



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 08:39 AM UTC

PDB ID : 6U0V / pdb_00006u0v
EMDB ID : EMD-20610
Title : Atomic-Resolution Cryo-EM Structure of AAV2 VLP
Authors : Agbandje-Mckenna, M.; Bennett, A.
Deposited on : 2019-08-14
Resolution : 3.02 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

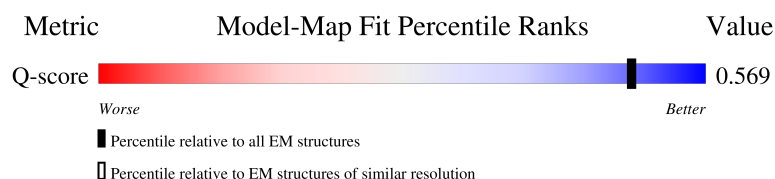
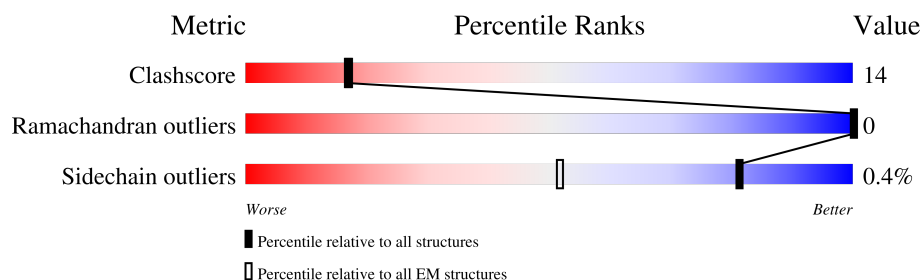
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & 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 3.02 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.



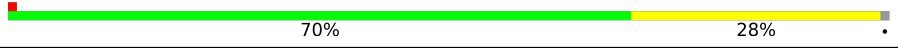
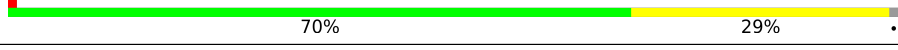
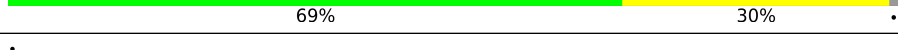
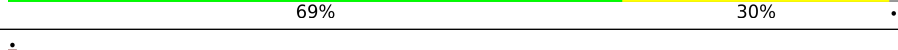
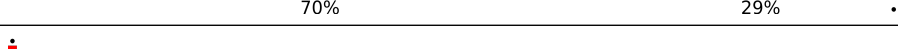
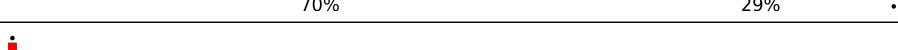
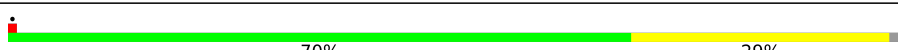
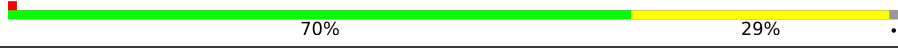
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	13913 (2.52 - 3.52)

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	522	 69% 30% .
1	2	522	 70% 29% .
1	3	522	 70% 29% .
1	4	522	 70% 29% .

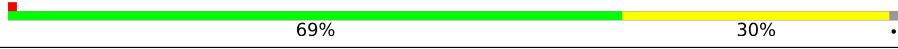
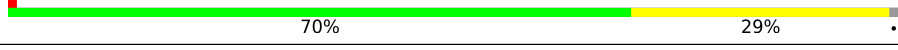
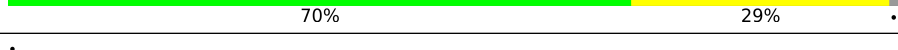
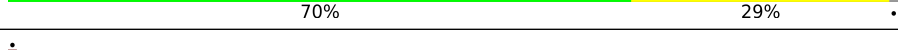
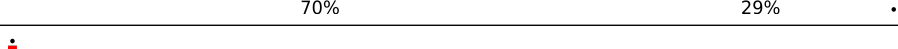
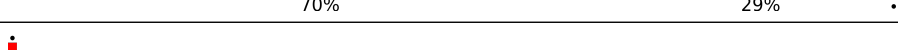
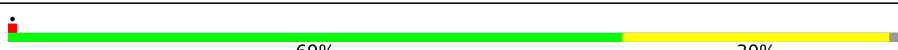
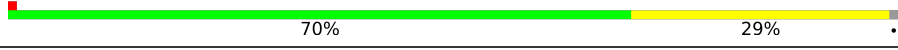
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Mol	Chain	Length	Quality of chain
1	5	522	
1	6	522	
1	7	522	
1	8	522	
1	A	522	
1	B	522	
1	C	522	
1	D	522	
1	E	522	
1	F	522	
1	G	522	
1	H	522	
1	I	522	
1	J	522	
1	K	522	
1	L	522	
1	M	522	
1	N	522	
1	O	522	
1	P	522	
1	Q	522	
1	R	522	
1	S	522	
1	T	522	
1	U	522	

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Mol	Chain	Length	Quality of chain
1	V	522	
1	W	522	
1	X	522	
1	Y	522	
1	Z	522	
1	a	522	
1	b	522	
1	c	522	
1	d	522	
1	e	522	
1	f	522	
1	g	522	
1	h	522	
1	i	522	
1	j	522	
1	k	522	
1	l	522	
1	m	522	
1	n	522	
1	o	522	
1	p	522	
1	q	522	
1	r	522	
1	s	522	
1	t	522	

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Mol	Chain	Length	Quality of chain
1	u	522	70%29%
1	v	522	70%29%
1	w	522	70%29%
1	x	522	70%29%
1	y	522	70%29%
1	z	522	70%29%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 250200 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	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	B	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	C	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	D	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	E	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	F	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	G	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	H	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	I	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	J	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	K	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	L	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	M	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	N	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	O	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	P	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		
1	Q	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	S	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	T	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	U	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	V	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	W	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	X	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	Y	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	Z	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	a	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	b	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	c	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	d	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	e	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	f	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	g	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	h	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	i	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	j	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	k	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	l	519	Total 4170	C 2620	N 735	O 802	S 13	4	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	n	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	o	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	p	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	q	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	r	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	s	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	t	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	u	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	v	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	w	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	x	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	y	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	z	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	1	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	2	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	3	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	4	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	5	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	6	519	Total 4170	C 2620	N 735	O 802	S 13	4	0
1	7	519	Total 4170	C 2620	N 735	O 802	S 13	4	0

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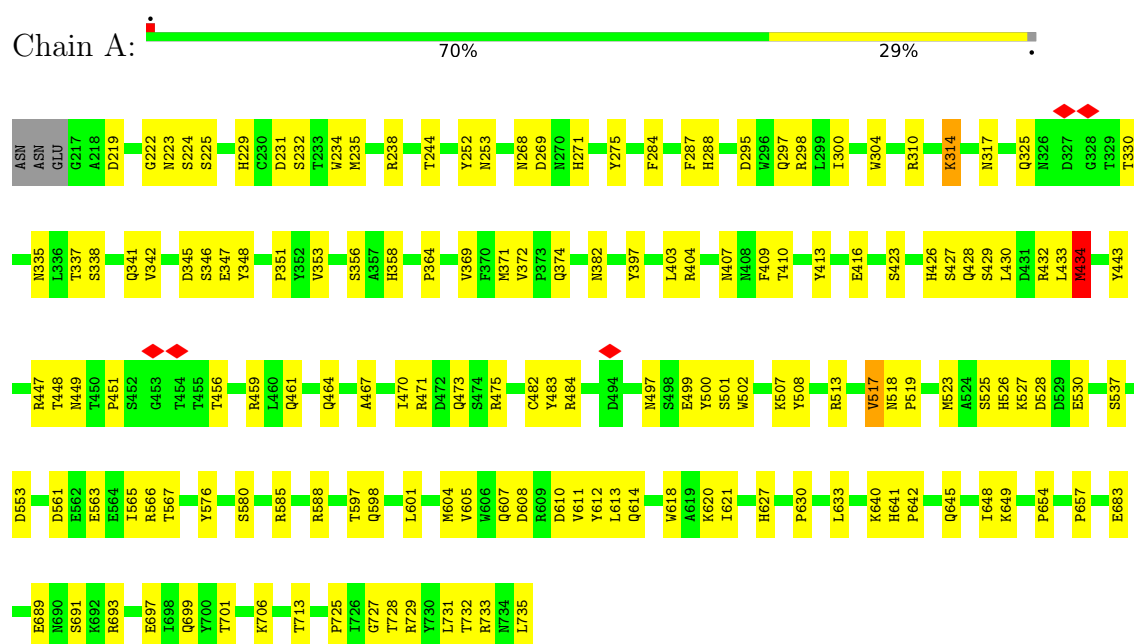
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	519	Total	C	N	O	S	4	0
			4170	2620	735	802	13		

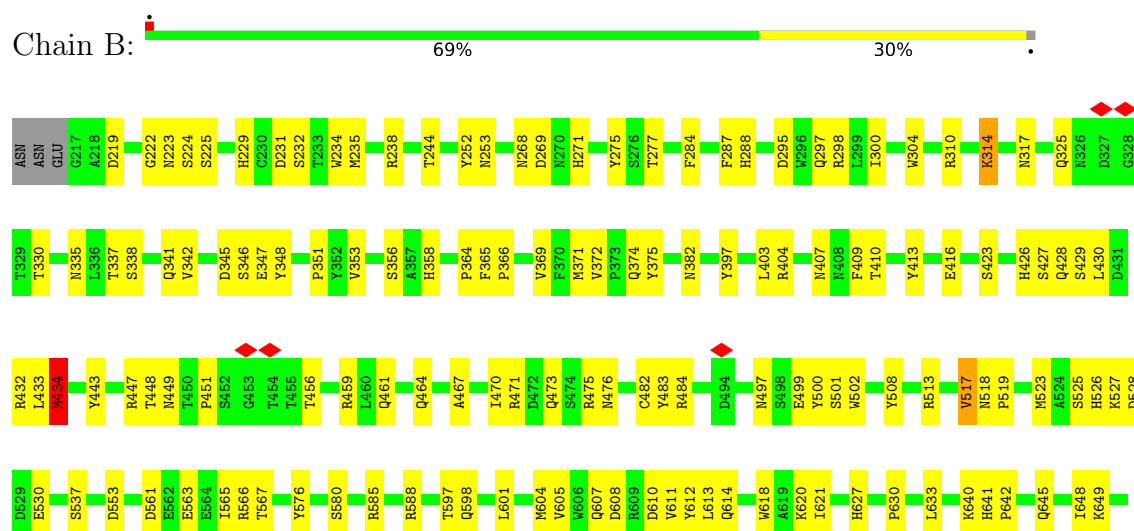
3 Residue-property plots

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.

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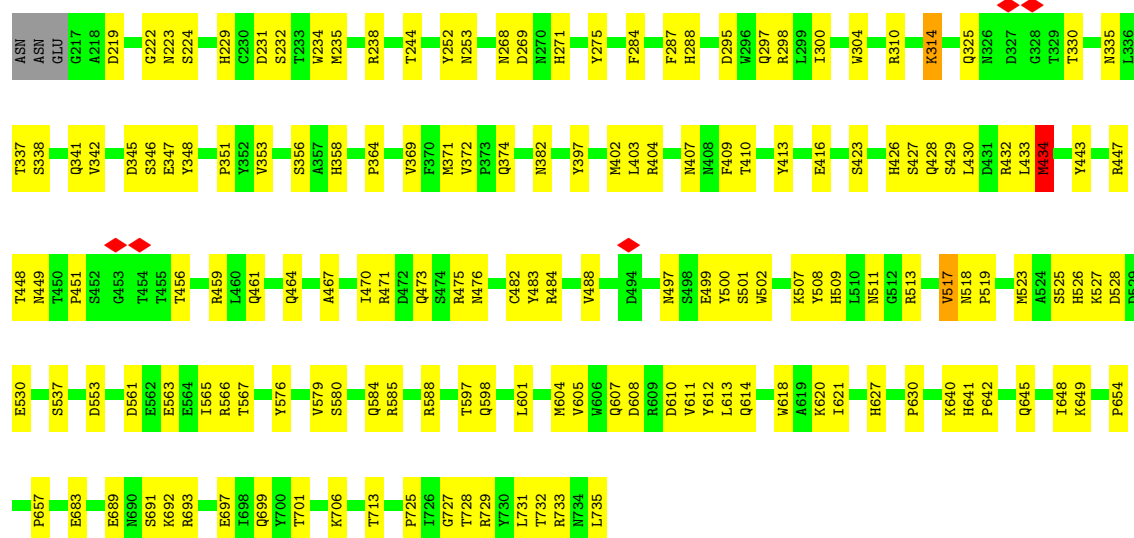


• Molecule 1: Capsid protein VP1

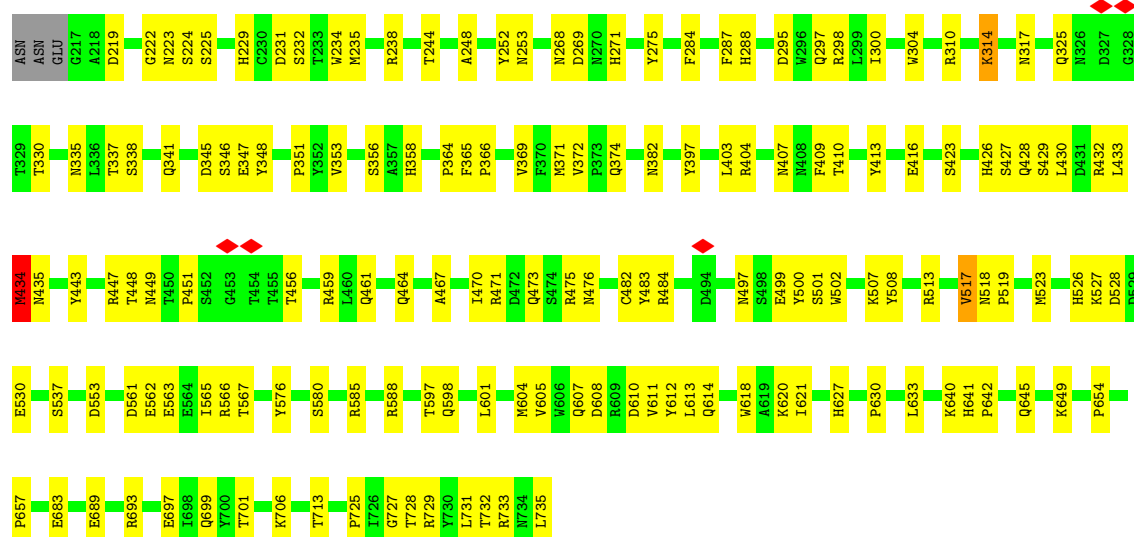




• Molecule 1: Capsid protein VP1

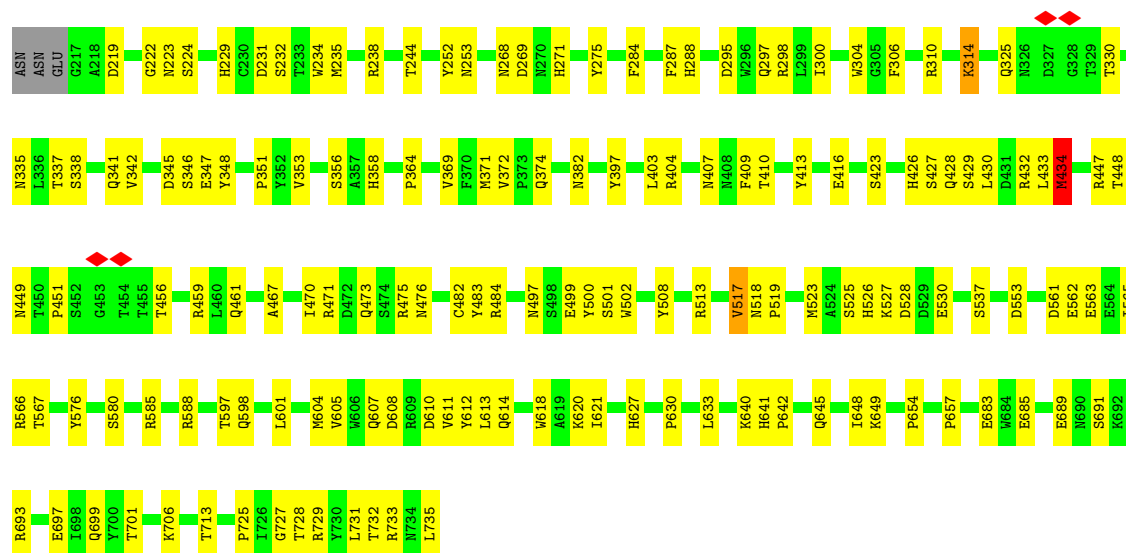


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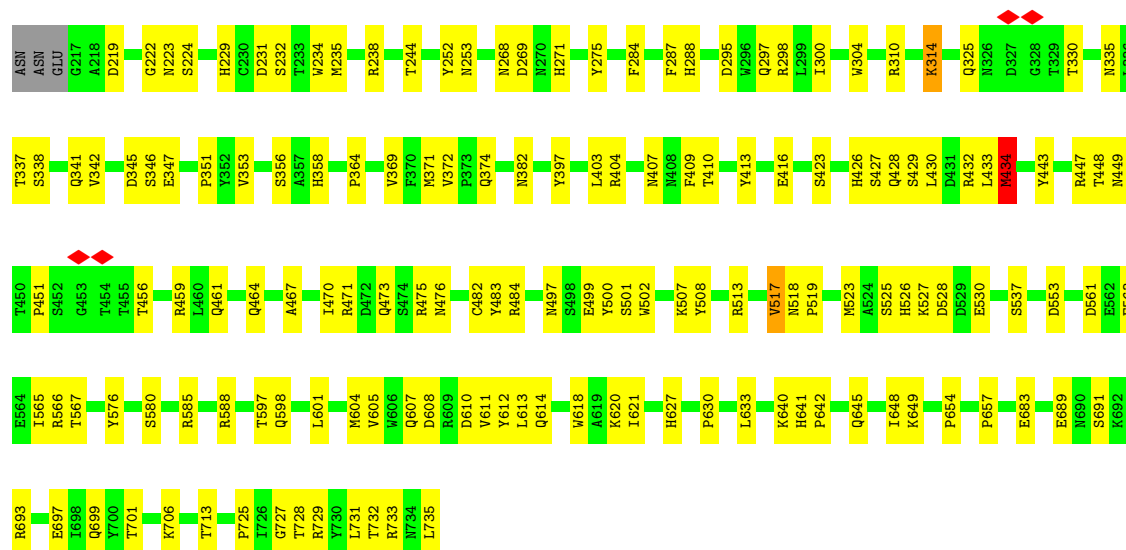


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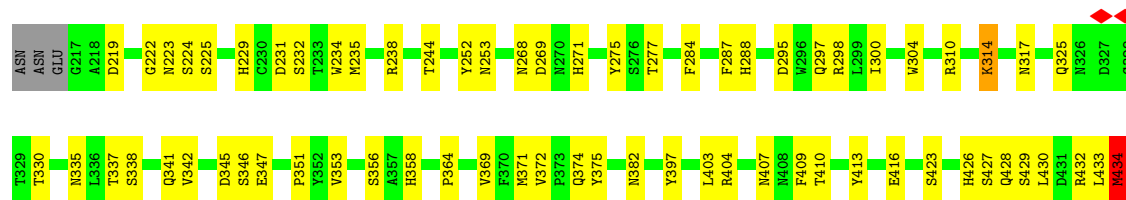


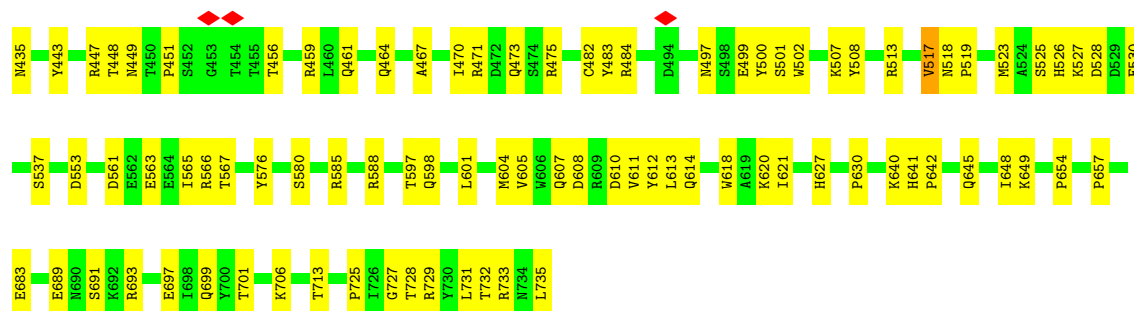


• Molecule 1: Capsid protein VP1

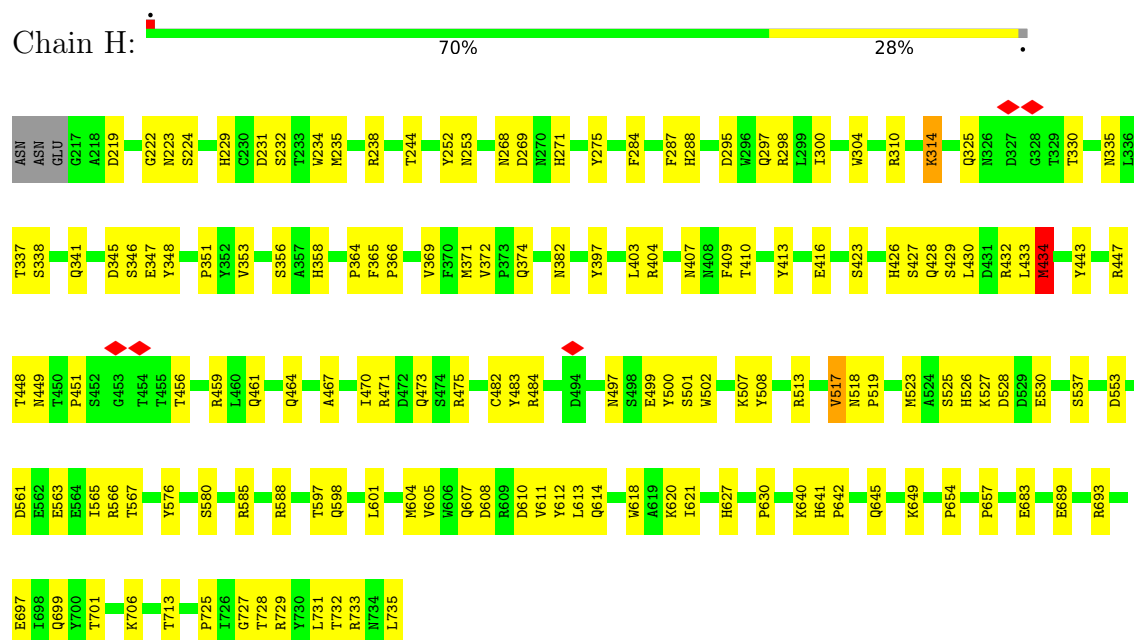


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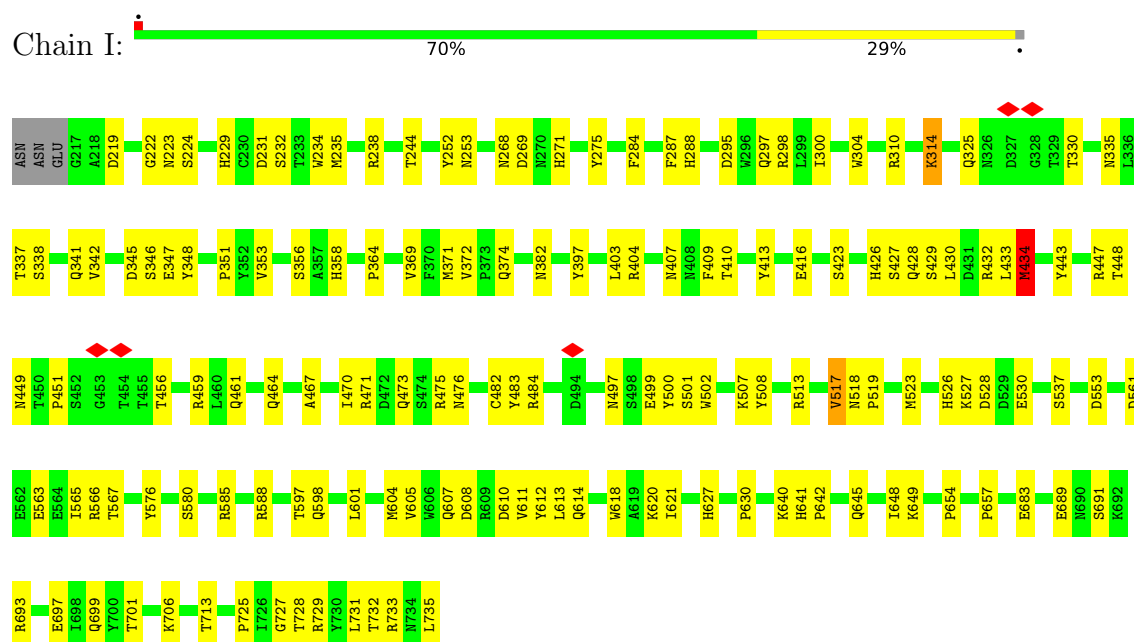




• Molecule 1: Capsid protein VP1



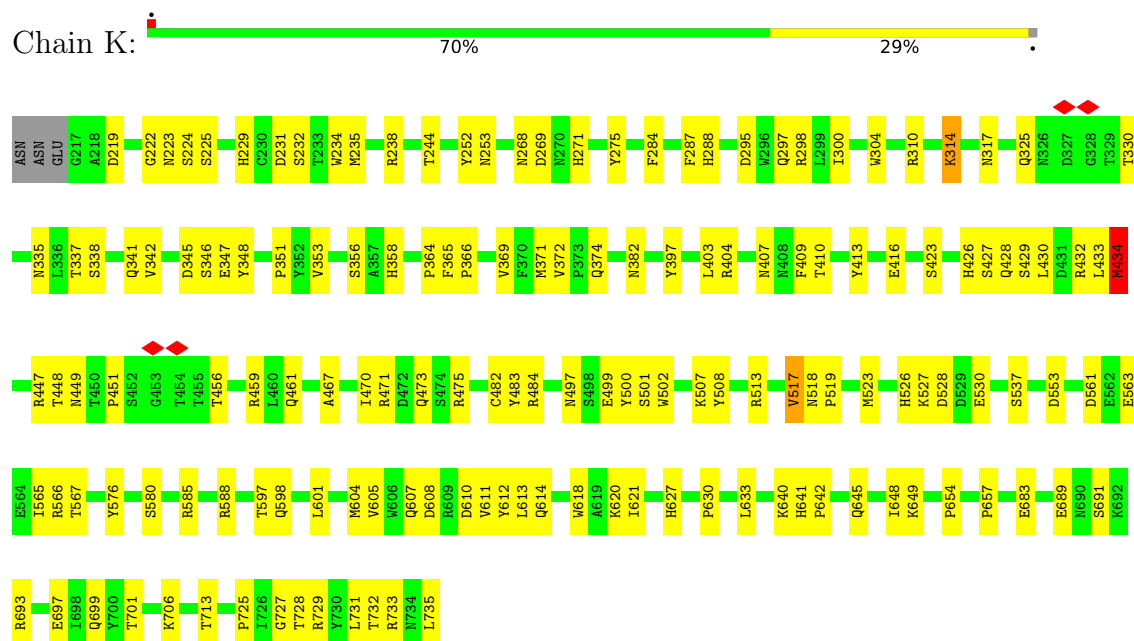
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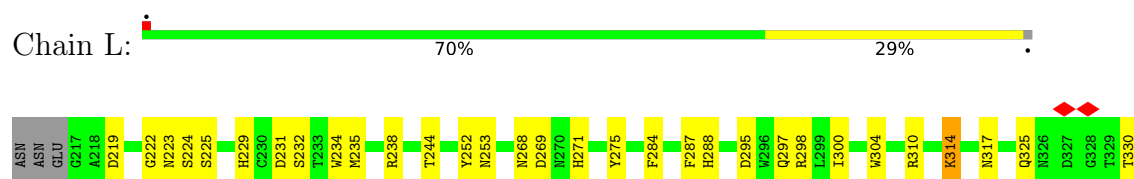
- Molecule 1: Capsid protein VP1

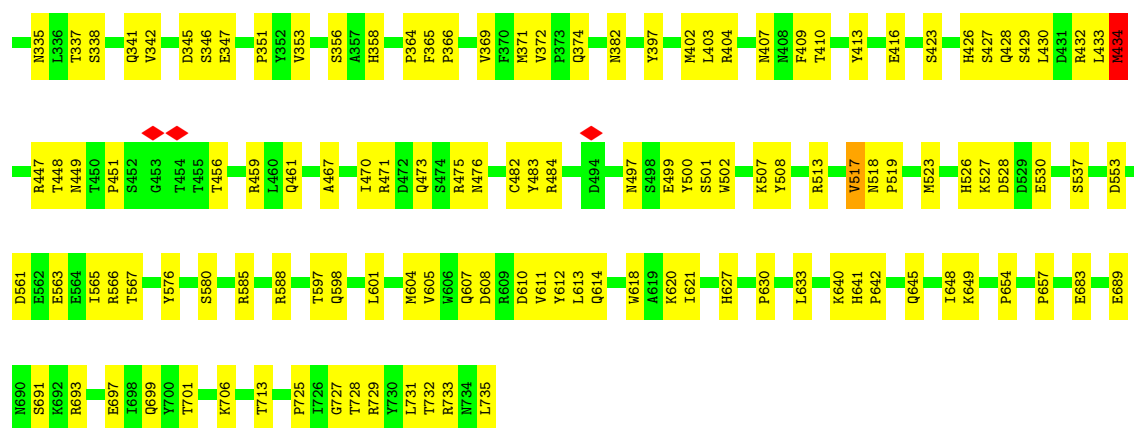


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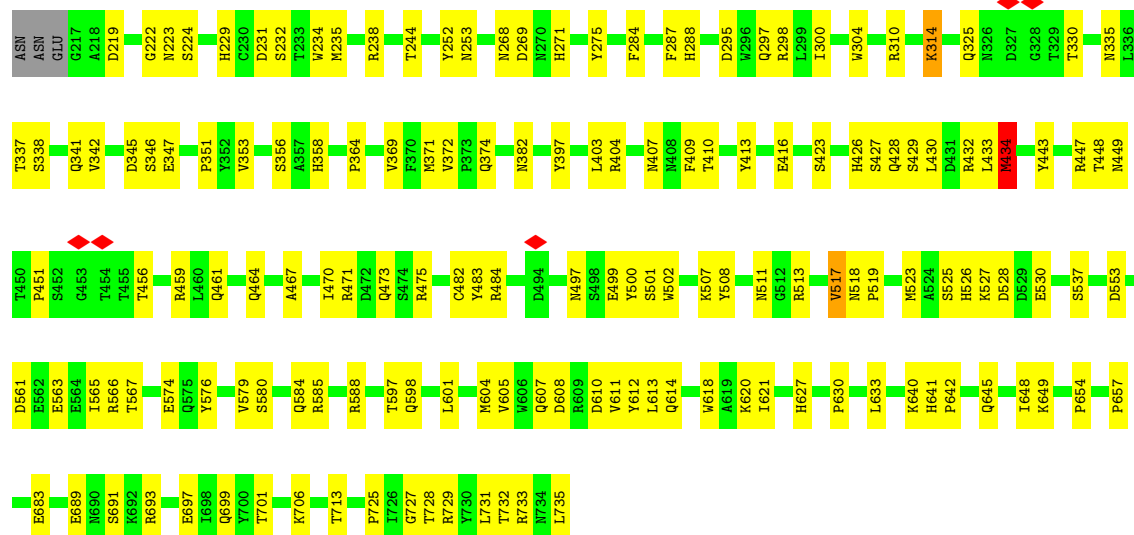


- Molecule 1: Capsid protein VP1

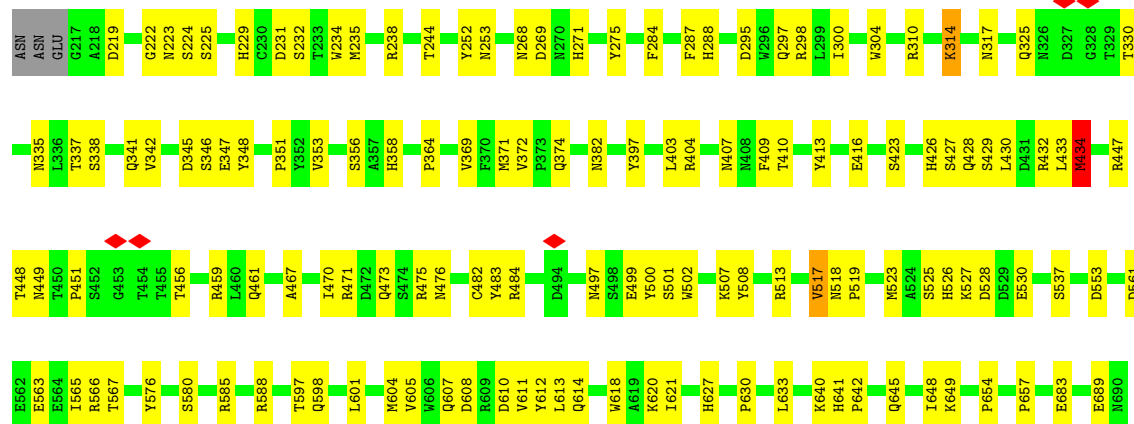




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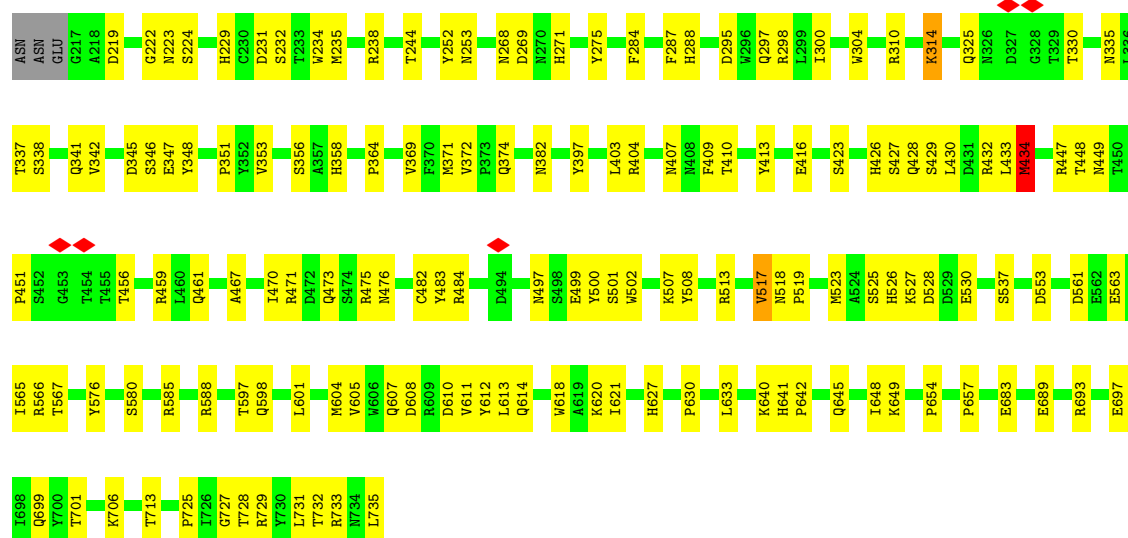


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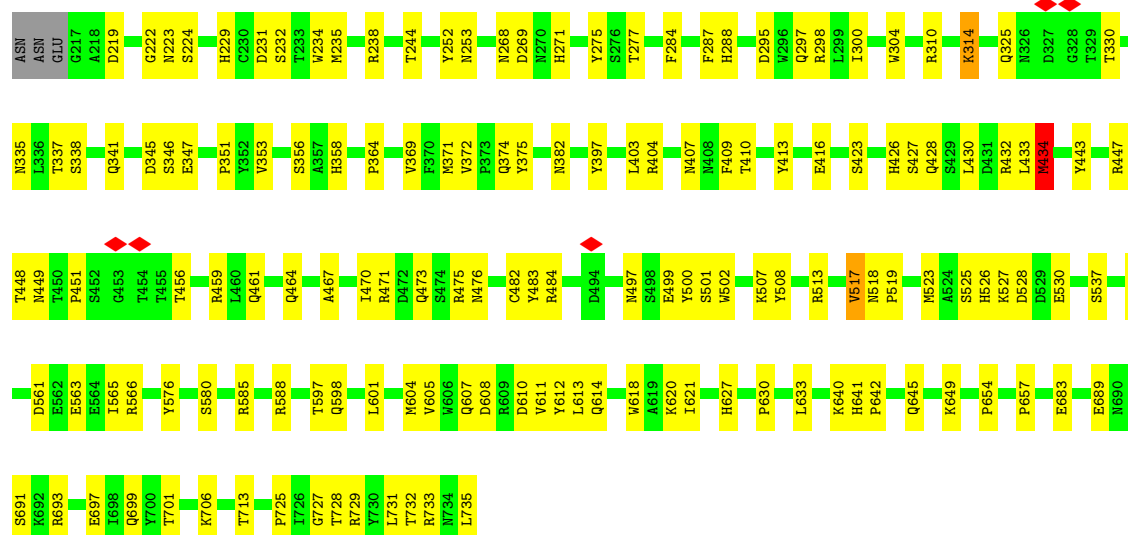




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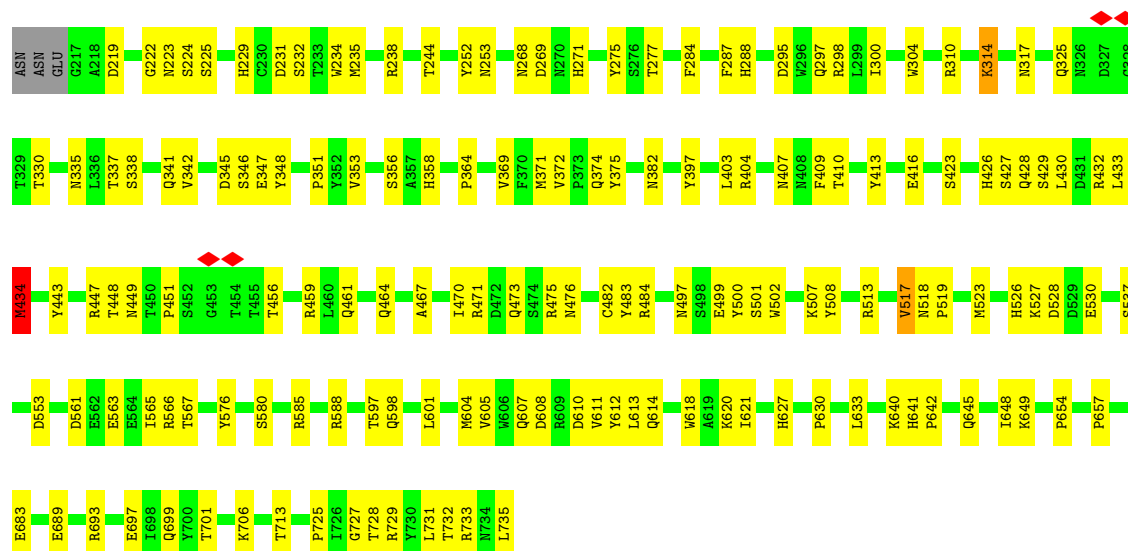


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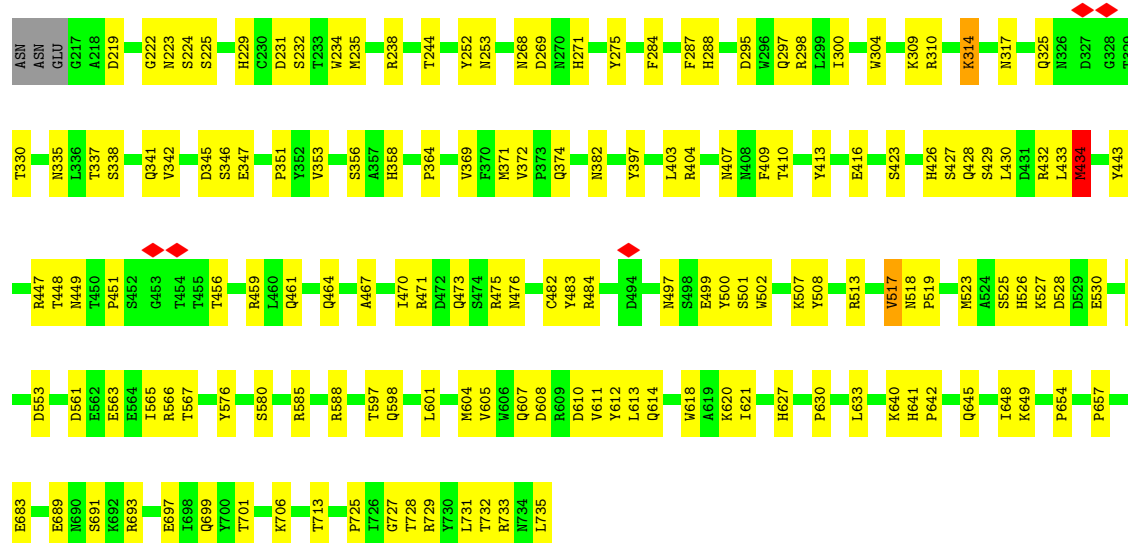


• Molecule 1: Capsid protein VP1

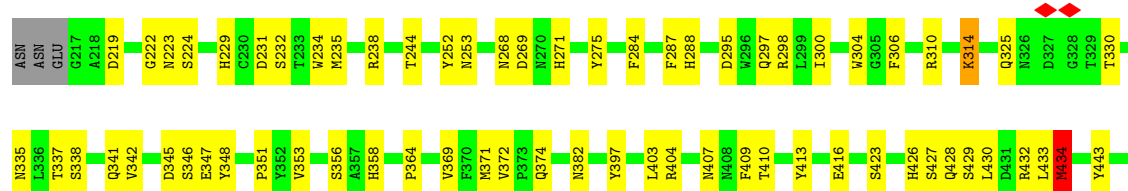


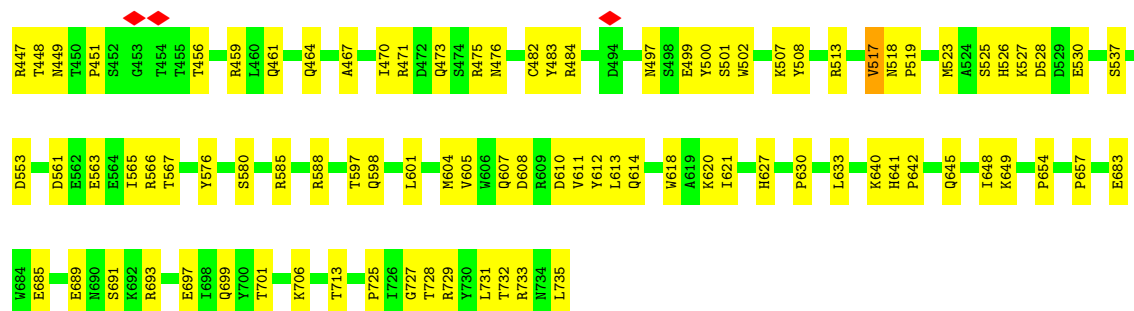


• Molecule 1: Capsid protein VP1

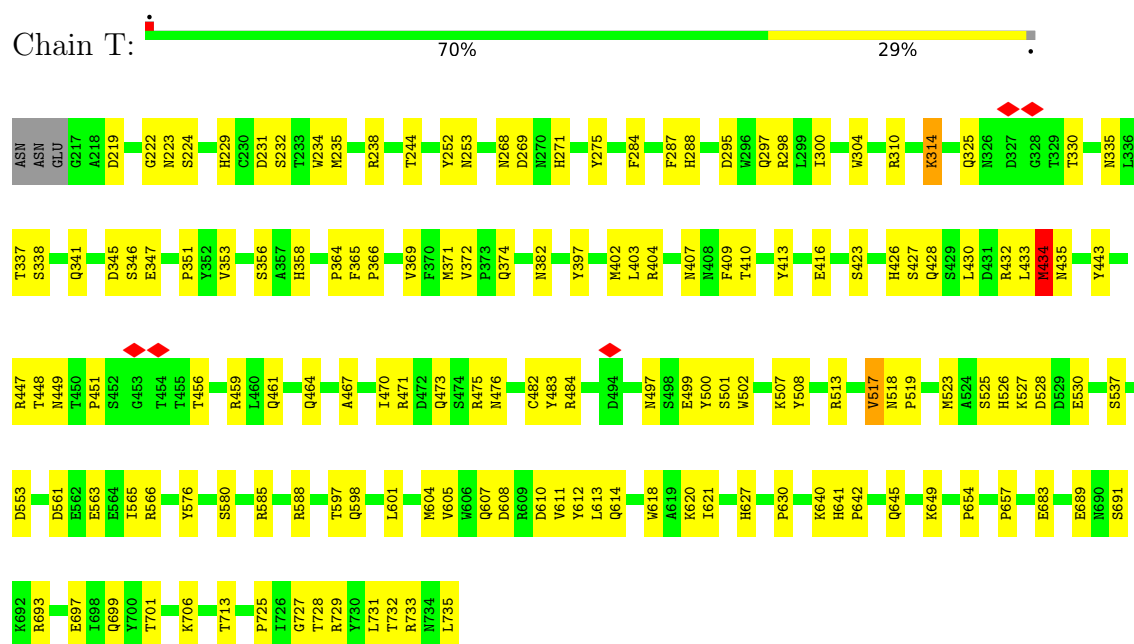


• Molecule 1: Capsid protein VP1

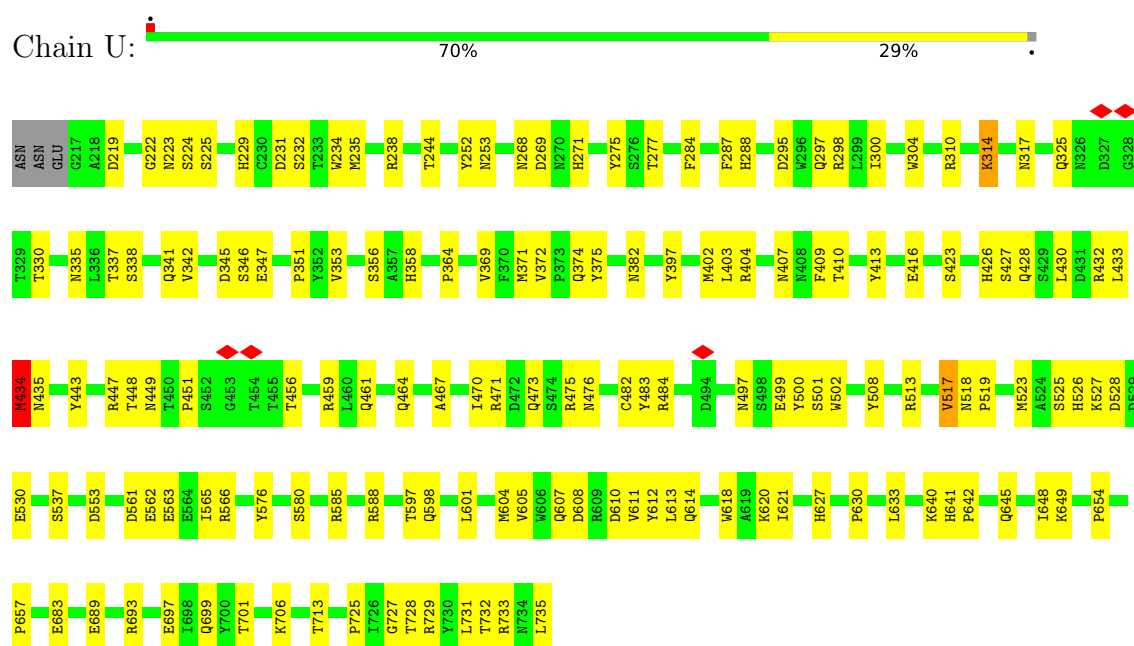




• Molecule 1: Capsid protein VP1



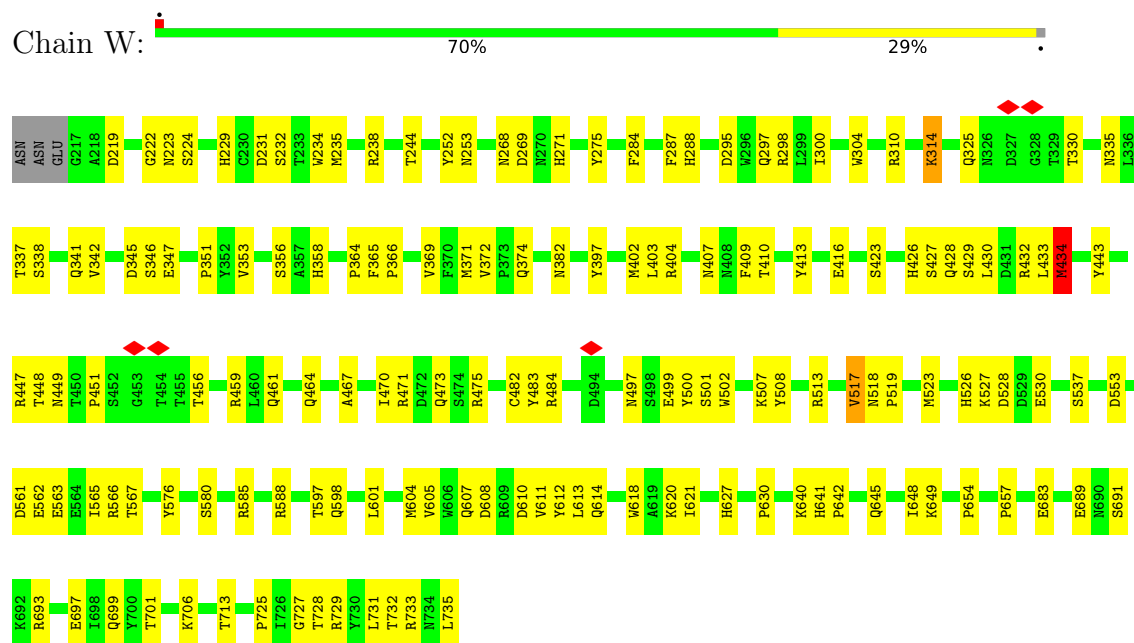
• Molecule 1: Capsid protein VP1



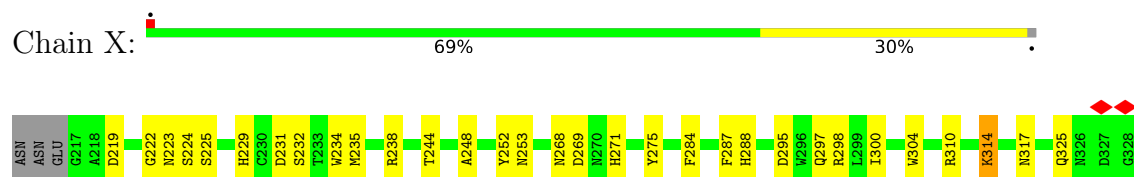
- Molecule 1: Capsid protein VP1

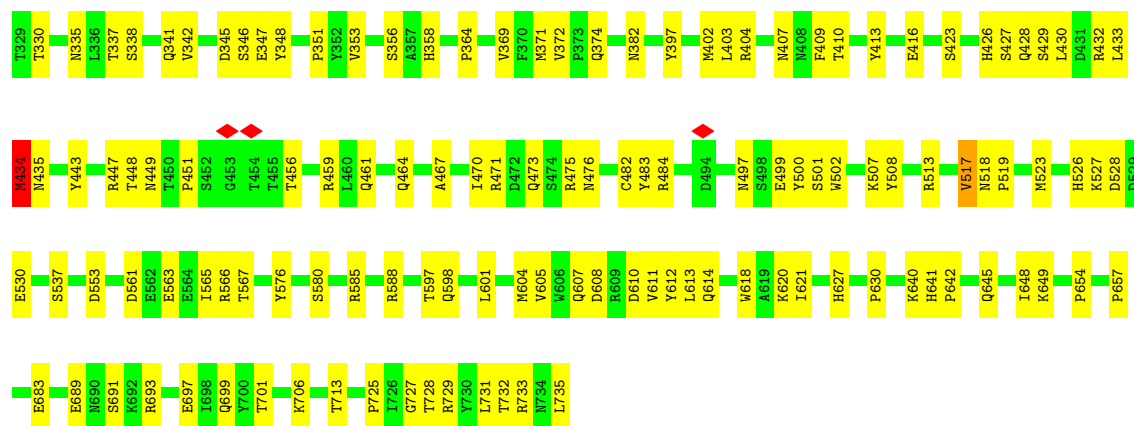


- Molecule 1: Capsid protein VP1

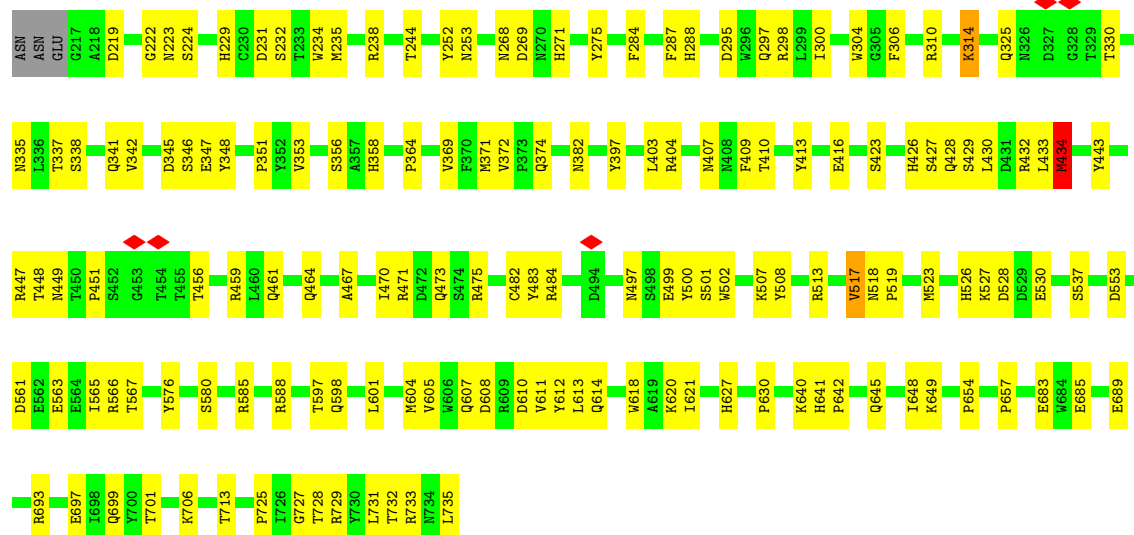


- Molecule 1: Capsid protein VP1

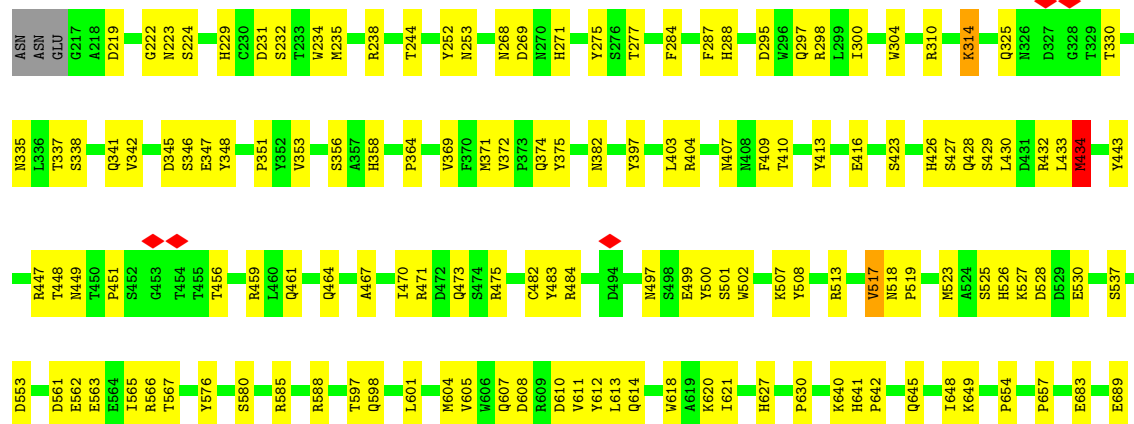




• Molecule 1: Capsid protein VP1



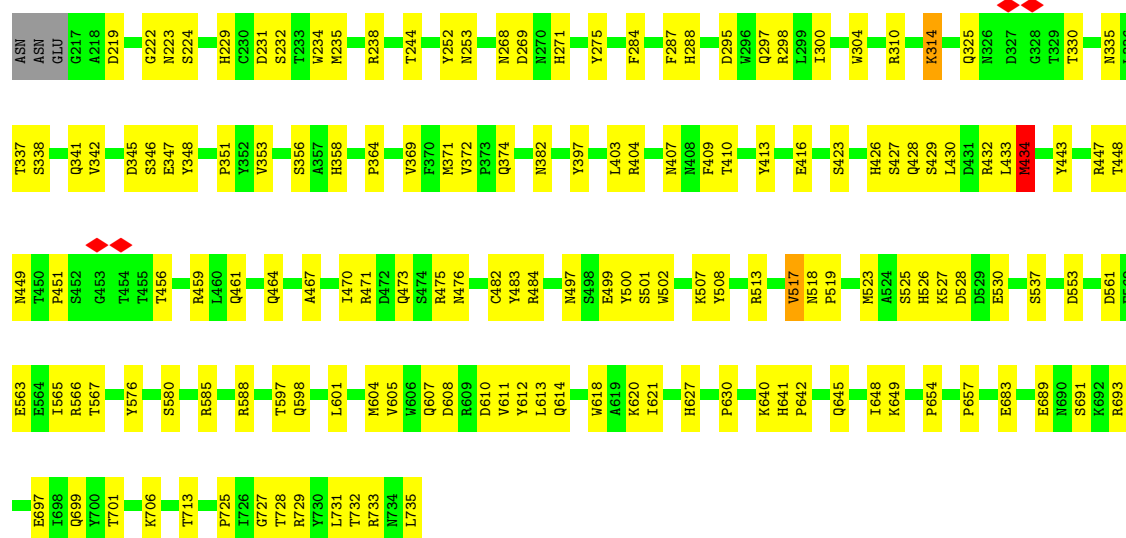
• Molecule 1: Capsid protein VP1





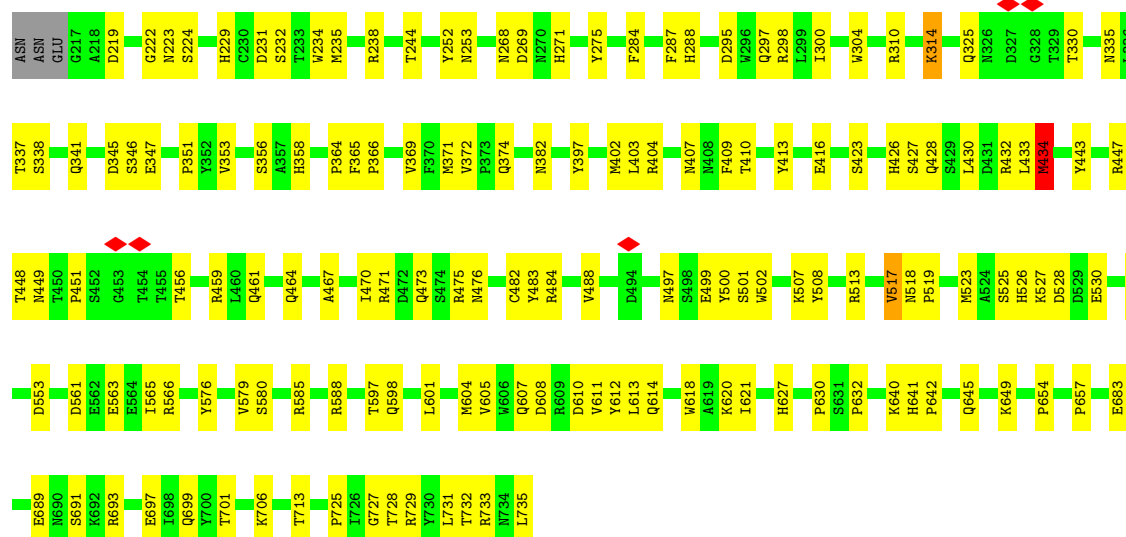
• Molecule 1: Capsid protein VP1

Chain a: 70% 29%



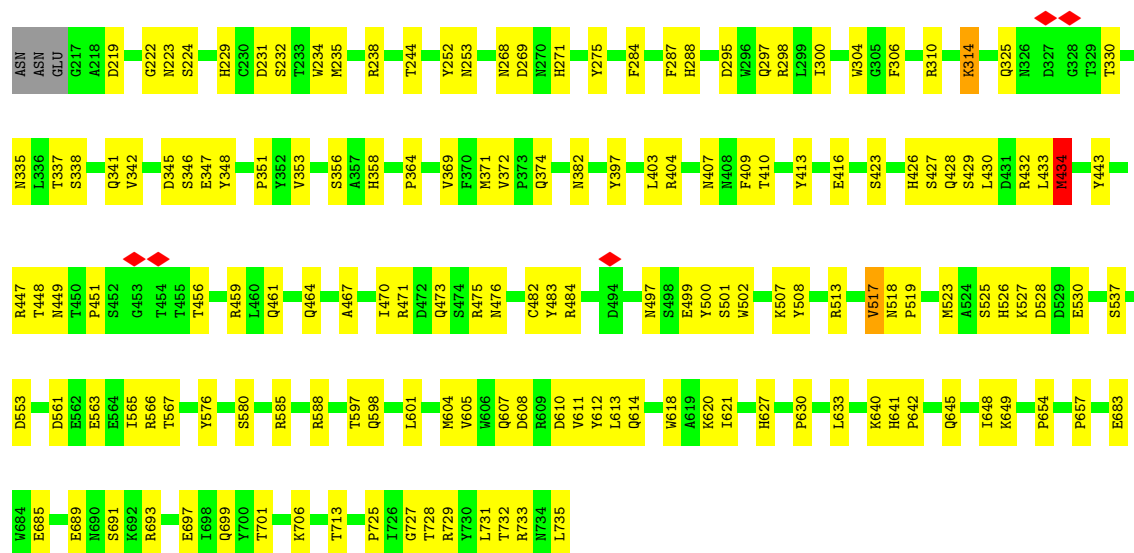
• Molecule 1: Capsid protein VP1

Chain b: 70% 29%



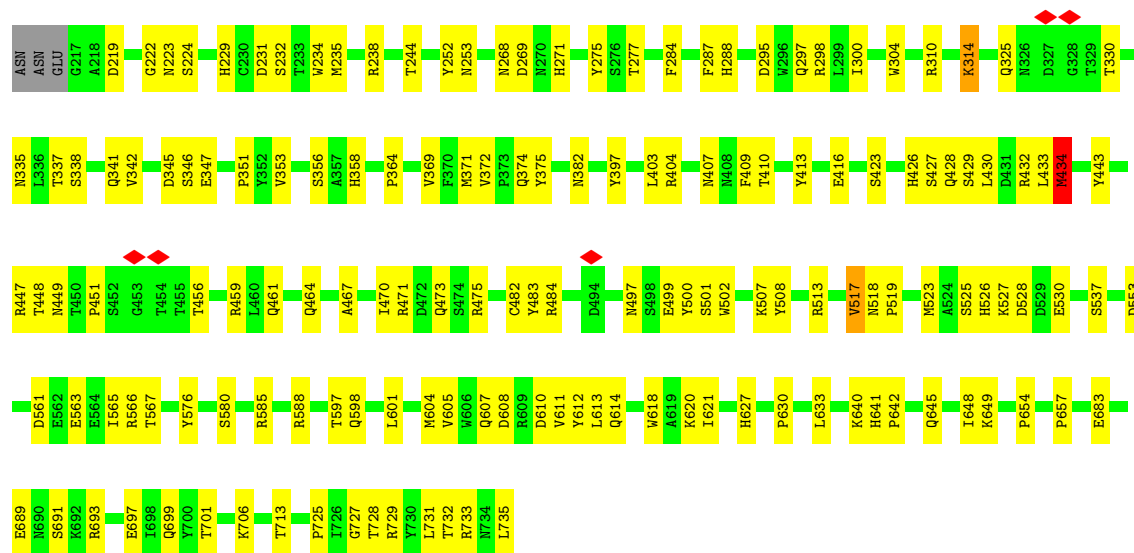
• Molecule 1: Capsid protein VP1

Chain c: 70% 29%



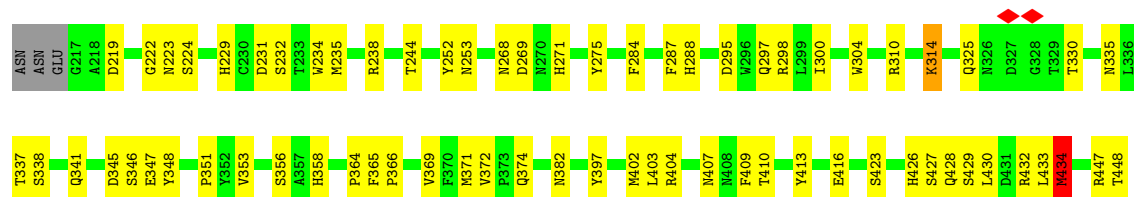
• Molecule 1: Capsid protein VP1

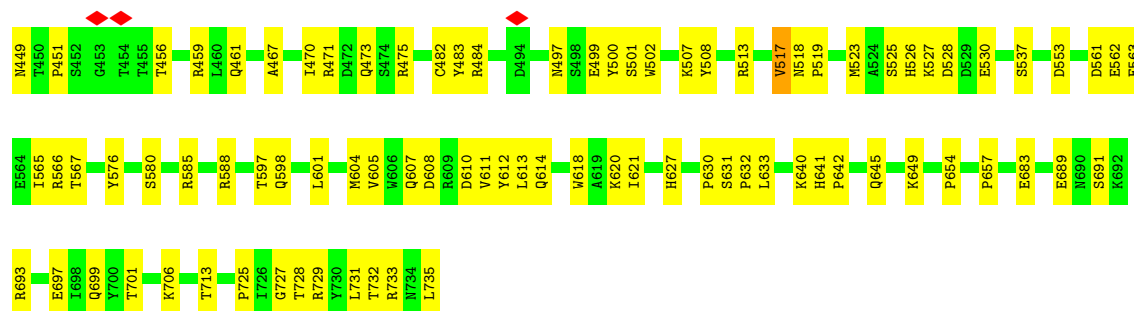
Chain d: 70% 29%



• Molecule 1: Capsid protein VP1

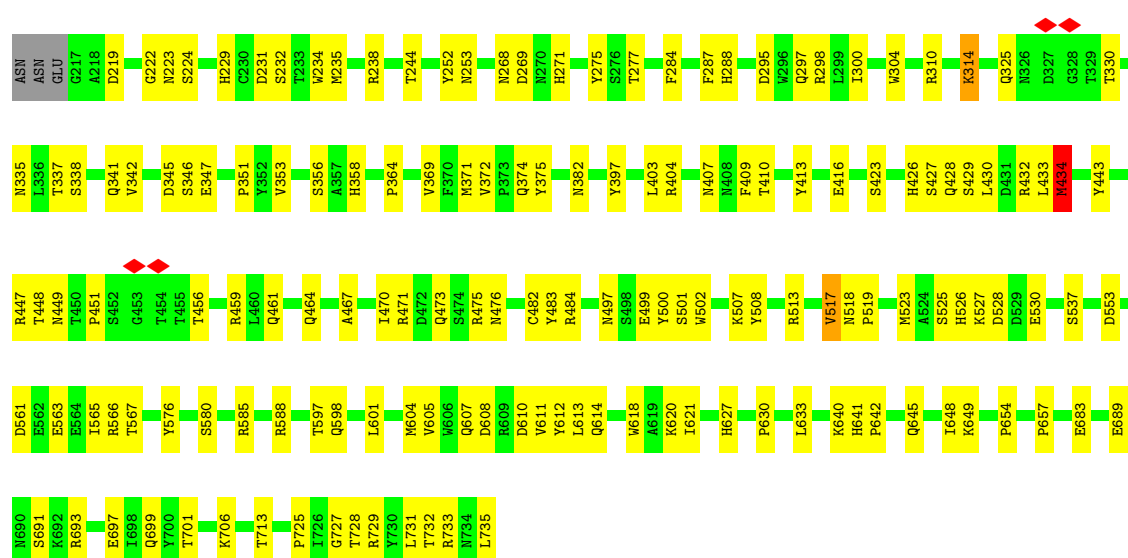
Chain e: 70% 29%





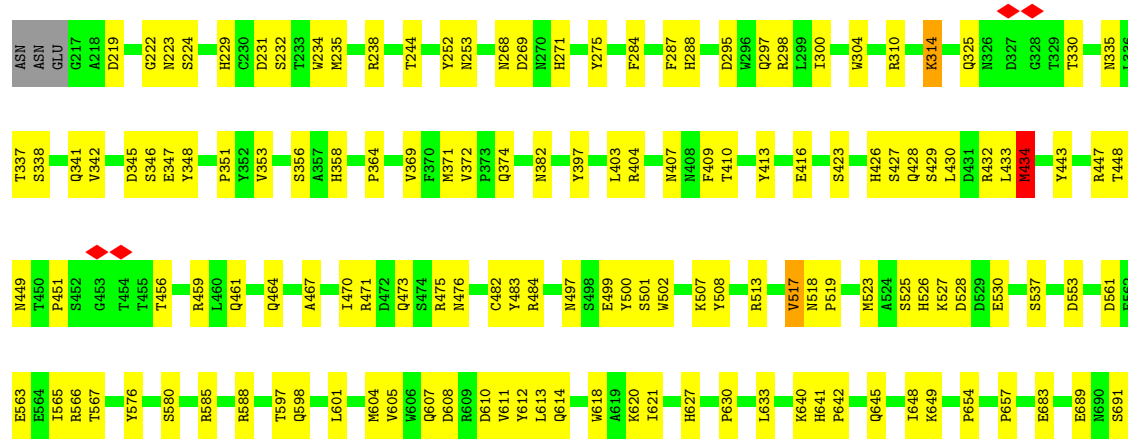
• Molecule 1: Capsid protein VP1

Chain f: 70% 29% .



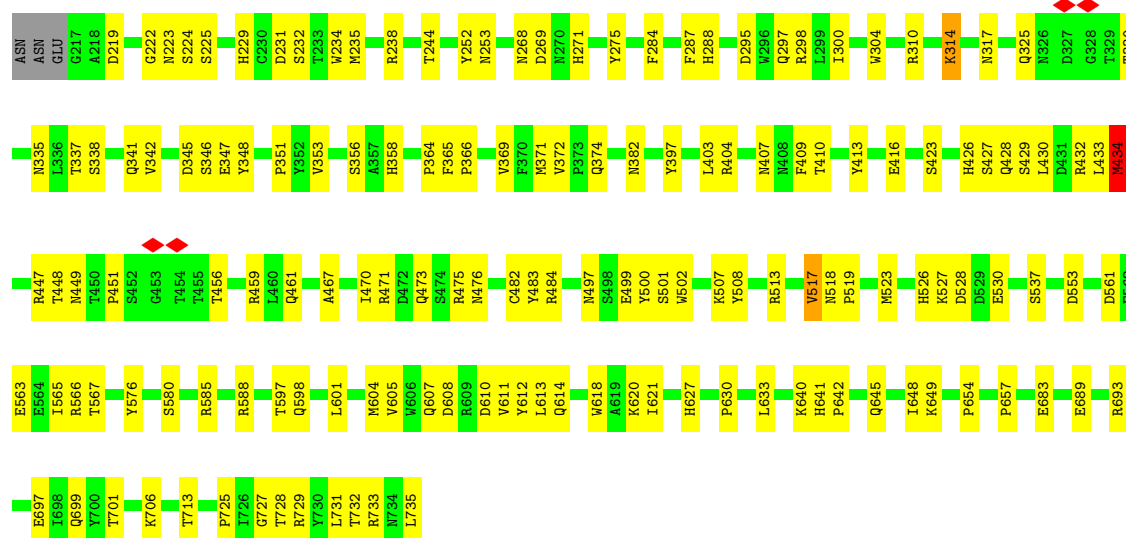
• Molecule 1: Capsid protein VP1

Chain g: 70% 29% .

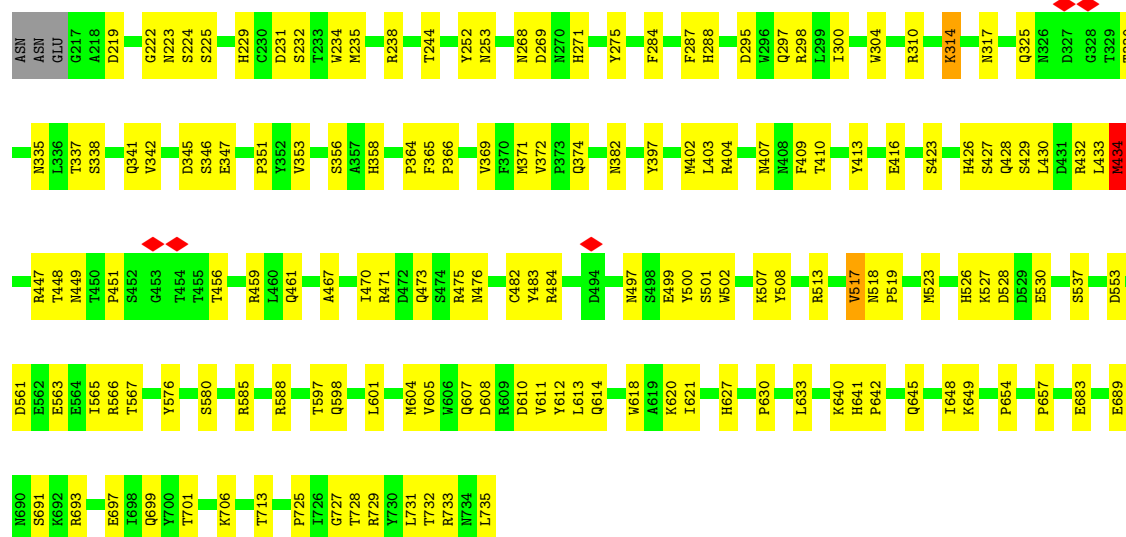




• Molecule 1: Capsid protein VP1

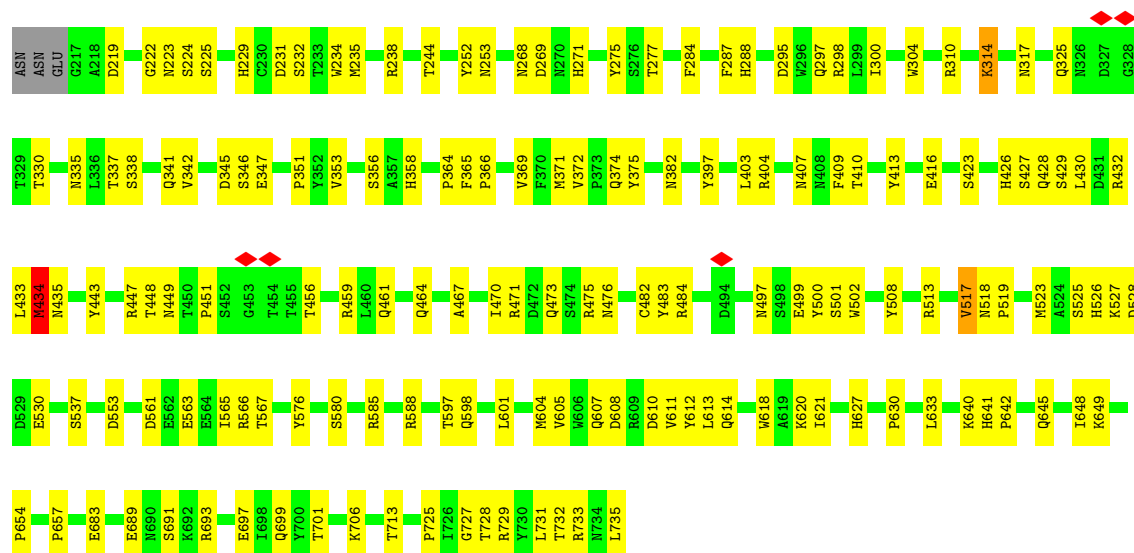


• Molecule 1: Capsid protein VP1

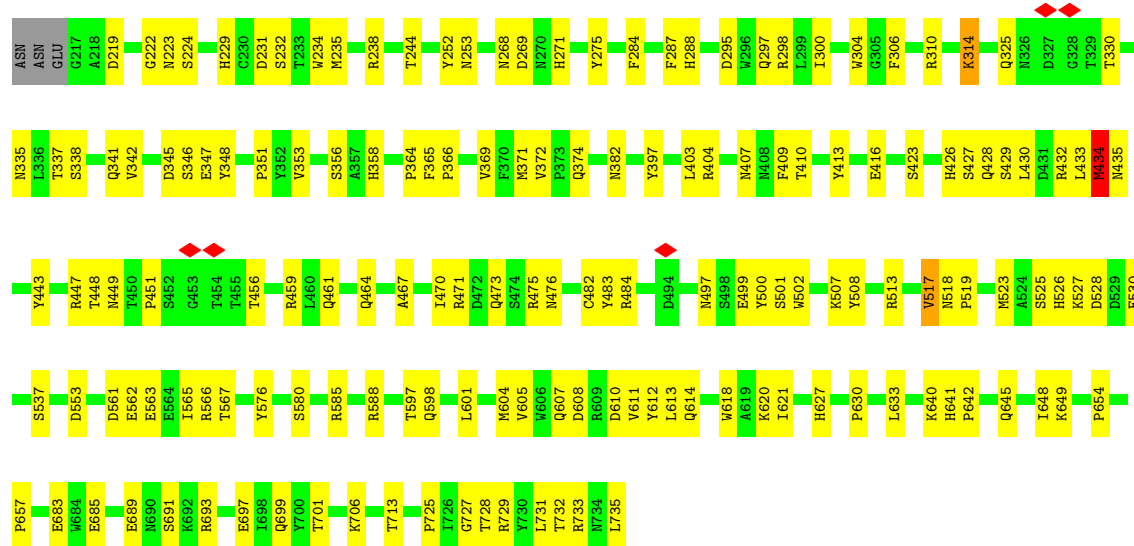


• Molecule 1: Capsid protein VP1

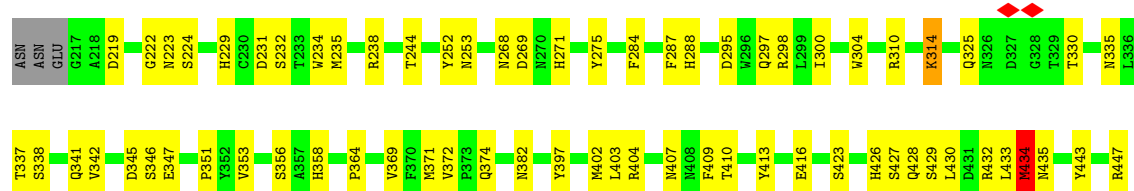


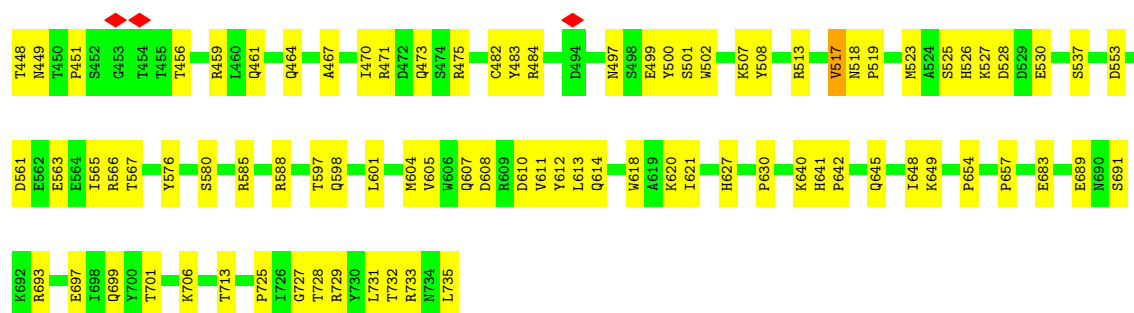


• Molecule 1: Capsid protein VP1

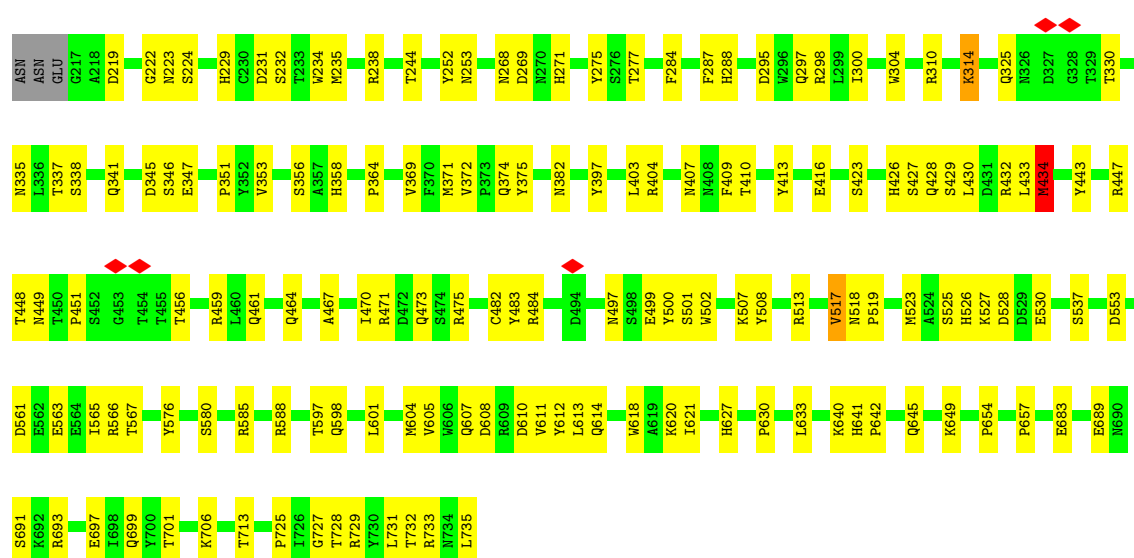


• Molecule 1: Capsid protein VP1

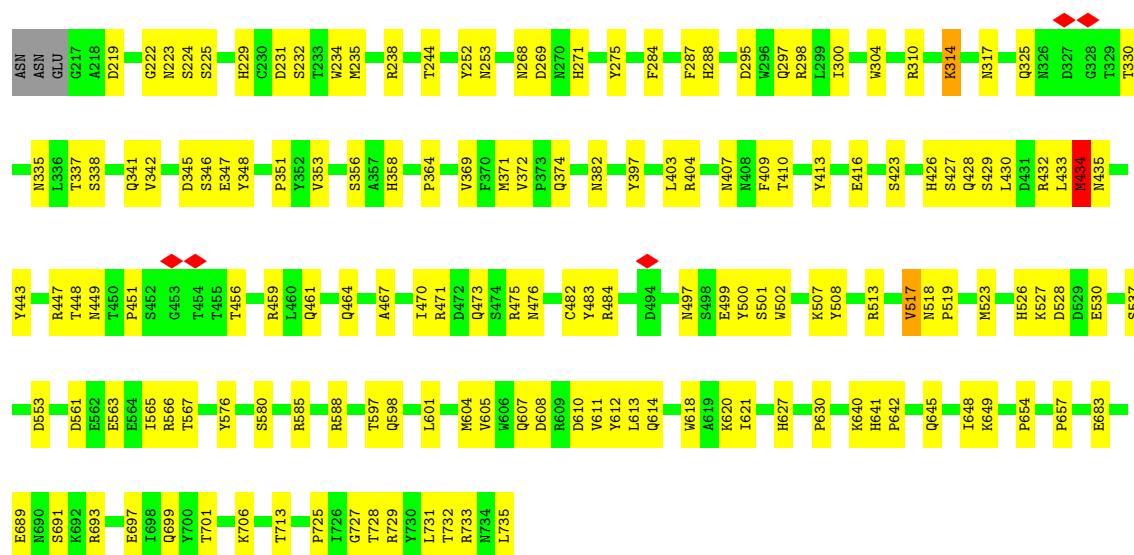




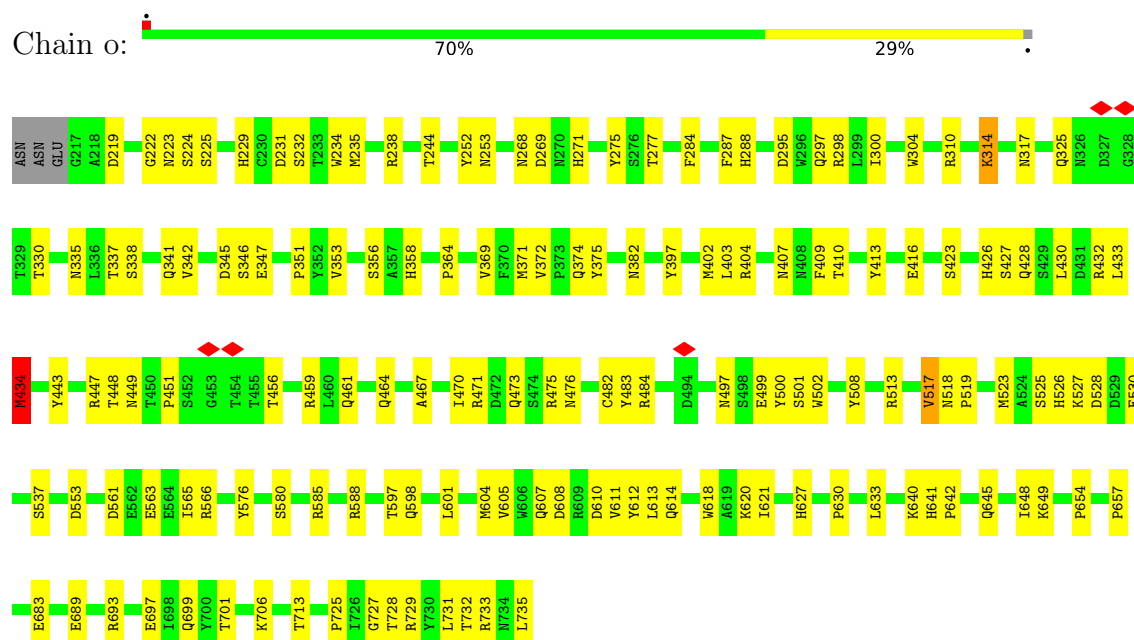
• Molecule 1: Capsid protein VP1



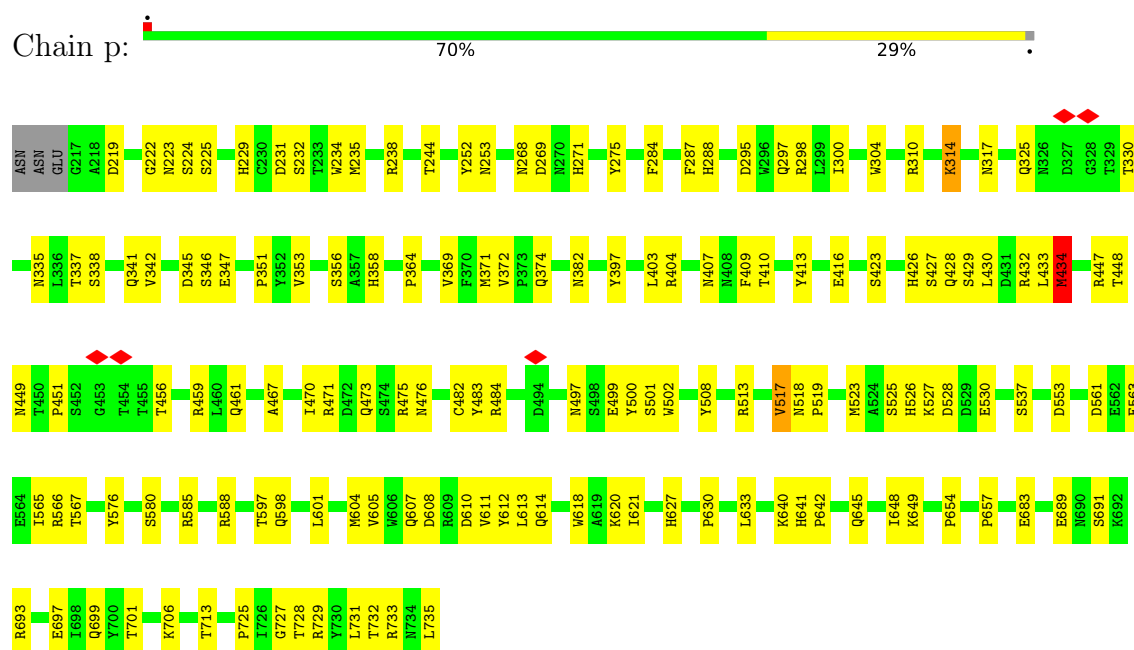
• Molecule 1: Capsid protein VP1



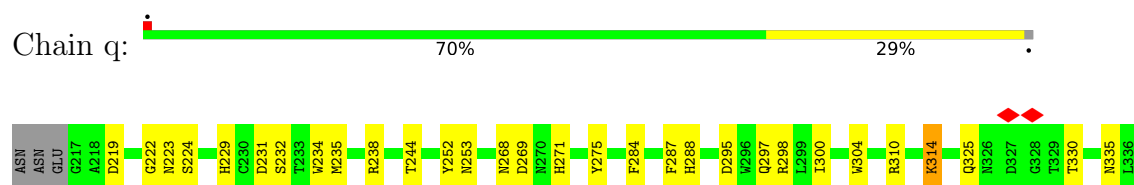
- Molecule 1: Capsid protein VP1



- Molecule 1: Capsid protein VP1

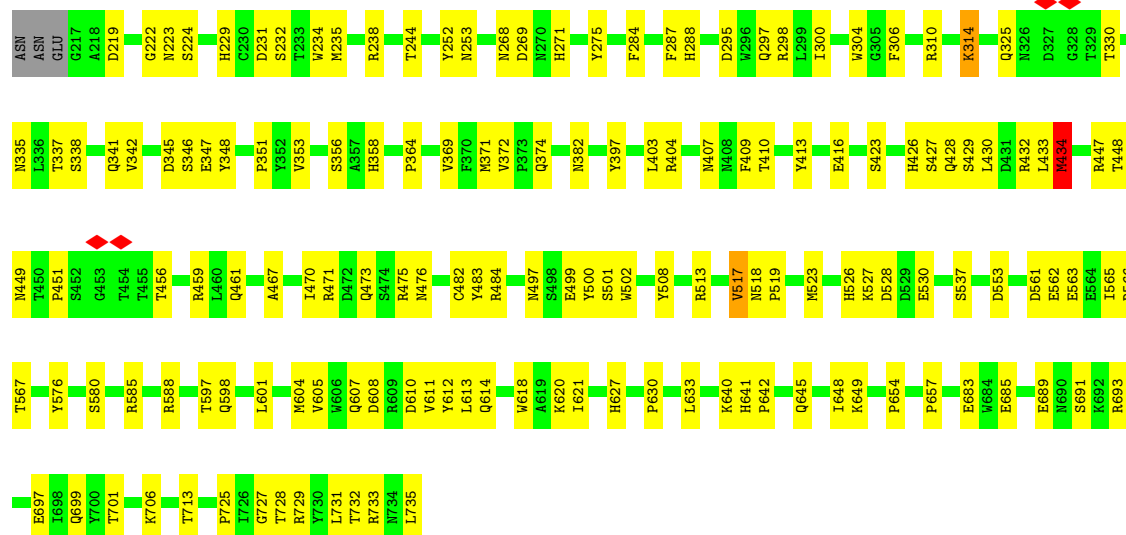


- Molecule 1: Capsid protein VP1

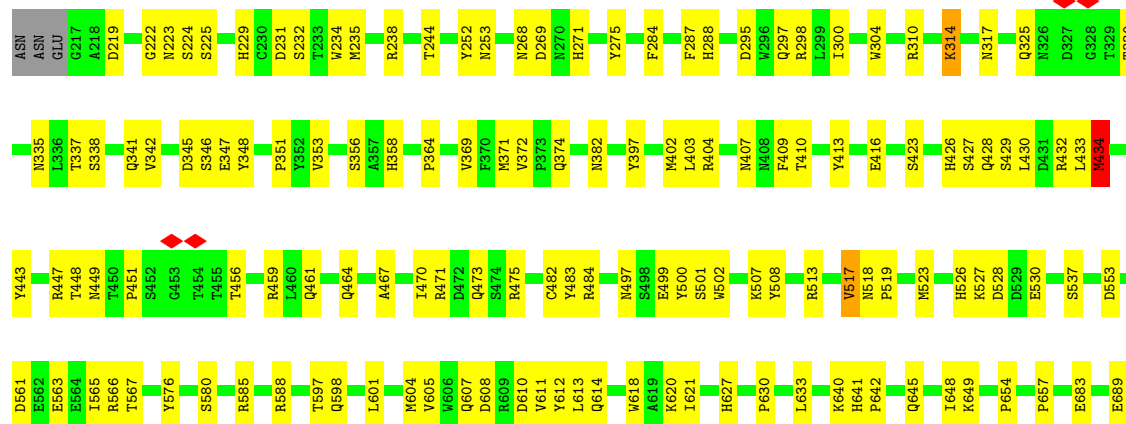




• Molecule 1: Capsid protein VP1

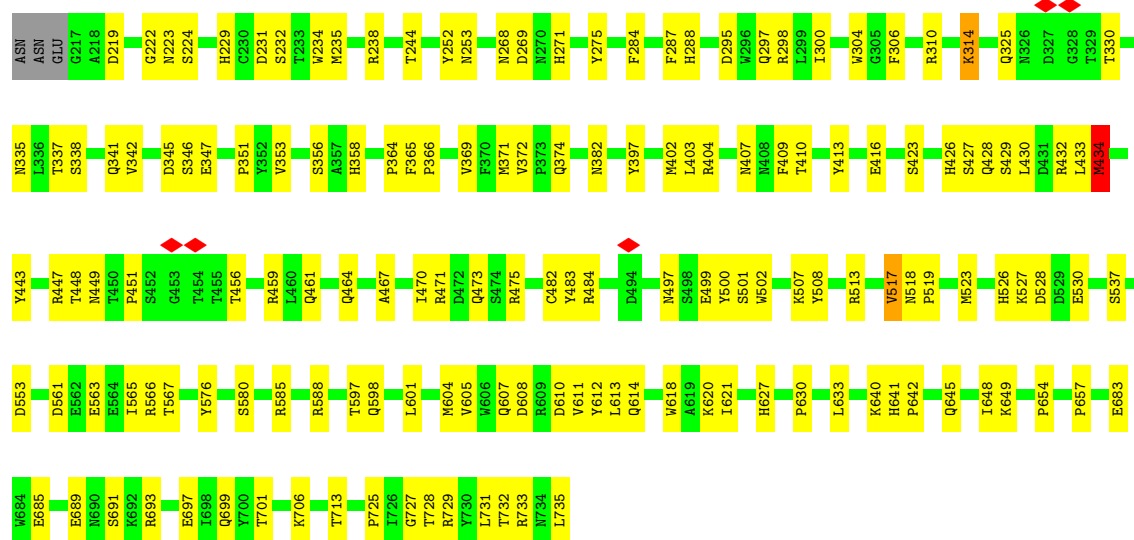


• Molecule 1: Capsid protein VP1

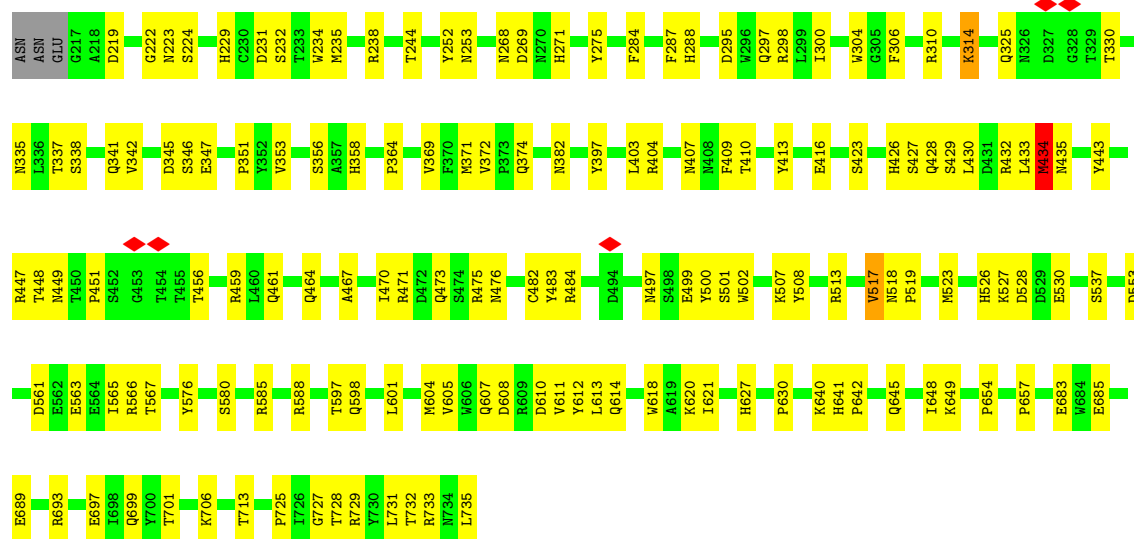




• Molecule 1: Capsid protein VP1

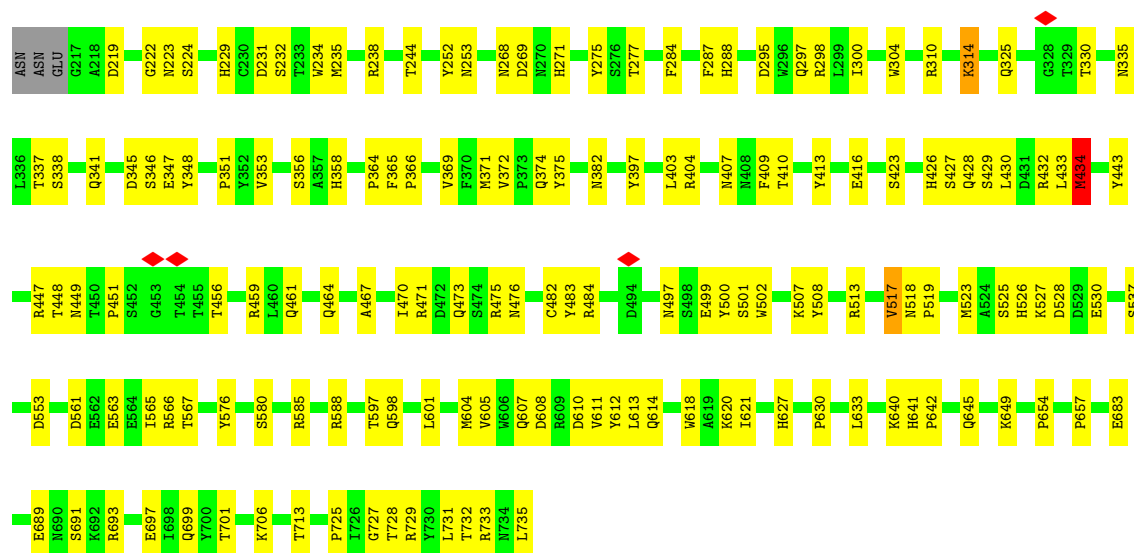


• Molecule 1: Capsid protein VP1

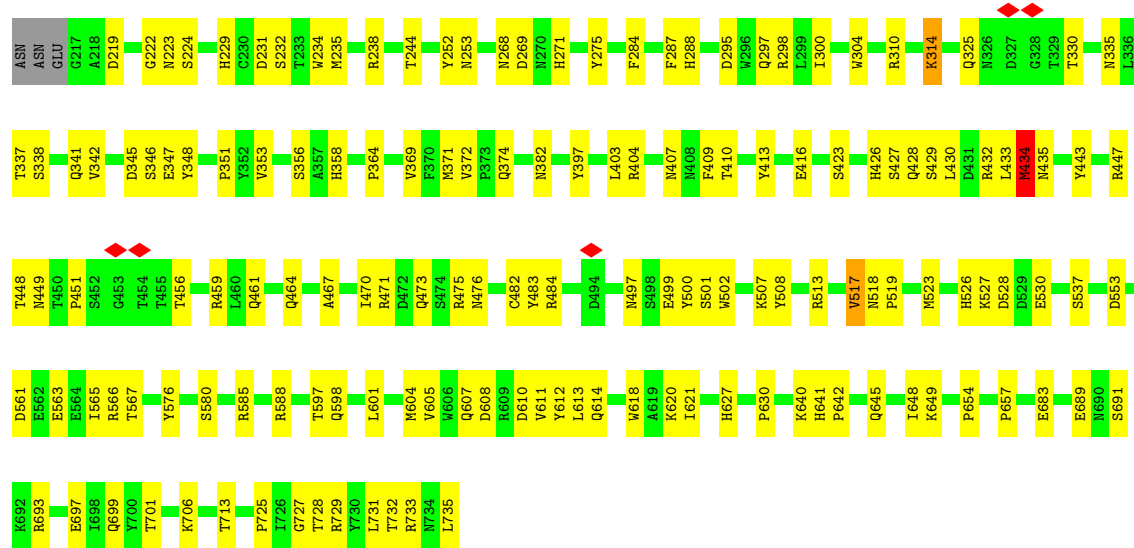


• Molecule 1: Capsid protein VP1

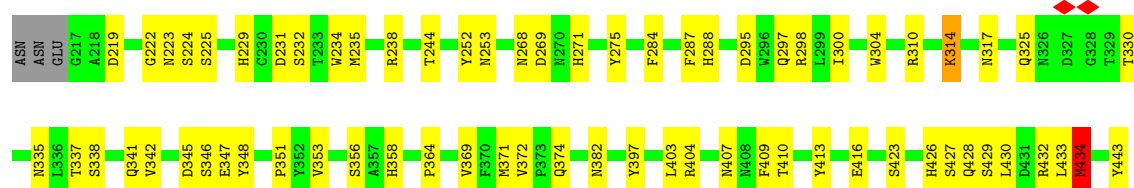


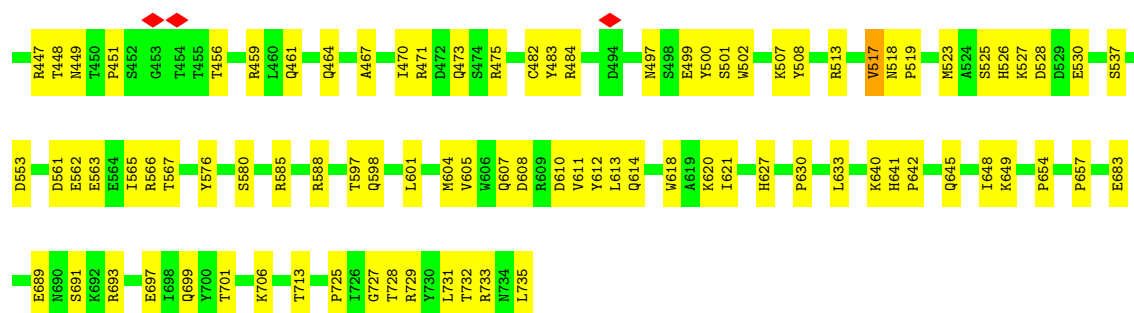


- Molecule 1: Capsid protein VP1

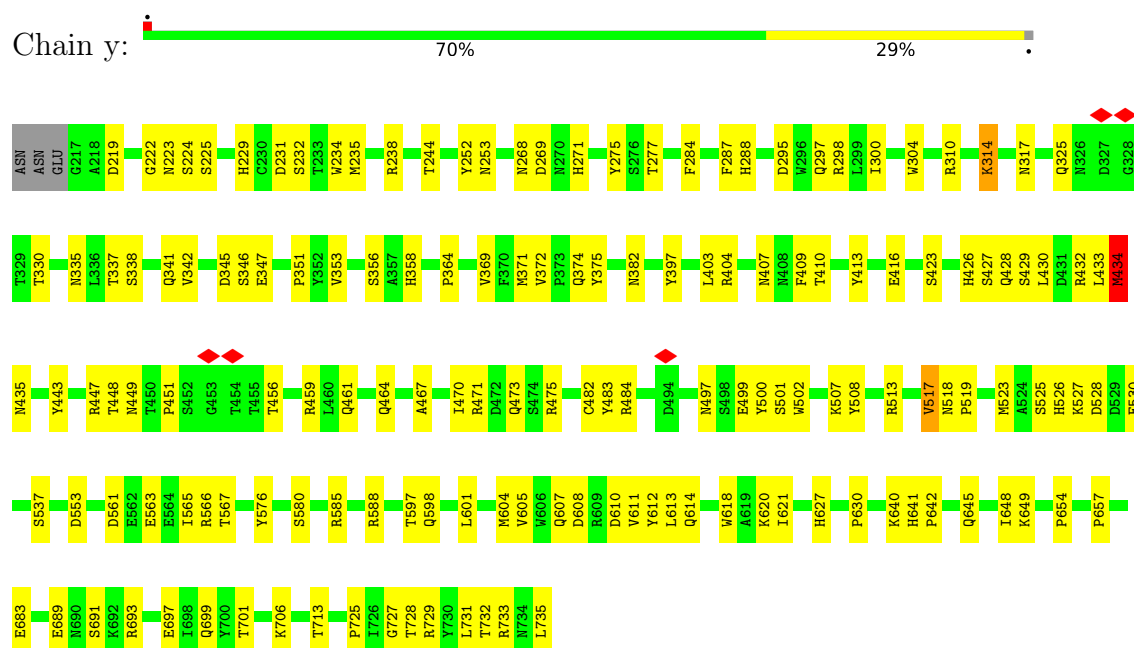


- Molecule 1: Capsid protein VP1

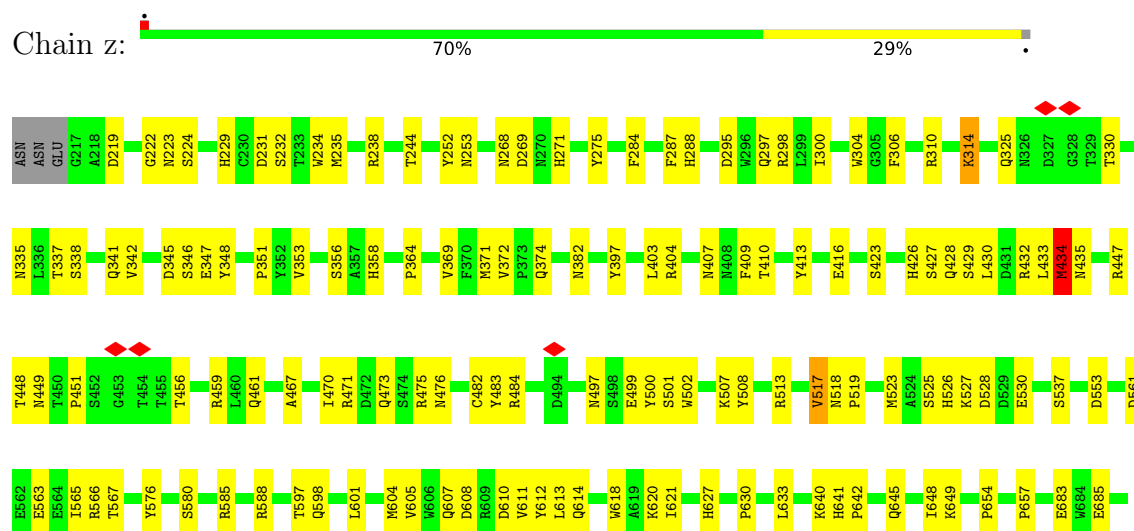




• Molecule 1: Capsid protein VP1



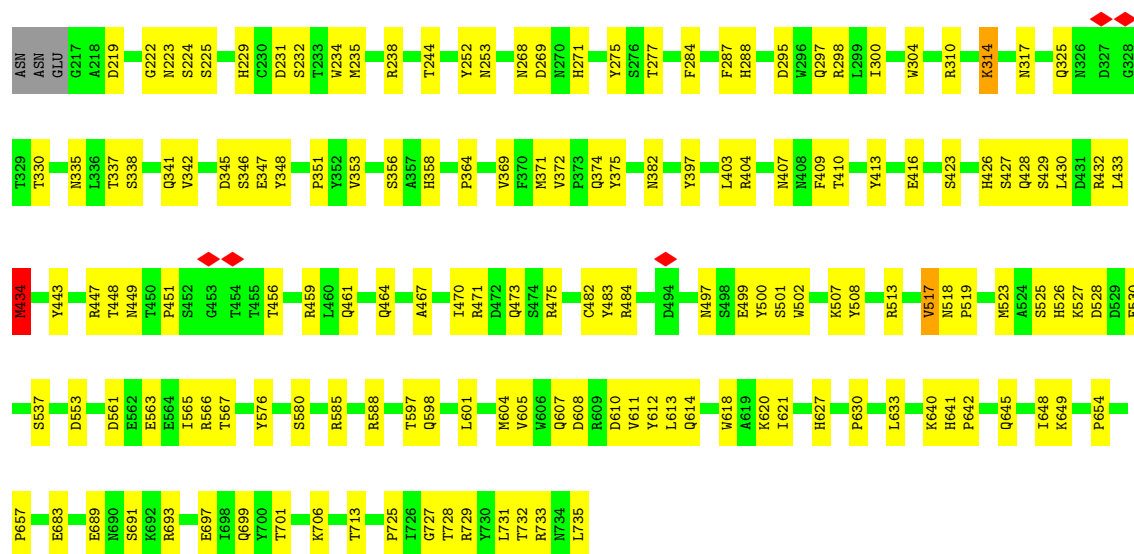
• Molecule 1: Capsid protein VP1





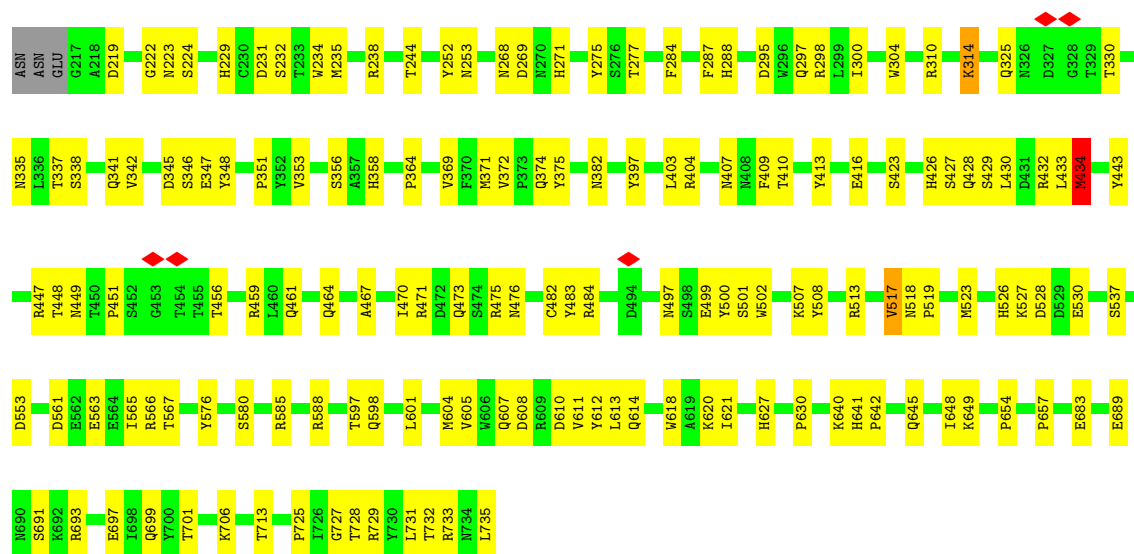
• Molecule 1: Capsid protein VP1

Chain 1: 69% 30%



• Molecule 1: Capsid protein VP1

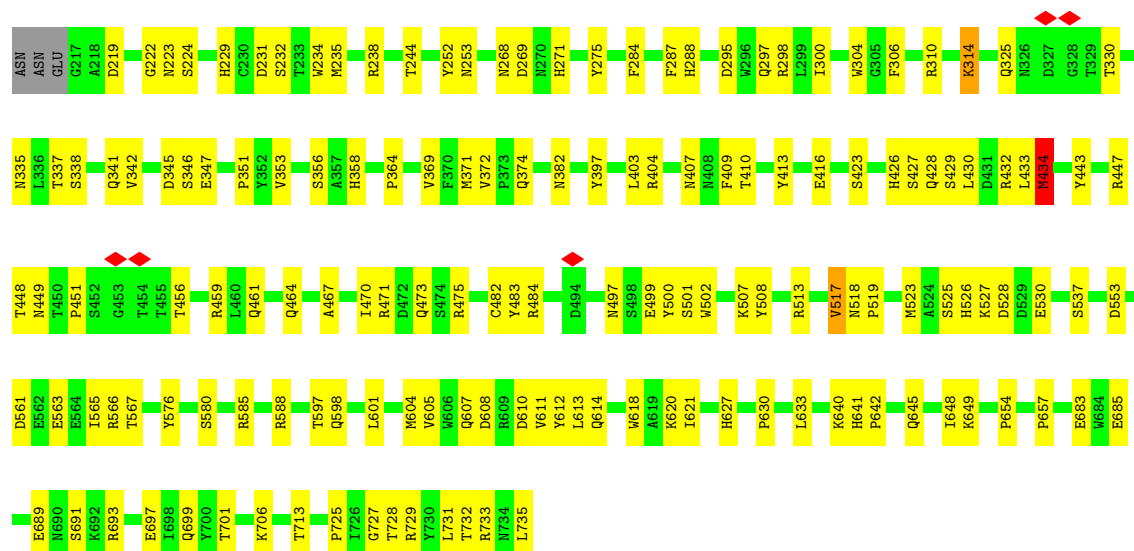
Chain 2: 70% 29%



• Molecule 1: Capsid protein VP1

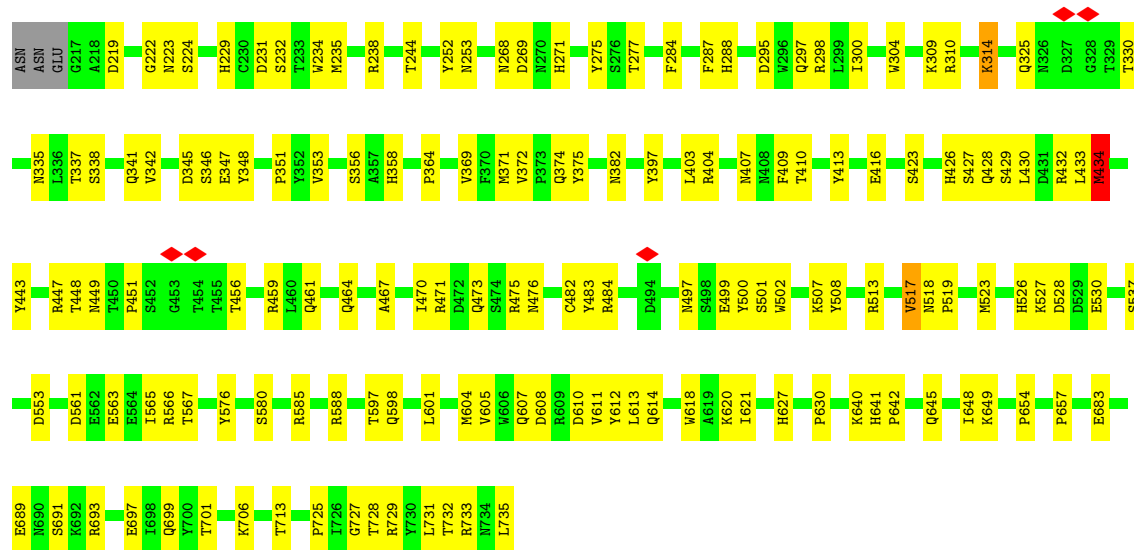
Chain 3: 70% 29%





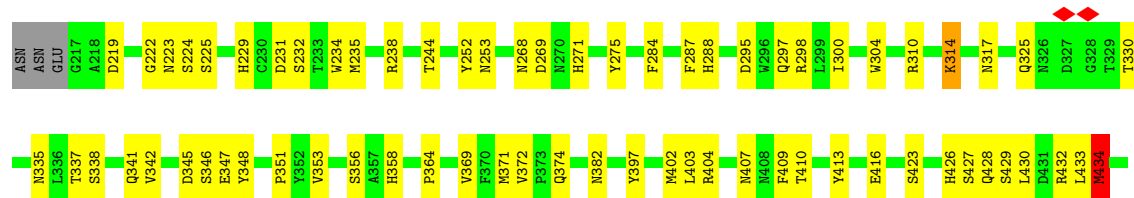
• Molecule 1: Capsid protein VP1

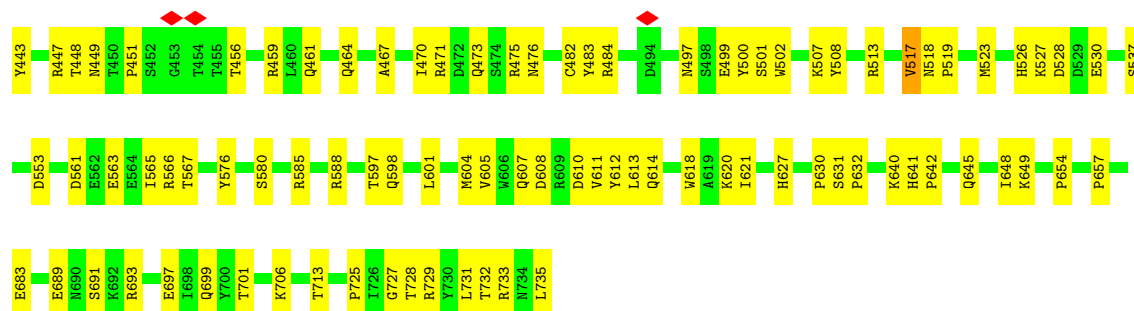
Chain 4: 70% 29%



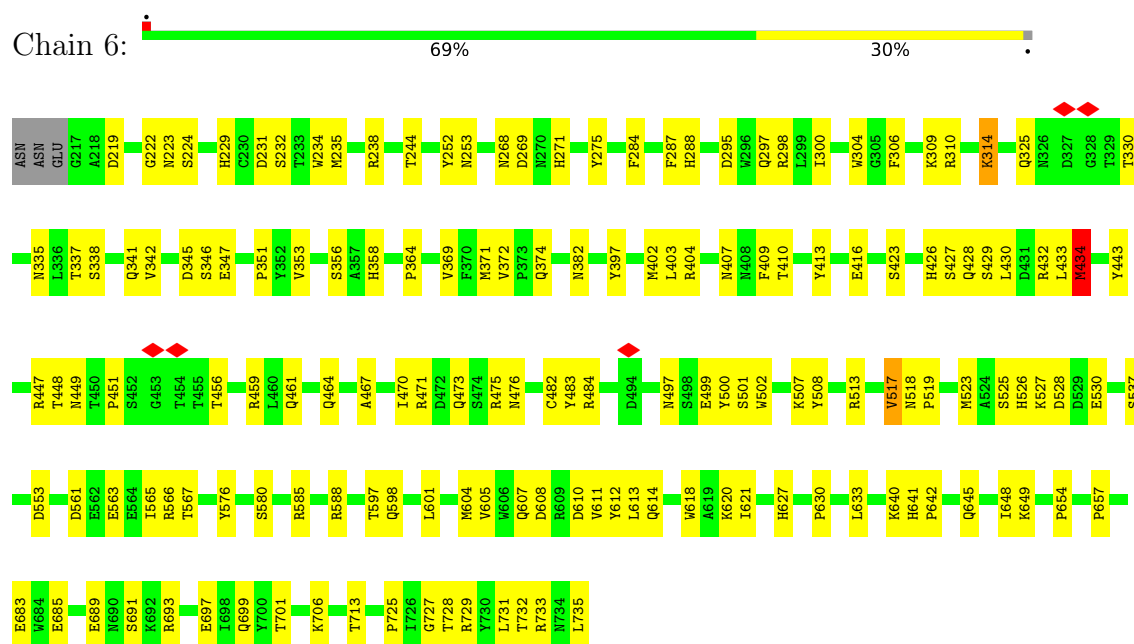
• Molecule 1: Capsid protein VP1

Chain 5: 69% 30%

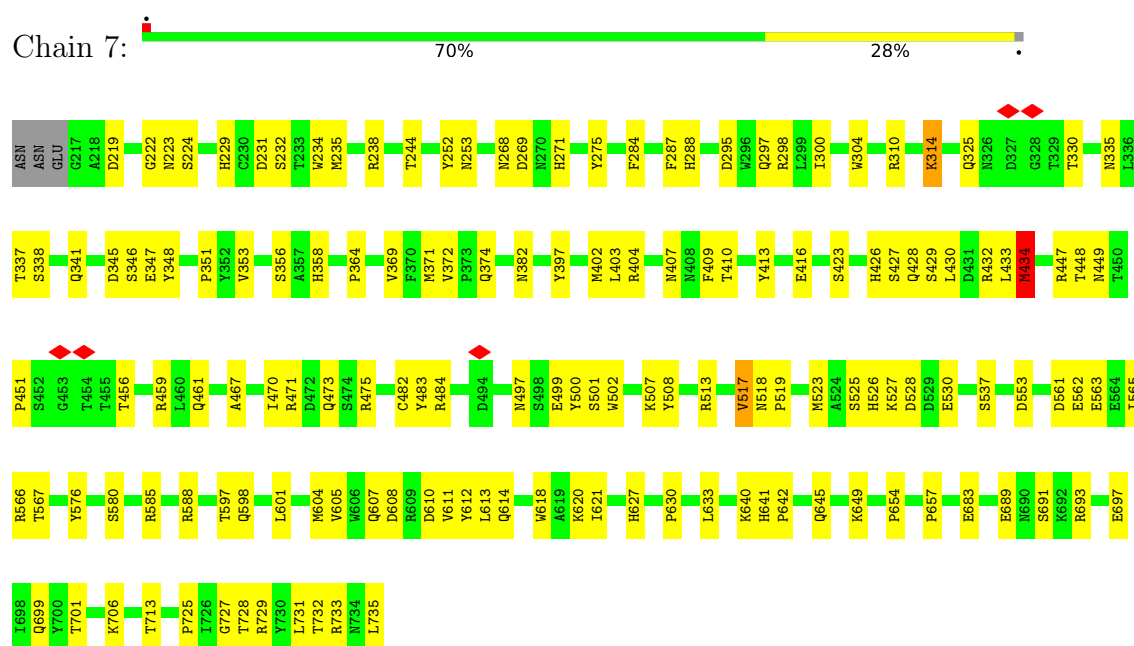




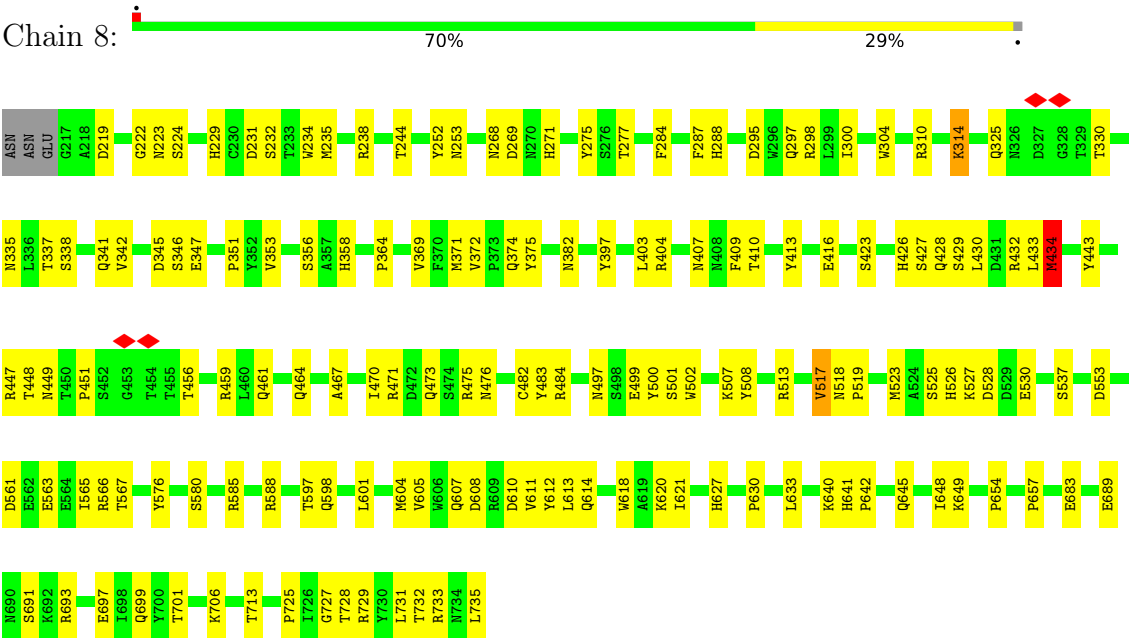
• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1



● Molecule 1: Capsid protein VP1



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	6778	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	75	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	14.983	Depositor
Minimum map value	-7.361	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	374.01, 374.01, 374.01	wwPDB
Map dimensions	411, 411, 411	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.91, 0.91, 0.91	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.45	0/4317	0.57	4/5880 (0.1%)
1	2	0.45	0/4317	0.57	4/5880 (0.1%)
1	3	0.45	0/4317	0.57	4/5880 (0.1%)
1	4	0.45	0/4317	0.57	4/5880 (0.1%)
1	5	0.45	0/4317	0.57	4/5880 (0.1%)
1	6	0.45	0/4317	0.57	4/5880 (0.1%)
1	7	0.45	0/4317	0.57	4/5880 (0.1%)
1	8	0.45	0/4317	0.57	4/5880 (0.1%)
1	A	0.45	0/4317	0.57	4/5880 (0.1%)
1	B	0.45	0/4317	0.57	4/5880 (0.1%)
1	C	0.45	0/4317	0.57	4/5880 (0.1%)
1	D	0.45	0/4317	0.57	4/5880 (0.1%)
1	E	0.45	0/4317	0.57	4/5880 (0.1%)
1	F	0.45	0/4317	0.57	4/5880 (0.1%)
1	G	0.45	0/4317	0.57	4/5880 (0.1%)
1	H	0.45	0/4317	0.57	4/5880 (0.1%)
1	I	0.45	0/4317	0.57	4/5880 (0.1%)
1	J	0.45	0/4317	0.57	4/5880 (0.1%)
1	K	0.45	0/4317	0.57	4/5880 (0.1%)
1	L	0.45	0/4317	0.57	4/5880 (0.1%)
1	M	0.45	0/4317	0.57	4/5880 (0.1%)
1	N	0.45	0/4317	0.57	4/5880 (0.1%)
1	O	0.45	0/4317	0.57	4/5880 (0.1%)
1	P	0.45	0/4317	0.57	4/5880 (0.1%)
1	Q	0.45	0/4317	0.57	4/5880 (0.1%)
1	R	0.45	0/4317	0.57	4/5880 (0.1%)
1	S	0.45	0/4317	0.57	4/5880 (0.1%)
1	T	0.45	0/4317	0.57	4/5880 (0.1%)
1	U	0.45	0/4317	0.57	4/5880 (0.1%)
1	V	0.45	0/4317	0.57	4/5880 (0.1%)
1	W	0.45	0/4317	0.57	4/5880 (0.1%)
1	X	0.45	0/4317	0.57	4/5880 (0.1%)
1	Y	0.45	0/4317	0.57	4/5880 (0.1%)
1	Z	0.45	0/4317	0.57	4/5880 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.45	0/4317	0.57	4/5880 (0.1%)
1	b	0.45	0/4317	0.57	4/5880 (0.1%)
1	c	0.45	0/4317	0.57	4/5880 (0.1%)
1	d	0.45	0/4317	0.57	4/5880 (0.1%)
1	e	0.45	0/4317	0.57	4/5880 (0.1%)
1	f	0.45	0/4317	0.57	4/5880 (0.1%)
1	g	0.45	0/4317	0.57	4/5880 (0.1%)
1	h	0.45	0/4317	0.57	4/5880 (0.1%)
1	i	0.45	0/4317	0.57	4/5880 (0.1%)
1	j	0.45	0/4317	0.57	4/5880 (0.1%)
1	k	0.45	0/4317	0.57	4/5880 (0.1%)
1	l	0.45	0/4317	0.57	4/5880 (0.1%)
1	m	0.45	0/4317	0.57	4/5880 (0.1%)
1	n	0.45	0/4317	0.57	4/5880 (0.1%)
1	o	0.45	0/4317	0.57	4/5880 (0.1%)
1	p	0.45	0/4317	0.57	4/5880 (0.1%)
1	q	0.45	0/4317	0.57	4/5880 (0.1%)
1	r	0.45	0/4317	0.57	4/5880 (0.1%)
1	s	0.45	0/4317	0.57	4/5880 (0.1%)
1	t	0.45	0/4317	0.57	4/5880 (0.1%)
1	u	0.45	0/4317	0.57	4/5880 (0.1%)
1	v	0.45	0/4317	0.57	4/5880 (0.1%)
1	w	0.45	0/4317	0.57	4/5880 (0.1%)
1	x	0.45	0/4317	0.57	4/5880 (0.1%)
1	y	0.45	0/4317	0.57	4/5880 (0.1%)
1	z	0.45	0/4317	0.57	4/5880 (0.1%)
All	All	0.45	0/259020	0.57	240/352800 (0.1%)

There are no bond length outliers.

All (240) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	314[A]	LYS	CA-CB-CG	6.92	127.94	114.10
1	1	314[B]	LYS	CA-CB-CG	6.92	127.94	114.10
1	Q	314[A]	LYS	CA-CB-CG	6.92	127.94	114.10
1	Q	314[B]	LYS	CA-CB-CG	6.92	127.94	114.10
1	z	314[A]	LYS	CA-CB-CG	6.92	127.94	114.10
1	z	314[B]	LYS	CA-CB-CG	6.92	127.94	114.10
1	H	314[A]	LYS	CA-CB-CG	6.92	127.93	114.10
1	H	314[B]	LYS	CA-CB-CG	6.92	127.93	114.10
1	O	314[A]	LYS	CA-CB-CG	6.92	127.94	114.10
1	O	314[B]	LYS	CA-CB-CG	6.92	127.94	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	p	314[A]	LYS	CA-CB-CG	6.92	127.93	114.10
1	p	314[B]	LYS	CA-CB-CG	6.92	127.93	114.10
1	n	314[A]	LYS	CA-CB-CG	6.91	127.93	114.10
1	n	314[B]	LYS	CA-CB-CG	6.91	127.93	114.10
1	E	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	E	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	L	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	L	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	U	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	U	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	V	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	V	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	a	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	a	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	c	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	c	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	i	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	i	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	o	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	o	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	s	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	s	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	D	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	D	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	F	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	F	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	h	314[A]	LYS	CA-CB-CG	6.91	127.92	114.10
1	h	314[B]	LYS	CA-CB-CG	6.91	127.92	114.10
1	v	314[A]	LYS	CA-CB-CG	6.91	127.91	114.10
1	v	314[B]	LYS	CA-CB-CG	6.91	127.91	114.10
1	P	314[A]	LYS	CA-CB-CG	6.90	127.91	114.10
1	P	314[B]	LYS	CA-CB-CG	6.90	127.91	114.10
1	b	314[A]	LYS	CA-CB-CG	6.90	127.90	114.10
1	b	314[B]	LYS	CA-CB-CG	6.90	127.90	114.10
1	e	314[A]	LYS	CA-CB-CG	6.90	127.91	114.10
1	e	314[B]	LYS	CA-CB-CG	6.90	127.91	114.10
1	t	314[A]	LYS	CA-CB-CG	6.90	127.91	114.10
1	t	314[B]	LYS	CA-CB-CG	6.90	127.91	114.10
1	A	314[A]	LYS	CA-CB-CG	6.90	127.90	114.10
1	A	314[B]	LYS	CA-CB-CG	6.90	127.90	114.10
1	m	314[A]	LYS	CA-CB-CG	6.90	127.90	114.10
1	m	314[B]	LYS	CA-CB-CG	6.90	127.90	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	314[A]	LYS	CA-CB-CG	6.90	127.90	114.10
1	3	314[B]	LYS	CA-CB-CG	6.90	127.90	114.10
1	7	314[A]	LYS	CA-CB-CG	6.90	127.90	114.10
1	7	314[B]	LYS	CA-CB-CG	6.90	127.90	114.10
1	T	314[A]	LYS	CA-CB-CG	6.90	127.89	114.10
1	T	314[B]	LYS	CA-CB-CG	6.90	127.89	114.10
1	W	314[A]	LYS	CA-CB-CG	6.90	127.89	114.10
1	W	314[B]	LYS	CA-CB-CG	6.90	127.89	114.10
1	G	314[A]	LYS	CA-CB-CG	6.90	127.89	114.10
1	G	314[B]	LYS	CA-CB-CG	6.90	127.89	114.10
1	X	314[A]	LYS	CA-CB-CG	6.90	127.89	114.10
1	X	314[B]	LYS	CA-CB-CG	6.90	127.89	114.10
1	Z	314[A]	LYS	CA-CB-CG	6.90	127.89	114.10
1	Z	314[B]	LYS	CA-CB-CG	6.90	127.89	114.10
1	g	314[A]	LYS	CA-CB-CG	6.90	127.89	114.10
1	g	314[B]	LYS	CA-CB-CG	6.90	127.89	114.10
1	j	314[A]	LYS	CA-CB-CG	6.90	127.89	114.10
1	j	314[B]	LYS	CA-CB-CG	6.90	127.89	114.10
1	4	314[A]	LYS	CA-CB-CG	6.90	127.89	114.10
1	4	314[B]	LYS	CA-CB-CG	6.90	127.89	114.10
1	N	314[A]	LYS	CA-CB-CG	6.89	127.89	114.10
1	N	314[B]	LYS	CA-CB-CG	6.89	127.89	114.10
1	d	314[A]	LYS	CA-CB-CG	6.89	127.89	114.10
1	d	314[B]	LYS	CA-CB-CG	6.89	127.89	114.10
1	l	314[A]	LYS	CA-CB-CG	6.89	127.89	114.10
1	l	314[B]	LYS	CA-CB-CG	6.89	127.89	114.10
1	w	314[A]	LYS	CA-CB-CG	6.89	127.89	114.10
1	w	314[B]	LYS	CA-CB-CG	6.89	127.89	114.10
1	6	314[A]	LYS	CA-CB-CG	6.89	127.89	114.10
1	6	314[B]	LYS	CA-CB-CG	6.89	127.89	114.10
1	C	314[A]	LYS	CA-CB-CG	6.89	127.89	114.10
1	C	314[B]	LYS	CA-CB-CG	6.89	127.89	114.10
1	I	314[A]	LYS	CA-CB-CG	6.89	127.89	114.10
1	I	314[B]	LYS	CA-CB-CG	6.89	127.89	114.10
1	K	314[A]	LYS	CA-CB-CG	6.89	127.88	114.10
1	K	314[B]	LYS	CA-CB-CG	6.89	127.88	114.10
1	q	314[A]	LYS	CA-CB-CG	6.89	127.89	114.10
1	q	314[B]	LYS	CA-CB-CG	6.89	127.89	114.10
1	J	314[A]	LYS	CA-CB-CG	6.89	127.88	114.10
1	J	314[B]	LYS	CA-CB-CG	6.89	127.88	114.10
1	R	314[A]	LYS	CA-CB-CG	6.89	127.88	114.10
1	R	314[B]	LYS	CA-CB-CG	6.89	127.88	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	u	314[A]	LYS	CA-CB-CG	6.89	127.88	114.10
1	u	314[B]	LYS	CA-CB-CG	6.89	127.88	114.10
1	M	314[A]	LYS	CA-CB-CG	6.89	127.88	114.10
1	M	314[B]	LYS	CA-CB-CG	6.89	127.88	114.10
1	f	314[A]	LYS	CA-CB-CG	6.89	127.87	114.10
1	f	314[B]	LYS	CA-CB-CG	6.89	127.87	114.10
1	r	314[A]	LYS	CA-CB-CG	6.89	127.87	114.10
1	r	314[B]	LYS	CA-CB-CG	6.89	127.87	114.10
1	x	314[A]	LYS	CA-CB-CG	6.89	127.88	114.10
1	x	314[B]	LYS	CA-CB-CG	6.89	127.88	114.10
1	8	314[A]	LYS	CA-CB-CG	6.89	127.87	114.10
1	8	314[B]	LYS	CA-CB-CG	6.89	127.87	114.10
1	k	314[A]	LYS	CA-CB-CG	6.88	127.87	114.10
1	k	314[B]	LYS	CA-CB-CG	6.88	127.87	114.10
1	S	314[A]	LYS	CA-CB-CG	6.88	127.87	114.10
1	S	314[B]	LYS	CA-CB-CG	6.88	127.87	114.10
1	y	314[A]	LYS	CA-CB-CG	6.88	127.87	114.10
1	y	314[B]	LYS	CA-CB-CG	6.88	127.87	114.10
1	5	314[A]	LYS	CA-CB-CG	6.88	127.87	114.10
1	5	314[B]	LYS	CA-CB-CG	6.88	127.87	114.10
1	Y	314[A]	LYS	CA-CB-CG	6.88	127.86	114.10
1	Y	314[B]	LYS	CA-CB-CG	6.88	127.86	114.10
1	2	314[A]	LYS	CA-CB-CG	6.88	127.85	114.10
1	2	314[B]	LYS	CA-CB-CG	6.88	127.85	114.10
1	B	314[A]	LYS	CA-CB-CG	6.88	127.85	114.10
1	B	314[B]	LYS	CA-CB-CG	6.88	127.85	114.10
1	F	434	MET	N-CA-C	5.40	117.89	109.52
1	n	434	MET	N-CA-C	5.40	117.89	109.52
1	J	434	MET	N-CA-C	5.40	117.89	109.52
1	l	434	MET	N-CA-C	5.40	117.89	109.52
1	v	434	MET	N-CA-C	5.40	117.89	109.52
1	O	434	MET	N-CA-C	5.39	117.88	109.52
1	8	434	MET	N-CA-C	5.39	117.88	109.52
1	N	434	MET	N-CA-C	5.38	117.86	109.52
1	W	434	MET	N-CA-C	5.38	117.86	109.52
1	M	434	MET	N-CA-C	5.38	117.86	109.52
1	o	434	MET	N-CA-C	5.38	117.86	109.52
1	R	434	MET	N-CA-C	5.38	117.86	109.52
1	V	434	MET	N-CA-C	5.38	117.85	109.52
1	d	434	MET	N-CA-C	5.38	117.85	109.52
1	p	434	MET	N-CA-C	5.38	117.86	109.52
1	u	434	MET	N-CA-C	5.38	117.85	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	3	434	MET	N-CA-C	5.38	117.86	109.52
1	C	434	MET	N-CA-C	5.38	117.85	109.52
1	L	434	MET	N-CA-C	5.38	117.85	109.52
1	u	517	VAL	CB-CA-C	-5.38	107.20	113.22
1	v	517	VAL	CB-CA-C	-5.38	107.20	113.22
1	L	517	VAL	CB-CA-C	-5.37	107.20	113.22
1	P	517	VAL	CB-CA-C	-5.37	107.20	113.22
1	S	434	MET	N-CA-C	5.37	117.85	109.52
1	c	434	MET	N-CA-C	5.37	117.85	109.52
1	e	517	VAL	CB-CA-C	-5.37	107.20	113.22
1	Q	517	VAL	CB-CA-C	-5.37	107.20	113.22
1	X	517	VAL	CB-CA-C	-5.37	107.20	113.22
1	g	517	VAL	CB-CA-C	-5.37	107.20	113.22
1	U	434	MET	N-CA-C	5.37	117.84	109.52
1	a	434	MET	N-CA-C	5.37	117.84	109.52
1	a	517	VAL	CB-CA-C	-5.37	107.21	113.22
1	f	434	MET	N-CA-C	5.37	117.84	109.52
1	h	434	MET	N-CA-C	5.37	117.84	109.52
1	A	434	MET	N-CA-C	5.37	117.84	109.52
1	B	517	VAL	CB-CA-C	-5.37	107.21	113.22
1	N	517	VAL	CB-CA-C	-5.37	107.21	113.22
1	P	434	MET	N-CA-C	5.37	117.84	109.52
1	e	434	MET	N-CA-C	5.37	117.84	109.52
1	m	434	MET	N-CA-C	5.37	117.84	109.52
1	o	517	VAL	CB-CA-C	-5.37	107.21	113.22
1	x	434	MET	N-CA-C	5.37	117.84	109.52
1	6	517	VAL	CB-CA-C	-5.37	107.21	113.22
1	7	434	MET	N-CA-C	5.37	117.84	109.52
1	B	434	MET	N-CA-C	5.37	117.84	109.52
1	H	434	MET	N-CA-C	5.37	117.84	109.52
1	I	434	MET	N-CA-C	5.37	117.84	109.52
1	i	434	MET	N-CA-C	5.37	117.84	109.52
1	j	434	MET	N-CA-C	5.37	117.84	109.52
1	2	434	MET	N-CA-C	5.37	117.84	109.52
1	4	434	MET	N-CA-C	5.37	117.84	109.52
1	D	434	MET	N-CA-C	5.36	117.83	109.52
1	E	517	VAL	CB-CA-C	-5.36	107.21	113.22
1	W	517	VAL	CB-CA-C	-5.36	107.21	113.22
1	b	434	MET	N-CA-C	5.36	117.83	109.52
1	y	434	MET	N-CA-C	5.36	117.83	109.52
1	6	434	MET	N-CA-C	5.36	117.83	109.52
1	Z	517	VAL	CB-CA-C	-5.36	107.22	113.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	517	VAL	CB-CA-C	-5.36	107.22	113.22
1	G	517	VAL	CB-CA-C	-5.36	107.22	113.22
1	K	434	MET	N-CA-C	5.36	117.83	109.52
1	Q	434	MET	N-CA-C	5.36	117.83	109.52
1	k	434	MET	N-CA-C	5.36	117.83	109.52
1	r	434	MET	N-CA-C	5.36	117.83	109.52
1	j	517	VAL	CB-CA-C	-5.36	107.22	113.22
1	z	434	MET	N-CA-C	5.36	117.83	109.52
1	c	517	VAL	CB-CA-C	-5.36	107.22	113.22
1	w	434	MET	N-CA-C	5.36	117.82	109.52
1	x	517	VAL	CB-CA-C	-5.36	107.22	113.22
1	3	517	VAL	CB-CA-C	-5.36	107.22	113.22
1	J	517	VAL	CB-CA-C	-5.35	107.22	113.22
1	R	517	VAL	CB-CA-C	-5.35	107.22	113.22
1	k	517	VAL	CB-CA-C	-5.35	107.22	113.22
1	p	517	VAL	CB-CA-C	-5.35	107.22	113.22
1	7	517	VAL	CB-CA-C	-5.35	107.22	113.22
1	E	434	MET	N-CA-C	5.35	117.81	109.52
1	g	434	MET	N-CA-C	5.35	117.81	109.52
1	q	434	MET	N-CA-C	5.35	117.81	109.52
1	s	434	MET	N-CA-C	5.35	117.81	109.52
1	b	517	VAL	CB-CA-C	-5.35	107.23	113.22
1	h	517	VAL	CB-CA-C	-5.35	107.23	113.22
1	C	517	VAL	CB-CA-C	-5.35	107.23	113.22
1	I	517	VAL	CB-CA-C	-5.35	107.23	113.22
1	w	517	VAL	CB-CA-C	-5.35	107.23	113.22
1	4	517	VAL	CB-CA-C	-5.35	107.23	113.22
1	O	517	VAL	CB-CA-C	-5.35	107.23	113.22
1	A	517	VAL	CB-CA-C	-5.34	107.23	113.22
1	S	517	VAL	CB-CA-C	-5.34	107.23	113.22
1	m	517	VAL	CB-CA-C	-5.34	107.23	113.22
1	F	517	VAL	CB-CA-C	-5.34	107.24	113.22
1	G	434	MET	N-CA-C	5.34	117.80	109.52
1	M	517	VAL	CB-CA-C	-5.34	107.23	113.22
1	T	434	MET	N-CA-C	5.34	117.80	109.52
1	X	434	MET	N-CA-C	5.34	117.80	109.52
1	Z	434	MET	N-CA-C	5.34	117.80	109.52
1	5	434	MET	N-CA-C	5.34	117.80	109.52
1	8	517	VAL	CB-CA-C	-5.34	107.24	113.22
1	T	517	VAL	CB-CA-C	-5.34	107.24	113.22
1	t	434	MET	N-CA-C	5.34	117.80	109.52
1	U	517	VAL	CB-CA-C	-5.34	107.24	113.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	517	VAL	CB-CA-C	-5.34	107.24	113.22
1	d	517	VAL	CB-CA-C	-5.34	107.24	113.22
1	z	517	VAL	CB-CA-C	-5.34	107.24	113.22
1	1	434	MET	N-CA-C	5.34	117.80	109.52
1	2	517	VAL	CB-CA-C	-5.34	107.24	113.22
1	K	517	VAL	CB-CA-C	-5.34	107.24	113.22
1	y	517	VAL	CB-CA-C	-5.33	107.25	113.22
1	s	517	VAL	CB-CA-C	-5.33	107.25	113.22
1	Y	434	MET	N-CA-C	5.33	117.78	109.52
1	t	517	VAL	CB-CA-C	-5.33	107.25	113.22
1	5	517	VAL	CB-CA-C	-5.33	107.25	113.22
1	H	517	VAL	CB-CA-C	-5.33	107.25	113.22
1	q	517	VAL	CB-CA-C	-5.33	107.25	113.22
1	Y	517	VAL	CB-CA-C	-5.32	107.26	113.22
1	l	517	VAL	CB-CA-C	-5.32	107.26	113.22
1	r	517	VAL	CB-CA-C	-5.32	107.26	113.22
1	i	517	VAL	CB-CA-C	-5.32	107.27	113.22
1	1	517	VAL	CB-CA-C	-5.32	107.27	113.22
1	f	517	VAL	CB-CA-C	-5.30	107.28	113.22
1	D	517	VAL	CB-CA-C	-5.29	107.30	113.22

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	4170	0	3924	137	0
1	2	4170	0	3924	135	0
1	3	4170	0	3924	134	0
1	4	4170	0	3924	136	0
1	5	4170	0	3924	138	0
1	6	4170	0	3924	137	0
1	7	4170	0	3924	133	0
1	8	4170	0	3924	136	0
1	A	4170	0	3924	136	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	4170	0	3924	138	0
1	C	4170	0	3924	142	0
1	D	4170	0	3924	135	0
1	E	4170	0	3924	133	0
1	F	4170	0	3924	135	0
1	G	4170	0	3924	134	0
1	H	4170	0	3924	131	0
1	I	4170	0	3924	136	0
1	J	4170	0	3924	139	0
1	K	4170	0	3924	133	0
1	L	4170	0	3924	134	0
1	M	4170	0	3924	137	0
1	N	4170	0	3924	135	0
1	O	4170	0	3924	133	0
1	P	4170	0	3924	132	0
1	Q	4170	0	3924	134	0
1	R	4170	0	3924	135	0
1	S	4170	0	3924	135	0
1	T	4170	0	3924	135	0
1	U	4170	0	3924	136	0
1	V	4170	0	3924	138	0
1	W	4170	0	3924	134	0
1	X	4170	0	3924	139	0
1	Y	4170	0	3924	133	0
1	Z	4170	0	3924	135	0
1	a	4170	0	3924	134	0
1	b	4170	0	3924	137	0
1	c	4170	0	3924	135	0
1	d	4170	0	3924	134	0
1	e	4170	0	3924	136	0
1	f	4170	0	3924	135	0
1	g	4170	0	3924	135	0
1	h	4170	0	3924	133	0
1	i	4170	0	3924	135	0
1	j	4170	0	3924	138	0
1	k	4170	0	3924	141	0
1	l	4170	0	3924	135	0
1	m	4170	0	3924	132	0
1	n	4170	0	3924	133	0
1	o	4170	0	3924	134	0
1	p	4170	0	3924	131	0
1	q	4170	0	3924	134	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	r	4170	0	3924	136	0
1	s	4170	0	3924	133	0
1	t	4170	0	3924	136	0
1	u	4170	0	3924	133	0
1	v	4170	0	3924	135	0
1	w	4170	0	3924	136	0
1	x	4170	0	3924	138	0
1	y	4170	0	3924	134	0
1	z	4170	0	3924	137	0
All	All	250200	0	235440	6781	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 14.

All (6781) 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)
1:6:448:THR:HG21	1:7:500:TYR:CZ	1.90	1.07
1:j:448:THR:HG21	1:k:500:TYR:CZ	1.91	1.06
1:B:448:THR:HG21	1:J:500:TYR:CZ	1.91	1.06
1:R:448:THR:HG21	1:S:500:TYR:CZ	1.91	1.06
1:V:448:THR:HG21	1:e:500:TYR:CZ	1.91	1.06
1:c:500:TYR:CZ	1:p:448:THR:HG21	1.90	1.06
1:r:448:THR:HG21	1:s:500:TYR:CZ	1.90	1.06
1:Z:500:TYR:CZ	1:3:448:THR:HG21	1.91	1.06
1:c:448:THR:HG21	1:o:500:TYR:CZ	1.91	1.06
1:z:448:THR:HG21	1:l:500:TYR:CZ	1.91	1.06
1:E:448:THR:HG21	1:Q:500:TYR:CZ	1.91	1.06
1:G:448:THR:HG21	1:I:500:TYR:CZ	1.91	1.06
1:N:448:THR:HG21	1:P:500:TYR:CZ	1.90	1.06
1:O:448:THR:HG21	1:m:500:TYR:CZ	1.90	1.06
1:R:500:TYR:CZ	1:U:448:THR:HG21	1.90	1.06
1:S:448:THR:HG21	1:U:500:TYR:CZ	1.91	1.06
1:o:448:THR:HG21	1:p:500:TYR:CZ	1.91	1.06
1:A:500:TYR:CZ	1:I:448:THR:HG21	1.91	1.05
1:T:448:THR:HG21	1:d:500:TYR:CZ	1.91	1.05
1:w:448:THR:HG21	1:x:500:TYR:CZ	1.90	1.05
1:w:500:TYR:CZ	1:y:448:THR:HG21	1.91	1.05
1:z:500:TYR:CZ	1:2:448:THR:HG21	1.91	1.05
1:3:500:TYR:CZ	1:4:448:THR:HG21	1.91	1.05
1:B:500:TYR:CZ	1:L:448:THR:HG21	1.91	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:500:TYR:CZ	1:Q:448:THR:HG21	1.91	1.05
1:X:500:TYR:CZ	1:e:448:THR:HG21	1.91	1.05
1:i:448:THR:HG21	1:j:500:TYR:CZ	1.91	1.05
1:u:448:THR:HG21	1:v:500:TYR:CZ	1.91	1.05
1:x:448:THR:HG21	1:y:500:TYR:CZ	1.91	1.05
1:A:448:THR:HG21	1:G:500:TYR:CZ	1.91	1.05
1:W:448:THR:HG21	1:Y:500:TYR:CZ	1.90	1.05
1:a:448:THR:HG21	1:8:500:TYR:CZ	1.91	1.05
1:q:500:TYR:CZ	1:s:448:THR:HG21	1.91	1.05
1:t:500:TYR:CZ	1:v:448:THR:HG21	1.90	1.05
1:5:500:TYR:CZ	1:7:448:THR:HG21	1.91	1.05
1:f:500:TYR:CZ	1:g:448:THR:HG21	1.91	1.05
1:g:500:TYR:CZ	1:h:448:THR:HG21	1.91	1.05
1:D:500:TYR:CZ	1:P:448:THR:HG21	1.91	1.05
1:H:500:TYR:CZ	1:Y:448:THR:HG21	1.91	1.05
1:m:448:THR:HG21	1:n:500:TYR:CZ	1.91	1.05
1:t:448:THR:HG21	1:u:500:TYR:CZ	1.91	1.05
1:l:448:THR:HG21	1:2:500:TYR:CZ	1.91	1.05
1:E:500:TYR:CZ	1:F:448:THR:HG21	1.91	1.04
1:O:500:TYR:CZ	1:n:448:THR:HG21	1.91	1.04
1:d:448:THR:HG21	1:l:500:TYR:CZ	1.90	1.04
1:q:448:THR:HG21	1:r:500:TYR:CZ	1.91	1.04
1:5:448:THR:HG21	1:6:500:TYR:CZ	1.91	1.04
1:D:448:THR:HG21	1:N:500:TYR:CZ	1.91	1.04
1:H:448:THR:HG21	1:W:500:TYR:CZ	1.91	1.04
1:J:448:THR:HG21	1:L:500:TYR:CZ	1.91	1.04
1:K:500:TYR:CZ	1:8:448:THR:HG21	1.91	1.04
1:T:500:TYR:CZ	1:l:448:THR:HG21	1.91	1.04
1:V:500:TYR:CZ	1:X:448:THR:HG21	1.91	1.04
1:Z:448:THR:HG21	1:4:500:TYR:CZ	1.91	1.04
1:f:448:THR:HG21	1:h:500:TYR:CZ	1.91	1.04
1:K:448:THR:HG21	1:a:500:TYR:CZ	1.91	1.04
1:i:500:TYR:CZ	1:k:448:THR:HG21	1.91	1.04
1:M:500:TYR:CZ	1:b:448:THR:HG21	1.93	1.03
1:C:500:TYR:CZ	1:M:448:THR:HG21	1.93	1.02
1:T:434:MET:HE2	1:T:473:GLN:OE1	1.59	1.02
1:X:434:MET:HE2	1:X:473:GLN:OE1	1.59	1.02
1:Z:434:MET:HE2	1:Z:473:GLN:OE1	1.59	1.02
1:b:434:MET:HE2	1:b:473:GLN:OE1	1.59	1.02
1:5:434:MET:HE2	1:5:473:GLN:OE1	1.59	1.02
1:C:448:THR:HG21	1:b:500:TYR:CZ	1.94	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:434:MET:HE2	1:n:473:GLN:OE1	1.59	1.02
1:l:434:MET:HE2	1:l:473:GLN:OE1	1.60	1.02
1:6:434:MET:HE2	1:6:473:GLN:OE1	1.59	1.02
1:D:434:MET:HE2	1:D:473:GLN:OE1	1.59	1.02
1:V:434:MET:HE2	1:V:473:GLN:OE1	1.59	1.02
1:Y:434:MET:HE2	1:Y:473:GLN:OE1	1.59	1.02
1:P:434:MET:HE2	1:P:473:GLN:OE1	1.59	1.02
1:U:434:MET:HE2	1:U:473:GLN:OE1	1.59	1.02
1:o:434:MET:HE2	1:o:473:GLN:OE1	1.59	1.02
1:u:434:MET:HE2	1:u:473:GLN:OE1	1.59	1.02
1:G:434:MET:HE2	1:G:473:GLN:OE1	1.59	1.02
1:W:434:MET:HE2	1:W:473:GLN:OE1	1.59	1.02
1:m:434:MET:HE2	1:m:473:GLN:OE1	1.60	1.02
1:t:434:MET:HE2	1:t:473:GLN:OE1	1.59	1.02
1:3:434:MET:HE2	1:3:473:GLN:OE1	1.59	1.02
1:H:434:MET:HE2	1:H:473:GLN:OE1	1.59	1.01
1:L:434:MET:HE2	1:L:473:GLN:OE1	1.59	1.01
1:f:434:MET:HE2	1:f:473:GLN:OE1	1.59	1.01
1:y:434:MET:HE2	1:y:473:GLN:OE1	1.59	1.01
1:z:434:MET:HE2	1:z:473:GLN:OE1	1.59	1.01
1:8:434:MET:HE2	1:8:473:GLN:OE1	1.60	1.01
1:K:434:MET:HE2	1:K:473:GLN:OE1	1.59	1.01
1:R:434:MET:HE2	1:R:473:GLN:OE1	1.59	1.01
1:h:434:MET:HE2	1:h:473:GLN:OE1	1.59	1.01
1:i:434:MET:HE2	1:i:473:GLN:OE1	1.59	1.01
1:4:434:MET:HE2	1:4:473:GLN:OE1	1.59	1.01
1:O:434:MET:HE2	1:O:473:GLN:OE1	1.59	1.01
1:p:434:MET:HE2	1:p:473:GLN:OE1	1.59	1.01
1:v:434:MET:HE2	1:v:473:GLN:OE1	1.60	1.01
1:2:434:MET:HE2	1:2:473:GLN:OE1	1.59	1.01
1:N:434:MET:HE2	1:N:473:GLN:OE1	1.59	1.01
1:A:434:MET:HE2	1:A:473:GLN:OE1	1.59	1.01
1:E:434:MET:HE2	1:E:473:GLN:OE1	1.59	1.01
1:I:434:MET:HE2	1:I:473:GLN:OE1	1.59	1.01
1:w:434:MET:HE2	1:w:473:GLN:OE1	1.60	1.01
1:x:434:MET:HE2	1:x:473:GLN:OE1	1.59	1.01
1:J:434:MET:HE2	1:J:473:GLN:OE1	1.59	1.00
1:a:434:MET:HE2	1:a:473:GLN:OE1	1.60	1.00
1:r:434:MET:HE2	1:r:473:GLN:OE1	1.60	1.00
1:Q:434:MET:HE2	1:Q:473:GLN:OE1	1.59	1.00
1:S:434:MET:HE2	1:S:473:GLN:OE1	1.60	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:434:MET:HE2	1:c:473:GLN:OE1	1.59	1.00
1:d:434:MET:HE2	1:d:473:GLN:OE1	1.60	1.00
1:g:434:MET:HE2	1:g:473:GLN:OE1	1.59	1.00
1:k:434:MET:HE2	1:k:473:GLN:OE1	1.59	1.00
1:M:434:MET:HE2	1:M:473:GLN:OE1	1.59	1.00
1:j:434:MET:HE2	1:j:473:GLN:OE1	1.60	1.00
1:s:434:MET:HE2	1:s:473:GLN:OE1	1.60	1.00
1:B:434:MET:HE2	1:B:473:GLN:OE1	1.59	1.00
1:F:434:MET:HE2	1:F:473:GLN:OE1	1.59	1.00
1:e:434:MET:HE2	1:e:473:GLN:OE1	1.60	1.00
1:q:434:MET:HE2	1:q:473:GLN:OE1	1.59	1.00
1:7:434:MET:HE2	1:7:473:GLN:OE1	1.59	0.99
1:C:434:MET:HE2	1:C:473:GLN:OE1	1.59	0.99
1:l:434:MET:HE2	1:l:473:GLN:OE1	1.59	0.99
1:l:483:TYR:H	1:l:523:MET:HE1	1.37	0.90
1:C:483:TYR:H	1:C:523:MET:HE1	1.37	0.90
1:L:483:TYR:H	1:L:523:MET:HE1	1.37	0.90
1:P:483:TYR:H	1:P:523:MET:HE1	1.37	0.90
1:i:483:TYR:H	1:i:523:MET:HE1	1.37	0.90
1:m:483:TYR:H	1:m:523:MET:HE1	1.37	0.90
1:D:483:TYR:H	1:D:523:MET:HE1	1.37	0.89
1:b:483:TYR:H	1:b:523:MET:HE1	1.37	0.89
1:T:483:TYR:H	1:T:523:MET:HE1	1.37	0.89
1:c:483:TYR:H	1:c:523:MET:HE1	1.37	0.89
1:n:483:TYR:H	1:n:523:MET:HE1	1.37	0.89
1:8:483:TYR:H	1:8:523:MET:HE1	1.37	0.89
1:y:483:TYR:H	1:y:523:MET:HE1	1.37	0.89
1:G:483:TYR:H	1:G:523:MET:HE1	1.37	0.89
1:S:483:TYR:H	1:S:523:MET:HE1	1.37	0.89
1:f:483:TYR:H	1:f:523:MET:HE1	1.37	0.89
1:z:483:TYR:H	1:z:523:MET:HE1	1.37	0.89
1:g:483:TYR:H	1:g:523:MET:HE1	1.37	0.89
1:2:483:TYR:H	1:2:523:MET:HE1	1.37	0.89
1:d:483:TYR:H	1:d:523:MET:HE1	1.37	0.89
1:Y:483:TYR:H	1:Y:523:MET:HE1	1.37	0.89
1:a:483:TYR:H	1:a:523:MET:HE1	1.37	0.89
1:3:483:TYR:H	1:3:523:MET:HE1	1.37	0.89
1:u:483:TYR:H	1:u:523:MET:HE1	1.37	0.89
1:4:483:TYR:H	1:4:523:MET:HE1	1.37	0.89
1:M:483:TYR:H	1:M:523:MET:HE1	1.37	0.88
1:t:483:TYR:H	1:t:523:MET:HE1	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:483:TYR:H	1:H:523:MET:HE1	1.37	0.88
1:O:483:TYR:H	1:O:523:MET:HE1	1.37	0.88
1:j:483:TYR:H	1:j:523:MET:HE1	1.37	0.88
1:B:483:TYR:H	1:B:523:MET:HE1	1.37	0.88
1:N:483:TYR:H	1:N:523:MET:HE1	1.37	0.88
1:W:483:TYR:H	1:W:523:MET:HE1	1.37	0.88
1:I:483:TYR:H	1:I:523:MET:HE1	1.37	0.88
1:J:483:TYR:H	1:J:523:MET:HE1	1.37	0.88
1:Q:483:TYR:H	1:Q:523:MET:HE1	1.37	0.88
1:v:483:TYR:H	1:v:523:MET:HE1	1.37	0.88
1:k:483:TYR:H	1:k:523:MET:HE1	1.37	0.88
1:q:483:TYR:H	1:q:523:MET:HE1	1.37	0.88
1:w:483:TYR:H	1:w:523:MET:HE1	1.37	0.88
1:R:483:TYR:H	1:R:523:MET:HE1	1.37	0.87
1:Z:483:TYR:H	1:Z:523:MET:HE1	1.37	0.87
1:s:483:TYR:H	1:s:523:MET:HE1	1.37	0.87
1:X:483:TYR:H	1:X:523:MET:HE1	1.37	0.87
1:x:483:TYR:H	1:x:523:MET:HE1	1.37	0.87
1:l:483:TYR:H	1:l:523:MET:HE1	1.37	0.87
1:p:483:TYR:H	1:p:523:MET:HE1	1.37	0.87
1:F:483:TYR:H	1:F:523:MET:HE1	1.37	0.87
1:U:483:TYR:H	1:U:523:MET:HE1	1.37	0.87
1:o:483:TYR:H	1:o:523:MET:HE1	1.37	0.87
1:5:483:TYR:H	1:5:523:MET:HE1	1.37	0.87
1:A:483:TYR:H	1:A:523:MET:HE1	1.37	0.87
1:E:483:TYR:H	1:E:523:MET:HE1	1.37	0.87
1:h:483:TYR:H	1:h:523:MET:HE1	1.37	0.87
1:7:483:TYR:H	1:7:523:MET:HE1	1.37	0.87
1:K:483:TYR:H	1:K:523:MET:HE1	1.37	0.86
1:e:483:TYR:H	1:e:523:MET:HE1	1.37	0.86
1:r:483:TYR:H	1:r:523:MET:HE1	1.37	0.86
1:6:483:TYR:H	1:6:523:MET:HE1	1.37	0.86
1:V:483:TYR:H	1:V:523:MET:HE1	1.37	0.86
1:A:585:ARG:HG2	1:A:588:ARG:HG2	1.67	0.77
1:J:585:ARG:HG2	1:J:588:ARG:HG2	1.67	0.77
1:h:585:ARG:HG2	1:h:588:ARG:HG2	1.67	0.77
1:k:585:ARG:HG2	1:k:588:ARG:HG2	1.67	0.77
1:x:585:ARG:HG2	1:x:588:ARG:HG2	1.67	0.77
1:U:585:ARG:HG2	1:U:588:ARG:HG2	1.67	0.77
1:o:585:ARG:HG2	1:o:588:ARG:HG2	1.67	0.77
1:K:585:ARG:HG2	1:K:588:ARG:HG2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:585:ARG:HG2	1:S:588:ARG:HG2	1.67	0.77
1:c:585:ARG:HG2	1:c:588:ARG:HG2	1.67	0.77
1:g:382:ASN:HD22	1:k:706:LYS:HD3	1.50	0.77
1:u:585:ARG:HG2	1:u:588:ARG:HG2	1.67	0.77
1:X:585:ARG:HG2	1:X:588:ARG:HG2	1.67	0.77
1:Y:585:ARG:HG2	1:Y:588:ARG:HG2	1.67	0.77
1:5:585:ARG:HG2	1:5:588:ARG:HG2	1.67	0.77
1:M:585:ARG:HG2	1:M:588:ARG:HG2	1.67	0.77
1:V:585:ARG:HG2	1:V:588:ARG:HG2	1.67	0.77
1:X:706:LYS:HD3	1:Y:382:ASN:HD22	1.50	0.77
1:d:585:ARG:HG2	1:d:588:ARG:HG2	1.67	0.77
1:y:585:ARG:HG2	1:y:588:ARG:HG2	1.67	0.76
1:6:585:ARG:HG2	1:6:588:ARG:HG2	1.67	0.76
1:F:585:ARG:HG2	1:F:588:ARG:HG2	1.67	0.76
1:G:585:ARG:HG2	1:G:588:ARG:HG2	1.67	0.76
1:H:585:ARG:HG2	1:H:588:ARG:HG2	1.67	0.76
1:T:585:ARG:HG2	1:T:588:ARG:HG2	1.67	0.76
1:l:382:ASN:HD22	1:n:706:LYS:HD3	1.51	0.76
1:l:585:ARG:HG2	1:l:588:ARG:HG2	1.67	0.76
1:t:585:ARG:HG2	1:t:588:ARG:HG2	1.67	0.76
1:C:585:ARG:HG2	1:C:588:ARG:HG2	1.67	0.76
1:D:585:ARG:HG2	1:D:588:ARG:HG2	1.67	0.76
1:N:585:ARG:HG2	1:N:588:ARG:HG2	1.67	0.76
1:P:585:ARG:HG2	1:P:588:ARG:HG2	1.67	0.76
1:W:585:ARG:HG2	1:W:588:ARG:HG2	1.67	0.76
1:b:585:ARG:HG2	1:b:588:ARG:HG2	1.67	0.76
1:f:585:ARG:HG2	1:f:588:ARG:HG2	1.67	0.76
1:n:585:ARG:HG2	1:n:588:ARG:HG2	1.67	0.76
1:q:585:ARG:HG2	1:q:588:ARG:HG2	1.67	0.76
1:v:585:ARG:HG2	1:v:588:ARG:HG2	1.67	0.76
1:O:585:ARG:HG2	1:O:588:ARG:HG2	1.67	0.76
1:R:585:ARG:HG2	1:R:588:ARG:HG2	1.67	0.76
1:m:585:ARG:HG2	1:m:588:ARG:HG2	1.67	0.76
1:3:585:ARG:HG2	1:3:588:ARG:HG2	1.67	0.76
1:L:585:ARG:HG2	1:L:588:ARG:HG2	1.67	0.76
1:Z:585:ARG:HG2	1:Z:588:ARG:HG2	1.67	0.76
1:p:585:ARG:HG2	1:p:588:ARG:HG2	1.67	0.76
1:q:706:LYS:HD3	1:y:382:ASN:HD22	1.51	0.76
1:u:382:ASN:HD22	1:5:706:LYS:HD3	1.51	0.76
1:1:585:ARG:HG2	1:1:588:ARG:HG2	1.67	0.76
1:8:585:ARG:HG2	1:8:588:ARG:HG2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:585:ARG:HG2	1:i:588:ARG:HG2	1.67	0.76
1:r:585:ARG:HG2	1:r:588:ARG:HG2	1.67	0.76
1:2:706:LYS:HD3	1:3:382:ASN:HD22	1.51	0.76
1:E:585:ARG:HG2	1:E:588:ARG:HG2	1.67	0.76
1:Q:706:LYS:HD3	1:S:382:ASN:HD22	1.51	0.76
1:z:585:ARG:HG2	1:z:588:ARG:HG2	1.67	0.76
1:g:585:ARG:HG2	1:g:588:ARG:HG2	1.67	0.76
1:I:585:ARG:HG2	1:I:588:ARG:HG2	1.67	0.76
1:B:585:ARG:HG2	1:B:588:ARG:HG2	1.67	0.76
1:w:585:ARG:HG2	1:w:588:ARG:HG2	1.67	0.76
1:J:706:LYS:HD3	1:a:382:ASN:HD22	1.52	0.75
1:K:627:HIS:HD2	1:K:630:PRO:HG3	1.52	0.75
1:Q:585:ARG:HG2	1:Q:588:ARG:HG2	1.67	0.75
1:S:706:LYS:HD3	1:d:382:ASN:HD22	1.51	0.75
1:a:585:ARG:HG2	1:a:588:ARG:HG2	1.67	0.75
1:e:627:HIS:HD2	1:e:630:PRO:HG3	1.52	0.75
1:e:706:LYS:HD3	1:h:382:ASN:HD22	1.51	0.75
1:j:585:ARG:HG2	1:j:588:ARG:HG2	1.67	0.75
1:z:382:ASN:HD22	1:4:706:LYS:HD3	1.51	0.75
1:2:585:ARG:HG2	1:2:588:ARG:HG2	1.67	0.75
1:H:706:LYS:HD3	1:I:382:ASN:HD22	1.51	0.75
1:T:706:LYS:HD3	1:U:382:ASN:HD22	1.51	0.75
1:b:627:HIS:HD2	1:b:630:PRO:HG3	1.52	0.75
1:h:706:LYS:HD3	1:i:382:ASN:HD22	1.51	0.75
1:s:585:ARG:HG2	1:s:588:ARG:HG2	1.67	0.75
1:t:382:ASN:HD22	1:y:706:LYS:HD3	1.50	0.75
1:7:585:ARG:HG2	1:7:588:ARG:HG2	1.67	0.75
1:7:627:HIS:HD2	1:7:630:PRO:HG3	1.52	0.75
1:K:382:ASN:HD22	1:7:706:LYS:HD3	1.51	0.75
1:M:382:ASN:HD22	1:c:706:LYS:HD3	1.51	0.75
1:b:706:LYS:HD3	1:o:382:ASN:HD22	1.51	0.75
1:h:627:HIS:HD2	1:h:630:PRO:HG3	1.52	0.75
1:4:585:ARG:HG2	1:4:588:ARG:HG2	1.67	0.75
1:F:706:LYS:HD3	1:G:382:ASN:HD22	1.52	0.75
1:T:627:HIS:HD2	1:T:630:PRO:HG3	1.52	0.75
1:g:627:HIS:HD2	1:g:630:PRO:HG3	1.51	0.75
1:j:627:HIS:HD2	1:j:630:PRO:HG3	1.52	0.75
1:u:706:LYS:HD3	1:2:382:ASN:HD22	1.50	0.75
1:E:314[A]:LYS:HD3	1:E:410:THR:HG22	1.69	0.75
1:R:627:HIS:HD2	1:R:630:PRO:HG3	1.51	0.75
1:e:585:ARG:HG2	1:e:588:ARG:HG2	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:627:HIS:HD2	1:m:630:PRO:HG3	1.52	0.75
1:r:314[A]:LYS:HD3	1:r:410:THR:HG22	1.69	0.75
1:v:706:LYS:HD3	1:w:382:ASN:HD22	1.52	0.75
1:B:627:HIS:HD2	1:B:630:PRO:HG3	1.52	0.75
1:G:706:LYS:HD3	1:W:382:ASN:HD22	1.51	0.75
1:K:706:LYS:HD3	1:L:382:ASN:HD22	1.52	0.75
1:O:382:ASN:HD22	1:d:706:LYS:HD3	1.51	0.75
1:c:382:ASN:HD22	1:s:706:LYS:HD3	1.52	0.75
1:j:382:ASN:HD22	1:l:706:LYS:HD3	1.50	0.75
1:M:269:ASP:O	1:b:432:ARG:NH2	2.19	0.75
1:P:627:HIS:HD2	1:P:630:PRO:HG3	1.52	0.75
1:V:314[A]:LYS:HD3	1:V:410:THR:HG22	1.69	0.75
1:Y:627:HIS:HD2	1:Y:630:PRO:HG3	1.52	0.75
1:c:627:HIS:HD2	1:c:630:PRO:HG3	1.52	0.75
1:f:627:HIS:HD2	1:f:630:PRO:HG3	1.52	0.75
1:r:627:HIS:HD2	1:r:630:PRO:HG3	1.52	0.75
1:s:314[A]:LYS:HD3	1:s:410:THR:HG22	1.69	0.75
1:6:314[A]:LYS:HD3	1:6:410:THR:HG22	1.69	0.75
1:E:627:HIS:HD2	1:E:630:PRO:HG3	1.52	0.75
1:Q:314[A]:LYS:HD3	1:Q:410:THR:HG22	1.69	0.75
1:R:382:ASN:HD22	1:V:706:LYS:HD3	1.51	0.75
1:S:627:HIS:HD2	1:S:630:PRO:HG3	1.52	0.75
1:X:627:HIS:HD2	1:X:630:PRO:HG3	1.52	0.75
1:a:627:HIS:HD2	1:a:630:PRO:HG3	1.52	0.75
1:u:627:HIS:HD2	1:u:630:PRO:HG3	1.52	0.75
1:A:382:ASN:HD22	1:B:706:LYS:HD3	1.51	0.75
1:m:706:LYS:HD3	1:s:382:ASN:HD22	1.51	0.75
1:p:627:HIS:HD2	1:p:630:PRO:HG3	1.52	0.75
1:s:627:HIS:HD2	1:s:630:PRO:HG3	1.52	0.75
1:3:627:HIS:HD2	1:3:630:PRO:HG3	1.52	0.75
1:8:627:HIS:HD2	1:8:630:PRO:HG3	1.52	0.75
1:Q:627:HIS:HD2	1:Q:630:PRO:HG3	1.52	0.74
1:X:382:ASN:HD22	1:f:706:LYS:HD3	1.51	0.74
1:5:627:HIS:HD2	1:5:630:PRO:HG3	1.52	0.74
1:D:382:ASN:HD22	1:E:706:LYS:HD3	1.52	0.74
1:J:627:HIS:HD2	1:J:630:PRO:HG3	1.52	0.74
1:U:706:LYS:HD3	1:e:382:ASN:HD22	1.51	0.74
1:k:627:HIS:HD2	1:k:630:PRO:HG3	1.52	0.74
1:n:382:ASN:HD22	1:r:706:LYS:HD3	1.52	0.74
1:o:706:LYS:HD3	1:7:382:ASN:HD22	1.51	0.74
1:A:314[A]:LYS:HD3	1:A:410:THR:HG22	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:314[A]:LYS:HD3	1:M:410:THR:HG22	1.69	0.74
1:P:314[A]:LYS:HD3	1:P:410:THR:HG22	1.69	0.74
1:Z:314[A]:LYS:HD3	1:Z:410:THR:HG22	1.69	0.74
1:g:314[A]:LYS:HD3	1:g:410:THR:HG22	1.69	0.74
1:j:706:LYS:HD3	1:x:382:ASN:HD22	1.51	0.74
1:w:314[A]:LYS:HD3	1:w:410:THR:HG22	1.69	0.74
1:z:627:HIS:HD2	1:z:630:PRO:HG3	1.52	0.74
1:D:627:HIS:HD2	1:D:630:PRO:HG3	1.52	0.74
1:I:314[A]:LYS:HD3	1:I:410:THR:HG22	1.69	0.74
1:P:706:LYS:HD3	1:Q:382:ASN:HD22	1.51	0.74
1:S:314[A]:LYS:HD3	1:S:410:THR:HG22	1.69	0.74
1:U:314[A]:LYS:HD3	1:U:410:THR:HG22	1.69	0.74
1:a:314[A]:LYS:HD3	1:a:410:THR:HG22	1.69	0.74
1:k:382:ASN:HD22	1:w:706:LYS:HD3	1.51	0.74
1:m:314[A]:LYS:HD3	1:m:410:THR:HG22	1.69	0.74
1:o:314[A]:LYS:HD3	1:o:410:THR:HG22	1.69	0.74
1:q:448:THR:HG21	1:r:500:TYR:CE2	2.23	0.74
1:x:314[A]:LYS:HD3	1:x:410:THR:HG22	1.69	0.74
1:3:500:TYR:CE2	1:4:448:THR:HG21	2.23	0.74
1:5:314[A]:LYS:HD3	1:5:410:THR:HG22	1.69	0.74
1:D:314[A]:LYS:HD3	1:D:410:THR:HG22	1.69	0.74
1:F:382:ASN:HD22	1:R:706:LYS:HD3	1.51	0.74
1:T:314[A]:LYS:HD3	1:T:410:THR:HG22	1.69	0.74
1:X:314[A]:LYS:HD3	1:X:410:THR:HG22	1.69	0.74
1:Y:706:LYS:HD3	1:4:382:ASN:HD22	1.52	0.74
1:c:314[A]:LYS:HD3	1:c:410:THR:HG22	1.69	0.74
1:n:314[A]:LYS:HD3	1:n:410:THR:HG22	1.69	0.74
1:t:500:TYR:CE2	1:v:448:THR:HG21	2.23	0.74
1:w:448:THR:HG21	1:x:500:TYR:CE2	2.22	0.74
1:1:314[A]:LYS:HD3	1:1:410:THR:HG22	1.69	0.74
1:C:269:ASP:O	1:M:432:ARG:NH2	2.20	0.74
1:R:314[A]:LYS:HD3	1:R:410:THR:HG22	1.69	0.74
1:W:627:HIS:HD2	1:W:630:PRO:HG3	1.52	0.74
1:b:314[A]:LYS:HD3	1:b:410:THR:HG22	1.69	0.74
1:d:314[A]:LYS:HD3	1:d:410:THR:HG22	1.69	0.74
1:n:627:HIS:HD2	1:n:630:PRO:HG3	1.52	0.74
1:o:627:HIS:HD2	1:o:630:PRO:HG3	1.52	0.74
1:p:314[A]:LYS:HD3	1:p:410:THR:HG22	1.69	0.74
1:x:627:HIS:HD2	1:x:630:PRO:HG3	1.52	0.74
1:z:314[A]:LYS:HD3	1:z:410:THR:HG22	1.69	0.74
1:3:314[A]:LYS:HD3	1:3:410:THR:HG22	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:706:LYS:HD3	1:E:382:ASN:HD22	1.52	0.74
1:C:382:ASN:HD22	1:D:706:LYS:HD3	1.53	0.74
1:E:500:TYR:CE2	1:F:448:THR:HG21	2.23	0.74
1:F:500:TYR:CE2	1:Q:448:THR:HG21	2.23	0.74
1:F:627:HIS:HD2	1:F:630:PRO:HG3	1.52	0.74
1:M:597:THR:HG21	1:b:598:GLN:HE22	1.53	0.74
1:M:627:HIS:HD2	1:M:630:PRO:HG3	1.52	0.74
1:N:706:LYS:HD3	1:m:382:ASN:HD22	1.51	0.74
1:T:382:ASN:HD22	1:i:706:LYS:HD3	1.51	0.74
1:V:448:THR:HG21	1:e:500:TYR:CE2	2.22	0.74
1:a:448:THR:HG21	1:8:500:TYR:CE2	2.23	0.74
1:d:627:HIS:HD2	1:d:630:PRO:HG3	1.52	0.74
1:f:314[A]:LYS:HD3	1:f:410:THR:HG22	1.69	0.74
1:q:627:HIS:HD2	1:q:630:PRO:HG3	1.52	0.74
1:r:448:THR:HG21	1:s:500:TYR:CE2	2.22	0.74
1:2:627:HIS:HD2	1:2:630:PRO:HG3	1.52	0.74
1:4:627:HIS:HD2	1:4:630:PRO:HG3	1.52	0.74
1:6:448:THR:HG21	1:7:500:TYR:CE2	2.22	0.74
1:C:314[A]:LYS:HD3	1:C:410:THR:HG22	1.69	0.74
1:M:519:PRO:HG2	1:b:475:ARG:O	1.87	0.74
1:O:706:LYS:HD3	1:P:382:ASN:HD22	1.52	0.74
1:U:627:HIS:HD2	1:U:630:PRO:HG3	1.52	0.74
1:X:500:TYR:CE2	1:e:448:THR:HG21	2.23	0.74
1:l:314[A]:LYS:HD3	1:l:410:THR:HG22	1.69	0.74
1:p:706:LYS:HD3	1:q:382:ASN:HD22	1.52	0.74
1:w:627:HIS:HD2	1:w:630:PRO:HG3	1.52	0.74
1:D:500:TYR:CE2	1:P:448:THR:HG21	2.23	0.74
1:E:448:THR:HG21	1:Q:500:TYR:CE2	2.23	0.74
1:H:448:THR:HG21	1:W:500:TYR:CE2	2.23	0.74
1:I:627:HIS:HD2	1:I:630:PRO:HG3	1.52	0.74
1:T:448:THR:HG21	1:d:500:TYR:CE2	2.23	0.74
1:i:448:THR:HG21	1:j:500:TYR:CE2	2.23	0.74
1:m:448:THR:HG21	1:n:500:TYR:CE2	2.23	0.74
1:t:627:HIS:HD2	1:t:630:PRO:HG3	1.52	0.74
1:x:448:THR:HG21	1:y:500:TYR:CE2	2.23	0.74
1:7:314[A]:LYS:HD3	1:7:410:THR:HG22	1.69	0.74
1:8:314[A]:LYS:HD3	1:8:410:THR:HG22	1.69	0.74
1:A:627:HIS:HD2	1:A:630:PRO:HG3	1.52	0.74
1:O:314[A]:LYS:HD3	1:O:410:THR:HG22	1.69	0.74
1:O:627:HIS:HD2	1:O:630:PRO:HG3	1.52	0.74
1:c:519:PRO:HG2	1:p:475:ARG:O	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:382:ASN:HD22	1:z:706:LYS:HD3	1.51	0.74
1:f:500:TYR:CE2	1:g:448:THR:HG21	2.23	0.74
1:l:627:HIS:HD2	1:l:630:PRO:HG3	1.52	0.74
1:q:500:TYR:CE2	1:s:448:THR:HG21	2.23	0.74
1:N:314[A]:LYS:HD3	1:N:410:THR:HG22	1.69	0.73
1:W:448:THR:HG21	1:Y:500:TYR:CE2	2.23	0.73
1:e:314[A]:LYS:HD3	1:e:410:THR:HG22	1.69	0.73
1:p:382:ASN:HD22	1:6:706:LYS:HD3	1.53	0.73
1:t:706:LYS:HD3	1:6:382:ASN:HD22	1.52	0.73
1:5:382:ASN:HD22	1:8:706:LYS:HD3	1.52	0.73
1:5:448:THR:HG21	1:6:500:TYR:CE2	2.23	0.73
1:A:448:THR:HG21	1:G:500:TYR:CE2	2.23	0.73
1:A:500:TYR:CE2	1:I:448:THR:HG21	2.23	0.73
1:B:500:TYR:CE2	1:L:448:THR:HG21	2.23	0.73
1:K:314[A]:LYS:HD3	1:K:410:THR:HG22	1.69	0.73
1:L:627:HIS:HD2	1:L:630:PRO:HG3	1.52	0.73
1:N:448:THR:HG21	1:P:500:TYR:CE2	2.23	0.73
1:N:627:HIS:HD2	1:N:630:PRO:HG3	1.52	0.73
1:T:500:TYR:CE2	1:l:448:THR:HG21	2.23	0.73
1:V:382:ASN:HD22	1:W:706:LYS:HD3	1.51	0.73
1:j:314[A]:LYS:HD3	1:j:410:THR:HG22	1.69	0.73
1:r:382:ASN:HD22	1:x:706:LYS:HD3	1.52	0.73
1:w:475:ARG:O	1:x:519:PRO:HG2	1.88	0.73
1:C:627:HIS:HD2	1:C:630:PRO:HG3	1.52	0.73
1:H:382:ASN:HD22	1:Z:706:LYS:HD3	1.50	0.73
1:h:314[A]:LYS:HD3	1:h:410:THR:HG22	1.69	0.73
1:y:627:HIS:HD2	1:y:630:PRO:HG3	1.52	0.73
1:z:500:TYR:CE2	1:2:448:THR:HG21	2.23	0.73
1:O:448:THR:HG21	1:m:500:TYR:CE2	2.23	0.73
1:O:519:PRO:HG2	1:n:475:ARG:O	1.88	0.73
1:Z:382:ASN:HD22	1:a:706:LYS:HD3	1.51	0.73
1:f:475:ARG:O	1:h:519:PRO:HG2	1.89	0.73
1:1:448:THR:HG21	1:2:500:TYR:CE2	2.23	0.73
1:5:500:TYR:CE2	1:7:448:THR:HG21	2.24	0.73
1:B:314[A]:LYS:HD3	1:B:410:THR:HG22	1.69	0.73
1:G:314[A]:LYS:HD3	1:G:410:THR:HG22	1.69	0.73
1:G:475:ARG:O	1:I:519:PRO:HG2	1.89	0.73
1:G:627:HIS:HD2	1:G:630:PRO:HG3	1.52	0.73
1:H:314[A]:LYS:HD3	1:H:410:THR:HG22	1.69	0.73
1:J:475:ARG:O	1:L:519:PRO:HG2	1.89	0.73
1:K:519:PRO:HG2	1:8:475:ARG:O	1.89	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:500:TYR:CE2	1:X:448:THR:HG21	2.23	0.73
1:Z:448:THR:HG21	1:4:500:TYR:CE2	2.23	0.73
1:d:448:THR:HG21	1:l:500:TYR:CE2	2.23	0.73
1:i:627:HIS:HD2	1:i:630:PRO:HG3	1.52	0.73
1:1:627:HIS:HD2	1:1:630:PRO:HG3	1.52	0.73
1:3:706:LYS:HD3	1:8:382:ASN:HD22	1.52	0.73
1:6:627:HIS:HD2	1:6:630:PRO:HG3	1.52	0.73
1:K:500:TYR:CE2	1:8:448:THR:HG21	2.22	0.73
1:Z:627:HIS:HD2	1:Z:630:PRO:HG3	1.52	0.73
1:k:314[A]:LYS:HD3	1:k:410:THR:HG22	1.69	0.73
1:t:448:THR:HG21	1:u:500:TYR:CE2	2.24	0.73
1:u:475:ARG:O	1:v:519:PRO:HG2	1.89	0.73
1:y:314[A]:LYS:HD3	1:y:410:THR:HG22	1.69	0.73
1:J:314[A]:LYS:HD3	1:J:410:THR:HG22	1.69	0.73
1:O:500:TYR:CE2	1:n:448:THR:HG21	2.23	0.73
1:R:448:THR:HG21	1:S:500:TYR:CE2	2.23	0.73
1:R:519:PRO:HG2	1:U:475:ARG:O	1.89	0.73
1:V:475:ARG:O	1:e:519:PRO:HG2	1.89	0.73
1:V:627:HIS:HD2	1:V:630:PRO:HG3	1.52	0.73
1:Y:314[A]:LYS:HD3	1:Y:410:THR:HG22	1.69	0.73
1:t:269:ASP:O	1:v:432:ARG:NH2	2.22	0.73
1:v:314[A]:LYS:HD3	1:v:410:THR:HG22	1.69	0.73
1:z:448:THR:HG21	1:1:500:TYR:CE2	2.22	0.73
1:I:706:LYS:HD3	1:J:382:ASN:HD22	1.52	0.73
1:L:706:LYS:HD3	1:b:382:ASN:HD22	1.52	0.73
1:Z:475:ARG:O	1:4:519:PRO:HG2	1.89	0.73
1:c:448:THR:HG21	1:o:500:TYR:CE2	2.23	0.73
1:c:500:TYR:CE2	1:p:448:THR:HG21	2.22	0.73
1:g:706:LYS:HD3	1:1:382:ASN:HD22	1.51	0.73
1:i:519:PRO:HG2	1:k:475:ARG:O	1.89	0.73
1:r:432:ARG:NH2	1:s:269:ASP:O	2.22	0.73
1:R:475:ARG:O	1:S:519:PRO:HG2	1.89	0.73
1:S:448:THR:HG21	1:U:500:TYR:CE2	2.23	0.73
1:c:269:ASP:O	1:p:432:ARG:NH2	2.22	0.73
1:f:448:THR:HG21	1:h:500:TYR:CE2	2.23	0.73
1:j:448:THR:HG21	1:k:500:TYR:CE2	2.23	0.73
1:q:475:ARG:O	1:r:519:PRO:HG2	1.89	0.73
1:r:475:ARG:O	1:s:519:PRO:HG2	1.89	0.73
1:u:314[A]:LYS:HD3	1:u:410:THR:HG22	1.69	0.73
1:v:382:ASN:HD22	1:1:706:LYS:HD3	1.51	0.73
1:4:314[A]:LYS:HD3	1:4:410:THR:HG22	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:500:TYR:CE2	1:3:448:THR:HG21	2.23	0.73
1:i:314[A]:LYS:HD3	1:i:410:THR:HG22	1.69	0.73
1:o:475:ARG:O	1:p:519:PRO:HG2	1.89	0.73
1:2:314[A]:LYS:HD3	1:2:410:THR:HG22	1.69	0.73
1:B:448:THR:HG21	1:J:500:TYR:CE2	2.23	0.72
1:D:448:THR:HG21	1:N:500:TYR:CE2	2.23	0.72
1:J:448:THR:HG21	1:L:500:TYR:CE2	2.23	0.72
1:R:500:TYR:CE2	1:U:448:THR:HG21	2.23	0.72
1:o:448:THR:HG21	1:p:500:TYR:CE2	2.23	0.72
1:v:627:HIS:HD2	1:v:630:PRO:HG3	1.52	0.72
1:1:475:ARG:O	1:2:519:PRO:HG2	1.89	0.72
1:3:519:PRO:HG2	1:4:475:ARG:O	1.88	0.72
1:L:314[A]:LYS:HD3	1:L:410:THR:HG22	1.69	0.72
1:T:475:ARG:O	1:d:519:PRO:HG2	1.88	0.72
1:T:598:GLN:HE22	1:d:597:THR:HG21	1.55	0.72
1:g:500:TYR:CE2	1:h:448:THR:HG21	2.23	0.72
1:q:314[A]:LYS:HD3	1:q:410:THR:HG22	1.69	0.72
1:t:314[A]:LYS:HD3	1:t:410:THR:HG22	1.69	0.72
1:D:475:ARG:O	1:N:519:PRO:HG2	1.89	0.72
1:W:314[A]:LYS:HD3	1:W:410:THR:HG22	1.69	0.72
1:i:500:TYR:CE2	1:k:448:THR:HG21	2.23	0.72
1:F:314[A]:LYS:HD3	1:F:410:THR:HG22	1.69	0.72
1:H:627:HIS:HD2	1:H:630:PRO:HG3	1.52	0.72
1:W:432:ARG:NH2	1:Y:269:ASP:O	2.23	0.72
1:t:519:PRO:HG2	1:v:475:ARG:O	1.88	0.72
1:w:598:GLN:HE22	1:x:597:THR:HG21	1.54	0.72
1:3:597:THR:HG21	1:4:598:GLN:HE22	1.55	0.72
1:6:475:ARG:O	1:7:519:PRO:HG2	1.89	0.72
1:A:519:PRO:HG2	1:I:475:ARG:O	1.89	0.72
1:D:519:PRO:HG2	1:P:475:ARG:O	1.89	0.72
1:E:519:PRO:HG2	1:F:475:ARG:O	1.89	0.72
1:H:500:TYR:CE2	1:Y:448:THR:HG21	2.23	0.72
1:W:475:ARG:O	1:Y:519:PRO:HG2	1.89	0.72
1:a:475:ARG:O	1:8:519:PRO:HG2	1.89	0.72
1:3:269:ASP:O	1:4:432:ARG:NH2	2.23	0.72
1:E:269:ASP:O	1:F:432:ARG:NH2	2.23	0.72
1:E:432:ARG:NH2	1:Q:269:ASP:O	2.23	0.72
1:K:448:THR:HG21	1:a:500:TYR:CE2	2.23	0.72
1:N:432:ARG:NH2	1:P:269:ASP:O	2.23	0.72
1:u:448:THR:HG21	1:v:500:TYR:CE2	2.23	0.72
1:A:475:ARG:O	1:G:519:PRO:HG2	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:519:PRO:HG2	1:M:475:ARG:O	1.89	0.72
1:E:475:ARG:O	1:Q:519:PRO:HG2	1.90	0.72
1:H:269:ASP:O	1:Y:432:ARG:NH2	2.23	0.72
1:H:519:PRO:HG2	1:Y:475:ARG:O	1.90	0.72
1:N:475:ARG:O	1:P:519:PRO:HG2	1.89	0.72
1:O:432:ARG:NH2	1:m:269:ASP:O	2.23	0.72
1:X:519:PRO:HG2	1:e:475:ARG:O	1.90	0.72
1:g:519:PRO:HG2	1:h:475:ARG:O	1.89	0.72
1:i:475:ARG:O	1:j:519:PRO:HG2	1.88	0.72
1:q:432:ARG:NH2	1:r:269:ASP:O	2.23	0.72
1:w:519:PRO:HG2	1:y:475:ARG:O	1.90	0.72
1:5:598:GLN:HE22	1:6:597:THR:HG21	1.55	0.72
1:z:598:GLN:HE22	1:1:597:THR:HG21	1.55	0.72
1:5:432:ARG:NH2	1:6:269:ASP:O	2.22	0.72
1:C:597:THR:HG21	1:M:598:GLN:HE22	1.55	0.72
1:F:519:PRO:HG2	1:Q:475:ARG:O	1.89	0.72
1:K:597:THR:HG21	1:8:598:GLN:HE22	1.55	0.72
1:T:519:PRO:HG2	1:l:475:ARG:O	1.90	0.72
1:x:475:ARG:O	1:y:519:PRO:HG2	1.90	0.72
1:A:597:THR:HG21	1:I:598:GLN:HE22	1.55	0.71
1:G:448:THR:HG21	1:I:500:TYR:CE2	2.23	0.71
1:O:475:ARG:O	1:m:519:PRO:HG2	1.90	0.71
1:O:597:THR:HG21	1:n:598:GLN:HE22	1.55	0.71
1:R:432:ARG:NH2	1:S:269:ASP:O	2.23	0.71
1:S:475:ARG:O	1:U:519:PRO:HG2	1.90	0.71
1:m:475:ARG:O	1:n:519:PRO:HG2	1.90	0.71
1:5:475:ARG:O	1:6:519:PRO:HG2	1.88	0.71
1:F:269:ASP:O	1:Q:432:ARG:NH2	2.23	0.71
1:d:598:GLN:HE22	1:l:597:THR:HG21	1.56	0.71
1:g:597:THR:HG21	1:h:598:GLN:HE22	1.55	0.71
1:o:432:ARG:NH2	1:p:269:ASP:O	2.23	0.71
1:u:432:ARG:NH2	1:v:269:ASP:O	2.23	0.71
1:z:432:ARG:NH2	1:1:269:ASP:O	2.23	0.71
1:z:475:ARG:O	1:1:519:PRO:HG2	1.88	0.71
1:B:432:ARG:NH2	1:J:269:ASP:O	2.24	0.71
1:D:269:ASP:O	1:P:432:ARG:NH2	2.23	0.71
1:t:597:THR:HG21	1:v:598:GLN:HE22	1.54	0.71
1:T:432:ARG:NH2	1:d:269:ASP:O	2.23	0.71
1:d:432:ARG:NH2	1:l:269:ASP:O	2.23	0.71
1:w:500:TYR:CE2	1:y:448:THR:HG21	2.24	0.71
1:z:519:PRO:HG2	1:2:475:ARG:O	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:519:PRO:HG2	1:L:475:ARG:O	1.89	0.71
1:J:598:GLN:HE22	1:L:597:THR:HG21	1.55	0.71
1:R:269:ASP:O	1:U:432:ARG:NH2	2.24	0.71
1:f:519:PRO:HG2	1:g:475:ARG:O	1.90	0.71
1:H:432:ARG:NH2	1:W:269:ASP:O	2.24	0.71
1:H:475:ARG:O	1:W:519:PRO:HG2	1.90	0.71
1:V:519:PRO:HG2	1:X:475:ARG:O	1.89	0.71
1:c:475:ARG:O	1:o:519:PRO:HG2	1.90	0.71
1:g:269:ASP:O	1:h:432:ARG:NH2	2.23	0.71
1:x:432:ARG:NH2	1:y:269:ASP:O	2.23	0.71
1:G:598:GLN:HE22	1:I:597:THR:HG21	1.55	0.71
1:O:269:ASP:O	1:n:432:ARG:NH2	2.23	0.71
1:O:598:GLN:HE22	1:m:597:THR:HG21	1.55	0.71
1:X:269:ASP:O	1:e:432:ARG:NH2	2.24	0.71
1:f:598:GLN:HE22	1:h:597:THR:HG21	1.55	0.71
1:r:598:GLN:HE22	1:s:597:THR:HG21	1.55	0.71
1:6:598:GLN:HE22	1:7:597:THR:HG21	1.55	0.71
1:B:269:ASP:O	1:L:432:ARG:NH2	2.23	0.71
1:V:597:THR:HG21	1:X:598:GLN:HE22	1.56	0.71
1:i:432:ARG:NH2	1:j:269:ASP:O	2.23	0.71
1:w:432:ARG:NH2	1:x:269:ASP:O	2.22	0.71
1:5:519:PRO:HG2	1:7:475:ARG:O	1.91	0.71
1:A:432:ARG:NH2	1:G:269:ASP:O	2.24	0.71
1:D:432:ARG:NH2	1:N:269:ASP:O	2.23	0.71
1:J:432:ARG:NH2	1:L:269:ASP:O	2.23	0.71
1:K:269:ASP:O	1:8:432:ARG:NH2	2.22	0.71
1:V:598:GLN:HE22	1:e:597:THR:HG21	1.55	0.71
1:W:598:GLN:HE22	1:Y:597:THR:HG21	1.56	0.71
1:d:475:ARG:O	1:l:519:PRO:HG2	1.90	0.71
1:j:432:ARG:NH2	1:k:269:ASP:O	2.24	0.71
1:B:475:ARG:O	1:J:519:PRO:HG2	1.90	0.71
1:K:475:ARG:O	1:a:519:PRO:HG2	1.90	0.71
1:M:500:TYR:CE2	1:b:448:THR:HG21	2.26	0.71
1:N:598:GLN:HE22	1:P:597:THR:HG21	1.55	0.71
1:m:432:ARG:NH2	1:n:269:ASP:O	2.24	0.71
1:q:269:ASP:O	1:s:432:ARG:NH2	2.24	0.71
1:1:598:GLN:HE22	1:2:597:THR:HG21	1.56	0.71
1:6:432:ARG:NH2	1:7:269:ASP:O	2.23	0.71
1:D:598:GLN:HE22	1:N:597:THR:HG21	1.56	0.70
1:G:432:ARG:NH2	1:I:269:ASP:O	2.23	0.70
1:X:597:THR:HG21	1:e:598:GLN:HE22	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:597:THR:HG21	1:3:598:GLN:HE22	1.56	0.70
1:i:597:THR:HG21	1:k:598:GLN:HE22	1.56	0.70
1:t:432:ARG:NH2	1:u:269:ASP:O	2.24	0.70
1:A:269:ASP:O	1:I:432:ARG:NH2	2.23	0.70
1:S:598:GLN:HE22	1:U:597:THR:HG21	1.56	0.70
1:Z:598:GLN:HE22	1:4:597:THR:HG21	1.56	0.70
1:j:475:ARG:O	1:k:519:PRO:HG2	1.90	0.70
1:q:519:PRO:HG2	1:s:475:ARG:O	1.90	0.70
1:t:475:ARG:O	1:u:519:PRO:HG2	1.91	0.70
1:x:598:GLN:HE22	1:y:597:THR:HG21	1.56	0.70
1:M:706:LYS:HD3	1:N:382:ASN:HD22	1.56	0.70
1:Q:612:TYR:HA	1:Q:727:GLY:HA2	1.74	0.70
1:T:269:ASP:O	1:l:432:ARG:NH2	2.24	0.70
1:X:612:TYR:HA	1:X:727:GLY:HA2	1.74	0.70
1:s:612:TYR:HA	1:s:727:GLY:HA2	1.74	0.70
1:z:597:THR:HG21	1:2:598:GLN:HE22	1.57	0.70
1:A:598:GLN:HE22	1:G:597:THR:HG21	1.56	0.70
1:B:382:ASN:HD22	1:C:706:LYS:HD3	1.55	0.70
1:K:432:ARG:NH2	1:a:269:ASP:O	2.24	0.70
1:K:598:GLN:HE22	1:a:597:THR:HG21	1.57	0.70
1:q:598:GLN:HE22	1:r:597:THR:HG21	1.55	0.70
1:z:269:ASP:O	1:2:432:ARG:NH2	2.25	0.70
1:A:612:TYR:HA	1:A:727:GLY:HA2	1.74	0.70
1:E:597:THR:HG21	1:F:598:GLN:HE22	1.55	0.70
1:N:612:TYR:HA	1:N:727:GLY:HA2	1.74	0.70
1:Z:269:ASP:O	1:3:432:ARG:NH2	2.24	0.70
1:c:597:THR:HG21	1:p:598:GLN:HE22	1.55	0.70
1:5:612:TYR:HA	1:5:727:GLY:HA2	1.74	0.70
1:C:337:THR:O	1:C:404:ARG:NH1	2.25	0.70
1:E:598:GLN:HE22	1:Q:597:THR:HG21	1.56	0.70
1:O:612:TYR:HA	1:O:727:GLY:HA2	1.74	0.70
1:T:597:THR:HG21	1:l:598:GLN:HE22	1.56	0.70
1:V:269:ASP:O	1:X:432:ARG:NH2	2.24	0.70
1:V:432:ARG:NH2	1:e:269:ASP:O	2.23	0.70
1:a:432:ARG:NH2	1:8:269:ASP:O	2.23	0.70
1:a:598:GLN:HE22	1:8:597:THR:HG21	1.56	0.70
1:i:598:GLN:HE22	1:j:597:THR:HG21	1.55	0.70
1:m:337:THR:O	1:m:404:ARG:NH1	2.25	0.70
1:u:598:GLN:HE22	1:v:597:THR:HG21	1.56	0.70
1:w:337:THR:O	1:w:404:ARG:NH1	2.25	0.70
1:x:612:TYR:HA	1:x:727:GLY:HA2	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:337:THR:O	1:A:404:ARG:NH1	2.25	0.70
1:H:597:THR:HG21	1:Y:598:GLN:HE22	1.56	0.70
1:I:337:THR:O	1:I:404:ARG:NH1	2.25	0.70
1:L:337:THR:O	1:L:404:ARG:NH1	2.25	0.70
1:P:337:THR:O	1:P:404:ARG:NH1	2.25	0.70
1:Q:337:THR:O	1:Q:404:ARG:NH1	2.25	0.70
1:R:598:GLN:HE22	1:S:597:THR:HG21	1.55	0.70
1:R:612:TYR:HA	1:R:727:GLY:HA2	1.74	0.70
1:a:337:THR:O	1:a:404:ARG:NH1	2.25	0.70
1:c:598:GLN:HE22	1:o:597:THR:HG21	1.56	0.70
1:f:612:TYR:HA	1:f:727:GLY:HA2	1.74	0.70
1:g:337:THR:O	1:g:404:ARG:NH1	2.25	0.70
1:i:337:THR:O	1:i:404:ARG:NH1	2.25	0.70
1:k:612:TYR:HA	1:k:727:GLY:HA2	1.74	0.70
1:l:337:THR:O	1:l:404:ARG:NH1	2.25	0.70
1:p:612:TYR:HA	1:p:727:GLY:HA2	1.74	0.70
1:s:337:THR:O	1:s:404:ARG:NH1	2.25	0.70
1:4:612:TYR:HA	1:4:727:GLY:HA2	1.74	0.70
1:J:612:TYR:HA	1:J:727:GLY:HA2	1.74	0.70
1:M:612:TYR:HA	1:M:727:GLY:HA2	1.74	0.70
1:V:337:THR:O	1:V:404:ARG:NH1	2.25	0.70
1:b:337:THR:O	1:b:404:ARG:NH1	2.25	0.70
1:d:612:TYR:HA	1:d:727:GLY:HA2	1.74	0.70
1:e:612:TYR:HA	1:e:727:GLY:HA2	1.74	0.70
1:x:337:THR:O	1:x:404:ARG:NH1	2.25	0.70
1:2:612:TYR:HA	1:2:727:GLY:HA2	1.74	0.70
1:5:269:ASP:O	1:7:432:ARG:NH2	2.25	0.70
1:6:337:THR:O	1:6:404:ARG:NH1	2.25	0.70
1:8:612:TYR:HA	1:8:727:GLY:HA2	1.74	0.70
1:J:627:HIS:CD2	1:J:630:PRO:HG3	2.27	0.70
1:S:337:THR:O	1:S:404:ARG:NH1	2.25	0.70
1:S:612:TYR:HA	1:S:727:GLY:HA2	1.74	0.70
1:T:337:THR:O	1:T:404:ARG:NH1	2.25	0.70
1:Y:337:THR:O	1:Y:404:ARG:NH1	2.25	0.70
1:Z:337:THR:O	1:Z:404:ARG:NH1	2.25	0.70
1:Z:519:PRO:HG2	1:3:475:ARG:O	1.90	0.70
1:d:337:THR:O	1:d:404:ARG:NH1	2.25	0.70
1:k:627:HIS:CD2	1:k:630:PRO:HG3	2.27	0.70
1:t:598:GLN:HE22	1:u:597:THR:HG21	1.57	0.70
1:u:337:THR:O	1:u:404:ARG:NH1	2.25	0.70
1:1:337:THR:O	1:1:404:ARG:NH1	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:432:ARG:NH2	1:2:269:ASP:O	2.23	0.70
1:3:337:THR:O	1:3:404:ARG:NH1	2.25	0.70
1:7:612:TYR:HA	1:7:727:GLY:HA2	1.74	0.70
1:C:475:ARG:O	1:b:519:PRO:HG2	1.91	0.69
1:F:612:TYR:HA	1:F:727:GLY:HA2	1.74	0.69
1:F:627:HIS:CD2	1:F:630:PRO:HG3	2.27	0.69
1:M:337:THR:O	1:M:404:ARG:NH1	2.25	0.69
1:c:337:THR:O	1:c:404:ARG:NH1	2.25	0.69
1:c:612:TYR:HA	1:c:727:GLY:HA2	1.74	0.69
1:q:612:TYR:HA	1:q:727:GLY:HA2	1.74	0.69
1:v:337:THR:O	1:v:404:ARG:NH1	2.25	0.69
1:z:337:THR:O	1:z:404:ARG:NH1	2.25	0.69
1:5:597:THR:HG21	1:7:598:GLN:HE22	1.57	0.69
1:D:337:THR:O	1:D:404:ARG:NH1	2.25	0.69
1:E:337:THR:O	1:E:404:ARG:NH1	2.25	0.69
1:G:337:THR:O	1:G:404:ARG:NH1	2.25	0.69
1:H:337:THR:O	1:H:404:ARG:NH1	2.25	0.69
1:H:598:GLN:HE22	1:W:597:THR:HG21	1.56	0.69
1:Z:612:TYR:HA	1:Z:727:GLY:HA2	1.74	0.69
1:g:627:HIS:CD2	1:g:630:PRO:HG3	2.27	0.69
1:n:337:THR:O	1:n:404:ARG:NH1	2.25	0.69
1:q:627:HIS:CD2	1:q:630:PRO:HG3	2.27	0.69
1:w:597:THR:HG21	1:y:598:GLN:HE22	1.57	0.69
1:z:627:HIS:CD2	1:z:630:PRO:HG3	2.27	0.69
1:3:627:HIS:CD2	1:3:630:PRO:HG3	2.27	0.69
1:F:597:THR:HG21	1:Q:598:GLN:HE22	1.56	0.69
1:K:337:THR:O	1:K:404:ARG:NH1	2.25	0.69
1:K:612:TYR:HA	1:K:727:GLY:HA2	1.74	0.69
1:V:612:TYR:HA	1:V:727:GLY:HA2	1.74	0.69
1:a:627:HIS:CD2	1:a:630:PRO:HG3	2.28	0.69
1:c:432:ARG:NH2	1:o:269:ASP:O	2.24	0.69
1:f:432:ARG:NH2	1:h:269:ASP:O	2.23	0.69
1:h:337:THR:O	1:h:404:ARG:NH1	2.25	0.69
1:l:612:TYR:HA	1:l:727:GLY:HA2	1.74	0.69
1:u:612:TYR:HA	1:u:727:GLY:HA2	1.74	0.69
1:y:337:THR:O	1:y:404:ARG:NH1	2.25	0.69
1:6:612:TYR:HA	1:6:727:GLY:HA2	1.74	0.69
1:B:597:THR:HG21	1:L:598:GLN:HE22	1.55	0.69
1:C:432:ARG:NH2	1:b:269:ASP:O	2.25	0.69
1:C:612:TYR:HA	1:C:727:GLY:HA2	1.74	0.69
1:I:627:HIS:CD2	1:I:630:PRO:HG3	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:337:THR:O	1:R:404:ARG:NH1	2.25	0.69
1:Y:612:TYR:HA	1:Y:727:GLY:HA2	1.74	0.69
1:e:337:THR:O	1:e:404:ARG:NH1	2.25	0.69
1:f:337:THR:O	1:f:404:ARG:NH1	2.25	0.69
1:h:612:TYR:HA	1:h:727:GLY:HA2	1.74	0.69
1:i:269:ASP:O	1:k:432:ARG:NH2	2.24	0.69
1:r:337:THR:O	1:r:404:ARG:NH1	2.25	0.69
1:t:612:TYR:HA	1:t:727:GLY:HA2	1.74	0.69
1:w:269:ASP:O	1:y:432:ARG:NH2	2.25	0.69
1:w:627:HIS:CD2	1:w:630:PRO:HG3	2.28	0.69
1:1:612:TYR:HA	1:1:727:GLY:HA2	1.74	0.69
1:7:337:THR:O	1:7:404:ARG:NH1	2.25	0.69
1:D:612:TYR:HA	1:D:727:GLY:HA2	1.74	0.69
1:S:432:ARG:NH2	1:U:269:ASP:O	2.24	0.69
1:W:612:TYR:HA	1:W:727:GLY:HA2	1.74	0.69
1:Z:432:ARG:NH2	1:4:269:ASP:O	2.24	0.69
1:f:597:THR:HG21	1:g:598:GLN:HE22	1.57	0.69
1:p:337:THR:O	1:p:404:ARG:NH1	2.25	0.69
1:4:627:HIS:CD2	1:4:630:PRO:HG3	2.27	0.69
1:K:627:HIS:CD2	1:K:630:PRO:HG3	2.27	0.69
1:P:627:HIS:CD2	1:P:630:PRO:HG3	2.27	0.69
1:R:597:THR:HG21	1:U:598:GLN:HE22	1.55	0.69
1:m:612:TYR:HA	1:m:727:GLY:HA2	1.74	0.69
1:m:627:HIS:CD2	1:m:630:PRO:HG3	2.27	0.69
1:8:337:THR:O	1:8:404:ARG:NH1	2.25	0.69
1:H:612:TYR:HA	1:H:727:GLY:HA2	1.74	0.69
1:J:337:THR:O	1:J:404:ARG:NH1	2.25	0.69
1:P:612:TYR:HA	1:P:727:GLY:HA2	1.74	0.69
1:W:337:THR:O	1:W:404:ARG:NH1	2.25	0.69
1:X:337:THR:O	1:X:404:ARG:NH1	2.25	0.69
1:a:612:TYR:HA	1:a:727:GLY:HA2	1.74	0.69
1:h:627:HIS:CD2	1:h:630:PRO:HG3	2.28	0.69
1:n:612:TYR:HA	1:n:727:GLY:HA2	1.74	0.69
1:u:627:HIS:CD2	1:u:630:PRO:HG3	2.27	0.69
1:v:612:TYR:HA	1:v:727:GLY:HA2	1.74	0.69
1:2:627:HIS:CD2	1:2:630:PRO:HG3	2.27	0.69
1:D:627:HIS:CD2	1:D:630:PRO:HG3	2.27	0.69
1:L:612:TYR:HA	1:L:727:GLY:HA2	1.74	0.69
1:M:627:HIS:CD2	1:M:630:PRO:HG3	2.27	0.69
1:T:627:HIS:CD2	1:T:630:PRO:HG3	2.27	0.69
1:U:627:HIS:CD2	1:U:630:PRO:HG3	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:627:HIS:CD2	1:Y:630:PRO:HG3	2.28	0.69
1:b:627:HIS:CD2	1:b:630:PRO:HG3	2.27	0.69
1:g:612:TYR:HA	1:g:727:GLY:HA2	1.74	0.69
1:i:612:TYR:HA	1:i:727:GLY:HA2	1.74	0.69
1:k:337:THR:O	1:k:404:ARG:NH1	2.25	0.69
1:n:627:HIS:CD2	1:n:630:PRO:HG3	2.27	0.69
1:o:627:HIS:CD2	1:o:630:PRO:HG3	2.27	0.69
1:s:627:HIS:CD2	1:s:630:PRO:HG3	2.28	0.69
1:t:337:THR:O	1:t:404:ARG:NH1	2.25	0.69
1:2:337:THR:O	1:2:404:ARG:NH1	2.25	0.69
1:5:337:THR:O	1:5:404:ARG:NH1	2.25	0.69
1:B:598:GLN:HE22	1:J:597:THR:HG21	1.56	0.69
1:Q:627:HIS:CD2	1:Q:630:PRO:HG3	2.28	0.69
1:Z:627:HIS:CD2	1:Z:630:PRO:HG3	2.27	0.69
1:d:627:HIS:CD2	1:d:630:PRO:HG3	2.28	0.69
1:f:269:ASP:O	1:g:432:ARG:NH2	2.25	0.69
1:j:337:THR:O	1:j:404:ARG:NH1	2.25	0.69
1:C:627:HIS:CD2	1:C:630:PRO:HG3	2.27	0.69
1:o:598:GLN:HE22	1:p:597:THR:HG21	1.56	0.69
1:4:337:THR:O	1:4:404:ARG:NH1	2.25	0.69
1:E:627:HIS:CD2	1:E:630:PRO:HG3	2.27	0.68
1:F:337:THR:O	1:F:404:ARG:NH1	2.25	0.68
1:L:627:HIS:CD2	1:L:630:PRO:HG3	2.27	0.68
1:T:612:TYR:HA	1:T:727:GLY:HA2	1.74	0.68
1:X:627:HIS:CD2	1:X:630:PRO:HG3	2.27	0.68
1:b:612:TYR:HA	1:b:727:GLY:HA2	1.74	0.68
1:i:627:HIS:CD2	1:i:630:PRO:HG3	2.27	0.68
1:j:598:GLN:HE22	1:k:597:THR:HG21	1.56	0.68
1:l:627:HIS:CD2	1:l:630:PRO:HG3	2.27	0.68
1:q:597:THR:HG21	1:s:598:GLN:HE22	1.57	0.68
1:r:627:HIS:CD2	1:r:630:PRO:HG3	2.27	0.68
1:1:627:HIS:CD2	1:1:630:PRO:HG3	2.28	0.68
1:5:627:HIS:CD2	1:5:630:PRO:HG3	2.27	0.68
1:B:337:THR:O	1:B:404:ARG:NH1	2.25	0.68
1:B:627:HIS:CD2	1:B:630:PRO:HG3	2.27	0.68
1:D:597:THR:HG21	1:P:598:GLN:HE22	1.56	0.68
1:c:627:HIS:CD2	1:c:630:PRO:HG3	2.27	0.68
1:q:337:THR:O	1:q:404:ARG:NH1	2.25	0.68
1:z:612:TYR:HA	1:z:727:GLY:HA2	1.74	0.68
1:3:612:TYR:HA	1:3:727:GLY:HA2	1.74	0.68
1:I:612:TYR:HA	1:I:727:GLY:HA2	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:627:HIS:CD2	1:R:630:PRO:HG3	2.27	0.68
1:S:627:HIS:CD2	1:S:630:PRO:HG3	2.27	0.68
1:V:627:HIS:CD2	1:V:630:PRO:HG3	2.27	0.68
1:e:627:HIS:CD2	1:e:630:PRO:HG3	2.27	0.68
1:p:627:HIS:CD2	1:p:630:PRO:HG3	2.27	0.68
1:w:612:TYR:HA	1:w:727:GLY:HA2	1.74	0.68
1:7:627:HIS:CD2	1:7:630:PRO:HG3	2.27	0.68
1:8:627:HIS:CD2	1:8:630:PRO:HG3	2.28	0.68
1:G:612:TYR:HA	1:G:727:GLY:HA2	1.74	0.68
1:O:337:THR:O	1:O:404:ARG:NH1	2.25	0.68
1:j:627:HIS:CD2	1:j:630:PRO:HG3	2.27	0.68
1:f:627:HIS:CD2	1:f:630:PRO:HG3	2.27	0.68
1:x:627:HIS:CD2	1:x:630:PRO:HG3	2.27	0.68
1:6:627:HIS:CD2	1:6:630:PRO:HG3	2.28	0.68
1:N:337:THR:O	1:N:404:ARG:NH1	2.25	0.68
1:W:627:HIS:CD2	1:W:630:PRO:HG3	2.27	0.68
1:t:627:HIS:CD2	1:t:630:PRO:HG3	2.27	0.68
1:y:612:TYR:HA	1:y:727:GLY:HA2	1.74	0.68
1:A:627:HIS:CD2	1:A:630:PRO:HG3	2.27	0.68
1:E:612:TYR:HA	1:E:727:GLY:HA2	1.74	0.68
1:G:627:HIS:CD2	1:G:630:PRO:HG3	2.27	0.68
1:U:337:THR:O	1:U:404:ARG:NH1	2.25	0.68
1:W:482:CYS:SG	1:W:576:TYR:HB2	2.34	0.68
1:a:482:CYS:SG	1:a:576:TYR:HB2	2.34	0.68
1:g:482:CYS:SG	1:g:576:TYR:HB2	2.34	0.68
1:r:612:TYR:HA	1:r:727:GLY:HA2	1.74	0.68
1:t:482:CYS:SG	1:t:576:TYR:HB2	2.34	0.68
1:w:482:CYS:SG	1:w:576:TYR:HB2	2.34	0.68
1:y:627:HIS:CD2	1:y:630:PRO:HG3	2.27	0.68
1:G:482:CYS:SG	1:G:576:TYR:HB2	2.34	0.68
1:I:482:CYS:SG	1:I:576:TYR:HB2	2.34	0.68
1:J:482:CYS:SG	1:J:576:TYR:HB2	2.34	0.68
1:U:612:TYR:HA	1:U:727:GLY:HA2	1.74	0.68
1:d:482:CYS:SG	1:d:576:TYR:HB2	2.34	0.68
1:i:482:CYS:SG	1:i:576:TYR:HB2	2.34	0.68
1:l:482:CYS:SG	1:l:576:TYR:HB2	2.34	0.68
1:4:482:CYS:SG	1:4:576:TYR:HB2	2.34	0.68
1:B:612:TYR:HA	1:B:727:GLY:HA2	1.74	0.68
1:C:500:TYR:CE2	1:M:448:THR:HG21	2.29	0.68
1:E:482:CYS:SG	1:E:576:TYR:HB2	2.34	0.68
1:L:482:CYS:SG	1:L:576:TYR:HB2	2.34	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:482:CYS:SG	1:M:576:TYR:HB2	2.34	0.68
1:T:482:CYS:SG	1:T:576:TYR:HB2	2.34	0.68
1:Z:482:CYS:SG	1:Z:576:TYR:HB2	2.34	0.68
1:j:612:TYR:HA	1:j:727:GLY:HA2	1.74	0.68
1:k:482:CYS:SG	1:k:576:TYR:HB2	2.34	0.68
1:m:598:GLN:HE22	1:n:597:THR:HG21	1.56	0.68
1:o:337:THR:O	1:o:404:ARG:NH1	2.25	0.68
1:v:627:HIS:CD2	1:v:630:PRO:HG3	2.27	0.68
1:y:482:CYS:SG	1:y:576:TYR:HB2	2.34	0.68
1:2:482:CYS:SG	1:2:576:TYR:HB2	2.34	0.68
1:3:482:CYS:SG	1:3:576:TYR:HB2	2.34	0.68
1:F:482:CYS:SG	1:F:576:TYR:HB2	2.34	0.68
1:H:482:CYS:SG	1:H:576:TYR:HB2	2.34	0.68
1:o:612:TYR:HA	1:o:727:GLY:HA2	1.74	0.68
1:q:482:CYS:SG	1:q:576:TYR:HB2	2.34	0.68
1:r:482:CYS:SG	1:r:576:TYR:HB2	2.34	0.68
1:v:482:CYS:SG	1:v:576:TYR:HB2	2.34	0.68
1:z:482:CYS:SG	1:z:576:TYR:HB2	2.34	0.68
1:N:627:HIS:CD2	1:N:630:PRO:HG3	2.28	0.67
1:U:482:CYS:SG	1:U:576:TYR:HB2	2.34	0.67
1:b:482:CYS:SG	1:b:576:TYR:HB2	2.34	0.67
1:O:627:HIS:CD2	1:O:630:PRO:HG3	2.27	0.67
1:h:482:CYS:SG	1:h:576:TYR:HB2	2.34	0.67
1:s:482:CYS:SG	1:s:576:TYR:HB2	2.34	0.67
1:A:482:CYS:SG	1:A:576:TYR:HB2	2.34	0.67
1:C:598:GLN:HE22	1:b:597:THR:HG21	1.58	0.67
1:H:627:HIS:CD2	1:H:630:PRO:HG3	2.28	0.67
1:K:482:CYS:SG	1:K:576:TYR:HB2	2.34	0.67
1:6:482:CYS:SG	1:6:576:TYR:HB2	2.34	0.67
1:C:448:THR:HG21	1:b:500:TYR:CE2	2.29	0.67
1:Q:482:CYS:SG	1:Q:576:TYR:HB2	2.34	0.67
1:o:482:CYS:SG	1:o:576:TYR:HB2	2.34	0.67
1:x:482:CYS:SG	1:x:576:TYR:HB2	2.34	0.67
1:8:482:CYS:SG	1:8:576:TYR:HB2	2.34	0.67
1:S:482:CYS:SG	1:S:576:TYR:HB2	2.34	0.67
1:l:482:CYS:SG	1:l:576:TYR:HB2	2.34	0.67
1:V:482:CYS:SG	1:V:576:TYR:HB2	2.34	0.67
1:f:482:CYS:SG	1:f:576:TYR:HB2	2.34	0.67
1:B:482:CYS:SG	1:B:576:TYR:HB2	2.34	0.67
1:C:482:CYS:SG	1:C:576:TYR:HB2	2.34	0.67
1:D:482:CYS:SG	1:D:576:TYR:HB2	2.34	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:482:CYS:SG	1:c:576:TYR:HB2	2.34	0.67
1:p:482:CYS:SG	1:p:576:TYR:HB2	2.34	0.67
1:u:482:CYS:SG	1:u:576:TYR:HB2	2.34	0.67
1:R:482:CYS:SG	1:R:576:TYR:HB2	2.34	0.67
1:Y:482:CYS:SG	1:Y:576:TYR:HB2	2.34	0.67
1:j:482:CYS:SG	1:j:576:TYR:HB2	2.34	0.67
1:n:482:CYS:SG	1:n:576:TYR:HB2	2.34	0.67
1:P:482:CYS:SG	1:P:576:TYR:HB2	2.34	0.66
1:7:482:CYS:SG	1:7:576:TYR:HB2	2.34	0.66
1:O:482:CYS:SG	1:O:576:TYR:HB2	2.34	0.66
1:e:482:CYS:SG	1:e:576:TYR:HB2	2.34	0.66
1:m:482:CYS:SG	1:m:576:TYR:HB2	2.34	0.66
1:C:553:ASP:OD2	1:M:459:ARG:NH2	2.25	0.66
1:N:482:CYS:SG	1:N:576:TYR:HB2	2.34	0.66
1:X:482:CYS:SG	1:X:576:TYR:HB2	2.34	0.66
1:C:459:ARG:NH2	1:b:553:ASP:OD2	2.24	0.66
1:5:482:CYS:SG	1:5:576:TYR:HB2	2.34	0.66
1:L:528:ASP:OD1	1:L:566:ARG:NH1	2.29	0.66
1:U:528:ASP:OD1	1:U:566:ARG:NH1	2.29	0.66
1:s:528:ASP:OD1	1:s:566:ARG:NH1	2.29	0.66
1:A:528:ASP:OD1	1:A:566:ARG:NH1	2.29	0.66
1:D:528:ASP:OD1	1:D:566:ARG:NH1	2.29	0.66
1:Y:528:ASP:OD1	1:Y:566:ARG:NH1	2.29	0.66
1:i:528:ASP:OD1	1:i:566:ARG:NH1	2.29	0.66
1:o:528:ASP:OD1	1:o:566:ARG:NH1	2.29	0.66
1:u:528:ASP:OD1	1:u:566:ARG:NH1	2.30	0.66
1:x:528:ASP:OD1	1:x:566:ARG:NH1	2.29	0.66
1:G:528:ASP:OD1	1:G:566:ARG:NH1	2.29	0.65
1:Q:528:ASP:OD1	1:Q:566:ARG:NH1	2.30	0.65
1:X:528:ASP:OD1	1:X:566:ARG:NH1	2.30	0.65
1:h:252:TYR:OH	1:h:372:VAL:O	2.14	0.65
1:n:528:ASP:OD1	1:n:566:ARG:NH1	2.30	0.65
1:o:252:TYR:OH	1:o:372:VAL:O	2.14	0.65
1:5:528:ASP:OD1	1:5:566:ARG:NH1	2.30	0.65
1:G:238[A]:ARG:NH1	1:G:683:GLU:OE2	2.30	0.65
1:H:528:ASP:OD1	1:H:566:ARG:NH1	2.29	0.65
1:J:528:ASP:OD1	1:J:566:ARG:NH1	2.30	0.65
1:K:252:TYR:OH	1:K:372:VAL:O	2.14	0.65
1:M:238[A]:ARG:NH1	1:M:683:GLU:OE2	2.30	0.65
1:d:238[A]:ARG:NH1	1:d:683:GLU:OE2	2.30	0.65
1:h:528:ASP:OD1	1:h:566:ARG:NH1	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:528:ASP:OD1	1:k:566:ARG:NH1	2.30	0.65
1:y:528:ASP:OD1	1:y:566:ARG:NH1	2.30	0.65
1:K:528:ASP:OD1	1:K:566:ARG:NH1	2.30	0.65
1:L:621:ILE:HG12	1:L:630:PRO:HB3	1.79	0.65
1:Z:528:ASP:OD1	1:Z:566:ARG:NH1	2.29	0.65
1:Z:621:ILE:HG12	1:Z:630:PRO:HB3	1.79	0.65
1:i:621:ILE:HG12	1:i:630:PRO:HB3	1.79	0.65
1:v:528:ASP:OD1	1:v:566:ARG:NH1	2.30	0.65
1:y:238[A]:ARG:NH1	1:y:683:GLU:OE2	2.30	0.65
1:l:621:ILE:HG12	1:l:630:PRO:HB3	1.79	0.65
1:A:621:ILE:HG12	1:A:630:PRO:HB3	1.79	0.65
1:B:238[A]:ARG:NH1	1:B:683:GLU:OE2	2.30	0.65
1:H:238[A]:ARG:NH1	1:H:683:GLU:OE2	2.30	0.65
1:K:621:ILE:HG12	1:K:630:PRO:HB3	1.79	0.65
1:S:621:ILE:HG12	1:S:630:PRO:HB3	1.79	0.65
1:W:238[A]:ARG:NH1	1:W:683:GLU:OE2	2.30	0.65
1:c:621:ILE:HG12	1:c:630:PRO:HB3	1.79	0.65
1:h:621:ILE:HG12	1:h:630:PRO:HB3	1.79	0.65
1:j:238[A]:ARG:NH1	1:j:683:GLU:OE2	2.30	0.65
1:k:238[A]:ARG:NH1	1:k:683:GLU:OE2	2.30	0.65
1:t:238[A]:ARG:NH1	1:t:683:GLU:OE2	2.30	0.65
1:v:238[A]:ARG:NH1	1:v:683:GLU:OE2	2.30	0.65
1:x:621:ILE:HG12	1:x:630:PRO:HB3	1.79	0.65
1:3:528:ASP:OD1	1:3:566:ARG:NH1	2.29	0.65
1:A:238[A]:ARG:NH1	1:A:683:GLU:OE2	2.30	0.65
1:D:297:GLN:HA	1:D:300:ILE:HG22	1.79	0.65
1:J:238[A]:ARG:NH1	1:J:683:GLU:OE2	2.30	0.65
1:P:238[A]:ARG:NH1	1:P:683:GLU:OE2	2.30	0.65
1:V:528:ASP:OD1	1:V:566:ARG:NH1	2.29	0.65
1:n:297:GLN:HA	1:n:300:ILE:HG22	1.79	0.65
1:p:238[A]:ARG:NH1	1:p:683:GLU:OE2	2.30	0.65
1:x:238[A]:ARG:NH1	1:x:683:GLU:OE2	2.30	0.65
1:z:528:ASP:OD1	1:z:566:ARG:NH1	2.30	0.65
1:1:528:ASP:OD1	1:1:566:ARG:NH1	2.29	0.65
1:6:528:ASP:OD1	1:6:566:ARG:NH1	2.29	0.65
1:R:238[A]:ARG:NH1	1:R:683:GLU:OE2	2.30	0.65
1:T:528:ASP:OD1	1:T:566:ARG:NH1	2.29	0.65
1:d:621:ILE:HG12	1:d:630:PRO:HB3	1.79	0.65
1:f:297:GLN:HA	1:f:300:ILE:HG22	1.79	0.65
1:j:252:TYR:OH	1:j:372:VAL:O	2.14	0.65
1:y:252:TYR:OH	1:y:372:VAL:O	2.14	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:297:GLN:HA	1:8:300:ILE:HG22	1.79	0.65
1:B:252:TYR:OH	1:B:372:VAL:O	2.14	0.65
1:C:528:ASP:OD1	1:C:566:ARG:NH1	2.30	0.65
1:D:252:TYR:OH	1:D:372:VAL:O	2.14	0.65
1:E:621:ILE:HG12	1:E:630:PRO:HB3	1.79	0.65
1:N:528:ASP:OD1	1:N:566:ARG:NH1	2.29	0.65
1:N:621:ILE:HG12	1:N:630:PRO:HB3	1.79	0.65
1:O:252:TYR:OH	1:O:372:VAL:O	2.14	0.65
1:O:621:ILE:HG12	1:O:630:PRO:HB3	1.79	0.65
1:Q:238[A]:ARG:NH1	1:Q:683:GLU:OE2	2.30	0.65
1:Y:238[A]:ARG:NH1	1:Y:683:GLU:OE2	2.30	0.65
1:a:528:ASP:OD1	1:a:566:ARG:NH1	2.30	0.65
1:b:528:ASP:OD1	1:b:566:ARG:NH1	2.30	0.65
1:e:528:ASP:OD1	1:e:566:ARG:NH1	2.29	0.65
1:g:528:ASP:OD1	1:g:566:ARG:NH1	2.29	0.65
1:m:238[A]:ARG:NH1	1:m:683:GLU:OE2	2.30	0.65
1:r:297:GLN:HA	1:r:300:ILE:HG22	1.79	0.65
1:r:528:ASP:OD1	1:r:566:ARG:NH1	2.29	0.65
1:t:528:ASP:OD1	1:t:566:ARG:NH1	2.29	0.65
1:u:238[A]:ARG:NH1	1:u:683:GLU:OE2	2.30	0.65
1:4:528:ASP:OD1	1:4:566:ARG:NH1	2.30	0.65
1:E:297:GLN:HA	1:E:300:ILE:HG22	1.79	0.65
1:E:528:ASP:OD1	1:E:566:ARG:NH1	2.30	0.65
1:G:252:TYR:OH	1:G:372:VAL:O	2.14	0.65
1:I:528:ASP:OD1	1:I:566:ARG:NH1	2.29	0.65
1:L:297:GLN:HA	1:L:300:ILE:HG22	1.79	0.65
1:M:621:ILE:HG12	1:M:630:PRO:HB3	1.79	0.65
1:O:528:ASP:OD1	1:O:566:ARG:NH1	2.30	0.65
1:W:528:ASP:OD1	1:W:566:ARG:NH1	2.29	0.65
1:a:238[A]:ARG:NH1	1:a:683:GLU:OE2	2.30	0.65
1:h:238[A]:ARG:NH1	1:h:683:GLU:OE2	2.30	0.65
1:l:528:ASP:OD1	1:l:566:ARG:NH1	2.29	0.65
1:n:252:TYR:OH	1:n:372:VAL:O	2.14	0.65
1:r:621:ILE:HG12	1:r:630:PRO:HB3	1.79	0.65
1:v:621:ILE:HG12	1:v:630:PRO:HB3	1.79	0.65
1:w:528:ASP:OD1	1:w:566:ARG:NH1	2.29	0.65
1:2:528:ASP:OD1	1:2:566:ARG:NH1	2.29	0.65
1:5:238[A]:ARG:NH1	1:5:683:GLU:OE2	2.30	0.65
1:7:528:ASP:OD1	1:7:566:ARG:NH1	2.29	0.65
1:B:451:PRO:HA	1:B:456:THR:HA	1.79	0.65
1:G:297:GLN:HA	1:G:300:ILE:HG22	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:621:ILE:HG12	1:H:630:PRO:HB3	1.79	0.65
1:K:238[A]:ARG:NH1	1:K:683:GLU:OE2	2.30	0.65
1:M:528:ASP:OD1	1:M:566:ARG:NH1	2.30	0.65
1:N:252:TYR:OH	1:N:372:VAL:O	2.14	0.65
1:R:621:ILE:HG12	1:R:630:PRO:HB3	1.79	0.65
1:X:238[A]:ARG:NH1	1:X:683:GLU:OE2	2.30	0.65
1:f:238[A]:ARG:NH1	1:f:683:GLU:OE2	2.30	0.65
1:f:528:ASP:OD1	1:f:566:ARG:NH1	2.30	0.65
1:h:508:TYR:HD2	1:h:517:VAL:HG22	1.62	0.65
1:i:297:GLN:HA	1:i:300:ILE:HG22	1.79	0.65
1:p:621:ILE:HG12	1:p:630:PRO:HB3	1.79	0.65
1:q:235:MET:HB2	1:q:238[B]:ARG:HG3	1.79	0.65
1:s:238[A]:ARG:NH1	1:s:683:GLU:OE2	2.30	0.65
1:s:252:TYR:OH	1:s:372:VAL:O	2.14	0.65
1:y:297:GLN:HA	1:y:300:ILE:HG22	1.79	0.65
1:z:252:TYR:OH	1:z:372:VAL:O	2.14	0.65
1:2:252:TYR:OH	1:2:372:VAL:O	2.14	0.65
1:2:297:GLN:HA	1:2:300:ILE:HG22	1.79	0.65
1:4:297:GLN:HA	1:4:300:ILE:HG22	1.79	0.65
1:8:238[A]:ARG:NH1	1:8:683:GLU:OE2	2.30	0.65
1:A:297:GLN:HA	1:A:300:ILE:HG22	1.79	0.65
1:D:235:MET:HB2	1:D:238[B]:ARG:HG3	1.79	0.65
1:F:528:ASP:OD1	1:F:566:ARG:NH1	2.29	0.65
1:J:297:GLN:HA	1:J:300:ILE:HG22	1.79	0.65
1:K:508:TYR:HD2	1:K:517:VAL:HG22	1.62	0.65
1:N:508:TYR:HD2	1:N:517:VAL:HG22	1.62	0.65
1:O:508:TYR:HD2	1:O:517:VAL:HG22	1.63	0.65
1:P:528:ASP:OD1	1:P:566:ARG:NH1	2.29	0.65
1:Q:252:TYR:OH	1:Q:372:VAL:O	2.14	0.65
1:T:451:PRO:HA	1:T:456:THR:HA	1.79	0.65
1:V:508:TYR:HD2	1:V:517:VAL:HG22	1.62	0.65
1:Z:238[A]:ARG:NH1	1:Z:683:GLU:OE2	2.30	0.65
1:a:252:TYR:OH	1:a:372:VAL:O	2.14	0.65
1:d:528:ASP:OD1	1:d:566:ARG:NH1	2.29	0.65
1:f:621:ILE:HG12	1:f:630:PRO:HB3	1.79	0.65
1:g:238[A]:ARG:NH1	1:g:683:GLU:OE2	2.30	0.65
1:j:451:PRO:HA	1:j:456:THR:HA	1.79	0.65
1:n:235:MET:HB2	1:n:238[B]:ARG:HG3	1.79	0.65
1:q:238[A]:ARG:NH1	1:q:683:GLU:OE2	2.30	0.65
1:q:528:ASP:OD1	1:q:566:ARG:NH1	2.30	0.65
1:v:508:TYR:HD2	1:v:517:VAL:HG22	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:297:GLN:HA	1:w:300:ILE:HG22	1.79	0.65
1:x:297:GLN:HA	1:x:300:ILE:HG22	1.79	0.65
1:8:621:ILE:HG12	1:8:630:PRO:HB3	1.79	0.65
1:E:238[A]:ARG:NH1	1:E:683:GLU:OE2	2.30	0.64
1:F:235:MET:HB2	1:F:238[B]:ARG:HG3	1.80	0.64
1:F:238[A]:ARG:NH1	1:F:683:GLU:OE2	2.30	0.64
1:H:508:TYR:HD2	1:H:517:VAL:HG22	1.62	0.64
1:I:297:GLN:HA	1:I:300:ILE:HG22	1.79	0.64
1:S:528:ASP:OD1	1:S:566:ARG:NH1	2.29	0.64
1:a:621:ILE:HG12	1:a:630:PRO:HB3	1.79	0.64
1:b:451:PRO:HA	1:b:456:THR:HA	1.79	0.64
1:c:528:ASP:OD1	1:c:566:ARG:NH1	2.30	0.64
1:f:252:TYR:OH	1:f:372:VAL:O	2.14	0.64
1:g:252:TYR:OH	1:g:372:VAL:O	2.14	0.64
1:j:297:GLN:HA	1:j:300:ILE:HG22	1.79	0.64
1:m:528:ASP:OD1	1:m:566:ARG:NH1	2.29	0.64
1:p:508:TYR:HD2	1:p:517:VAL:HG22	1.62	0.64
1:p:528:ASP:OD1	1:p:566:ARG:NH1	2.30	0.64
1:y:508:TYR:HD2	1:y:517:VAL:HG22	1.62	0.64
1:l:238[A]:ARG:NH1	1:l:683:GLU:OE2	2.30	0.64
1:8:528:ASP:OD1	1:8:566:ARG:NH1	2.30	0.64
1:B:297:GLN:HA	1:B:300:ILE:HG22	1.79	0.64
1:H:235:MET:HB2	1:H:238[B]:ARG:HG3	1.80	0.64
1:I:508:TYR:HD2	1:I:517:VAL:HG22	1.62	0.64
1:R:235:MET:HB2	1:R:238[B]:ARG:HG3	1.80	0.64
1:R:508:TYR:HD2	1:R:517:VAL:HG22	1.62	0.64
1:X:621:ILE:HG12	1:X:630:PRO:HB3	1.79	0.64
1:Z:297:GLN:HA	1:Z:300:ILE:HG22	1.79	0.64
1:b:508:TYR:HD2	1:b:517:VAL:HG22	1.62	0.64
1:g:621:ILE:HG12	1:g:630:PRO:HB3	1.79	0.64
1:i:508:TYR:HD2	1:i:517:VAL:HG22	1.62	0.64
1:k:235:MET:HB2	1:k:238[B]:ARG:HG3	1.80	0.64
1:l:235:MET:HB2	1:l:238[B]:ARG:HG3	1.79	0.64
1:o:451:PRO:HA	1:o:456:THR:HA	1.79	0.64
1:1:297:GLN:HA	1:1:300:ILE:HG22	1.79	0.64
1:3:252:TYR:OH	1:3:372:VAL:O	2.14	0.64
1:6:508:TYR:HD2	1:6:517:VAL:HG22	1.63	0.64
1:B:528:ASP:OD1	1:B:566:ARG:NH1	2.29	0.64
1:C:235:MET:HB2	1:C:238[B]:ARG:HG3	1.80	0.64
1:D:238[A]:ARG:NH1	1:D:683:GLU:OE2	2.30	0.64
1:G:508:TYR:HD2	1:G:517:VAL:HG22	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:235:MET:HB2	1:I:238[B]:ARG:HG3	1.80	0.64
1:J:235:MET:HB2	1:J:238[B]:ARG:HG3	1.80	0.64
1:P:451:PRO:HA	1:P:456:THR:HA	1.79	0.64
1:Q:297:GLN:HA	1:Q:300:ILE:HG22	1.79	0.64
1:R:528:ASP:OD1	1:R:566:ARG:NH1	2.30	0.64
1:S:451:PRO:HA	1:S:456:THR:HA	1.79	0.64
1:T:238[A]:ARG:NH1	1:T:683:GLU:OE2	2.30	0.64
1:T:508:TYR:HD2	1:T:517:VAL:HG22	1.63	0.64
1:U:238[A]:ARG:NH1	1:U:683:GLU:OE2	2.30	0.64
1:V:297:GLN:HA	1:V:300:ILE:HG22	1.79	0.64
1:b:238[A]:ARG:NH1	1:b:683:GLU:OE2	2.30	0.64
1:c:451:PRO:HA	1:c:456:THR:HA	1.79	0.64
1:d:451:PRO:HA	1:d:456:THR:HA	1.79	0.64
1:f:451:PRO:HA	1:f:456:THR:HA	1.79	0.64
1:f:508:TYR:HD2	1:f:517:VAL:HG22	1.62	0.64
1:h:451:PRO:HA	1:h:456:THR:HA	1.79	0.64
1:k:297:GLN:HA	1:k:300:ILE:HG22	1.79	0.64
1:k:621:ILE:HG12	1:k:630:PRO:HB3	1.79	0.64
1:m:451:PRO:HA	1:m:456:THR:HA	1.79	0.64
1:n:238[A]:ARG:NH1	1:n:683:GLU:OE2	2.30	0.64
1:p:235:MET:HB2	1:p:238[B]:ARG:HG3	1.80	0.64
1:r:238[A]:ARG:NH1	1:r:683:GLU:OE2	2.30	0.64
1:v:235:MET:HB2	1:v:238[B]:ARG:HG3	1.80	0.64
1:w:235:MET:HB2	1:w:238[B]:ARG:HG3	1.80	0.64
1:w:238[A]:ARG:NH1	1:w:683:GLU:OE2	2.30	0.64
1:8:252:TYR:OH	1:8:372:VAL:O	2.14	0.64
1:8:451:PRO:HA	1:8:456:THR:HA	1.79	0.64
1:8:508:TYR:HD2	1:8:517:VAL:HG22	1.62	0.64
1:H:451:PRO:HA	1:H:456:THR:HA	1.79	0.64
1:I:238[A]:ARG:NH1	1:I:683:GLU:OE2	2.30	0.64
1:J:621:ILE:HG12	1:J:630:PRO:HB3	1.79	0.64
1:K:451:PRO:HA	1:K:456:THR:HA	1.79	0.64
1:U:451:PRO:HA	1:U:456:THR:HA	1.79	0.64
1:V:252:TYR:OH	1:V:372:VAL:O	2.14	0.64
1:Z:508:TYR:HD2	1:Z:517:VAL:HG22	1.63	0.64
1:g:451:PRO:HA	1:g:456:THR:HA	1.80	0.64
1:j:528:ASP:OD1	1:j:566:ARG:NH1	2.30	0.64
1:o:238[A]:ARG:NH1	1:o:683:GLU:OE2	2.30	0.64
1:w:508:TYR:HD2	1:w:517:VAL:HG22	1.63	0.64
1:y:451:PRO:HA	1:y:456:THR:HA	1.79	0.64
1:z:451:PRO:HA	1:z:456:THR:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:508:TYR:HD2	1:2:517:VAL:HG22	1.62	0.64
1:3:451:PRO:HA	1:3:456:THR:HA	1.79	0.64
1:5:621:ILE:HG12	1:5:630:PRO:HB3	1.79	0.64
1:6:238[A]:ARG:NH1	1:6:683:GLU:OE2	2.30	0.64
1:6:297:GLN:HA	1:6:300:ILE:HG22	1.79	0.64
1:E:235:MET:HB2	1:E:238[B]:ARG:HG3	1.80	0.64
1:G:451:PRO:HA	1:G:456:THR:HA	1.79	0.64
1:L:508:TYR:HD2	1:L:517:VAL:HG22	1.62	0.64
1:M:451:PRO:HA	1:M:456:THR:HA	1.79	0.64
1:N:238[A]:ARG:NH1	1:N:683:GLU:OE2	2.30	0.64
1:Q:235:MET:HB2	1:Q:238[B]:ARG:HG3	1.80	0.64
1:U:297:GLN:HA	1:U:300:ILE:HG22	1.79	0.64
1:V:238[A]:ARG:NH1	1:V:683:GLU:OE2	2.30	0.64
1:Y:508:TYR:HD2	1:Y:517:VAL:HG22	1.62	0.64
1:a:451:PRO:HA	1:a:456:THR:HA	1.80	0.64
1:b:297:GLN:HA	1:b:300:ILE:HG22	1.79	0.64
1:c:297:GLN:HA	1:c:300:ILE:HG22	1.79	0.64
1:e:297:GLN:HA	1:e:300:ILE:HG22	1.79	0.64
1:e:621:ILE:HG12	1:e:630:PRO:HB3	1.79	0.64
1:i:451:PRO:HA	1:i:456:THR:HA	1.79	0.64
1:l:238[A]:ARG:NH1	1:l:683:GLU:OE2	2.30	0.64
1:m:508:TYR:HD2	1:m:517:VAL:HG22	1.62	0.64
1:v:451:PRO:HA	1:v:456:THR:HA	1.80	0.64
1:z:297:GLN:HA	1:z:300:ILE:HG22	1.79	0.64
1:1:508:TYR:HD2	1:1:517:VAL:HG22	1.63	0.64
1:2:621:ILE:HG12	1:2:630:PRO:HB3	1.79	0.64
1:3:297:GLN:HA	1:3:300:ILE:HG22	1.79	0.64
1:3:621:ILE:HG12	1:3:630:PRO:HB3	1.79	0.64
1:5:508:TYR:HD2	1:5:517:VAL:HG22	1.62	0.64
1:7:621:ILE:HG12	1:7:630:PRO:HB3	1.79	0.64
1:C:238[A]:ARG:NH1	1:C:683:GLU:OE2	2.30	0.64
1:D:621:ILE:HG12	1:D:630:PRO:HB3	1.79	0.64
1:G:621:ILE:HG12	1:G:630:PRO:HB3	1.79	0.64
1:L:451:PRO:HA	1:L:456:THR:HA	1.79	0.64
1:S:238[A]:ARG:NH1	1:S:683:GLU:OE2	2.30	0.64
1:T:297:GLN:HA	1:T:300:ILE:HG22	1.79	0.64
1:n:621:ILE:HG12	1:n:630:PRO:HB3	1.79	0.64
1:r:235:MET:HB2	1:r:238[B]:ARG:HG3	1.80	0.64
1:s:235:MET:HB2	1:s:238[B]:ARG:HG3	1.80	0.64
1:s:297:GLN:HA	1:s:300:ILE:HG22	1.79	0.64
1:s:451:PRO:HA	1:s:456:THR:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:621:ILE:HG12	1:w:630:PRO:HB3	1.79	0.64
1:x:252:TYR:OH	1:x:372:VAL:O	2.14	0.64
1:z:508:TYR:HD2	1:z:517:VAL:HG22	1.62	0.64
1:6:252:TYR:OH	1:6:372:VAL:O	2.14	0.64
1:7:238[A]:ARG:NH1	1:7:683:GLU:OE2	2.30	0.64
1:7:297:GLN:HA	1:7:300:ILE:HG22	1.79	0.64
1:B:621:ILE:HG12	1:B:630:PRO:HB3	1.79	0.64
1:E:451:PRO:HA	1:E:456:THR:HA	1.79	0.64
1:E:508:TYR:HD2	1:E:517:VAL:HG22	1.62	0.64
1:I:621:ILE:HG12	1:I:630:PRO:HB3	1.79	0.64
1:L:252:TYR:OH	1:L:372:VAL:O	2.14	0.64
1:M:235:MET:HB2	1:M:238[B]:ARG:HG3	1.80	0.64
1:N:451:PRO:HA	1:N:456:THR:HA	1.79	0.64
1:O:238[A]:ARG:NH1	1:O:683:GLU:OE2	2.30	0.64
1:P:508:TYR:HD2	1:P:517:VAL:HG22	1.62	0.64
1:S:297:GLN:HA	1:S:300:ILE:HG22	1.79	0.64
1:W:621:ILE:HG12	1:W:630:PRO:HB3	1.79	0.64
1:X:508:TYR:HD2	1:X:517:VAL:HG22	1.63	0.64
1:c:238[A]:ARG:NH1	1:c:683:GLU:OE2	2.30	0.64
1:d:235:MET:HB2	1:d:238[B]:ARG:HG3	1.80	0.64
1:l:297:GLN:HA	1:l:300:ILE:HG22	1.79	0.64
1:u:508:TYR:HD2	1:u:517:VAL:HG22	1.62	0.64
1:y:621:ILE:HG12	1:y:630:PRO:HB3	1.79	0.64
1:z:621:ILE:HG12	1:z:630:PRO:HB3	1.79	0.64
1:4:621:ILE:HG12	1:4:630:PRO:HB3	1.79	0.64
1:A:252:TYR:OH	1:A:372:VAL:O	2.14	0.64
1:C:451:PRO:HA	1:C:456:THR:HA	1.79	0.64
1:F:297:GLN:HA	1:F:300:ILE:HG22	1.79	0.64
1:L:238[A]:ARG:NH1	1:L:683:GLU:OE2	2.30	0.64
1:M:297:GLN:HA	1:M:300:ILE:HG22	1.79	0.64
1:M:601:LEU:N	1:M:604:MET:SD	2.69	0.64
1:O:451:PRO:HA	1:O:456:THR:HA	1.79	0.64
1:Q:451:PRO:HA	1:Q:456:THR:HA	1.79	0.64
1:U:621:ILE:HG12	1:U:630:PRO:HB3	1.79	0.64
1:W:508:TYR:HD2	1:W:517:VAL:HG22	1.63	0.64
1:e:238[A]:ARG:NH1	1:e:683:GLU:OE2	2.30	0.64
1:i:238[A]:ARG:NH1	1:i:683:GLU:OE2	2.30	0.64
1:i:252:TYR:OH	1:i:372:VAL:O	2.14	0.64
1:r:451:PRO:HA	1:r:456:THR:HA	1.79	0.64
1:r:508:TYR:HD2	1:r:517:VAL:HG22	1.63	0.64
1:w:252:TYR:OH	1:w:372:VAL:O	2.14	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:508:TYR:HD2	1:3:517:VAL:HG22	1.62	0.64
1:4:508:TYR:HD2	1:4:517:VAL:HG22	1.63	0.64
1:6:621:ILE:HG12	1:6:630:PRO:HB3	1.79	0.64
1:X:235:MET:HB2	1:X:238[B]:ARG:HG3	1.79	0.64
1:Y:252:TYR:OH	1:Y:372:VAL:O	2.14	0.64
1:d:297:GLN:HA	1:d:300:ILE:HG22	1.79	0.64
1:e:235:MET:HB2	1:e:238[B]:ARG:HG3	1.79	0.64
1:e:483:TYR:H	1:e:523:MET:CE	2.11	0.64
1:j:621:ILE:HG12	1:j:630:PRO:HB3	1.79	0.64
1:m:518:ASN:HB3	1:m:519:PRO:HD3	1.80	0.64
1:n:345:ASP:OD1	1:n:346:SER:N	2.31	0.64
1:o:297:GLN:HA	1:o:300:ILE:HG22	1.79	0.64
1:o:621:ILE:HG12	1:o:630:PRO:HB3	1.79	0.64
1:q:621:ILE:HG12	1:q:630:PRO:HB3	1.79	0.64
1:t:508:TYR:HD2	1:t:517:VAL:HG22	1.63	0.64
1:t:621:ILE:HG12	1:t:630:PRO:HB3	1.79	0.64
1:u:297:GLN:HA	1:u:300:ILE:HG22	1.79	0.64
1:1:451:PRO:HA	1:1:456:THR:HA	1.79	0.64
1:3:235:MET:HB2	1:3:238[B]:ARG:HG3	1.80	0.64
1:3:238[A]:ARG:NH1	1:3:683:GLU:OE2	2.30	0.64
1:7:483:TYR:H	1:7:523:MET:CE	2.11	0.64
1:C:297:GLN:HA	1:C:300:ILE:HG22	1.79	0.64
1:F:621:ILE:HG12	1:F:630:PRO:HB3	1.79	0.64
1:I:451:PRO:HA	1:I:456:THR:HA	1.79	0.64
1:L:518:ASN:HB3	1:L:519:PRO:HD3	1.80	0.64
1:N:235:MET:HB2	1:N:238[B]:ARG:HG3	1.80	0.64
1:N:297:GLN:HA	1:N:300:ILE:HG22	1.79	0.64
1:O:235:MET:HB2	1:O:238[B]:ARG:HG3	1.79	0.64
1:P:518:ASN:HB3	1:P:519:PRO:HD3	1.80	0.64
1:Y:297:GLN:HA	1:Y:300:ILE:HG22	1.79	0.64
1:Z:235:MET:HB2	1:Z:238[B]:ARG:HG3	1.80	0.64
1:Z:518:ASN:HB3	1:Z:519:PRO:HD3	1.80	0.64
1:g:235:MET:HB2	1:g:238[B]:ARG:HG3	1.80	0.64
1:i:345:ASP:OD1	1:i:346:SER:N	2.31	0.64
1:i:518:ASN:HB3	1:i:519:PRO:HD3	1.80	0.64
1:l:451:PRO:HA	1:l:456:THR:HA	1.79	0.64
1:q:297:GLN:HA	1:q:300:ILE:HG22	1.79	0.64
1:u:252:TYR:OH	1:u:372:VAL:O	2.14	0.64
1:z:235:MET:HB2	1:z:238[B]:ARG:HG3	1.80	0.64
1:z:238[A]:ARG:NH1	1:z:683:GLU:OE2	2.30	0.64
1:1:235:MET:HB2	1:1:238[B]:ARG:HG3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:518:ASN:HB3	1:1:519:PRO:HD3	1.80	0.64
1:2:238[A]:ARG:NH1	1:2:683:GLU:OE2	2.30	0.64
1:4:238[A]:ARG:NH1	1:4:683:GLU:OE2	2.30	0.64
1:7:235:MET:HB2	1:7:238[B]:ARG:HG3	1.80	0.64
1:F:508:TYR:HD2	1:F:517:VAL:HG22	1.63	0.63
1:G:483:TYR:H	1:G:523:MET:CE	2.11	0.63
1:I:252:TYR:OH	1:I:372:VAL:O	2.14	0.63
1:K:235:MET:HB2	1:K:238[B]:ARG:HG3	1.80	0.63
1:O:297:GLN:HA	1:O:300:ILE:HG22	1.79	0.63
1:P:621:ILE:HG12	1:P:630:PRO:HB3	1.79	0.63
1:U:518:ASN:HB3	1:U:519:PRO:HD3	1.81	0.63
1:V:621:ILE:HG12	1:V:630:PRO:HB3	1.79	0.63
1:W:297:GLN:HA	1:W:300:ILE:HG22	1.79	0.63
1:Z:451:PRO:HA	1:Z:456:THR:HA	1.79	0.63
1:a:235:MET:HB2	1:a:238[B]:ARG:HG3	1.80	0.63
1:a:508:TYR:HD2	1:a:517:VAL:HG22	1.62	0.63
1:c:459:ARG:NH2	1:o:553:ASP:OD2	2.30	0.63
1:g:508:TYR:HD2	1:g:517:VAL:HG22	1.63	0.63
1:h:235:MET:HB2	1:h:238[B]:ARG:HG3	1.80	0.63
1:m:621:ILE:HG12	1:m:630:PRO:HB3	1.79	0.63
1:o:518:ASN:HB3	1:o:519:PRO:HD3	1.80	0.63
1:t:297:GLN:HA	1:t:300:ILE:HG22	1.79	0.63
1:u:235:MET:HB2	1:u:238[B]:ARG:HG3	1.80	0.63
1:w:518:ASN:HB3	1:w:519:PRO:HD3	1.80	0.63
1:y:483:TYR:H	1:y:523:MET:CE	2.11	0.63
1:4:235:MET:HB2	1:4:238[B]:ARG:HG3	1.79	0.63
1:5:235:MET:HB2	1:5:238[B]:ARG:HG3	1.80	0.63
1:A:235:MET:HB2	1:A:238[B]:ARG:HG3	1.80	0.63
1:A:518:ASN:HB3	1:A:519:PRO:HD3	1.80	0.63
1:C:621:ILE:HG12	1:C:630:PRO:HB3	1.79	0.63
1:G:601:LEU:N	1:G:604:MET:SD	2.69	0.63
1:I:518:ASN:HB3	1:I:519:PRO:HD3	1.80	0.63
1:L:345:ASP:OD1	1:L:346:SER:N	2.31	0.63
1:V:483:TYR:H	1:V:523:MET:CE	2.11	0.63
1:Y:235:MET:HB2	1:Y:238[B]:ARG:HG3	1.80	0.63
1:o:508:TYR:HD2	1:o:517:VAL:HG22	1.62	0.63
1:q:508:TYR:HD2	1:q:517:VAL:HG22	1.63	0.63
1:w:451:PRO:HA	1:w:456:THR:HA	1.80	0.63
1:2:235:MET:HB2	1:2:238[B]:ARG:HG3	1.79	0.63
1:2:451:PRO:HA	1:2:456:THR:HA	1.79	0.63
1:4:451:PRO:HA	1:4:456:THR:HA	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:508:TYR:HD2	1:7:517:VAL:HG22	1.62	0.63
1:8:518:ASN:HB3	1:8:519:PRO:HD3	1.80	0.63
1:B:518:ASN:HB3	1:B:519:PRO:HD3	1.80	0.63
1:K:297:GLN:HA	1:K:300:ILE:HG22	1.79	0.63
1:c:345:ASP:OD1	1:c:346:SER:N	2.31	0.63
1:f:518:ASN:HB3	1:f:519:PRO:HD3	1.80	0.63
1:j:518:ASN:HB3	1:j:519:PRO:HD3	1.80	0.63
1:q:518:ASN:HB3	1:q:519:PRO:HD3	1.80	0.63
1:s:483:TYR:H	1:s:523:MET:CE	2.11	0.63
1:x:235:MET:HB2	1:x:238[B]:ARG:HG3	1.80	0.63
1:x:518:ASN:HB3	1:x:519:PRO:HD3	1.80	0.63
1:y:601:LEU:N	1:y:604:MET:SD	2.69	0.63
1:z:345:ASP:OD1	1:z:346:SER:N	2.31	0.63
1:3:345:ASP:OD1	1:3:346:SER:N	2.31	0.63
1:B:235:MET:HB2	1:B:238[B]:ARG:HG3	1.80	0.63
1:M:518:ASN:HB3	1:M:519:PRO:HD3	1.80	0.63
1:Q:483:TYR:H	1:Q:523:MET:CE	2.11	0.63
1:Q:621:ILE:HG12	1:Q:630:PRO:HB3	1.79	0.63
1:S:345:ASP:OD1	1:S:346:SER:N	2.31	0.63
1:d:252:TYR:OH	1:d:372:VAL:O	2.14	0.63
1:d:518:ASN:HB3	1:d:519:PRO:HD3	1.80	0.63
1:e:508:TYR:HD2	1:e:517:VAL:HG22	1.62	0.63
1:l:621:ILE:HG12	1:l:630:PRO:HB3	1.79	0.63
1:s:621:ILE:HG12	1:s:630:PRO:HB3	1.79	0.63
1:t:451:PRO:HA	1:t:456:THR:HA	1.79	0.63
1:u:345:ASP:OD1	1:u:346:SER:N	2.31	0.63
1:w:345:ASP:OD1	1:w:346:SER:N	2.30	0.63
1:x:508:TYR:HD2	1:x:517:VAL:HG22	1.63	0.63
1:A:451:PRO:HA	1:A:456:THR:HA	1.79	0.63
1:A:508:TYR:HD2	1:A:517:VAL:HG22	1.62	0.63
1:C:252:TYR:OH	1:C:372:VAL:O	2.14	0.63
1:C:345:ASP:OD1	1:C:346:SER:N	2.31	0.63
1:D:451:PRO:HA	1:D:456:THR:HA	1.79	0.63
1:N:483:TYR:H	1:N:523:MET:CE	2.11	0.63
1:R:451:PRO:HA	1:R:456:THR:HA	1.79	0.63
1:R:518:ASN:HB3	1:R:519:PRO:HD3	1.80	0.63
1:S:508:TYR:HD2	1:S:517:VAL:HG22	1.62	0.63
1:T:621:ILE:HG12	1:T:630:PRO:HB3	1.79	0.63
1:V:451:PRO:HA	1:V:456:THR:HA	1.79	0.63
1:X:297:GLN:HA	1:X:300:ILE:HG22	1.79	0.63
1:Y:345:ASP:OD1	1:Y:346:SER:N	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:518:ASN:HB3	1:Y:519:PRO:HD3	1.81	0.63
1:g:483:TYR:H	1:g:523:MET:CE	2.11	0.63
1:h:297:GLN:HA	1:h:300:ILE:HG22	1.79	0.63
1:j:235:MET:HB2	1:j:238[B]:ARG:HG3	1.79	0.63
1:p:451:PRO:HA	1:p:456:THR:HA	1.79	0.63
1:p:518:ASN:HB3	1:p:519:PRO:HD3	1.80	0.63
1:q:451:PRO:HA	1:q:456:THR:HA	1.79	0.63
1:u:518:ASN:HB3	1:u:519:PRO:HD3	1.80	0.63
1:v:252:TYR:OH	1:v:372:VAL:O	2.14	0.63
1:6:483:TYR:H	1:6:523:MET:CE	2.11	0.63
1:B:508:TYR:HD2	1:B:517:VAL:HG22	1.62	0.63
1:F:451:PRO:HA	1:F:456:THR:HA	1.79	0.63
1:J:451:PRO:HA	1:J:456:THR:HA	1.79	0.63
1:U:508:TYR:HD2	1:U:517:VAL:HG22	1.63	0.63
1:W:235:MET:HB2	1:W:238[B]:ARG:HG3	1.80	0.63
1:Y:451:PRO:HA	1:Y:456:THR:HA	1.80	0.63
1:a:483:TYR:H	1:a:523:MET:CE	2.11	0.63
1:b:621:ILE:HG12	1:b:630:PRO:HB3	1.79	0.63
1:l:508:TYR:HD2	1:l:517:VAL:HG22	1.63	0.63
1:n:451:PRO:HA	1:n:456:THR:HA	1.79	0.63
1:n:518:ASN:HB3	1:n:519:PRO:HD3	1.80	0.63
1:t:235:MET:HB2	1:t:238[B]:ARG:HG3	1.80	0.63
1:u:451:PRO:HA	1:u:456:THR:HA	1.79	0.63
1:u:621:ILE:HG12	1:u:630:PRO:HB3	1.79	0.63
1:w:413:TYR:OH	1:w:641:HIS:O	2.17	0.63
1:7:252:TYR:OH	1:7:372:VAL:O	2.14	0.63
1:F:518:ASN:HB3	1:F:519:PRO:HD3	1.80	0.63
1:I:345:ASP:OD1	1:I:346:SER:N	2.31	0.63
1:I:413:TYR:OH	1:I:641:HIS:O	2.17	0.63
1:M:252:TYR:OH	1:M:372:VAL:O	2.14	0.63
1:O:483:TYR:H	1:O:523:MET:CE	2.11	0.63
1:P:297:GLN:HA	1:P:300:ILE:HG22	1.79	0.63
1:R:345:ASP:OD1	1:R:346:SER:N	2.31	0.63
1:W:451:PRO:HA	1:W:456:THR:HA	1.79	0.63
1:a:447:ARG:HD2	1:a:461:GLN:OE1	1.99	0.63
1:d:456:THR:O	1:l:497:ASN:ND2	2.31	0.63
1:g:297:GLN:HA	1:g:300:ILE:HG22	1.79	0.63
1:g:447:ARG:HD2	1:g:461:GLN:OE1	1.99	0.63
1:j:508:TYR:HD2	1:j:517:VAL:HG22	1.62	0.63
1:n:447:ARG:HD2	1:n:461:GLN:OE1	1.99	0.63
1:C:508:TYR:HD2	1:C:517:VAL:HG22	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:518:ASN:HB3	1:D:519:PRO:HD3	1.81	0.63
1:I:601:LEU:N	1:I:604:MET:SD	2.69	0.63
1:J:508:TYR:HD2	1:J:517:VAL:HG22	1.62	0.63
1:K:447:ARG:HD2	1:K:461:GLN:OE1	1.99	0.63
1:S:235:MET:HB2	1:S:238[B]:ARG:HG3	1.80	0.63
1:S:413:TYR:OH	1:S:641:HIS:O	2.17	0.63
1:S:447:ARG:HD2	1:S:461:GLN:OE1	1.99	0.63
1:S:459:ARG:NH2	1:U:553:ASP:OD2	2.30	0.63
1:T:601:LEU:N	1:T:604:MET:SD	2.69	0.63
1:Y:621:ILE:HG12	1:Y:630:PRO:HB3	1.79	0.63
1:a:297:GLN:HA	1:a:300:ILE:HG22	1.79	0.63
1:c:235:MET:HB2	1:c:238[B]:ARG:HG3	1.80	0.63
1:c:508:TYR:HD2	1:c:517:VAL:HG22	1.63	0.63
1:h:447:ARG:HD2	1:h:461:GLN:OE1	1.99	0.63
1:k:451:PRO:HA	1:k:456:THR:HA	1.79	0.63
1:k:508:TYR:HD2	1:k:517:VAL:HG22	1.62	0.63
1:l:345:ASP:OD1	1:l:346:SER:N	2.31	0.63
1:p:345:ASP:OD1	1:p:346:SER:N	2.31	0.63
1:x:451:PRO:HA	1:x:456:THR:HA	1.79	0.63
1:z:483:TYR:H	1:z:523:MET:CE	2.11	0.63
1:z:518:ASN:HB3	1:z:519:PRO:HD3	1.80	0.63
1:3:483:TYR:H	1:3:523:MET:CE	2.11	0.63
1:3:518:ASN:HB3	1:3:519:PRO:HD3	1.80	0.63
1:5:252:TYR:OH	1:5:372:VAL:O	2.14	0.63
1:5:297:GLN:HA	1:5:300:ILE:HG22	1.79	0.63
1:A:447:ARG:HD2	1:A:461:GLN:OE1	1.99	0.63
1:C:447:ARG:HD2	1:C:461:GLN:OE1	1.99	0.63
1:D:447:ARG:HD2	1:D:461:GLN:OE1	1.99	0.63
1:F:413:TYR:OH	1:F:641:HIS:O	2.17	0.63
1:G:235:MET:HB2	1:G:238[B]:ARG:HG3	1.80	0.63
1:H:252:TYR:OH	1:H:372:VAL:O	2.14	0.63
1:O:253:ASN:OD1	1:O:374:GLN:NE2	2.32	0.63
1:Q:413:TYR:OH	1:Q:641:HIS:O	2.17	0.63
1:T:235:MET:HB2	1:T:238[B]:ARG:HG3	1.79	0.63
1:V:253:ASN:OD1	1:V:374:GLN:NE2	2.32	0.63
1:c:413:TYR:OH	1:c:641:HIS:O	2.17	0.63
1:c:447:ARG:HD2	1:c:461:GLN:OE1	1.99	0.63
1:e:252:TYR:OH	1:e:372:VAL:O	2.14	0.63
1:f:235:MET:HB2	1:f:238[B]:ARG:HG3	1.79	0.63
1:f:483:TYR:H	1:f:523:MET:CE	2.11	0.63
1:j:447:ARG:HD2	1:j:461:GLN:OE1	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:447:ARG:HD2	1:k:461:GLN:OE1	1.99	0.63
1:l:447:ARG:HD2	1:l:461:GLN:OE1	1.99	0.63
1:m:297:GLN:HA	1:m:300:ILE:HG22	1.79	0.63
1:m:483:TYR:H	1:m:523:MET:CE	2.11	0.63
1:s:413:TYR:OH	1:s:641:HIS:O	2.17	0.63
1:x:447:ARG:HD2	1:x:461:GLN:OE1	1.99	0.63
1:6:451:PRO:HA	1:6:456:THR:HA	1.79	0.63
1:7:518:ASN:HB3	1:7:519:PRO:HD3	1.80	0.63
1:8:483:TYR:H	1:8:523:MET:CE	2.11	0.63
1:B:447:ARG:HD2	1:B:461:GLN:OE1	1.99	0.62
1:D:253:ASN:OD1	1:D:374:GLN:NE2	2.32	0.62
1:G:518:ASN:HB3	1:G:519:PRO:HD3	1.80	0.62
1:H:413:TYR:OH	1:H:641:HIS:O	2.17	0.62
1:J:447:ARG:HD2	1:J:461:GLN:OE1	1.99	0.62
1:P:483:TYR:H	1:P:523:MET:CE	2.11	0.62
1:X:252:TYR:OH	1:X:372:VAL:O	2.14	0.62
1:e:451:PRO:HA	1:e:456:THR:HA	1.79	0.62
1:e:518:ASN:HB3	1:e:519:PRO:HD3	1.80	0.62
1:h:483:TYR:H	1:h:523:MET:CE	2.11	0.62
1:i:601:LEU:N	1:i:604:MET:SD	2.69	0.62
1:q:413:TYR:OH	1:q:641:HIS:O	2.17	0.62
1:v:297:GLN:HA	1:v:300:ILE:HG22	1.79	0.62
1:v:413:TYR:OH	1:v:641:HIS:O	2.17	0.62
1:w:601:LEU:N	1:w:604:MET:SD	2.69	0.62
1:y:235:MET:HB2	1:y:238[B]:ARG:HG3	1.80	0.62
1:2:253:ASN:OD1	1:2:374:GLN:NE2	2.32	0.62
1:6:253:ASN:OD1	1:6:374:GLN:NE2	2.32	0.62
1:7:413:TYR:OH	1:7:641:HIS:O	2.17	0.62
1:H:297:GLN:HA	1:H:300:ILE:HG22	1.79	0.62
1:J:253:ASN:OD1	1:J:374:GLN:NE2	2.32	0.62
1:L:253:ASN:OD1	1:L:374:GLN:NE2	2.32	0.62
1:L:447:ARG:HD2	1:L:461:GLN:OE1	1.99	0.62
1:L:601:LEU:N	1:L:604:MET:SD	2.69	0.62
1:M:345:ASP:OD1	1:M:346:SER:N	2.31	0.62
1:N:253:ASN:OD1	1:N:374:GLN:NE2	2.32	0.62
1:V:345:ASP:OD1	1:V:346:SER:N	2.31	0.62
1:V:518:ASN:HB3	1:V:519:PRO:HD3	1.80	0.62
1:X:447:ARG:HD2	1:X:461:GLN:OE1	1.99	0.62
1:Z:447:ARG:HD2	1:Z:461:GLN:OE1	1.99	0.62
1:d:345:ASP:OD1	1:d:346:SER:N	2.31	0.62
1:d:483:TYR:H	1:d:523:MET:CE	2.11	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:413:TYR:OH	1:e:641:HIS:O	2.17	0.62
1:i:483:TYR:H	1:i:523:MET:CE	2.11	0.62
1:n:253:ASN:OD1	1:n:374:GLN:NE2	2.32	0.62
1:q:252:TYR:OH	1:q:372:VAL:O	2.14	0.62
1:r:252:TYR:OH	1:r:372:VAL:O	2.14	0.62
1:r:447:ARG:HD2	1:r:461:GLN:OE1	1.99	0.62
1:y:518:ASN:HB3	1:y:519:PRO:HD3	1.81	0.62
1:z:253:ASN:OD1	1:z:374:GLN:NE2	2.32	0.62
1:3:253:ASN:OD1	1:3:374:GLN:NE2	2.32	0.62
1:4:253:ASN:OD1	1:4:374:GLN:NE2	2.32	0.62
1:6:235:MET:HB2	1:6:238[B]:ARG:HG3	1.79	0.62
1:6:518:ASN:HB3	1:6:519:PRO:HD3	1.80	0.62
1:8:235:MET:HB2	1:8:238[B]:ARG:HG3	1.80	0.62
1:E:447:ARG:HD2	1:E:461:GLN:OE1	1.99	0.62
1:F:252:TYR:OH	1:F:372:VAL:O	2.14	0.62
1:K:483:TYR:H	1:K:523:MET:CE	2.11	0.62
1:N:413:TYR:OH	1:N:641:HIS:O	2.17	0.62
1:R:297:GLN:HA	1:R:300:ILE:HG22	1.79	0.62
1:T:447:ARG:HD2	1:T:461:GLN:OE1	1.99	0.62
1:U:253:ASN:OD1	1:U:374:GLN:NE2	2.32	0.62
1:Y:413:TYR:OH	1:Y:641:HIS:O	2.17	0.62
1:b:447:ARG:HD2	1:b:461:GLN:OE1	1.99	0.62
1:d:508:TYR:HD2	1:d:517:VAL:HG22	1.63	0.62
1:f:253:ASN:OD1	1:f:374:GLN:NE2	2.32	0.62
1:i:253:ASN:OD1	1:i:374:GLN:NE2	2.32	0.62
1:i:447:ARG:HD2	1:i:461:GLN:OE1	1.99	0.62
1:k:253:ASN:OD1	1:k:374:GLN:NE2	2.32	0.62
1:o:253:ASN:OD1	1:o:374:GLN:NE2	2.32	0.62
1:p:297:GLN:HA	1:p:300:ILE:HG22	1.79	0.62
1:x:253:ASN:OD1	1:x:374:GLN:NE2	2.32	0.62
1:4:518:ASN:HB3	1:4:519:PRO:HD3	1.80	0.62
1:7:451:PRO:HA	1:7:456:THR:HA	1.79	0.62
1:8:253:ASN:OD1	1:8:374:GLN:NE2	2.32	0.62
1:A:253:ASN:OD1	1:A:374:GLN:NE2	2.32	0.62
1:G:253:ASN:OD1	1:G:374:GLN:NE2	2.32	0.62
1:L:483:TYR:H	1:L:523:MET:CE	2.11	0.62
1:O:413:TYR:OH	1:O:641:HIS:O	2.17	0.62
1:V:235:MET:HB2	1:V:238[B]:ARG:HG3	1.79	0.62
1:X:253:ASN:OD1	1:X:374:GLN:NE2	2.32	0.62
1:X:451:PRO:HA	1:X:456:THR:HA	1.79	0.62
1:c:252:TYR:OH	1:c:372:VAL:O	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:253:ASN:OD1	1:d:374:GLN:NE2	2.32	0.62
1:m:447:ARG:HD2	1:m:461:GLN:OE1	1.99	0.62
1:q:601:LEU:N	1:q:604:MET:SD	2.69	0.62
1:s:508:TYR:HD2	1:s:517:VAL:HG22	1.62	0.62
1:u:413:TYR:OH	1:u:641:HIS:O	2.17	0.62
1:y:253:ASN:OD1	1:y:374:GLN:NE2	2.32	0.62
1:5:447:ARG:HD2	1:5:461:GLN:OE1	1.99	0.62
1:6:345:ASP:OD1	1:6:346:SER:N	2.31	0.62
1:C:253:ASN:OD1	1:C:374:GLN:NE2	2.32	0.62
1:M:253:ASN:OD1	1:M:374:GLN:NE2	2.32	0.62
1:M:483:TYR:H	1:M:523:MET:CE	2.11	0.62
1:M:508:TYR:HD2	1:M:517:VAL:HG22	1.63	0.62
1:P:447:ARG:HD2	1:P:461:GLN:OE1	1.99	0.62
1:U:413:TYR:OH	1:U:641:HIS:O	2.17	0.62
1:V:447:ARG:HD2	1:V:461:GLN:OE1	1.99	0.62
1:W:253:ASN:OD1	1:W:374:GLN:NE2	2.32	0.62
1:d:447:ARG:HD2	1:d:461:GLN:OE1	1.99	0.62
1:f:447:ARG:HD2	1:f:461:GLN:OE1	1.99	0.62
1:k:483:TYR:H	1:k:523:MET:CE	2.11	0.62
1:l:253:ASN:OD1	1:l:374:GLN:NE2	2.32	0.62
1:m:235:MET:HB2	1:m:238[B]:ARG:HG3	1.80	0.62
1:m:252:TYR:OH	1:m:372:VAL:O	2.14	0.62
1:o:413:TYR:OH	1:o:641:HIS:O	2.17	0.62
1:p:252:TYR:OH	1:p:372:VAL:O	2.14	0.62
1:t:253:ASN:OD1	1:t:374:GLN:NE2	2.32	0.62
1:t:413:TYR:OH	1:t:641:HIS:O	2.17	0.62
1:1:447:ARG:HD2	1:1:461:GLN:OE1	1.99	0.62
1:5:253:ASN:OD1	1:5:374:GLN:NE2	2.32	0.62
1:6:447:ARG:HD2	1:6:461:GLN:OE1	1.99	0.62
1:C:518:ASN:HB3	1:C:519:PRO:HD3	1.80	0.62
1:D:483:TYR:H	1:D:523:MET:CE	2.11	0.62
1:E:253:ASN:OD1	1:E:374:GLN:NE2	2.32	0.62
1:E:413:TYR:OH	1:E:641:HIS:O	2.17	0.62
1:F:601:LEU:N	1:F:604:MET:SD	2.69	0.62
1:I:253:ASN:OD1	1:I:374:GLN:NE2	2.32	0.62
1:J:483:TYR:H	1:J:523:MET:CE	2.11	0.62
1:L:235:MET:HB2	1:L:238[B]:ARG:HG3	1.79	0.62
1:M:447:ARG:HD2	1:M:461:GLN:OE1	1.99	0.62
1:Q:508:TYR:HD2	1:Q:517:VAL:HG22	1.62	0.62
1:R:252:TYR:OH	1:R:372:VAL:O	2.14	0.62
1:S:252:TYR:OH	1:S:372:VAL:O	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:413:TYR:OH	1:W:641:HIS:O	2.17	0.62
1:b:235:MET:HB2	1:b:238[B]:ARG:HG3	1.80	0.62
1:f:601:LEU:N	1:f:604:MET:SD	2.69	0.62
1:n:483:TYR:H	1:n:523:MET:CE	2.11	0.62
1:r:253:ASN:OD1	1:r:374:GLN:NE2	2.32	0.62
1:w:253:ASN:OD1	1:w:374:GLN:NE2	2.32	0.62
1:z:553:ASP:OD2	1:2:459:ARG:NH2	2.31	0.62
1:2:353:VAL:H	1:2:645:GLN:NE2	1.98	0.62
1:2:447:ARG:HD2	1:2:461:GLN:OE1	1.99	0.62
1:2:518:ASN:HB3	1:2:519:PRO:HD3	1.80	0.62
1:5:451:PRO:HA	1:5:456:THR:HA	1.79	0.62
1:7:447:ARG:HD2	1:7:461:GLN:OE1	1.99	0.62
1:8:447:ARG:HD2	1:8:461:GLN:OE1	1.99	0.62
1:E:353:VAL:H	1:E:645:GLN:NE2	1.98	0.62
1:E:601:LEU:N	1:E:604:MET:SD	2.69	0.62
1:J:353:VAL:H	1:J:645:GLN:NE2	1.98	0.62
1:J:518:ASN:HB3	1:J:519:PRO:HD3	1.80	0.62
1:N:353:VAL:H	1:N:645:GLN:NE2	1.98	0.62
1:N:518:ASN:HB3	1:N:519:PRO:HD3	1.80	0.62
1:P:235:MET:HB2	1:P:238[B]:ARG:HG3	1.80	0.62
1:W:447:ARG:HD2	1:W:461:GLN:OE1	1.99	0.62
1:W:518:ASN:HB3	1:W:519:PRO:HD3	1.80	0.62
1:Z:253:ASN:OD1	1:Z:374:GLN:NE2	2.32	0.62
1:b:253:ASN:OD1	1:b:374:GLN:NE2	2.32	0.62
1:g:253:ASN:OD1	1:g:374:GLN:NE2	2.32	0.62
1:l:518:ASN:HB3	1:l:519:PRO:HD3	1.80	0.62
1:n:601:LEU:N	1:n:604:MET:SD	2.69	0.62
1:o:235:MET:HB2	1:o:238[B]:ARG:HG3	1.79	0.62
1:p:353:VAL:H	1:p:645:GLN:NE2	1.98	0.62
1:r:413:TYR:OH	1:r:641:HIS:O	2.17	0.62
1:r:601:LEU:N	1:r:604:MET:SD	2.69	0.62
1:1:253:ASN:OD1	1:1:374:GLN:NE2	2.32	0.62
1:6:456:THR:O	1:7:497:ASN:ND2	2.30	0.62
1:6:459:ARG:NH2	1:7:553:ASP:OD2	2.31	0.62
1:7:253:ASN:OD1	1:7:374:GLN:NE2	2.32	0.62
1:8:601:LEU:N	1:8:604:MET:SD	2.69	0.62
1:D:508:TYR:HD2	1:D:517:VAL:HG22	1.63	0.62
1:D:601:LEU:N	1:D:604:MET:SD	2.69	0.62
1:K:353:VAL:H	1:K:645:GLN:NE2	1.98	0.62
1:O:353:VAL:H	1:O:645:GLN:NE2	1.98	0.62
1:P:252:TYR:OH	1:P:372:VAL:O	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:518:ASN:HB3	1:Q:519:PRO:HD3	1.80	0.62
1:R:253:ASN:OD1	1:R:374:GLN:NE2	2.32	0.62
1:R:447:ARG:HD2	1:R:461:GLN:OE1	1.99	0.62
1:T:353:VAL:H	1:T:645:GLN:NE2	1.98	0.62
1:Y:447:ARG:HD2	1:Y:461:GLN:OE1	1.99	0.62
1:a:253:ASN:OD1	1:a:374:GLN:NE2	2.32	0.62
1:e:253:ASN:OD1	1:e:374:GLN:NE2	2.32	0.62
1:e:447:ARG:HD2	1:e:461:GLN:OE1	1.99	0.62
1:h:353:VAL:H	1:h:645:GLN:NE2	1.98	0.62
1:i:235:MET:HB2	1:i:238[B]:ARG:HG3	1.79	0.62
1:k:353:VAL:H	1:k:645:GLN:NE2	1.98	0.62
1:t:447:ARG:HD2	1:t:461:GLN:OE1	1.99	0.62
1:u:253:ASN:OD1	1:u:374:GLN:NE2	2.32	0.62
1:w:483:TYR:H	1:w:523:MET:CE	2.11	0.62
1:3:413:TYR:OH	1:3:641:HIS:O	2.17	0.62
1:4:353:VAL:H	1:4:645:GLN:NE2	1.98	0.62
1:4:447:ARG:HD2	1:4:461:GLN:OE1	1.99	0.62
1:H:447:ARG:HD2	1:H:461:GLN:OE1	1.99	0.62
1:N:447:ARG:HD2	1:N:461:GLN:OE1	1.99	0.62
1:R:353:VAL:H	1:R:645:GLN:NE2	1.98	0.62
1:U:235:MET:HB2	1:U:238[B]:ARG:HG3	1.80	0.62
1:Y:253:ASN:OD1	1:Y:374:GLN:NE2	2.32	0.62
1:Z:252:TYR:OH	1:Z:372:VAL:O	2.14	0.62
1:b:353:VAL:H	1:b:645:GLN:NE2	1.98	0.62
1:n:508:TYR:HD2	1:n:517:VAL:HG22	1.63	0.62
1:p:447:ARG:HD2	1:p:461:GLN:OE1	1.99	0.62
1:r:353:VAL:H	1:r:645:GLN:NE2	1.98	0.62
1:s:518:ASN:HB3	1:s:519:PRO:HD3	1.80	0.62
1:t:518:ASN:HB3	1:t:519:PRO:HD3	1.80	0.62
1:u:447:ARG:HD2	1:u:461:GLN:OE1	1.99	0.62
1:y:345:ASP:OD1	1:y:346:SER:N	2.31	0.62
1:1:413:TYR:OH	1:1:641:HIS:O	2.17	0.62
1:6:413:TYR:OH	1:6:641:HIS:O	2.17	0.62
1:7:353:VAL:H	1:7:645:GLN:NE2	1.98	0.62
1:H:518:ASN:HB3	1:H:519:PRO:HD3	1.80	0.62
1:O:447:ARG:HD2	1:O:461:GLN:OE1	1.99	0.62
1:O:518:ASN:HB3	1:O:519:PRO:HD3	1.80	0.62
1:S:353:VAL:H	1:S:645:GLN:NE2	1.98	0.62
1:S:483:TYR:H	1:S:523:MET:CE	2.11	0.62
1:T:252:TYR:OH	1:T:372:VAL:O	2.14	0.62
1:T:253:ASN:OD1	1:T:374:GLN:NE2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:413:TYR:OH	1:V:641:HIS:O	2.17	0.62
1:d:353:VAL:H	1:d:645:GLN:NE2	1.98	0.62
1:g:518:ASN:HB3	1:g:519:PRO:HD3	1.80	0.62
1:h:413:TYR:OH	1:h:641:HIS:O	2.17	0.62
1:k:518:ASN:HB3	1:k:519:PRO:HD3	1.80	0.62
1:p:253:ASN:OD1	1:p:374:GLN:NE2	2.32	0.62
1:q:345:ASP:OD1	1:q:346:SER:N	2.31	0.62
1:z:413:TYR:OH	1:z:641:HIS:O	2.17	0.62
1:B:459:ARG:NH2	1:J:553:ASP:OD2	2.30	0.61
1:F:253:ASN:OD1	1:F:374:GLN:NE2	2.32	0.61
1:F:345:ASP:OD1	1:F:346:SER:N	2.31	0.61
1:I:483:TYR:H	1:I:523:MET:CE	2.11	0.61
1:K:253:ASN:OD1	1:K:374:GLN:NE2	2.32	0.61
1:K:413:TYR:OH	1:K:641:HIS:O	2.17	0.61
1:T:413:TYR:OH	1:T:641:HIS:O	2.17	0.61
1:V:459:ARG:NH2	1:e:553:ASP:OD2	2.31	0.61
1:W:345:ASP:OD1	1:W:346:SER:N	2.31	0.61
1:Z:413:TYR:OH	1:Z:641:HIS:O	2.17	0.61
1:a:518:ASN:HB3	1:a:519:PRO:HD3	1.80	0.61
1:c:353:VAL:H	1:c:645:GLN:NE2	1.98	0.61
1:c:483:TYR:H	1:c:523:MET:CE	2.11	0.61
1:e:353:VAL:H	1:e:645:GLN:NE2	1.98	0.61
1:q:253:ASN:OD1	1:q:374:GLN:NE2	2.32	0.61
1:q:447:ARG:HD2	1:q:461:GLN:OE1	1.99	0.61
1:v:447:ARG:HD2	1:v:461:GLN:OE1	1.99	0.61
1:x:483:TYR:H	1:x:523:MET:CE	2.11	0.61
1:1:252:TYR:OH	1:1:372:VAL:O	2.14	0.61
1:A:483:TYR:H	1:A:523:MET:CE	2.11	0.61
1:F:447:ARG:HD2	1:F:461:GLN:OE1	1.99	0.61
1:G:345:ASP:OD1	1:G:346:SER:N	2.31	0.61
1:H:483:TYR:H	1:H:523:MET:CE	2.11	0.61
1:M:353:VAL:H	1:M:645:GLN:NE2	1.98	0.61
1:W:252:TYR:OH	1:W:372:VAL:O	2.14	0.61
1:d:413:TYR:OH	1:d:641:HIS:O	2.17	0.61
1:h:253:ASN:OD1	1:h:374:GLN:NE2	2.32	0.61
1:i:353:VAL:H	1:i:645:GLN:NE2	1.98	0.61
1:j:459:ARG:NH2	1:k:553:ASP:OD2	2.30	0.61
1:t:459:ARG:NH2	1:u:553:ASP:OD2	2.30	0.61
1:v:483:TYR:H	1:v:523:MET:CE	2.11	0.61
1:v:518:ASN:HB3	1:v:519:PRO:HD3	1.81	0.61
1:I:353:VAL:H	1:I:645:GLN:NE2	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:353:VAL:H	1:L:645:GLN:NE2	1.98	0.61
1:U:447:ARG:HD2	1:U:461:GLN:OE1	1.99	0.61
1:b:252:TYR:OH	1:b:372:VAL:O	2.14	0.61
1:b:413:TYR:OH	1:b:641:HIS:O	2.17	0.61
1:c:518:ASN:HB3	1:c:519:PRO:HD3	1.80	0.61
1:o:447:ARG:HD2	1:o:461:GLN:OE1	1.99	0.61
1:r:518:ASN:HB3	1:r:519:PRO:HD3	1.80	0.61
1:t:345:ASP:OD1	1:t:346:SER:N	2.31	0.61
1:w:353:VAL:H	1:w:645:GLN:NE2	1.98	0.61
1:w:447:ARG:HD2	1:w:461:GLN:OE1	1.99	0.61
1:7:345:ASP:OD1	1:7:346:SER:N	2.31	0.61
1:I:447:ARG:HD2	1:I:461:GLN:OE1	1.99	0.61
1:M:413:TYR:OH	1:M:641:HIS:O	2.17	0.61
1:S:518:ASN:HB3	1:S:519:PRO:HD3	1.80	0.61
1:c:601:LEU:N	1:c:604:MET:SD	2.69	0.61
1:s:353:VAL:H	1:s:645:GLN:NE2	1.98	0.61
1:t:252:TYR:OH	1:t:372:VAL:O	2.14	0.61
1:3:447:ARG:HD2	1:3:461:GLN:OE1	1.99	0.61
1:E:459:ARG:NH2	1:Q:553:ASP:OD2	2.31	0.61
1:H:253:ASN:OD1	1:H:374:GLN:NE2	2.32	0.61
1:Q:253:ASN:OD1	1:Q:374:GLN:NE2	2.32	0.61
1:Q:447:ARG:HD2	1:Q:461:GLN:OE1	1.99	0.61
1:S:601:LEU:N	1:S:604:MET:SD	2.69	0.61
1:e:345:ASP:OD1	1:e:346:SER:N	2.31	0.61
1:h:518:ASN:HB3	1:h:519:PRO:HD3	1.81	0.61
1:q:353:VAL:H	1:q:645:GLN:NE2	1.98	0.61
1:v:253:ASN:OD1	1:v:374:GLN:NE2	2.32	0.61
1:A:601:LEU:N	1:A:604:MET:SD	2.69	0.61
1:G:413:TYR:OH	1:G:641:HIS:O	2.17	0.61
1:K:518:ASN:HB3	1:K:519:PRO:HD3	1.80	0.61
1:Q:353:VAL:H	1:Q:645:GLN:NE2	1.98	0.61
1:S:253:ASN:OD1	1:S:374:GLN:NE2	2.32	0.61
1:X:518:ASN:HB3	1:X:519:PRO:HD3	1.80	0.61
1:a:353:VAL:H	1:a:645:GLN:NE2	1.98	0.61
1:k:252:TYR:OH	1:k:372:VAL:O	2.14	0.61
1:k:345:ASP:OD1	1:k:346:SER:N	2.31	0.61
1:r:456:THR:O	1:s:497:ASN:ND2	2.30	0.61
1:s:253:ASN:OD1	1:s:374:GLN:NE2	2.32	0.61
1:y:413:TYR:OH	1:y:641:HIS:O	2.17	0.61
1:z:447:ARG:HD2	1:z:461:GLN:OE1	1.99	0.61
1:C:413:TYR:OH	1:C:641:HIS:O	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:353:VAL:H	1:F:645:GLN:NE2	1.98	0.61
1:P:253:ASN:OD1	1:P:374:GLN:NE2	2.32	0.61
1:T:483:TYR:H	1:T:523:MET:CE	2.11	0.61
1:X:353:VAL:H	1:X:645:GLN:NE2	1.98	0.61
1:Z:601:LEU:N	1:Z:604:MET:SD	2.69	0.61
1:b:483:TYR:H	1:b:523:MET:CE	2.11	0.61
1:g:353:VAL:H	1:g:645:GLN:NE2	1.98	0.61
1:l:353:VAL:H	1:l:645:GLN:NE2	1.98	0.61
1:l:413:TYR:OH	1:l:641:HIS:O	2.17	0.61
1:r:459:ARG:NH2	1:s:553:ASP:OD2	2.31	0.61
1:s:447:ARG:HD2	1:s:461:GLN:OE1	1.99	0.61
1:t:353:VAL:H	1:t:645:GLN:NE2	1.98	0.61
1:1:601:LEU:N	1:1:604:MET:SD	2.69	0.61
1:3:497:ASN:ND2	1:4:456:THR:O	2.31	0.61
1:5:353:VAL:H	1:5:645:GLN:NE2	1.98	0.61
1:B:345:ASP:OD1	1:B:346:SER:N	2.31	0.61
1:C:353:VAL:H	1:C:645:GLN:NE2	1.98	0.61
1:D:353:VAL:H	1:D:645:GLN:NE2	1.98	0.61
1:E:518:ASN:HB3	1:E:519:PRO:HD3	1.81	0.61
1:J:345:ASP:OD1	1:J:346:SER:N	2.31	0.61
1:P:353:VAL:H	1:P:645:GLN:NE2	1.98	0.61
1:c:253:ASN:OD1	1:c:374:GLN:NE2	2.32	0.61
1:i:413:TYR:OH	1:i:641:HIS:O	2.17	0.61
1:j:345:ASP:OD1	1:j:346:SER:N	2.31	0.61
1:k:413:TYR:OH	1:k:641:HIS:O	2.17	0.61
1:n:353:VAL:H	1:n:645:GLN:NE2	1.98	0.61
1:u:353:VAL:H	1:u:645:GLN:NE2	1.98	0.61
1:x:601:LEU:N	1:x:604:MET:SD	2.69	0.61
1:3:553:ASP:OD2	1:4:459:ARG:NH2	2.31	0.61
1:4:413:TYR:OH	1:4:641:HIS:O	2.17	0.61
1:D:610:ASP:OD1	1:D:728:THR:HG22	2.01	0.61
1:G:353:VAL:H	1:G:645:GLN:NE2	1.98	0.61
1:H:353:VAL:H	1:H:645:GLN:NE2	1.98	0.61
1:J:413:TYR:OH	1:J:641:HIS:O	2.17	0.61
1:J:610:ASP:OD1	1:J:728:THR:HG22	2.01	0.61
1:W:353:VAL:H	1:W:645:GLN:NE2	1.98	0.61
1:X:610:ASP:OD1	1:X:728:THR:HG22	2.01	0.61
1:Y:353:VAL:H	1:Y:645:GLN:NE2	1.98	0.61
1:Z:353:VAL:H	1:Z:645:GLN:NE2	1.98	0.61
1:c:456:THR:O	1:o:497:ASN:ND2	2.31	0.61
1:j:253:ASN:OD1	1:j:374:GLN:NE2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:253:ASN:OD1	1:m:374:GLN:NE2	2.32	0.61
1:m:345:ASP:OD1	1:m:346:SER:N	2.31	0.61
1:n:610:ASP:OD1	1:n:728:THR:HG22	2.01	0.61
1:y:353:VAL:H	1:y:645:GLN:NE2	1.98	0.61
1:1:353:VAL:H	1:1:645:GLN:NE2	1.98	0.61
1:2:413:TYR:OH	1:2:641:HIS:O	2.17	0.61
1:5:518:ASN:HB3	1:5:519:PRO:HD3	1.81	0.61
1:5:610:ASP:OD1	1:5:728:THR:HG22	2.01	0.61
1:B:253:ASN:OD1	1:B:374:GLN:NE2	2.32	0.61
1:B:353:VAL:H	1:B:645:GLN:NE2	1.98	0.61
1:J:252:TYR:OH	1:J:372:VAL:O	2.14	0.61
1:M:610:ASP:OD1	1:M:728:THR:HG22	2.01	0.61
1:V:456:THR:O	1:e:497:ASN:ND2	2.32	0.61
1:W:610:ASP:OD1	1:W:728:THR:HG22	2.01	0.61
1:a:601:LEU:N	1:a:604:MET:SD	2.69	0.61
1:a:610:ASP:OD1	1:a:728:THR:HG22	2.01	0.61
1:g:610:ASP:OD1	1:g:728:THR:HG22	2.01	0.61
1:k:610:ASP:OD1	1:k:728:THR:HG22	2.01	0.61
1:m:353:VAL:H	1:m:645:GLN:NE2	1.98	0.61
1:p:413:TYR:OH	1:p:641:HIS:O	2.17	0.61
1:q:483:TYR:H	1:q:523:MET:CE	2.11	0.61
1:t:610:ASP:OD1	1:t:728:THR:HG22	2.01	0.61
1:v:353:VAL:H	1:v:645:GLN:NE2	1.98	0.61
1:4:483:TYR:H	1:4:523:MET:CE	2.11	0.61
1:8:413:TYR:OH	1:8:641:HIS:O	2.17	0.61
1:B:413:TYR:OH	1:B:641:HIS:O	2.17	0.60
1:D:413:TYR:OH	1:D:641:HIS:O	2.17	0.60
1:G:447:ARG:HD2	1:G:461:GLN:OE1	1.99	0.60
1:H:345:ASP:OD1	1:H:346:SER:N	2.30	0.60
1:K:601:LEU:N	1:K:604:MET:SD	2.69	0.60
1:L:413:TYR:OH	1:L:641:HIS:O	2.17	0.60
1:O:345:ASP:OD1	1:O:346:SER:N	2.31	0.60
1:R:413:TYR:OH	1:R:641:HIS:O	2.17	0.60
1:T:518:ASN:HB3	1:T:519:PRO:HD3	1.80	0.60
1:b:518:ASN:HB3	1:b:519:PRO:HD3	1.80	0.60
1:d:610:ASP:OD1	1:d:728:THR:HG22	2.01	0.60
1:f:413:TYR:OH	1:f:641:HIS:O	2.17	0.60
1:h:601:LEU:N	1:h:604:MET:SD	2.69	0.60
1:n:413:TYR:OH	1:n:641:HIS:O	2.17	0.60
1:o:353:VAL:H	1:o:645:GLN:NE2	1.98	0.60
1:q:553:ASP:OD2	1:s:459:ARG:NH2	2.30	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:610:ASP:OD1	1:4:728:THR:HG22	2.01	0.60
1:6:353:VAL:H	1:6:645:GLN:NE2	1.98	0.60
1:C:610:ASP:OD1	1:C:728:THR:HG22	2.01	0.60
1:P:345:ASP:OD1	1:P:346:SER:N	2.31	0.60
1:U:353:VAL:H	1:U:645:GLN:NE2	1.98	0.60
1:j:413:TYR:OH	1:j:641:HIS:O	2.17	0.60
1:l:610:ASP:OD1	1:l:728:THR:HG22	2.01	0.60
1:s:610:ASP:OD1	1:s:728:THR:HG22	2.01	0.60
1:2:483:TYR:H	1:2:523:MET:CE	2.11	0.60
1:2:610:ASP:OD1	1:2:728:THR:HG22	2.01	0.60
1:D:231:ASP:OD1	1:D:232:SER:N	2.35	0.60
1:F:483:TYR:H	1:F:523:MET:CE	2.11	0.60
1:N:231:ASP:OD1	1:N:232:SER:N	2.35	0.60
1:N:345:ASP:OD1	1:N:346:SER:N	2.31	0.60
1:O:231:ASP:OD1	1:O:232:SER:N	2.35	0.60
1:U:610:ASP:OD1	1:U:728:THR:HG22	2.01	0.60
1:W:601:LEU:N	1:W:604:MET:SD	2.69	0.60
1:f:353:VAL:H	1:f:645:GLN:NE2	1.98	0.60
1:f:610:ASP:OD1	1:f:728:THR:HG22	2.01	0.60
1:i:610:ASP:OD1	1:i:728:THR:HG22	2.01	0.60
1:j:353:VAL:H	1:j:645:GLN:NE2	1.98	0.60
1:x:413:TYR:OH	1:x:641:HIS:O	2.17	0.60
1:y:447:ARG:HD2	1:y:461:GLN:OE1	1.99	0.60
1:4:252:TYR:OH	1:4:372:VAL:O	2.14	0.60
1:5:413:TYR:OH	1:5:641:HIS:O	2.17	0.60
1:6:610:ASP:OD1	1:6:728:THR:HG22	2.01	0.60
1:8:353:VAL:H	1:8:645:GLN:NE2	1.98	0.60
1:B:231:ASP:OD1	1:B:232:SER:N	2.35	0.60
1:B:610:ASP:OD1	1:B:728:THR:HG22	2.01	0.60
1:C:601:LEU:N	1:C:604:MET:SD	2.69	0.60
1:Q:610:ASP:OD1	1:Q:728:THR:HG22	2.01	0.60
1:S:231:ASP:OD1	1:S:232:SER:N	2.35	0.60
1:T:610:ASP:OD1	1:T:728:THR:HG22	2.01	0.60
1:V:353:VAL:H	1:V:645:GLN:NE2	1.98	0.60
1:Z:483:TYR:H	1:Z:523:MET:CE	2.11	0.60
1:j:483:TYR:H	1:j:523:MET:CE	2.11	0.60
1:j:610:ASP:OD1	1:j:728:THR:HG22	2.01	0.60
1:l:601:LEU:N	1:l:604:MET:SD	2.69	0.60
1:n:231:ASP:OD1	1:n:232:SER:N	2.35	0.60
1:v:345:ASP:OD1	1:v:346:SER:N	2.31	0.60
1:1:231:ASP:OD1	1:1:232:SER:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:483:TYR:H	1:1:523:MET:CE	2.11	0.60
1:1:610:ASP:OD1	1:1:728:THR:HG22	2.01	0.60
1:3:353:VAL:H	1:3:645:GLN:NE2	1.98	0.60
1:7:610:ASP:OD1	1:7:728:THR:HG22	2.01	0.60
1:8:610:ASP:OD1	1:8:728:THR:HG22	2.01	0.60
1:A:413:TYR:OH	1:A:641:HIS:O	2.17	0.60
1:S:456:THR:O	1:U:497:ASN:ND2	2.32	0.60
1:V:610:ASP:OD1	1:V:728:THR:HG22	2.01	0.60
1:W:231:ASP:OD1	1:W:232:SER:N	2.35	0.60
1:W:459:ARG:NH2	1:Y:553:ASP:OD2	2.31	0.60
1:Z:231:ASP:OD1	1:Z:232:SER:N	2.35	0.60
1:Z:610:ASP:OD1	1:Z:728:THR:HG22	2.01	0.60
1:b:610:ASP:OD1	1:b:728:THR:HG22	2.01	0.60
1:c:231:ASP:OD1	1:c:232:SER:N	2.35	0.60
1:e:610:ASP:OD1	1:e:728:THR:HG22	2.01	0.60
1:h:610:ASP:OD1	1:h:728:THR:HG22	2.01	0.60
1:j:231:ASP:OD1	1:j:232:SER:N	2.35	0.60
1:o:610:ASP:OD1	1:o:728:THR:HG22	2.01	0.60
1:t:231:ASP:OD1	1:t:232:SER:N	2.35	0.60
1:u:601:LEU:N	1:u:604:MET:SD	2.69	0.60
1:v:231:ASP:OD1	1:v:232:SER:N	2.35	0.60
1:w:610:ASP:OD1	1:w:728:THR:HG22	2.01	0.60
1:z:353:VAL:H	1:z:645:GLN:NE2	1.98	0.60
1:1:456:THR:O	1:2:497:ASN:ND2	2.32	0.60
1:2:345:ASP:OD1	1:2:346:SER:N	2.31	0.60
1:B:456:THR:O	1:J:497:ASN:ND2	2.31	0.60
1:B:483:TYR:H	1:B:523:MET:CE	2.11	0.60
1:C:657:PRO:HB2	1:D:371:MET:HE2	1.84	0.60
1:H:231:ASP:OD1	1:H:232:SER:N	2.35	0.60
1:I:610:ASP:OD1	1:I:728:THR:HG22	2.01	0.60
1:K:610:ASP:OD1	1:K:728:THR:HG22	2.01	0.60
1:L:610:ASP:OD1	1:L:728:THR:HG22	2.01	0.60
1:X:413:TYR:OH	1:X:641:HIS:O	2.17	0.60
1:Y:601:LEU:N	1:Y:604:MET:SD	2.69	0.60
1:a:219:ASP:HB3	1:a:223:ASN:HB2	1.84	0.60
1:j:456:THR:O	1:k:497:ASN:ND2	2.32	0.60
1:q:610:ASP:OD1	1:q:728:THR:HG22	2.01	0.60
1:x:353:VAL:H	1:x:645:GLN:NE2	1.98	0.60
1:A:353:VAL:H	1:A:645:GLN:NE2	1.98	0.60
1:E:456:THR:O	1:Q:497:ASN:ND2	2.31	0.60
1:F:610:ASP:OD1	1:F:728:THR:HG22	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:231:ASP:OD1	1:I:232:SER:N	2.35	0.60
1:K:231:ASP:OD1	1:K:232:SER:N	2.35	0.60
1:M:553:ASP:OD2	1:b:459:ARG:NH2	2.29	0.60
1:N:219:ASP:HB3	1:N:223:ASN:HB2	1.84	0.60
1:N:610:ASP:OD1	1:N:728:THR:HG22	2.01	0.60
1:O:219:ASP:HB3	1:O:223:ASN:HB2	1.84	0.60
1:V:601:LEU:N	1:V:604:MET:SD	2.69	0.60
1:b:231:ASP:OD1	1:b:232:SER:N	2.35	0.60
1:g:219:ASP:HB3	1:g:223:ASN:HB2	1.84	0.60
1:g:413:TYR:OH	1:g:641:HIS:O	2.17	0.60
1:g:601:LEU:N	1:g:604:MET:SD	2.69	0.60
1:m:413:TYR:OH	1:m:641:HIS:O	2.17	0.60
1:o:459:ARG:NH2	1:p:553:ASP:OD2	2.31	0.60
1:q:219:ASP:HB3	1:q:223:ASN:HB2	1.84	0.60
1:s:601:LEU:N	1:s:604:MET:SD	2.69	0.60
1:t:219:ASP:HB3	1:t:223:ASN:HB2	1.84	0.60
1:t:601:LEU:N	1:t:604:MET:SD	2.69	0.60
1:w:219:ASP:HB3	1:w:223:ASN:HB2	1.84	0.60
1:z:231:ASP:OD1	1:z:232:SER:N	2.35	0.60
1:z:610:ASP:OD1	1:z:728:THR:HG22	2.01	0.60
1:2:231:ASP:OD1	1:2:232:SER:N	2.35	0.60
1:3:231:ASP:OD1	1:3:232:SER:N	2.35	0.60
1:3:610:ASP:OD1	1:3:728:THR:HG22	2.01	0.60
1:4:231:ASP:OD1	1:4:232:SER:N	2.35	0.60
1:C:219:ASP:HB3	1:C:223:ASN:HB2	1.84	0.60
1:F:553:ASP:OD2	1:Q:459:ARG:NH2	2.31	0.60
1:H:610:ASP:OD1	1:H:728:THR:HG22	2.01	0.60
1:I:219:ASP:HB3	1:I:223:ASN:HB2	1.84	0.60
1:O:610:ASP:OD1	1:O:728:THR:HG22	2.01	0.60
1:P:413:TYR:OH	1:P:641:HIS:O	2.17	0.60
1:T:231:ASP:OD1	1:T:232:SER:N	2.35	0.60
1:W:219:ASP:HB3	1:W:223:ASN:HB2	1.84	0.60
1:X:231:ASP:OD1	1:X:232:SER:N	2.35	0.60
1:a:413:TYR:OH	1:a:641:HIS:O	2.17	0.60
1:e:231:ASP:OD1	1:e:232:SER:N	2.35	0.60
1:i:219:ASP:HB3	1:i:223:ASN:HB2	1.84	0.60
1:l:252:TYR:OH	1:l:372:VAL:O	2.14	0.60
1:p:610:ASP:OD1	1:p:728:THR:HG22	2.01	0.60
1:v:601:LEU:N	1:v:604:MET:SD	2.69	0.60
1:w:553:ASP:OD2	1:y:459:ARG:NH2	2.30	0.60
1:x:459:ARG:NH2	1:y:553:ASP:OD2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:345:ASP:OD1	1:4:346:SER:N	2.31	0.60
1:7:231:ASP:OD1	1:7:232:SER:N	2.35	0.60
1:B:553:ASP:OD2	1:L:459:ARG:NH2	2.31	0.60
1:F:219:ASP:HB3	1:F:223:ASN:HB2	1.84	0.60
1:G:231:ASP:OD1	1:G:232:SER:N	2.35	0.60
1:H:601:LEU:N	1:H:604:MET:SD	2.69	0.60
1:L:219:ASP:HB3	1:L:223:ASN:HB2	1.84	0.60
1:R:553:ASP:OD2	1:U:459:ARG:NH2	2.31	0.60
1:R:610:ASP:OD1	1:R:728:THR:HG22	2.01	0.60
1:S:610:ASP:OD1	1:S:728:THR:HG22	2.01	0.60
1:c:497:ASN:ND2	1:p:456:THR:O	2.31	0.60
1:c:610:ASP:OD1	1:c:728:THR:HG22	2.01	0.60
1:h:231:ASP:OD1	1:h:232:SER:N	2.35	0.60
1:i:459:ARG:NH2	1:j:553:ASP:OD2	2.31	0.60
1:v:610:ASP:OD1	1:v:728:THR:HG22	2.01	0.60
1:w:231:ASP:OD1	1:w:232:SER:N	2.35	0.60
1:y:610:ASP:OD1	1:y:728:THR:HG22	2.01	0.60
1:5:231:ASP:OD1	1:5:232:SER:N	2.35	0.60
1:A:459:ARG:NH2	1:G:553:ASP:OD2	2.31	0.60
1:A:610:ASP:OD1	1:A:728:THR:HG22	2.01	0.60
1:E:252:TYR:OH	1:E:372:VAL:O	2.14	0.60
1:H:219:ASP:HB3	1:H:223:ASN:HB2	1.84	0.60
1:J:219:ASP:HB3	1:J:223:ASN:HB2	1.84	0.60
1:X:345:ASP:OD1	1:X:346:SER:N	2.31	0.60
1:Z:219:ASP:HB3	1:Z:223:ASN:HB2	1.84	0.60
1:a:345:ASP:OD1	1:a:346:SER:N	2.30	0.60
1:k:219:ASP:HB3	1:k:223:ASN:HB2	1.84	0.60
1:l:219:ASP:HB3	1:l:223:ASN:HB2	1.84	0.60
1:o:231:ASP:OD1	1:o:232:SER:N	2.35	0.60
1:o:601:LEU:N	1:o:604:MET:SD	2.69	0.60
1:v:219:ASP:HB3	1:v:223:ASN:HB2	1.84	0.60
1:x:219:ASP:HB3	1:x:223:ASN:HB2	1.84	0.60
1:y:231:ASP:OD1	1:y:232:SER:N	2.35	0.60
1:1:459:ARG:NH2	1:2:553:ASP:OD2	2.30	0.60
1:5:456:THR:O	1:6:497:ASN:ND2	2.31	0.60
1:8:219:ASP:HB3	1:8:223:ASN:HB2	1.84	0.60
1:A:231:ASP:OD1	1:A:232:SER:N	2.35	0.59
1:L:231:ASP:OD1	1:L:232:SER:N	2.35	0.59
1:P:353:VAL:H	1:P:645:GLN:HE22	1.50	0.59
1:U:231:ASP:OD1	1:U:232:SER:N	2.35	0.59
1:V:353:VAL:H	1:V:645:GLN:HE22	1.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:483:TYR:H	1:W:523:MET:CE	2.11	0.59
1:f:219:ASP:HB3	1:f:223:ASN:HB2	1.84	0.59
1:f:345:ASP:OD1	1:f:346:SER:N	2.31	0.59
1:f:353:VAL:H	1:f:645:GLN:HE22	1.50	0.59
1:g:345:ASP:OD1	1:g:346:SER:N	2.31	0.59
1:i:231:ASP:OD1	1:i:232:SER:N	2.35	0.59
1:m:353:VAL:H	1:m:645:GLN:HE22	1.50	0.59
1:x:231:ASP:OD1	1:x:232:SER:N	2.35	0.59
1:5:345:ASP:OD1	1:5:346:SER:N	2.31	0.59
1:5:353:VAL:H	1:5:645:GLN:HE22	1.50	0.59
1:8:353:VAL:H	1:8:645:GLN:HE22	1.50	0.59
1:A:219:ASP:HB3	1:A:223:ASN:HB2	1.84	0.59
1:I:353:VAL:H	1:I:645:GLN:HE22	1.50	0.59
1:T:553:ASP:OD2	1:l:459:ARG:NH2	2.30	0.59
1:X:353:VAL:H	1:X:645:GLN:HE22	1.50	0.59
1:Y:610:ASP:OD1	1:Y:728:THR:HG22	2.01	0.59
1:Z:459:ARG:NH2	1:4:553:ASP:OD2	2.31	0.59
1:d:459:ARG:NH2	1:l:553:ASP:OD2	2.30	0.59
1:u:610:ASP:OD1	1:u:728:THR:HG22	2.01	0.59
1:x:610:ASP:OD1	1:x:728:THR:HG22	2.01	0.59
1:1:219:ASP:HB3	1:1:223:ASN:HB2	1.84	0.59
1:2:219:ASP:HB3	1:2:223:ASN:HB2	1.84	0.59
1:6:353:VAL:H	1:6:645:GLN:HE22	1.50	0.59
1:A:353:VAL:H	1:A:645:GLN:HE22	1.51	0.59
1:F:231:ASP:OD1	1:F:232:SER:N	2.35	0.59
1:G:610:ASP:OD1	1:G:728:THR:HG22	2.01	0.59
1:T:353:VAL:H	1:T:645:GLN:HE22	1.50	0.59
1:Y:231:ASP:OD1	1:Y:232:SER:N	2.35	0.59
1:b:353:VAL:H	1:b:645:GLN:HE22	1.51	0.59
1:i:553:ASP:OD2	1:k:459:ARG:NH2	2.31	0.59
1:q:231:ASP:OD1	1:q:232:SER:N	2.35	0.59
1:r:610:ASP:OD1	1:r:728:THR:HG22	2.01	0.59
1:t:483:TYR:H	1:t:523:MET:CE	2.11	0.59
1:w:353:VAL:H	1:w:645:GLN:HE22	1.50	0.59
1:8:345:ASP:OD1	1:8:346:SER:N	2.31	0.59
1:B:219:ASP:HB3	1:B:223:ASN:HB2	1.84	0.59
1:E:610:ASP:OD1	1:E:728:THR:HG22	2.01	0.59
1:Q:601:LEU:N	1:Q:604:MET:SD	2.69	0.59
1:R:231:ASP:OD1	1:R:232:SER:N	2.35	0.59
1:d:231:ASP:OD1	1:d:232:SER:N	2.35	0.59
1:f:231:ASP:OD1	1:f:232:SER:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:353:VAL:H	1:g:645:GLN:HE22	1.50	0.59
1:j:219:ASP:HB3	1:j:223:ASN:HB2	1.84	0.59
1:p:231:ASP:OD1	1:p:232:SER:N	2.35	0.59
1:u:231:ASP:OD1	1:u:232:SER:N	2.35	0.59
1:x:353:VAL:H	1:x:645:GLN:HE22	1.51	0.59
1:z:497:ASN:ND2	1:2:456:THR:O	2.32	0.59
1:7:601:LEU:N	1:7:604:MET:SD	2.69	0.59
1:8:231:ASP:OD1	1:8:232:SER:N	2.35	0.59
1:J:459:ARG:NH2	1:L:553:ASP:OD2	2.31	0.59
1:M:231:ASP:OD1	1:M:232:SER:N	2.35	0.59
1:Z:456:THR:O	1:4:497:ASN:ND2	2.32	0.59
1:a:353:VAL:H	1:a:645:GLN:HE22	1.51	0.59
1:r:219:ASP:HB3	1:r:223:ASN:HB2	1.84	0.59
1:x:345:ASP:OD1	1:x:346:SER:N	2.31	0.59
1:4:219:ASP:HB3	1:4:223:ASN:HB2	1.84	0.59
1:6:601:LEU:N	1:6:604:MET:SD	2.69	0.59
1:E:219:ASP:HB3	1:E:223:ASN:HB2	1.84	0.59
1:E:231:ASP:OD1	1:E:232:SER:N	2.35	0.59
1:U:601:LEU:N	1:U:604:MET:SD	2.69	0.59
1:d:219:ASP:HB3	1:d:223:ASN:HB2	1.84	0.59
1:m:610:ASP:OD1	1:m:728:THR:HG22	2.01	0.59
1:3:353:VAL:H	1:3:645:GLN:HE22	1.50	0.59
1:5:483:TYR:H	1:5:523:MET:CE	2.11	0.59
1:A:345:ASP:OD1	1:A:346:SER:N	2.31	0.59
1:G:459:ARG:NH2	1:I:553:ASP:OD2	2.31	0.59
1:J:231:ASP:OD1	1:J:232:SER:N	2.35	0.59
1:Q:219:ASP:HB3	1:Q:223:ASN:HB2	1.84	0.59
1:o:483:TYR:H	1:o:523:MET:CE	2.11	0.59
1:r:231:ASP:OD1	1:r:232:SER:N	2.35	0.59
1:A:553:ASP:OD2	1:I:459:ARG:NH2	2.31	0.59
1:C:231:ASP:OD1	1:C:232:SER:N	2.35	0.59
1:E:553:ASP:OD2	1:F:459:ARG:NH2	2.31	0.59
1:J:353:VAL:H	1:J:645:GLN:HE22	1.50	0.59
1:M:219:ASP:HB3	1:M:223:ASN:HB2	1.84	0.59
1:P:610:ASP:OD1	1:P:728:THR:HG22	2.01	0.59
1:X:483:TYR:H	1:X:523:MET:CE	2.11	0.59
1:h:353:VAL:H	1:h:645:GLN:HE22	1.50	0.59
1:i:456:THR:O	1:j:497:ASN:ND2	2.31	0.59
1:k:353:VAL:H	1:k:645:GLN:HE22	1.50	0.59
1:z:353:VAL:H	1:z:645:GLN:HE22	1.51	0.59
1:z:601:LEU:N	1:z:604:MET:SD	2.69	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:601:LEU:N	1:2:604:MET:SD	2.69	0.59
1:4:601:LEU:N	1:4:604:MET:SD	2.69	0.59
1:B:353:VAL:H	1:B:645:GLN:HE22	1.50	0.59
1:e:601:LEU:N	1:e:604:MET:SD	2.69	0.59
1:j:353:VAL:H	1:j:645:GLN:HE22	1.50	0.59
1:l:231:ASP:OD1	1:l:232:SER:N	2.35	0.59
1:l:483:TYR:H	1:l:523:MET:CE	2.11	0.59
1:B:497:ASN:ND2	1:L:456:THR:O	2.31	0.59
1:F:353:VAL:H	1:F:645:GLN:HE22	1.50	0.59
1:T:219:ASP:HB3	1:T:223:ASN:HB2	1.84	0.59
1:U:483:TYR:H	1:U:523:MET:CE	2.11	0.59
1:e:219:ASP:HB3	1:e:223:ASN:HB2	1.84	0.59
1:k:231:ASP:OD1	1:k:232:SER:N	2.35	0.59
1:m:219:ASP:HB3	1:m:223:ASN:HB2	1.84	0.59
1:q:353:VAL:H	1:q:645:GLN:HE22	1.50	0.59
1:s:219:ASP:HB3	1:s:223:ASN:HB2	1.84	0.59
1:y:219:ASP:HB3	1:y:223:ASN:HB2	1.84	0.59
1:K:353:VAL:H	1:K:645:GLN:HE22	1.51	0.58
1:O:353:VAL:H	1:O:645:GLN:HE22	1.50	0.58
1:R:483:TYR:H	1:R:523:MET:CE	2.11	0.58
1:V:231:ASP:OD1	1:V:232:SER:N	2.35	0.58
1:b:219:ASP:HB3	1:b:223:ASN:HB2	1.84	0.58
1:h:219:ASP:HB3	1:h:223:ASN:HB2	1.84	0.58
1:7:353:VAL:H	1:7:645:GLN:HE22	1.50	0.58
1:C:483:TYR:H	1:C:523:MET:CE	2.11	0.58
1:G:219:ASP:HB3	1:G:223:ASN:HB2	1.84	0.58
1:P:219:ASP:HB3	1:P:223:ASN:HB2	1.84	0.58
1:Q:231:ASP:OD1	1:Q:232:SER:N	2.35	0.58
1:R:456:THR:O	1:S:497:ASN:ND2	2.31	0.58
1:T:456:THR:O	1:d:497:ASN:ND2	2.32	0.58
1:V:497:ASN:ND2	1:X:456:THR:O	2.32	0.58
1:a:231:ASP:OD1	1:a:232:SER:N	2.35	0.58
1:h:345:ASP:OD1	1:h:346:SER:N	2.31	0.58
1:l:353:VAL:H	1:l:645:GLN:HE22	1.50	0.58
1:p:483:TYR:H	1:p:523:MET:CE	2.11	0.58
1:s:231:ASP:OD1	1:s:232:SER:N	2.35	0.58
1:u:219:ASP:HB3	1:u:223:ASN:HB2	1.84	0.58
1:C:353:VAL:H	1:C:645:GLN:HE22	1.51	0.58
1:M:497:ASN:ND2	1:b:456:THR:O	2.32	0.58
1:N:353:VAL:H	1:N:645:GLN:HE22	1.50	0.58
1:P:231:ASP:OD1	1:P:232:SER:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:553:ASP:OD2	1:X:459:ARG:NH2	2.31	0.58
1:Y:219:ASP:HB3	1:Y:223:ASN:HB2	1.84	0.58
1:e:353:VAL:H	1:e:645:GLN:HE22	1.50	0.58
1:m:231:ASP:OD1	1:m:232:SER:N	2.35	0.58
1:q:459:ARG:NH2	1:r:553:ASP:OD2	2.31	0.58
1:6:231:ASP:OD1	1:6:232:SER:N	2.35	0.58
1:7:219:ASP:HB3	1:7:223:ASN:HB2	1.84	0.58
1:E:345:ASP:OD1	1:E:346:SER:N	2.31	0.58
1:F:433:LEU:HD11	1:F:735:LEU:HD22	1.86	0.58
1:K:219:ASP:HB3	1:K:223:ASN:HB2	1.84	0.58
1:K:345:ASP:OD1	1:K:346:SER:N	2.31	0.58
1:q:433:LEU:HD11	1:q:735:LEU:HD22	1.86	0.58
1:r:345:ASP:OD1	1:r:346:SER:N	2.30	0.58
1:u:433:LEU:HD11	1:u:735:LEU:HD22	1.86	0.58
1:7:433:LEU:HD11	1:7:735:LEU:HD22	1.86	0.58
1:E:483:TYR:H	1:E:523:MET:CE	2.11	0.58
1:R:219:ASP:HB3	1:R:223:ASN:HB2	1.84	0.58
1:Y:433:LEU:HD11	1:Y:735:LEU:HD22	1.86	0.58
1:e:433:LEU:HD11	1:e:735:LEU:HD22	1.86	0.58
1:g:231:ASP:OD1	1:g:232:SER:N	2.35	0.58
1:r:483:TYR:H	1:r:523:MET:CE	2.11	0.58
1:u:459:ARG:NH2	1:v:553:ASP:OD2	2.31	0.58
1:u:483:TYR:H	1:u:523:MET:CE	2.11	0.58
1:B:433:LEU:HD11	1:B:735:LEU:HD22	1.86	0.58
1:c:219:ASP:HB3	1:c:223:ASN:HB2	1.84	0.58
1:j:433:LEU:HD11	1:j:735:LEU:HD22	1.86	0.58
1:m:601:LEU:N	1:m:604:MET:SD	2.69	0.58
1:p:219:ASP:HB3	1:p:223:ASN:HB2	1.84	0.58
1:w:433:LEU:HD11	1:w:735:LEU:HD22	1.86	0.58
1:3:601:LEU:N	1:3:604:MET:SD	2.69	0.58
1:G:456:THR:O	1:I:497:ASN:ND2	2.32	0.58
1:H:459:ARG:NH2	1:W:553:ASP:OD2	2.31	0.58
1:I:433:LEU:HD11	1:I:735:LEU:HD22	1.86	0.58
1:K:433:LEU:HD11	1:K:735:LEU:HD22	1.86	0.58
1:M:433:LEU:HD11	1:M:735:LEU:HD22	1.86	0.58
1:P:433:LEU:HD11	1:P:735:LEU:HD22	1.86	0.58
1:S:219:ASP:HB3	1:S:223:ASN:HB2	1.84	0.58
1:b:601:LEU:N	1:b:604:MET:SD	2.69	0.58
1:h:433:LEU:HD11	1:h:735:LEU:HD22	1.86	0.58
1:u:456:THR:O	1:v:497:ASN:ND2	2.32	0.58
1:2:353:VAL:H	1:2:645:GLN:HE22	1.50	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:580:SER:O	1:b:484:ARG:HD3	2.03	0.58
1:D:219:ASP:HB3	1:D:223:ASN:HB2	1.84	0.58
1:D:345:ASP:OD1	1:D:346:SER:N	2.31	0.58
1:F:497:ASN:ND2	1:Q:456:THR:O	2.31	0.58
1:Y:483:TYR:H	1:Y:523:MET:CE	2.11	0.58
1:d:433:LEU:HD11	1:d:735:LEU:HD22	1.86	0.58
1:i:433:LEU:HD11	1:i:735:LEU:HD22	1.86	0.58
1:m:433:LEU:HD11	1:m:735:LEU:HD22	1.86	0.58
1:U:219:ASP:HB3	1:U:223:ASN:HB2	1.84	0.58
1:f:553:ASP:OD2	1:g:459:ARG:NH2	2.31	0.58
1:o:219:ASP:HB3	1:o:223:ASN:HB2	1.84	0.58
1:o:353:VAL:H	1:o:645:GLN:HE22	1.50	0.58
1:q:497:ASN:ND2	1:s:456:THR:O	2.31	0.58
1:w:459:ARG:NH2	1:x:553:ASP:OD2	2.32	0.58
1:4:353:VAL:H	1:4:645:GLN:HE22	1.51	0.58
1:5:219:ASP:HB3	1:5:223:ASN:HB2	1.84	0.58
1:8:433:LEU:HD11	1:8:735:LEU:HD22	1.86	0.58
1:L:433:LEU:HD11	1:L:735:LEU:HD22	1.86	0.58
1:U:353:VAL:H	1:U:645:GLN:HE22	1.50	0.58
1:f:433:LEU:HD11	1:f:735:LEU:HD22	1.86	0.58
1:l:433:LEU:HD11	1:l:735:LEU:HD22	1.86	0.58
1:n:219:ASP:HB3	1:n:223:ASN:HB2	1.84	0.58
1:o:345:ASP:OD1	1:o:346:SER:N	2.31	0.58
1:5:459:ARG:NH2	1:6:553:ASP:OD2	2.31	0.58
1:H:433:LEU:HD11	1:H:735:LEU:HD22	1.86	0.57
1:K:459:ARG:NH2	1:a:553:ASP:OD2	2.31	0.57
1:O:433:LEU:HD11	1:O:735:LEU:HD22	1.86	0.57
1:U:345:ASP:OD1	1:U:346:SER:N	2.31	0.57
1:c:433:LEU:HD11	1:c:735:LEU:HD22	1.86	0.57
1:t:553:ASP:OD2	1:v:459:ARG:NH2	2.31	0.57
1:v:353:VAL:H	1:v:645:GLN:HE22	1.51	0.57
1:v:433:LEU:HD11	1:v:735:LEU:HD22	1.86	0.57
1:C:433:LEU:HD11	1:C:735:LEU:HD22	1.86	0.57
1:H:353:VAL:H	1:H:645:GLN:HE22	1.50	0.57
1:H:497:ASN:ND2	1:Y:456:THR:O	2.32	0.57
1:H:553:ASP:OD2	1:Y:459:ARG:NH2	2.32	0.57
1:N:433:LEU:HD11	1:N:735:LEU:HD22	1.86	0.57
1:T:459:ARG:NH2	1:d:553:ASP:OD2	2.31	0.57
1:X:219:ASP:HB3	1:X:223:ASN:HB2	1.84	0.57
1:Z:433:LEU:HD11	1:Z:735:LEU:HD22	1.86	0.57
1:w:456:THR:O	1:x:497:ASN:ND2	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:553:ASP:OD2	1:7:459:ARG:NH2	2.30	0.57
1:6:219:ASP:HB3	1:6:223:ASN:HB2	1.84	0.57
1:P:601:LEU:N	1:P:604:MET:SD	2.69	0.57
1:R:353:VAL:H	1:R:645:GLN:HE22	1.51	0.57
1:S:353:VAL:H	1:S:645:GLN:HE22	1.50	0.57
1:S:433:LEU:HD11	1:S:735:LEU:HD22	1.86	0.57
1:U:433:LEU:HD11	1:U:735:LEU:HD22	1.86	0.57
1:V:219:ASP:HB3	1:V:223:ASN:HB2	1.84	0.57
1:n:353:VAL:H	1:n:645:GLN:HE22	1.50	0.57
1:z:219:ASP:HB3	1:z:223:ASN:HB2	1.84	0.57
1:1:353:VAL:H	1:1:645:GLN:HE22	1.51	0.57
1:3:219:ASP:HB3	1:3:223:ASN:HB2	1.84	0.57
1:D:353:VAL:H	1:D:645:GLN:HE22	1.50	0.57
1:M:353:VAL:H	1:M:645:GLN:HE22	1.51	0.57
1:Z:353:VAL:H	1:Z:645:GLN:HE22	1.51	0.57
1:b:433:LEU:HD11	1:b:735:LEU:HD22	1.86	0.57
1:c:353:VAL:H	1:c:645:GLN:HE22	1.50	0.57
1:o:433:LEU:HD11	1:o:735:LEU:HD22	1.86	0.57
1:t:353:VAL:H	1:t:645:GLN:HE22	1.50	0.57
1:u:353:VAL:H	1:u:645:GLN:HE22	1.50	0.57
1:1:433:LEU:HD11	1:1:735:LEU:HD22	1.86	0.57
1:A:497:ASN:ND2	1:I:456:THR:O	2.31	0.57
1:Z:345:ASP:OD1	1:Z:346:SER:N	2.31	0.57
1:p:353:VAL:H	1:p:645:GLN:HE22	1.50	0.57
1:w:497:ASN:ND2	1:y:456:THR:O	2.33	0.57
1:y:433:LEU:HD11	1:y:735:LEU:HD22	1.86	0.57
1:C:484:ARG:HD3	1:M:580:SER:O	2.05	0.57
1:G:433:LEU:HD11	1:G:735:LEU:HD22	1.86	0.57
1:J:601:LEU:N	1:J:604:MET:SD	2.69	0.57
1:a:459:ARG:NH2	1:8:553:ASP:OD2	2.31	0.57
1:j:601:LEU:N	1:j:604:MET:SD	2.69	0.57
1:C:654:PRO:HG3	1:D:369:VAL:HG11	1.87	0.57
1:O:497:ASN:ND2	1:n:456:THR:O	2.31	0.57
1:S:513:ARG:HG3	1:S:513:ARG:O	2.05	0.57
1:X:601:LEU:N	1:X:604:MET:SD	2.69	0.57
1:d:353:VAL:H	1:d:645:GLN:HE22	1.50	0.57
1:q:229:HIS:O	1:q:244:THR:OG1	2.22	0.57
1:t:513:ARG:O	1:t:513:ARG:HG3	2.05	0.57
1:2:433:LEU:HD11	1:2:735:LEU:HD22	1.86	0.57
1:3:433:LEU:HD11	1:3:735:LEU:HD22	1.86	0.57
1:4:433:LEU:HD11	1:4:735:LEU:HD22	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:513:ARG:HG3	1:4:513:ARG:O	2.05	0.57
1:D:433:LEU:HD11	1:D:735:LEU:HD22	1.86	0.57
1:F:229:HIS:O	1:F:244:THR:OG1	2.23	0.57
1:T:433:LEU:HD11	1:T:735:LEU:HD22	1.86	0.57
1:V:433:LEU:HD11	1:V:735:LEU:HD22	1.86	0.57
1:W:353:VAL:H	1:W:645:GLN:HE22	1.51	0.57
1:W:513:ARG:HG3	1:W:513:ARG:O	2.05	0.57
1:c:513:ARG:HG3	1:c:513:ARG:O	2.05	0.57
1:2:513:ARG:HG3	1:2:513:ARG:O	2.05	0.57
1:5:601:LEU:N	1:5:604:MET:SD	2.69	0.57
1:A:433:LEU:HD11	1:A:735:LEU:HD22	1.86	0.57
1:B:601:LEU:N	1:B:604:MET:SD	2.69	0.57
1:D:456:THR:O	1:N:497:ASN:ND2	2.31	0.57
1:E:353:VAL:H	1:E:645:GLN:HE22	1.50	0.57
1:G:353:VAL:H	1:G:645:GLN:HE22	1.50	0.57
1:J:433:LEU:HD11	1:J:735:LEU:HD22	1.86	0.57
1:R:433:LEU:HD11	1:R:735:LEU:HD22	1.86	0.57
1:Y:353:VAL:H	1:Y:645:GLN:HE22	1.50	0.57
1:g:553:ASP:OD2	1:h:459:ARG:NH2	2.31	0.57
1:z:433:LEU:HD11	1:z:735:LEU:HD22	1.86	0.57
1:A:229:HIS:O	1:A:244:THR:OG1	2.23	0.57
1:C:513:ARG:HG3	1:C:513:ARG:O	2.05	0.57
1:b:513:ARG:HG3	1:b:513:ARG:O	2.05	0.57
1:g:497:ASN:ND2	1:h:456:THR:O	2.31	0.57
1:l:513:ARG:O	1:l:513:ARG:HG3	2.05	0.57
1:r:353:VAL:H	1:r:645:GLN:HE22	1.51	0.57
1:t:497:ASN:ND2	1:v:456:THR:O	2.31	0.57
1:x:229:HIS:O	1:x:244:THR:OG1	2.23	0.57
1:1:345:ASP:OD1	1:1:346:SER:N	2.31	0.57
1:6:433:LEU:HD11	1:6:735:LEU:HD22	1.86	0.57
1:E:433:LEU:HD11	1:E:735:LEU:HD22	1.86	0.56
1:J:456:THR:O	1:L:497:ASN:ND2	2.31	0.56
1:L:353:VAL:H	1:L:645:GLN:HE22	1.50	0.56
1:T:513:ARG:O	1:T:513:ARG:HG3	2.05	0.56
1:U:252:TYR:OH	1:U:372:VAL:O	2.14	0.56
1:Z:553:ASP:OD2	1:3:459:ARG:NH2	2.31	0.56
1:a:433:LEU:HD11	1:a:735:LEU:HD22	1.86	0.56
1:i:353:VAL:H	1:i:645:GLN:HE22	1.50	0.56
1:n:433:LEU:HD11	1:n:735:LEU:HD22	1.86	0.56
1:y:353:VAL:H	1:y:645:GLN:HE22	1.50	0.56
1:z:456:THR:O	1:1:497:ASN:ND2	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:456:THR:O	1:b:497:ASN:ND2	2.33	0.56
1:F:513:ARG:HG3	1:F:513:ARG:O	2.05	0.56
1:Q:353:VAL:H	1:Q:645:GLN:HE22	1.51	0.56
1:W:229:HIS:O	1:W:244:THR:OG1	2.23	0.56
1:W:433:LEU:HD11	1:W:735:LEU:HD22	1.86	0.56
1:g:433:LEU:HD11	1:g:735:LEU:HD22	1.86	0.56
1:k:433:LEU:HD11	1:k:735:LEU:HD22	1.86	0.56
1:p:433:LEU:HD11	1:p:735:LEU:HD22	1.86	0.56
1:q:513:ARG:HG3	1:q:513:ARG:O	2.05	0.56
1:r:433:LEU:HD11	1:r:735:LEU:HD22	1.86	0.56
1:t:433:LEU:HD11	1:t:735:LEU:HD22	1.86	0.56
1:x:433:LEU:HD11	1:x:735:LEU:HD22	1.86	0.56
1:A:513:ARG:O	1:A:513:ARG:HG3	2.05	0.56
1:A:657:PRO:HB2	1:B:371:MET:HE2	1.88	0.56
1:D:497:ASN:ND2	1:P:456:THR:O	2.31	0.56
1:E:513:ARG:HG3	1:E:513:ARG:O	2.05	0.56
1:F:371:MET:HE2	1:G:657:PRO:HB2	1.88	0.56
1:G:513:ARG:HG3	1:G:513:ARG:O	2.05	0.56
1:O:459:ARG:NH2	1:m:553:ASP:OD2	2.30	0.56
1:T:345:ASP:OD1	1:T:346:SER:N	2.31	0.56
1:U:513:ARG:HG3	1:U:513:ARG:O	2.05	0.56
1:X:553:ASP:OD2	1:e:459:ARG:NH2	2.31	0.56
1:Z:497:ASN:ND2	1:3:456:THR:O	2.32	0.56
1:k:601:LEU:N	1:k:604:MET:SD	2.69	0.56
1:o:513:ARG:O	1:o:513:ARG:HG3	2.05	0.56
1:q:371:MET:HE2	1:y:657:PRO:HB2	1.88	0.56
1:s:353:VAL:H	1:s:645:GLN:HE22	1.50	0.56
1:u:371:MET:HE2	1:2:657:PRO:HB2	1.87	0.56
1:x:456:THR:O	1:y:497:ASN:ND2	2.31	0.56
1:B:513:ARG:HG3	1:B:513:ARG:O	2.05	0.56
1:D:553:ASP:OD2	1:P:459:ARG:NH2	2.31	0.56
1:G:371:MET:HE2	1:W:657:PRO:HB2	1.88	0.56
1:K:657:PRO:HB2	1:7:371:MET:HE2	1.88	0.56
1:W:456:THR:O	1:Y:497:ASN:ND2	2.30	0.56
1:Y:371:MET:HE2	1:4:657:PRO:HB2	1.88	0.56
1:l:657:PRO:HB2	1:n:371:MET:HE2	1.88	0.56
1:o:371:MET:HE2	1:7:657:PRO:HB2	1.88	0.56
1:p:513:ARG:HG3	1:p:513:ARG:O	2.05	0.56
1:x:513:ARG:HG3	1:x:513:ARG:O	2.05	0.56
1:y:513:ARG:HG3	1:y:513:ARG:O	2.05	0.56
1:O:601:LEU:N	1:O:604:MET:SD	2.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:513:ARG:HG3	1:R:513:ARG:O	2.05	0.56
1:X:371:MET:HE2	1:Y:657:PRO:HB2	1.87	0.56
1:X:657:PRO:HB2	1:f:371:MET:HE2	1.88	0.56
1:r:513:ARG:HG3	1:r:513:ARG:O	2.05	0.56
1:7:513:ARG:HG3	1:7:513:ARG:O	2.05	0.56
1:A:456:THR:O	1:G:497:ASN:ND2	2.32	0.56
1:F:288:HIS:CE1	1:F:364:PRO:HG3	2.41	0.56
1:L:288:HIS:CE1	1:L:364:PRO:HG3	2.41	0.56
1:M:513:ARG:HG3	1:M:513:ARG:O	2.05	0.56
1:N:601:LEU:N	1:N:604:MET:SD	2.69	0.56
1:R:288:HIS:CE1	1:R:364:PRO:HG3	2.41	0.56
1:R:497:ASN:ND2	1:U:456:THR:O	2.31	0.56
1:X:433:LEU:HD11	1:X:735:LEU:HD22	1.86	0.56
1:a:287:PHE:HB2	1:a:613:LEU:O	2.06	0.56
1:b:345:ASP:OD1	1:b:346:SER:N	2.31	0.56
1:e:513:ARG:HG3	1:e:513:ARG:O	2.05	0.56
1:f:657:PRO:HB2	1:z:371:MET:HE2	1.88	0.56
1:m:287:PHE:HB2	1:m:613:LEU:O	2.06	0.56
1:m:459:ARG:NH2	1:n:553:ASP:OD2	2.31	0.56
1:p:288:HIS:CE1	1:p:364:PRO:HG3	2.41	0.56
1:t:657:PRO:HB2	1:y:371:MET:HE2	1.88	0.56
1:u:513:ARG:HG3	1:u:513:ARG:O	2.05	0.56
1:z:287:PHE:HB2	1:z:613:LEU:O	2.06	0.56
1:z:335:ASN:ND2	1:z:338:SER:HB2	2.21	0.56
1:D:287:PHE:HB2	1:D:613:LEU:O	2.06	0.56
1:H:657:PRO:HB2	1:Z:371:MET:HE2	1.88	0.56
1:K:456:THR:O	1:a:497:ASN:ND2	2.32	0.56
1:N:288:HIS:CE1	1:N:364:PRO:HG3	2.41	0.56
1:N:513:ARG:HG3	1:N:513:ARG:O	2.05	0.56
1:O:288:HIS:CE1	1:O:364:PRO:HG3	2.41	0.56
1:P:287:PHE:HB2	1:P:613:LEU:O	2.06	0.56
1:Q:287:PHE:HB2	1:Q:613:LEU:O	2.06	0.56
1:U:288:HIS:CE1	1:U:364:PRO:HG3	2.41	0.56
1:c:657:PRO:HB2	1:s:371:MET:HE2	1.88	0.56
1:e:371:MET:HE2	1:h:657:PRO:HB2	1.88	0.56
1:g:287:PHE:HB2	1:g:613:LEU:O	2.06	0.56
1:j:371:MET:HE2	1:x:657:PRO:HB2	1.88	0.56
1:j:513:ARG:HG3	1:j:513:ARG:O	2.05	0.56
1:k:657:PRO:HB2	1:w:371:MET:HE2	1.88	0.56
1:m:371:MET:HE2	1:s:657:PRO:HB2	1.88	0.56
1:n:287:PHE:HB2	1:n:613:LEU:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:456:THR:O	1:r:497:ASN:ND2	2.31	0.56
1:s:287:PHE:HB2	1:s:613:LEU:O	2.06	0.56
1:v:335:ASN:ND2	1:v:338:SER:HB2	2.21	0.56
1:z:288:HIS:CE1	1:z:364:PRO:HG3	2.41	0.56
1:3:287:PHE:HB2	1:3:613:LEU:O	2.06	0.56
1:3:335:ASN:ND2	1:3:338:SER:HB2	2.21	0.56
1:7:287:PHE:HB2	1:7:613:LEU:O	2.06	0.56
1:A:335:ASN:ND2	1:A:338:SER:HB2	2.21	0.56
1:D:288:HIS:CE1	1:D:364:PRO:HG3	2.41	0.56
1:D:513:ARG:HG3	1:D:513:ARG:O	2.05	0.56
1:E:497:ASN:ND2	1:F:456:THR:O	2.31	0.56
1:H:335:ASN:ND2	1:H:338:SER:HB2	2.21	0.56
1:H:371:MET:HE2	1:I:657:PRO:HB2	1.88	0.56
1:J:371:MET:HE2	1:a:657:PRO:HB2	1.88	0.56
1:K:335:ASN:ND2	1:K:338:SER:HB2	2.21	0.56
1:O:513:ARG:HG3	1:O:513:ARG:O	2.05	0.56
1:Q:288:HIS:CE1	1:Q:364:PRO:HG3	2.41	0.56
1:Q:371:MET:HE2	1:S:657:PRO:HB2	1.88	0.56
1:S:287:PHE:HB2	1:S:613:LEU:O	2.06	0.56
1:c:287:PHE:HB2	1:c:613:LEU:O	2.06	0.56
1:d:288:HIS:CE1	1:d:364:PRO:HG3	2.41	0.56
1:e:287:PHE:HB2	1:e:613:LEU:O	2.06	0.56
1:f:459:ARG:NH2	1:h:553:ASP:OD2	2.32	0.56
1:f:513:ARG:HG3	1:f:513:ARG:O	2.05	0.56
1:n:229:HIS:O	1:n:244:THR:OG1	2.22	0.56
1:o:288:HIS:CE1	1:o:364:PRO:HG3	2.41	0.56
1:u:335:ASN:ND2	1:u:338:SER:HB2	2.21	0.56
1:v:288:HIS:CE1	1:v:364:PRO:HG3	2.41	0.56
1:3:288:HIS:CE1	1:3:364:PRO:HG3	2.41	0.56
1:5:335:ASN:ND2	1:5:338:SER:HB2	2.21	0.56
1:5:433:LEU:HD11	1:5:735:LEU:HD22	1.86	0.56
1:8:513:ARG:HG3	1:8:513:ARG:O	2.05	0.56
1:D:459:ARG:NH2	1:N:553:ASP:OD2	2.30	0.56
1:G:229:HIS:O	1:G:244:THR:OG1	2.23	0.56
1:H:288:HIS:CE1	1:H:364:PRO:HG3	2.41	0.56
1:I:371:MET:HE2	1:J:657:PRO:HB2	1.88	0.56
1:L:335:ASN:ND2	1:L:338:SER:HB2	2.21	0.56
1:P:371:MET:HE2	1:Q:657:PRO:HB2	1.88	0.56
1:Q:335:ASN:ND2	1:Q:338:SER:HB2	2.21	0.56
1:R:287:PHE:HB2	1:R:613:LEU:O	2.06	0.56
1:U:371:MET:HE2	1:e:657:PRO:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:288:HIS:CE1	1:W:364:PRO:HG3	2.41	0.56
1:X:335:ASN:ND2	1:X:338:SER:HB2	2.21	0.56
1:Y:335:ASN:ND2	1:Y:338:SER:HB2	2.21	0.56
1:Y:513:ARG:O	1:Y:513:ARG:HG3	2.05	0.56
1:d:335:ASN:ND2	1:d:338:SER:HB2	2.21	0.56
1:d:513:ARG:O	1:d:513:ARG:HG3	2.05	0.56
1:e:288:HIS:CE1	1:e:364:PRO:HG3	2.41	0.56
1:g:335:ASN:ND2	1:g:338:SER:HB2	2.21	0.56
1:h:335:ASN:ND2	1:h:338:SER:HB2	2.21	0.56
1:i:288:HIS:CE1	1:i:364:PRO:HG3	2.41	0.56
1:n:288:HIS:CE1	1:n:364:PRO:HG3	2.41	0.56
1:o:287:PHE:HB2	1:o:613:LEU:O	2.06	0.56
1:p:287:PHE:HB2	1:p:613:LEU:O	2.06	0.56
1:q:288:HIS:CE1	1:q:364:PRO:HG3	2.41	0.56
1:s:288:HIS:CE1	1:s:364:PRO:HG3	2.41	0.56
1:s:335:ASN:ND2	1:s:338:SER:HB2	2.21	0.56
1:t:288:HIS:CE1	1:t:364:PRO:HG3	2.41	0.56
1:v:371:MET:HE2	1:w:657:PRO:HB2	1.88	0.56
1:x:335:ASN:ND2	1:x:338:SER:HB2	2.21	0.56
1:3:371:MET:HE2	1:8:657:PRO:HB2	1.88	0.56
1:6:335:ASN:ND2	1:6:338:SER:HB2	2.21	0.56
1:D:229:HIS:O	1:D:244:THR:OG1	2.23	0.56
1:D:335:ASN:ND2	1:D:338:SER:HB2	2.21	0.56
1:F:657:PRO:HB2	1:R:371:MET:HE2	1.88	0.56
1:I:335:ASN:ND2	1:I:338:SER:HB2	2.21	0.56
1:M:288:HIS:CE1	1:M:364:PRO:HG3	2.41	0.56
1:M:335:ASN:ND2	1:M:338:SER:HB2	2.21	0.56
1:M:657:PRO:HB2	1:c:371:MET:HE2	1.88	0.56
1:S:335:ASN:ND2	1:S:338:SER:HB2	2.21	0.56
1:U:287:PHE:HB2	1:U:613:LEU:O	2.06	0.56
1:U:335:ASN:ND2	1:U:338:SER:HB2	2.21	0.56
1:V:335:ASN:ND2	1:V:338:SER:HB2	2.21	0.56
1:Z:287:PHE:HB2	1:Z:613:LEU:O	2.06	0.56
1:Z:657:PRO:HB2	1:a:371:MET:HE2	1.88	0.56
1:g:657:PRO:HB2	1:k:371:MET:HE2	1.88	0.56
1:i:287:PHE:HB2	1:i:613:LEU:O	2.06	0.56
1:i:497:ASN:ND2	1:k:456:THR:O	2.32	0.56
1:n:335:ASN:ND2	1:n:338:SER:HB2	2.21	0.56
1:n:513:ARG:HG3	1:n:513:ARG:O	2.05	0.56
1:p:371:MET:HE2	1:q:657:PRO:HB2	1.88	0.56
1:s:430:LEU:HD11	1:s:605:VAL:CG2	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:288:HIS:CE1	1:u:364:PRO:HG3	2.41	0.56
1:y:229:HIS:O	1:y:244:THR:OG1	2.23	0.56
1:1:287:PHE:HB2	1:1:613:LEU:O	2.06	0.56
1:5:287:PHE:HB2	1:5:613:LEU:O	2.06	0.56
1:7:288:HIS:CE1	1:7:364:PRO:HG3	2.41	0.56
1:A:288:HIS:CE1	1:A:364:PRO:HG3	2.41	0.55
1:B:335:ASN:ND2	1:B:338:SER:HB2	2.21	0.55
1:C:288:HIS:CE1	1:C:364:PRO:HG3	2.41	0.55
1:F:335:ASN:ND2	1:F:338:SER:HB2	2.21	0.55
1:H:430:LEU:HD11	1:H:605:VAL:CG2	2.37	0.55
1:N:459:ARG:NH2	1:P:553:ASP:OD2	2.31	0.55
1:Q:430:LEU:HD11	1:Q:605:VAL:CG2	2.37	0.55
1:R:459:ARG:NH2	1:S:553:ASP:OD2	2.31	0.55
1:T:497:ASN:ND2	1:l:456:THR:O	2.32	0.55
1:X:287:PHE:HB2	1:X:613:LEU:O	2.06	0.55
1:Y:288:HIS:CE1	1:Y:364:PRO:HG3	2.41	0.55
1:a:335:ASN:ND2	1:a:338:SER:HB2	2.21	0.55
1:c:335:ASN:ND2	1:c:338:SER:HB2	2.21	0.55
1:c:430:LEU:HD11	1:c:605:VAL:CG2	2.37	0.55
1:c:580:SER:O	1:o:484:ARG:HD3	2.06	0.55
1:f:288:HIS:CE1	1:f:364:PRO:HG3	2.41	0.55
1:i:335:ASN:ND2	1:i:338:SER:HB2	2.21	0.55
1:j:335:ASN:ND2	1:j:338:SER:HB2	2.21	0.55
1:m:456:THR:O	1:n:497:ASN:ND2	2.32	0.55
1:o:335:ASN:ND2	1:o:338:SER:HB2	2.21	0.55
1:o:456:THR:O	1:p:497:ASN:ND2	2.31	0.55
1:q:335:ASN:ND2	1:q:338:SER:HB2	2.21	0.55
1:s:345:ASP:OD1	1:s:346:SER:N	2.31	0.55
1:t:335:ASN:ND2	1:t:338:SER:HB2	2.21	0.55
1:t:580:SER:O	1:u:484:ARG:HD3	2.06	0.55
1:v:430:LEU:HD11	1:v:605:VAL:CG2	2.37	0.55
1:w:335:ASN:ND2	1:w:338:SER:HB2	2.21	0.55
1:x:288:HIS:CE1	1:x:364:PRO:HG3	2.41	0.55
1:8:288:HIS:CE1	1:8:364:PRO:HG3	2.41	0.55
1:E:287:PHE:HB2	1:E:613:LEU:O	2.06	0.55
1:K:371:MET:HE2	1:L:657:PRO:HB2	1.88	0.55
1:K:553:ASP:OD2	1:8:459:ARG:NH2	2.32	0.55
1:L:287:PHE:HB2	1:L:613:LEU:O	2.06	0.55
1:L:371:MET:HE2	1:b:657:PRO:HB2	1.88	0.55
1:N:371:MET:HE2	1:m:657:PRO:HB2	1.88	0.55
1:P:335:ASN:ND2	1:P:338:SER:HB2	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:335:ASN:ND2	1:R:338:SER:HB2	2.21	0.55
1:R:601:LEU:N	1:R:604:MET:SD	2.69	0.55
1:S:430:LEU:HD11	1:S:605:VAL:CG2	2.37	0.55
1:V:229:HIS:O	1:V:244:THR:OG1	2.23	0.55
1:a:229:HIS:O	1:a:244:THR:OG1	2.23	0.55
1:d:430:LEU:HD11	1:d:605:VAL:CG2	2.37	0.55
1:g:229:HIS:O	1:g:244:THR:OG1	2.23	0.55
1:g:288:HIS:CE1	1:g:364:PRO:HG3	2.41	0.55
1:k:513:ARG:HG3	1:k:513:ARG:O	2.05	0.55
1:l:288:HIS:CE1	1:l:364:PRO:HG3	2.41	0.55
1:m:335:ASN:ND2	1:m:338:SER:HB2	2.21	0.55
1:u:657:PRO:HB2	1:5:371:MET:HE2	1.87	0.55
1:w:288:HIS:CE1	1:w:364:PRO:HG3	2.41	0.55
1:w:513:ARG:O	1:w:513:ARG:HG3	2.05	0.55
1:z:430:LEU:HD11	1:z:605:VAL:CG2	2.37	0.55
1:z:459:ARG:NH2	1:1:553:ASP:OD2	2.32	0.55
1:1:335:ASN:ND2	1:1:338:SER:HB2	2.21	0.55
1:3:430:LEU:HD11	1:3:605:VAL:CG2	2.37	0.55
1:4:430:LEU:HD11	1:4:605:VAL:CG2	2.37	0.55
1:5:288:HIS:CE1	1:5:364:PRO:HG3	2.41	0.55
1:5:657:PRO:HB2	1:8:371:MET:HE2	1.88	0.55
1:8:287:PHE:HB2	1:8:613:LEU:O	2.06	0.55
1:I:513:ARG:O	1:I:513:ARG:HG3	2.05	0.55
1:K:229:HIS:O	1:K:244:THR:OG1	2.22	0.55
1:O:580:SER:O	1:m:484:ARG:HD3	2.07	0.55
1:R:657:PRO:HB2	1:V:371:MET:HE2	1.88	0.55
1:T:288:HIS:CE1	1:T:364:PRO:HG3	2.41	0.55
1:T:657:PRO:HB2	1:i:371:MET:HE2	1.88	0.55
1:V:288:HIS:CE1	1:V:364:PRO:HG3	2.41	0.55
1:W:335:ASN:ND2	1:W:338:SER:HB2	2.21	0.55
1:X:288:HIS:CE1	1:X:364:PRO:HG3	2.41	0.55
1:Z:335:ASN:ND2	1:Z:338:SER:HB2	2.21	0.55
1:Z:430:LEU:HD11	1:Z:605:VAL:CG2	2.37	0.55
1:a:288:HIS:CE1	1:a:364:PRO:HG3	2.41	0.55
1:d:287:PHE:HB2	1:d:613:LEU:O	2.06	0.55
1:e:335:ASN:ND2	1:e:338:SER:HB2	2.21	0.55
1:e:430:LEU:HD11	1:e:605:VAL:CG2	2.36	0.55
1:f:287:PHE:HB2	1:f:613:LEU:O	2.06	0.55
1:m:430:LEU:HD11	1:m:605:VAL:CG2	2.36	0.55
1:p:335:ASN:ND2	1:p:338:SER:HB2	2.21	0.55
1:t:287:PHE:HB2	1:t:613:LEU:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:430:LEU:HD11	1:1:605:VAL:CG2	2.37	0.55
1:2:430:LEU:HD11	1:2:605:VAL:CG2	2.37	0.55
1:B:287:PHE:HB2	1:B:613:LEU:O	2.06	0.55
1:B:430:LEU:HD11	1:B:605:VAL:CG2	2.37	0.55
1:I:288:HIS:CE1	1:I:364:PRO:HG3	2.41	0.55
1:J:513:ARG:HG3	1:J:513:ARG:O	2.05	0.55
1:K:288:HIS:CE1	1:K:364:PRO:HG3	2.41	0.55
1:M:430:LEU:HD11	1:M:605:VAL:CG2	2.37	0.55
1:W:287:PHE:HB2	1:W:613:LEU:O	2.06	0.55
1:c:288:HIS:CE1	1:c:364:PRO:HG3	2.41	0.55
1:d:580:SER:O	1:l:484:ARG:HD3	2.07	0.55
1:h:287:PHE:HB2	1:h:613:LEU:O	2.06	0.55
1:h:371:MET:HE2	1:i:657:PRO:HB2	1.88	0.55
1:j:430:LEU:HD11	1:j:605:VAL:CG2	2.37	0.55
1:k:335:ASN:ND2	1:k:338:SER:HB2	2.21	0.55
1:r:287:PHE:HB2	1:r:613:LEU:O	2.06	0.55
1:r:430:LEU:HD11	1:r:605:VAL:CG2	2.37	0.55
1:v:657:PRO:HB2	1:1:371:MET:HE2	1.88	0.55
1:y:288:HIS:CE1	1:y:364:PRO:HG3	2.41	0.55
1:z:513:ARG:HG3	1:z:513:ARG:O	2.05	0.55
1:2:288:HIS:CE1	1:2:364:PRO:HG3	2.41	0.55
1:6:288:HIS:CE1	1:6:364:PRO:HG3	2.41	0.55
1:6:580:SER:O	1:7:484:ARG:HD3	2.07	0.55
1:7:335:ASN:ND2	1:7:338:SER:HB2	2.21	0.55
1:B:288:HIS:CE1	1:B:364:PRO:HG3	2.41	0.55
1:E:288:HIS:CE1	1:E:364:PRO:HG3	2.41	0.55
1:E:430:LEU:HD11	1:E:605:VAL:CG2	2.37	0.55
1:G:288:HIS:CE1	1:G:364:PRO:HG3	2.41	0.55
1:H:513:ARG:HG3	1:H:513:ARG:O	2.05	0.55
1:J:335:ASN:ND2	1:J:338:SER:HB2	2.21	0.55
1:K:287:PHE:HB2	1:K:613:LEU:O	2.06	0.55
1:K:513:ARG:HG3	1:K:513:ARG:O	2.05	0.55
1:L:513:ARG:O	1:L:513:ARG:HG3	2.05	0.55
1:M:287:PHE:HB2	1:M:613:LEU:O	2.06	0.55
1:O:371:MET:HE2	1:P:657:PRO:HB2	1.88	0.55
1:O:657:PRO:HB2	1:d:371:MET:HE2	1.88	0.55
1:P:430:LEU:HD11	1:P:605:VAL:CG2	2.37	0.55
1:Q:345:ASP:OD1	1:Q:346:SER:N	2.31	0.55
1:Q:433:LEU:HD11	1:Q:735:LEU:HD22	1.86	0.55
1:S:371:MET:HE2	1:d:657:PRO:HB2	1.89	0.55
1:Z:513:ARG:HG3	1:Z:513:ARG:O	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:513:ARG:HG3	1:a:513:ARG:O	2.05	0.55
1:b:288:HIS:CE1	1:b:364:PRO:HG3	2.41	0.55
1:d:601:LEU:N	1:d:604:MET:SD	2.69	0.55
1:g:513:ARG:HG3	1:g:513:ARG:O	2.05	0.55
1:h:288:HIS:CE1	1:h:364:PRO:HG3	2.41	0.55
1:h:513:ARG:HG3	1:h:513:ARG:O	2.05	0.55
1:i:513:ARG:HG3	1:i:513:ARG:O	2.05	0.55
1:j:287:PHE:HB2	1:j:613:LEU:O	2.06	0.55
1:q:430:LEU:HD11	1:q:605:VAL:CG2	2.37	0.55
1:r:288:HIS:CE1	1:r:364:PRO:HG3	2.41	0.55
1:s:433:LEU:HD11	1:s:735:LEU:HD22	1.86	0.55
1:v:513:ARG:HG3	1:v:513:ARG:O	2.05	0.55
1:x:580:SER:O	1:y:484:ARG:HD3	2.07	0.55
1:4:288:HIS:CE1	1:4:364:PRO:HG3	2.41	0.55
1:6:287:PHE:HB2	1:6:613:LEU:O	2.06	0.55
1:7:430:LEU:HD11	1:7:605:VAL:CG2	2.37	0.55
1:F:430:LEU:HD11	1:F:605:VAL:CG2	2.37	0.55
1:N:580:SER:O	1:P:484:ARG:HD3	2.07	0.55
1:O:553:ASP:OD2	1:n:459:ARG:NH2	2.31	0.55
1:P:288:HIS:CE1	1:P:364:PRO:HG3	2.41	0.55
1:P:513:ARG:HG3	1:P:513:ARG:O	2.05	0.55
1:Q:229:HIS:O	1:Q:244:THR:OG1	2.23	0.55
1:Q:513:ARG:O	1:Q:513:ARG:HG3	2.05	0.55
1:S:288:HIS:CE1	1:S:364:PRO:HG3	2.41	0.55
1:V:287:PHE:HB2	1:V:613:LEU:O	2.06	0.55
1:g:371:MET:HE2	1:1:657:PRO:HB2	1.88	0.55
1:j:288:HIS:CE1	1:j:364:PRO:HG3	2.41	0.55
1:k:288:HIS:CE1	1:k:364:PRO:HG3	2.41	0.55
1:p:430:LEU:HD11	1:p:605:VAL:CG2	2.36	0.55
1:t:456:THR:O	1:u:497:ASN:ND2	2.31	0.55
1:1:513:ARG:O	1:1:513:ARG:HG3	2.05	0.55
1:2:287:PHE:HB2	1:2:613:LEU:O	2.06	0.55
1:A:499:GLU:OE2	1:A:501:SER:HB3	2.07	0.55
1:A:580:SER:O	1:G:484:ARG:HD3	2.07	0.55
1:D:430:LEU:HD11	1:D:605:VAL:CG2	2.36	0.55
1:G:335:ASN:ND2	1:G:338:SER:HB2	2.21	0.55
1:G:430:LEU:HD11	1:G:605:VAL:CG2	2.37	0.55
1:J:288:HIS:CE1	1:J:364:PRO:HG3	2.41	0.55
1:J:430:LEU:HD11	1:J:605:VAL:CG2	2.37	0.55
1:N:287:PHE:HB2	1:N:613:LEU:O	2.06	0.55
1:P:499:GLU:OE2	1:P:501:SER:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:430:LEU:HD11	1:R:605:VAL:CG2	2.36	0.55
1:S:580:SER:O	1:U:484:ARG:HD3	2.07	0.55
1:a:430:LEU:HD11	1:a:605:VAL:CG2	2.37	0.55
1:b:287:PHE:HB2	1:b:613:LEU:O	2.06	0.55
1:i:430:LEU:HD11	1:i:605:VAL:CG2	2.37	0.55
1:m:288:HIS:CE1	1:m:364:PRO:HG3	2.41	0.55
1:n:430:LEU:HD11	1:n:605:VAL:CG2	2.37	0.55
1:p:601:LEU:N	1:p:604:MET:SD	2.69	0.55
1:r:229:HIS:O	1:r:244:THR:OG1	2.22	0.55
1:u:430:LEU:HD11	1:u:605:VAL:CG2	2.36	0.55
1:x:499:GLU:OE2	1:x:501:SER:HB3	2.07	0.55
1:y:335:ASN:ND2	1:y:338:SER:HB2	2.21	0.55
1:G:499:GLU:OE2	1:G:501:SER:HB3	2.07	0.55
1:L:430:LEU:HD11	1:L:605:VAL:CG2	2.37	0.55
1:O:287:PHE:HB2	1:O:613:LEU:O	2.06	0.55
1:T:287:PHE:HB2	1:T:613:LEU:O	2.06	0.55
1:U:430:LEU:HD11	1:U:605:VAL:CG2	2.37	0.55
1:V:513:ARG:HG3	1:V:513:ARG:O	2.05	0.55
1:X:513:ARG:HG3	1:X:513:ARG:O	2.05	0.55
1:e:499:GLU:OE2	1:e:501:SER:HB3	2.07	0.55
1:g:430:LEU:HD11	1:g:605:VAL:CG2	2.37	0.55
1:m:499:GLU:OE2	1:m:501:SER:HB3	2.07	0.55
1:m:513:ARG:HG3	1:m:513:ARG:O	2.05	0.55
1:q:287:PHE:HB2	1:q:613:LEU:O	2.06	0.55
1:s:229:HIS:O	1:s:244:THR:OG1	2.22	0.55
1:s:513:ARG:HG3	1:s:513:ARG:O	2.05	0.55
1:v:287:PHE:HB2	1:v:613:LEU:O	2.06	0.55
1:y:430:LEU:HD11	1:y:605:VAL:CG2	2.37	0.55
1:y:499:GLU:OE2	1:y:501:SER:HB3	2.07	0.55
1:z:657:PRO:HB2	1:4:371:MET:HE2	1.88	0.55
1:4:335:ASN:ND2	1:4:338:SER:HB2	2.21	0.55
1:7:499:GLU:OE2	1:7:501:SER:HB3	2.07	0.55
1:E:229:HIS:O	1:E:244:THR:OG1	2.23	0.55
1:F:287:PHE:HB2	1:F:613:LEU:O	2.06	0.55
1:H:287:PHE:HB2	1:H:613:LEU:O	2.06	0.55
1:H:456:THR:O	1:W:497:ASN:ND2	2.32	0.55
1:H:499:GLU:OE2	1:H:501:SER:HB3	2.07	0.55
1:O:456:THR:O	1:m:497:ASN:ND2	2.31	0.55
1:T:335:ASN:ND2	1:T:338:SER:HB2	2.21	0.55
1:T:430:LEU:HD11	1:T:605:VAL:CG2	2.37	0.55
1:W:499:GLU:OE2	1:W:501:SER:HB3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:287:PHE:HB2	1:Y:613:LEU:O	2.06	0.55
1:Y:430:LEU:HD11	1:Y:605:VAL:CG2	2.37	0.55
1:Z:484:ARG:HD3	1:3:580:SER:O	2.07	0.55
1:Z:499:GLU:OE2	1:Z:501:SER:HB3	2.07	0.55
1:b:430:LEU:HD11	1:b:605:VAL:CG2	2.37	0.55
1:k:430:LEU:HD11	1:k:605:VAL:CG2	2.37	0.55
1:o:499:GLU:OE2	1:o:501:SER:HB3	2.07	0.55
1:p:657:PRO:HB2	1:6:371:MET:HE2	1.88	0.55
1:r:335:ASN:ND2	1:r:338:SER:HB2	2.21	0.55
1:t:430:LEU:HD11	1:t:605:VAL:CG2	2.37	0.55
1:u:287:PHE:HB2	1:u:613:LEU:O	2.06	0.55
1:v:499:GLU:OE2	1:v:501:SER:HB3	2.07	0.55
1:z:484:ARG:HD3	1:2:580:SER:O	2.07	0.55
1:1:499:GLU:OE2	1:1:501:SER:HB3	2.07	0.55
1:2:335:ASN:ND2	1:2:338:SER:HB2	2.21	0.55
1:4:229:HIS:O	1:4:244:THR:OG1	2.23	0.55
1:4:287:PHE:HB2	1:4:613:LEU:O	2.06	0.55
1:5:513:ARG:HG3	1:5:513:ARG:O	2.05	0.55
1:6:430:LEU:HD11	1:6:605:VAL:CG2	2.36	0.55
1:6:513:ARG:O	1:6:513:ARG:HG3	2.05	0.55
1:B:484:ARG:HD3	1:L:580:SER:O	2.07	0.55
1:D:499:GLU:OE2	1:D:501:SER:HB3	2.07	0.55
1:E:335:ASN:ND2	1:E:338:SER:HB2	2.21	0.55
1:U:499:GLU:OE2	1:U:501:SER:HB3	2.07	0.55
1:V:430:LEU:HD11	1:V:605:VAL:CG2	2.37	0.55
1:W:430:LEU:HD11	1:W:605:VAL:CG2	2.37	0.55
1:X:497:ASN:ND2	1:e:456:THR:O	2.32	0.55
1:X:499:GLU:OE2	1:X:501:SER:HB3	2.07	0.55
1:Y:499:GLU:OE2	1:Y:501:SER:HB3	2.07	0.55
1:Z:288:HIS:CE1	1:Z:364:PRO:HG3	2.41	0.55
1:b:335:ASN:ND2	1:b:338:SER:HB2	2.21	0.55
1:l:335:ASN:ND2	1:l:338:SER:HB2	2.21	0.55
1:l:430:LEU:HD11	1:l:605:VAL:CG2	2.36	0.55
1:o:430:LEU:HD11	1:o:605:VAL:CG2	2.37	0.55
1:t:499:GLU:OE2	1:t:501:SER:HB3	2.07	0.55
1:1:288:HIS:CE1	1:1:364:PRO:HG3	2.41	0.55
1:2:371:MET:HE2	1:3:657:PRO:HB2	1.88	0.55
1:3:369:VAL:HG11	1:8:654:PRO:HG3	1.89	0.55
1:5:499:GLU:OE2	1:5:501:SER:HB3	2.07	0.55
1:8:229:HIS:O	1:8:244:THR:OG1	2.23	0.55
1:A:654:PRO:HG3	1:B:369:VAL:HG11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:335:ASN:ND2	1:C:338:SER:HB2	2.21	0.54
1:C:430:LEU:HD11	1:C:605:VAL:CG2	2.37	0.54
1:D:484:ARG:HD3	1:P:580:SER:O	2.07	0.54
1:G:287:PHE:HB2	1:G:613:LEU:O	2.06	0.54
1:H:580:SER:O	1:W:484:ARG:HD3	2.07	0.54
1:J:287:PHE:HB2	1:J:613:LEU:O	2.06	0.54
1:J:580:SER:O	1:L:484:ARG:HD3	2.07	0.54
1:K:499:GLU:OE2	1:K:501:SER:HB3	2.07	0.54
1:V:580:SER:O	1:e:484:ARG:HD3	2.08	0.54
1:W:580:SER:O	1:Y:484:ARG:HD3	2.07	0.54
1:a:499:GLU:OE2	1:a:501:SER:HB3	2.07	0.54
1:c:553:ASP:OD2	1:p:459:ARG:NH2	2.31	0.54
1:h:499:GLU:OE2	1:h:501:SER:HB3	2.07	0.54
1:m:580:SER:O	1:n:484:ARG:HD3	2.07	0.54
1:n:499:GLU:OE2	1:n:501:SER:HB3	2.07	0.54
1:u:499:GLU:OE2	1:u:501:SER:HB3	2.07	0.54
1:w:287:PHE:HB2	1:w:613:LEU:O	2.06	0.54
1:y:287:PHE:HB2	1:y:613:LEU:O	2.06	0.54
1:2:229:HIS:O	1:2:244:THR:OG1	2.23	0.54
1:3:513:ARG:HG3	1:3:513:ARG:O	2.05	0.54
1:A:287:PHE:HB2	1:A:613:LEU:O	2.06	0.54
1:B:397:TYR:OH	1:C:295:ASP:OD2	2.25	0.54
1:E:499:GLU:OE2	1:E:501:SER:HB3	2.07	0.54
1:I:563:GLU:O	1:I:566:ARG:HG3	2.08	0.54
1:J:563:GLU:O	1:J:566:ARG:HG3	2.08	0.54
1:K:497:ASN:ND2	1:8:456:THR:O	2.31	0.54
1:N:430:LEU:HD11	1:N:605:VAL:CG2	2.37	0.54
1:O:430:LEU:HD11	1:O:605:VAL:CG2	2.37	0.54
1:k:287:PHE:HB2	1:k:613:LEU:O	2.06	0.54
1:r:499:GLU:OE2	1:r:501:SER:HB3	2.07	0.54
1:x:287:PHE:HB2	1:x:613:LEU:O	2.06	0.54
1:6:499:GLU:OE2	1:6:501:SER:HB3	2.07	0.54
1:A:371:MET:HE2	1:E:657:PRO:HB2	1.88	0.54
1:I:287:PHE:HB2	1:I:613:LEU:O	2.06	0.54
1:N:456:THR:O	1:P:497:ASN:ND2	2.31	0.54
1:V:499:GLU:OE2	1:V:501:SER:HB3	2.07	0.54
1:V:657:PRO:HB2	1:W:371:MET:HE2	1.88	0.54
1:Z:563:GLU:O	1:Z:566:ARG:HG3	2.08	0.54
1:b:371:MET:HE2	1:o:657:PRO:HB2	1.88	0.54
1:f:229:HIS:O	1:f:244:THR:OG1	2.23	0.54
1:g:499:GLU:OE2	1:g:501:SER:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:484:ARG:HD3	1:k:580:SER:O	2.08	0.54
1:j:499:GLU:OE2	1:j:501:SER:HB3	2.07	0.54
1:k:563:GLU:O	1:k:566:ARG:HG3	2.08	0.54
1:o:580:SER:O	1:p:484:ARG:HD3	2.07	0.54
1:q:484:ARG:HD3	1:s:580:SER:O	2.07	0.54
1:t:295:ASP:OD2	1:6:397:TYR:OH	2.25	0.54
1:t:371:MET:HE2	1:6:657:PRO:HB2	1.88	0.54
1:w:484:ARG:HD3	1:y:580:SER:O	2.07	0.54
1:1:563:GLU:O	1:1:566:ARG:HG3	2.08	0.54
1:8:335:ASN:ND2	1:8:338:SER:HB2	2.21	0.54
1:B:499:GLU:OE2	1:B:501:SER:HB3	2.07	0.54
1:I:369:VAL:HG11	1:J:654:PRO:HG3	1.90	0.54
1:K:369:VAL:HG11	1:L:654:PRO:HG3	1.89	0.54
1:M:229:HIS:O	1:M:244:THR:OG1	2.23	0.54
1:N:335:ASN:ND2	1:N:338:SER:HB2	2.21	0.54
1:R:563:GLU:O	1:R:566:ARG:HG3	2.08	0.54
1:f:335:ASN:ND2	1:f:338:SER:HB2	2.21	0.54
1:f:484:ARG:HD3	1:g:580:SER:O	2.07	0.54
1:i:580:SER:O	1:j:484:ARG:HD3	2.08	0.54
1:j:369:VAL:HG11	1:x:654:PRO:HG3	1.90	0.54
1:j:580:SER:O	1:k:484:ARG:HD3	2.07	0.54
1:n:689:GLU:OE2	1:n:691:SER:OG	2.26	0.54
1:w:430:LEU:HD11	1:w:605:VAL:CG2	2.37	0.54
1:w:563:GLU:O	1:w:566:ARG:HG3	2.08	0.54
1:y:563:GLU:O	1:y:566:ARG:HG3	2.08	0.54
1:1:580:SER:O	1:2:484:ARG:HD3	2.07	0.54
1:3:484:ARG:HD3	1:4:580:SER:O	2.08	0.54
1:5:484:ARG:HD3	1:7:580:SER:O	2.07	0.54
1:A:430:LEU:HD11	1:A:605:VAL:CG2	2.37	0.54
1:D:580:SER:O	1:N:484:ARG:HD3	2.07	0.54
1:D:701:THR:HG23	1:M:699:GLN:H	1.73	0.54
1:G:563:GLU:O	1:G:566:ARG:HG3	2.08	0.54
1:G:580:SER:O	1:I:484:ARG:HD3	2.07	0.54
1:I:430:LEU:HD11	1:I:605:VAL:CG2	2.36	0.54
1:J:369:VAL:HG11	1:a:654:PRO:HG3	1.90	0.54
1:O:335:ASN:ND2	1:O:338:SER:HB2	2.21	0.54
1:R:484:ARG:HD3	1:U:580:SER:O	2.07	0.54
1:R:689:GLU:HG3	1:R:731:LEU:HD13	1.90	0.54
1:T:371:MET:HE2	1:U:657:PRO:HB2	1.88	0.54
1:d:229:HIS:O	1:d:244:THR:OG1	2.23	0.54
1:g:369:VAL:HG11	1:1:654:PRO:HG3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:448:THR:CG2	1:s:500:TYR:CZ	2.80	0.54
1:x:430:LEU:HD11	1:x:605:VAL:CG2	2.37	0.54
1:z:689:GLU:HG3	1:z:731:LEU:HD13	1.90	0.54
1:3:499:GLU:OE2	1:3:501:SER:HB3	2.07	0.54
1:5:497:ASN:ND2	1:7:456:THR:O	2.32	0.54
1:A:484:ARG:HD3	1:I:580:SER:O	2.07	0.54
1:B:580:SER:O	1:J:484:ARG:HD3	2.07	0.54
1:I:499:GLU:OE2	1:I:501:SER:HB3	2.07	0.54
1:M:371:MET:HE2	1:N:657:PRO:HB2	1.89	0.54
1:N:499:GLU:OE2	1:N:501:SER:HB3	2.07	0.54
1:Q:499:GLU:OE2	1:Q:501:SER:HB3	2.07	0.54
1:b:689:GLU:HG3	1:b:731:LEU:HD13	1.90	0.54
1:j:563:GLU:O	1:j:566:ARG:HG3	2.08	0.54
1:j:657:PRO:HB2	1:l:371:MET:HE2	1.88	0.54
1:q:499:GLU:OE2	1:q:501:SER:HB3	2.07	0.54
1:w:499:GLU:OE2	1:w:501:SER:HB3	2.07	0.54
1:z:499:GLU:OE2	1:z:501:SER:HB3	2.07	0.54
1:3:295:ASP:OD2	1:8:397:TYR:OH	2.26	0.54
1:A:563:GLU:O	1:A:566:ARG:HG3	2.08	0.54
1:D:563:GLU:O	1:D:566:ARG:HG3	2.08	0.54
1:D:657:PRO:HB2	1:E:371:MET:HE2	1.88	0.54
1:F:484:ARG:HD3	1:Q:580:SER:O	2.07	0.54
1:F:499:GLU:OE2	1:F:501:SER:HB3	2.07	0.54
1:G:369:VAL:HG11	1:W:654:PRO:HG3	1.90	0.54
1:H:689:GLU:HG3	1:H:731:LEU:HD13	1.90	0.54
1:K:430:LEU:HD11	1:K:605:VAL:CG2	2.37	0.54
1:K:580:SER:O	1:a:484:ARG:HD3	2.07	0.54
1:O:499:GLU:OE2	1:O:501:SER:HB3	2.07	0.54
1:S:563:GLU:O	1:S:566:ARG:HG3	2.08	0.54
1:W:689:GLU:HG3	1:W:731:LEU:HD13	1.90	0.54
1:Z:580:SER:O	1:4:484:ARG:HD3	2.08	0.54
1:a:456:THR:O	1:8:497:ASN:ND2	2.32	0.54
1:l:287:PHE:HB2	1:l:613:LEU:O	2.06	0.54
1:l:563:GLU:O	1:l:566:ARG:HG3	2.08	0.54
1:l:689:GLU:HG3	1:l:731:LEU:HD13	1.90	0.54
1:p:563:GLU:O	1:p:566:ARG:HG3	2.08	0.54
1:p:689:GLU:HG3	1:p:731:LEU:HD13	1.90	0.54
1:t:484:ARG:HD3	1:v:580:SER:O	2.08	0.54
1:t:614:GLN:HE22	1:t:725:PRO:HA	1.73	0.54
1:t:689:GLU:HG3	1:t:731:LEU:HD13	1.90	0.54
1:v:689:GLU:HG3	1:v:731:LEU:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:689:GLU:HG3	1:3:731:LEU:HD13	1.90	0.54
1:B:563:GLU:O	1:B:566:ARG:HG3	2.08	0.54
1:B:654:PRO:HG3	1:C:369:VAL:HG11	1.90	0.54
1:C:497:ASN:ND2	1:M:456:THR:O	2.30	0.54
1:C:563:GLU:O	1:C:566:ARG:HG3	2.08	0.54
1:H:369:VAL:HG11	1:I:654:PRO:HG3	1.90	0.54
1:M:499:GLU:OE2	1:M:501:SER:HB3	2.07	0.54
1:O:654:PRO:HG3	1:d:369:VAL:HG11	1.90	0.54
1:T:689:GLU:HG3	1:T:731:LEU:HD13	1.90	0.54
1:X:430:LEU:HD11	1:X:605:VAL:CG2	2.37	0.54
1:Y:563:GLU:O	1:Y:566:ARG:HG3	2.08	0.54
1:Y:689:GLU:HG3	1:Y:731:LEU:HD13	1.90	0.54
1:c:563:GLU:O	1:c:566:ARG:HG3	2.08	0.54
1:d:499:GLU:OE2	1:d:501:SER:HB3	2.07	0.54
1:e:689:GLU:HG3	1:e:731:LEU:HD13	1.90	0.54
1:h:430:LEU:HD11	1:h:605:VAL:CG2	2.37	0.54
1:n:563:GLU:O	1:n:566:ARG:HG3	2.08	0.54
1:r:657:PRO:HB2	1:x:371:MET:HE2	1.88	0.54
1:s:499:GLU:OE2	1:s:501:SER:HB3	2.07	0.54
1:v:654:PRO:HG3	1:l:369:VAL:HG11	1.89	0.54
1:x:563:GLU:O	1:x:566:ARG:HG3	2.08	0.54
1:5:430:LEU:HD11	1:5:605:VAL:CG2	2.37	0.54
1:A:614:GLN:HE22	1:A:725:PRO:HA	1.73	0.54
1:C:358:HIS:NE2	1:M:434:MET:HB2	2.23	0.54
1:K:689:GLU:HG3	1:K:731:LEU:HD13	1.90	0.54
1:L:369:VAL:HG11	1:b:654:PRO:HG3	1.90	0.54
1:M:275:TYR:OH	1:c:713:THR:HG21	2.07	0.54
1:M:654:PRO:HG3	1:c:369:VAL:HG11	1.89	0.54
1:N:614:GLN:HE22	1:N:725:PRO:HA	1.73	0.54
1:O:484:ARG:HD3	1:n:580:SER:O	2.07	0.54
1:V:563:GLU:O	1:V:566:ARG:HG3	2.08	0.54
1:W:614:GLN:HE22	1:W:725:PRO:HA	1.73	0.54
1:X:563:GLU:O	1:X:566:ARG:HG3	2.08	0.54
1:b:229:HIS:O	1:b:244:THR:OG1	2.22	0.54
1:g:563:GLU:O	1:g:566:ARG:HG3	2.08	0.54
1:h:689:GLU:HG3	1:h:731:LEU:HD13	1.90	0.54
1:m:689:GLU:HG3	1:m:731:LEU:HD13	1.90	0.54
1:q:500:TYR:CZ	1:s:448:THR:CG2	2.81	0.54
1:r:654:PRO:HG3	1:x:369:VAL:HG11	1.90	0.54
1:s:614:GLN:HE22	1:s:725:PRO:HA	1.73	0.54
1:t:275:TYR:OH	1:y:713:THR:HG21	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:689:GLU:HG3	1:u:731:LEU:HD13	1.90	0.54
1:x:614:GLN:HE22	1:x:725:PRO:HA	1.73	0.54
1:5:563:GLU:O	1:5:566:ARG:HG3	2.08	0.54
1:6:563:GLU:O	1:6:566:ARG:HG3	2.08	0.54
1:7:689:GLU:HG3	1:7:731:LEU:HD13	1.90	0.54
1:A:369:VAL:HG11	1:E:654:PRO:HG3	1.90	0.54
1:C:287:PHE:HB2	1:C:613:LEU:O	2.06	0.54
1:C:499:GLU:OE2	1:C:501:SER:HB3	2.07	0.54
1:C:689:GLU:HG3	1:C:731:LEU:HD13	1.90	0.54
1:F:500:TYR:CZ	1:Q:448:THR:CG2	2.81	0.54
1:F:689:GLU:HG3	1:F:731:LEU:HD13	1.90	0.54
1:K:614:GLN:HE22	1:K:725:PRO:HA	1.73	0.54
1:L:499:GLU:OE2	1:L:501:SER:HB3	2.07	0.54
1:P:563:GLU:O	1:P:566:ARG:HG3	2.08	0.54
1:P:689:GLU:HG3	1:P:731:LEU:HD13	1.90	0.54
1:Q:614:GLN:HE22	1:Q:725:PRO:HA	1.73	0.54
1:R:448:THR:CG2	1:S:500:TYR:CZ	2.81	0.54
1:R:580:SER:O	1:S:484:ARG:HD3	2.08	0.54
1:T:563:GLU:O	1:T:566:ARG:HG3	2.08	0.54
1:Y:295:ASP:OD2	1:4:397:TYR:OH	2.26	0.54
1:Z:654:PRO:HG3	1:a:369:VAL:HG11	1.90	0.54
1:a:563:GLU:O	1:a:566:ARG:HG3	2.08	0.54
1:b:563:GLU:O	1:b:566:ARG:HG3	2.08	0.54
1:c:500:TYR:CZ	1:p:448:THR:CG2	2.81	0.54
1:f:563:GLU:O	1:f:566:ARG:HG3	2.08	0.54
1:g:654:PRO:HG3	1:k:369:VAL:HG11	1.90	0.54
1:h:614:GLN:HE22	1:h:725:PRO:HA	1.73	0.54
1:m:563:GLU:O	1:m:566:ARG:HG3	2.08	0.54
1:n:657:PRO:HB2	1:r:371:MET:HE2	1.88	0.54
1:t:654:PRO:HG3	1:y:369:VAL:HG11	1.90	0.54
1:y:614:GLN:HE22	1:y:725:PRO:HA	1.73	0.54
1:A:689:GLU:HG3	1:A:731:LEU:HD13	1.90	0.53
1:E:484:ARG:HD3	1:F:580:SER:O	2.07	0.53
1:G:614:GLN:HE22	1:G:725:PRO:HA	1.73	0.53
1:G:689:GLU:HG3	1:G:731:LEU:HD13	1.90	0.53
1:H:295:ASP:OD2	1:I:397:TYR:OH	2.26	0.53
1:H:654:PRO:HG3	1:Z:369:VAL:HG11	1.90	0.53
1:J:499:GLU:OE2	1:J:501:SER:HB3	2.07	0.53
1:M:369:VAL:HG11	1:N:654:PRO:HG3	1.90	0.53
1:O:275:TYR:OH	1:d:713:THR:HG21	2.08	0.53
1:O:689:GLU:HG3	1:O:731:LEU:HD13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:229:HIS:O	1:U:244:THR:OG1	2.23	0.53
1:V:484:ARG:HD3	1:X:580:SER:O	2.08	0.53
1:X:369:VAL:HG11	1:Y:654:PRO:HG3	1.88	0.53
1:a:580:SER:O	1:8:484:ARG:HD3	2.08	0.53
1:c:499:GLU:OE2	1:c:501:SER:HB3	2.07	0.53
1:d:699:GLN:H	1:n:701:THR:HG23	1.74	0.53
1:e:563:GLU:O	1:e:566:ARG:HG3	2.08	0.53
1:f:497:ASN:ND2	1:g:456:THR:O	2.32	0.53
1:g:295:ASP:OD2	1:1:397:TYR:OH	2.26	0.53
1:j:713:THR:HG21	1:x:275:TYR:OH	2.08	0.53
1:l:499:GLU:OE2	1:l:501:SER:HB3	2.07	0.53
1:s:563:GLU:O	1:s:566:ARG:HG3	2.08	0.53
1:t:699:GLN:H	1:5:701:THR:HG23	1.73	0.53
1:u:701:THR:HG23	1:1:699:GLN:H	1.74	0.53
1:x:689:GLU:HG3	1:x:731:LEU:HD13	1.90	0.53
1:z:580:SER:O	1:1:484:ARG:HD3	2.08	0.53
1:8:430:LEU:HD11	1:8:605:VAL:CG2	2.36	0.53
1:K:484:ARG:HD3	1:8:580:SER:O	2.08	0.53
1:N:689:GLU:HG3	1:N:731:LEU:HD13	1.90	0.53
1:O:614:GLN:HE22	1:O:725:PRO:HA	1.73	0.53
1:Q:563:GLU:O	1:Q:566:ARG:HG3	2.08	0.53
1:S:499:GLU:OE2	1:S:501:SER:HB3	2.07	0.53
1:T:229:HIS:O	1:T:244:THR:OG1	2.22	0.53
1:X:484:ARG:HD3	1:e:580:SER:O	2.08	0.53
1:Y:229:HIS:O	1:Y:244:THR:OG1	2.23	0.53
1:e:229:HIS:O	1:e:244:THR:OG1	2.22	0.53
1:f:654:PRO:HG3	1:z:369:VAL:HG11	1.90	0.53
1:f:689:GLU:OE2	1:f:691:SER:OG	2.26	0.53
1:h:369:VAL:HG11	1:i:654:PRO:HG3	1.90	0.53
1:h:563:GLU:O	1:h:566:ARG:HG3	2.08	0.53
1:i:499:GLU:OE2	1:i:501:SER:HB3	2.07	0.53
1:j:275:TYR:OH	1:l:713:THR:HG21	2.08	0.53
1:l:654:PRO:HG3	1:n:369:VAL:HG11	1.91	0.53
1:o:563:GLU:O	1:o:566:ARG:HG3	2.08	0.53
1:q:580:SER:O	1:r:484:ARG:HD3	2.07	0.53
1:t:563:GLU:O	1:t:566:ARG:HG3	2.08	0.53
1:u:563:GLU:O	1:u:566:ARG:HG3	2.08	0.53
1:y:689:GLU:HG3	1:y:731:LEU:HD13	1.90	0.53
1:1:614:GLN:HE22	1:1:725:PRO:HA	1.73	0.53
1:4:563:GLU:O	1:4:566:ARG:HG3	2.08	0.53
1:5:580:SER:O	1:6:484:ARG:HD3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:563:GLU:O	1:8:566:ARG:HG3	2.08	0.53
1:E:448:THR:CG2	1:Q:500:TYR:CZ	2.81	0.53
1:M:614:GLN:HE22	1:M:725:PRO:HA	1.73	0.53
1:O:295:ASP:OD2	1:P:397:TYR:OH	2.26	0.53
1:O:563:GLU:O	1:O:566:ARG:HG3	2.08	0.53
1:T:499:GLU:OE2	1:T:501:SER:HB3	2.07	0.53
1:T:654:PRO:HG3	1:i:369:VAL:HG11	1.90	0.53
1:U:563:GLU:O	1:U:566:ARG:HG3	2.08	0.53
1:W:563:GLU:O	1:W:566:ARG:HG3	2.08	0.53
1:a:701:THR:HG23	1:3:699:GLN:H	1.74	0.53
1:b:499:GLU:OE2	1:b:501:SER:HB3	2.07	0.53
1:f:430:LEU:HD11	1:f:605:VAL:CG2	2.37	0.53
1:g:614:GLN:HE22	1:g:725:PRO:HA	1.73	0.53
1:k:499:GLU:OE2	1:k:501:SER:HB3	2.07	0.53
1:q:689:GLU:HG3	1:q:731:LEU:HD13	1.90	0.53
1:r:580:SER:O	1:s:484:ARG:HD3	2.07	0.53
1:t:369:VAL:HG11	1:6:654:PRO:HG3	1.89	0.53
1:v:369:VAL:HG11	1:w:654:PRO:HG3	1.90	0.53
1:2:563:GLU:O	1:2:566:ARG:HG3	2.08	0.53
1:7:563:GLU:O	1:7:566:ARG:HG3	2.08	0.53
1:E:563:GLU:O	1:E:566:ARG:HG3	2.08	0.53
1:E:580:SER:O	1:Q:484:ARG:HD3	2.07	0.53
1:K:563:GLU:O	1:K:566:ARG:HG3	2.08	0.53
1:N:563:GLU:O	1:N:566:ARG:HG3	2.08	0.53
1:Z:614:GLN:HE22	1:Z:725:PRO:HA	1.73	0.53
1:a:614:GLN:HE22	1:a:725:PRO:HA	1.73	0.53
1:c:275:TYR:OH	1:s:713:THR:HG21	2.08	0.53
1:c:484:ARG:HD3	1:p:580:SER:O	2.08	0.53
1:f:499:GLU:OE2	1:f:501:SER:HB3	2.07	0.53
1:k:654:PRO:HG3	1:w:369:VAL:HG11	1.91	0.53
1:o:229:HIS:O	1:o:244:THR:OG1	2.23	0.53
1:w:580:SER:O	1:x:484:ARG:HD3	2.08	0.53
1:x:448:THR:CG2	1:y:500:TYR:CZ	2.81	0.53
1:2:689:GLU:HG3	1:2:731:LEU:HD13	1.90	0.53
1:4:689:GLU:HG3	1:4:731:LEU:HD13	1.90	0.53
1:5:448:THR:CG2	1:6:500:TYR:CZ	2.81	0.53
1:F:614:GLN:HE22	1:F:725:PRO:HA	1.73	0.53
1:F:654:PRO:HG3	1:R:369:VAL:HG11	1.90	0.53
1:H:614:GLN:HE22	1:H:725:PRO:HA	1.73	0.53
1:I:614:GLN:HE22	1:I:725:PRO:HA	1.73	0.53
1:M:295:ASP:OD2	1:N:397:TYR:OH	2.26	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:689:GLU:HG3	1:S:731:LEU:HD13	1.90	0.53
1:T:484:ARG:HD3	1:l:580:SER:O	2.07	0.53
1:T:580:SER:O	1:d:484:ARG:HD3	2.07	0.53
1:Y:369:VAL:HG11	1:4:654:PRO:HG3	1.89	0.53
1:Y:699:GLN:H	1:Z:701:THR:HG23	1.73	0.53
1:c:689:GLU:HG3	1:c:731:LEU:HD13	1.90	0.53
1:d:563:GLU:O	1:d:566:ARG:HG3	2.08	0.53
1:f:456:THR:O	1:h:497:ASN:ND2	2.32	0.53
1:h:229:HIS:O	1:h:244:THR:OG1	2.23	0.53
1:r:563:GLU:O	1:r:566:ARG:HG3	2.08	0.53
1:r:614:GLN:HE22	1:r:725:PRO:HA	1.73	0.53
1:t:713:THR:HG21	1:6:275:TYR:OH	2.08	0.53
1:7:229:HIS:O	1:7:244:THR:OG1	2.23	0.53
1:8:499:GLU:OE2	1:8:501:SER:HB3	2.07	0.53
1:F:563:GLU:O	1:F:566:ARG:HG3	2.08	0.53
1:L:689:GLU:HG3	1:L:731:LEU:HD13	1.90	0.53
1:N:295:ASP:OD2	1:m:397:TYR:OH	2.27	0.53
1:S:614:GLN:HE22	1:S:725:PRO:HA	1.73	0.53
1:S:713:THR:HG21	1:d:275:TYR:OH	2.08	0.53
1:X:614:GLN:HE22	1:X:725:PRO:HA	1.73	0.53
1:X:689:GLU:HG3	1:X:731:LEU:HD13	1.90	0.53
1:c:614:GLN:HE22	1:c:725:PRO:HA	1.73	0.53
1:c:654:PRO:HG3	1:s:369:VAL:HG11	1.90	0.53
1:d:614:GLN:HE22	1:d:725:PRO:HA	1.73	0.53
1:g:484:ARG:HD3	1:h:580:SER:O	2.08	0.53
1:i:689:GLU:HG3	1:i:731:LEU:HD13	1.90	0.53
1:j:699:GLN:H	1:w:701:THR:HG23	1.73	0.53
1:u:229:HIS:O	1:u:244:THR:OG1	2.23	0.53
1:u:580:SER:O	1:v:484:ARG:HD3	2.07	0.53
1:v:614:GLN:HE22	1:v:725:PRO:HA	1.73	0.53
1:w:614:GLN:HE22	1:w:725:PRO:HA	1.73	0.53
1:2:369:VAL:HG11	1:3:654:PRO:HG3	1.90	0.53
1:3:713:THR:HG21	1:8:275:TYR:OH	2.09	0.53
1:5:614:GLN:HE22	1:5:725:PRO:HA	1.73	0.53
1:5:689:GLU:HG3	1:5:731:LEU:HD13	1.90	0.53
1:A:275:TYR:OH	1:B:713:THR:HG21	2.09	0.53
1:E:614:GLN:HE22	1:E:725:PRO:HA	1.73	0.53
1:K:397:TYR:OH	1:7:295:ASP:OD2	2.26	0.53
1:M:563:GLU:O	1:M:566:ARG:HG3	2.08	0.53
1:M:689:GLU:HG3	1:M:731:LEU:HD13	1.90	0.53
1:T:614:GLN:HE22	1:T:725:PRO:HA	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:369:VAL:HG11	1:e:654:PRO:HG3	1.90	0.53
1:b:295:ASP:OD2	1:o:397:TYR:OH	2.27	0.53
1:b:614:GLN:HE22	1:b:725:PRO:HA	1.73	0.53
1:d:689:GLU:HG3	1:d:731:LEU:HD13	1.90	0.53
1:f:580:SER:O	1:h:484:ARG:HD3	2.08	0.53
1:j:689:GLU:HG3	1:j:731:LEU:HD13	1.90	0.53
1:l:275:TYR:OH	1:n:713:THR:HG21	2.09	0.53
1:o:369:VAL:HG11	1:7:654:PRO:HG3	1.90	0.53
1:p:614:GLN:HE22	1:p:725:PRO:HA	1.73	0.53
1:p:701:THR:HG23	1:s:699:GLN:H	1.74	0.53
1:q:614:GLN:HE22	1:q:725:PRO:HA	1.73	0.53
1:r:397:TYR:OH	1:x:295:ASP:OD2	2.26	0.53
1:u:713:THR:HG21	1:2:275:TYR:OH	2.09	0.53
1:v:563:GLU:O	1:v:566:ARG:HG3	2.08	0.53
1:z:614:GLN:HE22	1:z:725:PRO:HA	1.73	0.53
1:2:499:GLU:OE2	1:2:501:SER:HB3	2.07	0.53
1:3:614:GLN:HE22	1:3:725:PRO:HA	1.73	0.53
1:B:657:PRO:HB2	1:C:371:MET:HE2	1.90	0.53
1:D:654:PRO:HG3	1:E:369:VAL:HG11	1.90	0.53
1:D:689:GLU:HG3	1:D:731:LEU:HD13	1.90	0.53
1:H:563:GLU:O	1:H:566:ARG:HG3	2.08	0.53
1:I:689:GLU:HG3	1:I:731:LEU:HD13	1.90	0.53
1:L:295:ASP:OD2	1:b:397:TYR:OH	2.26	0.53
1:P:295:ASP:OD2	1:Q:397:TYR:OH	2.26	0.53
1:R:499:GLU:OE2	1:R:501:SER:HB3	2.07	0.53
1:R:614:GLN:HE22	1:R:725:PRO:HA	1.73	0.53
1:T:295:ASP:OD2	1:U:397:TYR:OH	2.27	0.53
1:U:300:ILE:HD11	1:U:727:GLY:O	2.09	0.53
1:V:397:TYR:OH	1:W:295:ASP:OD2	2.26	0.53
1:X:295:ASP:OD2	1:Y:397:TYR:OH	2.26	0.53
1:Y:614:GLN:HE22	1:Y:725:PRO:HA	1.73	0.53
1:e:295:ASP:OD2	1:h:397:TYR:OH	2.26	0.53
1:o:300:ILE:HD11	1:o:727:GLY:O	2.09	0.53
1:p:499:GLU:OE2	1:p:501:SER:HB3	2.07	0.53
1:q:563:GLU:O	1:q:566:ARG:HG3	2.08	0.53
1:q:701:THR:HG23	1:x:699:GLN:H	1.73	0.53
1:u:300:ILE:HD11	1:u:727:GLY:O	2.09	0.53
1:2:295:ASP:OD2	1:3:397:TYR:OH	2.26	0.53
1:4:499:GLU:OE2	1:4:501:SER:HB3	2.07	0.53
1:B:689:GLU:HG3	1:B:731:LEU:HD13	1.90	0.53
1:C:428:GLN:HE22	1:b:351:PRO:HB3	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:448:THR:CG2	1:I:500:TYR:CZ	2.81	0.53
1:G:713:THR:HG21	1:W:275:TYR:OH	2.09	0.53
1:J:295:ASP:OD2	1:a:397:TYR:OH	2.27	0.53
1:L:563:GLU:O	1:L:566:ARG:HG3	2.08	0.53
1:N:229:HIS:O	1:N:244:THR:OG1	2.23	0.53
1:Q:713:THR:HG21	1:S:275:TYR:OH	2.09	0.53
1:R:300:ILE:HD11	1:R:727:GLY:O	2.09	0.53
1:S:699:GLN:H	1:T:701:THR:HG23	1.74	0.53
1:T:713:THR:HG21	1:U:275:TYR:OH	2.09	0.53
1:U:713:THR:HG21	1:e:275:TYR:OH	2.09	0.53
1:V:500:TYR:CZ	1:X:448:THR:CG2	2.81	0.53
1:W:300:ILE:HD11	1:W:727:GLY:O	2.09	0.53
1:Y:300:ILE:HD11	1:Y:727:GLY:O	2.09	0.53
1:Z:397:TYR:OH	1:a:295:ASP:OD2	2.27	0.53
1:b:701:THR:HG23	1:c:699:GLN:H	1.74	0.53
1:b:713:THR:HG21	1:o:275:TYR:OH	2.09	0.53
1:e:699:GLN:H	1:f:701:THR:HG23	1.74	0.53
1:f:300:ILE:HD11	1:f:727:GLY:O	2.09	0.53
1:f:397:TYR:OH	1:z:295:ASP:OD2	2.27	0.53
1:g:689:GLU:HG3	1:g:731:LEU:HD13	1.90	0.53
1:g:699:GLN:H	1:z:701:THR:HG23	1.73	0.53
1:i:614:GLN:HE22	1:i:725:PRO:HA	1.73	0.53
1:j:654:PRO:HG3	1:l:369:VAL:HG11	1.91	0.53
1:p:369:VAL:HG11	1:q:654:PRO:HG3	1.91	0.53
1:w:500:TYR:CZ	1:y:448:THR:CG2	2.82	0.53
1:z:563:GLU:O	1:z:566:ARG:HG3	2.08	0.53
1:z:654:PRO:HG3	1:4:369:VAL:HG11	1.90	0.53
1:z:689:GLU:OE2	1:z:691:SER:OG	2.26	0.53
1:8:300:ILE:HD11	1:8:727:GLY:O	2.09	0.53
1:C:434:MET:HB2	1:b:358:HIS:NE2	2.24	0.53
1:L:614:GLN:HE22	1:L:725:PRO:HA	1.73	0.53
1:R:500:TYR:CZ	1:U:448:THR:CG2	2.81	0.53
1:S:295:ASP:OD2	1:d:397:TYR:OH	2.26	0.53
1:V:275:TYR:OH	1:W:713:THR:HG21	2.09	0.53
1:V:300:ILE:HD11	1:V:727:GLY:O	2.09	0.53
1:a:689:GLU:HG3	1:a:731:LEU:HD13	1.90	0.53
1:n:654:PRO:HG3	1:r:369:VAL:HG11	1.90	0.53
1:n:689:GLU:HG3	1:n:731:LEU:HD13	1.90	0.53
1:o:713:THR:HG21	1:7:275:TYR:OH	2.09	0.53
1:t:300:ILE:HD11	1:t:727:GLY:O	2.09	0.53
1:u:295:ASP:OD2	1:2:397:TYR:OH	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:614:GLN:HE22	1:u:725:PRO:HA	1.73	0.53
1:v:397:TYR:OH	1:1:295:ASP:OD2	2.26	0.53
1:w:689:GLU:HG3	1:w:731:LEU:HD13	1.90	0.53
1:4:614:GLN:HE22	1:4:725:PRO:HA	1.73	0.53
1:6:300:ILE:HD11	1:6:727:GLY:O	2.09	0.53
1:8:614:GLN:HE22	1:8:725:PRO:HA	1.73	0.53
1:A:295:ASP:OD2	1:E:397:TYR:OH	2.26	0.52
1:H:300:ILE:HD11	1:H:727:GLY:O	2.09	0.52
1:K:295:ASP:OD2	1:L:397:TYR:OH	2.26	0.52
1:R:275:TYR:OH	1:V:713:THR:HG21	2.09	0.52
1:S:369:VAL:HG11	1:d:654:PRO:HG3	1.91	0.52
1:V:614:GLN:HE22	1:V:725:PRO:HA	1.73	0.52
1:V:654:PRO:HG3	1:W:369:VAL:HG11	1.90	0.52
1:V:689:GLU:HG3	1:V:731:LEU:HD13	1.90	0.52
1:W:699:GLN:H	1:X:701:THR:HG23	1.75	0.52
1:X:275:TYR:OH	1:f:713:THR:HG21	2.10	0.52
1:X:300:ILE:HD11	1:X:727:GLY:O	2.09	0.52
1:f:614:GLN:HE22	1:f:725:PRO:HA	1.73	0.52
1:g:397:TYR:OH	1:k:295:ASP:OD2	2.27	0.52
1:h:699:GLN:H	1:k:701:THR:HG23	1.74	0.52
1:k:614:GLN:HE22	1:k:725:PRO:HA	1.73	0.52
1:m:295:ASP:OD2	1:s:397:TYR:OH	2.27	0.52
1:p:275:TYR:OH	1:6:713:THR:HG21	2.09	0.52
1:p:300:ILE:HD11	1:p:727:GLY:O	2.09	0.52
1:v:275:TYR:OH	1:1:713:THR:HG21	2.09	0.52
1:v:295:ASP:OD2	1:w:397:TYR:OH	2.27	0.52
1:v:300:ILE:HD11	1:v:727:GLY:O	2.09	0.52
1:y:300:ILE:HD11	1:y:727:GLY:O	2.09	0.52
1:3:563:GLU:O	1:3:566:ARG:HG3	2.08	0.52
1:6:689:GLU:HG3	1:6:731:LEU:HD13	1.90	0.52
1:A:397:TYR:OH	1:B:295:ASP:OD2	2.26	0.52
1:A:448:THR:CG2	1:G:500:TYR:CZ	2.81	0.52
1:E:500:TYR:CZ	1:F:448:THR:CG2	2.81	0.52
1:F:397:TYR:OH	1:R:295:ASP:OD2	2.27	0.52
1:G:300:ILE:HD11	1:G:727:GLY:O	2.09	0.52
1:H:484:ARG:HD3	1:Y:580:SER:O	2.08	0.52
1:J:614:GLN:HE22	1:J:725:PRO:HA	1.73	0.52
1:K:300:ILE:HD11	1:K:727:GLY:O	2.09	0.52
1:L:713:THR:HG21	1:b:275:TYR:OH	2.09	0.52
1:N:300:ILE:HD11	1:N:727:GLY:O	2.09	0.52
1:O:300:ILE:HD11	1:O:727:GLY:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:300:ILE:HD11	1:S:727:GLY:O	2.09	0.52
1:Z:300:ILE:HD11	1:Z:727:GLY:O	2.09	0.52
1:f:275:TYR:OH	1:z:713:THR:HG21	2.10	0.52
1:h:300:ILE:HD11	1:h:727:GLY:O	2.09	0.52
1:i:563:GLU:O	1:i:566:ARG:HG3	2.08	0.52
1:j:229:HIS:O	1:j:244:THR:OG1	2.23	0.52
1:j:300:ILE:HD11	1:j:727:GLY:O	2.09	0.52
1:j:614:GLN:HE22	1:j:725:PRO:HA	1.73	0.52
1:m:300:ILE:HD11	1:m:727:GLY:O	2.09	0.52
1:n:614:GLN:HE22	1:n:725:PRO:HA	1.73	0.52
1:q:448:THR:CG2	1:r:500:TYR:CZ	2.81	0.52
1:1:300:ILE:HD11	1:1:727:GLY:O	2.09	0.52
1:2:614:GLN:HE22	1:2:725:PRO:HA	1.73	0.52
1:5:275:TYR:OH	1:8:713:THR:HG21	2.10	0.52
1:5:300:ILE:HD11	1:5:727:GLY:O	2.09	0.52
1:B:300:ILE:HD11	1:B:727:GLY:O	2.09	0.52
1:D:300:ILE:HD11	1:D:727:GLY:O	2.09	0.52
1:F:369:VAL:HG11	1:G:654:PRO:HG3	1.90	0.52
1:G:701:THR:HG23	1:H:699:GLN:H	1.74	0.52
1:J:229:HIS:O	1:J:244:THR:OG1	2.23	0.52
1:O:229:HIS:O	1:O:244:THR:OG1	2.23	0.52
1:O:369:VAL:HG11	1:P:654:PRO:HG3	1.90	0.52
1:O:397:TYR:OH	1:d:295:ASP:OD2	2.26	0.52
1:P:300:ILE:HD11	1:P:727:GLY:O	2.09	0.52
1:Q:300:ILE:HD11	1:Q:727:GLY:O	2.09	0.52
1:Q:369:VAL:HG11	1:S:654:PRO:HG3	1.91	0.52
1:Q:699:GLN:H	1:R:701:THR:HG23	1.75	0.52
1:T:275:TYR:OH	1:i:713:THR:HG21	2.09	0.52
1:Y:713:THR:HG21	1:4:275:TYR:OH	2.10	0.52
1:b:689:GLU:OE2	1:b:691:SER:OG	2.26	0.52
1:c:300:ILE:HD11	1:c:727:GLY:O	2.09	0.52
1:f:689:GLU:HG3	1:f:731:LEU:HD13	1.90	0.52
1:j:295:ASP:OD2	1:x:397:TYR:OH	2.26	0.52
1:n:397:TYR:OH	1:r:295:ASP:OD2	2.27	0.52
1:r:275:TYR:OH	1:x:713:THR:HG21	2.09	0.52
1:t:397:TYR:OH	1:y:295:ASP:OD2	2.26	0.52
1:z:448:THR:CG2	1:1:500:TYR:CZ	2.81	0.52
1:6:614:GLN:HE22	1:6:725:PRO:HA	1.73	0.52
1:8:689:GLU:HG3	1:8:731:LEU:HD13	1.90	0.52
1:B:229:HIS:O	1:B:244:THR:OG1	2.23	0.52
1:B:614:GLN:HE22	1:B:725:PRO:HA	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:689:GLU:OE2	1:B:691:SER:OG	2.26	0.52
1:C:275:TYR:OH	1:D:713:THR:HG21	2.09	0.52
1:D:614:GLN:HE22	1:D:725:PRO:HA	1.73	0.52
1:G:295:ASP:OD2	1:W:397:TYR:OH	2.27	0.52
1:H:275:TYR:OH	1:Z:713:THR:HG21	2.09	0.52
1:H:713:THR:HG21	1:I:275:TYR:OH	2.09	0.52
1:I:713:THR:HG21	1:J:275:TYR:OH	2.09	0.52
1:P:614:GLN:HE22	1:P:725:PRO:HA	1.73	0.52
1:T:689:GLU:OE2	1:T:691:SER:OG	2.26	0.52
1:X:713:THR:HG21	1:Y:275:TYR:OH	2.09	0.52
1:Z:500:TYR:CZ	1:3:448:THR:CG2	2.81	0.52
1:e:614:GLN:HE22	1:e:725:PRO:HA	1.73	0.52
1:i:448:THR:CG2	1:j:500:TYR:CZ	2.81	0.52
1:k:229:HIS:O	1:k:244:THR:OG1	2.23	0.52
1:k:689:GLU:HG3	1:k:731:LEU:HD13	1.90	0.52
1:l:614:GLN:HE22	1:l:725:PRO:HA	1.73	0.52
1:n:300:ILE:HD11	1:n:727:GLY:O	2.09	0.52
1:o:614:GLN:HE22	1:o:725:PRO:HA	1.73	0.52
1:s:300:ILE:HD11	1:s:727:GLY:O	2.09	0.52
1:u:397:TYR:OH	1:5:295:ASP:OD2	2.27	0.52
1:x:526:HIS:HB2	1:x:530:GLU:HB2	1.92	0.52
1:z:397:TYR:OH	1:4:295:ASP:OD2	2.27	0.52
1:7:614:GLN:HE22	1:7:725:PRO:HA	1.73	0.52
1:A:526:HIS:HB2	1:A:530:GLU:HB2	1.92	0.52
1:C:614:GLN:HE22	1:C:725:PRO:HA	1.73	0.52
1:D:397:TYR:OH	1:E:295:ASP:OD2	2.27	0.52
1:E:300:ILE:HD11	1:E:727:GLY:O	2.09	0.52
1:H:397:TYR:OH	1:Z:295:ASP:OD2	2.27	0.52
1:J:300:ILE:HD11	1:J:727:GLY:O	2.09	0.52
1:J:689:GLU:HG3	1:J:731:LEU:HD13	1.90	0.52
1:J:701:THR:HG23	1:K:699:GLN:H	1.74	0.52
1:K:275:TYR:OH	1:7:713:THR:HG21	2.09	0.52
1:K:526:HIS:HB2	1:K:530:GLU:HB2	1.92	0.52
1:K:654:PRO:HG3	1:7:369:VAL:HG11	1.90	0.52
1:K:713:THR:HG21	1:L:275:TYR:OH	2.09	0.52
1:L:526:HIS:HB2	1:L:530:GLU:HB2	1.92	0.52
1:M:484:ARG:HD3	1:b:580:SER:O	2.08	0.52
1:P:369:VAL:HG11	1:Q:654:PRO:HG3	1.90	0.52
1:U:614:GLN:HE22	1:U:725:PRO:HA	1.73	0.52
1:g:713:THR:HG21	1:1:275:TYR:OH	2.09	0.52
1:i:526:HIS:HB2	1:i:530:GLU:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:397:TYR:OH	1:l:295:ASP:OD2	2.26	0.52
1:l:229:HIS:O	1:l:244:THR:OG1	2.23	0.52
1:l:397:TYR:OH	1:n:295:ASP:OD2	2.27	0.52
1:m:614:GLN:HE22	1:m:725:PRO:HA	1.73	0.52
1:m:713:THR:HG21	1:s:275:TYR:OH	2.09	0.52
1:r:300:ILE:HD11	1:r:727:GLY:O	2.09	0.52
1:u:369:VAL:HG11	1:2:654:PRO:HG3	1.90	0.52
1:v:699:GLN:H	1:y:701:THR:HG23	1.75	0.52
1:z:300:ILE:HD11	1:z:727:GLY:O	2.09	0.52
1:3:300:ILE:HD11	1:3:727:GLY:O	2.09	0.52
1:5:654:PRO:HG3	1:8:369:VAL:HG11	1.91	0.52
1:D:275:TYR:OH	1:E:713:THR:HG21	2.09	0.52
1:H:526:HIS:HB2	1:H:530:GLU:HB2	1.92	0.52
1:O:713:THR:HG21	1:P:275:TYR:OH	2.09	0.52
1:T:397:TYR:OH	1:i:295:ASP:OD2	2.27	0.52
1:k:300:ILE:HD11	1:k:727:GLY:O	2.09	0.52
1:m:369:VAL:HG11	1:s:654:PRO:HG3	1.90	0.52
1:o:701:THR:HG23	1:6:699:GLN:H	1.74	0.52
1:p:397:TYR:OH	1:6:295:ASP:OD2	2.26	0.52
1:q:713:THR:HG21	1:y:275:TYR:OH	2.09	0.52
1:u:654:PRO:HG3	1:5:369:VAL:HG11	1.90	0.52
1:v:526:HIS:HB2	1:v:530:GLU:HB2	1.92	0.52
1:A:713:THR:HG21	1:E:275:TYR:OH	2.09	0.52
1:B:449:ASN:HA	1:B:459:ARG:H	1.75	0.52
1:E:689:GLU:HG3	1:E:731:LEU:HD13	1.90	0.52
1:I:300:ILE:HD11	1:I:727:GLY:O	2.09	0.52
1:M:449:ASN:HA	1:M:459:ARG:H	1.75	0.52
1:N:369:VAL:HG11	1:m:654:PRO:HG3	1.91	0.52
1:Q:295:ASP:OD2	1:S:397:TYR:OH	2.27	0.52
1:Q:689:GLU:HG3	1:Q:731:LEU:HD13	1.90	0.52
1:S:449:ASN:HA	1:S:459:ARG:H	1.75	0.52
1:T:526:HIS:HB2	1:T:530:GLU:HB2	1.92	0.52
1:U:689:GLU:HG3	1:U:731:LEU:HD13	1.90	0.52
1:X:654:PRO:HG3	1:f:369:VAL:HG11	1.90	0.52
1:Z:526:HIS:HB2	1:Z:530:GLU:HB2	1.92	0.52
1:c:526:HIS:HB2	1:c:530:GLU:HB2	1.92	0.52
1:h:526:HIS:HB2	1:h:530:GLU:HB2	1.92	0.52
1:i:300:ILE:HD11	1:i:727:GLY:O	2.09	0.52
1:i:701:THR:HG23	1:l:699:GLN:H	1.74	0.52
1:p:295:ASP:OD2	1:q:397:TYR:OH	2.27	0.52
1:s:689:GLU:HG3	1:s:731:LEU:HD13	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:526:HIS:HB2	1:y:530:GLU:HB2	1.92	0.52
1:l:526:HIS:HB2	1:l:530:GLU:HB2	1.92	0.52
1:2:300:ILE:HD11	1:2:727:GLY:O	2.09	0.52
1:2:713:THR:HG21	1:3:275:TYR:OH	2.09	0.52
1:3:526:HIS:HB2	1:3:530:GLU:HB2	1.92	0.52
1:B:234:TRP:CD1	1:B:298[B]:ARG:NH1	2.78	0.52
1:B:500:TYR:CZ	1:L:448:THR:CG2	2.81	0.52
1:D:449:ASN:HA	1:D:459:ARG:H	1.75	0.52
1:F:295:ASP:OD2	1:G:397:TYR:OH	2.27	0.52
1:G:526:HIS:HB2	1:G:530:GLU:HB2	1.92	0.52
1:H:449:ASN:HA	1:H:459:ARG:H	1.75	0.52
1:M:713:THR:HG21	1:N:275:TYR:OH	2.10	0.52
1:T:300:ILE:HD11	1:T:727:GLY:O	2.09	0.52
1:Y:449:ASN:HA	1:Y:459:ARG:H	1.75	0.52
1:b:526:HIS:HB2	1:b:530:GLU:HB2	1.92	0.52
1:d:449:ASN:HA	1:d:459:ARG:H	1.75	0.52
1:e:449:ASN:HA	1:e:459:ARG:H	1.75	0.52
1:i:699:GLN:H	1:l:701:THR:HG23	1.75	0.52
1:j:449:ASN:HA	1:j:459:ARG:H	1.75	0.52
1:k:275:TYR:OH	1:w:713:THR:HG21	2.10	0.52
1:n:275:TYR:OH	1:r:713:THR:HG21	2.09	0.52
1:o:689:GLU:HG3	1:o:731:LEU:HD13	1.90	0.52
1:q:234:TRP:CD1	1:q:298[B]:ARG:NH1	2.78	0.52
1:u:449:ASN:HA	1:u:459:ARG:H	1.75	0.52
1:v:449:ASN:HA	1:v:459:ARG:H	1.75	0.52
1:w:300:ILE:HD11	1:w:727:GLY:O	2.09	0.52
1:y:449:ASN:HA	1:y:459:ARG:H	1.75	0.52
1:z:526:HIS:HB2	1:z:530:GLU:HB2	1.92	0.52
1:A:449:ASN:HA	1:A:459:ARG:H	1.75	0.52
1:A:699:GLN:H	1:F:701:THR:HG23	1.74	0.52
1:C:229:HIS:O	1:C:244:THR:OG1	2.23	0.52
1:D:234:TRP:CD1	1:D:298[B]:ARG:NH1	2.78	0.52
1:F:713:THR:HG21	1:G:275:TYR:OH	2.09	0.52
1:G:449:ASN:HA	1:G:459:ARG:H	1.75	0.52
1:H:234:TRP:CD1	1:H:298[B]:ARG:NH1	2.78	0.52
1:J:449:ASN:HA	1:J:459:ARG:H	1.75	0.52
1:L:234:TRP:CD1	1:L:298[B]:ARG:NH1	2.78	0.52
1:M:358:HIS:NE2	1:b:434:MET:HB2	2.25	0.52
1:M:397:TYR:OH	1:c:295:ASP:OD2	2.26	0.52
1:N:713:THR:HG21	1:m:275:TYR:OH	2.09	0.52
1:R:234:TRP:CD1	1:R:298[B]:ARG:NH1	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:526:HIS:HB2	1:S:530:GLU:HB2	1.92	0.52
1:a:300:ILE:HD11	1:a:727:GLY:O	2.09	0.52
1:b:300:ILE:HD11	1:b:727:GLY:O	2.09	0.52
1:b:369:VAL:HG11	1:o:654:PRO:HG3	1.90	0.52
1:c:449:ASN:HA	1:c:459:ARG:H	1.75	0.52
1:e:300:ILE:HD11	1:e:727:GLY:O	2.09	0.52
1:e:369:VAL:HG11	1:h:654:PRO:HG3	1.90	0.52
1:h:713:THR:HG21	1:i:275:TYR:OH	2.09	0.52
1:j:234:TRP:CD1	1:j:298[B]:ARG:NH1	2.78	0.52
1:n:234:TRP:CD1	1:n:298[B]:ARG:NH1	2.78	0.52
1:n:449:ASN:HA	1:n:459:ARG:H	1.75	0.52
1:p:654:PRO:HG3	1:6:369:VAL:HG11	1.90	0.52
1:r:689:GLU:HG3	1:r:731:LEU:HD13	1.90	0.52
1:s:234:TRP:CD1	1:s:298[B]:ARG:NH1	2.78	0.52
1:v:229:HIS:O	1:v:244:THR:OG1	2.22	0.52
1:v:234:TRP:CD1	1:v:298[B]:ARG:NH1	2.78	0.52
1:x:300:ILE:HD11	1:x:727:GLY:O	2.09	0.52
1:x:449:ASN:HA	1:x:459:ARG:H	1.75	0.52
1:2:449:ASN:HA	1:2:459:ARG:H	1.75	0.52
1:4:300:ILE:HD11	1:4:727:GLY:O	2.09	0.52
1:7:300:ILE:HD11	1:7:727:GLY:O	2.09	0.52
1:7:449:ASN:HA	1:7:459:ARG:H	1.75	0.52
1:7:701:THR:HG23	1:8:699:GLN:H	1.75	0.52
1:A:234:TRP:CD1	1:A:298[B]:ARG:NH1	2.78	0.52
1:A:300:ILE:HD11	1:A:727:GLY:O	2.09	0.52
1:F:234:TRP:CD1	1:F:298[B]:ARG:NH1	2.78	0.52
1:H:229:HIS:O	1:H:244:THR:OG1	2.23	0.52
1:L:300:ILE:HD11	1:L:727:GLY:O	2.09	0.52
1:Q:234:TRP:CD1	1:Q:298[B]:ARG:NH1	2.78	0.52
1:T:369:VAL:HG11	1:U:654:PRO:HG3	1.91	0.52
1:U:701:THR:HG23	1:V:699:GLN:H	1.75	0.52
1:V:234:TRP:CD1	1:V:298[B]:ARG:NH1	2.78	0.52
1:W:434:MET:HB2	1:Y:358:HIS:NE2	2.25	0.52
1:W:526:HIS:HB2	1:W:530:GLU:HB2	1.92	0.52
1:d:448:THR:CG2	1:l:500:TYR:CZ	2.81	0.52
1:e:713:THR:HG21	1:h:275:TYR:OH	2.09	0.52
1:h:295:ASP:OD2	1:i:397:TYR:OH	2.27	0.52
1:i:234:TRP:CD1	1:i:298[B]:ARG:NH1	2.78	0.52
1:k:449:ASN:HA	1:k:459:ARG:H	1.75	0.52
1:l:234:TRP:CD1	1:l:298[B]:ARG:NH1	2.78	0.52
1:p:234:TRP:CD1	1:p:298[B]:ARG:NH1	2.78	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:526:HIS:HB2	1:t:530:GLU:HB2	1.92	0.52
1:v:713:THR:HG21	1:w:275:TYR:OH	2.10	0.52
1:x:234:TRP:CD1	1:x:298[B]:ARG:NH1	2.78	0.52
1:4:449:ASN:HA	1:4:459:ARG:H	1.75	0.52
1:5:351:PRO:HB3	1:7:428:GLN:HE22	1.75	0.52
1:6:234:TRP:CD1	1:6:298[B]:ARG:NH1	2.78	0.52
1:C:234:TRP:CD1	1:C:298[B]:ARG:NH1	2.78	0.51
1:F:275:TYR:OH	1:R:713:THR:HG21	2.09	0.51
1:G:234:TRP:CD1	1:G:298[B]:ARG:NH1	2.78	0.51
1:N:449:ASN:HA	1:N:459:ARG:H	1.75	0.51
1:P:713:THR:HG21	1:Q:275:TYR:OH	2.09	0.51
1:R:358:HIS:NE2	1:U:434:MET:HB2	2.25	0.51
1:R:397:TYR:OH	1:V:295:ASP:OD2	2.27	0.51
1:R:654:PRO:HG3	1:V:369:VAL:HG11	1.90	0.51
1:S:234:TRP:CD1	1:S:298[B]:ARG:NH1	2.78	0.51
1:U:699:GLN:H	1:V:701:THR:HG23	1.75	0.51
1:W:234:TRP:CD1	1:W:298[B]:ARG:NH1	2.78	0.51
1:e:526:HIS:HB2	1:e:530:GLU:HB2	1.92	0.51
1:g:275:TYR:OH	1:k:713:THR:HG21	2.09	0.51
1:g:300:ILE:HD11	1:g:727:GLY:O	2.09	0.51
1:g:449:ASN:HA	1:g:459:ARG:H	1.75	0.51
1:i:358:HIS:NE2	1:k:434:MET:HB2	2.25	0.51
1:k:527:LYS:HG2	1:k:530:GLU:HG3	1.93	0.51
1:m:526:HIS:HB2	1:m:530:GLU:HB2	1.92	0.51
1:t:234:TRP:CD1	1:t:298[B]:ARG:NH1	2.78	0.51
1:z:449:ASN:HA	1:z:459:ARG:H	1.75	0.51
1:3:449:ASN:HA	1:3:459:ARG:H	1.75	0.51
1:4:234:TRP:CD1	1:4:298[B]:ARG:NH1	2.78	0.51
1:5:229:HIS:O	1:5:244:THR:OG1	2.23	0.51
1:7:304:TRP:CE2	1:7:689:GLU:HG2	2.46	0.51
1:B:275:TYR:OH	1:C:713:THR:HG21	2.11	0.51
1:B:527:LYS:HG2	1:B:530:GLU:HG3	1.93	0.51
1:E:304:TRP:CE2	1:E:689:GLU:HG2	2.46	0.51
1:I:295:ASP:OD2	1:J:397:TYR:OH	2.26	0.51
1:J:527:LYS:HG2	1:J:530:GLU:HG3	1.93	0.51
1:K:234:TRP:CD1	1:K:298[B]:ARG:NH1	2.78	0.51
1:O:449:ASN:HA	1:O:459:ARG:H	1.75	0.51
1:P:449:ASN:HA	1:P:459:ARG:H	1.75	0.51
1:P:526:HIS:HB2	1:P:530:GLU:HB2	1.92	0.51
1:V:449:ASN:HA	1:V:459:ARG:H	1.75	0.51
1:W:304:TRP:CE2	1:W:689:GLU:HG2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:701:THR:HG23	1:X:699:GLN:H	1.75	0.51
1:X:304:TRP:CE2	1:X:689:GLU:HG2	2.46	0.51
1:X:358:HIS:NE2	1:e:434:MET:HB2	2.26	0.51
1:a:449:ASN:HA	1:a:459:ARG:H	1.75	0.51
1:c:234:TRP:CD1	1:c:298[B]:ARG:NH1	2.78	0.51
1:e:304:TRP:CE2	1:e:689:GLU:HG2	2.46	0.51
1:h:234:TRP:CD1	1:h:298[B]:ARG:NH1	2.78	0.51
1:i:527:LYS:HG2	1:i:530:GLU:HG3	1.93	0.51
1:j:527:LYS:HG2	1:j:530:GLU:HG3	1.93	0.51
1:l:526:HIS:HB2	1:l:530:GLU:HB2	1.92	0.51
1:o:234:TRP:CD1	1:o:298[B]:ARG:NH1	2.78	0.51
1:o:434:MET:HB2	1:p:358:HIS:NE2	2.26	0.51
1:q:295:ASP:OD2	1:y:397:TYR:OH	2.27	0.51
1:q:369:VAL:HG11	1:y:654:PRO:HG3	1.91	0.51
1:r:449:ASN:HA	1:r:459:ARG:H	1.75	0.51
1:t:304:TRP:CE2	1:t:689:GLU:HG2	2.46	0.51
1:u:275:TYR:OH	1:5:713:THR:HG21	2.09	0.51
1:u:526:HIS:HB2	1:u:530:GLU:HB2	1.92	0.51
1:y:234:TRP:CD1	1:y:298[B]:ARG:NH1	2.78	0.51
1:z:275:TYR:OH	1:4:713:THR:HG21	2.10	0.51
1:z:358:HIS:NE2	1:2:434:MET:HB2	2.25	0.51
1:2:234:TRP:CD1	1:2:298[B]:ARG:NH1	2.78	0.51
1:2:304:TRP:CE2	1:2:689:GLU:HG2	2.46	0.51
1:5:304:TRP:CE2	1:5:689:GLU:HG2	2.46	0.51
1:C:699:GLN:H	1:L:701:THR:HG23	1.74	0.51
1:D:304:TRP:CE2	1:D:689:GLU:HG2	2.46	0.51
1:E:449:ASN:HA	1:E:459:ARG:H	1.75	0.51
1:E:526:HIS:HB2	1:E:530:GLU:HB2	1.92	0.51
1:G:434:MET:HB2	1:I:358:HIS:NE2	2.25	0.51
1:J:304:TRP:CE2	1:J:689:GLU:HG2	2.46	0.51
1:L:527:LYS:HG2	1:L:530:GLU:HG3	1.93	0.51
1:O:234:TRP:CD1	1:O:298[B]:ARG:NH1	2.78	0.51
1:O:526:HIS:HB2	1:O:530:GLU:HB2	1.92	0.51
1:U:234:TRP:CD1	1:U:298[B]:ARG:NH1	2.78	0.51
1:X:397:TYR:OH	1:f:295:ASP:OD2	2.27	0.51
1:Y:526:HIS:HB2	1:Y:530:GLU:HB2	1.92	0.51
1:a:234:TRP:CD1	1:a:298[B]:ARG:NH1	2.78	0.51
1:b:527:LYS:HG2	1:b:530:GLU:HG3	1.93	0.51
1:e:701:THR:HG23	1:f:699:GLN:H	1.76	0.51
1:f:434:MET:HB2	1:h:358:HIS:NE2	2.25	0.51
1:k:526:HIS:HB2	1:k:530:GLU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:449:ASN:HA	1:m:459:ARG:H	1.75	0.51
1:n:304:TRP:CE2	1:n:689:GLU:HG2	2.46	0.51
1:p:526:HIS:HB2	1:p:530:GLU:HB2	1.92	0.51
1:p:713:THR:HG21	1:q:275:TYR:OH	2.10	0.51
1:r:304:TRP:CE2	1:r:689:GLU:HG2	2.46	0.51
1:r:526:HIS:HB2	1:r:530:GLU:HB2	1.92	0.51
1:x:304:TRP:CE2	1:x:689:GLU:HG2	2.46	0.51
1:4:304:TRP:CE2	1:4:689:GLU:HG2	2.46	0.51
1:5:397:TYR:OH	1:8:295:ASP:OD2	2.27	0.51
1:7:234:TRP:CD1	1:7:298[B]:ARG:NH1	2.78	0.51
1:8:449:ASN:HA	1:8:459:ARG:H	1.75	0.51
1:8:526:HIS:HB2	1:8:530:GLU:HB2	1.92	0.51
1:A:304:TRP:CE2	1:A:689:GLU:HG2	2.46	0.51
1:B:304:TRP:CE2	1:B:689:GLU:HG2	2.46	0.51
1:C:449:ASN:HA	1:C:459:ARG:H	1.75	0.51
1:C:518:ASN:O	1:C:537:SER:O	2.29	0.51
1:C:526:HIS:HB2	1:C:530:GLU:HB2	1.92	0.51
1:F:526:HIS:HB2	1:F:530:GLU:HB2	1.92	0.51
1:J:434:MET:HB2	1:L:358:HIS:NE2	2.25	0.51
1:M:300:ILE:HD11	1:M:727:GLY:O	2.09	0.51
1:M:304:TRP:CE2	1:M:689:GLU:HG2	2.46	0.51
1:N:234:TRP:CD1	1:N:298[B]:ARG:NH1	2.78	0.51
1:N:526:HIS:HB2	1:N:530:GLU:HB2	1.92	0.51
1:Q:449:ASN:HA	1:Q:459:ARG:H	1.75	0.51
1:R:526:HIS:HB2	1:R:530:GLU:HB2	1.92	0.51
1:T:358:HIS:NE2	1:l:434:MET:HB2	2.26	0.51
1:T:527:LYS:HG2	1:T:530:GLU:HG3	1.93	0.51
1:U:295:ASP:OD2	1:e:397:TYR:OH	2.27	0.51
1:V:358:HIS:NE2	1:X:434:MET:HB2	2.25	0.51
1:X:229:HIS:O	1:X:244:THR:OG1	2.23	0.51
1:Z:275:TYR:OH	1:a:713:THR:HG21	2.10	0.51
1:Z:518:ASN:O	1:Z:537:SER:O	2.29	0.51
1:Z:689:GLU:HG3	1:Z:731:LEU:HD13	1.90	0.51
1:d:234:TRP:CD1	1:d:298[B]:ARG:NH1	2.78	0.51
1:d:300:ILE:HD11	1:d:727:GLY:O	2.09	0.51
1:e:234:TRP:CD1	1:e:298[B]:ARG:NH1	2.78	0.51
1:f:449:ASN:HA	1:f:459:ARG:H	1.75	0.51
1:f:518:ASN:O	1:f:537:SER:O	2.29	0.51
1:f:526:HIS:HB2	1:f:530:GLU:HB2	1.92	0.51
1:g:234:TRP:CD1	1:g:298[B]:ARG:NH1	2.78	0.51
1:i:304:TRP:CE2	1:i:689:GLU:HG2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:434:MET:HB2	1:j:358:HIS:NE2	2.26	0.51
1:j:304:TRP:CE2	1:j:689:GLU:HG2	2.46	0.51
1:k:304:TRP:CE2	1:k:689:GLU:HG2	2.46	0.51
1:k:397:TYR:OH	1:w:295:ASP:OD2	2.27	0.51
1:o:304:TRP:CE2	1:o:689:GLU:HG2	2.46	0.51
1:p:229:HIS:O	1:p:244:THR:OG1	2.23	0.51
1:s:449:ASN:HA	1:s:459:ARG:H	1.75	0.51
1:u:434:MET:HB2	1:v:358:HIS:NE2	2.25	0.51
1:z:234:TRP:CD1	1:z:298[B]:ARG:NH1	2.78	0.51
1:z:351:PRO:HB3	1:2:428:GLN:HE22	1.75	0.51
1:1:304:TRP:CE2	1:1:689:GLU:HG2	2.46	0.51
1:1:527:LYS:HG2	1:1:530:GLU:HG3	1.93	0.51
1:3:234:TRP:CD1	1:3:298[B]:ARG:NH1	2.78	0.51
1:6:449:ASN:HA	1:6:459:ARG:H	1.75	0.51
1:7:526:HIS:HB2	1:7:530:GLU:HB2	1.92	0.51
1:7:699:GLN:H	1:8:701:THR:HG23	1.75	0.51
1:8:482:CYS:HA	1:8:523:MET:HE2	1.93	0.51
1:D:526:HIS:HB2	1:D:530:GLU:HB2	1.92	0.51
1:F:304:TRP:CE2	1:F:689:GLU:HG2	2.46	0.51
1:I:234:TRP:CD1	1:I:298[B]:ARG:NH1	2.78	0.51
1:J:526:HIS:HB2	1:J:530:GLU:HB2	1.92	0.51
1:J:713:THR:HG21	1:a:275:TYR:OH	2.10	0.51
1:K:527:LYS:HG2	1:K:530:GLU:HG3	1.93	0.51
1:L:304:TRP:CE2	1:L:689:GLU:HG2	2.46	0.51
1:L:518:ASN:O	1:L:537:SER:O	2.29	0.51
1:M:234:TRP:CD1	1:M:298[B]:ARG:NH1	2.78	0.51
1:M:518:ASN:O	1:M:537:SER:O	2.29	0.51
1:N:527:LYS:HG2	1:N:530:GLU:HG3	1.93	0.51
1:O:527:LYS:HG2	1:O:530:GLU:HG3	1.93	0.51
1:T:234:TRP:CD1	1:T:298[B]:ARG:NH1	2.78	0.51
1:T:434:MET:HB2	1:d:358:HIS:NE2	2.26	0.51
1:U:304:TRP:CE2	1:U:689:GLU:HG2	2.46	0.51
1:W:482:CYS:HA	1:W:523:MET:HE2	1.93	0.51
1:Z:304:TRP:CE2	1:Z:689:GLU:HG2	2.46	0.51
1:Z:527:LYS:HG2	1:Z:530:GLU:HG3	1.93	0.51
1:b:234:TRP:CD1	1:b:298[B]:ARG:NH1	2.78	0.51
1:b:449:ASN:HA	1:b:459:ARG:H	1.75	0.51
1:d:304:TRP:CE2	1:d:689:GLU:HG2	2.46	0.51
1:d:518:ASN:O	1:d:537:SER:O	2.29	0.51
1:f:482:CYS:HA	1:f:523:MET:HE2	1.93	0.51
1:h:449:ASN:HA	1:h:459:ARG:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:449:ASN:HA	1:l:459:ARG:H	1.75	0.51
1:l:518:ASN:O	1:l:537:SER:O	2.29	0.51
1:q:304:TRP:CE2	1:q:689:GLU:HG2	2.46	0.51
1:s:304:TRP:CE2	1:s:689:GLU:HG2	2.46	0.51
1:s:526:HIS:HB2	1:s:530:GLU:HB2	1.92	0.51
1:t:482:CYS:HA	1:t:523:MET:HE2	1.93	0.51
1:w:358:HIS:NE2	1:y:434:MET:HB2	2.25	0.51
1:x:527:LYS:HG2	1:x:530:GLU:HG3	1.93	0.51
1:3:358:HIS:NE2	1:4:434:MET:HB2	2.26	0.51
1:6:304:TRP:CE2	1:6:689:GLU:HG2	2.46	0.51
1:8:518:ASN:O	1:8:537:SER:O	2.29	0.51
1:B:526:HIS:HB2	1:B:530:GLU:HB2	1.92	0.51
1:B:699:GLN:H	1:I:701:THR:HG23	1.75	0.51
1:H:482:CYS:HA	1:H:523:MET:HE2	1.93	0.51
1:J:518:ASN:O	1:J:537:SER:O	2.29	0.51
1:K:449:ASN:HA	1:K:459:ARG:H	1.75	0.51
1:M:526:HIS:HB2	1:M:530:GLU:HB2	1.92	0.51
1:Q:304:TRP:CE2	1:Q:689:GLU:HG2	2.46	0.51
1:Q:526:HIS:HB2	1:Q:530:GLU:HB2	1.92	0.51
1:S:482:CYS:HA	1:S:523:MET:HE2	1.93	0.51
1:S:518:ASN:O	1:S:537:SER:O	2.29	0.51
1:T:351:PRO:HB3	1:l:428:GLN:HE22	1.76	0.51
1:T:449:ASN:HA	1:T:459:ARG:H	1.75	0.51
1:U:518:ASN:O	1:U:537:SER:O	2.29	0.51
1:V:304:TRP:CE2	1:V:689:GLU:HG2	2.46	0.51
1:X:234:TRP:CD1	1:X:298[B]:ARG:NH1	2.78	0.51
1:X:351:PRO:HB3	1:e:428:GLN:HE22	1.76	0.51
1:X:449:ASN:HA	1:X:459:ARG:H	1.75	0.51
1:X:482:CYS:HA	1:X:523:MET:HE2	1.93	0.51
1:X:500:TYR:CZ	1:e:448:THR:CG2	2.81	0.51
1:Y:518:ASN:O	1:Y:537:SER:O	2.29	0.51
1:Y:527:LYS:HG2	1:Y:530:GLU:HG3	1.93	0.51
1:Z:234:TRP:CD1	1:Z:298[B]:ARG:NH1	2.78	0.51
1:Z:351:PRO:HB3	1:3:428:GLN:HE22	1.76	0.51
1:Z:434:MET:HB2	1:4:358:HIS:NE2	2.25	0.51
1:c:358:HIS:NE2	1:p:434:MET:HB2	2.26	0.51
1:c:518:ASN:O	1:c:537:SER:O	2.29	0.51
1:d:434:MET:HB2	1:l:358:HIS:NE2	2.26	0.51
1:d:526:HIS:HB2	1:d:530:GLU:HB2	1.92	0.51
1:f:527:LYS:HG2	1:f:530:GLU:HG3	1.93	0.51
1:g:358:HIS:NE2	1:h:434:MET:HB2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:518:ASN:O	1:g:537:SER:O	2.29	0.51
1:i:518:ASN:O	1:i:537:SER:O	2.29	0.51
1:j:518:ASN:O	1:j:537:SER:O	2.29	0.51
1:n:526:HIS:HB2	1:n:530:GLU:HB2	1.92	0.51
1:o:518:ASN:O	1:o:537:SER:O	2.29	0.51
1:q:526:HIS:HB2	1:q:530:GLU:HB2	1.92	0.51
1:t:448:THR:CG2	1:u:500:TYR:CZ	2.81	0.51
1:u:518:ASN:O	1:u:537:SER:O	2.29	0.51
1:v:304:TRP:CE2	1:v:689:GLU:HG2	2.46	0.51
1:v:482:CYS:HA	1:v:523:MET:HE2	1.93	0.51
1:z:518:ASN:O	1:z:537:SER:O	2.29	0.51
1:1:234:TRP:CD1	1:1:298[B]:ARG:NH1	2.78	0.51
1:1:518:ASN:O	1:1:537:SER:O	2.29	0.51
1:1:689:GLU:HG3	1:1:731:LEU:HD13	1.90	0.51
1:2:526:HIS:HB2	1:2:530:GLU:HB2	1.92	0.51
1:2:699:GLN:H	1:4:701:THR:HG23	1.75	0.51
1:5:358:HIS:NE2	1:7:434:MET:HB2	2.26	0.51
1:5:500:TYR:CZ	1:7:448:THR:CG2	2.81	0.51
1:8:527:LYS:HG2	1:8:530:GLU:HG3	1.93	0.51
1:A:527:LYS:HG2	1:A:530:GLU:HG3	1.93	0.51
1:D:482:CYS:HA	1:D:523:MET:HE2	1.93	0.51
1:F:482:CYS:HA	1:F:523:MET:HE2	1.93	0.51
1:H:304:TRP:CE2	1:H:689:GLU:HG2	2.46	0.51
1:H:527:LYS:HG2	1:H:530:GLU:HG3	1.93	0.51
1:I:449:ASN:HA	1:I:459:ARG:H	1.75	0.51
1:I:482:CYS:HA	1:I:523:MET:HE2	1.93	0.51
1:R:434:MET:HB2	1:S:358:HIS:NE2	2.26	0.51
1:W:448:THR:CG2	1:Y:500:TYR:CZ	2.81	0.51
1:Z:482:CYS:HA	1:Z:523:MET:HE2	1.93	0.51
1:a:526:HIS:HB2	1:a:530:GLU:HB2	1.92	0.51
1:b:304:TRP:CE2	1:b:689:GLU:HG2	2.46	0.51
1:f:351:PRO:HB3	1:g:428:GLN:HE22	1.75	0.51
1:g:304:TRP:CE2	1:g:689:GLU:HG2	2.46	0.51
1:g:526:HIS:HB2	1:g:530:GLU:HB2	1.92	0.51
1:h:527:LYS:HG2	1:h:530:GLU:HG3	1.93	0.51
1:k:518:ASN:O	1:k:537:SER:O	2.29	0.51
1:l:689:GLU:OE2	1:l:691:SER:OG	2.26	0.51
1:m:428:GLN:HE22	1:n:351:PRO:HB3	1.76	0.51
1:o:449:ASN:HA	1:o:459:ARG:H	1.75	0.51
1:v:701:THR:HG23	1:y:699:GLN:H	1.75	0.51
1:w:234:TRP:CD1	1:w:298[B]:ARG:NH1	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:351:PRO:HB3	1:y:428:GLN:HE22	1.75	0.51
1:w:434:MET:HB2	1:x:358:HIS:NE2	2.25	0.51
1:w:482:CYS:HA	1:w:523:MET:HE2	1.93	0.51
1:z:527:LYS:HG2	1:z:530:GLU:HG3	1.93	0.51
1:3:518:ASN:O	1:3:537:SER:O	2.29	0.51
1:4:526:HIS:HB2	1:4:530:GLU:HB2	1.92	0.51
1:5:449:ASN:HA	1:5:459:ARG:H	1.75	0.51
1:5:482:CYS:HA	1:5:523:MET:HE2	1.93	0.51
1:A:482:CYS:HA	1:A:523:MET:HE2	1.93	0.51
1:B:518:ASN:O	1:B:537:SER:O	2.29	0.51
1:B:701:THR:HG23	1:I:699:GLN:H	1.75	0.51
1:C:300:ILE:HD11	1:C:727:GLY:O	2.09	0.51
1:G:304:TRP:CE2	1:G:689:GLU:HG2	2.46	0.51
1:G:527:LYS:HG2	1:G:530:GLU:HG3	1.93	0.51
1:R:351:PRO:HB3	1:U:428:GLN:HE22	1.76	0.51
1:T:304:TRP:CE2	1:T:689:GLU:HG2	2.46	0.51
1:U:449:ASN:HA	1:U:459:ARG:H	1.75	0.51
1:V:351:PRO:HB3	1:X:428:GLN:HE22	1.76	0.51
1:V:434:MET:HB2	1:e:358:HIS:NE2	2.26	0.51
1:Y:234:TRP:CD1	1:Y:298[B]:ARG:NH1	2.78	0.51
1:a:304:TRP:CE2	1:a:689:GLU:HG2	2.46	0.51
1:c:482:CYS:HA	1:c:523:MET:HE2	1.93	0.51
1:f:500:TYR:CZ	1:g:448:THR:CG2	2.81	0.51
1:g:701:THR:HG23	1:z:699:GLN:H	1.76	0.51
1:j:526:HIS:HB2	1:j:530:GLU:HB2	1.92	0.51
1:l:300:ILE:HD11	1:l:727:GLY:O	2.09	0.51
1:n:482:CYS:HA	1:n:523:MET:HE2	1.93	0.51
1:o:428:GLN:HE22	1:p:351:PRO:HB3	1.76	0.51
1:p:527:LYS:HG2	1:p:530:GLU:HG3	1.93	0.51
1:q:482:CYS:HA	1:q:523:MET:HE2	1.93	0.51
1:r:518:ASN:O	1:r:537:SER:O	2.29	0.51
1:t:428:GLN:HE22	1:u:351:PRO:HB3	1.76	0.51
1:u:234:TRP:CD1	1:u:298[B]:ARG:NH1	2.78	0.51
1:u:428:GLN:HE22	1:v:351:PRO:HB3	1.76	0.51
1:u:527:LYS:HG2	1:u:530:GLU:HG3	1.93	0.51
1:v:527:LYS:HG2	1:v:530:GLU:HG3	1.93	0.51
1:x:482:CYS:HA	1:x:523:MET:HE2	1.93	0.51
1:y:304:TRP:CE2	1:y:689:GLU:HG2	2.46	0.51
1:y:527:LYS:HG2	1:y:530:GLU:HG3	1.93	0.51
1:1:482:CYS:HA	1:1:523:MET:HE2	1.93	0.51
1:3:527:LYS:HG2	1:3:530:GLU:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:234:TRP:CD1	1:5:298[B]:ARG:NH1	2.78	0.51
1:B:358:HIS:NE2	1:L:434:MET:HB2	2.26	0.51
1:C:689:GLU:OE2	1:C:691:SER:OG	2.26	0.51
1:E:234:TRP:CD1	1:E:298[B]:ARG:NH1	2.78	0.51
1:R:229:HIS:O	1:R:244:THR:OG1	2.23	0.51
1:R:527:LYS:HG2	1:R:530:GLU:HG3	1.93	0.51
1:U:482:CYS:HA	1:U:523:MET:HE2	1.93	0.51
1:W:518:ASN:O	1:W:537:SER:O	2.29	0.51
1:a:434:MET:HB2	1:8:358:HIS:NE2	2.25	0.51
1:a:518:ASN:O	1:a:537:SER:O	2.29	0.51
1:b:482:CYS:HA	1:b:523:MET:HE2	1.93	0.51
1:c:397:TYR:OH	1:s:295:ASP:OD2	2.26	0.51
1:e:527:LYS:HG2	1:e:530:GLU:HG3	1.93	0.51
1:k:482:CYS:HA	1:k:523:MET:HE2	1.93	0.51
1:m:699:GLN:H	1:r:701:THR:HG23	1.76	0.51
1:o:482:CYS:HA	1:o:523:MET:HE2	1.93	0.51
1:o:526:HIS:HB2	1:o:530:GLU:HB2	1.92	0.51
1:r:234:TRP:CD1	1:r:298[B]:ARG:NH1	2.78	0.51
1:w:449:ASN:HA	1:w:459:ARG:H	1.75	0.51
1:z:434:MET:HB2	1:1:358:HIS:NE2	2.25	0.51
1:3:482:CYS:HA	1:3:523:MET:HE2	1.93	0.51
1:5:434:MET:HB2	1:6:358:HIS:NE2	2.26	0.51
1:A:428:GLN:HE22	1:G:351:PRO:HB3	1.76	0.51
1:E:518:ASN:O	1:E:537:SER:O	2.29	0.51
1:F:518:ASN:O	1:F:537:SER:O	2.29	0.51
1:I:304:TRP:CE2	1:I:689:GLU:HG2	2.46	0.51
1:J:482:CYS:HA	1:J:523:MET:HE2	1.93	0.51
1:K:358:HIS:NE2	1:8:434:MET:HB2	2.26	0.51
1:K:434:MET:HB2	1:a:358:HIS:NE2	2.26	0.51
1:M:482:CYS:HA	1:M:523:MET:HE2	1.93	0.51
1:M:527:LYS:HG2	1:M:530:GLU:HG3	1.93	0.51
1:O:304:TRP:CE2	1:O:689:GLU:HG2	2.46	0.51
1:R:304:TRP:CE2	1:R:689:GLU:HG2	2.46	0.51
1:R:518:ASN:O	1:R:537:SER:O	2.29	0.51
1:T:482:CYS:HA	1:T:523:MET:HE2	1.93	0.51
1:T:518:ASN:O	1:T:537:SER:O	2.29	0.51
1:a:448:THR:CG2	1:8:500:TYR:CZ	2.81	0.51
1:a:527:LYS:HG2	1:a:530:GLU:HG3	1.93	0.51
1:d:482:CYS:HA	1:d:523:MET:HE2	1.93	0.51
1:g:482:CYS:HA	1:g:523:MET:HE2	1.93	0.51
1:g:527:LYS:HG2	1:g:530:GLU:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:518:ASN:O	1:h:537:SER:O	2.29	0.51
1:h:701:THR:HG23	1:k:699:GLN:H	1.76	0.51
1:i:482:CYS:HA	1:i:523:MET:HE2	1.93	0.51
1:j:428:GLN:HE22	1:k:351:PRO:HB3	1.76	0.51
1:m:234:TRP:CD1	1:m:298[B]:ARG:NH1	2.78	0.51
1:p:304:TRP:CE2	1:p:689:GLU:HG2	2.46	0.51
1:q:518:ASN:O	1:q:537:SER:O	2.29	0.51
1:t:518:ASN:O	1:t:537:SER:O	2.29	0.51
1:v:518:ASN:O	1:v:537:SER:O	2.29	0.51
1:w:229:HIS:O	1:w:244:THR:OG1	2.22	0.51
1:z:482:CYS:HA	1:z:523:MET:HE2	1.93	0.51
1:1:434:MET:HB2	1:2:358:HIS:NE2	2.26	0.51
1:6:526:HIS:HB2	1:6:530:GLU:HB2	1.92	0.51
1:7:527:LYS:HG2	1:7:530:GLU:HG3	1.93	0.51
1:8:304:TRP:CE2	1:8:689:GLU:HG2	2.46	0.51
1:A:434:MET:HB2	1:G:358:HIS:NE2	2.26	0.50
1:B:428:GLN:HE22	1:J:351:PRO:HB3	1.76	0.50
1:B:434:MET:HB2	1:J:358:HIS:NE2	2.26	0.50
1:C:304:TRP:CE2	1:C:689:GLU:HG2	2.46	0.50
1:D:351:PRO:HB3	1:P:428:GLN:HE22	1.77	0.50
1:F:358:HIS:NE2	1:Q:434:MET:HB2	2.26	0.50
1:H:518:ASN:O	1:H:537:SER:O	2.29	0.50
1:I:229:HIS:O	1:I:244:THR:OG1	2.23	0.50
1:K:518:ASN:O	1:K:537:SER:O	2.29	0.50
1:L:482:CYS:HA	1:L:523:MET:HE2	1.93	0.50
1:N:482:CYS:HA	1:N:523:MET:HE2	1.93	0.50
1:O:358:HIS:NE2	1:n:434:MET:HB2	2.25	0.50
1:O:518:ASN:O	1:O:537:SER:O	2.29	0.50
1:P:234:TRP:CD1	1:P:298[B]:ARG:NH1	2.78	0.50
1:P:518:ASN:O	1:P:537:SER:O	2.29	0.50
1:S:434:MET:HB2	1:U:358:HIS:NE2	2.26	0.50
1:a:482:CYS:HA	1:a:523:MET:HE2	1.93	0.50
1:b:518:ASN:O	1:b:537:SER:O	2.29	0.50
1:f:304:TRP:CE2	1:f:689:GLU:HG2	2.46	0.50
1:m:701:THR:HG23	1:r:699:GLN:H	1.75	0.50
1:p:518:ASN:O	1:p:537:SER:O	2.29	0.50
1:t:434:MET:HB2	1:u:358:HIS:NE2	2.26	0.50
1:w:304:TRP:CE2	1:w:689:GLU:HG2	2.46	0.50
1:A:358:HIS:NE2	1:I:434:MET:HB2	2.26	0.50
1:E:699:GLN:H	1:P:701:THR:HG23	1.75	0.50
1:G:518:ASN:O	1:G:537:SER:O	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:527:LYS:HG2	1:I:530:GLU:HG3	1.93	0.50
1:N:304:TRP:CE2	1:N:689:GLU:HG2	2.46	0.50
1:N:518:ASN:O	1:N:537:SER:O	2.29	0.50
1:O:482:CYS:HA	1:O:523:MET:HE2	1.93	0.50
1:Q:701:THR:HG23	1:R:699:GLN:H	1.75	0.50
1:U:526:HIS:HB2	1:U:530:GLU:HB2	1.92	0.50
1:V:527:LYS:HG2	1:V:530:GLU:HG3	1.93	0.50
1:Z:428:GLN:HE22	1:4:351:PRO:HB3	1.76	0.50
1:d:689:GLU:OE2	1:d:691:SER:OG	2.26	0.50
1:f:358:HIS:NE2	1:g:434:MET:HB2	2.26	0.50
1:f:428:GLN:HE22	1:h:351:PRO:HB3	1.76	0.50
1:j:434:MET:HB2	1:k:358:HIS:NE2	2.26	0.50
1:l:304:TRP:CE2	1:l:689:GLU:HG2	2.46	0.50
1:m:518:ASN:O	1:m:537:SER:O	2.29	0.50
1:y:518:ASN:O	1:y:537:SER:O	2.29	0.50
1:1:229:HIS:O	1:1:244:THR:OG1	2.23	0.50
1:2:701:THR:HG23	1:4:699:GLN:H	1.75	0.50
1:C:482:CYS:HA	1:C:523:MET:HE2	1.93	0.50
1:E:701:THR:HG23	1:P:699:GLN:H	1.76	0.50
1:G:699:GLN:H	1:H:701:THR:HG23	1.76	0.50
1:H:428:GLN:HE22	1:W:351:PRO:HB3	1.76	0.50
1:N:701:THR:HG23	1:O:699:GLN:H	1.75	0.50
1:Q:482:CYS:HA	1:Q:523:MET:HE2	1.93	0.50
1:Q:527:LYS:HG2	1:Q:530:GLU:HG3	1.93	0.50
1:V:526:HIS:HB2	1:V:530:GLU:HB2	1.92	0.50
1:Y:482:CYS:HA	1:Y:523:MET:HE2	1.93	0.50
1:a:428:GLN:HE22	1:8:351:PRO:HB3	1.76	0.50
1:c:434:MET:HB2	1:o:358:HIS:NE2	2.26	0.50
1:d:527:LYS:HG2	1:d:530:GLU:HG3	1.93	0.50
1:e:518:ASN:O	1:e:537:SER:O	2.29	0.50
1:i:449:ASN:HA	1:i:459:ARG:H	1.75	0.50
1:l:482:CYS:HA	1:l:523:MET:HE2	1.93	0.50
1:o:295:ASP:OD2	1:7:397:TYR:OH	2.27	0.50
1:q:434:MET:HB2	1:r:358:HIS:NE2	2.25	0.50
1:s:527:LYS:HG2	1:s:530:GLU:HG3	1.93	0.50
1:u:482:CYS:HA	1:u:523:MET:HE2	1.93	0.50
1:w:527:LYS:HG2	1:w:530:GLU:HG3	1.93	0.50
1:3:304:TRP:CE2	1:3:689:GLU:HG2	2.46	0.50
1:A:518:ASN:O	1:A:537:SER:O	2.29	0.50
1:D:434:MET:HB2	1:N:358:HIS:NE2	2.26	0.50
1:E:482:CYS:HA	1:E:523:MET:HE2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:526:HIS:HB2	1:I:530:GLU:HB2	1.92	0.50
1:K:482:CYS:HA	1:K:523:MET:HE2	1.93	0.50
1:N:434:MET:HB2	1:P:358:HIS:NE2	2.26	0.50
1:V:482:CYS:HA	1:V:523:MET:HE2	1.93	0.50
1:W:449:ASN:HA	1:W:459:ARG:H	1.75	0.50
1:p:449:ASN:HA	1:p:459:ARG:H	1.75	0.50
1:r:482:CYS:HA	1:r:523:MET:HE2	1.93	0.50
1:s:482:CYS:HA	1:s:523:MET:HE2	1.93	0.50
1:u:699:GLN:H	1:1:701:THR:HG23	1.76	0.50
1:w:526:HIS:HB2	1:w:530:GLU:HB2	1.92	0.50
1:x:428:GLN:HE22	1:y:351:PRO:HB3	1.77	0.50
1:z:428:GLN:HE22	1:1:351:PRO:HB3	1.77	0.50
1:6:482:CYS:HA	1:6:523:MET:HE2	1.93	0.50
1:7:518:ASN:O	1:7:537:SER:O	2.29	0.50
1:8:234:TRP:CD1	1:8:298[B]:ARG:NH1	2.78	0.50
1:E:358:HIS:NE2	1:F:434:MET:HB2	2.26	0.50
1:G:428:GLN:HE22	1:I:351:PRO:HB3	1.76	0.50
1:G:482:CYS:HA	1:G:523:MET:HE2	1.93	0.50
1:M:689:GLU:OE2	1:M:691:SER:OG	2.26	0.50
1:O:434:MET:HB2	1:m:358:HIS:NE2	2.26	0.50
1:R:449:ASN:HA	1:R:459:ARG:H	1.75	0.50
1:U:527:LYS:HG2	1:U:530:GLU:HG3	1.93	0.50
1:Y:701:THR:HG23	1:Z:699:GLN:H	1.77	0.50
1:Z:229:HIS:O	1:Z:244:THR:OG1	2.22	0.50
1:h:304:TRP:CE2	1:h:689:GLU:HG2	2.46	0.50
1:h:482:CYS:HA	1:h:523:MET:HE2	1.93	0.50
1:m:304:TRP:CE2	1:m:689:GLU:HG2	2.46	0.50
1:q:351:PRO:HB3	1:s:428:GLN:HE22	1.76	0.50
1:u:304:TRP:CE2	1:u:689:GLU:HG2	2.46	0.50
1:x:518:ASN:O	1:x:537:SER:O	2.29	0.50
1:z:304:TRP:CE2	1:z:689:GLU:HG2	2.46	0.50
1:4:527:LYS:HG2	1:4:530:GLU:HG3	1.93	0.50
1:6:527:LYS:HG2	1:6:530:GLU:HG3	1.93	0.50
1:C:397:TYR:OH	1:D:295:ASP:OD2	2.26	0.50
1:C:527:LYS:HG2	1:C:530:GLU:HG3	1.93	0.50
1:H:351:PRO:HB3	1:Y:428:GLN:HE22	1.77	0.50
1:J:234:TRP:CD1	1:J:298[B]:ARG:NH1	2.78	0.50
1:L:449:ASN:HA	1:L:459:ARG:H	1.75	0.50
1:P:304:TRP:CE2	1:P:689:GLU:HG2	2.46	0.50
1:S:701:THR:HG23	1:T:699:GLN:H	1.76	0.50
1:W:527:LYS:HG2	1:W:530:GLU:HG3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:304:TRP:CE2	1:Y:689:GLU:HG2	2.46	0.50
1:Z:358:HIS:NE2	1:3:434:MET:HB2	2.26	0.50
1:c:527:LYS:HG2	1:c:530:GLU:HG3	1.93	0.50
1:f:234:TRP:CD1	1:f:298[B]:ARG:NH1	2.78	0.50
1:k:234:TRP:CD1	1:k:298[B]:ARG:NH1	2.78	0.50
1:l:527:LYS:HG2	1:l:530:GLU:HG3	1.93	0.50
1:n:527:LYS:HG2	1:n:530:GLU:HG3	1.93	0.50
1:o:527:LYS:HG2	1:o:530:GLU:HG3	1.93	0.50
1:q:300:ILE:HD11	1:q:727:GLY:O	2.09	0.50
1:t:449:ASN:HA	1:t:459:ARG:H	1.75	0.50
1:t:527:LYS:HG2	1:t:530:GLU:HG3	1.93	0.50
1:y:482:CYS:HA	1:y:523:MET:HE2	1.93	0.50
1:2:527:LYS:HG2	1:2:530:GLU:HG3	1.93	0.50
1:6:434:MET:HB2	1:7:358:HIS:NE2	2.27	0.50
1:6:448:THR:CG2	1:7:500:TYR:CZ	2.80	0.50
1:7:482:CYS:HA	1:7:523:MET:HE2	1.93	0.50
1:B:404:ARG:HD2	1:C:222:GLY:C	2.37	0.50
1:F:300:ILE:HD11	1:F:727:GLY:O	2.09	0.50
1:K:304:TRP:CE2	1:K:689:GLU:HG2	2.46	0.50
1:O:448:THR:CG2	1:m:500:TYR:CZ	2.81	0.50
1:P:527:LYS:HG2	1:P:530:GLU:HG3	1.93	0.50
1:T:518:ASN:HA	1:T:537:SER:HB2	1.94	0.50
1:W:428:GLN:HE22	1:Y:351:PRO:HB3	1.76	0.50
1:Z:689:GLU:OE2	1:Z:691:SER:OG	2.26	0.50
1:i:351:PRO:HB3	1:k:428:GLN:HE22	1.76	0.50
1:x:434:MET:HB2	1:y:358:HIS:NE2	2.26	0.50
1:1:428:GLN:HE22	1:2:351:PRO:HB3	1.76	0.50
1:1:689:GLU:OE2	1:1:691:SER:OG	2.26	0.50
1:D:518:ASN:O	1:D:537:SER:O	2.29	0.50
1:E:434:MET:HB2	1:Q:358:HIS:NE2	2.26	0.50
1:J:699:GLN:H	1:K:701:THR:HG23	1.77	0.50
1:S:304:TRP:CE2	1:S:689:GLU:HG2	2.46	0.50
1:c:304:TRP:CE2	1:c:689:GLU:HG2	2.46	0.50
1:e:482:CYS:HA	1:e:523:MET:HE2	1.93	0.50
1:j:701:THR:HG23	1:w:699:GLN:H	1.77	0.50
1:k:434:MET:N	1:k:434:MET:SD	2.85	0.50
1:m:434:MET:HB2	1:n:358:HIS:NE2	2.26	0.50
1:m:527:LYS:HG2	1:m:530:GLU:HG3	1.93	0.50
1:n:518:ASN:O	1:n:537:SER:O	2.29	0.50
1:q:358:HIS:NE2	1:s:434:MET:HB2	2.27	0.50
1:z:434:MET:N	1:z:434:MET:SD	2.85	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:518:ASN:O	1:6:537:SER:O	2.29	0.50
1:B:482:CYS:HA	1:B:523:MET:HE2	1.93	0.50
1:D:527:LYS:HG2	1:D:530:GLU:HG3	1.93	0.50
1:E:527:LYS:HG2	1:E:530:GLU:HG3	1.93	0.50
1:F:449:ASN:HA	1:F:459:ARG:H	1.75	0.50
1:H:358:HIS:NE2	1:Y:434:MET:HB2	2.27	0.50
1:J:434:MET:SD	1:J:434:MET:N	2.85	0.50
1:K:434:MET:N	1:K:434:MET:SD	2.85	0.50
1:N:423:SER:O	1:N:729:ARG:HA	2.12	0.50
1:P:518:ASN:HA	1:P:537:SER:HB2	1.94	0.50
1:Q:518:ASN:O	1:Q:537:SER:O	2.29	0.50
1:S:229:HIS:O	1:S:244:THR:OG1	2.23	0.50
1:S:527:LYS:HG2	1:S:530:GLU:HG3	1.93	0.50
1:V:518:ASN:O	1:V:537:SER:O	2.29	0.50
1:a:518:ASN:HA	1:a:537:SER:HB2	1.94	0.50
1:b:518:ASN:HA	1:b:537:SER:HB2	1.94	0.50
1:h:423:SER:O	1:h:729:ARG:HA	2.12	0.50
1:r:434:MET:HB2	1:s:358:HIS:NE2	2.26	0.50
1:r:518:ASN:HA	1:r:537:SER:HB2	1.94	0.50
1:r:527:LYS:HG2	1:r:530:GLU:HG3	1.93	0.50
1:3:423:SER:O	1:3:729:ARG:HA	2.12	0.50
1:4:518:ASN:O	1:4:537:SER:O	2.29	0.50
1:5:518:ASN:HA	1:5:537:SER:HB2	1.94	0.50
1:6:423:SER:O	1:6:729:ARG:HA	2.12	0.50
1:A:701:THR:HG23	1:F:699:GLN:H	1.76	0.49
1:C:423:SER:O	1:C:729:ARG:HA	2.12	0.49
1:D:358:HIS:NE2	1:P:434:MET:HB2	2.26	0.49
1:E:518:ASN:HA	1:E:537:SER:HB2	1.94	0.49
1:F:351:PRO:HB3	1:Q:428:GLN:HE22	1.76	0.49
1:H:423:SER:O	1:H:729:ARG:HA	2.12	0.49
1:K:423:SER:O	1:K:729:ARG:HA	2.12	0.49
1:O:423:SER:O	1:O:729:ARG:HA	2.12	0.49
1:O:500:TYR:CZ	1:n:448:THR:CG2	2.81	0.49
1:P:423:SER:O	1:P:729:ARG:HA	2.12	0.49
1:R:428:GLN:HE22	1:S:351:PRO:HB3	1.77	0.49
1:T:428:GLN:HE22	1:d:351:PRO:HB3	1.77	0.49
1:T:448:THR:CG2	1:d:500:TYR:CZ	2.81	0.49
1:V:423:SER:O	1:V:729:ARG:HA	2.12	0.49
1:V:428:GLN:HE22	1:e:351:PRO:HB3	1.77	0.49
1:V:448:THR:CG2	1:e:500:TYR:CZ	2.81	0.49
1:X:527:LYS:HG2	1:X:530:GLU:HG3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:449:ASN:HA	1:Z:459:ARG:H	1.75	0.49
1:m:423:SER:O	1:m:729:ARG:HA	2.12	0.49
1:m:518:ASN:HA	1:m:537:SER:HB2	1.94	0.49
1:o:699:GLN:H	1:6:701:THR:HG23	1.77	0.49
1:s:518:ASN:O	1:s:537:SER:O	2.29	0.49
1:v:423:SER:O	1:v:729:ARG:HA	2.12	0.49
1:v:518:ASN:HA	1:v:537:SER:HB2	1.94	0.49
1:z:423:SER:O	1:z:729:ARG:HA	2.12	0.49
1:2:518:ASN:O	1:2:537:SER:O	2.29	0.49
1:B:518:ASN:HA	1:B:537:SER:HB2	1.94	0.49
1:H:434:MET:HB2	1:W:358:HIS:NE2	2.26	0.49
1:H:518:ASN:HA	1:H:537:SER:HB2	1.94	0.49
1:P:434:MET:N	1:P:434:MET:SD	2.85	0.49
1:V:434:MET:N	1:V:434:MET:SD	2.85	0.49
1:X:518:ASN:HA	1:X:537:SER:HB2	1.94	0.49
1:a:699:GLN:H	1:3:701:THR:HG23	1.76	0.49
1:g:518:ASN:HA	1:g:537:SER:HB2	1.94	0.49
1:h:434:MET:SD	1:h:434:MET:N	2.85	0.49
1:j:482:CYS:HA	1:j:523:MET:HE2	1.93	0.49
1:j:518:ASN:HA	1:j:537:SER:HB2	1.94	0.49
1:l:423:SER:O	1:l:729:ARG:HA	2.12	0.49
1:m:448:THR:CG2	1:n:500:TYR:CZ	2.81	0.49
1:5:428:GLN:HE22	1:6:351:PRO:HB3	1.77	0.49
1:5:526:HIS:HB2	1:5:530:GLU:HB2	1.92	0.49
1:6:434:MET:N	1:6:434:MET:SD	2.85	0.49
1:B:351:PRO:HB3	1:L:428:GLN:HE22	1.77	0.49
1:C:351:PRO:HB3	1:M:428:GLN:HE22	1.77	0.49
1:D:448:THR:CG2	1:N:500:TYR:CZ	2.81	0.49
1:D:500:TYR:CZ	1:P:448:THR:CG2	2.81	0.49
1:J:518:ASN:HA	1:J:537:SER:HB2	1.94	0.49
1:M:423:SER:O	1:M:729:ARG:HA	2.12	0.49
1:W:423:SER:O	1:W:729:ARG:HA	2.12	0.49
1:X:526:HIS:HB2	1:X:530:GLU:HB2	1.92	0.49
1:d:423:SER:O	1:d:729:ARG:HA	2.12	0.49
1:e:562:GLU:OE2	1:e:612:TYR:OH	2.27	0.49
1:f:434:MET:N	1:f:434:MET:SD	2.85	0.49
1:q:428:GLN:HE22	1:r:351:PRO:HB3	1.76	0.49
1:q:449:ASN:HA	1:q:459:ARG:H	1.75	0.49
1:w:448:THR:CG2	1:x:500:TYR:CZ	2.81	0.49
1:5:527:LYS:HG2	1:5:530:GLU:HG3	1.93	0.49
1:6:518:ASN:HA	1:6:537:SER:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:434:MET:N	1:8:434:MET:SD	2.85	0.49
1:H:434:MET:N	1:H:434:MET:SD	2.85	0.49
1:P:482:CYS:HA	1:P:523:MET:HE2	1.93	0.49
1:S:423:SER:O	1:S:729:ARG:HA	2.12	0.49
1:S:428:GLN:HE22	1:U:351:PRO:HB3	1.76	0.49
1:Z:423:SER:O	1:Z:729:ARG:HA	2.12	0.49
1:c:423:SER:O	1:c:729:ARG:HA	2.12	0.49
1:c:448:THR:CG2	1:o:500:TYR:CZ	2.81	0.49
1:i:428:GLN:HE22	1:j:351:PRO:HB3	1.77	0.49
1:m:434:MET:SD	1:m:434:MET:N	2.85	0.49
1:t:358:HIS:NE2	1:v:434:MET:HB2	2.26	0.49
1:t:423:SER:O	1:t:729:ARG:HA	2.12	0.49
1:t:701:THR:HG23	1:5:699:GLN:H	1.77	0.49
1:1:518:ASN:HA	1:1:537:SER:HB2	1.94	0.49
1:2:434:MET:SD	1:2:434:MET:N	2.85	0.49
1:3:351:PRO:HB3	1:4:428:GLN:HE22	1.77	0.49
1:4:434:MET:N	1:4:434:MET:SD	2.85	0.49
1:A:351:PRO:HB3	1:I:428:GLN:HE22	1.77	0.49
1:A:423:SER:O	1:A:729:ARG:HA	2.12	0.49
1:B:423:SER:O	1:B:729:ARG:HA	2.12	0.49
1:E:428:GLN:HE22	1:Q:351:PRO:HB3	1.77	0.49
1:G:423:SER:O	1:G:729:ARG:HA	2.12	0.49
1:K:428:GLN:HE22	1:a:351:PRO:HB3	1.76	0.49
1:L:229:HIS:O	1:L:244:THR:OG1	2.23	0.49
1:M:518:ASN:HA	1:M:537:SER:HB2	1.94	0.49
1:N:448:THR:CG2	1:P:500:TYR:CZ	2.81	0.49
1:T:500:TYR:CZ	1:l:448:THR:CG2	2.81	0.49
1:V:518:ASN:HA	1:V:537:SER:HB2	1.94	0.49
1:X:518:ASN:O	1:X:537:SER:O	2.29	0.49
1:Z:518:ASN:HA	1:Z:537:SER:HB2	1.94	0.49
1:c:229:HIS:O	1:c:244:THR:OG1	2.23	0.49
1:c:428:GLN:HE22	1:o:351:PRO:HB3	1.76	0.49
1:k:423:SER:O	1:k:729:ARG:HA	2.12	0.49
1:k:518:ASN:HA	1:k:537:SER:HB2	1.94	0.49
1:m:482:CYS:HA	1:m:523:MET:HE2	1.93	0.49
1:r:423:SER:O	1:r:729:ARG:HA	2.12	0.49
1:v:434:MET:N	1:v:434:MET:SD	2.85	0.49
1:w:518:ASN:O	1:w:537:SER:O	2.29	0.49
1:y:423:SER:O	1:y:729:ARG:HA	2.12	0.49
1:1:423:SER:O	1:1:729:ARG:HA	2.12	0.49
1:1:449:ASN:HA	1:1:459:ARG:H	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:518:ASN:O	1:5:537:SER:O	2.29	0.49
1:6:689:GLU:OE2	1:6:691:SER:OG	2.26	0.49
1:7:562:GLU:OE2	1:7:612:TYR:OH	2.27	0.49
1:E:351:PRO:HB3	1:F:428:GLN:HE22	1.77	0.49
1:F:423:SER:O	1:F:729:ARG:HA	2.12	0.49
1:F:427:SER:HB3	1:F:732:THR:CG2	2.43	0.49
1:I:518:ASN:O	1:I:537:SER:O	2.29	0.49
1:I:608:ASP:O	1:I:729:ARG:NH2	2.44	0.49
1:J:448:THR:CG2	1:L:500:TYR:CZ	2.81	0.49
1:K:351:PRO:HB3	1:8:428:GLN:HE22	1.78	0.49
1:V:689:GLU:OE2	1:V:691:SER:OG	2.26	0.49
1:d:428:GLN:HE22	1:l:351:PRO:HB3	1.77	0.49
1:d:518:ASN:HA	1:d:537:SER:HB2	1.94	0.49
1:i:229:HIS:O	1:i:244:THR:OG1	2.23	0.49
1:i:434:MET:N	1:i:434:MET:SD	2.85	0.49
1:j:423:SER:O	1:j:729:ARG:HA	2.12	0.49
1:m:689:GLU:OE2	1:m:691:SER:OG	2.26	0.49
1:p:423:SER:O	1:p:729:ARG:HA	2.12	0.49
1:p:699:GLN:H	1:s:701:THR:HG23	1.76	0.49
1:q:423:SER:O	1:q:729:ARG:HA	2.12	0.49
1:q:527:LYS:HG2	1:q:530:GLU:HG3	1.93	0.49
1:t:518:ASN:HA	1:t:537:SER:HB2	1.94	0.49
1:6:427:SER:HB3	1:6:732:THR:CG2	2.43	0.49
1:A:518:ASN:HA	1:A:537:SER:HB2	1.94	0.49
1:C:427:SER:HB3	1:C:732:THR:CG2	2.43	0.49
1:E:423:SER:O	1:E:729:ARG:HA	2.12	0.49
1:F:434:MET:N	1:F:434:MET:SD	2.85	0.49
1:F:527:LYS:HG2	1:F:530:GLU:HG3	1.93	0.49
1:I:434:MET:SD	1:I:434:MET:N	2.85	0.49
1:J:423:SER:O	1:J:729:ARG:HA	2.12	0.49
1:M:404:ARG:HD2	1:c:222:GLY:C	2.38	0.49
1:M:434:MET:N	1:M:434:MET:SD	2.85	0.49
1:U:608:ASP:O	1:U:729:ARG:NH2	2.44	0.49
1:V:427:SER:HB3	1:V:732:THR:CG2	2.43	0.49
1:W:518:ASN:HA	1:W:537:SER:HB2	1.94	0.49
1:a:467:ALA:HA	1:a:470:ILE:HD11	1.95	0.49
1:b:699:GLN:H	1:c:701:THR:HG23	1.77	0.49
1:g:467:ALA:HA	1:g:470:ILE:HD11	1.95	0.49
1:i:500:TYR:CZ	1:k:448:THR:CG2	2.81	0.49
1:l:427:SER:HB3	1:l:732:THR:CG2	2.43	0.49
1:q:427:SER:HB3	1:q:732:THR:CG2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:351:PRO:HB3	1:v:428:GLN:HE22	1.78	0.49
1:w:608:ASP:O	1:w:729:ARG:NH2	2.44	0.49
1:x:423:SER:O	1:x:729:ARG:HA	2.12	0.49
1:z:518:ASN:HA	1:z:537:SER:HB2	1.94	0.49
1:2:423:SER:O	1:2:729:ARG:HA	2.12	0.49
1:2:482:CYS:HA	1:2:523:MET:HE2	1.93	0.49
1:3:518:ASN:HA	1:3:537:SER:HB2	1.94	0.49
1:4:423:SER:O	1:4:729:ARG:HA	2.12	0.49
1:4:482:CYS:HA	1:4:523:MET:HE2	1.93	0.49
1:6:428:GLN:HE22	1:7:351:PRO:HB3	1.77	0.49
1:D:434:MET:N	1:D:434:MET:SD	2.85	0.49
1:E:427:SER:HB3	1:E:732:THR:CG2	2.43	0.49
1:J:428:GLN:HE22	1:L:351:PRO:HB3	1.77	0.49
1:N:427:SER:HB3	1:N:732:THR:CG2	2.43	0.49
1:R:423:SER:O	1:R:729:ARG:HA	2.12	0.49
1:U:518:ASN:HA	1:U:537:SER:HB2	1.94	0.49
1:W:467:ALA:HA	1:W:470:ILE:HD11	1.95	0.49
1:Y:427:SER:HB3	1:Y:732:THR:CG2	2.43	0.49
1:Y:467:ALA:HA	1:Y:470:ILE:HD11	1.95	0.49
1:d:434:MET:N	1:d:434:MET:SD	2.85	0.49
1:e:427:SER:HB3	1:e:732:THR:CG2	2.43	0.49
1:g:434:MET:N	1:g:434:MET:SD	2.85	0.49
1:m:467:ALA:HA	1:m:470:ILE:HD11	1.95	0.49
1:n:434:MET:N	1:n:434:MET:SD	2.85	0.49
1:o:467:ALA:HA	1:o:470:ILE:HD11	1.95	0.49
1:o:518:ASN:HA	1:o:537:SER:HB2	1.94	0.49
1:o:608:ASP:O	1:o:729:ARG:NH2	2.44	0.49
1:p:482:CYS:HA	1:p:523:MET:HE2	1.93	0.49
1:q:434:MET:N	1:q:434:MET:SD	2.85	0.49
1:r:427:SER:HB3	1:r:732:THR:CG2	2.43	0.49
1:s:467:ALA:HA	1:s:470:ILE:HD11	1.95	0.49
1:t:467:ALA:HA	1:t:470:ILE:HD11	1.95	0.49
1:u:467:ALA:HA	1:u:470:ILE:HD11	1.95	0.49
1:w:423:SER:O	1:w:729:ARG:HA	2.12	0.49
1:w:428:GLN:HE22	1:x:351:PRO:HB3	1.77	0.49
1:w:434:MET:N	1:w:434:MET:SD	2.85	0.49
1:x:518:ASN:HA	1:x:537:SER:HB2	1.94	0.49
1:7:427:SER:HB3	1:7:732:THR:CG2	2.43	0.49
1:8:423:SER:O	1:8:729:ARG:HA	2.12	0.49
1:D:427:SER:HB3	1:D:732:THR:CG2	2.43	0.49
1:I:423:SER:O	1:I:729:ARG:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:434:MET:N	1:L:434:MET:SD	2.85	0.49
1:P:467:ALA:HA	1:P:470:ILE:HD11	1.95	0.49
1:R:427:SER:HB3	1:R:732:THR:CG2	2.43	0.49
1:R:467:ALA:HA	1:R:470:ILE:HD11	1.95	0.49
1:U:467:ALA:HA	1:U:470:ILE:HD11	1.95	0.49
1:W:427:SER:HB3	1:W:732:THR:CG2	2.43	0.49
1:a:434:MET:N	1:a:434:MET:SD	2.85	0.49
1:c:427:SER:HB3	1:c:732:THR:CG2	2.43	0.49
1:d:701:THR:HG23	1:n:699:GLN:H	1.76	0.49
1:e:518:ASN:HA	1:e:537:SER:HB2	1.94	0.49
1:f:423:SER:O	1:f:729:ARG:HA	2.12	0.49
1:f:467:ALA:HA	1:f:470:ILE:HD11	1.95	0.49
1:n:427:SER:HB3	1:n:732:THR:CG2	2.43	0.49
1:p:467:ALA:HA	1:p:470:ILE:HD11	1.95	0.49
1:t:427:SER:HB3	1:t:732:THR:CG2	2.43	0.49
1:u:427:SER:HB3	1:u:732:THR:CG2	2.43	0.49
1:4:427:SER:HB3	1:4:732:THR:CG2	2.43	0.49
1:5:689:GLU:OE2	1:5:691:SER:OG	2.26	0.49
1:8:467:ALA:HA	1:8:470:ILE:HD11	1.95	0.49
1:A:500:TYR:CZ	1:I:448:THR:CG2	2.81	0.49
1:B:427:SER:HB3	1:B:732:THR:CG2	2.43	0.49
1:B:434:MET:SD	1:B:434:MET:N	2.85	0.49
1:D:423:SER:O	1:D:729:ARG:HA	2.12	0.49
1:D:467:ALA:HA	1:D:470:ILE:HD11	1.95	0.49
1:F:518:ASN:HA	1:F:537:SER:HB2	1.94	0.49
1:N:699:GLN:H	1:O:701:THR:HG23	1.76	0.49
1:O:427:SER:HB3	1:O:732:THR:CG2	2.43	0.49
1:R:482:CYS:HA	1:R:523:MET:HE2	1.93	0.49
1:R:608:ASP:O	1:R:729:ARG:NH2	2.44	0.49
1:S:518:ASN:HA	1:S:537:SER:HB2	1.94	0.49
1:U:341:GLN:HE21	1:U:649:LYS:HD3	1.78	0.49
1:X:427:SER:HB3	1:X:732:THR:CG2	2.43	0.49
1:j:467:ALA:HA	1:j:470:ILE:HD11	1.95	0.49
1:l:608:ASP:O	1:l:729:ARG:NH2	2.44	0.49
1:n:423:SER:O	1:n:729:ARG:HA	2.12	0.49
1:n:467:ALA:HA	1:n:470:ILE:HD11	1.95	0.49
1:o:341:GLN:HE21	1:o:649:LYS:HD3	1.78	0.49
1:p:427:SER:HB3	1:p:732:THR:CG2	2.43	0.49
1:q:518:ASN:HA	1:q:537:SER:HB2	1.94	0.49
1:w:467:ALA:HA	1:w:470:ILE:HD11	1.95	0.49
1:2:427:SER:HB3	1:2:732:THR:CG2	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:427:SER:HB3	1:3:732:THR:CG2	2.43	0.49
1:5:427:SER:HB3	1:5:732:THR:CG2	2.43	0.49
1:B:467:ALA:HA	1:B:470:ILE:HD11	1.95	0.48
1:D:428:GLN:HE22	1:N:351:PRO:HB3	1.77	0.48
1:G:341:GLN:HE21	1:G:649:LYS:HD3	1.78	0.48
1:I:467:ALA:HA	1:I:470:ILE:HD11	1.95	0.48
1:N:428:GLN:HE22	1:P:351:PRO:HB3	1.77	0.48
1:Q:467:ALA:HA	1:Q:470:ILE:HD11	1.95	0.48
1:S:427:SER:HB3	1:S:732:THR:CG2	2.43	0.48
1:S:448:THR:CG2	1:U:500:TYR:CZ	2.81	0.48
1:S:467:ALA:HA	1:S:470:ILE:HD11	1.95	0.48
1:Z:427:SER:HB3	1:Z:732:THR:CG2	2.43	0.48
1:a:341:GLN:HE21	1:a:649:LYS:HD3	1.78	0.48
1:c:351:PRO:HB3	1:p:428:GLN:HE22	1.78	0.48
1:i:423:SER:O	1:i:729:ARG:HA	2.12	0.48
1:j:427:SER:HB3	1:j:732:THR:CG2	2.43	0.48
1:z:341:GLN:HE21	1:z:649:LYS:HD3	1.78	0.48
1:z:427:SER:HB3	1:z:732:THR:CG2	2.43	0.48
1:3:341:GLN:HE21	1:3:649:LYS:HD3	1.78	0.48
1:7:518:ASN:HA	1:7:537:SER:HB2	1.94	0.48
1:C:608:ASP:O	1:C:729:ARG:NH2	2.44	0.48
1:D:341:GLN:HE21	1:D:649:LYS:HD3	1.78	0.48
1:L:423:SER:O	1:L:729:ARG:HA	2.12	0.48
1:Q:608:ASP:O	1:Q:729:ARG:NH2	2.44	0.48
1:U:423:SER:O	1:U:729:ARG:HA	2.12	0.48
1:X:423:SER:O	1:X:729:ARG:HA	2.12	0.48
1:X:467:ALA:HA	1:X:470:ILE:HD11	1.95	0.48
1:c:467:ALA:HA	1:c:470:ILE:HD11	1.95	0.48
1:c:518:ASN:HA	1:c:537:SER:HB2	1.94	0.48
1:g:351:PRO:HB3	1:h:428:GLN:HE22	1.77	0.48
1:n:341:GLN:HE21	1:n:649:LYS:HD3	1.78	0.48
1:n:518:ASN:HA	1:n:537:SER:HB2	1.94	0.48
1:p:608:ASP:O	1:p:729:ARG:NH2	2.44	0.48
1:q:699:GLN:H	1:x:701:THR:HG23	1.77	0.48
1:r:428:GLN:HE22	1:s:351:PRO:HB3	1.78	0.48
1:s:608:ASP:O	1:s:729:ARG:NH2	2.44	0.48
1:t:222:GLY:C	1:6:404:ARG:HD2	2.38	0.48
1:y:341:GLN:HE21	1:y:649:LYS:HD3	1.78	0.48
1:y:518:ASN:HA	1:y:537:SER:HB2	1.94	0.48
1:1:427:SER:HB3	1:1:732:THR:CG2	2.43	0.48
1:2:467:ALA:HA	1:2:470:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:467:ALA:HA	1:4:470:ILE:HD11	1.95	0.48
1:5:423:SER:O	1:5:729:ARG:HA	2.12	0.48
1:5:467:ALA:HA	1:5:470:ILE:HD11	1.95	0.48
1:H:416:GLU:OE2	1:H:640:LYS:N	2.46	0.48
1:H:427:SER:HB3	1:H:732:THR:CG2	2.43	0.48
1:I:341:GLN:HE21	1:I:649:LYS:HD3	1.78	0.48
1:J:467:ALA:HA	1:J:470:ILE:HD11	1.95	0.48
1:K:427:SER:HB3	1:K:732:THR:CG2	2.43	0.48
1:M:222:GLY:C	1:N:404:ARG:HD2	2.37	0.48
1:O:351:PRO:HB3	1:n:428:GLN:HE22	1.77	0.48
1:Q:518:ASN:HA	1:Q:537:SER:HB2	1.94	0.48
1:T:467:ALA:HA	1:T:470:ILE:HD11	1.95	0.48
1:X:689:GLU:OE2	1:X:691:SER:OG	2.26	0.48
1:Y:416:GLU:OE2	1:Y:640:LYS:N	2.46	0.48
1:b:467:ALA:HA	1:b:470:ILE:HD11	1.95	0.48
1:c:416:GLU:OE2	1:c:640:LYS:N	2.47	0.48
1:e:423:SER:O	1:e:729:ARG:HA	2.12	0.48
1:e:434:MET:SD	1:e:434:MET:N	2.85	0.48
1:g:341:GLN:HE21	1:g:649:LYS:HD3	1.78	0.48
1:h:341:GLN:HE21	1:h:649:LYS:HD3	1.78	0.48
1:j:434:MET:N	1:j:434:MET:SD	2.85	0.48
1:o:423:SER:O	1:o:729:ARG:HA	2.12	0.48
1:x:427:SER:HB3	1:x:732:THR:CG2	2.43	0.48
1:7:434:MET:N	1:7:434:MET:SD	2.85	0.48
1:8:518:ASN:HA	1:8:537:SER:HB2	1.94	0.48
1:A:427:SER:HB3	1:A:732:THR:CG2	2.43	0.48
1:B:341:GLN:HE21	1:B:649:LYS:HD3	1.78	0.48
1:C:447:ARG:CD	1:C:461:GLN:OE1	2.62	0.48
1:C:701:THR:HG23	1:L:699:GLN:H	1.79	0.48
1:D:518:ASN:HA	1:D:537:SER:HB2	1.94	0.48
1:L:341:GLN:HE21	1:L:649:LYS:HD3	1.78	0.48
1:L:518:ASN:HA	1:L:537:SER:HB2	1.94	0.48
1:S:416:GLU:OE2	1:S:640:LYS:N	2.47	0.48
1:Z:416:GLU:OE2	1:Z:640:LYS:N	2.47	0.48
1:a:423:SER:O	1:a:729:ARG:HA	2.12	0.48
1:f:427:SER:HB3	1:f:732:THR:CG2	2.43	0.48
1:f:518:ASN:HA	1:f:537:SER:HB2	1.94	0.48
1:g:423:SER:O	1:g:729:ARG:HA	2.12	0.48
1:g:689:GLU:OE2	1:g:691:SER:OG	2.26	0.48
1:i:341:GLN:HE21	1:i:649:LYS:HD3	1.78	0.48
1:k:467:ALA:HA	1:k:470:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:447:ARG:CD	1:l:461:GLN:OE1	2.62	0.48
1:n:447:ARG:CD	1:n:461:GLN:OE1	2.62	0.48
1:o:427:SER:HB3	1:o:732:THR:CG2	2.43	0.48
1:p:341:GLN:HE21	1:p:649:LYS:HD3	1.78	0.48
1:u:416:GLU:OE2	1:u:640:LYS:N	2.47	0.48
1:v:416:GLU:OE2	1:v:640:LYS:N	2.47	0.48
1:w:341:GLN:HE21	1:w:649:LYS:HD3	1.78	0.48
1:w:518:ASN:HA	1:w:537:SER:HB2	1.94	0.48
1:1:416:GLU:OE2	1:1:640:LYS:N	2.47	0.48
1:4:518:ASN:HA	1:4:537:SER:HB2	1.94	0.48
1:7:423:SER:O	1:7:729:ARG:HA	2.12	0.48
1:A:447:ARG:CD	1:A:461:GLN:OE1	2.62	0.48
1:E:416:GLU:OE2	1:E:640:LYS:N	2.46	0.48
1:E:620:LYS:HB2	1:E:642:PRO:HG3	1.96	0.48
1:G:518:ASN:HA	1:G:537:SER:HB2	1.94	0.48
1:I:518:ASN:HA	1:I:537:SER:HB2	1.94	0.48
1:K:341:GLN:HE21	1:K:649:LYS:HD3	1.78	0.48
1:L:620:LYS:HB2	1:L:642:PRO:HG3	1.96	0.48
1:O:416:GLU:OE2	1:O:640:LYS:N	2.46	0.48
1:O:428:GLN:HE22	1:m:351:PRO:HB3	1.77	0.48
1:Q:341:GLN:HE21	1:Q:649:LYS:HD3	1.78	0.48
1:R:341:GLN:HE21	1:R:649:LYS:HD3	1.78	0.48
1:S:341:GLN:HE21	1:S:649:LYS:HD3	1.78	0.48
1:T:341:GLN:HE21	1:T:649:LYS:HD3	1.78	0.48
1:T:423:SER:O	1:T:729:ARG:HA	2.12	0.48
1:T:427:SER:HB3	1:T:732:THR:CG2	2.43	0.48
1:U:427:SER:HB3	1:U:732:THR:CG2	2.43	0.48
1:V:416:GLU:OE2	1:V:640:LYS:N	2.46	0.48
1:V:620:LYS:HB2	1:V:642:PRO:HG3	1.96	0.48
1:a:689:GLU:OE2	1:a:691:SER:OG	2.26	0.48
1:c:341:GLN:HE21	1:c:649:LYS:HD3	1.78	0.48
1:e:467:ALA:HA	1:e:470:ILE:HD11	1.95	0.48
1:e:689:GLU:OE2	1:e:691:SER:OG	2.26	0.48
1:h:427:SER:HB3	1:h:732:THR:CG2	2.43	0.48
1:i:620:LYS:HB2	1:i:642:PRO:HG3	1.96	0.48
1:j:341:GLN:HE21	1:j:649:LYS:HD3	1.78	0.48
1:r:416:GLU:OE2	1:r:640:LYS:N	2.46	0.48
1:s:518:ASN:HA	1:s:537:SER:HB2	1.94	0.48
1:v:427:SER:HB3	1:v:732:THR:CG2	2.43	0.48
1:5:620:LYS:HB2	1:5:642:PRO:HG3	1.96	0.48
1:6:620:LYS:HB2	1:6:642:PRO:HG3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:467:ALA:HA	1:7:470:ILE:HD11	1.95	0.48
1:8:427:SER:HB3	1:8:732:THR:CG2	2.43	0.48
1:B:416:GLU:OE2	1:B:640:LYS:N	2.46	0.48
1:B:620:LYS:HB2	1:B:642:PRO:HG3	1.96	0.48
1:C:518:ASN:HA	1:C:537:SER:HB2	1.94	0.48
1:D:447:ARG:CD	1:D:461:GLN:OE1	2.62	0.48
1:G:467:ALA:HA	1:G:470:ILE:HD11	1.95	0.48
1:I:427:SER:HB3	1:I:732:THR:CG2	2.43	0.48
1:J:608:ASP:O	1:J:729:ARG:NH2	2.44	0.48
1:N:416:GLU:OE2	1:N:640:LYS:N	2.46	0.48
1:N:447:ARG:CD	1:N:461:GLN:OE1	2.62	0.48
1:O:434:MET:N	1:O:434:MET:SD	2.85	0.48
1:O:447:ARG:CD	1:O:461:GLN:OE1	2.62	0.48
1:O:467:ALA:HA	1:O:470:ILE:HD11	1.95	0.48
1:P:427:SER:HB3	1:P:732:THR:CG2	2.43	0.48
1:W:447:ARG:CD	1:W:461:GLN:OE1	2.62	0.48
1:a:447:ARG:CD	1:a:461:GLN:OE1	2.62	0.48
1:e:341:GLN:HE21	1:e:649:LYS:HD3	1.78	0.48
1:g:447:ARG:CD	1:g:461:GLN:OE1	2.62	0.48
1:i:518:ASN:HA	1:i:537:SER:HB2	1.94	0.48
1:j:620:LYS:HB2	1:j:642:PRO:HG3	1.96	0.48
1:m:427:SER:HB3	1:m:732:THR:CG2	2.43	0.48
1:r:620:LYS:HB2	1:r:642:PRO:HG3	1.96	0.48
1:u:423:SER:O	1:u:729:ARG:HA	2.12	0.48
1:x:447:ARG:CD	1:x:461:GLN:OE1	2.62	0.48
1:y:467:ALA:HA	1:y:470:ILE:HD11	1.95	0.48
1:1:620:LYS:HB2	1:1:642:PRO:HG3	1.96	0.48
1:2:416:GLU:OE2	1:2:640:LYS:N	2.46	0.48
1:2:518:ASN:HA	1:2:537:SER:HB2	1.94	0.48
1:4:416:GLU:OE2	1:4:640:LYS:N	2.46	0.48
1:6:229:HIS:O	1:6:244:THR:OG1	2.22	0.48
1:6:416:GLU:OE2	1:6:640:LYS:N	2.46	0.48
1:7:341:GLN:HE21	1:7:649:LYS:HD3	1.78	0.48
1:7:447:ARG:CD	1:7:461:GLN:OE1	2.62	0.48
1:C:620:LYS:HB2	1:C:642:PRO:HG3	1.96	0.48
1:D:620:LYS:HB2	1:D:642:PRO:HG3	1.96	0.48
1:F:447:ARG:CD	1:F:461:GLN:OE1	2.62	0.48
1:K:416:GLU:OE2	1:K:640:LYS:N	2.46	0.48
1:M:620:LYS:HB2	1:M:642:PRO:HG3	1.96	0.48
1:N:434:MET:N	1:N:434:MET:SD	2.85	0.48
1:N:467:ALA:HA	1:N:470:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:620:LYS:HB2	1:Q:642:PRO:HG3	1.96	0.48
1:U:416:GLU:OE2	1:U:640:LYS:N	2.46	0.48
1:Y:423:SER:O	1:Y:729:ARG:HA	2.12	0.48
1:Z:341:GLN:HE21	1:Z:649:LYS:HD3	1.78	0.48
1:Z:620:LYS:HB2	1:Z:642:PRO:HG3	1.96	0.48
1:b:341:GLN:HE21	1:b:649:LYS:HD3	1.78	0.48
1:b:423:SER:O	1:b:729:ARG:HA	2.12	0.48
1:b:427:SER:HB3	1:b:732:THR:CG2	2.43	0.48
1:e:447:ARG:CD	1:e:461:GLN:OE1	2.62	0.48
1:h:416:GLU:OE2	1:h:640:LYS:N	2.46	0.48
1:j:416:GLU:OE2	1:j:640:LYS:N	2.46	0.48
1:l:518:ASN:HA	1:l:537:SER:HB2	1.94	0.48
1:s:341:GLN:HE21	1:s:649:LYS:HD3	1.79	0.48
1:t:447:ARG:CD	1:t:461:GLN:OE1	2.62	0.48
1:v:341:GLN:HE21	1:v:649:LYS:HD3	1.78	0.48
1:w:427:SER:HB3	1:w:732:THR:CG2	2.43	0.48
1:D:416:GLU:OE2	1:D:640:LYS:N	2.47	0.48
1:D:562:GLU:OE2	1:D:612:TYR:OH	2.27	0.48
1:L:427:SER:HB3	1:L:732:THR:CG2	2.43	0.48
1:M:416:GLU:OE2	1:M:640:LYS:N	2.46	0.48
1:R:563:GLU:N	1:R:563:GLU:OE1	2.47	0.48
1:S:434:MET:N	1:S:434:MET:SD	2.85	0.48
1:X:620:LYS:HB2	1:X:642:PRO:HG3	1.96	0.48
1:Y:341:GLN:HE21	1:Y:649:LYS:HD3	1.78	0.48
1:Z:447:ARG:CD	1:Z:461:GLN:OE1	2.62	0.48
1:a:416:GLU:OE2	1:a:640:LYS:N	2.47	0.48
1:c:434:MET:N	1:c:434:MET:SD	2.85	0.48
1:d:416:GLU:OE2	1:d:640:LYS:N	2.47	0.48
1:g:416:GLU:OE2	1:g:640:LYS:N	2.46	0.48
1:k:447:ARG:CD	1:k:461:GLN:OE1	2.62	0.48
1:k:608:ASP:O	1:k:729:ARG:NH2	2.44	0.48
1:l:467:ALA:HA	1:l:470:ILE:HD11	1.95	0.48
1:n:620:LYS:HB2	1:n:642:PRO:HG3	1.96	0.48
1:o:416:GLU:OE2	1:o:640:LYS:N	2.46	0.48
1:p:518:ASN:HA	1:p:537:SER:HB2	1.94	0.48
1:p:563:GLU:OE1	1:p:563:GLU:N	2.47	0.48
1:q:447:ARG:CD	1:q:461:GLN:OE1	2.62	0.48
1:r:447:ARG:CD	1:r:461:GLN:OE1	2.62	0.48
1:s:416:GLU:OE2	1:s:640:LYS:N	2.47	0.48
1:s:620:LYS:HB2	1:s:642:PRO:HG3	1.96	0.48
1:u:341:GLN:HE21	1:u:649:LYS:HD3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:608:ASP:O	1:v:729:ARG:NH2	2.44	0.48
1:C:467:ALA:HA	1:C:470:ILE:HD11	1.95	0.48
1:E:341:GLN:HE21	1:E:649:LYS:HD3	1.78	0.48
1:E:447:ARG:CD	1:E:461:GLN:OE1	2.62	0.48
1:G:416:GLU:OE2	1:G:640:LYS:N	2.47	0.48
1:G:563:GLU:N	1:G:563:GLU:OE1	2.47	0.48
1:H:341:GLN:HE21	1:H:649:LYS:HD3	1.78	0.48
1:H:447:ARG:CD	1:H:461:GLN:OE1	2.62	0.48
1:I:447:ARG:CD	1:I:461:GLN:OE1	2.62	0.48
1:J:341:GLN:HE21	1:J:649:LYS:HD3	1.78	0.48
1:J:447:ARG:CD	1:J:461:GLN:OE1	2.62	0.48
1:K:222:GLY:C	1:L:404:ARG:HD2	2.39	0.48
1:M:467:ALA:HA	1:M:470:ILE:HD11	1.95	0.48
1:Q:416:GLU:OE2	1:Q:640:LYS:N	2.47	0.48
1:R:434:MET:SD	1:R:434:MET:N	2.85	0.48
1:R:518:ASN:HA	1:R:537:SER:HB2	1.94	0.48
1:V:447:ARG:CD	1:V:461:GLN:OE1	2.62	0.48
1:W:341:GLN:HE21	1:W:649:LYS:HD3	1.78	0.48
1:Y:518:ASN:HA	1:Y:537:SER:HB2	1.94	0.48
1:d:620:LYS:HB2	1:d:642:PRO:HG3	1.96	0.48
1:n:416:GLU:OE2	1:n:640:LYS:N	2.46	0.48
1:p:404:ARG:HD2	1:6:222:GLY:C	2.38	0.48
1:s:427:SER:HB3	1:s:732:THR:CG2	2.43	0.48
1:t:341:GLN:HE21	1:t:649:LYS:HD3	1.78	0.48
1:u:518:ASN:HA	1:u:537:SER:HB2	1.94	0.48
1:y:427:SER:HB3	1:y:732:THR:CG2	2.43	0.48
1:l:341:GLN:HE21	1:l:649:LYS:HD3	1.78	0.48
1:7:689:GLU:OE2	1:7:691:SER:OG	2.26	0.48
1:A:620:LYS:HB2	1:A:642:PRO:HG3	1.96	0.48
1:E:467:ALA:HA	1:E:470:ILE:HD11	1.95	0.48
1:F:620:LYS:HB2	1:F:642:PRO:HG3	1.96	0.48
1:H:608:ASP:O	1:H:729:ARG:NH2	2.44	0.48
1:J:427:SER:HB3	1:J:732:THR:CG2	2.43	0.48
1:L:689:GLU:OE2	1:L:691:SER:OG	2.26	0.48
1:M:351:PRO:HB3	1:b:428:GLN:HE22	1.79	0.48
1:O:222:GLY:C	1:P:404:ARG:HD2	2.39	0.48
1:O:620:LYS:HB2	1:O:642:PRO:HG3	1.96	0.48
1:T:563:GLU:OE1	1:T:563:GLU:N	2.47	0.48
1:U:620:LYS:HB2	1:U:642:PRO:HG3	1.96	0.48
1:X:416:GLU:OE2	1:X:640:LYS:N	2.47	0.48
1:a:608:ASP:O	1:a:729:ARG:NH2	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:416:GLU:OE2	1:b:640:LYS:N	2.46	0.48
1:d:467:ALA:HA	1:d:470:ILE:HD11	1.95	0.48
1:e:416:GLU:OE2	1:e:640:LYS:N	2.46	0.48
1:g:608:ASP:O	1:g:729:ARG:NH2	2.44	0.48
1:i:427:SER:HB3	1:i:732:THR:CG2	2.43	0.48
1:l:620:LYS:HB2	1:l:642:PRO:HG3	1.96	0.48
1:m:620:LYS:HB2	1:m:642:PRO:HG3	1.96	0.48
1:q:620:LYS:HB2	1:q:642:PRO:HG3	1.96	0.48
1:r:341:GLN:HE21	1:r:649:LYS:HD3	1.78	0.48
1:r:467:ALA:HA	1:r:470:ILE:HD11	1.95	0.48
1:s:423:SER:O	1:s:729:ARG:HA	2.12	0.48
1:t:434:MET:N	1:t:434:MET:SD	2.85	0.48
1:y:416:GLU:OE2	1:y:640:LYS:N	2.47	0.48
1:y:563:GLU:OE1	1:y:563:GLU:N	2.47	0.48
1:z:229:HIS:O	1:z:244:THR:OG1	2.23	0.48
1:z:620:LYS:HB2	1:z:642:PRO:HG3	1.96	0.48
1:1:608:ASP:O	1:1:729:ARG:NH2	2.44	0.48
1:5:416:GLU:OE2	1:5:640:LYS:N	2.46	0.48
1:6:447:ARG:CD	1:6:461:GLN:OE1	2.62	0.48
1:8:689:GLU:OE2	1:8:691:SER:OG	2.26	0.48
1:G:427:SER:HB3	1:G:732:THR:CG2	2.43	0.47
1:M:427:SER:HB3	1:M:732:THR:CG2	2.43	0.47
1:N:563:GLU:OE1	1:N:563:GLU:N	2.47	0.47
1:N:620:LYS:HB2	1:N:642:PRO:HG3	1.96	0.47
1:Q:423:SER:O	1:Q:729:ARG:HA	2.12	0.47
1:Q:427:SER:HB3	1:Q:732:THR:CG2	2.43	0.47
1:S:620:LYS:HB2	1:S:642:PRO:HG3	1.96	0.47
1:T:416:GLU:OE2	1:T:640:LYS:N	2.46	0.47
1:b:563:GLU:OE1	1:b:563:GLU:N	2.47	0.47
1:g:222:GLY:C	1:1:404:ARG:HD2	2.39	0.47
1:j:222:GLY:C	1:x:404:ARG:HD2	2.39	0.47
1:k:341:GLN:HE21	1:k:649:LYS:HD3	1.78	0.47
1:k:427:SER:HB3	1:k:732:THR:CG2	2.43	0.47
1:t:416:GLU:OE2	1:t:640:LYS:N	2.47	0.47
1:v:447:ARG:CD	1:v:461:GLN:OE1	2.62	0.47
1:w:447:ARG:CD	1:w:461:GLN:OE1	2.62	0.47
1:w:689:GLU:OE2	1:w:691:SER:OG	2.26	0.47
1:3:620:LYS:HB2	1:3:642:PRO:HG3	1.96	0.47
1:4:620:LYS:HB2	1:4:642:PRO:HG3	1.96	0.47
1:7:416:GLU:OE2	1:7:640:LYS:N	2.46	0.47
1:7:620:LYS:HB2	1:7:642:PRO:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:563:GLU:OE1	1:H:563:GLU:N	2.47	0.47
1:I:416:GLU:OE2	1:I:640:LYS:N	2.46	0.47
1:L:222:GLY:C	1:b:404:ARG:HD2	2.39	0.47
1:O:341:GLN:HE21	1:O:649:LYS:HD3	1.78	0.47
1:O:518:ASN:HA	1:O:537:SER:HB2	1.94	0.47
1:O:563:GLU:OE1	1:O:563:GLU:N	2.47	0.47
1:P:222:GLY:C	1:Q:404:ARG:HD2	2.39	0.47
1:P:341:GLN:HE21	1:P:649:LYS:HD3	1.78	0.47
1:P:447:ARG:CD	1:P:461:GLN:OE1	2.62	0.47
1:R:416:GLU:OE2	1:R:640:LYS:N	2.46	0.47
1:S:222:GLY:C	1:d:404:ARG:HD2	2.39	0.47
1:S:447:ARG:CD	1:S:461:GLN:OE1	2.62	0.47
1:V:341:GLN:HE21	1:V:649:LYS:HD3	1.78	0.47
1:W:416:GLU:OE2	1:W:640:LYS:N	2.46	0.47
1:X:563:GLU:OE1	1:X:563:GLU:N	2.47	0.47
1:a:427:SER:HB3	1:a:732:THR:CG2	2.43	0.47
1:c:620:LYS:HB2	1:c:642:PRO:HG3	1.96	0.47
1:i:689:GLU:OE2	1:i:691:SER:OG	2.26	0.47
1:m:341:GLN:HE21	1:m:649:LYS:HD3	1.78	0.47
1:o:620:LYS:HB2	1:o:642:PRO:HG3	1.96	0.47
1:p:416:GLU:OE2	1:p:640:LYS:N	2.46	0.47
1:v:404:ARG:HD2	1:l:222:GLY:C	2.39	0.47
1:v:563:GLU:OE1	1:v:563:GLU:N	2.47	0.47
1:x:620:LYS:HB2	1:x:642:PRO:HG3	1.96	0.47
1:2:620:LYS:HB2	1:2:642:PRO:HG3	1.96	0.47
1:3:229:HIS:O	1:3:244:THR:OG1	2.23	0.47
1:4:689:GLU:OE2	1:4:691:SER:OG	2.26	0.47
1:A:467:ALA:HA	1:A:470:ILE:HD11	1.95	0.47
1:F:416:GLU:OE2	1:F:640:LYS:N	2.47	0.47
1:G:689:GLU:OE2	1:G:691:SER:OG	2.26	0.47
1:I:620:LYS:HB2	1:I:642:PRO:HG3	1.96	0.47
1:J:416:GLU:OE2	1:J:640:LYS:N	2.46	0.47
1:J:620:LYS:HB2	1:J:642:PRO:HG3	1.96	0.47
1:M:608:ASP:O	1:M:729:ARG:NH2	2.44	0.47
1:N:341:GLN:HE21	1:N:649:LYS:HD3	1.78	0.47
1:U:447:ARG:CD	1:U:461:GLN:OE1	2.62	0.47
1:Z:608:ASP:O	1:Z:729:ARG:NH2	2.44	0.47
1:c:447:ARG:CD	1:c:461:GLN:OE1	2.62	0.47
1:d:427:SER:HB3	1:d:732:THR:CG2	2.43	0.47
1:e:620:LYS:HB2	1:e:642:PRO:HG3	1.96	0.47
1:k:416:GLU:OE2	1:k:640:LYS:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:620:LYS:HB2	1:k:642:PRO:HG3	1.96	0.47
1:m:447:ARG:CD	1:m:461:GLN:OE1	2.62	0.47
1:q:467:ALA:HA	1:q:470:ILE:HD11	1.95	0.47
1:q:689:GLU:OE2	1:q:691:SER:OG	2.26	0.47
1:w:416:GLU:OE2	1:w:640:LYS:N	2.46	0.47
1:w:620:LYS:HB2	1:w:642:PRO:HG3	1.96	0.47
1:x:467:ALA:HA	1:x:470:ILE:HD11	1.95	0.47
1:5:563:GLU:OE1	1:5:563:GLU:N	2.47	0.47
1:B:356:SER:HB2	1:B:358:HIS:CD2	2.50	0.47
1:C:341:GLN:HE21	1:C:649:LYS:HD3	1.78	0.47
1:I:222:GLY:C	1:J:404:ARG:HD2	2.39	0.47
1:L:356:SER:HB2	1:L:358:HIS:CD2	2.50	0.47
1:L:447:ARG:CD	1:L:461:GLN:OE1	2.62	0.47
1:L:467:ALA:HA	1:L:470:ILE:HD11	1.95	0.47
1:N:518:ASN:HA	1:N:537:SER:HB2	1.94	0.47
1:P:620:LYS:HB2	1:P:642:PRO:HG3	1.96	0.47
1:Q:447:ARG:CD	1:Q:461:GLN:OE1	2.62	0.47
1:Y:222:GLY:C	1:4:404:ARG:HD2	2.40	0.47
1:f:447:ARG:CD	1:f:461:GLN:OE1	2.62	0.47
1:g:427:SER:HB3	1:g:732:THR:CG2	2.43	0.47
1:i:467:ALA:HA	1:i:470:ILE:HD11	1.95	0.47
1:l:341:GLN:HE21	1:l:649:LYS:HD3	1.78	0.47
1:m:222:GLY:C	1:s:404:ARG:HD2	2.40	0.47
1:o:434:MET:N	1:o:434:MET:SD	2.85	0.47
1:o:447:ARG:CD	1:o:461:GLN:OE1	2.62	0.47
1:p:434:MET:SD	1:p:434:MET:N	2.85	0.47
1:p:447:ARG:CD	1:p:461:GLN:OE1	2.62	0.47
1:q:341:GLN:HE21	1:q:649:LYS:HD3	1.78	0.47
1:q:416:GLU:OE2	1:q:640:LYS:N	2.46	0.47
1:r:404:ARG:HD2	1:x:222:GLY:C	2.38	0.47
1:s:447:ARG:CD	1:s:461:GLN:OE1	2.62	0.47
1:2:222:GLY:C	1:3:404:ARG:HD2	2.39	0.47
1:4:341:GLN:HE21	1:4:649:LYS:HD3	1.78	0.47
1:6:341:GLN:HE21	1:6:649:LYS:HD3	1.78	0.47
1:8:447:ARG:CD	1:8:461:GLN:OE1	2.62	0.47
1:8:563:GLU:OE1	1:8:563:GLU:N	2.47	0.47
1:E:434:MET:SD	1:E:434:MET:N	2.85	0.47
1:F:467:ALA:HA	1:F:470:ILE:HD11	1.95	0.47
1:I:689:GLU:OE2	1:I:691:SER:OG	2.26	0.47
1:J:356:SER:HB2	1:J:358:HIS:CD2	2.50	0.47
1:K:447:ARG:CD	1:K:461:GLN:OE1	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:447:ARG:CD	1:R:461:GLN:OE1	2.62	0.47
1:U:434:MET:SD	1:U:434:MET:N	2.85	0.47
1:V:467:ALA:HA	1:V:470:ILE:HD11	1.95	0.47
1:X:447:ARG:CD	1:X:461:GLN:OE1	2.62	0.47
1:Y:356:SER:HB2	1:Y:358:HIS:CD2	2.50	0.47
1:Z:434:MET:N	1:Z:434:MET:SD	2.85	0.47
1:b:620:LYS:HB2	1:b:642:PRO:HG3	1.96	0.47
1:f:563:GLU:OE1	1:f:563:GLU:N	2.47	0.47
1:h:447:ARG:CD	1:h:461:GLN:OE1	2.62	0.47
1:h:518:ASN:HA	1:h:537:SER:HB2	1.94	0.47
1:i:356:SER:HB2	1:i:358:HIS:CD2	2.50	0.47
1:i:447:ARG:CD	1:i:461:GLN:OE1	2.62	0.47
1:l:416:GLU:OE2	1:l:640:LYS:N	2.47	0.47
1:x:416:GLU:OE2	1:x:640:LYS:N	2.46	0.47
1:y:447:ARG:CD	1:y:461:GLN:OE1	2.62	0.47
1:y:620:LYS:HB2	1:y:642:PRO:HG3	1.96	0.47
1:1:434:MET:N	1:1:434:MET:SD	2.85	0.47
1:2:341:GLN:HE21	1:2:649:LYS:HD3	1.78	0.47
1:2:689:GLU:OE2	1:2:691:SER:OG	2.26	0.47
1:3:447:ARG:CD	1:3:461:GLN:OE1	2.62	0.47
1:6:467:ALA:HA	1:6:470:ILE:HD11	1.95	0.47
1:A:356:SER:HB2	1:A:358:HIS:CD2	2.50	0.47
1:A:404:ARG:HD2	1:B:222:GLY:C	2.39	0.47
1:A:416:GLU:OE2	1:A:640:LYS:N	2.46	0.47
1:D:563:GLU:N	1:D:563:GLU:OE1	2.47	0.47
1:F:689:GLU:OE2	1:F:691:SER:OG	2.26	0.47
1:P:356:SER:HB2	1:P:358:HIS:CD2	2.50	0.47
1:Q:356:SER:HB2	1:Q:358:HIS:CD2	2.50	0.47
1:T:620:LYS:HB2	1:T:642:PRO:HG3	1.96	0.47
1:U:222:GLY:C	1:e:404:ARG:HD2	2.40	0.47
1:Z:467:ALA:HA	1:Z:470:ILE:HD11	1.95	0.47
1:a:620:LYS:HB2	1:a:642:PRO:HG3	1.96	0.47
1:d:341:GLN:HE21	1:d:649:LYS:HD3	1.78	0.47
1:d:608:ASP:O	1:d:729:ARG:NH2	2.44	0.47
1:j:356:SER:HB2	1:j:358:HIS:CD2	2.50	0.47
1:j:447:ARG:CD	1:j:461:GLN:OE1	2.62	0.47
1:k:356:SER:HB2	1:k:358:HIS:CD2	2.50	0.47
1:n:563:GLU:OE1	1:n:563:GLU:N	2.47	0.47
1:s:356:SER:HB2	1:s:358:HIS:CD2	2.50	0.47
1:u:356:SER:HB2	1:u:358:HIS:CD2	2.50	0.47
1:x:341:GLN:HE21	1:x:649:LYS:HD3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:356:SER:HB2	1:x:358:HIS:CD2	2.50	0.47
1:z:447:ARG:CD	1:z:461:GLN:OE1	2.62	0.47
1:z:467:ALA:HA	1:z:470:ILE:HD11	1.95	0.47
1:1:467:ALA:HA	1:1:470:ILE:HD11	1.95	0.47
1:3:222:GLY:C	1:8:404:ARG:HD2	2.39	0.47
1:5:447:ARG:CD	1:5:461:GLN:OE1	2.62	0.47
1:6:471:ARG:HD2	1:7:502:TRP:CH2	2.50	0.47
1:8:341:GLN:HE21	1:8:649:LYS:HD3	1.78	0.47
1:A:341:GLN:HE21	1:A:649:LYS:HD3	1.78	0.47
1:A:563:GLU:OE1	1:A:563:GLU:N	2.47	0.47
1:B:447:ARG:CD	1:B:461:GLN:OE1	2.62	0.47
1:C:356:SER:HB2	1:C:358:HIS:CD2	2.50	0.47
1:C:416:GLU:OE2	1:C:640:LYS:N	2.46	0.47
1:F:341:GLN:HE21	1:F:649:LYS:HD3	1.78	0.47
1:G:222:GLY:C	1:W:404:ARG:HD2	2.40	0.47
1:G:620:LYS:HB2	1:G:642:PRO:HG3	1.96	0.47
1:H:356:SER:HB2	1:H:358:HIS:CD2	2.50	0.47
1:J:222:GLY:C	1:a:404:ARG:HD2	2.40	0.47
1:K:356:SER:HB2	1:K:358:HIS:CD2	2.50	0.47
1:K:404:ARG:HD2	1:7:222:GLY:C	2.39	0.47
1:K:467:ALA:HA	1:K:470:ILE:HD11	1.95	0.47
1:K:518:ASN:HA	1:K:537:SER:HB2	1.94	0.47
1:M:341:GLN:HE21	1:M:649:LYS:HD3	1.78	0.47
1:M:563:GLU:OE1	1:M:563:GLU:N	2.47	0.47
1:N:222:GLY:C	1:m:404:ARG:HD2	2.40	0.47
1:P:563:GLU:OE1	1:P:563:GLU:N	2.47	0.47
1:T:356:SER:HB2	1:T:358:HIS:CD2	2.50	0.47
1:T:608:ASP:O	1:T:729:ARG:NH2	2.44	0.47
1:W:620:LYS:HB2	1:W:642:PRO:HG3	1.96	0.47
1:X:341:GLN:HE21	1:X:649:LYS:HD3	1.78	0.47
1:Y:620:LYS:HB2	1:Y:642:PRO:HG3	1.96	0.47
1:Z:356:SER:HB2	1:Z:358:HIS:CD2	2.50	0.47
1:c:404:ARG:HD2	1:s:222:GLY:C	2.39	0.47
1:g:620:LYS:HB2	1:g:642:PRO:HG3	1.96	0.47
1:h:356:SER:HB2	1:h:358:HIS:CD2	2.50	0.47
1:l:356:SER:HB2	1:l:358:HIS:CD2	2.50	0.47
1:m:356:SER:HB2	1:m:358:HIS:CD2	2.50	0.47
1:m:416:GLU:OE2	1:m:640:LYS:N	2.46	0.47
1:r:434:MET:N	1:r:434:MET:SD	2.85	0.47
1:t:404:ARG:HD2	1:y:222:GLY:C	2.40	0.47
1:v:356:SER:HB2	1:v:358:HIS:CD2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:563:GLU:OE1	1:x:563:GLU:N	2.47	0.47
1:y:434:MET:N	1:y:434:MET:SD	2.85	0.47
1:y:689:GLU:OE2	1:y:691:SER:OG	2.26	0.47
1:z:404:ARG:HD2	1:4:222:GLY:C	2.40	0.47
1:2:447:ARG:CD	1:2:461:GLN:OE1	2.62	0.47
1:3:356:SER:HB2	1:3:358:HIS:CD2	2.50	0.47
1:3:467:ALA:HA	1:3:470:ILE:HD11	1.95	0.47
1:4:447:ARG:CD	1:4:461:GLN:OE1	2.62	0.47
1:8:416:GLU:OE2	1:8:640:LYS:N	2.46	0.47
1:D:404:ARG:HD2	1:E:222:GLY:C	2.39	0.47
1:G:434:MET:N	1:G:434:MET:SD	2.85	0.47
1:H:222:GLY:C	1:I:404:ARG:HD2	2.39	0.47
1:I:356:SER:HB2	1:I:358:HIS:CD2	2.50	0.47
1:P:689:GLU:OE2	1:P:691:SER:OG	2.26	0.47
1:R:356:SER:HB2	1:R:358:HIS:CD2	2.50	0.47
1:T:222:GLY:C	1:U:404:ARG:HD2	2.40	0.47
1:T:447:ARG:CD	1:T:461:GLN:OE1	2.62	0.47
1:b:356:SER:HB2	1:b:358:HIS:CD2	2.50	0.47
1:e:222:GLY:C	1:h:404:ARG:HD2	2.39	0.47
1:f:341:GLN:HE21	1:f:649:LYS:HD3	1.78	0.47
1:h:467:ALA:HA	1:h:470:ILE:HD11	1.95	0.47
1:m:563:GLU:N	1:m:563:GLU:OE1	2.47	0.47
1:v:467:ALA:HA	1:v:470:ILE:HD11	1.95	0.47
1:z:356:SER:HB2	1:z:358:HIS:CD2	2.50	0.47
1:1:356:SER:HB2	1:1:358:HIS:CD2	2.50	0.47
1:5:341:GLN:HE21	1:5:649:LYS:HD3	1.78	0.47
1:8:620:LYS:HB2	1:8:642:PRO:HG3	1.96	0.47
1:H:620:LYS:HB2	1:H:642:PRO:HG3	1.96	0.47
1:M:447:ARG:CD	1:M:461:GLN:OE1	2.62	0.47
1:P:416:GLU:OE2	1:P:640:LYS:N	2.46	0.47
1:T:404:ARG:HD2	1:i:222:GLY:C	2.40	0.47
1:V:404:ARG:HD2	1:W:222:GLY:C	2.40	0.47
1:b:447:ARG:CD	1:b:461:GLN:OE1	2.62	0.47
1:b:608:ASP:O	1:b:729:ARG:NH2	2.44	0.47
1:d:471:ARG:HD2	1:l:502:TRP:CH2	2.50	0.47
1:d:563:GLU:OE1	1:d:563:GLU:N	2.47	0.47
1:f:356:SER:HB2	1:f:358:HIS:CD2	2.50	0.47
1:f:416:GLU:OE2	1:f:640:LYS:N	2.46	0.47
1:g:500:TYR:CZ	1:h:448:THR:CG2	2.81	0.47
1:h:222:GLY:C	1:i:404:ARG:HD2	2.39	0.47
1:i:416:GLU:OE2	1:i:640:LYS:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:356:SER:HB2	1:p:358:HIS:CD2	2.50	0.47
1:r:356:SER:HB2	1:r:358:HIS:CD2	2.50	0.47
1:u:448:THR:CG2	1:v:500:TYR:CZ	2.81	0.47
1:u:620:LYS:HB2	1:u:642:PRO:HG3	1.96	0.47
1:z:416:GLU:OE2	1:z:640:LYS:N	2.46	0.47
1:B:563:GLU:OE1	1:B:563:GLU:N	2.47	0.47
1:B:565:ILE:O	1:B:565:ILE:HG22	2.16	0.47
1:D:565:ILE:HG22	1:D:565:ILE:O	2.15	0.47
1:D:608:ASP:O	1:D:729:ARG:NH2	2.44	0.47
1:E:356:SER:HB2	1:E:358:HIS:CD2	2.50	0.47
1:H:467:ALA:HA	1:H:470:ILE:HD11	1.95	0.47
1:K:502:TRP:CH2	1:8:471:ARG:HD2	2.50	0.47
1:L:416:GLU:OE2	1:L:640:LYS:N	2.46	0.47
1:O:404:ARG:HD2	1:d:222:GLY:C	2.39	0.47
1:S:356:SER:HB2	1:S:358:HIS:CD2	2.50	0.47
1:X:222:GLY:C	1:Y:404:ARG:HD2	2.39	0.47
1:b:222:GLY:C	1:o:404:ARG:HD2	2.40	0.47
1:c:502:TRP:CH2	1:p:471:ARG:HD2	2.50	0.47
1:f:565:ILE:O	1:f:565:ILE:HG22	2.15	0.47
1:j:565:ILE:O	1:j:565:ILE:HG22	2.16	0.47
1:l:404:ARG:HD2	1:n:222:GLY:C	2.40	0.47
1:n:404:ARG:HD2	1:r:222:GLY:C	2.39	0.47
1:n:565:ILE:O	1:n:565:ILE:HG22	2.15	0.47
1:o:356:SER:HB2	1:o:358:HIS:CD2	2.50	0.47
1:t:620:LYS:HB2	1:t:642:PRO:HG3	1.96	0.47
1:w:356:SER:HB2	1:w:358:HIS:CD2	2.50	0.47
1:2:356:SER:HB2	1:2:358:HIS:CD2	2.50	0.47
1:3:416:GLU:OE2	1:3:640:LYS:N	2.46	0.47
1:4:356:SER:HB2	1:4:358:HIS:CD2	2.50	0.47
1:8:356:SER:HB2	1:8:358:HIS:CD2	2.50	0.47
1:8:565:ILE:O	1:8:565:ILE:HG22	2.15	0.47
1:A:222:GLY:C	1:E:404:ARG:HD2	2.39	0.46
1:M:224:SER:H	1:N:407:ASN:HD21	1.62	0.46
1:O:356:SER:HB2	1:O:358:HIS:CD2	2.50	0.46
1:O:518:ASN:C	1:O:518:ASN:OD1	2.59	0.46
1:P:229:HIS:O	1:P:244:THR:OG1	2.23	0.46
1:T:565:ILE:HG22	1:T:565:ILE:O	2.15	0.46
1:V:565:ILE:HG22	1:V:565:ILE:O	2.16	0.46
1:W:356:SER:HB2	1:W:358:HIS:CD2	2.50	0.46
1:b:565:ILE:O	1:b:565:ILE:HG22	2.15	0.46
1:c:563:GLU:OE1	1:c:563:GLU:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:447:ARG:CD	1:d:461:GLN:OE1	2.62	0.46
1:h:620:LYS:HB2	1:h:642:PRO:HG3	1.96	0.46
1:j:448:THR:CG2	1:k:500:TYR:CZ	2.81	0.46
1:m:229:HIS:O	1:m:244:THR:OG1	2.23	0.46
1:o:222:GLY:C	1:7:404:ARG:HD2	2.40	0.46
1:v:222:GLY:C	1:w:404:ARG:HD2	2.40	0.46
1:3:434:MET:N	1:3:434:MET:SD	2.85	0.46
1:4:565:ILE:O	1:4:565:ILE:HG22	2.16	0.46
1:6:565:ILE:HG22	1:6:565:ILE:O	2.15	0.46
1:D:356:SER:HB2	1:D:358:HIS:CD2	2.50	0.46
1:F:222:GLY:C	1:G:404:ARG:HD2	2.40	0.46
1:H:404:ARG:HD2	1:Z:222:GLY:C	2.40	0.46
1:N:356:SER:HB2	1:N:358:HIS:CD2	2.50	0.46
1:O:565:ILE:O	1:O:565:ILE:HG22	2.16	0.46
1:P:608:ASP:O	1:P:729:ARG:NH2	2.44	0.46
1:R:471:ARG:HD2	1:S:502:TRP:CH2	2.51	0.46
1:R:620:LYS:HB2	1:R:642:PRO:HG3	1.96	0.46
1:U:356:SER:HB2	1:U:358:HIS:CD2	2.50	0.46
1:V:471:ARG:HD2	1:e:502:TRP:CH2	2.51	0.46
1:a:565:ILE:HG22	1:a:565:ILE:O	2.16	0.46
1:c:356:SER:HB2	1:c:358:HIS:CD2	2.50	0.46
1:f:525:SER:OG	1:f:561:ASP:OD1	2.33	0.46
1:f:620:LYS:HB2	1:f:642:PRO:HG3	1.96	0.46
1:g:404:ARG:HD2	1:k:222:GLY:C	2.40	0.46
1:g:565:ILE:HG22	1:g:565:ILE:O	2.15	0.46
1:j:404:ARG:HD2	1:l:222:GLY:C	2.40	0.46
1:j:563:GLU:OE1	1:j:563:GLU:N	2.47	0.46
1:n:608:ASP:O	1:n:729:ARG:NH2	2.44	0.46
1:t:356:SER:HB2	1:t:358:HIS:CD2	2.50	0.46
1:v:620:LYS:HB2	1:v:642:PRO:HG3	1.96	0.46
1:2:565:ILE:O	1:2:565:ILE:HG22	2.16	0.46
1:F:404:ARG:HD2	1:R:222:GLY:C	2.40	0.46
1:F:565:ILE:HG22	1:F:565:ILE:O	2.15	0.46
1:F:608:ASP:O	1:F:729:ARG:NH2	2.44	0.46
1:G:518:ASN:C	1:G:518:ASN:OD1	2.59	0.46
1:K:620:LYS:HB2	1:K:642:PRO:HG3	1.96	0.46
1:N:518:ASN:C	1:N:518:ASN:OD1	2.59	0.46
1:Q:565:ILE:HG22	1:Q:565:ILE:O	2.15	0.46
1:R:502:TRP:CH2	1:U:471:ARG:HD2	2.51	0.46
1:S:563:GLU:OE1	1:S:563:GLU:N	2.47	0.46
1:W:565:ILE:O	1:W:565:ILE:HG22	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:434:MET:SD	1:Y:434:MET:N	2.85	0.46
1:a:563:GLU:OE1	1:a:563:GLU:N	2.47	0.46
1:i:471:ARG:HD2	1:j:502:TRP:CH2	2.50	0.46
1:n:356:SER:HB2	1:n:358:HIS:CD2	2.50	0.46
1:q:565:ILE:HG22	1:q:565:ILE:O	2.15	0.46
1:q:608:ASP:O	1:q:729:ARG:NH2	2.44	0.46
1:u:434:MET:SD	1:u:434:MET:N	2.85	0.46
1:y:518:ASN:C	1:y:518:ASN:OD1	2.59	0.46
1:B:502:TRP:CH2	1:L:471:ARG:HD2	2.51	0.46
1:B:608:ASP:O	1:B:729:ARG:NH2	2.44	0.46
1:G:356:SER:HB2	1:G:358:HIS:CD2	2.50	0.46
1:L:565:ILE:HG22	1:L:565:ILE:O	2.16	0.46
1:M:356:SER:HB2	1:M:358:HIS:CD2	2.50	0.46
1:N:565:ILE:HG22	1:N:565:ILE:O	2.16	0.46
1:P:697:GLU:HB2	1:P:699:GLN:HE21	1.81	0.46
1:R:404:ARG:HD2	1:V:222:GLY:C	2.40	0.46
1:U:565:ILE:O	1:U:565:ILE:HG22	2.16	0.46
1:W:697:GLU:HB2	1:W:699:GLN:HE21	1.81	0.46
1:Z:404:ARG:HD2	1:a:222:GLY:C	2.41	0.46
1:a:518:ASN:C	1:a:518:ASN:OD1	2.59	0.46
1:g:502:TRP:CH2	1:h:471:ARG:HD2	2.51	0.46
1:i:565:ILE:HG22	1:i:565:ILE:O	2.16	0.46
1:j:471:ARG:HD2	1:k:502:TRP:CH2	2.51	0.46
1:k:563:GLU:OE1	1:k:563:GLU:N	2.47	0.46
1:m:608:ASP:O	1:m:729:ARG:NH2	2.44	0.46
1:o:565:ILE:HG22	1:o:565:ILE:O	2.15	0.46
1:o:697:GLU:HB2	1:o:699:GLN:HE21	1.81	0.46
1:p:620:LYS:HB2	1:p:642:PRO:HG3	1.96	0.46
1:s:565:ILE:O	1:s:565:ILE:HG22	2.16	0.46
1:t:697:GLU:HB2	1:t:699:GLN:HE21	1.81	0.46
1:u:447:ARG:CD	1:u:461:GLN:OE1	2.62	0.46
1:8:525:SER:OG	1:8:561:ASP:OD1	2.33	0.46
1:D:471:ARG:HD2	1:N:502:TRP:CH2	2.51	0.46
1:D:502:TRP:CH2	1:P:471:ARG:HD2	2.51	0.46
1:F:518:ASN:C	1:F:518:ASN:OD1	2.59	0.46
1:H:565:ILE:O	1:H:565:ILE:HG22	2.15	0.46
1:I:518:ASN:C	1:I:518:ASN:OD1	2.59	0.46
1:J:563:GLU:OE1	1:J:563:GLU:N	2.47	0.46
1:J:565:ILE:O	1:J:565:ILE:HG22	2.16	0.46
1:L:608:ASP:O	1:L:729:ARG:NH2	2.44	0.46
1:M:518:ASN:C	1:M:518:ASN:OD1	2.59	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:502:TRP:CH2	1:n:471:ARG:HD2	2.51	0.46
1:S:565:ILE:O	1:S:565:ILE:HG22	2.15	0.46
1:S:697:GLU:HB2	1:S:699:GLN:HE21	1.81	0.46
1:Y:447:ARG:CD	1:Y:461:GLN:OE1	2.62	0.46
1:Z:562:GLU:OE2	1:Z:612:TYR:OH	2.27	0.46
1:c:471:ARG:HD2	1:o:502:TRP:CH2	2.51	0.46
1:d:356:SER:HB2	1:d:358:HIS:CD2	2.50	0.46
1:d:518:ASN:C	1:d:518:ASN:OD1	2.59	0.46
1:e:356:SER:HB2	1:e:358:HIS:CD2	2.50	0.46
1:f:518:ASN:C	1:f:518:ASN:OD1	2.59	0.46
1:g:518:ASN:C	1:g:518:ASN:OD1	2.59	0.46
1:g:563:GLU:OE1	1:g:563:GLU:N	2.47	0.46
1:k:565:ILE:O	1:k:565:ILE:HG22	2.16	0.46
1:l:565:ILE:HG22	1:l:565:ILE:O	2.15	0.46
1:o:471:ARG:HD2	1:p:502:TRP:CH2	2.51	0.46
1:p:222:GLY:C	1:q:404:ARG:HD2	2.40	0.46
1:t:565:ILE:HG22	1:t:565:ILE:O	2.16	0.46
1:w:518:ASN:C	1:w:518:ASN:OD1	2.59	0.46
1:y:356:SER:HB2	1:y:358:HIS:CD2	2.50	0.46
1:6:356:SER:HB2	1:6:358:HIS:CD2	2.50	0.46
1:B:448:THR:CG2	1:J:500:TYR:CZ	2.81	0.46
1:B:471:ARG:HD2	1:J:502:TRP:CH2	2.51	0.46
1:C:565:ILE:HG22	1:C:565:ILE:O	2.16	0.46
1:H:500:TYR:CZ	1:Y:448:THR:CG2	2.82	0.46
1:N:610:ASP:OD1	1:N:611:VAL:N	2.49	0.46
1:O:471:ARG:HD2	1:m:502:TRP:CH2	2.50	0.46
1:O:610:ASP:OD1	1:O:611:VAL:N	2.49	0.46
1:R:697:GLU:HB2	1:R:699:GLN:HE21	1.81	0.46
1:S:518:ASN:C	1:S:518:ASN:OD1	2.59	0.46
1:T:471:ARG:HD2	1:d:502:TRP:CH2	2.50	0.46
1:T:502:TRP:CH2	1:l:471:ARG:HD2	2.51	0.46
1:U:697:GLU:HB2	1:U:699:GLN:HE21	1.81	0.46
1:V:356:SER:HB2	1:V:358:HIS:CD2	2.50	0.46
1:W:518:ASN:C	1:W:518:ASN:OD1	2.59	0.46
1:W:563:GLU:N	1:W:563:GLU:OE1	2.47	0.46
1:a:356:SER:HB2	1:a:358:HIS:CD2	2.50	0.46
1:c:697:GLU:HB2	1:c:699:GLN:HE21	1.81	0.46
1:d:565:ILE:HG22	1:d:565:ILE:O	2.15	0.46
1:d:697:GLU:HB2	1:d:699:GLN:HE21	1.81	0.46
1:f:471:ARG:HD2	1:h:502:TRP:CH2	2.51	0.46
1:j:608:ASP:O	1:j:729:ARG:NH2	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:697:GLU:HB2	1:m:699:GLN:HE21	1.81	0.46
1:n:518:ASN:C	1:n:518:ASN:OD1	2.59	0.46
1:p:697:GLU:HB2	1:p:699:GLN:HE21	1.81	0.46
1:q:518:ASN:C	1:q:518:ASN:OD1	2.59	0.46
1:t:500:TYR:CZ	1:v:448:THR:CG2	2.81	0.46
1:t:502:TRP:CH2	1:v:471:ARG:HD2	2.50	0.46
1:1:447:ARG:CD	1:1:461:GLN:OE1	2.62	0.46
1:5:404:ARG:HD2	1:8:222:GLY:C	2.39	0.46
1:7:356:SER:HB2	1:7:358:HIS:CD2	2.50	0.46
1:F:356:SER:HB2	1:F:358:HIS:CD2	2.50	0.46
1:F:502:TRP:CH2	1:Q:471:ARG:HD2	2.51	0.46
1:G:610:ASP:OD1	1:G:611:VAL:N	2.49	0.46
1:K:448:THR:CG2	1:a:500:TYR:CZ	2.81	0.46
1:K:471:ARG:HD2	1:a:502:TRP:CH2	2.51	0.46
1:M:565:ILE:O	1:M:565:ILE:HG22	2.15	0.46
1:M:697:GLU:HB2	1:M:699:GLN:HE21	1.81	0.46
1:N:697:GLU:HB2	1:N:699:GLN:HE21	1.81	0.46
1:O:697:GLU:HB2	1:O:699:GLN:HE21	1.81	0.46
1:S:471:ARG:HD2	1:U:502:TRP:CH2	2.51	0.46
1:U:610:ASP:OD1	1:U:611:VAL:N	2.49	0.46
1:X:356:SER:HB2	1:X:358:HIS:CD2	2.50	0.46
1:X:434:MET:N	1:X:434:MET:SD	2.85	0.46
1:Z:610:ASP:OD1	1:Z:611:VAL:N	2.49	0.46
1:a:697:GLU:HB2	1:a:699:GLN:HE21	1.81	0.46
1:c:518:ASN:C	1:c:518:ASN:OD1	2.59	0.46
1:c:565:ILE:O	1:c:565:ILE:HG22	2.16	0.46
1:c:610:ASP:OD1	1:c:611:VAL:N	2.49	0.46
1:g:697:GLU:HB2	1:g:699:GLN:HE21	1.81	0.46
1:i:608:ASP:O	1:i:729:ARG:NH2	2.44	0.46
1:k:404:ARG:HD2	1:w:222:GLY:C	2.41	0.46
1:o:610:ASP:OD1	1:o:611:VAL:N	2.49	0.46
1:q:502:TRP:CH2	1:s:471:ARG:HD2	2.51	0.46
1:r:471:ARG:HD2	1:s:502:TRP:CH2	2.50	0.46
1:r:565:ILE:O	1:r:565:ILE:HG22	2.15	0.46
1:t:518:ASN:C	1:t:518:ASN:OD1	2.59	0.46
1:t:563:GLU:OE1	1:t:563:GLU:N	2.47	0.46
1:v:565:ILE:O	1:v:565:ILE:HG22	2.16	0.46
1:w:565:ILE:HG22	1:w:565:ILE:O	2.15	0.46
1:y:610:ASP:OD1	1:y:611:VAL:N	2.49	0.46
1:1:610:ASP:OD1	1:1:611:VAL:N	2.49	0.46
1:2:610:ASP:OD1	1:2:611:VAL:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:563:GLU:OE1	1:3:563:GLU:N	2.47	0.46
1:4:610:ASP:OD1	1:4:611:VAL:N	2.49	0.46
1:5:565:ILE:O	1:5:565:ILE:HG22	2.15	0.46
1:6:563:GLU:OE1	1:6:563:GLU:N	2.47	0.46
1:6:610:ASP:OD1	1:6:611:VAL:N	2.49	0.46
1:8:518:ASN:C	1:8:518:ASN:OD1	2.59	0.46
1:A:565:ILE:HG22	1:A:565:ILE:O	2.16	0.46
1:B:407:ASN:HD21	1:C:224:SER:H	1.64	0.46
1:C:518:ASN:C	1:C:518:ASN:OD1	2.59	0.46
1:D:518:ASN:OD1	1:D:518:ASN:C	2.59	0.46
1:E:565:ILE:O	1:E:565:ILE:HG22	2.15	0.46
1:E:697:GLU:HB2	1:E:699:GLN:HE21	1.81	0.46
1:H:610:ASP:OD1	1:H:611:VAL:N	2.49	0.46
1:I:565:ILE:HG22	1:I:565:ILE:O	2.16	0.46
1:N:471:ARG:HD2	1:P:502:TRP:CH2	2.50	0.46
1:S:610:ASP:OD1	1:S:611:VAL:N	2.49	0.46
1:V:610:ASP:OD1	1:V:611:VAL:N	2.49	0.46
1:Y:518:ASN:C	1:Y:518:ASN:OD1	2.59	0.46
1:l:518:ASN:C	1:l:518:ASN:OD1	2.59	0.46
1:r:697:GLU:HB2	1:r:699:GLN:HE21	1.81	0.46
1:u:222:GLY:C	1:2:404:ARG:HD2	2.41	0.46
1:u:404:ARG:HD2	1:5:222:GLY:C	2.40	0.46
1:x:471:ARG:HD2	1:y:502:TRP:CH2	2.51	0.46
1:z:471:ARG:HD2	1:1:502:TRP:CH2	2.51	0.46
1:2:608:ASP:O	1:2:729:ARG:NH2	2.44	0.46
1:5:356:SER:HB2	1:5:358:HIS:CD2	2.50	0.46
1:5:434:MET:N	1:5:434:MET:SD	2.85	0.46
1:A:608:ASP:O	1:A:729:ARG:NH2	2.44	0.46
1:A:689:GLU:OE2	1:A:691:SER:OG	2.26	0.46
1:B:610:ASP:OD1	1:B:611:VAL:N	2.49	0.46
1:C:563:GLU:OE1	1:C:563:GLU:N	2.47	0.46
1:D:610:ASP:OD1	1:D:611:VAL:N	2.49	0.46
1:F:697:GLU:HB2	1:F:699:GLN:HE21	1.81	0.46
1:J:697:GLU:HB2	1:J:699:GLN:HE21	1.81	0.46
1:Q:222:GLY:C	1:S:404:ARG:HD2	2.40	0.46
1:R:518:ASN:OD1	1:R:518:ASN:C	2.59	0.46
1:R:610:ASP:OD1	1:R:611:VAL:N	2.49	0.46
1:V:563:GLU:OE1	1:V:563:GLU:N	2.47	0.46
1:X:502:TRP:CH2	1:e:471:ARG:HD2	2.51	0.46
1:X:565:ILE:O	1:X:565:ILE:HG22	2.16	0.46
1:Y:348:TYR:OH	1:Y:642:PRO:O	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:356:SER:HB2	1:g:358:HIS:CD2	2.50	0.46
1:j:610:ASP:OD1	1:j:611:VAL:N	2.49	0.46
1:k:697:GLU:HB2	1:k:699:GLN:HE21	1.81	0.46
1:m:471:ARG:HD2	1:n:502:TRP:CH2	2.51	0.46
1:p:610:ASP:OD1	1:p:611:VAL:N	2.49	0.46
1:p:689:GLU:OE2	1:p:691:SER:OG	2.26	0.46
1:q:356:SER:HB2	1:q:358:HIS:CD2	2.50	0.46
1:v:610:ASP:OD1	1:v:611:VAL:N	2.49	0.46
1:x:565:ILE:O	1:x:565:ILE:HG22	2.16	0.46
1:x:689:GLU:OE2	1:x:691:SER:OG	2.26	0.46
1:3:502:TRP:CH2	1:4:471:ARG:HD2	2.51	0.46
1:4:697:GLU:HB2	1:4:699:GLN:HE21	1.81	0.46
1:5:502:TRP:CH2	1:7:471:ARG:HD2	2.51	0.46
1:7:697:GLU:HB2	1:7:699:GLN:HE21	1.81	0.46
1:C:697:GLU:HB2	1:C:699:GLN:HE21	1.81	0.46
1:D:699:GLN:H	1:M:701:THR:HG23	1.80	0.46
1:G:697:GLU:HB2	1:G:699:GLN:HE21	1.81	0.46
1:L:563:GLU:OE1	1:L:563:GLU:N	2.47	0.46
1:L:610:ASP:OD1	1:L:611:VAL:N	2.49	0.46
1:X:608:ASP:O	1:X:729:ARG:NH2	2.44	0.46
1:f:610:ASP:OD1	1:f:611:VAL:N	2.49	0.46
1:l:697:GLU:HB2	1:l:699:GLN:HE21	1.81	0.46
1:p:518:ASN:OD1	1:p:518:ASN:C	2.59	0.46
1:q:697:GLU:HB2	1:q:699:GLN:HE21	1.81	0.46
1:t:229:HIS:O	1:t:244:THR:OG1	2.22	0.46
1:u:518:ASN:OD1	1:u:518:ASN:C	2.59	0.46
1:w:471:ARG:HD2	1:x:502:TRP:CH2	2.50	0.46
1:w:697:GLU:HB2	1:w:699:GLN:HE21	1.81	0.46
1:z:563:GLU:N	1:z:563:GLU:OE1	2.47	0.46
1:z:565:ILE:O	1:z:565:ILE:HG22	2.15	0.46
1:2:697:GLU:HB2	1:2:699:GLN:HE21	1.81	0.46
1:3:610:ASP:OD1	1:3:611:VAL:N	2.49	0.46
1:4:608:ASP:O	1:4:729:ARG:NH2	2.44	0.46
1:6:697:GLU:HB2	1:6:699:GLN:HE21	1.81	0.46
1:B:348:TYR:OH	1:B:642:PRO:O	2.31	0.45
1:E:502:TRP:CH2	1:F:471:ARG:HD2	2.51	0.45
1:E:610:ASP:OD1	1:E:611:VAL:N	2.49	0.45
1:G:447:ARG:CD	1:G:461:GLN:OE1	2.62	0.45
1:I:697:GLU:HB2	1:I:699:GLN:HE21	1.81	0.45
1:J:471:ARG:HD2	1:L:502:TRP:CH2	2.51	0.45
1:L:697:GLU:HB2	1:L:699:GLN:HE21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:697:GLU:HB2	1:Q:699:GLN:HE21	1.81	0.45
1:T:434:MET:N	1:T:434:MET:SD	2.85	0.45
1:X:518:ASN:C	1:X:518:ASN:OD1	2.59	0.45
1:Y:565:ILE:HG22	1:Y:565:ILE:O	2.15	0.45
1:Z:502:TRP:CH2	1:3:471:ARG:HD2	2.51	0.45
1:e:697:GLU:HB2	1:e:699:GLN:HE21	1.81	0.45
1:h:610:ASP:OD1	1:h:611:VAL:N	2.49	0.45
1:i:610:ASP:OD1	1:i:611:VAL:N	2.49	0.45
1:l:563:GLU:OE1	1:l:563:GLU:N	2.47	0.45
1:n:610:ASP:OD1	1:n:611:VAL:N	2.49	0.45
1:q:471:ARG:HD2	1:r:502:TRP:CH2	2.51	0.45
1:r:610:ASP:OD1	1:r:611:VAL:N	2.49	0.45
1:s:697:GLU:HB2	1:s:699:GLN:HE21	1.81	0.45
1:z:610:ASP:OD1	1:z:611:VAL:N	2.49	0.45
1:1:697:GLU:HB2	1:1:699:GLN:HE21	1.81	0.45
1:5:471:ARG:HD2	1:6:502:TRP:CH2	2.51	0.45
1:5:697:GLU:HB2	1:5:699:GLN:HE21	1.81	0.45
1:8:610:ASP:OD1	1:8:611:VAL:N	2.49	0.45
1:K:470:ILE:O	1:K:475:ARG:NH2	2.49	0.45
1:K:608:ASP:O	1:K:729:ARG:NH2	2.44	0.45
1:P:565:ILE:O	1:P:565:ILE:HG22	2.16	0.45
1:S:470:ILE:O	1:S:475:ARG:NH2	2.50	0.45
1:T:565:ILE:HG23	1:T:607:GLN:HB2	1.99	0.45
1:V:565:ILE:HG23	1:V:607:GLN:HB2	1.99	0.45
1:V:697:GLU:HB2	1:V:699:GLN:HE21	1.81	0.45
1:b:610:ASP:OD1	1:b:611:VAL:N	2.49	0.45
1:f:404:ARG:HD2	1:z:222:GLY:C	2.41	0.45
1:f:502:TRP:CH2	1:g:471:ARG:HD2	2.51	0.45
1:h:470:ILE:O	1:h:475:ARG:NH2	2.50	0.45
1:h:697:GLU:HB2	1:h:699:GLN:HE21	1.81	0.45
1:i:563:GLU:OE1	1:i:563:GLU:N	2.47	0.45
1:m:565:ILE:O	1:m:565:ILE:HG22	2.16	0.45
1:o:563:GLU:OE1	1:o:563:GLU:N	2.47	0.45
1:q:222:GLY:C	1:y:404:ARG:HD2	2.41	0.45
1:q:610:ASP:OD1	1:q:611:VAL:N	2.49	0.45
1:y:565:ILE:HG22	1:y:565:ILE:O	2.15	0.45
1:y:697:GLU:HB2	1:y:699:GLN:HE21	1.81	0.45
1:2:518:ASN:C	1:2:518:ASN:OD1	2.59	0.45
1:3:565:ILE:HG22	1:3:565:ILE:O	2.16	0.45
1:4:518:ASN:C	1:4:518:ASN:OD1	2.59	0.45
1:6:608:ASP:O	1:6:729:ARG:NH2	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:471:ARG:HD2	1:G:502:TRP:CH2	2.51	0.45
1:F:610:ASP:OD1	1:F:611:VAL:N	2.49	0.45
1:G:565:ILE:O	1:G:565:ILE:HG22	2.16	0.45
1:K:610:ASP:OD1	1:K:611:VAL:N	2.49	0.45
1:R:565:ILE:HG23	1:R:607:GLN:HB2	1.99	0.45
1:T:470:ILE:O	1:T:475:ARG:NH2	2.50	0.45
1:U:563:GLU:OE1	1:U:563:GLU:N	2.47	0.45
1:W:471:ARG:HD2	1:Y:502:TRP:CH2	2.51	0.45
1:X:697:GLU:HB2	1:X:699:GLN:HE21	1.81	0.45
1:Z:697:GLU:HB2	1:Z:699:GLN:HE21	1.81	0.45
1:a:471:ARG:HD2	1:8:502:TRP:CH2	2.51	0.45
1:b:470:ILE:O	1:b:475:ARG:NH2	2.50	0.45
1:b:565:ILE:HG23	1:b:607:GLN:HB2	1.99	0.45
1:c:470:ILE:O	1:c:475:ARG:NH2	2.50	0.45
1:e:563:GLU:OE1	1:e:563:GLU:N	2.47	0.45
1:g:610:ASP:OD1	1:g:611:VAL:N	2.49	0.45
1:i:697:GLU:HB2	1:i:699:GLN:HE21	1.81	0.45
1:u:471:ARG:HD2	1:v:502:TRP:CH2	2.51	0.45
1:u:565:ILE:O	1:u:565:ILE:HG22	2.15	0.45
1:x:608:ASP:O	1:x:729:ARG:NH2	2.44	0.45
1:5:518:ASN:C	1:5:518:ASN:OD1	2.59	0.45
1:6:565:ILE:HG23	1:6:607:GLN:HB2	1.99	0.45
1:A:502:TRP:CH2	1:I:471:ARG:HD2	2.51	0.45
1:A:518:ASN:C	1:A:518:ASN:OD1	2.59	0.45
1:B:470:ILE:O	1:B:475:ARG:NH2	2.50	0.45
1:C:404:ARG:HD2	1:D:222:GLY:C	2.42	0.45
1:F:565:ILE:HG23	1:F:607:GLN:HB2	1.99	0.45
1:H:471:ARG:HD2	1:W:502:TRP:CH2	2.51	0.45
1:H:502:TRP:CH2	1:Y:471:ARG:HD2	2.51	0.45
1:H:697:GLU:HB2	1:H:699:GLN:HE21	1.81	0.45
1:K:268:ASN:HA	1:K:271:HIS:CD2	2.52	0.45
1:K:697:GLU:HB2	1:K:699:GLN:HE21	1.81	0.45
1:R:689:GLU:OE2	1:R:691:SER:OG	2.26	0.45
1:T:610:ASP:OD1	1:T:611:VAL:N	2.49	0.45
1:Z:448:THR:CG2	1:4:500:TYR:CZ	2.82	0.45
1:a:610:ASP:OD1	1:a:611:VAL:N	2.49	0.45
1:b:434:MET:N	1:b:434:MET:SD	2.85	0.45
1:d:268:ASN:HA	1:d:271:HIS:CD2	2.52	0.45
1:d:610:ASP:OD1	1:d:611:VAL:N	2.49	0.45
1:e:470:ILE:O	1:e:475:ARG:NH2	2.50	0.45
1:k:565:ILE:HG23	1:k:607:GLN:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:565:ILE:HG23	1:p:607:GLN:HB2	1.99	0.45
1:q:565:ILE:HG23	1:q:607:GLN:HB2	1.99	0.45
1:r:518:ASN:C	1:r:518:ASN:OD1	2.59	0.45
1:s:434:MET:N	1:s:434:MET:SD	2.85	0.45
1:s:565:ILE:HG23	1:s:607:GLN:HB2	1.99	0.45
1:t:224:SER:H	1:6:407:ASN:HD21	1.65	0.45
1:z:608:ASP:O	1:z:729:ARG:NH2	2.44	0.45
1:1:448:THR:CG2	1:2:500:TYR:CZ	2.81	0.45
1:1:565:ILE:HG23	1:1:607:GLN:HB2	1.99	0.45
1:4:470:ILE:O	1:4:475:ARG:NH2	2.50	0.45
1:5:608:ASP:O	1:5:729:ARG:NH2	2.44	0.45
1:7:470:ILE:O	1:7:475:ARG:NH2	2.50	0.45
1:8:470:ILE:O	1:8:475:ARG:NH2	2.50	0.45
1:C:584:GLN:NE2	1:b:488:VAL:HG12	2.32	0.45
1:D:268:ASN:HA	1:D:271:HIS:CD2	2.52	0.45
1:E:470:ILE:O	1:E:475:ARG:NH2	2.50	0.45
1:G:565:ILE:HG23	1:G:607:GLN:HB2	1.99	0.45
1:H:470:ILE:O	1:H:475:ARG:NH2	2.50	0.45
1:I:610:ASP:OD1	1:I:611:VAL:N	2.49	0.45
1:J:470:ILE:O	1:J:475:ARG:NH2	2.50	0.45
1:J:518:ASN:C	1:J:518:ASN:OD1	2.59	0.45
1:J:565:ILE:HG23	1:J:607:GLN:HB2	1.99	0.45
1:K:689:GLU:OE2	1:K:691:SER:OG	2.26	0.45
1:M:268:ASN:HA	1:M:271:HIS:CD2	2.52	0.45
1:M:502:TRP:CH2	1:b:471:ARG:HD2	2.52	0.45
1:M:610:ASP:OD1	1:M:611:VAL:N	2.49	0.45
1:N:470:ILE:O	1:N:475:ARG:NH2	2.50	0.45
1:O:470:ILE:O	1:O:475:ARG:NH2	2.50	0.45
1:Q:518:ASN:C	1:Q:518:ASN:OD1	2.59	0.45
1:Q:565:ILE:HG23	1:Q:607:GLN:HB2	1.99	0.45
1:V:608:ASP:O	1:V:729:ARG:NH2	2.44	0.45
1:W:610:ASP:OD1	1:W:611:VAL:N	2.49	0.45
1:Y:565:ILE:HG23	1:Y:607:GLN:HB2	1.99	0.45
1:Z:565:ILE:HG23	1:Z:607:GLN:HB2	1.99	0.45
1:g:348:TYR:OH	1:g:642:PRO:O	2.31	0.45
1:h:268:ASN:HA	1:h:271:HIS:CD2	2.52	0.45
1:h:608:ASP:O	1:h:729:ARG:NH2	2.44	0.45
1:i:502:TRP:CH2	1:k:471:ARG:HD2	2.51	0.45
1:j:470:ILE:O	1:j:475:ARG:NH2	2.50	0.45
1:k:470:ILE:O	1:k:475:ARG:NH2	2.50	0.45
1:k:518:ASN:C	1:k:518:ASN:OD1	2.59	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:610:ASP:OD1	1:k:611:VAL:N	2.49	0.45
1:n:268:ASN:HA	1:n:271:HIS:CD2	2.52	0.45
1:n:697:GLU:HB2	1:n:699:GLN:HE21	1.81	0.45
1:s:518:ASN:C	1:s:518:ASN:OD1	2.59	0.45
1:u:565:ILE:HG23	1:u:607:GLN:HB2	1.99	0.45
1:v:470:ILE:O	1:v:475:ARG:NH2	2.49	0.45
1:x:518:ASN:C	1:x:518:ASN:OD1	2.59	0.45
1:y:565:ILE:HG23	1:y:607:GLN:HB2	1.99	0.45
1:z:502:TRP:CH2	1:2:471:ARG:HD2	2.52	0.45
1:1:471:ARG:HD2	1:2:502:TRP:CH2	2.51	0.45
1:2:470:ILE:O	1:2:475:ARG:NH2	2.50	0.45
1:3:633:LEU:N	1:4:476:ASN:OD1	2.50	0.45
1:7:563:GLU:OE1	1:7:563:GLU:N	2.47	0.45
1:D:697:GLU:HB2	1:D:699:GLN:HE21	1.81	0.45
1:E:471:ARG:HD2	1:Q:502:TRP:CH2	2.51	0.45
1:E:518:ASN:C	1:E:518:ASN:OD1	2.59	0.45
1:G:470:ILE:O	1:G:475:ARG:NH2	2.50	0.45
1:L:518:ASN:OD1	1:L:518:ASN:C	2.59	0.45
1:Q:434:MET:N	1:Q:434:MET:SD	2.85	0.45
1:Q:563:GLU:OE1	1:Q:563:GLU:N	2.47	0.45
1:V:518:ASN:C	1:V:518:ASN:OD1	2.59	0.45
1:W:562:GLU:OE2	1:W:612:TYR:OH	2.27	0.45
1:X:565:ILE:HG23	1:X:607:GLN:HB2	1.99	0.45
1:Y:610:ASP:OD1	1:Y:611:VAL:N	2.49	0.45
1:b:697:GLU:HB2	1:b:699:GLN:HE21	1.81	0.45
1:e:610:ASP:OD1	1:e:611:VAL:N	2.49	0.45
1:f:470:ILE:O	1:f:475:ARG:NH2	2.50	0.45
1:f:697:GLU:HB2	1:f:699:GLN:HE21	1.81	0.45
1:i:518:ASN:C	1:i:518:ASN:OD1	2.59	0.45
1:r:470:ILE:O	1:r:475:ARG:NH2	2.50	0.45
1:t:610:ASP:OD1	1:t:611:VAL:N	2.49	0.45
1:v:518:ASN:C	1:v:518:ASN:OD1	2.59	0.45
1:v:697:GLU:HB2	1:v:699:GLN:HE21	1.81	0.45
1:w:610:ASP:OD1	1:w:611:VAL:N	2.49	0.45
1:7:565:ILE:HG23	1:7:607:GLN:HB2	1.99	0.45
1:7:610:ASP:OD1	1:7:611:VAL:N	2.49	0.45
1:F:563:GLU:OE1	1:F:563:GLU:N	2.47	0.45
1:H:518:ASN:C	1:H:518:ASN:OD1	2.59	0.45
1:J:610:ASP:OD1	1:J:611:VAL:N	2.49	0.45
1:M:565:ILE:HG23	1:M:607:GLN:HB2	1.99	0.45
1:N:565:ILE:HG23	1:N:607:GLN:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:608:ASP:O	1:N:729:ARG:NH2	2.44	0.45
1:O:565:ILE:HG23	1:O:607:GLN:HB2	1.99	0.45
1:P:518:ASN:C	1:P:518:ASN:OD1	2.59	0.45
1:P:610:ASP:OD1	1:P:611:VAL:N	2.49	0.45
1:S:689:GLU:OE2	1:S:691:SER:OG	2.26	0.45
1:T:268:ASN:HA	1:T:271:HIS:CD2	2.52	0.45
1:T:697:GLU:HB2	1:T:699:GLN:HE21	1.81	0.45
1:U:518:ASN:C	1:U:518:ASN:OD1	2.59	0.45
1:X:404:ARG:HD2	1:f:222:GLY:C	2.41	0.45
1:b:268:ASN:HA	1:b:271:HIS:CD2	2.52	0.45
1:h:565:ILE:O	1:h:565:ILE:HG22	2.15	0.45
1:l:610:ASP:OD1	1:l:611:VAL:N	2.49	0.45
1:p:268:ASN:HA	1:p:271:HIS:CD2	2.52	0.45
1:u:610:ASP:OD1	1:u:611:VAL:N	2.49	0.45
1:y:470:ILE:O	1:y:475:ARG:NH2	2.50	0.45
1:z:565:ILE:HG23	1:z:607:GLN:HB2	1.99	0.45
1:1:563:GLU:OE1	1:1:563:GLU:N	2.47	0.45
1:5:565:ILE:HG23	1:5:607:GLN:HB2	1.99	0.45
1:6:518:ASN:C	1:6:518:ASN:OD1	2.59	0.45
1:8:697:GLU:HB2	1:8:699:GLN:HE21	1.81	0.45
1:A:610:ASP:OD1	1:A:611:VAL:N	2.49	0.45
1:C:610:ASP:OD1	1:C:611:VAL:N	2.49	0.45
1:L:470:ILE:O	1:L:475:ARG:NH2	2.50	0.45
1:R:268:ASN:HA	1:R:271:HIS:CD2	2.52	0.45
1:V:470:ILE:O	1:V:475:ARG:NH2	2.50	0.45
1:X:610:ASP:OD1	1:X:611:VAL:N	2.49	0.45
1:Z:268:ASN:HA	1:Z:271:HIS:CD2	2.52	0.45
1:b:518:ASN:C	1:b:518:ASN:OD1	2.59	0.45
1:d:565:ILE:HG23	1:d:607:GLN:HB2	1.99	0.45
1:e:565:ILE:HG23	1:e:607:GLN:HB2	1.99	0.45
1:i:470:ILE:O	1:i:475:ARG:NH2	2.50	0.45
1:j:268:ASN:HA	1:j:271:HIS:CD2	2.52	0.45
1:o:518:ASN:C	1:o:518:ASN:OD1	2.59	0.45
1:q:268:ASN:HA	1:q:271:HIS:CD2	2.52	0.45
1:s:563:GLU:OE1	1:s:563:GLU:N	2.47	0.45
1:t:471:ARG:HD2	1:u:502:TRP:CH2	2.51	0.45
1:w:565:ILE:HG23	1:w:607:GLN:HB2	1.99	0.45
1:x:610:ASP:OD1	1:x:611:VAL:N	2.49	0.45
1:3:565:ILE:HG23	1:3:607:GLN:HB2	1.99	0.45
1:3:697:GLU:HB2	1:3:699:GLN:HE21	1.81	0.45
1:6:268:ASN:HA	1:6:271:HIS:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:608:ASP:O	1:8:729:ARG:NH2	2.44	0.45
1:B:268:ASN:HA	1:B:271:HIS:CD2	2.52	0.45
1:F:268:ASN:HA	1:F:271:HIS:CD2	2.52	0.45
1:G:608:ASP:O	1:G:729:ARG:NH2	2.44	0.45
1:I:565:ILE:HG23	1:I:607:GLN:HB2	1.99	0.45
1:K:565:ILE:O	1:K:565:ILE:HG22	2.16	0.45
1:N:268:ASN:HA	1:N:271:HIS:CD2	2.52	0.45
1:V:268:ASN:HA	1:V:271:HIS:CD2	2.52	0.45
1:Z:563:GLU:OE1	1:Z:563:GLU:N	2.47	0.45
1:a:348:TYR:OH	1:a:642:PRO:O	2.31	0.45
1:e:608:ASP:O	1:e:729:ARG:NH2	2.44	0.45
1:m:518:ASN:OD1	1:m:518:ASN:C	2.59	0.45
1:m:610:ASP:OD1	1:m:611:VAL:N	2.49	0.45
1:q:470:ILE:O	1:q:475:ARG:NH2	2.50	0.45
1:q:563:GLU:OE1	1:q:563:GLU:N	2.47	0.45
1:r:268:ASN:HA	1:r:271:HIS:CD2	2.52	0.45
1:t:608:ASP:O	1:t:729:ARG:NH2	2.44	0.45
1:u:325:GLN:HG3	1:u:330:THR:HG22	1.99	0.45
1:z:268:ASN:HA	1:z:271:HIS:CD2	2.52	0.45
1:6:470:ILE:O	1:6:475:ARG:NH2	2.50	0.45
1:C:434:MET:N	1:C:434:MET:SD	2.85	0.45
1:D:693:ARG:HD3	1:D:697:GLU:OE2	2.17	0.45
1:F:470:ILE:O	1:F:475:ARG:NH2	2.50	0.45
1:J:268:ASN:HA	1:J:271:HIS:CD2	2.52	0.45
1:J:325:GLN:HG3	1:J:330:THR:HG22	1.99	0.45
1:K:224:SER:H	1:L:407:ASN:HD21	1.65	0.45
1:K:518:ASN:C	1:K:518:ASN:OD1	2.59	0.45
1:L:268:ASN:HA	1:L:271:HIS:CD2	2.52	0.45
1:O:268:ASN:HA	1:O:271:HIS:CD2	2.52	0.45
1:R:565:ILE:O	1:R:565:ILE:HG22	2.16	0.45
1:T:325:GLN:HG3	1:T:330:THR:HG22	1.99	0.45
1:T:518:ASN:C	1:T:518:ASN:OD1	2.59	0.45
1:V:502:TRP:CH2	1:X:471:ARG:HD2	2.51	0.45
1:W:565:ILE:HG23	1:W:607:GLN:HB2	1.99	0.45
1:W:608:ASP:O	1:W:729:ARG:NH2	2.44	0.45
1:a:693:ARG:HD3	1:a:697:GLU:OE2	2.17	0.45
1:e:268:ASN:HA	1:e:271:HIS:CD2	2.52	0.45
1:e:565:ILE:O	1:e:565:ILE:HG22	2.15	0.45
1:j:697:GLU:HB2	1:j:699:GLN:HE21	1.81	0.45
1:n:693:ARG:HD3	1:n:697:GLU:OE2	2.17	0.45
1:p:565:ILE:O	1:p:565:ILE:HG22	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:610:ASP:OD1	1:s:611:VAL:N	2.49	0.45
1:w:351:PRO:HB3	1:y:428:GLN:NE2	2.32	0.45
1:1:268:ASN:HA	1:1:271:HIS:CD2	2.52	0.45
1:3:224:SER:H	1:8:407:ASN:HD21	1.65	0.45
1:3:268:ASN:HA	1:3:271:HIS:CD2	2.52	0.45
1:4:693:ARG:HD3	1:4:697:GLU:OE2	2.17	0.45
1:5:610:ASP:OD1	1:5:611:VAL:N	2.49	0.45
1:7:268:ASN:HA	1:7:271:HIS:CD2	2.52	0.45
1:A:268:ASN:HA	1:A:271:HIS:CD2	2.52	0.44
1:B:565:ILE:HG23	1:B:607:GLN:HB2	1.99	0.44
1:E:268:ASN:HA	1:E:271:HIS:CD2	2.52	0.44
1:E:563:GLU:OE1	1:E:563:GLU:N	2.47	0.44
1:G:268:ASN:HA	1:G:271:HIS:CD2	2.52	0.44
1:G:471:ARG:HD2	1:I:502:TRP:CH2	2.51	0.44
1:I:563:GLU:OE1	1:I:563:GLU:N	2.47	0.44
1:M:693:ARG:HD3	1:M:697:GLU:OE2	2.17	0.44
1:O:608:ASP:O	1:O:729:ARG:NH2	2.44	0.44
1:Q:610:ASP:OD1	1:Q:611:VAL:N	2.49	0.44
1:R:693:ARG:HD3	1:R:697:GLU:OE2	2.17	0.44
1:S:525:SER:OG	1:S:561:ASP:OD1	2.33	0.44
1:W:470:ILE:O	1:W:475:ARG:NH2	2.50	0.44
1:X:268:ASN:HA	1:X:271:HIS:CD2	2.52	0.44
1:Y:325:GLN:HG3	1:Y:330:THR:HG22	2.00	0.44
1:Y:563:GLU:OE1	1:Y:563:GLU:N	2.47	0.44
1:Z:471:ARG:HD2	1:4:502:TRP:CH2	2.51	0.44
1:c:525:SER:OG	1:c:561:ASP:OD1	2.33	0.44
1:d:693:ARG:HD3	1:d:697:GLU:OE2	2.18	0.44
1:f:268:ASN:HA	1:f:271:HIS:CD2	2.52	0.44
1:f:325:GLN:HG3	1:f:330:THR:HG22	2.00	0.44
1:g:693:ARG:HD3	1:g:697:GLU:OE2	2.17	0.44
1:h:518:ASN:C	1:h:518:ASN:OD1	2.59	0.44
1:i:268:ASN:HA	1:i:271:HIS:CD2	2.52	0.44
1:j:565:ILE:HG23	1:j:607:GLN:HB2	1.99	0.44
1:k:268:ASN:HA	1:k:271:HIS:CD2	2.52	0.44
1:k:325:GLN:HG3	1:k:330:THR:HG22	2.00	0.44
1:p:470:ILE:O	1:p:475:ARG:NH2	2.50	0.44
1:p:693:ARG:HD3	1:p:697:GLU:OE2	2.17	0.44
1:t:565:ILE:HG23	1:t:607:GLN:HB2	1.99	0.44
1:v:268:ASN:HA	1:v:271:HIS:CD2	2.52	0.44
1:v:348:TYR:OH	1:v:642:PRO:O	2.31	0.44
1:w:325:GLN:HG3	1:w:330:THR:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:470:ILE:O	1:z:475:ARG:NH2	2.50	0.44
1:z:697:GLU:HB2	1:z:699:GLN:HE21	1.81	0.44
1:2:277:THR:OG1	1:2:375:TYR:O	2.30	0.44
1:2:693:ARG:HD3	1:2:697:GLU:OE2	2.17	0.44
1:4:277:THR:OG1	1:4:375:TYR:O	2.30	0.44
1:5:268:ASN:HA	1:5:271:HIS:CD2	2.52	0.44
1:7:525:SER:OG	1:7:561:ASP:OD1	2.33	0.44
1:8:325:GLN:HG3	1:8:330:THR:HG22	2.00	0.44
1:C:502:TRP:CH2	1:M:471:ARG:HD2	2.53	0.44
1:H:268:ASN:HA	1:H:271:HIS:CD2	2.52	0.44
1:I:325:GLN:HG3	1:I:330:THR:HG22	2.00	0.44
1:I:470:ILE:O	1:I:475:ARG:NH2	2.50	0.44
1:M:470:ILE:O	1:M:475:ARG:NH2	2.50	0.44
1:P:693:ARG:HD3	1:P:697:GLU:OE2	2.17	0.44
1:R:470:ILE:O	1:R:475:ARG:NH2	2.50	0.44
1:V:325:GLN:HG3	1:V:330:THR:HG22	2.00	0.44
1:Z:693:ARG:HD3	1:Z:697:GLU:OE2	2.17	0.44
1:a:268:ASN:HA	1:a:271:HIS:CD2	2.52	0.44
1:a:325:GLN:HG3	1:a:330:THR:HG22	1.99	0.44
1:b:325:GLN:HG3	1:b:330:THR:HG22	2.00	0.44
1:c:689:GLU:OE2	1:c:691:SER:OG	2.26	0.44
1:e:525:SER:OG	1:e:561:ASP:OD1	2.33	0.44
1:f:608:ASP:O	1:f:729:ARG:NH2	2.44	0.44
1:f:693:ARG:HD3	1:f:697:GLU:OE2	2.17	0.44
1:m:693:ARG:HD3	1:m:697:GLU:OE2	2.17	0.44
1:p:434:MET:CE	1:p:470:ILE:HG23	2.48	0.44
1:r:563:GLU:OE1	1:r:563:GLU:N	2.47	0.44
1:t:470:ILE:O	1:t:475:ARG:NH2	2.50	0.44
1:u:693:ARG:HD3	1:u:697:GLU:OE2	2.17	0.44
1:u:697:GLU:HB2	1:u:699:GLN:HE21	1.81	0.44
1:v:565:ILE:HG23	1:v:607:GLN:HB2	1.99	0.44
1:w:563:GLU:OE1	1:w:563:GLU:N	2.47	0.44
1:x:268:ASN:HA	1:x:271:HIS:CD2	2.52	0.44
1:y:268:ASN:HA	1:y:271:HIS:CD2	2.52	0.44
1:y:608:ASP:O	1:y:729:ARG:NH2	2.44	0.44
1:1:693:ARG:HD3	1:1:697:GLU:OE2	2.17	0.44
1:3:470:ILE:O	1:3:475:ARG:NH2	2.50	0.44
1:6:325:GLN:HG3	1:6:330:THR:HG22	2.00	0.44
1:7:565:ILE:O	1:7:565:ILE:HG22	2.16	0.44
1:8:565:ILE:HG23	1:8:607:GLN:HB2	1.99	0.44
1:A:470:ILE:O	1:A:475:ARG:NH2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:518:ASN:C	1:B:518:ASN:OD1	2.59	0.44
1:B:697:GLU:HB2	1:B:699:GLN:HE21	1.81	0.44
1:F:426:HIS:HA	1:F:733:ARG:O	2.18	0.44
1:H:448:THR:CG2	1:W:500:TYR:CZ	2.81	0.44
1:H:565:ILE:HG23	1:H:607:GLN:HB2	1.99	0.44
1:H:693:ARG:HD3	1:H:697:GLU:OE2	2.17	0.44
1:J:693:ARG:HD3	1:J:697:GLU:OE2	2.17	0.44
1:M:426:HIS:HA	1:M:733:ARG:O	2.18	0.44
1:M:434:MET:CE	1:M:470:ILE:HG23	2.48	0.44
1:P:434:MET:CE	1:P:470:ILE:HG23	2.48	0.44
1:P:470:ILE:O	1:P:475:ARG:NH2	2.50	0.44
1:Q:268:ASN:HA	1:Q:271:HIS:CD2	2.52	0.44
1:R:434:MET:CE	1:R:470:ILE:HG23	2.48	0.44
1:S:434:MET:CE	1:S:470:ILE:HG23	2.48	0.44
1:V:277:THR:OG1	1:V:375:TYR:O	2.30	0.44
1:W:426:HIS:HA	1:W:733:ARG:O	2.18	0.44
1:Y:268:ASN:HA	1:Y:271:HIS:CD2	2.52	0.44
1:Y:693:ARG:HD3	1:Y:697:GLU:OE2	2.17	0.44
1:Y:697:GLU:HB2	1:Y:699:GLN:HE21	1.81	0.44
1:c:434:MET:CE	1:c:470:ILE:HG23	2.48	0.44
1:d:426:HIS:HA	1:d:733:ARG:O	2.18	0.44
1:d:470:ILE:O	1:d:475:ARG:NH2	2.50	0.44
1:e:518:ASN:C	1:e:518:ASN:OD1	2.59	0.44
1:e:693:ARG:HD3	1:e:697:GLU:OE2	2.17	0.44
1:f:434:MET:CE	1:f:470:ILE:HG23	2.48	0.44
1:g:268:ASN:HA	1:g:271:HIS:CD2	2.52	0.44
1:g:325:GLN:HG3	1:g:330:THR:HG22	2.00	0.44
1:j:518:ASN:C	1:j:518:ASN:OD1	2.59	0.44
1:j:525:SER:OG	1:j:561:ASP:OD1	2.33	0.44
1:l:268:ASN:HA	1:l:271:HIS:CD2	2.52	0.44
1:m:434:MET:CE	1:m:470:ILE:HG23	2.48	0.44
1:o:565:ILE:HG23	1:o:607:GLN:HB2	1.99	0.44
1:p:426:HIS:HA	1:p:733:ARG:O	2.18	0.44
1:q:325:GLN:HG3	1:q:330:THR:HG22	2.00	0.44
1:q:426:HIS:HA	1:q:733:ARG:O	2.18	0.44
1:t:426:HIS:HA	1:t:733:ARG:O	2.18	0.44
1:w:268:ASN:HA	1:w:271:HIS:CD2	2.52	0.44
1:w:470:ILE:O	1:w:475:ARG:NH2	2.50	0.44
1:z:518:ASN:C	1:z:518:ASN:OD1	2.59	0.44
1:1:518:ASN:C	1:1:518:ASN:OD1	2.59	0.44
1:1:565:ILE:HG22	1:1:565:ILE:O	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:565:ILE:HG23	1:2:607:GLN:HB2	1.99	0.44
1:3:500:TYR:CZ	1:4:448:THR:CG2	2.81	0.44
1:6:693:ARG:HD3	1:6:697:GLU:OE2	2.17	0.44
1:7:608:ASP:O	1:7:729:ARG:NH2	2.44	0.44
1:8:268:ASN:HA	1:8:271:HIS:CD2	2.52	0.44
1:8:434:MET:CE	1:8:470:ILE:HG23	2.48	0.44
1:8:693:ARG:HD3	1:8:697:GLU:OE2	2.17	0.44
1:A:565:ILE:HG23	1:A:607:GLN:HB2	1.99	0.44
1:B:525:SER:OG	1:B:561:ASP:OD1	2.33	0.44
1:B:693:ARG:HD3	1:B:697:GLU:OE2	2.17	0.44
1:C:268:ASN:HA	1:C:271:HIS:CD2	2.52	0.44
1:C:565:ILE:HG23	1:C:607:GLN:HB2	1.99	0.44
1:D:434:MET:HE1	1:D:470:ILE:HG23	2.00	0.44
1:F:325:GLN:HG3	1:F:330:THR:HG22	2.00	0.44
1:F:434:MET:CE	1:F:470:ILE:HG23	2.48	0.44
1:G:434:MET:CE	1:G:470:ILE:HG23	2.48	0.44
1:H:348:TYR:OH	1:H:642:PRO:O	2.31	0.44
1:I:268:ASN:HA	1:I:271:HIS:CD2	2.52	0.44
1:I:434:MET:HE1	1:I:470:ILE:HG23	2.00	0.44
1:K:348:TYR:OH	1:K:642:PRO:O	2.31	0.44
1:K:434:MET:CE	1:K:470:ILE:HG23	2.48	0.44
1:O:426:HIS:HA	1:O:733:ARG:O	2.18	0.44
1:Q:325:GLN:HG3	1:Q:330:THR:HG22	2.00	0.44
1:V:426:HIS:HA	1:V:733:ARG:O	2.18	0.44
1:W:434:MET:CE	1:W:470:ILE:HG23	2.48	0.44
1:Z:565:ILE:O	1:Z:565:ILE:HG22	2.16	0.44
1:d:434:MET:CE	1:d:470:ILE:HG23	2.48	0.44
1:f:565:ILE:HG23	1:f:607:GLN:HB2	1.99	0.44
1:i:426:HIS:HA	1:i:733:ARG:O	2.18	0.44
1:i:434:MET:CE	1:i:470:ILE:HG23	2.48	0.44
1:k:693:ARG:HD3	1:k:697:GLU:OE2	2.17	0.44
1:l:434:MET:N	1:l:434:MET:SD	2.85	0.44
1:l:565:ILE:HG23	1:l:607:GLN:HB2	1.99	0.44
1:m:470:ILE:O	1:m:475:ARG:NH2	2.50	0.44
1:n:434:MET:HE1	1:n:470:ILE:HG23	2.00	0.44
1:p:434:MET:HE1	1:p:470:ILE:HG23	2.00	0.44
1:t:434:MET:CE	1:t:470:ILE:HG23	2.48	0.44
1:x:470:ILE:O	1:x:475:ARG:NH2	2.50	0.44
1:1:434:MET:CE	1:1:470:ILE:HG23	2.48	0.44
1:2:434:MET:CE	1:2:470:ILE:HG23	2.48	0.44
1:3:518:ASN:C	1:3:518:ASN:OD1	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:434:MET:CE	1:4:470:ILE:HG23	2.48	0.44
1:7:518:ASN:C	1:7:518:ASN:OD1	2.59	0.44
1:7:693:ARG:HD3	1:7:697:GLU:OE2	2.17	0.44
1:C:325:GLN:HG3	1:C:330:THR:HG22	2.00	0.44
1:F:224:SER:H	1:G:407:ASN:HD21	1.66	0.44
1:F:693:ARG:HD3	1:F:697:GLU:OE2	2.17	0.44
1:H:426:HIS:HA	1:H:733:ARG:O	2.18	0.44
1:K:693:ARG:HD3	1:K:697:GLU:OE2	2.18	0.44
1:L:426:HIS:HA	1:L:733:ARG:O	2.18	0.44
1:L:434:MET:CE	1:L:470:ILE:HG23	2.48	0.44
1:N:426:HIS:HA	1:N:733:ARG:O	2.18	0.44
1:Q:426:HIS:HA	1:Q:733:ARG:O	2.18	0.44
1:R:426:HIS:HA	1:R:733:ARG:O	2.18	0.44
1:R:434:MET:HE1	1:R:470:ILE:HG23	2.00	0.44
1:V:693:ARG:HD3	1:V:697:GLU:OE2	2.17	0.44
1:Z:434:MET:HE1	1:Z:470:ILE:HG23	2.00	0.44
1:Z:518:ASN:OD1	1:Z:518:ASN:C	2.59	0.44
1:h:348:TYR:OH	1:h:642:PRO:O	2.31	0.44
1:h:434:MET:CE	1:h:470:ILE:HG23	2.48	0.44
1:h:693:ARG:HD3	1:h:697:GLU:OE2	2.17	0.44
1:j:434:MET:CE	1:j:470:ILE:HG23	2.48	0.44
1:j:693:ARG:HD3	1:j:697:GLU:OE2	2.18	0.44
1:k:434:MET:HE1	1:k:470:ILE:HG23	2.00	0.44
1:q:434:MET:CE	1:q:470:ILE:HG23	2.48	0.44
1:q:693:ARG:HD3	1:q:697:GLU:OE2	2.17	0.44
1:s:268:ASN:HA	1:s:271:HIS:CD2	2.52	0.44
1:s:325:GLN:HG3	1:s:330:THR:HG22	2.00	0.44
1:t:693:ARG:HD3	1:t:697:GLU:OE2	2.17	0.44
1:u:268:ASN:HA	1:u:271:HIS:CD2	2.52	0.44
1:v:693:ARG:HD3	1:v:697:GLU:OE2	2.17	0.44
1:w:434:MET:HE1	1:w:470:ILE:HG23	2.00	0.44
1:w:502:TRP:CH2	1:y:471:ARG:HD2	2.51	0.44
1:x:565:ILE:HG23	1:x:607:GLN:HB2	1.99	0.44
1:y:434:MET:CE	1:y:470:ILE:HG23	2.48	0.44
1:z:351:PRO:HB3	1:2:428:GLN:NE2	2.33	0.44
1:1:434:MET:HE1	1:1:470:ILE:HG23	2.00	0.44
1:4:268:ASN:HA	1:4:271:HIS:CD2	2.52	0.44
1:4:565:ILE:HG23	1:4:607:GLN:HB2	1.99	0.44
1:6:426:HIS:HA	1:6:733:ARG:O	2.18	0.44
1:B:434:MET:CE	1:B:470:ILE:HG23	2.48	0.44
1:F:403:LEU:HD11	1:F:409:PHE:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:426:HIS:HA	1:G:733:ARG:O	2.18	0.44
1:I:426:HIS:HA	1:I:733:ARG:O	2.18	0.44
1:J:434:MET:HE1	1:J:470:ILE:HG23	2.00	0.44
1:N:403:LEU:HD11	1:N:409:PHE:HB2	2.00	0.44
1:Q:277:THR:OG1	1:Q:375:TYR:O	2.30	0.44
1:U:403:LEU:HD11	1:U:409:PHE:HB2	2.00	0.44
1:U:565:ILE:HG23	1:U:607:GLN:HB2	1.99	0.44
1:Z:434:MET:CE	1:Z:470:ILE:HG23	2.48	0.44
1:a:434:MET:HE1	1:a:470:ILE:HG23	2.00	0.44
1:c:434:MET:HE1	1:c:470:ILE:HG23	2.00	0.44
1:f:434:MET:HE1	1:f:470:ILE:HG23	2.00	0.44
1:l:325:GLN:HG3	1:l:330:THR:HG22	2.00	0.44
1:q:403:LEU:HD11	1:q:409:PHE:HB2	2.00	0.44
1:s:426:HIS:HA	1:s:733:ARG:O	2.18	0.44
1:u:563:GLU:OE1	1:u:563:GLU:N	2.47	0.44
1:v:426:HIS:HA	1:v:733:ARG:O	2.18	0.44
1:v:434:MET:HE1	1:v:470:ILE:HG23	2.00	0.44
1:z:403:LEU:HD11	1:z:409:PHE:HB2	2.00	0.44
1:z:500:TYR:CZ	1:2:448:THR:CG2	2.82	0.44
1:2:268:ASN:HA	1:2:271:HIS:CD2	2.52	0.44
1:4:563:GLU:OE1	1:4:563:GLU:N	2.47	0.44
1:6:434:MET:CE	1:6:470:ILE:HG23	2.48	0.44
1:A:434:MET:CE	1:A:470:ILE:HG23	2.48	0.44
1:A:525:SER:OG	1:A:561:ASP:OD1	2.33	0.44
1:B:403:LEU:HD11	1:B:409:PHE:HB2	2.00	0.44
1:C:471:ARG:HD2	1:b:502:TRP:CH2	2.53	0.44
1:E:565:ILE:HG23	1:E:607:GLN:HB2	1.99	0.44
1:H:325:GLN:HG3	1:H:330:THR:HG22	2.00	0.44
1:N:434:MET:CE	1:N:470:ILE:HG23	2.48	0.44
1:O:403:LEU:HD11	1:O:409:PHE:HB2	2.00	0.44
1:P:403:LEU:HD11	1:P:409:PHE:HB2	2.00	0.44
1:Q:434:MET:HE1	1:Q:470:ILE:HG23	2.00	0.44
1:S:224:SER:H	1:d:407:ASN:HD21	1.66	0.44
1:S:403:LEU:HD11	1:S:409:PHE:HB2	2.00	0.44
1:S:434:MET:HE1	1:S:470:ILE:HG23	2.00	0.44
1:U:325:GLN:HG3	1:U:330:THR:HG22	1.99	0.44
1:V:434:MET:CE	1:V:470:ILE:HG23	2.48	0.44
1:W:693:ARG:HD3	1:W:697:GLU:OE2	2.17	0.44
1:Y:608:ASP:O	1:Y:729:ARG:NH2	2.44	0.44
1:Z:325:GLN:HG3	1:Z:330:THR:HG22	2.00	0.44
1:Z:470:ILE:O	1:Z:475:ARG:NH2	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:403:LEU:HD11	1:c:409:PHE:HB2	2.00	0.44
1:e:325:GLN:HG3	1:e:330:THR:HG22	1.99	0.44
1:g:434:MET:HE1	1:g:470:ILE:HG23	2.00	0.44
1:g:470:ILE:O	1:g:475:ARG:NH2	2.50	0.44
1:o:325:GLN:HG3	1:o:330:THR:HG22	2.00	0.44
1:o:403:LEU:HD11	1:o:409:PHE:HB2	2.00	0.44
1:r:693:ARG:HD3	1:r:697:GLU:OE2	2.17	0.44
1:s:434:MET:HE1	1:s:470:ILE:HG23	2.00	0.44
1:u:428:GLN:NE2	1:v:351:PRO:HB3	2.33	0.44
1:v:434:MET:CE	1:v:470:ILE:HG23	2.48	0.44
1:w:426:HIS:HA	1:w:733:ARG:O	2.18	0.44
1:x:434:MET:CE	1:x:470:ILE:HG23	2.48	0.44
1:1:325:GLN:HG3	1:1:330:THR:HG22	2.00	0.44
1:1:470:ILE:O	1:1:475:ARG:NH2	2.50	0.44
1:3:403:LEU:HD11	1:3:409:PHE:HB2	2.00	0.44
1:7:325:GLN:HG3	1:7:330:THR:HG22	1.99	0.44
1:8:434:MET:HE1	1:8:470:ILE:HG23	2.00	0.44
1:G:428:GLN:NE2	1:I:351:PRO:HB3	2.33	0.44
1:H:434:MET:HE1	1:H:470:ILE:HG23	2.00	0.44
1:I:403:LEU:HD11	1:I:409:PHE:HB2	2.00	0.44
1:I:693:ARG:HD3	1:I:697:GLU:OE2	2.17	0.44
1:K:565:ILE:HG23	1:K:607:GLN:HB2	1.99	0.44
1:O:325:GLN:HG3	1:O:330:THR:HG22	1.99	0.44
1:O:434:MET:CE	1:O:470:ILE:HG23	2.48	0.44
1:P:268:ASN:HA	1:P:271:HIS:CD2	2.52	0.44
1:R:325:GLN:HG3	1:R:330:THR:HG22	1.99	0.44
1:U:434:MET:HE1	1:U:470:ILE:HG23	2.00	0.44
1:V:300:ILE:HD13	1:V:300:ILE:HG21	1.80	0.44
1:X:348:TYR:OH	1:X:642:PRO:O	2.31	0.44
1:Z:403:LEU:HD11	1:Z:409:PHE:HB2	2.00	0.44
1:a:470:ILE:O	1:a:475:ARG:NH2	2.50	0.44
1:b:300:ILE:HG21	1:b:300:ILE:HD13	1.80	0.44
1:c:426:HIS:HA	1:c:733:ARG:O	2.18	0.44
1:e:434:MET:HE1	1:e:470:ILE:HG23	2.00	0.44
1:g:403:LEU:HD11	1:g:409:PHE:HB2	2.00	0.44
1:i:351:PRO:HB3	1:k:428:GLN:NE2	2.33	0.44
1:j:325:GLN:HG3	1:j:330:THR:HG22	1.99	0.44
1:j:403:LEU:HD11	1:j:409:PHE:HB2	2.00	0.44
1:j:407:ASN:HD21	1:l:224:SER:H	1.66	0.44
1:k:348:TYR:OH	1:k:642:PRO:O	2.31	0.44
1:m:268:ASN:HA	1:m:271:HIS:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:268:ASN:HA	1:o:271:HIS:CD2	2.52	0.44
1:v:407:ASN:HD21	1:1:224:SER:H	1.65	0.44
1:w:693:ARG:HD3	1:w:697:GLU:OE2	2.17	0.44
1:y:426:HIS:HA	1:y:733:ARG:O	2.18	0.44
1:y:434:MET:HE1	1:y:470:ILE:HG23	2.00	0.44
1:1:403:LEU:HD11	1:1:409:PHE:HB2	2.00	0.44
1:5:470:ILE:O	1:5:475:ARG:NH2	2.50	0.44
1:C:428:GLN:NE2	1:b:351:PRO:HB3	2.32	0.44
1:G:434:MET:HE1	1:G:470:ILE:HG23	2.00	0.44
1:H:434:MET:CE	1:H:470:ILE:HG23	2.48	0.44
1:J:434:MET:CE	1:J:470:ILE:HG23	2.48	0.44
1:K:434:MET:HE1	1:K:470:ILE:HG23	2.00	0.44
1:K:563:GLU:OE1	1:K:563:GLU:N	2.47	0.44
1:K:633:LEU:N	1:8:476:ASN:OD1	2.50	0.44
1:L:565:ILE:HG23	1:L:607:GLN:HB2	1.99	0.44
1:M:325:GLN:HG3	1:M:330:THR:HG22	2.00	0.44
1:N:325:GLN:HG3	1:N:330:THR:HG22	2.00	0.44
1:O:434:MET:HE1	1:O:470:ILE:HG23	2.00	0.44
1:S:476:ASN:OD1	1:U:633:LEU:N	2.51	0.44
1:U:470:ILE:O	1:U:475:ARG:NH2	2.50	0.44
1:X:434:MET:CE	1:X:470:ILE:HG23	2.48	0.44
1:a:403:LEU:HD11	1:a:409:PHE:HB2	2.00	0.44
1:f:476:ASN:OD1	1:h:633:LEU:N	2.50	0.44
1:g:434:MET:CE	1:g:470:ILE:HG23	2.48	0.44
1:h:224:SER:H	1:i:407:ASN:HD21	1.66	0.44
1:h:565:ILE:HG23	1:h:607:GLN:HB2	1.99	0.44
1:i:565:ILE:HG23	1:i:607:GLN:HB2	1.99	0.44
1:i:693:ARG:HD3	1:i:697:GLU:OE2	2.17	0.44
1:k:434:MET:CE	1:k:470:ILE:HG23	2.48	0.44
1:m:403:LEU:HD11	1:m:409:PHE:HB2	2.00	0.44
1:n:434:MET:CE	1:n:470:ILE:HG23	2.48	0.44
1:o:434:MET:HE1	1:o:470:ILE:HG23	2.00	0.44
1:r:565:ILE:HG23	1:r:607:GLN:HB2	1.99	0.44
1:s:470:ILE:O	1:s:475:ARG:NH2	2.50	0.44
1:t:268:ASN:HA	1:t:271:HIS:CD2	2.52	0.44
1:u:403:LEU:HD11	1:u:409:PHE:HB2	2.00	0.44
1:v:325:GLN:HG3	1:v:330:THR:HG22	2.00	0.44
1:x:325:GLN:HG3	1:x:330:THR:HG22	1.99	0.44
1:x:525:SER:OG	1:x:561:ASP:OD1	2.33	0.44
1:2:563:GLU:OE1	1:2:563:GLU:N	2.47	0.44
1:5:434:MET:CE	1:5:470:ILE:HG23	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:434:MET:HE1	1:7:470:ILE:HG23	2.00	0.44
1:8:426:HIS:HA	1:8:733:ARG:O	2.18	0.44
1:A:325:GLN:HG3	1:A:330:THR:HG22	2.00	0.43
1:B:325:GLN:HG3	1:B:330:THR:HG22	2.00	0.43
1:C:426:HIS:HA	1:C:733:ARG:O	2.18	0.43
1:D:565:ILE:HG23	1:D:607:GLN:HB2	1.99	0.43
1:E:693:ARG:HD3	1:E:697:GLU:OE2	2.18	0.43
1:K:500:TYR:CZ	1:8:448:THR:CG2	2.81	0.43
1:N:434:MET:HE1	1:N:470:ILE:HG23	2.00	0.43
1:R:351:PRO:HB3	1:U:428:GLN:NE2	2.33	0.43
1:S:565:ILE:HG23	1:S:607:GLN:HB2	1.99	0.43
1:T:426:HIS:HA	1:T:733:ARG:O	2.18	0.43
1:U:562:GLU:OE2	1:U:612:TYR:OH	2.27	0.43
1:W:268:ASN:HA	1:W:271:HIS:CD2	2.52	0.43
1:W:325:GLN:HG3	1:W:330:THR:HG22	2.00	0.43
1:X:470:ILE:O	1:X:475:ARG:NH2	2.50	0.43
1:Z:351:PRO:HB3	1:3:428:GLN:NE2	2.33	0.43
1:a:434:MET:CE	1:a:470:ILE:HG23	2.48	0.43
1:b:224:SER:H	1:o:407:ASN:HD21	1.66	0.43
1:c:268:ASN:HA	1:c:271:HIS:CD2	2.52	0.43
1:c:608:ASP:O	1:c:729:ARG:NH2	2.44	0.43
1:c:693:ARG:HD3	1:c:697:GLU:OE2	2.17	0.43
1:d:325:GLN:HG3	1:d:330:THR:HG22	2.00	0.43
1:g:426:HIS:HA	1:g:733:ARG:O	2.18	0.43
1:h:434:MET:HE1	1:h:470:ILE:HG23	2.00	0.43
1:h:563:GLU:OE1	1:h:563:GLU:N	2.47	0.43
1:l:426:HIS:HA	1:l:733:ARG:O	2.18	0.43
1:p:325:GLN:HG3	1:p:330:THR:HG22	2.00	0.43
1:t:325:GLN:HG3	1:t:330:THR:HG22	2.00	0.43
1:w:403:LEU:HD11	1:w:409:PHE:HB2	2.00	0.43
1:z:325:GLN:HG3	1:z:330:THR:HG22	2.00	0.43
1:z:348:TYR:OH	1:z:642:PRO:O	2.31	0.43
1:2:325:GLN:HG3	1:2:330:THR:HG22	2.00	0.43
1:3:325:GLN:HG3	1:3:330:THR:HG22	2.00	0.43
1:3:426:HIS:HA	1:3:733:ARG:O	2.18	0.43
1:5:434:MET:HE1	1:5:470:ILE:HG23	2.00	0.43
1:5:693:ARG:HD3	1:5:697:GLU:OE2	2.17	0.43
1:D:434:MET:CE	1:D:470:ILE:HG23	2.48	0.43
1:E:426:HIS:HA	1:E:733:ARG:O	2.18	0.43
1:G:224:SER:H	1:W:407:ASN:HD21	1.66	0.43
1:G:403:LEU:HD11	1:G:409:PHE:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:407:ASN:HD21	1:7:224:SER:H	1.66	0.43
1:L:693:ARG:HD3	1:L:697:GLU:OE2	2.17	0.43
1:P:277:THR:OG1	1:P:375:TYR:O	2.30	0.43
1:P:426:HIS:HA	1:P:733:ARG:O	2.18	0.43
1:Q:434:MET:CE	1:Q:470:ILE:HG23	2.48	0.43
1:Q:470:ILE:O	1:Q:475:ARG:NH2	2.50	0.43
1:S:268:ASN:HA	1:S:271:HIS:CD2	2.52	0.43
1:S:426:HIS:HA	1:S:733:ARG:O	2.18	0.43
1:U:268:ASN:HA	1:U:271:HIS:CD2	2.52	0.43
1:U:693:ARG:HD3	1:U:697:GLU:OE2	2.18	0.43
1:X:403:LEU:HD11	1:X:409:PHE:HB2	2.00	0.43
1:X:434:MET:HE1	1:X:470:ILE:HG23	2.00	0.43
1:X:693:ARG:HD3	1:X:697:GLU:OE2	2.17	0.43
1:Y:403:LEU:HD11	1:Y:409:PHE:HB2	2.00	0.43
1:Z:426:HIS:HA	1:Z:733:ARG:O	2.18	0.43
1:b:426:HIS:HA	1:b:733:ARG:O	2.18	0.43
1:b:525:SER:OG	1:b:561:ASP:OD1	2.33	0.43
1:c:407:ASN:HD21	1:s:224:SER:H	1.65	0.43
1:c:565:ILE:HG23	1:c:607:GLN:HB2	1.99	0.43
1:f:426:HIS:HA	1:f:733:ARG:O	2.18	0.43
1:g:224:SER:H	1:1:407:ASN:HD21	1.66	0.43
1:l:693:ARG:HD3	1:l:697:GLU:OE2	2.17	0.43
1:m:426:HIS:HA	1:m:733:ARG:O	2.18	0.43
1:o:470:ILE:O	1:o:475:ARG:NH2	2.50	0.43
1:r:407:ASN:HD21	1:x:224:SER:H	1.65	0.43
1:r:426:HIS:HA	1:r:733:ARG:O	2.18	0.43
1:s:693:ARG:HD3	1:s:697:GLU:OE2	2.17	0.43
1:t:407:ASN:HD21	1:y:224:SER:H	1.66	0.43
1:u:608:ASP:O	1:u:729:ARG:NH2	2.44	0.43
1:y:403:LEU:HD11	1:y:409:PHE:HB2	2.00	0.43
1:z:426:HIS:HA	1:z:733:ARG:O	2.18	0.43
1:z:428:GLN:NE2	1:1:351:PRO:HB3	2.34	0.43
1:1:426:HIS:HA	1:1:733:ARG:O	2.18	0.43
1:3:433:LEU:HD11	1:3:735:LEU:CD2	2.49	0.43
1:3:434:MET:CE	1:3:470:ILE:HG23	2.48	0.43
1:4:325:GLN:HG3	1:4:330:THR:HG22	2.00	0.43
1:5:403:LEU:HD11	1:5:409:PHE:HB2	2.00	0.43
1:B:434:MET:HE1	1:B:470:ILE:HG23	2.00	0.43
1:C:403:LEU:HD11	1:C:409:PHE:HB2	2.00	0.43
1:C:693:ARG:HD3	1:C:697:GLU:OE2	2.17	0.43
1:J:348:TYR:OH	1:J:642:PRO:O	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:433:LEU:HD11	1:L:735:LEU:CD2	2.49	0.43
1:O:407:ASN:HD21	1:d:224:SER:H	1.65	0.43
1:O:633:LEU:N	1:n:476:ASN:OD1	2.50	0.43
1:S:608:ASP:O	1:S:729:ARG:NH2	2.44	0.43
1:S:693:ARG:HD3	1:S:697:GLU:OE2	2.17	0.43
1:T:224:SER:H	1:U:407:ASN:HD21	1.67	0.43
1:U:426:HIS:HA	1:U:733:ARG:O	2.18	0.43
1:X:300:ILE:HD13	1:X:300:ILE:HG21	1.80	0.43
1:a:426:HIS:HA	1:a:733:ARG:O	2.18	0.43
1:a:525:SER:OG	1:a:561:ASP:OD1	2.33	0.43
1:c:476:ASN:OD1	1:o:633:LEU:N	2.51	0.43
1:f:448:THR:CG2	1:h:500:TYR:CZ	2.81	0.43
1:i:433:LEU:HD11	1:i:735:LEU:CD2	2.49	0.43
1:l:403:LEU:HD11	1:l:409:PHE:HB2	2.00	0.43
1:l:434:MET:HE1	1:l:470:ILE:HG23	2.00	0.43
1:m:325:GLN:HG3	1:m:330:THR:HG22	1.99	0.43
1:m:565:ILE:HG23	1:m:607:GLN:HB2	1.99	0.43
1:n:565:ILE:HG23	1:n:607:GLN:HB2	1.99	0.43
1:o:428:GLN:NE2	1:p:351:PRO:HB3	2.33	0.43
1:o:693:ARG:HD3	1:o:697:GLU:OE2	2.17	0.43
1:r:434:MET:CE	1:r:470:ILE:HG23	2.48	0.43
1:r:476:ASN:OD1	1:s:633:LEU:N	2.50	0.43
1:s:434:MET:CE	1:s:470:ILE:HG23	2.48	0.43
1:t:428:GLN:NE2	1:u:351:PRO:HB3	2.33	0.43
1:y:325:GLN:HG3	1:y:330:THR:HG22	1.99	0.43
1:z:433:LEU:HD11	1:z:735:LEU:CD2	2.49	0.43
1:5:348:TYR:OH	1:5:642:PRO:O	2.31	0.43
1:5:426:HIS:HA	1:5:733:ARG:O	2.18	0.43
1:A:433:LEU:HD11	1:A:735:LEU:CD2	2.49	0.43
1:C:434:MET:HE1	1:C:470:ILE:HG23	2.00	0.43
1:E:434:MET:CE	1:E:470:ILE:HG23	2.48	0.43
1:I:224:SER:H	1:J:407:ASN:HD21	1.66	0.43
1:L:224:SER:H	1:b:407:ASN:HD21	1.66	0.43
1:P:565:ILE:HG23	1:P:607:GLN:HB2	1.99	0.43
1:Q:693:ARG:HD3	1:Q:697:GLU:OE2	2.18	0.43
1:T:476:ASN:OD1	1:d:633:LEU:N	2.50	0.43
1:U:434:MET:CE	1:U:470:ILE:HG23	2.48	0.43
1:W:428:GLN:NE2	1:Y:351:PRO:HB3	2.34	0.43
1:X:225:SER:OG	1:X:317:ASN:N	2.44	0.43
1:X:351:PRO:HB3	1:e:428:GLN:NE2	2.33	0.43
1:X:426:HIS:HA	1:X:733:ARG:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:476:ASN:OD1	1:8:633:LEU:N	2.51	0.43
1:b:403:LEU:HD11	1:b:409:PHE:HB2	2.00	0.43
1:b:434:MET:CE	1:b:470:ILE:HG23	2.48	0.43
1:e:224:SER:H	1:h:407:ASN:HD21	1.66	0.43
1:g:433:LEU:HD11	1:g:735:LEU:CD2	2.49	0.43
1:j:433:LEU:HD11	1:j:735:LEU:CD2	2.49	0.43
1:j:434:MET:HE1	1:j:470:ILE:HG23	2.00	0.43
1:n:325:GLN:HG3	1:n:330:THR:HG22	2.00	0.43
1:o:426:HIS:HA	1:o:733:ARG:O	2.18	0.43
1:p:407:ASN:HD21	1:6:224:SER:H	1.65	0.43
1:v:277:THR:OG1	1:v:375:TYR:O	2.30	0.43
1:w:476:ASN:OD1	1:x:633:LEU:N	2.49	0.43
1:x:433:LEU:HD11	1:x:735:LEU:CD2	2.49	0.43
1:z:434:MET:CE	1:z:470:ILE:HG23	2.48	0.43
1:2:433:LEU:HD11	1:2:735:LEU:CD2	2.49	0.43
1:4:433:LEU:HD11	1:4:735:LEU:CD2	2.49	0.43
1:5:476:ASN:OD1	1:6:633:LEU:N	2.50	0.43
1:7:426:HIS:HA	1:7:733:ARG:O	2.18	0.43
1:A:426:HIS:HA	1:A:733:ARG:O	2.18	0.43
1:A:434:MET:SD	1:A:434:MET:N	2.85	0.43
1:A:697:GLU:HB2	1:A:699:GLN:HE21	1.81	0.43
1:B:433:LEU:HD11	1:B:735:LEU:CD2	2.49	0.43
1:D:325:GLN:HG3	1:D:330:THR:HG22	2.00	0.43
1:E:337:THR:HA	1:E:404:ARG:HH11	1.84	0.43
1:G:693:ARG:HD3	1:G:697:GLU:OE2	2.17	0.43
1:H:224:SER:H	1:I:407:ASN:HD21	1.66	0.43
1:K:325:GLN:HG3	1:K:330:THR:HG22	2.00	0.43
1:O:224:SER:H	1:P:407:ASN:HD21	1.66	0.43
1:P:325:GLN:HG3	1:P:330:THR:HG22	2.00	0.43
1:R:525:SER:OG	1:R:561:ASP:OD1	2.33	0.43
1:T:434:MET:CE	1:T:470:ILE:HG23	2.48	0.43
1:T:525:SER:OG	1:T:561:ASP:OD1	2.33	0.43
1:T:693:ARG:HD3	1:T:697:GLU:OE2	2.17	0.43
1:V:407:ASN:HD21	1:W:224:SER:H	1.66	0.43
1:V:428:GLN:NE2	1:e:351:PRO:HB3	2.34	0.43
1:V:525:SER:OG	1:V:561:ASP:OD1	2.33	0.43
1:W:403:LEU:HD11	1:W:409:PHE:HB2	2.00	0.43
1:X:325:GLN:HG3	1:X:330:THR:HG22	2.00	0.43
1:X:433:LEU:HD11	1:X:735:LEU:CD2	2.49	0.43
1:b:693:ARG:HD3	1:b:697:GLU:OE2	2.17	0.43
1:h:325:GLN:HG3	1:h:330:THR:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:426:HIS:HA	1:h:733:ARG:O	2.18	0.43
1:j:428:GLN:NE2	1:k:351:PRO:HB3	2.33	0.43
1:m:277:THR:OG1	1:m:375:TYR:O	2.30	0.43
1:o:434:MET:CE	1:o:470:ILE:HG23	2.48	0.43
1:q:224:SER:H	1:y:407:ASN:HD21	1.67	0.43
1:t:403:LEU:HD11	1:t:409:PHE:HB2	2.00	0.43
1:x:426:HIS:HA	1:x:733:ARG:O	2.18	0.43
1:z:434:MET:HE1	1:z:470:ILE:HG23	2.00	0.43
1:z:633:LEU:N	1:2:476:ASN:OD1	2.52	0.43
1:4:426:HIS:HA	1:4:733:ARG:O	2.18	0.43
1:5:225:SER:OG	1:5:317:ASN:N	2.44	0.43
1:5:351:PRO:HB3	1:7:428:GLN:NE2	2.33	0.43
1:5:433:LEU:HD11	1:5:735:LEU:CD2	2.49	0.43
1:A:693:ARG:HD3	1:A:697:GLU:OE2	2.17	0.43
1:B:426:HIS:HA	1:B:733:ARG:O	2.18	0.43
1:C:407:ASN:HD21	1:D:224:SER:H	1.67	0.43
1:C:525:SER:OG	1:C:561:ASP:OD1	2.33	0.43
1:G:325:GLN:HG3	1:G:330:THR:HG22	2.00	0.43
1:G:404:ARG:H	1:G:407:ASN:HD22	1.67	0.43
1:K:426:HIS:HA	1:K:733:ARG:O	2.18	0.43
1:R:403:LEU:HD11	1:R:409:PHE:HB2	2.00	0.43
1:S:428:GLN:NE2	1:U:351:PRO:HB3	2.34	0.43
1:T:403:LEU:HD11	1:T:409:PHE:HB2	2.00	0.43
1:V:476:ASN:OD1	1:e:633:LEU:N	2.50	0.43
1:a:430:LEU:HD23	1:a:430:LEU:HA	1.89	0.43
1:a:565:ILE:HG23	1:a:607:GLN:HB2	1.99	0.43
1:g:525:SER:OG	1:g:561:ASP:OD1	2.33	0.43
1:m:300:ILE:HG21	1:m:300:ILE:HD13	1.80	0.43
1:m:525:SER:OG	1:m:561:ASP:OD1	2.33	0.43
1:n:426:HIS:HA	1:n:733:ARG:O	2.18	0.43
1:n:470:ILE:O	1:n:475:ARG:NH2	2.50	0.43
1:o:337:THR:HA	1:o:404:ARG:HH11	1.84	0.43
1:p:403:LEU:HD11	1:p:409:PHE:HB2	2.00	0.43
1:t:300:ILE:HD13	1:t:300:ILE:HG21	1.80	0.43
1:u:426:HIS:HA	1:u:733:ARG:O	2.18	0.43
1:v:224:SER:H	1:w:407:ASN:HD21	1.66	0.43
1:w:404:ARG:H	1:w:407:ASN:HD22	1.67	0.43
1:y:404:ARG:H	1:y:407:ASN:HD22	1.67	0.43
1:3:693:ARG:HD3	1:3:697:GLU:OE2	2.17	0.43
1:B:428:GLN:NE2	1:J:351:PRO:HB3	2.33	0.43
1:C:348:TYR:OH	1:C:642:PRO:O	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:404:ARG:H	1:C:407:ASN:HD22	1.67	0.43
1:C:434:MET:CE	1:C:470:ILE:HG23	2.48	0.43
1:C:511:ASN:ND2	1:M:566:ARG:HD3	2.34	0.43
1:D:426:HIS:HA	1:D:733:ARG:O	2.18	0.43
1:E:404:ARG:H	1:E:407:ASN:HD22	1.67	0.43
1:F:483:TYR:OH	1:F:507:LYS:O	2.37	0.43
1:I:434:MET:CE	1:I:470:ILE:HG23	2.48	0.43
1:N:337:THR:HA	1:N:404:ARG:HH11	1.84	0.43
1:N:483:TYR:OH	1:N:507:LYS:O	2.37	0.43
1:O:483:TYR:OH	1:O:507:LYS:O	2.37	0.43
1:U:337:THR:HA	1:U:404:ARG:HH11	1.84	0.43
1:Y:426:HIS:HA	1:Y:733:ARG:O	2.18	0.43
1:Y:434:MET:HE1	1:Y:470:ILE:HG23	2.00	0.43
1:Z:428:GLN:NE2	1:4:351:PRO:HB3	2.33	0.43
1:e:426:HIS:HA	1:e:733:ARG:O	2.18	0.43
1:g:565:ILE:HG23	1:g:607:GLN:HB2	1.99	0.43
1:j:426:HIS:HA	1:j:733:ARG:O	2.18	0.43
1:l:407:ASN:HD21	1:n:224:SER:H	1.67	0.43
1:l:470:ILE:O	1:l:475:ARG:NH2	2.50	0.43
1:l:525:SER:OG	1:l:561:ASP:OD1	2.33	0.43
1:q:483:TYR:OH	1:q:507:LYS:O	2.37	0.43
1:r:337:THR:HA	1:r:404:ARG:HH11	1.84	0.43
1:w:483:TYR:OH	1:w:507:LYS:O	2.37	0.43
1:x:693:ARG:HD3	1:x:697:GLU:OE2	2.17	0.43
1:x:697:GLU:HB2	1:x:699:GLN:HE21	1.81	0.43
1:y:430:LEU:HD23	1:y:430:LEU:HA	1.89	0.43
1:y:693:ARG:HD3	1:y:697:GLU:OE2	2.17	0.43
1:3:434:MET:HE1	1:3:470:ILE:HG23	2.00	0.43
1:3:608:ASP:O	1:3:729:ARG:NH2	2.44	0.43
1:5:325:GLN:HG3	1:5:330:THR:HG22	2.00	0.43
1:5:404:ARG:H	1:5:407:ASN:HD22	1.67	0.43
1:6:476:ASN:OD1	1:7:633:LEU:N	2.50	0.43
1:8:403:LEU:HD11	1:8:409:PHE:HB2	2.00	0.43
1:C:470:ILE:O	1:C:475:ARG:NH2	2.50	0.43
1:C:484:ARG:HB3	1:M:579:VAL:CG1	2.49	0.43
1:D:470:ILE:O	1:D:475:ARG:NH2	2.50	0.43
1:E:403:LEU:HD11	1:E:409:PHE:HB2	2.00	0.43
1:I:404:ARG:H	1:I:407:ASN:HD22	1.67	0.43
1:L:325:GLN:HG3	1:L:330:THR:HG22	2.00	0.43
1:M:483:TYR:OH	1:M:507:LYS:O	2.37	0.43
1:N:404:ARG:H	1:N:407:ASN:HD22	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:337:THR:HA	1:O:404:ARG:HH11	1.84	0.43
1:O:525:SER:OG	1:O:561:ASP:OD1	2.33	0.43
1:P:337:THR:HA	1:P:404:ARG:HH11	1.84	0.43
1:Q:224:SER:H	1:S:407:ASN:HD21	1.66	0.43
1:R:433:LEU:HD11	1:R:735:LEU:CD2	2.49	0.43
1:S:325:GLN:HG3	1:S:330:THR:HG22	2.00	0.43
1:T:337:THR:HA	1:T:404:ARG:HH11	1.84	0.43
1:V:351:PRO:HB3	1:X:428:GLN:NE2	2.33	0.43
1:W:434:MET:N	1:W:434:MET:SD	2.85	0.43
1:X:224:SER:H	1:Y:407:ASN:HD21	1.66	0.43
1:X:404:ARG:H	1:X:407:ASN:HD22	1.67	0.43
1:b:337:THR:HA	1:b:404:ARG:HH11	1.84	0.43
1:b:433:LEU:HD11	1:b:735:LEU:CD2	2.49	0.43
1:d:277:THR:OG1	1:d:375:TYR:O	2.30	0.43
1:d:483:TYR:OH	1:d:507:LYS:O	2.37	0.43
1:e:434:MET:CE	1:e:470:ILE:HG23	2.48	0.43
1:f:403:LEU:HD11	1:f:409:PHE:HB2	2.00	0.43
1:f:407:ASN:HD21	1:z:224:SER:H	1.67	0.43
1:h:337:THR:HA	1:h:404:ARG:HH11	1.84	0.43
1:i:404:ARG:H	1:i:407:ASN:HD22	1.67	0.43
1:l:434:MET:CE	1:l:470:ILE:HG23	2.48	0.43
1:m:337:THR:HA	1:m:404:ARG:HH11	1.84	0.43
1:p:433:LEU:HD11	1:p:735:LEU:CD2	2.49	0.43
1:r:403:LEU:HD11	1:r:409:PHE:HB2	2.00	0.43
1:r:404:ARG:H	1:r:407:ASN:HD22	1.67	0.43
1:r:608:ASP:O	1:r:729:ARG:NH2	2.44	0.43
1:u:434:MET:CE	1:u:470:ILE:HG23	2.48	0.43
1:u:434:MET:HE1	1:u:470:ILE:HG23	2.00	0.43
1:w:337:THR:HA	1:w:404:ARG:HH11	1.84	0.43
1:w:434:MET:CE	1:w:470:ILE:HG23	2.48	0.43
1:z:404:ARG:H	1:z:407:ASN:HD22	1.67	0.43
1:2:426:HIS:HA	1:2:733:ARG:O	2.18	0.43
1:3:404:ARG:H	1:3:407:ASN:HD22	1.67	0.43
1:6:525:SER:OG	1:6:561:ASP:OD1	2.33	0.43
1:7:434:MET:CE	1:7:470:ILE:HG23	2.48	0.43
1:E:608:ASP:O	1:E:729:ARG:NH2	2.44	0.43
1:F:407:ASN:HD21	1:R:224:SER:H	1.66	0.43
1:H:483:TYR:OH	1:H:507:LYS:O	2.37	0.43
1:I:337:THR:HA	1:I:404:ARG:HH11	1.84	0.43
1:I:483:TYR:OH	1:I:507:LYS:O	2.37	0.43
1:K:428:GLN:NE2	1:a:351:PRO:HB3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:404:ARG:H	1:L:407:ASN:HD22	1.67	0.43
1:M:434:MET:HE1	1:M:470:ILE:HG23	2.00	0.43
1:O:404:ARG:H	1:O:407:ASN:HD22	1.67	0.43
1:P:525:SER:OG	1:P:561:ASP:OD1	2.33	0.43
1:Q:403:LEU:HD11	1:Q:409:PHE:HB2	2.00	0.43
1:Q:433:LEU:HD11	1:Q:735:LEU:CD2	2.49	0.43
1:T:433:LEU:HD11	1:T:735:LEU:CD2	2.49	0.43
1:V:633:LEU:N	1:X:476:ASN:OD1	2.50	0.43
1:Y:434:MET:CE	1:Y:470:ILE:HG23	2.48	0.43
1:Z:407:ASN:HD21	1:a:224:SER:H	1.67	0.43
1:c:325:GLN:HG3	1:c:330:THR:HG22	2.00	0.43
1:j:224:SER:H	1:x:407:ASN:HD21	1.66	0.43
1:l:404:ARG:H	1:l:407:ASN:HD22	1.67	0.43
1:p:525:SER:OG	1:p:561:ASP:OD1	2.33	0.43
1:q:428:GLN:NE2	1:r:351:PRO:HB3	2.33	0.43
1:v:483:TYR:OH	1:v:507:LYS:O	2.37	0.43
1:w:430:LEU:HD23	1:w:430:LEU:HA	1.89	0.43
1:z:693:ARG:HD3	1:z:697:GLU:OE2	2.17	0.43
1:3:351:PRO:HB3	1:4:428:GLN:NE2	2.34	0.43
1:7:404:ARG:H	1:7:407:ASN:HD22	1.67	0.43
1:A:224:SER:H	1:E:407:ASN:HD21	1.66	0.43
1:A:434:MET:HE1	1:A:470:ILE:CG2	2.49	0.43
1:A:434:MET:HE1	1:A:470:ILE:HG23	2.00	0.43
1:B:300:ILE:HG21	1:B:300:ILE:HD13	1.80	0.43
1:B:404:ARG:H	1:B:407:ASN:HD22	1.67	0.43
1:E:433:LEU:HD11	1:E:735:LEU:CD2	2.49	0.43
1:F:434:MET:HE1	1:F:470:ILE:HG23	2.00	0.43
1:J:476:ASN:OD1	1:L:633:LEU:N	2.51	0.43
1:K:337:THR:HA	1:K:404:ARG:HH11	1.84	0.43
1:K:403:LEU:HD11	1:K:409:PHE:HB2	2.00	0.43
1:K:433:LEU:HD11	1:K:735:LEU:CD2	2.49	0.43
1:L:434:MET:HE1	1:L:470:ILE:HG23	2.00	0.43
1:M:633:LEU:N	1:b:476:ASN:OD1	2.51	0.43
1:N:225:SER:OG	1:N:317:ASN:N	2.44	0.43
1:N:525:SER:OG	1:N:561:ASP:OD1	2.33	0.43
1:O:693:ARG:HD3	1:O:697:GLU:OE2	2.17	0.43
1:R:483:TYR:OH	1:R:507:LYS:O	2.37	0.43
1:U:277:THR:OG1	1:U:375:TYR:O	2.30	0.43
1:V:434:MET:HE1	1:V:470:ILE:HG23	2.00	0.43
1:W:689:GLU:OE2	1:W:691:SER:OG	2.26	0.43
1:X:337:THR:HA	1:X:404:ARG:HH11	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:434:MET:HE1	1:X:470:ILE:CG2	2.49	0.43
1:d:434:MET:HE1	1:d:470:ILE:HG23	2.00	0.43
1:e:404:ARG:H	1:e:407:ASN:HD22	1.67	0.43
1:f:351:PRO:HB3	1:g:428:GLN:NE2	2.33	0.43
1:f:633:LEU:N	1:g:476:ASN:OD1	2.51	0.43
1:h:403:LEU:HD11	1:h:409:PHE:HB2	2.00	0.43
1:h:433:LEU:HD11	1:h:735:LEU:CD2	2.49	0.43
1:i:325:GLN:HG3	1:i:330:THR:HG22	2.00	0.43
1:i:434:MET:HE1	1:i:470:ILE:HG23	2.00	0.43
1:j:277:THR:OG1	1:j:375:TYR:O	2.30	0.43
1:j:404:ARG:H	1:j:407:ASN:HD22	1.67	0.43
1:k:426:HIS:HA	1:k:733:ARG:O	2.18	0.43
1:p:224:SER:H	1:q:407:ASN:HD21	1.66	0.43
1:r:348:TYR:OH	1:r:642:PRO:O	2.31	0.43
1:r:433:LEU:HD11	1:r:735:LEU:CD2	2.49	0.43
1:s:433:LEU:HD11	1:s:735:LEU:CD2	2.49	0.43
1:u:407:ASN:HD21	1:5:224:SER:H	1.66	0.43
1:v:404:ARG:H	1:v:407:ASN:HD22	1.67	0.43
1:v:433:LEU:HD11	1:v:735:LEU:CD2	2.49	0.43
1:x:403:LEU:HD11	1:x:409:PHE:HB2	2.00	0.43
1:x:434:MET:SD	1:x:434:MET:N	2.85	0.43
1:5:300:ILE:HG21	1:5:300:ILE:HD13	1.80	0.43
1:5:337:THR:HA	1:5:404:ARG:HH11	1.84	0.43
1:6:434:MET:HE1	1:6:470:ILE:HG23	2.00	0.43
1:8:277:THR:OG1	1:8:375:TYR:O	2.30	0.43
1:A:403:LEU:HD11	1:A:409:PHE:HB2	2.00	0.42
1:A:407:ASN:HD21	1:B:224:SER:H	1.66	0.42
1:D:476:ASN:OD1	1:N:633:LEU:N	2.51	0.42
1:E:428:GLN:NE2	1:Q:351:PRO:HB3	2.34	0.42
1:F:351:PRO:HB3	1:Q:428:GLN:NE2	2.34	0.42
1:G:430:LEU:HD23	1:G:430:LEU:HA	1.89	0.42
1:J:428:GLN:NE2	1:L:351:PRO:HB3	2.34	0.42
1:K:225:SER:OG	1:K:317:ASN:N	2.44	0.42
1:M:407:ASN:HD21	1:c:224:SER:H	1.67	0.42
1:M:434:MET:HE1	1:M:470:ILE:CG2	2.49	0.42
1:N:476:ASN:OD1	1:P:633:LEU:N	2.50	0.42
1:N:693:ARG:HD3	1:N:697:GLU:OE2	2.17	0.42
1:P:224:SER:H	1:Q:407:ASN:HD21	1.66	0.42
1:R:428:GLN:NE2	1:S:351:PRO:HB3	2.34	0.42
1:V:403:LEU:HD11	1:V:409:PHE:HB2	2.00	0.42
1:Z:337:THR:HA	1:Z:404:ARG:HH11	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:428:GLN:NE2	1:o:351:PRO:HB3	2.34	0.42
1:c:633:LEU:N	1:p:476:ASN:OD1	2.50	0.42
1:f:277:THR:OG1	1:f:375:TYR:O	2.30	0.42
1:f:483:TYR:OH	1:f:507:LYS:O	2.37	0.42
1:i:300:ILE:HG21	1:i:300:ILE:HD13	1.80	0.42
1:n:403:LEU:HD11	1:n:409:PHE:HB2	2.00	0.42
1:q:434:MET:HE1	1:q:470:ILE:HG23	2.00	0.42
1:s:403:LEU:HD11	1:s:409:PHE:HB2	2.00	0.42
1:x:434:MET:HE1	1:x:470:ILE:CG2	2.49	0.42
1:5:407:ASN:HD21	1:8:224:SER:H	1.67	0.42
1:5:434:MET:HE1	1:5:470:ILE:CG2	2.49	0.42
1:8:284:PHE:CE1	1:8:618:TRP:HH2	2.37	0.42
1:D:225:SER:OG	1:D:317:ASN:N	2.44	0.42
1:D:337:THR:HA	1:D:404:ARG:HH11	1.84	0.42
1:D:403:LEU:HD11	1:D:409:PHE:HB2	2.00	0.42
1:D:428:GLN:NE2	1:N:351:PRO:HB3	2.34	0.42
1:H:403:LEU:HD11	1:H:409:PHE:HB2	2.00	0.42
1:H:404:ARG:H	1:H:407:ASN:HD22	1.67	0.42
1:H:433:LEU:HD11	1:H:735:LEU:CD2	2.49	0.42
1:I:430:LEU:HD23	1:I:430:LEU:HA	1.89	0.42
1:J:426:HIS:HA	1:J:733:ARG:O	2.18	0.42
1:M:500:TYR:OH	1:b:448:THR:HG21	2.18	0.42
1:O:351:PRO:HB3	1:n:428:GLN:NE2	2.34	0.42
1:O:476:ASN:OD1	1:m:633:LEU:N	2.50	0.42
1:P:300:ILE:HG21	1:P:300:ILE:HD13	1.80	0.42
1:Q:434:MET:HE1	1:Q:470:ILE:CG2	2.49	0.42
1:T:407:ASN:HD21	1:i:224:SER:H	1.67	0.42
1:U:284:PHE:CE1	1:U:618:TRP:HH2	2.38	0.42
1:a:404:ARG:H	1:a:407:ASN:HD22	1.67	0.42
1:c:284:PHE:CE1	1:c:618:TRP:HH2	2.38	0.42
1:d:434:MET:HE1	1:d:470:ILE:CG2	2.49	0.42
1:e:430:LEU:HD23	1:e:430:LEU:HA	1.89	0.42
1:e:434:MET:HE1	1:e:470:ILE:CG2	2.49	0.42
1:g:404:ARG:H	1:g:407:ASN:HD22	1.67	0.42
1:i:403:LEU:HD11	1:i:409:PHE:HB2	2.00	0.42
1:i:428:GLN:NE2	1:j:351:PRO:HB3	2.34	0.42
1:i:633:LEU:N	1:k:476:ASN:OD1	2.51	0.42
1:j:689:GLU:OE2	1:j:691:SER:OG	2.26	0.42
1:k:314[A]:LYS:HD3	1:k:410:THR:CG2	2.46	0.42
1:m:428:GLN:NE2	1:n:351:PRO:HB3	2.33	0.42
1:o:284:PHE:CE1	1:o:618:TRP:HH2	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:525:SER:OG	1:o:561:ASP:OD1	2.33	0.42
1:q:337:THR:HA	1:q:404:ARG:HH11	1.84	0.42
1:t:434:MET:HE1	1:t:470:ILE:HG23	2.00	0.42
1:v:403:LEU:HD11	1:v:409:PHE:HB2	2.00	0.42
1:x:434:MET:HE1	1:x:470:ILE:HG23	2.00	0.42
1:1:337:THR:HA	1:1:404:ARG:HH11	1.84	0.42
1:1:428:GLN:NE2	1:2:351:PRO:HB3	2.34	0.42
1:2:404:ARG:H	1:2:407:ASN:HD22	1.67	0.42
1:2:434:MET:HE1	1:2:470:ILE:HG23	2.00	0.42
1:3:525:SER:OG	1:3:561:ASP:OD1	2.33	0.42
1:4:404:ARG:H	1:4:407:ASN:HD22	1.67	0.42
1:4:434:MET:HE1	1:4:470:ILE:HG23	2.00	0.42
1:6:403:LEU:HD11	1:6:409:PHE:HB2	2.00	0.42
1:7:434:MET:HE1	1:7:470:ILE:CG2	2.49	0.42
1:8:483:TYR:OH	1:8:507:LYS:O	2.37	0.42
1:A:404:ARG:H	1:A:407:ASN:HD22	1.67	0.42
1:A:633:LEU:N	1:I:476:ASN:OD1	2.50	0.42
1:B:277:THR:OG1	1:B:375:TYR:O	2.30	0.42
1:C:434:MET:HE1	1:C:470:ILE:CG2	2.49	0.42
1:E:325:GLN:HG3	1:E:330:THR:HG22	1.99	0.42
1:E:348:TYR:OH	1:E:642:PRO:O	2.31	0.42
1:E:525:SER:OG	1:E:561:ASP:OD1	2.33	0.42
1:H:351:PRO:HB3	1:Y:428:GLN:NE2	2.35	0.42
1:H:428:GLN:NE2	1:W:351:PRO:HB3	2.34	0.42
1:J:403:LEU:HD11	1:J:409:PHE:HB2	2.00	0.42
1:L:345:ASP:C	1:L:347:GLU:H	2.28	0.42
1:L:403:LEU:HD11	1:L:409:PHE:HB2	2.00	0.42
1:N:224:SER:H	1:m:407:ASN:HD21	1.66	0.42
1:R:345:ASP:C	1:R:347:GLU:H	2.28	0.42
1:S:284:PHE:CE1	1:S:618:TRP:HH2	2.38	0.42
1:S:483:TYR:OH	1:S:507:LYS:O	2.37	0.42
1:T:434:MET:HE1	1:T:470:ILE:CG2	2.49	0.42
1:U:300:ILE:HD13	1:U:300:ILE:HG21	1.80	0.42
1:U:434:MET:HE1	1:U:470:ILE:CG2	2.49	0.42
1:V:337:THR:HA	1:V:404:ARG:HH11	1.84	0.42
1:X:345:ASP:C	1:X:347:GLU:H	2.28	0.42
1:a:337:THR:HA	1:a:404:ARG:HH11	1.84	0.42
1:a:345:ASP:C	1:a:347:GLU:H	2.28	0.42
1:b:345:ASP:C	1:b:347:GLU:H	2.28	0.42
1:b:434:MET:HE1	1:b:470:ILE:CG2	2.49	0.42
1:b:434:MET:HE1	1:b:470:ILE:HG23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:403:LEU:HD11	1:e:409:PHE:HB2	2.00	0.42
1:f:284:PHE:CE1	1:f:618:TRP:HH2	2.38	0.42
1:g:337:THR:HA	1:g:404:ARG:HH11	1.84	0.42
1:g:351:PRO:HB3	1:h:428:GLN:NE2	2.34	0.42
1:h:225:SER:OG	1:h:317:ASN:N	2.44	0.42
1:i:345:ASP:C	1:i:347:GLU:H	2.28	0.42
1:l:434:MET:HE1	1:l:470:ILE:CG2	2.49	0.42
1:n:337:THR:HA	1:n:404:ARG:HH11	1.84	0.42
1:n:345:ASP:C	1:n:347:GLU:H	2.28	0.42
1:n:407:ASN:HD21	1:r:224:SER:H	1.66	0.42
1:o:434:MET:HE1	1:o:470:ILE:CG2	2.49	0.42
1:p:345:ASP:C	1:p:347:GLU:H	2.28	0.42
1:s:434:MET:HE1	1:s:470:ILE:CG2	2.49	0.42
1:x:404:ARG:H	1:x:407:ASN:HD22	1.67	0.42
1:z:525:SER:OG	1:z:561:ASP:OD1	2.33	0.42
1:1:348:TYR:OH	1:1:642:PRO:O	2.31	0.42
1:7:403:LEU:HD11	1:7:409:PHE:HB2	2.00	0.42
1:B:337:THR:HA	1:B:404:ARG:HH11	1.84	0.42
1:D:345:ASP:C	1:D:347:GLU:H	2.28	0.42
1:E:351:PRO:HB3	1:F:428:GLN:NE2	2.34	0.42
1:E:434:MET:HE1	1:E:470:ILE:HG23	2.00	0.42
1:E:476:ASN:OD1	1:Q:633:LEU:N	2.51	0.42
1:F:337:THR:HA	1:F:404:ARG:HH11	1.84	0.42
1:H:407:ASN:HD21	1:Z:224:SER:H	1.67	0.42
1:I:345:ASP:C	1:I:347:GLU:H	2.28	0.42
1:J:314[A]:LYS:HD3	1:J:410:THR:CG2	2.46	0.42
1:J:337:THR:HA	1:J:404:ARG:HH11	1.84	0.42
1:K:365:PHE:HA	1:K:366:PRO:HD3	1.94	0.42
1:K:404:ARG:H	1:K:407:ASN:HD22	1.67	0.42
1:P:345:ASP:C	1:P:347:GLU:H	2.28	0.42
1:P:404:ARG:H	1:P:407:ASN:HD22	1.67	0.42
1:P:483:TYR:OH	1:P:507:LYS:O	2.37	0.42
1:Q:337:THR:HA	1:Q:404:ARG:HH11	1.84	0.42
1:R:284:PHE:CE1	1:R:618:TRP:HH2	2.38	0.42
1:R:526:HIS:HE1	1:R:561:ASP:OD2	2.03	0.42
1:R:633:LEU:N	1:U:476:ASN:OD1	2.50	0.42
1:T:345:ASP:C	1:T:347:GLU:H	2.28	0.42
1:U:525:SER:OG	1:U:561:ASP:OD1	2.33	0.42
1:W:434:MET:HE1	1:W:470:ILE:CG2	2.49	0.42
1:W:434:MET:HE1	1:W:470:ILE:HG23	2.00	0.42
1:Y:483:TYR:OH	1:Y:507:LYS:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:348:TYR:OH	1:Z:642:PRO:O	2.31	0.42
1:a:428:GLN:NE2	1:8:351:PRO:HB3	2.33	0.42
1:a:434:MET:HE1	1:a:470:ILE:CG2	2.49	0.42
1:c:483:TYR:OH	1:c:507:LYS:O	2.37	0.42
1:f:337:THR:HA	1:f:404:ARG:HH11	1.84	0.42
1:g:345:ASP:C	1:g:347:GLU:H	2.28	0.42
1:h:404:ARG:H	1:h:407:ASN:HD22	1.67	0.42
1:j:337:THR:HA	1:j:404:ARG:HH11	1.84	0.42
1:m:224:SER:H	1:s:407:ASN:HD21	1.66	0.42
1:m:483:TYR:OH	1:m:507:LYS:O	2.37	0.42
1:o:277:THR:OG1	1:o:375:TYR:O	2.30	0.42
1:p:284:PHE:CE1	1:p:618:TRP:HH2	2.38	0.42
1:q:351:PRO:HB3	1:s:428:GLN:NE2	2.34	0.42
1:r:325:GLN:HG3	1:r:330:THR:HG22	2.00	0.42
1:r:345:ASP:C	1:r:347:GLU:H	2.28	0.42
1:r:434:MET:HE1	1:r:470:ILE:HG23	2.00	0.42
1:u:300:ILE:HG21	1:u:300:ILE:HD13	1.80	0.42
1:u:483:TYR:OH	1:u:507:LYS:O	2.37	0.42
1:w:284:PHE:CE1	1:w:618:TRP:HH2	2.38	0.42
1:w:526:HIS:HE1	1:w:561:ASP:OD2	2.03	0.42
1:z:284:PHE:CE1	1:z:618:TRP:HH2	2.38	0.42
1:z:434:MET:HE1	1:z:470:ILE:CG2	2.49	0.42
1:3:434:MET:HE1	1:3:470:ILE:CG2	2.49	0.42
1:5:345:ASP:C	1:5:347:GLU:H	2.28	0.42
1:6:337:THR:HA	1:6:404:ARG:HH11	1.84	0.42
1:6:428:GLN:NE2	1:7:351:PRO:HB3	2.35	0.42
1:D:351:PRO:HB3	1:P:428:GLN:NE2	2.34	0.42
1:D:407:ASN:HD21	1:E:224:SER:H	1.66	0.42
1:D:526:HIS:HE1	1:D:561:ASP:OD2	2.03	0.42
1:E:345:ASP:C	1:E:347:GLU:H	2.28	0.42
1:F:345:ASP:O	1:F:346:SER:OG	2.35	0.42
1:F:434:MET:HE1	1:F:470:ILE:CG2	2.49	0.42
1:I:284:PHE:CE1	1:I:618:TRP:HH2	2.38	0.42
1:K:284:PHE:CE1	1:K:618:TRP:HH2	2.38	0.42
1:M:525:SER:OG	1:M:561:ASP:OD1	2.33	0.42
1:N:428:GLN:NE2	1:P:351:PRO:HB3	2.34	0.42
1:P:433:LEU:HD11	1:P:735:LEU:CD2	2.49	0.42
1:R:407:ASN:HD21	1:V:224:SER:H	1.67	0.42
1:S:404:ARG:H	1:S:407:ASN:HD22	1.67	0.42
1:T:351:PRO:HB3	1:l:428:GLN:NE2	2.33	0.42
1:T:434:MET:HE1	1:T:470:ILE:HG23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:433:LEU:HD11	1:V:735:LEU:CD2	2.49	0.42
1:W:337:THR:HA	1:W:404:ARG:HH11	1.84	0.42
1:Y:470:ILE:O	1:Y:475:ARG:NH2	2.50	0.42
1:Z:300:ILE:HG21	1:Z:300:ILE:HD13	1.80	0.42
1:d:525:SER:OG	1:d:561:ASP:OD1	2.33	0.42
1:g:434:MET:HE1	1:g:470:ILE:CG2	2.49	0.42
1:j:300:ILE:HG21	1:j:300:ILE:HD13	1.80	0.42
1:k:284:PHE:CE1	1:k:618:TRP:HH2	2.38	0.42
1:k:337:THR:HA	1:k:404:ARG:HH11	1.84	0.42
1:k:403:LEU:HD11	1:k:409:PHE:HB2	2.00	0.42
1:m:345:ASP:C	1:m:347:GLU:H	2.28	0.42
1:m:404:ARG:H	1:m:407:ASN:HD22	1.67	0.42
1:m:433:LEU:HD11	1:m:735:LEU:CD2	2.49	0.42
1:o:224:SER:H	1:7:407:ASN:HD21	1.66	0.42
1:t:434:MET:HE1	1:t:470:ILE:CG2	2.49	0.42
1:t:689:GLU:OE2	1:t:691:SER:OG	2.26	0.42
1:w:345:ASP:C	1:w:347:GLU:H	2.28	0.42
1:x:345:ASP:C	1:x:347:GLU:H	2.28	0.42
1:y:434:MET:HE1	1:y:470:ILE:CG2	2.49	0.42
1:2:345:ASP:C	1:2:347:GLU:H	2.28	0.42
1:2:403:LEU:HD11	1:2:409:PHE:HB2	2.00	0.42
1:3:284:PHE:CE1	1:3:618:TRP:HH2	2.38	0.42
1:3:314[A]:LYS:HD3	1:3:410:THR:CG2	2.46	0.42
1:4:403:LEU:HD11	1:4:409:PHE:HB2	2.00	0.42
1:6:433:LEU:HD11	1:6:735:LEU:CD2	2.49	0.42
1:7:483:TYR:OH	1:7:507:LYS:O	2.37	0.42
1:8:337:THR:HA	1:8:404:ARG:HH11	1.84	0.42
1:8:433:LEU:HD11	1:8:735:LEU:CD2	2.49	0.42
1:A:345:ASP:C	1:A:347:GLU:H	2.28	0.42
1:B:351:PRO:HB3	1:L:428:GLN:NE2	2.34	0.42
1:B:476:ASN:OD1	1:J:633:LEU:N	2.51	0.42
1:B:526:HIS:HE1	1:B:561:ASP:OD2	2.03	0.42
1:C:500:TYR:OH	1:M:448:THR:HG21	2.16	0.42
1:C:579:VAL:CG1	1:b:484:ARG:HB3	2.49	0.42
1:G:284:PHE:CE1	1:G:618:TRP:HH2	2.38	0.42
1:H:284:PHE:CE1	1:H:618:TRP:HH2	2.38	0.42
1:I:526:HIS:HE1	1:I:561:ASP:OD2	2.03	0.42
1:J:224:SER:H	1:a:407:ASN:HD21	1.66	0.42
1:J:284:PHE:CE1	1:J:618:TRP:HH2	2.38	0.42
1:L:300:ILE:HG21	1:L:300:ILE:HD13	1.80	0.42
1:L:337:THR:HA	1:L:404:ARG:HH11	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:345:ASP:C	1:N:347:GLU:H	2.28	0.42
1:O:348:TYR:OH	1:O:642:PRO:O	2.31	0.42
1:Q:345:ASP:C	1:Q:347:GLU:H	2.28	0.42
1:V:284:PHE:CE1	1:V:618:TRP:HH2	2.38	0.42
1:V:434:MET:HE1	1:V:470:ILE:CG2	2.49	0.42
1:Y:345:ASP:C	1:Y:347:GLU:H	2.28	0.42
1:Z:434:MET:HE1	1:Z:470:ILE:CG2	2.49	0.42
1:b:526:HIS:HE1	1:b:561:ASP:OD2	2.03	0.42
1:c:404:ARG:H	1:c:407:ASN:HD22	1.67	0.42
1:d:284:PHE:CE1	1:d:618:TRP:HH2	2.38	0.42
1:f:433:LEU:HD11	1:f:735:LEU:CD2	2.49	0.42
1:h:284:PHE:CE1	1:h:618:TRP:HH2	2.38	0.42
1:i:337:THR:HA	1:i:404:ARG:HH11	1.84	0.42
1:j:345:ASP:C	1:j:347:GLU:H	2.28	0.42
1:j:476:ASN:OD1	1:k:633:LEU:N	2.51	0.42
1:j:526:HIS:HE1	1:j:561:ASP:OD2	2.03	0.42
1:m:526:HIS:HE1	1:m:561:ASP:OD2	2.03	0.42
1:n:225:SER:OG	1:n:317:ASN:N	2.44	0.42
1:p:404:ARG:H	1:p:407:ASN:HD22	1.67	0.42
1:q:433:LEU:HD11	1:q:735:LEU:CD2	2.49	0.42
1:q:434:MET:HE1	1:q:470:ILE:CG2	2.49	0.42
1:r:429:SER:HA	1:r:567:THR:HB	2.02	0.42
1:t:337:THR:HA	1:t:404:ARG:HH11	1.84	0.42
1:u:470:ILE:O	1:u:475:ARG:NH2	2.50	0.42
1:v:284:PHE:CE1	1:v:618:TRP:HH2	2.38	0.42
1:y:284:PHE:CE1	1:y:618:TRP:HH2	2.38	0.42
1:z:483:TYR:OH	1:z:507:LYS:O	2.37	0.42
1:z:526:HIS:HE1	1:z:561:ASP:OD2	2.03	0.42
1:1:300:ILE:HG21	1:1:300:ILE:HD13	1.80	0.42
1:1:434:MET:HE1	1:1:470:ILE:CG2	2.49	0.42
1:2:337:THR:HA	1:2:404:ARG:HH11	1.84	0.42
1:2:526:HIS:HE1	1:2:561:ASP:OD2	2.03	0.42
1:4:337:THR:HA	1:4:404:ARG:HH11	1.84	0.42
1:4:345:ASP:C	1:4:347:GLU:H	2.28	0.42
1:5:284:PHE:CE1	1:5:618:TRP:HH2	2.37	0.42
1:A:300:ILE:HD13	1:A:300:ILE:HG21	1.80	0.42
1:B:345:ASP:C	1:B:347:GLU:H	2.28	0.42
1:E:429:SER:HA	1:E:567:THR:HB	2.02	0.42
1:F:433:LEU:HD11	1:F:735:LEU:CD2	2.49	0.42
1:G:434:MET:HE1	1:G:470:ILE:CG2	2.49	0.42
1:G:526:HIS:HE1	1:G:561:ASP:OD2	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:345:ASP:C	1:H:347:GLU:H	2.28	0.42
1:H:365:PHE:HA	1:H:366:PRO:HD3	1.94	0.42
1:J:300:ILE:HG21	1:J:300:ILE:HD13	1.80	0.42
1:J:525:SER:OG	1:J:561:ASP:OD1	2.33	0.42
1:M:284:PHE:CE1	1:M:618:TRP:HH2	2.38	0.42
1:M:403:LEU:HD11	1:M:409:PHE:HB2	2.00	0.42
1:P:526:HIS:HE1	1:P:561:ASP:OD2	2.03	0.42
1:R:225:SER:OG	1:R:317:ASN:N	2.44	0.42
1:R:404:ARG:H	1:R:407:ASN:HD22	1.67	0.42
1:T:526:HIS:HE1	1:T:561:ASP:OD2	2.03	0.42
1:Y:429:SER:HA	1:Y:567:THR:HB	2.02	0.42
1:c:351:PRO:HB3	1:p:428:GLN:NE2	2.35	0.42
1:c:526:HIS:HE1	1:c:561:ASP:OD2	2.03	0.42
1:d:428:GLN:NE2	1:l:351:PRO:HB3	2.34	0.42
1:f:428:GLN:NE2	1:h:351:PRO:HB3	2.33	0.42
1:g:300:ILE:HD13	1:g:300:ILE:HG21	1.80	0.42
1:h:365:PHE:HA	1:h:366:PRO:HD3	1.94	0.42
1:i:483:TYR:OH	1:i:507:LYS:O	2.37	0.42
1:k:407:ASN:HD21	1:w:224:SER:H	1.67	0.42
1:n:526:HIS:HE1	1:n:561:ASP:OD2	2.03	0.42
1:p:526:HIS:HE1	1:p:561:ASP:OD2	2.03	0.42
1:q:345:ASP:O	1:q:346:SER:OG	2.35	0.42
1:r:284:PHE:CE1	1:r:618:TRP:HH2	2.38	0.42
1:s:337:THR:HA	1:s:404:ARG:HH11	1.84	0.42
1:s:345:ASP:C	1:s:347:GLU:H	2.28	0.42
1:u:345:ASP:C	1:u:347:GLU:H	2.28	0.42
1:u:404:ARG:H	1:u:407:ASN:HD22	1.67	0.42
1:v:345:ASP:C	1:v:347:GLU:H	2.28	0.42
1:x:483:TYR:OH	1:x:507:LYS:O	2.37	0.42
1:y:483:TYR:OH	1:y:507:LYS:O	2.37	0.42
1:y:526:HIS:HE1	1:y:561:ASP:OD2	2.03	0.42
1:z:314[A]:LYS:HD3	1:z:410:THR:CG2	2.46	0.42
1:2:224:SER:H	1:3:407:ASN:HD21	1.66	0.42
1:2:483:TYR:OH	1:2:507:LYS:O	2.37	0.42
1:3:345:ASP:C	1:3:347:GLU:H	2.28	0.42
1:3:483:TYR:OH	1:3:507:LYS:O	2.37	0.42
1:3:526:HIS:HE1	1:3:561:ASP:OD2	2.03	0.42
1:4:483:TYR:OH	1:4:507:LYS:O	2.37	0.42
1:4:526:HIS:HE1	1:4:561:ASP:OD2	2.03	0.42
1:6:284:PHE:CE1	1:6:618:TRP:HH2	2.38	0.42
1:6:404:ARG:H	1:6:407:ASN:HD22	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:483:TYR:OH	1:A:507:LYS:O	2.37	0.42
1:B:284:PHE:CE1	1:B:618:TRP:HH2	2.38	0.42
1:D:284:PHE:CE1	1:D:618:TRP:HH2	2.38	0.42
1:E:434:MET:HE1	1:E:470:ILE:CG2	2.50	0.42
1:G:429:SER:HA	1:G:567:THR:HB	2.02	0.42
1:I:314[A]:LYS:HD3	1:I:410:THR:CG2	2.46	0.42
1:L:483:TYR:OH	1:L:507:LYS:O	2.37	0.42
1:L:526:HIS:HE1	1:L:561:ASP:OD2	2.03	0.42
1:N:348:TYR:OH	1:N:642:PRO:O	2.31	0.42
1:O:345:ASP:C	1:O:347:GLU:H	2.28	0.42
1:P:434:MET:HE1	1:P:470:ILE:CG2	2.49	0.42
1:P:434:MET:HE1	1:P:470:ILE:HG23	2.00	0.42
1:R:476:ASN:OD1	1:S:633:LEU:N	2.50	0.42
1:S:433:LEU:HD11	1:S:735:LEU:CD2	2.49	0.42
1:S:526:HIS:HE1	1:S:561:ASP:OD2	2.03	0.42
1:T:428:GLN:NE2	1:d:351:PRO:HB3	2.34	0.42
1:U:224:SER:H	1:e:407:ASN:HD21	1.66	0.42
1:X:284:PHE:CE1	1:X:618:TRP:HH2	2.38	0.42
1:X:407:ASN:HD21	1:f:224:SER:H	1.67	0.42
1:Y:404:ARG:H	1:Y:407:ASN:HD22	1.67	0.42
1:Y:433:LEU:HD11	1:Y:735:LEU:CD2	2.49	0.42
1:Z:345:ASP:C	1:Z:347:GLU:H	2.28	0.42
1:c:433:LEU:HD11	1:c:735:LEU:CD2	2.49	0.42
1:d:403:LEU:HD11	1:d:409:PHE:HB2	2.00	0.42
1:e:345:ASP:C	1:e:347:GLU:H	2.28	0.42
1:e:483:TYR:OH	1:e:507:LYS:O	2.37	0.42
1:h:526:HIS:HE1	1:h:561:ASP:OD2	2.03	0.42
1:i:526:HIS:HE1	1:i:561:ASP:OD2	2.03	0.42
1:l:429:SER:HA	1:l:567:THR:HB	2.02	0.42
1:l:526:HIS:HE1	1:l:561:ASP:OD2	2.03	0.42
1:n:284:PHE:CE1	1:n:618:TRP:HH2	2.38	0.42
1:o:300:ILE:HD13	1:o:300:ILE:HG21	1.80	0.42
1:u:429:SER:HA	1:u:567:THR:HB	2.02	0.42
1:w:314[A]:LYS:HD3	1:w:410:THR:CG2	2.46	0.42
1:x:300:ILE:HD13	1:x:300:ILE:HG21	1.80	0.42
1:z:407:ASN:HD21	1:4:224:SER:H	1.66	0.42
1:1:526:HIS:HE1	1:1:561:ASP:OD2	2.03	0.42
1:4:434:MET:HE1	1:4:470:ILE:CG2	2.49	0.42
1:6:434:MET:HE1	1:6:470:ILE:CG2	2.49	0.42
1:7:345:ASP:C	1:7:347:GLU:H	2.28	0.42
1:7:526:HIS:HE1	1:7:561:ASP:OD2	2.03	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:526:HIS:HE1	1:8:561:ASP:OD2	2.03	0.42
1:B:429:SER:HA	1:B:567:THR:HB	2.02	0.42
1:C:351:PRO:HB3	1:M:428:GLN:NE2	2.34	0.42
1:C:526:HIS:HE1	1:C:561:ASP:OD2	2.03	0.42
1:D:429:SER:HA	1:D:567:THR:HB	2.02	0.42
1:E:284:PHE:CE1	1:E:618:TRP:HH2	2.38	0.42
1:F:526:HIS:HE1	1:F:561:ASP:OD2	2.03	0.42
1:G:337:THR:HA	1:G:404:ARG:HH11	1.84	0.42
1:G:483:TYR:OH	1:G:507:LYS:O	2.37	0.42
1:K:447:ARG:NH2	1:K:449:ASN:O	2.53	0.42
1:K:526:HIS:HE1	1:K:561:ASP:OD2	2.03	0.42
1:N:434:MET:HE1	1:N:470:ILE:CG2	2.49	0.42
1:O:428:GLN:NE2	1:m:351:PRO:HB3	2.34	0.42
1:P:430:LEU:HD23	1:P:430:LEU:HA	1.89	0.42
1:S:337:THR:HA	1:S:404:ARG:HH11	1.84	0.42
1:V:483:TYR:OH	1:V:507:LYS:O	2.37	0.42
1:X:526:HIS:HE1	1:X:561:ASP:OD2	2.03	0.42
1:Y:224:SER:H	1:4:407:ASN:HD21	1.66	0.42
1:Z:525:SER:OG	1:Z:561:ASP:OD1	2.33	0.42
1:a:483:TYR:OH	1:a:507:LYS:O	2.37	0.42
1:c:337:THR:HA	1:c:404:ARG:HH11	1.84	0.42
1:e:526:HIS:HE1	1:e:561:ASP:OD2	2.03	0.42
1:f:526:HIS:HE1	1:f:561:ASP:OD2	2.03	0.42
1:g:284:PHE:CE1	1:g:618:TRP:HH2	2.38	0.42
1:g:314[A]:LYS:HD3	1:g:410:THR:CG2	2.46	0.42
1:g:483:TYR:OH	1:g:507:LYS:O	2.37	0.42
1:h:429:SER:HA	1:h:567:THR:HB	2.02	0.42
1:h:447:ARG:NH2	1:h:449:ASN:O	2.53	0.42
1:j:284:PHE:CE1	1:j:618:TRP:HH2	2.38	0.42
1:j:429:SER:HA	1:j:567:THR:HB	2.02	0.42
1:k:562:GLU:OE2	1:k:612:TYR:OH	2.27	0.42
1:m:434:MET:HE1	1:m:470:ILE:CG2	2.49	0.42
1:n:434:MET:HE1	1:n:470:ILE:CG2	2.49	0.42
1:q:525:SER:OG	1:q:561:ASP:OD1	2.33	0.42
1:q:526:HIS:HE1	1:q:561:ASP:OD2	2.03	0.42
1:r:428:GLN:NE2	1:s:351:PRO:HB3	2.35	0.42
1:r:434:MET:HE1	1:r:470:ILE:CG2	2.49	0.42
1:u:337:THR:HA	1:u:404:ARG:HH11	1.84	0.42
1:x:526:HIS:HE1	1:x:561:ASP:OD2	2.03	0.42
1:y:429:SER:HA	1:y:567:THR:HB	2.02	0.42
1:z:345:ASP:C	1:z:347:GLU:H	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:345:ASP:C	1:1:347:GLU:H	2.28	0.42
1:1:483:TYR:OH	1:1:507:LYS:O	2.37	0.42
1:5:526:HIS:HE1	1:5:561:ASP:OD2	2.03	0.42
1:6:345:ASP:C	1:6:347:GLU:H	2.28	0.42
1:7:348:TYR:OH	1:7:642:PRO:O	2.31	0.42
1:A:526:HIS:HE1	1:A:561:ASP:OD2	2.03	0.42
1:C:345:ASP:C	1:C:347:GLU:H	2.28	0.42
1:C:429:SER:HA	1:C:567:THR:HB	2.02	0.42
1:F:525:SER:OG	1:F:561:ASP:OD1	2.33	0.42
1:H:429:SER:HA	1:H:567:THR:HB	2.02	0.42
1:I:434:MET:HE1	1:I:470:ILE:CG2	2.49	0.42
1:J:447:ARG:NH2	1:J:449:ASN:O	2.53	0.42
1:K:483:TYR:OH	1:K:507:LYS:O	2.37	0.42
1:N:284:PHE:CE1	1:N:618:TRP:HH2	2.38	0.42
1:N:447:ARG:NH2	1:N:449:ASN:O	2.53	0.42
1:O:434:MET:HE1	1:O:470:ILE:CG2	2.49	0.42
1:O:447:ARG:NH2	1:O:449:ASN:O	2.53	0.42
1:S:345:ASP:C	1:S:347:GLU:H	2.28	0.42
1:S:447:ARG:NH2	1:S:449:ASN:O	2.53	0.42
1:T:447:ARG:NH2	1:T:449:ASN:O	2.53	0.42
1:V:345:ASP:C	1:V:347:GLU:H	2.28	0.42
1:V:404:ARG:H	1:V:407:ASN:HD22	1.67	0.42
1:W:300:ILE:HD13	1:W:300:ILE:HG21	1.80	0.42
1:X:483:TYR:OH	1:X:507:LYS:O	2.37	0.42
1:Y:337:THR:HA	1:Y:404:ARG:HH11	1.84	0.42
1:Z:526:HIS:HE1	1:Z:561:ASP:OD2	2.03	0.42
1:a:284:PHE:CE1	1:a:618:TRP:HH2	2.38	0.42
1:b:447:ARG:NH2	1:b:449:ASN:O	2.53	0.42
1:b:483:TYR:OH	1:b:507:LYS:O	2.37	0.42
1:c:345:ASP:C	1:c:347:GLU:H	2.28	0.42
1:c:447:ARG:NH2	1:c:449:ASN:O	2.53	0.42
1:e:348:TYR:OH	1:e:642:PRO:O	2.31	0.42
1:f:404:ARG:H	1:f:407:ASN:HD22	1.67	0.42
1:h:483:TYR:OH	1:h:507:LYS:O	2.37	0.42
1:i:225:SER:OG	1:i:317:ASN:N	2.44	0.42
1:j:434:MET:HE1	1:j:470:ILE:CG2	2.49	0.42
1:k:300:ILE:HG21	1:k:300:ILE:HD13	1.80	0.42
1:k:525:SER:OG	1:k:561:ASP:OD1	2.33	0.42
1:k:526:HIS:HE1	1:k:561:ASP:OD2	2.03	0.42
1:l:483:TYR:OH	1:l:507:LYS:O	2.37	0.42
1:m:434:MET:HE1	1:m:470:ILE:HG23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:429:SER:HA	1:n:567:THR:HB	2.02	0.42
1:p:225:SER:OG	1:p:317:ASN:N	2.44	0.42
1:2:434:MET:HE1	1:2:470:ILE:CG2	2.49	0.42
1:3:689:GLU:OE2	1:3:691:SER:OG	2.26	0.42
1:6:483:TYR:OH	1:6:507:LYS:O	2.37	0.42
1:8:404:ARG:H	1:8:407:ASN:HD22	1.67	0.42
1:B:365:PHE:HA	1:B:366:PRO:HD3	1.94	0.41
1:D:434:MET:HE1	1:D:470:ILE:CG2	2.49	0.41
1:G:345:ASP:C	1:G:347:GLU:H	2.28	0.41
1:J:345:ASP:C	1:J:347:GLU:H	2.28	0.41
1:J:434:MET:HE1	1:J:470:ILE:CG2	2.49	0.41
1:J:526:HIS:HE1	1:J:561:ASP:OD2	2.03	0.41
1:K:429:SER:HA	1:K:567:THR:HB	2.02	0.41
1:O:284:PHE:CE1	1:O:618:TRP:HH2	2.38	0.41
1:Q:348:TYR:OH	1:Q:642:PRO:O	2.31	0.41
1:Q:447:ARG:NH2	1:Q:449:ASN:O	2.53	0.41
1:V:447:ARG:NH2	1:V:449:ASN:O	2.53	0.41
1:W:526:HIS:HE1	1:W:561:ASP:OD2	2.03	0.41
1:Z:483:TYR:OH	1:Z:507:LYS:O	2.37	0.41
1:a:300:ILE:HD13	1:a:300:ILE:HG21	1.80	0.41
1:b:284:PHE:CE1	1:b:618:TRP:HH2	2.38	0.41
1:d:526:HIS:HE1	1:d:561:ASP:OD2	2.03	0.41
1:f:434:MET:HE1	1:f:470:ILE:CG2	2.49	0.41
1:k:434:MET:HE1	1:k:470:ILE:CG2	2.49	0.41
1:k:447:ARG:NH2	1:k:449:ASN:O	2.53	0.41
1:l:345:ASP:C	1:l:347:GLU:H	2.28	0.41
1:m:430:LEU:HD23	1:m:430:LEU:HA	1.89	0.41
1:o:225:SER:OG	1:o:317:ASN:N	2.44	0.41
1:o:448:THR:CG2	1:p:500:TYR:CZ	2.81	0.41
1:o:476:ASN:OD1	1:p:633:LEU:N	2.51	0.41
1:q:345:ASP:C	1:q:347:GLU:H	2.28	0.41
1:s:447:ARG:NH2	1:s:449:ASN:O	2.53	0.41
1:t:284:PHE:CE1	1:t:618:TRP:HH2	2.38	0.41
1:u:433:LEU:HD11	1:u:735:LEU:CD2	2.49	0.41
1:v:429:SER:HA	1:v:567:THR:HB	2.02	0.41
1:w:428:GLN:NE2	1:x:351:PRO:HB3	2.34	0.41
1:w:434:MET:HE1	1:w:470:ILE:CG2	2.49	0.41
1:x:562:GLU:OE2	1:x:612:TYR:OH	2.27	0.41
1:2:348:TYR:OH	1:2:642:PRO:O	2.31	0.41
1:2:447:ARG:NH2	1:2:449:ASN:O	2.53	0.41
1:4:447:ARG:NH2	1:4:449:ASN:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:428:GLN:NE2	1:6:351:PRO:HB3	2.34	0.41
1:7:433:LEU:HD11	1:7:735:LEU:CD2	2.49	0.41
1:A:284:PHE:CE1	1:A:618:TRP:HH2	2.38	0.41
1:A:337:THR:HA	1:A:404:ARG:HH11	1.84	0.41
1:A:351:PRO:HB3	1:I:428:GLN:NE2	2.34	0.41
1:B:434:MET:HE1	1:B:470:ILE:CG2	2.49	0.41
1:B:447:ARG:NH2	1:B:449:ASN:O	2.53	0.41
1:C:284:PHE:CE1	1:C:618:TRP:HH2	2.38	0.41
1:E:447:ARG:NH2	1:E:449:ASN:O	2.53	0.41
1:E:633:LEU:N	1:F:476:ASN:OD1	2.51	0.41
1:F:429:SER:HA	1:F:567:THR:HB	2.02	0.41
1:F:447:ARG:NH2	1:F:449:ASN:O	2.53	0.41
1:M:526:HIS:HE1	1:M:561:ASP:OD2	2.03	0.41
1:O:300:ILE:HD13	1:O:300:ILE:HG21	1.80	0.41
1:R:447:ARG:NH2	1:R:449:ASN:O	2.53	0.41
1:T:284:PHE:CE1	1:T:618:TRP:HH2	2.38	0.41
1:T:483:TYR:OH	1:T:507:LYS:O	2.37	0.41
1:U:526:HIS:HE1	1:U:561:ASP:OD2	2.03	0.41
1:Z:284:PHE:CE1	1:Z:618:TRP:HH2	2.38	0.41
1:a:314[A]:LYS:HD3	1:a:410:THR:CG2	2.46	0.41
1:d:429:SER:HA	1:d:567:THR:HB	2.02	0.41
1:k:345:ASP:C	1:k:347:GLU:H	2.28	0.41
1:q:429:SER:HA	1:q:567:THR:HB	2.02	0.41
1:q:447:ARG:NH2	1:q:449:ASN:O	2.53	0.41
1:q:476:ASN:OD1	1:r:633:LEU:N	2.50	0.41
1:r:526:HIS:HE1	1:r:561:ASP:OD2	2.03	0.41
1:s:348:TYR:OH	1:s:642:PRO:O	2.31	0.41
1:t:404:ARG:H	1:t:407:ASN:HD22	1.67	0.41
1:u:434:MET:HE1	1:u:470:ILE:CG2	2.49	0.41
1:w:300:ILE:HG21	1:w:300:ILE:HD13	1.80	0.41
1:w:429:SER:HA	1:w:567:THR:HB	2.02	0.41
1:y:337:THR:HA	1:y:404:ARG:HH11	1.84	0.41
1:1:525:SER:OG	1:1:561:ASP:OD1	2.33	0.41
1:5:483:TYR:OH	1:5:507:LYS:O	2.37	0.41
1:5:565:ILE:HD13	1:5:565:ILE:HG21	1.88	0.41
1:6:447:ARG:NH2	1:6:449:ASN:O	2.53	0.41
1:8:434:MET:HE1	1:8:470:ILE:CG2	2.49	0.41
1:B:225:SER:OG	1:B:317:ASN:N	2.44	0.41
1:C:509:HIS:NE2	1:M:574:GLU:OE1	2.53	0.41
1:F:345:ASP:C	1:F:347:GLU:H	2.28	0.41
1:I:429:SER:HA	1:I:567:THR:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:345:ASP:C	1:K:347:GLU:H	2.28	0.41
1:M:429:SER:HA	1:M:567:THR:HB	2.02	0.41
1:O:526:HIS:HE1	1:O:561:ASP:OD2	2.03	0.41
1:Q:284:PHE:CE1	1:Q:618:TRP:HH2	2.38	0.41
1:T:314[A]:LYS:HD3	1:T:410:THR:CG2	2.46	0.41
1:T:404:ARG:H	1:T:407:ASN:HD22	1.67	0.41
1:W:284:PHE:CE1	1:W:618:TRP:HH2	2.38	0.41
1:Y:434:MET:HE1	1:Y:470:ILE:CG2	2.49	0.41
1:Z:447:ARG:NH2	1:Z:449:ASN:O	2.53	0.41
1:a:447:ARG:NH2	1:a:449:ASN:O	2.53	0.41
1:d:433:LEU:HD11	1:d:735:LEU:CD2	2.49	0.41
1:e:433:LEU:HD11	1:e:735:LEU:CD2	2.49	0.41
1:h:345:ASP:C	1:h:347:GLU:H	2.28	0.41
1:h:434:MET:HE1	1:h:470:ILE:CG2	2.49	0.41
1:i:476:ASN:OD1	1:j:633:LEU:N	2.50	0.41
1:n:348:TYR:OH	1:n:642:PRO:O	2.31	0.41
1:o:433:LEU:HD11	1:o:735:LEU:CD2	2.49	0.41
1:o:526:HIS:HE1	1:o:561:ASP:OD2	2.03	0.41
1:p:447:ARG:NH2	1:p:449:ASN:O	2.53	0.41
1:q:404:ARG:H	1:q:407:ASN:HD22	1.67	0.41
1:r:447:ARG:NH2	1:r:449:ASN:O	2.53	0.41
1:t:365:PHE:HA	1:t:366:PRO:HD3	1.94	0.41
1:t:526:HIS:HE1	1:t:561:ASP:OD2	2.03	0.41
1:u:284:PHE:CE1	1:u:618:TRP:HH2	2.38	0.41
1:v:365:PHE:HA	1:v:366:PRO:HD3	1.94	0.41
1:v:434:MET:HE1	1:v:470:ILE:CG2	2.49	0.41
1:x:337:THR:HA	1:x:404:ARG:HH11	1.84	0.41
1:y:345:ASP:C	1:y:347:GLU:H	2.28	0.41
1:1:284:PHE:CE1	1:1:618:TRP:HH2	2.38	0.41
1:1:404:ARG:H	1:1:407:ASN:HD22	1.67	0.41
1:1:447:ARG:NH2	1:1:449:ASN:O	2.53	0.41
1:4:348:TYR:OH	1:4:642:PRO:O	2.31	0.41
1:C:483:TYR:OH	1:C:507:LYS:O	2.37	0.41
1:H:525:SER:OG	1:H:561:ASP:OD1	2.33	0.41
1:K:434:MET:HE1	1:K:470:ILE:CG2	2.49	0.41
1:L:434:MET:HE1	1:L:470:ILE:CG2	2.49	0.41
1:M:433:LEU:HD11	1:M:735:LEU:CD2	2.49	0.41
1:M:447:ARG:NH2	1:M:449:ASN:O	2.53	0.41
1:N:429:SER:HA	1:N:567:THR:HB	2.02	0.41
1:N:526:HIS:HE1	1:N:561:ASP:OD2	2.03	0.41
1:N:689:GLU:OE2	1:N:691:SER:OG	2.26	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:429:SER:HA	1:O:567:THR:HB	2.02	0.41
1:S:434:MET:HE1	1:S:470:ILE:CG2	2.49	0.41
1:U:225:SER:OG	1:U:317:ASN:N	2.44	0.41
1:W:433:LEU:HD11	1:W:735:LEU:CD2	2.49	0.41
1:X:565:ILE:HD13	1:X:565:ILE:HG21	1.88	0.41
1:Y:284:PHE:CE1	1:Y:618:TRP:HH2	2.37	0.41
1:Z:404:ARG:H	1:Z:407:ASN:HD22	1.67	0.41
1:b:404:ARG:H	1:b:407:ASN:HD22	1.67	0.41
1:d:447:ARG:NH2	1:d:449:ASN:O	2.53	0.41
1:e:284:PHE:CE1	1:e:618:TRP:HH2	2.38	0.41
1:g:407:ASN:HD21	1:k:224:SER:H	1.67	0.41
1:i:447:ARG:NH2	1:i:449:ASN:O	2.53	0.41
1:j:447:ARG:NH2	1:j:449:ASN:O	2.53	0.41
1:l:314[A]:LYS:HD3	1:l:410:THR:CG2	2.46	0.41
1:p:337:THR:HA	1:p:404:ARG:HH11	1.84	0.41
1:s:404:ARG:H	1:s:407:ASN:HD22	1.67	0.41
1:s:429:SER:HA	1:s:567:THR:HB	2.02	0.41
1:t:345:ASP:O	1:t:346:SER:OG	2.35	0.41
1:t:351:PRO:HB3	1:v:428:GLN:NE2	2.35	0.41
1:u:224:SER:H	1:2:407:ASN:HD21	1.67	0.41
1:x:284:PHE:CE1	1:x:618:TRP:HH2	2.38	0.41
1:1:429:SER:HA	1:1:567:THR:HB	2.02	0.41
1:3:337:THR:HA	1:3:404:ARG:HH11	1.84	0.41
1:C:314[A]:LYS:HD3	1:C:410:THR:CG2	2.46	0.41
1:C:337:THR:HA	1:C:404:ARG:HH11	1.84	0.41
1:D:447:ARG:NH2	1:D:449:ASN:O	2.53	0.41
1:E:526:HIS:HE1	1:E:561:ASP:OD2	2.03	0.41
1:F:284:PHE:CE1	1:F:618:TRP:HH2	2.38	0.41
1:F:404:ARG:H	1:F:407:ASN:HD22	1.67	0.41
1:G:433:LEU:HD11	1:G:735:LEU:CD2	2.49	0.41
1:G:525:SER:OG	1:G:561:ASP:OD1	2.33	0.41
1:H:447:ARG:NH2	1:H:449:ASN:O	2.53	0.41
1:I:342:VAL:HG22	1:I:648:ILE:HG13	2.03	0.41
1:I:447:ARG:NH2	1:I:449:ASN:O	2.53	0.41
1:L:225:SER:OG	1:L:317:ASN:N	2.44	0.41
1:L:447:ARG:NH2	1:L:449:ASN:O	2.53	0.41
1:O:433:LEU:HD11	1:O:735:LEU:CD2	2.49	0.41
1:P:284:PHE:CE1	1:P:618:TRP:HH2	2.38	0.41
1:Q:342:VAL:HG22	1:Q:648:ILE:HG13	2.03	0.41
1:Q:404:ARG:H	1:Q:407:ASN:HD22	1.67	0.41
1:R:434:MET:HE1	1:R:470:ILE:CG2	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:342:VAL:HG22	1:Z:648:ILE:HG13	2.03	0.41
1:Z:429:SER:HA	1:Z:567:THR:HB	2.02	0.41
1:Z:433:LEU:HD11	1:Z:735:LEU:CD2	2.49	0.41
1:g:447:ARG:NH2	1:g:449:ASN:O	2.53	0.41
1:i:434:MET:HE1	1:i:470:ILE:CG2	2.49	0.41
1:l:284:PHE:CE1	1:l:618:TRP:HH2	2.38	0.41
1:n:447:ARG:NH2	1:n:449:ASN:O	2.53	0.41
1:o:345:ASP:C	1:o:347:GLU:H	2.28	0.41
1:p:434:MET:HE1	1:p:470:ILE:CG2	2.49	0.41
1:q:284:PHE:CE1	1:q:618:TRP:HH2	2.38	0.41
1:s:284:PHE:CE1	1:s:618:TRP:HH2	2.38	0.41
1:v:447:ARG:NH2	1:v:449:ASN:O	2.53	0.41
1:y:433:LEU:HD11	1:y:735:LEU:CD2	2.49	0.41
1:1:342:VAL:HG22	1:1:648:ILE:HG13	2.03	0.41
1:6:448:THR:HG21	1:7:500:TYR:OH	2.18	0.41
1:7:284:PHE:CE1	1:7:618:TRP:HH2	2.38	0.41
1:A:429:SER:HA	1:A:567:THR:HB	2.02	0.41
1:D:348:TYR:OH	1:D:642:PRO:O	2.31	0.41
1:D:483:TYR:OH	1:D:507:LYS:O	2.37	0.41
1:H:337:THR:HA	1:H:404:ARG:HH11	1.84	0.41
1:H:434:MET:HE1	1:H:470:ILE:CG2	2.50	0.41
1:H:526:HIS:HE1	1:H:561:ASP:OD2	2.03	0.41
1:J:404:ARG:H	1:J:407:ASN:HD22	1.67	0.41
1:J:562:GLU:OE2	1:J:612:TYR:OH	2.27	0.41
1:K:342:VAL:HG22	1:K:648:ILE:HG13	2.03	0.41
1:M:511:ASN:ND2	1:b:566:ARG:HD3	2.35	0.41
1:N:433:LEU:HD11	1:N:735:LEU:CD2	2.49	0.41
1:V:443:TYR:CE1	1:V:464:GLN:HG3	2.56	0.41
1:W:404:ARG:H	1:W:407:ASN:HD22	1.67	0.41
1:W:429:SER:HA	1:W:567:THR:HB	2.02	0.41
1:Y:526:HIS:HE1	1:Y:561:ASP:OD2	2.03	0.41
1:Y:565:ILE:HD13	1:Y:565:ILE:HG21	1.88	0.41
1:b:314[A]:LYS:HD3	1:b:410:THR:CG2	2.46	0.41
1:c:348:TYR:OH	1:c:642:PRO:O	2.31	0.41
1:c:434:MET:HE1	1:c:470:ILE:CG2	2.49	0.41
1:d:342:VAL:HG22	1:d:648:ILE:HG13	2.03	0.41
1:d:345:ASP:C	1:d:347:GLU:H	2.28	0.41
1:d:448:THR:HG21	1:l:500:TYR:OH	2.18	0.41
1:e:337:THR:HA	1:e:404:ARG:HH11	1.84	0.41
1:j:342:VAL:HG22	1:j:648:ILE:HG13	2.03	0.41
1:j:365:PHE:HA	1:j:366:PRO:HD3	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:284:PHE:CE1	1:m:618:TRP:HH2	2.38	0.41
1:n:483:TYR:OH	1:n:507:LYS:O	2.37	0.41
1:o:404:ARG:H	1:o:407:ASN:HD22	1.67	0.41
1:o:443:TYR:CE1	1:o:464:GLN:HG3	2.56	0.41
1:s:342:VAL:HG22	1:s:648:ILE:HG13	2.03	0.41
1:t:433:LEU:HD11	1:t:735:LEU:CD2	2.49	0.41
1:w:342:VAL:HG22	1:w:648:ILE:HG13	2.03	0.41
1:w:447:ARG:NH2	1:w:449:ASN:O	2.53	0.41
1:x:225:SER:OG	1:x:317:ASN:N	2.44	0.41
1:1:225:SER:OG	1:1:317:ASN:N	2.44	0.41
1:1:433:LEU:HD11	1:1:735:LEU:CD2	2.49	0.41
1:8:429:SER:HA	1:8:567:THR:HB	2.02	0.41
1:A:225:SER:OG	1:A:317:ASN:N	2.44	0.41
1:C:447:ARG:NH2	1:C:449:ASN:O	2.53	0.41
1:C:448:THR:O	1:C:448:THR:HG22	2.21	0.41
1:C:488:VAL:HG12	1:M:584:GLN:NE2	2.35	0.41
1:D:433:LEU:HD11	1:D:735:LEU:CD2	2.49	0.41
1:F:633:LEU:N	1:Q:476:ASN:OD1	2.51	0.41
1:H:443:TYR:CE1	1:H:464:GLN:HG3	2.56	0.41
1:J:342:VAL:HG22	1:J:648:ILE:HG13	2.03	0.41
1:M:337:THR:HA	1:M:404:ARG:HH11	1.84	0.41
1:M:443:TYR:CE1	1:M:464:GLN:HG3	2.56	0.41
1:N:342:VAL:HG22	1:N:648:ILE:HG13	2.03	0.41
1:O:342:VAL:HG22	1:O:648:ILE:HG13	2.03	0.41
1:P:447:ARG:NH2	1:P:449:ASN:O	2.53	0.41
1:Q:429:SER:HA	1:Q:567:THR:HB	2.02	0.41
1:Q:443:TYR:CE1	1:Q:464:GLN:HG3	2.56	0.41
1:R:337:THR:HA	1:R:404:ARG:HH11	1.84	0.41
1:U:443:TYR:CE1	1:U:464:GLN:HG3	2.56	0.41
1:W:345:ASP:C	1:W:347:GLU:H	2.28	0.41
1:W:345:ASP:O	1:W:346:SER:OG	2.35	0.41
1:W:365:PHE:HA	1:W:366:PRO:HD3	1.94	0.41
1:W:443:TYR:CE1	1:W:464:GLN:HG3	2.56	0.41
1:a:526:HIS:HE1	1:a:561:ASP:OD2	2.03	0.41
1:d:337:THR:HA	1:d:404:ARG:HH11	1.84	0.41
1:j:225:SER:OG	1:j:317:ASN:N	2.44	0.41
1:k:404:ARG:H	1:k:407:ASN:HD22	1.67	0.41
1:l:447:ARG:NH2	1:l:449:ASN:O	2.53	0.41
1:l:448:THR:O	1:l:448:THR:HG22	2.21	0.41
1:m:447:ARG:NH2	1:m:449:ASN:O	2.53	0.41
1:n:314[A]:LYS:HD3	1:n:410:THR:CG2	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:433:LEU:HD11	1:n:735:LEU:CD2	2.49	0.41
1:s:443:TYR:CE1	1:s:464:GLN:HG3	2.56	0.41
1:t:429:SER:HA	1:t:567:THR:HB	2.02	0.41
1:t:443:TYR:CE1	1:t:464:GLN:HG3	2.56	0.41
1:v:443:TYR:CE1	1:v:464:GLN:HG3	2.56	0.41
1:v:525:SER:OG	1:v:561:ASP:OD1	2.33	0.41
1:x:348:TYR:OH	1:x:642:PRO:O	2.31	0.41
1:x:429:SER:HA	1:x:567:THR:HB	2.02	0.41
1:z:337:THR:HA	1:z:404:ARG:HH11	1.84	0.41
1:z:447:ARG:NH2	1:z:449:ASN:O	2.53	0.41
1:z:565:ILE:HD13	1:z:565:ILE:HG21	1.88	0.41
1:2:342:VAL:HG22	1:2:648:ILE:HG13	2.03	0.41
1:2:443:TYR:CE1	1:2:464:GLN:HG3	2.56	0.41
1:2:448:THR:O	1:2:448:THR:HG22	2.21	0.41
1:4:284:PHE:CE1	1:4:618:TRP:HH2	2.38	0.41
1:4:342:VAL:HG22	1:4:648:ILE:HG13	2.03	0.41
1:4:429:SER:HA	1:4:567:THR:HB	2.02	0.41
1:4:443:TYR:CE1	1:4:464:GLN:HG3	2.56	0.41
1:4:448:THR:O	1:4:448:THR:HG22	2.21	0.41
1:5:429:SER:HA	1:5:567:THR:HB	2.02	0.41
1:6:443:TYR:CE1	1:6:464:GLN:HG3	2.56	0.41
1:A:447:ARG:NH2	1:A:449:ASN:O	2.53	0.41
1:B:342:VAL:HG22	1:B:648:ILE:HG13	2.03	0.41
1:G:342:VAL:HG22	1:G:648:ILE:HG13	2.03	0.41
1:G:447:ARG:NH2	1:G:449:ASN:O	2.53	0.41
1:M:342:VAL:HG22	1:M:648:ILE:HG13	2.03	0.41
1:M:345:ASP:C	1:M:347:GLU:H	2.28	0.41
1:N:300:ILE:HD13	1:N:300:ILE:HG21	1.80	0.41
1:Q:526:HIS:HE1	1:Q:561:ASP:OD2	2.03	0.41
1:U:345:ASP:C	1:U:347:GLU:H	2.28	0.41
1:U:404:ARG:H	1:U:407:ASN:HD22	1.67	0.41
1:U:447:ARG:NH2	1:U:449:ASN:O	2.53	0.41
1:X:342:VAL:HG22	1:X:648:ILE:HG13	2.03	0.41
1:X:429:SER:HA	1:X:567:THR:HB	2.02	0.41
1:a:443:TYR:CE1	1:a:464:GLN:HG3	2.56	0.41
1:d:443:TYR:CE1	1:d:464:GLN:HG3	2.56	0.41
1:e:429:SER:HA	1:e:567:THR:HB	2.02	0.41
1:f:429:SER:HA	1:f:567:THR:HB	2.02	0.41
1:f:447:ARG:NH2	1:f:449:ASN:O	2.53	0.41
1:g:443:TYR:CE1	1:g:464:GLN:HG3	2.56	0.41
1:g:526:HIS:HE1	1:g:561:ASP:OD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:342:VAL:HG22	1:h:648:ILE:HG13	2.03	0.41
1:i:365:PHE:HA	1:i:366:PRO:HD3	1.94	0.41
1:k:429:SER:HA	1:k:567:THR:HB	2.02	0.41
1:o:447:ARG:NH2	1:o:449:ASN:O	2.53	0.41
1:q:300:ILE:HD13	1:q:300:ILE:HG21	1.80	0.41
1:r:562:GLU:OE2	1:r:612:TYR:OH	2.27	0.41
1:s:225:SER:OG	1:s:317:ASN:N	2.44	0.41
1:s:526:HIS:HE1	1:s:561:ASP:OD2	2.03	0.41
1:t:345:ASP:C	1:t:347:GLU:H	2.28	0.41
1:v:526:HIS:HE1	1:v:561:ASP:OD2	2.03	0.41
1:y:342:VAL:HG22	1:y:648:ILE:HG13	2.03	0.41
1:y:525:SER:OG	1:y:561:ASP:OD1	2.33	0.41
1:2:284:PHE:CE1	1:2:618:TRP:HH2	2.38	0.41
1:3:447:ARG:NH2	1:3:449:ASN:O	2.53	0.41
1:5:342:VAL:HG22	1:5:648:ILE:HG13	2.03	0.41
1:7:337:THR:HA	1:7:404:ARG:HH11	1.84	0.41
1:A:348:TYR:OH	1:A:642:PRO:O	2.31	0.41
1:A:428:GLN:NE2	1:G:351:PRO:HB3	2.34	0.41
1:B:430:LEU:HD23	1:B:430:LEU:HA	1.89	0.41
1:B:633:LEU:N	1:L:476:ASN:OD1	2.51	0.41
1:C:430:LEU:HD23	1:C:430:LEU:HA	1.89	0.41
1:D:314[A]:LYS:HD3	1:D:410:THR:CG2	2.46	0.41
1:D:443:TYR:CE1	1:D:464:GLN:HG3	2.56	0.41
1:E:342:VAL:HG22	1:E:648:ILE:HG13	2.03	0.41
1:E:562:GLU:OE2	1:E:612:TYR:OH	2.27	0.41
1:F:443:TYR:CE1	1:F:464:GLN:HG3	2.56	0.41
1:I:300:ILE:HG21	1:I:300:ILE:HD13	1.80	0.41
1:I:443:TYR:CE1	1:I:464:GLN:HG3	2.56	0.41
1:J:429:SER:HA	1:J:567:THR:HB	2.02	0.41
1:J:443:TYR:CE1	1:J:464:GLN:HG3	2.56	0.41
1:K:351:PRO:HB3	1:8:428:GLN:NE2	2.35	0.41
1:M:484:ARG:HB3	1:b:579:VAL:CG1	2.51	0.41
1:O:353:VAL:CG1	1:n:435:ASN:HB2	2.51	0.41
1:R:353:VAL:CG1	1:U:435:ASN:HB2	2.51	0.41
1:T:443:TYR:CE1	1:T:464:GLN:HG3	2.56	0.41
1:U:433:LEU:HD11	1:U:735:LEU:CD2	2.49	0.41
1:V:429:SER:HA	1:V:567:THR:HB	2.02	0.41
1:W:342:VAL:HG22	1:W:648:ILE:HG13	2.03	0.41
1:W:447:ARG:NH2	1:W:449:ASN:O	2.53	0.41
1:W:448:THR:O	1:W:448:THR:HG22	2.21	0.41
1:X:443:TYR:CE1	1:X:464:GLN:HG3	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:342:VAL:HG22	1:Y:648:ILE:HG13	2.03	0.41
1:d:404:ARG:H	1:d:407:ASN:HD22	1.67	0.41
1:e:447:ARG:NH2	1:e:449:ASN:O	2.53	0.41
1:e:448:THR:O	1:e:448:THR:HG22	2.21	0.41
1:e:631:SER:HA	1:e:632:PRO:HD3	1.97	0.41
1:f:314[A]:LYS:HD3	1:f:410:THR:CG2	2.46	0.41
1:f:342:VAL:HG22	1:f:648:ILE:HG13	2.03	0.41
1:f:345:ASP:C	1:f:347:GLU:H	2.28	0.41
1:f:443:TYR:CE1	1:f:464:GLN:HG3	2.56	0.41
1:g:633:LEU:N	1:h:476:ASN:OD1	2.50	0.41
1:h:300:ILE:HG21	1:h:300:ILE:HD13	1.80	0.41
1:i:284:PHE:CE1	1:i:618:TRP:HH2	2.38	0.41
1:i:429:SER:HA	1:i:567:THR:HB	2.02	0.41
1:k:342:VAL:HG22	1:k:648:ILE:HG13	2.03	0.41
1:k:443:TYR:CE1	1:k:464:GLN:HG3	2.56	0.41
1:k:483:TYR:OH	1:k:507:LYS:O	2.37	0.41
1:l:337:THR:HA	1:l:404:ARG:HH11	1.84	0.41
1:l:433:LEU:HD11	1:l:735:LEU:CD2	2.49	0.41
1:q:443:TYR:CE1	1:q:464:GLN:HG3	2.56	0.41
1:r:342:VAL:HG22	1:r:648:ILE:HG13	2.03	0.41
1:r:345:ASP:O	1:r:346:SER:OG	2.35	0.41
1:t:342:VAL:HG22	1:t:648:ILE:HG13	2.03	0.41
1:t:447:ARG:NH2	1:t:449:ASN:O	2.53	0.41
1:t:448:THR:O	1:t:448:THR:HG22	2.21	0.41
1:u:342:VAL:HG22	1:u:648:ILE:HG13	2.03	0.41
1:u:447:ARG:NH2	1:u:449:ASN:O	2.53	0.41
1:u:526:HIS:HE1	1:u:561:ASP:OD2	2.03	0.41
1:v:337:THR:HA	1:v:404:ARG:HH11	1.84	0.41
1:x:447:ARG:NH2	1:x:449:ASN:O	2.53	0.41
1:z:342:VAL:HG22	1:z:648:ILE:HG13	2.03	0.41
1:z:429:SER:HA	1:z:567:THR:HB	2.02	0.41
1:2:345:ASP:O	1:2:346:SER:OG	2.35	0.41
1:2:429:SER:HA	1:2:567:THR:HB	2.02	0.41
1:3:342:VAL:HG22	1:3:648:ILE:HG13	2.03	0.41
1:3:565:ILE:HD13	1:3:565:ILE:HG21	1.88	0.41
1:4:345:ASP:O	1:4:346:SER:OG	2.35	0.41
1:5:631:SER:HA	1:5:632:PRO:HD3	1.96	0.41
1:6:429:SER:HA	1:6:567:THR:HB	2.02	0.41
1:7:429:SER:HA	1:7:567:THR:HB	2.02	0.41
1:7:447:ARG:NH2	1:7:449:ASN:O	2.53	0.41
1:7:448:THR:O	1:7:448:THR:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:342:VAL:HG22	1:8:648:ILE:HG13	2.03	0.41
1:8:443:TYR:CE1	1:8:464:GLN:HG3	2.56	0.41
1:8:447:ARG:NH2	1:8:449:ASN:O	2.53	0.41
1:C:433:LEU:HD11	1:C:735:LEU:CD2	2.49	0.41
1:H:430:LEU:HD23	1:H:430:LEU:HA	1.89	0.41
1:H:448:THR:O	1:H:448:THR:HG22	2.21	0.41
1:I:448:THR:O	1:I:448:THR:HG22	2.21	0.41
1:J:483:TYR:OH	1:J:507:LYS:O	2.37	0.41
1:L:284:PHE:CE1	1:L:618:TRP:HH2	2.38	0.41
1:Q:225:SER:OG	1:Q:317:ASN:N	2.44	0.41
1:S:348:TYR:OH	1:S:642:PRO:O	2.31	0.41
1:T:341:GLN:HB3	1:T:402:MET:HG2	2.03	0.41
1:V:526:HIS:HE1	1:V:561:ASP:OD2	2.03	0.41
1:Y:300:ILE:HG21	1:Y:300:ILE:HD13	1.80	0.41
1:b:443:TYR:CE1	1:b:464:GLN:HG3	2.56	0.41
1:l:430:LEU:HD23	1:l:430:LEU:HA	1.89	0.41
1:n:404:ARG:H	1:n:407:ASN:HD22	1.67	0.41
1:n:443:TYR:CE1	1:n:464:GLN:HG3	2.56	0.41
1:p:342:VAL:HG22	1:p:648:ILE:HG13	2.03	0.41
1:v:448:THR:O	1:v:448:THR:HG22	2.21	0.41
1:w:348:TYR:OH	1:w:642:PRO:O	2.31	0.41
1:w:443:TYR:CE1	1:w:464:GLN:HG3	2.56	0.41
1:w:448:THR:O	1:w:448:THR:HG22	2.21	0.41
1:x:443:TYR:CE1	1:x:464:GLN:HG3	2.56	0.41
1:x:448:THR:O	1:x:448:THR:HG22	2.21	0.41
1:y:447:ARG:NH2	1:y:449:ASN:O	2.53	0.41
1:1:277:THR:OG1	1:1:375:TYR:O	2.30	0.41
1:3:448:THR:O	1:3:448:THR:HG22	2.21	0.41
1:4:427:SER:HB3	1:4:732:THR:HG21	2.03	0.41
1:5:443:TYR:CE1	1:5:464:GLN:HG3	2.56	0.41
1:5:447:ARG:NH2	1:5:449:ASN:O	2.53	0.41
1:5:448:THR:HG21	1:6:500:TYR:OH	2.19	0.41
1:6:342:VAL:HG22	1:6:648:ILE:HG13	2.03	0.41
1:6:526:HIS:HE1	1:6:561:ASP:OD2	2.03	0.41
1:8:314[A]:LYS:HD3	1:8:410:THR:CG2	2.46	0.41
1:8:345:ASP:C	1:8:347:GLU:H	2.28	0.41
1:A:342:VAL:HG22	1:A:648:ILE:HG13	2.03	0.40
1:A:443:TYR:CE1	1:A:464:GLN:HG3	2.56	0.40
1:A:448:THR:O	1:A:448:THR:HG22	2.21	0.40
1:B:448:THR:O	1:B:448:THR:HG22	2.21	0.40
1:C:341:GLN:HB3	1:C:402:MET:HG2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:476:ASN:OD1	1:b:632:PRO:HB3	2.21	0.40
1:D:404:ARG:H	1:D:407:ASN:HD22	1.67	0.40
1:L:429:SER:HA	1:L:567:THR:HB	2.02	0.40
1:O:448:THR:HG22	1:O:448:THR:O	2.21	0.40
1:R:342:VAL:HG22	1:R:648:ILE:HG13	2.03	0.40
1:S:429:SER:HA	1:S:567:THR:HB	2.02	0.40
1:T:365:PHE:HA	1:T:366:PRO:HD3	1.94	0.40
1:U:342:VAL:HG22	1:U:648:ILE:HG13	2.03	0.40
1:Y:447:ARG:NH2	1:Y:449:ASN:O	2.53	0.40
1:a:342:VAL:HG22	1:a:648:ILE:HG13	2.03	0.40
1:b:341:GLN:HB3	1:b:402:MET:HG2	2.03	0.40
1:c:429:SER:HA	1:c:567:THR:HB	2.02	0.40
1:e:341:GLN:HB3	1:e:402:MET:HG2	2.03	0.40
1:f:427:SER:HB3	1:f:732:THR:HG21	2.04	0.40
1:j:435:ASN:HB2	1:k:353:VAL:CG1	2.52	0.40
1:j:448:THR:O	1:j:448:THR:HG22	2.21	0.40
1:l:341:GLN:HB3	1:l:402:MET:HG2	2.04	0.40
1:o:427:SER:HB3	1:o:732:THR:HG21	2.04	0.40
1:s:483:TYR:OH	1:s:507:LYS:O	2.37	0.40
1:u:448:THR:O	1:u:448:THR:HG22	2.21	0.40
1:u:476:ASN:OD1	1:v:633:LEU:N	2.51	0.40
1:x:342:VAL:HG22	1:x:648:ILE:HG13	2.03	0.40
1:x:427:SER:HB3	1:x:732:THR:HG21	2.04	0.40
1:x:448:THR:HG21	1:y:500:TYR:OH	2.19	0.40
1:y:225:SER:OG	1:y:317:ASN:N	2.44	0.40
1:z:448:THR:O	1:z:448:THR:HG22	2.21	0.40
1:2:427:SER:HB3	1:2:732:THR:HG21	2.04	0.40
1:5:341:GLN:HB3	1:5:402:MET:HG2	2.03	0.40
1:8:427:SER:HB3	1:8:732:THR:HG21	2.04	0.40
1:A:427:SER:HB3	1:A:732:THR:HG21	2.04	0.40
1:A:448:THR:HG21	1:G:500:TYR:OH	2.20	0.40
1:D:365:PHE:HA	1:D:366:PRO:HD3	1.94	0.40
1:D:633:LEU:N	1:P:476:ASN:OD1	2.51	0.40
1:I:348:TYR:OH	1:I:642:PRO:O	2.31	0.40
1:I:433:LEU:HD11	1:I:735:LEU:CD2	2.49	0.40
1:K:427:SER:HB3	1:K:732:THR:HG21	2.04	0.40
1:L:365:PHE:HA	1:L:366:PRO:HD3	1.94	0.40
1:P:443:TYR:CE1	1:P:464:GLN:HG3	2.56	0.40
1:Q:345:ASP:O	1:Q:346:SER:OG	2.35	0.40
1:Q:483:TYR:OH	1:Q:507:LYS:O	2.37	0.40
1:S:443:TYR:CE1	1:S:464:GLN:HG3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:427:SER:HB3	1:U:732:THR:HG21	2.04	0.40
1:V:342:VAL:HG22	1:V:648:ILE:HG13	2.03	0.40
1:V:448:THR:HG21	1:e:500:TYR:OH	2.19	0.40
1:X:248:ALA:HB2	1:Y:654:PRO:HG2	2.04	0.40
1:X:341:GLN:HB3	1:X:402:MET:HG2	2.04	0.40
1:X:447:ARG:NH2	1:X:449:ASN:O	2.53	0.40
1:Y:448:THR:O	1:Y:448:THR:HG22	2.21	0.40
1:Z:427:SER:HB3	1:Z:732:THR:HG21	2.04	0.40
1:Z:448:THR:HG22	1:Z:448:THR:O	2.21	0.40
1:c:443:TYR:CE1	1:c:464:GLN:HG3	2.56	0.40
1:c:448:THR:HG21	1:o:500:TYR:OH	2.19	0.40
1:g:342:VAL:HG22	1:g:648:ILE:HG13	2.03	0.40
1:j:430:LEU:HD23	1:j:430:LEU:HA	1.89	0.40
1:m:443:TYR:CE1	1:m:464:GLN:HG3	2.56	0.40
1:p:448:THR:HG22	1:p:448:THR:O	2.21	0.40
1:r:689:GLU:OE2	1:r:691:SER:OG	2.26	0.40
1:t:341:GLN:HB3	1:t:402:MET:HG2	2.03	0.40
1:t:483:TYR:OH	1:t:507:LYS:O	2.37	0.40
1:t:633:LEU:N	1:v:476:ASN:OD1	2.50	0.40
1:w:353:VAL:CG1	1:y:435:ASN:HB2	2.51	0.40
1:z:476:ASN:OD1	1:1:633:LEU:N	2.50	0.40
1:1:448:THR:HG22	1:1:448:THR:O	2.21	0.40
1:3:429:SER:HA	1:3:567:THR:HB	2.02	0.40
1:B:443:TYR:CE1	1:B:464:GLN:HG3	2.56	0.40
1:C:342:VAL:HG22	1:C:648:ILE:HG13	2.03	0.40
1:E:448:THR:O	1:E:448:THR:HG22	2.21	0.40
1:F:342:VAL:HG22	1:F:648:ILE:HG13	2.03	0.40
1:F:500:TYR:OH	1:Q:448:THR:HG21	2.19	0.40
1:G:443:TYR:CE1	1:G:464:GLN:HG3	2.56	0.40
1:J:433:LEU:HD11	1:J:735:LEU:CD2	2.49	0.40
1:J:433:LEU:HD21	1:J:735:LEU:HD22	2.04	0.40
1:J:689:GLU:OE2	1:J:691:SER:OG	2.26	0.40
1:N:448:THR:HG22	1:N:448:THR:O	2.21	0.40
1:R:429:SER:HA	1:R:567:THR:HB	2.02	0.40
1:R:448:THR:HG22	1:R:448:THR:O	2.21	0.40
1:S:342:VAL:HG22	1:S:648:ILE:HG13	2.03	0.40
1:T:300:ILE:HG21	1:T:300:ILE:HD13	1.80	0.40
1:T:435:ASN:HB2	1:d:353:VAL:CG1	2.52	0.40
1:T:448:THR:O	1:T:448:THR:HG22	2.21	0.40
1:V:353:VAL:CG1	1:X:435:ASN:HB2	2.51	0.40
1:W:341:GLN:HB3	1:W:402:MET:HG2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:483:TYR:OH	1:W:507:LYS:O	2.37	0.40
1:X:433:LEU:HD21	1:X:735:LEU:HD22	2.04	0.40
1:a:429:SER:HA	1:a:567:THR:HB	2.02	0.40
1:a:433:LEU:HD21	1:a:735:LEU:HD22	2.04	0.40
1:c:427:SER:HB3	1:c:732:THR:HG21	2.04	0.40
1:f:448:THR:O	1:f:448:THR:HG22	2.21	0.40
1:g:433:LEU:HD21	1:g:735:LEU:HD22	2.04	0.40
1:h:427:SER:HB3	1:h:732:THR:HG21	2.04	0.40
1:i:448:THR:O	1:i:448:THR:HG22	2.21	0.40
1:j:443:TYR:CE1	1:j:464:GLN:HG3	2.56	0.40
1:k:306:PHE:HA	1:k:685:GLU:O	2.22	0.40
1:k:427:SER:HB3	1:k:732:THR:HG21	2.04	0.40
1:k:433:LEU:HD21	1:k:735:LEU:HD22	2.04	0.40
1:k:689:GLU:OE2	1:k:691:SER:OG	2.26	0.40
1:m:429:SER:HA	1:m:567:THR:HB	2.02	0.40
1:n:342:VAL:HG22	1:n:648:ILE:HG13	2.03	0.40
1:o:342:VAL:HG22	1:o:648:ILE:HG13	2.03	0.40
1:r:306:PHE:HA	1:r:685:GLU:O	2.22	0.40
1:u:430:LEU:HD23	1:u:430:LEU:HA	1.89	0.40
1:u:443:TYR:CE1	1:u:464:GLN:HG3	2.56	0.40
1:w:435:ASN:HB2	1:x:353:VAL:CG1	2.52	0.40
1:y:443:TYR:CE1	1:y:464:GLN:HG3	2.56	0.40
1:z:306:PHE:HA	1:z:685:GLU:O	2.22	0.40
1:1:427:SER:HB3	1:1:732:THR:HG21	2.04	0.40
1:3:306:PHE:HA	1:3:685:GLU:O	2.22	0.40
1:5:433:LEU:HD21	1:5:735:LEU:HD22	2.04	0.40
1:6:309:LYS:HA	1:6:309:LYS:HD2	1.94	0.40
1:7:341:GLN:HB3	1:7:402:MET:HG2	2.04	0.40
1:8:448:THR:O	1:8:448:THR:HG22	2.21	0.40
1:B:433:LEU:HD21	1:B:735:LEU:HD22	2.04	0.40
1:C:443:TYR:CE1	1:C:464:GLN:HG3	2.56	0.40
1:C:692:LYS:HA	1:C:692:LYS:HD2	1.95	0.40
1:E:306:PHE:HA	1:E:685:GLU:O	2.22	0.40
1:E:689:GLU:OE2	1:E:691:SER:OG	2.26	0.40
1:G:225:SER:OG	1:G:317:ASN:N	2.44	0.40
1:G:277:THR:OG1	1:G:375:TYR:O	2.30	0.40
1:G:435:ASN:HB2	1:I:353:VAL:CG1	2.51	0.40
1:J:306:PHE:HA	1:J:685:GLU:O	2.22	0.40
1:J:427:SER:HB3	1:J:732:THR:HG21	2.04	0.40
1:K:300:ILE:HG21	1:K:300:ILE:HD13	1.80	0.40
1:L:342:VAL:HG22	1:L:648:ILE:HG13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:448:THR:O	1:L:448:THR:HG22	2.21	0.40
1:M:404:ARG:H	1:M:407:ASN:HD22	1.67	0.40
1:R:443:TYR:CE1	1:R:464:GLN:HG3	2.56	0.40
1:S:306:PHE:HA	1:S:685:GLU:O	2.22	0.40
1:S:427:SER:HB3	1:S:732:THR:HG21	2.04	0.40
1:U:341:GLN:HB3	1:U:402:MET:HG2	2.04	0.40
1:U:345:ASP:O	1:U:346:SER:OG	2.35	0.40
1:V:341:GLN:HB3	1:V:402:MET:HG2	2.03	0.40
1:e:365:PHE:HA	1:e:366:PRO:HD3	1.94	0.40
1:g:429:SER:HA	1:g:567:THR:HB	2.02	0.40
1:j:433:LEU:HD21	1:j:735:LEU:HD22	2.04	0.40
1:l:443:TYR:CE1	1:l:464:GLN:HG3	2.56	0.40
1:o:341:GLN:HB3	1:o:402:MET:HG2	2.03	0.40
1:p:429:SER:HA	1:p:567:THR:HB	2.02	0.40
1:q:342:VAL:HG22	1:q:648:ILE:HG13	2.03	0.40
1:r:430:LEU:HD23	1:r:430:LEU:HA	1.89	0.40
1:r:448:THR:HG21	1:s:500:TYR:OH	2.18	0.40
1:r:448:THR:O	1:r:448:THR:HG22	2.21	0.40
1:s:345:ASP:O	1:s:346:SER:OG	2.35	0.40
1:t:430:LEU:HD23	1:t:430:LEU:HA	1.89	0.40
1:u:306:PHE:HA	1:u:685:GLU:O	2.22	0.40
1:w:433:LEU:HD11	1:w:735:LEU:CD2	2.49	0.40
1:x:428:GLN:NE2	1:y:351:PRO:HB3	2.34	0.40
1:y:277:THR:OG1	1:y:375:TYR:O	2.30	0.40
1:z:433:LEU:HD21	1:z:735:LEU:HD22	2.04	0.40
1:z:435:ASN:HB2	1:1:353:VAL:CG1	2.52	0.40
1:2:433:LEU:HD21	1:2:735:LEU:HD22	2.04	0.40
1:5:427:SER:HB3	1:5:732:THR:HG21	2.04	0.40
1:6:306:PHE:HA	1:6:685:GLU:O	2.22	0.40
1:6:341:GLN:HB3	1:6:402:MET:HG2	2.03	0.40
1:8:433:LEU:HD21	1:8:735:LEU:HD22	2.04	0.40
1:C:654:PRO:HG2	1:D:248:ALA:HB2	2.04	0.40
1:D:435:ASN:HB2	1:N:353:VAL:CG1	2.52	0.40
1:F:433:LEU:HD21	1:F:735:LEU:HD22	2.04	0.40
1:F:448:THR:O	1:F:448:THR:HG22	2.21	0.40
1:I:427:SER:HB3	1:I:732:THR:HG21	2.04	0.40
1:J:365:PHE:HA	1:J:366:PRO:HD3	1.94	0.40
1:L:341:GLN:HB3	1:L:402:MET:HG2	2.04	0.40
1:M:351:PRO:HB3	1:b:428:GLN:NE2	2.36	0.40
1:M:448:THR:O	1:M:448:THR:HG22	2.21	0.40
1:R:309:LYS:HA	1:R:309:LYS:HD2	1.94	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:300:ILE:HG21	1:S:300:ILE:HD13	1.80	0.40
1:T:353:VAL:CG1	1:l:435:ASN:HB2	2.52	0.40
1:V:309:LYS:HA	1:V:309:LYS:HD2	1.94	0.40
1:V:427:SER:HB3	1:V:732:THR:HG21	2.04	0.40
1:X:345:ASP:O	1:X:346:SER:OG	2.35	0.40
1:X:427:SER:HB3	1:X:732:THR:HG21	2.04	0.40
1:Y:306:PHE:HA	1:Y:685:GLU:O	2.22	0.40
1:Y:443:TYR:CE1	1:Y:464:GLN:HG3	2.56	0.40
1:Z:277:THR:OG1	1:Z:375:TYR:O	2.30	0.40
1:Z:443:TYR:CE1	1:Z:464:GLN:HG3	2.56	0.40
1:b:345:ASP:O	1:b:346:SER:OG	2.35	0.40
1:b:365:PHE:HA	1:b:366:PRO:HD3	1.94	0.40
1:c:306:PHE:HA	1:c:685:GLU:O	2.22	0.40
1:c:342:VAL:HG22	1:c:648:ILE:HG13	2.03	0.40
1:d:448:THR:O	1:d:448:THR:HG22	2.21	0.40
1:i:341:GLN:HB3	1:i:402:MET:HG2	2.03	0.40
1:i:342:VAL:HG22	1:i:648:ILE:HG13	2.03	0.40
1:i:353:VAL:CG1	1:k:435:ASN:HB2	2.51	0.40
1:k:365:PHE:HA	1:k:366:PRO:HD3	1.94	0.40
1:k:433:LEU:HD11	1:k:735:LEU:CD2	2.49	0.40
1:l:342:VAL:HG22	1:l:648:ILE:HG13	2.03	0.40
1:q:433:LEU:HD21	1:q:735:LEU:HD22	2.04	0.40
1:q:448:THR:O	1:q:448:THR:HG22	2.21	0.40
1:r:433:LEU:HD21	1:r:735:LEU:HD22	2.04	0.40
1:s:341:GLN:HB3	1:s:402:MET:HG2	2.03	0.40
1:t:306:PHE:HA	1:t:685:GLU:O	2.22	0.40
1:u:435:ASN:HB2	1:v:353:VAL:CG1	2.52	0.40
1:v:689:GLU:OE2	1:v:691:SER:OG	2.26	0.40
1:1:443:TYR:CE1	1:1:464:GLN:HG3	2.56	0.40
1:3:443:TYR:CE1	1:3:464:GLN:HG3	2.56	0.40
1:4:309:LYS:HA	1:4:309:LYS:HD2	1.94	0.40
1:4:433:LEU:HD21	1:4:735:LEU:HD22	2.04	0.40
1:6:427:SER:HB3	1:6:732:THR:HG21	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	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	2	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	3	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	4	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	5	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	6	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	7	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	8	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	A	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	B	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	C	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	D	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	E	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	F	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	G	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	H	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	I	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	J	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	K	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	L	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	M	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	N	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	O	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	P	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	Q	521/522 (100%)	507 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	S	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	T	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	U	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	V	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	W	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	X	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	Y	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	Z	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	a	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	b	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	c	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	d	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	e	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	f	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	g	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	h	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	i	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	j	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	k	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	l	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	m	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	n	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	o	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	p	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	q	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	r	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	s	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	t	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	u	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	v	521/522 (100%)	507 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	x	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	y	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
1	z	521/522 (100%)	507 (97%)	14 (3%)	0	100	100
All	All	31260/31320 (100%)	30420 (97%)	840 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	2	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	3	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	4	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	5	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	6	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	7	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	8	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	A	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	B	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	C	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	D	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	E	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	F	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	G	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	H	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	I	463/462 (100%)	460 (99%)	3 (1%)	78	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	K	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	L	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	M	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	N	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	O	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	P	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	Q	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	R	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	S	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	T	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	U	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	V	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	W	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	X	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	Y	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	Z	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	a	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	b	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	c	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	d	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	e	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	f	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	g	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	h	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	i	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	j	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	k	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	l	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	m	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	n	463/462 (100%)	460 (99%)	3 (1%)	78	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	o	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	p	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	q	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	r	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	s	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	t	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	u	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	v	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	w	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	x	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	y	463/462 (100%)	460 (99%)	3 (1%)	78	87
1	z	463/462 (100%)	460 (99%)	3 (1%)	78	87
All	All	27780/27720 (100%)	27600 (99%)	180 (1%)	81	87

All (180) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	310[A]	ARG
1	A	310[B]	ARG
1	A	434	MET
1	B	310[A]	ARG
1	B	310[B]	ARG
1	B	434	MET
1	C	310[A]	ARG
1	C	310[B]	ARG
1	C	434	MET
1	D	310[A]	ARG
1	D	310[B]	ARG
1	D	434	MET
1	E	310[A]	ARG
1	E	310[B]	ARG
1	E	434	MET
1	F	310[A]	ARG
1	F	310[B]	ARG
1	F	434	MET
1	G	310[A]	ARG
1	G	310[B]	ARG
1	G	434	MET

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Mol	Chain	Res	Type
1	H	310[A]	ARG
1	H	310[B]	ARG
1	H	434	MET
1	I	310[A]	ARG
1	I	310[B]	ARG
1	I	434	MET
1	J	310[A]	ARG
1	J	310[B]	ARG
1	J	434	MET
1	K	310[A]	ARG
1	K	310[B]	ARG
1	K	434	MET
1	L	310[A]	ARG
1	L	310[B]	ARG
1	L	434	MET
1	M	310[A]	ARG
1	M	310[B]	ARG
1	M	434	MET
1	N	310[A]	ARG
1	N	310[B]	ARG
1	N	434	MET
1	O	310[A]	ARG
1	O	310[B]	ARG
1	O	434	MET
1	P	310[A]	ARG
1	P	310[B]	ARG
1	P	434	MET
1	Q	310[A]	ARG
1	Q	310[B]	ARG
1	Q	434	MET
1	R	310[A]	ARG
1	R	310[B]	ARG
1	R	434	MET
1	S	310[A]	ARG
1	S	310[B]	ARG
1	S	434	MET
1	T	310[A]	ARG
1	T	310[B]	ARG
1	T	434	MET
1	U	310[A]	ARG
1	U	310[B]	ARG
1	U	434	MET

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Mol	Chain	Res	Type
1	V	310[A]	ARG
1	V	310[B]	ARG
1	V	434	MET
1	W	310[A]	ARG
1	W	310[B]	ARG
1	W	434	MET
1	X	310[A]	ARG
1	X	310[B]	ARG
1	X	434	MET
1	Y	310[A]	ARG
1	Y	310[B]	ARG
1	Y	434	MET
1	Z	310[A]	ARG
1	Z	310[B]	ARG
1	Z	434	MET
1	a	310[A]	ARG
1	a	310[B]	ARG
1	a	434	MET
1	b	310[A]	ARG
1	b	310[B]	ARG
1	b	434	MET
1	c	310[A]	ARG
1	c	310[B]	ARG
1	c	434	MET
1	d	310[A]	ARG
1	d	310[B]	ARG
1	d	434	MET
1	e	310[A]	ARG
1	e	310[B]	ARG
1	e	434	MET
1	f	310[A]	ARG
1	f	310[B]	ARG
1	f	434	MET
1	g	310[A]	ARG
1	g	310[B]	ARG
1	g	434	MET
1	h	310[A]	ARG
1	h	310[B]	ARG
1	h	434	MET
1	i	310[A]	ARG
1	i	310[B]	ARG
1	i	434	MET

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Mol	Chain	Res	Type
1	j	310[A]	ARG
1	j	310[B]	ARG
1	j	434	MET
1	k	310[A]	ARG
1	k	310[B]	ARG
1	k	434	MET
1	l	310[A]	ARG
1	l	310[B]	ARG
1	l	434	MET
1	m	310[A]	ARG
1	m	310[B]	ARG
1	m	434	MET
1	n	310[A]	ARG
1	n	310[B]	ARG
1	n	434	MET
1	o	310[A]	ARG
1	o	310[B]	ARG
1	o	434	MET
1	p	310[A]	ARG
1	p	310[B]	ARG
1	p	434	MET
1	q	310[A]	ARG
1	q	310[B]	ARG
1	q	434	MET
1	r	310[A]	ARG
1	r	310[B]	ARG
1	r	434	MET
1	s	310[A]	ARG
1	s	310[B]	ARG
1	s	434	MET
1	t	310[A]	ARG
1	t	310[B]	ARG
1	t	434	MET
1	u	310[A]	ARG
1	u	310[B]	ARG
1	u	434	MET
1	v	310[A]	ARG
1	v	310[B]	ARG
1	v	434	MET
1	w	310[A]	ARG
1	w	310[B]	ARG
1	w	434	MET

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Mol	Chain	Res	Type
1	x	310[A]	ARG
1	x	310[B]	ARG
1	x	434	MET
1	y	310[A]	ARG
1	y	310[B]	ARG
1	y	434	MET
1	z	310[A]	ARG
1	z	310[B]	ARG
1	z	434	MET
1	1	310[A]	ARG
1	1	310[B]	ARG
1	1	434	MET
1	2	310[A]	ARG
1	2	310[B]	ARG
1	2	434	MET
1	3	310[A]	ARG
1	3	310[B]	ARG
1	3	434	MET
1	4	310[A]	ARG
1	4	310[B]	ARG
1	4	434	MET
1	5	310[A]	ARG
1	5	310[B]	ARG
1	5	434	MET
1	6	310[A]	ARG
1	6	310[B]	ARG
1	6	434	MET
1	7	310[A]	ARG
1	7	310[B]	ARG
1	7	434	MET
1	8	310[A]	ARG
1	8	310[B]	ARG
1	8	434	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (827) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	229	HIS
1	A	263	GLN
1	A	290	HIS
1	A	302	ASN
1	A	341	GLN

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Mol	Chain	Res	Type
1	A	382	ASN
1	A	407	ASN
1	A	421	HIS
1	A	426	HIS
1	A	551	ASN
1	A	598	GLN
1	A	627	HIS
1	A	645	GLN
1	B	229	HIS
1	B	263	GLN
1	B	290	HIS
1	B	302	ASN
1	B	341	GLN
1	B	382	ASN
1	B	407	ASN
1	B	421	HIS
1	B	426	HIS
1	B	428	GLN
1	B	551	ASN
1	B	598	GLN
1	B	627	HIS
1	B	645	GLN
1	C	229	HIS
1	C	263	GLN
1	C	290	HIS
1	C	302	ASN
1	C	341	GLN
1	C	407	ASN
1	C	421	HIS
1	C	426	HIS
1	C	428	GLN
1	C	551	ASN
1	C	598	GLN
1	C	627	HIS
1	C	645	GLN
1	C	717	ASN
1	D	229	HIS
1	D	263	GLN
1	D	290	HIS
1	D	302	ASN
1	D	341	GLN
1	D	382	ASN

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Mol	Chain	Res	Type
1	D	407	ASN
1	D	421	HIS
1	D	426	HIS
1	D	428	GLN
1	D	551	ASN
1	D	598	GLN
1	D	627	HIS
1	D	645	GLN
1	E	229	HIS
1	E	263	GLN
1	E	290	HIS
1	E	302	ASN
1	E	341	GLN
1	E	382	ASN
1	E	407	ASN
1	E	421	HIS
1	E	426	HIS
1	E	551	ASN
1	E	598	GLN
1	E	627	HIS
1	E	645	GLN
1	F	229	HIS
1	F	263	GLN
1	F	290	HIS
1	F	302	ASN
1	F	341	GLN
1	F	382	ASN
1	F	407	ASN
1	F	421	HIS
1	F	426	HIS
1	F	428	GLN
1	F	551	ASN
1	F	598	GLN
1	F	627	HIS
1	F	645	GLN
1	G	229	HIS
1	G	263	GLN
1	G	290	HIS
1	G	302	ASN
1	G	341	GLN
1	G	382	ASN
1	G	407	ASN

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Mol	Chain	Res	Type
1	G	421	HIS
1	G	426	HIS
1	G	551	ASN
1	G	598	GLN
1	G	627	HIS
1	G	645	GLN
1	G	717	ASN
1	H	229	HIS
1	H	263	GLN
1	H	290	HIS
1	H	302	ASN
1	H	341	GLN
1	H	382	ASN
1	H	407	ASN
1	H	421	HIS
1	H	426	HIS
1	H	551	ASN
1	H	598	GLN
1	H	627	HIS
1	H	645	GLN
1	H	717	ASN
1	I	229	HIS
1	I	263	GLN
1	I	290	HIS
1	I	302	ASN
1	I	341	GLN
1	I	382	ASN
1	I	407	ASN
1	I	421	HIS
1	I	426	HIS
1	I	551	ASN
1	I	598	GLN
1	I	627	HIS
1	I	645	GLN
1	I	717	ASN
1	J	229	HIS
1	J	263	GLN
1	J	290	HIS
1	J	302	ASN
1	J	341	GLN
1	J	382	ASN
1	J	407	ASN

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Mol	Chain	Res	Type
1	J	421	HIS
1	J	426	HIS
1	J	551	ASN
1	J	598	GLN
1	J	627	HIS
1	J	645	GLN
1	J	717	ASN
1	K	229	HIS
1	K	263	GLN
1	K	290	HIS
1	K	302	ASN
1	K	341	GLN
1	K	382	ASN
1	K	407	ASN
1	K	421	HIS
1	K	426	HIS
1	K	551	ASN
1	K	598	GLN
1	K	627	HIS
1	K	645	GLN
1	K	717	ASN
1	L	229	HIS
1	L	263	GLN
1	L	290	HIS
1	L	302	ASN
1	L	341	GLN
1	L	382	ASN
1	L	407	ASN
1	L	421	HIS
1	L	426	HIS
1	L	551	ASN
1	L	598	GLN
1	L	627	HIS
1	L	645	GLN
1	M	229	HIS
1	M	263	GLN
1	M	290	HIS
1	M	302	ASN
1	M	341	GLN
1	M	407	ASN
1	M	421	HIS
1	M	426	HIS

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Mol	Chain	Res	Type
1	M	551	ASN
1	M	598	GLN
1	M	627	HIS
1	M	645	GLN
1	N	229	HIS
1	N	263	GLN
1	N	290	HIS
1	N	302	ASN
1	N	341	GLN
1	N	382	ASN
1	N	407	ASN
1	N	421	HIS
1	N	426	HIS
1	N	518	ASN
1	N	551	ASN
1	N	598	GLN
1	N	627	HIS
1	N	645	GLN
1	N	717	ASN
1	O	229	HIS
1	O	263	GLN
1	O	290	HIS
1	O	302	ASN
1	O	341	GLN
1	O	382	ASN
1	O	407	ASN
1	O	421	HIS
1	O	426	HIS
1	O	518	ASN
1	O	551	ASN
1	O	598	GLN
1	O	627	HIS
1	O	645	GLN
1	P	229	HIS
1	P	263	GLN
1	P	290	HIS
1	P	302	ASN
1	P	341	GLN
1	P	382	ASN
1	P	407	ASN
1	P	421	HIS
1	P	426	HIS

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Mol	Chain	Res	Type
1	P	551	ASN
1	P	598	GLN
1	P	627	HIS
1	P	645	GLN
1	P	717	ASN
1	Q	229	HIS
1	Q	263	GLN
1	Q	290	HIS
1	Q	302	ASN
1	Q	341	GLN
1	Q	382	ASN
1	Q	407	ASN
1	Q	421	HIS
1	Q	426	HIS
1	Q	551	ASN
1	Q	598	GLN
1	Q	627	HIS
1	Q	645	GLN
1	R	229	HIS
1	R	263	GLN
1	R	290	HIS
1	R	302	ASN
1	R	341	GLN
1	R	382	ASN
1	R	407	ASN
1	R	421	HIS
1	R	426	HIS
1	R	428	GLN
1	R	551	ASN
1	R	598	GLN
1	R	627	HIS
1	R	645	GLN
1	S	229	HIS
1	S	263	GLN
1	S	290	HIS
1	S	302	ASN
1	S	341	GLN
1	S	382	ASN
1	S	407	ASN
1	S	421	HIS
1	S	426	HIS
1	S	551	ASN

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Mol	Chain	Res	Type
1	S	598	GLN
1	S	627	HIS
1	S	645	GLN
1	T	229	HIS
1	T	263	GLN
1	T	290	HIS
1	T	302	ASN
1	T	341	GLN
1	T	382	ASN
1	T	407	ASN
1	T	421	HIS
1	T	426	HIS
1	T	551	ASN
1	T	598	GLN
1	T	627	HIS
1	T	645	GLN
1	U	229	HIS
1	U	263	GLN
1	U	290	HIS
1	U	302	ASN
1	U	341	GLN
1	U	382	ASN
1	U	407	ASN
1	U	421	HIS
1	U	426	HIS
1	U	428	GLN
1	U	551	ASN
1	U	598	GLN
1	U	627	HIS
1	U	645	GLN
1	U	717	ASN
1	V	229	HIS
1	V	263	GLN
1	V	290	HIS
1	V	302	ASN
1	V	341	GLN
1	V	382	ASN
1	V	407	ASN
1	V	421	HIS
1	V	426	HIS
1	V	551	ASN
1	V	598	GLN

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Mol	Chain	Res	Type
1	V	627	HIS
1	V	645	GLN
1	V	717	ASN
1	W	229	HIS
1	W	263	GLN
1	W	290	HIS
1	W	302	ASN
1	W	341	GLN
1	W	382	ASN
1	W	407	ASN
1	W	421	HIS
1	W	426	HIS
1	W	551	ASN
1	W	598	GLN
1	W	627	HIS
1	W	645	GLN
1	X	229	HIS
1	X	263	GLN
1	X	290	HIS
1	X	302	ASN
1	X	341	GLN
1	X	382	ASN
1	X	407	ASN
1	X	421	HIS
1	X	426	HIS
1	X	551	ASN
1	X	598	GLN
1	X	627	HIS
1	X	645	GLN
1	X	717	ASN
1	Y	229	HIS
1	Y	263	GLN
1	Y	290	HIS
1	Y	302	ASN
1	Y	341	GLN
1	Y	382	ASN
1	Y	407	ASN
1	Y	421	HIS
1	Y	426	HIS
1	Y	551	ASN
1	Y	598	GLN
1	Y	627	HIS

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Mol	Chain	Res	Type
1	Y	645	GLN
1	Z	229	HIS
1	Z	263	GLN
1	Z	290	HIS
1	Z	302	ASN
1	Z	341	GLN
1	Z	382	ASN
1	Z	407	ASN
1	Z	421	HIS
1	Z	426	HIS
1	Z	551	ASN
1	Z	598	GLN
1	Z	627	HIS
1	Z	645	GLN
1	Z	717	ASN
1	a	229	HIS
1	a	263	GLN
1	a	290	HIS
1	a	302	ASN
1	a	341	GLN
1	a	382	ASN
1	a	407	ASN
1	a	421	HIS
1	a	426	HIS
1	a	428	GLN
1	a	551	ASN
1	a	598	GLN
1	a	627	HIS
1	a	645	GLN
1	b	229	HIS
1	b	263	GLN
1	b	290	HIS
1	b	302	ASN
1	b	341	GLN
1	b	382	ASN
1	b	407	ASN
1	b	421	HIS
1	b	426	HIS
1	b	551	ASN
1	b	598	GLN
1	b	627	HIS
1	b	645	GLN

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Mol	Chain	Res	Type
1	b	717	ASN
1	c	229	HIS
1	c	263	GLN
1	c	290	HIS
1	c	302	ASN
1	c	341	GLN
1	c	382	ASN
1	c	407	ASN
1	c	421	HIS
1	c	426	HIS
1	c	551	ASN
1	c	598	GLN
1	c	627	HIS
1	c	645	GLN
1	d	229	HIS
1	d	263	GLN
1	d	290	HIS
1	d	302	ASN
1	d	341	GLN
1	d	382	ASN
1	d	407	ASN
1	d	421	HIS
1	d	426	HIS
1	d	551	ASN
1	d	598	GLN
1	d	627	HIS
1	d	645	GLN
1	d	717	ASN
1	e	229	HIS
1	e	263	GLN
1	e	290	HIS
1	e	302	ASN
1	e	341	GLN
1	e	382	ASN
1	e	407	ASN
1	e	421	HIS
1	e	426	HIS
1	e	428	GLN
1	e	551	ASN
1	e	598	GLN
1	e	627	HIS
1	e	645	GLN

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Mol	Chain	Res	Type
1	e	717	ASN
1	f	229	HIS
1	f	263	GLN
1	f	290	HIS
1	f	302	ASN
1	f	341	GLN
1	f	382	ASN
1	f	407	ASN
1	f	421	HIS
1	f	426	HIS
1	f	551	ASN
1	f	598	GLN
1	f	627	HIS
1	f	645	GLN
1	f	717	ASN
1	g	229	HIS
1	g	263	GLN
1	g	290	HIS
1	g	302	ASN
1	g	341	GLN
1	g	382	ASN
1	g	407	ASN
1	g	421	HIS
1	g	426	HIS
1	g	428	GLN
1	g	551	ASN
1	g	598	GLN
1	g	627	HIS
1	g	645	GLN
1	h	229	HIS
1	h	263	GLN
1	h	290	HIS
1	h	302	ASN
1	h	341	GLN
1	h	382	ASN
1	h	407	ASN
1	h	421	HIS
1	h	426	HIS
1	h	551	ASN
1	h	598	GLN
1	h	627	HIS
1	h	645	GLN

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Mol	Chain	Res	Type
1	h	717	ASN
1	i	229	HIS
1	i	263	GLN
1	i	290	HIS
1	i	302	ASN
1	i	341	GLN
1	i	382	ASN
1	i	407	ASN
1	i	421	HIS
1	i	426	HIS
1	i	551	ASN
1	i	598	GLN
1	i	627	HIS
1	i	645	GLN
1	j	229	HIS
1	j	263	GLN
1	j	290	HIS
1	j	302	ASN
1	j	341	GLN
1	j	382	ASN
1	j	407	ASN
1	j	421	HIS
1	j	426	HIS
1	j	428	GLN
1	j	551	ASN
1	j	598	GLN
1	j	627	HIS
1	j	645	GLN
1	k	229	HIS
1	k	263	GLN
1	k	290	HIS
1	k	302	ASN
1	k	341	GLN
1	k	382	ASN
1	k	407	ASN
1	k	421	HIS
1	k	426	HIS
1	k	428	GLN
1	k	551	ASN
1	k	598	GLN
1	k	627	HIS
1	k	645	GLN

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Mol	Chain	Res	Type
1	k	717	ASN
1	l	229	HIS
1	l	263	GLN
1	l	290	HIS
1	l	302	ASN
1	l	341	GLN
1	l	382	ASN
1	l	407	ASN
1	l	421	HIS
1	l	426	HIS
1	l	428	GLN
1	l	551	ASN
1	l	598	GLN
1	l	627	HIS
1	l	645	GLN
1	m	229	HIS
1	m	263	GLN
1	m	290	HIS
1	m	302	ASN
1	m	341	GLN
1	m	382	ASN
1	m	407	ASN
1	m	421	HIS
1	m	426	HIS
1	m	551	ASN
1	m	598	GLN
1	m	627	HIS
1	m	645	GLN
1	n	229	HIS
1	n	263	GLN
1	n	290	HIS
1	n	302	ASN
1	n	341	GLN
1	n	382	ASN
1	n	407	ASN
1	n	421	HIS
1	n	426	HIS
1	n	428	GLN
1	n	551	ASN
1	n	598	GLN
1	n	627	HIS
1	n	645	GLN

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Mol	Chain	Res	Type
1	n	717	ASN
1	o	229	HIS
1	o	263	GLN
1	o	290	HIS
1	o	302	ASN
1	o	341	GLN
1	o	382	ASN
1	o	407	ASN
1	o	421	HIS
1	o	426	HIS
1	o	551	ASN
1	o	598	GLN
1	o	627	HIS
1	o	645	GLN
1	o	717	ASN
1	p	229	HIS
1	p	263	GLN
1	p	290	HIS
1	p	302	ASN
1	p	341	GLN
1	p	382	ASN
1	p	407	ASN
1	p	421	HIS
1	p	426	HIS
1	p	428	GLN
1	p	551	ASN
1	p	598	GLN
1	p	627	HIS
1	p	645	GLN
1	q	229	HIS
1	q	263	GLN
1	q	290	HIS
1	q	302	ASN
1	q	341	GLN
1	q	382	ASN
1	q	407	ASN
1	q	421	HIS
1	q	426	HIS
1	q	428	GLN
1	q	551	ASN
1	q	598	GLN
1	q	627	HIS

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Mol	Chain	Res	Type
1	q	645	GLN
1	r	229	HIS
1	r	263	GLN
1	r	290	HIS
1	r	302	ASN
1	r	341	GLN
1	r	382	ASN
1	r	407	ASN
1	r	421	HIS
1	r	426	HIS
1	r	551	ASN
1	r	598	GLN
1	r	627	HIS
1	r	645	GLN
1	s	229	HIS
1	s	263	GLN
1	s	290	HIS
1	s	302	ASN
1	s	341	GLN
1	s	382	ASN
1	s	407	ASN
1	s	421	HIS
1	s	426	HIS
1	s	551	ASN
1	s	598	GLN
1	s	627	HIS
1	s	645	GLN
1	t	229	HIS
1	t	263	GLN
1	t	290	HIS
1	t	302	ASN
1	t	341	GLN
1	t	382	ASN
1	t	407	ASN
1	t	421	HIS
1	t	426	HIS
1	t	551	ASN
1	t	598	GLN
1	t	627	HIS
1	t	645	GLN
1	t	717	ASN
1	u	229	HIS

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Mol	Chain	Res	Type
1	u	263	GLN
1	u	290	HIS
1	u	302	ASN
1	u	341	GLN
1	u	382	ASN
1	u	407	ASN
1	u	421	HIS
1	u	426	HIS
1	u	485	GLN
1	u	551	ASN
1	u	598	GLN
1	u	627	HIS
1	u	645	GLN
1	v	263	GLN
1	v	290	HIS
1	v	302	ASN
1	v	341	GLN
1	v	382	ASN
1	v	407	ASN
1	v	421	HIS
1	v	426	HIS
1	v	551	ASN
1	v	598	GLN
1	v	627	HIS
1	v	645	GLN
1	v	717	ASN
1	w	229	HIS
1	w	263	GLN
1	w	290	HIS
1	w	302	ASN
1	w	341	GLN
1	w	382	ASN
1	w	407	ASN
1	w	421	HIS
1	w	426	HIS
1	w	551	ASN
1	w	598	GLN
1	w	627	HIS
1	w	645	GLN
1	x	229	HIS
1	x	263	GLN
1	x	290	HIS

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Mol	Chain	Res	Type
1	x	302	ASN
1	x	341	GLN
1	x	382	ASN
1	x	407	ASN
1	x	421	HIS
1	x	426	HIS
1	x	428	GLN
1	x	551	ASN
1	x	598	GLN
1	x	627	HIS
1	x	645	GLN
1	y	229	HIS
1	y	263	GLN
1	y	290	HIS
1	y	302	ASN
1	y	341	GLN
1	y	382	ASN
1	y	407	ASN
1	y	421	HIS
1	y	426	HIS
1	y	551	ASN
1	y	598	GLN
1	y	627	HIS
1	y	645	GLN
1	y	717	ASN
1	z	229	HIS
1	z	263	GLN
1	z	290	HIS
1	z	302	ASN
1	z	341	GLN
1	z	382	ASN
1	z	407	ASN
1	z	421	HIS
1	z	426	HIS
1	z	551	ASN
1	z	598	GLN
1	z	627	HIS
1	z	645	GLN
1	1	229	HIS
1	1	263	GLN
1	1	290	HIS
1	1	302	ASN

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Mol	Chain	Res	Type
1	1	341	GLN
1	1	382	ASN
1	1	407	ASN
1	1	421	HIS
1	1	426	HIS
1	1	551	ASN
1	1	598	GLN
1	1	627	HIS
1	1	645	GLN
1	1	717	ASN
1	2	229	HIS
1	2	263	GLN
1	2	290	HIS
1	2	302	ASN
1	2	341	GLN
1	2	382	ASN
1	2	407	ASN
1	2	421	HIS
1	2	426	HIS
1	2	428	GLN
1	2	551	ASN
1	2	598	GLN
1	2	627	HIS
1	2	645	GLN
1	3	229	HIS
1	3	263	GLN
1	3	290	HIS
1	3	302	ASN
1	3	341	GLN
1	3	382	ASN
1	3	407	ASN
1	3	421	HIS
1	3	426	HIS
1	3	551	ASN
1	3	598	GLN
1	3	627	HIS
1	3	645	GLN
1	4	229	HIS
1	4	263	GLN
1	4	290	HIS
1	4	302	ASN
1	4	341	GLN

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Mol	Chain	Res	Type
1	4	382	ASN
1	4	407	ASN
1	4	421	HIS
1	4	426	HIS
1	4	428	GLN
1	4	551	ASN
1	4	598	GLN
1	4	627	HIS
1	4	645	GLN
1	4	717	ASN
1	5	229	HIS
1	5	263	GLN
1	5	290	HIS
1	5	302	ASN
1	5	341	GLN
1	5	382	ASN
1	5	407	ASN
1	5	421	HIS
1	5	426	HIS
1	5	551	ASN
1	5	598	GLN
1	5	627	HIS
1	5	645	GLN
1	6	229	HIS
1	6	263	GLN
1	6	290	HIS
1	6	302	ASN
1	6	341	GLN
1	6	382	ASN
1	6	407	ASN
1	6	421	HIS
1	6	426	HIS
1	6	551	ASN
1	6	598	GLN
1	6	627	HIS
1	6	645	GLN
1	6	717	ASN
1	7	229	HIS
1	7	263	GLN
1	7	290	HIS
1	7	302	ASN
1	7	341	GLN

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Mol	Chain	Res	Type
1	7	382	ASN
1	7	407	ASN
1	7	421	HIS
1	7	426	HIS
1	7	428	GLN
1	7	551	ASN
1	7	598	GLN
1	7	627	HIS
1	7	645	GLN
1	7	717	ASN
1	8	229	HIS
1	8	263	GLN
1	8	290	HIS
1	8	302	ASN
1	8	341	GLN
1	8	382	ASN
1	8	407	ASN
1	8	421	HIS
1	8	426	HIS
1	8	551	ASN
1	8	598	GLN
1	8	627	HIS
1	8	645	GLN
1	8	717	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

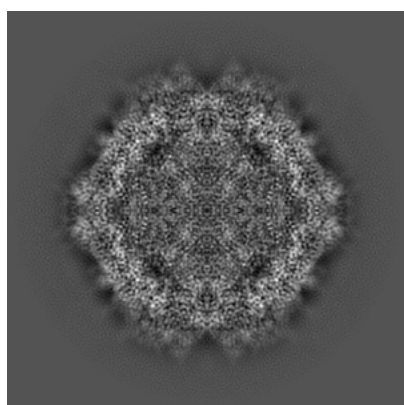
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-20610. These allow visual inspection of the internal detail of the map and identification of artifacts.

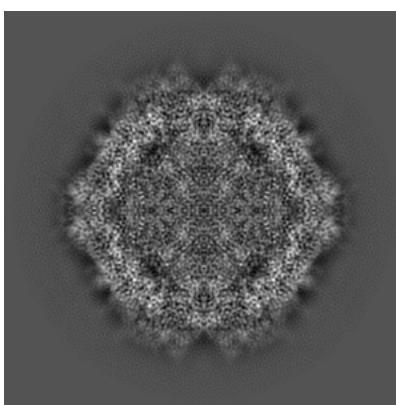
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

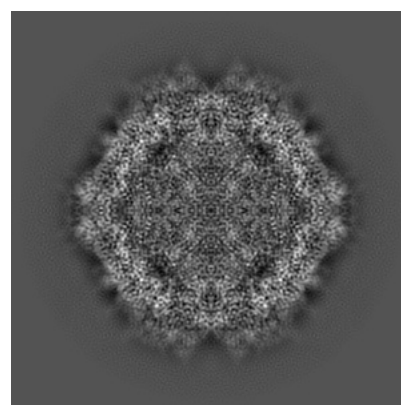
6.1.1 Primary map



X



Y

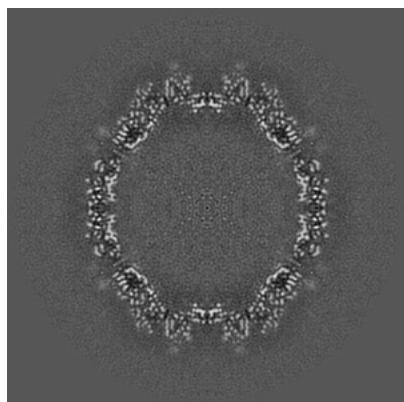


Z

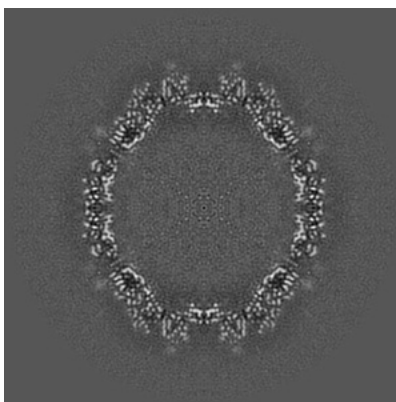
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

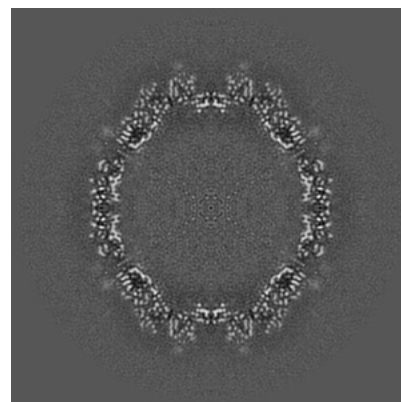
6.2.1 Primary map



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Y Index: 205

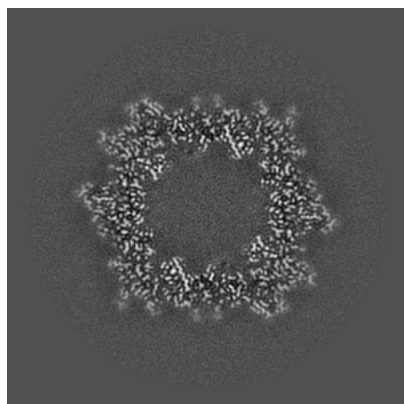


Z Index: 205

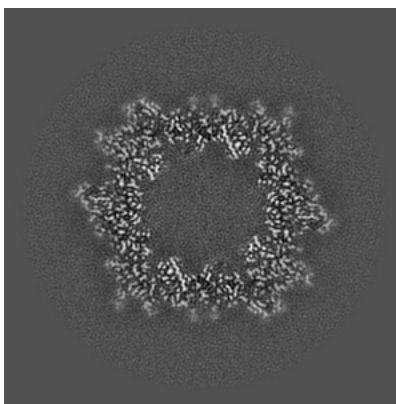
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

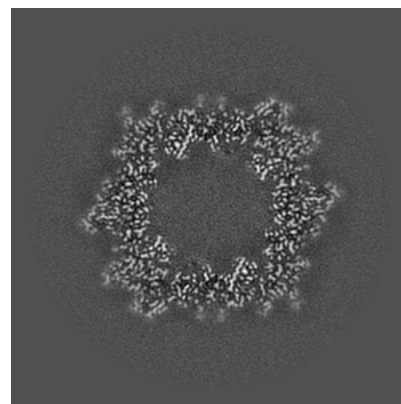
6.3.1 Primary map



X Index: 277



Y Index: 277

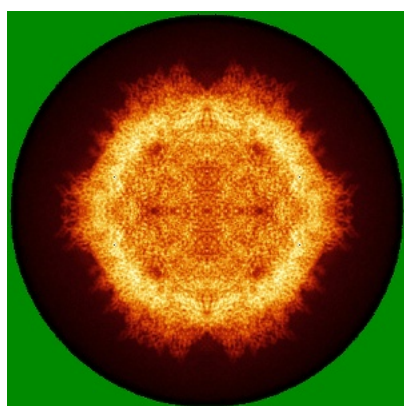


Z Index: 133

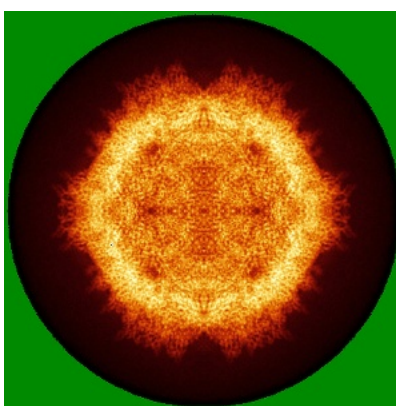
The images above show the largest variance slices of the map in three orthogonal directions.

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

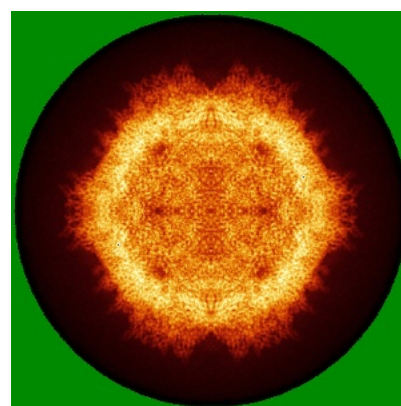
6.4.1 Primary map



X



Y

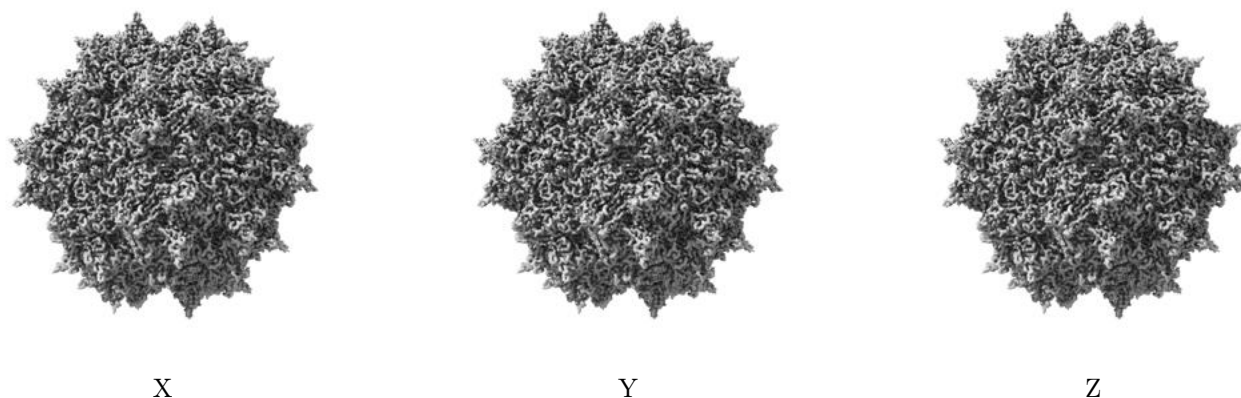


Z

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



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.

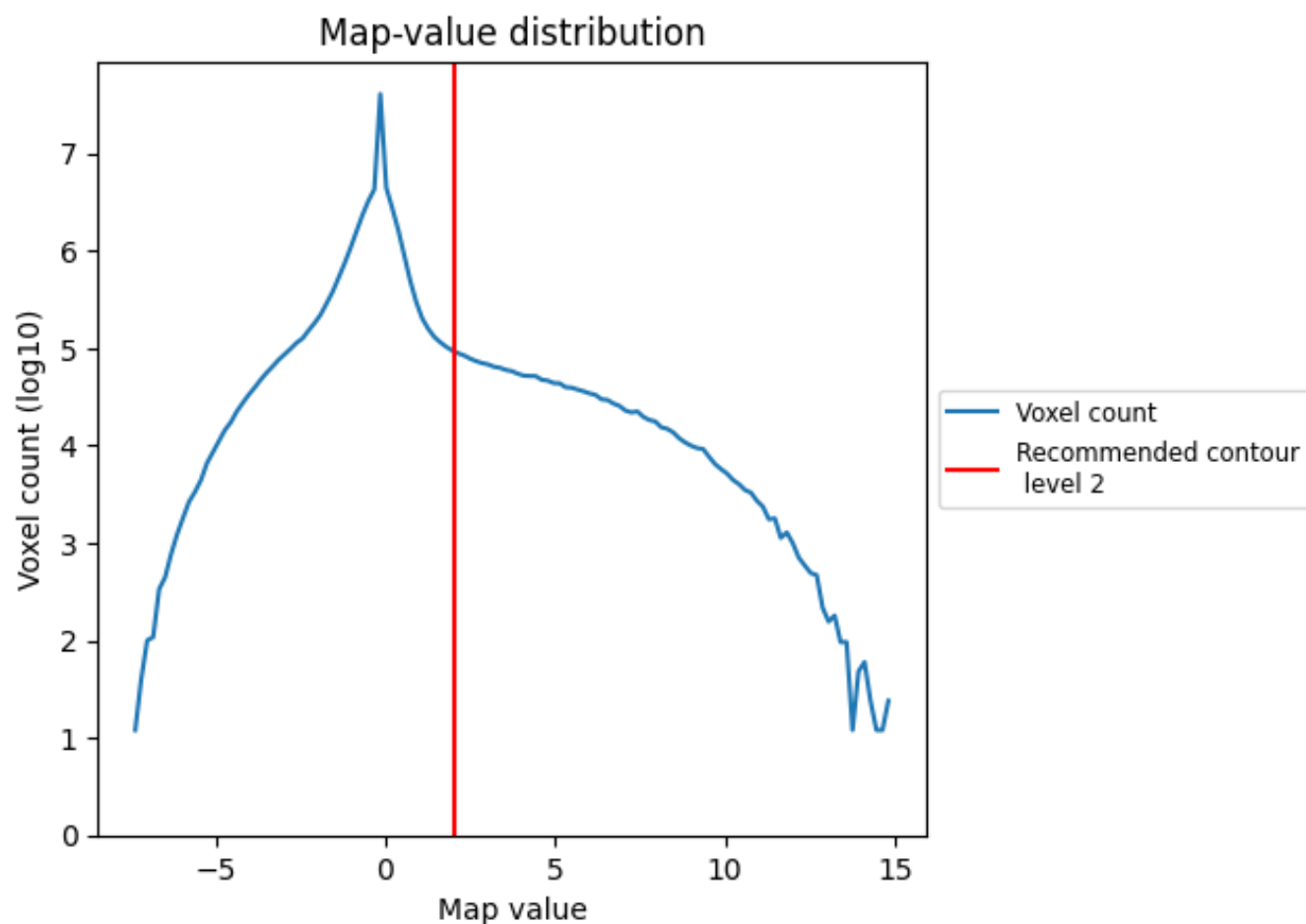
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

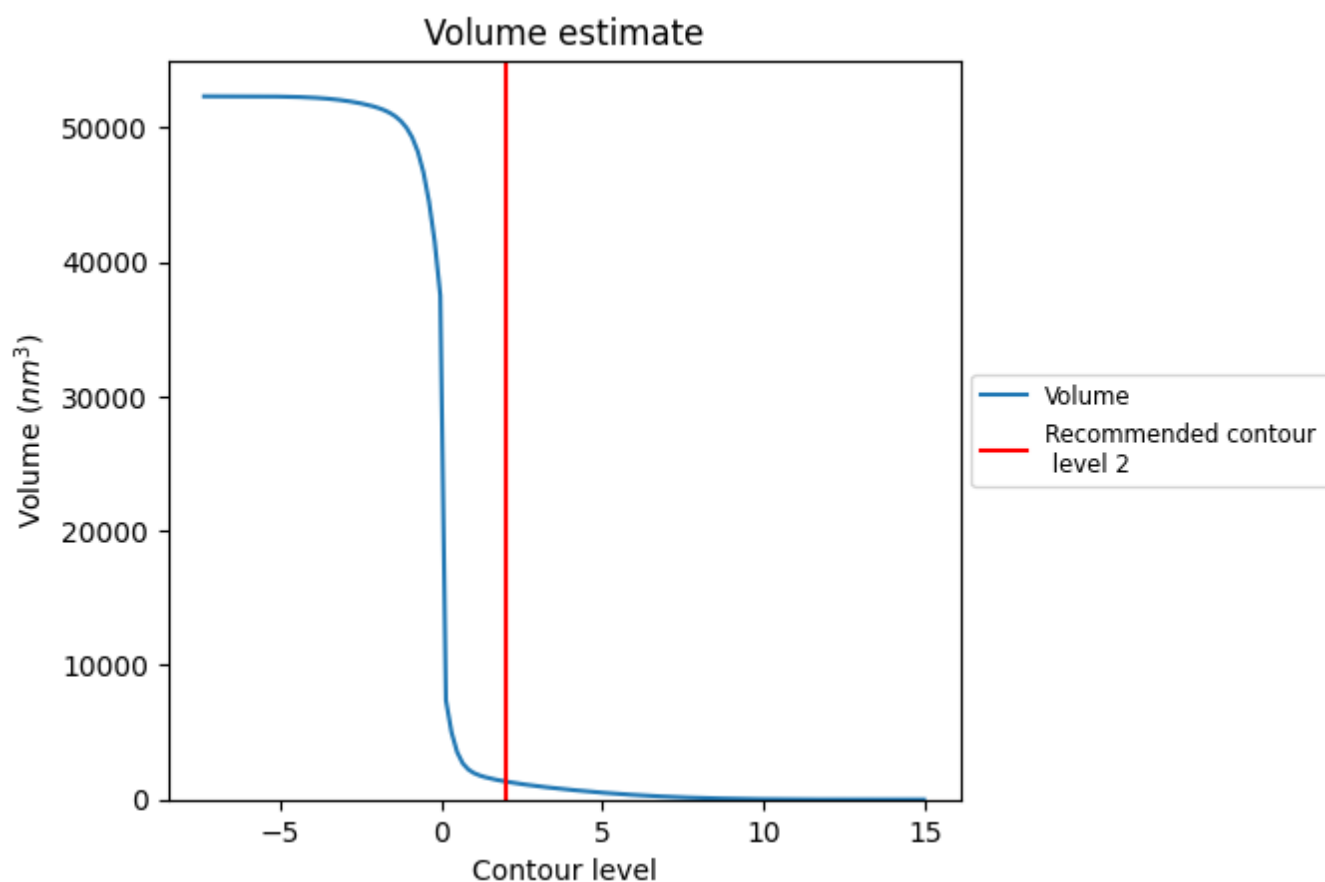
This section contains the results of statistical analysis of the map.

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.

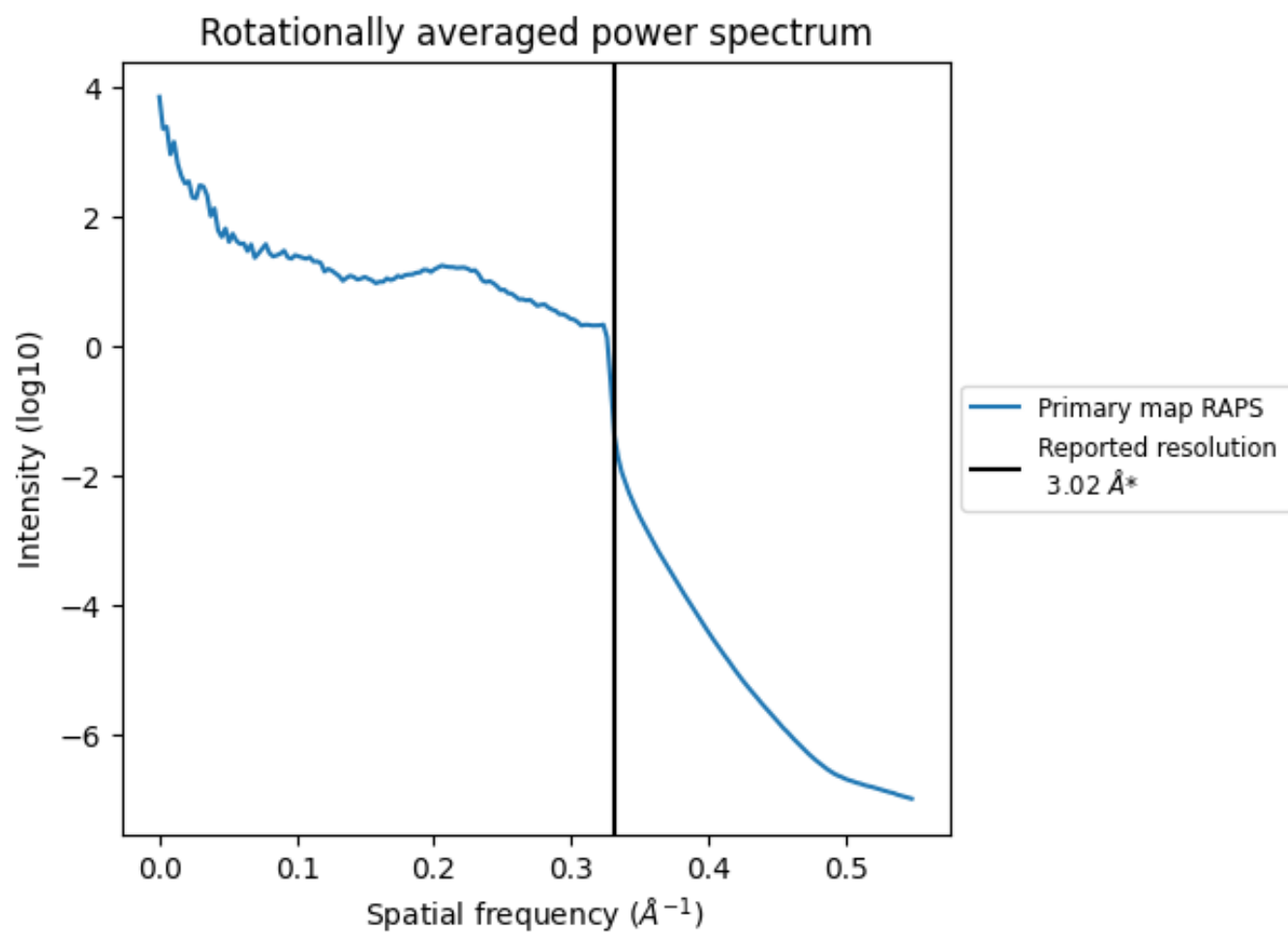
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1342 nm³; this corresponds to an approximate mass of 1212 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 0.331 Å⁻¹

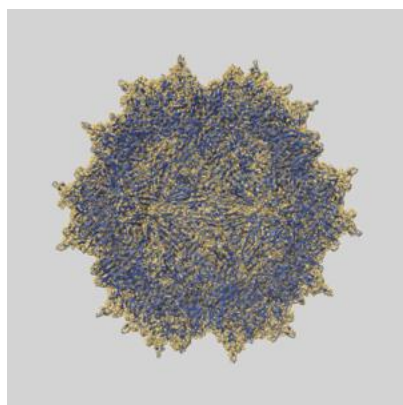
8 Fourier-Shell correlation

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

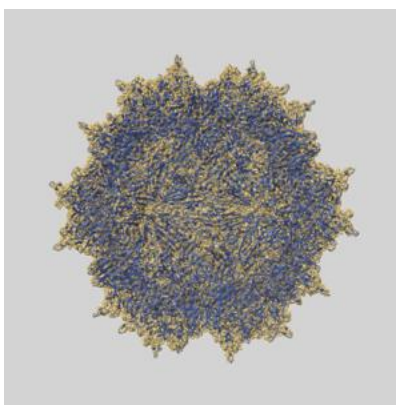
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-20610 and PDB model 6U0V. Per-residue inclusion information can be found in section [3](#) on page [10](#).

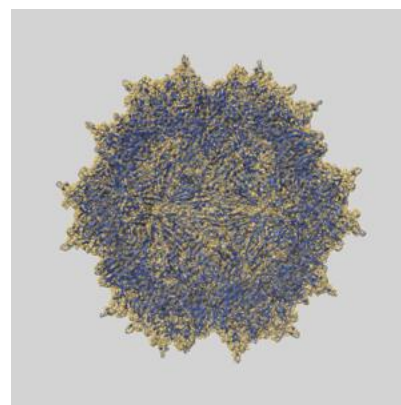
9.1 Map-model overlay [i](#)



X



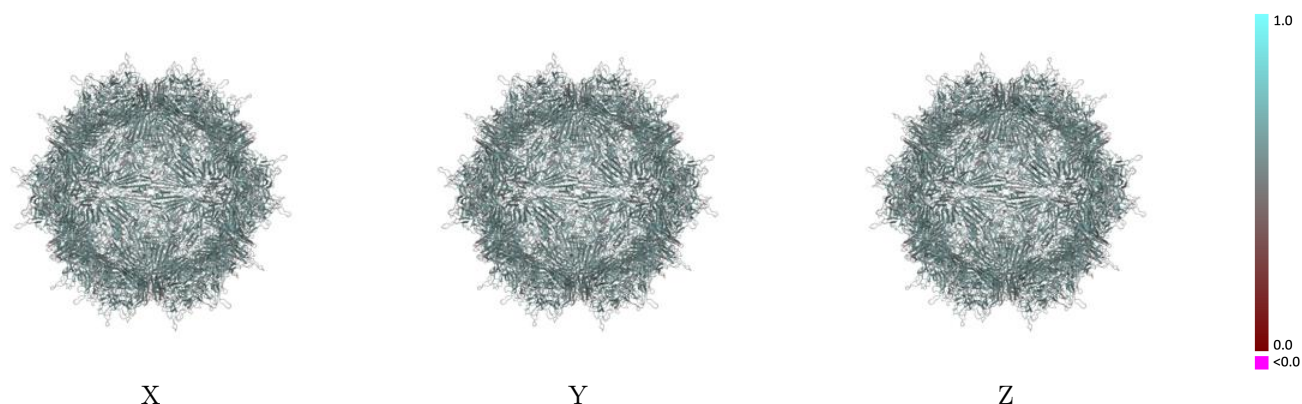
Y



Z

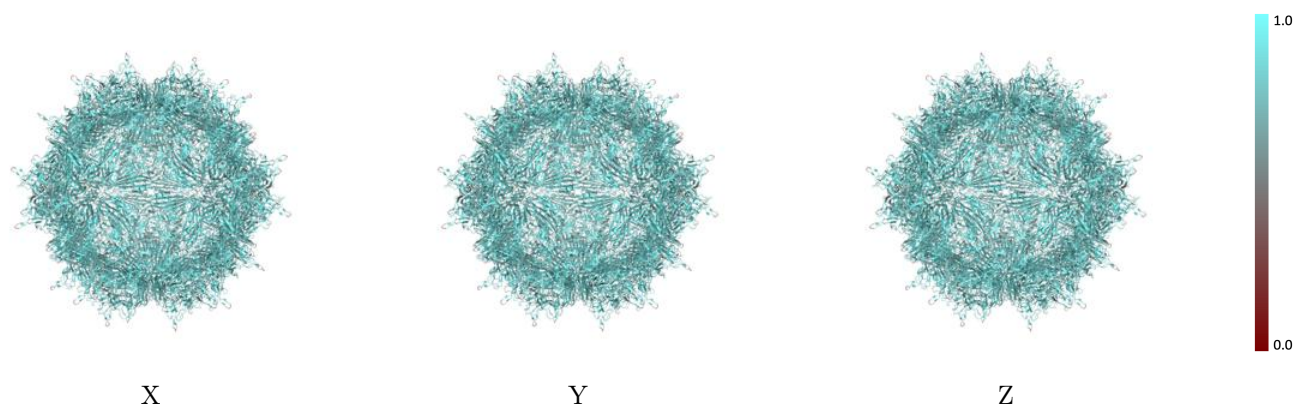
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



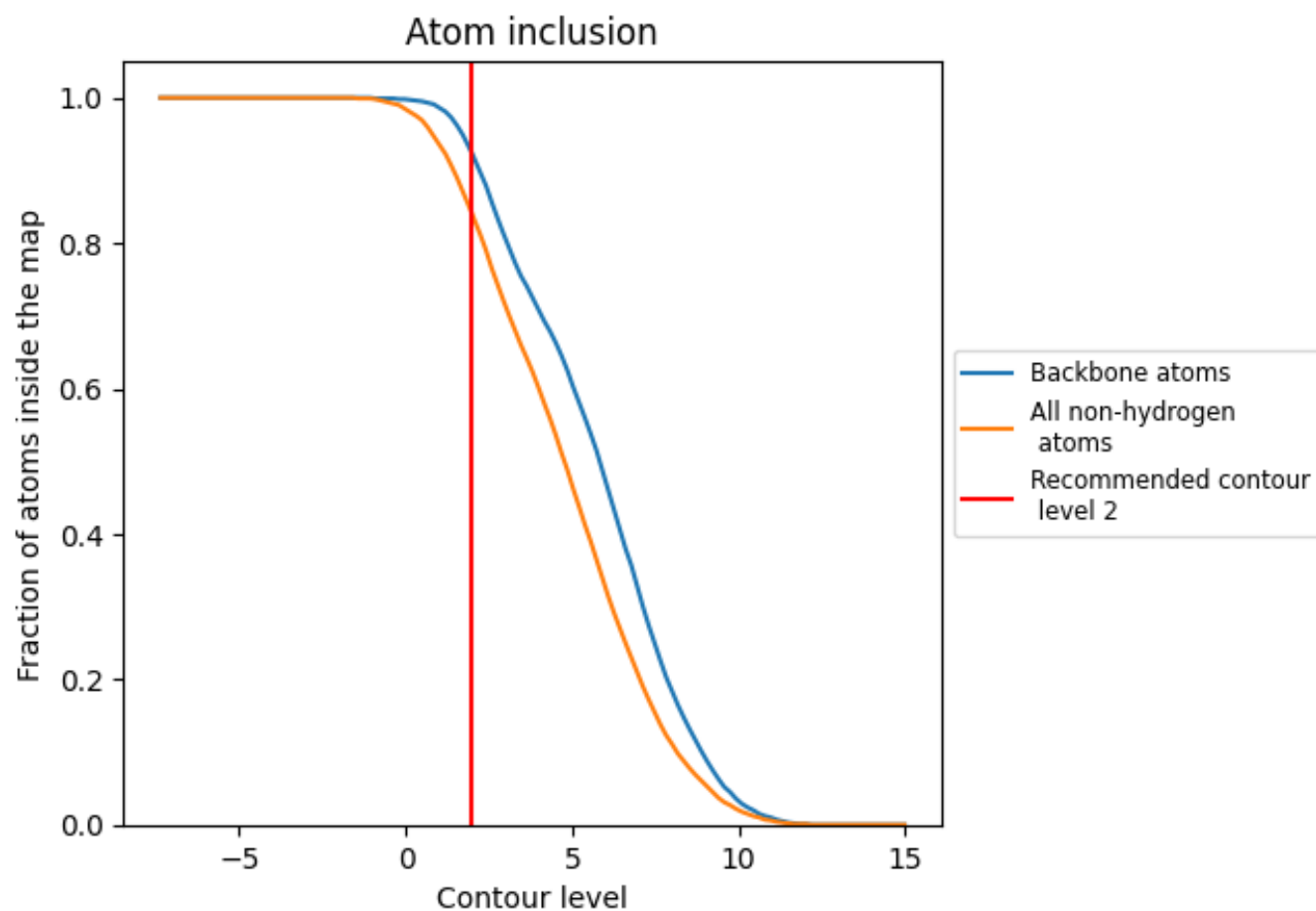
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 84% 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	0.8400	0.5690
1	0.8380	0.5690
2	0.8400	0.5690
3	0.8380	0.5690
4	0.8410	0.5680
5	0.8420	0.5690
6	0.8390	0.5680
7	0.8390	0.5690
8	0.8400	0.5680
A	0.8380	0.5680
B	0.8410	0.5680
C	0.8390	0.5690
D	0.8410	0.5690
E	0.8400	0.5700
F	0.8410	0.5690
G	0.8420	0.5680
H	0.8390	0.5680
I	0.8410	0.5680
J	0.8380	0.5690
K	0.8400	0.5680
L	0.8400	0.5680
M	0.8380	0.5690
N	0.8410	0.5700
O	0.8400	0.5690
P	0.8390	0.5690
Q	0.8400	0.5690
R	0.8380	0.5700
S	0.8400	0.5680
T	0.8400	0.5690
U	0.8410	0.5700
V	0.8400	0.5680
W	0.8390	0.5680
X	0.8410	0.5690
Y	0.8390	0.5670
Z	0.8410	0.5690

1.0

0.0

<0.0

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Chain	Atom inclusion	Q-score
a	 0.8400	 0.5680
b	 0.8390	 0.5690
c	 0.8410	 0.5690
d	 0.8390	 0.5680
e	 0.8390	 0.5690
f	 0.8410	 0.5690
g	 0.8390	 0.5680
h	 0.8390	 0.5690
i	 0.8400	 0.5670
j	 0.8390	 0.5680
k	 0.8390	 0.5690
l	 0.8390	 0.5680
m	 0.8390	 0.5680
n	 0.8420	 0.5690
o	 0.8440	 0.5690
p	 0.8380	 0.5700
q	 0.8410	 0.5690
r	 0.8400	 0.5690
s	 0.8410	 0.5690
t	 0.8390	 0.5700
u	 0.8400	 0.5690
v	 0.8390	 0.5680
w	 0.8420	 0.5680
x	 0.8370	 0.5680
y	 0.8400	 0.5670
z	 0.8370	 0.5690