0.66
1:D:233:GLN:HE21	1:D:240:ILE:HD12	1.61	0.66
1:D:554:ASP:OD1	1:P:462:LYS:NZ	2.27	0.66
1:D:601:ILE:HB	1:P:601:ILE:HG22	1.77	0.66
1:H:601:ILE:HB	1:Y:601:ILE:HG22	1.77	0.66
1:K:233:GLN:HE21	1:K:240:ILE:HD12	1.61	0.66
1:K:601:ILE:HB	1:8:601:ILE:HG22	1.77	0.66
1:R:553:VAL:HG13	1:R:557:LYS:HE2	1.78	0.66
1:3:542:ILE:HD12	1:3:560:ILE:HG12	1.78	0.66
1:5:554:ASP:OD1	1:a:462:LYS:NZ	2.27	0.66
1:a:554:ASP:OD1	1:b:462:LYS:NZ	2.27	0.66
1:a:601:ILE:HB	1:b:601:ILE:HG22	1.77	0.66
1:c:233:GLN:HE21	1:c:240:ILE:HD12	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:233:GLN:HE21	1:h:240:ILE:HD12	1.61	0.66
1:i:553:VAL:HG13	1:i:557:LYS:HE2	1.78	0.66
1:k:601:ILE:HG22	1:l:601:ILE:HB	1.77	0.66
1:m:233:GLN:HE21	1:m:240:ILE:HD12	1.61	0.66
1:o:553:VAL:HG13	1:o:557:LYS:HE2	1.78	0.66
1:q:462:LYS:NZ	1:r:554:ASP:OD1	2.27	0.66
1:t:233:GLN:HE21	1:t:240:ILE:HD12	1.61	0.66
1:u:542:ILE:HD12	1:u:560:ILE:HG12	1.77	0.66
1:w:553:VAL:HG13	1:w:557:LYS:HE2	1.78	0.66
1:x:542:ILE:HD12	1:x:560:ILE:HG12	1.77	0.66
1:y:601:ILE:HB	1:7:601:ILE:HG22	1.77	0.66
1:D:601:ILE:HG22	1:N:601:ILE:HB	1.77	0.65
1:E:553:VAL:HG13	1:E:557:LYS:HE2	1.78	0.65
1:H:601:ILE:HG22	1:W:601:ILE:HB	1.77	0.65
1:L:553:VAL:HG13	1:L:557:LYS:HE2	1.78	0.65
1:M:553:VAL:HG13	1:M:557:LYS:HE2	1.78	0.65
1:Q:233:GLN:HE21	1:Q:240:ILE:HD12	1.61	0.65
1:R:233:GLN:HE21	1:R:240:ILE:HD12	1.61	0.65
1:V:233:GLN:HE21	1:V:240:ILE:HD12	1.61	0.65
1:5:601:ILE:HG22	1:b:601:ILE:HB	1.77	0.65
1:5:601:ILE:HB	1:a:601:ILE:HG22	1.77	0.65
1:c:554:ASP:OD1	1:e:462:LYS:NZ	2.27	0.65
1:c:601:ILE:HB	1:e:601:ILE:HG22	1.77	0.65
1:e:553:VAL:HG13	1:e:557:LYS:HE2	1.78	0.65
1:g:601:ILE:HG22	1:h:601:ILE:HB	1.77	0.65
1:k:601:ILE:HB	1:m:601:ILE:HG22	1.77	0.65
1:m:553:VAL:HG13	1:m:557:LYS:HE2	1.78	0.65
1:q:601:ILE:HB	1:s:601:ILE:HG22	1.77	0.65
1:s:233:GLN:HE21	1:s:240:ILE:HD12	1.61	0.65
1:t:542:ILE:HD12	1:t:560:ILE:HG12	1.77	0.65
1:t:553:VAL:HG13	1:t:557:LYS:HE2	1.78	0.65
1:E:462:LYS:NZ	1:Q:554:ASP:OD1	2.27	0.65
1:M:542:ILE:HD12	1:M:560:ILE:HG12	1.77	0.65
1:Q:542:ILE:HD12	1:Q:560:ILE:HG12	1.77	0.65
1:W:553:VAL:HG13	1:W:557:LYS:HE2	1.78	0.65
1:Y:233:GLN:HE21	1:Y:240:ILE:HD12	1.61	0.65
1:1:553:VAL:HG13	1:1:557:LYS:HE2	1.78	0.65
1:5:233:GLN:HE21	1:5:240:ILE:HD12	1.61	0.65
1:f:233:GLN:HE21	1:f:240:ILE:HD12	1.61	0.65
1:w:542:ILE:HD12	1:w:560:ILE:HG12	1.77	0.65
1:E:601:ILE:HG22	1:Q:601:ILE:HB	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:233:GLN:HE21	1:N:240:ILE:HD12	1.61	0.65
1:O:509:TRP:HZ2	1:h:476:ARG:HD2	1.60	0.65
1:S:553:VAL:HG13	1:S:557:LYS:HE2	1.78	0.65
1:Z:462:LYS:NZ	1:x:554:ASP:OD1	2.27	0.65
1:c:462:LYS:NZ	1:d:554:ASP:OD1	2.27	0.65
1:g:233:GLN:HE21	1:g:240:ILE:HD12	1.61	0.65
1:g:553:VAL:HG13	1:g:557:LYS:HE2	1.78	0.65
1:i:542:ILE:HD12	1:i:560:ILE:HG12	1.78	0.65
1:u:233:GLN:HE21	1:u:240:ILE:HD12	1.61	0.65
1:z:553:VAL:HG13	1:z:557:LYS:HE2	1.78	0.65
1:G:553:VAL:HG13	1:G:557:LYS:HE2	1.78	0.65
1:H:233:GLN:HE21	1:H:240:ILE:HD12	1.61	0.65
1:I:233:GLN:HE21	1:I:240:ILE:HD12	1.61	0.65
1:O:233:GLN:HE21	1:O:240:ILE:HD12	1.61	0.65
1:T:553:VAL:HG13	1:T:557:LYS:HE2	1.78	0.65
1:V:542:ILE:HD12	1:V:560:ILE:HG12	1.77	0.65
1:V:601:ILE:HB	1:X:601:ILE:HG22	1.78	0.65
1:X:233:GLN:HE21	1:X:240:ILE:HD12	1.61	0.65
1:X:553:VAL:HG13	1:X:557:LYS:HE2	1.78	0.65
1:1:542:ILE:HD12	1:1:560:ILE:HG12	1.77	0.65
1:3:554:ASP:OD1	1:j:462:LYS:NZ	2.28	0.65
1:4:233:GLN:HE21	1:4:240:ILE:HD12	1.61	0.65
1:c:542:ILE:HD12	1:c:560:ILE:HG12	1.78	0.65
1:e:233:GLN:HE21	1:e:240:ILE:HD12	1.61	0.65
1:i:233:GLN:HE21	1:i:240:ILE:HD12	1.61	0.65
1:l:553:VAL:HG13	1:l:557:LYS:HE2	1.78	0.65
1:q:601:ILE:HG22	1:r:601:ILE:HB	1.77	0.65
1:w:233:GLN:HE21	1:w:240:ILE:HD12	1.61	0.65
1:8:233:GLN:HE21	1:8:240:ILE:HD12	1.61	0.65
1:C:233:GLN:HE21	1:C:240:ILE:HD12	1.61	0.65
1:G:542:ILE:HD12	1:G:560:ILE:HG12	1.78	0.65
1:X:542:ILE:HD12	1:X:560:ILE:HG12	1.77	0.65
1:Z:542:ILE:HD12	1:Z:560:ILE:HG12	1.78	0.65
1:6:437:ASN:HB2	1:f:355:VAL:HG11	1.77	0.65
1:6:702:THR:HG22	1:h:700:GLN:CB	2.27	0.65
1:g:497:ASN:OD1	1:g:498:ASN:N	2.30	0.65
1:g:542:ILE:HD12	1:g:560:ILE:HG12	1.77	0.65
1:i:601:ILE:HG22	1:j:601:ILE:HB	1.77	0.65
1:j:542:ILE:HD12	1:j:560:ILE:HG12	1.78	0.65
1:k:233:GLN:HE21	1:k:240:ILE:HD12	1.61	0.65
1:l:497:ASN:OD1	1:l:498:ASN:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:553:VAL:HG13	1:r:557:LYS:HE2	1.78	0.65
1:z:542:ILE:HD12	1:z:560:ILE:HG12	1.77	0.65
1:E:233:GLN:HE21	1:E:240:ILE:HD12	1.61	0.65
1:I:542:ILE:HD12	1:I:560:ILE:HG12	1.78	0.65
1:J:233:GLN:HE21	1:J:240:ILE:HD12	1.61	0.65
1:J:542:ILE:HD12	1:J:560:ILE:HG12	1.77	0.65
1:U:542:ILE:HD12	1:U:560:ILE:HG12	1.77	0.65
1:X:497:ASN:OD1	1:X:498:ASN:N	2.30	0.65
1:Z:601:ILE:HB	1:w:601:ILE:HG22	1.77	0.65
1:6:542:ILE:HD12	1:6:560:ILE:HG12	1.77	0.65
1:6:553:VAL:HG13	1:6:557:LYS:HE2	1.78	0.65
1:n:233:GLN:HE21	1:n:240:ILE:HD12	1.61	0.65
1:r:542:ILE:HD12	1:r:560:ILE:HG12	1.77	0.65
1:s:542:ILE:HD12	1:s:560:ILE:HG12	1.77	0.65
1:v:233:GLN:HE21	1:v:240:ILE:HD12	1.61	0.65
1:7:233:GLN:HE21	1:7:240:ILE:HD12	1.61	0.65
1:A:497:ASN:OD1	1:A:498:ASN:N	2.30	0.65
1:L:542:ILE:HD12	1:L:560:ILE:HG12	1.77	0.65
1:M:497:ASN:OD1	1:M:498:ASN:N	2.30	0.65
1:N:497:ASN:OD1	1:N:498:ASN:N	2.30	0.65
1:O:497:ASN:OD1	1:O:498:ASN:N	2.30	0.65
1:U:553:VAL:HG13	1:U:557:LYS:HE2	1.78	0.65
1:W:497:ASN:OD1	1:W:498:ASN:N	2.30	0.65
1:2:233:GLN:HE21	1:2:240:ILE:HD12	1.61	0.65
1:4:497:ASN:OD1	1:4:498:ASN:N	2.30	0.65
1:5:497:ASN:OD1	1:5:498:ASN:N	2.30	0.65
1:h:542:ILE:HD12	1:h:560:ILE:HG12	1.78	0.65
1:k:554:ASP:OD1	1:m:462:LYS:NZ	2.27	0.65
1:n:542:ILE:HD12	1:n:560:ILE:HG12	1.77	0.65
1:o:542:ILE:HD12	1:o:560:ILE:HG12	1.77	0.65
1:q:497:ASN:OD1	1:q:498:ASN:N	2.30	0.65
1:w:497:ASN:OD1	1:w:498:ASN:N	2.30	0.65
1:x:553:VAL:HG13	1:x:557:LYS:HE2	1.78	0.65
1:B:497:ASN:OD1	1:B:498:ASN:N	2.30	0.65
1:H:554:ASP:OD1	1:Y:462:LYS:NZ	2.27	0.65
1:P:497:ASN:OD1	1:P:498:ASN:N	2.30	0.65
1:S:233:GLN:HE21	1:S:240:ILE:HD12	1.61	0.65
1:T:233:GLN:HE21	1:T:240:ILE:HD12	1.61	0.65
1:Y:497:ASN:OD1	1:Y:498:ASN:N	2.30	0.65
1:1:601:ILE:HG22	1:8:601:ILE:HB	1.77	0.65
1:3:553:VAL:HG13	1:3:557:LYS:HE2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:542:ILE:HD12	1:a:560:ILE:HG12	1.77	0.65
1:b:497:ASN:OD1	1:b:498:ASN:N	2.30	0.65
1:i:497:ASN:OD1	1:i:498:ASN:N	2.30	0.65
1:k:542:ILE:HD12	1:k:560:ILE:HG12	1.77	0.65
1:p:497:ASN:OD1	1:p:498:ASN:N	2.30	0.65
1:s:497:ASN:OD1	1:s:498:ASN:N	2.30	0.65
1:t:497:ASN:OD1	1:t:498:ASN:N	2.30	0.65
1:B:233:GLN:HE21	1:B:240:ILE:HD12	1.61	0.65
1:D:542:ILE:HD12	1:D:560:ILE:HG12	1.77	0.65
1:I:497:ASN:OD1	1:I:498:ASN:N	2.30	0.65
1:2:497:ASN:OD1	1:2:498:ASN:N	2.30	0.65
1:m:497:ASN:OD1	1:m:498:ASN:N	2.30	0.65
1:p:233:GLN:HE21	1:p:240:ILE:HD12	1.61	0.65
1:q:312:ARG:NH1	1:q:416:GLU:OE2	2.30	0.65
1:v:542:ILE:HD12	1:v:560:ILE:HG12	1.77	0.65
1:z:601:ILE:HG22	1:7:601:ILE:HB	1.77	0.65
1:8:553:VAL:HG13	1:8:557:LYS:HE2	1.78	0.65
1:A:312:ARG:NH1	1:A:416:GLU:OE2	2.30	0.65
1:F:312:ARG:NH1	1:F:416:GLU:OE2	2.30	0.65
1:H:312:ARG:NH1	1:H:416:GLU:OE2	2.30	0.65
1:H:542:ILE:HD12	1:H:560:ILE:HG12	1.78	0.65
1:I:312:ARG:NH1	1:I:416:GLU:OE2	2.30	0.65
1:J:497:ASN:OD1	1:J:498:ASN:N	2.30	0.65
1:X:509:TRP:HZ2	1:4:476:ARG:HD2	1.62	0.65
1:3:497:ASN:OD1	1:3:498:ASN:N	2.30	0.65
1:c:497:ASN:OD1	1:c:498:ASN:N	2.30	0.65
1:d:312:ARG:NH1	1:d:416:GLU:OE2	2.30	0.65
1:j:497:ASN:OD1	1:j:498:ASN:N	2.30	0.65
1:k:312:ARG:NH1	1:k:416:GLU:OE2	2.30	0.65
1:n:497:ASN:OD1	1:n:498:ASN:N	2.30	0.65
1:o:601:ILE:HG22	1:p:601:ILE:HB	1.77	0.65
1:v:497:ASN:OD1	1:v:498:ASN:N	2.30	0.65
1:x:497:ASN:OD1	1:x:498:ASN:N	2.30	0.65
1:7:553:VAL:HG13	1:7:557:LYS:HE2	1.78	0.65
1:B:601:ILE:HB	1:L:601:ILE:HG22	1.77	0.64
1:F:553:VAL:HG13	1:F:557:LYS:HE2	1.78	0.64
1:Q:497:ASN:OD1	1:Q:498:ASN:N	2.30	0.64
1:Z:497:ASN:OD1	1:Z:498:ASN:N	2.30	0.64
1:2:542:ILE:HD12	1:2:560:ILE:HG12	1.78	0.64
1:b:233:GLN:HE21	1:b:240:ILE:HD12	1.61	0.64
1:s:312:ARG:NH1	1:s:416:GLU:OE2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:553:VAL:HG13	1:B:557:LYS:HE2	1.78	0.64
1:U:497:ASN:OD1	1:U:498:ASN:N	2.30	0.64
1:6:497:ASN:OD1	1:6:498:ASN:N	2.30	0.64
1:h:497:ASN:OD1	1:h:498:ASN:N	2.30	0.64
1:l:233:GLN:HE21	1:l:240:ILE:HD12	1.61	0.64
1:o:476:ARG:HD2	1:p:509:TRP:HZ2	1.62	0.64
1:B:509:TRP:HZ2	1:L:476:ARG:HD2	1.62	0.64
1:B:601:ILE:HG22	1:J:601:ILE:HB	1.78	0.64
1:P:312:ARG:NH1	1:P:416:GLU:OE2	2.30	0.64
1:R:312:ARG:NH1	1:R:416:GLU:OE2	2.30	0.64
1:S:296:ARG:NH2	1:T:690:GLU:OE1	2.30	0.64
1:W:233:GLN:HE21	1:W:240:ILE:HD12	1.61	0.64
1:Y:312:ARG:NH1	1:Y:416:GLU:OE2	2.30	0.64
1:3:312:ARG:NH1	1:3:416:GLU:OE2	2.30	0.64
1:n:312:ARG:NH1	1:n:416:GLU:OE2	2.30	0.64
1:p:553:VAL:HG13	1:p:557:LYS:HE2	1.78	0.64
1:x:312:ARG:NH1	1:x:416:GLU:OE2	2.30	0.64
1:7:497:ASN:OD1	1:7:498:ASN:N	2.30	0.64
1:B:312:ARG:NH1	1:B:416:GLU:OE2	2.30	0.64
1:D:497:ASN:OD1	1:D:498:ASN:N	2.30	0.64
1:E:497:ASN:OD1	1:E:498:ASN:N	2.30	0.64
1:J:312:ARG:NH1	1:J:416:GLU:OE2	2.30	0.64
1:K:601:ILE:HG22	1:1:601:ILE:HB	1.77	0.64
1:P:233:GLN:HE21	1:P:240:ILE:HD12	1.61	0.64
1:V:497:ASN:OD1	1:V:498:ASN:N	2.30	0.64
1:W:462:LYS:NZ	1:Y:554:ASP:OD1	2.27	0.64
1:a:497:ASN:OD1	1:a:498:ASN:N	2.30	0.64
1:b:312:ARG:NH1	1:b:416:GLU:OE2	2.30	0.64
1:d:553:VAL:HG13	1:d:557:LYS:HE2	1.78	0.64
1:e:497:ASN:OD1	1:e:498:ASN:N	2.30	0.64
1:f:312:ARG:NH1	1:f:416:GLU:OE2	2.30	0.64
1:p:312:ARG:NH1	1:p:416:GLU:OE2	2.30	0.64
1:r:497:ASN:OD1	1:r:498:ASN:N	2.30	0.64
1:x:233:GLN:HE21	1:x:240:ILE:HD12	1.61	0.64
1:y:601:ILE:HG22	1:z:601:ILE:HB	1.77	0.64
1:8:497:ASN:OD1	1:8:498:ASN:N	2.30	0.64
1:G:497:ASN:OD1	1:G:498:ASN:N	2.30	0.64
1:H:553:VAL:HG13	1:H:557:LYS:HE2	1.78	0.64
1:R:476:ARG:HD2	1:S:509:TRP:HZ2	1.62	0.64
1:1:233:GLN:HE21	1:1:240:ILE:HD12	1.61	0.64
1:3:233:GLN:HE21	1:3:240:ILE:HD12	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:312:ARG:NH1	1:i:416:GLU:OE2	2.30	0.64
1:m:312:ARG:NH1	1:m:416:GLU:OE2	2.30	0.64
1:n:601:ILE:HB	1:p:601:ILE:HG22	1.78	0.64
1:w:312:ARG:NH1	1:w:416:GLU:OE2	2.30	0.64
1:D:553:VAL:HG13	1:D:557:LYS:HE2	1.78	0.64
1:Q:312:ARG:NH1	1:Q:416:GLU:OE2	2.30	0.64
1:V:554:ASP:OD1	1:X:462:LYS:NZ	2.28	0.64
1:5:312:ARG:NH1	1:5:416:GLU:OE2	2.30	0.64
1:c:312:ARG:NH1	1:c:416:GLU:OE2	2.30	0.64
1:e:312:ARG:NH1	1:e:416:GLU:OE2	2.30	0.64
1:l:312:ARG:NH1	1:l:416:GLU:OE2	2.30	0.64
1:A:233:GLN:HE21	1:A:240:ILE:HD12	1.61	0.64
1:E:312:ARG:NH1	1:E:416:GLU:OE2	2.30	0.64
1:E:542:ILE:HD12	1:E:560:ILE:HG12	1.78	0.64
1:W:312:ARG:NH1	1:W:416:GLU:OE2	2.30	0.64
1:Z:312:ARG:NH1	1:Z:416:GLU:OE2	2.30	0.64
1:a:553:VAL:HG13	1:a:557:LYS:HE2	1.78	0.64
1:k:553:VAL:HG13	1:k:557:LYS:HE2	1.78	0.64
1:l:462:LYS:NZ	1:m:554:ASP:OD1	2.28	0.64
1:D:312:ARG:NH1	1:D:416:GLU:OE2	2.30	0.64
1:H:497:ASN:OD1	1:H:498:ASN:N	2.30	0.64
1:N:312:ARG:NH1	1:N:416:GLU:OE2	2.30	0.64
1:S:497:ASN:OD1	1:S:498:ASN:N	2.30	0.64
1:Z:233:GLN:HE21	1:Z:240:ILE:HD12	1.61	0.64
1:2:312:ARG:NH1	1:2:416:GLU:OE2	2.30	0.64
1:d:497:ASN:OD1	1:d:498:ASN:N	2.30	0.64
1:h:312:ARG:NH1	1:h:416:GLU:OE2	2.30	0.64
1:k:497:ASN:OD1	1:k:498:ASN:N	2.30	0.64
1:y:497:ASN:OD1	1:y:498:ASN:N	2.30	0.64
1:z:233:GLN:HE21	1:z:240:ILE:HD12	1.61	0.64
1:E:476:ARG:HD2	1:Q:509:TRP:HZ2	1.63	0.64
1:F:497:ASN:OD1	1:F:498:ASN:N	2.30	0.64
1:K:476:ARG:HD2	1:1:509:TRP:HZ2	1.63	0.64
1:L:312:ARG:NH1	1:L:416:GLU:OE2	2.30	0.64
1:V:312:ARG:NH1	1:V:416:GLU:OE2	2.30	0.64
1:Z:476:ARG:HD2	1:x:509:TRP:HZ2	1.63	0.64
1:2:570:ASN:HD21	1:2:607:TRP:HB2	1.63	0.64
1:3:509:TRP:HZ2	1:j:476:ARG:HD2	1.63	0.64
1:a:312:ARG:NH1	1:a:416:GLU:OE2	2.30	0.64
1:c:509:TRP:HZ2	1:e:476:ARG:HD2	1.63	0.64
1:e:542:ILE:HD12	1:e:560:ILE:HG12	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:312:ARG:NH1	1:j:416:GLU:OE2	2.30	0.64
1:q:233:GLN:HE21	1:q:240:ILE:HD12	1.61	0.64
1:v:570:ASN:HD21	1:v:607:TRP:HB2	1.63	0.64
1:y:476:ARG:HD2	1:z:509:TRP:HZ2	1.63	0.64
1:C:570:ASN:HD21	1:C:607:TRP:HB2	1.63	0.64
1:K:497:ASN:OD1	1:K:498:ASN:N	2.30	0.64
1:M:509:TRP:HZ2	1:2:476:ARG:HD2	1.63	0.64
1:S:312:ARG:NH1	1:S:416:GLU:OE2	2.30	0.64
1:T:312:ARG:NH1	1:T:416:GLU:OE2	2.30	0.64
1:T:497:ASN:OD1	1:T:498:ASN:N	2.30	0.64
1:1:570:ASN:HD21	1:1:607:TRP:HB2	1.63	0.64
1:6:312:ARG:NH1	1:6:416:GLU:OE2	2.30	0.64
1:g:312:ARG:NH1	1:g:416:GLU:OE2	2.30	0.64
1:o:312:ARG:NH1	1:o:416:GLU:OE2	2.30	0.64
1:r:233:GLN:HE21	1:r:240:ILE:HD12	1.61	0.64
1:u:497:ASN:OD1	1:u:498:ASN:N	2.30	0.64
1:u:570:ASN:HD21	1:u:607:TRP:HB2	1.63	0.64
1:v:312:ARG:NH1	1:v:416:GLU:OE2	2.30	0.64
1:z:497:ASN:OD1	1:z:498:ASN:N	2.30	0.64
1:z:570:ASN:HD21	1:z:607:TRP:HB2	1.63	0.64
1:A:509:TRP:HZ2	1:I:476:ARG:HD2	1.63	0.63
1:A:554:ASP:OD1	1:I:462:LYS:NZ	2.27	0.63
1:C:497:ASN:OD1	1:C:498:ASN:N	2.30	0.63
1:C:509:TRP:HZ2	1:M:476:ARG:HD2	1.64	0.63
1:K:312:ARG:NH1	1:K:416:GLU:OE2	2.30	0.63
1:O:658:PRO:HB3	1:6:373:MET:HE2	1.80	0.63
1:R:497:ASN:OD1	1:R:498:ASN:N	2.30	0.63
1:U:233:GLN:HE21	1:U:240:ILE:HD12	1.61	0.63
1:U:312:ARG:NH1	1:U:416:GLU:OE2	2.30	0.63
1:X:312:ARG:NH1	1:X:416:GLU:OE2	2.30	0.63
1:Z:509:TRP:HZ2	1:w:476:ARG:HD2	1.63	0.63
1:1:312:ARG:NH1	1:1:416:GLU:OE2	2.30	0.63
1:1:497:ASN:OD1	1:1:498:ASN:N	2.30	0.63
1:j:233:GLN:HE21	1:j:240:ILE:HD12	1.61	0.63
1:n:476:ARG:HD2	1:o:509:TRP:HZ2	1.63	0.63
1:q:509:TRP:HZ2	1:s:476:ARG:HD2	1.63	0.63
1:q:554:ASP:OD1	1:s:462:LYS:NZ	2.27	0.63
1:t:476:ARG:HD2	1:u:509:TRP:HZ2	1.64	0.63
1:t:509:TRP:HZ2	1:v:476:ARG:HD2	1.63	0.63
1:y:312:ARG:NH1	1:y:416:GLU:OE2	2.30	0.63
1:z:312:ARG:NH1	1:z:416:GLU:OE2	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:462:LYS:NZ	1:2:554:ASP:OD1	2.27	0.63
1:F:554:ASP:OD1	1:Q:462:LYS:NZ	2.27	0.63
1:G:233:GLN:HE21	1:G:240:ILE:HD12	1.61	0.63
1:J:476:ARG:HD2	1:L:509:TRP:HZ2	1.63	0.63
1:K:509:TRP:HZ2	1:8:476:ARG:HD2	1.63	0.63
1:Q:570:ASN:HD21	1:Q:607:TRP:HB2	1.63	0.63
1:R:570:ASN:HD21	1:R:607:TRP:HB2	1.63	0.63
1:f:497:ASN:OD1	1:f:498:ASN:N	2.30	0.63
1:i:476:ARG:HD2	1:j:509:TRP:HZ2	1.63	0.63
1:o:497:ASN:OD1	1:o:498:ASN:N	2.30	0.63
1:r:462:LYS:NZ	1:s:554:ASP:OD1	2.27	0.63
1:B:476:ARG:HD2	1:J:509:TRP:HZ2	1.63	0.63
1:G:462:LYS:NZ	1:I:554:ASP:OD1	2.27	0.63
1:K:462:LYS:NZ	1:1:554:ASP:OD1	2.27	0.63
1:K:570:ASN:HD21	1:K:607:TRP:HB2	1.63	0.63
1:O:312:ARG:NH1	1:O:416:GLU:OE2	2.30	0.63
1:O:553:VAL:HG13	1:O:557:LYS:HE2	1.78	0.63
1:S:570:ASN:HD21	1:S:607:TRP:HB2	1.63	0.63
1:6:233:GLN:HE21	1:6:240:ILE:HD12	1.61	0.63
1:c:570:ASN:HD21	1:c:607:TRP:HB2	1.63	0.63
1:f:570:ASN:HD21	1:f:607:TRP:HB2	1.63	0.63
1:n:509:TRP:HZ2	1:p:476:ARG:HD2	1.63	0.63
1:s:570:ASN:HD21	1:s:607:TRP:HB2	1.63	0.63
1:u:476:ARG:HD2	1:v:509:TRP:HZ2	1.63	0.63
1:y:509:TRP:HZ2	1:7:476:ARG:HD2	1.64	0.63
1:I:570:ASN:HD21	1:I:607:TRP:HB2	1.63	0.63
1:M:312:ARG:NH1	1:M:416:GLU:OE2	2.30	0.63
1:T:570:ASN:HD21	1:T:607:TRP:HB2	1.63	0.63
1:4:312:ARG:NH1	1:4:416:GLU:OE2	2.30	0.63
1:y:570:ASN:HD21	1:y:607:TRP:HB2	1.63	0.63
1:C:312:ARG:NH1	1:C:416:GLU:OE2	2.30	0.63
1:C:476:ARG:HD2	1:2:509:TRP:HZ2	1.63	0.63
1:L:497:ASN:OD1	1:L:498:ASN:N	2.30	0.63
1:4:553:VAL:HG13	1:4:557:LYS:HE2	1.78	0.63
1:q:570:ASN:HD21	1:q:607:TRP:HB2	1.63	0.63
1:r:312:ARG:NH1	1:r:416:GLU:OE2	2.30	0.63
1:t:554:ASP:OD1	1:v:462:LYS:NZ	2.27	0.63
1:u:312:ARG:NH1	1:u:416:GLU:OE2	2.30	0.63
1:u:462:LYS:NZ	1:v:554:ASP:OD1	2.27	0.63
1:A:570:ASN:HD21	1:A:607:TRP:HB2	1.63	0.63
1:H:570:ASN:HD21	1:H:607:TRP:HB2	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:570:ASN:HD21	1:P:607:TRP:HB2	1.63	0.63
1:S:449:LYS:HB3	1:S:462:LYS:HB2	1.81	0.63
1:S:462:LYS:NZ	1:U:554:ASP:OD1	2.28	0.63
1:3:476:ARG:HD2	1:i:509:TRP:HZ2	1.63	0.63
1:d:322:VAL:HG11	1:d:673:GLN:HE21	1.64	0.63
1:k:570:ASN:HD21	1:k:607:TRP:HB2	1.63	0.63
1:t:312:ARG:NH1	1:t:416:GLU:OE2	2.30	0.63
1:y:462:LYS:NZ	1:z:554:ASP:OD1	2.27	0.63
1:F:322:VAL:HG11	1:F:673:GLN:HE21	1.64	0.63
1:G:312:ARG:NH1	1:G:416:GLU:OE2	2.30	0.63
1:J:449:LYS:HB3	1:J:462:LYS:HB2	1.81	0.63
1:M:322:VAL:HG11	1:M:673:GLN:HE21	1.64	0.63
1:T:449:LYS:HB3	1:T:462:LYS:HB2	1.81	0.63
1:W:449:LYS:HB3	1:W:462:LYS:HB2	1.81	0.63
1:1:476:ARG:HD2	1:8:509:TRP:HZ2	1.63	0.63
1:6:570:ASN:HD21	1:6:607:TRP:HB2	1.63	0.63
1:d:570:ASN:HD21	1:d:607:TRP:HB2	1.63	0.63
1:h:322:VAL:HG11	1:h:673:GLN:HE21	1.64	0.63
1:l:449:LYS:HB3	1:l:462:LYS:HB2	1.81	0.63
1:r:570:ASN:HD21	1:r:607:TRP:HB2	1.63	0.63
1:v:449:LYS:HB3	1:v:462:LYS:HB2	1.81	0.63
1:w:509:TRP:HZ2	1:x:476:ARG:HD2	1.63	0.63
1:y:554:ASP:OD1	1:7:462:LYS:NZ	2.27	0.63
1:8:322:VAL:HG11	1:8:673:GLN:HE21	1.64	0.63
1:B:570:ASN:HD21	1:B:607:TRP:HB2	1.63	0.63
1:D:449:LYS:HB3	1:D:462:LYS:HB2	1.81	0.63
1:E:570:ASN:HD21	1:E:607:TRP:HB2	1.63	0.63
1:F:570:ASN:HD21	1:F:607:TRP:HB2	1.63	0.63
1:G:570:ASN:HD21	1:G:607:TRP:HB2	1.63	0.63
1:O:570:ASN:HD21	1:O:607:TRP:HB2	1.63	0.63
1:V:322:VAL:HG11	1:V:673:GLN:HE21	1.64	0.63
1:W:476:ARG:HD2	1:Y:509:TRP:HZ2	1.63	0.63
1:X:570:ASN:HD21	1:X:607:TRP:HB2	1.63	0.63
1:2:449:LYS:HB3	1:2:462:LYS:HB2	1.81	0.63
1:b:570:ASN:HD21	1:b:607:TRP:HB2	1.63	0.63
1:l:570:ASN:HD21	1:l:607:TRP:HB2	1.63	0.63
1:n:449:LYS:HB3	1:n:462:LYS:HB2	1.81	0.63
1:p:449:LYS:HB3	1:p:462:LYS:HB2	1.81	0.63
1:t:322:VAL:HG11	1:t:673:GLN:HE21	1.64	0.63
1:w:570:ASN:HD21	1:w:607:TRP:HB2	1.63	0.63
1:7:322:VAL:HG11	1:7:673:GLN:HE21	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:312:ARG:NH1	1:8:416:GLU:OE2	2.30	0.63
1:A:322:VAL:HG11	1:A:673:GLN:HE21	1.64	0.63
1:A:449:LYS:HB3	1:A:462:LYS:HB2	1.81	0.63
1:B:449:LYS:HB3	1:B:462:LYS:HB2	1.81	0.63
1:C:449:LYS:HB3	1:C:462:LYS:HB2	1.81	0.63
1:D:476:ARG:HD2	1:N:509:TRP:HZ2	1.63	0.63
1:D:570:ASN:HD21	1:D:607:TRP:HB2	1.63	0.63
1:I:322:VAL:HG11	1:I:673:GLN:HE21	1.64	0.63
1:M:554:ASP:OD1	1:2:462:LYS:NZ	2.27	0.63
1:O:554:ASP:OD1	1:h:462:LYS:NZ	2.30	0.63
1:U:570:ASN:HD21	1:U:607:TRP:HB2	1.63	0.63
1:V:476:ARG:HD2	1:4:509:TRP:HZ2	1.63	0.63
1:W:570:ASN:HD21	1:W:607:TRP:HB2	1.63	0.63
1:Z:322:VAL:HG11	1:Z:673:GLN:HE21	1.64	0.63
1:5:322:VAL:HG11	1:5:673:GLN:HE21	1.64	0.63
1:5:509:TRP:HZ2	1:a:476:ARG:HD2	1.64	0.63
1:a:449:LYS:HB3	1:a:462:LYS:HB2	1.81	0.63
1:i:570:ASN:HD21	1:i:607:TRP:HB2	1.63	0.63
1:j:322:VAL:HG11	1:j:673:GLN:HE21	1.64	0.63
1:k:476:ARG:HD2	1:l:509:TRP:HZ2	1.63	0.63
1:l:476:ARG:HD2	1:m:509:TRP:HZ2	1.63	0.63
1:p:570:ASN:HD21	1:p:607:TRP:HB2	1.63	0.63
1:r:476:ARG:HD2	1:s:509:TRP:HZ2	1.64	0.63
1:s:322:VAL:HG11	1:s:673:GLN:HE21	1.64	0.63
1:u:449:LYS:HB3	1:u:462:LYS:HB2	1.81	0.63
1:z:476:ARG:HD2	1:7:509:TRP:HZ2	1.63	0.63
1:7:312:ARG:NH1	1:7:416:GLU:OE2	2.30	0.63
1:G:476:ARG:HD2	1:I:509:TRP:HZ2	1.64	0.62
1:H:476:ARG:HD2	1:W:509:TRP:HZ2	1.64	0.62
1:N:322:VAL:HG11	1:N:673:GLN:HE21	1.64	0.62
1:V:449:LYS:HB3	1:V:462:LYS:HB2	1.81	0.62
1:V:570:ASN:HD21	1:V:607:TRP:HB2	1.63	0.62
1:Y:449:LYS:HB3	1:Y:462:LYS:HB2	1.81	0.62
1:2:322:VAL:HG11	1:2:673:GLN:HE21	1.64	0.62
1:e:570:ASN:HD21	1:e:607:TRP:HB2	1.63	0.62
1:g:570:ASN:HD21	1:g:607:TRP:HB2	1.63	0.62
1:h:570:ASN:HD21	1:h:607:TRP:HB2	1.63	0.62
1:q:449:LYS:HB3	1:q:462:LYS:HB2	1.81	0.62
1:x:449:LYS:HB3	1:x:462:LYS:HB2	1.81	0.62
1:I:449:LYS:HB3	1:I:462:LYS:HB2	1.81	0.62
1:3:449:LYS:HB3	1:3:462:LYS:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:570:ASN:HD21	1:4:607:TRP:HB2	1.63	0.62
1:5:570:ASN:HD21	1:5:607:TRP:HB2	1.63	0.62
1:a:570:ASN:HD21	1:a:607:TRP:HB2	1.63	0.62
1:h:449:LYS:HB3	1:h:462:LYS:HB2	1.81	0.62
1:m:449:LYS:HB3	1:m:462:LYS:HB2	1.81	0.62
1:q:322:VAL:HG11	1:q:673:GLN:HE21	1.64	0.62
1:s:449:LYS:HB3	1:s:462:LYS:HB2	1.81	0.62
1:v:322:VAL:HG11	1:v:673:GLN:HE21	1.64	0.62
1:A:476:ARG:HD2	1:G:509:TRP:HZ2	1.63	0.62
1:R:509:TRP:HZ2	1:U:476:ARG:HD2	1.63	0.62
1:q:476:ARG:HD2	1:r:509:TRP:HZ2	1.63	0.62
1:D:509:TRP:HZ2	1:P:476:ARG:HD2	1.63	0.62
1:L:570:ASN:HD21	1:L:607:TRP:HB2	1.63	0.62
1:M:449:LYS:HB3	1:M:462:LYS:HB2	1.81	0.62
1:N:570:ASN:HD21	1:N:607:TRP:HB2	1.63	0.62
1:a:509:TRP:HZ2	1:b:476:ARG:HD2	1.63	0.62
1:t:449:LYS:HB3	1:t:462:LYS:HB2	1.81	0.62
1:x:570:ASN:HD21	1:x:607:TRP:HB2	1.63	0.62
1:D:322:VAL:HG11	1:D:673:GLN:HE21	1.64	0.62
1:E:509:TRP:HZ2	1:F:476:ARG:HD2	1.63	0.62
1:L:322:VAL:HG11	1:L:673:GLN:HE21	1.64	0.62
1:L:449:LYS:HB3	1:L:462:LYS:HB2	1.81	0.62
1:1:462:LYS:NZ	1:8:554:ASP:OD1	2.27	0.62
1:d:476:ARG:HD2	1:e:509:TRP:HZ2	1.63	0.62
1:o:570:ASN:HD21	1:o:607:TRP:HB2	1.63	0.62
1:F:509:TRP:HZ2	1:Q:476:ARG:HD2	1.63	0.62
1:3:462:LYS:NZ	1:i:554:ASP:OD1	2.28	0.62
1:3:570:ASN:HD21	1:3:607:TRP:HB2	1.63	0.62
1:a:322:VAL:HG11	1:a:673:GLN:HE21	1.64	0.62
1:m:322:VAL:HG11	1:m:673:GLN:HE21	1.64	0.62
1:n:570:ASN:HD21	1:n:607:TRP:HB2	1.63	0.62
1:o:449:LYS:HB3	1:o:462:LYS:HB2	1.81	0.62
1:7:449:LYS:HB3	1:7:462:LYS:HB2	1.81	0.62
1:8:449:LYS:HB3	1:8:462:LYS:HB2	1.81	0.62
1:K:322:VAL:HG11	1:K:673:GLN:HE21	1.64	0.62
1:P:449:LYS:HB3	1:P:462:LYS:HB2	1.81	0.62
1:V:462:LYS:NZ	1:4:554:ASP:OD1	2.29	0.62
1:X:322:VAL:HG11	1:X:673:GLN:HE21	1.64	0.62
1:6:449:LYS:HB3	1:6:462:LYS:HB2	1.81	0.62
1:6:702:THR:CG2	1:h:700:GLN:HB2	2.29	0.62
1:c:476:ARG:HD2	1:d:509:TRP:HZ2	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:322:VAL:HG11	1:o:673:GLN:HE21	1.64	0.62
1:w:554:ASP:OD1	1:x:462:LYS:NZ	2.27	0.62
1:y:322:VAL:HG11	1:y:673:GLN:HE21	1.64	0.62
1:7:570:ASN:HD21	1:7:607:TRP:HB2	1.63	0.62
1:G:322:VAL:HG11	1:G:673:GLN:HE21	1.64	0.62
1:J:570:ASN:HD21	1:J:607:TRP:HB2	1.63	0.62
1:U:449:LYS:HB3	1:U:462:LYS:HB2	1.81	0.62
1:Y:322:VAL:HG11	1:Y:673:GLN:HE21	1.64	0.62
1:b:322:VAL:HG11	1:b:673:GLN:HE21	1.64	0.62
1:b:449:LYS:HB3	1:b:462:LYS:HB2	1.81	0.62
1:i:322:VAL:HG11	1:i:673:GLN:HE21	1.64	0.62
1:j:570:ASN:HD21	1:j:607:TRP:HB2	1.63	0.62
1:k:449:LYS:HB3	1:k:462:LYS:HB2	1.81	0.62
1:z:462:LYS:NZ	1:7:554:ASP:OD1	2.27	0.62
1:H:449:LYS:HB3	1:H:462:LYS:HB2	1.81	0.62
1:Q:322:VAL:HG11	1:Q:673:GLN:HE21	1.64	0.62
1:R:322:VAL:HG11	1:R:673:GLN:HE21	1.64	0.62
1:3:322:VAL:HG11	1:3:673:GLN:HE21	1.64	0.62
1:c:322:VAL:HG11	1:c:673:GLN:HE21	1.64	0.62
1:g:322:VAL:HG11	1:g:673:GLN:HE21	1.64	0.62
1:g:581:ALA:O	1:h:485:ARG:HD2	2.00	0.62
1:m:570:ASN:HD21	1:m:607:TRP:HB2	1.63	0.62
1:r:322:VAL:HG11	1:r:673:GLN:HE21	1.64	0.62
1:8:570:ASN:HD21	1:8:607:TRP:HB2	1.63	0.62
1:F:449:LYS:HB3	1:F:462:LYS:HB2	1.81	0.62
1:N:702:THR:HG22	1:O:700:GLN:HB2	1.82	0.62
1:P:322:VAL:HG11	1:P:673:GLN:HE21	1.64	0.62
1:T:475:GLY:HA2	1:6:519:ASN:CB	2.30	0.62
1:W:322:VAL:HG11	1:W:673:GLN:HE21	1.64	0.62
1:d:449:LYS:HB3	1:d:462:LYS:HB2	1.81	0.62
1:w:322:VAL:HG11	1:w:673:GLN:HE21	1.64	0.62
1:x:322:VAL:HG11	1:x:673:GLN:HE21	1.64	0.62
1:z:322:VAL:HG11	1:z:673:GLN:HE21	1.64	0.62
1:E:449:LYS:HB3	1:E:462:LYS:HB2	1.81	0.61
1:E:495:GLN:OE1	1:E:533:ARG:NH1	2.33	0.61
1:H:509:TRP:HZ2	1:Y:476:ARG:HD2	1.63	0.61
1:O:485:ARG:HD2	1:h:581:ALA:O	2.00	0.61
1:Y:570:ASN:HD21	1:Y:607:TRP:HB2	1.63	0.61
1:Z:449:LYS:HB3	1:Z:462:LYS:HB2	1.81	0.61
1:Z:570:ASN:HD21	1:Z:607:TRP:HB2	1.63	0.61
1:2:495:GLN:OE1	1:2:533:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:322:VAL:HG11	1:4:673:GLN:HE21	1.64	0.61
1:c:702:THR:HG22	1:f:700:GLN:HB2	1.82	0.61
1:e:495:GLN:OE1	1:e:533:ARG:NH1	2.33	0.61
1:k:509:TRP:HZ2	1:m:476:ARG:HD2	1.63	0.61
1:v:495:GLN:OE1	1:v:533:ARG:NH1	2.33	0.61
1:7:495:GLN:OE1	1:7:533:ARG:NH1	2.34	0.61
1:B:462:LYS:NZ	1:J:554:ASP:OD1	2.28	0.61
1:G:449:LYS:HB3	1:G:462:LYS:HB2	1.81	0.61
1:N:476:ARG:HD2	1:P:509:TRP:HZ2	1.63	0.61
1:O:322:VAL:HG11	1:O:673:GLN:HE21	1.64	0.61
1:P:495:GLN:OE1	1:P:533:ARG:NH1	2.33	0.61
1:R:449:LYS:HB3	1:R:462:LYS:HB2	1.81	0.61
1:T:322:VAL:HG11	1:T:673:GLN:HE21	1.64	0.61
1:1:322:VAL:HG11	1:1:673:GLN:HE21	1.64	0.61
1:6:322:VAL:HG11	1:6:673:GLN:HE21	1.64	0.61
1:b:495:GLN:OE1	1:b:533:ARG:NH1	2.33	0.61
1:f:322:VAL:HG11	1:f:673:GLN:HE21	1.64	0.61
1:f:449:LYS:HB3	1:f:462:LYS:HB2	1.81	0.61
1:n:322:VAL:HG11	1:n:673:GLN:HE21	1.64	0.61
1:8:495:GLN:OE1	1:8:533:ARG:NH1	2.34	0.61
1:C:322:VAL:HG11	1:C:673:GLN:HE21	1.64	0.61
1:J:322:VAL:HG11	1:J:673:GLN:HE21	1.64	0.61
1:Q:449:LYS:HB3	1:Q:462:LYS:HB2	1.81	0.61
1:S:322:VAL:HG11	1:S:673:GLN:HE21	1.64	0.61
1:T:509:TRP:HZ2	1:f:476:ARG:HD2	1.65	0.61
1:U:495:GLN:OE1	1:U:533:ARG:NH1	2.33	0.61
1:c:296:ARG:NH2	1:f:690:GLU:OE1	2.33	0.61
1:c:449:LYS:HB3	1:c:462:LYS:HB2	1.81	0.61
1:e:449:LYS:HB3	1:e:462:LYS:HB2	1.81	0.61
1:j:449:LYS:HB3	1:j:462:LYS:HB2	1.81	0.61
1:l:322:VAL:HG11	1:l:673:GLN:HE21	1.64	0.61
1:p:322:VAL:HG11	1:p:673:GLN:HE21	1.64	0.61
1:r:449:LYS:HB3	1:r:462:LYS:HB2	1.81	0.61
1:t:570:ASN:HD21	1:t:607:TRP:HB2	1.63	0.61
1:M:570:ASN:HD21	1:M:607:TRP:HB2	1.63	0.61
1:N:296:ARG:NH2	1:O:690:GLU:OE1	2.33	0.61
1:5:476:ARG:HD2	1:b:509:TRP:HZ2	1.63	0.61
1:6:495:GLN:OE1	1:6:533:ARG:NH1	2.33	0.61
1:q:495:GLN:OE1	1:q:533:ARG:NH1	2.33	0.61
1:t:462:LYS:NZ	1:u:554:ASP:OD1	2.27	0.61
1:u:322:VAL:HG11	1:u:673:GLN:HE21	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:449:LYS:HB3	1:z:462:LYS:HB2	1.81	0.61
1:A:495:GLN:OE1	1:A:533:ARG:NH1	2.33	0.61
1:B:322:VAL:HG11	1:B:673:GLN:HE21	1.64	0.61
1:C:554:ASP:OD1	1:M:462:LYS:NZ	2.27	0.61
1:H:495:GLN:OE1	1:H:533:ARG:NH1	2.33	0.61
1:O:495:GLN:OE1	1:O:533:ARG:NH1	2.34	0.61
1:S:476:ARG:HD2	1:U:509:TRP:HZ2	1.63	0.61
1:U:322:VAL:HG11	1:U:673:GLN:HE21	1.64	0.61
1:1:449:LYS:HB3	1:1:462:LYS:HB2	1.81	0.61
1:4:495:GLN:OE1	1:4:533:ARG:NH1	2.33	0.61
1:n:554:ASP:OD1	1:p:462:LYS:NZ	2.28	0.61
1:w:449:LYS:HB3	1:w:462:LYS:HB2	1.81	0.61
1:B:690:GLU:OE1	1:I:296:ARG:NH2	2.34	0.61
1:C:495:GLN:OE1	1:C:533:ARG:NH1	2.33	0.61
1:H:322:VAL:HG11	1:H:673:GLN:HE21	1.64	0.61
1:L:495:GLN:OE1	1:L:533:ARG:NH1	2.34	0.61
1:O:449:LYS:HB3	1:O:462:LYS:HB2	1.81	0.61
1:Z:495:GLN:OE1	1:Z:533:ARG:NH1	2.33	0.61
1:j:495:GLN:OE1	1:j:533:ARG:NH1	2.33	0.61
1:k:495:GLN:OE1	1:k:533:ARG:NH1	2.33	0.61
1:n:462:LYS:NZ	1:o:554:ASP:OD1	2.29	0.61
1:u:495:GLN:OE1	1:u:533:ARG:NH1	2.33	0.61
1:J:462:LYS:NZ	1:L:554:ASP:OD1	2.29	0.61
1:4:449:LYS:HB3	1:4:462:LYS:HB2	1.81	0.61
1:4:702:THR:HG22	1:5:700:GLN:HB2	1.83	0.61
1:i:449:LYS:HB3	1:i:462:LYS:HB2	1.81	0.61
1:k:322:VAL:HG11	1:k:673:GLN:HE21	1.64	0.61
1:o:495:GLN:OE1	1:o:533:ARG:NH1	2.34	0.61
1:y:449:LYS:HB3	1:y:462:LYS:HB2	1.81	0.61
1:B:554:ASP:OD1	1:L:462:LYS:NZ	2.30	0.61
1:E:322:VAL:HG11	1:E:673:GLN:HE21	1.64	0.61
1:M:495:GLN:OE1	1:M:533:ARG:NH1	2.34	0.61
1:O:339:THR:CG2	1:6:336:ASN:HD21	2.14	0.61
1:R:495:GLN:OE1	1:R:533:ARG:NH1	2.33	0.61
1:S:495:GLN:OE1	1:S:533:ARG:NH1	2.33	0.61
1:T:495:GLN:OE1	1:T:533:ARG:NH1	2.34	0.61
1:T:693:LYS:HG2	1:6:400:PHE:CZ	2.36	0.61
1:W:495:GLN:OE1	1:W:533:ARG:NH1	2.33	0.61
1:Y:296:ARG:NH2	1:Z:690:GLU:OE1	2.34	0.61
1:e:322:VAL:HG11	1:e:673:GLN:HE21	1.64	0.61
1:l:495:GLN:OE1	1:l:533:ARG:NH1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:462:LYS:NZ	1:p:554:ASP:OD1	2.30	0.61
1:p:690:GLU:OE1	1:s:296:ARG:NH2	2.34	0.61
1:J:700:GLN:HB2	1:K:702:THR:HG22	1.83	0.61
1:K:449:LYS:HB3	1:K:462:LYS:HB2	1.81	0.61
1:X:495:GLN:OE1	1:X:533:ARG:NH1	2.33	0.61
1:g:495:GLN:OE1	1:g:533:ARG:NH1	2.33	0.61
1:l:225:SER:HB2	1:l:319:ASN:H	1.66	0.61
1:t:495:GLN:OE1	1:t:533:ARG:NH1	2.34	0.61
1:P:225:SER:HB2	1:P:319:ASN:H	1.66	0.61
1:Q:700:GLN:HB2	1:R:702:THR:HG22	1.83	0.61
1:S:225:SER:HB2	1:S:319:ASN:H	1.66	0.61
1:T:225:SER:HB2	1:T:319:ASN:H	1.66	0.61
1:U:296:ARG:NH2	1:V:690:GLU:OE1	2.34	0.61
1:V:225:SER:HB2	1:V:319:ASN:H	1.66	0.61
1:W:225:SER:HB2	1:W:319:ASN:H	1.66	0.61
1:f:495:GLN:OE1	1:f:533:ARG:NH1	2.34	0.61
1:g:449:LYS:HB3	1:g:462:LYS:HB2	1.81	0.61
1:n:700:GLN:HB2	1:y:702:THR:HG22	1.83	0.61
1:q:225:SER:HB2	1:q:319:ASN:H	1.66	0.61
1:A:225:SER:HB2	1:A:319:ASN:H	1.66	0.60
1:O:225:SER:HB2	1:O:319:ASN:H	1.66	0.60
1:U:690:GLU:OE1	1:V:296:ARG:NH2	2.34	0.60
1:V:509:TRP:HZ2	1:X:476:ARG:HD2	1.64	0.60
1:X:449:LYS:HB3	1:X:462:LYS:HB2	1.81	0.60
1:2:702:THR:HG22	1:3:700:GLN:HB2	1.83	0.60
1:4:225:SER:HB2	1:4:319:ASN:H	1.66	0.60
1:5:449:LYS:HB3	1:5:462:LYS:HB2	1.81	0.60
1:b:225:SER:HB2	1:b:319:ASN:H	1.66	0.60
1:d:225:SER:HB2	1:d:319:ASN:H	1.66	0.60
1:i:225:SER:HB2	1:i:319:ASN:H	1.66	0.60
1:j:690:GLU:OE1	1:m:296:ARG:NH2	2.34	0.60
1:t:225:SER:HB2	1:t:319:ASN:H	1.66	0.60
1:v:702:THR:HG22	1:x:700:GLN:HB2	1.83	0.60
1:w:225:SER:HB2	1:w:319:ASN:H	1.66	0.60
1:B:495:GLN:OE1	1:B:533:ARG:NH1	2.33	0.60
1:F:225:SER:HB2	1:F:319:ASN:H	1.66	0.60
1:M:225:SER:HB2	1:M:319:ASN:H	1.66	0.60
1:Q:495:GLN:OE1	1:Q:533:ARG:NH1	2.34	0.60
1:U:702:THR:HG22	1:V:700:GLN:HB2	1.83	0.60
1:Y:702:THR:HG22	1:Z:700:GLN:HB2	1.83	0.60
1:a:690:GLU:OE1	1:t:296:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:690:GLU:OE1	1:q:296:ARG:NH2	2.34	0.60
1:f:225:SER:HB2	1:f:319:ASN:H	1.66	0.60
1:g:476:ARG:HD2	1:h:509:TRP:HZ2	1.64	0.60
1:h:225:SER:HB2	1:h:319:ASN:H	1.66	0.60
1:v:690:GLU:OE1	1:x:296:ARG:NH2	2.35	0.60
1:A:296:ARG:NH2	1:F:690:GLU:OE1	2.34	0.60
1:D:690:GLU:OE1	1:M:296:ARG:NH2	2.34	0.60
1:H:462:LYS:NZ	1:W:554:ASP:OD1	2.27	0.60
1:I:495:GLN:OE1	1:I:533:ARG:NH1	2.33	0.60
1:J:296:ARG:NH2	1:K:690:GLU:OE1	2.35	0.60
1:Q:225:SER:HB2	1:Q:319:ASN:H	1.66	0.60
1:2:690:GLU:OE1	1:3:296:ARG:NH2	2.35	0.60
1:5:495:GLN:OE1	1:5:533:ARG:NH1	2.33	0.60
1:a:495:GLN:OE1	1:a:533:ARG:NH1	2.34	0.60
1:c:495:GLN:OE1	1:c:533:ARG:NH1	2.33	0.60
1:g:225:SER:HB2	1:g:319:ASN:H	1.66	0.60
1:n:296:ARG:NH2	1:y:690:GLU:OE1	2.34	0.60
1:n:495:GLN:OE1	1:n:533:ARG:NH1	2.33	0.60
1:s:495:GLN:OE1	1:s:533:ARG:NH1	2.33	0.60
1:G:495:GLN:OE1	1:G:533:ARG:NH1	2.33	0.60
1:G:700:GLN:HB2	1:H:702:THR:HG22	1.83	0.60
1:N:449:LYS:HB3	1:N:462:LYS:HB2	1.81	0.60
1:Q:332:LYS:NZ	1:S:657:ASP:OD2	2.28	0.60
1:W:296:ARG:NH2	1:X:690:GLU:OE1	2.34	0.60
1:4:296:ARG:NH2	1:5:690:GLU:OE1	2.34	0.60
1:c:225:SER:HB2	1:c:319:ASN:H	1.66	0.60
1:k:700:GLN:HB2	1:r:702:THR:HG22	1.84	0.60
1:m:495:GLN:OE1	1:m:533:ARG:NH1	2.33	0.60
1:p:495:GLN:OE1	1:p:533:ARG:NH1	2.33	0.60
1:z:495:GLN:OE1	1:z:533:ARG:NH1	2.33	0.60
1:7:225:SER:HB2	1:7:319:ASN:H	1.66	0.60
1:7:296:ARG:NH2	1:8:690:GLU:OE1	2.34	0.60
1:7:690:GLU:OE1	1:8:296:ARG:NH2	2.34	0.60
1:C:225:SER:HB2	1:C:319:ASN:H	1.66	0.60
1:C:690:GLU:OE1	1:L:296:ARG:NH2	2.34	0.60
1:D:495:GLN:OE1	1:D:533:ARG:NH1	2.34	0.60
1:E:690:GLU:OE1	1:P:296:ARG:NH2	2.34	0.60
1:E:700:GLN:HB2	1:P:702:THR:HG22	1.83	0.60
1:I:579:GLN:NE2	1:I:593:THR:OG1	2.35	0.60
1:J:225:SER:HB2	1:J:319:ASN:H	1.66	0.60
1:N:495:GLN:OE1	1:N:533:ARG:NH1	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:225:SER:HB2	1:R:319:ASN:H	1.66	0.60
1:U:700:GLN:HB2	1:V:702:THR:HG22	1.84	0.60
1:W:690:GLU:OE1	1:X:296:ARG:NH2	2.35	0.60
1:X:225:SER:HB2	1:X:319:ASN:H	1.66	0.60
1:Y:495:GLN:OE1	1:Y:533:ARG:NH1	2.33	0.60
1:1:296:ARG:NH2	1:w:690:GLU:OE1	2.34	0.60
1:1:702:THR:HG22	1:w:700:GLN:HB2	1.84	0.60
1:4:700:GLN:HB2	1:5:702:THR:HG22	1.83	0.60
1:6:441:ASP:OD2	1:f:550:ARG:NH1	2.24	0.60
1:d:495:GLN:OE1	1:d:533:ARG:NH1	2.33	0.60
1:e:225:SER:HB2	1:e:319:ASN:H	1.66	0.60
1:i:700:GLN:HB2	1:z:702:THR:HG22	1.84	0.60
1:j:700:GLN:HB2	1:m:702:THR:HG22	1.83	0.60
1:o:296:ARG:NH2	1:u:690:GLU:OE1	2.34	0.60
1:r:495:GLN:OE1	1:r:533:ARG:NH1	2.33	0.60
1:s:579:GLN:NE2	1:s:593:THR:OG1	2.35	0.60
1:y:495:GLN:OE1	1:y:533:ARG:NH1	2.33	0.60
1:8:225:SER:HB2	1:8:319:ASN:H	1.66	0.60
1:E:225:SER:HB2	1:E:319:ASN:H	1.66	0.60
1:F:495:GLN:OE1	1:F:533:ARG:NH1	2.33	0.60
1:G:296:ARG:NH2	1:H:690:GLU:OE1	2.34	0.60
1:I:225:SER:HB2	1:I:319:ASN:H	1.66	0.60
1:J:495:GLN:OE1	1:J:533:ARG:NH1	2.34	0.60
1:J:690:GLU:OE1	1:K:296:ARG:NH2	2.34	0.60
1:K:495:GLN:OE1	1:K:533:ARG:NH1	2.33	0.60
1:M:579:GLN:NE2	1:M:593:THR:OG1	2.35	0.60
1:Q:690:GLU:OE1	1:R:296:ARG:NH2	2.34	0.60
1:1:495:GLN:OE1	1:1:533:ARG:NH1	2.33	0.60
1:1:700:GLN:HB2	1:w:702:THR:HG22	1.84	0.60
1:b:296:ARG:NH2	1:e:690:GLU:OE1	2.34	0.60
1:b:702:THR:HG22	1:e:700:GLN:HB2	1.83	0.60
1:g:296:ARG:NH2	1:l:690:GLU:OE1	2.35	0.60
1:i:690:GLU:OE1	1:z:296:ARG:NH2	2.34	0.60
1:k:579:GLN:NE2	1:k:593:THR:OG1	2.35	0.60
1:m:579:GLN:NE2	1:m:593:THR:OG1	2.35	0.60
1:o:702:THR:HG22	1:u:700:GLN:HB2	1.83	0.60
1:s:225:SER:HB2	1:s:319:ASN:H	1.66	0.60
1:t:579:GLN:NE2	1:t:593:THR:OG1	2.35	0.60
1:C:579:GLN:NE2	1:C:593:THR:OG1	2.35	0.60
1:C:700:GLN:HB2	1:L:702:THR:HG22	1.83	0.60
1:C:702:THR:HG22	1:L:700:GLN:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:225:SER:HB2	1:G:319:ASN:H	1.66	0.60
1:H:579:GLN:NE2	1:H:593:THR:OG1	2.35	0.60
1:J:702:THR:HG22	1:K:700:GLN:HB2	1.84	0.60
1:Q:702:THR:HG22	1:R:700:GLN:HB2	1.84	0.60
1:U:579:GLN:NE2	1:U:593:THR:OG1	2.35	0.60
1:Y:579:GLN:NE2	1:Y:593:THR:OG1	2.35	0.60
1:1:690:GLU:OE1	1:w:296:ARG:NH2	2.35	0.60
1:4:690:GLU:OE1	1:5:296:ARG:NH2	2.34	0.60
1:6:579:GLN:NE2	1:6:593:THR:OG1	2.35	0.60
1:k:462:LYS:NZ	1:l:554:ASP:OD1	2.27	0.60
1:k:702:THR:HG22	1:r:700:GLN:HB2	1.84	0.60
1:n:702:THR:HG22	1:y:700:GLN:HB2	1.84	0.60
1:o:690:GLU:OE1	1:u:296:ARG:NH2	2.34	0.60
1:o:700:GLN:HB2	1:u:702:THR:HG22	1.83	0.60
1:r:225:SER:HB2	1:r:319:ASN:H	1.66	0.60
1:C:296:ARG:NH2	1:L:690:GLU:OE1	2.34	0.60
1:G:702:THR:HG22	1:H:700:GLN:HB2	1.84	0.60
1:W:355:VAL:H	1:W:646:GLN:NE2	2.00	0.60
1:2:296:ARG:NH2	1:3:690:GLU:OE1	2.34	0.60
1:2:579:GLN:NE2	1:2:593:THR:OG1	2.35	0.60
1:3:579:GLN:NE2	1:3:593:THR:OG1	2.35	0.60
1:f:579:GLN:NE2	1:f:593:THR:OG1	2.35	0.60
1:i:296:ARG:NH2	1:z:690:GLU:OE1	2.35	0.60
1:i:579:GLN:NE2	1:i:593:THR:OG1	2.35	0.60
1:i:702:THR:HG22	1:z:700:GLN:HB2	1.84	0.60
1:k:690:GLU:OE1	1:r:296:ARG:NH2	2.35	0.60
1:l:355:VAL:H	1:l:646:GLN:NE2	2.00	0.60
1:m:225:SER:HB2	1:m:319:ASN:H	1.66	0.60
1:n:225:SER:HB2	1:n:319:ASN:H	1.66	0.60
1:n:690:GLU:OE1	1:y:296:ARG:NH2	2.34	0.60
1:o:225:SER:HB2	1:o:319:ASN:H	1.66	0.60
1:p:225:SER:HB2	1:p:319:ASN:H	1.66	0.60
1:u:225:SER:HB2	1:u:319:ASN:H	1.66	0.60
1:u:579:GLN:NE2	1:u:593:THR:OG1	2.35	0.60
1:v:296:ARG:NH2	1:x:690:GLU:OE1	2.34	0.60
1:v:579:GLN:NE2	1:v:593:THR:OG1	2.35	0.60
1:A:702:THR:HG22	1:F:700:GLN:HB2	1.83	0.60
1:B:225:SER:HB2	1:B:319:ASN:H	1.66	0.60
1:G:690:GLU:OE1	1:H:296:ARG:NH2	2.34	0.60
1:L:225:SER:HB2	1:L:319:ASN:H	1.66	0.60
1:O:355:VAL:H	1:O:646:GLN:NE2	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:296:ARG:NH2	1:R:690:GLU:OE1	2.35	0.60
1:R:579:GLN:NE2	1:R:593:THR:OG1	2.35	0.60
1:Y:225:SER:HB2	1:Y:319:ASN:H	1.66	0.60
1:Y:355:VAL:H	1:Y:646:GLN:NE2	2.00	0.60
1:4:355:VAL:H	1:4:646:GLN:NE2	2.00	0.60
1:5:355:VAL:H	1:5:646:GLN:NE2	2.00	0.60
1:g:702:THR:HG22	1:l:700:GLN:HB2	1.84	0.60
1:m:355:VAL:H	1:m:646:GLN:NE2	2.00	0.60
1:x:579:GLN:NE2	1:x:593:THR:OG1	2.35	0.60
1:8:355:VAL:H	1:8:646:GLN:NE2	2.00	0.60
1:F:355:VAL:H	1:F:646:GLN:NE2	2.00	0.60
1:N:355:VAL:H	1:N:646:GLN:NE2	2.00	0.60
1:P:579:GLN:NE2	1:P:593:THR:OG1	2.35	0.60
1:Z:225:SER:HB2	1:Z:319:ASN:H	1.66	0.60
1:5:225:SER:HB2	1:5:319:ASN:H	1.66	0.60
1:a:296:ARG:NH2	1:t:690:GLU:OE1	2.34	0.60
1:a:579:GLN:NE2	1:a:593:THR:OG1	2.35	0.60
1:a:700:GLN:HB2	1:t:702:THR:HG22	1.84	0.60
1:b:579:GLN:NE2	1:b:593:THR:OG1	2.35	0.60
1:d:355:VAL:H	1:d:646:GLN:NE2	2.00	0.60
1:f:355:VAL:H	1:f:646:GLN:NE2	2.00	0.60
1:g:690:GLU:OE1	1:l:296:ARG:NH2	2.34	0.60
1:k:225:SER:HB2	1:k:319:ASN:H	1.66	0.60
1:l:579:GLN:NE2	1:l:593:THR:OG1	2.35	0.60
1:w:579:GLN:NE2	1:w:593:THR:OG1	2.35	0.60
1:7:355:VAL:H	1:7:646:GLN:NE2	2.00	0.60
1:B:355:VAL:H	1:B:646:GLN:NE2	2.00	0.59
1:B:700:GLN:HB2	1:I:702:THR:HG22	1.83	0.59
1:D:296:ARG:NH2	1:M:690:GLU:OE1	2.34	0.59
1:D:355:VAL:H	1:D:646:GLN:NE2	2.00	0.59
1:D:579:GLN:NE2	1:D:593:THR:OG1	2.35	0.59
1:H:225:SER:HB2	1:H:319:ASN:H	1.66	0.59
1:K:225:SER:HB2	1:K:319:ASN:H	1.66	0.59
1:R:355:VAL:H	1:R:646:GLN:NE2	2.00	0.59
1:R:462:LYS:NZ	1:S:554:ASP:OD1	2.30	0.59
1:W:579:GLN:NE2	1:W:593:THR:OG1	2.35	0.59
1:Z:355:VAL:H	1:Z:646:GLN:NE2	2.00	0.59
1:Z:579:GLN:NE2	1:Z:593:THR:OG1	2.35	0.59
1:2:700:GLN:HB2	1:3:702:THR:HG22	1.84	0.59
1:3:355:VAL:H	1:3:646:GLN:NE2	2.00	0.59
1:g:332:LYS:NZ	1:m:657:ASP:OD2	2.29	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:495:GLN:OE1	1:i:533:ARG:NH1	2.33	0.59
1:j:225:SER:HB2	1:j:319:ASN:H	1.66	0.59
1:j:579:GLN:NE2	1:j:593:THR:OG1	2.35	0.59
1:p:296:ARG:NH2	1:s:690:GLU:OE1	2.34	0.59
1:p:700:GLN:HB2	1:s:702:THR:HG22	1.83	0.59
1:x:355:VAL:H	1:x:646:GLN:NE2	2.00	0.59
1:y:225:SER:HB2	1:y:319:ASN:H	1.66	0.59
1:7:579:GLN:NE2	1:7:593:THR:OG1	2.35	0.59
1:B:296:ARG:NH2	1:I:690:GLU:OE1	2.34	0.59
1:D:700:GLN:HB2	1:M:702:THR:HG22	1.84	0.59
1:L:355:VAL:H	1:L:646:GLN:NE2	2.00	0.59
1:N:225:SER:HB2	1:N:319:ASN:H	1.66	0.59
1:U:225:SER:HB2	1:U:319:ASN:H	1.66	0.59
1:W:700:GLN:HB2	1:X:702:THR:HG22	1.84	0.59
1:W:702:THR:HG22	1:X:700:GLN:HB2	1.83	0.59
1:Y:690:GLU:OE1	1:Z:296:ARG:NH2	2.35	0.59
1:6:225:SER:HB2	1:6:319:ASN:H	1.66	0.59
1:6:693:LYS:HG2	1:f:400:PHE:CE1	2.38	0.59
1:a:355:VAL:H	1:a:646:GLN:NE2	2.00	0.59
1:b:690:GLU:OE1	1:e:296:ARG:NH2	2.35	0.59
1:d:700:GLN:HB2	1:q:702:THR:HG22	1.83	0.59
1:k:296:ARG:NH2	1:r:690:GLU:OE1	2.34	0.59
1:p:355:VAL:H	1:p:646:GLN:NE2	2.00	0.59
1:p:579:GLN:NE2	1:p:593:THR:OG1	2.35	0.59
1:v:700:GLN:HB2	1:x:702:THR:HG22	1.84	0.59
1:V:495:GLN:OE1	1:V:533:ARG:NH1	2.33	0.59
1:g:355:VAL:H	1:g:646:GLN:NE2	2.00	0.59
1:h:495:GLN:OE1	1:h:533:ARG:NH1	2.34	0.59
1:j:296:ARG:NH2	1:m:690:GLU:OE1	2.35	0.59
1:j:355:VAL:H	1:j:646:GLN:NE2	2.00	0.59
1:o:355:VAL:H	1:o:646:GLN:NE2	2.00	0.59
1:w:495:GLN:OE1	1:w:533:ARG:NH1	2.33	0.59
1:z:355:VAL:H	1:z:646:GLN:NE2	2.00	0.59
1:8:579:GLN:NE2	1:8:593:THR:OG1	2.35	0.59
1:B:579:GLN:NE2	1:B:593:THR:OG1	2.35	0.59
1:E:296:ARG:NH2	1:P:690:GLU:OE1	2.35	0.59
1:P:355:VAL:H	1:P:646:GLN:NE2	2.00	0.59
1:Q:355:VAL:H	1:Q:646:GLN:NE2	2.00	0.59
1:X:355:VAL:H	1:X:646:GLN:NE2	2.00	0.59
1:1:355:VAL:H	1:1:646:GLN:NE2	2.00	0.59
1:2:225:SER:HB2	1:2:319:ASN:H	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:355:VAL:H	1:c:646:GLN:NE2	2.00	0.59
1:r:579:GLN:NE2	1:r:593:THR:OG1	2.35	0.59
1:v:225:SER:HB2	1:v:319:ASN:H	1.66	0.59
1:x:495:GLN:OE1	1:x:533:ARG:NH1	2.33	0.59
1:D:702:THR:HG22	1:M:700:GLN:HB2	1.84	0.59
1:F:579:GLN:NE2	1:F:593:THR:OG1	2.35	0.59
1:G:579:GLN:NE2	1:G:593:THR:OG1	2.35	0.59
1:H:581:ALA:O	1:W:485:ARG:HD2	2.03	0.59
1:J:579:GLN:NE2	1:J:593:THR:OG1	2.35	0.59
1:T:657:ASP:OD2	1:c:332:LYS:NZ	2.29	0.59
1:3:495:GLN:OE1	1:3:533:ARG:NH1	2.33	0.59
1:d:579:GLN:NE2	1:d:593:THR:OG1	2.35	0.59
1:k:355:VAL:H	1:k:646:GLN:NE2	2.00	0.59
1:A:355:VAL:H	1:A:646:GLN:NE2	2.00	0.59
1:E:702:THR:HG22	1:P:700:GLN:HB2	1.84	0.59
1:K:355:VAL:H	1:K:646:GLN:NE2	2.00	0.59
1:M:485:ARG:HD2	1:2:581:ALA:O	2.03	0.59
1:T:601:ILE:HG22	1:6:601:ILE:HB	1.84	0.59
1:V:581:ALA:O	1:4:485:ARG:HD2	2.03	0.59
1:3:225:SER:HB2	1:3:319:ASN:H	1.66	0.59
1:5:462:LYS:NZ	1:b:554:ASP:OD1	2.27	0.59
1:a:702:THR:HG22	1:t:700:GLN:HB2	1.84	0.59
1:b:355:VAL:H	1:b:646:GLN:NE2	2.00	0.59
1:d:296:ARG:NH2	1:q:690:GLU:OE1	2.35	0.59
1:i:355:VAL:H	1:i:646:GLN:NE2	2.00	0.59
1:q:355:VAL:H	1:q:646:GLN:NE2	2.00	0.59
1:w:355:VAL:H	1:w:646:GLN:NE2	2.00	0.59
1:y:355:VAL:H	1:y:646:GLN:NE2	2.00	0.59
1:A:485:ARG:HD2	1:I:581:ALA:O	2.03	0.59
1:C:581:ALA:O	1:2:485:ARG:HD2	2.03	0.59
1:D:225:SER:HB2	1:D:319:ASN:H	1.66	0.59
1:E:355:VAL:H	1:E:646:GLN:NE2	2.00	0.59
1:H:355:VAL:H	1:H:646:GLN:NE2	2.00	0.59
1:N:579:GLN:NE2	1:N:593:THR:OG1	2.35	0.59
1:R:485:ARG:HD2	1:U:581:ALA:O	2.03	0.59
1:T:480:PRO:HB3	1:6:511:LEU:HD12	1.84	0.59
1:V:355:VAL:H	1:V:646:GLN:NE2	2.00	0.59
1:a:225:SER:HB2	1:a:319:ASN:H	1.66	0.59
1:b:700:GLN:HB2	1:e:702:THR:HG22	1.84	0.59
1:e:355:VAL:H	1:e:646:GLN:NE2	2.00	0.59
1:g:700:GLN:HB2	1:l:702:THR:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:355:VAL:H	1:n:646:GLN:NE2	2.00	0.59
1:n:579:GLN:NE2	1:n:593:THR:OG1	2.35	0.59
1:t:485:ARG:HD2	1:v:581:ALA:O	2.03	0.59
1:u:581:ALA:O	1:v:485:ARG:HD2	2.03	0.59
1:x:225:SER:HB2	1:x:319:ASN:H	1.66	0.59
1:G:355:VAL:H	1:G:646:GLN:NE2	2.00	0.59
1:J:355:VAL:H	1:J:646:GLN:NE2	2.00	0.59
1:N:581:ALA:O	1:P:485:ARG:HD2	2.03	0.59
1:W:581:ALA:O	1:Y:485:ARG:HD2	2.03	0.59
1:5:581:ALA:O	1:b:485:ARG:HD2	2.03	0.59
1:k:581:ALA:O	1:l:485:ARG:HD2	2.03	0.59
1:q:579:GLN:NE2	1:q:593:THR:OG1	2.35	0.59
1:s:355:VAL:H	1:s:646:GLN:NE2	2.00	0.59
1:A:579:GLN:NE2	1:A:593:THR:OG1	2.35	0.59
1:A:690:GLU:OE1	1:F:296:ARG:NH2	2.35	0.59
1:B:702:THR:HG22	1:I:700:GLN:HB2	1.84	0.59
1:5:579:GLN:NE2	1:5:593:THR:OG1	2.35	0.59
1:6:590:GLN:HA	1:f:497:ASN:HD22	1.68	0.59
1:h:355:VAL:H	1:h:646:GLN:NE2	2.00	0.59
1:7:702:THR:HG22	1:8:700:GLN:HB2	1.84	0.59
1:G:581:ALA:O	1:I:485:ARG:HD2	2.03	0.59
1:I:355:VAL:H	1:I:646:GLN:NE2	2.00	0.59
1:d:657:ASP:OD2	1:f:332:LYS:NZ	2.26	0.59
1:k:485:ARG:HD2	1:m:581:ALA:O	2.03	0.59
1:p:702:THR:HG22	1:s:700:GLN:HB2	1.84	0.59
1:q:485:ARG:HD2	1:s:581:ALA:O	2.03	0.59
1:r:355:VAL:H	1:r:646:GLN:NE2	2.00	0.59
1:H:485:ARG:HD2	1:Y:581:ALA:O	2.03	0.58
1:N:690:GLU:OE1	1:O:296:ARG:NH2	2.36	0.58
1:S:355:VAL:H	1:S:646:GLN:NE2	2.00	0.58
1:1:225:SER:HB2	1:1:319:ASN:H	1.66	0.58
1:2:355:VAL:H	1:2:646:GLN:NE2	2.00	0.58
1:a:485:ARG:HD2	1:b:581:ALA:O	2.03	0.58
1:g:579:GLN:NE2	1:g:593:THR:OG1	2.35	0.58
1:o:579:GLN:NE2	1:o:593:THR:OG1	2.35	0.58
1:r:581:ALA:O	1:s:485:ARG:HD2	2.03	0.58
1:7:700:GLN:HB2	1:8:702:THR:HG22	1.84	0.58
1:D:485:ARG:HD2	1:P:581:ALA:O	2.03	0.58
1:U:355:VAL:H	1:U:646:GLN:NE2	2.00	0.58
1:X:579:GLN:NE2	1:X:593:THR:OG1	2.35	0.58
1:6:355:VAL:H	1:6:646:GLN:NE2	2.00	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:355:VAL:H	1:u:646:GLN:NE2	2.00	0.58
1:v:355:VAL:H	1:v:646:GLN:NE2	2.00	0.58
1:z:579:GLN:NE2	1:z:593:THR:OG1	2.35	0.58
1:C:355:VAL:H	1:C:646:GLN:NE2	2.00	0.58
1:L:579:GLN:NE2	1:L:593:THR:OG1	2.35	0.58
1:M:355:VAL:H	1:M:646:GLN:NE2	2.00	0.58
1:S:252:TYR:CE1	1:6:660:THR:O	2.56	0.58
1:S:579:GLN:NE2	1:S:593:THR:OG1	2.35	0.58
1:T:355:VAL:H	1:T:646:GLN:NE2	2.00	0.58
1:V:485:ARG:HD2	1:X:581:ALA:O	2.03	0.58
1:1:579:GLN:NE2	1:1:593:THR:OG1	2.35	0.58
1:c:481:GLY:HA3	1:c:607:TRP:HB3	1.86	0.58
1:l:581:ALA:O	1:m:485:ARG:HD2	2.03	0.58
1:z:225:SER:HB2	1:z:319:ASN:H	1.66	0.58
1:B:581:ALA:O	1:J:485:ARG:HD2	2.03	0.58
1:D:581:ALA:O	1:N:485:ARG:HD2	2.03	0.58
1:K:485:ARG:HD2	1:8:581:ALA:O	2.03	0.58
1:N:700:GLN:HB2	1:O:702:THR:HG22	1.86	0.58
1:Q:481:GLY:HA3	1:Q:607:TRP:HB3	1.86	0.58
1:T:579:GLN:NE2	1:T:593:THR:OG1	2.35	0.58
1:W:481:GLY:HA3	1:W:607:TRP:HB3	1.86	0.58
1:X:554:ASP:OD1	1:4:462:LYS:NZ	2.30	0.58
1:Z:485:ARG:HD2	1:w:581:ALA:O	2.03	0.58
1:3:481:GLY:HA3	1:3:607:TRP:HB3	1.86	0.58
1:c:690:GLU:OE1	1:f:296:ARG:NH2	2.36	0.58
1:o:481:GLY:HA3	1:o:607:TRP:HB3	1.86	0.58
1:y:485:ARG:HD2	1:7:581:ALA:O	2.03	0.58
1:A:481:GLY:HA3	1:A:607:TRP:HB3	1.86	0.58
1:H:481:GLY:HA3	1:H:607:TRP:HB3	1.86	0.58
1:J:581:ALA:O	1:L:485:ARG:HD2	2.03	0.58
1:L:481:GLY:HA3	1:L:607:TRP:HB3	1.86	0.58
1:O:579:GLN:NE2	1:O:593:THR:OG1	2.35	0.58
1:l:481:GLY:HA3	1:l:607:TRP:HB3	1.86	0.58
1:q:481:GLY:HA3	1:q:607:TRP:HB3	1.86	0.58
1:t:355:VAL:H	1:t:646:GLN:NE2	2.00	0.58
1:w:485:ARG:HD2	1:x:581:ALA:O	2.03	0.58
1:x:481:GLY:HA3	1:x:607:TRP:HB3	1.86	0.58
1:Q:579:GLN:NE2	1:Q:593:THR:OG1	2.35	0.58
1:X:481:GLY:HA3	1:X:607:TRP:HB3	1.86	0.58
1:c:579:GLN:NE2	1:c:593:THR:OG1	2.35	0.58
1:d:702:THR:HG22	1:q:700:GLN:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:581:ALA:O	1:j:485:ARG:HD2	2.03	0.58
1:n:485:ARG:HD2	1:p:581:ALA:O	2.03	0.58
1:n:581:ALA:O	1:o:485:ARG:HD2	2.03	0.58
1:K:481:GLY:HA3	1:K:607:TRP:HB3	1.86	0.58
1:U:481:GLY:HA3	1:U:607:TRP:HB3	1.86	0.58
1:4:579:GLN:NE2	1:4:593:THR:OG1	2.35	0.58
1:5:485:ARG:HD2	1:a:581:ALA:O	2.03	0.58
1:g:481:GLY:HA3	1:g:607:TRP:HB3	1.86	0.58
1:j:702:THR:HG22	1:m:700:GLN:HB2	1.84	0.58
1:k:481:GLY:HA3	1:k:607:TRP:HB3	1.86	0.58
1:y:481:GLY:HA3	1:y:607:TRP:HB3	1.86	0.58
1:E:481:GLY:HA3	1:E:607:TRP:HB3	1.86	0.58
1:E:485:ARG:HD2	1:F:581:ALA:O	2.03	0.58
1:E:581:ALA:O	1:Q:485:ARG:HD2	2.03	0.58
1:F:231:ASP:O	1:F:242:THR:OG1	2.22	0.58
1:K:231:ASP:O	1:K:242:THR:OG1	2.22	0.58
1:K:579:GLN:NE2	1:K:593:THR:OG1	2.35	0.58
1:1:481:GLY:HA3	1:1:607:TRP:HB3	1.86	0.58
1:3:581:ALA:O	1:i:485:ARG:HD2	2.03	0.58
1:6:481:GLY:HA3	1:6:607:TRP:HB3	1.86	0.58
1:o:231:ASP:O	1:o:242:THR:OG1	2.22	0.58
1:y:231:ASP:O	1:y:242:THR:OG1	2.22	0.58
1:y:579:GLN:NE2	1:y:593:THR:OG1	2.35	0.58
1:7:481:GLY:HA3	1:7:607:TRP:HB3	1.86	0.58
1:A:700:GLN:HB2	1:F:702:THR:HG22	1.84	0.58
1:L:231:ASP:O	1:L:242:THR:OG1	2.22	0.58
1:P:481:GLY:HA3	1:P:607:TRP:HB3	1.86	0.58
1:Q:231:ASP:O	1:Q:242:THR:OG1	2.22	0.58
1:S:481:GLY:HA3	1:S:607:TRP:HB3	1.86	0.58
1:T:481:GLY:HA3	1:T:607:TRP:HB3	1.86	0.58
1:Z:581:ALA:O	1:x:485:ARG:HD2	2.03	0.58
1:b:481:GLY:HA3	1:b:607:TRP:HB3	1.86	0.58
1:d:581:ALA:O	1:e:485:ARG:HD2	2.03	0.58
1:8:481:GLY:HA3	1:8:607:TRP:HB3	1.86	0.58
1:C:485:ARG:HD2	1:M:581:ALA:O	2.03	0.58
1:O:404:MET:HE1	1:6:678:GLN:NE2	2.19	0.58
1:R:481:GLY:HA3	1:R:607:TRP:HB3	1.86	0.58
1:Y:700:GLN:HB2	1:Z:702:THR:HG22	1.84	0.58
1:3:485:ARG:HD2	1:j:581:ALA:O	2.03	0.58
1:6:299:GLN:O	1:6:303:ASN:ND2	2.35	0.58
1:c:485:ARG:HD2	1:e:581:ALA:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:481:GLY:HA3	1:e:607:TRP:HB3	1.86	0.58
1:h:579:GLN:NE2	1:h:593:THR:OG1	2.35	0.58
1:p:481:GLY:HA3	1:p:607:TRP:HB3	1.86	0.58
1:t:581:ALA:O	1:u:485:ARG:HD2	2.03	0.58
1:v:231:ASP:O	1:v:242:THR:OG1	2.22	0.58
1:z:481:GLY:HA3	1:z:607:TRP:HB3	1.86	0.58
1:F:485:ARG:HD2	1:Q:581:ALA:O	2.03	0.57
1:c:581:ALA:O	1:d:485:ARG:HD2	2.03	0.57
1:c:700:GLN:HB2	1:f:702:THR:HG22	1.86	0.57
1:f:481:GLY:HA3	1:f:607:TRP:HB3	1.86	0.57
1:g:231:ASP:O	1:g:242:THR:OG1	2.22	0.57
1:h:231:ASP:O	1:h:242:THR:OG1	2.22	0.57
1:h:481:GLY:HA3	1:h:607:TRP:HB3	1.86	0.57
1:B:481:GLY:HA3	1:B:607:TRP:HB3	1.86	0.57
1:K:581:ALA:O	1:l:485:ARG:HD2	2.03	0.57
1:T:497:ASN:HD22	1:f:590:GLN:HA	1.70	0.57
1:U:299:GLN:O	1:U:303:ASN:ND2	2.35	0.57
1:V:481:GLY:HA3	1:V:607:TRP:HB3	1.86	0.57
1:V:579:GLN:NE2	1:V:593:THR:OG1	2.35	0.57
1:Z:231:ASP:O	1:Z:242:THR:OG1	2.22	0.57
1:o:693:LYS:HG2	1:p:400:PHE:CE1	2.39	0.57
1:q:231:ASP:O	1:q:242:THR:OG1	2.22	0.57
1:r:231:ASP:O	1:r:242:THR:OG1	2.22	0.57
1:y:581:ALA:O	1:z:485:ARG:HD2	2.03	0.57
1:A:231:ASP:O	1:A:242:THR:OG1	2.22	0.57
1:A:581:ALA:O	1:G:485:ARG:HD2	2.03	0.57
1:B:400:PHE:CE1	1:L:693:LYS:HG2	2.39	0.57
1:O:693:LYS:HG2	1:g:400:PHE:CE1	2.39	0.57
1:V:231:ASP:O	1:V:242:THR:OG1	2.22	0.57
1:X:400:PHE:CE1	1:4:693:LYS:HG2	2.39	0.57
1:s:299:GLN:O	1:s:303:ASN:ND2	2.35	0.57
1:2:481:GLY:HA3	1:2:607:TRP:HB3	1.86	0.57
1:e:579:GLN:NE2	1:e:593:THR:OG1	2.35	0.57
1:h:659:PRO:HG2	1:l:373:MET:HE1	1.87	0.57
1:v:481:GLY:HA3	1:v:607:TRP:HB3	1.86	0.57
1:A:299:GLN:O	1:A:303:ASN:ND2	2.35	0.57
1:E:579:GLN:NE2	1:E:593:THR:OG1	2.35	0.57
1:I:299:GLN:O	1:I:303:ASN:ND2	2.35	0.57
1:J:404:MET:HE3	1:J:652:THR:HG21	1.87	0.57
1:M:481:GLY:HA3	1:M:607:TRP:HB3	1.86	0.57
1:O:231:ASP:O	1:O:242:THR:OG1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:581:ALA:O	1:U:485:ARG:HD2	2.05	0.57
1:W:404:MET:HE3	1:W:652:THR:HG21	1.87	0.57
1:f:299:GLN:O	1:f:303:ASN:ND2	2.35	0.57
1:m:252:TYR:OH	1:m:374:ILE:O	2.21	0.57
1:q:299:GLN:O	1:q:303:ASN:ND2	2.35	0.57
1:R:581:ALA:O	1:S:485:ARG:HD2	2.05	0.57
1:Z:481:GLY:HA3	1:Z:607:TRP:HB3	1.86	0.57
1:i:481:GLY:HA3	1:i:607:TRP:HB3	1.86	0.57
1:l:404:MET:HE3	1:l:652:THR:HG21	1.87	0.57
1:n:404:MET:HE3	1:n:652:THR:HG21	1.87	0.57
1:q:581:ALA:O	1:r:485:ARG:HD2	2.03	0.57
1:w:481:GLY:HA3	1:w:607:TRP:HB3	1.86	0.57
1:O:332:LYS:NZ	1:P:657:ASP:OD2	2.27	0.57
1:O:400:PHE:CE1	1:h:693:LYS:HG2	2.39	0.57
1:T:590:GLN:HA	1:6:497:ASN:ND2	2.20	0.57
1:1:581:ALA:O	1:8:485:ARG:HD2	2.03	0.57
1:a:404:MET:HE3	1:a:652:THR:HG21	1.87	0.57
1:e:404:MET:HE3	1:e:652:THR:HG21	1.87	0.57
1:s:481:GLY:HA3	1:s:607:TRP:HB3	1.86	0.57
1:t:481:GLY:HA3	1:t:607:TRP:HB3	1.86	0.57
1:z:581:ALA:O	1:7:485:ARG:HD2	2.03	0.57
1:D:404:MET:HE3	1:D:652:THR:HG21	1.87	0.57
1:E:404:MET:HE3	1:E:652:THR:HG21	1.87	0.57
1:I:481:GLY:HA3	1:I:607:TRP:HB3	1.86	0.57
1:R:299:GLN:O	1:R:303:ASN:ND2	2.35	0.57
1:S:437:ASN:HB2	1:U:355:VAL:CG1	2.35	0.57
1:T:231:ASP:O	1:T:242:THR:OG1	2.22	0.57
1:j:404:MET:HE3	1:j:652:THR:HG21	1.87	0.57
1:j:481:GLY:HA3	1:j:607:TRP:HB3	1.86	0.57
1:7:231:ASP:O	1:7:242:THR:OG1	2.22	0.57
1:A:404:MET:HE3	1:A:652:THR:HG21	1.87	0.57
1:M:657:ASP:OD2	1:3:332:LYS:NZ	2.29	0.57
1:S:690:GLU:OE1	1:T:296:ARG:NH2	2.38	0.57
1:Z:404:MET:HE3	1:Z:652:THR:HG21	1.87	0.57
1:2:404:MET:HE3	1:2:652:THR:HG21	1.87	0.57
1:6:404:MET:HE3	1:6:652:THR:HG21	1.87	0.57
1:h:404:MET:HE3	1:h:652:THR:HG21	1.87	0.57
1:q:404:MET:HE3	1:q:652:THR:HG21	1.87	0.57
1:8:231:ASP:O	1:8:242:THR:OG1	2.22	0.57
1:D:657:ASP:OD2	1:E:332:LYS:NZ	2.29	0.57
1:N:231:ASP:O	1:N:242:THR:OG1	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:252:TYR:OH	1:O:374:ILE:O	2.22	0.57
1:U:404:MET:HE3	1:U:652:THR:HG21	1.87	0.57
1:a:481:GLY:HA3	1:a:607:TRP:HB3	1.86	0.57
1:n:481:GLY:HA3	1:n:607:TRP:HB3	1.86	0.57
1:8:404:MET:HE3	1:8:652:THR:HG21	1.87	0.57
1:A:437:ASN:HB2	1:G:355:VAL:CG1	2.35	0.56
1:H:404:MET:HE3	1:H:652:THR:HG21	1.87	0.56
1:J:231:ASP:O	1:J:242:THR:OG1	2.22	0.56
1:J:481:GLY:HA3	1:J:607:TRP:HB3	1.86	0.56
1:S:231:ASP:O	1:S:242:THR:OG1	2.22	0.56
1:V:404:MET:HE3	1:V:652:THR:HG21	1.87	0.56
1:Y:299:GLN:O	1:Y:303:ASN:ND2	2.35	0.56
1:Y:481:GLY:HA3	1:Y:607:TRP:HB3	1.86	0.56
1:3:231:ASP:O	1:3:242:THR:OG1	2.22	0.56
1:5:231:ASP:O	1:5:242:THR:OG1	2.22	0.56
1:5:481:GLY:HA3	1:5:607:TRP:HB3	1.86	0.56
1:m:481:GLY:HA3	1:m:607:TRP:HB3	1.86	0.56
1:o:404:MET:HE3	1:o:652:THR:HG21	1.87	0.56
1:v:404:MET:HE3	1:v:652:THR:HG21	1.87	0.56
1:7:404:MET:HE3	1:7:652:THR:HG21	1.87	0.56
1:L:404:MET:HE3	1:L:652:THR:HG21	1.87	0.56
1:M:231:ASP:O	1:M:242:THR:OG1	2.22	0.56
1:O:398:GLU:HG3	1:6:369:ALA:HA	1.85	0.56
1:4:332:LYS:NZ	1:b:657:ASP:OD2	2.28	0.56
1:6:697:PRO:HD3	1:h:295:PRO:HB2	1.87	0.56
1:g:693:LYS:HG2	1:h:400:PHE:CE1	2.40	0.56
1:k:404:MET:HE3	1:k:652:THR:HG21	1.87	0.56
1:m:299:GLN:O	1:m:303:ASN:ND2	2.35	0.56
1:p:404:MET:HE3	1:p:652:THR:HG21	1.87	0.56
1:r:481:GLY:HA3	1:r:607:TRP:HB3	1.86	0.56
1:x:404:MET:HE3	1:x:652:THR:HG21	1.87	0.56
1:B:404:MET:HE3	1:B:652:THR:HG21	1.87	0.56
1:D:481:GLY:HA3	1:D:607:TRP:HB3	1.86	0.56
1:G:481:GLY:HA3	1:G:607:TRP:HB3	1.86	0.56
1:I:404:MET:HE3	1:I:652:THR:HG21	1.87	0.56
1:J:693:LYS:HG2	1:L:400:PHE:CE1	2.41	0.56
1:N:481:GLY:HA3	1:N:607:TRP:HB3	1.86	0.56
1:O:481:GLY:HA3	1:O:607:TRP:HB3	1.86	0.56
1:T:693:LYS:HG2	1:6:400:PHE:CE1	2.40	0.56
1:V:400:PHE:CE1	1:X:693:LYS:HG2	2.40	0.56
1:X:404:MET:HE3	1:X:652:THR:HG21	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:404:MET:HE3	1:3:652:THR:HG21	1.87	0.56
1:3:693:LYS:HG2	1:i:400:PHE:CE1	2.41	0.56
1:4:481:GLY:HA3	1:4:607:TRP:HB3	1.86	0.56
1:f:231:ASP:O	1:f:242:THR:OG1	2.22	0.56
1:g:404:MET:HE3	1:g:652:THR:HG21	1.87	0.56
1:n:693:LYS:HG2	1:o:400:PHE:CE1	2.41	0.56
1:t:231:ASP:O	1:t:242:THR:OG1	2.22	0.56
1:w:400:PHE:CE1	1:x:693:LYS:HG2	2.41	0.56
1:z:404:MET:HE3	1:z:652:THR:HG21	1.87	0.56
1:D:400:PHE:CE1	1:P:693:LYS:HG2	2.41	0.56
1:S:404:MET:HE3	1:S:652:THR:HG21	1.87	0.56
1:Z:693:LYS:HG2	1:x:400:PHE:CE1	2.41	0.56
1:1:404:MET:HE3	1:1:652:THR:HG21	1.87	0.56
1:1:693:LYS:HG2	1:8:400:PHE:CE1	2.41	0.56
1:a:400:PHE:CE1	1:b:693:LYS:HG2	2.41	0.56
1:c:693:LYS:HG2	1:d:400:PHE:CE1	2.41	0.56
1:z:693:LYS:HG2	1:7:400:PHE:CE1	2.41	0.56
1:F:481:GLY:HA3	1:F:607:TRP:HB3	1.86	0.56
1:H:400:PHE:CE1	1:Y:693:LYS:HG2	2.41	0.56
1:H:437:ASN:HB2	1:W:355:VAL:CG1	2.36	0.56
1:P:325:VAL:HG22	1:P:334:ILE:HG12	1.88	0.56
1:T:404:MET:HE3	1:T:652:THR:HG21	1.87	0.56
1:X:485:ARG:HD2	1:4:581:ALA:O	2.05	0.56
1:3:400:PHE:CE1	1:j:693:LYS:HG2	2.41	0.56
1:b:325:VAL:HG22	1:b:334:ILE:HG12	1.88	0.56
1:k:400:PHE:CE1	1:m:693:LYS:HG2	2.41	0.56
1:q:437:ASN:HB2	1:r:355:VAL:CG1	2.36	0.56
1:s:404:MET:HE3	1:s:652:THR:HG21	1.87	0.56
1:t:355:VAL:CG1	1:v:437:ASN:HB2	2.36	0.56
1:E:231:ASP:O	1:E:242:THR:OG1	2.22	0.56
1:F:400:PHE:CE1	1:Q:693:LYS:HG2	2.41	0.56
1:K:299:GLN:O	1:K:303:ASN:ND2	2.35	0.56
1:M:355:VAL:CG1	1:2:437:ASN:HB2	2.36	0.56
1:M:400:PHE:CE1	1:2:693:LYS:HG2	2.41	0.56
1:P:404:MET:HE3	1:P:652:THR:HG21	1.87	0.56
1:R:231:ASP:O	1:R:242:THR:OG1	2.22	0.56
1:R:325:VAL:HG22	1:R:334:ILE:HG12	1.88	0.56
1:W:231:ASP:O	1:W:242:THR:OG1	2.22	0.56
1:1:437:ASN:HB2	1:8:355:VAL:CG1	2.36	0.56
1:4:252:TYR:OH	1:4:374:ILE:O	2.21	0.56
1:5:325:VAL:HG22	1:5:334:ILE:HG12	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:325:VAL:HG22	1:f:334:ILE:HG12	1.88	0.56
1:i:231:ASP:O	1:i:242:THR:OG1	2.22	0.56
1:k:355:VAL:CG1	1:m:437:ASN:HB2	2.36	0.56
1:n:400:PHE:CE1	1:p:693:LYS:HG2	2.41	0.56
1:t:400:PHE:CE1	1:v:693:LYS:HG2	2.41	0.56
1:y:693:LYS:HG2	1:z:400:PHE:CE1	2.41	0.56
1:z:299:GLN:O	1:z:303:ASN:ND2	2.35	0.56
1:z:437:ASN:HB2	1:7:355:VAL:CG1	2.36	0.56
1:B:693:LYS:HG2	1:J:400:PHE:CE1	2.41	0.56
1:D:325:VAL:HG22	1:D:334:ILE:HG12	1.88	0.56
1:H:355:VAL:CG1	1:Y:437:ASN:HB2	2.36	0.56
1:K:325:VAL:HG22	1:K:334:ILE:HG12	1.88	0.56
1:K:693:LYS:HG2	1:1:400:PHE:CE1	2.41	0.56
1:N:325:VAL:HG22	1:N:334:ILE:HG12	1.88	0.56
1:N:693:LYS:HG2	1:P:400:PHE:CE1	2.41	0.56
1:5:693:LYS:HG2	1:b:400:PHE:CE1	2.41	0.56
1:e:231:ASP:O	1:e:242:THR:OG1	2.22	0.56
1:i:325:VAL:HG22	1:i:334:ILE:HG12	1.88	0.56
1:k:437:ASN:HB2	1:l:355:VAL:CG1	2.36	0.56
1:l:231:ASP:O	1:l:242:THR:OG1	2.22	0.56
1:w:231:ASP:O	1:w:242:THR:OG1	2.22	0.56
1:w:325:VAL:HG22	1:w:334:ILE:HG12	1.88	0.56
1:A:355:VAL:CG1	1:I:437:ASN:HB2	2.36	0.56
1:A:400:PHE:CE1	1:I:693:LYS:HG2	2.41	0.56
1:B:485:ARG:HD2	1:L:581:ALA:O	2.05	0.56
1:C:325:VAL:HG22	1:C:334:ILE:HG12	1.88	0.56
1:C:481:GLY:HA3	1:C:607:TRP:HB3	1.86	0.56
1:D:693:LYS:HG2	1:N:400:PHE:CE1	2.41	0.56
1:N:437:ASN:HB2	1:P:355:VAL:CG1	2.36	0.56
1:5:400:PHE:CE1	1:a:693:LYS:HG2	2.41	0.56
1:5:404:MET:HE3	1:5:652:THR:HG21	1.87	0.56
1:a:325:VAL:HG22	1:a:334:ILE:HG12	1.88	0.56
1:b:404:MET:HE3	1:b:652:THR:HG21	1.87	0.56
1:d:481:GLY:HA3	1:d:607:TRP:HB3	1.86	0.56
1:g:299:GLN:O	1:g:303:ASN:ND2	2.35	0.56
1:o:581:ALA:O	1:p:485:ARG:HD2	2.05	0.56
1:y:325:VAL:HG22	1:y:334:ILE:HG12	1.88	0.56
1:C:400:PHE:CE1	1:M:693:LYS:HG2	2.41	0.56
1:G:404:MET:HE3	1:G:652:THR:HG21	1.87	0.56
1:N:404:MET:HE3	1:N:652:THR:HG21	1.87	0.56
1:S:693:LYS:HG2	1:U:400:PHE:CE1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:299:GLN:O	1:1:303:ASN:ND2	2.35	0.56
1:5:437:ASN:HB2	1:b:355:VAL:CG1	2.36	0.56
1:d:325:VAL:HG22	1:d:334:ILE:HG12	1.88	0.56
1:k:693:LYS:HG2	1:l:400:PHE:CE1	2.41	0.56
1:q:355:VAL:CG1	1:s:437:ASN:HB2	2.36	0.56
1:r:404:MET:HE3	1:r:652:THR:HG21	1.87	0.56
1:t:693:LYS:HG2	1:u:400:PHE:CE1	2.41	0.56
1:u:325:VAL:HG22	1:u:334:ILE:HG12	1.88	0.56
1:u:481:GLY:HA3	1:u:607:TRP:HB3	1.86	0.56
1:y:299:GLN:O	1:y:303:ASN:ND2	2.35	0.56
1:C:404:MET:HE3	1:C:652:THR:HG21	1.87	0.56
1:F:355:VAL:CG1	1:Q:437:ASN:HB2	2.36	0.56
1:H:693:LYS:HG2	1:W:400:PHE:CE1	2.41	0.56
1:K:404:MET:HE3	1:K:652:THR:HG21	1.87	0.56
1:M:404:MET:HE3	1:M:652:THR:HG21	1.87	0.56
1:Q:325:VAL:HG22	1:Q:334:ILE:HG12	1.88	0.56
1:R:437:ASN:HB2	1:S:355:VAL:CG1	2.36	0.56
1:S:362:GLY:HA2	1:6:662:PHE:CZ	2.37	0.56
1:V:325:VAL:HG22	1:V:334:ILE:HG12	1.88	0.56
1:V:693:LYS:HG2	1:4:400:PHE:CE1	2.41	0.56
1:X:299:GLN:O	1:X:303:ASN:ND2	2.35	0.56
1:6:721:TYR:HE1	1:h:695:TRP:HE1	1.54	0.56
1:c:437:ASN:HB2	1:d:355:VAL:CG1	2.36	0.56
1:d:693:LYS:HG2	1:e:400:PHE:CE1	2.41	0.56
1:f:404:MET:HE3	1:f:652:THR:HG21	1.87	0.56
1:h:325:VAL:HG22	1:h:334:ILE:HG12	1.88	0.56
1:i:332:LYS:NZ	1:7:657:ASP:OD2	2.29	0.56
1:j:231:ASP:O	1:j:242:THR:OG1	2.22	0.56
1:k:299:GLN:O	1:k:303:ASN:ND2	2.35	0.56
1:l:693:LYS:HG2	1:m:400:PHE:CE1	2.41	0.56
1:o:325:VAL:HG22	1:o:334:ILE:HG12	1.88	0.56
1:q:693:LYS:HG2	1:r:400:PHE:CE1	2.41	0.56
1:t:325:VAL:HG22	1:t:334:ILE:HG12	1.88	0.56
1:u:404:MET:HE3	1:u:652:THR:HG21	1.87	0.56
1:A:693:LYS:HG2	1:G:400:PHE:CE1	2.41	0.55
1:E:693:LYS:HG2	1:Q:400:PHE:CE1	2.41	0.55
1:F:404:MET:HE3	1:F:652:THR:HG21	1.87	0.55
1:K:355:VAL:CG1	1:8:437:ASN:HB2	2.36	0.55
1:K:400:PHE:CE1	1:8:693:LYS:HG2	2.41	0.55
1:M:325:VAL:HG22	1:M:334:ILE:HG12	1.88	0.55
1:O:404:MET:HE3	1:O:652:THR:HG21	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:404:MET:HE3	1:Q:652:THR:HG21	1.87	0.55
1:W:693:LYS:HG2	1:Y:400:PHE:CE1	2.41	0.55
1:X:231:ASP:O	1:X:242:THR:OG1	2.22	0.55
1:c:325:VAL:HG22	1:c:334:ILE:HG12	1.88	0.55
1:c:404:MET:HE3	1:c:652:THR:HG21	1.87	0.55
1:d:404:MET:HE3	1:d:652:THR:HG21	1.87	0.55
1:q:400:PHE:CE1	1:s:693:LYS:HG2	2.41	0.55
1:r:437:ASN:HB2	1:s:355:VAL:CG1	2.36	0.55
1:t:404:MET:HE3	1:t:652:THR:HG21	1.87	0.55
1:w:332:LYS:NZ	1:8:657:ASP:OD2	2.29	0.55
1:y:404:MET:HE3	1:y:652:THR:HG21	1.87	0.55
1:D:355:VAL:CG1	1:P:437:ASN:HB2	2.36	0.55
1:E:355:VAL:CG1	1:F:437:ASN:HB2	2.36	0.55
1:F:325:VAL:HG22	1:F:334:ILE:HG12	1.88	0.55
1:G:437:ASN:HB2	1:I:355:VAL:CG1	2.36	0.55
1:L:325:VAL:HG22	1:L:334:ILE:HG12	1.88	0.55
1:R:355:VAL:CG1	1:U:437:ASN:HB2	2.36	0.55
1:W:437:ASN:HB2	1:Y:355:VAL:CG1	2.36	0.55
1:Z:400:PHE:CE1	1:w:693:LYS:HG2	2.41	0.55
1:Z:437:ASN:HB2	1:x:355:VAL:CG1	2.36	0.55
1:3:355:VAL:CG1	1:j:437:ASN:HB2	2.36	0.55
1:4:404:MET:HE3	1:4:652:THR:HG21	1.87	0.55
1:a:299:GLN:O	1:a:303:ASN:ND2	2.35	0.55
1:c:400:PHE:CE1	1:e:693:LYS:HG2	2.41	0.55
1:e:325:VAL:HG22	1:e:334:ILE:HG12	1.88	0.55
1:f:662:PHE:HZ	1:h:362:GLY:HA2	1.71	0.55
1:y:252:TYR:OH	1:y:374:ILE:O	2.21	0.55
1:y:400:PHE:CE1	1:7:693:LYS:HG2	2.41	0.55
1:E:325:VAL:HG22	1:E:334:ILE:HG12	1.88	0.55
1:E:400:PHE:CE1	1:F:693:LYS:HG2	2.41	0.55
1:G:231:ASP:O	1:G:242:THR:OG1	2.22	0.55
1:H:299:GLN:O	1:H:303:ASN:ND2	2.35	0.55
1:K:252:TYR:OH	1:K:374:ILE:O	2.21	0.55
1:R:404:MET:HE3	1:R:652:THR:HG21	1.87	0.55
1:U:325:VAL:HG22	1:U:334:ILE:HG12	1.88	0.55
1:Z:355:VAL:CG1	1:w:437:ASN:HB2	2.36	0.55
1:a:355:VAL:CG1	1:b:437:ASN:HB2	2.36	0.55
1:d:437:ASN:HB2	1:e:355:VAL:CG1	2.36	0.55
1:e:252:TYR:OH	1:e:374:ILE:O	2.21	0.55
1:l:299:GLN:O	1:l:303:ASN:ND2	2.35	0.55
1:v:325:VAL:HG22	1:v:334:ILE:HG12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:404:MET:HE3	1:w:652:THR:HG21	1.87	0.55
1:y:355:VAL:CG1	1:7:437:ASN:HB2	2.36	0.55
1:C:693:LYS:HG2	1:2:400:PHE:CE1	2.41	0.55
1:E:252:TYR:OH	1:E:374:ILE:O	2.21	0.55
1:O:257:TYR:HB3	1:6:715:VAL:HG11	1.87	0.55
1:R:400:PHE:CE1	1:U:693:LYS:HG2	2.41	0.55
1:T:734:ARG:NH1	1:6:624:HIS:CD2	2.74	0.55
1:V:437:ASN:HB2	1:4:355:VAL:CG1	2.37	0.55
1:W:299:GLN:O	1:W:303:ASN:ND2	2.35	0.55
1:3:325:VAL:HG22	1:3:334:ILE:HG12	1.88	0.55
1:6:325:VAL:HG22	1:6:334:ILE:HG12	1.88	0.55
1:i:437:ASN:HB2	1:j:355:VAL:CG1	2.36	0.55
1:l:437:ASN:HB2	1:m:355:VAL:CG1	2.36	0.55
1:n:355:VAL:CG1	1:p:437:ASN:HB2	2.37	0.55
1:u:693:LYS:HG2	1:v:400:PHE:CE1	2.41	0.55
1:x:325:VAL:HG22	1:x:334:ILE:HG12	1.88	0.55
1:B:437:ASN:HB2	1:J:355:VAL:CG1	2.37	0.55
1:C:437:ASN:HB2	1:2:355:VAL:CG1	2.36	0.55
1:D:299:GLN:O	1:D:303:ASN:ND2	2.35	0.55
1:J:437:ASN:HB2	1:L:355:VAL:CG1	2.37	0.55
1:2:325:VAL:HG22	1:2:334:ILE:HG12	1.88	0.55
1:3:437:ASN:HB2	1:i:355:VAL:CG1	2.36	0.55
1:h:662:PHE:HZ	1:l:362:GLY:HA2	1.71	0.55
1:i:693:LYS:HG2	1:j:400:PHE:CE1	2.41	0.55
1:t:437:ASN:HB2	1:u:355:VAL:CG1	2.36	0.55
1:w:299:GLN:O	1:w:303:ASN:ND2	2.35	0.55
1:w:355:VAL:CG1	1:x:437:ASN:HB2	2.36	0.55
1:8:325:VAL:HG22	1:8:334:ILE:HG12	1.88	0.55
1:C:355:VAL:CG1	1:M:437:ASN:HB2	2.36	0.55
1:R:693:LYS:HG2	1:S:400:PHE:CE1	2.41	0.55
1:i:404:MET:HE3	1:i:652:THR:HG21	1.87	0.55
1:u:437:ASN:HB2	1:v:355:VAL:CG1	2.36	0.55
1:z:325:VAL:HG22	1:z:334:ILE:HG12	1.88	0.55
1:D:437:ASN:HB2	1:N:355:VAL:CG1	2.36	0.55
1:U:231:ASP:O	1:U:242:THR:OG1	2.22	0.55
1:1:325:VAL:HG22	1:1:334:ILE:HG12	1.88	0.55
1:5:355:VAL:CG1	1:a:437:ASN:HB2	2.36	0.55
1:7:325:VAL:HG22	1:7:334:ILE:HG12	1.88	0.55
1:B:355:VAL:CG1	1:L:437:ASN:HB2	2.37	0.55
1:S:407:THR:HG21	1:6:339:THR:CG2	2.37	0.55
1:T:355:VAL:CG1	1:f:437:ASN:HB2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:459:GLN:HE21	1:6:498:ASN:HB2	1.72	0.55
1:6:231:ASP:O	1:6:242:THR:OG1	2.22	0.55
1:i:299:GLN:O	1:i:303:ASN:ND2	2.35	0.55
1:j:299:GLN:O	1:j:303:ASN:ND2	2.35	0.55
1:o:437:ASN:HB2	1:p:355:VAL:CG1	2.37	0.55
1:u:299:GLN:O	1:u:303:ASN:ND2	2.35	0.55
1:7:252:TYR:OH	1:7:374:ILE:O	2.21	0.55
1:G:693:LYS:HG2	1:I:400:PHE:CE1	2.41	0.55
1:Q:420:VAL:HG11	1:Q:638:PHE:HB3	1.89	0.55
1:T:691:ASN:ND2	1:6:351:GLN:HE21	2.05	0.55
1:V:355:VAL:CG1	1:X:437:ASN:HB2	2.37	0.55
1:a:231:ASP:O	1:a:242:THR:OG1	2.22	0.55
1:l:325:VAL:HG22	1:l:334:ILE:HG12	1.88	0.55
1:m:404:MET:HE3	1:m:652:THR:HG21	1.87	0.55
1:n:437:ASN:HB2	1:o:355:VAL:CG1	2.37	0.55
1:p:231:ASP:O	1:p:242:THR:OG1	2.22	0.55
1:p:325:VAL:HG22	1:p:334:ILE:HG12	1.88	0.55
1:A:497:ASN:HD22	1:I:590:GLN:HA	1.72	0.55
1:B:231:ASP:O	1:B:242:THR:OG1	2.22	0.55
1:B:325:VAL:HG22	1:B:334:ILE:HG12	1.88	0.55
1:C:299:GLN:O	1:C:303:ASN:ND2	2.35	0.55
1:G:325:VAL:HG22	1:G:334:ILE:HG12	1.88	0.55
1:I:325:VAL:HG22	1:I:334:ILE:HG12	1.88	0.55
1:K:437:ASN:HB2	1:l:355:VAL:CG1	2.36	0.55
1:Y:404:MET:HE3	1:Y:652:THR:HG21	1.87	0.55
1:Z:299:GLN:O	1:Z:303:ASN:ND2	2.35	0.55
1:Z:325:VAL:HG22	1:Z:334:ILE:HG12	1.88	0.55
1:4:231:ASP:O	1:4:242:THR:OG1	2.22	0.55
1:5:252:TYR:OH	1:5:374:ILE:O	2.21	0.55
1:c:355:VAL:CG1	1:e:437:ASN:HB2	2.36	0.55
1:c:420:VAL:HG11	1:c:638:PHE:HB3	1.89	0.55
1:s:325:VAL:HG22	1:s:334:ILE:HG12	1.88	0.55
1:y:437:ASN:HB2	1:z:355:VAL:CG1	2.36	0.55
1:D:420:VAL:HG11	1:D:638:PHE:HB3	1.89	0.54
1:R:420:VAL:HG11	1:R:638:PHE:HB3	1.89	0.54
1:W:325:VAL:HG22	1:W:334:ILE:HG12	1.88	0.54
1:Y:420:VAL:HG11	1:Y:638:PHE:HB3	1.89	0.54
1:l:252:TYR:OH	1:l:374:ILE:O	2.21	0.54
1:d:420:VAL:HG11	1:d:638:PHE:HB3	1.90	0.54
1:k:420:VAL:HG11	1:k:638:PHE:HB3	1.89	0.54
1:l:420:VAL:HG11	1:l:638:PHE:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:693:LYS:HG2	1:s:400:PHE:CE1	2.41	0.54
1:8:252:TYR:OH	1:8:374:ILE:O	2.21	0.54
1:E:437:ASN:HB2	1:Q:355:VAL:CG1	2.36	0.54
1:F:420:VAL:HG11	1:F:638:PHE:HB3	1.90	0.54
1:N:252:TYR:OH	1:N:374:ILE:O	2.22	0.54
1:V:420:VAL:HG11	1:V:638:PHE:HB3	1.89	0.54
1:W:420:VAL:HG11	1:W:638:PHE:HB3	1.89	0.54
1:X:325:VAL:HG22	1:X:334:ILE:HG12	1.88	0.54
1:5:590:GLN:HA	1:b:497:ASN:HD22	1.73	0.54
1:a:420:VAL:HG11	1:a:638:PHE:HB3	1.89	0.54
1:f:420:VAL:HG11	1:f:638:PHE:HB3	1.90	0.54
1:g:590:GLN:HA	1:h:497:ASN:HD22	1.69	0.54
1:m:420:VAL:HG11	1:m:638:PHE:HB3	1.90	0.54
1:z:252:TYR:OH	1:z:374:ILE:O	2.21	0.54
1:A:325:VAL:HG22	1:A:334:ILE:HG12	1.88	0.54
1:G:420:VAL:HG11	1:G:638:PHE:HB3	1.89	0.54
1:H:420:VAL:HG11	1:H:638:PHE:HB3	1.90	0.54
1:H:590:GLN:HA	1:W:497:ASN:HD22	1.72	0.54
1:Z:420:VAL:HG11	1:Z:638:PHE:HB3	1.89	0.54
1:6:252:TYR:OH	1:6:374:ILE:O	2.21	0.54
1:j:325:VAL:HG22	1:j:334:ILE:HG12	1.88	0.54
1:r:325:VAL:HG22	1:r:334:ILE:HG12	1.88	0.54
1:r:420:VAL:HG11	1:r:638:PHE:HB3	1.89	0.54
1:I:420:VAL:HG11	1:I:638:PHE:HB3	1.89	0.54
1:M:420:VAL:HG11	1:M:638:PHE:HB3	1.89	0.54
1:N:420:VAL:HG11	1:N:638:PHE:HB3	1.89	0.54
1:O:325:VAL:HG22	1:O:334:ILE:HG12	1.88	0.54
1:6:585:GLN:HG2	1:f:488:ARG:O	2.08	0.54
1:g:325:VAL:HG22	1:g:334:ILE:HG12	1.88	0.54
1:h:420:VAL:HG11	1:h:638:PHE:HB3	1.90	0.54
1:o:420:VAL:HG11	1:o:638:PHE:HB3	1.89	0.54
1:C:590:GLN:HA	1:2:497:ASN:HD22	1.73	0.54
1:L:420:VAL:HG11	1:L:638:PHE:HB3	1.89	0.54
1:S:700:GLN:HB2	1:T:702:THR:HG22	1.89	0.54
1:U:252:TYR:OH	1:U:374:ILE:O	2.21	0.54
1:X:420:VAL:HG11	1:X:638:PHE:HB3	1.89	0.54
1:Y:325:VAL:HG22	1:Y:334:ILE:HG12	1.88	0.54
1:5:420:VAL:HG11	1:5:638:PHE:HB3	1.89	0.54
1:n:325:VAL:HG22	1:n:334:ILE:HG12	1.88	0.54
1:q:325:VAL:HG22	1:q:334:ILE:HG12	1.88	0.54
1:s:420:VAL:HG11	1:s:638:PHE:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:420:VAL:HG11	1:t:638:PHE:HB3	1.90	0.54
1:N:590:GLN:HA	1:P:497:ASN:HD22	1.73	0.54
1:4:325:VAL:HG22	1:4:334:ILE:HG12	1.88	0.54
1:4:420:VAL:HG11	1:4:638:PHE:HB3	1.89	0.54
1:a:657:ASP:OD2	1:e:332:LYS:NZ	2.29	0.54
1:h:299:GLN:O	1:h:303:ASN:ND2	2.35	0.54
1:i:420:VAL:HG11	1:i:638:PHE:HB3	1.89	0.54
1:j:420:VAL:HG11	1:j:638:PHE:HB3	1.90	0.54
1:m:325:VAL:HG22	1:m:334:ILE:HG12	1.88	0.54
1:q:497:ASN:HD22	1:s:590:GLN:HA	1.73	0.54
1:w:420:VAL:HG11	1:w:638:PHE:HB3	1.89	0.54
1:B:420:VAL:HG11	1:B:638:PHE:HB3	1.89	0.54
1:J:325:VAL:HG22	1:J:334:ILE:HG12	1.88	0.54
1:K:420:VAL:HG11	1:K:638:PHE:HB3	1.89	0.54
1:O:420:VAL:HG11	1:O:638:PHE:HB3	1.90	0.54
1:b:231:ASP:O	1:b:242:THR:OG1	2.22	0.54
1:b:299:GLN:O	1:b:303:ASN:ND2	2.35	0.54
1:d:299:GLN:O	1:d:303:ASN:ND2	2.35	0.54
1:g:420:VAL:HG11	1:g:638:PHE:HB3	1.89	0.54
1:o:332:LYS:NZ	1:v:657:ASP:OD2	2.28	0.54
1:A:590:GLN:HA	1:G:497:ASN:HD22	1.73	0.54
1:F:252:TYR:OH	1:F:374:ILE:O	2.21	0.54
1:H:497:ASN:HD22	1:Y:590:GLN:HA	1.73	0.54
1:Z:590:GLN:HA	1:x:497:ASN:HD22	1.73	0.54
1:6:437:ASN:HB2	1:f:355:VAL:HG13	1.90	0.54
1:a:497:ASN:HD22	1:b:590:GLN:HA	1.73	0.54
1:k:590:GLN:HA	1:l:497:ASN:HD22	1.73	0.54
1:p:420:VAL:HG11	1:p:638:PHE:HB3	1.89	0.54
1:q:252:TYR:OH	1:q:374:ILE:O	2.21	0.54
1:u:590:GLN:HA	1:v:497:ASN:HD22	1.73	0.54
1:y:420:VAL:HG11	1:y:638:PHE:HB3	1.89	0.54
1:B:546:GLN:NE2	1:B:721:TYR:O	2.41	0.54
1:D:590:GLN:HA	1:N:497:ASN:HD22	1.73	0.54
1:F:497:ASN:HD22	1:Q:590:GLN:HA	1.73	0.54
1:M:546:GLN:NE2	1:M:721:TYR:O	2.41	0.54
1:P:299:GLN:O	1:P:303:ASN:ND2	2.35	0.54
1:S:325:VAL:HG22	1:S:334:ILE:HG12	1.88	0.54
1:T:325:VAL:HG22	1:T:334:ILE:HG12	1.88	0.54
1:T:567:LYS:HB3	1:6:512:ASN:ND2	2.23	0.54
1:U:420:VAL:HG11	1:U:638:PHE:HB3	1.89	0.54
1:V:299:GLN:O	1:V:303:ASN:ND2	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:590:GLN:HA	1:8:497:ASN:HD22	1.73	0.54
1:3:590:GLN:HA	1:i:497:ASN:HD22	1.73	0.54
1:b:420:VAL:HG11	1:b:638:PHE:HB3	1.89	0.54
1:c:590:GLN:HA	1:d:497:ASN:HD22	1.73	0.54
1:e:420:VAL:HG11	1:e:638:PHE:HB3	1.90	0.54
1:f:659:PRO:HG2	1:h:373:MET:HE1	1.88	0.54
1:p:546:GLN:NE2	1:p:721:TYR:O	2.41	0.54
1:z:590:GLN:HA	1:7:497:ASN:HD22	1.73	0.54
1:E:420:VAL:HG11	1:E:638:PHE:HB3	1.89	0.54
1:F:299:GLN:O	1:F:303:ASN:ND2	2.35	0.54
1:H:325:VAL:HG22	1:H:334:ILE:HG12	1.88	0.54
1:N:546:GLN:NE2	1:N:721:TYR:O	2.41	0.54
1:P:231:ASP:O	1:P:242:THR:OG1	2.22	0.54
1:P:420:VAL:HG11	1:P:638:PHE:HB3	1.89	0.54
1:S:299:GLN:O	1:S:303:ASN:ND2	2.35	0.54
1:T:299:GLN:O	1:T:303:ASN:ND2	2.35	0.54
1:W:590:GLN:HA	1:Y:497:ASN:HD22	1.73	0.54
1:5:497:ASN:HD22	1:a:590:GLN:HA	1.73	0.54
1:5:546:GLN:NE2	1:5:721:TYR:O	2.41	0.54
1:d:252:TYR:OH	1:d:374:ILE:O	2.22	0.54
1:j:332:LYS:NZ	1:k:657:ASP:OD2	2.28	0.54
1:t:546:GLN:NE2	1:t:721:TYR:O	2.41	0.54
1:A:252:TYR:OH	1:A:374:ILE:O	2.21	0.53
1:C:420:VAL:HG11	1:C:638:PHE:HB3	1.89	0.53
1:J:420:VAL:HG11	1:J:638:PHE:HB3	1.89	0.53
1:L:332:LYS:NZ	1:2:657:ASP:OD2	2.28	0.53
1:X:355:VAL:CG1	1:4:437:ASN:HB2	2.37	0.53
1:1:420:VAL:HG11	1:1:638:PHE:HB3	1.89	0.53
1:2:420:VAL:HG11	1:2:638:PHE:HB3	1.89	0.53
1:2:546:GLN:NE2	1:2:721:TYR:O	2.41	0.53
1:3:497:ASN:HD22	1:j:590:GLN:HA	1.73	0.53
1:6:420:VAL:HG11	1:6:638:PHE:HB3	1.90	0.53
1:k:497:ASN:HD22	1:m:590:GLN:HA	1.73	0.53
1:q:590:GLN:HA	1:r:497:ASN:HD22	1.73	0.53
1:v:546:GLN:NE2	1:v:721:TYR:O	2.41	0.53
1:w:497:ASN:HD22	1:x:590:GLN:HA	1.73	0.53
1:D:497:ASN:HD22	1:P:590:GLN:HA	1.73	0.53
1:E:590:GLN:HA	1:Q:497:ASN:HD22	1.73	0.53
1:K:590:GLN:HA	1:1:497:ASN:HD22	1.73	0.53
1:Y:231:ASP:O	1:Y:242:THR:OG1	2.22	0.53
1:c:497:ASN:HD22	1:e:590:GLN:HA	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:325:VAL:HG22	1:k:334:ILE:HG12	1.88	0.53
1:m:231:ASP:O	1:m:242:THR:OG1	2.22	0.53
1:n:420:VAL:HG11	1:n:638:PHE:HB3	1.90	0.53
1:u:420:VAL:HG11	1:u:638:PHE:HB3	1.89	0.53
1:v:420:VAL:HG11	1:v:638:PHE:HB3	1.89	0.53
1:y:590:GLN:HA	1:z:497:ASN:HD22	1.73	0.53
1:z:420:VAL:HG11	1:z:638:PHE:HB3	1.90	0.53
1:E:546:GLN:NE2	1:E:721:TYR:O	2.41	0.53
1:F:546:GLN:NE2	1:F:721:TYR:O	2.41	0.53
1:K:546:GLN:NE2	1:K:721:TYR:O	2.41	0.53
1:O:581:ALA:O	1:g:485:ARG:HD2	2.08	0.53
1:R:497:ASN:HD22	1:U:590:GLN:HA	1.73	0.53
1:S:546:GLN:NE2	1:S:721:TYR:O	2.41	0.53
1:T:420:VAL:HG11	1:T:638:PHE:HB3	1.89	0.53
1:T:546:GLN:NE2	1:T:721:TYR:O	2.41	0.53
1:d:546:GLN:NE2	1:d:721:TYR:O	2.41	0.53
1:G:590:GLN:HA	1:I:497:ASN:HD22	1.73	0.53
1:H:231:ASP:O	1:H:242:THR:OG1	2.22	0.53
1:4:299:GLN:O	1:4:303:ASN:ND2	2.35	0.53
1:e:546:GLN:NE2	1:e:721:TYR:O	2.41	0.53
1:g:415:TYR:OH	1:g:642:HIS:O	2.26	0.53
1:j:546:GLN:NE2	1:j:721:TYR:O	2.41	0.53
1:k:546:GLN:NE2	1:k:721:TYR:O	2.41	0.53
1:l:590:GLN:HA	1:m:497:ASN:HD22	1.73	0.53
1:r:590:GLN:HA	1:s:497:ASN:HD22	1.73	0.53
1:v:415:TYR:OH	1:v:642:HIS:O	2.26	0.53
1:x:299:GLN:O	1:x:303:ASN:ND2	2.35	0.53
1:y:546:GLN:NE2	1:y:721:TYR:O	2.41	0.53
1:A:420:VAL:HG11	1:A:638:PHE:HB3	1.89	0.53
1:A:546:GLN:NE2	1:A:721:TYR:O	2.41	0.53
1:B:590:GLN:HA	1:J:497:ASN:HD22	1.73	0.53
1:H:546:GLN:NE2	1:H:721:TYR:O	2.41	0.53
1:S:420:VAL:HG11	1:S:638:PHE:HB3	1.89	0.53
1:T:400:PHE:CE1	1:f:693:LYS:HG2	2.43	0.53
1:X:415:TYR:OH	1:X:642:HIS:O	2.26	0.53
1:2:415:TYR:OH	1:2:642:HIS:O	2.26	0.53
1:3:299:GLN:O	1:3:303:ASN:ND2	2.35	0.53
1:5:657:ASP:OD2	1:t:332:LYS:NZ	2.29	0.53
1:k:231:ASP:O	1:k:242:THR:OG1	2.22	0.53
1:q:546:GLN:NE2	1:q:721:TYR:O	2.41	0.53
1:r:546:GLN:NE2	1:r:721:TYR:O	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:424:SER:HB2	1:C:426:TYR:CE2	2.44	0.53
1:E:299:GLN:O	1:E:303:ASN:ND2	2.35	0.53
1:G:546:GLN:NE2	1:G:721:TYR:O	2.41	0.53
1:J:332:LYS:NZ	1:1:657:ASP:OD2	2.29	0.53
1:Z:546:GLN:NE2	1:Z:721:TYR:O	2.41	0.53
1:3:252:TYR:OH	1:3:374:ILE:O	2.21	0.53
1:g:424:SER:HB2	1:g:426:TYR:CE2	2.44	0.53
1:i:590:GLN:HA	1:j:497:ASN:HD22	1.73	0.53
1:l:546:GLN:NE2	1:l:721:TYR:O	2.41	0.53
1:n:497:ASN:HD22	1:p:590:GLN:HA	1.73	0.53
1:p:424:SER:HB2	1:p:426:TYR:CE2	2.44	0.53
1:q:420:VAL:HG11	1:q:638:PHE:HB3	1.89	0.53
1:u:424:SER:HB2	1:u:426:TYR:CE2	2.44	0.53
1:B:424:SER:HB2	1:B:426:TYR:CE2	2.44	0.53
1:B:657:ASP:OD2	1:C:332:LYS:NZ	2.29	0.53
1:D:546:GLN:NE2	1:D:721:TYR:O	2.41	0.53
1:N:424:SER:HB2	1:N:426:TYR:CE2	2.44	0.53
1:O:299:GLN:O	1:O:303:ASN:ND2	2.35	0.53
1:S:250:PRO:HB3	1:6:658:PRO:HB2	1.91	0.53
1:W:424:SER:HB2	1:W:426:TYR:CE2	2.44	0.53
1:W:546:GLN:NE2	1:W:721:TYR:O	2.41	0.53
1:X:424:SER:HB2	1:X:426:TYR:CE2	2.44	0.53
1:5:415:TYR:OH	1:5:642:HIS:O	2.26	0.53
1:f:424:SER:HB2	1:f:426:TYR:CE2	2.44	0.53
1:l:424:SER:HB2	1:l:426:TYR:CE2	2.44	0.53
1:t:497:ASN:HD22	1:v:590:GLN:HA	1.73	0.53
1:y:497:ASN:HD22	1:7:590:GLN:HA	1.73	0.53
1:z:546:GLN:NE2	1:z:721:TYR:O	2.41	0.53
1:A:424:SER:HB2	1:A:426:TYR:CE2	2.44	0.53
1:H:657:ASP:OD2	1:Z:332:LYS:NZ	2.29	0.53
1:M:415:TYR:OH	1:M:642:HIS:O	2.27	0.53
1:N:415:TYR:OH	1:N:642:HIS:O	2.26	0.53
1:Z:497:ASN:HD22	1:w:590:GLN:HA	1.73	0.53
1:5:424:SER:HB2	1:5:426:TYR:CE2	2.44	0.53
1:a:546:GLN:NE2	1:a:721:TYR:O	2.41	0.53
1:q:424:SER:HB2	1:q:426:TYR:CE2	2.44	0.53
1:8:424:SER:HB2	1:8:426:TYR:CE2	2.44	0.53
1:I:424:SER:HB2	1:I:426:TYR:CE2	2.44	0.53
1:K:497:ASN:HD22	1:8:590:GLN:HA	1.73	0.53
1:M:497:ASN:HD22	1:2:590:GLN:HA	1.73	0.53
1:N:299:GLN:O	1:N:303:ASN:ND2	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:424:SER:HB2	1:R:426:TYR:CE2	2.44	0.53
1:V:346:THR:HG22	1:V:647:ILE:HG13	1.91	0.53
1:V:424:SER:HB2	1:V:426:TYR:CE2	2.44	0.53
1:W:322:VAL:CG1	1:W:673:GLN:HE21	2.22	0.53
1:Y:546:GLN:NE2	1:Y:721:TYR:O	2.41	0.53
1:1:546:GLN:NE2	1:1:721:TYR:O	2.41	0.53
1:k:424:SER:HB2	1:k:426:TYR:CE2	2.44	0.53
1:m:546:GLN:NE2	1:m:721:TYR:O	2.41	0.53
1:t:415:TYR:OH	1:t:642:HIS:O	2.27	0.53
1:w:546:GLN:NE2	1:w:721:TYR:O	2.41	0.53
1:z:231:ASP:O	1:z:242:THR:OG1	2.22	0.53
1:D:424:SER:HB2	1:D:426:TYR:CE2	2.44	0.53
1:E:322:VAL:CG1	1:E:673:GLN:HE21	2.22	0.53
1:I:546:GLN:NE2	1:I:721:TYR:O	2.41	0.53
1:K:346:THR:HG22	1:K:647:ILE:HG13	1.91	0.53
1:O:462:LYS:NZ	1:g:554:ASP:OD1	2.35	0.53
1:U:346:THR:HG22	1:U:647:ILE:HG13	1.91	0.53
1:Y:415:TYR:OH	1:Y:642:HIS:O	2.26	0.53
1:1:424:SER:HB2	1:1:426:TYR:CE2	2.44	0.53
1:2:424:SER:HB2	1:2:426:TYR:CE2	2.44	0.53
1:3:424:SER:HB2	1:3:426:TYR:CE2	2.44	0.53
1:4:262:ASN:ND2	1:4:273:ALA:HA	2.24	0.53
1:a:424:SER:HB2	1:a:426:TYR:CE2	2.44	0.53
1:d:346:THR:HG22	1:d:647:ILE:HG13	1.91	0.53
1:e:262:ASN:ND2	1:e:273:ALA:HA	2.24	0.53
1:e:322:VAL:CG1	1:e:673:GLN:HE21	2.22	0.53
1:h:346:THR:HG22	1:h:647:ILE:HG13	1.91	0.53
1:h:424:SER:HB2	1:h:426:TYR:CE2	2.44	0.53
1:l:322:VAL:CG1	1:l:673:GLN:HE21	2.22	0.53
1:s:424:SER:HB2	1:s:426:TYR:CE2	2.44	0.53
1:s:546:GLN:NE2	1:s:721:TYR:O	2.41	0.53
1:v:424:SER:HB2	1:v:426:TYR:CE2	2.44	0.53
1:x:424:SER:HB2	1:x:426:TYR:CE2	2.44	0.53
1:y:346:THR:HG22	1:y:647:ILE:HG13	1.91	0.53
1:7:424:SER:HB2	1:7:426:TYR:CE2	2.44	0.53
1:8:322:VAL:CG1	1:8:673:GLN:HE21	2.22	0.53
1:E:346:THR:HG22	1:E:647:ILE:HG13	1.91	0.52
1:F:346:THR:HG22	1:F:647:ILE:HG13	1.91	0.52
1:G:424:SER:HB2	1:G:426:TYR:CE2	2.44	0.52
1:H:424:SER:HB2	1:H:426:TYR:CE2	2.44	0.52
1:P:262:ASN:ND2	1:P:273:ALA:HA	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:415:TYR:OH	1:Q:642:HIS:O	2.26	0.52
1:T:434:ARG:NH2	1:6:271:ASP:O	2.40	0.52
1:2:231:ASP:O	1:2:242:THR:OG1	2.22	0.52
1:5:262:ASN:ND2	1:5:273:ALA:HA	2.24	0.52
1:5:299:GLN:O	1:5:303:ASN:ND2	2.35	0.52
1:6:346:THR:HG22	1:6:647:ILE:HG13	1.91	0.52
1:c:231:ASP:O	1:c:242:THR:OG1	2.22	0.52
1:e:346:THR:HG22	1:e:647:ILE:HG13	1.91	0.52
1:i:546:GLN:NE2	1:i:721:TYR:O	2.41	0.52
1:r:424:SER:HB2	1:r:426:TYR:CE2	2.44	0.52
1:z:424:SER:HB2	1:z:426:TYR:CE2	2.44	0.52
1:7:262:ASN:ND2	1:7:273:ALA:HA	2.24	0.52
1:7:322:VAL:CG1	1:7:673:GLN:HE21	2.22	0.52
1:I:231:ASP:O	1:I:242:THR:OG1	2.22	0.52
1:I:346:THR:HG22	1:I:647:ILE:HG13	1.91	0.52
1:J:346:THR:HG22	1:J:647:ILE:HG13	1.91	0.52
1:L:424:SER:HB2	1:L:426:TYR:CE2	2.44	0.52
1:N:262:ASN:ND2	1:N:273:ALA:HA	2.24	0.52
1:N:322:VAL:CG1	1:N:673:GLN:HE21	2.22	0.52
1:T:441:ASP:CG	1:6:550:ARG:HH12	1.95	0.52
1:Z:424:SER:HB2	1:Z:426:TYR:CE2	2.44	0.52
1:5:322:VAL:CG1	1:5:673:GLN:HE21	2.22	0.52
1:a:415:TYR:OH	1:a:642:HIS:O	2.27	0.52
1:c:424:SER:HB2	1:c:426:TYR:CE2	2.44	0.52
1:d:262:ASN:ND2	1:d:273:ALA:HA	2.23	0.52
1:g:437:ASN:HB2	1:h:355:VAL:CG1	2.39	0.52
1:j:424:SER:HB2	1:j:426:TYR:CE2	2.44	0.52
1:n:346:THR:HG22	1:n:647:ILE:HG13	1.91	0.52
1:o:424:SER:HB2	1:o:426:TYR:CE2	2.44	0.52
1:p:322:VAL:CG1	1:p:673:GLN:HE21	2.22	0.52
1:7:546:GLN:NE2	1:7:721:TYR:O	2.41	0.52
1:8:262:ASN:ND2	1:8:273:ALA:HA	2.24	0.52
1:8:546:GLN:NE2	1:8:721:TYR:O	2.41	0.52
1:B:322:VAL:CG1	1:B:673:GLN:HE21	2.22	0.52
1:C:231:ASP:O	1:C:242:THR:OG1	2.22	0.52
1:D:415:TYR:OH	1:D:642:HIS:O	2.27	0.52
1:E:262:ASN:ND2	1:E:273:ALA:HA	2.24	0.52
1:H:346:THR:HG22	1:H:647:ILE:HG13	1.91	0.52
1:M:346:THR:HG22	1:M:647:ILE:HG13	1.92	0.52
1:P:546:GLN:NE2	1:P:721:TYR:O	2.41	0.52
1:Q:424:SER:HB2	1:Q:426:TYR:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:262:ASN:ND2	1:b:273:ALA:HA	2.24	0.52
1:b:424:SER:HB2	1:b:426:TYR:CE2	2.44	0.52
1:b:546:GLN:NE2	1:b:721:TYR:O	2.41	0.52
1:c:415:TYR:OH	1:c:642:HIS:O	2.27	0.52
1:h:322:VAL:CG1	1:h:673:GLN:HE21	2.22	0.52
1:l:415:TYR:OH	1:l:642:HIS:O	2.27	0.52
1:n:231:ASP:O	1:n:242:THR:OG1	2.22	0.52
1:s:231:ASP:O	1:s:242:THR:OG1	2.22	0.52
1:s:346:THR:HG22	1:s:647:ILE:HG13	1.92	0.52
1:t:346:THR:HG22	1:t:647:ILE:HG13	1.92	0.52
1:u:546:GLN:NE2	1:u:721:TYR:O	2.41	0.52
1:C:546:GLN:NE2	1:C:721:TYR:O	2.41	0.52
1:G:346:THR:HG22	1:G:647:ILE:HG13	1.91	0.52
1:N:332:LYS:NZ	1:g:657:ASP:OD2	2.28	0.52
1:P:322:VAL:CG1	1:P:673:GLN:HE21	2.22	0.52
1:S:590:GLN:HA	1:U:497:ASN:HD22	1.74	0.52
1:V:252:TYR:OH	1:V:374:ILE:O	2.21	0.52
1:V:322:VAL:CG1	1:V:673:GLN:HE21	2.22	0.52
1:V:590:GLN:HA	1:4:497:ASN:HD22	1.74	0.52
1:W:346:THR:HG22	1:W:647:ILE:HG13	1.91	0.52
1:1:231:ASP:O	1:1:242:THR:OG1	2.22	0.52
1:3:420:VAL:HG11	1:3:638:PHE:HB3	1.89	0.52
1:a:322:VAL:CG1	1:a:673:GLN:HE21	2.22	0.52
1:b:322:VAL:CG1	1:b:673:GLN:HE21	2.22	0.52
1:f:415:TYR:OH	1:f:642:HIS:O	2.26	0.52
1:h:252:TYR:OH	1:h:374:ILE:O	2.21	0.52
1:k:346:THR:HG22	1:k:647:ILE:HG13	1.92	0.52
1:l:346:THR:HG22	1:l:647:ILE:HG13	1.91	0.52
1:w:322:VAL:CG1	1:w:673:GLN:HE21	2.22	0.52
1:C:497:ASN:HD22	1:M:590:GLN:HA	1.73	0.52
1:D:322:VAL:CG1	1:D:673:GLN:HE21	2.22	0.52
1:O:257:TYR:CB	1:6:715:VAL:HG11	2.38	0.52
1:P:424:SER:HB2	1:P:426:TYR:CE2	2.44	0.52
1:Q:546:GLN:NE2	1:Q:721:TYR:O	2.41	0.52
1:R:657:ASP:OD2	1:V:332:LYS:NZ	2.28	0.52
1:W:415:TYR:OH	1:W:642:HIS:O	2.27	0.52
1:Y:424:SER:HB2	1:Y:426:TYR:CE2	2.44	0.52
1:6:608:GLN:HA	1:f:626:ASP:HB2	1.91	0.52
1:i:322:VAL:CG1	1:i:673:GLN:HE21	2.22	0.52
1:k:415:TYR:OH	1:k:642:HIS:O	2.26	0.52
1:r:346:THR:HG22	1:r:647:ILE:HG13	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:590:GLN:HA	1:u:497:ASN:HD22	1.73	0.52
1:A:415:TYR:OH	1:A:642:HIS:O	2.26	0.52
1:O:546:GLN:NE2	1:O:721:TYR:O	2.41	0.52
1:Q:299:GLN:O	1:Q:303:ASN:ND2	2.35	0.52
1:Q:346:THR:HG22	1:Q:647:ILE:HG13	1.92	0.52
1:R:415:TYR:OH	1:R:642:HIS:O	2.26	0.52
1:2:490:SER:HA	1:2:534:PHE:HA	1.92	0.52
1:3:322:VAL:CG1	1:3:673:GLN:HE21	2.22	0.52
1:4:546:GLN:NE2	1:4:721:TYR:O	2.41	0.52
1:6:424:SER:HB2	1:6:426:TYR:CE2	2.44	0.52
1:c:346:THR:HG22	1:c:647:ILE:HG13	1.91	0.52
1:c:546:GLN:NE2	1:c:721:TYR:O	2.41	0.52
1:d:424:SER:HB2	1:d:426:TYR:CE2	2.44	0.52
1:g:546:GLN:NE2	1:g:721:TYR:O	2.41	0.52
1:h:546:GLN:NE2	1:h:721:TYR:O	2.41	0.52
1:m:262:ASN:ND2	1:m:273:ALA:HA	2.24	0.52
1:m:424:SER:HB2	1:m:426:TYR:CE2	2.44	0.52
1:q:415:TYR:OH	1:q:642:HIS:O	2.26	0.52
1:u:231:ASP:O	1:u:242:THR:OG1	2.22	0.52
1:v:490:SER:HA	1:v:534:PHE:HA	1.92	0.52
1:w:424:SER:HB2	1:w:426:TYR:CE2	2.44	0.52
1:C:490:SER:HA	1:C:534:PHE:HA	1.92	0.52
1:E:415:TYR:OH	1:E:642:HIS:O	2.27	0.52
1:E:497:ASN:HD22	1:F:590:GLN:HA	1.73	0.52
1:F:424:SER:HB2	1:F:426:TYR:CE2	2.44	0.52
1:O:339:THR:HG23	1:6:336:ASN:HD21	1.74	0.52
1:Q:490:SER:HA	1:Q:534:PHE:HA	1.92	0.52
1:T:424:SER:HB2	1:T:426:TYR:CE2	2.44	0.52
1:U:424:SER:HB2	1:U:426:TYR:CE2	2.44	0.52
1:X:546:GLN:NE2	1:X:721:TYR:O	2.41	0.52
1:Y:262:ASN:ND2	1:Y:273:ALA:HA	2.24	0.52
1:c:299:GLN:O	1:c:303:ASN:ND2	2.35	0.52
1:c:322:VAL:CG1	1:c:673:GLN:HE21	2.22	0.52
1:c:490:SER:HA	1:c:534:PHE:HA	1.92	0.52
1:d:590:GLN:HA	1:e:497:ASN:HD22	1.73	0.52
1:e:415:TYR:OH	1:e:642:HIS:O	2.27	0.52
1:i:424:SER:HB2	1:i:426:TYR:CE2	2.44	0.52
1:u:490:SER:HA	1:u:534:PHE:HA	1.92	0.52
1:x:322:VAL:CG1	1:x:673:GLN:HE21	2.22	0.52
1:x:420:VAL:HG11	1:x:638:PHE:HB3	1.90	0.52
1:A:490:SER:HA	1:A:534:PHE:HA	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:252:TYR:OH	1:D:374:ILE:O	2.21	0.52
1:H:415:TYR:OH	1:H:642:HIS:O	2.27	0.52
1:J:424:SER:HB2	1:J:426:TYR:CE2	2.44	0.52
1:J:590:GLN:HA	1:L:497:ASN:HD22	1.75	0.52
1:K:322:VAL:CG1	1:K:673:GLN:HE21	2.22	0.52
1:Q:322:VAL:CG1	1:Q:673:GLN:HE21	2.22	0.52
1:R:322:VAL:CG1	1:R:673:GLN:HE21	2.22	0.52
1:3:346:THR:HG22	1:3:647:ILE:HG13	1.91	0.52
1:6:711:VAL:CG1	1:h:696:ASN:HD22	2.23	0.52
1:f:546:GLN:NE2	1:f:721:TYR:O	2.41	0.52
1:i:324:GLU:HB2	1:i:337:ASN:OD1	2.10	0.52
1:k:252:TYR:OH	1:k:374:ILE:O	2.21	0.52
1:n:424:SER:HB2	1:n:426:TYR:CE2	2.44	0.52
1:q:490:SER:HA	1:q:534:PHE:HA	1.92	0.52
1:x:346:THR:HG22	1:x:647:ILE:HG13	1.91	0.52
1:z:322:VAL:CG1	1:z:673:GLN:HE21	2.22	0.52
1:7:420:VAL:HG11	1:7:638:PHE:HB3	1.89	0.52
1:8:420:VAL:HG11	1:8:638:PHE:HB3	1.89	0.52
1:C:529:GLU:O	1:C:567:LYS:NZ	2.43	0.52
1:E:424:SER:HB2	1:E:426:TYR:CE2	2.44	0.52
1:J:322:VAL:CG1	1:J:673:GLN:HE21	2.22	0.52
1:R:546:GLN:NE2	1:R:721:TYR:O	2.41	0.52
1:S:424:SER:HB2	1:S:426:TYR:CE2	2.44	0.52
1:V:546:GLN:NE2	1:V:721:TYR:O	2.41	0.52
1:X:490:SER:HA	1:X:534:PHE:HA	1.92	0.52
1:X:497:ASN:HD22	1:4:590:GLN:HA	1.75	0.52
1:2:322:VAL:CG1	1:2:673:GLN:HE21	2.22	0.52
1:3:490:SER:HA	1:3:534:PHE:HA	1.92	0.52
1:4:322:VAL:CG1	1:4:673:GLN:HE21	2.22	0.52
1:b:415:TYR:OH	1:b:642:HIS:O	2.26	0.52
1:b:490:SER:HA	1:b:534:PHE:HA	1.92	0.52
1:e:424:SER:HB2	1:e:426:TYR:CE2	2.44	0.52
1:f:322:VAL:CG1	1:f:673:GLN:HE21	2.22	0.52
1:g:490:SER:HA	1:g:534:PHE:HA	1.92	0.52
1:n:322:VAL:CG1	1:n:673:GLN:HE21	2.22	0.52
1:n:590:GLN:HA	1:o:497:ASN:HD22	1.75	0.52
1:q:322:VAL:CG1	1:q:673:GLN:HE21	2.22	0.52
1:t:490:SER:HA	1:t:534:PHE:HA	1.92	0.52
1:u:529:GLU:O	1:u:567:LYS:NZ	2.43	0.52
1:x:490:SER:HA	1:x:534:PHE:HA	1.92	0.52
1:y:424:SER:HB2	1:y:426:TYR:CE2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:322:VAL:CG1	1:A:673:GLN:HE21	2.22	0.52
1:H:252:TYR:OH	1:H:374:ILE:O	2.21	0.52
1:M:490:SER:HA	1:M:534:PHE:HA	1.92	0.52
1:O:322:VAL:CG1	1:O:673:GLN:HE21	2.22	0.52
1:P:490:SER:HA	1:P:534:PHE:HA	1.92	0.52
1:Q:324:GLU:HB2	1:Q:337:ASN:OD1	2.10	0.52
1:Y:490:SER:HA	1:Y:534:PHE:HA	1.92	0.52
1:Z:657:ASP:OD2	1:1:332:LYS:NZ	2.29	0.52
1:1:322:VAL:CG1	1:1:673:GLN:HE21	2.22	0.52
1:d:231:ASP:O	1:d:242:THR:OG1	2.22	0.52
1:e:529:GLU:O	1:e:567:LYS:NZ	2.43	0.52
1:i:529:GLU:O	1:i:567:LYS:NZ	2.43	0.52
1:j:657:ASP:OD2	1:z:332:LYS:NZ	2.29	0.52
1:m:322:VAL:CG1	1:m:673:GLN:HE21	2.22	0.52
1:m:490:SER:HA	1:m:534:PHE:HA	1.92	0.52
1:o:590:GLN:HA	1:p:497:ASN:HD22	1.75	0.52
1:v:322:VAL:CG1	1:v:673:GLN:HE21	2.22	0.52
1:w:324:GLU:HB2	1:w:337:ASN:OD1	2.10	0.52
1:w:529:GLU:O	1:w:567:LYS:NZ	2.43	0.52
1:x:546:GLN:NE2	1:x:721:TYR:O	2.41	0.52
1:z:529:GLU:O	1:z:567:LYS:NZ	2.43	0.52
1:E:529:GLU:O	1:E:567:LYS:NZ	2.43	0.51
1:I:262:ASN:ND2	1:I:273:ALA:HA	2.24	0.51
1:K:424:SER:HB2	1:K:426:TYR:CE2	2.44	0.51
1:L:529:GLU:O	1:L:567:LYS:NZ	2.43	0.51
1:N:324:GLU:HB2	1:N:337:ASN:OD1	2.10	0.51
1:O:346:THR:HG22	1:O:647:ILE:HG13	1.91	0.51
1:P:415:TYR:OH	1:P:642:HIS:O	2.26	0.51
1:R:324:GLU:HB2	1:R:337:ASN:OD1	2.10	0.51
1:S:346:THR:HG22	1:S:647:ILE:HG13	1.91	0.51
1:T:346:THR:HG22	1:T:647:ILE:HG13	1.92	0.51
1:X:322:VAL:CG1	1:X:673:GLN:HE21	2.22	0.51
1:Y:324:GLU:HB2	1:Y:337:ASN:OD1	2.10	0.51
1:1:529:GLU:O	1:1:567:LYS:NZ	2.43	0.51
1:5:324:GLU:HB2	1:5:337:ASN:OD1	2.10	0.51
1:a:252:TYR:OH	1:a:374:ILE:O	2.21	0.51
1:b:324:GLU:HB2	1:b:337:ASN:OD1	2.10	0.51
1:f:324:GLU:HB2	1:f:337:ASN:OD1	2.10	0.51
1:j:252:TYR:OH	1:j:374:ILE:O	2.21	0.51
1:l:657:ASP:OD2	1:r:332:LYS:NZ	2.29	0.51
1:m:324:GLU:HB2	1:m:337:ASN:OD1	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:346:THR:HG22	1:o:647:ILE:HG13	1.91	0.51
1:s:262:ASN:ND2	1:s:273:ALA:HA	2.24	0.51
1:t:324:GLU:HB2	1:t:337:ASN:OD1	2.10	0.51
1:z:346:THR:HG22	1:z:647:ILE:HG13	1.91	0.51
1:B:497:ASN:HD22	1:L:590:GLN:HA	1.75	0.51
1:C:322:VAL:CG1	1:C:673:GLN:HE21	2.22	0.51
1:G:322:VAL:CG1	1:G:673:GLN:HE21	2.22	0.51
1:G:324:GLU:HB2	1:G:337:ASN:OD1	2.10	0.51
1:M:324:GLU:HB2	1:M:337:ASN:OD1	2.10	0.51
1:N:490:SER:HA	1:N:534:PHE:HA	1.92	0.51
1:P:324:GLU:HB2	1:P:337:ASN:OD1	2.11	0.51
1:S:322:VAL:CG1	1:S:673:GLN:HE21	2.22	0.51
1:T:529:GLU:O	1:T:567:LYS:NZ	2.43	0.51
1:Y:322:VAL:CG1	1:Y:673:GLN:HE21	2.22	0.51
1:Z:252:TYR:OH	1:Z:374:ILE:O	2.21	0.51
1:1:346:THR:HG22	1:1:647:ILE:HG13	1.92	0.51
1:3:546:GLN:NE2	1:3:721:TYR:O	2.41	0.51
1:5:490:SER:HA	1:5:534:PHE:HA	1.92	0.51
1:6:546:GLN:NE2	1:6:721:TYR:O	2.41	0.51
1:c:324:GLU:HB2	1:c:337:ASN:OD1	2.10	0.51
1:g:322:VAL:CG1	1:g:673:GLN:HE21	2.22	0.51
1:h:324:GLU:HB2	1:h:337:ASN:OD1	2.10	0.51
1:j:324:GLU:HB2	1:j:337:ASN:OD1	2.10	0.51
1:n:299:GLN:O	1:n:303:ASN:ND2	2.35	0.51
1:o:529:GLU:O	1:o:567:LYS:NZ	2.43	0.51
1:r:322:VAL:CG1	1:r:673:GLN:HE21	2.22	0.51
1:r:324:GLU:HB2	1:r:337:ASN:OD1	2.10	0.51
1:E:490:SER:HA	1:E:534:PHE:HA	1.92	0.51
1:J:546:GLN:NE2	1:J:721:TYR:O	2.41	0.51
1:L:299:GLN:O	1:L:303:ASN:ND2	2.35	0.51
1:L:346:THR:HG22	1:L:647:ILE:HG13	1.91	0.51
1:R:346:THR:HG22	1:R:647:ILE:HG13	1.92	0.51
1:S:529:GLU:O	1:S:567:LYS:NZ	2.43	0.51
1:T:322:VAL:CG1	1:T:673:GLN:HE21	2.22	0.51
1:U:546:GLN:NE2	1:U:721:TYR:O	2.41	0.51
1:Z:324:GLU:HB2	1:Z:337:ASN:OD1	2.10	0.51
1:4:346:THR:HG22	1:4:647:ILE:HG13	1.91	0.51
1:g:590:GLN:HA	1:h:497:ASN:ND2	2.26	0.51
1:n:546:GLN:NE2	1:n:721:TYR:O	2.41	0.51
1:u:322:VAL:CG1	1:u:673:GLN:HE21	2.22	0.51
1:I:322:VAL:CG1	1:I:673:GLN:HE21	2.22	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:299:GLN:O	1:J:303:ASN:ND2	2.35	0.51
1:J:529:GLU:O	1:J:567:LYS:NZ	2.43	0.51
1:K:415:TYR:OH	1:K:642:HIS:O	2.27	0.51
1:O:355:VAL:CG1	1:h:437:ASN:HB2	2.41	0.51
1:O:424:SER:HB2	1:O:426:TYR:CE2	2.44	0.51
1:U:324:GLU:HB2	1:U:337:ASN:OD1	2.10	0.51
1:U:490:SER:HA	1:U:534:PHE:HA	1.92	0.51
1:V:324:GLU:HB2	1:V:337:ASN:OD1	2.10	0.51
1:V:497:ASN:HD22	1:X:590:GLN:HA	1.73	0.51
1:4:424:SER:HB2	1:4:426:TYR:CE2	2.44	0.51
1:6:324:GLU:HB2	1:6:337:ASN:OD1	2.10	0.51
1:6:490:SER:HA	1:6:534:PHE:HA	1.92	0.51
1:a:324:GLU:HB2	1:a:337:ASN:OD1	2.10	0.51
1:a:346:THR:HG22	1:a:647:ILE:HG13	1.91	0.51
1:e:490:SER:HA	1:e:534:PHE:HA	1.92	0.51
1:f:346:THR:HG22	1:f:647:ILE:HG13	1.91	0.51
1:n:324:GLU:HB2	1:n:337:ASN:OD1	2.10	0.51
1:p:346:THR:HG22	1:p:647:ILE:HG13	1.91	0.51
1:r:252:TYR:OH	1:r:374:ILE:O	2.21	0.51
1:r:415:TYR:OH	1:r:642:HIS:O	2.26	0.51
1:s:322:VAL:CG1	1:s:673:GLN:HE21	2.22	0.51
1:v:346:THR:HG22	1:v:647:ILE:HG13	1.92	0.51
1:B:346:THR:HG22	1:B:647:ILE:HG13	1.91	0.51
1:D:324:GLU:HB2	1:D:337:ASN:OD1	2.10	0.51
1:D:346:THR:HG22	1:D:647:ILE:HG13	1.92	0.51
1:G:252:TYR:OH	1:G:374:ILE:O	2.21	0.51
1:H:322:VAL:CG1	1:H:673:GLN:HE21	2.22	0.51
1:I:324:GLU:HB2	1:I:337:ASN:OD1	2.10	0.51
1:J:324:GLU:HB2	1:J:337:ASN:OD1	2.10	0.51
1:J:490:SER:HA	1:J:534:PHE:HA	1.92	0.51
1:M:424:SER:HB2	1:M:426:TYR:CE2	2.44	0.51
1:O:257:TYR:O	1:6:719:GLY:HA2	2.11	0.51
1:O:324:GLU:HB2	1:O:337:ASN:OD1	2.10	0.51
1:Q:529:GLU:O	1:Q:567:LYS:NZ	2.43	0.51
1:T:565:GLU:HG3	1:6:391:ARG:NH2	2.26	0.51
1:W:529:GLU:O	1:W:567:LYS:NZ	2.43	0.51
1:1:262:ASN:ND2	1:1:273:ALA:HA	2.24	0.51
1:4:324:GLU:HB2	1:4:337:ASN:OD1	2.10	0.51
1:5:346:THR:HG22	1:5:647:ILE:HG13	1.91	0.51
1:l:529:GLU:O	1:l:567:LYS:NZ	2.43	0.51
1:n:490:SER:HA	1:n:534:PHE:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:529:GLU:O	1:n:567:LYS:NZ	2.43	0.51
1:t:262:ASN:ND2	1:t:273:ALA:HA	2.24	0.51
1:u:415:TYR:OH	1:u:642:HIS:O	2.27	0.51
1:w:490:SER:HA	1:w:534:PHE:HA	1.92	0.51
1:A:529:GLU:O	1:A:567:LYS:NZ	2.43	0.51
1:D:529:GLU:O	1:D:567:LYS:NZ	2.43	0.51
1:G:415:TYR:OH	1:G:642:HIS:O	2.27	0.51
1:N:346:THR:HG22	1:N:647:ILE:HG13	1.91	0.51
1:O:529:GLU:O	1:O:567:LYS:NZ	2.43	0.51
1:S:262:ASN:ND2	1:S:273:ALA:HA	2.24	0.51
1:S:415:TYR:OH	1:S:642:HIS:O	2.27	0.51
1:T:262:ASN:ND2	1:T:273:ALA:HA	2.24	0.51
1:X:659:PRO:HG2	1:5:373:MET:HE1	1.93	0.51
1:Z:346:THR:HG22	1:Z:647:ILE:HG13	1.91	0.51
1:3:529:GLU:O	1:3:567:LYS:NZ	2.43	0.51
1:4:490:SER:HA	1:4:534:PHE:HA	1.92	0.51
1:4:529:GLU:O	1:4:567:LYS:NZ	2.43	0.51
1:i:490:SER:HA	1:i:534:PHE:HA	1.92	0.51
1:k:322:VAL:CG1	1:k:673:GLN:HE21	2.22	0.51
1:m:346:THR:HG22	1:m:647:ILE:HG13	1.91	0.51
1:q:324:GLU:HB2	1:q:337:ASN:OD1	2.10	0.51
1:s:324:GLU:HB2	1:s:337:ASN:OD1	2.10	0.51
1:t:424:SER:HB2	1:t:426:TYR:CE2	2.44	0.51
1:t:529:GLU:O	1:t:567:LYS:NZ	2.43	0.51
1:y:415:TYR:OH	1:y:642:HIS:O	2.27	0.51
1:C:415:TYR:OH	1:C:642:HIS:O	2.26	0.51
1:C:659:PRO:HG2	1:D:373:MET:HE1	1.93	0.51
1:F:324:GLU:HB2	1:F:337:ASN:OD1	2.10	0.51
1:M:262:ASN:ND2	1:M:273:ALA:HA	2.24	0.51
1:M:322:VAL:CG1	1:M:673:GLN:HE21	2.22	0.51
1:M:529:GLU:O	1:M:567:LYS:NZ	2.43	0.51
1:R:262:ASN:ND2	1:R:273:ALA:HA	2.24	0.51
1:S:260:ILE:HD13	1:S:278:SER:HB3	1.93	0.51
1:T:415:TYR:OH	1:T:642:HIS:O	2.27	0.51
1:T:659:PRO:HG2	1:c:373:MET:HE1	1.91	0.51
1:W:324:GLU:HB2	1:W:337:ASN:OD1	2.10	0.51
1:X:324:GLU:HB2	1:X:337:ASN:OD1	2.10	0.51
1:Y:346:THR:HG22	1:Y:647:ILE:HG13	1.92	0.51
1:2:346:THR:HG22	1:2:647:ILE:HG13	1.92	0.51
1:3:262:ASN:ND2	1:3:273:ALA:HA	2.24	0.51
1:a:373:MET:HE1	1:u:659:PRO:HG2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:529:GLU:O	1:b:567:LYS:NZ	2.43	0.51
1:c:529:GLU:O	1:c:567:LYS:NZ	2.43	0.51
1:i:346:THR:HG22	1:i:647:ILE:HG13	1.91	0.51
1:j:346:THR:HG22	1:j:647:ILE:HG13	1.91	0.51
1:l:324:GLU:HB2	1:l:337:ASN:OD1	2.10	0.51
1:o:299:GLN:O	1:o:303:ASN:ND2	2.35	0.51
1:q:529:GLU:O	1:q:567:LYS:NZ	2.43	0.51
1:w:346:THR:HG22	1:w:647:ILE:HG13	1.91	0.51
1:z:262:ASN:ND2	1:z:273:ALA:HA	2.24	0.51
1:A:324:GLU:HB2	1:A:337:ASN:OD1	2.10	0.51
1:B:529:GLU:O	1:B:567:LYS:NZ	2.43	0.51
1:F:490:SER:HA	1:F:534:PHE:HA	1.92	0.51
1:N:260:ILE:HD13	1:N:278:SER:HB3	1.93	0.51
1:O:490:SER:HA	1:O:534:PHE:HA	1.92	0.51
1:O:497:ASN:HD22	1:h:590:GLN:HA	1.76	0.51
1:P:529:GLU:O	1:P:567:LYS:NZ	2.43	0.51
1:T:260:ILE:HD13	1:T:278:SER:HB3	1.93	0.51
1:T:429:SER:C	1:6:382:LEU:HD13	2.36	0.51
1:T:441:ASP:CG	1:6:550:ARG:HH22	2.19	0.51
1:V:262:ASN:ND2	1:V:273:ALA:HA	2.24	0.51
1:X:346:THR:HG22	1:X:647:ILE:HG13	1.91	0.51
1:Z:260:ILE:HD13	1:Z:278:SER:HB3	1.93	0.51
1:2:324:GLU:HB2	1:2:337:ASN:OD1	2.10	0.51
1:g:324:GLU:HB2	1:g:337:ASN:OD1	2.10	0.51
1:j:260:ILE:HD13	1:j:278:SER:HB3	1.93	0.51
1:p:529:GLU:O	1:p:567:LYS:NZ	2.43	0.51
1:z:415:TYR:OH	1:z:642:HIS:O	2.26	0.51
1:z:490:SER:HA	1:z:534:PHE:HA	1.92	0.51
1:F:529:GLU:O	1:F:567:LYS:NZ	2.43	0.51
1:H:485:ARG:NH2	1:H:576:SER:OG	2.44	0.51
1:J:260:ILE:HD13	1:J:278:SER:HB3	1.93	0.51
1:K:373:MET:HE1	1:L:659:PRO:HG2	1.93	0.51
1:K:659:PRO:HG2	1:7:373:MET:HE1	1.93	0.51
1:L:322:VAL:CG1	1:L:673:GLN:HE21	2.22	0.51
1:L:546:GLN:NE2	1:L:721:TYR:O	2.41	0.51
1:S:252:TYR:OH	1:S:374:ILE:O	2.21	0.51
1:S:490:SER:HA	1:S:534:PHE:HA	1.92	0.51
1:T:490:SER:HA	1:T:534:PHE:HA	1.92	0.51
1:T:662:PHE:HZ	1:c:362:GLY:HA2	1.75	0.51
1:X:485:ARG:NH2	1:X:576:SER:OG	2.44	0.51
1:Y:485:ARG:NH2	1:Y:576:SER:OG	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:485:ARG:NH2	1:Z:576:SER:OG	2.44	0.51
1:4:260:ILE:HD13	1:4:278:SER:HB3	1.93	0.51
1:d:324:GLU:HB2	1:d:337:ASN:OD1	2.10	0.51
1:e:324:GLU:HB2	1:e:337:ASN:OD1	2.10	0.51
1:g:373:MET:HE1	1:m:659:PRO:HG2	1.93	0.51
1:j:415:TYR:OH	1:j:642:HIS:O	2.27	0.51
1:k:485:ARG:NH2	1:k:576:SER:OG	2.44	0.51
1:l:490:SER:HA	1:l:534:PHE:HA	1.92	0.51
1:n:260:ILE:HD13	1:n:278:SER:HB3	1.93	0.51
1:o:546:GLN:NE2	1:o:721:TYR:O	2.41	0.51
1:o:659:PRO:HG2	1:y:373:MET:HE1	1.93	0.51
1:p:490:SER:HA	1:p:534:PHE:HA	1.92	0.51
1:q:346:THR:HG22	1:q:647:ILE:HG13	1.91	0.51
1:t:322:VAL:CG1	1:t:673:GLN:HE21	2.22	0.51
1:v:324:GLU:HB2	1:v:337:ASN:OD1	2.10	0.51
1:x:262:ASN:ND2	1:x:273:ALA:HA	2.24	0.51
1:y:659:PRO:HG2	1:8:373:MET:HE1	1.93	0.51
1:7:346:THR:HG22	1:7:647:ILE:HG13	1.91	0.51
1:7:490:SER:HA	1:7:534:PHE:HA	1.92	0.51
1:8:346:THR:HG22	1:8:647:ILE:HG13	1.91	0.51
1:8:490:SER:HA	1:8:534:PHE:HA	1.92	0.51
1:A:346:THR:HG22	1:A:647:ILE:HG13	1.91	0.51
1:B:490:SER:HA	1:B:534:PHE:HA	1.92	0.51
1:D:260:ILE:HD13	1:D:278:SER:HB3	1.93	0.51
1:F:485:ARG:NH2	1:F:576:SER:OG	2.44	0.51
1:F:659:PRO:HG2	1:R:373:MET:HE1	1.93	0.51
1:K:485:ARG:NH2	1:K:576:SER:OG	2.44	0.51
1:O:260:ILE:HD13	1:O:278:SER:HB3	1.93	0.51
1:S:485:ARG:NH2	1:S:576:SER:OG	2.44	0.51
1:T:485:ARG:NH2	1:T:576:SER:OG	2.44	0.51
1:V:485:ARG:NH2	1:V:576:SER:OG	2.44	0.51
1:V:659:PRO:HG2	1:W:373:MET:HE1	1.93	0.51
1:X:373:MET:HE1	1:Y:659:PRO:HG2	1.93	0.51
1:Y:252:TYR:OH	1:Y:374:ILE:O	2.21	0.51
1:1:415:TYR:OH	1:1:642:HIS:O	2.26	0.51
1:5:260:ILE:HD13	1:5:278:SER:HB3	1.93	0.51
1:a:260:ILE:HD13	1:a:278:SER:HB3	1.93	0.51
1:d:485:ARG:NH2	1:d:576:SER:OG	2.44	0.51
1:d:490:SER:HA	1:d:534:PHE:HA	1.92	0.51
1:f:262:ASN:ND2	1:f:273:ALA:HA	2.24	0.51
1:g:346:THR:HG22	1:g:647:ILE:HG13	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:485:ARG:NH2	1:g:576:SER:OG	2.44	0.51
1:h:262:ASN:ND2	1:h:273:ALA:HA	2.24	0.51
1:j:529:GLU:O	1:j:567:LYS:NZ	2.43	0.51
1:m:485:ARG:NH2	1:m:576:SER:OG	2.44	0.51
1:y:322:VAL:CG1	1:y:673:GLN:HE21	2.23	0.51
1:y:485:ARG:NH2	1:y:576:SER:OG	2.44	0.51
1:A:373:MET:HE1	1:E:659:PRO:HG2	1.93	0.50
1:B:262:ASN:ND2	1:B:273:ALA:HA	2.24	0.50
1:C:324:GLU:HB2	1:C:337:ASN:OD1	2.10	0.50
1:D:490:SER:HA	1:D:534:PHE:HA	1.92	0.50
1:E:324:GLU:HB2	1:E:337:ASN:OD1	2.10	0.50
1:G:529:GLU:O	1:G:567:LYS:NZ	2.43	0.50
1:H:490:SER:HA	1:H:534:PHE:HA	1.92	0.50
1:M:485:ARG:NH2	1:M:576:SER:OG	2.44	0.50
1:O:485:ARG:NH2	1:O:576:SER:OG	2.44	0.50
1:Q:262:ASN:ND2	1:Q:273:ALA:HA	2.24	0.50
1:R:529:GLU:O	1:R:567:LYS:NZ	2.43	0.50
1:T:252:TYR:OH	1:T:374:ILE:O	2.21	0.50
1:T:373:MET:HE1	1:U:659:PRO:HG2	1.93	0.50
1:T:601:ILE:O	1:6:600:GLY:HA2	2.11	0.50
1:U:322:VAL:CG1	1:U:673:GLN:HE21	2.22	0.50
1:W:490:SER:HA	1:W:534:PHE:HA	1.92	0.50
1:1:490:SER:HA	1:1:534:PHE:HA	1.92	0.50
1:2:260:ILE:HD13	1:2:278:SER:HB3	1.93	0.50
1:a:490:SER:HA	1:a:534:PHE:HA	1.92	0.50
1:d:322:VAL:CG1	1:d:673:GLN:HE21	2.22	0.50
1:h:485:ARG:NH2	1:h:576:SER:OG	2.44	0.50
1:h:529:GLU:O	1:h:567:LYS:NZ	2.43	0.50
1:j:485:ARG:NH2	1:j:576:SER:OG	2.44	0.50
1:k:324:GLU:HB2	1:k:337:ASN:OD1	2.10	0.50
1:o:322:VAL:CG1	1:o:673:GLN:HE21	2.22	0.50
1:o:490:SER:HA	1:o:534:PHE:HA	1.92	0.50
1:p:299:GLN:O	1:p:303:ASN:ND2	2.35	0.50
1:p:324:GLU:HB2	1:p:337:ASN:OD1	2.10	0.50
1:s:252:TYR:OH	1:s:374:ILE:O	2.22	0.50
1:t:485:ARG:NH2	1:t:576:SER:OG	2.44	0.50
1:v:260:ILE:HD13	1:v:278:SER:HB3	1.93	0.50
1:8:299:GLN:O	1:8:303:ASN:ND2	2.35	0.50
1:B:324:GLU:HB2	1:B:337:ASN:OD1	2.10	0.50
1:F:322:VAL:CG1	1:F:673:GLN:HE21	2.22	0.50
1:H:324:GLU:HB2	1:H:337:ASN:OD1	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:260:ILE:HD13	1:I:278:SER:HB3	1.93	0.50
1:I:490:SER:HA	1:I:534:PHE:HA	1.92	0.50
1:K:324:GLU:HB2	1:K:337:ASN:OD1	2.10	0.50
1:K:490:SER:HA	1:K:534:PHE:HA	1.92	0.50
1:L:324:GLU:HB2	1:L:337:ASN:OD1	2.10	0.50
1:L:490:SER:HA	1:L:534:PHE:HA	1.92	0.50
1:P:260:ILE:HD13	1:P:278:SER:HB3	1.93	0.50
1:S:324:GLU:HB2	1:S:337:ASN:OD1	2.10	0.50
1:S:355:VAL:H	1:S:646:GLN:HE22	1.60	0.50
1:V:529:GLU:O	1:V:567:LYS:NZ	2.43	0.50
1:Z:415:TYR:OH	1:Z:642:HIS:O	2.27	0.50
1:Z:490:SER:HA	1:Z:534:PHE:HA	1.92	0.50
1:2:485:ARG:NH2	1:2:576:SER:OG	2.44	0.50
1:3:260:ILE:HD13	1:3:278:SER:HB3	1.93	0.50
1:3:324:GLU:HB2	1:3:337:ASN:OD1	2.10	0.50
1:4:485:ARG:NH2	1:4:576:SER:OG	2.44	0.50
1:6:322:VAL:CG1	1:6:673:GLN:HE21	2.22	0.50
1:6:713:PHE:O	1:h:695:TRP:CD1	2.64	0.50
1:b:260:ILE:HD13	1:b:278:SER:HB3	1.93	0.50
1:f:485:ARG:NH2	1:f:576:SER:OG	2.44	0.50
1:f:529:GLU:O	1:f:567:LYS:NZ	2.43	0.50
1:i:373:MET:HE1	1:7:659:PRO:HG2	1.93	0.50
1:j:490:SER:HA	1:j:534:PHE:HA	1.92	0.50
1:k:490:SER:HA	1:k:534:PHE:HA	1.92	0.50
1:s:260:ILE:HD13	1:s:278:SER:HB3	1.93	0.50
1:u:324:GLU:HB2	1:u:337:ASN:OD1	2.10	0.50
1:v:485:ARG:NH2	1:v:576:SER:OG	2.44	0.50
1:v:529:GLU:O	1:v:567:LYS:NZ	2.43	0.50
1:w:373:MET:HE1	1:8:659:PRO:HG2	1.93	0.50
1:y:324:GLU:HB2	1:y:337:ASN:OD1	2.10	0.50
1:y:490:SER:HA	1:y:534:PHE:HA	1.92	0.50
1:z:324:GLU:HB2	1:z:337:ASN:OD1	2.10	0.50
1:8:260:ILE:HD13	1:8:278:SER:HB3	1.93	0.50
1:B:260:ILE:HD13	1:B:278:SER:HB3	1.93	0.50
1:B:415:TYR:OH	1:B:642:HIS:O	2.26	0.50
1:H:260:ILE:HD13	1:H:278:SER:HB3	1.93	0.50
1:H:529:GLU:O	1:H:567:LYS:NZ	2.43	0.50
1:N:373:MET:HE1	1:g:659:PRO:HG2	1.94	0.50
1:N:529:GLU:O	1:N:567:LYS:NZ	2.43	0.50
1:O:437:ASN:HB2	1:g:355:VAL:CG1	2.40	0.50
1:P:252:TYR:OH	1:P:374:ILE:O	2.21	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:485:ARG:NH2	1:Q:576:SER:OG	2.44	0.50
1:R:485:ARG:NH2	1:R:576:SER:OG	2.44	0.50
1:T:355:VAL:H	1:T:646:GLN:HE22	1.60	0.50
1:V:490:SER:HA	1:V:534:PHE:HA	1.92	0.50
1:Z:529:GLU:O	1:Z:567:LYS:NZ	2.43	0.50
1:2:529:GLU:O	1:2:567:LYS:NZ	2.43	0.50
1:5:529:GLU:O	1:5:567:LYS:NZ	2.43	0.50
1:b:485:ARG:NH2	1:b:576:SER:OG	2.44	0.50
1:c:262:ASN:ND2	1:c:273:ALA:HA	2.24	0.50
1:e:659:PRO:HG2	1:q:373:MET:HE1	1.93	0.50
1:h:490:SER:HA	1:h:534:PHE:HA	1.92	0.50
1:k:529:GLU:O	1:k:567:LYS:NZ	2.43	0.50
1:o:324:GLU:HB2	1:o:337:ASN:OD1	2.10	0.50
1:p:252:TYR:OH	1:p:374:ILE:O	2.21	0.50
1:p:260:ILE:HD13	1:p:278:SER:HB3	1.93	0.50
1:r:529:GLU:O	1:r:567:LYS:NZ	2.43	0.50
1:t:252:TYR:OH	1:t:374:ILE:O	2.21	0.50
1:7:299:GLN:O	1:7:303:ASN:ND2	2.35	0.50
1:8:529:GLU:O	1:8:567:LYS:NZ	2.43	0.50
1:B:252:TYR:OH	1:B:374:ILE:O	2.21	0.50
1:G:373:MET:HE1	1:W:659:PRO:HG2	1.93	0.50
1:G:485:ARG:NH2	1:G:576:SER:OG	2.44	0.50
1:G:490:SER:HA	1:G:534:PHE:HA	1.92	0.50
1:L:485:ARG:NH2	1:L:576:SER:OG	2.44	0.50
1:M:252:TYR:OH	1:M:374:ILE:O	2.21	0.50
1:P:373:MET:HE1	1:Q:659:PRO:HG2	1.93	0.50
1:P:485:ARG:NH2	1:P:576:SER:OG	2.44	0.50
1:T:324:GLU:HB2	1:T:337:ASN:OD1	2.10	0.50
1:V:415:TYR:OH	1:V:642:HIS:O	2.27	0.50
1:W:485:ARG:NH2	1:W:576:SER:OG	2.44	0.50
1:Z:659:PRO:HG2	1:1:373:MET:HE1	1.93	0.50
1:b:373:MET:HE1	1:c:659:PRO:HG2	1.93	0.50
1:c:485:ARG:NH2	1:c:576:SER:OG	2.44	0.50
1:j:322:VAL:CG1	1:j:673:GLN:HE21	2.22	0.50
1:p:262:ASN:ND2	1:p:273:ALA:HA	2.24	0.50
1:p:415:TYR:OH	1:p:642:HIS:O	2.27	0.50
1:p:659:PRO:HG2	1:u:373:MET:HE1	1.93	0.50
1:u:260:ILE:HD13	1:u:278:SER:HB3	1.93	0.50
1:x:260:ILE:HD13	1:x:278:SER:HB3	1.93	0.50
1:x:324:GLU:HB2	1:x:337:ASN:OD1	2.10	0.50
1:x:485:ARG:NH2	1:x:576:SER:OG	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:260:ILE:HD13	1:7:278:SER:HB3	1.93	0.50
1:7:324:GLU:HB2	1:7:337:ASN:OD1	2.10	0.50
1:7:529:GLU:O	1:7:567:LYS:NZ	2.43	0.50
1:B:299:GLN:O	1:B:303:ASN:ND2	2.35	0.50
1:B:659:PRO:HG2	1:C:373:MET:HE1	1.93	0.50
1:C:260:ILE:HD13	1:C:278:SER:HB3	1.93	0.50
1:N:485:ARG:NH2	1:N:576:SER:OG	2.44	0.50
1:P:346:THR:HG22	1:P:647:ILE:HG13	1.91	0.50
1:U:355:VAL:H	1:U:646:GLN:HE22	1.60	0.50
1:V:657:ASP:OD2	1:W:332:LYS:NZ	2.29	0.50
1:1:324:GLU:HB2	1:1:337:ASN:OD1	2.10	0.50
1:3:355:VAL:H	1:3:646:GLN:HE22	1.60	0.50
1:3:485:ARG:NH2	1:3:576:SER:OG	2.44	0.50
1:3:659:PRO:HG2	1:m:373:MET:HE1	1.93	0.50
1:5:355:VAL:H	1:5:646:GLN:HE22	1.60	0.50
1:6:355:VAL:H	1:6:646:GLN:HE22	1.60	0.50
1:i:260:ILE:HD13	1:i:278:SER:HB3	1.93	0.50
1:k:260:ILE:HD13	1:k:278:SER:HB3	1.93	0.50
1:l:659:PRO:HG2	1:r:373:MET:HE1	1.93	0.50
1:n:659:PRO:HG2	1:s:373:MET:HE1	1.93	0.50
1:o:485:ARG:NH2	1:o:576:SER:OG	2.45	0.50
1:p:373:MET:HE1	1:q:659:PRO:HG2	1.93	0.50
1:r:485:ARG:NH2	1:r:576:SER:OG	2.44	0.50
1:r:490:SER:HA	1:r:534:PHE:HA	1.92	0.50
1:s:490:SER:HA	1:s:534:PHE:HA	1.92	0.50
1:w:415:TYR:OH	1:w:642:HIS:O	2.26	0.50
1:x:355:VAL:H	1:x:646:GLN:HE22	1.60	0.50
1:8:324:GLU:HB2	1:8:337:ASN:OD1	2.10	0.50
1:B:355:VAL:H	1:B:646:GLN:HE22	1.60	0.50
1:C:346:THR:HG22	1:C:647:ILE:HG13	1.92	0.50
1:I:252:TYR:OH	1:I:374:ILE:O	2.21	0.50
1:M:659:PRO:HG2	1:3:373:MET:HE1	1.93	0.50
1:O:415:TYR:OH	1:O:642:HIS:O	2.27	0.50
1:R:252:TYR:OH	1:R:374:ILE:O	2.21	0.50
1:Z:322:VAL:CG1	1:Z:673:GLN:HE21	2.22	0.50
1:5:485:ARG:NH2	1:5:576:SER:OG	2.44	0.50
1:a:485:ARG:NH2	1:a:576:SER:OG	2.44	0.50
1:h:415:TYR:OH	1:h:642:HIS:O	2.27	0.50
1:l:485:ARG:NH2	1:l:576:SER:OG	2.44	0.50
1:s:485:ARG:NH2	1:s:576:SER:OG	2.44	0.50
1:u:346:THR:HG22	1:u:647:ILE:HG13	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:260:ILE:HD13	1:w:278:SER:HB3	1.93	0.50
1:D:485:ARG:NH2	1:D:576:SER:OG	2.44	0.50
1:I:373:MET:HE1	1:J:659:PRO:HG2	1.93	0.50
1:I:485:ARG:NH2	1:I:576:SER:OG	2.44	0.50
1:J:485:ARG:NH2	1:J:576:SER:OG	2.44	0.50
1:N:355:VAL:H	1:N:646:GLN:HE22	1.60	0.50
1:R:355:VAL:H	1:R:646:GLN:HE22	1.60	0.50
1:S:323:LYS:NZ	1:6:654:VAL:HG11	2.26	0.50
1:T:476:ARG:HD2	1:6:509:TRP:CZ2	2.42	0.50
1:U:260:ILE:HD13	1:U:278:SER:HB3	1.93	0.50
1:U:262:ASN:ND2	1:U:273:ALA:HA	2.24	0.50
1:Y:373:MET:HE1	1:x:659:PRO:HG2	1.93	0.50
1:4:415:TYR:OH	1:4:642:HIS:O	2.26	0.50
1:b:252:TYR:OH	1:b:374:ILE:O	2.21	0.50
1:b:346:THR:HG22	1:b:647:ILE:HG13	1.92	0.50
1:e:260:ILE:HD13	1:e:278:SER:HB3	1.93	0.50
1:e:299:GLN:O	1:e:303:ASN:ND2	2.35	0.50
1:f:355:VAL:H	1:f:646:GLN:HE22	1.60	0.50
1:j:659:PRO:HG2	1:z:373:MET:HE1	1.93	0.50
1:n:355:VAL:H	1:n:646:GLN:HE22	1.60	0.50
1:n:485:ARG:NH2	1:n:576:SER:OG	2.44	0.50
1:p:355:VAL:H	1:p:646:GLN:HE22	1.60	0.50
1:A:659:PRO:HG2	1:B:373:MET:HE1	1.94	0.50
1:C:355:VAL:H	1:C:646:GLN:HE22	1.60	0.50
1:F:260:ILE:HD13	1:F:278:SER:HB3	1.93	0.50
1:H:659:PRO:HG2	1:Z:373:MET:HE1	1.93	0.50
1:J:355:VAL:H	1:J:646:GLN:HE22	1.60	0.50
1:K:362:GLY:HA2	1:L:662:PHE:HZ	1.77	0.50
1:M:373:MET:HE1	1:N:659:PRO:HG2	1.93	0.50
1:T:590:GLN:HA	1:6:497:ASN:HD22	1.74	0.50
1:U:529:GLU:O	1:U:567:LYS:NZ	2.43	0.50
1:X:362:GLY:HA2	1:Y:662:PHE:HZ	1.77	0.50
1:Y:529:GLU:O	1:Y:567:LYS:NZ	2.43	0.50
1:1:485:ARG:NH2	1:1:576:SER:OG	2.44	0.50
1:6:262:ASN:ND2	1:6:273:ALA:HA	2.24	0.50
1:c:252:TYR:OH	1:c:374:ILE:O	2.21	0.50
1:d:260:ILE:HD13	1:d:278:SER:HB3	1.93	0.50
1:e:485:ARG:NH2	1:e:576:SER:OG	2.44	0.50
1:g:362:GLY:HA2	1:m:662:PHE:HZ	1.77	0.50
1:g:529:GLU:O	1:g:567:LYS:NZ	2.43	0.50
1:u:355:VAL:H	1:u:646:GLN:HE22	1.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:485:ARG:NH2	1:z:576:SER:OG	2.44	0.50
1:7:485:ARG:NH2	1:7:576:SER:OG	2.44	0.50
1:8:485:ARG:NH2	1:8:576:SER:OG	2.44	0.50
1:D:262:ASN:ND2	1:D:273:ALA:HA	2.24	0.50
1:D:355:VAL:H	1:D:646:GLN:HE22	1.60	0.50
1:E:260:ILE:HD13	1:E:278:SER:HB3	1.93	0.50
1:E:485:ARG:NH2	1:E:576:SER:OG	2.44	0.50
1:F:355:VAL:H	1:F:646:GLN:HE22	1.60	0.50
1:F:662:PHE:HZ	1:R:362:GLY:HA2	1.77	0.50
1:K:657:ASP:OD2	1:7:332:LYS:NZ	2.29	0.50
1:P:362:GLY:HA2	1:Q:662:PHE:HZ	1.77	0.50
1:R:490:SER:HA	1:R:534:PHE:HA	1.92	0.50
1:R:590:GLN:HA	1:S:497:ASN:HD22	1.76	0.50
1:5:659:PRO:HG2	1:t:373:MET:HE1	1.93	0.50
1:6:260:ILE:HD13	1:6:278:SER:HB3	1.93	0.50
1:a:355:VAL:H	1:a:646:GLN:HE22	1.60	0.50
1:a:659:PRO:HG2	1:e:373:MET:HE1	1.93	0.50
1:b:362:GLY:HA2	1:c:662:PHE:HZ	1.77	0.50
1:f:490:SER:HA	1:f:534:PHE:HA	1.92	0.50
1:g:260:ILE:HD13	1:g:278:SER:HB3	1.93	0.50
1:i:325:VAL:O	1:i:672:THR:OG1	2.30	0.50
1:i:485:ARG:NH2	1:i:576:SER:OG	2.44	0.50
1:j:373:MET:HE1	1:k:659:PRO:HG2	1.93	0.50
1:k:373:MET:HE1	1:s:659:PRO:HG2	1.93	0.50
1:m:529:GLU:O	1:m:567:LYS:NZ	2.43	0.50
1:o:662:PHE:HZ	1:y:362:GLY:HA2	1.77	0.50
1:t:659:PRO:HG2	1:x:373:MET:HE1	1.93	0.50
1:D:659:PRO:HG2	1:E:373:MET:HE1	1.93	0.49
1:J:362:GLY:HA2	1:1:662:PHE:HZ	1.77	0.49
1:K:529:GLU:O	1:K:567:LYS:NZ	2.43	0.49
1:L:355:VAL:H	1:L:646:GLN:HE22	1.60	0.49
1:P:325:VAL:O	1:P:672:THR:OG1	2.30	0.49
1:U:373:MET:HE1	1:4:659:PRO:HG2	1.93	0.49
1:X:662:PHE:HZ	1:5:362:GLY:HA2	1.77	0.49
1:Z:325:VAL:O	1:Z:672:THR:OG1	2.30	0.49
1:1:325:VAL:O	1:1:672:THR:OG1	2.30	0.49
1:3:325:VAL:O	1:3:672:THR:OG1	2.30	0.49
1:6:529:GLU:O	1:6:567:LYS:NZ	2.43	0.49
1:a:262:ASN:ND2	1:a:273:ALA:HA	2.24	0.49
1:d:355:VAL:H	1:d:646:GLN:HE22	1.60	0.49
1:f:325:VAL:O	1:f:672:THR:OG1	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:565:GLU:HG3	1:h:391:ARG:NH2	2.26	0.49
1:j:325:VAL:O	1:j:672:THR:OG1	2.30	0.49
1:l:355:VAL:H	1:l:646:GLN:HE22	1.60	0.49
1:n:373:MET:HE1	1:z:659:PRO:HG2	1.93	0.49
1:w:325:VAL:O	1:w:672:THR:OG1	2.30	0.49
1:w:485:ARG:NH2	1:w:576:SER:OG	2.44	0.49
1:x:325:VAL:O	1:x:672:THR:OG1	2.30	0.49
1:y:529:GLU:O	1:y:567:LYS:NZ	2.43	0.49
1:A:325:VAL:O	1:A:672:THR:OG1	2.30	0.49
1:C:325:VAL:O	1:C:672:THR:OG1	2.30	0.49
1:G:362:GLY:HA2	1:W:662:PHE:HZ	1.77	0.49
1:L:325:VAL:O	1:L:672:THR:OG1	2.30	0.49
1:O:391:ARG:NH1	1:6:705:TYR:CE1	2.80	0.49
1:Q:355:VAL:H	1:Q:646:GLN:HE22	1.60	0.49
1:R:325:VAL:O	1:R:672:THR:OG1	2.30	0.49
1:X:260:ILE:HD13	1:X:278:SER:HB3	1.93	0.49
1:X:529:GLU:O	1:X:567:LYS:NZ	2.43	0.49
1:1:260:ILE:HD13	1:1:278:SER:HB3	1.93	0.49
1:2:355:VAL:H	1:2:646:GLN:HE22	1.60	0.49
1:b:325:VAL:O	1:b:672:THR:OG1	2.30	0.49
1:e:657:ASP:OD2	1:q:332:LYS:NZ	2.29	0.49
1:e:662:PHE:HZ	1:q:362:GLY:HA2	1.77	0.49
1:f:260:ILE:HD13	1:f:278:SER:HB3	1.93	0.49
1:l:662:PHE:HZ	1:r:362:GLY:HA2	1.77	0.49
1:o:325:VAL:O	1:o:672:THR:OG1	2.30	0.49
1:o:373:MET:HE1	1:v:659:PRO:HG2	1.94	0.49
1:r:325:VAL:O	1:r:672:THR:OG1	2.30	0.49
1:u:325:VAL:O	1:u:672:THR:OG1	2.30	0.49
1:v:373:MET:HE1	1:w:659:PRO:HG2	1.93	0.49
1:z:325:VAL:O	1:z:672:THR:OG1	2.30	0.49
1:7:325:VAL:O	1:7:672:THR:OG1	2.30	0.49
1:8:325:VAL:O	1:8:672:THR:OG1	2.30	0.49
1:A:362:GLY:HA2	1:E:662:PHE:HZ	1.77	0.49
1:B:662:PHE:HZ	1:C:362:GLY:HA2	1.77	0.49
1:E:355:VAL:H	1:E:646:GLN:HE22	1.60	0.49
1:G:325:VAL:O	1:G:672:THR:OG1	2.30	0.49
1:H:662:PHE:HZ	1:Z:362:GLY:HA2	1.77	0.49
1:I:362:GLY:HA2	1:J:662:PHE:HZ	1.77	0.49
1:J:262:ASN:ND2	1:J:273:ALA:HA	2.24	0.49
1:J:373:MET:HE1	1:1:659:PRO:HG2	1.93	0.49
1:K:325:VAL:O	1:K:672:THR:OG1	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:260:ILE:HD13	1:L:278:SER:HB3	1.93	0.49
1:L:373:MET:HE1	1:2:659:PRO:HG2	1.94	0.49
1:Q:252:TYR:OH	1:Q:374:ILE:O	2.21	0.49
1:T:362:GLY:HA2	1:U:662:PHE:HZ	1.77	0.49
1:2:373:MET:HE1	1:i:659:PRO:HG2	1.93	0.49
1:f:252:TYR:OH	1:f:374:ILE:O	2.22	0.49
1:m:355:VAL:H	1:m:646:GLN:HE22	1.60	0.49
1:n:262:ASN:ND2	1:n:273:ALA:HA	2.24	0.49
1:o:355:VAL:H	1:o:646:GLN:HE22	1.60	0.49
1:p:485:ARG:NH2	1:p:576:SER:OG	2.44	0.49
1:p:662:PHE:HZ	1:u:362:GLY:HA2	1.77	0.49
1:q:325:VAL:O	1:q:672:THR:OG1	2.30	0.49
1:r:299:GLN:O	1:r:303:ASN:ND2	2.35	0.49
1:t:325:VAL:O	1:t:672:THR:OG1	2.30	0.49
1:y:325:VAL:O	1:y:672:THR:OG1	2.30	0.49
1:A:485:ARG:NH2	1:A:576:SER:OG	2.44	0.49
1:B:485:ARG:NH2	1:B:576:SER:OG	2.44	0.49
1:G:565:GLU:HG3	1:I:391:ARG:NH2	2.28	0.49
1:K:260:ILE:HD13	1:K:278:SER:HB3	1.93	0.49
1:M:325:VAL:O	1:M:672:THR:OG1	2.30	0.49
1:M:362:GLY:HA2	1:N:662:PHE:HZ	1.78	0.49
1:Q:325:VAL:O	1:Q:672:THR:OG1	2.30	0.49
1:W:355:VAL:H	1:W:646:GLN:HE22	1.60	0.49
1:Z:662:PHE:HZ	1:1:362:GLY:HA2	1.77	0.49
1:a:325:VAL:O	1:a:672:THR:OG1	2.30	0.49
1:c:355:VAL:H	1:c:646:GLN:HE22	1.60	0.49
1:l:325:VAL:O	1:l:672:THR:OG1	2.30	0.49
1:n:362:GLY:HA2	1:z:662:PHE:HZ	1.78	0.49
1:n:662:PHE:HZ	1:s:362:GLY:HA2	1.78	0.49
1:o:260:ILE:HD13	1:o:278:SER:HB3	1.93	0.49
1:q:485:ARG:NH2	1:q:576:SER:OG	2.44	0.49
1:r:565:GLU:HG3	1:s:391:ARG:NH2	2.28	0.49
1:v:355:VAL:H	1:v:646:GLN:HE22	1.60	0.49
1:z:260:ILE:HD13	1:z:278:SER:HB3	1.93	0.49
1:z:355:VAL:H	1:z:646:GLN:HE22	1.60	0.49
1:7:355:VAL:H	1:7:646:GLN:HE22	1.60	0.49
1:B:391:ARG:NH2	1:L:565:GLU:HG3	2.28	0.49
1:D:325:VAL:O	1:D:672:THR:OG1	2.30	0.49
1:G:299:GLN:O	1:G:303:ASN:ND2	2.35	0.49
1:H:373:MET:HE1	1:I:659:PRO:HG2	1.93	0.49
1:H:565:GLU:HG3	1:W:391:ARG:NH2	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:391:ARG:NH2	1:8:565:GLU:HG3	2.28	0.49
1:R:260:ILE:HD13	1:R:278:SER:HB3	1.93	0.49
1:U:485:ARG:NH2	1:U:576:SER:OG	2.44	0.49
1:W:260:ILE:HD13	1:W:278:SER:HB3	1.93	0.49
1:W:325:VAL:O	1:W:672:THR:OG1	2.30	0.49
1:Y:260:ILE:HD13	1:Y:278:SER:HB3	1.93	0.49
1:Y:355:VAL:H	1:Y:646:GLN:HE22	1.60	0.49
1:1:355:VAL:H	1:1:646:GLN:HE22	1.60	0.49
1:5:662:PHE:HZ	1:t:362:GLY:HA2	1.78	0.49
1:6:485:ARG:NH2	1:6:576:SER:OG	2.44	0.49
1:c:325:VAL:O	1:c:672:THR:OG1	2.30	0.49
1:d:262:ASN:OD1	1:d:263:SER:N	2.46	0.49
1:e:355:VAL:H	1:e:646:GLN:HE22	1.60	0.49
1:h:355:VAL:H	1:h:646:GLN:HE22	1.60	0.49
1:j:362:GLY:HA2	1:k:662:PHE:HZ	1.78	0.49
1:k:565:GLU:HG3	1:l:391:ARG:NH2	2.28	0.49
1:l:260:ILE:HD13	1:l:278:SER:HB3	1.93	0.49
1:o:565:GLU:HG3	1:p:391:ARG:NH2	2.28	0.49
1:u:485:ARG:NH2	1:u:576:SER:OG	2.44	0.49
1:y:260:ILE:HD13	1:y:278:SER:HB3	1.93	0.49
1:y:391:ARG:NH2	1:7:565:GLU:HG3	2.28	0.49
1:8:355:VAL:H	1:8:646:GLN:HE22	1.60	0.49
1:B:262:ASN:OD1	1:B:263:SER:N	2.46	0.49
1:C:485:ARG:NH2	1:C:576:SER:OG	2.44	0.49
1:C:662:PHE:HZ	1:D:362:GLY:HA2	1.78	0.49
1:E:565:GLU:HG3	1:Q:391:ARG:NH2	2.28	0.49
1:F:262:ASN:OD1	1:F:263:SER:N	2.46	0.49
1:H:262:ASN:ND2	1:H:273:ALA:HA	2.24	0.49
1:H:391:ARG:NH2	1:Y:565:GLU:HG3	2.28	0.49
1:J:262:ASN:OD1	1:J:263:SER:N	2.46	0.49
1:V:260:ILE:HD13	1:V:278:SER:HB3	1.93	0.49
1:5:565:GLU:HG3	1:b:391:ARG:NH2	2.28	0.49
1:c:391:ARG:NH2	1:e:565:GLU:HG3	2.28	0.49
1:g:262:ASN:OD1	1:g:263:SER:N	2.46	0.49
1:h:260:ILE:HD13	1:h:278:SER:HB3	1.93	0.49
1:j:662:PHE:HZ	1:z:362:GLY:HA2	1.77	0.49
1:k:262:ASN:ND2	1:k:273:ALA:HA	2.24	0.49
1:k:332:LYS:NZ	1:s:657:ASP:OD2	2.29	0.49
1:k:362:GLY:HA2	1:s:662:PHE:HZ	1.77	0.49
1:k:391:ARG:NH2	1:m:565:GLU:HG3	2.28	0.49
1:m:260:ILE:HD13	1:m:278:SER:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:262:ASN:OD1	1:n:263:SER:N	2.46	0.49
1:p:262:ASN:OD1	1:p:263:SER:N	2.46	0.49
1:q:391:ARG:NH2	1:s:565:GLU:HG3	2.28	0.49
1:y:657:ASP:OD2	1:8:332:LYS:NZ	2.29	0.49
1:C:391:ARG:NH2	1:M:565:GLU:HG3	2.28	0.49
1:C:565:GLU:HG3	1:2:391:ARG:NH2	2.28	0.49
1:D:391:ARG:NH2	1:P:565:GLU:HG3	2.28	0.49
1:G:528:LYS:HD2	1:G:575:GLU:OE2	2.13	0.49
1:M:260:ILE:HD13	1:M:278:SER:HB3	1.93	0.49
1:N:565:GLU:HG3	1:P:391:ARG:NH2	2.28	0.49
1:O:398:GLU:HG3	1:6:369:ALA:CA	2.43	0.49
1:R:391:ARG:NH2	1:U:565:GLU:HG3	2.28	0.49
1:T:332:LYS:NZ	1:U:657:ASP:OD2	2.28	0.49
1:V:355:VAL:H	1:V:646:GLN:HE22	1.60	0.49
1:W:565:GLU:HG3	1:Y:391:ARG:NH2	2.28	0.49
1:X:262:ASN:OD1	1:X:263:SER:N	2.46	0.49
1:4:325:VAL:O	1:4:672:THR:OG1	2.30	0.49
1:5:262:ASN:OD1	1:5:263:SER:N	2.46	0.49
1:6:442:GLN:HG2	1:f:359:ALA:O	2.13	0.49
1:a:362:GLY:HA2	1:u:662:PHE:HZ	1.78	0.49
1:l:565:GLU:HG3	1:m:391:ARG:NH2	2.28	0.49
1:r:528:LYS:HD2	1:r:575:GLU:OE2	2.13	0.49
1:t:260:ILE:HD13	1:t:278:SER:HB3	1.93	0.49
1:t:565:GLU:HG3	1:u:391:ARG:NH2	2.28	0.49
1:x:415:TYR:OH	1:x:642:HIS:O	2.26	0.49
1:A:262:ASN:ND2	1:A:273:ALA:HA	2.24	0.49
1:A:332:LYS:NZ	1:E:657:ASP:OD2	2.29	0.49
1:I:528:LYS:HD2	1:I:575:GLU:OE2	2.13	0.49
1:M:262:ASN:OD1	1:M:263:SER:N	2.46	0.49
1:N:262:ASN:OD1	1:N:263:SER:N	2.46	0.49
1:O:325:VAL:O	1:O:672:THR:OG1	2.30	0.49
1:P:262:ASN:OD1	1:P:263:SER:N	2.46	0.49
1:Q:260:ILE:HD13	1:Q:278:SER:HB3	1.93	0.49
1:R:662:PHE:HZ	1:V:362:GLY:HA2	1.78	0.49
1:S:565:GLU:HG3	1:U:391:ARG:NH2	2.27	0.49
1:T:262:ASN:OD1	1:T:263:SER:N	2.46	0.49
1:U:362:GLY:HA2	1:4:662:PHE:HZ	1.77	0.49
1:X:355:VAL:H	1:X:646:GLN:HE22	1.60	0.49
1:2:325:VAL:O	1:2:672:THR:OG1	2.30	0.49
1:a:391:ARG:NH2	1:b:565:GLU:HG3	2.28	0.49
1:a:662:PHE:HZ	1:e:362:GLY:HA2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:262:ASN:OD1	1:b:263:SER:N	2.46	0.49
1:c:528:LYS:HD2	1:c:575:GLU:OE2	2.13	0.49
1:i:565:GLU:HG3	1:j:391:ARG:NH2	2.28	0.49
1:u:565:GLU:HG3	1:v:391:ARG:NH2	2.28	0.49
1:y:355:VAL:H	1:y:646:GLN:HE22	1.60	0.49
1:7:528:LYS:HD2	1:7:575:GLU:OE2	2.13	0.49
1:8:528:LYS:HD2	1:8:575:GLU:OE2	2.13	0.49
1:A:262:ASN:OD1	1:A:263:SER:N	2.46	0.49
1:C:657:ASP:OD2	1:D:332:LYS:NZ	2.29	0.49
1:E:528:LYS:HD2	1:E:575:GLU:OE2	2.13	0.49
1:F:373:MET:HE1	1:G:659:PRO:HG2	1.93	0.49
1:F:391:ARG:NH2	1:Q:565:GLU:HG3	2.28	0.49
1:H:362:GLY:HA2	1:I:662:PHE:HZ	1.78	0.49
1:I:325:VAL:O	1:I:672:THR:OG1	2.30	0.49
1:K:355:VAL:H	1:K:646:GLN:HE22	1.60	0.49
1:N:362:GLY:HA2	1:g:662:PHE:HZ	1.78	0.49
1:O:262:ASN:OD1	1:O:263:SER:N	2.46	0.49
1:Q:528:LYS:HD2	1:Q:575:GLU:OE2	2.13	0.49
1:S:262:ASN:OD1	1:S:263:SER:N	2.46	0.49
1:W:528:LYS:HD2	1:W:575:GLU:OE2	2.13	0.49
1:Z:391:ARG:NH2	1:w:565:GLU:HG3	2.28	0.49
1:2:528:LYS:HD2	1:2:575:GLU:OE2	2.13	0.49
1:3:415:TYR:OH	1:3:642:HIS:O	2.27	0.49
1:4:262:ASN:OD1	1:4:263:SER:N	2.46	0.49
1:4:373:MET:HE1	1:b:659:PRO:HG2	1.94	0.49
1:6:325:VAL:O	1:6:672:THR:OG1	2.30	0.49
1:a:332:LYS:NZ	1:u:657:ASP:OD2	2.29	0.49
1:c:260:ILE:HD13	1:c:278:SER:HB3	1.93	0.49
1:d:373:MET:HE1	1:r:659:PRO:HG2	1.93	0.49
1:l:528:LYS:HD2	1:l:575:GLU:OE2	2.13	0.49
1:q:262:ASN:OD1	1:q:263:SER:N	2.46	0.49
1:q:262:ASN:ND2	1:q:273:ALA:HA	2.24	0.49
1:q:619:TRP:CZ2	1:q:644:PRO:HG2	2.48	0.49
1:s:325:VAL:O	1:s:672:THR:OG1	2.30	0.49
1:s:529:GLU:O	1:s:567:LYS:NZ	2.43	0.49
1:t:262:ASN:OD1	1:t:263:SER:N	2.46	0.49
1:t:619:TRP:CZ2	1:t:644:PRO:HG2	2.48	0.49
1:v:325:VAL:O	1:v:672:THR:OG1	2.30	0.49
1:v:362:GLY:HA2	1:w:662:PHE:HZ	1.77	0.49
1:v:528:LYS:HD2	1:v:575:GLU:OE2	2.13	0.49
1:A:260:ILE:HD13	1:A:278:SER:HB3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:391:ARG:NH2	1:I:565:GLU:HG3	2.28	0.49
1:A:528:LYS:HD2	1:A:575:GLU:OE2	2.13	0.49
1:A:657:ASP:OD2	1:B:332:LYS:NZ	2.29	0.49
1:B:528:LYS:HD2	1:B:575:GLU:OE2	2.13	0.49
1:B:565:GLU:HG3	1:J:391:ARG:NH2	2.27	0.49
1:D:662:PHE:HZ	1:E:362:GLY:HA2	1.77	0.49
1:E:391:ARG:NH2	1:F:565:GLU:HG3	2.28	0.49
1:H:355:VAL:H	1:H:646:GLN:HE22	1.60	0.49
1:I:529:GLU:O	1:I:567:LYS:NZ	2.43	0.49
1:M:619:TRP:CZ2	1:M:644:PRO:HG2	2.48	0.49
1:R:262:ASN:OD1	1:R:263:SER:N	2.46	0.49
1:U:325:VAL:O	1:U:672:THR:OG1	2.30	0.49
1:X:391:ARG:NH2	1:4:565:GLU:HG3	2.28	0.49
1:X:528:LYS:HD2	1:X:575:GLU:OE2	2.13	0.49
1:Y:262:ASN:OD1	1:Y:263:SER:N	2.46	0.49
1:Z:528:LYS:HD2	1:Z:575:GLU:OE2	2.13	0.49
1:2:362:GLY:HA2	1:i:662:PHE:HZ	1.77	0.49
1:5:528:LYS:HD2	1:5:575:GLU:OE2	2.13	0.49
1:c:565:GLU:HG3	1:d:391:ARG:NH2	2.28	0.49
1:d:565:GLU:HG3	1:e:391:ARG:NH2	2.28	0.49
1:e:528:LYS:HD2	1:e:575:GLU:OE2	2.13	0.49
1:f:262:ASN:OD1	1:f:263:SER:N	2.46	0.49
1:g:355:VAL:H	1:g:646:GLN:HE22	1.60	0.49
1:g:528:LYS:HD2	1:g:575:GLU:OE2	2.13	0.49
1:i:355:VAL:H	1:i:646:GLN:HE22	1.60	0.49
1:k:355:VAL:H	1:k:646:GLN:HE22	1.60	0.49
1:m:262:ASN:OD1	1:m:263:SER:N	2.46	0.49
1:o:528:LYS:HD2	1:o:575:GLU:OE2	2.13	0.49
1:p:528:LYS:HD2	1:p:575:GLU:OE2	2.13	0.49
1:s:528:LYS:HD2	1:s:575:GLU:OE2	2.13	0.49
1:w:355:VAL:H	1:w:646:GLN:HE22	1.60	0.49
1:x:262:ASN:OD1	1:x:263:SER:N	2.46	0.49
1:y:262:ASN:OD1	1:y:263:SER:N	2.46	0.49
1:z:565:GLU:HG3	1:7:391:ARG:NH2	2.28	0.49
1:7:262:ASN:OD1	1:7:263:SER:N	2.46	0.49
1:A:619:TRP:CZ2	1:A:644:PRO:HG2	2.48	0.48
1:F:325:VAL:O	1:F:672:THR:OG1	2.30	0.48
1:G:355:VAL:H	1:G:646:GLN:HE22	1.60	0.48
1:J:325:VAL:O	1:J:672:THR:OG1	2.30	0.48
1:K:262:ASN:OD1	1:K:263:SER:N	2.46	0.48
1:L:528:LYS:HD2	1:L:575:GLU:OE2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:450:THR:HG23	1:g:502:ALA:HB2	1.95	0.48
1:V:662:PHE:HZ	1:W:362:GLY:HA2	1.78	0.48
1:Y:528:LYS:HD2	1:Y:575:GLU:OE2	2.13	0.48
1:1:565:GLU:HG3	1:8:391:ARG:NH2	2.28	0.48
1:5:325:VAL:O	1:5:672:THR:OG1	2.30	0.48
1:6:262:ASN:OD1	1:6:263:SER:N	2.46	0.48
1:a:262:ASN:OD1	1:a:263:SER:N	2.46	0.48
1:d:325:VAL:O	1:d:672:THR:OG1	2.30	0.48
1:i:619:TRP:CZ2	1:i:644:PRO:HG2	2.48	0.48
1:j:528:LYS:HD2	1:j:575:GLU:OE2	2.13	0.48
1:m:528:LYS:HD2	1:m:575:GLU:OE2	2.13	0.48
1:n:391:ARG:NH2	1:p:565:GLU:HG3	2.27	0.48
1:q:528:LYS:HD2	1:q:575:GLU:OE2	2.13	0.48
1:u:262:ASN:OD1	1:u:263:SER:N	2.46	0.48
1:v:252:TYR:OH	1:v:374:ILE:O	2.21	0.48
1:v:519:ASN:HD22	1:v:519:ASN:HA	1.51	0.48
1:w:619:TRP:CZ2	1:w:644:PRO:HG2	2.48	0.48
1:8:262:ASN:OD1	1:8:263:SER:N	2.46	0.48
1:A:497:ASN:ND2	1:I:590:GLN:HA	2.28	0.48
1:C:262:ASN:OD1	1:C:263:SER:N	2.46	0.48
1:H:332:LYS:NZ	1:I:657:ASP:OD2	2.29	0.48
1:H:619:TRP:CZ2	1:H:644:PRO:HG2	2.48	0.48
1:N:325:VAL:O	1:N:672:THR:OG1	2.30	0.48
1:N:528:LYS:HD2	1:N:575:GLU:OE2	2.13	0.48
1:N:619:TRP:CZ2	1:N:644:PRO:HG2	2.48	0.48
1:P:528:LYS:HD2	1:P:575:GLU:OE2	2.13	0.48
1:Q:262:ASN:OD1	1:Q:263:SER:N	2.46	0.48
1:T:325:VAL:O	1:T:672:THR:OG1	2.30	0.48
1:U:262:ASN:OD1	1:U:263:SER:N	2.46	0.48
1:X:262:ASN:ND2	1:X:273:ALA:HA	2.24	0.48
1:X:619:TRP:CZ2	1:X:644:PRO:HG2	2.48	0.48
1:Z:565:GLU:HG3	1:x:391:ARG:NH2	2.28	0.48
1:3:262:ASN:OD1	1:3:263:SER:N	2.46	0.48
1:5:590:GLN:HA	1:b:497:ASN:ND2	2.28	0.48
1:5:619:TRP:CZ2	1:5:644:PRO:HG2	2.48	0.48
1:6:528:LYS:HD2	1:6:575:GLU:OE2	2.13	0.48
1:b:528:LYS:HD2	1:b:575:GLU:OE2	2.13	0.48
1:c:262:ASN:OD1	1:c:263:SER:N	2.46	0.48
1:c:619:TRP:CZ2	1:c:644:PRO:HG2	2.48	0.48
1:d:659:PRO:HG2	1:f:373:MET:HE1	1.95	0.48
1:i:415:TYR:OH	1:i:642:HIS:O	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:619:TRP:CZ2	1:k:644:PRO:HG2	2.48	0.48
1:m:325:VAL:O	1:m:672:THR:OG1	2.30	0.48
1:n:325:VAL:O	1:n:672:THR:OG1	2.30	0.48
1:r:355:VAL:H	1:r:646:GLN:HE22	1.60	0.48
1:t:657:ASP:OD2	1:x:332:LYS:NZ	2.29	0.48
1:w:362:GLY:HA2	1:8:662:PHE:HZ	1.78	0.48
1:x:619:TRP:CZ2	1:x:644:PRO:HG2	2.48	0.48
1:D:231:ASP:O	1:D:242:THR:OG1	2.22	0.48
1:D:262:ASN:OD1	1:D:263:SER:N	2.46	0.48
1:E:262:ASN:OD1	1:E:263:SER:N	2.46	0.48
1:E:325:VAL:O	1:E:672:THR:OG1	2.30	0.48
1:K:497:ASN:ND2	1:8:590:GLN:HA	2.29	0.48
1:M:355:VAL:H	1:M:646:GLN:HE22	1.60	0.48
1:Q:373:MET:HE1	1:S:659:PRO:HG2	1.94	0.48
1:S:252:TYR:HE1	1:6:660:THR:O	1.95	0.48
1:U:528:LYS:HD2	1:U:575:GLU:OE2	2.13	0.48
1:V:391:ARG:NH2	1:X:565:GLU:HG3	2.27	0.48
1:Y:325:VAL:O	1:Y:672:THR:OG1	2.30	0.48
1:Z:262:ASN:OD1	1:Z:263:SER:N	2.46	0.48
1:3:528:LYS:HD2	1:3:575:GLU:OE2	2.13	0.48
1:3:619:TRP:CZ2	1:3:644:PRO:HG2	2.48	0.48
1:a:529:GLU:O	1:a:567:LYS:NZ	2.43	0.48
1:e:325:VAL:O	1:e:672:THR:OG1	2.30	0.48
1:f:619:TRP:CZ2	1:f:644:PRO:HG2	2.48	0.48
1:g:262:ASN:ND2	1:g:273:ALA:HA	2.23	0.48
1:k:325:VAL:O	1:k:672:THR:OG1	2.30	0.48
1:q:260:ILE:HD13	1:q:278:SER:HB3	1.93	0.48
1:q:565:GLU:HG3	1:r:391:ARG:NH2	2.28	0.48
1:t:355:VAL:H	1:t:646:GLN:HE22	1.60	0.48
1:w:391:ARG:NH2	1:x:565:GLU:HG3	2.28	0.48
1:y:497:ASN:ND2	1:7:590:GLN:HA	2.29	0.48
1:B:619:TRP:CZ2	1:B:644:PRO:HG2	2.48	0.48
1:C:528:LYS:HD2	1:C:575:GLU:OE2	2.13	0.48
1:F:497:ASN:ND2	1:Q:590:GLN:HA	2.29	0.48
1:F:657:ASP:OD2	1:R:332:LYS:NZ	2.29	0.48
1:K:619:TRP:CZ2	1:K:644:PRO:HG2	2.48	0.48
1:L:619:TRP:CZ2	1:L:644:PRO:HG2	2.48	0.48
1:O:373:MET:HE1	1:P:659:PRO:HG2	1.95	0.48
1:Q:619:TRP:CZ2	1:Q:644:PRO:HG2	2.48	0.48
1:R:619:TRP:CZ2	1:R:644:PRO:HG2	2.48	0.48
1:S:325:VAL:O	1:S:672:THR:OG1	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:350:TYR:OH	1:U:643:PRO:O	2.31	0.48
1:V:262:ASN:OD1	1:V:263:SER:N	2.46	0.48
1:3:391:ARG:NH2	1:j:565:GLU:HG3	2.28	0.48
1:a:497:ASN:ND2	1:b:590:GLN:HA	2.29	0.48
1:e:262:ASN:OD1	1:e:263:SER:N	2.46	0.48
1:g:619:TRP:CZ2	1:g:644:PRO:HG2	2.48	0.48
1:i:362:GLY:HA2	1:7:662:PHE:HZ	1.78	0.48
1:l:262:ASN:OD1	1:l:263:SER:N	2.46	0.48
1:r:260:ILE:HD13	1:r:278:SER:HB3	1.93	0.48
1:u:528:LYS:HD2	1:u:575:GLU:OE2	2.13	0.48
1:v:299:GLN:O	1:v:303:ASN:ND2	2.35	0.48
1:x:528:LYS:HD2	1:x:575:GLU:OE2	2.13	0.48
1:A:355:VAL:H	1:A:646:GLN:HE22	1.60	0.48
1:C:590:GLN:HA	1:2:497:ASN:ND2	2.28	0.48
1:D:528:LYS:HD2	1:D:575:GLU:OE2	2.13	0.48
1:D:619:TRP:CZ2	1:D:644:PRO:HG2	2.48	0.48
1:G:260:ILE:HD13	1:G:278:SER:HB3	1.93	0.48
1:H:325:VAL:O	1:H:672:THR:OG1	2.30	0.48
1:L:262:ASN:OD1	1:L:263:SER:N	2.46	0.48
1:L:262:ASN:ND2	1:L:273:ALA:HA	2.24	0.48
1:S:437:ASN:HB2	1:U:355:VAL:HG11	1.95	0.48
1:Z:262:ASN:ND2	1:Z:273:ALA:HA	2.24	0.48
1:2:299:GLN:O	1:2:303:ASN:ND2	2.35	0.48
1:3:565:GLU:HG3	1:i:391:ARG:NH2	2.28	0.48
1:6:350:TYR:OH	1:6:643:PRO:O	2.31	0.48
1:a:619:TRP:CZ2	1:a:644:PRO:HG2	2.48	0.48
1:c:590:GLN:HA	1:d:497:ASN:ND2	2.29	0.48
1:h:262:ASN:OD1	1:h:263:SER:N	2.46	0.48
1:j:262:ASN:OD1	1:j:263:SER:N	2.46	0.48
1:j:355:VAL:H	1:j:646:GLN:HE22	1.60	0.48
1:n:497:ASN:ND2	1:p:590:GLN:HA	2.29	0.48
1:o:619:TRP:CZ2	1:o:644:PRO:HG2	2.48	0.48
1:p:619:TRP:CZ2	1:p:644:PRO:HG2	2.48	0.48
1:t:528:LYS:HD2	1:t:575:GLU:OE2	2.13	0.48
1:u:590:GLN:HA	1:v:497:ASN:ND2	2.29	0.48
1:y:565:GLU:HG3	1:z:391:ARG:NH2	2.28	0.48
1:y:619:TRP:CZ2	1:y:644:PRO:HG2	2.48	0.48
1:z:528:LYS:HD2	1:z:575:GLU:OE2	2.13	0.48
1:B:350:TYR:OH	1:B:643:PRO:O	2.31	0.48
1:B:590:GLN:HA	1:J:497:ASN:ND2	2.29	0.48
1:G:262:ASN:OD1	1:G:263:SER:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:565:GLU:HG3	1:1:391:ARG:NH2	2.28	0.48
1:M:528:LYS:HD2	1:M:575:GLU:OE2	2.13	0.48
1:M:662:PHE:HZ	1:3:362:GLY:HA2	1.77	0.48
1:N:590:GLN:HA	1:P:497:ASN:ND2	2.29	0.48
1:O:355:VAL:H	1:O:646:GLN:HE22	1.60	0.48
1:R:659:PRO:HG2	1:V:373:MET:HE1	1.93	0.48
1:T:619:TRP:CZ2	1:T:644:PRO:HG2	2.48	0.48
1:V:497:ASN:ND2	1:X:590:GLN:HA	2.29	0.48
1:W:262:ASN:OD1	1:W:263:SER:N	2.46	0.48
1:1:262:ASN:OD1	1:1:263:SER:N	2.46	0.48
1:2:252:TYR:OH	1:2:374:ILE:O	2.21	0.48
1:6:565:GLU:HG3	1:f:391:ARG:NH2	2.27	0.48
1:b:355:VAL:H	1:b:646:GLN:HE22	1.60	0.48
1:f:528:LYS:HD2	1:f:575:GLU:OE2	2.13	0.48
1:o:262:ASN:OD1	1:o:263:SER:N	2.46	0.48
1:p:332:LYS:NZ	1:q:657:ASP:OD2	2.29	0.48
1:p:350:TYR:OH	1:p:643:PRO:O	2.31	0.48
1:p:362:GLY:HA2	1:q:662:PHE:HZ	1.78	0.48
1:r:262:ASN:OD1	1:r:263:SER:N	2.46	0.48
1:s:262:ASN:OD1	1:s:263:SER:N	2.46	0.48
1:t:497:ASN:ND2	1:v:590:GLN:HA	2.29	0.48
1:C:262:ASN:ND2	1:C:273:ALA:HA	2.24	0.48
1:C:619:TRP:CZ2	1:C:644:PRO:HG2	2.48	0.48
1:E:497:ASN:ND2	1:F:590:GLN:HA	2.29	0.48
1:F:362:GLY:HA2	1:G:662:PHE:HZ	1.77	0.48
1:I:262:ASN:OD1	1:I:263:SER:N	2.46	0.48
1:K:314:ASN:HB3	1:K:682:GLU:HG2	1.96	0.48
1:K:332:LYS:NZ	1:L:657:ASP:OD2	2.30	0.48
1:M:299:GLN:O	1:M:303:ASN:ND2	2.35	0.48
1:M:391:ARG:NH2	1:2:565:GLU:HG3	2.28	0.48
1:M:497:ASN:ND2	1:2:590:GLN:HA	2.29	0.48
1:O:391:ARG:HG3	1:6:705:TYR:HE1	1.79	0.48
1:P:355:VAL:H	1:P:646:GLN:HE22	1.60	0.48
1:R:528:LYS:HD2	1:R:575:GLU:OE2	2.13	0.48
1:S:619:TRP:CZ2	1:S:644:PRO:HG2	2.48	0.48
1:S:674:TYR:CE2	1:6:657:ASP:HA	2.48	0.48
1:V:314:ASN:HB3	1:V:682:GLU:HG2	1.96	0.48
1:V:565:GLU:HG3	1:4:391:ARG:NH2	2.29	0.48
1:W:314:ASN:HB3	1:W:682:GLU:HG2	1.96	0.48
1:Z:355:VAL:H	1:Z:646:GLN:HE22	1.60	0.48
1:1:528:LYS:HD2	1:1:575:GLU:OE2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:619:TRP:CZ2	1:1:644:PRO:HG2	2.48	0.48
1:3:662:PHE:HZ	1:m:362:GLY:HA2	1.77	0.48
1:4:355:VAL:H	1:4:646:GLN:HE22	1.60	0.48
1:a:528:LYS:HD2	1:a:575:GLU:OE2	2.13	0.48
1:d:362:GLY:HA2	1:r:662:PHE:HZ	1.78	0.48
1:d:529:GLU:O	1:d:567:LYS:NZ	2.43	0.48
1:d:619:TRP:CZ2	1:d:644:PRO:HG2	2.48	0.48
1:d:662:PHE:HZ	1:f:362:GLY:HA2	1.79	0.48
1:g:325:VAL:O	1:g:672:THR:OG1	2.30	0.48
1:i:262:ASN:ND2	1:i:273:ALA:HA	2.24	0.48
1:j:262:ASN:ND2	1:j:273:ALA:HA	2.24	0.48
1:l:314:ASN:HB3	1:l:682:GLU:HG2	1.96	0.48
1:n:528:LYS:HD2	1:n:575:GLU:OE2	2.13	0.48
1:p:325:VAL:O	1:p:672:THR:OG1	2.30	0.48
1:q:355:VAL:H	1:q:646:GLN:HE22	1.60	0.48
1:q:497:ASN:ND2	1:s:590:GLN:HA	2.29	0.48
1:s:350:TYR:OH	1:s:643:PRO:O	2.31	0.48
1:t:391:ARG:NH2	1:v:565:GLU:HG3	2.28	0.48
1:u:619:TRP:CZ2	1:u:644:PRO:HG2	2.48	0.48
1:w:519:ASN:HD22	1:w:519:ASN:HA	1.51	0.48
1:x:529:GLU:O	1:x:567:LYS:NZ	2.43	0.48
1:y:314:ASN:HB3	1:y:682:GLU:HG2	1.96	0.48
1:z:262:ASN:OD1	1:z:263:SER:N	2.46	0.48
1:z:619:TRP:CZ2	1:z:644:PRO:HG2	2.48	0.48
1:A:565:GLU:HG3	1:G:391:ARG:NH2	2.28	0.48
1:A:662:PHE:HZ	1:B:362:GLY:HA2	1.78	0.48
1:B:325:VAL:O	1:B:672:THR:OG1	2.30	0.48
1:C:497:ASN:ND2	1:M:590:GLN:HA	2.29	0.48
1:D:497:ASN:ND2	1:P:590:GLN:HA	2.29	0.48
1:D:565:GLU:HG3	1:N:391:ARG:NH2	2.28	0.48
1:F:619:TRP:CZ2	1:F:644:PRO:HG2	2.48	0.48
1:H:497:ASN:ND2	1:Y:590:GLN:HA	2.29	0.48
1:J:528:LYS:HD2	1:J:575:GLU:OE2	2.13	0.48
1:J:619:TRP:CZ2	1:J:644:PRO:HG2	2.48	0.48
1:R:450:THR:HG23	1:S:502:ALA:HB2	1.95	0.48
1:T:441:ASP:OD2	1:6:550:ARG:CZ	2.56	0.48
1:V:528:LYS:HD2	1:V:575:GLU:OE2	2.13	0.48
1:X:325:VAL:O	1:X:672:THR:OG1	2.30	0.48
1:2:262:ASN:OD1	1:2:263:SER:N	2.46	0.48
1:b:619:TRP:CZ2	1:b:644:PRO:HG2	2.48	0.48
1:d:314:ASN:HB3	1:d:682:GLU:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:590:GLN:HA	1:e:497:ASN:ND2	2.29	0.48
1:g:480:PRO:HB3	1:h:511:LEU:HD12	1.96	0.48
1:k:497:ASN:ND2	1:m:590:GLN:HA	2.29	0.48
1:n:619:TRP:CZ2	1:n:644:PRO:HG2	2.48	0.48
1:o:262:ASN:ND2	1:o:273:ALA:HA	2.24	0.48
1:v:262:ASN:OD1	1:v:263:SER:N	2.46	0.48
1:v:350:TYR:OH	1:v:643:PRO:O	2.31	0.48
1:8:619:TRP:CZ2	1:8:644:PRO:HG2	2.48	0.48
1:F:314:ASN:HB3	1:F:682:GLU:HG2	1.96	0.48
1:G:437:ASN:HB2	1:I:355:VAL:HG11	1.96	0.48
1:H:528:LYS:HD2	1:H:575:GLU:OE2	2.13	0.48
1:K:287:ASN:O	1:K:618:ILE:N	2.44	0.48
1:S:528:LYS:HD2	1:S:575:GLU:OE2	2.13	0.48
1:Y:619:TRP:CZ2	1:Y:644:PRO:HG2	2.48	0.48
1:Z:590:GLN:HA	1:x:497:ASN:ND2	2.29	0.48
1:Z:619:TRP:CZ2	1:Z:644:PRO:HG2	2.48	0.48
1:2:350:TYR:OH	1:2:643:PRO:O	2.31	0.48
1:5:391:ARG:NH2	1:a:565:GLU:HG3	2.28	0.48
1:h:314:ASN:HB3	1:h:682:GLU:HG2	1.96	0.48
1:j:619:TRP:CZ2	1:j:644:PRO:HG2	2.48	0.48
1:k:528:LYS:HD2	1:k:575:GLU:OE2	2.13	0.48
1:m:619:TRP:CZ2	1:m:644:PRO:HG2	2.48	0.48
1:s:355:VAL:H	1:s:646:GLN:HE22	1.60	0.48
1:s:619:TRP:CZ2	1:s:644:PRO:HG2	2.48	0.48
1:t:590:GLN:HA	1:u:497:ASN:ND2	2.29	0.48
1:u:262:ASN:ND2	1:u:273:ALA:HA	2.24	0.48
1:A:287:ASN:O	1:A:618:ILE:N	2.44	0.48
1:C:252:TYR:OH	1:C:374:ILE:O	2.21	0.48
1:E:314:ASN:HB3	1:E:682:GLU:HG2	1.96	0.48
1:F:528:LYS:HD2	1:F:575:GLU:OE2	2.13	0.48
1:H:262:ASN:OD1	1:H:263:SER:N	2.46	0.48
1:I:350:TYR:OH	1:I:643:PRO:O	2.31	0.48
1:I:619:TRP:CZ2	1:I:644:PRO:HG2	2.48	0.48
1:J:252:TYR:OH	1:J:374:ILE:O	2.21	0.48
1:K:528:LYS:HD2	1:K:575:GLU:OE2	2.13	0.48
1:P:619:TRP:CZ2	1:P:644:PRO:HG2	2.48	0.48
1:Q:362:GLY:HA2	1:S:662:PHE:HZ	1.79	0.48
1:T:383:ASN:ND2	1:T:385:GLY:O	2.47	0.48
1:T:497:ASN:ND2	1:f:590:GLN:HA	2.28	0.48
1:W:590:GLN:HA	1:Y:497:ASN:ND2	2.28	0.48
1:3:314:ASN:HB3	1:3:682:GLU:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:657:ASP:OD2	1:m:332:LYS:NZ	2.29	0.48
1:6:619:TRP:CZ2	1:6:644:PRO:HG2	2.48	0.48
1:e:314:ASN:HB3	1:e:682:GLU:HG2	1.96	0.48
1:i:519:ASN:HD22	1:i:519:ASN:HA	1.51	0.48
1:i:590:GLN:HA	1:j:497:ASN:ND2	2.29	0.48
1:k:262:ASN:OD1	1:k:263:SER:N	2.46	0.48
1:n:252:TYR:OH	1:n:374:ILE:O	2.21	0.48
1:v:619:TRP:CZ2	1:v:644:PRO:HG2	2.48	0.48
1:w:262:ASN:ND2	1:w:273:ALA:HA	2.24	0.48
1:y:590:GLN:HA	1:z:497:ASN:ND2	2.29	0.48
1:y:662:PHE:HZ	1:8:362:GLY:HA2	1.78	0.48
1:7:619:TRP:CZ2	1:7:644:PRO:HG2	2.48	0.48
1:H:590:GLN:HA	1:W:497:ASN:ND2	2.28	0.47
1:I:314:ASN:HB3	1:I:682:GLU:HG2	1.96	0.47
1:I:355:VAL:H	1:I:646:GLN:HE22	1.60	0.47
1:I:383:ASN:ND2	1:I:385:GLY:O	2.47	0.47
1:K:383:ASN:ND2	1:K:385:GLY:O	2.47	0.47
1:K:662:PHE:HZ	1:7:362:GLY:HA2	1.77	0.47
1:N:383:ASN:ND2	1:N:385:GLY:O	2.47	0.47
1:R:565:GLU:HG3	1:S:391:ARG:NH2	2.29	0.47
1:S:383:ASN:ND2	1:S:385:GLY:O	2.47	0.47
1:S:590:GLN:HA	1:U:497:ASN:ND2	2.29	0.47
1:U:619:TRP:CZ2	1:U:644:PRO:HG2	2.48	0.47
1:V:325:VAL:O	1:V:672:THR:OG1	2.30	0.47
1:Y:362:GLY:HA2	1:x:662:PHE:HZ	1.77	0.47
1:Z:497:ASN:ND2	1:w:590:GLN:HA	2.29	0.47
1:2:619:TRP:CZ2	1:2:644:PRO:HG2	2.48	0.47
1:f:314:ASN:HB3	1:f:682:GLU:HG2	1.96	0.47
1:h:528:LYS:HD2	1:h:575:GLU:OE2	2.13	0.47
1:l:619:TRP:CZ2	1:l:644:PRO:HG2	2.48	0.47
1:n:314:ASN:HB3	1:n:682:GLU:HG2	1.96	0.47
1:r:437:ASN:HB2	1:s:355:VAL:HG11	1.96	0.47
1:s:314:ASN:HB3	1:s:682:GLU:HG2	1.96	0.47
1:t:662:PHE:HZ	1:x:362:GLY:HA2	1.78	0.47
1:w:262:ASN:OD1	1:w:263:SER:N	2.46	0.47
1:y:287:ASN:O	1:y:618:ILE:N	2.44	0.47
1:y:383:ASN:ND2	1:y:385:GLY:O	2.47	0.47
1:y:528:LYS:HD2	1:y:575:GLU:OE2	2.13	0.47
1:7:383:ASN:ND2	1:7:385:GLY:O	2.47	0.47
1:B:383:ASN:ND2	1:B:385:GLY:O	2.47	0.47
1:B:511:LEU:HD12	1:L:480:PRO:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:262:ASN:ND2	1:G:273:ALA:HA	2.24	0.47
1:G:590:GLN:HA	1:I:497:ASN:ND2	2.28	0.47
1:H:355:VAL:HG11	1:Y:437:ASN:HB2	1.96	0.47
1:J:314:ASN:HB3	1:J:682:GLU:HG2	1.96	0.47
1:K:590:GLN:HA	1:I:497:ASN:ND2	2.29	0.47
1:M:355:VAL:HG11	1:2:437:ASN:HB2	1.96	0.47
1:M:383:ASN:ND2	1:M:385:GLY:O	2.47	0.47
1:O:528:LYS:HD2	1:O:575:GLU:OE2	2.13	0.47
1:R:314:ASN:HB3	1:R:682:GLU:HG2	1.96	0.47
1:T:528:LYS:HD2	1:T:575:GLU:OE2	2.13	0.47
1:V:511:LEU:HD12	1:X:480:PRO:HB3	1.96	0.47
1:W:262:ASN:ND2	1:W:273:ALA:HA	2.24	0.47
1:W:619:TRP:CZ2	1:W:644:PRO:HG2	2.48	0.47
1:X:502:ALA:HB2	1:4:450:THR:HG23	1.96	0.47
1:3:497:ASN:ND2	1:j:590:GLN:HA	2.29	0.47
1:4:528:LYS:HD2	1:4:575:GLU:OE2	2.13	0.47
1:5:383:ASN:ND2	1:5:385:GLY:O	2.47	0.47
1:d:528:LYS:HD2	1:d:575:GLU:OE2	2.13	0.47
1:k:355:VAL:HG11	1:m:437:ASN:HB2	1.96	0.47
1:o:480:PRO:HB3	1:p:511:LEU:HD12	1.97	0.47
1:p:383:ASN:ND2	1:p:385:GLY:O	2.47	0.47
1:q:287:ASN:O	1:q:618:ILE:N	2.44	0.47
1:s:383:ASN:ND2	1:s:385:GLY:O	2.47	0.47
1:t:299:GLN:O	1:t:303:ASN:ND2	2.35	0.47
1:t:383:ASN:ND2	1:t:385:GLY:O	2.47	0.47
1:v:314:ASN:HB3	1:v:682:GLU:HG2	1.96	0.47
1:x:314:ASN:HB3	1:x:682:GLU:HG2	1.96	0.47
1:y:355:VAL:HG11	1:7:437:ASN:HB2	1.96	0.47
1:y:437:ASN:HB2	1:z:355:VAL:HG11	1.97	0.47
1:A:355:VAL:HG11	1:I:437:ASN:HB2	1.97	0.47
1:E:590:GLN:HA	1:Q:497:ASN:ND2	2.29	0.47
1:H:437:ASN:HB2	1:W:355:VAL:HG13	1.97	0.47
1:J:565:GLU:HG3	1:L:391:ARG:NH2	2.29	0.47
1:K:262:ASN:ND2	1:K:273:ALA:HA	2.24	0.47
1:K:355:VAL:HG11	1:8:437:ASN:HB2	1.96	0.47
1:O:425:SER:HB2	1:O:729:THR:O	2.15	0.47
1:P:383:ASN:ND2	1:P:385:GLY:O	2.47	0.47
1:T:567:LYS:HD3	1:6:512:ASN:ND2	2.29	0.47
1:U:383:ASN:ND2	1:U:385:GLY:O	2.47	0.47
1:Y:332:LYS:NZ	1:x:657:ASP:OD2	2.29	0.47
1:Y:383:ASN:ND2	1:Y:385:GLY:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:314:ASN:HB3	1:Z:682:GLU:HG2	1.96	0.47
1:2:314:ASN:HB3	1:2:682:GLU:HG2	1.96	0.47
1:5:480:PRO:HB3	1:b:511:LEU:HD12	1.97	0.47
1:6:383:ASN:ND2	1:6:385:GLY:O	2.47	0.47
1:b:383:ASN:ND2	1:b:385:GLY:O	2.47	0.47
1:c:497:ASN:ND2	1:e:590:GLN:HA	2.29	0.47
1:h:325:VAL:O	1:h:672:THR:OG1	2.30	0.47
1:i:262:ASN:OD1	1:i:263:SER:N	2.46	0.47
1:i:528:LYS:HD2	1:i:575:GLU:OE2	2.13	0.47
1:j:314:ASN:HB3	1:j:682:GLU:HG2	1.96	0.47
1:l:590:GLN:HA	1:m:497:ASN:ND2	2.29	0.47
1:m:383:ASN:ND2	1:m:385:GLY:O	2.47	0.47
1:r:262:ASN:ND2	1:r:273:ALA:HA	2.24	0.47
1:t:355:VAL:HG11	1:v:437:ASN:HB2	1.96	0.47
1:u:252:TYR:OH	1:u:374:ILE:O	2.21	0.47
1:v:332:LYS:NZ	1:w:657:ASP:OD2	2.29	0.47
1:w:528:LYS:HD2	1:w:575:GLU:OE2	2.13	0.47
1:y:262:ASN:ND2	1:y:273:ALA:HA	2.24	0.47
1:8:383:ASN:ND2	1:8:385:GLY:O	2.47	0.47
1:F:425:SER:HB2	1:F:729:THR:O	2.15	0.47
1:L:383:ASN:ND2	1:L:385:GLY:O	2.47	0.47
1:M:314:ASN:HB3	1:M:682:GLU:HG2	1.96	0.47
1:O:565:GLU:HG3	1:g:391:ARG:NH2	2.29	0.47
1:O:619:TRP:CZ2	1:O:644:PRO:HG2	2.48	0.47
1:P:314:ASN:HB3	1:P:682:GLU:HG2	1.96	0.47
1:S:703:SER:O	1:T:699:ILE:HG12	2.15	0.47
1:T:391:ARG:NH2	1:f:565:GLU:HG3	2.29	0.47
1:Y:425:SER:HB2	1:Y:729:THR:O	2.15	0.47
1:3:590:GLN:HA	1:i:497:ASN:ND2	2.29	0.47
1:4:362:GLY:HA2	1:b:662:PHE:HZ	1.78	0.47
1:4:425:SER:HB2	1:4:729:THR:O	2.15	0.47
1:6:415:TYR:OH	1:6:642:HIS:O	2.27	0.47
1:b:314:ASN:HB3	1:b:682:GLU:HG2	1.96	0.47
1:d:425:SER:HB2	1:d:729:THR:O	2.15	0.47
1:k:590:GLN:HA	1:l:497:ASN:ND2	2.29	0.47
1:l:262:ASN:ND2	1:l:273:ALA:HA	2.24	0.47
1:m:425:SER:HB2	1:m:729:THR:O	2.15	0.47
1:n:565:GLU:HG3	1:o:391:ARG:NH2	2.29	0.47
1:q:355:VAL:HG11	1:s:437:ASN:HB2	1.97	0.47
1:q:450:THR:HG23	1:r:502:ALA:HB2	1.97	0.47
1:r:590:GLN:HA	1:s:497:ASN:ND2	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:619:TRP:CZ2	1:r:644:PRO:HG2	2.48	0.47
1:B:502:ALA:HB2	1:L:450:THR:HG23	1.96	0.47
1:C:437:ASN:HB2	1:2:355:VAL:HG11	1.97	0.47
1:E:425:SER:HB2	1:E:729:THR:O	2.15	0.47
1:G:314:ASN:HB3	1:G:682:GLU:HG2	1.96	0.47
1:J:383:ASN:ND2	1:J:385:GLY:O	2.47	0.47
1:K:437:ASN:HB2	1:1:355:VAL:HG11	1.97	0.47
1:L:314:ASN:HB3	1:L:682:GLU:HG2	1.96	0.47
1:N:480:PRO:HB3	1:P:511:LEU:HD12	1.97	0.47
1:O:257:TYR:HB2	1:6:715:VAL:HG21	1.96	0.47
1:O:362:GLY:HA2	1:P:662:PHE:HZ	1.78	0.47
1:O:590:GLN:HA	1:g:497:ASN:HD22	1.80	0.47
1:R:425:SER:HB2	1:R:729:THR:O	2.15	0.47
1:X:425:SER:HB2	1:X:729:THR:O	2.15	0.47
1:4:314:ASN:HB3	1:4:682:GLU:HG2	1.96	0.47
1:5:314:ASN:HB3	1:5:682:GLU:HG2	1.96	0.47
1:e:425:SER:HB2	1:e:729:THR:O	2.15	0.47
1:h:619:TRP:CZ2	1:h:644:PRO:HG2	2.48	0.47
1:k:450:THR:HG23	1:l:502:ALA:HB2	1.97	0.47
1:m:415:TYR:OH	1:m:642:HIS:O	2.26	0.47
1:n:502:ALA:HB2	1:p:450:THR:HG23	1.97	0.47
1:o:383:ASN:ND2	1:o:385:GLY:O	2.47	0.47
1:o:415:TYR:OH	1:o:642:HIS:O	2.27	0.47
1:o:450:THR:HG23	1:p:502:ALA:HB2	1.96	0.47
1:p:425:SER:HB2	1:p:729:THR:O	2.15	0.47
1:q:511:LEU:HD12	1:s:480:PRO:HB3	1.97	0.47
1:t:511:LEU:HD12	1:v:480:PRO:HB3	1.97	0.47
1:7:287:ASN:O	1:7:618:ILE:N	2.44	0.47
1:A:590:GLN:HA	1:G:497:ASN:ND2	2.29	0.47
1:B:425:SER:HB2	1:B:729:THR:O	2.15	0.47
1:B:450:THR:HG23	1:J:502:ALA:HB2	1.97	0.47
1:C:480:PRO:HB3	1:2:511:LEU:HD12	1.97	0.47
1:D:590:GLN:HA	1:N:497:ASN:ND2	2.28	0.47
1:E:437:ASN:HB2	1:Q:355:VAL:HG11	1.97	0.47
1:K:502:ALA:HB2	1:8:450:THR:HG23	1.97	0.47
1:L:415:TYR:OH	1:L:642:HIS:O	2.27	0.47
1:M:511:LEU:HD12	1:2:480:PRO:HB3	1.97	0.47
1:N:450:THR:HG23	1:P:502:ALA:HB2	1.97	0.47
1:Q:425:SER:HB2	1:Q:729:THR:O	2.15	0.47
1:S:450:THR:HG23	1:U:502:ALA:HB2	1.95	0.47
1:V:619:TRP:CZ2	1:V:644:PRO:HG2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:383:ASN:ND2	1:Z:385:GLY:O	2.47	0.47
1:1:314:ASN:HB3	1:1:682:GLU:HG2	1.96	0.47
1:2:425:SER:HB2	1:2:729:THR:O	2.15	0.47
1:5:450:THR:HG23	1:b:502:ALA:HB2	1.97	0.47
1:6:690:GLU:OE1	1:h:296:ARG:NH2	2.47	0.47
1:a:383:ASN:ND2	1:a:385:GLY:O	2.47	0.47
1:c:425:SER:HB2	1:c:729:THR:O	2.15	0.47
1:d:437:ASN:HB2	1:e:355:VAL:HG13	1.97	0.47
1:f:425:SER:HB2	1:f:729:THR:O	2.15	0.47
1:g:425:SER:HB2	1:g:729:THR:O	2.15	0.47
1:j:383:ASN:ND2	1:j:385:GLY:O	2.47	0.47
1:k:437:ASN:HB2	1:l:355:VAL:HG13	1.97	0.47
1:l:383:ASN:ND2	1:l:385:GLY:O	2.47	0.47
1:n:383:ASN:ND2	1:n:385:GLY:O	2.47	0.47
1:n:415:TYR:OH	1:n:642:HIS:O	2.26	0.47
1:o:252:TYR:OH	1:o:374:ILE:O	2.22	0.47
1:o:314:ASN:HB3	1:o:682:GLU:HG2	1.96	0.47
1:p:287:ASN:O	1:p:618:ILE:N	2.44	0.47
1:q:425:SER:HB2	1:q:729:THR:O	2.15	0.47
1:q:590:GLN:HA	1:r:497:ASN:ND2	2.29	0.47
1:t:314:ASN:HB3	1:t:682:GLU:HG2	1.96	0.47
1:t:355:VAL:HG13	1:v:437:ASN:HB2	1.96	0.47
1:u:437:ASN:HB2	1:v:355:VAL:HG11	1.97	0.47
1:w:497:ASN:ND2	1:x:590:GLN:HA	2.29	0.47
1:y:502:ALA:HB2	1:7:450:THR:HG23	1.97	0.47
1:8:415:TYR:OH	1:8:642:HIS:O	2.26	0.47
1:A:314:ASN:HB3	1:A:682:GLU:HG2	1.96	0.47
1:A:355:VAL:HG13	1:I:437:ASN:HB2	1.97	0.47
1:A:425:SER:HB2	1:A:729:THR:O	2.15	0.47
1:A:450:THR:HG23	1:G:502:ALA:HB2	1.97	0.47
1:A:511:LEU:HD12	1:I:480:PRO:HB3	1.97	0.47
1:B:287:ASN:O	1:B:618:ILE:N	2.44	0.47
1:B:480:PRO:HB3	1:J:511:LEU:HD12	1.96	0.47
1:C:355:VAL:HG11	1:M:437:ASN:HB2	1.96	0.47
1:C:425:SER:HB2	1:C:729:THR:O	2.15	0.47
1:C:502:ALA:HB2	1:M:450:THR:HG23	1.97	0.47
1:D:383:ASN:ND2	1:D:385:GLY:O	2.47	0.47
1:D:450:THR:HG23	1:N:502:ALA:HB2	1.97	0.47
1:E:355:VAL:HG13	1:F:437:ASN:HB2	1.97	0.47
1:E:480:PRO:HB3	1:Q:511:LEU:HD12	1.97	0.47
1:F:511:LEU:HD12	1:Q:480:PRO:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:383:ASN:ND2	1:G:385:GLY:O	2.47	0.47
1:G:450:THR:HG23	1:I:502:ALA:HB2	1.97	0.47
1:G:619:TRP:CZ2	1:G:644:PRO:HG2	2.48	0.47
1:H:450:THR:HG23	1:W:502:ALA:HB2	1.97	0.47
1:J:437:ASN:HB2	1:L:355:VAL:HG13	1.97	0.47
1:K:480:PRO:HB3	1:1:511:LEU:HD12	1.97	0.47
1:L:362:GLY:HA2	1:2:662:PHE:HZ	1.78	0.47
1:M:355:VAL:HG13	1:2:437:ASN:HB2	1.97	0.47
1:N:314:ASN:HB3	1:N:682:GLU:HG2	1.96	0.47
1:O:314:ASN:HB3	1:O:682:GLU:HG2	1.96	0.47
1:O:394:PHE:CE1	1:6:715:VAL:HG12	2.50	0.47
1:P:425:SER:HB2	1:P:729:THR:O	2.15	0.47
1:Q:383:ASN:ND2	1:Q:385:GLY:O	2.47	0.47
1:R:383:ASN:ND2	1:R:385:GLY:O	2.47	0.47
1:R:502:ALA:HB2	1:U:450:THR:HG23	1.97	0.47
1:S:425:SER:HB2	1:S:729:THR:O	2.15	0.47
1:S:437:ASN:HB2	1:U:355:VAL:HG13	1.96	0.47
1:T:425:SER:HB2	1:T:729:THR:O	2.15	0.47
1:U:332:LYS:NZ	1:4:657:ASP:OD2	2.30	0.47
1:U:415:TYR:OH	1:U:642:HIS:O	2.27	0.47
1:V:437:ASN:HB2	1:4:355:VAL:HG11	1.97	0.47
1:V:502:ALA:HB2	1:X:450:THR:HG23	1.97	0.47
1:W:383:ASN:ND2	1:W:385:GLY:O	2.47	0.47
1:1:350:TYR:OH	1:1:643:PRO:O	2.31	0.47
1:1:383:ASN:ND2	1:1:385:GLY:O	2.47	0.47
1:1:425:SER:HB2	1:1:729:THR:O	2.15	0.47
1:2:332:LYS:NZ	1:i:657:ASP:OD2	2.29	0.47
1:4:619:TRP:CZ2	1:4:644:PRO:HG2	2.49	0.47
1:5:355:VAL:HG13	1:a:437:ASN:HB2	1.97	0.47
1:5:497:ASN:ND2	1:a:590:GLN:HA	2.29	0.47
1:5:502:ALA:HB2	1:a:450:THR:HG23	1.97	0.47
1:b:425:SER:HB2	1:b:729:THR:O	2.15	0.47
1:c:355:VAL:HG11	1:e:437:ASN:HB2	1.97	0.47
1:c:383:ASN:ND2	1:c:385:GLY:O	2.47	0.47
1:c:511:LEU:HD12	1:e:480:PRO:HB3	1.97	0.47
1:d:415:TYR:OH	1:d:642:HIS:O	2.26	0.47
1:e:619:TRP:CZ2	1:e:644:PRO:HG2	2.48	0.47
1:f:383:ASN:ND2	1:f:385:GLY:O	2.47	0.47
1:h:425:SER:HB2	1:h:729:THR:O	2.15	0.47
1:i:383:ASN:ND2	1:i:385:GLY:O	2.47	0.47
1:i:480:PRO:HB3	1:j:511:LEU:HD12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:511:LEU:HD12	1:p:480:PRO:HB3	1.96	0.47
1:q:314:ASN:HB3	1:q:682:GLU:HG2	1.96	0.47
1:q:355:VAL:HG13	1:s:437:ASN:HB2	1.97	0.47
1:r:314:ASN:HB3	1:r:682:GLU:HG2	1.96	0.47
1:r:383:ASN:ND2	1:r:385:GLY:O	2.47	0.47
1:s:415:TYR:OH	1:s:642:HIS:O	2.26	0.47
1:t:425:SER:HB2	1:t:729:THR:O	2.15	0.47
1:t:450:THR:HG23	1:u:502:ALA:HB2	1.97	0.47
1:u:425:SER:HB2	1:u:729:THR:O	2.15	0.47
1:u:480:PRO:HB3	1:v:511:LEU:HD12	1.97	0.47
1:v:383:ASN:ND2	1:v:385:GLY:O	2.47	0.47
1:v:425:SER:HB2	1:v:729:THR:O	2.15	0.47
1:w:383:ASN:ND2	1:w:385:GLY:O	2.47	0.47
1:x:288:ARG:HH21	1:x:615:GLN:HB3	1.80	0.47
1:y:425:SER:HB2	1:y:729:THR:O	2.15	0.47
1:y:480:PRO:HB3	1:z:511:LEU:HD12	1.97	0.47
1:z:314:ASN:HB3	1:z:682:GLU:HG2	1.96	0.47
1:z:350:TYR:OH	1:z:643:PRO:O	2.31	0.47
1:8:425:SER:HB2	1:8:729:THR:O	2.15	0.47
1:A:437:ASN:HB2	1:G:355:VAL:HG11	1.96	0.47
1:B:527:HIS:CE1	1:B:564:GLU:HB3	2.50	0.47
1:C:350:TYR:OH	1:C:643:PRO:O	2.31	0.47
1:D:437:ASN:HB2	1:N:355:VAL:HG13	1.97	0.47
1:E:383:ASN:ND2	1:E:385:GLY:O	2.47	0.47
1:E:619:TRP:CZ2	1:E:644:PRO:HG2	2.48	0.47
1:H:288:ARG:HH21	1:H:615:GLN:HB3	1.80	0.47
1:J:415:TYR:OH	1:J:642:HIS:O	2.26	0.47
1:K:450:THR:HG23	1:1:502:ALA:HB2	1.97	0.47
1:L:288:ARG:HH21	1:L:615:GLN:HB3	1.80	0.47
1:M:288:ARG:HH21	1:M:615:GLN:HB3	1.80	0.47
1:M:425:SER:HB2	1:M:729:THR:O	2.15	0.47
1:O:383:ASN:ND2	1:O:385:GLY:O	2.47	0.47
1:O:527:HIS:CE1	1:O:564:GLU:HB3	2.50	0.47
1:R:497:ASN:ND2	1:U:590:GLN:HA	2.29	0.47
1:V:425:SER:HB2	1:V:729:THR:O	2.15	0.47
1:Z:511:LEU:HD12	1:w:480:PRO:HB3	1.97	0.47
1:2:383:ASN:ND2	1:2:385:GLY:O	2.47	0.47
1:3:288:ARG:HH21	1:3:615:GLN:HB3	1.80	0.47
1:4:383:ASN:ND2	1:4:385:GLY:O	2.47	0.47
1:5:425:SER:HB2	1:5:729:THR:O	2.15	0.47
1:6:314:ASN:HB3	1:6:682:GLU:HG2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:383:ASN:ND2	1:e:385:GLY:O	2.47	0.47
1:j:527:HIS:CE1	1:j:564:GLU:HB3	2.50	0.47
1:k:288:ARG:HH21	1:k:615:GLN:HB3	1.80	0.47
1:k:425:SER:HB2	1:k:729:THR:O	2.15	0.47
1:k:502:ALA:HB2	1:m:450:THR:HG23	1.97	0.47
1:o:288:ARG:HH21	1:o:615:GLN:HB3	1.80	0.47
1:o:362:GLY:HA2	1:v:662:PHE:HZ	1.78	0.47
1:q:502:ALA:HB2	1:s:450:THR:HG23	1.97	0.47
1:r:425:SER:HB2	1:r:729:THR:O	2.15	0.47
1:r:450:THR:HG23	1:s:502:ALA:HB2	1.97	0.47
1:s:425:SER:HB2	1:s:729:THR:O	2.15	0.47
1:s:527:HIS:CE1	1:s:564:GLU:HB3	2.50	0.47
1:t:288:ARG:HH21	1:t:615:GLN:HB3	1.80	0.47
1:t:437:ASN:HB2	1:u:355:VAL:HG11	1.96	0.47
1:y:450:THR:HG23	1:z:502:ALA:HB2	1.97	0.47
1:y:527:HIS:CE1	1:y:564:GLU:HB3	2.50	0.47
1:z:383:ASN:ND2	1:z:385:GLY:O	2.47	0.47
1:z:425:SER:HB2	1:z:729:THR:O	2.15	0.47
1:7:415:TYR:OH	1:7:642:HIS:O	2.26	0.47
1:7:425:SER:HB2	1:7:729:THR:O	2.15	0.47
1:C:383:ASN:ND2	1:C:385:GLY:O	2.47	0.47
1:H:425:SER:HB2	1:H:729:THR:O	2.15	0.47
1:I:527:HIS:CE1	1:I:564:GLU:HB3	2.50	0.47
1:K:425:SER:HB2	1:K:729:THR:O	2.15	0.47
1:K:527:HIS:CE1	1:K:564:GLU:HB3	2.50	0.47
1:N:425:SER:HB2	1:N:729:THR:O	2.15	0.47
1:O:262:ASN:ND2	1:O:273:ALA:HA	2.24	0.47
1:Q:314:ASN:HB3	1:Q:682:GLU:HG2	1.96	0.47
1:S:527:HIS:CE1	1:S:564:GLU:HB3	2.50	0.47
1:T:429:SER:C	1:6:382:LEU:CD1	2.88	0.47
1:T:527:HIS:CE1	1:T:564:GLU:HB3	2.50	0.47
1:U:314:ASN:HB3	1:U:682:GLU:HG2	1.96	0.47
1:V:450:THR:HG23	1:4:502:ALA:HB2	1.96	0.47
1:W:425:SER:HB2	1:W:729:THR:O	2.15	0.47
1:Z:527:HIS:CE1	1:Z:564:GLU:HB3	2.50	0.47
1:4:527:HIS:CE1	1:4:564:GLU:HB3	2.50	0.47
1:i:252:TYR:OH	1:i:374:ILE:O	2.21	0.47
1:l:425:SER:HB2	1:l:729:THR:O	2.15	0.47
1:l:450:THR:HG23	1:m:502:ALA:HB2	1.97	0.47
1:n:288:ARG:HH21	1:n:615:GLN:HB3	1.80	0.47
1:n:437:ASN:HB2	1:o:355:VAL:HG13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:527:HIS:CE1	1:p:564:GLU:HB3	2.50	0.47
1:u:350:TYR:OH	1:u:643:PRO:O	2.31	0.47
1:u:383:ASN:ND2	1:u:385:GLY:O	2.47	0.47
1:y:288:ARG:HH21	1:y:615:GLN:HB3	1.80	0.47
1:8:314:ASN:HB3	1:8:682:GLU:HG2	1.96	0.47
1:A:383:ASN:ND2	1:A:385:GLY:O	2.47	0.47
1:A:527:HIS:CE1	1:A:564:GLU:HB3	2.50	0.47
1:D:314:ASN:HB3	1:D:682:GLU:HG2	1.96	0.47
1:D:437:ASN:HB2	1:N:355:VAL:HG11	1.96	0.47
1:D:502:ALA:HB2	1:P:450:THR:HG23	1.97	0.47
1:E:511:LEU:HD12	1:F:480:PRO:HB3	1.97	0.47
1:G:425:SER:HB2	1:G:729:THR:O	2.15	0.47
1:I:288:ARG:HH21	1:I:615:GLN:HB3	1.80	0.47
1:I:425:SER:HB2	1:I:729:THR:O	2.15	0.47
1:J:288:ARG:HH21	1:J:615:GLN:HB3	1.80	0.47
1:K:288:ARG:HH21	1:K:615:GLN:HB3	1.80	0.47
1:L:252:TYR:OH	1:L:374:ILE:O	2.22	0.47
1:R:288:ARG:HH21	1:R:615:GLN:HB3	1.80	0.47
1:U:288:ARG:HH21	1:U:615:GLN:HB3	1.80	0.47
1:U:425:SER:HB2	1:U:729:THR:O	2.15	0.47
1:V:590:GLN:HA	1:4:497:ASN:ND2	2.30	0.47
1:X:383:ASN:ND2	1:X:385:GLY:O	2.47	0.47
1:Y:314:ASN:HB3	1:Y:682:GLU:HG2	1.96	0.47
1:Z:287:ASN:O	1:Z:618:ILE:N	2.44	0.47
1:Z:425:SER:HB2	1:Z:729:THR:O	2.15	0.47
1:2:527:HIS:CE1	1:2:564:GLU:HB3	2.50	0.47
1:3:480:PRO:HB3	1:i:511:LEU:HD12	1.97	0.47
1:6:288:ARG:HH21	1:6:615:GLN:HB3	1.80	0.47
1:6:425:SER:HB2	1:6:729:THR:O	2.15	0.47
1:6:713:PHE:O	1:h:695:TRP:HD1	1.98	0.47
1:c:480:PRO:HB3	1:d:511:LEU:HD12	1.97	0.47
1:d:480:PRO:HB3	1:e:511:LEU:HD12	1.97	0.47
1:g:383:ASN:ND2	1:g:385:GLY:O	2.47	0.47
1:n:332:LYS:NZ	1:z:657:ASP:OD2	2.29	0.47
1:n:450:THR:HG23	1:o:502:ALA:HB2	1.96	0.47
1:q:383:ASN:ND2	1:q:385:GLY:O	2.47	0.47
1:q:527:HIS:CE1	1:q:564:GLU:HB3	2.50	0.47
1:s:288:ARG:HH21	1:s:615:GLN:HB3	1.80	0.47
1:u:314:ASN:HB3	1:u:682:GLU:HG2	1.96	0.47
1:u:450:THR:HG23	1:v:502:ALA:HB2	1.97	0.47
1:v:262:ASN:ND2	1:v:273:ALA:HA	2.24	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:527:HIS:CE1	1:v:564:GLU:HB3	2.50	0.47
1:w:287:ASN:O	1:w:618:ILE:N	2.44	0.47
1:z:450:THR:HG23	1:7:502:ALA:HB2	1.97	0.47
1:7:314:ASN:HB3	1:7:682:GLU:HG2	1.96	0.47
1:A:437:ASN:HB2	1:G:355:VAL:HG13	1.96	0.46
1:C:314:ASN:HB3	1:C:682:GLU:HG2	1.96	0.46
1:C:437:ASN:HB2	1:2:355:VAL:HG13	1.97	0.46
1:C:450:THR:HG23	1:2:502:ALA:HB2	1.97	0.46
1:C:511:LEU:HD12	1:M:480:PRO:HB3	1.97	0.46
1:F:415:TYR:OH	1:F:642:HIS:O	2.27	0.46
1:G:288:ARG:HH21	1:G:615:GLN:HB3	1.80	0.46
1:G:527:HIS:CE1	1:G:564:GLU:HB3	2.50	0.46
1:H:502:ALA:HB2	1:Y:450:THR:HG23	1.97	0.46
1:I:415:TYR:OH	1:I:642:HIS:O	2.26	0.46
1:J:425:SER:HB2	1:J:729:THR:O	2.15	0.46
1:J:450:THR:HG23	1:L:502:ALA:HB2	1.96	0.46
1:L:527:HIS:CE1	1:L:564:GLU:HB3	2.50	0.46
1:V:355:VAL:HG11	1:X:437:ASN:HB2	1.97	0.46
1:V:437:ASN:HB2	1:4:355:VAL:HG13	1.97	0.46
1:X:511:LEU:HD12	1:4:480:PRO:HB3	1.97	0.46
1:1:590:GLN:HA	1:8:497:ASN:ND2	2.29	0.46
1:a:314:ASN:HB3	1:a:682:GLU:HG2	1.96	0.46
1:a:502:ALA:HB2	1:b:450:THR:HG23	1.97	0.46
1:c:314:ASN:HB3	1:c:682:GLU:HG2	1.96	0.46
1:f:288:ARG:HH21	1:f:615:GLN:HB3	1.80	0.46
1:i:527:HIS:CE1	1:i:564:GLU:HB3	2.50	0.46
1:j:425:SER:HB2	1:j:729:THR:O	2.15	0.46
1:n:425:SER:HB2	1:n:729:THR:O	2.15	0.46
1:r:527:HIS:CE1	1:r:564:GLU:HB3	2.50	0.46
1:u:437:ASN:HB2	1:v:355:VAL:HG13	1.97	0.46
1:w:355:VAL:HG13	1:x:437:ASN:HB2	1.97	0.46
1:w:511:LEU:HD12	1:x:480:PRO:HB3	1.97	0.46
1:8:519:ASN:HD22	1:8:519:ASN:HA	1.51	0.46
1:B:314:ASN:HB3	1:B:682:GLU:HG2	1.96	0.46
1:C:527:HIS:CE1	1:C:564:GLU:HB3	2.50	0.46
1:D:480:PRO:HB3	1:N:511:LEU:HD12	1.97	0.46
1:F:383:ASN:ND2	1:F:385:GLY:O	2.47	0.46
1:H:383:ASN:ND2	1:H:385:GLY:O	2.47	0.46
1:H:437:ASN:HB2	1:W:355:VAL:HG11	1.96	0.46
1:O:480:PRO:HB3	1:g:511:LEU:HD12	1.97	0.46
1:S:314:ASN:HB3	1:S:682:GLU:HG2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:288:ARG:HH21	1:W:615:GLN:HB3	1.80	0.46
1:W:450:THR:HG23	1:Y:502:ALA:HB2	1.97	0.46
1:X:288:ARG:HH21	1:X:615:GLN:HB3	1.80	0.46
1:Z:450:THR:HG23	1:x:502:ALA:HB2	1.97	0.46
1:1:450:THR:HG23	1:8:502:ALA:HB2	1.97	0.46
1:3:437:ASN:HB2	1:i:355:VAL:HG13	1.97	0.46
1:3:502:ALA:HB2	1:j:450:THR:HG23	1.97	0.46
1:5:355:VAL:HG11	1:a:437:ASN:HB2	1.96	0.46
1:5:511:LEU:HD12	1:a:480:PRO:HB3	1.97	0.46
1:a:527:HIS:CE1	1:a:564:GLU:HB3	2.50	0.46
1:f:350:TYR:OH	1:f:643:PRO:O	2.31	0.46
1:j:287:ASN:O	1:j:618:ILE:N	2.44	0.46
1:m:314:ASN:HB3	1:m:682:GLU:HG2	1.96	0.46
1:o:527:HIS:CE1	1:o:564:GLU:HB3	2.50	0.46
1:q:480:PRO:HB3	1:r:511:LEU:HD12	1.97	0.46
1:r:288:ARG:HH21	1:r:615:GLN:HB3	1.80	0.46
1:r:452:ASN:HB3	1:r:458:GLN:HB3	1.98	0.46
1:t:480:PRO:HB3	1:u:511:LEU:HD12	1.97	0.46
1:w:252:TYR:OH	1:w:374:ILE:O	2.21	0.46
1:z:437:ASN:HB2	1:7:355:VAL:HG13	1.97	0.46
1:A:502:ALA:HB2	1:I:450:THR:HG23	1.97	0.46
1:A:519:ASN:HD22	1:A:519:ASN:HA	1.51	0.46
1:D:527:HIS:CE1	1:D:564:GLU:HB3	2.50	0.46
1:F:355:VAL:HG13	1:Q:437:ASN:HB2	1.97	0.46
1:G:437:ASN:HB2	1:I:355:VAL:HG13	1.97	0.46
1:G:452:ASN:HB3	1:G:458:GLN:HB3	1.98	0.46
1:P:527:HIS:CE1	1:P:564:GLU:HB3	2.50	0.46
1:R:355:VAL:HG11	1:U:437:ASN:HB2	1.97	0.46
1:R:437:ASN:HB2	1:S:355:VAL:HG13	1.96	0.46
1:S:373:MET:HE1	1:6:659:PRO:CG	2.41	0.46
1:T:314:ASN:HB3	1:T:682:GLU:HG2	1.96	0.46
1:V:355:VAL:HG13	1:X:437:ASN:HB2	1.97	0.46
1:V:383:ASN:ND2	1:V:385:GLY:O	2.47	0.46
1:1:437:ASN:HB2	1:8:355:VAL:HG13	1.97	0.46
1:3:383:ASN:ND2	1:3:385:GLY:O	2.47	0.46
1:3:450:THR:HG23	1:i:502:ALA:HB2	1.97	0.46
1:6:476:ARG:HD2	1:f:509:TRP:HZ2	1.79	0.46
1:c:437:ASN:HB2	1:d:355:VAL:HG13	1.97	0.46
1:d:383:ASN:ND2	1:d:385:GLY:O	2.47	0.46
1:d:527:HIS:CE1	1:d:564:GLU:HB3	2.50	0.46
1:e:288:ARG:HH21	1:e:615:GLN:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:527:HIS:CE1	1:e:564:GLU:HB3	2.50	0.46
1:f:452:ASN:HB3	1:f:458:GLN:HB3	1.98	0.46
1:g:288:ARG:HH21	1:g:615:GLN:HB3	1.80	0.46
1:i:287:ASN:O	1:i:618:ILE:N	2.44	0.46
1:k:383:ASN:ND2	1:k:385:GLY:O	2.47	0.46
1:l:480:PRO:HB3	1:m:511:LEU:HD12	1.97	0.46
1:p:314:ASN:HB3	1:p:682:GLU:HG2	1.96	0.46
1:q:437:ASN:HB2	1:r:355:VAL:HG11	1.96	0.46
1:t:287:ASN:O	1:t:618:ILE:N	2.44	0.46
1:u:527:HIS:CE1	1:u:564:GLU:HB3	2.50	0.46
1:w:527:HIS:CE1	1:w:564:GLU:HB3	2.50	0.46
1:x:383:ASN:ND2	1:x:385:GLY:O	2.47	0.46
1:z:480:PRO:HB3	1:7:511:LEU:HD12	1.97	0.46
1:z:590:GLN:HA	1:7:497:ASN:ND2	2.29	0.46
1:7:527:HIS:CE1	1:7:564:GLU:HB3	2.50	0.46
1:E:288:ARG:HH21	1:E:615:GLN:HB3	1.80	0.46
1:E:527:HIS:CE1	1:E:564:GLU:HB3	2.50	0.46
1:F:262:ASN:ND2	1:F:273:ALA:HA	2.24	0.46
1:F:502:ALA:HB2	1:Q:450:THR:HG23	1.97	0.46
1:F:527:HIS:CE1	1:F:564:GLU:HB3	2.50	0.46
1:H:314:ASN:HB3	1:H:682:GLU:HG2	1.96	0.46
1:H:355:VAL:HG13	1:Y:437:ASN:HB2	1.97	0.46
1:P:288:ARG:HH21	1:P:615:GLN:HB3	1.80	0.46
1:R:452:ASN:HB3	1:R:458:GLN:HB3	1.98	0.46
1:W:480:PRO:HB3	1:Y:511:LEU:HD12	1.97	0.46
1:X:355:VAL:HG13	1:4:437:ASN:HB2	1.97	0.46
1:X:497:ASN:ND2	1:4:590:GLN:HA	2.30	0.46
1:Y:527:HIS:CE1	1:Y:564:GLU:HB3	2.50	0.46
1:1:480:PRO:HB3	1:8:511:LEU:HD12	1.97	0.46
1:2:262:ASN:ND2	1:2:273:ALA:HA	2.24	0.46
1:3:452:ASN:HB3	1:3:458:GLN:HB3	1.98	0.46
1:a:425:SER:HB2	1:a:729:THR:O	2.15	0.46
1:a:511:LEU:HD12	1:b:480:PRO:HB3	1.97	0.46
1:b:288:ARG:HH21	1:b:615:GLN:HB3	1.80	0.46
1:b:527:HIS:CE1	1:b:564:GLU:HB3	2.50	0.46
1:c:450:THR:HG23	1:d:502:ALA:HB2	1.97	0.46
1:g:314:ASN:HB3	1:g:682:GLU:HG2	1.96	0.46
1:g:519:ASN:HD22	1:g:519:ASN:HA	1.51	0.46
1:h:383:ASN:ND2	1:h:385:GLY:O	2.47	0.46
1:i:450:THR:HG23	1:j:502:ALA:HB2	1.97	0.46
1:j:288:ARG:HH21	1:j:615:GLN:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:355:VAL:HG13	1:m:437:ASN:HB2	1.97	0.46
1:m:527:HIS:CE1	1:m:564:GLU:HB3	2.50	0.46
1:w:502:ALA:HB2	1:x:450:THR:HG23	1.97	0.46
1:8:527:HIS:CE1	1:8:564:GLU:HB3	2.50	0.46
1:C:355:VAL:HG13	1:M:437:ASN:HB2	1.97	0.46
1:D:288:ARG:HH21	1:D:615:GLN:HB3	1.80	0.46
1:D:425:SER:HB2	1:D:729:THR:O	2.15	0.46
1:D:511:LEU:HD12	1:P:480:PRO:HB3	1.97	0.46
1:F:288:ARG:HH21	1:F:615:GLN:HB3	1.80	0.46
1:G:332:LYS:NZ	1:W:657:ASP:OD2	2.29	0.46
1:J:590:GLN:HA	1:L:497:ASN:ND2	2.30	0.46
1:K:511:LEU:HD12	1:8:480:PRO:HB3	1.97	0.46
1:L:287:ASN:O	1:L:618:ILE:N	2.44	0.46
1:M:452:ASN:HB3	1:M:458:GLN:HB3	1.98	0.46
1:M:527:HIS:CE1	1:M:564:GLU:HB3	2.50	0.46
1:N:527:HIS:CE1	1:N:564:GLU:HB3	2.50	0.46
1:Q:527:HIS:CE1	1:Q:564:GLU:HB3	2.50	0.46
1:R:350:TYR:OH	1:R:643:PRO:O	2.31	0.46
1:R:480:PRO:HB3	1:S:511:LEU:HD12	1.98	0.46
1:V:288:ARG:HH21	1:V:615:GLN:HB3	1.80	0.46
1:X:314:ASN:HB3	1:X:682:GLU:HG2	1.96	0.46
1:Z:288:ARG:HH21	1:Z:615:GLN:HB3	1.80	0.46
1:Z:502:ALA:HB2	1:w:450:THR:HG23	1.97	0.46
1:1:437:ASN:HB2	1:8:355:VAL:HG11	1.96	0.46
1:c:288:ARG:HH21	1:c:615:GLN:HB3	1.80	0.46
1:c:527:HIS:CE1	1:c:564:GLU:HB3	2.50	0.46
1:g:527:HIS:CE1	1:g:564:GLU:HB3	2.50	0.46
1:h:288:ARG:HH21	1:h:615:GLN:HB3	1.80	0.46
1:k:314:ASN:HB3	1:k:682:GLU:HG2	1.96	0.46
1:k:437:ASN:HB2	1:l:355:VAL:HG11	1.97	0.46
1:l:288:ARG:HH21	1:l:615:GLN:HB3	1.80	0.46
1:n:590:GLN:HA	1:o:497:ASN:ND2	2.30	0.46
1:r:437:ASN:HB2	1:s:355:VAL:HG13	1.97	0.46
1:r:480:PRO:HB3	1:s:511:LEU:HD12	1.97	0.46
1:s:452:ASN:HB3	1:s:458:GLN:HB3	1.98	0.46
1:u:452:ASN:HB3	1:u:458:GLN:HB3	1.98	0.46
1:y:511:LEU:HD12	1:7:480:PRO:HB3	1.97	0.46
1:C:452:ASN:HB3	1:C:458:GLN:HB3	1.98	0.46
1:D:355:VAL:HG13	1:P:437:ASN:HB2	1.96	0.46
1:E:244:THR:HA	1:E:679:VAL:O	2.16	0.46
1:E:355:VAL:HG11	1:F:437:ASN:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:480:PRO:HB3	1:I:511:LEU:HD12	1.97	0.46
1:I:452:ASN:HB3	1:I:458:GLN:HB3	1.98	0.46
1:J:527:HIS:CE1	1:J:564:GLU:HB3	2.50	0.46
1:Q:244:THR:HA	1:Q:679:VAL:O	2.16	0.46
1:R:437:ASN:HB2	1:S:355:VAL:HG11	1.97	0.46
1:T:355:VAL:HG11	1:f:437:ASN:HB2	1.97	0.46
1:V:527:HIS:CE1	1:V:564:GLU:HB3	2.50	0.46
1:X:519:ASN:HD22	1:X:519:ASN:HA	1.51	0.46
1:X:527:HIS:CE1	1:X:564:GLU:HB3	2.50	0.46
1:2:287:ASN:O	1:2:618:ILE:N	2.44	0.46
1:6:462:LYS:HB3	1:f:552:ASN:HA	1.97	0.46
1:a:288:ARG:HH21	1:a:615:GLN:HB3	1.80	0.46
1:c:244:THR:HA	1:c:679:VAL:O	2.16	0.46
1:c:452:ASN:HB3	1:c:458:GLN:HB3	1.98	0.46
1:d:288:ARG:HH21	1:d:615:GLN:HB3	1.80	0.46
1:i:314:ASN:HB3	1:i:682:GLU:HG2	1.96	0.46
1:i:483:SER:OG	1:i:577:TYR:HB2	2.16	0.46
1:n:527:HIS:CE1	1:n:564:GLU:HB3	2.50	0.46
1:t:437:ASN:HB2	1:u:355:VAL:HG13	1.97	0.46
1:t:452:ASN:HB3	1:t:458:GLN:HB3	1.98	0.46
1:t:527:HIS:CE1	1:t:564:GLU:HB3	2.50	0.46
1:u:483:SER:OG	1:u:577:TYR:HB2	2.16	0.46
1:v:288:ARG:HH21	1:v:615:GLN:HB3	1.80	0.46
1:x:452:ASN:HB3	1:x:458:GLN:HB3	1.98	0.46
1:y:437:ASN:HB2	1:z:355:VAL:HG13	1.97	0.46
1:z:437:ASN:HB2	1:7:355:VAL:HG11	1.97	0.46
1:A:452:ASN:HB3	1:A:458:GLN:HB3	1.98	0.46
1:A:480:PRO:HB3	1:G:511:LEU:HD12	1.97	0.46
1:C:483:SER:OG	1:C:577:TYR:HB2	2.16	0.46
1:H:244:THR:HA	1:H:679:VAL:O	2.16	0.46
1:J:244:THR:HA	1:J:679:VAL:O	2.16	0.46
1:K:355:VAL:HG13	1:8:437:ASN:HB2	1.97	0.46
1:M:287:ASN:O	1:M:618:ILE:N	2.44	0.46
1:O:391:ARG:NH2	1:h:565:GLU:HG3	2.31	0.46
1:Q:288:ARG:HH21	1:Q:615:GLN:HB3	1.80	0.46
1:Q:452:ASN:HB3	1:Q:458:GLN:HB3	1.98	0.46
1:R:355:VAL:HG13	1:U:437:ASN:HB2	1.97	0.46
1:S:480:PRO:HB3	1:U:511:LEU:HD12	1.97	0.46
1:W:437:ASN:HB2	1:Y:355:VAL:HG13	1.97	0.46
1:Z:483:SER:OG	1:Z:577:TYR:HB2	2.16	0.46
1:2:483:SER:OG	1:2:577:TYR:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:527:HIS:CE1	1:5:564:GLU:HB3	2.50	0.46
1:e:244:THR:HA	1:e:679:VAL:O	2.16	0.46
1:h:483:SER:OG	1:h:577:TYR:HB2	2.16	0.46
1:j:483:SER:OG	1:j:577:TYR:HB2	2.16	0.46
1:k:511:LEU:HD12	1:m:480:PRO:HB3	1.97	0.46
1:n:244:THR:HA	1:n:679:VAL:O	2.16	0.46
1:n:355:VAL:HG11	1:p:437:ASN:HB2	1.97	0.46
1:o:287:ASN:O	1:o:618:ILE:N	2.44	0.46
1:q:437:ASN:HB2	1:r:355:VAL:HG13	1.97	0.46
1:q:452:ASN:HB3	1:q:458:GLN:HB3	1.98	0.46
1:v:287:ASN:O	1:v:618:ILE:N	2.44	0.46
1:v:483:SER:OG	1:v:577:TYR:HB2	2.16	0.46
1:w:483:SER:OG	1:w:577:TYR:HB2	2.16	0.46
1:x:231:ASP:O	1:x:242:THR:OG1	2.22	0.46
1:7:519:ASN:HD22	1:7:519:ASN:HA	1.51	0.46
1:B:437:ASN:HB2	1:J:355:VAL:HG11	1.97	0.46
1:D:244:THR:HA	1:D:679:VAL:O	2.16	0.46
1:G:244:THR:HA	1:G:679:VAL:O	2.16	0.46
1:H:511:LEU:HD12	1:Y:480:PRO:HB3	1.97	0.46
1:J:437:ASN:HB2	1:L:355:VAL:HG11	1.97	0.46
1:J:483:SER:OG	1:J:577:TYR:HB2	2.16	0.46
1:K:437:ASN:HB2	1:1:355:VAL:HG13	1.97	0.46
1:M:244:THR:HA	1:M:679:VAL:O	2.16	0.46
1:M:483:SER:OG	1:M:577:TYR:HB2	2.16	0.46
1:M:502:ALA:HB2	1:2:450:THR:HG23	1.97	0.46
1:N:288:ARG:HH21	1:N:615:GLN:HB3	1.80	0.46
1:N:437:ASN:HB2	1:P:355:VAL:HG13	1.97	0.46
1:N:483:SER:OG	1:N:577:TYR:HB2	2.16	0.46
1:O:288:ARG:HH21	1:O:615:GLN:HB3	1.80	0.46
1:U:527:HIS:CE1	1:U:564:GLU:HB3	2.50	0.46
1:V:483:SER:OG	1:V:577:TYR:HB2	2.16	0.46
1:X:355:VAL:HG11	1:4:437:ASN:HB2	1.98	0.46
1:X:483:SER:OG	1:X:577:TYR:HB2	2.16	0.46
1:Z:480:PRO:HB3	1:x:511:LEU:HD12	1.97	0.46
1:2:244:THR:HA	1:2:679:VAL:O	2.16	0.46
1:2:288:ARG:HH21	1:2:615:GLN:HB3	1.80	0.46
1:3:511:LEU:HD12	1:j:480:PRO:HB3	1.97	0.46
1:4:288:ARG:HH21	1:4:615:GLN:HB3	1.80	0.46
1:5:437:ASN:HB2	1:b:355:VAL:HG13	1.97	0.46
1:5:437:ASN:HB2	1:b:355:VAL:HG11	1.97	0.46
1:5:483:SER:OG	1:5:577:TYR:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:477:ASN:ND2	1:f:357:GLY:O	2.48	0.46
1:a:355:VAL:HG11	1:b:437:ASN:HB2	1.96	0.46
1:h:527:HIS:CE1	1:h:564:GLU:HB3	2.50	0.46
1:k:244:THR:HA	1:k:679:VAL:O	2.16	0.46
1:k:480:PRO:HB3	1:l:511:LEU:HD12	1.97	0.46
1:n:437:ASN:HB2	1:o:355:VAL:HG11	1.97	0.46
1:o:452:ASN:HB3	1:o:458:GLN:HB3	1.98	0.46
1:t:244:THR:HA	1:t:679:VAL:O	2.16	0.46
1:v:244:THR:HA	1:v:679:VAL:O	2.16	0.46
1:w:314:ASN:HB3	1:w:682:GLU:HG2	1.96	0.46
1:w:425:SER:HB2	1:w:729:THR:O	2.15	0.46
1:x:425:SER:HB2	1:x:729:THR:O	2.15	0.46
1:y:355:VAL:HG13	1:7:437:ASN:HB2	1.97	0.46
1:y:452:ASN:HB3	1:y:458:GLN:HB3	1.98	0.46
1:z:244:THR:HA	1:z:679:VAL:O	2.16	0.46
1:7:244:THR:HA	1:7:679:VAL:O	2.16	0.46
1:F:355:VAL:HG11	1:Q:437:ASN:HB2	1.97	0.46
1:K:452:ASN:HB3	1:K:458:GLN:HB3	1.98	0.46
1:L:425:SER:HB2	1:L:729:THR:O	2.15	0.46
1:L:452:ASN:HB3	1:L:458:GLN:HB3	1.98	0.46
1:N:437:ASN:HB2	1:P:355:VAL:HG11	1.97	0.46
1:S:244:THR:HA	1:S:679:VAL:O	2.16	0.46
1:S:452:ASN:HB3	1:S:458:GLN:HB3	1.98	0.46
1:T:244:THR:HA	1:T:679:VAL:O	2.16	0.46
1:T:288:ARG:HH21	1:T:615:GLN:HB3	1.80	0.46
1:T:452:ASN:HB3	1:T:458:GLN:HB3	1.98	0.46
1:U:452:ASN:HB3	1:U:458:GLN:HB3	1.98	0.46
1:V:287:ASN:O	1:V:618:ILE:N	2.44	0.46
1:W:437:ASN:HB2	1:Y:355:VAL:HG11	1.96	0.46
1:Y:288:ARG:HH21	1:Y:615:GLN:HB3	1.80	0.46
1:1:244:THR:HA	1:1:679:VAL:O	2.16	0.46
1:3:425:SER:HB2	1:3:729:THR:O	2.15	0.46
1:3:437:ASN:HB2	1:i:355:VAL:HG11	1.97	0.46
1:5:288:ARG:HH21	1:5:615:GLN:HB3	1.80	0.46
1:6:451:ILE:HG22	1:f:500:GLU:OE1	2.16	0.46
1:6:527:HIS:CE1	1:6:564:GLU:HB3	2.50	0.46
1:a:244:THR:HA	1:a:679:VAL:O	2.16	0.46
1:g:483:SER:OG	1:g:577:TYR:HB2	2.16	0.46
1:h:657:ASP:OD2	1:l:332:LYS:NZ	2.35	0.46
1:l:437:ASN:HB2	1:m:355:VAL:HG13	1.97	0.46
1:m:288:ARG:HH21	1:m:615:GLN:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:483:SER:OG	1:n:577:TYR:HB2	2.16	0.46
1:n:657:ASP:OD2	1:s:332:LYS:NZ	2.29	0.46
1:o:425:SER:HB2	1:o:729:THR:O	2.15	0.46
1:q:519:ASN:HD22	1:q:519:ASN:HA	1.51	0.46
1:r:244:THR:HA	1:r:679:VAL:O	2.16	0.46
1:t:502:ALA:HB2	1:v:450:THR:HG23	1.97	0.46
1:w:288:ARG:HH21	1:w:615:GLN:HB3	1.80	0.46
1:w:355:VAL:HG11	1:x:437:ASN:HB2	1.97	0.46
1:x:252:TYR:OH	1:x:374:ILE:O	2.21	0.46
1:8:244:THR:HA	1:8:679:VAL:O	2.16	0.46
1:B:483:SER:OG	1:B:577:TYR:HB2	2.16	0.46
1:D:483:SER:OG	1:D:577:TYR:HB2	2.16	0.46
1:E:502:ALA:HB2	1:F:450:THR:HG23	1.97	0.46
1:F:483:SER:OG	1:F:577:TYR:HB2	2.16	0.46
1:H:480:PRO:HB3	1:W:511:LEU:HD12	1.97	0.46
1:J:480:PRO:HB3	1:L:511:LEU:HD12	1.98	0.46
1:O:350:TYR:OH	1:O:643:PRO:O	2.31	0.46
1:R:483:SER:OG	1:R:577:TYR:HB2	2.16	0.46
1:S:288:ARG:HH21	1:S:615:GLN:HB3	1.80	0.46
1:W:244:THR:HA	1:W:679:VAL:O	2.16	0.46
1:Z:437:ASN:HB2	1:x:355:VAL:HG13	1.97	0.46
1:3:527:HIS:CE1	1:3:564:GLU:HB3	2.50	0.46
1:6:452:ASN:HB3	1:6:458:GLN:HB3	1.98	0.46
1:6:483:SER:OG	1:6:577:TYR:HB2	2.16	0.46
1:a:355:VAL:HG13	1:b:437:ASN:HB2	1.97	0.46
1:c:437:ASN:HB2	1:d:355:VAL:HG11	1.97	0.46
1:d:437:ASN:HB2	1:e:355:VAL:HG11	1.97	0.46
1:d:450:THR:HG23	1:e:502:ALA:HB2	1.97	0.46
1:f:483:SER:OG	1:f:577:TYR:HB2	2.16	0.46
1:f:662:PHE:CZ	1:h:362:GLY:HA2	2.51	0.46
1:k:452:ASN:HB3	1:k:458:GLN:HB3	1.98	0.46
1:l:437:ASN:HB2	1:m:355:VAL:HG11	1.97	0.46
1:q:244:THR:HA	1:q:679:VAL:O	2.16	0.46
1:q:483:SER:OG	1:q:577:TYR:HB2	2.16	0.46
1:t:483:SER:OG	1:t:577:TYR:HB2	2.16	0.46
1:7:483:SER:OG	1:7:577:TYR:HB2	2.16	0.46
1:A:244:THR:HA	1:A:679:VAL:O	2.16	0.45
1:A:483:SER:OG	1:A:577:TYR:HB2	2.16	0.45
1:D:355:VAL:HG11	1:P:437:ASN:HB2	1.96	0.45
1:G:483:SER:OG	1:G:577:TYR:HB2	2.16	0.45
1:P:332:LYS:NZ	1:Q:657:ASP:OD2	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:527:HIS:CE1	1:R:564:GLU:HB3	2.50	0.45
1:S:483:SER:OG	1:S:577:TYR:HB2	2.16	0.45
1:S:519:ASN:O	1:S:520:PRO:C	2.60	0.45
1:S:519:ASN:HD22	1:S:519:ASN:HA	1.51	0.45
1:T:483:SER:OG	1:T:577:TYR:HB2	2.16	0.45
1:U:483:SER:OG	1:U:577:TYR:HB2	2.16	0.45
1:3:355:VAL:HG13	1:j:437:ASN:HB2	1.97	0.45
1:4:287:ASN:O	1:4:618:ILE:N	2.44	0.45
1:4:350:TYR:OH	1:4:643:PRO:O	2.31	0.45
1:a:483:SER:OG	1:a:577:TYR:HB2	2.16	0.45
1:d:483:SER:OG	1:d:577:TYR:HB2	2.16	0.45
1:f:527:HIS:CE1	1:f:564:GLU:HB3	2.50	0.45
1:g:484:TYR:O	1:g:524:MET:HE1	2.17	0.45
1:i:288:ARG:HH21	1:i:615:GLN:HB3	1.80	0.45
1:i:425:SER:HB2	1:i:729:THR:O	2.15	0.45
1:o:657:ASP:OD2	1:y:332:LYS:NZ	2.30	0.45
1:p:288:ARG:HH21	1:p:615:GLN:HB3	1.80	0.45
1:p:483:SER:OG	1:p:577:TYR:HB2	2.16	0.45
1:r:483:SER:OG	1:r:577:TYR:HB2	2.16	0.45
1:u:238:ARG:HD2	1:u:684:GLU:OE2	2.17	0.45
1:x:341:THR:HG22	1:x:406:ARG:HG3	1.99	0.45
1:x:527:HIS:CE1	1:x:564:GLU:HB3	2.50	0.45
1:8:483:SER:OG	1:8:577:TYR:HB2	2.16	0.45
1:A:288:ARG:HH21	1:A:615:GLN:HB3	1.80	0.45
1:B:497:ASN:ND2	1:L:590:GLN:HA	2.30	0.45
1:C:238:ARG:HD2	1:C:684:GLU:OE2	2.17	0.45
1:H:452:ASN:HB3	1:H:458:GLN:HB3	1.98	0.45
1:O:287:ASN:O	1:O:618:ILE:N	2.44	0.45
1:P:452:ASN:HB3	1:P:458:GLN:HB3	1.98	0.45
1:T:519:ASN:O	1:T:520:PRO:C	2.60	0.45
1:T:601:ILE:CG2	1:6:601:ILE:HB	2.46	0.45
1:W:527:HIS:CE1	1:W:564:GLU:HB3	2.50	0.45
1:X:484:TYR:O	1:X:524:MET:HE1	2.17	0.45
1:Y:244:THR:HA	1:Y:679:VAL:O	2.16	0.45
1:Y:519:ASN:O	1:Y:520:PRO:C	2.60	0.45
1:Z:355:VAL:HG13	1:w:437:ASN:HB2	1.97	0.45
1:1:452:ASN:HB3	1:1:458:GLN:HB3	1.98	0.45
1:1:483:SER:OG	1:1:577:TYR:HB2	2.16	0.45
1:3:483:SER:OG	1:3:577:TYR:HB2	2.16	0.45
1:5:244:THR:HA	1:5:679:VAL:O	2.16	0.45
1:i:484:TYR:O	1:i:524:MET:HE1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:244:THR:HA	1:l:679:VAL:O	2.16	0.45
1:m:244:THR:HA	1:m:679:VAL:O	2.16	0.45
1:m:519:ASN:O	1:m:520:PRO:C	2.60	0.45
1:n:480:PRO:HB3	1:o:511:LEU:HD12	1.98	0.45
1:o:484:TYR:O	1:o:524:MET:HE1	2.17	0.45
1:o:590:GLN:HA	1:p:497:ASN:ND2	2.30	0.45
1:t:484:TYR:O	1:t:524:MET:HE1	2.17	0.45
1:w:484:TYR:O	1:w:524:MET:HE1	2.17	0.45
1:x:483:SER:OG	1:x:577:TYR:HB2	2.16	0.45
1:z:483:SER:OG	1:z:577:TYR:HB2	2.16	0.45
1:B:238:ARG:HD2	1:B:684:GLU:OE2	2.17	0.45
1:B:288:ARG:HH21	1:B:615:GLN:HB3	1.80	0.45
1:D:350:TYR:OH	1:D:643:PRO:O	2.31	0.45
1:F:244:THR:HA	1:F:679:VAL:O	2.16	0.45
1:F:519:ASN:O	1:F:520:PRO:C	2.60	0.45
1:H:238:ARG:HD2	1:H:684:GLU:OE2	2.17	0.45
1:I:332:LYS:NZ	1:J:657:ASP:OD2	2.29	0.45
1:K:238:ARG:HD2	1:K:684:GLU:OE2	2.17	0.45
1:M:238:ARG:HD2	1:M:684:GLU:OE2	2.17	0.45
1:N:238:ARG:HD2	1:N:684:GLU:OE2	2.17	0.45
1:N:244:THR:HA	1:N:679:VAL:O	2.16	0.45
1:O:438:PRO:HB3	1:g:380:LEU:HD21	1.98	0.45
1:P:483:SER:OG	1:P:577:TYR:HB2	2.16	0.45
1:V:480:PRO:HB3	1:4:511:LEU:HD12	1.98	0.45
1:1:341:THR:HG22	1:1:406:ARG:HG3	1.99	0.45
1:1:527:HIS:CE1	1:1:564:GLU:HB3	2.50	0.45
1:3:341:THR:HG22	1:3:406:ARG:HG3	1.99	0.45
1:4:244:THR:HA	1:4:679:VAL:O	2.16	0.45
1:5:238:ARG:HD2	1:5:684:GLU:OE2	2.17	0.45
1:5:484:TYR:O	1:5:524:MET:HE1	2.17	0.45
1:a:341:THR:HG22	1:a:406:ARG:HG3	1.99	0.45
1:b:483:SER:OG	1:b:577:TYR:HB2	2.16	0.45
1:d:244:THR:HA	1:d:679:VAL:O	2.16	0.45
1:d:519:ASN:O	1:d:520:PRO:C	2.60	0.45
1:g:244:THR:HA	1:g:679:VAL:O	2.16	0.45
1:h:287:ASN:O	1:h:618:ILE:N	2.44	0.45
1:i:437:ASN:HB2	1:j:355:VAL:HG13	1.97	0.45
1:k:238:ARG:HD2	1:k:684:GLU:OE2	2.17	0.45
1:l:527:HIS:CE1	1:l:564:GLU:HB3	2.50	0.45
1:m:341:THR:HG22	1:m:406:ARG:HG3	1.99	0.45
1:t:238:ARG:HD2	1:t:684:GLU:OE2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:341:THR:HG22	1:z:406:ARG:HG3	1.99	0.45
1:7:452:ASN:HB3	1:7:458:GLN:HB3	1.98	0.45
1:8:288:ARG:HH21	1:8:615:GLN:HB3	1.80	0.45
1:8:452:ASN:HB3	1:8:458:GLN:HB3	1.98	0.45
1:D:341:THR:HG22	1:D:406:ARG:HG3	1.99	0.45
1:F:434:ARG:HA	1:F:436:MET:HE3	1.99	0.45
1:G:238:ARG:HD2	1:G:684:GLU:OE2	2.17	0.45
1:G:341:THR:HG22	1:G:406:ARG:HG3	1.99	0.45
1:G:519:ASN:O	1:G:520:PRO:C	2.60	0.45
1:H:484:TYR:O	1:H:524:MET:HE1	2.17	0.45
1:H:527:HIS:CE1	1:H:564:GLU:HB3	2.50	0.45
1:L:484:TYR:O	1:L:524:MET:HE1	2.17	0.45
1:M:484:TYR:O	1:M:524:MET:HE1	2.17	0.45
1:O:244:THR:HA	1:O:679:VAL:O	2.16	0.45
1:O:452:ASN:HB3	1:O:458:GLN:HB3	1.98	0.45
1:O:484:TYR:O	1:O:524:MET:HE1	2.17	0.45
1:P:484:TYR:O	1:P:524:MET:HE1	2.17	0.45
1:Q:483:SER:OG	1:Q:577:TYR:HB2	2.16	0.45
1:T:434:ARG:HA	1:T:436:MET:HE3	1.99	0.45
1:Z:355:VAL:HG11	1:w:437:ASN:HB2	1.97	0.45
1:1:484:TYR:O	1:1:524:MET:HE1	2.17	0.45
1:2:484:TYR:O	1:2:524:MET:HE1	2.17	0.45
1:6:703:SER:OG	1:h:697:PRO:HG2	2.16	0.45
1:a:350:TYR:OH	1:a:643:PRO:O	2.31	0.45
1:b:452:ASN:HB3	1:b:458:GLN:HB3	1.98	0.45
1:b:484:TYR:O	1:b:524:MET:HE1	2.17	0.45
1:c:238:ARG:HD2	1:c:684:GLU:OE2	2.17	0.45
1:c:483:SER:OG	1:c:577:TYR:HB2	2.16	0.45
1:d:434:ARG:HA	1:d:436:MET:HE3	1.99	0.45
1:f:341:THR:HG22	1:f:406:ARG:HG3	1.99	0.45
1:j:244:THR:HA	1:j:679:VAL:O	2.16	0.45
1:k:484:TYR:O	1:k:524:MET:HE1	2.17	0.45
1:k:527:HIS:CE1	1:k:564:GLU:HB3	2.50	0.45
1:l:519:ASN:O	1:l:520:PRO:C	2.60	0.45
1:r:238:ARG:HD2	1:r:684:GLU:OE2	2.17	0.45
1:r:341:THR:HG22	1:r:406:ARG:HG3	1.99	0.45
1:s:238:ARG:HD2	1:s:684:GLU:OE2	2.17	0.45
1:v:484:TYR:O	1:v:524:MET:HE1	2.17	0.45
1:w:244:THR:HA	1:w:679:VAL:O	2.16	0.45
1:y:238:ARG:HD2	1:y:684:GLU:OE2	2.17	0.45
1:y:341:THR:HG22	1:y:406:ARG:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:452:ASN:HB3	1:z:458:GLN:HB3	1.98	0.45
1:z:527:HIS:CE1	1:z:564:GLU:HB3	2.50	0.45
1:7:288:ARG:HH21	1:7:615:GLN:HB3	1.80	0.45
1:A:341:THR:HG22	1:A:406:ARG:HG3	1.99	0.45
1:B:244:THR:HA	1:B:679:VAL:O	2.16	0.45
1:B:341:THR:HG22	1:B:406:ARG:HG3	1.99	0.45
1:B:434:ARG:HA	1:B:436:MET:HE3	1.99	0.45
1:B:452:ASN:HB3	1:B:458:GLN:HB3	1.98	0.45
1:E:450:THR:HG23	1:Q:502:ALA:HB2	1.97	0.45
1:F:452:ASN:HB3	1:F:458:GLN:HB3	1.98	0.45
1:H:434:ARG:HA	1:H:436:MET:HE3	1.99	0.45
1:I:244:THR:HA	1:I:679:VAL:O	2.16	0.45
1:J:484:TYR:O	1:J:524:MET:HE1	2.17	0.45
1:K:341:THR:HG22	1:K:406:ARG:HG3	1.99	0.45
1:K:350:TYR:OH	1:K:643:PRO:O	2.31	0.45
1:N:484:TYR:O	1:N:524:MET:HE1	2.17	0.45
1:O:238:ARG:HD2	1:O:684:GLU:OE2	2.17	0.45
1:Q:238:ARG:HD2	1:Q:684:GLU:OE2	2.17	0.45
1:R:341:THR:HG22	1:R:406:ARG:HG3	1.99	0.45
1:S:434:ARG:HA	1:S:436:MET:HE3	1.99	0.45
1:T:355:VAL:HG13	1:f:437:ASN:HB2	1.98	0.45
1:T:603:PRO:O	1:6:634:LEU:HD21	2.17	0.45
1:V:452:ASN:HB3	1:V:458:GLN:HB3	1.98	0.45
1:W:519:ASN:O	1:W:520:PRO:C	2.60	0.45
1:X:244:THR:HA	1:X:679:VAL:O	2.16	0.45
1:Y:341:THR:HG22	1:Y:406:ARG:HG3	1.99	0.45
1:Z:244:THR:HA	1:Z:679:VAL:O	2.16	0.45
1:1:288:ARG:HH21	1:1:615:GLN:HB3	1.80	0.45
1:1:434:ARG:HA	1:1:436:MET:HE3	1.99	0.45
1:3:519:ASN:HD22	1:3:519:ASN:HA	1.51	0.45
1:4:484:TYR:O	1:4:524:MET:HE1	2.17	0.45
1:4:485:ARG:HG2	1:4:486:GLN:N	2.32	0.45
1:5:434:ARG:HA	1:5:436:MET:HE3	1.99	0.45
1:6:341:THR:HG22	1:6:406:ARG:HG3	1.99	0.45
1:6:484:TYR:O	1:6:524:MET:HE1	2.17	0.45
1:b:238:ARG:HD2	1:b:684:GLU:OE2	2.17	0.45
1:c:484:TYR:O	1:c:524:MET:HE1	2.17	0.45
1:c:502:ALA:HB2	1:e:450:THR:HG23	1.97	0.45
1:d:452:ASN:HB3	1:d:458:GLN:HB3	1.98	0.45
1:e:483:SER:OG	1:e:577:TYR:HB2	2.16	0.45
1:h:244:THR:HA	1:h:679:VAL:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:452:ASN:HB3	1:h:458:GLN:HB3	1.98	0.45
1:k:434:ARG:HA	1:k:436:MET:HE3	1.99	0.45
1:o:244:THR:HA	1:o:679:VAL:O	2.16	0.45
1:o:437:ASN:HB2	1:p:355:VAL:HG13	1.97	0.45
1:o:483:SER:OG	1:o:577:TYR:HB2	2.16	0.45
1:o:519:ASN:O	1:o:520:PRO:C	2.60	0.45
1:p:238:ARG:HD2	1:p:684:GLU:OE2	2.17	0.45
1:q:288:ARG:HH21	1:q:615:GLN:HB3	1.80	0.45
1:r:519:ASN:O	1:r:520:PRO:C	2.60	0.45
1:x:244:THR:HA	1:x:679:VAL:O	2.16	0.45
1:z:434:ARG:HA	1:z:436:MET:HE3	1.99	0.45
1:z:484:TYR:O	1:z:524:MET:HE1	2.17	0.45
1:B:355:VAL:HG13	1:L:437:ASN:HB2	1.97	0.45
1:C:288:ARG:HH21	1:C:615:GLN:HB3	1.80	0.45
1:C:341:THR:HG22	1:C:406:ARG:HG3	1.99	0.45
1:E:483:SER:OG	1:E:577:TYR:HB2	2.16	0.45
1:E:519:ASN:O	1:E:520:PRO:C	2.60	0.45
1:F:238:ARG:HD2	1:F:684:GLU:OE2	2.17	0.45
1:I:238:ARG:HD2	1:I:684:GLU:OE2	2.17	0.45
1:K:483:SER:OG	1:K:577:TYR:HB2	2.16	0.45
1:L:244:THR:HA	1:L:679:VAL:O	2.16	0.45
1:L:483:SER:OG	1:L:577:TYR:HB2	2.16	0.45
1:L:519:ASN:O	1:L:520:PRO:C	2.60	0.45
1:N:350:TYR:OH	1:N:643:PRO:O	2.31	0.45
1:N:434:ARG:HA	1:N:436:MET:HE3	1.99	0.45
1:O:485:ARG:HG2	1:O:486:GLN:N	2.32	0.45
1:O:519:ASN:HB2	1:h:475:GLY:HA2	1.99	0.45
1:P:238:ARG:HD2	1:P:684:GLU:OE2	2.17	0.45
1:P:434:ARG:HA	1:P:436:MET:HE3	1.99	0.45
1:P:519:ASN:O	1:P:520:PRO:C	2.60	0.45
1:Q:484:TYR:O	1:Q:524:MET:HE1	2.17	0.45
1:R:244:THR:HA	1:R:679:VAL:O	2.16	0.45
1:S:341:THR:HG22	1:S:406:ARG:HG3	1.99	0.45
1:T:341:THR:HG22	1:T:406:ARG:HG3	1.99	0.45
1:U:341:THR:HG22	1:U:406:ARG:HG3	1.99	0.45
1:U:484:TYR:O	1:U:524:MET:HE1	2.17	0.45
1:W:350:TYR:OH	1:W:643:PRO:O	2.31	0.45
1:W:485:ARG:HG2	1:W:486:GLN:N	2.32	0.45
1:X:238:ARG:HD2	1:X:684:GLU:OE2	2.17	0.45
1:Z:341:THR:HG22	1:Z:406:ARG:HG3	1.99	0.45
1:2:485:ARG:HG2	1:2:486:GLN:N	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:244:THR:HA	1:3:679:VAL:O	2.16	0.45
1:4:238:ARG:HD2	1:4:684:GLU:OE2	2.17	0.45
1:4:452:ASN:HB3	1:4:458:GLN:HB3	1.98	0.45
1:5:350:TYR:OH	1:5:643:PRO:O	2.31	0.45
1:b:332:LYS:NZ	1:c:657:ASP:OD2	2.29	0.45
1:b:434:ARG:HA	1:b:436:MET:HE3	1.99	0.45
1:b:519:ASN:O	1:b:520:PRO:C	2.60	0.45
1:d:238:ARG:HD2	1:d:684:GLU:OE2	2.17	0.45
1:e:519:ASN:O	1:e:520:PRO:C	2.60	0.45
1:g:238:ARG:HD2	1:g:684:GLU:OE2	2.17	0.45
1:h:341:THR:HG22	1:h:406:ARG:HG3	1.99	0.45
1:i:244:THR:HA	1:i:679:VAL:O	2.16	0.45
1:i:437:ASN:HB2	1:j:355:VAL:HG11	1.97	0.45
1:n:484:TYR:O	1:n:524:MET:HE1	2.17	0.45
1:p:244:THR:HA	1:p:679:VAL:O	2.16	0.45
1:p:341:THR:HG22	1:p:406:ARG:HG3	1.99	0.45
1:p:434:ARG:HA	1:p:436:MET:HE3	1.99	0.45
1:p:452:ASN:HB3	1:p:458:GLN:HB3	1.98	0.45
1:q:341:THR:HG22	1:q:406:ARG:HG3	1.99	0.45
1:q:484:TYR:O	1:q:524:MET:HE1	2.17	0.45
1:u:288:ARG:HH21	1:u:615:GLN:HB3	1.80	0.45
1:u:341:THR:HG22	1:u:406:ARG:HG3	1.99	0.45
1:v:485:ARG:HG2	1:v:486:GLN:N	2.32	0.45
1:y:350:TYR:OH	1:y:643:PRO:O	2.31	0.45
1:A:484:TYR:O	1:A:524:MET:HE1	2.17	0.45
1:E:313:LEU:HD13	1:E:683:ILE:HG12	1.99	0.45
1:H:350:TYR:OH	1:H:643:PRO:O	2.31	0.45
1:I:483:SER:OG	1:I:577:TYR:HB2	2.16	0.45
1:I:484:TYR:O	1:I:524:MET:HE1	2.17	0.45
1:J:238:ARG:HD2	1:J:684:GLU:OE2	2.17	0.45
1:J:434:ARG:HA	1:J:436:MET:HE3	1.99	0.45
1:K:313:LEU:HD13	1:K:683:ILE:HG12	1.99	0.45
1:K:484:TYR:O	1:K:524:MET:HE1	2.17	0.45
1:O:475:GLY:HA2	1:g:519:ASN:HB2	1.99	0.45
1:P:341:THR:HG22	1:P:406:ARG:HG3	1.99	0.45
1:R:484:TYR:O	1:R:524:MET:HE1	2.17	0.45
1:R:511:LEU:HD12	1:U:480:PRO:HB3	1.97	0.45
1:U:244:THR:HA	1:U:679:VAL:O	2.16	0.45
1:U:519:ASN:O	1:U:520:PRO:C	2.60	0.45
1:W:275:PHE:HB3	1:W:383:ASN:HB3	1.99	0.45
1:X:657:ASP:OD2	1:5:332:LYS:NZ	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:434:ARG:HA	1:Y:436:MET:HE3	1.99	0.45
1:Z:452:ASN:HB3	1:Z:458:GLN:HB3	1.98	0.45
1:4:483:SER:OG	1:4:577:TYR:HB2	2.16	0.45
1:6:244:THR:HA	1:6:679:VAL:O	2.16	0.45
1:e:313:LEU:HD13	1:e:683:ILE:HG12	1.99	0.45
1:f:244:THR:HA	1:f:679:VAL:O	2.16	0.45
1:i:452:ASN:HB3	1:i:458:GLN:HB3	1.98	0.45
1:j:341:THR:HG22	1:j:406:ARG:HG3	1.99	0.45
1:l:275:PHE:HB3	1:l:383:ASN:HB3	1.99	0.45
1:l:485:ARG:HG2	1:l:486:GLN:N	2.32	0.45
1:m:434:ARG:HA	1:m:436:MET:HE3	1.99	0.45
1:m:452:ASN:HB3	1:m:458:GLN:HB3	1.98	0.45
1:s:484:TYR:O	1:s:524:MET:HE1	2.17	0.45
1:u:275:PHE:HB3	1:u:383:ASN:HB3	1.99	0.45
1:w:485:ARG:HG2	1:w:486:GLN:N	2.32	0.45
1:y:483:SER:OG	1:y:577:TYR:HB2	2.16	0.45
1:A:238:ARG:HD2	1:A:684:GLU:OE2	2.17	0.45
1:C:275:PHE:HB3	1:C:383:ASN:HB3	1.99	0.45
1:C:484:TYR:O	1:C:524:MET:HE1	2.17	0.45
1:D:485:ARG:HG2	1:D:486:GLN:N	2.32	0.45
1:G:519:ASN:HD22	1:G:519:ASN:HA	1.51	0.45
1:I:434:ARG:HA	1:I:436:MET:HE3	1.99	0.45
1:J:275:PHE:HB3	1:J:383:ASN:HB3	1.99	0.45
1:M:275:PHE:HB3	1:M:383:ASN:HB3	1.99	0.45
1:O:275:PHE:HB3	1:O:383:ASN:HB3	1.99	0.45
1:O:519:ASN:O	1:O:520:PRO:C	2.60	0.45
1:U:622:ILE:HB	1:U:641:LYS:HD2	1.99	0.45
1:V:244:THR:HA	1:V:679:VAL:O	2.16	0.45
1:V:313:LEU:HD13	1:V:683:ILE:HG12	1.99	0.45
1:V:341:THR:HG22	1:V:406:ARG:HG3	1.99	0.45
1:V:484:TYR:O	1:V:524:MET:HE1	2.17	0.45
1:V:519:ASN:O	1:V:520:PRO:C	2.60	0.45
1:Y:313:LEU:HD13	1:Y:683:ILE:HG12	1.99	0.45
1:Z:238:ARG:HD2	1:Z:684:GLU:OE2	2.17	0.45
1:Z:437:ASN:HB2	1:x:355:VAL:HG11	1.97	0.45
1:1:519:ASN:O	1:1:520:PRO:C	2.60	0.45
1:3:238:ARG:HD2	1:3:684:GLU:OE2	2.17	0.45
1:3:355:VAL:HG11	1:j:437:ASN:HB2	1.97	0.45
1:6:519:ASN:O	1:6:520:PRO:C	2.60	0.45
1:b:244:THR:HA	1:b:679:VAL:O	2.16	0.45
1:b:341:THR:HG22	1:b:406:ARG:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:484:TYR:O	1:f:524:MET:HE1	2.17	0.45
1:g:485:ARG:NH1	1:g:574:THR:O	2.50	0.45
1:h:519:ASN:O	1:h:520:PRO:C	2.60	0.45
1:i:238:ARG:HD2	1:i:684:GLU:OE2	2.17	0.45
1:i:485:ARG:HG2	1:i:486:GLN:N	2.32	0.45
1:i:519:ASN:O	1:i:520:PRO:C	2.60	0.45
1:j:238:ARG:HD2	1:j:684:GLU:OE2	2.17	0.45
1:k:341:THR:HG22	1:k:406:ARG:HG3	1.99	0.45
1:l:252:TYR:OH	1:l:374:ILE:O	2.21	0.45
1:l:452:ASN:HB3	1:l:458:GLN:HB3	1.98	0.45
1:l:483:SER:OG	1:l:577:TYR:HB2	2.16	0.45
1:m:275:PHE:HB3	1:m:383:ASN:HB3	1.99	0.45
1:m:313:LEU:HD13	1:m:683:ILE:HG12	1.99	0.45
1:n:238:ARG:HD2	1:n:684:GLU:OE2	2.17	0.45
1:n:275:PHE:HB3	1:n:383:ASN:HB3	1.99	0.45
1:n:434:ARG:HA	1:n:436:MET:HE3	1.99	0.45
1:p:657:ASP:OD2	1:u:332:LYS:NZ	2.29	0.45
1:s:244:THR:HA	1:s:679:VAL:O	2.16	0.45
1:s:434:ARG:HA	1:s:436:MET:HE3	1.99	0.45
1:s:483:SER:OG	1:s:577:TYR:HB2	2.16	0.45
1:w:519:ASN:O	1:w:520:PRO:C	2.60	0.45
1:y:244:THR:HA	1:y:679:VAL:O	2.16	0.45
1:y:313:LEU:HD13	1:y:683:ILE:HG12	1.99	0.45
1:y:484:TYR:O	1:y:524:MET:HE1	2.17	0.45
1:z:288:ARG:HH21	1:z:615:GLN:HB3	1.80	0.45
1:z:519:ASN:O	1:z:520:PRO:C	2.60	0.45
1:A:313:LEU:HD13	1:A:683:ILE:HG12	1.99	0.45
1:C:519:ASN:O	1:C:520:PRO:C	2.60	0.45
1:E:485:ARG:NH1	1:E:574:THR:O	2.50	0.45
1:H:341:THR:HG22	1:H:406:ARG:HG3	1.99	0.45
1:J:485:ARG:HG2	1:J:486:GLN:N	2.32	0.45
1:L:341:THR:HG22	1:L:406:ARG:HG3	1.99	0.45
1:M:341:THR:HG22	1:M:406:ARG:HG3	1.99	0.45
1:M:434:ARG:HA	1:M:436:MET:HE3	1.99	0.45
1:O:437:ASN:HB2	1:g:355:VAL:HG13	1.99	0.45
1:O:483:SER:OG	1:O:577:TYR:HB2	2.16	0.45
1:P:485:ARG:HG2	1:P:486:GLN:N	2.32	0.45
1:P:622:ILE:HB	1:P:641:LYS:HD2	1.99	0.45
1:Q:341:THR:HG22	1:Q:406:ARG:HG3	1.99	0.45
1:Q:485:ARG:NH1	1:Q:574:THR:O	2.50	0.45
1:R:275:PHE:HB3	1:R:383:ASN:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:590:GLN:HA	1:S:497:ASN:ND2	2.32	0.45
1:X:434:ARG:HA	1:X:436:MET:HE3	1.99	0.45
1:X:485:ARG:NH1	1:X:574:THR:O	2.50	0.45
1:Y:275:PHE:HB3	1:Y:383:ASN:HB3	1.99	0.45
1:Y:452:ASN:HB3	1:Y:458:GLN:HB3	1.98	0.45
1:3:485:ARG:NH1	1:3:574:THR:O	2.50	0.45
1:4:275:PHE:HB3	1:4:383:ASN:HB3	1.99	0.45
1:4:519:ASN:O	1:4:520:PRO:C	2.60	0.45
1:5:452:ASN:HB3	1:5:458:GLN:HB3	1.98	0.45
1:b:313:LEU:HD13	1:b:683:ILE:HG12	1.99	0.45
1:c:355:VAL:HG13	1:e:437:ASN:HB2	1.97	0.45
1:c:485:ARG:NH1	1:c:574:THR:O	2.50	0.45
1:c:519:ASN:O	1:c:520:PRO:C	2.60	0.45
1:f:275:PHE:HB3	1:f:383:ASN:HB3	1.99	0.45
1:i:313:LEU:HD13	1:i:683:ILE:HG12	1.99	0.45
1:i:485:ARG:NH1	1:i:574:THR:O	2.50	0.45
1:j:452:ASN:HB3	1:j:458:GLN:HB3	1.98	0.45
1:k:519:ASN:O	1:k:520:PRO:C	2.60	0.45
1:l:313:LEU:HD13	1:l:683:ILE:HG12	1.99	0.45
1:n:355:VAL:HG13	1:p:437:ASN:HB2	1.97	0.45
1:o:341:THR:HG22	1:o:406:ARG:HG3	1.99	0.45
1:q:238:ARG:HD2	1:q:684:GLU:OE2	2.17	0.45
1:w:238:ARG:HD2	1:w:684:GLU:OE2	2.17	0.45
1:w:341:THR:HG22	1:w:406:ARG:HG3	1.99	0.45
1:w:452:ASN:HB3	1:w:458:GLN:HB3	1.98	0.45
1:w:485:ARG:NH1	1:w:574:THR:O	2.50	0.45
1:x:238:ARG:HD2	1:x:684:GLU:OE2	2.17	0.45
1:7:341:THR:HG22	1:7:406:ARG:HG3	1.99	0.45
1:8:341:THR:HG22	1:8:406:ARG:HG3	1.99	0.45
1:B:519:ASN:O	1:B:520:PRO:C	2.60	0.45
1:C:289:PHE:CE2	1:C:612:VAL:HG13	2.52	0.45
1:D:289:PHE:CE2	1:D:612:VAL:HG13	2.53	0.45
1:E:275:PHE:HB3	1:E:383:ASN:HB3	1.99	0.45
1:E:437:ASN:HB2	1:Q:355:VAL:HG13	1.97	0.45
1:G:699:ILE:HG12	1:H:703:SER:O	2.17	0.45
1:H:519:ASN:O	1:H:520:PRO:C	2.60	0.45
1:K:244:THR:HA	1:K:679:VAL:O	2.16	0.45
1:M:485:ARG:NH1	1:M:574:THR:O	2.50	0.45
1:P:244:THR:HA	1:P:679:VAL:O	2.16	0.45
1:P:313:LEU:HD13	1:P:683:ILE:HG12	1.99	0.45
1:Q:275:PHE:HB3	1:Q:383:ASN:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:519:ASN:O	1:Q:520:PRO:C	2.60	0.45
1:U:434:ARG:HA	1:U:436:MET:HE3	1.99	0.45
1:X:622:ILE:HB	1:X:641:LYS:HD2	1.99	0.45
1:1:275:PHE:HB3	1:1:383:ASN:HB3	1.99	0.45
1:3:622:ILE:HB	1:3:641:LYS:HD2	1.99	0.45
1:4:289:PHE:CE2	1:4:612:VAL:HG13	2.52	0.45
1:5:289:PHE:CE2	1:5:612:VAL:HG13	2.52	0.45
1:6:622:ILE:HB	1:6:641:LYS:HD2	1.99	0.45
1:6:711:VAL:CG1	1:h:696:ASN:ND2	2.80	0.45
1:a:289:PHE:CE2	1:a:612:VAL:HG13	2.53	0.45
1:a:452:ASN:HB3	1:a:458:GLN:HB3	1.98	0.45
1:a:485:ARG:HG2	1:a:486:GLN:N	2.32	0.45
1:b:622:ILE:HB	1:b:641:LYS:HD2	1.99	0.45
1:c:275:PHE:HB3	1:c:383:ASN:HB3	1.99	0.45
1:c:341:THR:HG22	1:c:406:ARG:HG3	1.99	0.45
1:e:275:PHE:HB3	1:e:383:ASN:HB3	1.99	0.45
1:e:485:ARG:NH1	1:e:574:THR:O	2.50	0.45
1:g:485:ARG:HG2	1:g:486:GLN:N	2.32	0.45
1:h:238:ARG:HD2	1:h:684:GLU:OE2	2.17	0.45
1:h:313:LEU:HD13	1:h:683:ILE:HG12	1.99	0.45
1:i:341:THR:HG22	1:i:406:ARG:HG3	1.99	0.45
1:i:434:ARG:HA	1:i:436:MET:HE3	1.99	0.45
1:n:485:ARG:HG2	1:n:486:GLN:N	2.32	0.45
1:q:313:LEU:HD13	1:q:683:ILE:HG12	1.99	0.45
1:q:485:ARG:HG2	1:q:486:GLN:N	2.32	0.45
1:t:275:PHE:HB3	1:t:383:ASN:HB3	1.99	0.45
1:t:341:THR:HG22	1:t:406:ARG:HG3	1.99	0.45
1:t:434:ARG:HA	1:t:436:MET:HE3	1.99	0.45
1:t:485:ARG:NH1	1:t:574:THR:O	2.50	0.45
1:u:289:PHE:CE2	1:u:612:VAL:HG13	2.52	0.45
1:u:484:TYR:O	1:u:524:MET:HE1	2.17	0.45
1:v:452:ASN:HB3	1:v:458:GLN:HB3	1.98	0.45
1:w:313:LEU:HD13	1:w:683:ILE:HG12	1.99	0.45
1:x:485:ARG:NH1	1:x:574:THR:O	2.50	0.45
1:x:622:ILE:HB	1:x:641:LYS:HD2	1.99	0.45
1:z:275:PHE:HB3	1:z:383:ASN:HB3	1.99	0.45
1:7:484:TYR:O	1:7:524:MET:HE1	2.17	0.45
1:A:275:PHE:HB3	1:A:383:ASN:HB3	1.99	0.44
1:A:485:ARG:HG2	1:A:486:GLN:N	2.32	0.44
1:B:699:ILE:HG12	1:I:703:SER:O	2.17	0.44
1:C:244:THR:HA	1:C:679:VAL:O	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:519:ASN:O	1:D:520:PRO:C	2.60	0.44
1:G:434:ARG:HA	1:G:436:MET:HE3	1.99	0.44
1:I:289:PHE:CE2	1:I:612:VAL:HG13	2.53	0.44
1:J:485:ARG:NH1	1:J:574:THR:O	2.50	0.44
1:K:519:ASN:O	1:K:520:PRO:C	2.60	0.44
1:L:622:ILE:HB	1:L:641:LYS:HD2	1.99	0.44
1:M:350:TYR:OH	1:M:643:PRO:O	2.31	0.44
1:N:275:PHE:HB3	1:N:383:ASN:HB3	1.99	0.44
1:N:289:PHE:CE2	1:N:612:VAL:HG13	2.53	0.44
1:N:313:LEU:HD13	1:N:683:ILE:HG12	1.99	0.44
1:N:452:ASN:HB3	1:N:458:GLN:HB3	1.98	0.44
1:O:289:PHE:CE2	1:O:612:VAL:HG13	2.52	0.44
1:P:289:PHE:CE2	1:P:612:VAL:HG13	2.53	0.44
1:S:275:PHE:HB3	1:S:383:ASN:HB3	1.99	0.44
1:S:362:GLY:CA	1:6:662:PHE:HZ	2.24	0.44
1:S:484:TYR:O	1:S:524:MET:HE1	2.17	0.44
1:T:484:TYR:O	1:T:524:MET:HE1	2.17	0.44
1:T:519:ASN:HD22	1:T:519:ASN:HA	1.51	0.44
1:V:238:ARG:HD2	1:V:684:GLU:OE2	2.17	0.44
1:V:485:ARG:NH1	1:V:574:THR:O	2.50	0.44
1:W:313:LEU:HD13	1:W:683:ILE:HG12	1.99	0.44
1:W:452:ASN:HB3	1:W:458:GLN:HB3	1.98	0.44
1:W:703:SER:O	1:X:699:ILE:HG12	2.17	0.44
1:X:452:ASN:HB3	1:X:458:GLN:HB3	1.98	0.44
1:X:485:ARG:HG2	1:X:486:GLN:N	2.32	0.44
1:Y:483:SER:OG	1:Y:577:TYR:HB2	2.16	0.44
1:2:452:ASN:HB3	1:2:458:GLN:HB3	1.98	0.44
1:5:275:PHE:HB3	1:5:383:ASN:HB3	1.99	0.44
1:5:622:ILE:HB	1:5:641:LYS:HD2	1.99	0.44
1:6:426:TYR:OH	1:f:624:HIS:CD2	2.70	0.44
1:a:519:ASN:O	1:a:520:PRO:C	2.60	0.44
1:b:289:PHE:CE2	1:b:612:VAL:HG13	2.53	0.44
1:b:485:ARG:HG2	1:b:486:GLN:N	2.32	0.44
1:e:289:PHE:CE2	1:e:612:VAL:HG13	2.53	0.44
1:e:452:ASN:HB3	1:e:458:GLN:HB3	1.98	0.44
1:g:622:ILE:HB	1:g:641:LYS:HD2	1.99	0.44
1:h:484:TYR:O	1:h:524:MET:HE1	2.17	0.44
1:i:622:ILE:HB	1:i:641:LYS:HD2	1.99	0.44
1:j:519:ASN:O	1:j:520:PRO:C	2.60	0.44
1:n:485:ARG:NH1	1:n:574:THR:O	2.50	0.44
1:p:519:ASN:O	1:p:520:PRO:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:699:ILE:HG12	1:s:703:SER:O	2.17	0.44
1:s:289:PHE:CE2	1:s:612:VAL:HG13	2.53	0.44
1:t:622:ILE:HB	1:t:641:LYS:HD2	1.99	0.44
1:u:244:THR:HA	1:u:679:VAL:O	2.16	0.44
1:u:519:ASN:O	1:u:520:PRO:C	2.60	0.44
1:v:519:ASN:O	1:v:520:PRO:C	2.60	0.44
1:w:434:ARG:HA	1:w:436:MET:HE3	1.99	0.44
1:y:519:ASN:O	1:y:520:PRO:C	2.60	0.44
1:8:484:TYR:O	1:8:524:MET:HE1	2.17	0.44
1:A:622:ILE:HB	1:A:641:LYS:HD2	1.99	0.44
1:A:703:SER:O	1:F:699:ILE:HG12	2.18	0.44
1:B:437:ASN:HB2	1:J:355:VAL:HG13	1.97	0.44
1:D:238:ARG:HD2	1:D:684:GLU:OE2	2.17	0.44
1:D:275:PHE:HB3	1:D:383:ASN:HB3	1.99	0.44
1:D:313:LEU:HD13	1:D:683:ILE:HG12	1.99	0.44
1:D:452:ASN:HB3	1:D:458:GLN:HB3	1.98	0.44
1:E:289:PHE:CE2	1:E:612:VAL:HG13	2.53	0.44
1:E:341:THR:HG22	1:E:406:ARG:HG3	1.99	0.44
1:E:452:ASN:HB3	1:E:458:GLN:HB3	1.98	0.44
1:F:341:THR:HG22	1:F:406:ARG:HG3	1.99	0.44
1:F:484:TYR:O	1:F:524:MET:HE1	2.17	0.44
1:H:483:SER:OG	1:H:577:TYR:HB2	2.16	0.44
1:J:452:ASN:HB3	1:J:458:GLN:HB3	1.98	0.44
1:M:622:ILE:HB	1:M:641:LYS:HD2	1.99	0.44
1:N:622:ILE:HB	1:N:641:LYS:HD2	1.99	0.44
1:O:341:THR:HG22	1:O:406:ARG:HG3	1.99	0.44
1:O:485:ARG:NH1	1:O:574:THR:O	2.50	0.44
1:V:438:PRO:HB3	1:4:380:LEU:HD21	1.99	0.44
1:V:485:ARG:HG2	1:V:486:GLN:N	2.32	0.44
1:W:483:SER:OG	1:W:577:TYR:HB2	2.16	0.44
1:W:485:ARG:NH1	1:W:574:THR:O	2.50	0.44
1:X:289:PHE:CE2	1:X:612:VAL:HG13	2.52	0.44
1:Z:519:ASN:O	1:Z:520:PRO:C	2.60	0.44
1:1:238:ARG:HD2	1:1:684:GLU:OE2	2.17	0.44
1:1:485:ARG:NH1	1:1:574:THR:O	2.50	0.44
1:2:238:ARG:HD2	1:2:684:GLU:OE2	2.17	0.44
1:2:341:THR:HG22	1:2:406:ARG:HG3	1.99	0.44
1:2:519:ASN:O	1:2:520:PRO:C	2.60	0.44
1:3:275:PHE:HB3	1:3:383:ASN:HB3	1.99	0.44
1:3:519:ASN:O	1:3:520:PRO:C	2.60	0.44
1:4:341:THR:HG22	1:4:406:ARG:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:434:ARG:HA	1:4:436:MET:HE3	1.99	0.44
1:4:485:ARG:NH1	1:4:574:THR:O	2.50	0.44
1:6:434:ARG:HA	1:6:436:MET:HE3	1.99	0.44
1:6:712:GLU:HB3	1:6:724:PRO:HG3	2.00	0.44
1:a:238:ARG:HD2	1:a:684:GLU:OE2	2.17	0.44
1:a:313:LEU:HD13	1:a:683:ILE:HG12	1.99	0.44
1:d:484:TYR:O	1:d:524:MET:HE1	2.17	0.44
1:d:699:ILE:HG12	1:q:703:SER:O	2.18	0.44
1:e:341:THR:HG22	1:e:406:ARG:HG3	1.99	0.44
1:e:484:TYR:O	1:e:524:MET:HE1	2.17	0.44
1:g:434:ARG:HA	1:g:436:MET:HE3	1.99	0.44
1:h:485:ARG:NH1	1:h:574:THR:O	2.50	0.44
1:k:485:ARG:HG2	1:k:486:GLN:N	2.32	0.44
1:l:484:TYR:O	1:l:524:MET:HE1	2.17	0.44
1:m:485:ARG:HG2	1:m:486:GLN:N	2.32	0.44
1:n:313:LEU:HD13	1:n:683:ILE:HG12	1.99	0.44
1:o:622:ILE:HB	1:o:641:LYS:HD2	1.99	0.44
1:q:275:PHE:HB3	1:q:383:ASN:HB3	1.99	0.44
1:q:622:ILE:HB	1:q:641:LYS:HD2	1.99	0.44
1:r:434:ARG:HA	1:r:436:MET:HE3	1.99	0.44
1:s:275:PHE:HB3	1:s:383:ASN:HB3	1.99	0.44
1:u:434:ARG:HA	1:u:436:MET:HE3	1.99	0.44
1:u:485:ARG:NH1	1:u:574:THR:O	2.50	0.44
1:x:519:ASN:O	1:x:520:PRO:C	2.60	0.44
1:y:289:PHE:CE2	1:y:612:VAL:HG13	2.52	0.44
1:z:238:ARG:HD2	1:z:684:GLU:OE2	2.17	0.44
1:z:485:ARG:NH1	1:z:574:THR:O	2.50	0.44
1:7:289:PHE:CE2	1:7:612:VAL:HG13	2.53	0.44
1:8:289:PHE:CE2	1:8:612:VAL:HG13	2.52	0.44
1:B:485:ARG:NH1	1:B:574:THR:O	2.50	0.44
1:C:434:ARG:HA	1:C:436:MET:HE3	1.99	0.44
1:C:485:ARG:NH1	1:C:574:THR:O	2.50	0.44
1:D:699:ILE:HG12	1:M:703:SER:O	2.18	0.44
1:E:484:TYR:O	1:E:524:MET:HE1	2.17	0.44
1:F:275:PHE:HB3	1:F:383:ASN:HB3	1.99	0.44
1:F:485:ARG:NH1	1:F:574:THR:O	2.50	0.44
1:G:289:PHE:CE2	1:G:612:VAL:HG13	2.52	0.44
1:G:313:LEU:HD13	1:G:683:ILE:HG12	1.99	0.44
1:H:485:ARG:HG2	1:H:486:GLN:N	2.32	0.44
1:I:275:PHE:HB3	1:I:383:ASN:HB3	1.99	0.44
1:I:341:THR:HG22	1:I:406:ARG:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:313:LEU:HD13	1:J:683:ILE:HG12	1.99	0.44
1:N:485:ARG:NH1	1:N:574:THR:O	2.50	0.44
1:O:434:ARG:HA	1:O:436:MET:HE3	1.99	0.44
1:P:239:VAL:HG23	1:P:687:LEU:HD11	2.00	0.44
1:Q:289:PHE:CE2	1:Q:612:VAL:HG13	2.53	0.44
1:Q:434:ARG:HA	1:Q:436:MET:HE3	1.99	0.44
1:S:485:ARG:HG2	1:S:486:GLN:N	2.32	0.44
1:T:275:PHE:HB3	1:T:383:ASN:HB3	1.99	0.44
1:T:485:ARG:HG2	1:T:486:GLN:N	2.32	0.44
1:T:567:LYS:HD3	1:6:512:ASN:HD21	1.81	0.44
1:U:485:ARG:HG2	1:U:486:GLN:N	2.32	0.44
1:U:712:GLU:HB3	1:U:724:PRO:HG3	2.00	0.44
1:W:252:TYR:OH	1:W:374:ILE:O	2.21	0.44
1:X:519:ASN:O	1:X:520:PRO:C	2.60	0.44
1:Y:238:ARG:HD2	1:Y:684:GLU:OE2	2.17	0.44
1:Y:289:PHE:CE2	1:Y:612:VAL:HG13	2.53	0.44
1:Y:485:ARG:HG2	1:Y:486:GLN:N	2.32	0.44
1:Z:275:PHE:HB3	1:Z:383:ASN:HB3	1.99	0.44
1:4:285:ASP:O	1:4:363:CYS:HA	2.18	0.44
1:5:285:ASP:O	1:5:363:CYS:HA	2.18	0.44
1:5:313:LEU:HD13	1:5:683:ILE:HG12	1.99	0.44
1:5:485:ARG:NH1	1:5:574:THR:O	2.50	0.44
1:6:478:TYR:CE2	1:f:623:PRO:HD3	2.53	0.44
1:a:275:PHE:HB3	1:a:383:ASN:HB3	1.99	0.44
1:a:699:ILE:HG12	1:t:703:SER:O	2.18	0.44
1:c:289:PHE:CE2	1:c:612:VAL:HG13	2.52	0.44
1:d:341:THR:HG22	1:d:406:ARG:HG3	1.99	0.44
1:d:485:ARG:NH1	1:d:574:THR:O	2.50	0.44
1:f:485:ARG:HG2	1:f:486:GLN:N	2.32	0.44
1:g:289:PHE:CE2	1:g:612:VAL:HG13	2.53	0.44
1:g:519:ASN:O	1:g:520:PRO:C	2.60	0.44
1:j:285:ASP:O	1:j:363:CYS:HA	2.18	0.44
1:k:483:SER:OG	1:k:577:TYR:HB2	2.16	0.44
1:k:703:SER:O	1:r:699:ILE:HG12	2.18	0.44
1:m:483:SER:OG	1:m:577:TYR:HB2	2.16	0.44
1:m:484:TYR:O	1:m:524:MET:HE1	2.17	0.44
1:n:452:ASN:HB3	1:n:458:GLN:HB3	1.98	0.44
1:o:313:LEU:HD13	1:o:683:ILE:HG12	1.99	0.44
1:p:485:ARG:NH1	1:p:574:THR:O	2.50	0.44
1:q:712:GLU:HB3	1:q:724:PRO:HG3	2.00	0.44
1:r:289:PHE:CE2	1:r:612:VAL:HG13	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:313:LEU:HD13	1:r:683:ILE:HG12	1.99	0.44
1:t:519:ASN:O	1:t:520:PRO:C	2.60	0.44
1:v:341:THR:HG22	1:v:406:ARG:HG3	1.99	0.44
1:w:622:ILE:HB	1:w:641:LYS:HD2	1.99	0.44
1:z:712:GLU:HB3	1:z:724:PRO:HG3	2.00	0.44
1:7:485:ARG:NH1	1:7:574:THR:O	2.50	0.44
1:8:485:ARG:NH1	1:8:574:THR:O	2.50	0.44
1:A:289:PHE:CE2	1:A:612:VAL:HG13	2.53	0.44
1:A:712:GLU:HB3	1:A:724:PRO:HG3	2.00	0.44
1:C:699:ILE:HG12	1:L:703:SER:O	2.17	0.44
1:C:712:GLU:HB3	1:C:724:PRO:HG3	2.00	0.44
1:D:622:ILE:HB	1:D:641:LYS:HD2	1.99	0.44
1:E:712:GLU:HB3	1:E:724:PRO:HG3	2.00	0.44
1:H:275:PHE:HB3	1:H:383:ASN:HB3	1.99	0.44
1:K:289:PHE:CE2	1:K:612:VAL:HG13	2.53	0.44
1:K:485:ARG:NH1	1:K:574:THR:O	2.50	0.44
1:K:622:ILE:HB	1:K:641:LYS:HD2	1.99	0.44
1:L:313:LEU:HD13	1:L:683:ILE:HG12	1.99	0.44
1:N:285:ASP:O	1:N:363:CYS:HA	2.18	0.44
1:O:712:GLU:HB3	1:O:724:PRO:HG3	2.00	0.44
1:R:285:ASP:O	1:R:363:CYS:HA	2.18	0.44
1:S:230:CYS:SG	1:6:399:TYR:HA	2.58	0.44
1:W:239:VAL:HG23	1:W:687:LEU:HD11	1.99	0.44
1:W:285:ASP:O	1:W:363:CYS:HA	2.18	0.44
1:Z:285:ASP:O	1:Z:363:CYS:HA	2.18	0.44
1:1:712:GLU:HB3	1:1:724:PRO:HG3	2.00	0.44
1:3:285:ASP:O	1:3:363:CYS:HA	2.18	0.44
1:4:712:GLU:HB3	1:4:724:PRO:HG3	2.00	0.44
1:5:380:LEU:HD21	1:a:438:PRO:HB3	2.00	0.44
1:6:485:ARG:HG2	1:6:486:GLN:N	2.32	0.44
1:b:239:VAL:HG23	1:b:687:LEU:HD11	2.00	0.44
1:b:703:SER:O	1:e:699:ILE:HG12	2.18	0.44
1:d:275:PHE:HB3	1:d:383:ASN:HB3	1.99	0.44
1:e:712:GLU:HB3	1:e:724:PRO:HG3	2.00	0.44
1:g:452:ASN:HB3	1:g:458:GLN:HB3	1.98	0.44
1:g:699:ILE:HG12	1:l:703:SER:O	2.17	0.44
1:i:239:VAL:HG23	1:i:687:LEU:HD11	2.00	0.44
1:j:275:PHE:HB3	1:j:383:ASN:HB3	1.99	0.44
1:l:285:ASP:O	1:l:363:CYS:HA	2.18	0.44
1:l:485:ARG:NH1	1:l:574:THR:O	2.50	0.44
1:m:238:ARG:HD2	1:m:684:GLU:OE2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:289:PHE:CE2	1:m:612:VAL:HG13	2.53	0.44
1:s:341:THR:HG22	1:s:406:ARG:HG3	1.99	0.44
1:t:350:TYR:OH	1:t:643:PRO:O	2.31	0.44
1:u:712:GLU:HB3	1:u:724:PRO:HG3	2.00	0.44
1:v:238:ARG:HD2	1:v:684:GLU:OE2	2.17	0.44
1:x:275:PHE:HB3	1:x:383:ASN:HB3	1.99	0.44
1:x:285:ASP:O	1:x:363:CYS:HA	2.18	0.44
1:y:485:ARG:NH1	1:y:574:THR:O	2.50	0.44
1:y:622:ILE:HB	1:y:641:LYS:HD2	1.99	0.44
1:D:485:ARG:NH1	1:D:574:THR:O	2.50	0.44
1:E:699:ILE:HG12	1:P:703:SER:O	2.18	0.44
1:F:485:ARG:HG2	1:F:486:GLN:N	2.32	0.44
1:G:275:PHE:HB3	1:G:383:ASN:HB3	1.99	0.44
1:I:317:LEU:HB2	1:I:411:PHE:HB3	2.00	0.44
1:L:373:MET:HE2	1:2:658:PRO:HB3	2.00	0.44
1:M:519:ASN:O	1:M:520:PRO:C	2.60	0.44
1:M:712:GLU:HB3	1:M:724:PRO:HG3	2.00	0.44
1:O:285:ASP:O	1:O:363:CYS:HA	2.18	0.44
1:R:238:ARG:HD2	1:R:684:GLU:OE2	2.17	0.44
1:R:289:PHE:CE2	1:R:612:VAL:HG13	2.53	0.44
1:R:485:ARG:HG2	1:R:486:GLN:N	2.32	0.44
1:S:239:VAL:HG23	1:S:687:LEU:HD11	2.00	0.44
1:S:289:PHE:CE2	1:S:612:VAL:HG13	2.52	0.44
1:T:239:VAL:HG23	1:T:687:LEU:HD11	2.00	0.44
1:T:693:LYS:HE2	1:6:399:TYR:CE2	2.52	0.44
1:U:275:PHE:HB3	1:U:383:ASN:HB3	1.99	0.44
1:U:313:LEU:HD13	1:U:683:ILE:HG12	1.99	0.44
1:V:239:VAL:HG23	1:V:687:LEU:HD11	2.00	0.44
1:W:484:TYR:O	1:W:524:MET:HE1	2.17	0.44
1:Y:484:TYR:O	1:Y:524:MET:HE1	2.17	0.44
1:2:289:PHE:CE2	1:2:612:VAL:HG13	2.52	0.44
1:3:313:LEU:HD13	1:3:683:ILE:HG12	1.99	0.44
1:a:485:ARG:NH1	1:a:574:THR:O	2.50	0.44
1:a:622:ILE:HB	1:a:641:LYS:HD2	1.99	0.44
1:b:285:ASP:O	1:b:363:CYS:HA	2.18	0.44
1:c:434:ARG:HA	1:c:436:MET:HE3	1.99	0.44
1:f:285:ASP:O	1:f:363:CYS:HA	2.18	0.44
1:g:437:ASN:HB2	1:h:355:VAL:HG11	1.99	0.44
1:g:437:ASN:HB2	1:h:355:VAL:HG13	1.99	0.44
1:h:239:VAL:HG23	1:h:687:LEU:HD11	2.00	0.44
1:i:699:ILE:HG12	1:z:703:SER:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:275:PHE:HB3	1:k:383:ASN:HB3	1.99	0.44
1:k:485:ARG:NH1	1:k:574:THR:O	2.50	0.44
1:l:239:VAL:HG23	1:l:687:LEU:HD11	2.00	0.44
1:n:438:PRO:HB3	1:o:380:LEU:HD21	1.99	0.44
1:n:703:SER:O	1:y:699:ILE:HG12	2.18	0.44
1:o:373:MET:HE2	1:v:658:PRO:HB3	2.00	0.44
1:o:703:SER:O	1:u:699:ILE:HG12	2.17	0.44
1:q:289:PHE:CE2	1:q:612:VAL:HG13	2.53	0.44
1:s:485:ARG:NH1	1:s:574:THR:O	2.50	0.44
1:t:712:GLU:HB3	1:t:724:PRO:HG3	2.00	0.44
1:v:434:ARG:HA	1:v:436:MET:HE3	1.99	0.44
1:w:712:GLU:HB3	1:w:724:PRO:HG3	2.00	0.44
1:x:313:LEU:HD13	1:x:683:ILE:HG12	1.99	0.44
1:x:484:TYR:O	1:x:524:MET:HE1	2.17	0.44
1:7:285:ASP:O	1:7:363:CYS:HA	2.18	0.44
1:7:712:GLU:HB3	1:7:724:PRO:HG3	2.00	0.44
1:8:285:ASP:O	1:8:363:CYS:HA	2.18	0.44
1:A:317:LEU:HB2	1:A:411:PHE:HB3	2.00	0.44
1:B:380:LEU:HD21	1:L:438:PRO:HB3	2.00	0.44
1:D:438:PRO:HB3	1:N:380:LEU:HD21	2.00	0.44
1:D:484:TYR:O	1:D:524:MET:HE1	2.17	0.44
1:E:317:LEU:HB2	1:E:411:PHE:HB3	2.00	0.44
1:E:434:ARG:HA	1:E:436:MET:HE3	1.99	0.44
1:G:484:TYR:O	1:G:524:MET:HE1	2.17	0.44
1:G:703:SER:O	1:H:699:ILE:HG12	2.18	0.44
1:H:285:ASP:O	1:H:363:CYS:HA	2.18	0.44
1:H:485:ARG:NH1	1:H:574:THR:O	2.50	0.44
1:I:485:ARG:NH1	1:I:574:THR:O	2.50	0.44
1:J:438:PRO:HB3	1:L:380:LEU:HD21	1.99	0.44
1:J:703:SER:O	1:K:699:ILE:HG12	2.18	0.44
1:N:703:SER:O	1:O:699:ILE:HG12	2.17	0.44
1:P:287:ASN:O	1:P:618:ILE:N	2.44	0.44
1:R:434:ARG:HA	1:R:436:MET:HE3	1.99	0.44
1:S:285:ASP:O	1:S:363:CYS:HA	2.18	0.44
1:S:313:LEU:HD13	1:S:683:ILE:HG12	1.99	0.44
1:T:289:PHE:CE2	1:T:612:VAL:HG13	2.52	0.44
1:U:289:PHE:CE2	1:U:612:VAL:HG13	2.53	0.44
1:U:699:ILE:HG12	1:V:703:SER:O	2.18	0.44
1:W:712:GLU:HB3	1:W:724:PRO:HG3	2.00	0.44
1:Z:434:ARG:HA	1:Z:436:MET:HE3	1.99	0.44
1:1:289:PHE:CE2	1:1:612:VAL:HG13	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:703:SER:O	1:w:699:ILE:HG12	2.18	0.44
1:2:285:ASP:O	1:2:363:CYS:HA	2.18	0.44
1:2:434:ARG:HA	1:2:436:MET:HE3	1.99	0.44
1:2:712:GLU:HB3	1:2:724:PRO:HG3	2.00	0.44
1:3:484:TYR:O	1:3:524:MET:HE1	2.17	0.44
1:a:484:TYR:O	1:a:524:MET:HE1	2.17	0.44
1:b:287:ASN:O	1:b:618:ILE:N	2.44	0.44
1:c:519:ASN:HD22	1:c:519:ASN:HA	1.51	0.44
1:e:317:LEU:HB2	1:e:411:PHE:HB3	2.00	0.44
1:e:434:ARG:HA	1:e:436:MET:HE3	1.99	0.44
1:f:238:ARG:HD2	1:f:684:GLU:OE2	2.17	0.44
1:f:289:PHE:CE2	1:f:612:VAL:HG13	2.52	0.44
1:f:519:ASN:O	1:f:520:PRO:C	2.60	0.44
1:f:658:PRO:HB3	1:h:373:MET:HE2	2.00	0.44
1:i:712:GLU:HB3	1:i:724:PRO:HG3	2.00	0.44
1:j:313:LEU:HD13	1:j:683:ILE:HG12	1.99	0.44
1:j:434:ARG:HA	1:j:436:MET:HE3	1.99	0.44
1:k:285:ASP:O	1:k:363:CYS:HA	2.18	0.44
1:l:238:ARG:HD2	1:l:684:GLU:OE2	2.17	0.44
1:l:712:GLU:HB3	1:l:724:PRO:HG3	2.00	0.44
1:p:275:PHE:HB3	1:p:383:ASN:HB3	1.99	0.44
1:q:317:LEU:HB2	1:q:411:PHE:HB3	2.00	0.44
1:r:275:PHE:HB3	1:r:383:ASN:HB3	1.99	0.44
1:r:484:TYR:O	1:r:524:MET:HE1	2.17	0.44
1:s:317:LEU:HB2	1:s:411:PHE:HB3	2.00	0.44
1:v:289:PHE:CE2	1:v:612:VAL:HG13	2.52	0.44
1:v:712:GLU:HB3	1:v:724:PRO:HG3	2.00	0.44
1:w:239:VAL:HG23	1:w:687:LEU:HD11	2.00	0.44
1:7:519:ASN:O	1:7:520:PRO:C	2.60	0.44
1:8:712:GLU:HB3	1:8:724:PRO:HG3	2.00	0.44
1:A:485:ARG:NH1	1:A:574:THR:O	2.50	0.44
1:B:275:PHE:HB3	1:B:383:ASN:HB3	1.99	0.44
1:B:484:TYR:O	1:B:524:MET:HE1	2.17	0.44
1:D:712:GLU:HB3	1:D:724:PRO:HG3	2.00	0.44
1:E:438:PRO:HB3	1:Q:380:LEU:HD21	2.00	0.44
1:F:332:LYS:NZ	1:G:657:ASP:OD2	2.29	0.44
1:F:712:GLU:HB3	1:F:724:PRO:HG3	2.00	0.44
1:G:239:VAL:HG23	1:G:687:LEU:HD11	1.99	0.44
1:I:285:ASP:O	1:I:363:CYS:HA	2.18	0.44
1:L:275:PHE:HB3	1:L:383:ASN:HB3	1.99	0.44
1:L:317:LEU:HB2	1:L:411:PHE:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:712:GLU:HB3	1:L:724:PRO:HG3	2.00	0.44
1:N:239:VAL:HG23	1:N:687:LEU:HD11	2.00	0.44
1:P:373:MET:HE2	1:Q:658:PRO:HB3	2.00	0.44
1:Q:485:ARG:HG2	1:Q:486:GLN:N	2.32	0.44
1:Q:703:SER:O	1:R:699:ILE:HG12	2.18	0.44
1:S:238:ARG:HD2	1:S:684:GLU:OE2	2.17	0.44
1:T:313:LEU:HD13	1:T:683:ILE:HG12	1.99	0.44
1:V:285:ASP:O	1:V:363:CYS:HA	2.18	0.44
1:V:289:PHE:CE2	1:V:612:VAL:HG13	2.53	0.44
1:W:238:ARG:HD2	1:W:684:GLU:OE2	2.17	0.44
1:W:289:PHE:CE2	1:W:612:VAL:HG13	2.53	0.44
1:X:341:THR:HG22	1:X:406:ARG:HG3	1.99	0.44
1:Y:285:ASP:O	1:Y:363:CYS:HA	2.18	0.44
1:Y:373:MET:HE2	1:x:658:PRO:HB3	2.00	0.44
1:Y:485:ARG:NH1	1:Y:574:THR:O	2.50	0.44
1:Z:313:LEU:HD13	1:Z:683:ILE:HG12	1.99	0.44
1:Z:485:ARG:HG2	1:Z:486:GLN:N	2.32	0.44
1:2:622:ILE:HB	1:2:641:LYS:HD2	1.99	0.44
1:3:239:VAL:HG23	1:3:687:LEU:HD11	2.00	0.44
1:3:289:PHE:CE2	1:3:612:VAL:HG13	2.52	0.44
1:5:239:VAL:HG23	1:5:687:LEU:HD11	2.00	0.44
1:6:239:VAL:HG23	1:6:687:LEU:HD11	2.00	0.44
1:6:275:PHE:HB3	1:6:383:ASN:HB3	1.99	0.44
1:6:289:PHE:CE2	1:6:612:VAL:HG13	2.53	0.44
1:c:380:LEU:HD21	1:e:438:PRO:HB3	2.00	0.44
1:c:485:ARG:HG2	1:c:486:GLN:N	2.32	0.44
1:c:622:ILE:HB	1:c:641:LYS:HD2	1.99	0.44
1:d:438:PRO:HB3	1:e:380:LEU:HD21	2.00	0.44
1:d:485:ARG:HG2	1:d:486:GLN:N	2.32	0.44
1:d:712:GLU:HB3	1:d:724:PRO:HG3	2.00	0.44
1:g:275:PHE:HB3	1:g:383:ASN:HB3	1.99	0.44
1:g:703:SER:O	1:l:699:ILE:HG12	2.18	0.44
1:h:434:ARG:HA	1:h:436:MET:HE3	1.99	0.44
1:j:485:ARG:HG2	1:j:486:GLN:N	2.32	0.44
1:j:622:ILE:HB	1:j:641:LYS:HD2	1.99	0.44
1:k:699:ILE:HG12	1:r:703:SER:O	2.18	0.44
1:m:285:ASP:O	1:m:363:CYS:HA	2.18	0.44
1:m:485:ARG:NH1	1:m:574:THR:O	2.50	0.44
1:n:622:ILE:HB	1:n:641:LYS:HD2	1.99	0.44
1:o:275:PHE:HB3	1:o:383:ASN:HB3	1.99	0.44
1:o:317:LEU:HB2	1:o:411:PHE:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:434:ARG:HA	1:o:436:MET:HE3	1.99	0.44
1:o:712:GLU:HB3	1:o:724:PRO:HG3	2.00	0.44
1:p:289:PHE:CE2	1:p:612:VAL:HG13	2.53	0.44
1:p:484:TYR:O	1:p:524:MET:HE1	2.17	0.44
1:r:519:ASN:HD22	1:r:519:ASN:HA	1.51	0.44
1:s:519:ASN:O	1:s:520:PRO:C	2.60	0.44
1:t:313:LEU:HD13	1:t:683:ILE:HG12	1.99	0.44
1:t:438:PRO:HB3	1:u:380:LEU:HD21	2.00	0.44
1:v:285:ASP:O	1:v:363:CYS:HA	2.18	0.44
1:x:239:VAL:HG23	1:x:687:LEU:HD11	1.99	0.44
1:z:289:PHE:CE2	1:z:612:VAL:HG13	2.53	0.44
1:z:438:PRO:HB3	1:7:380:LEU:HD21	2.00	0.44
1:7:238:ARG:HD2	1:7:684:GLU:OE2	2.17	0.44
1:8:519:ASN:O	1:8:520:PRO:C	2.60	0.44
1:B:289:PHE:CE2	1:B:612:VAL:HG13	2.53	0.44
1:C:239:VAL:HG23	1:C:687:LEU:HD11	2.00	0.44
1:C:313:LEU:HD13	1:C:683:ILE:HG12	1.99	0.44
1:C:380:LEU:HD21	1:M:438:PRO:HB3	2.00	0.44
1:E:239:VAL:HG23	1:E:687:LEU:HD11	2.00	0.44
1:E:380:LEU:HD21	1:F:438:PRO:HB3	2.00	0.44
1:E:485:ARG:HG2	1:E:486:GLN:N	2.32	0.44
1:F:239:VAL:HG23	1:F:687:LEU:HD11	2.00	0.44
1:I:519:ASN:O	1:I:520:PRO:C	2.60	0.44
1:J:289:PHE:CE2	1:J:612:VAL:HG13	2.52	0.44
1:J:622:ILE:HB	1:J:641:LYS:HD2	1.99	0.44
1:L:434:ARG:HA	1:L:436:MET:HE3	1.99	0.44
1:M:313:LEU:HD13	1:M:683:ILE:HG12	1.99	0.44
1:O:388:ALA:N	1:6:708:SER:O	2.39	0.44
1:P:275:PHE:HB3	1:P:383:ASN:HB3	1.99	0.44
1:P:285:ASP:O	1:P:363:CYS:HA	2.18	0.44
1:P:485:ARG:NH1	1:P:574:THR:O	2.50	0.44
1:R:438:PRO:HB3	1:S:380:LEU:HD21	1.98	0.44
1:R:519:ASN:O	1:R:520:PRO:C	2.60	0.44
1:S:698:GLU:HG2	1:T:296:ARG:NE	2.33	0.44
1:T:238:ARG:HD2	1:T:684:GLU:OE2	2.17	0.44
1:T:285:ASP:O	1:T:363:CYS:HA	2.18	0.44
1:W:622:ILE:HB	1:W:641:LYS:HD2	1.99	0.44
1:X:313:LEU:HD13	1:X:683:ILE:HG12	1.99	0.44
1:Y:734:ARG:HG2	1:Y:735:ASN:N	2.33	0.44
1:Z:239:VAL:HG23	1:Z:687:LEU:HD11	1.99	0.44
1:1:438:PRO:HB3	1:8:380:LEU:HD21	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:239:VAL:HG23	1:2:687:LEU:HD11	2.00	0.44
1:3:612:VAL:O	1:3:729:THR:OG1	2.36	0.44
1:4:699:ILE:HG12	1:5:703:SER:O	2.18	0.44
1:4:703:SER:O	1:5:699:ILE:HG12	2.17	0.44
1:5:485:ARG:HG2	1:5:486:GLN:N	2.32	0.44
1:5:519:ASN:O	1:5:520:PRO:C	2.60	0.44
1:6:313:LEU:HD13	1:6:683:ILE:HG12	1.99	0.44
1:6:485:ARG:NH1	1:6:574:THR:O	2.50	0.44
1:6:590:GLN:HA	1:f:497:ASN:ND2	2.32	0.44
1:a:712:GLU:HB3	1:a:724:PRO:HG3	2.00	0.44
1:b:485:ARG:NH1	1:b:574:THR:O	2.50	0.44
1:b:699:ILE:HG12	1:e:703:SER:O	2.18	0.44
1:d:239:VAL:HG23	1:d:687:LEU:HD11	2.00	0.44
1:e:238:ARG:HD2	1:e:684:GLU:OE2	2.17	0.44
1:e:239:VAL:HG23	1:e:687:LEU:HD11	2.00	0.44
1:f:434:ARG:HA	1:f:436:MET:HE3	1.99	0.44
1:g:252:TYR:OH	1:g:374:ILE:O	2.21	0.44
1:g:285:ASP:O	1:g:363:CYS:HA	2.18	0.44
1:g:313:LEU:HD13	1:g:683:ILE:HG12	1.99	0.44
1:g:341:THR:HG22	1:g:406:ARG:HG3	1.99	0.44
1:h:285:ASP:O	1:h:363:CYS:HA	2.18	0.44
1:h:289:PHE:CE2	1:h:612:VAL:HG13	2.52	0.44
1:i:275:PHE:HB3	1:i:383:ASN:HB3	1.99	0.44
1:i:285:ASP:O	1:i:363:CYS:HA	2.18	0.44
1:j:239:VAL:HG23	1:j:687:LEU:HD11	1.99	0.44
1:m:734:ARG:HG2	1:m:735:ASN:N	2.33	0.44
1:n:289:PHE:CE2	1:n:612:VAL:HG13	2.52	0.44
1:n:341:THR:HG22	1:n:406:ARG:HG3	1.99	0.44
1:o:238:ARG:HD2	1:o:684:GLU:OE2	2.17	0.44
1:p:485:ARG:HG2	1:p:486:GLN:N	2.32	0.44
1:q:485:ARG:NH1	1:q:574:THR:O	2.50	0.44
1:r:317:LEU:HB2	1:r:411:PHE:HB3	2.00	0.44
1:s:285:ASP:O	1:s:363:CYS:HA	2.18	0.44
1:u:313:LEU:HD13	1:u:683:ILE:HG12	1.99	0.44
1:v:622:ILE:HB	1:v:641:LYS:HD2	1.99	0.44
1:w:285:ASP:O	1:w:363:CYS:HA	2.18	0.44
1:x:289:PHE:CE2	1:x:612:VAL:HG13	2.52	0.44
1:z:313:LEU:HD13	1:z:683:ILE:HG12	1.99	0.44
1:A:519:ASN:O	1:A:520:PRO:C	2.60	0.44
1:B:734:ARG:HG2	1:B:735:ASN:N	2.33	0.44
1:D:380:LEU:HD21	1:P:438:PRO:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:238:ARG:HD2	1:E:684:GLU:OE2	2.17	0.44
1:E:703:SER:O	1:P:699:ILE:HG12	2.18	0.44
1:F:289:PHE:CE2	1:F:612:VAL:HG13	2.53	0.44
1:G:285:ASP:O	1:G:363:CYS:HA	2.18	0.44
1:G:317:LEU:HB2	1:G:411:PHE:HB3	2.00	0.44
1:K:712:GLU:HB3	1:K:724:PRO:HG3	2.00	0.44
1:L:238:ARG:HD2	1:L:684:GLU:OE2	2.17	0.44
1:M:239:VAL:HG23	1:M:687:LEU:HD11	1.99	0.44
1:N:438:PRO:HB3	1:P:380:LEU:HD21	2.00	0.44
1:N:485:ARG:HG2	1:N:486:GLN:N	2.32	0.44
1:O:355:VAL:HG13	1:h:437:ASN:HB2	1.99	0.44
1:O:734:ARG:HG2	1:O:735:ASN:N	2.33	0.44
1:Q:287:ASN:O	1:Q:618:ILE:N	2.44	0.44
1:Q:622:ILE:HB	1:Q:641:LYS:HD2	1.99	0.44
1:Q:699:ILE:HG12	1:R:703:SER:O	2.18	0.44
1:R:622:ILE:HB	1:R:641:LYS:HD2	1.99	0.44
1:S:438:PRO:HB3	1:U:380:LEU:HD21	2.00	0.44
1:T:622:ILE:HB	1:T:641:LYS:HD2	1.99	0.44
1:U:239:VAL:HG23	1:U:687:LEU:HD11	2.00	0.44
1:U:485:ARG:NH1	1:U:574:THR:O	2.50	0.44
1:U:734:ARG:HG2	1:U:735:ASN:N	2.33	0.44
1:V:434:ARG:HA	1:V:436:MET:HE3	1.99	0.44
1:V:519:ASN:HD22	1:V:519:ASN:HA	1.51	0.44
1:X:275:PHE:HB3	1:X:383:ASN:HB3	1.99	0.44
1:X:285:ASP:O	1:X:363:CYS:HA	2.18	0.44
1:Y:239:VAL:HG23	1:Y:687:LEU:HD11	2.00	0.44
1:Z:289:PHE:CE2	1:Z:612:VAL:HG13	2.53	0.44
1:Z:622:ILE:HB	1:Z:641:LYS:HD2	1.99	0.44
1:l:285:ASP:O	1:l:363:CYS:HA	2.18	0.44
1:l:313:LEU:HD13	1:l:683:ILE:HG12	1.99	0.44
1:6:285:ASP:O	1:6:363:CYS:HA	2.18	0.44
1:a:380:LEU:HD21	1:b:438:PRO:HB3	2.00	0.44
1:e:485:ARG:HG2	1:e:486:GLN:N	2.32	0.44
1:f:317:LEU:HB2	1:f:411:PHE:HB3	2.00	0.44
1:l:289:PHE:CE2	1:l:612:VAL:HG13	2.53	0.44
1:l:622:ILE:HB	1:l:641:LYS:HD2	1.99	0.44
1:m:239:VAL:HG23	1:m:687:LEU:HD11	2.00	0.44
1:n:239:VAL:HG23	1:n:687:LEU:HD11	2.00	0.44
1:o:239:VAL:HG23	1:o:687:LEU:HD11	2.00	0.44
1:o:438:PRO:HB3	1:p:380:LEU:HD21	2.00	0.44
1:q:519:ASN:O	1:q:520:PRO:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:285:ASP:O	1:r:363:CYS:HA	2.18	0.44
1:t:239:VAL:HG23	1:t:687:LEU:HD11	1.99	0.44
1:u:239:VAL:HG23	1:u:687:LEU:HD11	2.00	0.44
1:v:239:VAL:HG23	1:v:687:LEU:HD11	2.00	0.44
1:w:275:PHE:HB3	1:w:383:ASN:HB3	1.99	0.44
1:x:485:ARG:HG2	1:x:486:GLN:N	2.32	0.44
1:x:612:VAL:O	1:x:729:THR:OG1	2.36	0.44
1:y:712:GLU:HB3	1:y:724:PRO:HG3	2.00	0.44
1:7:275:PHE:HB3	1:7:383:ASN:HB3	1.99	0.44
1:7:703:SER:O	1:8:699:ILE:HG12	2.18	0.44
1:8:238:ARG:HD2	1:8:684:GLU:OE2	2.17	0.44
1:8:275:PHE:HB3	1:8:383:ASN:HB3	1.99	0.44
1:8:485:ARG:HG2	1:8:486:GLN:N	2.32	0.44
1:B:622:ILE:HB	1:B:641:LYS:HD2	1.99	0.43
1:C:317:LEU:HB2	1:C:411:PHE:HB3	2.00	0.43
1:E:285:ASP:O	1:E:363:CYS:HA	2.18	0.43
1:G:712:GLU:HB3	1:G:724:PRO:HG3	2.00	0.43
1:H:289:PHE:CE2	1:H:612:VAL:HG13	2.53	0.43
1:H:380:LEU:HD21	1:Y:438:PRO:HB3	2.00	0.43
1:J:341:THR:HG22	1:J:406:ARG:HG3	1.99	0.43
1:K:434:ARG:HA	1:K:436:MET:HE3	1.99	0.43
1:L:239:VAL:HG23	1:L:687:LEU:HD11	2.00	0.43
1:L:289:PHE:CE2	1:L:612:VAL:HG13	2.53	0.43
1:L:485:ARG:HG2	1:L:486:GLN:N	2.32	0.43
1:M:380:LEU:HD21	1:2:438:PRO:HB3	2.00	0.43
1:N:519:ASN:O	1:N:520:PRO:C	2.60	0.43
1:N:734:ARG:HG2	1:N:735:ASN:N	2.33	0.43
1:O:380:LEU:HD21	1:h:438:PRO:HB3	2.00	0.43
1:Q:285:ASP:O	1:Q:363:CYS:HA	2.18	0.43
1:Q:519:ASN:HD22	1:Q:519:ASN:HA	1.51	0.43
1:R:317:LEU:HB2	1:R:411:PHE:HB3	2.00	0.43
1:S:734:ARG:HG2	1:S:735:ASN:N	2.33	0.43
1:T:734:ARG:HG2	1:T:735:ASN:N	2.33	0.43
1:U:285:ASP:O	1:U:363:CYS:HA	2.18	0.43
1:Y:703:SER:O	1:Z:699:ILE:HG12	2.17	0.43
1:Z:485:ARG:NH1	1:Z:574:THR:O	2.50	0.43
1:3:658:PRO:HB3	1:m:373:MET:HE2	2.00	0.43
1:4:734:ARG:HG2	1:4:735:ASN:N	2.33	0.43
1:5:734:ARG:HG2	1:5:735:ASN:N	2.33	0.43
1:6:317:LEU:HB2	1:6:411:PHE:HB3	2.00	0.43
1:c:285:ASP:O	1:c:363:CYS:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:289:PHE:CE2	1:d:612:VAL:HG13	2.52	0.43
1:d:373:MET:HE2	1:r:658:PRO:HB3	2.00	0.43
1:d:703:SER:O	1:q:699:ILE:HG12	2.18	0.43
1:e:285:ASP:O	1:e:363:CYS:HA	2.18	0.43
1:f:622:ILE:HB	1:f:641:LYS:HD2	1.99	0.43
1:j:289:PHE:CE2	1:j:612:VAL:HG13	2.53	0.43
1:k:380:LEU:HD21	1:m:438:PRO:HB3	2.00	0.43
1:l:341:THR:HG22	1:l:406:ARG:HG3	1.99	0.43
1:o:289:PHE:CE2	1:o:612:VAL:HG13	2.53	0.43
1:o:485:ARG:NH1	1:o:574:THR:O	2.50	0.43
1:p:734:ARG:HG2	1:p:735:ASN:N	2.33	0.43
1:r:239:VAL:HG23	1:r:687:LEU:HD11	2.00	0.43
1:t:380:LEU:HD21	1:v:438:PRO:HB3	2.00	0.43
1:u:317:LEU:HB2	1:u:411:PHE:HB3	2.00	0.43
1:v:485:ARG:NH1	1:v:574:THR:O	2.50	0.43
1:z:285:ASP:O	1:z:363:CYS:HA	2.18	0.43
1:7:434:ARG:HA	1:7:436:MET:HE3	1.99	0.43
1:7:485:ARG:HG2	1:7:486:GLN:N	2.32	0.43
1:7:699:ILE:HG12	1:8:703:SER:O	2.18	0.43
1:A:734:ARG:HG2	1:A:735:ASN:N	2.33	0.43
1:B:485:ARG:HG2	1:B:486:GLN:N	2.32	0.43
1:C:485:ARG:HG2	1:C:486:GLN:N	2.32	0.43
1:C:703:SER:O	1:L:699:ILE:HG12	2.18	0.43
1:D:434:ARG:HA	1:D:436:MET:HE3	1.99	0.43
1:E:367:PHE:CE2	1:E:369:ALA:HB3	2.54	0.43
1:E:622:ILE:HB	1:E:641:LYS:HD2	1.99	0.43
1:F:373:MET:HE2	1:G:658:PRO:HB3	2.00	0.43
1:F:734:ARG:HG2	1:F:735:ASN:N	2.33	0.43
1:H:239:VAL:HG23	1:H:687:LEU:HD11	2.00	0.43
1:I:313:LEU:HD13	1:I:683:ILE:HG12	1.99	0.43
1:I:712:GLU:HB3	1:I:724:PRO:HG3	2.00	0.43
1:J:239:VAL:HG23	1:J:687:LEU:HD11	2.00	0.43
1:J:466:ALA:HB1	1:J:474:GLN:HG2	2.01	0.43
1:K:466:ALA:HB1	1:K:474:GLN:HG2	2.00	0.43
1:N:341:THR:HG22	1:N:406:ARG:HG3	1.99	0.43
1:R:478:TYR:CE2	1:S:623:PRO:HD3	2.53	0.43
1:T:511:LEU:HD12	1:f:480:PRO:HB3	2.00	0.43
1:U:317:LEU:HB2	1:U:411:PHE:HB3	2.00	0.43
1:U:703:SER:O	1:V:699:ILE:HG12	2.18	0.43
1:V:275:PHE:HB3	1:V:383:ASN:HB3	1.99	0.43
1:W:317:LEU:HB2	1:W:411:PHE:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:699:ILE:HG12	1:X:703:SER:O	2.18	0.43
1:X:239:VAL:HG23	1:X:687:LEU:HD11	2.00	0.43
1:X:712:GLU:HB3	1:X:724:PRO:HG3	2.00	0.43
1:Z:242:THR:HG22	1:Z:682:GLU:HB3	2.00	0.43
1:Z:350:TYR:OH	1:Z:643:PRO:O	2.31	0.43
1:1:734:ARG:HG2	1:1:735:ASN:N	2.33	0.43
1:3:485:ARG:HG2	1:3:486:GLN:N	2.32	0.43
1:5:341:THR:HG22	1:5:406:ARG:HG3	1.99	0.43
1:5:438:PRO:HB3	1:b:380:LEU:HD21	2.00	0.43
1:6:238:ARG:HD2	1:6:684:GLU:OE2	2.17	0.43
1:6:734:ARG:HG2	1:6:735:ASN:N	2.33	0.43
1:a:239:VAL:HG23	1:a:687:LEU:HD11	1.99	0.43
1:a:434:ARG:HA	1:a:436:MET:HE3	1.99	0.43
1:b:275:PHE:HB3	1:b:383:ASN:HB3	1.99	0.43
1:b:373:MET:HE2	1:c:658:PRO:HB3	2.00	0.43
1:c:703:SER:O	1:f:699:ILE:HG12	2.18	0.43
1:d:658:PRO:HB3	1:f:373:MET:HE2	1.99	0.43
1:d:734:ARG:HG2	1:d:735:ASN:N	2.33	0.43
1:e:367:PHE:CE2	1:e:369:ALA:HB3	2.54	0.43
1:e:622:ILE:HB	1:e:641:LYS:HD2	1.99	0.43
1:f:485:ARG:NH1	1:f:574:THR:O	2.50	0.43
1:g:712:GLU:HB3	1:g:724:PRO:HG3	2.00	0.43
1:h:367:PHE:CE2	1:h:369:ALA:HB3	2.53	0.43
1:j:350:TYR:OH	1:j:643:PRO:O	2.31	0.43
1:k:239:VAL:HG23	1:k:687:LEU:HD11	2.00	0.43
1:k:289:PHE:CE2	1:k:612:VAL:HG13	2.53	0.43
1:k:317:LEU:HB2	1:k:411:PHE:HB3	2.00	0.43
1:k:622:ILE:HB	1:k:641:LYS:HD2	1.99	0.43
1:l:434:ARG:HA	1:l:436:MET:HE3	1.99	0.43
1:n:466:ALA:HB1	1:n:474:GLN:HG2	2.01	0.43
1:o:485:ARG:HG2	1:o:486:GLN:N	2.32	0.43
1:p:622:ILE:HB	1:p:641:LYS:HD2	1.99	0.43
1:q:350:TYR:OH	1:q:643:PRO:O	2.31	0.43
1:q:434:ARG:HA	1:q:436:MET:HE3	1.99	0.43
1:r:712:GLU:HB3	1:r:724:PRO:HG3	2.00	0.43
1:s:239:VAL:HG23	1:s:687:LEU:HD11	2.00	0.43
1:s:367:PHE:CE2	1:s:369:ALA:HB3	2.54	0.43
1:s:712:GLU:HB3	1:s:724:PRO:HG3	2.00	0.43
1:u:485:ARG:HG2	1:u:486:GLN:N	2.32	0.43
1:v:466:ALA:HB1	1:v:474:GLN:HG2	2.00	0.43
1:x:734:ARG:HG2	1:x:735:ASN:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:239:VAL:HG23	1:7:687:LEU:HD11	1.99	0.43
1:A:434:ARG:HA	1:A:436:MET:HE3	1.99	0.43
1:A:699:ILE:HG12	1:F:703:SER:O	2.18	0.43
1:B:703:SER:O	1:I:699:ILE:HG12	2.18	0.43
1:C:285:ASP:O	1:C:363:CYS:HA	2.18	0.43
1:D:239:VAL:HG23	1:D:687:LEU:HD11	1.99	0.43
1:D:287:ASN:O	1:D:618:ILE:N	2.44	0.43
1:G:485:ARG:NH1	1:G:574:THR:O	2.50	0.43
1:H:712:GLU:HB3	1:H:724:PRO:HG3	2.00	0.43
1:I:239:VAL:HG23	1:I:687:LEU:HD11	2.00	0.43
1:I:367:PHE:CE2	1:I:369:ALA:HB3	2.54	0.43
1:I:734:ARG:HG2	1:I:735:ASN:N	2.33	0.43
1:L:485:ARG:NH1	1:L:574:THR:O	2.50	0.43
1:S:485:ARG:NH1	1:S:574:THR:O	2.50	0.43
1:S:622:ILE:HB	1:S:641:LYS:HD2	1.99	0.43
1:U:238:ARG:HD2	1:U:684:GLU:OE2	2.17	0.43
1:V:367:PHE:CE2	1:V:369:ALA:HB3	2.54	0.43
1:V:622:ILE:HB	1:V:641:LYS:HD2	1.99	0.43
1:W:434:ARG:HA	1:W:436:MET:HE3	1.99	0.43
1:W:438:PRO:HB3	1:Y:380:LEU:HD21	2.00	0.43
1:X:252:TYR:OH	1:X:374:ILE:O	2.21	0.43
1:Y:367:PHE:CE2	1:Y:369:ALA:HB3	2.54	0.43
1:Z:658:PRO:HB3	1:1:373:MET:HE2	2.00	0.43
1:1:239:VAL:HG23	1:1:687:LEU:HD11	2.00	0.43
1:1:622:ILE:HB	1:1:641:LYS:HD2	1.99	0.43
1:2:485:ARG:NH1	1:2:574:THR:O	2.50	0.43
1:3:287:ASN:O	1:3:618:ILE:N	2.44	0.43
1:3:734:ARG:HG2	1:3:735:ASN:N	2.33	0.43
1:6:434:ARG:HD2	1:f:380:LEU:HD13	1.99	0.43
1:6:478:TYR:CD2	1:f:623:PRO:HD3	2.54	0.43
1:a:317:LEU:HB2	1:a:411:PHE:HB3	2.00	0.43
1:d:332:LYS:NZ	1:r:657:ASP:OD2	2.29	0.43
1:f:313:LEU:HD13	1:f:683:ILE:HG12	1.99	0.43
1:h:275:PHE:HB3	1:h:383:ASN:HB3	1.99	0.43
1:h:485:ARG:HG2	1:h:486:GLN:N	2.32	0.43
1:h:622:ILE:HB	1:h:641:LYS:HD2	1.99	0.43
1:j:242:THR:HG22	1:j:682:GLU:HB3	2.00	0.43
1:j:485:ARG:NH1	1:j:574:THR:O	2.50	0.43
1:j:658:PRO:HB3	1:z:373:MET:HE2	2.00	0.43
1:j:699:ILE:HG12	1:m:703:SER:O	2.18	0.43
1:j:703:SER:O	1:m:699:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:712:GLU:HB3	1:j:724:PRO:HG3	2.00	0.43
1:k:313:LEU:HD13	1:k:683:ILE:HG12	1.99	0.43
1:k:712:GLU:HB3	1:k:724:PRO:HG3	2.00	0.43
1:l:317:LEU:HB2	1:l:411:PHE:HB3	2.00	0.43
1:l:350:TYR:OH	1:l:643:PRO:O	2.31	0.43
1:l:438:PRO:HB3	1:m:380:LEU:HD21	2.00	0.43
1:m:367:PHE:CE2	1:m:369:ALA:HB3	2.54	0.43
1:p:703:SER:O	1:s:699:ILE:HG12	2.18	0.43
1:q:734:ARG:HG2	1:q:735:ASN:N	2.33	0.43
1:r:485:ARG:NH1	1:r:574:THR:O	2.50	0.43
1:s:313:LEU:HD13	1:s:683:ILE:HG12	1.99	0.43
1:w:466:ALA:HB1	1:w:474:GLN:HG2	2.00	0.43
1:x:287:ASN:O	1:x:618:ILE:N	2.44	0.43
1:y:239:VAL:HG23	1:y:687:LEU:HD11	1.99	0.43
1:y:317:LEU:HB2	1:y:411:PHE:HB3	2.00	0.43
1:y:466:ALA:HB1	1:y:474:GLN:HG2	2.01	0.43
1:z:734:ARG:HG2	1:z:735:ASN:N	2.33	0.43
1:8:239:VAL:HG23	1:8:687:LEU:HD11	1.99	0.43
1:8:434:ARG:HA	1:8:436:MET:HE3	1.99	0.43
1:A:478:TYR:CE2	1:G:623:PRO:HD3	2.54	0.43
1:B:313:LEU:HD13	1:B:683:ILE:HG12	1.99	0.43
1:D:317:LEU:HB2	1:D:411:PHE:HB3	2.00	0.43
1:D:703:SER:O	1:M:699:ILE:HG12	2.18	0.43
1:F:622:ILE:HB	1:F:641:LYS:HD2	1.99	0.43
1:H:313:LEU:HD13	1:H:683:ILE:HG12	1.99	0.43
1:H:317:LEU:HB2	1:H:411:PHE:HB3	2.00	0.43
1:J:285:ASP:O	1:J:363:CYS:HA	2.18	0.43
1:J:287:ASN:O	1:J:618:ILE:N	2.44	0.43
1:J:734:ARG:HG2	1:J:735:ASN:N	2.33	0.43
1:K:239:VAL:HG23	1:K:687:LEU:HD11	1.99	0.43
1:K:317:LEU:HB2	1:K:411:PHE:HB3	2.00	0.43
1:K:623:PRO:HD3	1:8:478:TYR:CE2	2.54	0.43
1:L:367:PHE:CE2	1:L:369:ALA:HB3	2.54	0.43
1:O:242:THR:HG22	1:O:682:GLU:HB3	2.01	0.43
1:O:497:ASN:ND2	1:h:590:GLN:HA	2.33	0.43
1:P:317:LEU:HB2	1:P:411:PHE:HB3	2.00	0.43
1:P:466:ALA:HB1	1:P:474:GLN:HG2	2.00	0.43
1:R:242:THR:HG22	1:R:682:GLU:HB3	2.01	0.43
1:R:313:LEU:HD13	1:R:683:ILE:HG12	1.99	0.43
1:R:367:PHE:CE2	1:R:369:ALA:HB3	2.54	0.43
1:R:485:ARG:NH1	1:R:574:THR:O	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:712:GLU:HB3	1:R:724:PRO:HG3	2.00	0.43
1:T:428:HIS:O	1:6:382:LEU:HD11	2.18	0.43
1:T:485:ARG:NH1	1:T:574:THR:O	2.50	0.43
1:W:341:THR:HG22	1:W:406:ARG:HG3	1.99	0.43
1:Y:699:ILE:HG12	1:Z:703:SER:O	2.18	0.43
1:Z:712:GLU:HB3	1:Z:724:PRO:HG3	2.00	0.43
1:1:699:ILE:HG12	1:w:703:SER:O	2.18	0.43
1:2:466:ALA:HB1	1:2:474:GLN:HG2	2.01	0.43
1:3:367:PHE:CE2	1:3:369:ALA:HB3	2.54	0.43
1:4:242:THR:HG22	1:4:682:GLU:HB3	2.01	0.43
1:5:658:PRO:HB3	1:t:373:MET:HE2	2.00	0.43
1:b:317:LEU:HB2	1:b:411:PHE:HB3	2.00	0.43
1:c:242:THR:HG22	1:c:682:GLU:HB3	2.01	0.43
1:c:287:ASN:O	1:c:618:ILE:N	2.44	0.43
1:c:350:TYR:OH	1:c:643:PRO:O	2.31	0.43
1:f:367:PHE:CE2	1:f:369:ALA:HB3	2.53	0.43
1:f:712:GLU:HB3	1:f:724:PRO:HG3	2.00	0.43
1:g:239:VAL:HG23	1:g:687:LEU:HD11	2.00	0.43
1:g:242:THR:HG22	1:g:682:GLU:HB3	2.01	0.43
1:g:367:PHE:CE2	1:g:369:ALA:HB3	2.54	0.43
1:i:367:PHE:CE2	1:i:369:ALA:HB3	2.54	0.43
1:i:373:MET:HE2	1:7:658:PRO:HB3	2.00	0.43
1:i:466:ALA:HB1	1:i:474:GLN:HG2	2.00	0.43
1:j:484:TYR:O	1:j:524:MET:HE1	2.17	0.43
1:k:734:ARG:HG2	1:k:735:ASN:N	2.33	0.43
1:n:734:ARG:HG2	1:n:735:ASN:N	2.33	0.43
1:o:367:PHE:CE2	1:o:369:ALA:HB3	2.54	0.43
1:o:699:ILE:HG12	1:u:703:SER:O	2.18	0.43
1:s:734:ARG:HG2	1:s:735:ASN:N	2.33	0.43
1:u:285:ASP:O	1:u:363:CYS:HA	2.18	0.43
1:w:373:MET:HE2	1:8:658:PRO:HB3	2.00	0.43
1:x:367:PHE:CE2	1:x:369:ALA:HB3	2.53	0.43
1:x:712:GLU:HB3	1:x:724:PRO:HG3	2.00	0.43
1:y:434:ARG:HA	1:y:436:MET:HE3	1.99	0.43
1:z:239:VAL:HG23	1:z:687:LEU:HD11	2.00	0.43
1:7:734:ARG:HG2	1:7:735:ASN:N	2.33	0.43
1:8:287:ASN:O	1:8:618:ILE:N	2.44	0.43
1:A:350:TYR:OH	1:A:643:PRO:O	2.31	0.43
1:A:658:PRO:HB3	1:B:373:MET:HE2	2.01	0.43
1:B:285:ASP:O	1:B:363:CYS:HA	2.18	0.43
1:C:622:ILE:HB	1:C:641:LYS:HD2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:313:LEU:HD13	1:F:683:ILE:HG12	1.99	0.43
1:H:438:PRO:HB3	1:W:380:LEU:HD21	2.00	0.43
1:H:622:ILE:HB	1:H:641:LYS:HD2	2.00	0.43
1:H:734:ARG:HG2	1:H:735:ASN:N	2.33	0.43
1:K:478:TYR:CE2	1:I:623:PRO:HD3	2.54	0.43
1:M:373:MET:HE2	1:N:658:PRO:HB3	2.01	0.43
1:M:466:ALA:HB1	1:M:474:GLN:HG2	2.01	0.43
1:N:242:THR:HG22	1:N:682:GLU:HB3	2.01	0.43
1:Q:242:THR:HG22	1:Q:682:GLU:HB3	2.01	0.43
1:Q:317:LEU:HB2	1:Q:411:PHE:HB3	2.00	0.43
1:R:239:VAL:HG23	1:R:687:LEU:HD11	2.00	0.43
1:T:367:PHE:CE2	1:T:369:ALA:HB3	2.53	0.43
1:X:242:THR:HG22	1:X:682:GLU:HB3	2.01	0.43
1:X:287:ASN:O	1:X:618:ILE:N	2.44	0.43
1:X:332:LYS:NZ	1:Y:657:ASP:OD2	2.29	0.43
1:X:367:PHE:CE2	1:X:369:ALA:HB3	2.54	0.43
1:X:380:LEU:HD21	1:4:438:PRO:HB3	2.00	0.43
1:X:466:ALA:HB1	1:X:474:GLN:HG2	2.01	0.43
1:Y:317:LEU:HB2	1:Y:411:PHE:HB3	2.00	0.43
1:2:367:PHE:CE2	1:2:369:ALA:HB3	2.54	0.43
1:3:434:ARG:HA	1:3:436:MET:HE3	1.99	0.43
1:a:285:ASP:O	1:a:363:CYS:HA	2.18	0.43
1:a:703:SER:O	1:t:699:ILE:HG12	2.18	0.43
1:a:734:ARG:HG2	1:a:735:ASN:N	2.33	0.43
1:b:712:GLU:HB3	1:b:724:PRO:HG3	2.00	0.43
1:c:313:LEU:HD13	1:c:683:ILE:HG12	1.99	0.43
1:c:734:ARG:HG2	1:c:735:ASN:N	2.33	0.43
1:d:285:ASP:O	1:d:363:CYS:HA	2.18	0.43
1:d:313:LEU:HD13	1:d:683:ILE:HG12	1.99	0.43
1:e:734:ARG:HG2	1:e:735:ASN:N	2.33	0.43
1:g:287:ASN:O	1:g:618:ILE:N	2.44	0.43
1:k:438:PRO:HB3	1:l:380:LEU:HD21	2.00	0.43
1:m:712:GLU:HB3	1:m:724:PRO:HG3	2.00	0.43
1:o:437:ASN:HB2	1:p:355:VAL:HG11	1.98	0.43
1:p:313:LEU:HD13	1:p:683:ILE:HG12	1.99	0.43
1:p:519:ASN:HD22	1:p:519:ASN:HA	1.51	0.43
1:q:478:TYR:CE2	1:r:623:PRO:HD3	2.54	0.43
1:t:466:ALA:HB1	1:t:474:GLN:HG2	2.00	0.43
1:t:734:ARG:HG2	1:t:735:ASN:N	2.33	0.43
1:u:622:ILE:HB	1:u:641:LYS:HD2	1.99	0.43
1:v:703:SER:O	1:x:699:ILE:HG12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:289:PHE:CE2	1:w:612:VAL:HG13	2.52	0.43
1:w:367:PHE:CE2	1:w:369:ALA:HB3	2.54	0.43
1:x:434:ARG:HA	1:x:436:MET:HE3	1.99	0.43
1:y:478:TYR:CE2	1:z:623:PRO:HD3	2.54	0.43
1:y:623:PRO:HD3	1:7:478:TYR:CE2	2.54	0.43
1:z:485:ARG:HG2	1:z:486:GLN:N	2.32	0.43
1:7:242:THR:HG22	1:7:682:GLU:HB3	2.01	0.43
1:8:242:THR:HG22	1:8:682:GLU:HB3	2.01	0.43
1:8:734:ARG:HG2	1:8:735:ASN:N	2.33	0.43
1:B:355:VAL:HG11	1:L:437:ASN:HB2	1.98	0.43
1:B:466:ALA:HB1	1:B:474:GLN:HG2	2.01	0.43
1:B:478:TYR:CE2	1:J:623:PRO:HD3	2.54	0.43
1:C:242:THR:HG22	1:C:682:GLU:HB3	2.01	0.43
1:D:734:ARG:HG2	1:D:735:ASN:N	2.33	0.43
1:E:734:ARG:HG2	1:E:735:ASN:N	2.33	0.43
1:F:285:ASP:O	1:F:363:CYS:HA	2.18	0.43
1:F:658:PRO:HB3	1:R:373:MET:HE2	2.00	0.43
1:G:438:PRO:HB3	1:I:380:LEU:HD21	2.00	0.43
1:G:485:ARG:HG2	1:G:486:GLN:N	2.32	0.43
1:J:699:ILE:HG12	1:K:703:SER:O	2.18	0.43
1:M:734:ARG:HG2	1:M:735:ASN:N	2.33	0.43
1:N:373:MET:HE2	1:g:658:PRO:HB3	2.00	0.43
1:N:712:GLU:HB3	1:N:724:PRO:HG3	2.00	0.43
1:O:313:LEU:HD13	1:O:683:ILE:HG12	1.99	0.43
1:O:373:MET:HE2	1:P:658:PRO:HB3	1.98	0.43
1:O:400:PHE:CZ	1:h:693:LYS:HG2	2.54	0.43
1:P:712:GLU:HB3	1:P:724:PRO:HG3	2.00	0.43
1:Q:239:VAL:HG23	1:Q:687:LEU:HD11	2.00	0.43
1:Q:313:LEU:HD13	1:Q:683:ILE:HG12	1.99	0.43
1:Q:350:TYR:OH	1:Q:643:PRO:O	2.31	0.43
1:Q:734:ARG:HG2	1:Q:735:ASN:N	2.33	0.43
1:S:367:PHE:CE2	1:S:369:ALA:HB3	2.53	0.43
1:S:466:ALA:HB1	1:S:474:GLN:HG2	2.01	0.43
1:T:357:GLY:O	1:f:477:ASN:ND2	2.51	0.43
1:T:466:ALA:HB1	1:T:474:GLN:HG2	2.01	0.43
1:X:373:MET:HE2	1:Y:658:PRO:HB3	2.01	0.43
1:Z:380:LEU:HD21	1:w:438:PRO:HB3	2.00	0.43
1:Z:484:TYR:O	1:Z:524:MET:HE1	2.17	0.43
1:1:367:PHE:CE2	1:1:369:ALA:HB3	2.53	0.43
1:1:478:TYR:CE2	1:8:623:PRO:HD3	2.54	0.43
1:1:485:ARG:HG2	1:1:486:GLN:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:703:SER:O	1:3:699:ILE:HG12	2.18	0.43
1:3:438:PRO:HB3	1:i:380:LEU:HD21	2.00	0.43
1:4:239:VAL:HG23	1:4:687:LEU:HD11	1.99	0.43
1:4:313:LEU:HD13	1:4:683:ILE:HG12	1.99	0.43
1:4:622:ILE:HB	1:4:641:LYS:HD2	1.99	0.43
1:a:287:ASN:O	1:a:618:ILE:N	2.44	0.43
1:b:466:ALA:HB1	1:b:474:GLN:HG2	2.01	0.43
1:c:239:VAL:HG23	1:c:687:LEU:HD11	2.00	0.43
1:c:317:LEU:HB2	1:c:411:PHE:HB3	2.00	0.43
1:c:466:ALA:HB1	1:c:474:GLN:HG2	2.01	0.43
1:d:367:PHE:CE2	1:d:369:ALA:HB3	2.53	0.43
1:d:622:ILE:HB	1:d:641:LYS:HD2	1.99	0.43
1:f:242:THR:HG22	1:f:682:GLU:HB3	2.01	0.43
1:g:466:ALA:HB1	1:g:474:GLN:HG2	2.01	0.43
1:m:317:LEU:HB2	1:m:411:PHE:HB3	2.00	0.43
1:m:622:ILE:HB	1:m:641:LYS:HD2	1.99	0.43
1:n:285:ASP:O	1:n:363:CYS:HA	2.18	0.43
1:n:287:ASN:O	1:n:618:ILE:N	2.44	0.43
1:n:519:ASN:O	1:n:520:PRO:C	2.60	0.43
1:o:734:ARG:HG2	1:o:735:ASN:N	2.33	0.43
1:r:438:PRO:HB3	1:s:380:LEU:HD21	2.00	0.43
1:r:485:ARG:HG2	1:r:486:GLN:N	2.32	0.43
1:u:242:THR:HG22	1:u:682:GLU:HB3	2.01	0.43
1:v:367:PHE:CE2	1:v:369:ALA:HB3	2.54	0.43
1:w:380:LEU:HD21	1:x:438:PRO:HB3	2.00	0.43
1:z:478:TYR:CE2	1:7:623:PRO:HD3	2.54	0.43
1:8:313:LEU:HD13	1:8:683:ILE:HG12	1.99	0.43
1:8:622:ILE:HB	1:8:641:LYS:HD2	1.99	0.43
1:C:623:PRO:HD3	1:M:478:TYR:CE2	2.54	0.43
1:D:285:ASP:O	1:D:363:CYS:HA	2.18	0.43
1:D:367:PHE:CE2	1:D:369:ALA:HB3	2.54	0.43
1:D:466:ALA:HB1	1:D:474:GLN:HG2	2.01	0.43
1:E:466:ALA:HB1	1:E:474:GLN:HG2	2.01	0.43
1:F:242:THR:HG22	1:F:682:GLU:HB3	2.01	0.43
1:L:734:ARG:HG2	1:L:735:ASN:N	2.33	0.43
1:M:285:ASP:O	1:M:363:CYS:HA	2.18	0.43
1:M:289:PHE:CE2	1:M:612:VAL:HG13	2.53	0.43
1:M:317:LEU:HB2	1:M:411:PHE:HB3	2.00	0.43
1:O:239:VAL:HG23	1:O:687:LEU:HD11	2.00	0.43
1:P:367:PHE:CE2	1:P:369:ALA:HB3	2.54	0.43
1:Q:466:ALA:HB1	1:Q:474:GLN:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:623:PRO:HD3	1:f:478:TYR:CE2	2.54	0.43
1:U:367:PHE:CE2	1:U:369:ALA:HB3	2.54	0.43
1:U:466:ALA:HB1	1:U:474:GLN:HG2	2.01	0.43
1:V:478:TYR:CE2	1:4:623:PRO:HD3	2.54	0.43
1:Y:287:ASN:O	1:Y:618:ILE:N	2.44	0.43
1:Y:622:ILE:HB	1:Y:641:LYS:HD2	1.99	0.43
1:Y:712:GLU:HB3	1:Y:724:PRO:HG3	2.00	0.43
1:1:317:LEU:HB2	1:1:411:PHE:HB3	2.00	0.43
1:5:466:ALA:HB1	1:5:474:GLN:HG2	2.00	0.43
1:5:712:GLU:HB3	1:5:724:PRO:HG3	2.00	0.43
1:6:466:ALA:HB1	1:6:474:GLN:HG2	2.01	0.43
1:a:367:PHE:CE2	1:a:369:ALA:HB3	2.54	0.43
1:a:466:ALA:HB1	1:a:474:GLN:HG2	2.01	0.43
1:b:367:PHE:CE2	1:b:369:ALA:HB3	2.54	0.43
1:e:466:ALA:HB1	1:e:474:GLN:HG2	2.01	0.43
1:f:239:VAL:HG23	1:f:687:LEU:HD11	2.00	0.43
1:g:373:MET:HE2	1:m:658:PRO:HB3	2.01	0.43
1:h:519:ASN:HD22	1:h:519:ASN:HA	1.51	0.43
1:i:289:PHE:CE2	1:i:612:VAL:HG13	2.53	0.43
1:i:438:PRO:HB3	1:j:380:LEU:HD21	2.00	0.43
1:i:703:SER:O	1:z:699:ILE:HG12	2.18	0.43
1:k:478:TYR:CE2	1:l:623:PRO:HD3	2.54	0.43
1:n:623:PRO:HD3	1:p:478:TYR:CE2	2.54	0.43
1:n:699:ILE:HG12	1:y:703:SER:O	2.18	0.43
1:p:285:ASP:O	1:p:363:CYS:HA	2.18	0.43
1:p:373:MET:HE2	1:q:658:PRO:HB3	2.01	0.43
1:p:466:ALA:HB1	1:p:474:GLN:HG2	2.01	0.43
1:w:734:ARG:HG2	1:w:735:ASN:N	2.33	0.43
1:y:734:ARG:HG2	1:y:735:ASN:N	2.33	0.43
1:z:317:LEU:HB2	1:z:411:PHE:HB3	2.00	0.43
1:z:367:PHE:CE2	1:z:369:ALA:HB3	2.54	0.43
1:z:622:ILE:HB	1:z:641:LYS:HD2	2.00	0.43
1:7:466:ALA:HB1	1:7:474:GLN:HG2	2.01	0.43
1:A:239:VAL:HG23	1:A:687:LEU:HD11	2.00	0.43
1:A:380:LEU:HD21	1:I:438:PRO:HB3	2.00	0.43
1:B:239:VAL:HG23	1:B:687:LEU:HD11	2.00	0.43
1:F:367:PHE:CE2	1:F:369:ALA:HB3	2.54	0.43
1:F:623:PRO:HD3	1:Q:478:TYR:CE2	2.54	0.43
1:H:242:THR:HG22	1:H:682:GLU:HB3	2.01	0.43
1:H:367:PHE:CE2	1:H:369:ALA:HB3	2.53	0.43
1:H:478:TYR:CE2	1:W:623:PRO:HD3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:612:VAL:O	1:H:729:THR:OG1	2.36	0.43
1:I:242:THR:HG22	1:I:682:GLU:HB3	2.01	0.43
1:J:519:ASN:O	1:J:520:PRO:C	2.60	0.43
1:J:712:GLU:HB3	1:J:724:PRO:HG3	2.00	0.43
1:M:485:ARG:HG2	1:M:486:GLN:N	2.32	0.43
1:N:478:TYR:CE2	1:P:623:PRO:HD3	2.54	0.43
1:O:622:ILE:HB	1:O:641:LYS:HD2	2.00	0.43
1:R:235:LEU:HD22	1:R:238:ARG:NH1	2.34	0.43
1:W:478:TYR:CE2	1:Y:623:PRO:HD3	2.54	0.43
1:X:235:LEU:HD22	1:X:238:ARG:NH1	2.34	0.43
1:Z:235:LEU:HD22	1:Z:238:ARG:NH1	2.34	0.43
1:2:734:ARG:HG2	1:2:735:ASN:N	2.33	0.43
1:3:712:GLU:HB3	1:3:724:PRO:HG3	2.00	0.43
1:5:242:THR:HG22	1:5:682:GLU:HB3	2.01	0.43
1:6:235:LEU:HD22	1:6:238:ARG:NH1	2.34	0.43
1:6:287:ASN:O	1:6:618:ILE:N	2.44	0.43
1:6:367:PHE:CE2	1:6:369:ALA:HB3	2.53	0.43
1:6:442:GLN:HA	1:f:360:HIS:HA	2.00	0.43
1:6:462:LYS:HA	1:f:553:VAL:O	2.18	0.43
1:6:698:GLU:CG	1:h:296:ARG:NE	2.81	0.43
1:d:317:LEU:HB2	1:d:411:PHE:HB3	2.00	0.43
1:f:235:LEU:HD22	1:f:238:ARG:NH1	2.34	0.43
1:h:662:PHE:CZ	1:l:362:GLY:HA2	2.51	0.43
1:i:734:ARG:HG2	1:i:735:ASN:N	2.33	0.43
1:j:235:LEU:HD22	1:j:238:ARG:NH1	2.34	0.43
1:j:373:MET:HE2	1:k:658:PRO:HB3	2.00	0.43
1:k:367:PHE:CE2	1:k:369:ALA:HB3	2.54	0.43
1:l:658:PRO:HB3	1:r:373:MET:HE2	2.01	0.43
1:n:317:LEU:HB2	1:n:411:PHE:HB3	2.00	0.43
1:p:658:PRO:HB3	1:u:373:MET:HE2	2.00	0.43
1:s:242:THR:HG22	1:s:682:GLU:HB3	2.01	0.43
1:t:285:ASP:O	1:t:363:CYS:HA	2.18	0.43
1:t:317:LEU:HB2	1:t:411:PHE:HB3	2.00	0.43
1:t:478:TYR:CE2	1:u:623:PRO:HD3	2.54	0.43
1:t:519:ASN:HD22	1:t:519:ASN:HA	1.51	0.43
1:v:313:LEU:HD13	1:v:683:ILE:HG12	1.99	0.43
1:v:734:ARG:HG2	1:v:735:ASN:N	2.33	0.43
1:y:380:LEU:HD21	1:7:438:PRO:HB3	2.00	0.43
1:7:622:ILE:HB	1:7:641:LYS:HD2	1.99	0.43
1:8:466:ALA:HB1	1:8:474:GLN:HG2	2.01	0.43
1:A:466:ALA:HB1	1:A:474:GLN:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:503:TRP:HZ3	1:A:517:LEU:HB2	1.84	0.43
1:B:658:PRO:HB3	1:C:373:MET:HE2	2.00	0.43
1:F:317:LEU:HB2	1:F:411:PHE:HB3	2.00	0.43
1:G:373:MET:HE2	1:W:658:PRO:HB3	2.01	0.43
1:G:734:ARG:HG2	1:G:735:ASN:N	2.33	0.43
1:H:477:ASN:ND2	1:W:357:GLY:O	2.52	0.43
1:H:658:PRO:HB3	1:Z:373:MET:HE2	2.00	0.43
1:I:373:MET:HE2	1:J:658:PRO:HB3	2.00	0.43
1:J:317:LEU:HB2	1:J:411:PHE:HB3	2.00	0.43
1:K:275:PHE:HB3	1:K:383:ASN:HB3	1.99	0.43
1:K:285:ASP:O	1:K:363:CYS:HA	2.18	0.43
1:K:380:LEU:HD21	1:8:438:PRO:HB3	2.00	0.43
1:K:485:ARG:HG2	1:K:486:GLN:N	2.32	0.43
1:K:519:ASN:HD22	1:K:519:ASN:HA	1.51	0.43
1:K:734:ARG:HG2	1:K:735:ASN:N	2.33	0.43
1:N:466:ALA:HB1	1:N:474:GLN:HG2	2.01	0.43
1:O:367:PHE:CE2	1:O:369:ALA:HB3	2.54	0.43
1:Q:712:GLU:HB3	1:Q:724:PRO:HG3	2.00	0.43
1:T:235:LEU:HD22	1:T:238:ARG:NH1	2.34	0.43
1:U:235:LEU:HD22	1:U:238:ARG:NH1	2.34	0.43
1:V:466:ALA:HB1	1:V:474:GLN:HG2	2.00	0.43
1:W:734:ARG:HG2	1:W:735:ASN:N	2.33	0.43
1:2:313:LEU:HD13	1:2:683:ILE:HG12	1.99	0.43
1:3:466:ALA:HB1	1:3:474:GLN:HG2	2.01	0.43
1:4:367:PHE:CE2	1:4:369:ALA:HB3	2.54	0.43
1:5:478:TYR:CE2	1:b:623:PRO:HD3	2.54	0.43
1:6:519:ASN:HD22	1:6:519:ASN:HA	1.51	0.43
1:c:478:TYR:CE2	1:d:623:PRO:HD3	2.54	0.43
1:g:235:LEU:HD22	1:g:238:ARG:NH1	2.34	0.43
1:g:477:ASN:ND2	1:h:357:GLY:O	2.52	0.43
1:g:734:ARG:HG2	1:g:735:ASN:N	2.33	0.43
1:h:466:ALA:HB1	1:h:474:GLN:HG2	2.00	0.43
1:j:519:ASN:HD22	1:j:519:ASN:HA	1.51	0.43
1:k:242:THR:HG22	1:k:682:GLU:HB3	2.01	0.43
1:k:477:ASN:ND2	1:l:357:GLY:O	2.52	0.43
1:p:239:VAL:HG23	1:p:687:LEU:HD11	2.00	0.43
1:q:239:VAL:HG23	1:q:687:LEU:HD11	2.00	0.43
1:q:380:LEU:HD21	1:s:438:PRO:HB3	2.00	0.43
1:q:503:TRP:HZ3	1:q:517:LEU:HB2	1.84	0.43
1:r:503:TRP:HZ3	1:r:517:LEU:HB2	1.84	0.43
1:r:734:ARG:HG2	1:r:735:ASN:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:622:ILE:HB	1:s:641:LYS:HD2	1.99	0.43
1:t:289:PHE:CE2	1:t:612:VAL:HG13	2.53	0.43
1:t:658:PRO:HB3	1:x:373:MET:HE2	2.00	0.43
1:7:313:LEU:HD13	1:7:683:ILE:HG12	1.99	0.43
1:7:317:LEU:HB2	1:7:411:PHE:HB3	2.00	0.43
1:7:612:VAL:O	1:7:729:THR:OG1	2.36	0.43
1:8:317:LEU:HB2	1:8:411:PHE:HB3	2.00	0.43
1:8:519:ASN:CB	1:8:520:PRO:HD2	2.49	0.43
1:B:519:ASN:HD22	1:B:519:ASN:HA	1.51	0.43
1:C:734:ARG:HG2	1:C:735:ASN:N	2.33	0.43
1:D:477:ASN:ND2	1:N:357:GLY:O	2.52	0.43
1:D:658:PRO:HB3	1:E:373:MET:HE2	2.00	0.43
1:E:235:LEU:HD22	1:E:238:ARG:NH1	2.34	0.43
1:J:235:LEU:HD22	1:J:238:ARG:NH1	2.34	0.43
1:K:367:PHE:CE2	1:K:369:ALA:HB3	2.54	0.43
1:M:503:TRP:HZ3	1:M:517:LEU:HB2	1.84	0.43
1:O:502:ALA:HB2	1:h:450:THR:HG23	2.01	0.43
1:O:511:LEU:HD12	1:h:480:PRO:HB3	2.00	0.43
1:P:734:ARG:HG2	1:P:735:ASN:N	2.33	0.43
1:Q:503:TRP:HZ3	1:Q:517:LEU:HB2	1.84	0.43
1:R:658:PRO:HB3	1:V:373:MET:HE2	2.01	0.43
1:S:235:LEU:HD22	1:S:238:ARG:NH1	2.34	0.43
1:S:317:LEU:HB2	1:S:411:PHE:HB3	2.00	0.43
1:S:407:THR:HG21	1:6:339:THR:HG22	2.01	0.43
1:T:242:THR:HG22	1:T:682:GLU:HB3	2.01	0.43
1:U:287:ASN:O	1:U:618:ILE:N	2.44	0.43
1:V:380:LEU:HD21	1:X:438:PRO:HB3	2.00	0.43
1:V:623:PRO:HD3	1:X:478:TYR:CE2	2.54	0.43
1:W:367:PHE:CE2	1:W:369:ALA:HB3	2.54	0.43
1:X:519:ASN:CB	1:X:520:PRO:HD2	2.49	0.43
1:X:734:ARG:HG2	1:X:735:ASN:N	2.33	0.43
1:Y:235:LEU:HD22	1:Y:238:ARG:NH1	2.34	0.43
1:Z:466:ALA:HB1	1:Z:474:GLN:HG2	2.01	0.43
1:Z:519:ASN:HD22	1:Z:519:ASN:HA	1.51	0.43
1:1:242:THR:HG22	1:1:682:GLU:HB3	2.01	0.43
1:5:357:GLY:O	1:a:477:ASN:ND2	2.52	0.43
1:5:367:PHE:CE2	1:5:369:ALA:HB3	2.54	0.43
1:a:658:PRO:HB3	1:e:373:MET:HE2	2.00	0.43
1:c:503:TRP:HZ3	1:c:517:LEU:HB2	1.84	0.43
1:c:712:GLU:HB3	1:c:724:PRO:HG3	2.00	0.43
1:e:235:LEU:HD22	1:e:238:ARG:NH1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:350:TYR:OH	1:g:643:PRO:O	2.31	0.43
1:g:519:ASN:CB	1:g:520:PRO:HD2	2.49	0.43
1:h:317:LEU:HB2	1:h:411:PHE:HB3	2.00	0.43
1:j:367:PHE:CE2	1:j:369:ALA:HB3	2.53	0.43
1:l:235:LEU:HD22	1:l:238:ARG:NH1	2.34	0.43
1:l:367:PHE:CE2	1:l:369:ALA:HB3	2.53	0.43
1:l:478:TYR:CE2	1:m:623:PRO:HD3	2.54	0.43
1:m:235:LEU:HD22	1:m:238:ARG:NH1	2.34	0.43
1:m:287:ASN:O	1:m:618:ILE:N	2.44	0.43
1:n:235:LEU:HD22	1:n:238:ARG:NH1	2.34	0.43
1:n:519:ASN:CB	1:n:520:PRO:HD2	2.49	0.43
1:n:658:PRO:HB3	1:s:373:MET:HE2	2.00	0.43
1:q:367:PHE:CE2	1:q:369:ALA:HB3	2.54	0.43
1:q:466:ALA:HB1	1:q:474:GLN:HG2	2.01	0.43
1:q:623:PRO:HD3	1:s:478:TYR:CE2	2.54	0.43
1:t:367:PHE:CE2	1:t:369:ALA:HB3	2.54	0.43
1:t:485:ARG:HG2	1:t:486:GLN:N	2.32	0.43
1:u:734:ARG:HG2	1:u:735:ASN:N	2.33	0.43
1:v:317:LEU:HB2	1:v:411:PHE:HB3	2.00	0.43
1:v:699:ILE:HG12	1:x:703:SER:O	2.18	0.43
1:x:466:ALA:HB1	1:x:474:GLN:HG2	2.01	0.43
1:y:285:ASP:O	1:y:363:CYS:HA	2.18	0.43
1:y:485:ARG:HG2	1:y:486:GLN:N	2.32	0.43
1:7:519:ASN:CB	1:7:520:PRO:HD2	2.49	0.43
1:8:367:PHE:CE2	1:8:369:ALA:HB3	2.53	0.43
1:A:285:ASP:O	1:A:363:CYS:HA	2.18	0.42
1:A:367:PHE:CE2	1:A:369:ALA:HB3	2.54	0.42
1:C:367:PHE:CE2	1:C:369:ALA:HB3	2.54	0.42
1:C:477:ASN:ND2	1:2:357:GLY:O	2.52	0.42
1:C:503:TRP:HZ3	1:C:517:LEU:HB2	1.84	0.42
1:F:612:VAL:O	1:F:729:THR:OG1	2.36	0.42
1:G:466:ALA:HB1	1:G:474:GLN:HG2	2.01	0.42
1:G:503:TRP:HZ3	1:G:517:LEU:HB2	1.84	0.42
1:I:519:ASN:CB	1:I:520:PRO:HD2	2.49	0.42
1:J:519:ASN:CB	1:J:520:PRO:HD2	2.49	0.42
1:K:519:ASN:CB	1:K:520:PRO:HD2	2.49	0.42
1:L:431:SER:HA	1:L:568:THR:HB	2.01	0.42
1:L:466:ALA:HB1	1:L:474:GLN:HG2	2.01	0.42
1:M:367:PHE:CE2	1:M:369:ALA:HB3	2.54	0.42
1:M:658:PRO:HB3	1:3:373:MET:HE2	2.00	0.42
1:N:367:PHE:CE2	1:N:369:ALA:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:317:LEU:HB2	1:O:411:PHE:HB3	2.00	0.42
1:O:391:ARG:HG3	1:6:705:TYR:CE1	2.54	0.42
1:O:519:ASN:CB	1:O:520:PRO:HD2	2.49	0.42
1:R:380:LEU:HD21	1:U:438:PRO:HB3	2.00	0.42
1:S:242:THR:HG22	1:S:682:GLU:HB3	2.01	0.42
1:U:519:ASN:CB	1:U:520:PRO:HD2	2.49	0.42
1:V:317:LEU:HB2	1:V:411:PHE:HB3	2.00	0.42
1:V:431:SER:HA	1:V:568:THR:HB	2.01	0.42
1:W:235:LEU:HD22	1:W:238:ARG:NH1	2.34	0.42
1:W:503:TRP:HZ3	1:W:517:LEU:HB2	1.84	0.42
1:X:350:TYR:OH	1:X:643:PRO:O	2.31	0.42
1:Z:367:PHE:CE2	1:Z:369:ALA:HB3	2.53	0.42
1:Z:734:ARG:HG2	1:Z:735:ASN:N	2.33	0.42
1:2:317:LEU:HB2	1:2:411:PHE:HB3	2.00	0.42
1:3:317:LEU:HB2	1:3:411:PHE:HB3	2.00	0.42
1:3:478:TYR:CE2	1:i:623:PRO:HD3	2.54	0.42
1:4:235:LEU:HD22	1:4:238:ARG:NH1	2.34	0.42
1:4:519:ASN:CB	1:4:520:PRO:HD2	2.49	0.42
1:6:519:ASN:CB	1:6:520:PRO:HD2	2.49	0.42
1:a:357:GLY:O	1:b:477:ASN:ND2	2.52	0.42
1:c:357:GLY:O	1:e:477:ASN:ND2	2.52	0.42
1:d:242:THR:HG22	1:d:682:GLU:HB3	2.01	0.42
1:d:503:TRP:HZ3	1:d:517:LEU:HB2	1.84	0.42
1:h:431:SER:HA	1:h:568:THR:HB	2.01	0.42
1:h:712:GLU:HB3	1:h:724:PRO:HG3	2.00	0.42
1:i:478:TYR:CE2	1:j:623:PRO:HD3	2.54	0.42
1:j:734:ARG:HG2	1:j:735:ASN:N	2.33	0.42
1:k:612:VAL:O	1:k:729:THR:OG1	2.36	0.42
1:l:734:ARG:HG2	1:l:735:ASN:N	2.33	0.42
1:n:712:GLU:HB3	1:n:724:PRO:HG3	2.00	0.42
1:o:431:SER:HA	1:o:568:THR:HB	2.01	0.42
1:q:285:ASP:O	1:q:363:CYS:HA	2.18	0.42
1:t:503:TRP:HZ3	1:t:517:LEU:HB2	1.84	0.42
1:t:623:PRO:HD3	1:v:478:TYR:CE2	2.54	0.42
1:u:367:PHE:CE2	1:u:369:ALA:HB3	2.54	0.42
1:u:503:TRP:HZ3	1:u:517:LEU:HB2	1.84	0.42
1:y:275:PHE:HB3	1:y:383:ASN:HB3	1.99	0.42
1:y:367:PHE:CE2	1:y:369:ALA:HB3	2.54	0.42
1:y:519:ASN:HD22	1:y:519:ASN:HA	1.51	0.42
1:y:519:ASN:CB	1:y:520:PRO:HD2	2.49	0.42
1:z:242:THR:HG22	1:z:682:GLU:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:317:LEU:HB2	1:B:411:PHE:HB3	2.00	0.42
1:B:367:PHE:CE2	1:B:369:ALA:HB3	2.53	0.42
1:E:219:ASP:N	1:E:408:GLY:O	2.53	0.42
1:F:431:SER:HA	1:F:568:THR:HB	2.01	0.42
1:F:503:TRP:HZ3	1:F:517:LEU:HB2	1.84	0.42
1:G:622:ILE:HB	1:G:641:LYS:HD2	1.99	0.42
1:H:623:PRO:HD3	1:Y:478:TYR:CE2	2.54	0.42
1:I:485:ARG:HG2	1:I:486:GLN:N	2.32	0.42
1:I:622:ILE:HB	1:I:641:LYS:HD2	1.99	0.42
1:M:623:PRO:HD3	1:2:478:TYR:CE2	2.54	0.42
1:N:235:LEU:HD22	1:N:238:ARG:NH1	2.34	0.42
1:O:235:LEU:HD22	1:O:238:ARG:NH1	2.34	0.42
1:O:466:ALA:HB1	1:O:474:GLN:HG2	2.01	0.42
1:Q:373:MET:HE2	1:S:658:PRO:HB3	2.01	0.42
1:R:466:ALA:HB1	1:R:474:GLN:HG2	2.01	0.42
1:S:248:ALA:HB3	1:6:667:LEU:HD11	2.01	0.42
1:T:317:LEU:HB2	1:T:411:PHE:HB3	2.00	0.42
1:W:431:SER:HA	1:W:568:THR:HB	2.02	0.42
1:X:658:PRO:HB3	1:5:373:MET:HE2	2.00	0.42
1:Y:242:THR:HG22	1:Y:682:GLU:HB3	2.01	0.42
1:Y:466:ALA:HB1	1:Y:474:GLN:HG2	2.00	0.42
1:Y:519:ASN:CB	1:Y:520:PRO:HD2	2.49	0.42
1:1:477:ASN:ND2	1:8:357:GLY:O	2.53	0.42
1:4:317:LEU:HB2	1:4:411:PHE:HB3	2.00	0.42
1:4:466:ALA:HB1	1:4:474:GLN:HG2	2.01	0.42
1:5:477:ASN:ND2	1:b:357:GLY:O	2.52	0.42
1:b:734:ARG:HG2	1:b:735:ASN:N	2.33	0.42
1:d:350:TYR:OH	1:d:643:PRO:O	2.31	0.42
1:d:466:ALA:HB1	1:d:474:GLN:HG2	2.01	0.42
1:e:219:ASP:N	1:e:408:GLY:O	2.53	0.42
1:g:219:ASP:N	1:g:408:GLY:O	2.53	0.42
1:g:450:THR:HG23	1:h:502:ALA:HB2	2.01	0.42
1:i:317:LEU:HB2	1:i:411:PHE:HB3	2.00	0.42
1:j:466:ALA:HB1	1:j:474:GLN:HG2	2.01	0.42
1:l:431:SER:HA	1:l:568:THR:HB	2.02	0.42
1:l:503:TRP:HZ3	1:l:517:LEU:HB2	1.84	0.42
1:m:242:THR:HG22	1:m:682:GLU:HB3	2.01	0.42
1:o:466:ALA:HB1	1:o:474:GLN:HG2	2.01	0.42
1:r:466:ALA:HB1	1:r:474:GLN:HG2	2.01	0.42
1:s:519:ASN:CB	1:s:520:PRO:HD2	2.49	0.42
1:u:235:LEU:HD22	1:u:238:ARG:NH1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:477:ASN:ND2	1:v:357:GLY:O	2.52	0.42
1:u:519:ASN:HD22	1:u:519:ASN:HA	1.51	0.42
1:v:242:THR:HG22	1:v:682:GLU:HB3	2.01	0.42
1:w:317:LEU:HB2	1:w:411:PHE:HB3	2.00	0.42
1:w:623:PRO:HD3	1:x:478:TYR:CE2	2.54	0.42
1:z:477:ASN:ND2	1:7:357:GLY:O	2.53	0.42
1:7:367:PHE:CE2	1:7:369:ALA:HB3	2.54	0.42
1:7:503:TRP:HZ3	1:7:517:LEU:HB2	1.84	0.42
1:8:235:LEU:HD22	1:8:238:ARG:NH1	2.34	0.42
1:8:503:TRP:HZ3	1:8:517:LEU:HB2	1.84	0.42
1:8:612:VAL:O	1:8:729:THR:OG1	2.36	0.42
1:A:438:PRO:HB3	1:G:380:LEU:HD21	2.00	0.42
1:A:623:PRO:HD3	1:I:478:TYR:CE2	2.54	0.42
1:B:477:ASN:ND2	1:J:357:GLY:O	2.52	0.42
1:B:712:GLU:HB3	1:B:724:PRO:HG3	2.00	0.42
1:C:235:LEU:HD22	1:C:238:ARG:NH1	2.34	0.42
1:D:357:GLY:O	1:P:477:ASN:ND2	2.53	0.42
1:D:519:ASN:HD22	1:D:519:ASN:HA	1.51	0.42
1:E:477:ASN:ND2	1:Q:357:GLY:O	2.53	0.42
1:E:519:ASN:HD22	1:E:519:ASN:HA	1.51	0.42
1:F:380:LEU:HD21	1:Q:438:PRO:HB3	2.00	0.42
1:F:466:ALA:HB1	1:F:474:GLN:HG2	2.01	0.42
1:H:466:ALA:HB1	1:H:474:GLN:HG2	2.00	0.42
1:J:478:TYR:CE2	1:L:623:PRO:HD3	2.54	0.42
1:L:242:THR:HG22	1:L:682:GLU:HB3	2.01	0.42
1:N:519:ASN:CB	1:N:520:PRO:HD2	2.49	0.42
1:P:219:ASP:N	1:P:408:GLY:O	2.53	0.42
1:Q:519:ASN:CB	1:Q:520:PRO:HD2	2.49	0.42
1:R:357:GLY:O	1:U:477:ASN:ND2	2.53	0.42
1:S:478:TYR:CE2	1:U:623:PRO:HD3	2.54	0.42
1:S:612:VAL:O	1:S:729:THR:OG1	2.36	0.42
1:S:712:GLU:HB3	1:S:724:PRO:HG3	2.00	0.42
1:T:581:ALA:O	1:6:485:ARG:HD2	2.19	0.42
1:T:612:VAL:O	1:T:729:THR:OG1	2.36	0.42
1:V:712:GLU:HB3	1:V:724:PRO:HG3	2.00	0.42
1:W:477:ASN:ND2	1:Y:357:GLY:O	2.52	0.42
1:Z:431:SER:HA	1:Z:568:THR:HB	2.01	0.42
1:Z:623:PRO:HD3	1:w:478:TYR:CE2	2.54	0.42
1:2:699:ILE:HG12	1:3:703:SER:O	2.18	0.42
1:3:219:ASP:N	1:3:408:GLY:O	2.53	0.42
1:3:623:PRO:HD3	1:j:478:TYR:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:219:ASP:N	1:5:408:GLY:O	2.53	0.42
1:5:235:LEU:HD22	1:5:238:ARG:NH1	2.34	0.42
1:a:503:TRP:HZ3	1:a:517:LEU:HB2	1.84	0.42
1:b:219:ASP:N	1:b:408:GLY:O	2.53	0.42
1:f:431:SER:HA	1:f:568:THR:HB	2.01	0.42
1:f:466:ALA:HB1	1:f:474:GLN:HG2	2.00	0.42
1:f:519:ASN:CB	1:f:520:PRO:HD2	2.49	0.42
1:g:567:LYS:HD3	1:h:512:ASN:ND2	2.34	0.42
1:k:235:LEU:HD22	1:k:238:ARG:NH1	2.34	0.42
1:m:519:ASN:CB	1:m:520:PRO:HD2	2.49	0.42
1:n:357:GLY:O	1:p:477:ASN:ND2	2.52	0.42
1:p:317:LEU:HB2	1:p:411:PHE:HB3	2.00	0.42
1:p:367:PHE:CE2	1:p:369:ALA:HB3	2.53	0.42
1:r:367:PHE:CE2	1:r:369:ALA:HB3	2.54	0.42
1:t:242:THR:HG22	1:t:682:GLU:HB3	2.01	0.42
1:C:357:GLY:O	1:M:477:ASN:ND2	2.52	0.42
1:D:478:TYR:CE2	1:N:623:PRO:HD3	2.54	0.42
1:D:503:TRP:HZ3	1:D:517:LEU:HB2	1.84	0.42
1:F:350:TYR:OH	1:F:643:PRO:O	2.31	0.42
1:G:367:PHE:CE2	1:G:369:ALA:HB3	2.54	0.42
1:G:477:ASN:ND2	1:I:357:GLY:O	2.52	0.42
1:H:235:LEU:HD22	1:H:238:ARG:NH1	2.34	0.42
1:J:242:THR:HG22	1:J:682:GLU:HB3	2.01	0.42
1:K:357:GLY:O	1:8:477:ASN:ND2	2.52	0.42
1:M:235:LEU:HD22	1:M:238:ARG:NH1	2.34	0.42
1:M:242:THR:HG22	1:M:682:GLU:HB3	2.01	0.42
1:M:519:ASN:CB	1:M:520:PRO:HD2	2.49	0.42
1:N:219:ASP:N	1:N:408:GLY:O	2.53	0.42
1:N:477:ASN:ND2	1:P:357:GLY:O	2.52	0.42
1:O:219:ASP:N	1:O:408:GLY:O	2.53	0.42
1:R:519:ASN:CB	1:R:520:PRO:HD2	2.49	0.42
1:S:219:ASP:N	1:S:408:GLY:O	2.53	0.42
1:T:712:GLU:HB3	1:T:724:PRO:HG3	2.00	0.42
1:V:357:GLY:O	1:X:477:ASN:ND2	2.52	0.42
1:V:477:ASN:ND2	1:4:357:GLY:O	2.52	0.42
1:X:219:ASP:N	1:X:408:GLY:O	2.53	0.42
1:1:519:ASN:CB	1:1:520:PRO:HD2	2.49	0.42
1:2:242:THR:HG22	1:2:682:GLU:HB3	2.01	0.42
1:3:242:THR:HG22	1:3:682:GLU:HB3	2.01	0.42
1:3:380:LEU:HD21	1:j:438:PRO:HB3	2.00	0.42
1:3:431:SER:HA	1:3:568:THR:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:219:ASP:N	1:4:408:GLY:O	2.53	0.42
1:4:431:SER:HA	1:4:568:THR:HB	2.01	0.42
1:5:519:ASN:CB	1:5:520:PRO:HD2	2.49	0.42
1:6:242:THR:HG22	1:6:682:GLU:HB3	2.01	0.42
1:a:612:VAL:O	1:a:729:THR:OG1	2.36	0.42
1:c:519:ASN:CB	1:c:520:PRO:HD2	2.49	0.42
1:d:431:SER:HA	1:d:568:THR:HB	2.02	0.42
1:d:612:VAL:O	1:d:729:THR:OG1	2.36	0.42
1:e:242:THR:HG22	1:e:682:GLU:HB3	2.01	0.42
1:h:734:ARG:HG2	1:h:735:ASN:N	2.33	0.42
1:i:519:ASN:CB	1:i:520:PRO:HD2	2.49	0.42
1:j:431:SER:HA	1:j:568:THR:HB	2.01	0.42
1:k:350:TYR:OH	1:k:643:PRO:O	2.31	0.42
1:k:519:ASN:CB	1:k:520:PRO:HD2	2.49	0.42
1:k:623:PRO:HD3	1:m:478:TYR:CE2	2.54	0.42
1:l:477:ASN:ND2	1:m:357:GLY:O	2.52	0.42
1:m:466:ALA:HB1	1:m:474:GLN:HG2	2.01	0.42
1:n:478:TYR:CE2	1:o:623:PRO:HD3	2.54	0.42
1:o:242:THR:HG22	1:o:682:GLU:HB3	2.01	0.42
1:p:712:GLU:HB3	1:p:724:PRO:HG3	2.00	0.42
1:q:438:PRO:HB3	1:r:380:LEU:HD21	2.00	0.42
1:q:519:ASN:CB	1:q:520:PRO:HD2	2.49	0.42
1:r:477:ASN:ND2	1:s:357:GLY:O	2.52	0.42
1:r:622:ILE:HB	1:r:641:LYS:HD2	1.99	0.42
1:s:485:ARG:HG2	1:s:486:GLN:N	2.32	0.42
1:t:235:LEU:HD22	1:t:238:ARG:NH1	2.34	0.42
1:t:519:ASN:CB	1:t:520:PRO:HD2	2.49	0.42
1:u:478:TYR:CE2	1:v:623:PRO:HD3	2.54	0.42
1:v:275:PHE:HB3	1:v:383:ASN:HB3	1.99	0.42
1:x:219:ASP:N	1:x:408:GLY:O	2.53	0.42
1:x:317:LEU:HB2	1:x:411:PHE:HB3	2.00	0.42
1:x:503:TRP:HZ3	1:x:517:LEU:HB2	1.84	0.42
1:z:519:ASN:CB	1:z:520:PRO:HD2	2.49	0.42
1:7:235:LEU:HD22	1:7:238:ARG:NH1	2.34	0.42
1:A:373:MET:HE2	1:E:658:PRO:HB3	2.00	0.42
1:B:438:PRO:HB3	1:J:380:LEU:HD21	2.00	0.42
1:C:478:TYR:CE2	1:2:623:PRO:HD3	2.54	0.42
1:D:431:SER:HA	1:D:568:THR:HB	2.02	0.42
1:E:431:SER:HA	1:E:568:THR:HB	2.02	0.42
1:F:219:ASP:N	1:F:408:GLY:O	2.53	0.42
1:F:287:ASN:O	1:F:618:ILE:N	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:357:GLY:O	1:Y:477:ASN:ND2	2.52	0.42
1:J:367:PHE:CE2	1:J:369:ALA:HB3	2.54	0.42
1:K:431:SER:HA	1:K:568:THR:HB	2.01	0.42
1:M:219:ASP:N	1:M:408:GLY:O	2.53	0.42
1:N:442:GLN:O	1:N:465:VAL:HG13	2.20	0.42
1:O:431:SER:HA	1:O:568:THR:HB	2.02	0.42
1:R:431:SER:HA	1:R:568:THR:HB	2.02	0.42
1:T:219:ASP:N	1:T:408:GLY:O	2.53	0.42
1:T:480:PRO:HD3	1:6:509:TRP:CZ3	2.55	0.42
1:U:519:ASN:HD22	1:U:519:ASN:HA	1.51	0.42
1:V:242:THR:HG22	1:V:682:GLU:HB3	2.01	0.42
1:Y:219:ASP:N	1:Y:408:GLY:O	2.53	0.42
1:Y:503:TRP:HZ3	1:Y:517:LEU:HB2	1.84	0.42
1:Z:357:GLY:O	1:w:477:ASN:ND2	2.52	0.42
1:2:275:PHE:HB3	1:2:383:ASN:HB3	1.99	0.42
1:3:503:TRP:HZ3	1:3:517:LEU:HB2	1.84	0.42
1:5:442:GLN:O	1:5:465:VAL:HG13	2.20	0.42
1:5:623:PRO:HD3	1:a:478:TYR:CE2	2.54	0.42
1:c:367:PHE:CE2	1:c:369:ALA:HB3	2.54	0.42
1:c:438:PRO:HB3	1:d:380:LEU:HD21	2.00	0.42
1:d:219:ASP:N	1:d:408:GLY:O	2.53	0.42
1:d:287:ASN:O	1:d:618:ILE:N	2.44	0.42
1:j:503:TRP:HZ3	1:j:517:LEU:HB2	1.84	0.42
1:l:466:ALA:HB1	1:l:474:GLN:HG2	2.01	0.42
1:l:612:VAL:O	1:l:729:THR:OG1	2.36	0.42
1:m:219:ASP:N	1:m:408:GLY:O	2.53	0.42
1:p:503:TRP:HZ3	1:p:517:LEU:HB2	1.84	0.42
1:q:431:SER:HA	1:q:568:THR:HB	2.02	0.42
1:t:477:ASN:ND2	1:u:357:GLY:O	2.52	0.42
1:v:519:ASN:CB	1:v:520:PRO:HD2	2.49	0.42
1:w:519:ASN:CB	1:w:520:PRO:HD2	2.49	0.42
1:y:357:GLY:O	1:7:477:ASN:ND2	2.52	0.42
1:8:431:SER:HA	1:8:568:THR:HB	2.02	0.42
1:A:431:SER:HA	1:A:568:THR:HB	2.02	0.42
1:A:519:ASN:CB	1:A:520:PRO:HD2	2.49	0.42
1:B:431:SER:HA	1:B:568:THR:HB	2.02	0.42
1:B:503:TRP:HZ3	1:B:517:LEU:HB2	1.84	0.42
1:C:519:ASN:CB	1:C:520:PRO:HD2	2.49	0.42
1:D:219:ASP:N	1:D:408:GLY:O	2.53	0.42
1:D:442:GLN:O	1:D:465:VAL:HG13	2.20	0.42
1:E:478:TYR:CE2	1:Q:623:PRO:HD3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:543:PHE:O	1:F:559:MET:N	2.32	0.42
1:G:612:VAL:O	1:G:729:THR:OG1	2.36	0.42
1:H:373:MET:HE2	1:I:658:PRO:HB3	2.00	0.42
1:H:519:ASN:CB	1:H:520:PRO:HD2	2.49	0.42
1:K:219:ASP:N	1:K:408:GLY:O	2.53	0.42
1:L:219:ASP:N	1:L:408:GLY:O	2.53	0.42
1:L:285:ASP:O	1:L:363:CYS:HA	2.18	0.42
1:M:519:ASN:HD22	1:M:519:ASN:HA	1.51	0.42
1:N:317:LEU:HB2	1:N:411:PHE:HB3	2.00	0.42
1:O:511:LEU:HD11	1:h:568:THR:O	2.19	0.42
1:O:519:ASN:CB	1:h:475:GLY:HA2	2.50	0.42
1:O:590:GLN:HA	1:g:497:ASN:ND2	2.34	0.42
1:P:612:VAL:O	1:P:729:THR:OG1	2.36	0.42
1:Q:367:PHE:CE2	1:Q:369:ALA:HB3	2.54	0.42
1:R:734:ARG:HG2	1:R:735:ASN:N	2.33	0.42
1:U:242:THR:HG22	1:U:682:GLU:HB3	2.01	0.42
1:V:219:ASP:N	1:V:408:GLY:O	2.53	0.42
1:V:734:ARG:HG2	1:V:735:ASN:N	2.33	0.42
1:W:442:GLN:O	1:W:465:VAL:HG13	2.20	0.42
1:W:466:ALA:HB1	1:W:474:GLN:HG2	2.01	0.42
1:X:503:TRP:HZ3	1:X:517:LEU:HB2	1.84	0.42
1:Y:442:GLN:O	1:Y:465:VAL:HG13	2.20	0.42
1:Z:438:PRO:HB3	1:x:380:LEU:HD21	2.00	0.42
1:Z:478:TYR:CE2	1:x:623:PRO:HD3	2.54	0.42
1:2:373:MET:HE2	1:i:658:PRO:HB3	2.00	0.42
1:2:519:ASN:CB	1:2:520:PRO:HD2	2.49	0.42
1:3:442:GLN:O	1:3:465:VAL:HG13	2.20	0.42
1:a:431:SER:HA	1:a:568:THR:HB	2.02	0.42
1:a:442:GLN:O	1:a:465:VAL:HG13	2.20	0.42
1:c:623:PRO:HD3	1:e:478:TYR:CE2	2.54	0.42
1:e:431:SER:HA	1:e:568:THR:HB	2.02	0.42
1:e:503:TRP:HZ3	1:e:517:LEU:HB2	1.84	0.42
1:g:503:TRP:HZ3	1:g:517:LEU:HB2	1.84	0.42
1:h:219:ASP:N	1:h:408:GLY:O	2.53	0.42
1:i:219:ASP:N	1:i:408:GLY:O	2.53	0.42
1:i:477:ASN:ND2	1:j:357:GLY:O	2.53	0.42
1:j:442:GLN:O	1:j:465:VAL:HG13	2.20	0.42
1:k:357:GLY:O	1:m:477:ASN:ND2	2.53	0.42
1:k:466:ALA:HB1	1:k:474:GLN:HG2	2.01	0.42
1:l:442:GLN:O	1:l:465:VAL:HG13	2.20	0.42
1:l:519:ASN:CB	1:l:520:PRO:HD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:442:GLN:O	1:m:465:VAL:HG13	2.20	0.42
1:n:242:THR:HG22	1:n:682:GLU:HB3	2.01	0.42
1:n:367:PHE:CE2	1:n:369:ALA:HB3	2.54	0.42
1:o:219:ASP:N	1:o:408:GLY:O	2.53	0.42
1:o:519:ASN:CB	1:o:520:PRO:HD2	2.49	0.42
1:p:431:SER:HA	1:p:568:THR:HB	2.02	0.42
1:r:219:ASP:N	1:r:408:GLY:O	2.53	0.42
1:t:219:ASP:N	1:t:408:GLY:O	2.53	0.42
1:u:519:ASN:CB	1:u:520:PRO:HD2	2.49	0.42
1:v:373:MET:HE2	1:w:658:PRO:HB3	2.00	0.42
1:w:219:ASP:N	1:w:408:GLY:O	2.53	0.42
1:x:242:THR:HG22	1:x:682:GLU:HB3	2.01	0.42
1:x:431:SER:HA	1:x:568:THR:HB	2.02	0.42
1:x:442:GLN:O	1:x:465:VAL:HG13	2.20	0.42
1:y:219:ASP:N	1:y:408:GLY:O	2.53	0.42
1:7:431:SER:HA	1:7:568:THR:HB	2.02	0.42
1:A:235:LEU:HD22	1:A:238:ARG:NH1	2.34	0.42
1:A:242:THR:HG22	1:A:682:GLU:HB3	2.01	0.42
1:C:658:PRO:HB3	1:D:373:MET:HE2	2.01	0.42
1:D:612:VAL:O	1:D:729:THR:OG1	2.36	0.42
1:E:242:THR:HG22	1:E:682:GLU:HB3	2.01	0.42
1:G:219:ASP:N	1:G:408:GLY:O	2.53	0.42
1:H:519:ASN:HD22	1:H:519:ASN:HA	1.51	0.42
1:I:235:LEU:HD22	1:I:238:ARG:NH1	2.34	0.42
1:L:442:GLN:O	1:L:465:VAL:HG13	2.20	0.42
1:N:503:TRP:HZ3	1:N:517:LEU:HB2	1.84	0.42
1:R:623:PRO:HD3	1:U:478:TYR:CE2	2.54	0.42
1:U:373:MET:HE2	1:4:658:PRO:HB3	2.02	0.42
1:V:612:VAL:O	1:V:729:THR:OG1	2.36	0.42
1:W:242:THR:HG22	1:W:682:GLU:HB3	2.01	0.42
1:W:519:ASN:CB	1:W:520:PRO:HD2	2.49	0.42
1:X:317:LEU:HB2	1:X:411:PHE:HB3	2.00	0.42
1:X:431:SER:HA	1:X:568:THR:HB	2.02	0.42
1:Y:484:TYR:CE2	1:Y:507:SER:HB3	2.55	0.42
1:Z:442:GLN:O	1:Z:465:VAL:HG13	2.20	0.42
1:1:287:ASN:O	1:1:618:ILE:N	2.44	0.42
1:2:612:VAL:O	1:2:729:THR:OG1	2.36	0.42
1:5:317:LEU:HB2	1:5:411:PHE:HB3	2.00	0.42
1:a:219:ASP:N	1:a:408:GLY:O	2.53	0.42
1:a:373:MET:HE2	1:u:658:PRO:HB3	2.01	0.42
1:e:519:ASN:CB	1:e:520:PRO:HD2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:658:PRO:HB3	1:q:373:MET:HE2	2.00	0.42
1:f:734:ARG:HG2	1:f:735:ASN:N	2.33	0.42
1:g:431:SER:HA	1:g:568:THR:HB	2.02	0.42
1:i:242:THR:HG22	1:i:682:GLU:HB3	2.01	0.42
1:i:350:TYR:OH	1:i:643:PRO:O	2.31	0.42
1:l:242:THR:HG22	1:l:682:GLU:HB3	2.01	0.42
1:m:484:TYR:CE2	1:m:507:SER:HB3	2.55	0.42
1:m:503:TRP:HZ3	1:m:517:LEU:HB2	1.84	0.42
1:n:380:LEU:HD21	1:p:438:PRO:HB3	2.00	0.42
1:o:235:LEU:HD22	1:o:238:ARG:NH1	2.34	0.42
1:o:285:ASP:O	1:o:363:CYS:HA	2.18	0.42
1:s:235:LEU:HD22	1:s:238:ARG:NH1	2.34	0.42
1:u:466:ALA:HB1	1:u:474:GLN:HG2	2.01	0.42
1:w:350:TYR:OH	1:w:643:PRO:O	2.31	0.42
1:y:431:SER:HA	1:y:568:THR:HB	2.02	0.42
1:C:466:ALA:HB1	1:C:474:GLN:HG2	2.01	0.42
1:C:519:ASN:HD22	1:C:519:ASN:HA	1.51	0.42
1:E:503:TRP:HZ3	1:E:517:LEU:HB2	1.84	0.42
1:E:519:ASN:CB	1:E:520:PRO:HD2	2.49	0.42
1:F:235:LEU:HD22	1:F:238:ARG:NH1	2.34	0.42
1:F:312:ARG:HD2	1:F:684:GLU:OE1	2.20	0.42
1:H:484:TYR:HE2	1:H:507:SER:HB3	1.85	0.42
1:J:219:ASP:N	1:J:408:GLY:O	2.53	0.42
1:J:373:MET:HE2	1:1:658:PRO:HB3	2.01	0.42
1:J:442:GLN:O	1:J:465:VAL:HG13	2.20	0.42
1:K:438:PRO:HB3	1:1:380:LEU:HD21	2.00	0.42
1:O:484:TYR:CE2	1:O:507:SER:HB3	2.55	0.42
1:P:442:GLN:O	1:P:465:VAL:HG13	2.20	0.42
1:Q:519:ASN:HB3	1:Q:520:PRO:HD2	2.02	0.42
1:R:287:ASN:O	1:R:618:ILE:N	2.44	0.42
1:S:442:GLN:O	1:S:465:VAL:HG13	2.20	0.42
1:T:442:GLN:O	1:T:465:VAL:HG13	2.20	0.42
1:U:442:GLN:O	1:U:465:VAL:HG13	2.20	0.42
1:W:612:VAL:O	1:W:729:THR:OG1	2.36	0.42
1:Y:519:ASN:HB3	1:Y:520:PRO:HD2	2.02	0.42
1:Z:317:LEU:HB2	1:Z:411:PHE:HB3	2.00	0.42
1:Z:503:TRP:HZ3	1:Z:517:LEU:HB2	1.84	0.42
1:Z:519:ASN:CB	1:Z:520:PRO:HD2	2.49	0.42
1:3:312:ARG:HD2	1:3:684:GLU:OE1	2.20	0.42
1:4:373:MET:HE2	1:b:658:PRO:HB3	2.00	0.42
1:4:484:TYR:CE2	1:4:507:SER:HB3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:503:TRP:HZ3	1:6:517:LEU:HB2	1.84	0.42
1:a:242:THR:HG22	1:a:682:GLU:HB3	2.01	0.42
1:a:519:ASN:HD22	1:a:519:ASN:HA	1.51	0.42
1:a:623:PRO:HD3	1:b:478:TYR:CE2	2.54	0.42
1:b:612:VAL:O	1:b:729:THR:OG1	2.36	0.42
1:d:235:LEU:HD22	1:d:238:ARG:NH1	2.34	0.42
1:j:484:TYR:CE2	1:j:507:SER:HB3	2.55	0.42
1:j:519:ASN:CB	1:j:520:PRO:HD2	2.49	0.42
1:k:373:MET:HE2	1:s:658:PRO:HB3	2.01	0.42
1:m:519:ASN:HB3	1:m:520:PRO:HD2	2.02	0.42
1:n:219:ASP:N	1:n:408:GLY:O	2.53	0.42
1:n:442:GLN:O	1:n:465:VAL:HG13	2.20	0.42
1:o:442:GLN:O	1:o:465:VAL:HG13	2.20	0.42
1:q:235:LEU:HD22	1:q:238:ARG:NH1	2.34	0.42
1:r:478:TYR:CE2	1:s:623:PRO:HD3	2.54	0.42
1:w:242:THR:HG22	1:w:682:GLU:HB3	2.01	0.42
1:x:312:ARG:HD2	1:x:684:GLU:OE1	2.20	0.42
1:C:219:ASP:N	1:C:408:GLY:O	2.53	0.42
1:D:242:THR:HG22	1:D:682:GLU:HB3	2.01	0.42
1:D:623:PRO:HD3	1:P:478:TYR:CE2	2.54	0.42
1:E:287:ASN:O	1:E:618:ILE:N	2.44	0.42
1:E:623:PRO:HD3	1:F:478:TYR:CE2	2.54	0.42
1:G:235:LEU:HD22	1:G:238:ARG:NH1	2.34	0.42
1:G:478:TYR:CE2	1:I:623:PRO:HD3	2.54	0.42
1:H:219:ASP:N	1:H:408:GLY:O	2.53	0.42
1:K:242:THR:HG22	1:K:682:GLU:HB3	2.01	0.42
1:K:484:TYR:CE2	1:K:507:SER:HB3	2.55	0.42
1:L:235:LEU:HD22	1:L:238:ARG:NH1	2.34	0.42
1:L:519:ASN:CB	1:L:520:PRO:HD2	2.49	0.42
1:Q:235:LEU:HD22	1:Q:238:ARG:NH1	2.34	0.42
1:T:658:PRO:HB3	1:c:373:MET:HE2	2.02	0.42
1:V:312:ARG:HD2	1:V:684:GLU:OE1	2.20	0.42
1:V:658:PRO:HB3	1:W:373:MET:HE2	2.00	0.42
1:W:484:TYR:CE2	1:W:507:SER:HB3	2.55	0.42
1:X:312:ARG:HD2	1:X:684:GLU:OE1	2.20	0.42
1:X:623:PRO:HD3	1:4:478:TYR:CE2	2.55	0.42
1:Z:477:ASN:ND2	1:x:357:GLY:O	2.52	0.42
1:Z:484:TYR:CE2	1:Z:507:SER:HB3	2.55	0.42
1:1:219:ASP:N	1:1:408:GLY:O	2.53	0.42
1:1:484:TYR:CE2	1:1:507:SER:HB3	2.55	0.42
1:2:431:SER:HA	1:2:568:THR:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:503:TRP:HZ3	1:5:517:LEU:HB2	1.84	0.42
1:b:235:LEU:HD22	1:b:238:ARG:NH1	2.34	0.42
1:b:442:GLN:O	1:b:465:VAL:HG13	2.20	0.42
1:b:484:TYR:HE2	1:b:507:SER:HB3	1.85	0.42
1:c:235:LEU:HD22	1:c:238:ARG:NH1	2.34	0.42
1:d:478:TYR:CE2	1:e:623:PRO:HD3	2.54	0.42
1:e:287:ASN:O	1:e:618:ILE:N	2.44	0.42
1:g:312:ARG:HD2	1:g:684:GLU:OE1	2.20	0.42
1:h:242:THR:HG22	1:h:682:GLU:HB3	2.01	0.42
1:h:312:ARG:HD2	1:h:684:GLU:OE1	2.20	0.42
1:j:219:ASP:N	1:j:408:GLY:O	2.53	0.42
1:j:317:LEU:HB2	1:j:411:PHE:HB3	2.00	0.42
1:n:373:MET:HE2	1:z:658:PRO:HB3	2.01	0.42
1:o:478:TYR:CE2	1:p:623:PRO:HD3	2.55	0.42
1:p:219:ASP:N	1:p:408:GLY:O	2.53	0.42
1:p:235:LEU:HD22	1:p:238:ARG:NH1	2.34	0.42
1:q:242:THR:HG22	1:q:682:GLU:HB3	2.01	0.42
1:q:357:GLY:O	1:s:477:ASN:ND2	2.52	0.42
1:q:519:ASN:HB3	1:q:520:PRO:HD2	2.02	0.42
1:r:235:LEU:HD22	1:r:238:ARG:NH1	2.34	0.42
1:r:242:THR:HG22	1:r:682:GLU:HB3	2.01	0.42
1:u:438:PRO:HB3	1:v:380:LEU:HD21	2.00	0.42
1:v:442:GLN:O	1:v:465:VAL:HG13	2.20	0.42
1:x:235:LEU:HD22	1:x:238:ARG:NH1	2.34	0.42
1:y:484:TYR:CE2	1:y:507:SER:HB3	2.55	0.42
1:y:658:PRO:HB3	1:8:373:MET:HE2	2.01	0.42
1:z:484:TYR:CE2	1:z:507:SER:HB3	2.55	0.42
1:B:219:ASP:N	1:B:408:GLY:O	2.53	0.42
1:B:235:LEU:HD22	1:B:238:ARG:NH1	2.34	0.42
1:B:442:GLN:O	1:B:465:VAL:HG13	2.20	0.42
1:B:623:PRO:HD3	1:L:478:TYR:CE2	2.55	0.42
1:C:438:PRO:HB3	1:2:380:LEU:HD21	2.00	0.42
1:F:442:GLN:O	1:F:465:VAL:HG13	2.20	0.42
1:F:484:TYR:HE2	1:F:507:SER:HB3	1.85	0.42
1:G:242:THR:HG22	1:G:682:GLU:HB3	2.01	0.42
1:G:312:ARG:HD2	1:G:684:GLU:OE1	2.20	0.42
1:G:519:ASN:CB	1:G:520:PRO:HD2	2.49	0.42
1:J:312:ARG:HD2	1:J:684:GLU:OE1	2.20	0.42
1:J:477:ASN:ND2	1:L:357:GLY:O	2.52	0.42
1:J:484:TYR:HE2	1:J:507:SER:HB3	1.85	0.42
1:K:658:PRO:HB3	1:7:373:MET:HE2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:357:GLY:O	1:2:477:ASN:ND2	2.52	0.42
1:O:437:ASN:HB2	1:g:355:VAL:HG11	2.02	0.42
1:O:478:TYR:CE2	1:g:623:PRO:HD3	2.55	0.42
1:P:484:TYR:HE2	1:P:507:SER:HB3	1.85	0.42
1:Q:484:TYR:HE2	1:Q:507:SER:HB3	1.85	0.42
1:R:219:ASP:N	1:R:408:GLY:O	2.53	0.42
1:R:484:TYR:CE2	1:R:507:SER:HB3	2.55	0.42
1:S:373:MET:CE	1:6:659:PRO:HD2	2.50	0.42
1:S:477:ASN:ND2	1:U:357:GLY:O	2.53	0.42
1:S:519:ASN:HB3	1:S:520:PRO:HD2	2.02	0.42
1:U:503:TRP:HZ3	1:U:517:LEU:HB2	1.84	0.42
1:W:219:ASP:N	1:W:408:GLY:O	2.53	0.42
1:Z:219:ASP:N	1:Z:408:GLY:O	2.53	0.42
1:Z:312:ARG:HD2	1:Z:684:GLU:OE1	2.20	0.42
1:1:466:ALA:HB1	1:1:474:GLN:HG2	2.01	0.42
1:2:442:GLN:O	1:2:465:VAL:HG13	2.20	0.42
1:2:484:TYR:CE2	1:2:507:SER:HB3	2.55	0.42
1:3:235:LEU:HD22	1:3:238:ARG:NH1	2.34	0.42
1:3:357:GLY:O	1:j:477:ASN:ND2	2.52	0.42
1:6:219:ASP:N	1:6:408:GLY:O	2.53	0.42
1:6:442:GLN:O	1:6:465:VAL:HG13	2.20	0.42
1:b:519:ASN:CB	1:b:520:PRO:HD2	2.49	0.42
1:c:442:GLN:O	1:c:465:VAL:HG13	2.20	0.42
1:c:484:TYR:HE2	1:c:507:SER:HB3	1.85	0.42
1:c:519:ASN:HB3	1:c:520:PRO:HD2	2.02	0.42
1:d:312:ARG:HD2	1:d:684:GLU:OE1	2.20	0.42
1:d:484:TYR:HE2	1:d:507:SER:HB3	1.85	0.42
1:e:519:ASN:HB3	1:e:520:PRO:HD2	2.02	0.42
1:e:519:ASN:HD22	1:e:519:ASN:HA	1.51	0.42
1:f:219:ASP:N	1:f:408:GLY:O	2.53	0.42
1:g:317:LEU:HB2	1:g:411:PHE:HB3	2.00	0.42
1:j:312:ARG:HD2	1:j:684:GLU:OE1	2.20	0.42
1:k:219:ASP:N	1:k:408:GLY:O	2.53	0.42
1:k:484:TYR:HE2	1:k:507:SER:HB3	1.85	0.42
1:l:484:TYR:CE2	1:l:507:SER:HB3	2.55	0.42
1:n:312:ARG:HD2	1:n:684:GLU:OE1	2.20	0.42
1:p:442:GLN:O	1:p:465:VAL:HG13	2.20	0.42
1:r:312:ARG:HD2	1:r:684:GLU:OE1	2.20	0.42
1:r:484:TYR:CE2	1:r:507:SER:HB3	2.55	0.42
1:r:519:ASN:CB	1:r:520:PRO:HD2	2.49	0.42
1:u:219:ASP:N	1:u:408:GLY:O	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:312:ARG:HD2	1:u:684:GLU:OE1	2.20	0.42
1:v:431:SER:HA	1:v:568:THR:HB	2.02	0.42
1:y:438:PRO:HB3	1:z:380:LEU:HD21	2.00	0.42
1:z:219:ASP:N	1:z:408:GLY:O	2.53	0.42
1:z:287:ASN:O	1:z:618:ILE:N	2.44	0.42
1:z:431:SER:HA	1:z:568:THR:HB	2.02	0.42
1:z:466:ALA:HB1	1:z:474:GLN:HG2	2.01	0.42
1:7:219:ASP:N	1:7:408:GLY:O	2.53	0.42
1:7:519:ASN:HB3	1:7:520:PRO:HD2	2.02	0.42
1:8:519:ASN:HB3	1:8:520:PRO:HD2	2.02	0.42
1:A:519:ASN:HB3	1:A:520:PRO:HD2	2.02	0.41
1:B:242:THR:HG22	1:B:682:GLU:HB3	2.01	0.41
1:B:484:TYR:CE2	1:B:507:SER:HB3	2.55	0.41
1:B:519:ASN:HB3	1:B:520:PRO:HD2	2.02	0.41
1:C:312:ARG:HD2	1:C:684:GLU:OE1	2.20	0.41
1:C:431:SER:HA	1:C:568:THR:HB	2.02	0.41
1:E:519:ASN:HB3	1:E:520:PRO:HD2	2.02	0.41
1:G:484:TYR:CE2	1:G:507:SER:HB3	2.55	0.41
1:I:466:ALA:HB1	1:I:474:GLN:HG2	2.01	0.41
1:I:503:TRP:HZ3	1:I:517:LEU:HB2	1.84	0.41
1:M:484:TYR:HE2	1:M:507:SER:HB3	1.85	0.41
1:O:693:LYS:HG2	1:g:400:PHE:CZ	2.55	0.41
1:P:235:LEU:HD22	1:P:238:ARG:NH1	2.34	0.41
1:P:519:ASN:CB	1:P:520:PRO:HD2	2.49	0.41
1:Q:219:ASP:N	1:Q:408:GLY:O	2.53	0.41
1:S:484:TYR:CE2	1:S:507:SER:HB3	2.55	0.41
1:T:380:LEU:HD21	1:f:438:PRO:HB3	2.01	0.41
1:T:477:ASN:OD1	1:6:635:MET:SD	2.78	0.41
1:T:519:ASN:HB3	1:T:520:PRO:HD2	2.02	0.41
1:V:484:TYR:CE2	1:V:507:SER:HB3	2.55	0.41
1:W:519:ASN:HD22	1:W:519:ASN:HA	1.51	0.41
1:X:357:GLY:O	1:4:477:ASN:ND2	2.53	0.41
1:X:442:GLN:O	1:X:465:VAL:HG13	2.20	0.41
1:1:431:SER:HA	1:1:568:THR:HB	2.02	0.41
1:2:235:LEU:HD22	1:2:238:ARG:NH1	2.34	0.41
1:3:350:TYR:OH	1:3:643:PRO:O	2.31	0.41
1:4:312:ARG:HD2	1:4:684:GLU:OE1	2.20	0.41
1:f:287:ASN:O	1:f:618:ILE:N	2.44	0.41
1:f:484:TYR:CE2	1:f:507:SER:HB3	2.55	0.41
1:g:442:GLN:O	1:g:465:VAL:HG13	2.20	0.41
1:h:662:PHE:CD1	1:l:375:PRO:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:503:TRP:HZ3	1:k:517:LEU:HB2	1.84	0.41
1:n:484:TYR:HE2	1:n:507:SER:HB3	1.85	0.41
1:p:242:THR:HG22	1:p:682:GLU:HB3	2.01	0.41
1:p:484:TYR:CE2	1:p:507:SER:HB3	2.55	0.41
1:s:383:ASN:CG	1:s:514:ARG:HH22	2.28	0.41
1:s:503:TRP:HZ3	1:s:517:LEU:HB2	1.84	0.41
1:v:235:LEU:HD22	1:v:238:ARG:NH1	2.34	0.41
1:v:484:TYR:CE2	1:v:507:SER:HB3	2.55	0.41
1:v:503:TRP:HZ3	1:v:517:LEU:HB2	1.84	0.41
1:w:235:LEU:HD22	1:w:238:ARG:NH1	2.34	0.41
1:y:235:LEU:HD22	1:y:238:ARG:NH1	2.34	0.41
1:y:242:THR:HG22	1:y:682:GLU:HB3	2.01	0.41
1:7:442:GLN:O	1:7:465:VAL:HG13	2.20	0.41
1:8:219:ASP:N	1:8:408:GLY:O	2.53	0.41
1:A:357:GLY:O	1:I:477:ASN:ND2	2.53	0.41
1:A:543:PHE:O	1:A:559:MET:N	2.32	0.41
1:D:235:LEU:HD22	1:D:238:ARG:NH1	2.34	0.41
1:D:383:ASN:CG	1:D:514:ARG:HH22	2.29	0.41
1:D:484:TYR:CE2	1:D:507:SER:HB3	2.55	0.41
1:D:484:TYR:HE2	1:D:507:SER:HB3	1.85	0.41
1:E:357:GLY:O	1:F:477:ASN:ND2	2.53	0.41
1:F:357:GLY:O	1:Q:477:ASN:ND2	2.52	0.41
1:N:699:ILE:HG12	1:O:703:SER:O	2.20	0.41
1:O:312:ARG:HD2	1:O:684:GLU:OE1	2.20	0.41
1:O:519:ASN:HB3	1:O:520:PRO:HD2	2.02	0.41
1:Q:383:ASN:CG	1:Q:514:ARG:HH22	2.29	0.41
1:Q:442:GLN:O	1:Q:465:VAL:HG13	2.20	0.41
1:Q:484:TYR:CE2	1:Q:507:SER:HB3	2.55	0.41
1:S:375:PRO:CA	1:6:662:PHE:CD1	2.99	0.41
1:T:602:LEU:HD22	1:6:522:PRO:HG2	2.02	0.41
1:U:219:ASP:N	1:U:408:GLY:O	2.53	0.41
1:U:431:SER:HA	1:U:568:THR:HB	2.02	0.41
1:2:312:ARG:HD2	1:2:684:GLU:OE1	2.20	0.41
1:5:484:TYR:CE2	1:5:507:SER:HB3	2.55	0.41
1:a:383:ASN:CG	1:a:514:ARG:HH22	2.29	0.41
1:a:484:TYR:CE2	1:a:507:SER:HB3	2.55	0.41
1:a:484:TYR:HE2	1:a:507:SER:HB3	1.85	0.41
1:b:484:TYR:CE2	1:b:507:SER:HB3	2.55	0.41
1:c:219:ASP:N	1:c:408:GLY:O	2.53	0.41
1:c:383:ASN:CG	1:c:514:ARG:HH22	2.29	0.41
1:c:477:ASN:ND2	1:d:357:GLY:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:484:TYR:CE2	1:c:507:SER:HB3	2.55	0.41
1:d:442:GLN:O	1:d:465:VAL:HG13	2.20	0.41
1:d:543:PHE:O	1:d:559:MET:N	2.32	0.41
1:e:442:GLN:O	1:e:465:VAL:HG13	2.20	0.41
1:f:312:ARG:HD2	1:f:684:GLU:OE1	2.20	0.41
1:g:478:TYR:CE2	1:h:623:PRO:HD3	2.55	0.41
1:h:484:TYR:CE2	1:h:507:SER:HB3	2.55	0.41
1:i:235:LEU:HD22	1:i:238:ARG:NH1	2.34	0.41
1:k:519:ASN:HD22	1:k:519:ASN:HA	1.51	0.41
1:l:219:ASP:N	1:l:408:GLY:O	2.53	0.41
1:n:477:ASN:ND2	1:o:357:GLY:O	2.52	0.41
1:p:519:ASN:HB3	1:p:520:PRO:HD2	2.02	0.41
1:r:484:TYR:HE2	1:r:507:SER:HB3	1.85	0.41
1:s:466:ALA:HB1	1:s:474:GLN:HG2	2.01	0.41
1:t:357:GLY:O	1:v:477:ASN:ND2	2.53	0.41
1:t:484:TYR:HE2	1:t:507:SER:HB3	1.85	0.41
1:u:431:SER:HA	1:u:568:THR:HB	2.02	0.41
1:v:312:ARG:HD2	1:v:684:GLU:OE1	2.20	0.41
1:w:484:TYR:HE2	1:w:507:SER:HB3	1.85	0.41
1:x:519:ASN:CB	1:x:520:PRO:HD2	2.49	0.41
1:7:312:ARG:HD2	1:7:684:GLU:OE1	2.20	0.41
1:8:442:GLN:O	1:8:465:VAL:HG13	2.20	0.41
1:8:484:TYR:CE2	1:8:507:SER:HB3	2.55	0.41
1:A:219:ASP:N	1:A:408:GLY:O	2.53	0.41
1:C:286:PHE:HB3	1:C:364:LEU:HD13	2.03	0.41
1:E:442:GLN:O	1:E:465:VAL:HG13	2.20	0.41
1:G:484:TYR:HE2	1:G:507:SER:HB3	1.85	0.41
1:H:503:TRP:HZ3	1:H:517:LEU:HB2	1.84	0.41
1:I:219:ASP:N	1:I:408:GLY:O	2.53	0.41
1:I:383:ASN:CG	1:I:514:ARG:HH22	2.29	0.41
1:I:442:GLN:O	1:I:465:VAL:HG13	2.20	0.41
1:I:484:TYR:CE2	1:I:507:SER:HB3	2.55	0.41
1:K:235:LEU:HD22	1:K:238:ARG:NH1	2.34	0.41
1:M:332:LYS:NZ	1:N:657:ASP:OD2	2.29	0.41
1:M:484:TYR:CE2	1:M:507:SER:HB3	2.55	0.41
1:N:484:TYR:CE2	1:N:507:SER:HB3	2.55	0.41
1:N:484:TYR:HE2	1:N:507:SER:HB3	1.85	0.41
1:P:484:TYR:CE2	1:P:507:SER:HB3	2.55	0.41
1:R:312:ARG:HD2	1:R:684:GLU:OE1	2.20	0.41
1:T:484:TYR:CE2	1:T:507:SER:HB3	2.55	0.41
1:T:502:ALA:HB2	1:f:450:THR:HG23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:484:TYR:HE2	1:1:507:SER:HB3	1.85	0.41
1:1:503:TRP:HZ3	1:1:517:LEU:HB2	1.84	0.41
1:2:503:TRP:HZ3	1:2:517:LEU:HB2	1.84	0.41
1:3:519:ASN:CB	1:3:520:PRO:HD2	2.49	0.41
1:5:484:TYR:HE2	1:5:507:SER:HB3	1.85	0.41
1:6:425:SER:CB	1:6:729:THR:HG22	2.51	0.41
1:6:702:THR:HG22	1:h:700:GLN:H	1.85	0.41
1:a:235:LEU:HD22	1:a:238:ARG:NH1	2.34	0.41
1:b:431:SER:HA	1:b:568:THR:HB	2.02	0.41
1:e:612:VAL:O	1:e:729:THR:OG1	2.36	0.41
1:f:442:GLN:O	1:f:465:VAL:HG13	2.20	0.41
1:i:484:TYR:HE2	1:i:507:SER:HB3	1.85	0.41
1:i:519:ASN:HB3	1:i:520:PRO:HD2	2.02	0.41
1:n:431:SER:HA	1:n:568:THR:HB	2.01	0.41
1:o:519:ASN:HB3	1:o:520:PRO:HD2	2.02	0.41
1:q:442:GLN:O	1:q:465:VAL:HG13	2.20	0.41
1:s:484:TYR:CE2	1:s:507:SER:HB3	2.55	0.41
1:t:484:TYR:CE2	1:t:507:SER:HB3	2.55	0.41
1:u:286:PHE:HB3	1:u:364:LEU:HD13	2.03	0.41
1:v:519:ASN:HB3	1:v:520:PRO:HD2	2.02	0.41
1:w:357:GLY:O	1:x:477:ASN:ND2	2.52	0.41
1:w:519:ASN:HB3	1:w:520:PRO:HD2	2.02	0.41
1:x:484:TYR:CE2	1:x:507:SER:HB3	2.55	0.41
1:z:519:ASN:HB3	1:z:520:PRO:HD2	2.02	0.41
1:D:519:ASN:CB	1:D:520:PRO:HD2	2.49	0.41
1:F:484:TYR:CE2	1:F:507:SER:HB3	2.55	0.41
1:G:442:GLN:O	1:G:465:VAL:HG13	2.20	0.41
1:I:431:SER:HA	1:I:568:THR:HB	2.02	0.41
1:I:484:TYR:HE2	1:I:507:SER:HB3	1.85	0.41
1:I:543:PHE:O	1:I:559:MET:N	2.32	0.41
1:L:503:TRP:HZ3	1:L:517:LEU:HB2	1.84	0.41
1:N:312:ARG:HD2	1:N:684:GLU:OE1	2.20	0.41
1:O:355:VAL:HG11	1:h:437:ASN:HB2	2.03	0.41
1:P:286:PHE:HB3	1:P:364:LEU:HD13	2.03	0.41
1:P:312:ARG:HD2	1:P:684:GLU:OE1	2.20	0.41
1:P:425:SER:CB	1:P:729:THR:HG22	2.51	0.41
1:P:431:SER:HA	1:P:568:THR:HB	2.02	0.41
1:R:286:PHE:HB3	1:R:364:LEU:HD13	2.03	0.41
1:S:425:SER:CB	1:S:729:THR:HG22	2.51	0.41
1:T:425:SER:CB	1:T:729:THR:HG22	2.51	0.41
1:U:425:SER:CB	1:U:729:THR:HG22	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:286:PHE:HB3	1:X:364:LEU:HD13	2.03	0.41
1:X:484:TYR:CE2	1:X:507:SER:HB3	2.55	0.41
1:1:425:SER:CB	1:1:729:THR:HG22	2.51	0.41
1:1:442:GLN:O	1:1:465:VAL:HG13	2.20	0.41
1:2:519:ASN:HB3	1:2:520:PRO:HD2	2.02	0.41
1:3:519:ASN:HB3	1:3:520:PRO:HD2	2.02	0.41
1:5:312:ARG:HD2	1:5:684:GLU:OE1	2.20	0.41
1:6:431:SER:HA	1:6:568:THR:HB	2.02	0.41
1:a:312:ARG:HD2	1:a:684:GLU:OE1	2.20	0.41
1:a:519:ASN:CB	1:a:520:PRO:HD2	2.49	0.41
1:b:312:ARG:HD2	1:b:684:GLU:OE1	2.20	0.41
1:b:383:ASN:CG	1:b:514:ARG:HH22	2.29	0.41
1:b:425:SER:CB	1:b:729:THR:HG22	2.51	0.41
1:d:477:ASN:ND2	1:e:357:GLY:O	2.53	0.41
1:f:286:PHE:HB3	1:f:364:LEU:HD13	2.03	0.41
1:g:484:TYR:CE2	1:g:507:SER:HB3	2.55	0.41
1:i:442:GLN:O	1:i:465:VAL:HG13	2.20	0.41
1:i:503:TRP:HZ3	1:i:517:LEU:HB2	1.84	0.41
1:m:431:SER:HA	1:m:568:THR:HB	2.02	0.41
1:o:484:TYR:HE2	1:o:507:SER:HB3	1.85	0.41
1:o:503:TRP:HZ3	1:o:517:LEU:HB2	1.84	0.41
1:q:219:ASP:N	1:q:408:GLY:O	2.53	0.41
1:q:543:PHE:O	1:q:559:MET:N	2.32	0.41
1:r:442:GLN:O	1:r:465:VAL:HG13	2.20	0.41
1:s:431:SER:HA	1:s:568:THR:HB	2.02	0.41
1:s:484:TYR:HE2	1:s:507:SER:HB3	1.85	0.41
1:t:431:SER:HA	1:t:568:THR:HB	2.02	0.41
1:w:503:TRP:HZ3	1:w:517:LEU:HB2	1.84	0.41
1:x:425:SER:CB	1:x:729:THR:HG22	2.51	0.41
1:x:519:ASN:HB3	1:x:520:PRO:HD2	2.02	0.41
1:y:383:ASN:CG	1:y:514:ARG:HH22	2.28	0.41
1:y:477:ASN:ND2	1:z:357:GLY:O	2.53	0.41
1:z:425:SER:CB	1:z:729:THR:HG22	2.51	0.41
1:z:503:TRP:HZ3	1:z:517:LEU:HB2	1.84	0.41
1:7:484:TYR:CE2	1:7:507:SER:HB3	2.55	0.41
1:A:312:ARG:HD2	1:A:684:GLU:OE1	2.20	0.41
1:A:442:GLN:O	1:A:465:VAL:HG13	2.20	0.41
1:B:357:GLY:O	1:L:477:ASN:ND2	2.53	0.41
1:B:484:TYR:HE2	1:B:507:SER:HB3	1.85	0.41
1:D:519:ASN:HB3	1:D:520:PRO:HD2	2.02	0.41
1:E:425:SER:CB	1:E:729:THR:HG22	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:431:SER:HA	1:J:568:THR:HB	2.02	0.41
1:K:383:ASN:CG	1:K:514:ARG:HH22	2.29	0.41
1:K:477:ASN:ND2	1:1:357:GLY:O	2.52	0.41
1:L:484:TYR:HE2	1:L:507:SER:HB3	1.85	0.41
1:L:519:ASN:HB3	1:L:520:PRO:HD2	2.02	0.41
1:O:425:SER:CB	1:O:729:THR:HG22	2.51	0.41
1:P:503:TRP:HZ3	1:P:517:LEU:HB2	1.84	0.41
1:R:442:GLN:O	1:R:465:VAL:HG13	2.20	0.41
1:R:477:ASN:ND2	1:S:357:GLY:O	2.53	0.41
1:S:287:ASN:O	1:S:618:ILE:N	2.44	0.41
1:S:484:TYR:HE2	1:S:507:SER:HB3	1.85	0.41
1:S:519:ASN:CB	1:S:520:PRO:HD2	2.49	0.41
1:T:480:PRO:CD	1:6:509:TRP:CE3	3.04	0.41
1:T:512:ASN:ND2	1:f:567:LYS:HD3	2.35	0.41
1:U:286:PHE:HB3	1:U:364:LEU:HD13	2.03	0.41
1:U:519:ASN:HB3	1:U:520:PRO:HD2	2.02	0.41
1:V:484:TYR:HE2	1:V:507:SER:HB3	1.85	0.41
1:W:599:GLN:OE1	1:Y:598:ASN:ND2	2.48	0.41
1:X:519:ASN:HB2	1:4:475:GLY:HA2	2.02	0.41
1:Y:431:SER:HA	1:Y:568:THR:HB	2.02	0.41
1:Z:484:TYR:HE2	1:Z:507:SER:HB3	1.85	0.41
1:1:519:ASN:HB3	1:1:520:PRO:HD2	2.02	0.41
1:2:286:PHE:HB3	1:2:364:LEU:HD13	2.03	0.41
1:2:484:TYR:HE2	1:2:507:SER:HB3	1.85	0.41
1:3:425:SER:CB	1:3:729:THR:HG22	2.51	0.41
1:3:477:ASN:ND2	1:i:357:GLY:O	2.53	0.41
1:3:484:TYR:CE2	1:3:507:SER:HB3	2.55	0.41
1:4:418:GLU:O	1:4:420:VAL:HG23	2.21	0.41
1:4:519:ASN:HB3	1:4:520:PRO:HD2	2.02	0.41
1:6:567:LYS:HD3	1:f:512:ASN:ND2	2.35	0.41
1:b:286:PHE:HB3	1:b:364:LEU:HD13	2.03	0.41
1:c:418:GLU:O	1:c:420:VAL:HG23	2.21	0.41
1:d:484:TYR:CE2	1:d:507:SER:HB3	2.55	0.41
1:g:286:PHE:HB3	1:g:364:LEU:HD13	2.03	0.41
1:h:484:TYR:HE2	1:h:507:SER:HB3	1.85	0.41
1:o:350:TYR:OH	1:o:643:PRO:O	2.31	0.41
1:o:477:ASN:ND2	1:p:357:GLY:O	2.53	0.41
1:q:312:ARG:HD2	1:q:684:GLU:OE1	2.20	0.41
1:q:477:ASN:ND2	1:r:357:GLY:O	2.53	0.41
1:s:219:ASP:N	1:s:408:GLY:O	2.53	0.41
1:s:442:GLN:O	1:s:465:VAL:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:286:PHE:HB3	1:v:364:LEU:HD13	2.03	0.41
1:v:484:TYR:HE2	1:v:507:SER:HB3	1.85	0.41
1:x:350:TYR:OH	1:x:643:PRO:O	2.31	0.41
1:z:442:GLN:O	1:z:465:VAL:HG13	2.20	0.41
1:z:484:TYR:HE2	1:z:507:SER:HB3	1.85	0.41
1:7:350:TYR:OH	1:7:643:PRO:O	2.31	0.41
1:8:286:PHE:HB3	1:8:364:LEU:HD13	2.03	0.41
1:8:312:ARG:HD2	1:8:684:GLU:OE1	2.20	0.41
1:A:484:TYR:CE2	1:A:507:SER:HB3	2.55	0.41
1:B:519:ASN:CB	1:B:520:PRO:HD2	2.49	0.41
1:D:312:ARG:HD2	1:D:684:GLU:OE1	2.20	0.41
1:E:484:TYR:CE2	1:E:507:SER:HB3	2.55	0.41
1:F:519:ASN:CB	1:F:520:PRO:HD2	2.49	0.41
1:J:286:PHE:HB3	1:J:364:LEU:HD13	2.03	0.41
1:K:373:MET:HE2	1:L:658:PRO:HB3	2.02	0.41
1:L:286:PHE:HB3	1:L:364:LEU:HD13	2.03	0.41
1:M:431:SER:HA	1:M:568:THR:HB	2.02	0.41
1:N:418:GLU:O	1:N:420:VAL:HG23	2.21	0.41
1:N:425:SER:CB	1:N:729:THR:HG22	2.51	0.41
1:O:418:GLU:O	1:O:420:VAL:HG23	2.21	0.41
1:O:503:TRP:HZ3	1:O:517:LEU:HB2	1.84	0.41
1:P:362:GLY:HA2	1:Q:662:PHE:CZ	2.56	0.41
1:Q:418:GLU:O	1:Q:420:VAL:HG23	2.21	0.41
1:Q:431:SER:HA	1:Q:568:THR:HB	2.02	0.41
1:R:484:TYR:HE2	1:R:507:SER:HB3	1.85	0.41
1:T:287:ASN:O	1:T:618:ILE:N	2.44	0.41
1:T:484:TYR:HE2	1:T:507:SER:HB3	1.85	0.41
1:T:519:ASN:CB	1:T:520:PRO:HD2	2.49	0.41
1:U:312:ARG:HD2	1:U:684:GLU:OE1	2.20	0.41
1:W:286:PHE:HB3	1:W:364:LEU:HD13	2.03	0.41
1:W:425:SER:CB	1:W:729:THR:HG22	2.51	0.41
1:1:235:LEU:HD22	1:1:238:ARG:NH1	2.34	0.41
1:2:418:GLU:O	1:2:420:VAL:HG23	2.21	0.41
1:4:425:SER:CB	1:4:729:THR:HG22	2.51	0.41
1:5:418:GLU:O	1:5:420:VAL:HG23	2.21	0.41
1:5:425:SER:CB	1:5:729:THR:HG22	2.51	0.41
1:6:286:PHE:HB3	1:6:364:LEU:HD13	2.03	0.41
1:6:312:ARG:HD2	1:6:684:GLU:OE1	2.20	0.41
1:6:519:ASN:HB3	1:6:520:PRO:HD2	2.02	0.41
1:6:702:THR:HG22	1:h:700:GLN:N	2.36	0.41
1:a:519:ASN:HB3	1:a:520:PRO:HD2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:362:GLY:HA2	1:c:662:PHE:CZ	2.56	0.41
1:b:503:TRP:HZ3	1:b:517:LEU:HB2	1.84	0.41
1:e:425:SER:CB	1:e:729:THR:HG22	2.51	0.41
1:e:484:TYR:CE2	1:e:507:SER:HB3	2.55	0.41
1:f:484:TYR:HE2	1:f:507:SER:HB3	1.85	0.41
1:g:475:GLY:HA2	1:h:519:ASN:HB2	2.03	0.41
1:j:484:TYR:HE2	1:j:507:SER:HB3	1.85	0.41
1:l:519:ASN:HD22	1:l:519:ASN:HA	1.51	0.41
1:l:662:PHE:CZ	1:r:362:GLY:HA2	2.56	0.41
1:n:286:PHE:HB3	1:n:364:LEU:HD13	2.03	0.41
1:o:286:PHE:HB3	1:o:364:LEU:HD13	2.03	0.41
1:o:658:PRO:HB3	1:y:373:MET:HE2	2.02	0.41
1:p:519:ASN:CB	1:p:520:PRO:HD2	2.49	0.41
1:q:484:TYR:HE2	1:q:507:SER:HB3	1.85	0.41
1:q:484:TYR:CE2	1:q:507:SER:HB3	2.55	0.41
1:r:431:SER:HA	1:r:568:THR:HB	2.01	0.41
1:u:442:GLN:O	1:u:465:VAL:HG13	2.20	0.41
1:v:418:GLU:O	1:v:420:VAL:HG23	2.21	0.41
1:w:442:GLN:O	1:w:465:VAL:HG13	2.20	0.41
1:z:235:LEU:HD22	1:z:238:ARG:NH1	2.34	0.41
1:z:418:GLU:O	1:z:420:VAL:HG23	2.21	0.41
1:7:286:PHE:HB3	1:7:364:LEU:HD13	2.03	0.41
1:7:425:SER:CB	1:7:729:THR:HG22	2.51	0.41
1:8:425:SER:CB	1:8:729:THR:HG22	2.51	0.41
1:A:484:TYR:HE2	1:A:507:SER:HB3	1.85	0.41
1:C:442:GLN:O	1:C:465:VAL:HG13	2.20	0.41
1:C:484:TYR:CE2	1:C:507:SER:HB3	2.55	0.41
1:C:610:ARG:NH1	1:C:634:LEU:O	2.54	0.41
1:G:287:ASN:O	1:G:618:ILE:N	2.44	0.41
1:G:362:GLY:HA2	1:W:662:PHE:CZ	2.56	0.41
1:G:431:SER:HA	1:G:568:THR:HB	2.02	0.41
1:H:312:ARG:HD2	1:H:684:GLU:OE1	2.20	0.41
1:H:484:TYR:CE2	1:H:507:SER:HB3	2.55	0.41
1:J:484:TYR:CE2	1:J:507:SER:HB3	2.55	0.41
1:J:503:TRP:HZ3	1:J:517:LEU:HB2	1.84	0.41
1:L:350:TYR:OH	1:L:643:PRO:O	2.31	0.41
1:L:418:GLU:O	1:L:420:VAL:HG23	2.21	0.41
1:R:418:GLU:O	1:R:420:VAL:HG23	2.21	0.41
1:S:383:ASN:CG	1:S:514:ARG:HH22	2.29	0.41
1:S:503:TRP:HZ3	1:S:517:LEU:HB2	1.84	0.41
1:Z:383:ASN:CG	1:Z:514:ARG:HH22	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:418:GLU:O	1:1:420:VAL:HG23	2.21	0.41
1:2:219:ASP:N	1:2:408:GLY:O	2.53	0.41
1:2:425:SER:CB	1:2:729:THR:HG22	2.51	0.41
1:b:242:THR:HG22	1:b:682:GLU:HB3	2.01	0.41
1:d:286:PHE:HB3	1:d:364:LEU:HD13	2.03	0.41
1:f:503:TRP:HZ3	1:f:517:LEU:HB2	1.84	0.41
1:f:612:VAL:O	1:f:729:THR:OG1	2.36	0.41
1:h:235:LEU:HD22	1:h:238:ARG:NH1	2.34	0.41
1:h:425:SER:CB	1:h:729:THR:HG22	2.51	0.41
1:h:442:GLN:O	1:h:465:VAL:HG13	2.20	0.41
1:h:503:TRP:HZ3	1:h:517:LEU:HB2	1.84	0.41
1:h:519:ASN:CB	1:h:520:PRO:HD2	2.49	0.41
1:j:425:SER:CB	1:j:729:THR:HG22	2.51	0.41
1:j:662:PHE:CZ	1:z:362:GLY:HA2	2.56	0.41
1:k:484:TYR:CE2	1:k:507:SER:HB3	2.55	0.41
1:l:286:PHE:HB3	1:l:364:LEU:HD13	2.03	0.41
1:l:425:SER:CB	1:l:729:THR:HG22	2.51	0.41
1:m:312:ARG:HD2	1:m:684:GLU:OE1	2.20	0.41
1:n:418:GLU:O	1:n:420:VAL:HG23	2.21	0.41
1:n:484:TYR:CE2	1:n:507:SER:HB3	2.55	0.41
1:n:503:TRP:HZ3	1:n:517:LEU:HB2	1.84	0.41
1:o:418:GLU:O	1:o:420:VAL:HG23	2.21	0.41
1:p:312:ARG:HD2	1:p:684:GLU:OE1	2.20	0.41
1:p:484:TYR:HE2	1:p:507:SER:HB3	1.85	0.41
1:s:312:ARG:HD2	1:s:684:GLU:OE1	2.20	0.41
1:v:219:ASP:N	1:v:408:GLY:O	2.53	0.41
1:v:383:ASN:CG	1:v:514:ARG:HH22	2.29	0.41
1:v:425:SER:CB	1:v:729:THR:HG22	2.51	0.41
1:w:484:TYR:CE2	1:w:507:SER:HB3	2.55	0.41
1:x:286:PHE:HB3	1:x:364:LEU:HD13	2.03	0.41
1:A:418:GLU:O	1:A:420:VAL:HG23	2.21	0.41
1:B:312:ARG:HD2	1:B:684:GLU:OE1	2.20	0.41
1:F:286:PHE:HB3	1:F:364:LEU:HD13	2.03	0.41
1:G:610:ARG:NH1	1:G:634:LEU:O	2.54	0.41
1:H:442:GLN:O	1:H:465:VAL:HG13	2.20	0.41
1:H:462:LYS:HB3	1:W:552:ASN:HA	2.03	0.41
1:I:286:PHE:HB3	1:I:364:LEU:HD13	2.03	0.41
1:J:418:GLU:O	1:J:420:VAL:HG23	2.21	0.41
1:M:610:ARG:NH1	1:M:634:LEU:O	2.54	0.41
1:O:601:ILE:HB	1:h:601:ILE:CG2	2.47	0.41
1:P:242:THR:HG22	1:P:682:GLU:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:612:VAL:O	1:R:729:THR:OG1	2.36	0.41
1:T:503:TRP:HZ3	1:T:517:LEU:HB2	1.84	0.41
1:U:484:TYR:HE2	1:U:507:SER:HB3	1.85	0.41
1:V:425:SER:CB	1:V:729:THR:HG22	2.51	0.41
1:V:442:GLN:O	1:V:465:VAL:HG13	2.20	0.41
1:W:418:GLU:O	1:W:420:VAL:HG23	2.21	0.41
1:W:484:TYR:HE2	1:W:507:SER:HB3	1.85	0.41
1:Y:286:PHE:HB3	1:Y:364:LEU:HD13	2.03	0.41
1:Y:312:ARG:HD2	1:Y:684:GLU:OE1	2.20	0.41
1:Z:425:SER:CB	1:Z:729:THR:HG22	2.51	0.41
1:Z:662:PHE:CZ	1:1:362:GLY:HA2	2.56	0.41
1:2:383:ASN:CG	1:2:514:ARG:HH22	2.29	0.41
1:3:286:PHE:HB3	1:3:364:LEU:HD13	2.03	0.41
1:4:503:TRP:HZ3	1:4:517:LEU:HB2	1.84	0.41
1:a:286:PHE:HB3	1:a:364:LEU:HD13	2.03	0.41
1:b:519:ASN:HB3	1:b:520:PRO:HD2	2.02	0.41
1:c:312:ARG:HD2	1:c:684:GLU:OE1	2.20	0.41
1:c:431:SER:HA	1:c:568:THR:HB	2.02	0.41
1:d:519:ASN:CB	1:d:520:PRO:HD2	2.49	0.41
1:i:418:GLU:O	1:i:420:VAL:HG23	2.21	0.41
1:i:431:SER:HA	1:i:568:THR:HB	2.02	0.41
1:j:383:ASN:CG	1:j:514:ARG:HH22	2.29	0.41
1:k:312:ARG:HD2	1:k:684:GLU:OE1	2.20	0.41
1:m:286:PHE:HB3	1:m:364:LEU:HD13	2.03	0.41
1:o:383:ASN:CG	1:o:514:ARG:HH22	2.29	0.41
1:q:418:GLU:O	1:q:420:VAL:HG23	2.21	0.41
1:q:425:SER:CB	1:q:729:THR:HG22	2.51	0.41
1:r:350:TYR:OH	1:r:643:PRO:O	2.31	0.41
1:r:610:ARG:NH1	1:r:634:LEU:O	2.54	0.41
1:s:286:PHE:HB3	1:s:364:LEU:HD13	2.03	0.41
1:s:425:SER:CB	1:s:729:THR:HG22	2.51	0.41
1:t:435:LEU:HD23	1:t:435:LEU:HA	1.94	0.41
1:t:610:ARG:NH1	1:t:634:LEU:O	2.54	0.41
1:u:519:ASN:HB3	1:u:520:PRO:HD2	2.02	0.41
1:w:431:SER:HA	1:w:568:THR:HB	2.02	0.41
1:y:612:VAL:O	1:y:729:THR:OG1	2.36	0.41
1:8:350:TYR:OH	1:8:643:PRO:O	2.31	0.41
1:A:286:PHE:HB3	1:A:364:LEU:HD13	2.03	0.41
1:A:425:SER:CB	1:A:729:THR:HG22	2.51	0.41
1:A:477:ASN:ND2	1:G:357:GLY:O	2.53	0.41
1:B:519:ASN:HB2	1:L:475:GLY:HA2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:425:SER:CB	1:C:729:THR:HG22	2.51	0.41
1:C:519:ASN:HB3	1:C:520:PRO:HD2	2.02	0.41
1:D:286:PHE:HB3	1:D:364:LEU:HD13	2.03	0.41
1:D:425:SER:CB	1:D:729:THR:HG22	2.51	0.41
1:E:418:GLU:O	1:E:420:VAL:HG23	2.21	0.41
1:F:418:GLU:O	1:F:420:VAL:HG23	2.21	0.41
1:F:662:PHE:CZ	1:R:362:GLY:HA2	2.56	0.41
1:I:312:ARG:HD2	1:I:684:GLU:OE1	2.20	0.41
1:I:425:SER:CB	1:I:729:THR:HG22	2.51	0.41
1:J:362:GLY:HA2	1:1:662:PHE:CZ	2.56	0.41
1:J:425:SER:CB	1:J:729:THR:HG22	2.51	0.41
1:K:312:ARG:HD2	1:K:684:GLU:OE1	2.20	0.41
1:K:442:GLN:O	1:K:465:VAL:HG13	2.20	0.41
1:K:484:TYR:HE2	1:K:507:SER:HB3	1.85	0.41
1:K:599:GLN:OE1	1:1:598:ASN:ND2	2.48	0.41
1:L:312:ARG:HD2	1:L:684:GLU:OE1	2.20	0.41
1:L:383:ASN:CG	1:L:514:ARG:HH22	2.29	0.41
1:M:383:ASN:CG	1:M:514:ARG:HH22	2.29	0.41
1:M:442:GLN:O	1:M:465:VAL:HG13	2.20	0.41
1:M:519:ASN:HB3	1:M:520:PRO:HD2	2.02	0.41
1:M:612:VAL:O	1:M:729:THR:OG1	2.36	0.41
1:N:431:SER:HA	1:N:568:THR:HB	2.01	0.41
1:O:357:GLY:O	1:h:477:ASN:ND2	2.54	0.41
1:O:442:GLN:O	1:O:465:VAL:HG13	2.20	0.41
1:O:484:TYR:HE2	1:O:507:SER:HB3	1.85	0.41
1:P:519:ASN:HB3	1:P:520:PRO:HD2	2.02	0.41
1:Q:312:ARG:HD2	1:Q:684:GLU:OE1	2.20	0.41
1:Q:425:SER:CB	1:Q:729:THR:HG22	2.51	0.41
1:R:425:SER:CB	1:R:729:THR:HG22	2.51	0.41
1:S:312:ARG:HD2	1:S:684:GLU:OE1	2.20	0.41
1:S:431:SER:HA	1:S:568:THR:HB	2.01	0.41
1:S:674:TYR:CD2	1:6:657:ASP:HA	2.55	0.41
1:T:312:ARG:HD2	1:T:684:GLU:OE1	2.20	0.41
1:U:484:TYR:CE2	1:U:507:SER:HB3	2.55	0.41
1:V:235:LEU:HD22	1:V:238:ARG:NH1	2.34	0.41
1:V:503:TRP:HZ3	1:V:517:LEU:HB2	1.84	0.41
1:V:519:ASN:CB	1:V:520:PRO:HD2	2.49	0.41
1:Z:418:GLU:O	1:Z:420:VAL:HG23	2.21	0.41
1:4:442:GLN:O	1:4:465:VAL:HG13	2.20	0.41
1:5:431:SER:HA	1:5:568:THR:HB	2.02	0.41
1:6:484:TYR:HE2	1:6:507:SER:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:425:SER:CB	1:a:729:THR:HG22	2.51	0.41
1:c:425:SER:CB	1:c:729:THR:HG22	2.51	0.41
1:d:418:GLU:O	1:d:420:VAL:HG23	2.21	0.41
1:e:312:ARG:HD2	1:e:684:GLU:OE1	2.20	0.41
1:e:418:GLU:O	1:e:420:VAL:HG23	2.21	0.41
1:f:418:GLU:O	1:f:420:VAL:HG23	2.21	0.41
1:f:425:SER:CB	1:f:729:THR:HG22	2.51	0.41
1:g:438:PRO:HB3	1:h:380:LEU:HD21	2.02	0.41
1:g:484:TYR:HE2	1:g:507:SER:HB3	1.85	0.41
1:i:484:TYR:CE2	1:i:507:SER:HB3	2.55	0.41
1:j:418:GLU:O	1:j:420:VAL:HG23	2.21	0.41
1:k:425:SER:CB	1:k:729:THR:HG22	2.51	0.41
1:k:431:SER:HA	1:k:568:THR:HB	2.02	0.41
1:k:442:GLN:O	1:k:465:VAL:HG13	2.20	0.41
1:l:418:GLU:O	1:l:420:VAL:HG23	2.21	0.41
1:l:484:TYR:HE2	1:l:507:SER:HB3	1.85	0.41
1:l:519:ASN:HB3	1:l:520:PRO:HD2	2.02	0.41
1:n:425:SER:CB	1:n:729:THR:HG22	2.51	0.41
1:o:312:ARG:HD2	1:o:684:GLU:OE1	2.20	0.41
1:q:286:PHE:HB3	1:q:364:LEU:HD13	2.03	0.41
1:q:383:ASN:CG	1:q:514:ARG:HH22	2.29	0.41
1:r:287:ASN:O	1:r:618:ILE:N	2.44	0.41
1:r:519:ASN:HB3	1:r:520:PRO:HD2	2.02	0.41
1:s:543:PHE:O	1:s:559:MET:N	2.32	0.41
1:t:312:ARG:HD2	1:t:684:GLU:OE1	2.20	0.41
1:t:383:ASN:CG	1:t:514:ARG:HH22	2.29	0.41
1:t:442:GLN:O	1:t:465:VAL:HG13	2.20	0.41
1:t:519:ASN:HB3	1:t:520:PRO:HD2	2.02	0.41
1:t:612:VAL:O	1:t:729:THR:OG1	2.36	0.41
1:u:425:SER:CB	1:u:729:THR:HG22	2.51	0.41
1:u:484:TYR:CE2	1:u:507:SER:HB3	2.55	0.41
1:w:383:ASN:CG	1:w:514:ARG:HH22	2.29	0.41
1:w:418:GLU:O	1:w:420:VAL:HG23	2.21	0.41
1:x:543:PHE:O	1:x:559:MET:N	2.32	0.41
1:y:312:ARG:HD2	1:y:684:GLU:OE1	2.20	0.41
1:y:442:GLN:O	1:y:465:VAL:HG13	2.20	0.41
1:y:484:TYR:HE2	1:y:507:SER:HB3	1.85	0.41
1:y:503:TRP:HZ3	1:y:517:LEU:HB2	1.84	0.41
1:y:599:GLN:OE1	1:z:598:ASN:ND2	2.48	0.41
1:8:484:TYR:HE2	1:8:507:SER:HB3	1.85	0.41
1:D:662:PHE:CZ	1:E:362:GLY:HA2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:312:ARG:HD2	1:E:684:GLU:OE1	2.20	0.41
1:F:362:GLY:HA2	1:G:662:PHE:CZ	2.56	0.41
1:G:425:SER:CB	1:G:729:THR:HG22	2.51	0.41
1:G:519:ASN:HB3	1:G:520:PRO:HD2	2.02	0.41
1:H:425:SER:CB	1:H:729:THR:HG22	2.51	0.41
1:H:431:SER:HA	1:H:568:THR:HB	2.02	0.41
1:K:503:TRP:HZ3	1:K:517:LEU:HB2	1.84	0.41
1:L:484:TYR:CE2	1:L:507:SER:HB3	2.55	0.41
1:M:312:ARG:HD2	1:M:684:GLU:OE1	2.20	0.41
1:M:435:LEU:HD23	1:M:435:LEU:HA	1.94	0.41
1:O:623:PRO:HD3	1:h:478:TYR:CE2	2.56	0.41
1:R:503:TRP:HZ3	1:R:517:LEU:HB2	1.84	0.41
1:S:462:LYS:HB3	1:U:552:ASN:HA	2.03	0.41
1:T:431:SER:HA	1:T:568:THR:HB	2.02	0.41
1:U:362:GLY:HA2	1:4:662:PHE:CZ	2.56	0.41
1:4:484:TYR:HE2	1:4:507:SER:HB3	1.85	0.41
1:a:662:PHE:CZ	1:e:362:GLY:HA2	2.56	0.41
1:d:425:SER:CB	1:d:729:THR:HG22	2.51	0.41
1:h:658:PRO:HB3	1:l:373:MET:HE2	2.02	0.41
1:i:383:ASN:CG	1:i:514:ARG:HH22	2.29	0.41
1:n:362:GLY:HA2	1:z:662:PHE:CZ	2.56	0.41
1:r:425:SER:CB	1:r:729:THR:HG22	2.51	0.41
1:t:418:GLU:O	1:t:420:VAL:HG23	2.21	0.41
1:w:312:ARG:HD2	1:w:684:GLU:OE1	2.20	0.41
1:w:601:ILE:HB	1:x:601:ILE:CG2	2.50	0.41
1:z:312:ARG:HD2	1:z:684:GLU:OE1	2.20	0.41
1:7:484:TYR:HE2	1:7:507:SER:HB3	1.85	0.41
1:A:383:ASN:CG	1:A:514:ARG:HH22	2.29	0.40
1:B:418:GLU:O	1:B:420:VAL:HG23	2.21	0.40
1:D:418:GLU:O	1:D:420:VAL:HG23	2.21	0.40
1:F:425:SER:CB	1:F:729:THR:HG22	2.51	0.40
1:G:350:TYR:OH	1:G:643:PRO:O	2.31	0.40
1:G:543:PHE:O	1:G:559:MET:N	2.32	0.40
1:K:418:GLU:O	1:K:420:VAL:HG23	2.21	0.40
1:M:418:GLU:O	1:M:420:VAL:HG23	2.21	0.40
1:M:425:SER:CB	1:M:729:THR:HG22	2.51	0.40
1:M:662:PHE:CZ	1:3:362:GLY:HA2	2.56	0.40
1:N:599:GLN:OE1	1:P:598:ASN:ND2	2.48	0.40
1:N:610:ARG:NH1	1:N:634:LEU:O	2.54	0.40
1:O:311:LYS:HA	1:O:311:LYS:HD2	1.95	0.40
1:O:568:THR:O	1:g:511:LEU:HD11	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:362:GLY:CA	1:6:662:PHE:CZ	3.02	0.40
1:V:610:ARG:NH1	1:V:634:LEU:O	2.54	0.40
1:X:484:TYR:HE2	1:X:507:SER:HB3	1.85	0.40
1:X:519:ASN:HB3	1:X:520:PRO:HD2	2.02	0.40
1:1:312:ARG:HD2	1:1:684:GLU:OE1	2.20	0.40
1:3:601:ILE:CG2	1:i:601:ILE:HB	2.50	0.40
1:5:610:ARG:NH1	1:5:634:LEU:O	2.54	0.40
1:6:450:THR:HG23	1:f:502:ALA:HB2	2.03	0.40
1:6:484:TYR:CE2	1:6:507:SER:HB3	2.55	0.40
1:a:418:GLU:O	1:a:420:VAL:HG23	2.21	0.40
1:c:367:PHE:HA	1:c:368:PRO:HD3	1.98	0.40
1:d:362:GLY:HA2	1:r:662:PHE:CZ	2.56	0.40
1:e:484:TYR:HE2	1:e:507:SER:HB3	1.85	0.40
1:g:383:ASN:CG	1:g:514:ARG:HH22	2.29	0.40
1:g:425:SER:CB	1:g:729:THR:HG22	2.51	0.40
1:g:519:ASN:HB3	1:g:520:PRO:HD2	2.02	0.40
1:h:610:ARG:NH1	1:h:634:LEU:O	2.54	0.40
1:i:425:SER:CB	1:i:729:THR:HG22	2.51	0.40
1:k:362:GLY:HA2	1:s:662:PHE:CZ	2.56	0.40
1:k:462:LYS:HB3	1:l:552:ASN:HA	2.03	0.40
1:m:425:SER:CB	1:m:729:THR:HG22	2.51	0.40
1:o:484:TYR:CE2	1:o:507:SER:HB3	2.55	0.40
1:s:519:ASN:HB3	1:s:520:PRO:HD2	2.02	0.40
1:w:425:SER:CB	1:w:729:THR:HG22	2.51	0.40
1:I:519:ASN:HB3	1:I:520:PRO:HD2	2.02	0.40
1:L:425:SER:CB	1:L:729:THR:HG22	2.51	0.40
1:N:383:ASN:CG	1:N:514:ARG:HH22	2.29	0.40
1:T:438:PRO:HB3	1:6:380:LEU:HD21	2.03	0.40
1:W:312:ARG:HD2	1:W:684:GLU:OE1	2.20	0.40
1:X:383:ASN:CG	1:X:514:ARG:HH22	2.29	0.40
1:Y:425:SER:CB	1:Y:729:THR:HG22	2.51	0.40
1:1:311:LYS:HA	1:1:311:LYS:HD2	1.96	0.40
1:1:601:ILE:CG2	1:8:601:ILE:HB	2.50	0.40
1:3:543:PHE:O	1:3:559:MET:N	2.32	0.40
1:i:312:ARG:HD2	1:i:684:GLU:OE1	2.20	0.40
1:j:543:PHE:O	1:j:559:MET:N	2.32	0.40
1:o:475:GLY:HA2	1:p:519:ASN:HB2	2.02	0.40
1:t:425:SER:CB	1:t:729:THR:HG22	2.51	0.40
1:t:662:PHE:CZ	1:x:362:GLY:HA2	2.56	0.40
1:K:519:ASN:HB3	1:K:520:PRO:HD2	2.02	0.40
1:N:286:PHE:HB3	1:N:364:LEU:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:477:ASN:ND2	1:g:357:GLY:O	2.54	0.40
1:P:418:GLU:O	1:P:420:VAL:HG23	2.21	0.40
1:R:662:PHE:CZ	1:V:362:GLY:HA2	2.56	0.40
1:S:676:THR:HG21	1:6:655:PRO:CD	2.48	0.40
1:T:373:MET:HE2	1:U:658:PRO:HB3	2.02	0.40
1:T:480:PRO:HD3	1:6:509:TRP:CE3	2.57	0.40
1:U:383:ASN:CG	1:U:514:ARG:HH22	2.29	0.40
1:V:475:GLY:HA2	1:4:519:ASN:HB2	2.04	0.40
1:W:519:ASN:HB3	1:W:520:PRO:HD2	2.02	0.40
1:X:425:SER:CB	1:X:729:THR:HG22	2.51	0.40
1:Z:306:TRP:O	1:Z:425:SER:N	2.51	0.40
1:3:418:GLU:O	1:3:420:VAL:HG23	2.21	0.40
1:4:311:LYS:HA	1:4:311:LYS:HD2	1.96	0.40
1:4:610:ARG:NH1	1:4:634:LEU:O	2.54	0.40
1:5:286:PHE:HB3	1:5:364:LEU:HD13	2.03	0.40
1:5:383:ASN:CG	1:5:514:ARG:HH22	2.29	0.40
1:5:519:ASN:HB3	1:5:520:PRO:HD2	2.02	0.40
1:6:383:ASN:CG	1:6:514:ARG:HH22	2.29	0.40
1:b:418:GLU:O	1:b:420:VAL:HG23	2.21	0.40
1:d:519:ASN:HB3	1:d:520:PRO:HD2	2.02	0.40
1:g:568:THR:O	1:h:511:LEU:HD11	2.20	0.40
1:h:519:ASN:HB3	1:h:520:PRO:HD2	2.02	0.40
1:k:552:ASN:HA	1:m:462:LYS:HB3	2.04	0.40
1:l:312:ARG:HD2	1:l:684:GLU:OE1	2.20	0.40
1:o:425:SER:CB	1:o:729:THR:HG22	2.51	0.40
1:o:601:ILE:CG2	1:p:601:ILE:HB	2.50	0.40
1:p:418:GLU:O	1:p:420:VAL:HG23	2.21	0.40
1:w:435:LEU:HD23	1:w:435:LEU:HA	1.94	0.40
1:x:418:GLU:O	1:x:420:VAL:HG23	2.21	0.40
1:y:418:GLU:O	1:y:420:VAL:HG23	2.21	0.40
1:A:462:LYS:HB3	1:G:552:ASN:HA	2.04	0.40
1:B:601:ILE:HB	1:L:601:ILE:CG2	2.50	0.40
1:C:367:PHE:HA	1:C:368:PRO:HD3	1.98	0.40
1:C:426:TYR:HA	1:C:732:LEU:O	2.22	0.40
1:D:601:ILE:CG2	1:N:601:ILE:HB	2.50	0.40
1:E:484:TYR:HE2	1:E:507:SER:HB3	1.85	0.40
1:H:362:GLY:HA2	1:I:662:PHE:CZ	2.56	0.40
1:H:552:ASN:HA	1:Y:462:LYS:HB3	2.04	0.40
1:K:462:LYS:HB3	1:1:552:ASN:HA	2.04	0.40
1:M:275:PHE:CZ	1:M:388:ALA:HB2	2.57	0.40
1:N:519:ASN:HB3	1:N:520:PRO:HD2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:286:PHE:HB3	1:Q:364:LEU:HD13	2.03	0.40
1:Q:367:PHE:HA	1:Q:368:PRO:HD3	1.98	0.40
1:Y:484:TYR:HE2	1:Y:507:SER:HB3	1.85	0.40
1:Z:519:ASN:HB2	1:w:475:GLY:HA2	2.04	0.40
1:1:275:PHE:CZ	1:1:388:ALA:HB2	2.57	0.40
1:4:286:PHE:HB3	1:4:364:LEU:HD13	2.03	0.40
1:5:599:GLN:OE1	1:b:598:ASN:ND2	2.48	0.40
1:6:418:GLU:O	1:6:420:VAL:HG23	2.21	0.40
1:c:286:PHE:HB3	1:c:364:LEU:HD13	2.03	0.40
1:g:693:LYS:HG2	1:h:400:PHE:CZ	2.56	0.40
1:i:286:PHE:HB3	1:i:364:LEU:HD13	2.03	0.40
1:i:543:PHE:O	1:i:559:MET:N	2.32	0.40
1:q:462:LYS:HB3	1:r:552:ASN:HA	2.04	0.40
1:u:484:TYR:HE2	1:u:507:SER:HB3	1.85	0.40
1:w:286:PHE:HB3	1:w:364:LEU:HD13	2.03	0.40
1:x:275:PHE:CZ	1:x:388:ALA:HB2	2.57	0.40
1:y:519:ASN:HB3	1:y:520:PRO:HD2	2.02	0.40
1:z:275:PHE:CZ	1:z:388:ALA:HB2	2.57	0.40
1:z:601:ILE:CG2	1:7:601:ILE:HB	2.50	0.40
1:7:275:PHE:CZ	1:7:388:ALA:HB2	2.57	0.40
1:8:275:PHE:CZ	1:8:388:ALA:HB2	2.57	0.40
1:B:425:SER:CB	1:B:729:THR:HG22	2.51	0.40
1:C:484:TYR:HE2	1:C:507:SER:HB3	1.85	0.40
1:C:552:ASN:HA	1:M:462:LYS:HB3	2.03	0.40
1:F:519:ASN:HB3	1:F:520:PRO:HD2	2.02	0.40
1:G:418:GLU:O	1:G:420:VAL:HG23	2.21	0.40
1:H:519:ASN:HB3	1:H:520:PRO:HD2	2.02	0.40
1:J:302:ILE:HD12	1:J:731:TYR:CE2	2.57	0.40
1:K:286:PHE:HB3	1:K:364:LEU:HD13	2.03	0.40
1:L:302:ILE:HD12	1:L:731:TYR:CE2	2.57	0.40
1:O:286:PHE:HB3	1:O:364:LEU:HD13	2.03	0.40
1:O:512:ASN:ND2	1:h:567:LYS:HD3	2.36	0.40
1:O:610:ARG:NH1	1:O:634:LEU:O	2.54	0.40
1:S:368:PRO:HB2	1:6:398:GLU:HB2	2.04	0.40
1:T:662:PHE:CZ	1:c:362:GLY:HA2	2.54	0.40
1:U:418:GLU:O	1:U:420:VAL:HG23	2.21	0.40
1:Z:286:PHE:HB3	1:Z:364:LEU:HD13	2.03	0.40
1:3:275:PHE:CZ	1:3:388:ALA:HB2	2.57	0.40
1:b:275:PHE:CZ	1:b:388:ALA:HB2	2.57	0.40
1:c:699:ILE:HG12	1:f:703:SER:O	2.21	0.40
1:e:275:PHE:CZ	1:e:388:ALA:HB2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:418:GLU:O	1:h:420:VAL:HG23	2.21	0.40
1:i:435:LEU:HD23	1:i:435:LEU:HA	1.94	0.40
1:i:475:GLY:HA2	1:j:519:ASN:HB2	2.04	0.40
1:j:286:PHE:HB3	1:j:364:LEU:HD13	2.03	0.40
1:k:519:ASN:HB3	1:k:520:PRO:HD2	2.02	0.40
1:m:484:TYR:HE2	1:m:507:SER:HB3	1.85	0.40
1:n:612:VAL:O	1:n:729:THR:OG1	2.36	0.40
1:r:418:GLU:O	1:r:420:VAL:HG23	2.21	0.40
1:s:418:GLU:O	1:s:420:VAL:HG23	2.21	0.40
1:t:275:PHE:CZ	1:t:388:ALA:HB2	2.57	0.40
1:t:462:LYS:HB3	1:u:552:ASN:HA	2.03	0.40
1:u:299:GLN:HG2	1:u:303:ASN:ND2	2.37	0.40
1:u:426:TYR:HA	1:u:732:LEU:O	2.22	0.40
1:v:275:PHE:CZ	1:v:388:ALA:HB2	2.57	0.40
1:y:286:PHE:HB3	1:y:364:LEU:HD13	2.03	0.40
1:y:462:LYS:HB3	1:z:552:ASN:HA	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	2	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	3	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	4	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	5	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	6	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	7	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	8	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	A	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	B	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	C	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	D	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	E	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	F	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	G	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	H	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	I	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	J	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	K	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	L	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	M	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	N	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	O	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	P	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	Q	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	R	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	S	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	T	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	U	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	V	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	W	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	X	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	Y	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	Z	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	a	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	b	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	c	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	d	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	e	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	f	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	g	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	h	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	i	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	j	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	k	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	l	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	m	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	n	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	o	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	p	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	q	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	r	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	s	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	t	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	u	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	v	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	w	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	x	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	y	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
1	z	516/518 (100%)	500 (97%)	15 (3%)	1 (0%)	43	65
All	All	30960/31080 (100%)	30000 (97%)	900 (3%)	60 (0%)	44	65

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	520	PRO
1	B	520	PRO
1	C	520	PRO
1	D	520	PRO
1	E	520	PRO
1	F	520	PRO
1	G	520	PRO

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Mol	Chain	Res	Type
1	H	520	PRO
1	I	520	PRO
1	J	520	PRO
1	K	520	PRO
1	L	520	PRO
1	M	520	PRO
1	N	520	PRO
1	O	520	PRO
1	P	520	PRO
1	Q	520	PRO
1	R	520	PRO
1	S	520	PRO
1	T	520	PRO
1	U	520	PRO
1	V	520	PRO
1	W	520	PRO
1	X	520	PRO
1	Y	520	PRO
1	Z	520	PRO
1	1	520	PRO
1	2	520	PRO
1	3	520	PRO
1	4	520	PRO
1	5	520	PRO
1	6	520	PRO
1	a	520	PRO
1	b	520	PRO
1	c	520	PRO
1	d	520	PRO
1	e	520	PRO
1	f	520	PRO
1	g	520	PRO
1	h	520	PRO
1	i	520	PRO
1	j	520	PRO
1	k	520	PRO
1	l	520	PRO
1	m	520	PRO
1	n	520	PRO
1	o	520	PRO
1	p	520	PRO
1	q	520	PRO

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Mol	Chain	Res	Type
1	r	520	PRO
1	s	520	PRO
1	t	520	PRO
1	u	520	PRO
1	v	520	PRO
1	w	520	PRO
1	x	520	PRO
1	y	520	PRO
1	z	520	PRO
1	7	520	PRO
1	8	520	PRO

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	1	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	2	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	3	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	4	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	5	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	6	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	7	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	8	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	A	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	B	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	C	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	D	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	E	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	F	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	G	453/453 (100%)	451 (100%)	2 (0%)	84	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	H	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	I	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	J	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	K	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	L	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	M	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	N	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	O	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	P	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	Q	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	R	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	S	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	T	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	U	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	V	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	W	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	X	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	Y	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	Z	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	a	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	b	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	c	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	d	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	e	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	f	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	g	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	h	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	i	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	j	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	k	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	l	453/453 (100%)	451 (100%)	2 (0%)	84	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	m	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	n	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	o	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	p	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	q	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	r	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	s	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	t	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	u	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	v	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	w	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	x	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	y	453/453 (100%)	451 (100%)	2 (0%)	84	93
1	z	453/453 (100%)	451 (100%)	2 (0%)	84	93
All	All	27180/27180 (100%)	27060 (100%)	120 (0%)	81	93

All (120) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	519	ASN
1	A	736	LEU
1	B	519	ASN
1	B	736	LEU
1	C	519	ASN
1	C	736	LEU
1	D	519	ASN
1	D	736	LEU
1	E	519	ASN
1	E	736	LEU
1	F	519	ASN
1	F	736	LEU
1	G	519	ASN
1	G	736	LEU
1	H	519	ASN
1	H	736	LEU
1	I	519	ASN
1	I	736	LEU

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Mol	Chain	Res	Type
1	J	519	ASN
1	J	736	LEU
1	K	519	ASN
1	K	736	LEU
1	L	519	ASN
1	L	736	LEU
1	M	519	ASN
1	M	736	LEU
1	N	519	ASN
1	N	736	LEU
1	O	519	ASN
1	O	736	LEU
1	P	519	ASN
1	P	736	LEU
1	Q	519	ASN
1	Q	736	LEU
1	R	519	ASN
1	R	736	LEU
1	S	519	ASN
1	S	736	LEU
1	T	519	ASN
1	T	736	LEU
1	U	519	ASN
1	U	736	LEU
1	V	519	ASN
1	V	736	LEU
1	W	519	ASN
1	W	736	LEU
1	X	519	ASN
1	X	736	LEU
1	Y	519	ASN
1	Y	736	LEU
1	Z	519	ASN
1	Z	736	LEU
1	1	519	ASN
1	1	736	LEU
1	2	519	ASN
1	2	736	LEU
1	3	519	ASN
1	3	736	LEU
1	4	519	ASN
1	4	736	LEU

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Mol	Chain	Res	Type
1	5	519	ASN
1	5	736	LEU
1	6	519	ASN
1	6	736	LEU
1	a	519	ASN
1	a	736	LEU
1	b	519	ASN
1	b	736	LEU
1	c	519	ASN
1	c	736	LEU
1	d	519	ASN
1	d	736	LEU
1	e	519	ASN
1	e	736	LEU
1	f	519	ASN
1	f	736	LEU
1	g	519	ASN
1	g	736	LEU
1	h	519	ASN
1	h	736	LEU
1	i	519	ASN
1	i	736	LEU
1	j	519	ASN
1	j	736	LEU
1	k	519	ASN
1	k	736	LEU
1	l	519	ASN
1	l	736	LEU
1	m	519	ASN
1	m	736	LEU
1	n	519	ASN
1	n	736	LEU
1	o	519	ASN
1	o	736	LEU
1	p	519	ASN
1	p	736	LEU
1	q	519	ASN
1	q	736	LEU
1	r	519	ASN
1	r	736	LEU
1	s	519	ASN
1	s	736	LEU

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Mol	Chain	Res	Type
1	t	519	ASN
1	t	736	LEU
1	u	519	ASN
1	u	736	LEU
1	v	519	ASN
1	v	736	LEU
1	w	519	ASN
1	w	736	LEU
1	x	519	ASN
1	x	736	LEU
1	y	519	ASN
1	y	736	LEU
1	z	519	ASN
1	z	736	LEU
1	7	519	ASN
1	7	736	LEU
1	8	519	ASN
1	8	736	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (983) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	233	GLN
1	A	255	HIS
1	A	259	GLN
1	A	272	ASN
1	A	336	ASN
1	A	376	GLN
1	A	470	ASN
1	A	519	ASN
1	A	527	HIS
1	A	579	GLN
1	A	584	HIS
1	A	608	GLN
1	A	624	HIS
1	A	646	GLN
1	A	673	GLN
1	A	700	GLN
1	B	233	GLN
1	B	255	HIS
1	B	259	GLN
1	B	272	ASN

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Mol	Chain	Res	Type
1	B	336	ASN
1	B	351	GLN
1	B	376	GLN
1	B	470	ASN
1	B	519	ASN
1	B	579	GLN
1	B	584	HIS
1	B	624	HIS
1	B	646	GLN
1	B	673	GLN
1	B	700	GLN
1	C	233	GLN
1	C	255	HIS
1	C	259	GLN
1	C	272	ASN
1	C	329	ASN
1	C	336	ASN
1	C	376	GLN
1	C	470	ASN
1	C	519	ASN
1	C	527	HIS
1	C	579	GLN
1	C	584	HIS
1	C	608	GLN
1	C	624	HIS
1	C	646	GLN
1	C	673	GLN
1	C	700	GLN
1	D	233	GLN
1	D	255	HIS
1	D	259	GLN
1	D	272	ASN
1	D	329	ASN
1	D	336	ASN
1	D	351	GLN
1	D	376	GLN
1	D	470	ASN
1	D	519	ASN
1	D	579	GLN
1	D	584	HIS
1	D	608	GLN
1	D	624	HIS

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Mol	Chain	Res	Type
1	D	646	GLN
1	D	673	GLN
1	E	233	GLN
1	E	255	HIS
1	E	272	ASN
1	E	336	ASN
1	E	351	GLN
1	E	376	GLN
1	E	470	ASN
1	E	519	ASN
1	E	527	HIS
1	E	579	GLN
1	E	584	HIS
1	E	608	GLN
1	E	624	HIS
1	E	646	GLN
1	E	673	GLN
1	E	691	ASN
1	E	700	GLN
1	F	233	GLN
1	F	255	HIS
1	F	272	ASN
1	F	336	ASN
1	F	351	GLN
1	F	376	GLN
1	F	470	ASN
1	F	519	ASN
1	F	579	GLN
1	F	584	HIS
1	F	624	HIS
1	F	646	GLN
1	F	673	GLN
1	F	700	GLN
1	G	233	GLN
1	G	255	HIS
1	G	259	GLN
1	G	272	ASN
1	G	336	ASN
1	G	351	GLN
1	G	376	GLN
1	G	470	ASN
1	G	519	ASN

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Mol	Chain	Res	Type
1	G	579	GLN
1	G	584	HIS
1	G	624	HIS
1	G	646	GLN
1	G	673	GLN
1	G	691	ASN
1	G	700	GLN
1	H	233	GLN
1	H	255	HIS
1	H	259	GLN
1	H	272	ASN
1	H	329	ASN
1	H	336	ASN
1	H	351	GLN
1	H	376	GLN
1	H	470	ASN
1	H	519	ASN
1	H	579	GLN
1	H	584	HIS
1	H	624	HIS
1	H	646	GLN
1	H	673	GLN
1	H	700	GLN
1	I	233	GLN
1	I	255	HIS
1	I	259	GLN
1	I	272	ASN
1	I	329	ASN
1	I	336	ASN
1	I	376	GLN
1	I	470	ASN
1	I	519	ASN
1	I	527	HIS
1	I	579	GLN
1	I	584	HIS
1	I	608	GLN
1	I	624	HIS
1	I	646	GLN
1	I	673	GLN
1	I	691	ASN
1	I	700	GLN
1	J	233	GLN

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Mol	Chain	Res	Type
1	J	255	HIS
1	J	259	GLN
1	J	272	ASN
1	J	329	ASN
1	J	336	ASN
1	J	351	GLN
1	J	376	GLN
1	J	470	ASN
1	J	519	ASN
1	J	527	HIS
1	J	579	GLN
1	J	584	HIS
1	J	608	GLN
1	J	624	HIS
1	J	646	GLN
1	J	673	GLN
1	J	700	GLN
1	K	233	GLN
1	K	255	HIS
1	K	259	GLN
1	K	272	ASN
1	K	329	ASN
1	K	351	GLN
1	K	376	GLN
1	K	470	ASN
1	K	519	ASN
1	K	579	GLN
1	K	584	HIS
1	K	624	HIS
1	K	646	GLN
1	K	673	GLN
1	K	700	GLN
1	L	233	GLN
1	L	255	HIS
1	L	259	GLN
1	L	272	ASN
1	L	329	ASN
1	L	336	ASN
1	L	351	GLN
1	L	376	GLN
1	L	519	ASN
1	L	527	HIS

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Mol	Chain	Res	Type
1	L	579	GLN
1	L	584	HIS
1	L	624	HIS
1	L	646	GLN
1	L	673	GLN
1	L	700	GLN
1	M	233	GLN
1	M	255	HIS
1	M	259	GLN
1	M	272	ASN
1	M	329	ASN
1	M	336	ASN
1	M	376	GLN
1	M	470	ASN
1	M	519	ASN
1	M	579	GLN
1	M	584	HIS
1	M	608	GLN
1	M	624	HIS
1	M	646	GLN
1	M	673	GLN
1	M	691	ASN
1	M	700	GLN
1	N	233	GLN
1	N	255	HIS
1	N	259	GLN
1	N	272	ASN
1	N	336	ASN
1	N	351	GLN
1	N	376	GLN
1	N	470	ASN
1	N	519	ASN
1	N	579	GLN
1	N	584	HIS
1	N	624	HIS
1	N	646	GLN
1	N	673	GLN
1	N	700	GLN
1	O	233	GLN
1	O	255	HIS
1	O	272	ASN
1	O	329	ASN

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Mol	Chain	Res	Type
1	O	336	ASN
1	O	351	GLN
1	O	376	GLN
1	O	470	ASN
1	O	519	ASN
1	O	579	GLN
1	O	584	HIS
1	O	608	GLN
1	O	624	HIS
1	O	646	GLN
1	O	673	GLN
1	O	700	GLN
1	P	233	GLN
1	P	255	HIS
1	P	272	ASN
1	P	336	ASN
1	P	351	GLN
1	P	376	GLN
1	P	470	ASN
1	P	519	ASN
1	P	527	HIS
1	P	579	GLN
1	P	584	HIS
1	P	624	HIS
1	P	646	GLN
1	P	673	GLN
1	P	700	GLN
1	Q	233	GLN
1	Q	255	HIS
1	Q	259	GLN
1	Q	272	ASN
1	Q	329	ASN
1	Q	336	ASN
1	Q	376	GLN
1	Q	470	ASN
1	Q	519	ASN
1	Q	527	HIS
1	Q	579	GLN
1	Q	584	HIS
1	Q	624	HIS
1	Q	646	GLN
1	Q	673	GLN

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Mol	Chain	Res	Type
1	R	233	GLN
1	R	255	HIS
1	R	259	GLN
1	R	272	ASN
1	R	336	ASN
1	R	351	GLN
1	R	376	GLN
1	R	470	ASN
1	R	519	ASN
1	R	527	HIS
1	R	579	GLN
1	R	584	HIS
1	R	624	HIS
1	R	646	GLN
1	R	673	GLN
1	R	700	GLN
1	S	233	GLN
1	S	255	HIS
1	S	259	GLN
1	S	272	ASN
1	S	351	GLN
1	S	376	GLN
1	S	470	ASN
1	S	519	ASN
1	S	579	GLN
1	S	584	HIS
1	S	624	HIS
1	S	646	GLN
1	S	673	GLN
1	S	700	GLN
1	T	233	GLN
1	T	255	HIS
1	T	259	GLN
1	T	272	ASN
1	T	336	ASN
1	T	351	GLN
1	T	376	GLN
1	T	470	ASN
1	T	519	ASN
1	T	527	HIS
1	T	579	GLN
1	T	584	HIS

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Mol	Chain	Res	Type
1	T	624	HIS
1	T	646	GLN
1	T	673	GLN
1	T	700	GLN
1	U	233	GLN
1	U	255	HIS
1	U	259	GLN
1	U	272	ASN
1	U	329	ASN
1	U	336	ASN
1	U	351	GLN
1	U	376	GLN
1	U	470	ASN
1	U	519	ASN
1	U	527	HIS
1	U	579	GLN
1	U	584	HIS
1	U	608	GLN
1	U	624	HIS
1	U	646	GLN
1	U	673	GLN
1	U	700	GLN
1	V	233	GLN
1	V	255	HIS
1	V	259	GLN
1	V	272	ASN
1	V	329	ASN
1	V	336	ASN
1	V	351	GLN
1	V	376	GLN
1	V	470	ASN
1	V	519	ASN
1	V	527	HIS
1	V	579	GLN
1	V	584	HIS
1	V	624	HIS
1	V	646	GLN
1	V	673	GLN
1	V	691	ASN
1	V	700	GLN
1	W	233	GLN
1	W	255	HIS

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Mol	Chain	Res	Type
1	W	259	GLN
1	W	272	ASN
1	W	336	ASN
1	W	351	GLN
1	W	376	GLN
1	W	428	HIS
1	W	470	ASN
1	W	519	ASN
1	W	527	HIS
1	W	579	GLN
1	W	584	HIS
1	W	608	GLN
1	W	624	HIS
1	W	646	GLN
1	W	673	GLN
1	W	700	GLN
1	X	233	GLN
1	X	255	HIS
1	X	259	GLN
1	X	272	ASN
1	X	336	ASN
1	X	351	GLN
1	X	376	GLN
1	X	470	ASN
1	X	519	ASN
1	X	527	HIS
1	X	579	GLN
1	X	584	HIS
1	X	608	GLN
1	X	624	HIS
1	X	646	GLN
1	X	673	GLN
1	X	700	GLN
1	Y	233	GLN
1	Y	255	HIS
1	Y	259	GLN
1	Y	272	ASN
1	Y	329	ASN
1	Y	336	ASN
1	Y	351	GLN
1	Y	376	GLN
1	Y	470	ASN

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Mol	Chain	Res	Type
1	Y	519	ASN
1	Y	579	GLN
1	Y	584	HIS
1	Y	608	GLN
1	Y	624	HIS
1	Y	646	GLN
1	Y	673	GLN
1	Y	700	GLN
1	Z	233	GLN
1	Z	255	HIS
1	Z	259	GLN
1	Z	272	ASN
1	Z	336	ASN
1	Z	376	GLN
1	Z	470	ASN
1	Z	519	ASN
1	Z	527	HIS
1	Z	579	GLN
1	Z	584	HIS
1	Z	608	GLN
1	Z	624	HIS
1	Z	646	GLN
1	Z	673	GLN
1	Z	700	GLN
1	1	233	GLN
1	1	255	HIS
1	1	259	GLN
1	1	272	ASN
1	1	336	ASN
1	1	351	GLN
1	1	376	GLN
1	1	470	ASN
1	1	519	ASN
1	1	527	HIS
1	1	579	GLN
1	1	584	HIS
1	1	624	HIS
1	1	646	GLN
1	1	673	GLN
1	1	700	GLN
1	2	233	GLN
1	2	255	HIS

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Mol	Chain	Res	Type
1	2	259	GLN
1	2	272	ASN
1	2	329	ASN
1	2	336	ASN
1	2	351	GLN
1	2	376	GLN
1	2	470	ASN
1	2	519	ASN
1	2	579	GLN
1	2	584	HIS
1	2	608	GLN
1	2	624	HIS
1	2	646	GLN
1	2	673	GLN
1	2	691	ASN
1	2	700	GLN
1	3	233	GLN
1	3	255	HIS
1	3	259	GLN
1	3	272	ASN
1	3	329	ASN
1	3	336	ASN
1	3	351	GLN
1	3	376	GLN
1	3	470	ASN
1	3	519	ASN
1	3	527	HIS
1	3	579	GLN
1	3	584	HIS
1	3	608	GLN
1	3	624	HIS
1	3	646	GLN
1	3	673	GLN
1	3	691	ASN
1	3	700	GLN
1	4	233	GLN
1	4	255	HIS
1	4	259	GLN
1	4	272	ASN
1	4	329	ASN
1	4	336	ASN
1	4	376	GLN

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Mol	Chain	Res	Type
1	4	470	ASN
1	4	519	ASN
1	4	579	GLN
1	4	584	HIS
1	4	608	GLN
1	4	624	HIS
1	4	646	GLN
1	4	673	GLN
1	4	700	GLN
1	5	233	GLN
1	5	255	HIS
1	5	259	GLN
1	5	272	ASN
1	5	336	ASN
1	5	351	GLN
1	5	376	GLN
1	5	470	ASN
1	5	519	ASN
1	5	579	GLN
1	5	584	HIS
1	5	624	HIS
1	5	646	GLN
1	5	673	GLN
1	5	700	GLN
1	6	233	GLN
1	6	255	HIS
1	6	259	GLN
1	6	272	ASN
1	6	336	ASN
1	6	351	GLN
1	6	376	GLN
1	6	428	HIS
1	6	470	ASN
1	6	477	ASN
1	6	512	ASN
1	6	527	HIS
1	6	579	GLN
1	6	584	HIS
1	6	585	GLN
1	6	608	GLN
1	6	646	GLN
1	6	673	GLN

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Mol	Chain	Res	Type
1	6	700	GLN
1	a	233	GLN
1	a	255	HIS
1	a	272	ASN
1	a	329	ASN
1	a	336	ASN
1	a	376	GLN
1	a	470	ASN
1	a	519	ASN
1	a	527	HIS
1	a	579	GLN
1	a	584	HIS
1	a	608	GLN
1	a	624	HIS
1	a	646	GLN
1	a	673	GLN
1	b	233	GLN
1	b	255	HIS
1	b	259	GLN
1	b	272	ASN
1	b	336	ASN
1	b	351	GLN
1	b	376	GLN
1	b	470	ASN
1	b	519	ASN
1	b	527	HIS
1	b	579	GLN
1	b	584	HIS
1	b	624	HIS
1	b	646	GLN
1	b	673	GLN
1	b	691	ASN
1	b	700	GLN
1	c	233	GLN
1	c	255	HIS
1	c	259	GLN
1	c	272	ASN
1	c	329	ASN
1	c	336	ASN
1	c	376	GLN
1	c	470	ASN
1	c	519	ASN

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Mol	Chain	Res	Type
1	c	527	HIS
1	c	579	GLN
1	c	584	HIS
1	c	624	HIS
1	c	646	GLN
1	c	673	GLN
1	d	233	GLN
1	d	255	HIS
1	d	272	ASN
1	d	336	ASN
1	d	351	GLN
1	d	376	GLN
1	d	470	ASN
1	d	519	ASN
1	d	527	HIS
1	d	579	GLN
1	d	584	HIS
1	d	624	HIS
1	d	646	GLN
1	d	673	GLN
1	d	700	GLN
1	e	233	GLN
1	e	255	HIS
1	e	272	ASN
1	e	336	ASN
1	e	351	GLN
1	e	376	GLN
1	e	470	ASN
1	e	519	ASN
1	e	527	HIS
1	e	579	GLN
1	e	584	HIS
1	e	608	GLN
1	e	624	HIS
1	e	646	GLN
1	e	673	GLN
1	e	691	ASN
1	e	700	GLN
1	f	233	GLN
1	f	255	HIS
1	f	259	GLN
1	f	272	ASN

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Mol	Chain	Res	Type
1	f	329	ASN
1	f	336	ASN
1	f	376	GLN
1	f	470	ASN
1	f	519	ASN
1	f	527	HIS
1	f	579	GLN
1	f	584	HIS
1	f	624	HIS
1	f	646	GLN
1	f	673	GLN
1	f	700	GLN
1	g	233	GLN
1	g	255	HIS
1	g	259	GLN
1	g	272	ASN
1	g	336	ASN
1	g	351	GLN
1	g	376	GLN
1	g	470	ASN
1	g	519	ASN
1	g	579	GLN
1	g	584	HIS
1	g	608	GLN
1	g	624	HIS
1	g	646	GLN
1	g	673	GLN
1	g	700	GLN
1	h	233	GLN
1	h	255	HIS
1	h	259	GLN
1	h	272	ASN
1	h	329	ASN
1	h	336	ASN
1	h	351	GLN
1	h	376	GLN
1	h	470	ASN
1	h	519	ASN
1	h	527	HIS
1	h	579	GLN
1	h	584	HIS
1	h	624	HIS

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Mol	Chain	Res	Type
1	h	646	GLN
1	h	673	GLN
1	i	233	GLN
1	i	255	HIS
1	i	259	GLN
1	i	272	ASN
1	i	329	ASN
1	i	336	ASN
1	i	376	GLN
1	i	470	ASN
1	i	519	ASN
1	i	579	GLN
1	i	584	HIS
1	i	608	GLN
1	i	624	HIS
1	i	646	GLN
1	i	673	GLN
1	i	691	ASN
1	i	700	GLN
1	j	233	GLN
1	j	255	HIS
1	j	259	GLN
1	j	272	ASN
1	j	336	ASN
1	j	376	GLN
1	j	470	ASN
1	j	519	ASN
1	j	527	HIS
1	j	579	GLN
1	j	584	HIS
1	j	608	GLN
1	j	624	HIS
1	j	646	GLN
1	j	673	GLN
1	j	700	GLN
1	k	233	GLN
1	k	255	HIS
1	k	259	GLN
1	k	272	ASN
1	k	329	ASN
1	k	336	ASN
1	k	351	GLN

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Mol	Chain	Res	Type
1	k	376	GLN
1	k	470	ASN
1	k	519	ASN
1	k	527	HIS
1	k	579	GLN
1	k	584	HIS
1	k	624	HIS
1	k	646	GLN
1	k	673	GLN
1	k	700	GLN
1	l	233	GLN
1	l	255	HIS
1	l	259	GLN
1	l	272	ASN
1	l	329	ASN
1	l	351	GLN
1	l	376	GLN
1	l	428	HIS
1	l	470	ASN
1	l	519	ASN
1	l	527	HIS
1	l	579	GLN
1	l	584	HIS
1	l	608	GLN
1	l	624	HIS
1	l	646	GLN
1	l	673	GLN
1	l	700	GLN
1	m	233	GLN
1	m	255	HIS
1	m	259	GLN
1	m	272	ASN
1	m	329	ASN
1	m	336	ASN
1	m	351	GLN
1	m	376	GLN
1	m	470	ASN
1	m	519	ASN
1	m	579	GLN
1	m	584	HIS
1	m	608	GLN
1	m	624	HIS

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Mol	Chain	Res	Type
1	m	646	GLN
1	m	673	GLN
1	m	700	GLN
1	n	233	GLN
1	n	255	HIS
1	n	259	GLN
1	n	272	ASN
1	n	336	ASN
1	n	351	GLN
1	n	376	GLN
1	n	470	ASN
1	n	519	ASN
1	n	527	HIS
1	n	579	GLN
1	n	584	HIS
1	n	608	GLN
1	n	624	HIS
1	n	646	GLN
1	n	673	GLN
1	n	700	GLN
1	o	233	GLN
1	o	255	HIS
1	o	272	ASN
1	o	336	ASN
1	o	351	GLN
1	o	376	GLN
1	o	519	ASN
1	o	527	HIS
1	o	579	GLN
1	o	584	HIS
1	o	624	HIS
1	o	646	GLN
1	o	673	GLN
1	o	700	GLN
1	p	233	GLN
1	p	255	HIS
1	p	259	GLN
1	p	272	ASN
1	p	336	ASN
1	p	351	GLN
1	p	376	GLN
1	p	470	ASN

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Mol	Chain	Res	Type
1	p	519	ASN
1	p	579	GLN
1	p	584	HIS
1	p	624	HIS
1	p	646	GLN
1	p	673	GLN
1	p	700	GLN
1	q	233	GLN
1	q	255	HIS
1	q	259	GLN
1	q	272	ASN
1	q	336	ASN
1	q	376	GLN
1	q	470	ASN
1	q	519	ASN
1	q	527	HIS
1	q	579	GLN
1	q	584	HIS
1	q	624	HIS
1	q	646	GLN
1	q	673	GLN
1	q	700	GLN
1	r	233	GLN
1	r	255	HIS
1	r	259	GLN
1	r	272	ASN
1	r	336	ASN
1	r	351	GLN
1	r	376	GLN
1	r	519	ASN
1	r	579	GLN
1	r	584	HIS
1	r	624	HIS
1	r	646	GLN
1	r	673	GLN
1	r	691	ASN
1	r	700	GLN
1	s	233	GLN
1	s	255	HIS
1	s	259	GLN
1	s	272	ASN
1	s	329	ASN

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Mol	Chain	Res	Type
1	s	336	ASN
1	s	376	GLN
1	s	470	ASN
1	s	519	ASN
1	s	527	HIS
1	s	579	GLN
1	s	584	HIS
1	s	608	GLN
1	s	624	HIS
1	s	646	GLN
1	s	673	GLN
1	s	691	ASN
1	s	700	GLN
1	t	233	GLN
1	t	255	HIS
1	t	259	GLN
1	t	272	ASN
1	t	336	ASN
1	t	351	GLN
1	t	376	GLN
1	t	470	ASN
1	t	519	ASN
1	t	579	GLN
1	t	584	HIS
1	t	608	GLN
1	t	624	HIS
1	t	646	GLN
1	t	673	GLN
1	t	691	ASN
1	t	700	GLN
1	u	233	GLN
1	u	255	HIS
1	u	259	GLN
1	u	272	ASN
1	u	329	ASN
1	u	336	ASN
1	u	376	GLN
1	u	470	ASN
1	u	519	ASN
1	u	527	HIS
1	u	579	GLN
1	u	584	HIS

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Mol	Chain	Res	Type
1	u	624	HIS
1	u	646	GLN
1	u	673	GLN
1	v	233	GLN
1	v	255	HIS
1	v	259	GLN
1	v	272	ASN
1	v	329	ASN
1	v	336	ASN
1	v	351	GLN
1	v	376	GLN
1	v	470	ASN
1	v	519	ASN
1	v	579	GLN
1	v	584	HIS
1	v	608	GLN
1	v	624	HIS
1	v	646	GLN
1	v	673	GLN
1	v	700	GLN
1	w	233	GLN
1	w	255	HIS
1	w	272	ASN
1	w	329	ASN
1	w	336	ASN
1	w	351	GLN
1	w	376	GLN
1	w	470	ASN
1	w	519	ASN
1	w	579	GLN
1	w	584	HIS
1	w	608	GLN
1	w	624	HIS
1	w	646	GLN
1	w	673	GLN
1	w	691	ASN
1	w	700	GLN
1	x	233	GLN
1	x	255	HIS
1	x	259	GLN
1	x	272	ASN
1	x	329	ASN

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Mol	Chain	Res	Type
1	x	336	ASN
1	x	351	GLN
1	x	376	GLN
1	x	470	ASN
1	x	519	ASN
1	x	527	HIS
1	x	579	GLN
1	x	584	HIS
1	x	608	GLN
1	x	624	HIS
1	x	646	GLN
1	x	673	GLN
1	x	700	GLN
1	y	233	GLN
1	y	255	HIS
1	y	259	GLN
1	y	272	ASN
1	y	329	ASN
1	y	351	GLN
1	y	376	GLN
1	y	470	ASN
1	y	519	ASN
1	y	579	GLN
1	y	584	HIS
1	y	608	GLN
1	y	624	HIS
1	y	646	GLN
1	y	673	GLN
1	y	700	GLN
1	z	233	GLN
1	z	255	HIS
1	z	259	GLN
1	z	272	ASN
1	z	336	ASN
1	z	351	GLN
1	z	376	GLN
1	z	470	ASN
1	z	519	ASN
1	z	527	HIS
1	z	579	GLN
1	z	584	HIS
1	z	624	HIS

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Mol	Chain	Res	Type
1	z	646	GLN
1	z	673	GLN
1	z	700	GLN
1	7	233	GLN
1	7	255	HIS
1	7	259	GLN
1	7	272	ASN
1	7	329	ASN
1	7	336	ASN
1	7	351	GLN
1	7	376	GLN
1	7	470	ASN
1	7	519	ASN
1	7	527	HIS
1	7	579	GLN
1	7	584	HIS
1	7	608	GLN
1	7	624	HIS
1	7	646	GLN
1	7	673	GLN
1	7	700	GLN
1	8	233	GLN
1	8	255	HIS
1	8	259	GLN
1	8	272	ASN
1	8	329	ASN
1	8	336	ASN
1	8	351	GLN
1	8	376	GLN
1	8	470	ASN
1	8	519	ASN
1	8	527	HIS
1	8	579	GLN
1	8	584	HIS
1	8	608	GLN
1	8	624	HIS
1	8	646	GLN
1	8	673	GLN
1	8	700	GLN

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](#)

There are no chain breaks in this entry.

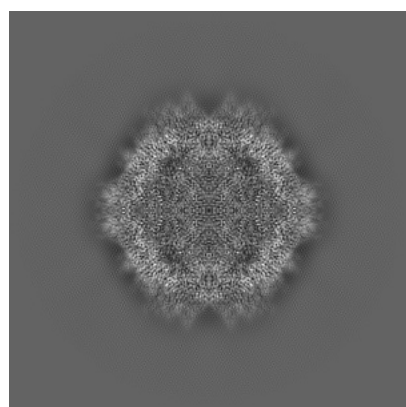
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23986. These allow visual inspection of the internal detail of the map and identification of artifacts.

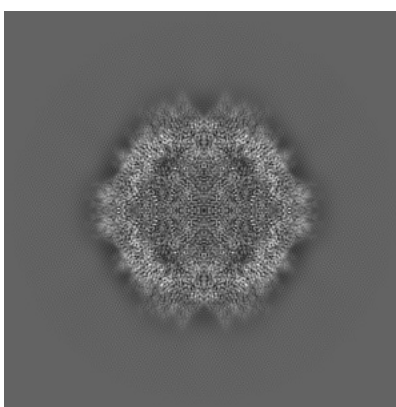
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

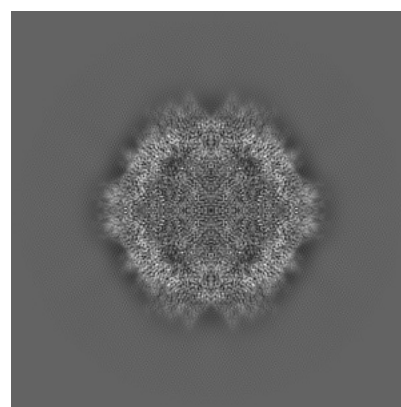
6.1.1 Primary map



X



Y

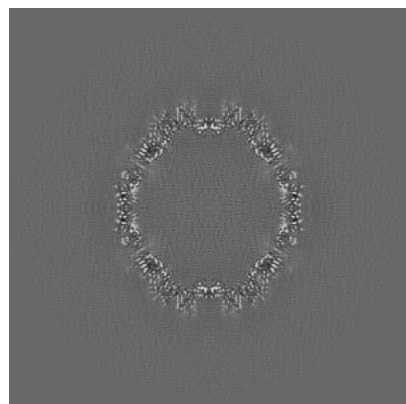


Z

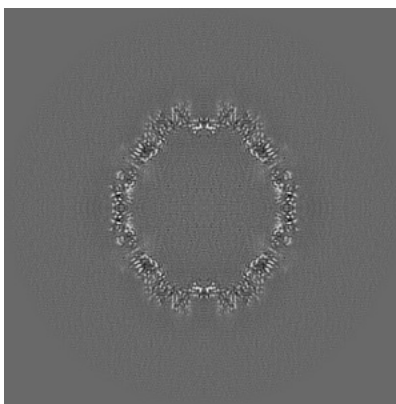
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

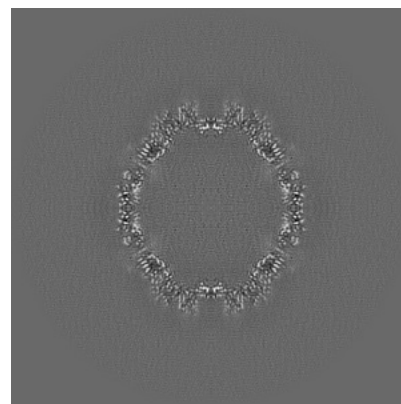
6.2.1 Primary map



X Index: 220



Y Index: 220

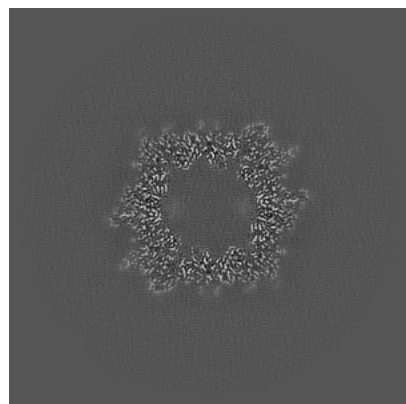


Z Index: 220

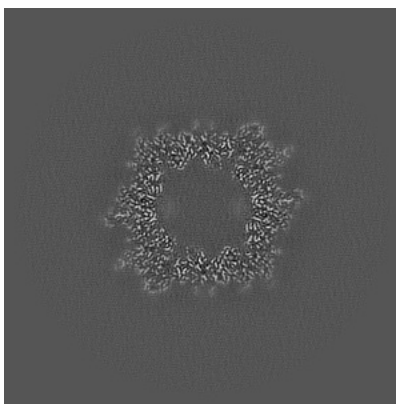
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

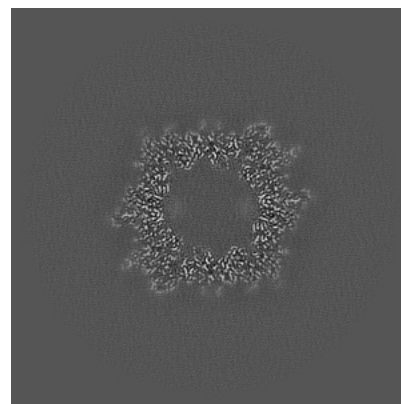
6.3.1 Primary map



X Index: 159



Y Index: 159

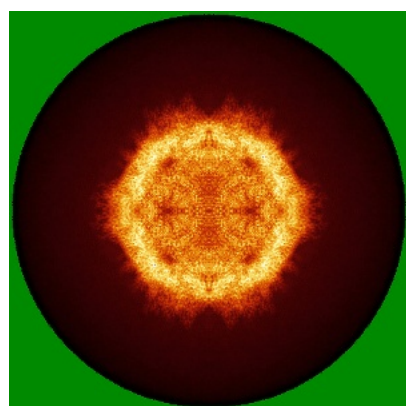


Z Index: 159

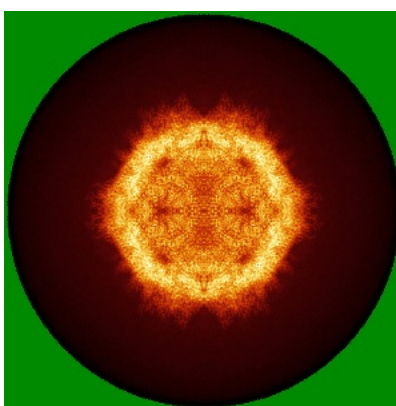
The images above show the largest variance slices of the map in three orthogonal directions.

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

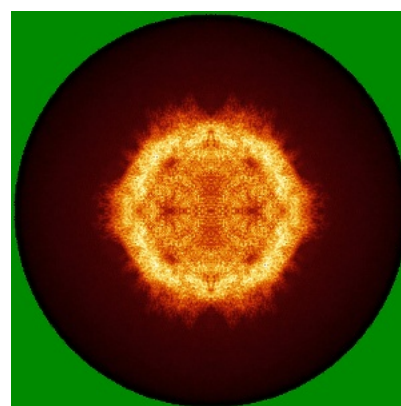
6.4.1 Primary map



X



Y

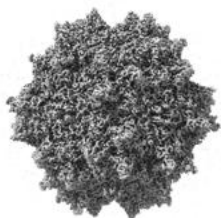


Z

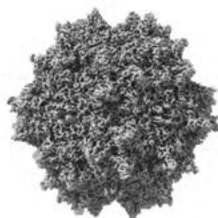
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

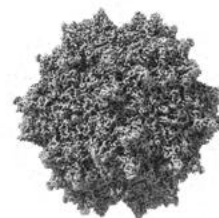
6.5.1 Primary map



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.

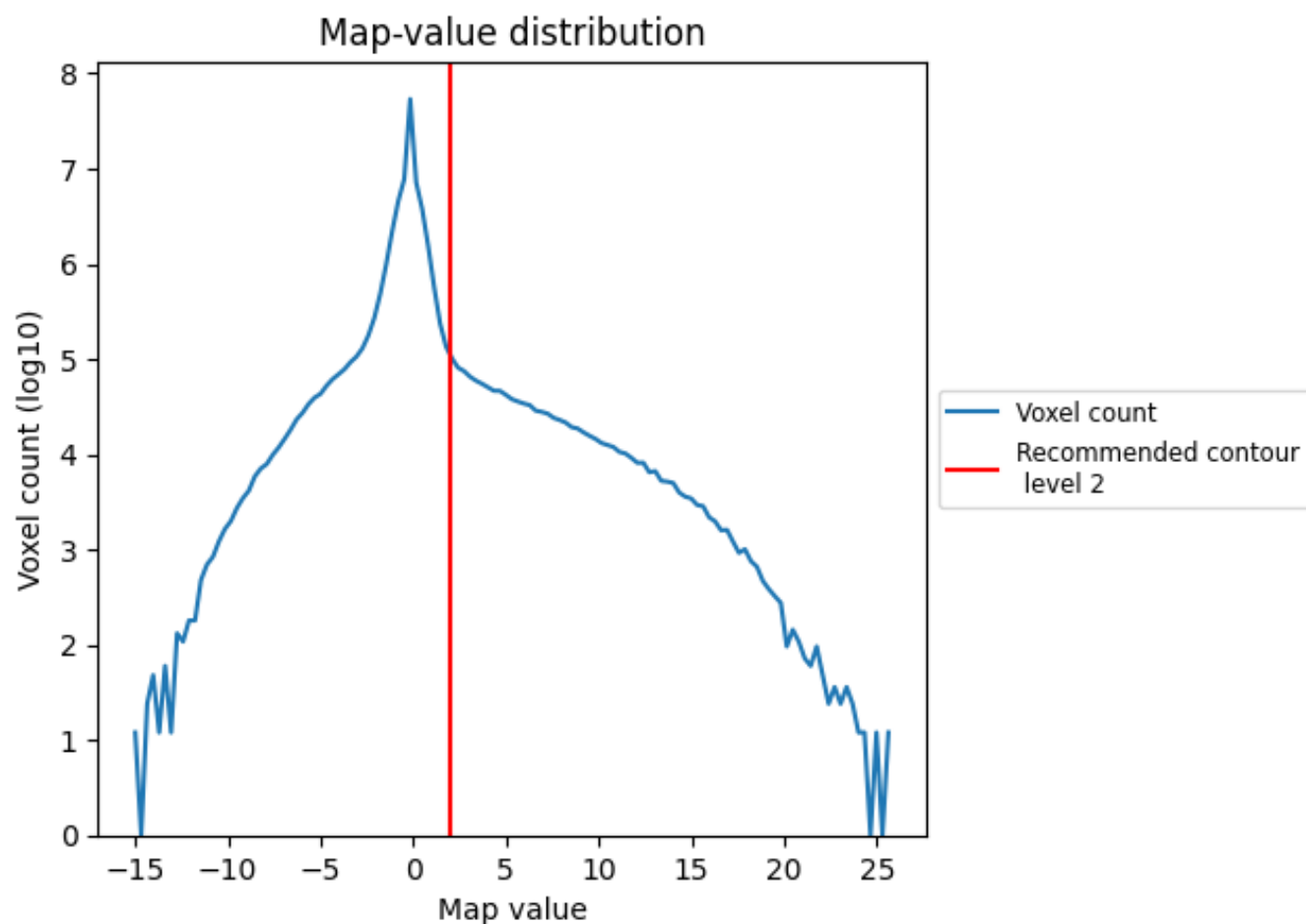
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

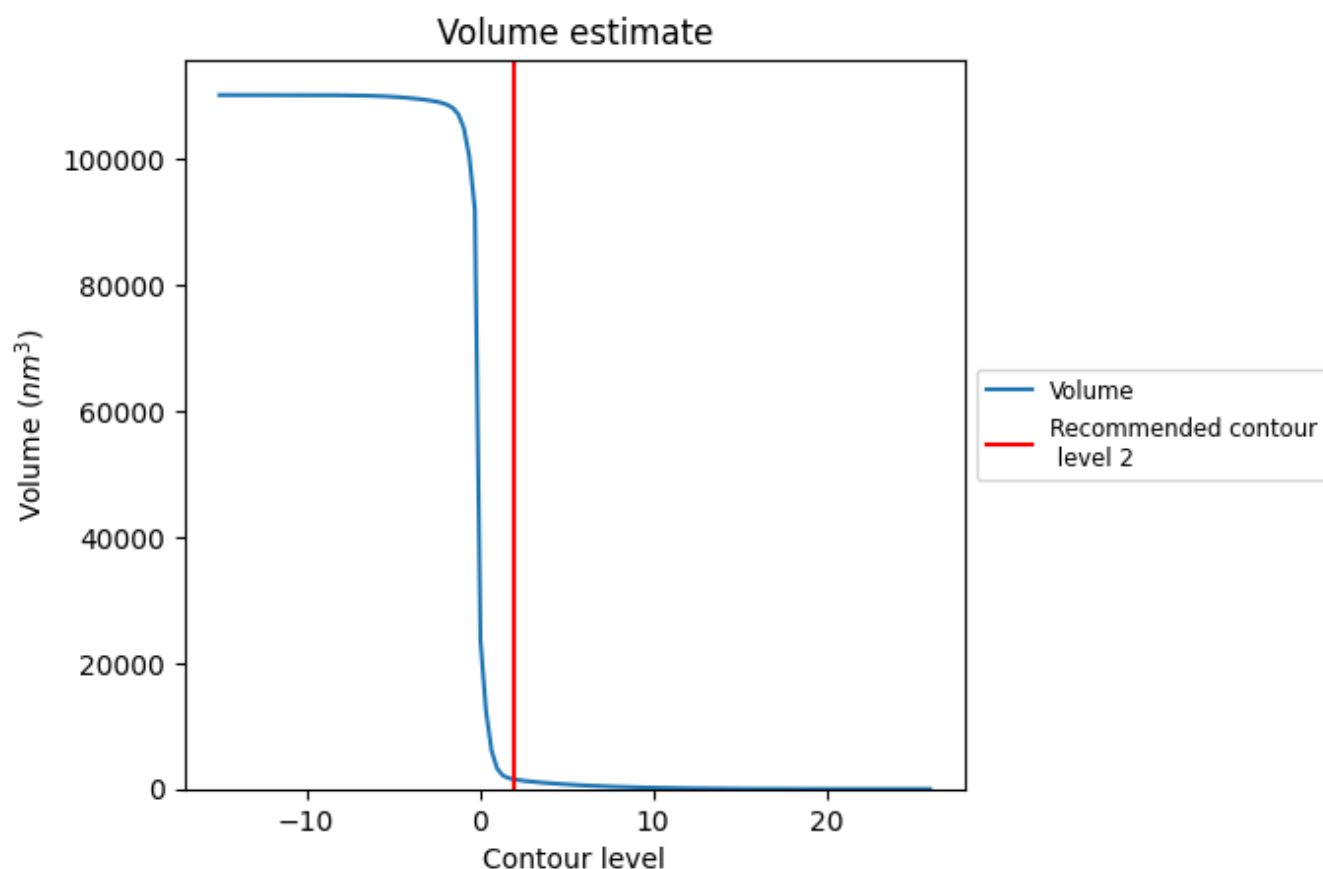
This section contains the results of statistical analysis of the map.

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.

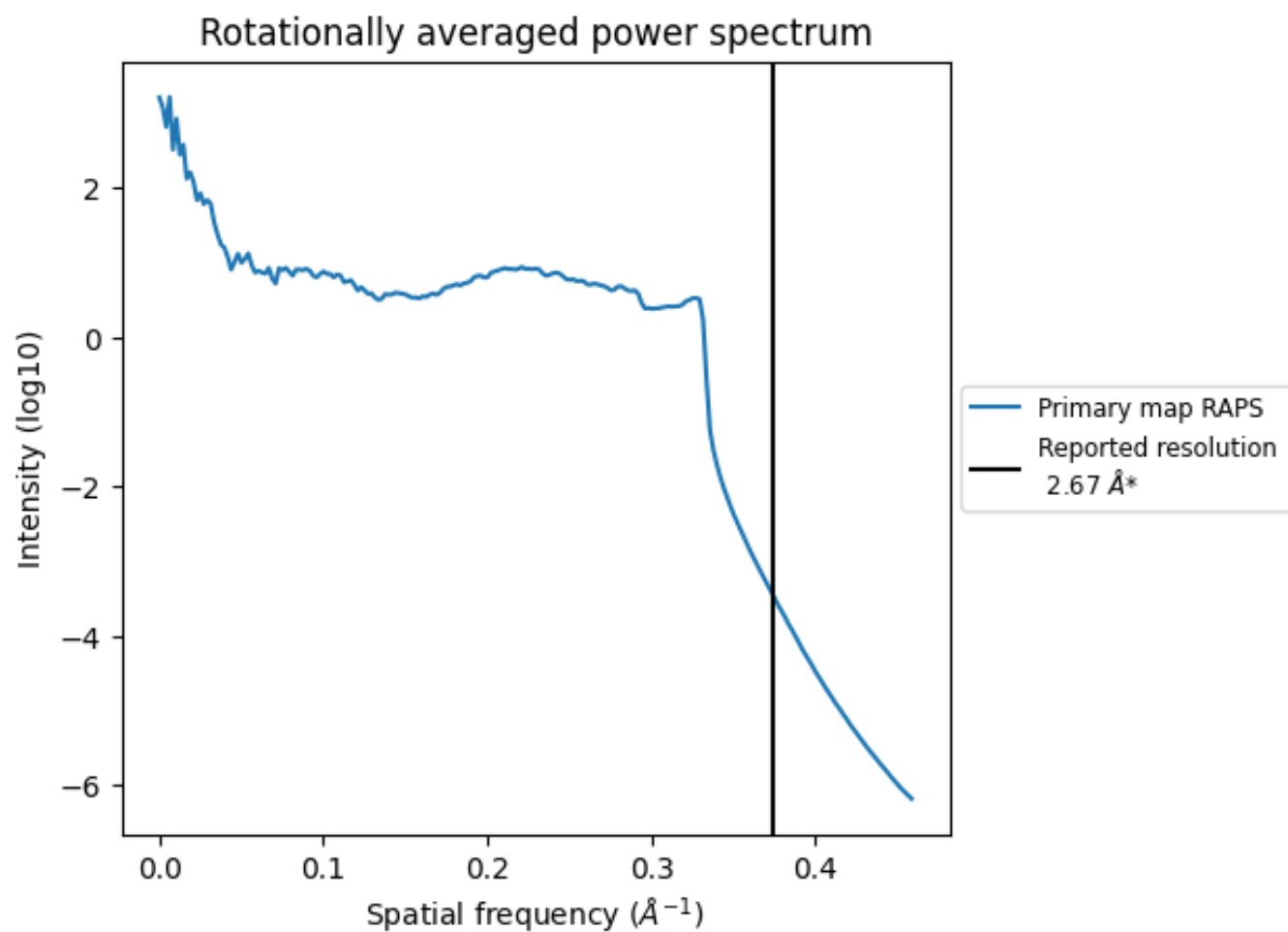
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1516 nm^3 ; this corresponds to an approximate mass of 1370 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 0.375 Å⁻¹

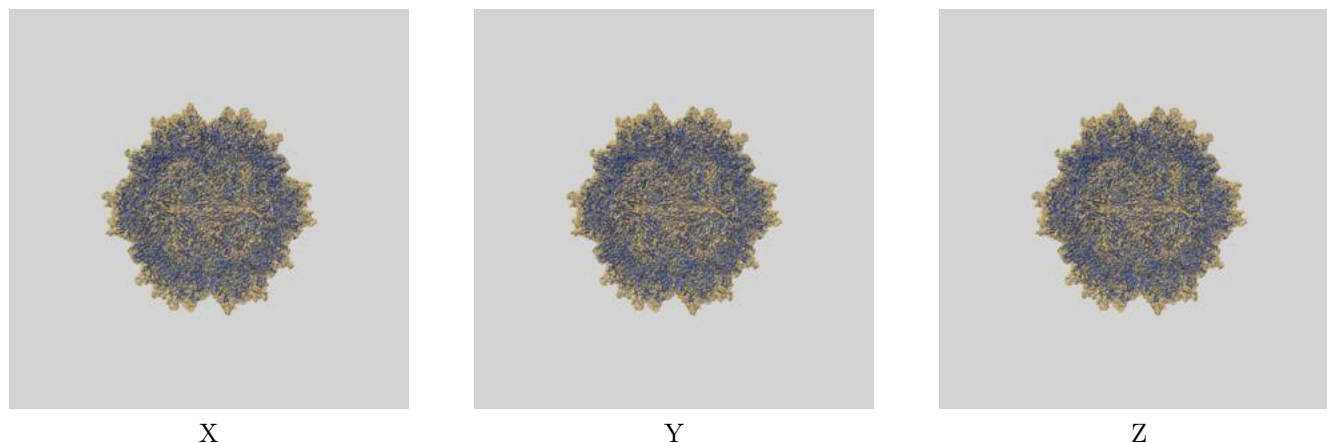
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

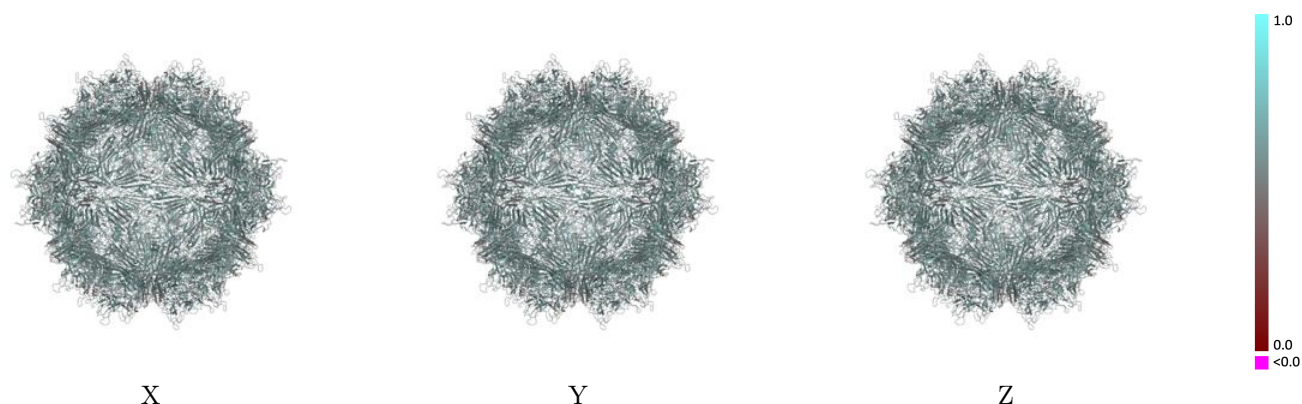
This section contains information regarding the fit between EMDB map EMD-23986 and PDB model 7MTG. Per-residue inclusion information can be found in section [3](#) on page [10](#).

9.1 Map-model overlay [i](#)



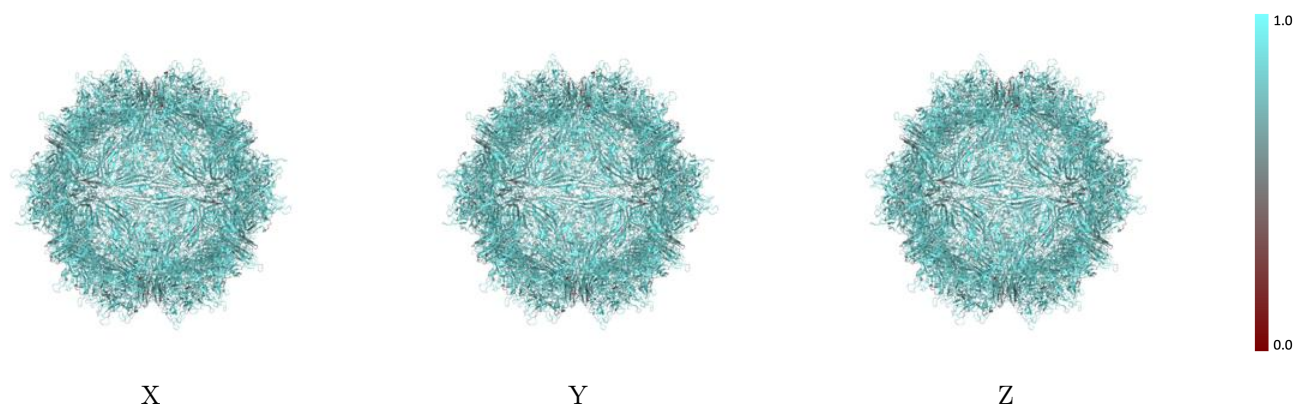
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



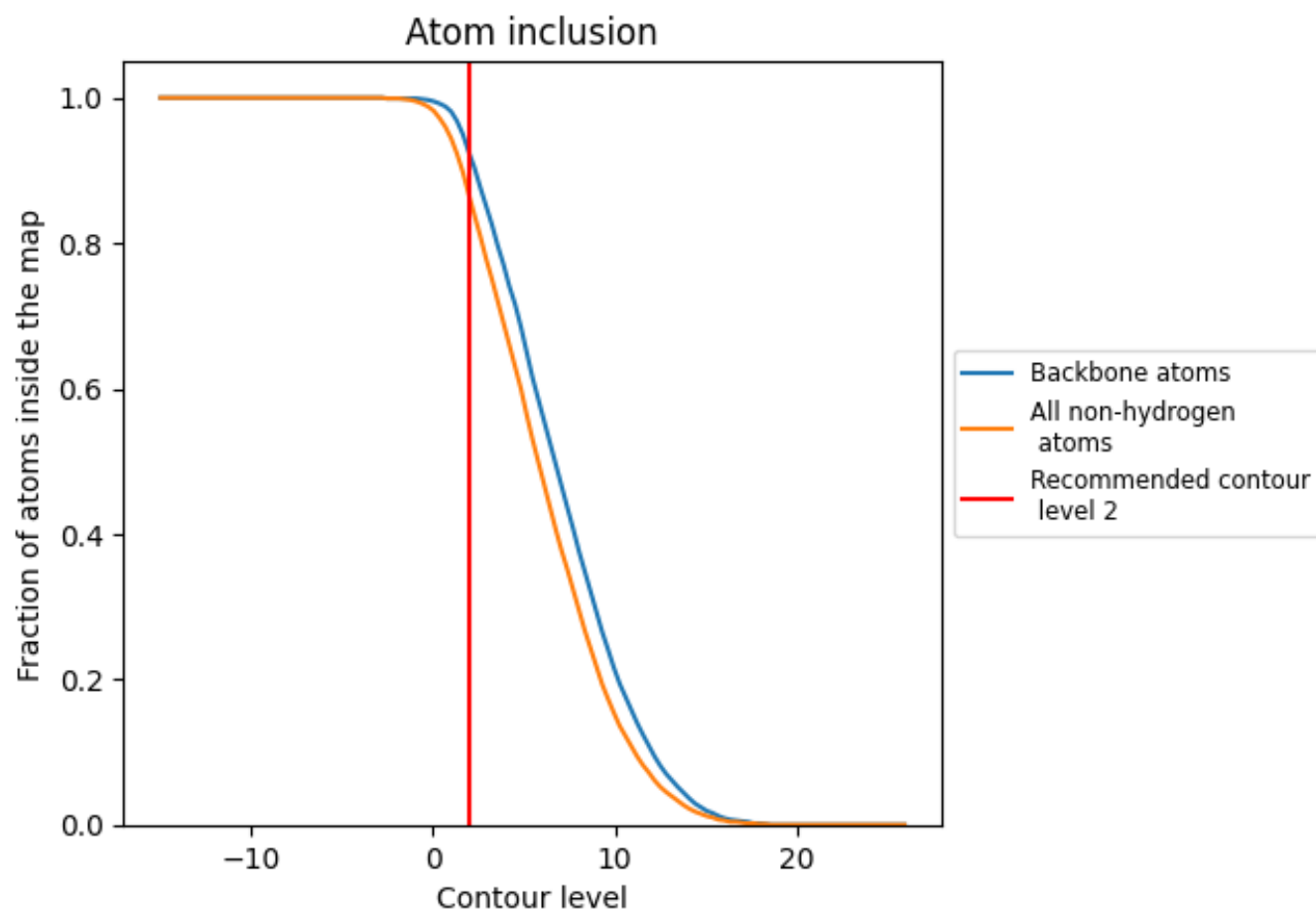
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 92% of all backbone atoms, 86% 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	 0.8640	 0.5660
1	 0.8640	 0.5650
2	 0.8640	 0.5670
3	 0.8640	 0.5660
4	 0.8640	 0.5670
5	 0.8650	 0.5660
6	 0.8490	 0.5520
7	 0.8620	 0.5670
8	 0.8630	 0.5670
A	 0.8640	 0.5650
B	 0.8650	 0.5660
C	 0.8650	 0.5660
D	 0.8630	 0.5670
E	 0.8640	 0.5670
F	 0.8640	 0.5660
G	 0.8620	 0.5660
H	 0.8620	 0.5650
I	 0.8650	 0.5650
J	 0.8650	 0.5650
K	 0.8650	 0.5660
L	 0.8640	 0.5660
M	 0.8620	 0.5670
N	 0.8650	 0.5660
O	 0.8670	 0.5660
P	 0.8640	 0.5660
Q	 0.8640	 0.5670
R	 0.8630	 0.5660
S	 0.8630	 0.5680
T	 0.8630	 0.5670
U	 0.8650	 0.5660
V	 0.8650	 0.5680
W	 0.8650	 0.5650
X	 0.8650	 0.5670
Y	 0.8640	 0.5650
Z	 0.8640	 0.5650



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Chain	Atom inclusion	Q-score
a	 0.8630	 0.5670
b	 0.8640	 0.5660
c	 0.8640	 0.5650
d	 0.8640	 0.5650
e	 0.8640	 0.5660
f	 0.8640	 0.5660
g	 0.8640	 0.5650
h	 0.8650	 0.5670
i	 0.8640	 0.5660
j	 0.8640	 0.5650
k	 0.8620	 0.5650
l	 0.8650	 0.5640
m	 0.8640	 0.5650
n	 0.8650	 0.5660
o	 0.8640	 0.5670
p	 0.8650	 0.5660
q	 0.8640	 0.5650
r	 0.8620	 0.5650
s	 0.8650	 0.5660
t	 0.8620	 0.5680
u	 0.8650	 0.5660
v	 0.8640	 0.5660
w	 0.8640	 0.5650
x	 0.8640	 0.5650
y	 0.8650	 0.5670
z	 0.8640	 0.5660