



Full wwPDB EM Validation Report ⓘ

May 25, 2025 – 10:52 PM EDT

PDB ID : 6WFU / pdb_00006wfu
EMDB ID : EMD-21657
Title : BatAAV-10HB - empty particles
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2020-04-04
Resolution : 3.03 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

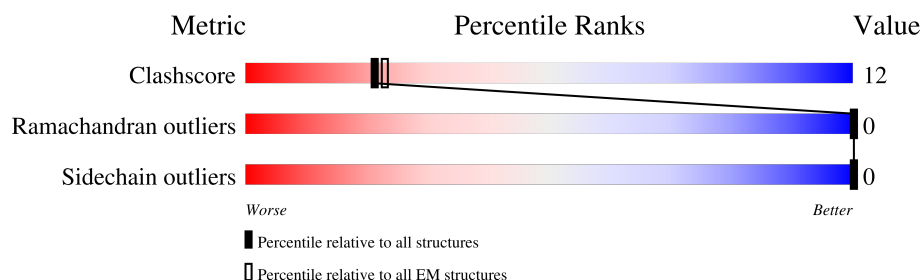
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.03 Å.

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









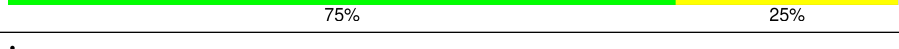
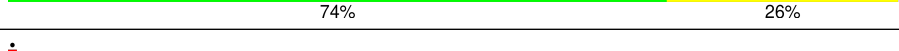
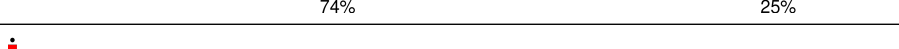
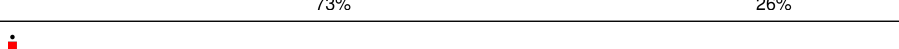
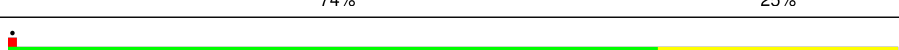

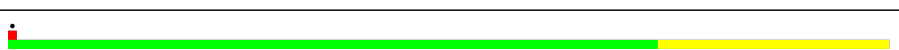

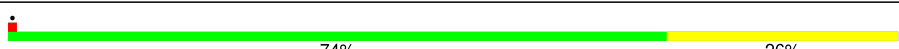





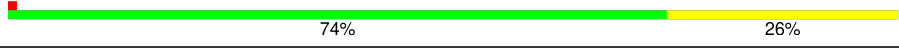
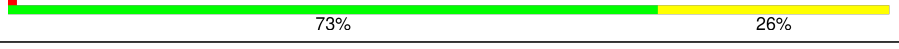



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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	513	
1	2	513	
1	3	513	
1	4	513	
1	5	513	
1	6	513	
1	7	513	
1	8	513	





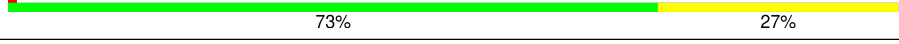


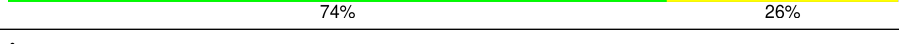
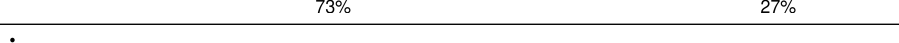
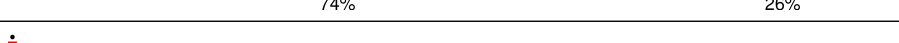
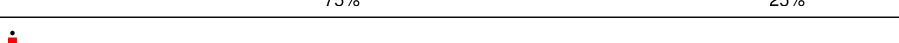











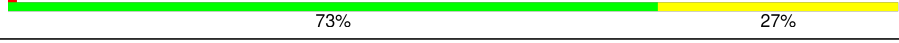


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Mol	Chain	Length	Quality of chain
1	A	513	
1	B	513	
1	C	513	
1	D	513	
1	E	513	
1	F	513	
1	G	513	
1	H	513	
1	I	513	
1	J	513	
1	K	513	
1	L	513	
1	M	513	
1	N	513	
1	O	513	
1	P	513	
1	Q	513	
1	R	513	
1	S	513	
1	T	513	
1	U	513	
1	V	513	
1	W	513	
1	X	513	
1	Y	513	



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Mol	Chain	Length	Quality of chain
1	Z	513	
1	a	513	
1	b	513	
1	c	513	
1	d	513	
1	e	513	
1	f	513	
1	g	513	
1	h	513	
1	i	513	
1	j	513	
1	k	513	
1	l	513	
1	m	513	
1	n	513	
1	o	513	
1	p	513	
1	q	513	
1	r	513	
1	s	513	
1	t	513	
1	u	513	
1	v	513	
1	w	513	
1	x	513	

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Mol	Chain	Length	Quality of chain
1	y	513	 74%26%
1	z	513	 73%27%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 245100 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 VP1 capsid.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	B	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	C	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	D	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	E	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	F	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	G	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	H	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	I	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	J	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	K	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	L	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	M	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	N	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	O	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	P	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	Q	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	S	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	T	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	U	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	V	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	W	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	X	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	Y	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	Z	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	a	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	b	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	c	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	d	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	e	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	f	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	g	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	h	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	i	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	j	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	k	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	l	513	Total 4085	C 2592	N 711	O 765	S 17	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	n	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	o	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	p	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	q	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	r	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	s	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	t	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	u	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	v	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	w	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	x	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	y	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	z	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	1	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	2	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	3	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	4	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	5	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	6	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	7	513	Total 4085	C 2592	N 711	O 765	S 17	1	0

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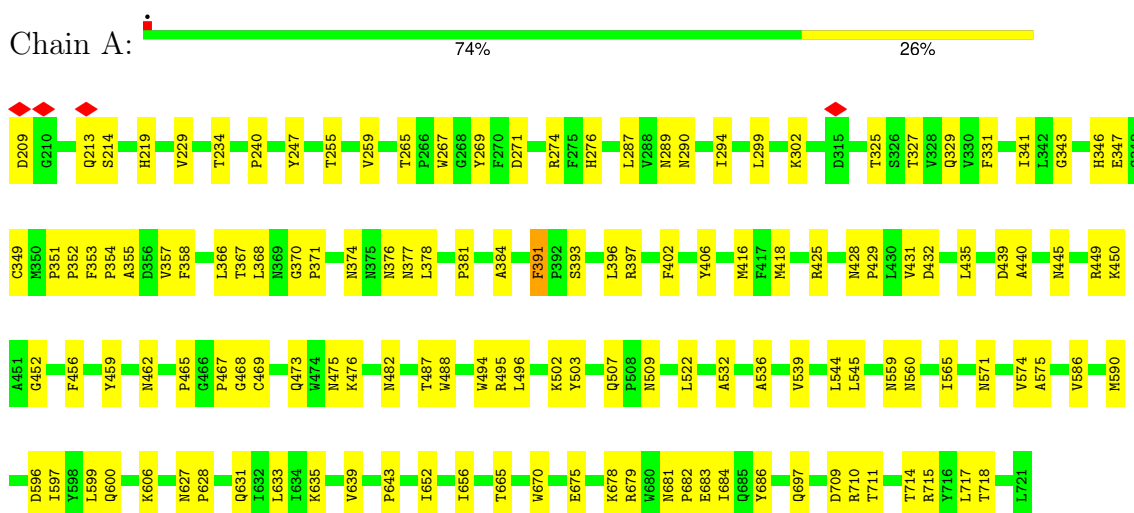
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		

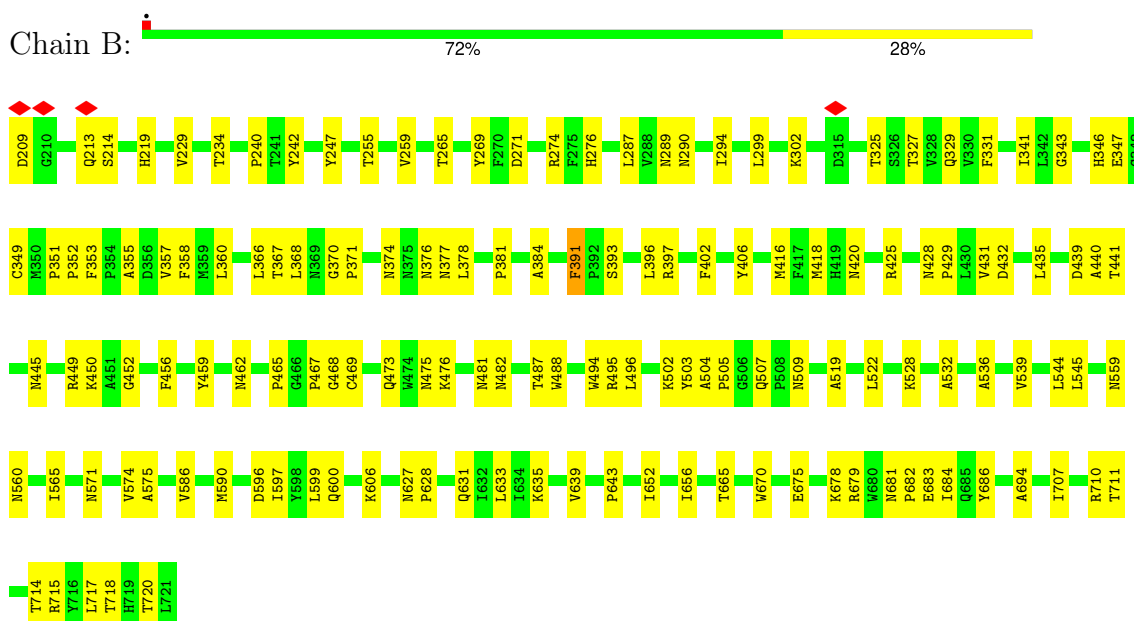
3 Residue-property plots

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.

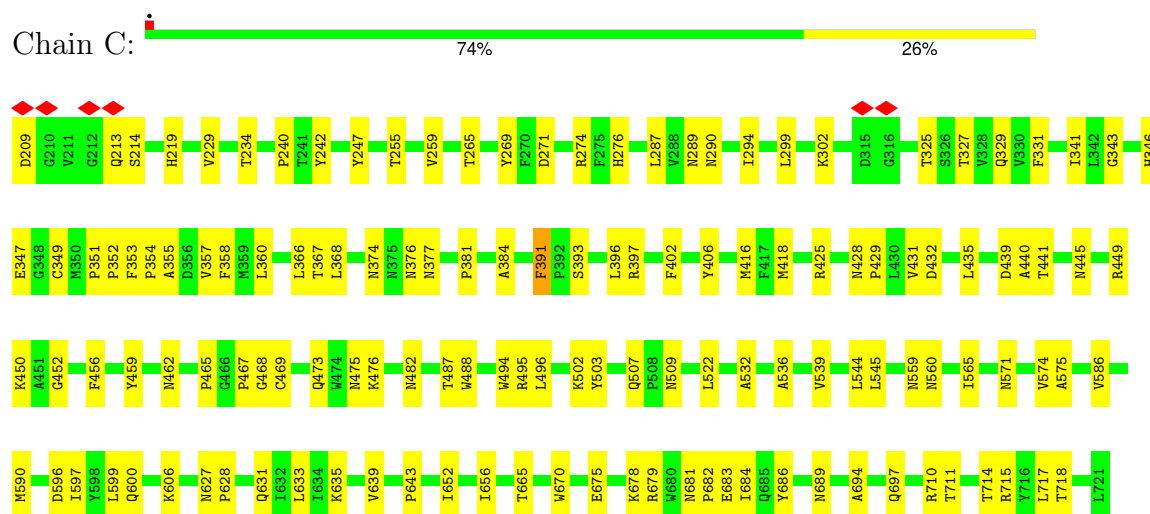
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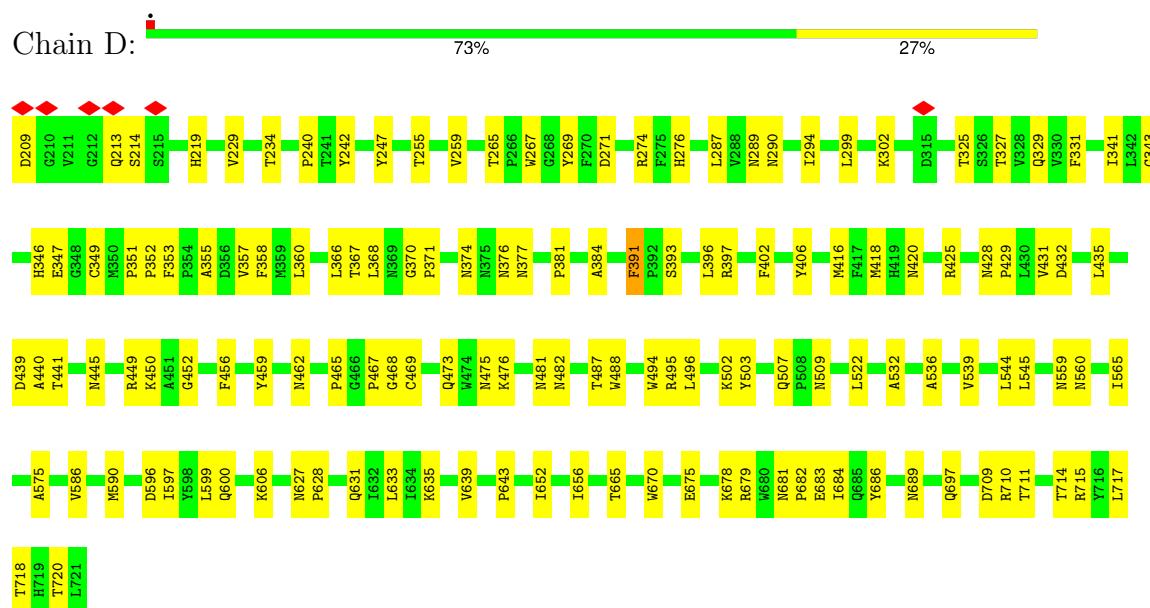
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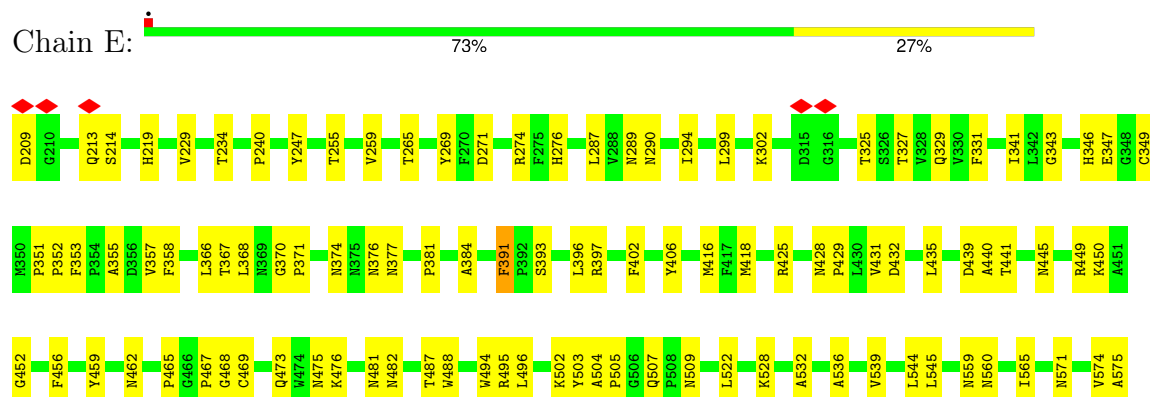
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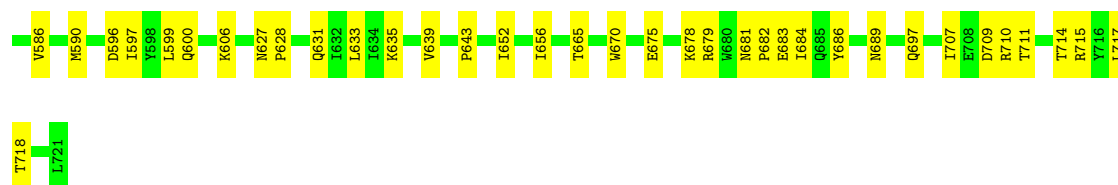


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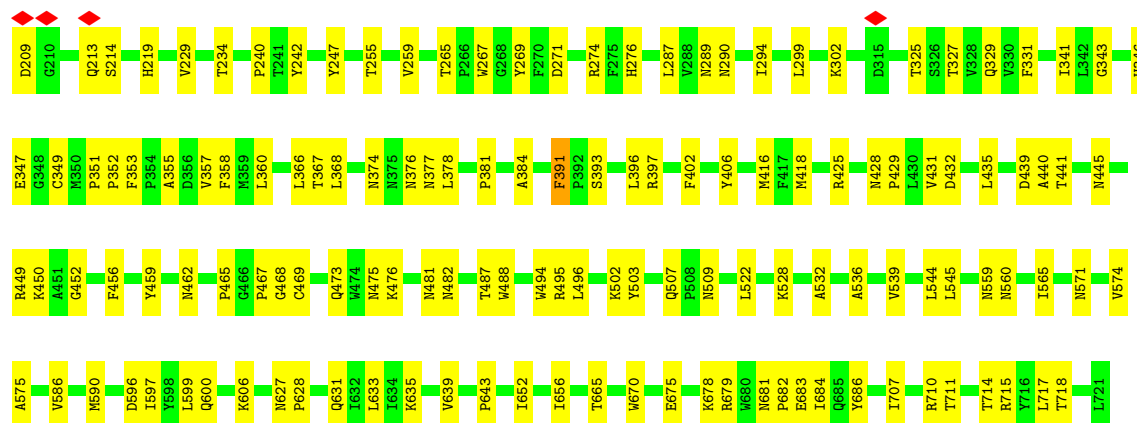


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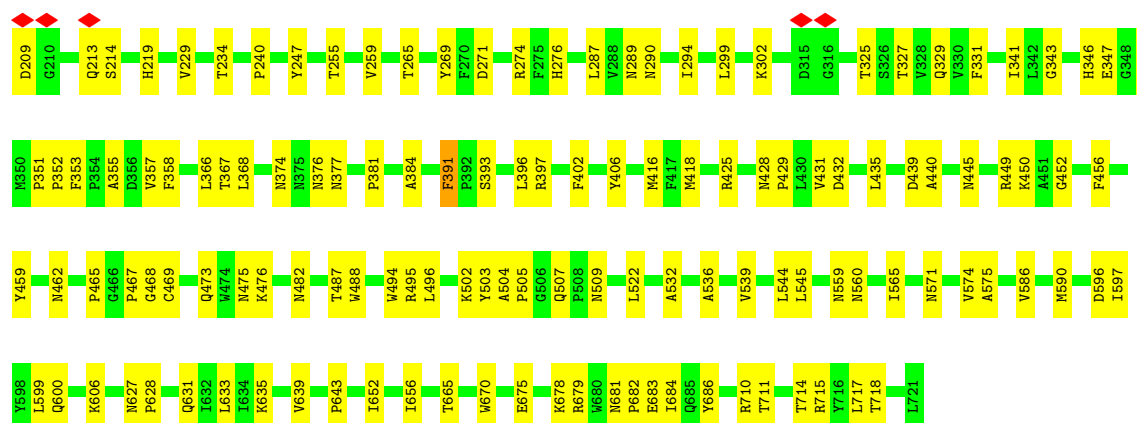
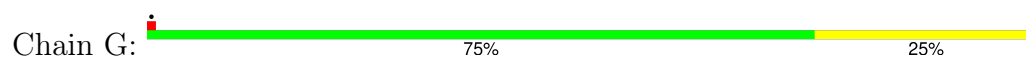




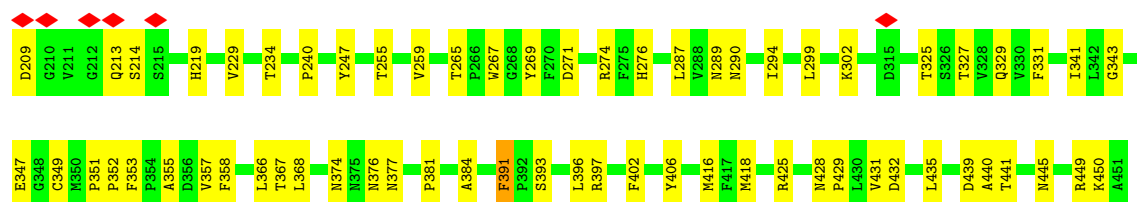
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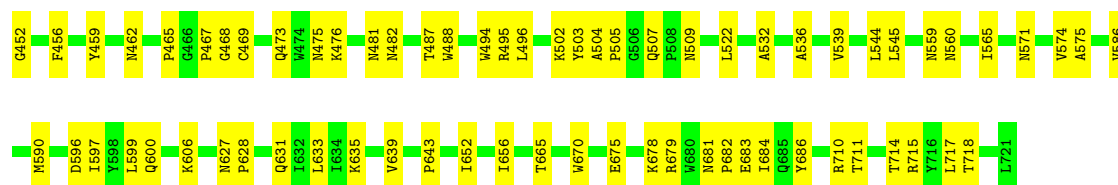


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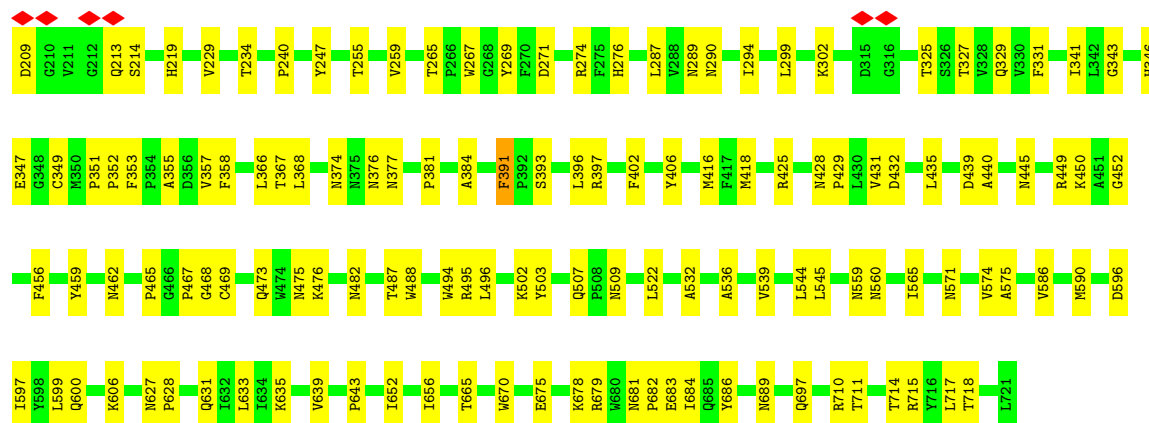


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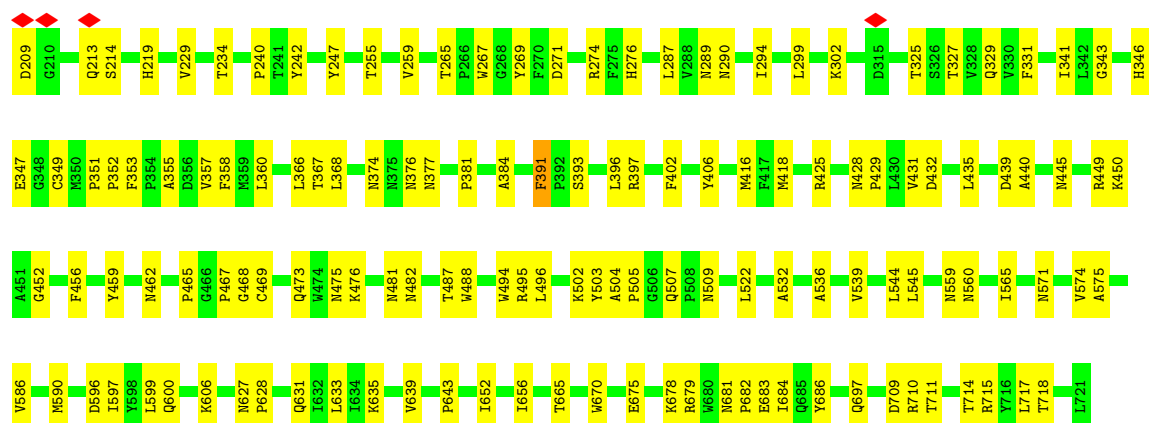




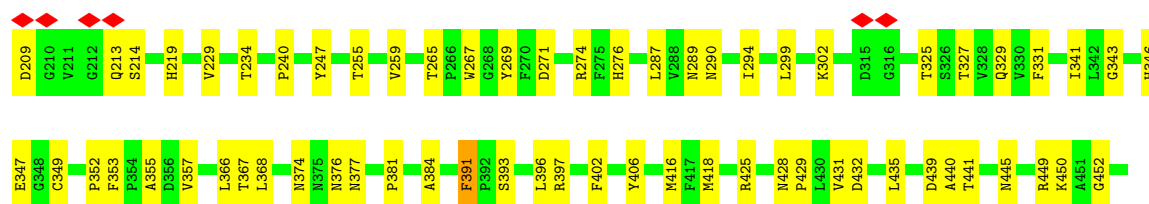
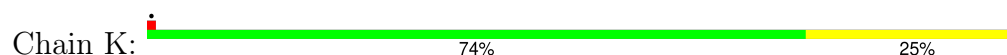
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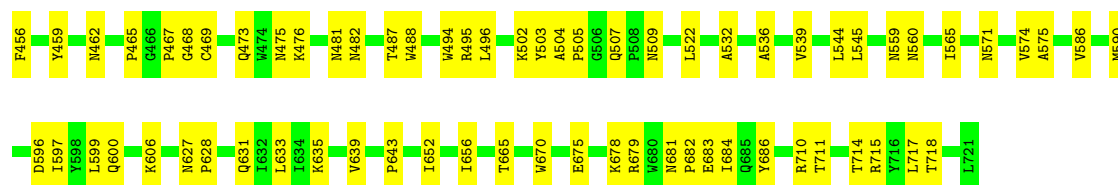


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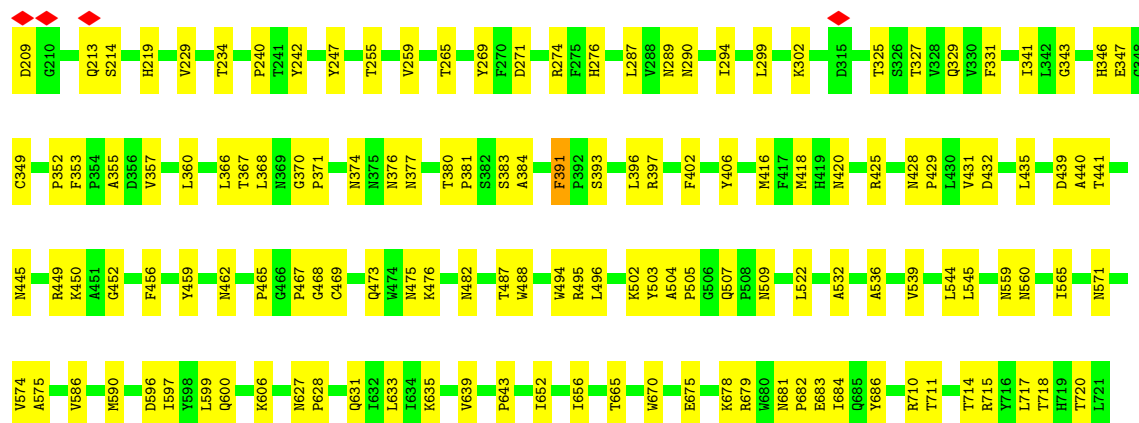


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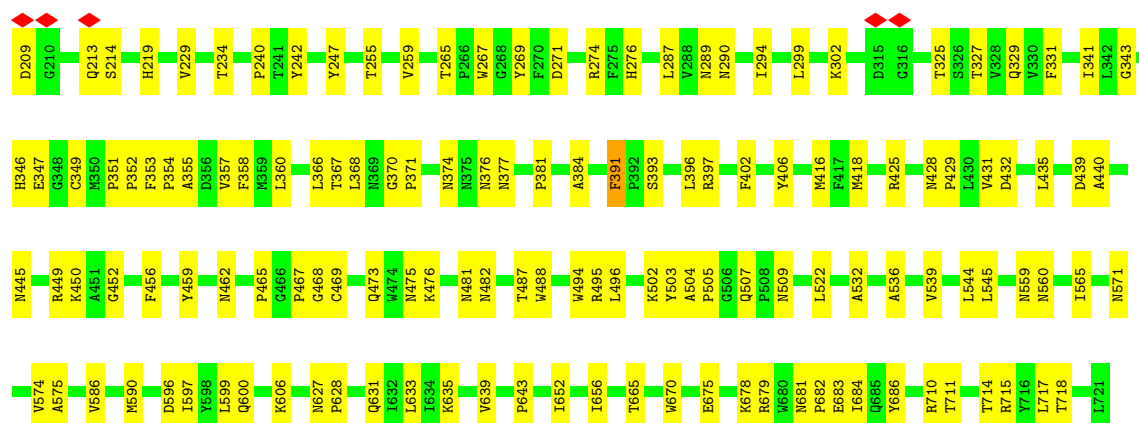




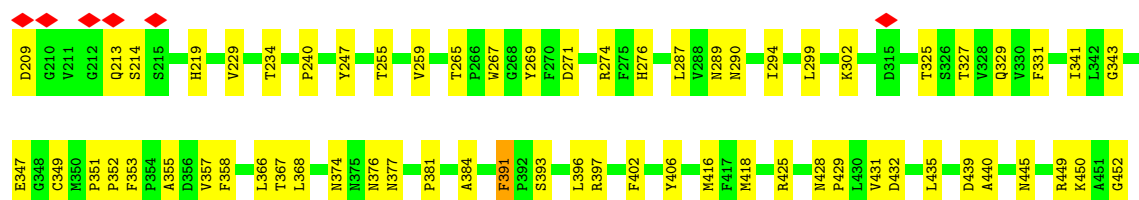
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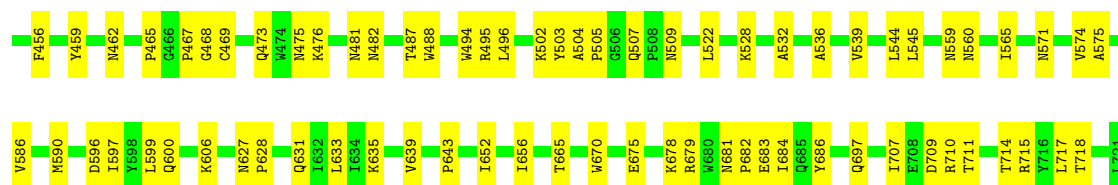


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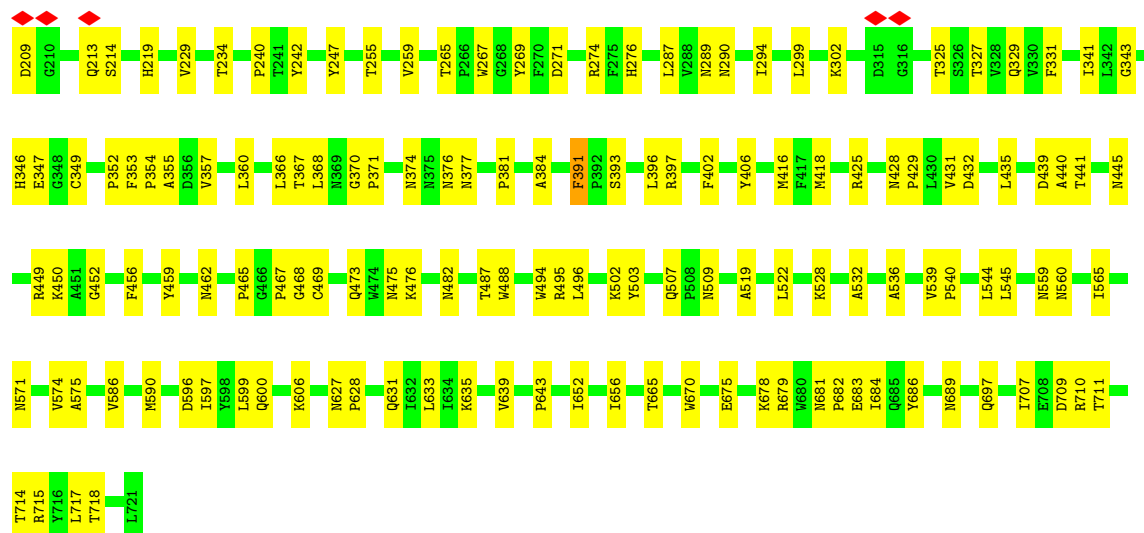


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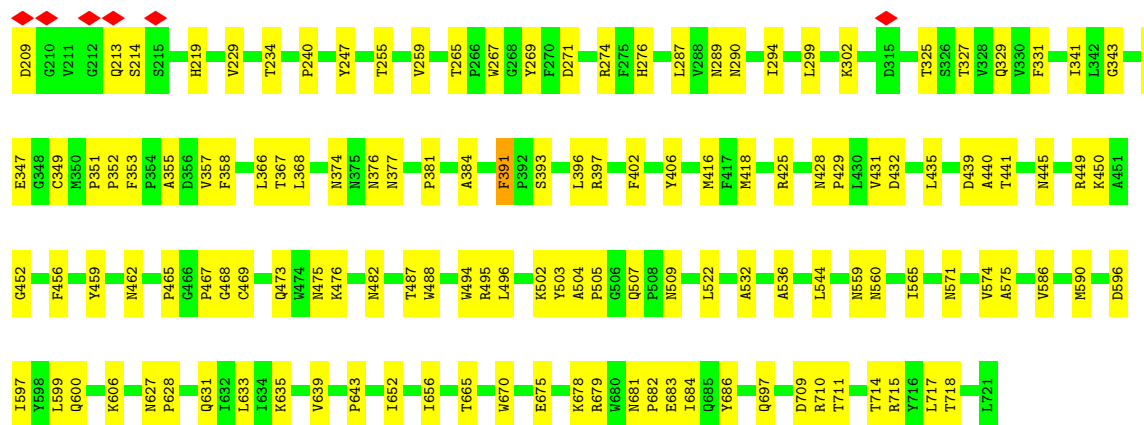




• Molecule 1: VP1 capsid



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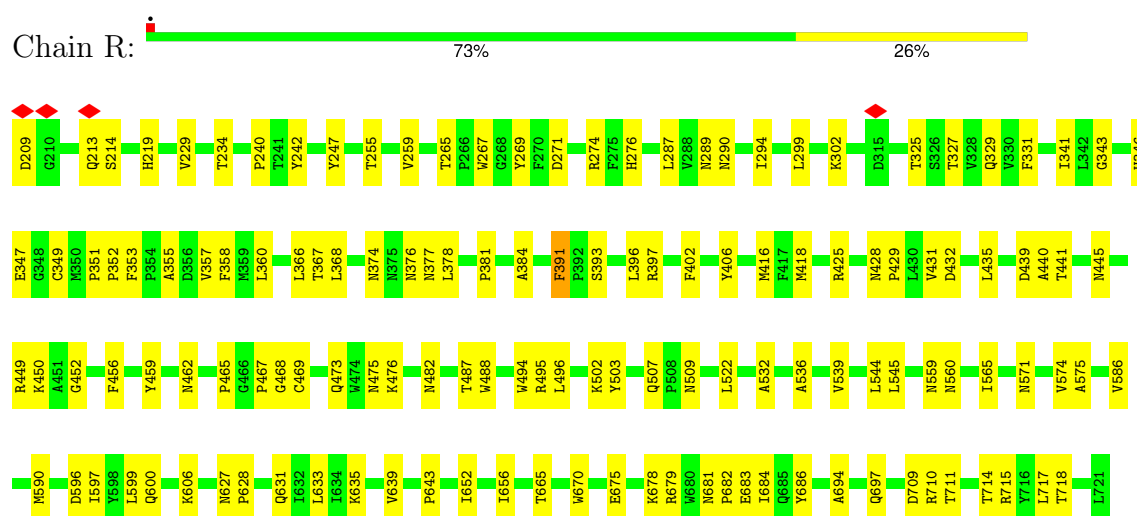


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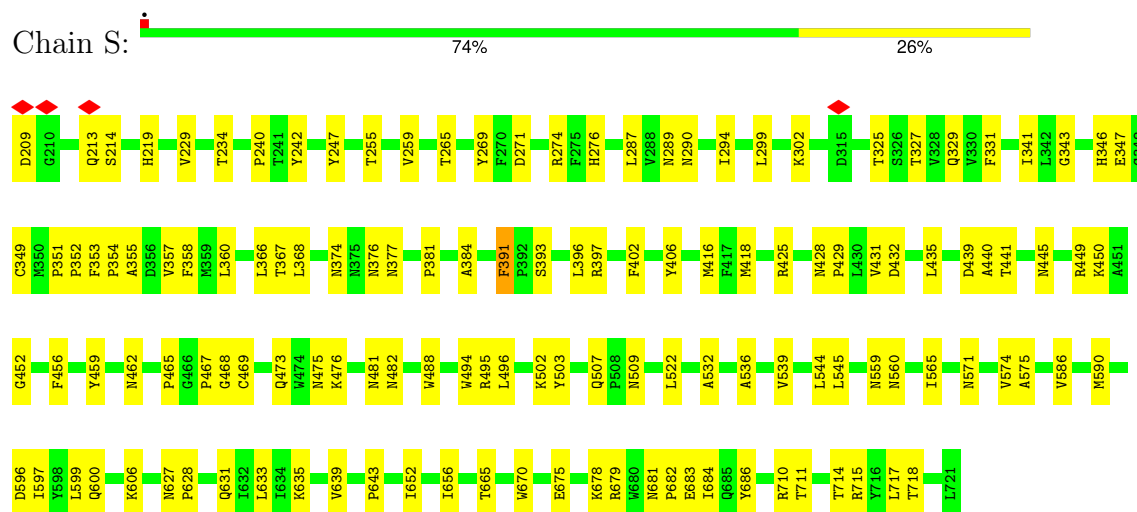




- Molecule 1: VP1 capsid

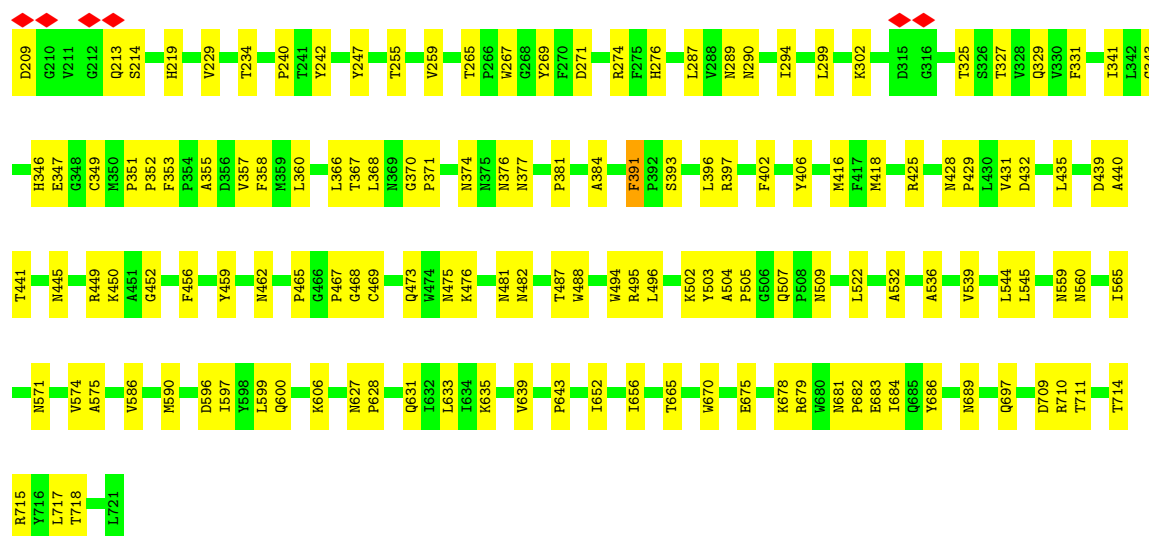


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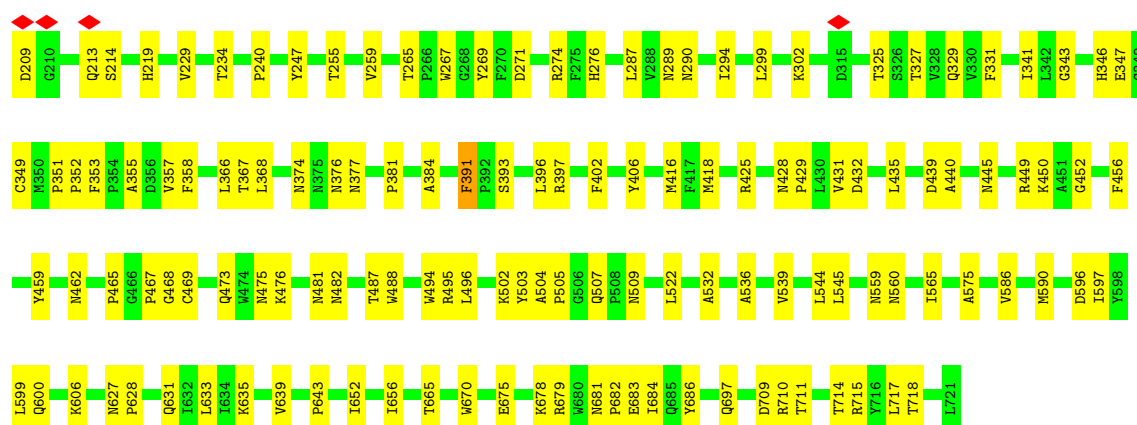


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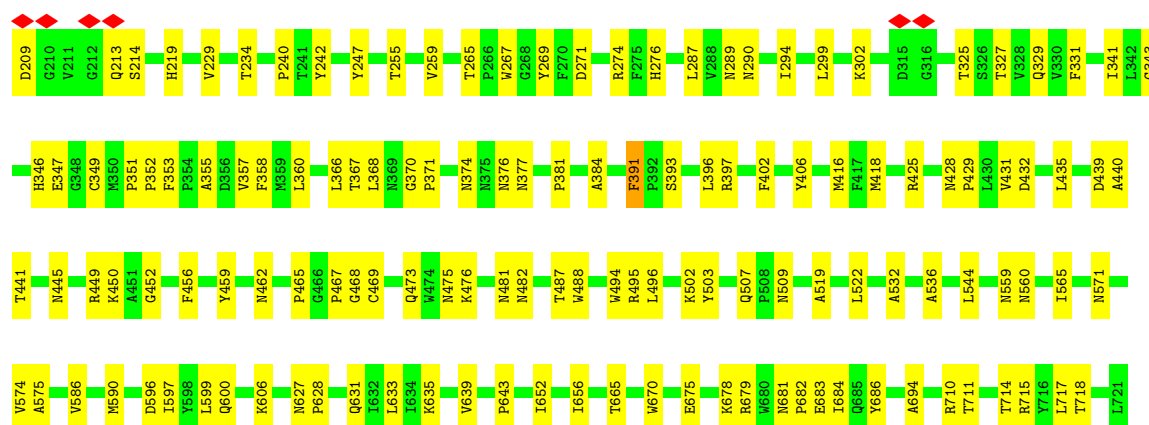
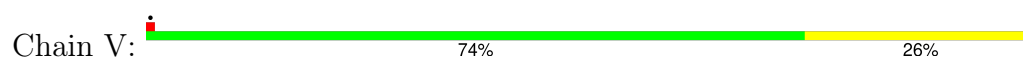




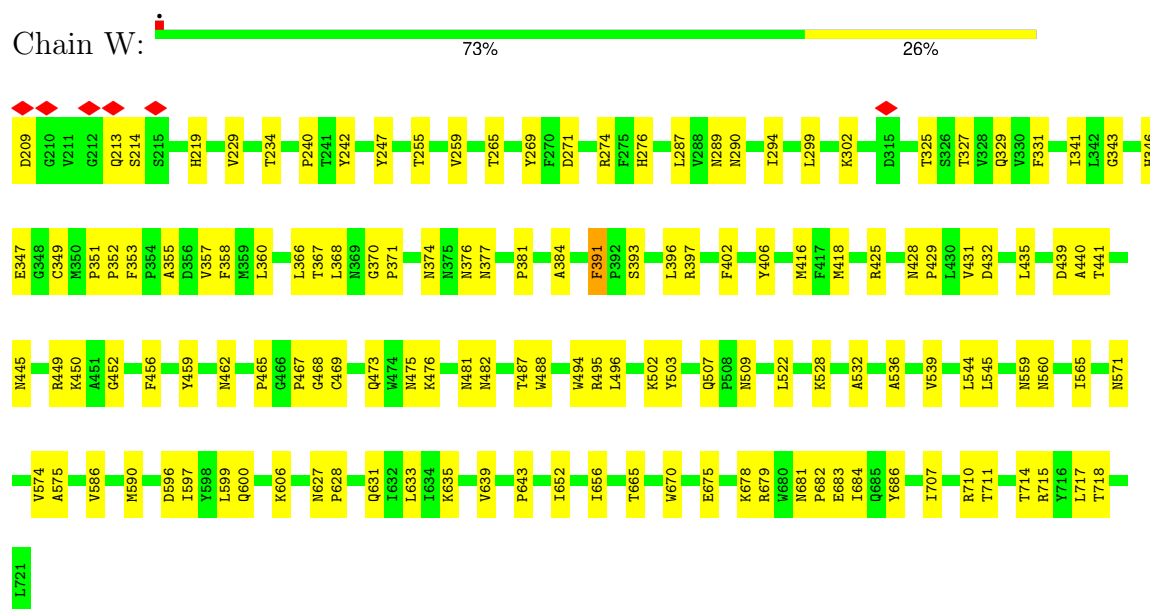
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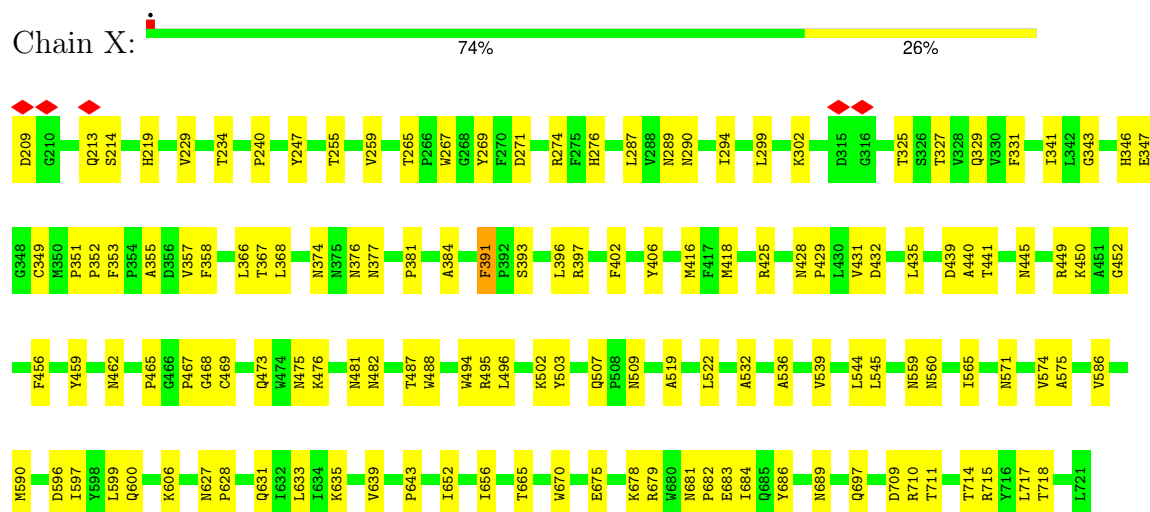
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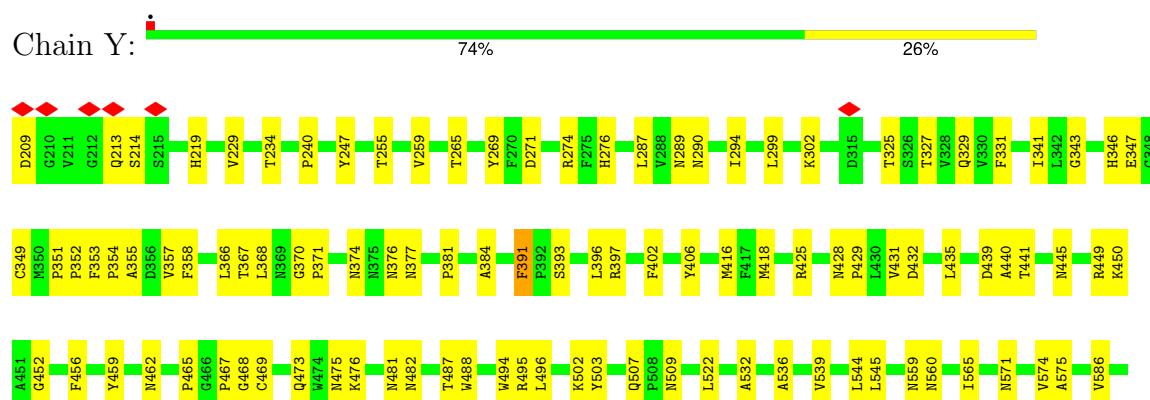
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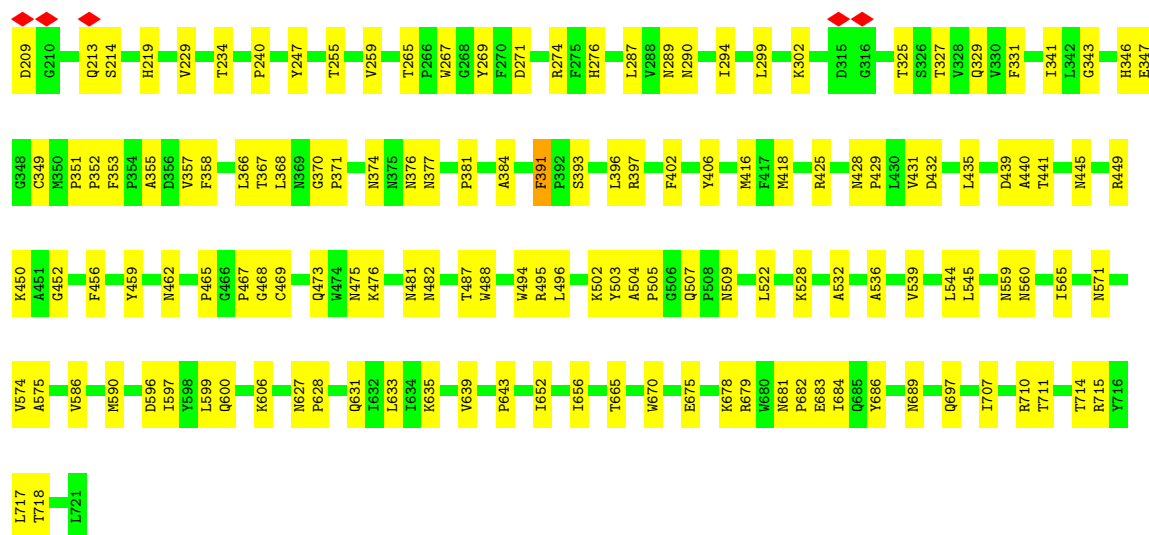


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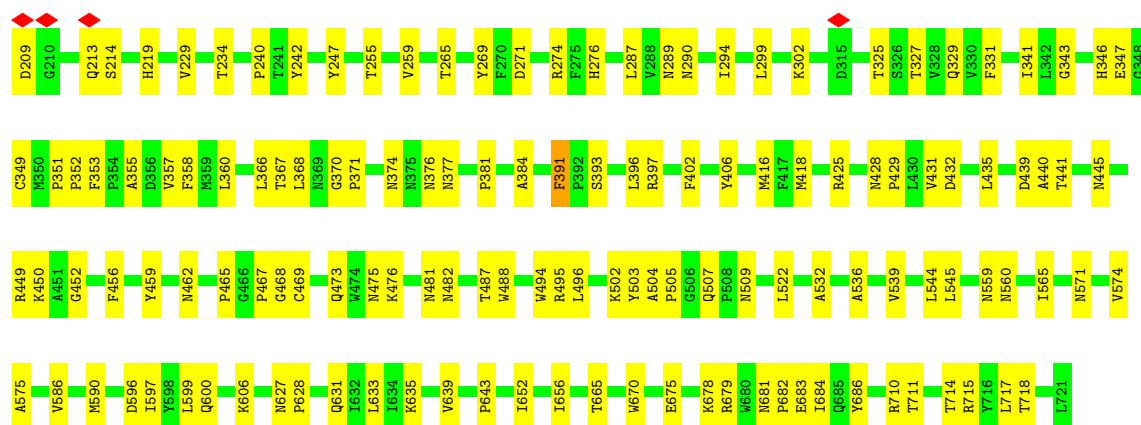




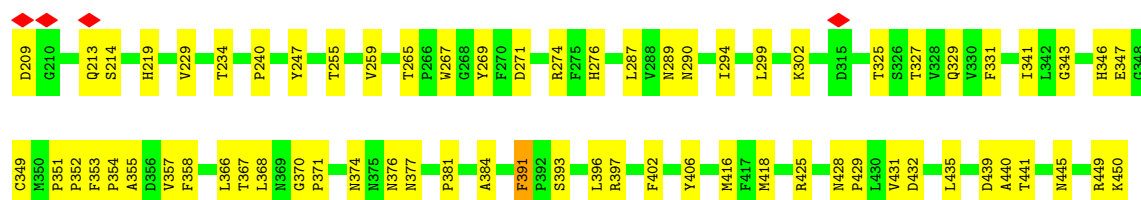
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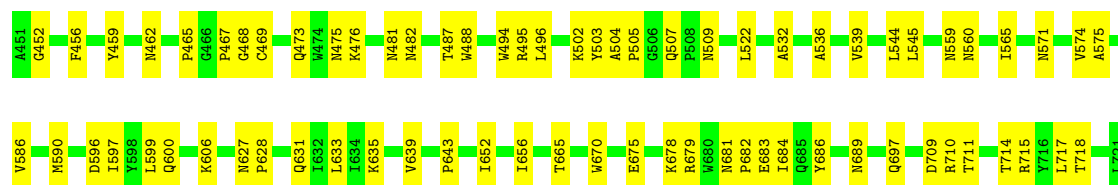


• Molecule 1: VP1 capsid

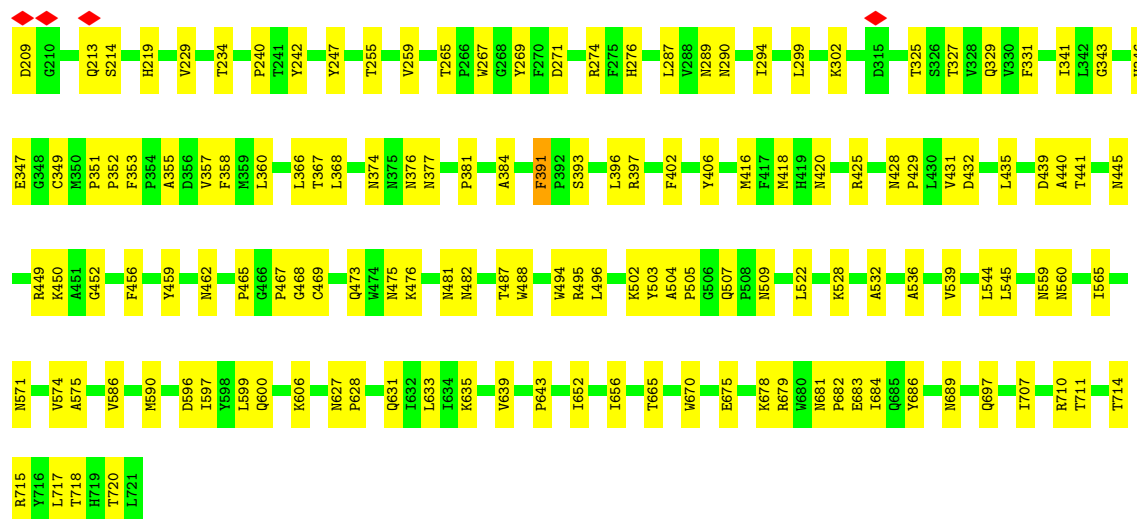


• Molecule 1: VP1 capsid

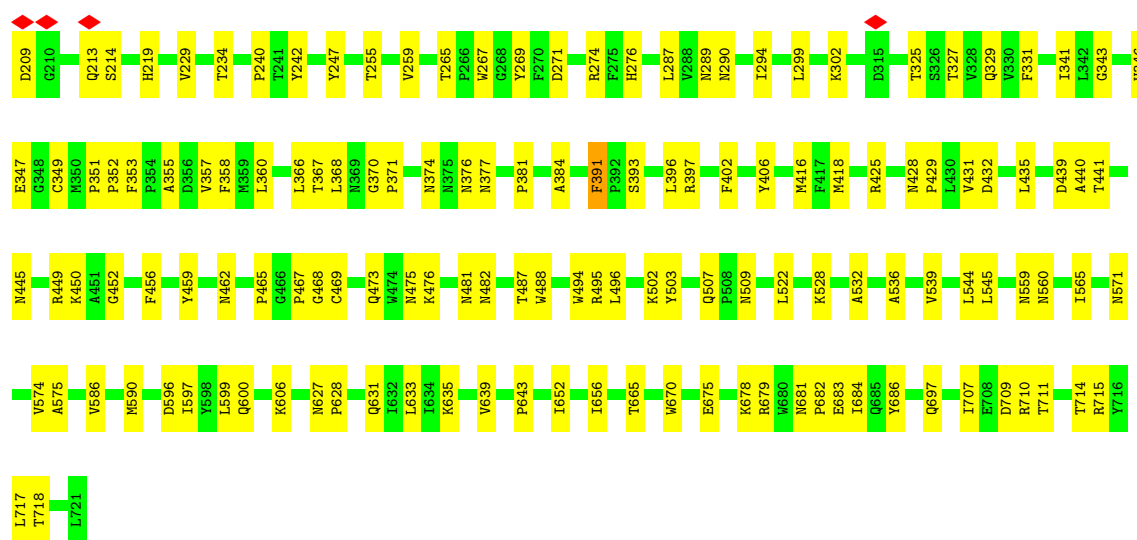




• Molecule 1: VP1 capsid

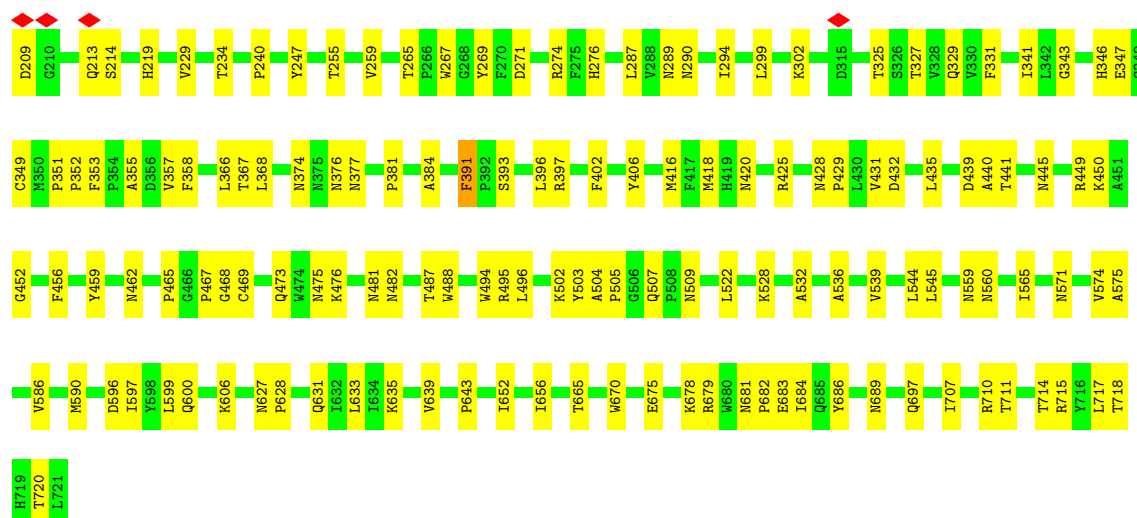


• Molecule 1: VP1 capsid

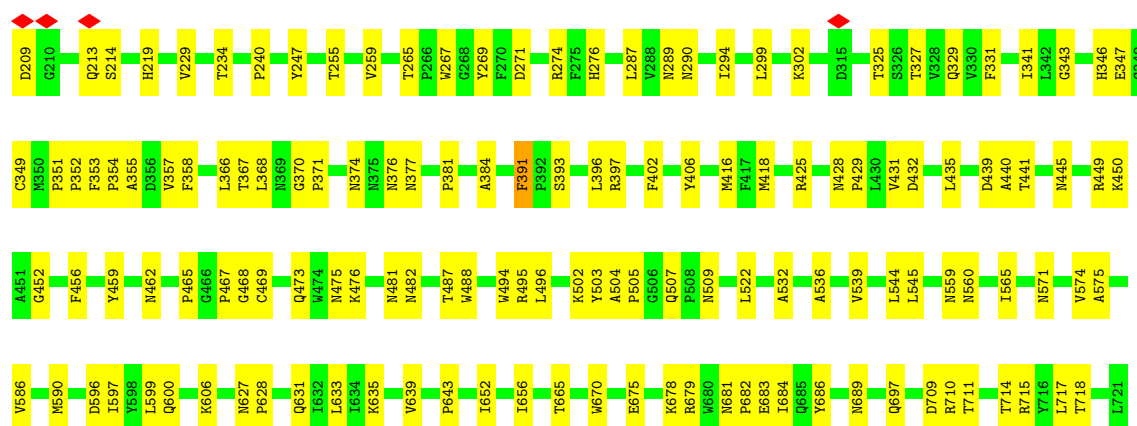


• Molecule 1: VP1 capsid

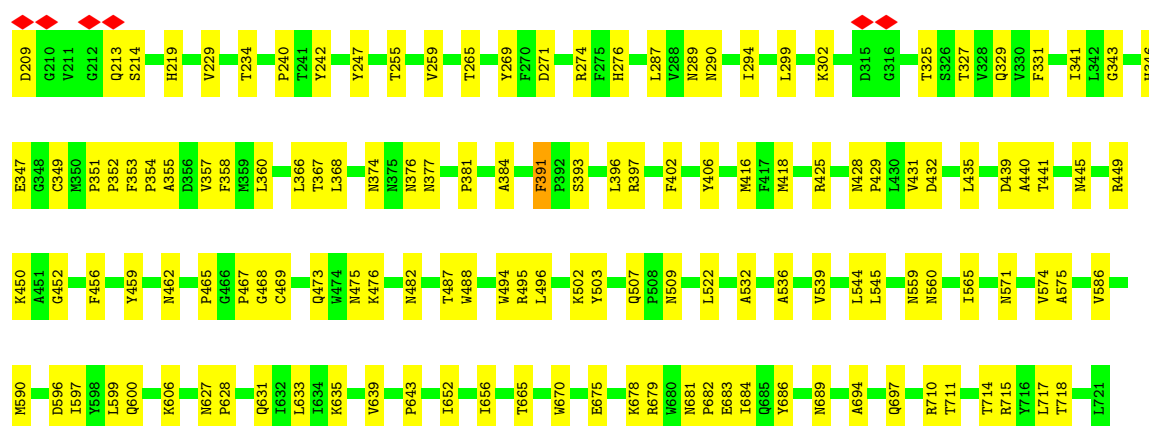




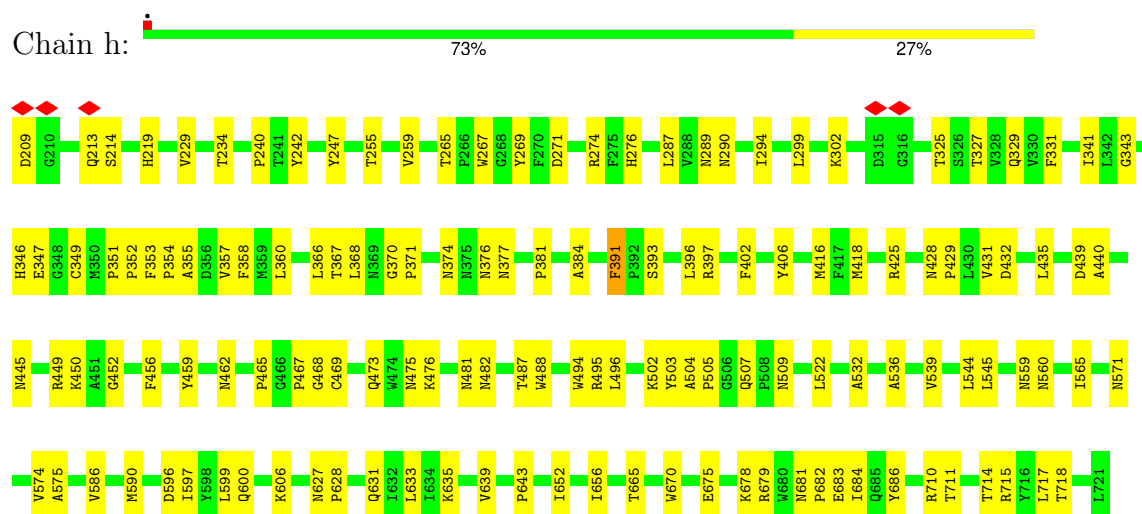
• Molecule 1: VP1 capsid



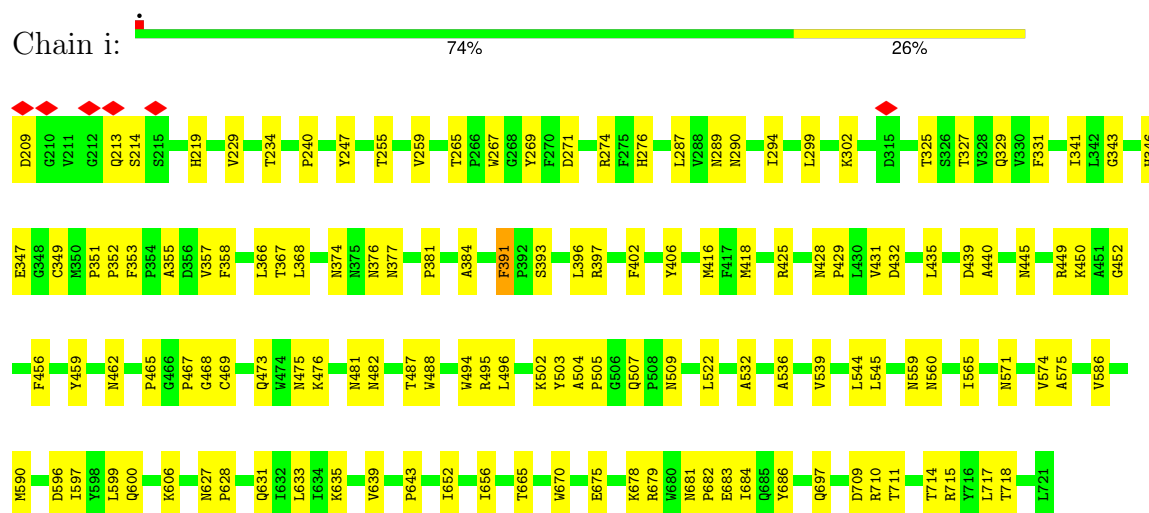
• Molecule 1: VP1 capsid



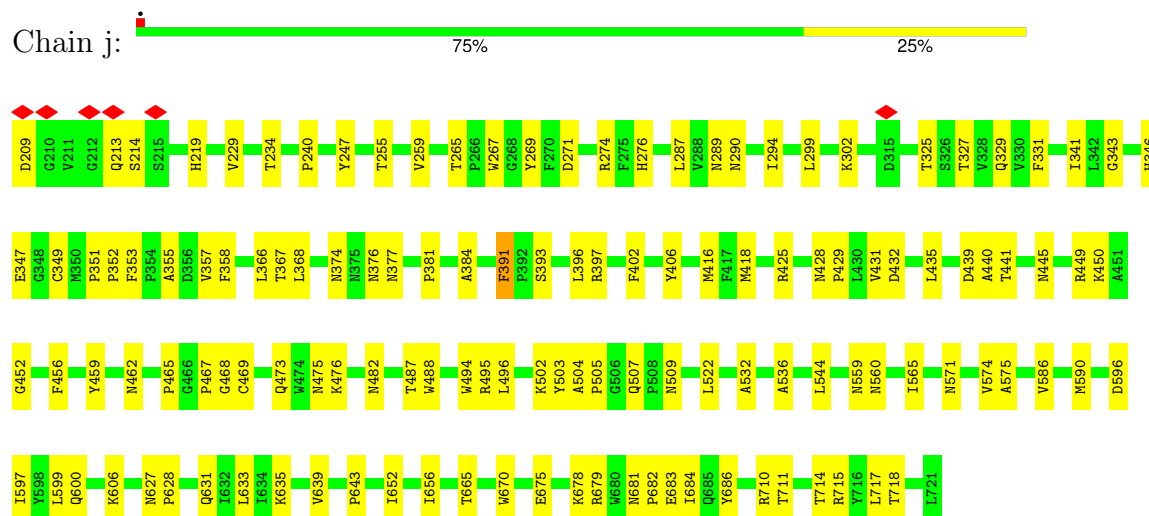
● Molecule 1: VP1 capsid



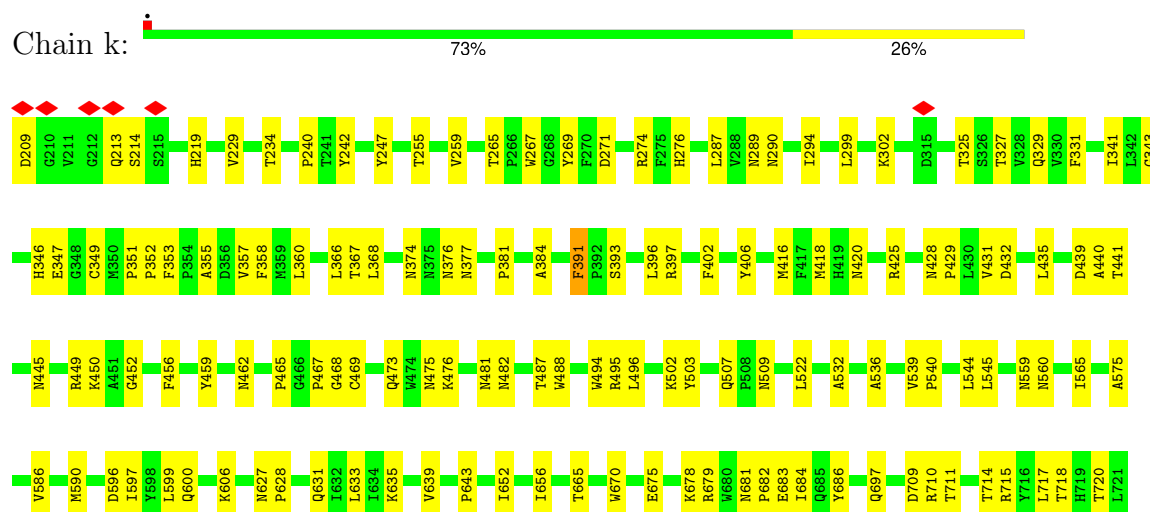
● Molecule 1: VP1 capsid



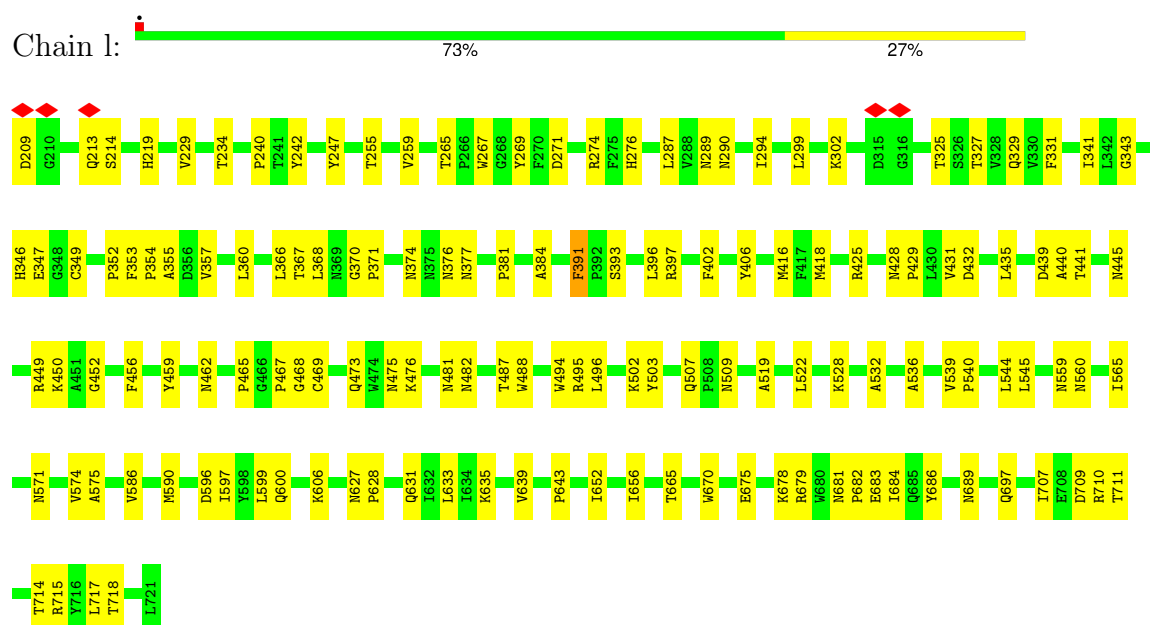
● Molecule 1: VP1 capsid



- Molecule 1: VP1 capsid

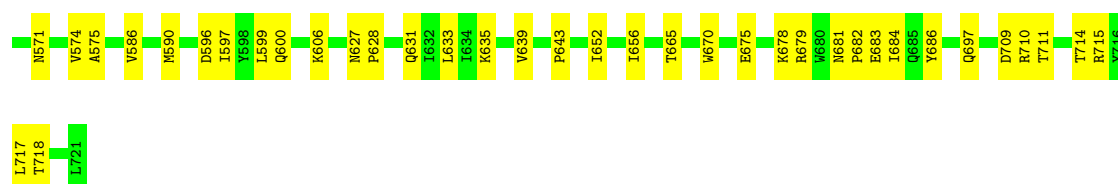


- Molecule 1: VP1 capsid

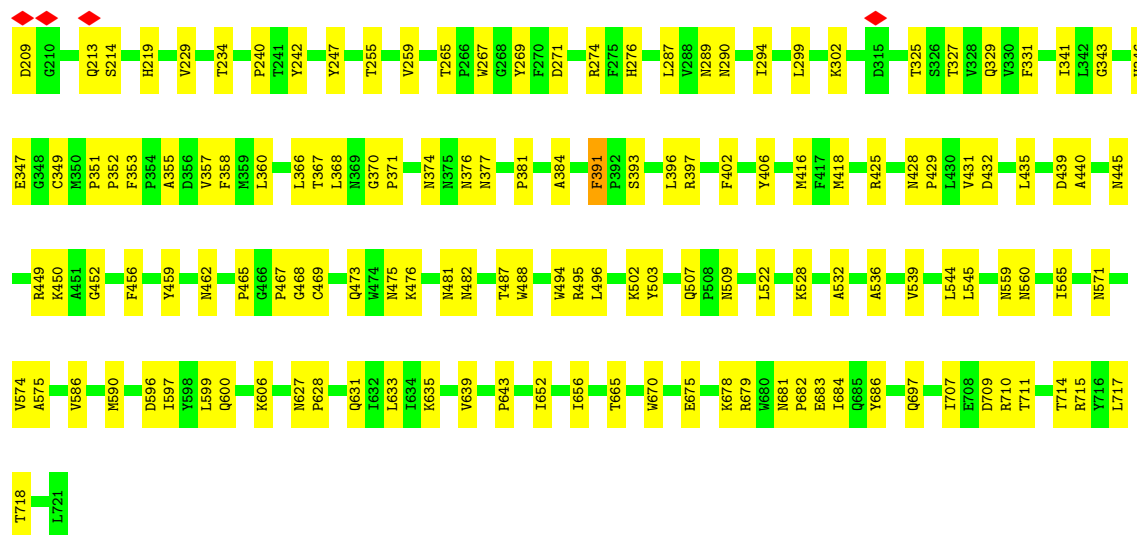


- Molecule 1: VP1 capsid

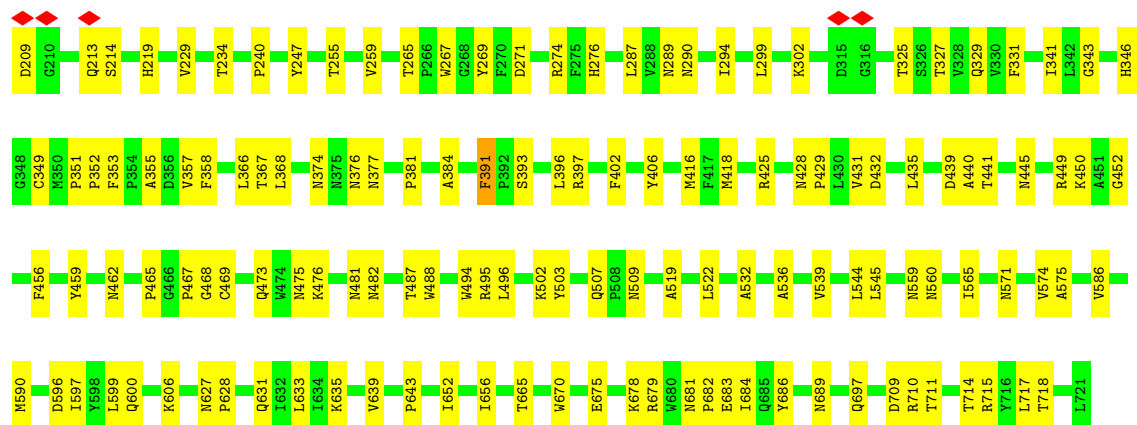




• Molecule 1: VP1 capsid

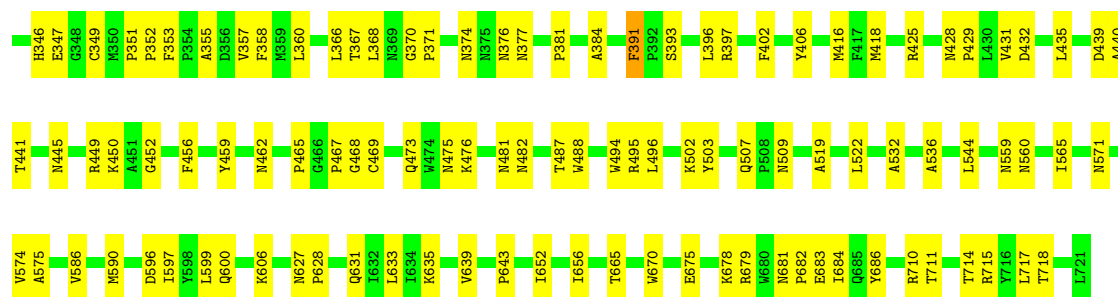


• Molecule 1: VP1 capsid

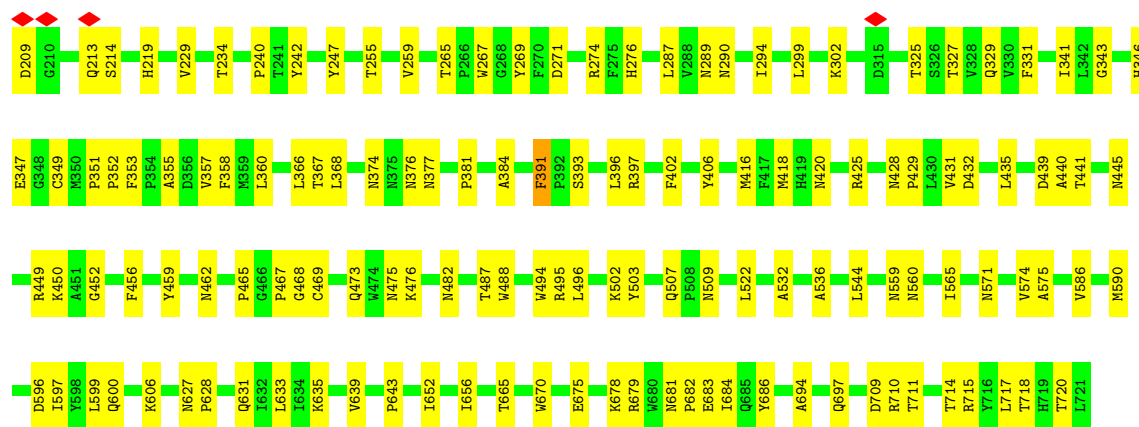


• Molecule 1: VP1 capsid

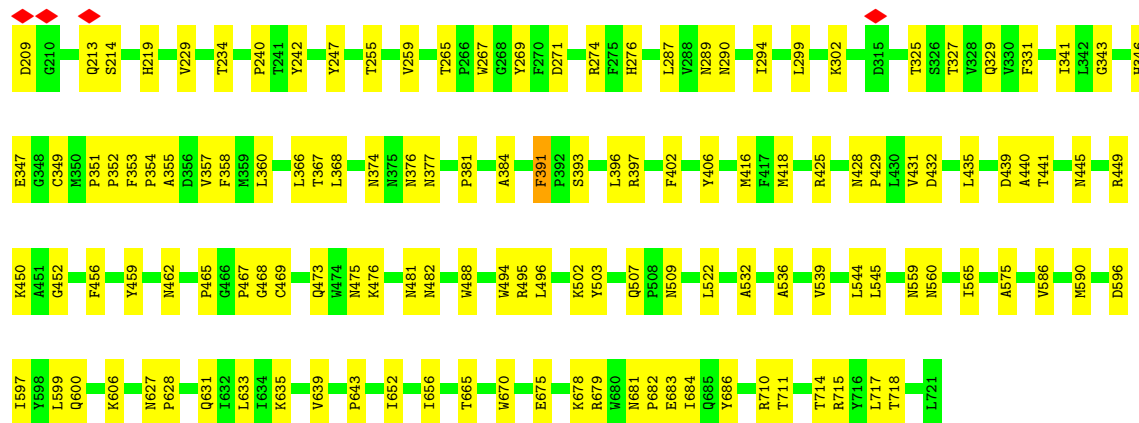




• Molecule 1: VP1 capsid

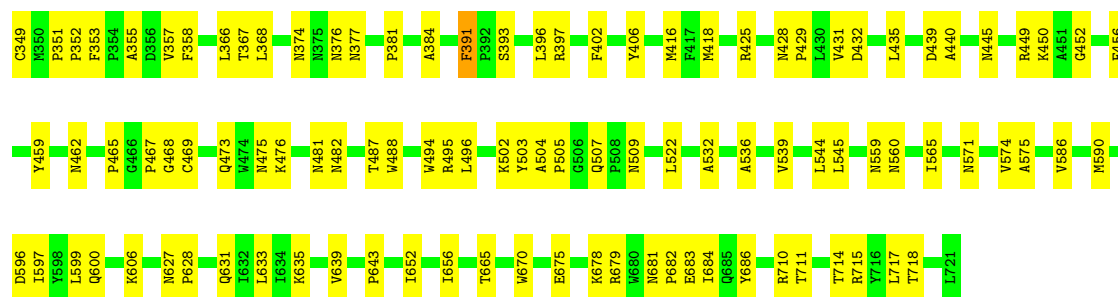


• Molecule 1: VP1 capsid

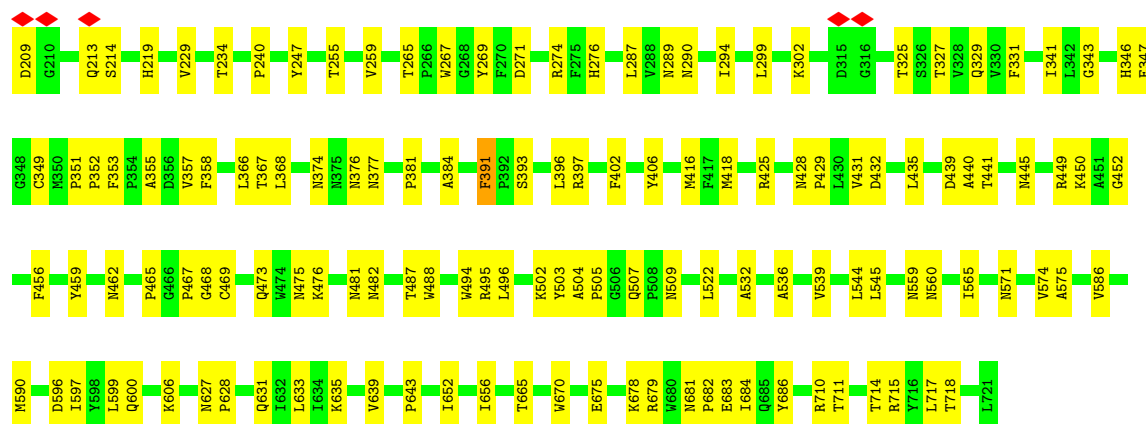


• Molecule 1: VP1 capsid

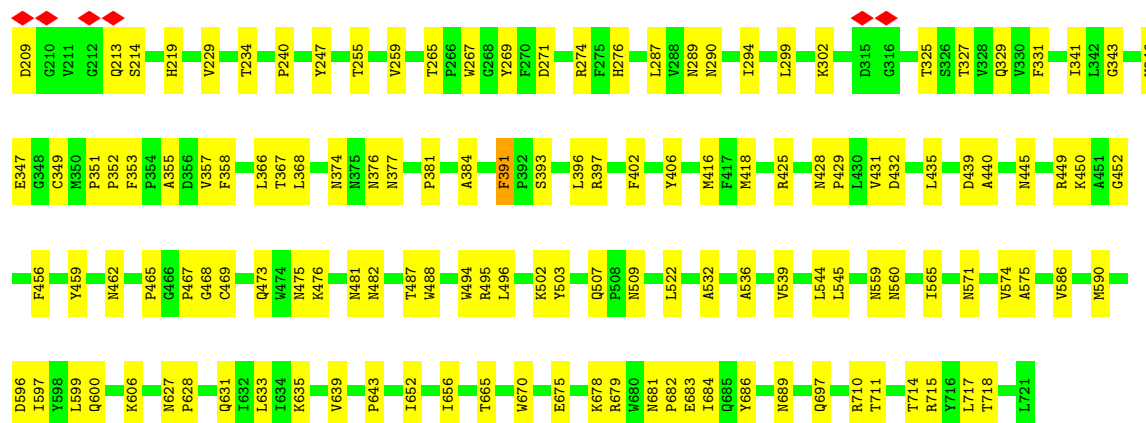




• Molecule 1: VP1 capsid

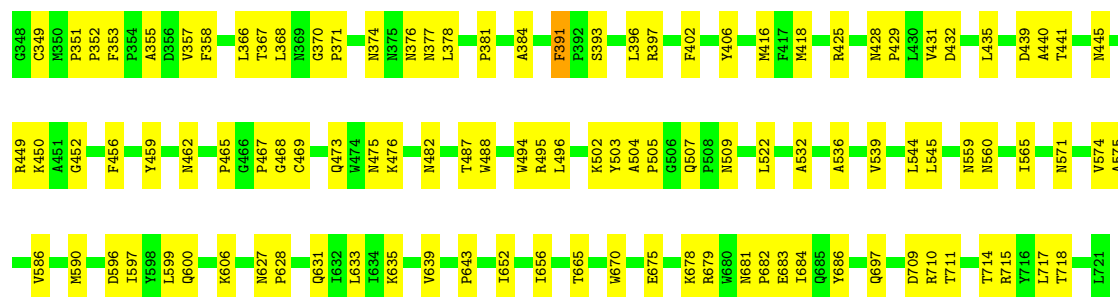


• Molecule 1: VP1 capsid

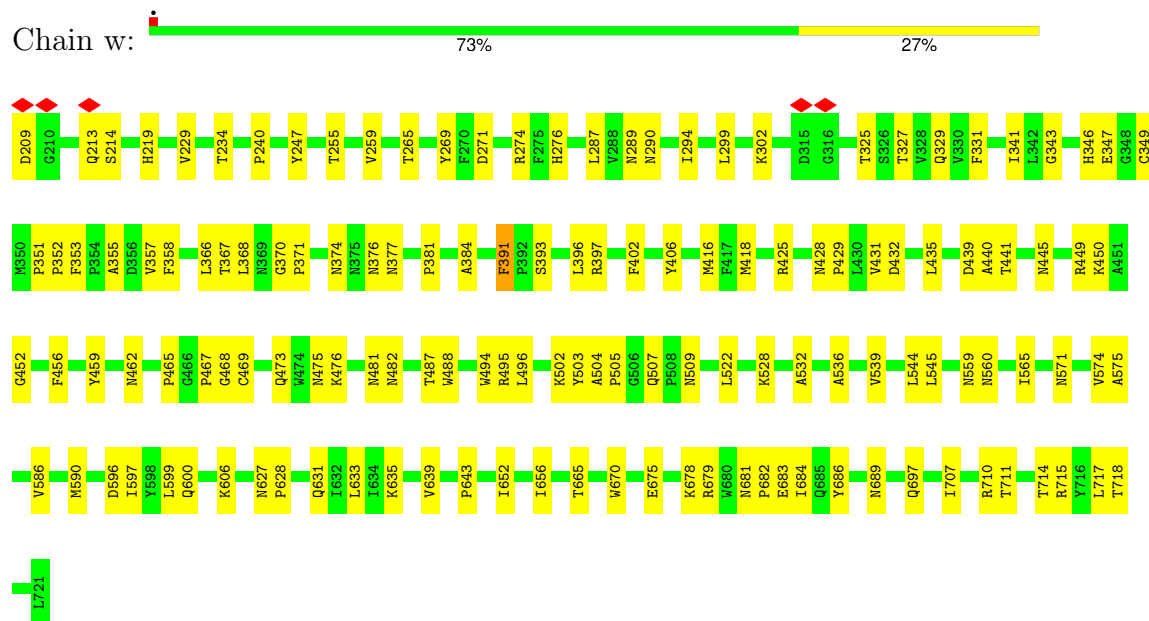


• Molecule 1: VP1 capsid

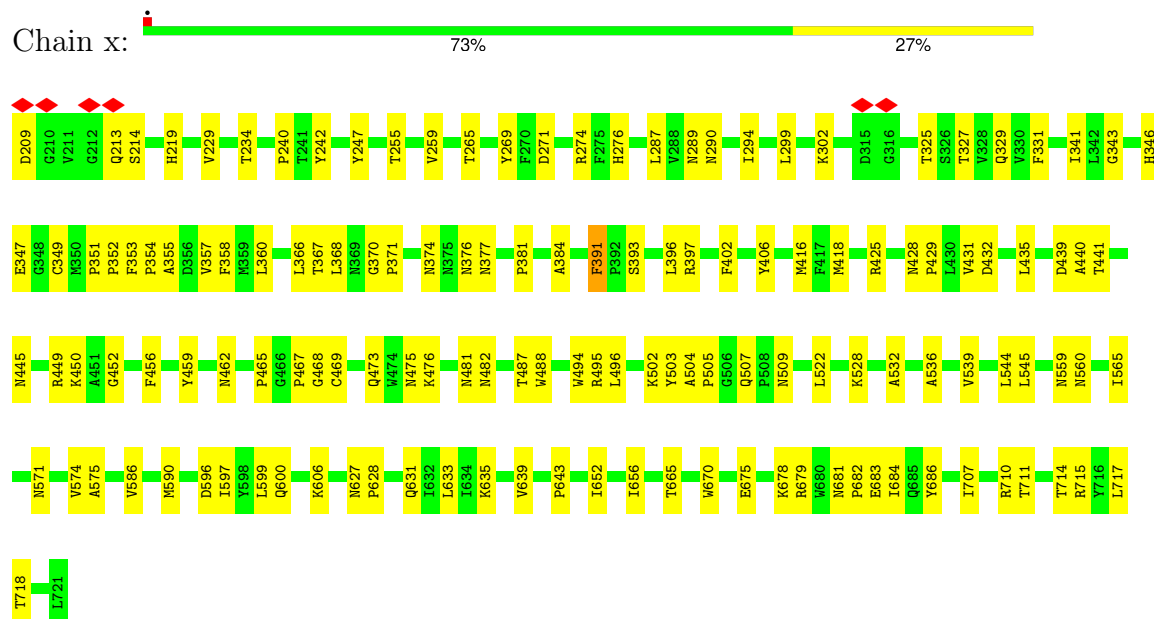




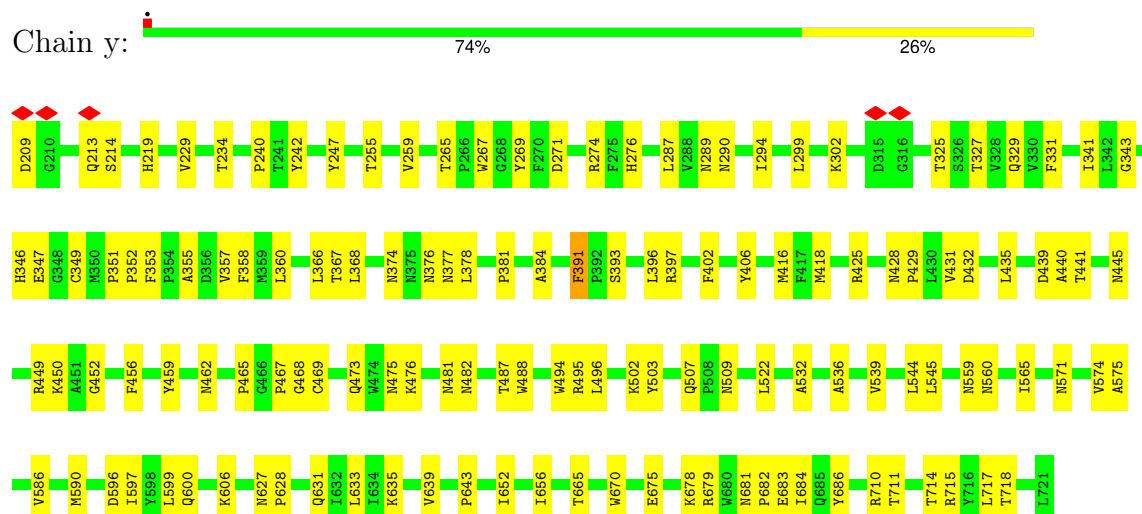
- Molecule 1: VP1 capsid



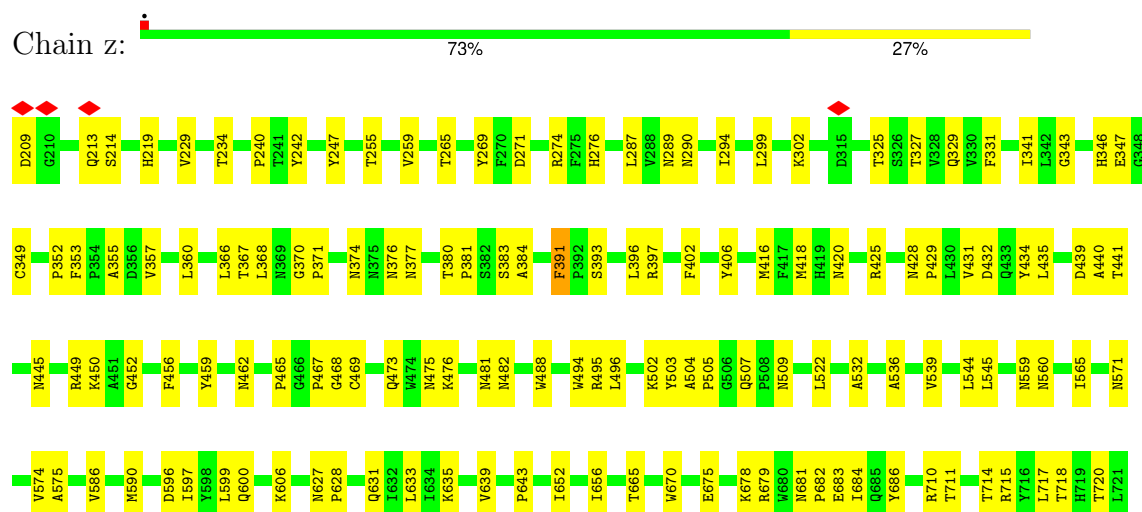
- Molecule 1: VP1 capsid



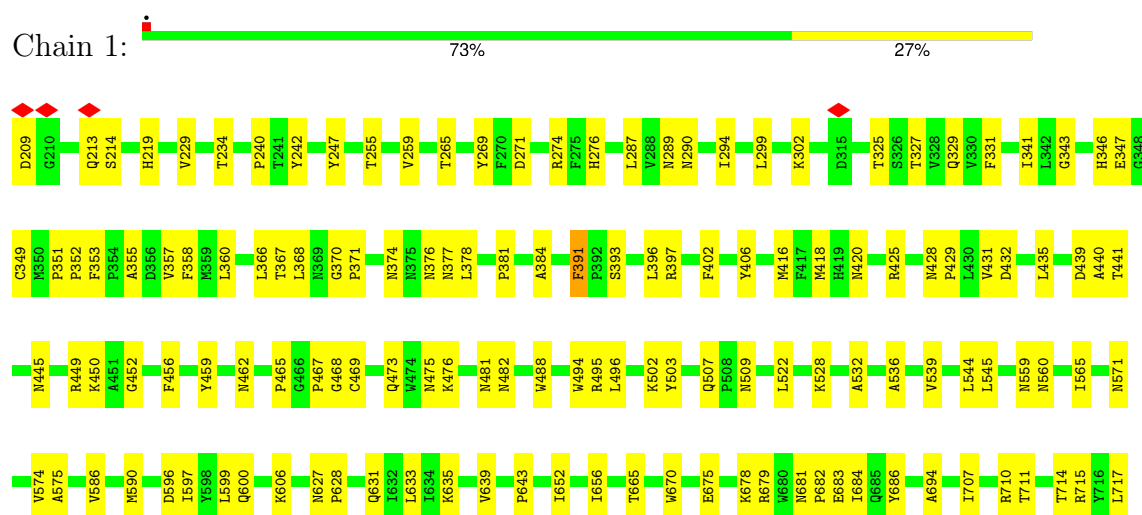
- Molecule 1: VP1 capsid

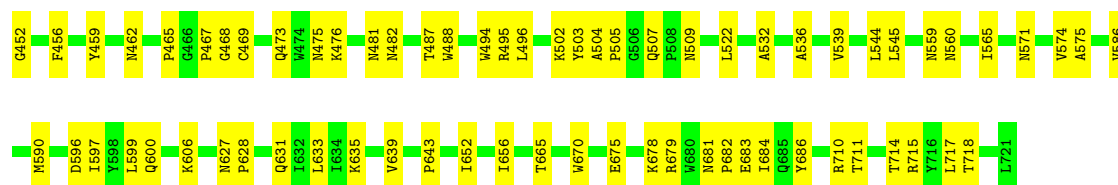


• Molecule 1: VP1 capsid

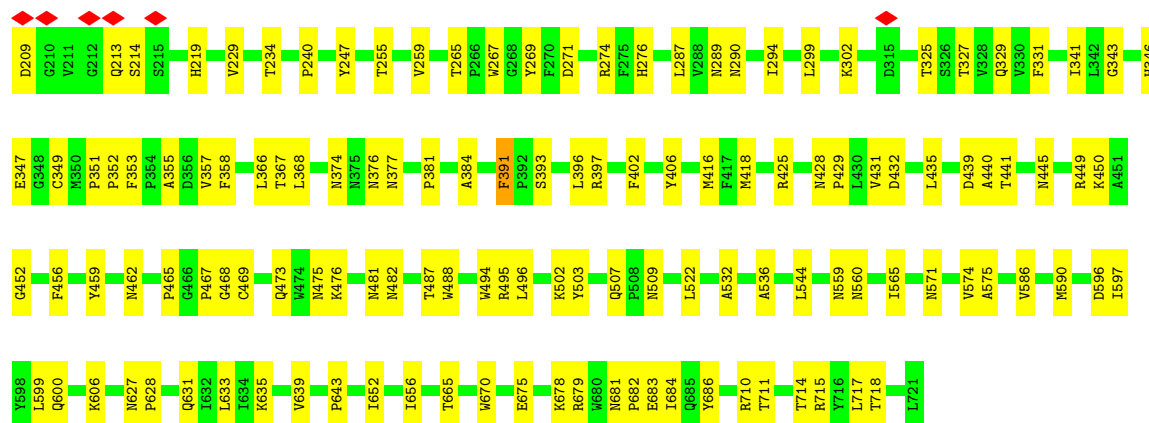


• Molecule 1: VP1 capsid

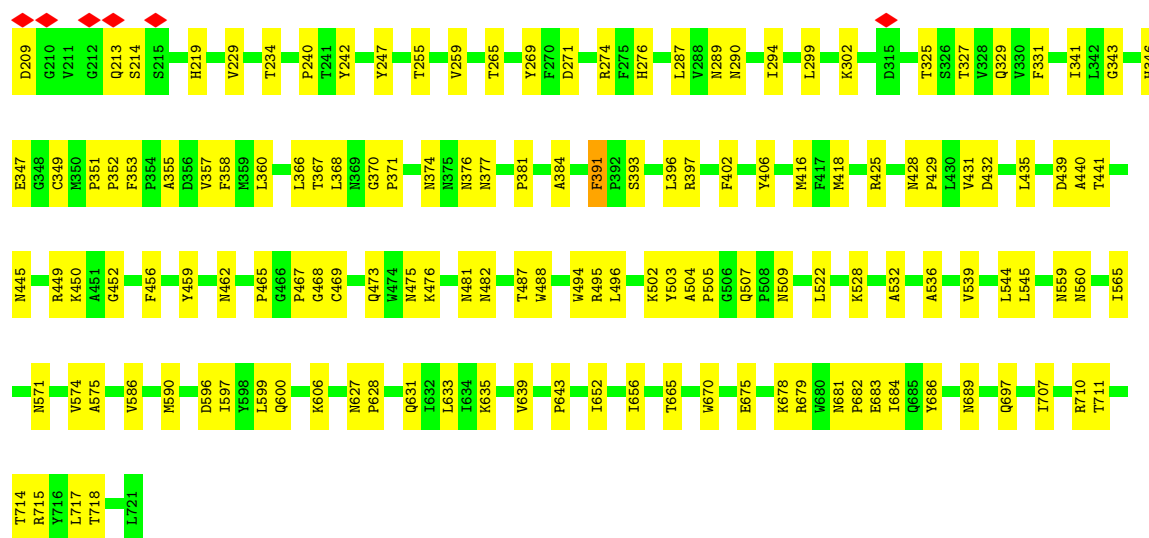




• Molecule 1: VP1 capsid



• Molecule 1: VP1 capsid

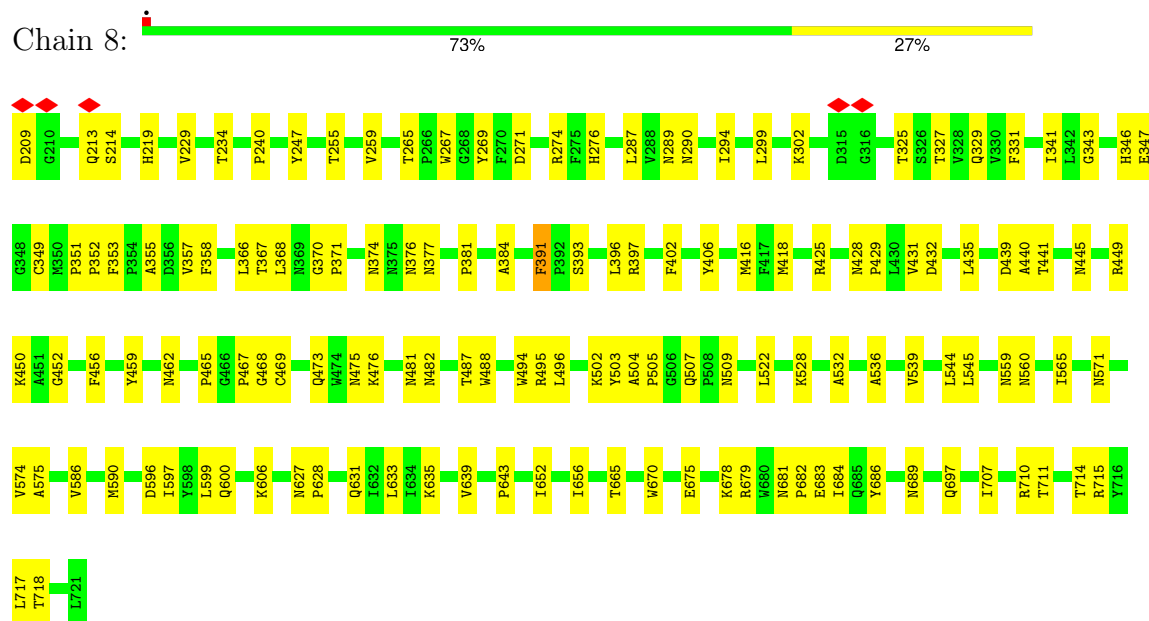


• Molecule 1: VP1 capsid





• Molecule 1: VP1 capsid



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	4088	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	13.278	Depositor
Minimum map value	-7.348	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	425.19998, 425.19998, 425.19998	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.063, 1.063, 1.063	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	0.39	1/4220 (0.0%)	0.50	0/5761
1	2	0.39	1/4220 (0.0%)	0.50	0/5761
1	3	0.39	1/4220 (0.0%)	0.50	0/5761
1	4	0.39	1/4220 (0.0%)	0.50	0/5761
1	5	0.39	1/4220 (0.0%)	0.50	0/5761
1	6	0.39	1/4220 (0.0%)	0.50	0/5761
1	7	0.39	1/4220 (0.0%)	0.50	0/5761
1	8	0.39	1/4220 (0.0%)	0.50	0/5761
1	A	0.39	1/4220 (0.0%)	0.50	0/5761
1	B	0.39	1/4220 (0.0%)	0.50	0/5761
1	C	0.39	1/4220 (0.0%)	0.50	0/5761
1	D	0.39	1/4220 (0.0%)	0.50	0/5761
1	E	0.39	1/4220 (0.0%)	0.50	0/5761
1	F	0.39	1/4220 (0.0%)	0.50	0/5761
1	G	0.39	1/4220 (0.0%)	0.50	0/5761
1	H	0.39	1/4220 (0.0%)	0.50	0/5761
1	I	0.39	1/4220 (0.0%)	0.50	0/5761
1	J	0.39	1/4220 (0.0%)	0.50	0/5761
1	K	0.39	1/4220 (0.0%)	0.50	0/5761
1	L	0.39	1/4220 (0.0%)	0.50	0/5761
1	M	0.39	1/4220 (0.0%)	0.50	0/5761
1	N	0.39	1/4220 (0.0%)	0.50	0/5761
1	O	0.39	1/4220 (0.0%)	0.50	0/5761
1	P	0.39	1/4220 (0.0%)	0.50	0/5761
1	Q	0.39	1/4220 (0.0%)	0.50	0/5761
1	R	0.39	1/4220 (0.0%)	0.50	0/5761
1	S	0.39	1/4220 (0.0%)	0.50	0/5761
1	T	0.39	1/4220 (0.0%)	0.50	0/5761
1	U	0.39	1/4220 (0.0%)	0.50	0/5761
1	V	0.39	1/4220 (0.0%)	0.50	0/5761
1	W	0.39	1/4220 (0.0%)	0.50	0/5761
1	X	0.39	1/4220 (0.0%)	0.50	0/5761
1	Y	0.39	1/4220 (0.0%)	0.50	0/5761
1	Z	0.39	1/4220 (0.0%)	0.50	0/5761

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.39	1/4220 (0.0%)	0.50	0/5761
1	b	0.39	1/4220 (0.0%)	0.50	0/5761
1	c	0.39	1/4220 (0.0%)	0.50	0/5761
1	d	0.39	1/4220 (0.0%)	0.50	0/5761
1	e	0.39	1/4220 (0.0%)	0.50	0/5761
1	f	0.39	1/4220 (0.0%)	0.50	0/5761
1	g	0.39	1/4220 (0.0%)	0.50	0/5761
1	h	0.39	1/4220 (0.0%)	0.50	0/5761
1	i	0.39	1/4220 (0.0%)	0.50	0/5761
1	j	0.39	1/4220 (0.0%)	0.50	0/5761
1	k	0.39	1/4220 (0.0%)	0.50	0/5761
1	l	0.39	1/4220 (0.0%)	0.50	0/5761
1	m	0.39	1/4220 (0.0%)	0.50	0/5761
1	n	0.39	1/4220 (0.0%)	0.50	0/5761
1	o	0.39	1/4220 (0.0%)	0.50	0/5761
1	p	0.39	1/4220 (0.0%)	0.50	0/5761
1	q	0.39	1/4220 (0.0%)	0.50	0/5761
1	r	0.39	1/4220 (0.0%)	0.50	0/5761
1	s	0.39	1/4220 (0.0%)	0.50	0/5761
1	t	0.39	1/4220 (0.0%)	0.50	0/5761
1	u	0.39	1/4220 (0.0%)	0.50	0/5761
1	v	0.39	1/4220 (0.0%)	0.50	0/5761
1	w	0.39	1/4220 (0.0%)	0.50	0/5761
1	x	0.39	1/4220 (0.0%)	0.50	0/5761
1	y	0.39	1/4220 (0.0%)	0.50	0/5761
1	z	0.39	1/4220 (0.0%)	0.50	0/5761
All	All	0.39	60/253200 (0.0%)	0.50	0/345660

All (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	391	PHE	C-N	-5.73	1.20	1.33
1	V	391	PHE	C-N	-5.73	1.20	1.33
1	b	391	PHE	C-N	-5.73	1.20	1.33
1	e	391	PHE	C-N	-5.73	1.20	1.33
1	g	391	PHE	C-N	-5.73	1.20	1.33
1	p	391	PHE	C-N	-5.73	1.20	1.33
1	x	391	PHE	C-N	-5.73	1.20	1.33
1	4	391	PHE	C-N	-5.73	1.20	1.33
1	D	391	PHE	C-N	-5.73	1.20	1.33
1	W	391	PHE	C-N	-5.73	1.20	1.33
1	i	391	PHE	C-N	-5.73	1.20	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k	391	PHE	C-N	-5.73	1.20	1.33
1	6	391	PHE	C-N	-5.73	1.20	1.33
1	7	391	PHE	C-N	-5.73	1.20	1.33
1	B	391	PHE	C-N	-5.72	1.20	1.33
1	R	391	PHE	C-N	-5.72	1.20	1.33
1	l	391	PHE	C-N	-5.72	1.20	1.33
1	w	391	PHE	C-N	-5.72	1.20	1.33
1	2	391	PHE	C-N	-5.72	1.20	1.33
1	8	391	PHE	C-N	-5.72	1.20	1.33
1	a	391	PHE	C-N	-5.72	1.20	1.33
1	c	391	PHE	C-N	-5.72	1.20	1.33
1	d	391	PHE	C-N	-5.72	1.20	1.33
1	n	391	PHE	C-N	-5.72	1.20	1.33
1	y	391	PHE	C-N	-5.72	1.20	1.33
1	3	391	PHE	C-N	-5.72	1.20	1.33
1	q	391	PHE	C-N	-5.72	1.20	1.33
1	E	391	PHE	C-N	-5.71	1.20	1.33
1	G	391	PHE	C-N	-5.71	1.20	1.33
1	M	391	PHE	C-N	-5.71	1.20	1.33
1	O	391	PHE	C-N	-5.71	1.20	1.33
1	X	391	PHE	C-N	-5.71	1.20	1.33
1	Z	391	PHE	C-N	-5.71	1.20	1.33
1	h	391	PHE	C-N	-5.71	1.20	1.33
1	o	391	PHE	C-N	-5.71	1.20	1.33
1	t	391	PHE	C-N	-5.71	1.20	1.33
1	H	391	PHE	C-N	-5.71	1.20	1.33
1	P	391	PHE	C-N	-5.71	1.20	1.33
1	L	391	PHE	C-N	-5.70	1.20	1.33
1	U	391	PHE	C-N	-5.70	1.20	1.33
1	s	391	PHE	C-N	-5.70	1.20	1.33
1	I	391	PHE	C-N	-5.70	1.20	1.33
1	K	391	PHE	C-N	-5.70	1.20	1.33
1	Q	391	PHE	C-N	-5.70	1.20	1.33
1	T	391	PHE	C-N	-5.70	1.20	1.33
1	m	391	PHE	C-N	-5.70	1.20	1.33
1	u	391	PHE	C-N	-5.70	1.20	1.33
1	J	391	PHE	C-N	-5.69	1.20	1.33
1	S	391	PHE	C-N	-5.69	1.20	1.33
1	f	391	PHE	C-N	-5.69	1.20	1.33
1	r	391	PHE	C-N	-5.69	1.20	1.33
1	v	391	PHE	C-N	-5.69	1.20	1.33
1	z	391	PHE	C-N	-5.69	1.20	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	391	PHE	C-N	-5.69	1.20	1.33
1	N	391	PHE	C-N	-5.69	1.20	1.33
1	Y	391	PHE	C-N	-5.69	1.20	1.33
1	j	391	PHE	C-N	-5.69	1.20	1.33
1	5	391	PHE	C-N	-5.69	1.20	1.33
1	A	391	PHE	C-N	-5.68	1.20	1.33
1	F	391	PHE	C-N	-5.68	1.20	1.33

There are no bond angle outliers.

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	4085	0	3858	122	0
1	2	4085	0	3858	119	0
1	3	4085	0	3858	118	0
1	4	4085	0	3858	117	0
1	5	4085	0	3858	113	0
1	6	4085	0	3858	119	0
1	7	4085	0	3858	115	0
1	8	4085	0	3858	118	0
1	A	4085	0	3858	117	0
1	B	4085	0	3858	122	0
1	C	4085	0	3858	114	0
1	D	4085	0	3858	117	0
1	E	4085	0	3858	120	0
1	F	4085	0	3858	116	0
1	G	4085	0	3858	113	0
1	H	4085	0	3858	115	0
1	I	4085	0	3858	112	0
1	J	4085	0	3858	120	0
1	K	4085	0	3858	115	0
1	L	4085	0	3858	118	0
1	M	4085	0	3858	116	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	N	4085	0	3858	116	0
1	O	4085	0	3858	119	0
1	P	4085	0	3858	114	0
1	Q	4085	0	3858	117	0
1	R	4085	0	3858	120	0
1	S	4085	0	3858	117	0
1	T	4085	0	3858	119	0
1	U	4085	0	3858	114	0
1	V	4085	0	3858	117	0
1	W	4085	0	3858	117	0
1	X	4085	0	3858	118	0
1	Y	4085	0	3858	115	0
1	Z	4085	0	3858	118	0
1	a	4085	0	3858	117	0
1	b	4085	0	3858	119	0
1	c	4085	0	3858	119	0
1	d	4085	0	3858	119	0
1	e	4085	0	3858	119	0
1	f	4085	0	3858	120	0
1	g	4085	0	3858	114	0
1	h	4085	0	3858	116	0
1	i	4085	0	3858	114	0
1	j	4085	0	3858	113	0
1	k	4085	0	3858	117	0
1	l	4085	0	3858	121	0
1	m	4085	0	3858	118	0
1	n	4085	0	3858	118	0
1	o	4085	0	3858	117	0
1	p	4085	0	3858	117	0
1	q	4085	0	3858	119	0
1	r	4085	0	3858	117	0
1	s	4085	0	3858	114	0
1	t	4085	0	3858	117	0
1	u	4085	0	3858	113	0
1	v	4085	0	3858	118	0
1	w	4085	0	3858	119	0
1	x	4085	0	3858	116	0
1	y	4085	0	3858	115	0
1	z	4085	0	3858	118	0
All	All	245100	0	231480	5520	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 12.

All (5520) 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:u:325:THR:O	1:u:397:ARG:NH1	2.19	0.76
1:C:325:THR:O	1:C:397:ARG:NH1	2.19	0.76
1:I:325:THR:O	1:I:397:ARG:NH1	2.19	0.76
1:Q:325:THR:O	1:Q:397:ARG:NH1	2.19	0.76
1:U:325:THR:O	1:U:397:ARG:NH1	2.19	0.76
1:g:325:THR:O	1:g:397:ARG:NH1	2.19	0.76
1:i:325:THR:O	1:i:397:ARG:NH1	2.19	0.76
1:x:325:THR:O	1:x:397:ARG:NH1	2.19	0.76
1:N:325:THR:O	1:N:397:ARG:NH1	2.19	0.76
1:O:325:THR:O	1:O:397:ARG:NH1	2.19	0.76
1:V:325:THR:O	1:V:397:ARG:NH1	2.19	0.76
1:s:325:THR:O	1:s:397:ARG:NH1	2.19	0.76
1:l:325:THR:O	1:l:397:ARG:NH1	2.19	0.76
1:2:325:THR:O	1:2:397:ARG:NH1	2.19	0.76
1:4:325:THR:O	1:4:397:ARG:NH1	2.19	0.76
1:J:325:THR:O	1:J:397:ARG:NH1	2.19	0.76
1:K:325:THR:O	1:K:397:ARG:NH1	2.19	0.76
1:l:325:THR:O	1:l:397:ARG:NH1	2.19	0.76
1:p:325:THR:O	1:p:397:ARG:NH1	2.19	0.76
1:y:325:THR:O	1:y:397:ARG:NH1	2.19	0.76
1:B:325:THR:O	1:B:397:ARG:NH1	2.19	0.75
1:D:325:THR:O	1:D:397:ARG:NH1	2.19	0.75
1:F:325:THR:O	1:F:397:ARG:NH1	2.19	0.75
1:W:325:THR:O	1:W:397:ARG:NH1	2.19	0.75
1:b:325:THR:O	1:b:397:ARG:NH1	2.19	0.75
1:k:325:THR:O	1:k:397:ARG:NH1	2.19	0.75
1:Z:325:THR:O	1:Z:397:ARG:NH1	2.19	0.75
1:f:325:THR:O	1:f:397:ARG:NH1	2.19	0.75
1:6:325:THR:O	1:6:397:ARG:NH1	2.19	0.75
1:8:325:THR:O	1:8:397:ARG:NH1	2.19	0.75
1:h:325:THR:O	1:h:397:ARG:NH1	2.19	0.75
1:H:325:THR:O	1:H:397:ARG:NH1	2.19	0.75
1:M:325:THR:O	1:M:397:ARG:NH1	2.19	0.75
1:v:325:THR:O	1:v:397:ARG:NH1	2.19	0.75
1:A:325:THR:O	1:A:397:ARG:NH1	2.19	0.75
1:5:325:THR:O	1:5:397:ARG:NH1	2.19	0.75
1:S:325:THR:O	1:S:397:ARG:NH1	2.19	0.75
1:w:325:THR:O	1:w:397:ARG:NH1	2.19	0.75
1:E:325:THR:O	1:E:397:ARG:NH1	2.19	0.75
1:r:325:THR:O	1:r:397:ARG:NH1	2.19	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:325:THR:O	1:t:397:ARG:NH1	2.19	0.75
1:G:325:THR:O	1:G:397:ARG:NH1	2.19	0.75
1:q:325:THR:O	1:q:397:ARG:NH1	2.19	0.75
1:R:325:THR:O	1:R:397:ARG:NH1	2.19	0.75
1:X:325:THR:O	1:X:397:ARG:NH1	2.19	0.75
1:j:325:THR:O	1:j:397:ARG:NH1	2.19	0.75
1:L:325:THR:O	1:L:397:ARG:NH1	2.19	0.74
1:P:325:THR:O	1:P:397:ARG:NH1	2.19	0.74
1:Y:325:THR:O	1:Y:397:ARG:NH1	2.19	0.74
1:o:325:THR:O	1:o:397:ARG:NH1	2.19	0.74
1:z:325:THR:O	1:z:397:ARG:NH1	2.19	0.74
1:7:325:THR:O	1:7:397:ARG:NH1	2.19	0.74
1:T:325:THR:O	1:T:397:ARG:NH1	2.19	0.74
1:m:325:THR:O	1:m:397:ARG:NH1	2.19	0.74
1:3:325:THR:O	1:3:397:ARG:NH1	2.19	0.74
1:a:325:THR:O	1:a:397:ARG:NH1	2.19	0.74
1:c:325:THR:O	1:c:397:ARG:NH1	2.19	0.74
1:e:325:THR:O	1:e:397:ARG:NH1	2.19	0.74
1:n:325:THR:O	1:n:397:ARG:NH1	2.19	0.74
1:d:325:THR:O	1:d:397:ARG:NH1	2.19	0.74
1:x:289:ASN:HD21	1:x:686:TYR:H	1.37	0.73
1:Q:289:ASN:HD21	1:Q:686:TYR:H	1.37	0.73
1:c:289:ASN:HD21	1:c:686:TYR:H	1.37	0.73
1:e:289:ASN:HD21	1:e:686:TYR:H	1.37	0.73
1:h:289:ASN:HD21	1:h:686:TYR:H	1.37	0.73
1:J:289:ASN:HD21	1:J:686:TYR:H	1.37	0.72
1:M:289:ASN:HD21	1:M:686:TYR:H	1.37	0.72
1:j:289:ASN:HD21	1:j:686:TYR:H	1.37	0.72
1:P:289:ASN:HD21	1:P:686:TYR:H	1.38	0.72
1:2:289:ASN:HD21	1:2:686:TYR:H	1.37	0.72
1:k:289:ASN:HD21	1:k:686:TYR:H	1.37	0.72
1:S:289:ASN:HD21	1:S:686:TYR:H	1.37	0.72
1:r:289:ASN:HD21	1:r:686:TYR:H	1.37	0.72
1:D:289:ASN:HD21	1:D:686:TYR:H	1.37	0.72
1:O:289:ASN:HD21	1:O:686:TYR:H	1.37	0.72
1:G:289:ASN:HD21	1:G:686:TYR:H	1.37	0.72
1:n:289:ASN:HD21	1:n:686:TYR:H	1.37	0.72
1:t:289:ASN:HD21	1:t:686:TYR:H	1.37	0.72
1:d:289:ASN:HD21	1:d:686:TYR:H	1.37	0.72
1:l:289:ASN:HD21	1:l:686:TYR:H	1.37	0.72
1:I:289:ASN:HD21	1:I:686:TYR:H	1.37	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:289:ASN:HD21	1:U:686:TYR:H	1.37	0.72
1:O:276:HIS:CD2	1:O:352:PRO:HB3	2.25	0.71
1:V:276:HIS:CD2	1:V:352:PRO:HB3	2.26	0.71
1:X:276:HIS:CD2	1:X:352:PRO:HB3	2.25	0.71
1:l:276:HIS:CD2	1:l:352:PRO:HB3	2.25	0.71
1:o:276:HIS:CD2	1:o:352:PRO:HB3	2.25	0.71
1:g:276:HIS:CD2	1:g:352:PRO:HB3	2.26	0.71
1:i:289:ASN:HD21	1:i:686:TYR:H	1.37	0.71
1:p:276:HIS:CD2	1:p:352:PRO:HB3	2.26	0.71
1:s:289:ASN:HD21	1:s:686:TYR:H	1.37	0.71
1:u:289:ASN:HD21	1:u:686:TYR:H	1.37	0.71
1:A:289:ASN:HD21	1:A:686:TYR:H	1.37	0.71
1:C:276:HIS:CD2	1:C:352:PRO:HB3	2.26	0.71
1:H:289:ASN:HD21	1:H:686:TYR:H	1.38	0.71
1:P:276:HIS:CD2	1:P:352:PRO:HB3	2.26	0.71
1:X:289:ASN:HD21	1:X:686:TYR:H	1.37	0.71
1:Y:276:HIS:CD2	1:Y:352:PRO:HB3	2.25	0.71
1:j:276:HIS:CD2	1:j:352:PRO:HB3	2.26	0.71
1:p:289:ASN:HD21	1:p:686:TYR:H	1.37	0.71
1:v:289:ASN:HD21	1:v:686:TYR:H	1.37	0.71
1:5:289:ASN:HD21	1:5:686:TYR:H	1.37	0.71
1:7:276:HIS:CD2	1:7:352:PRO:HB3	2.25	0.71
1:B:276:HIS:CD2	1:B:352:PRO:HB3	2.26	0.71
1:N:289:ASN:HD21	1:N:686:TYR:H	1.37	0.71
1:U:367:THR:HG22	1:U:368:LEU:H	1.56	0.71
1:o:289:ASN:HD21	1:o:686:TYR:H	1.37	0.71
1:s:367:THR:HG22	1:s:368:LEU:H	1.56	0.71
1:l:276:HIS:CD2	1:l:352:PRO:HB3	2.26	0.71
1:3:289:ASN:HD21	1:3:686:TYR:H	1.37	0.71
1:D:276:HIS:CD2	1:D:352:PRO:HB3	2.25	0.71
1:E:367:THR:HG22	1:E:368:LEU:H	1.56	0.71
1:I:367:THR:HG22	1:I:368:LEU:H	1.56	0.71
1:N:367:THR:HG22	1:N:368:LEU:H	1.56	0.71
1:Q:276:HIS:CD2	1:Q:352:PRO:HB3	2.25	0.71
1:T:367:THR:HG22	1:T:368:LEU:H	1.56	0.71
1:V:289:ASN:HD21	1:V:686:TYR:H	1.37	0.71
1:i:367:THR:HG22	1:i:368:LEU:H	1.56	0.71
1:u:367:THR:HG22	1:u:368:LEU:H	1.56	0.71
1:6:289:ASN:HD21	1:6:686:TYR:H	1.37	0.71
1:J:276:HIS:CD2	1:J:352:PRO:HB3	2.25	0.71
1:J:367:THR:HG22	1:J:368:LEU:H	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:367:THR:HG22	1:K:368:LEU:H	1.56	0.71
1:S:276:HIS:CD2	1:S:352:PRO:HB3	2.25	0.71
1:S:367:THR:HG22	1:S:368:LEU:H	1.56	0.71
1:U:276:HIS:CD2	1:U:352:PRO:HB3	2.25	0.71
1:W:276:HIS:CD2	1:W:352:PRO:HB3	2.25	0.71
1:W:289:ASN:HD21	1:W:686:TYR:H	1.37	0.71
1:a:289:ASN:HD21	1:a:686:TYR:H	1.37	0.71
1:e:367:THR:HG22	1:e:368:LEU:H	1.56	0.71
1:k:276:HIS:CD2	1:k:352:PRO:HB3	2.25	0.71
1:m:367:THR:HG22	1:m:368:LEU:H	1.56	0.71
1:r:367:THR:HG22	1:r:368:LEU:H	1.56	0.71
1:t:276:HIS:CD2	1:t:352:PRO:HB3	2.25	0.71
1:w:367:THR:HG22	1:w:368:LEU:H	1.56	0.71
1:x:276:HIS:CD2	1:x:352:PRO:HB3	2.26	0.71
1:2:367:THR:HG22	1:2:368:LEU:H	1.56	0.71
1:4:367:THR:HG22	1:4:368:LEU:H	1.56	0.71
1:7:367:THR:HG22	1:7:368:LEU:H	1.56	0.71
1:D:367:THR:HG22	1:D:368:LEU:H	1.56	0.71
1:E:276:HIS:CD2	1:E:352:PRO:HB3	2.25	0.71
1:F:276:HIS:CD2	1:F:352:PRO:HB3	2.25	0.71
1:G:276:HIS:CD2	1:G:352:PRO:HB3	2.25	0.71
1:Y:367:THR:HG22	1:Y:368:LEU:H	1.56	0.71
1:c:367:THR:HG22	1:c:368:LEU:H	1.56	0.71
1:k:367:THR:HG22	1:k:368:LEU:H	1.56	0.71
1:r:276:HIS:CD2	1:r:352:PRO:HB3	2.25	0.71
1:s:276:HIS:CD2	1:s:352:PRO:HB3	2.25	0.71
1:6:276:HIS:CD2	1:6:352:PRO:HB3	2.25	0.71
1:L:276:HIS:CD2	1:L:352:PRO:HB3	2.25	0.71
1:T:289:ASN:HD21	1:T:686:TYR:H	1.37	0.71
1:a:276:HIS:CD2	1:a:352:PRO:HB3	2.26	0.71
1:b:289:ASN:HD21	1:b:686:TYR:H	1.37	0.71
1:d:367:THR:HG22	1:d:368:LEU:H	1.56	0.71
1:f:276:HIS:CD2	1:f:352:PRO:HB3	2.25	0.71
1:m:289:ASN:HD21	1:m:686:TYR:H	1.37	0.71
1:v:276:HIS:CD2	1:v:352:PRO:HB3	2.25	0.71
1:w:276:HIS:CD2	1:w:352:PRO:HB3	2.25	0.71
1:z:276:HIS:CD2	1:z:352:PRO:HB3	2.26	0.71
1:2:276:HIS:CD2	1:2:352:PRO:HB3	2.26	0.71
1:3:276:HIS:CD2	1:3:352:PRO:HB3	2.26	0.71
1:A:276:HIS:CD2	1:A:352:PRO:HB3	2.25	0.71
1:H:276:HIS:CD2	1:H:352:PRO:HB3	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:289:ASN:HD21	1:R:686:TYR:H	1.37	0.71
1:a:367:THR:HG22	1:a:368:LEU:H	1.56	0.71
1:p:367:THR:HG22	1:p:368:LEU:H	1.56	0.71
1:u:276:HIS:CD2	1:u:352:PRO:HB3	2.26	0.71
1:y:276:HIS:CD2	1:y:352:PRO:HB3	2.26	0.71
1:5:276:HIS:CD2	1:5:352:PRO:HB3	2.26	0.71
1:I:276:HIS:CD2	1:I:352:PRO:HB3	2.25	0.71
1:M:276:HIS:CD2	1:M:352:PRO:HB3	2.25	0.71
1:V:367:THR:HG22	1:V:368:LEU:H	1.56	0.71
1:b:276:HIS:CD2	1:b:352:PRO:HB3	2.26	0.71
1:d:276:HIS:CD2	1:d:352:PRO:HB3	2.26	0.71
1:3:367:THR:HG22	1:3:368:LEU:H	1.56	0.71
1:M:367:THR:HG22	1:M:368:LEU:H	1.56	0.70
1:f:289:ASN:HD21	1:f:686:TYR:H	1.38	0.70
1:h:276:HIS:CD2	1:h:352:PRO:HB3	2.25	0.70
1:m:276:HIS:CD2	1:m:352:PRO:HB3	2.26	0.70
1:n:367:THR:HG22	1:n:368:LEU:H	1.56	0.70
1:x:367:THR:HG22	1:x:368:LEU:H	1.56	0.70
1:7:289:ASN:HD21	1:7:686:TYR:H	1.37	0.70
1:H:367:THR:HG22	1:H:368:LEU:H	1.56	0.70
1:Q:367:THR:HG22	1:Q:368:LEU:H	1.56	0.70
1:Y:289:ASN:HD21	1:Y:686:TYR:H	1.37	0.70
1:h:367:THR:HG22	1:h:368:LEU:H	1.56	0.70
1:n:276:HIS:CD2	1:n:352:PRO:HB3	2.26	0.70
1:q:276:HIS:CD2	1:q:352:PRO:HB3	2.25	0.70
1:5:367:THR:HG22	1:5:368:LEU:H	1.56	0.70
1:A:367:THR:HG22	1:A:368:LEU:H	1.56	0.70
1:O:367:THR:HG22	1:O:368:LEU:H	1.56	0.70
1:R:276:HIS:CD2	1:R:352:PRO:HB3	2.26	0.70
1:T:276:HIS:CD2	1:T:352:PRO:HB3	2.26	0.70
1:K:276:HIS:CD2	1:K:352:PRO:HB3	2.26	0.70
1:N:276:HIS:CD2	1:N:352:PRO:HB3	2.25	0.70
1:q:289:ASN:HD21	1:q:686:TYR:H	1.37	0.70
1:y:289:ASN:HD21	1:y:686:TYR:H	1.37	0.70
1:P:367:THR:HG22	1:P:368:LEU:H	1.56	0.70
1:Z:276:HIS:CD2	1:Z:352:PRO:HB3	2.25	0.70
1:e:276:HIS:CD2	1:e:352:PRO:HB3	2.26	0.70
1:l:367:THR:HG22	1:l:368:LEU:H	1.56	0.70
1:t:367:THR:HG22	1:t:368:LEU:H	1.56	0.70
1:v:367:THR:HG22	1:v:368:LEU:H	1.56	0.70
1:y:367:THR:HG22	1:y:368:LEU:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:367:THR:HG22	1:G:368:LEU:H	1.56	0.70
1:c:276:HIS:CD2	1:c:352:PRO:HB3	2.26	0.70
1:i:276:HIS:CD2	1:i:352:PRO:HB3	2.25	0.70
1:1:289:ASN:HD21	1:1:686:TYR:H	1.38	0.70
1:4:276:HIS:CD2	1:4:352:PRO:HB3	2.26	0.70
1:8:276:HIS:CD2	1:8:352:PRO:HB3	2.25	0.70
1:B:289:ASN:HD21	1:B:686:TYR:H	1.37	0.70
1:F:289:ASN:HD21	1:F:686:TYR:H	1.37	0.70
1:j:367:THR:HG22	1:j:368:LEU:H	1.56	0.70
1:F:367:THR:HG22	1:F:368:LEU:H	1.56	0.70
1:Z:289:ASN:HD21	1:Z:686:TYR:H	1.37	0.70
1:C:289:ASN:HD21	1:C:686:TYR:H	1.37	0.70
1:X:367:THR:HG22	1:X:368:LEU:H	1.56	0.70
1:g:289:ASN:HD21	1:g:686:TYR:H	1.37	0.70
1:8:289:ASN:HD21	1:8:686:TYR:H	1.37	0.70
1:E:289:ASN:HD21	1:E:686:TYR:H	1.37	0.69
1:w:289:ASN:HD21	1:w:686:TYR:H	1.38	0.69
1:o:367:THR:HG22	1:o:368:LEU:H	1.56	0.69
1:K:289:ASN:HD21	1:K:686:TYR:H	1.37	0.69
1:L:367:THR:HG22	1:L:368:LEU:H	1.56	0.69
1:1:367:THR:HG22	1:1:368:LEU:H	1.56	0.69
1:R:367:THR:HG22	1:R:368:LEU:H	1.56	0.69
1:z:367:THR:HG22	1:z:368:LEU:H	1.56	0.69
1:E:544:LEU:HD22	1:E:710:ARG:HA	1.75	0.69
1:b:367:THR:HG22	1:b:368:LEU:H	1.56	0.69
1:f:652:ILE:HD12	1:z:357:VAL:HG12	1.74	0.69
1:q:357:VAL:HG12	1:y:652:ILE:HD12	1.75	0.69
1:4:289:ASN:HD21	1:4:686:TYR:H	1.37	0.69
1:F:652:ILE:HD12	1:R:357:VAL:HG12	1.75	0.69
1:G:544:LEU:HD22	1:G:710:ARG:HA	1.75	0.69
1:L:544:LEU:HD22	1:L:710:ARG:HA	1.75	0.69
1:Q:544:LEU:HD22	1:Q:710:ARG:HA	1.75	0.69
1:Z:367:THR:HG22	1:Z:368:LEU:H	1.56	0.69
1:q:367:THR:HG22	1:q:368:LEU:H	1.56	0.69
1:t:544:LEU:HD22	1:t:710:ARG:HA	1.75	0.69
1:w:544:LEU:HD22	1:w:710:ARG:HA	1.75	0.69
1:8:367:THR:HG22	1:8:368:LEU:H	1.56	0.69
1:B:367:THR:HG22	1:B:368:LEU:H	1.56	0.69
1:B:544:LEU:HD22	1:B:710:ARG:HA	1.75	0.69
1:P:544:LEU:HD22	1:P:710:ARG:HA	1.75	0.69
1:f:367:THR:HG22	1:f:368:LEU:H	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:544:LEU:HD22	1:i:710:ARG:HA	1.75	0.69
1:j:544:LEU:HD22	1:j:710:ARG:HA	1.75	0.69
1:l:544:LEU:HD22	1:l:710:ARG:HA	1.75	0.69
1:N:544:LEU:HD22	1:N:710:ARG:HA	1.75	0.69
1:v:544:LEU:HD22	1:v:710:ARG:HA	1.75	0.69
1:x:544:LEU:HD22	1:x:710:ARG:HA	1.75	0.69
1:z:544:LEU:HD22	1:z:710:ARG:HA	1.75	0.69
1:A:544:LEU:HD22	1:A:710:ARG:HA	1.75	0.68
1:C:367:THR:HG22	1:C:368:LEU:H	1.56	0.68
1:n:544:LEU:HD22	1:n:710:ARG:HA	1.75	0.68
1:4:544:LEU:HD22	1:4:710:ARG:HA	1.75	0.68
1:K:544:LEU:HD22	1:K:710:ARG:HA	1.75	0.68
1:X:544:LEU:HD22	1:X:710:ARG:HA	1.75	0.68
1:d:544:LEU:HD22	1:d:710:ARG:HA	1.75	0.68
1:g:367:THR:HG22	1:g:368:LEU:H	1.56	0.68
1:o:544:LEU:HD22	1:o:710:ARG:HA	1.75	0.68
1:C:544:LEU:HD22	1:C:710:ARG:HA	1.75	0.68
1:L:289:ASN:HD21	1:L:686:TYR:H	1.37	0.68
1:U:544:LEU:HD22	1:U:710:ARG:HA	1.75	0.68
1:f:544:LEU:HD22	1:f:710:ARG:HA	1.75	0.68
1:H:544:LEU:HD22	1:H:710:ARG:HA	1.75	0.68
1:b:544:LEU:HD22	1:b:710:ARG:HA	1.75	0.68
1:s:544:LEU:HD22	1:s:710:ARG:HA	1.75	0.68
1:z:289:ASN:HD21	1:z:686:TYR:H	1.37	0.68
1:5:544:LEU:HD22	1:5:710:ARG:HA	1.75	0.68
1:6:367:THR:HG22	1:6:368:LEU:H	1.56	0.68
1:M:544:LEU:HD22	1:M:710:ARG:HA	1.75	0.68
1:g:544:LEU:HD22	1:g:710:ARG:HA	1.75	0.68
1:h:544:LEU:HD22	1:h:710:ARG:HA	1.75	0.68
1:u:544:LEU:HD22	1:u:710:ARG:HA	1.75	0.68
1:F:544:LEU:HD22	1:F:710:ARG:HA	1.75	0.68
1:I:544:LEU:HD22	1:I:710:ARG:HA	1.75	0.68
1:J:544:LEU:HD22	1:J:710:ARG:HA	1.75	0.68
1:R:544:LEU:HD22	1:R:710:ARG:HA	1.75	0.68
1:W:367:THR:HG22	1:W:368:LEU:H	1.56	0.68
1:y:544:LEU:HD22	1:y:710:ARG:HA	1.75	0.68
1:D:544:LEU:HD22	1:D:710:ARG:HA	1.75	0.68
1:k:544:LEU:HD22	1:k:710:ARG:HA	1.75	0.68
1:q:544:LEU:HD22	1:q:710:ARG:HA	1.75	0.68
1:2:544:LEU:HD22	1:2:710:ARG:HA	1.75	0.68
1:7:544:LEU:HD22	1:7:710:ARG:HA	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:544:LEU:HD22	1:Y:710:ARG:HA	1.75	0.68
1:O:544:LEU:HD22	1:O:710:ARG:HA	1.75	0.68
1:Z:544:LEU:HD22	1:Z:710:ARG:HA	1.75	0.68
1:l:544:LEU:HD22	1:l:710:ARG:HA	1.75	0.68
1:8:544:LEU:HD22	1:8:710:ARG:HA	1.75	0.68
1:A:652:ILE:HD12	1:B:357:VAL:HG12	1.75	0.67
1:v:652:ILE:HD12	1:1:357:VAL:HG12	1.75	0.67
1:X:652:ILE:HD12	1:f:357:VAL:HG12	1.77	0.67
1:b:357:VAL:HG12	1:o:652:ILE:HD12	1.77	0.67
1:o:357:VAL:HG12	1:7:652:ILE:HD12	1.77	0.67
1:K:652:ILE:HD12	1:7:357:VAL:HG12	1.77	0.67
1:T:544:LEU:HD22	1:T:710:ARG:HA	1.75	0.67
1:X:357:VAL:HG12	1:Y:652:ILE:HD12	1.77	0.67
1:Y:357:VAL:HG12	1:4:652:ILE:HD12	1.77	0.67
1:m:544:LEU:HD22	1:m:710:ARG:HA	1.75	0.67
1:3:544:LEU:HD22	1:3:710:ARG:HA	1.75	0.67
1:M:652:ILE:HD12	1:c:357:VAL:HG12	1.77	0.67
1:a:544:LEU:HD22	1:a:710:ARG:HA	1.75	0.67
1:O:652:ILE:HD12	1:d:357:VAL:HG12	1.77	0.67
1:e:357:VAL:HG12	1:h:652:ILE:HD12	1.77	0.67
1:l:652:ILE:HD12	1:n:357:VAL:HG12	1.77	0.67
1:L:357:VAL:HG12	1:b:652:ILE:HD12	1.77	0.67
1:S:544:LEU:HD22	1:S:710:ARG:HA	1.75	0.66
1:W:544:LEU:HD22	1:W:710:ARG:HA	1.75	0.66
1:r:544:LEU:HD22	1:r:710:ARG:HA	1.75	0.66
1:6:544:LEU:HD22	1:6:710:ARG:HA	1.75	0.66
1:G:357:VAL:HG12	1:W:652:ILE:HD12	1.77	0.66
1:t:357:VAL:HG12	1:6:652:ILE:HD12	1.77	0.66
1:e:544:LEU:HD22	1:e:710:ARG:HA	1.75	0.66
1:p:544:LEU:HD22	1:p:710:ARG:HA	1.75	0.66
1:N:357:VAL:HG12	1:m:652:ILE:HD12	1.77	0.66
1:P:357:VAL:HG12	1:Q:652:ILE:HD12	1.77	0.66
1:V:544:LEU:HD22	1:V:710:ARG:HA	1.75	0.66
1:j:357:VAL:HG12	1:x:652:ILE:HD12	1.77	0.66
1:r:652:ILE:HD12	1:x:357:VAL:HG12	1.77	0.66
1:K:357:VAL:HG12	1:L:652:ILE:HD12	1.77	0.66
1:T:652:ILE:HD12	1:i:357:VAL:HG12	1.77	0.66
1:V:652:ILE:HD12	1:W:357:VAL:HG12	1.77	0.66
1:c:544:LEU:HD22	1:c:710:ARG:HA	1.75	0.66
1:Q:357:VAL:HG12	1:S:652:ILE:HD12	1.77	0.66
1:p:652:ILE:HD12	1:6:357:VAL:HG12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:652:ILE:HD12	1:D:357:VAL:HG12	1.77	0.66
1:O:357:VAL:HG12	1:P:652:ILE:HD12	1.77	0.66
1:g:652:ILE:HD12	1:k:357:VAL:HG12	1.77	0.66
1:J:357:VAL:HG12	1:a:652:ILE:HD12	1.77	0.66
1:T:357:VAL:HG12	1:U:652:ILE:HD12	1.77	0.66
1:j:652:ILE:HD12	1:l:357:VAL:HG12	1.77	0.66
1:D:652:ILE:HD12	1:E:357:VAL:HG12	1.77	0.66
1:H:357:VAL:HG12	1:I:652:ILE:HD12	1.77	0.66
1:Z:652:ILE:HD12	1:a:357:VAL:HG12	1.77	0.66
1:l:675:GLU:HG3	1:l:717:LEU:HD23	1.79	0.66
1:m:357:VAL:HG12	1:s:652:ILE:HD12	1.77	0.66
1:u:357:VAL:HG12	1:2:652:ILE:HD12	1.77	0.66
1:3:357:VAL:HG12	1:8:652:ILE:HD12	1.77	0.66
1:I:357:VAL:HG12	1:J:652:ILE:HD12	1.77	0.65
1:O:675:GLU:HG3	1:O:717:LEU:HD23	1.78	0.65
1:c:652:ILE:HD12	1:s:357:VAL:HG12	1.77	0.65
1:h:357:VAL:HG12	1:i:652:ILE:HD12	1.77	0.65
1:t:652:ILE:HD12	1:y:357:VAL:HG12	1.77	0.65
1:u:652:ILE:HD12	1:5:357:VAL:HG12	1.77	0.65
1:v:357:VAL:HG12	1:w:652:ILE:HD12	1.77	0.65
1:2:357:VAL:HG12	1:3:652:ILE:HD12	1.77	0.65
1:H:652:ILE:HD12	1:Z:357:VAL:HG12	1.77	0.65
1:M:357:VAL:HG12	1:N:652:ILE:HD12	1.77	0.65
1:R:675:GLU:HG3	1:R:717:LEU:HD23	1.79	0.65
1:U:357:VAL:HG12	1:e:652:ILE:HD12	1.77	0.65
1:V:675:GLU:HG3	1:V:717:LEU:HD23	1.79	0.65
1:Z:675:GLU:HG3	1:Z:717:LEU:HD23	1.79	0.65
1:b:675:GLU:HG3	1:b:717:LEU:HD23	1.79	0.65
1:f:675:GLU:HG3	1:f:717:LEU:HD23	1.79	0.65
1:k:652:ILE:HD12	1:w:357:VAL:HG12	1.77	0.65
1:K:675:GLU:HG3	1:K:717:LEU:HD23	1.79	0.65
1:p:675:GLU:HG3	1:p:717:LEU:HD23	1.79	0.65
1:4:675:GLU:HG3	1:4:717:LEU:HD23	1.79	0.65
1:5:652:ILE:HD12	1:8:357:VAL:HG12	1.77	0.65
1:5:675:GLU:HG3	1:5:717:LEU:HD23	1.78	0.65
1:8:675:GLU:HG3	1:8:717:LEU:HD23	1.79	0.65
1:A:357:VAL:HG12	1:E:652:ILE:HD12	1.77	0.65
1:F:357:VAL:HG12	1:G:652:ILE:HD12	1.77	0.65
1:H:675:GLU:HG3	1:H:717:LEU:HD23	1.78	0.65
1:q:675:GLU:HG3	1:q:717:LEU:HD23	1.79	0.65
1:D:675:GLU:HG3	1:D:717:LEU:HD23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:675:GLU:HG3	1:Y:717:LEU:HD23	1.78	0.65
1:k:675:GLU:HG3	1:k:717:LEU:HD23	1.79	0.65
1:3:675:GLU:HG3	1:3:717:LEU:HD23	1.79	0.65
1:A:675:GLU:HG3	1:A:717:LEU:HD23	1.78	0.65
1:E:675:GLU:HG3	1:E:717:LEU:HD23	1.79	0.65
1:a:675:GLU:HG3	1:a:717:LEU:HD23	1.78	0.65
1:w:675:GLU:HG3	1:w:717:LEU:HD23	1.79	0.65
1:7:675:GLU:HG3	1:7:717:LEU:HD23	1.78	0.65
1:L:675:GLU:HG3	1:L:717:LEU:HD23	1.78	0.65
1:v:675:GLU:HG3	1:v:717:LEU:HD23	1.78	0.65
1:z:652:ILE:HD12	1:4:357:VAL:HG12	1.78	0.65
1:z:675:GLU:HG3	1:z:717:LEU:HD23	1.79	0.65
1:N:675:GLU:HG3	1:N:717:LEU:HD23	1.79	0.64
1:n:675:GLU:HG3	1:n:717:LEU:HD23	1.79	0.64
1:u:675:GLU:HG3	1:u:717:LEU:HD23	1.79	0.64
1:I:675:GLU:HG3	1:I:717:LEU:HD23	1.79	0.64
1:d:675:GLU:HG3	1:d:717:LEU:HD23	1.78	0.64
1:i:675:GLU:HG3	1:i:717:LEU:HD23	1.78	0.64
1:M:675:GLU:HG3	1:M:717:LEU:HD23	1.79	0.64
1:W:675:GLU:HG3	1:W:717:LEU:HD23	1.78	0.64
1:n:652:ILE:HD12	1:r:357:VAL:HG12	1.77	0.64
1:F:302:LYS:HB2	1:F:665:THR:HG22	1.80	0.64
1:S:357:VAL:HG12	1:d:652:ILE:HD12	1.77	0.64
1:Z:302:LYS:HB2	1:Z:665:THR:HG22	1.80	0.64
1:e:302:LYS:HB2	1:e:665:THR:HG22	1.80	0.64
1:h:675:GLU:HG3	1:h:717:LEU:HD23	1.79	0.64
1:6:675:GLU:HG3	1:6:717:LEU:HD23	1.79	0.64
1:8:302:LYS:HB2	1:8:665:THR:HG22	1.80	0.64
1:c:302:LYS:HB2	1:c:665:THR:HG22	1.80	0.64
1:g:357:VAL:HG12	1:l:652:ILE:HD12	1.79	0.64
1:t:675:GLU:HG3	1:t:717:LEU:HD23	1.78	0.64
1:y:302:LYS:HB2	1:y:665:THR:HG22	1.80	0.64
1:C:302:LYS:HB2	1:C:665:THR:HG22	1.80	0.64
1:G:675:GLU:HG3	1:G:717:LEU:HD23	1.79	0.64
1:g:302:LYS:HB2	1:g:665:THR:HG22	1.80	0.64
1:k:302:LYS:HB2	1:k:665:THR:HG22	1.80	0.64
1:q:428:ASN:H	1:r:346:HIS:CE1	2.16	0.64
1:D:302:LYS:HB2	1:D:665:THR:HG22	1.80	0.64
1:e:675:GLU:HG3	1:e:717:LEU:HD23	1.79	0.64
1:l:302:LYS:HB2	1:l:665:THR:HG22	1.80	0.64
1:x:675:GLU:HG3	1:x:717:LEU:HD23	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:428:ASN:H	1:1:346:HIS:CE1	2.15	0.64
1:B:652:ILE:HD12	1:C:357:VAL:HG12	1.79	0.64
1:O:302:LYS:HB2	1:O:665:THR:HG22	1.80	0.64
1:R:428:ASN:H	1:S:346:HIS:CE1	2.16	0.64
1:T:675:GLU:HG3	1:T:717:LEU:HD23	1.79	0.64
1:c:675:GLU:HG3	1:c:717:LEU:HD23	1.79	0.64
1:d:302:LYS:HB2	1:d:665:THR:HG22	1.80	0.64
1:f:302:LYS:HB2	1:f:665:THR:HG22	1.80	0.64
1:j:675:GLU:HG3	1:j:717:LEU:HD23	1.78	0.64
1:m:675:GLU:HG3	1:m:717:LEU:HD23	1.79	0.64
1:B:302:LYS:HB2	1:B:665:THR:HG22	1.80	0.64
1:P:675:GLU:HG3	1:P:717:LEU:HD23	1.78	0.64
1:Q:675:GLU:HG3	1:Q:717:LEU:HD23	1.79	0.64
1:R:302:LYS:HB2	1:R:665:THR:HG22	1.80	0.64
1:S:675:GLU:HG3	1:S:717:LEU:HD23	1.79	0.64
1:U:675:GLU:HG3	1:U:717:LEU:HD23	1.78	0.64
1:b:302:LYS:HB2	1:b:665:THR:HG22	1.80	0.64
1:q:302:LYS:HB2	1:q:665:THR:HG22	1.80	0.64
1:r:675:GLU:HG3	1:r:717:LEU:HD23	1.79	0.64
1:s:675:GLU:HG3	1:s:717:LEU:HD23	1.78	0.64
1:x:302:LYS:HB2	1:x:665:THR:HG22	1.80	0.64
1:H:302:LYS:HB2	1:H:665:THR:HG22	1.80	0.64
1:n:302:LYS:HB2	1:n:665:THR:HG22	1.80	0.64
1:1:302:LYS:HB2	1:1:665:THR:HG22	1.80	0.64
1:Q:302:LYS:HB2	1:Q:665:THR:HG22	1.80	0.63
1:z:346:HIS:CE1	1:2:428:ASN:H	2.16	0.63
1:z:596:ASP:OD1	1:z:597:ILE:N	2.32	0.63
1:2:675:GLU:HG3	1:2:717:LEU:HD23	1.78	0.63
1:5:302:LYS:HB2	1:5:665:THR:HG22	1.80	0.63
1:D:596:ASP:OD1	1:D:597:ILE:N	2.32	0.63
1:J:675:GLU:HG3	1:J:717:LEU:HD23	1.79	0.63
1:L:596:ASP:OD1	1:L:597:ILE:N	2.32	0.63
1:W:596:ASP:OD1	1:W:597:ILE:N	2.32	0.63
1:a:596:ASP:OD1	1:a:597:ILE:N	2.32	0.63
1:b:596:ASP:OD1	1:b:597:ILE:N	2.32	0.63
1:f:596:ASP:OD1	1:f:597:ILE:N	2.32	0.63
1:k:596:ASP:OD1	1:k:597:ILE:N	2.32	0.63
1:3:596:ASP:OD1	1:3:597:ILE:N	2.32	0.63
1:6:596:ASP:OD1	1:6:597:ILE:N	2.32	0.63
1:B:675:GLU:HG3	1:B:717:LEU:HD23	1.79	0.63
1:M:596:ASP:OD1	1:M:597:ILE:N	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:596:ASP:OD1	1:n:597:ILE:N	2.32	0.63
1:r:596:ASP:OD1	1:r:597:ILE:N	2.32	0.63
1:A:596:ASP:OD1	1:A:597:ILE:N	2.32	0.63
1:M:302:LYS:HB2	1:M:665:THR:HG22	1.80	0.63
1:N:367:THR:HG21	1:N:384:ALA:H	1.64	0.63
1:S:596:ASP:OD1	1:S:597:ILE:N	2.32	0.63
1:d:596:ASP:OD1	1:d:597:ILE:N	2.32	0.63
1:h:302:LYS:HB2	1:h:665:THR:HG22	1.80	0.63
1:h:596:ASP:OD1	1:h:597:ILE:N	2.32	0.63
1:u:302:LYS:HB2	1:u:665:THR:HG22	1.80	0.63
1:z:450:LYS:NZ	1:1:347:GLU:OE2	2.22	0.63
1:1:675:GLU:HG3	1:1:717:LEU:HD23	1.78	0.63
1:I:302:LYS:HB2	1:I:665:THR:HG22	1.80	0.63
1:J:367:THR:HG21	1:J:384:ALA:H	1.64	0.63
1:O:596:ASP:OD1	1:O:597:ILE:N	2.32	0.63
1:S:302:LYS:HB2	1:S:665:THR:HG22	1.80	0.63
1:X:675:GLU:HG3	1:X:717:LEU:HD23	1.79	0.63
1:Y:367:THR:HG21	1:Y:384:ALA:H	1.64	0.63
1:g:675:GLU:HG3	1:g:717:LEU:HD23	1.79	0.63
1:i:367:THR:HG21	1:i:384:ALA:H	1.64	0.63
1:l:596:ASP:OD1	1:l:597:ILE:N	2.32	0.63
1:r:302:LYS:HB2	1:r:665:THR:HG22	1.80	0.63
1:v:596:ASP:OD1	1:v:597:ILE:N	2.32	0.63
1:w:367:THR:HG21	1:w:384:ALA:H	1.64	0.63
1:4:302:LYS:HB2	1:4:665:THR:HG22	1.80	0.63
1:7:367:THR:HG21	1:7:384:ALA:H	1.64	0.63
1:B:367:THR:HG21	1:B:384:ALA:H	1.64	0.63
1:C:675:GLU:HG3	1:C:717:LEU:HD23	1.79	0.63
1:E:367:THR:HG21	1:E:384:ALA:H	1.64	0.63
1:E:596:ASP:OD1	1:E:597:ILE:N	2.32	0.63
1:K:302:LYS:HB2	1:K:665:THR:HG22	1.80	0.63
1:Y:596:ASP:OD1	1:Y:597:ILE:N	2.32	0.63
1:e:596:ASP:OD1	1:e:597:ILE:N	2.32	0.63
1:o:675:GLU:HG3	1:o:717:LEU:HD23	1.79	0.63
1:s:596:ASP:OD1	1:s:597:ILE:N	2.32	0.63
1:v:302:LYS:HB2	1:v:665:THR:HG22	1.80	0.63
1:w:596:ASP:OD1	1:w:597:ILE:N	2.32	0.63
1:1:367:THR:HG21	1:1:384:ALA:H	1.64	0.63
1:2:367:THR:HG21	1:2:384:ALA:H	1.64	0.63
1:3:302:LYS:HB2	1:3:665:THR:HG22	1.80	0.63
1:A:346:HIS:CE1	1:I:428:ASN:H	2.17	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:596:ASP:OD1	1:I:597:ILE:N	2.32	0.63
1:K:450:LYS:NZ	1:a:347:GLU:OE2	2.26	0.63
1:N:302:LYS:HB2	1:N:665:THR:HG22	1.80	0.63
1:P:596:ASP:OD1	1:P:597:ILE:N	2.32	0.63
1:a:302:LYS:HB2	1:a:665:THR:HG22	1.80	0.63
1:c:596:ASP:OD1	1:c:597:ILE:N	2.32	0.63
1:i:302:LYS:HB2	1:i:665:THR:HG22	1.80	0.63
1:j:596:ASP:OD1	1:j:597:ILE:N	2.32	0.63
1:s:302:LYS:HB2	1:s:665:THR:HG22	1.80	0.63
1:u:428:ASN:H	1:v:346:HIS:CE1	2.17	0.63
1:4:596:ASP:OD1	1:4:597:ILE:N	2.32	0.63
1:7:596:ASP:OD1	1:7:597:ILE:N	2.32	0.63
1:A:302:LYS:HB2	1:A:665:THR:HG22	1.80	0.63
1:D:346:HIS:CE1	1:P:428:ASN:H	2.17	0.63
1:F:675:GLU:HG3	1:F:717:LEU:HD23	1.78	0.63
1:G:596:ASP:OD1	1:G:597:ILE:N	2.32	0.63
1:H:596:ASP:OD1	1:H:597:ILE:N	2.32	0.63
1:R:367:THR:HG21	1:R:384:ALA:H	1.64	0.63
1:U:596:ASP:OD1	1:U:597:ILE:N	2.32	0.63
1:V:428:ASN:H	1:e:346:HIS:CE1	2.17	0.63
1:X:302:LYS:HB2	1:X:665:THR:HG22	1.80	0.63
1:a:367:THR:HG21	1:a:384:ALA:H	1.64	0.63
1:c:346:HIS:CE1	1:p:428:ASN:H	2.17	0.63
1:h:367:THR:HG21	1:h:384:ALA:H	1.64	0.63
1:m:367:THR:HG21	1:m:384:ALA:H	1.64	0.63
1:t:596:ASP:OD1	1:t:597:ILE:N	2.32	0.63
1:u:596:ASP:OD1	1:u:597:ILE:N	2.32	0.63
1:3:367:THR:HG21	1:3:384:ALA:H	1.64	0.63
1:G:428:ASN:H	1:I:346:HIS:CE1	2.17	0.63
1:J:274:ARG:HH11	1:J:276:HIS:HE1	1.47	0.63
1:J:302:LYS:HB2	1:J:665:THR:HG22	1.80	0.63
1:K:367:THR:HG21	1:K:384:ALA:H	1.64	0.63
1:K:596:ASP:OD1	1:K:597:ILE:N	2.32	0.63
1:M:367:THR:HG21	1:M:384:ALA:H	1.64	0.63
1:T:367:THR:HG21	1:T:384:ALA:H	1.64	0.63
1:U:302:LYS:HB2	1:U:665:THR:HG22	1.80	0.63
1:V:302:LYS:HB2	1:V:665:THR:HG22	1.80	0.63
1:j:428:ASN:H	1:k:346:HIS:CE1	2.17	0.63
1:t:428:ASN:H	1:u:346:HIS:CE1	2.17	0.63
1:y:675:GLU:HG3	1:y:717:LEU:HD23	1.79	0.63
1:2:274:ARG:HH11	1:2:276:HIS:HE1	1.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:596:ASP:OD1	1:5:597:ILE:N	2.32	0.63
1:8:274:ARG:HH11	1:8:276:HIS:HE1	1.47	0.63
1:B:428:ASN:H	1:J:346:HIS:CE1	2.16	0.62
1:D:428:ASN:H	1:N:346:HIS:CE1	2.17	0.62
1:O:428:ASN:H	1:m:346:HIS:CE1	2.17	0.62
1:T:346:HIS:CE1	1:l:428:ASN:H	2.17	0.62
1:T:428:ASN:H	1:d:346:HIS:CE1	2.17	0.62
1:Y:302:LYS:HB2	1:Y:665:THR:HG22	1.80	0.62
1:i:346:HIS:CE1	1:k:428:ASN:H	2.17	0.62
1:m:428:ASN:H	1:n:346:HIS:CE1	2.17	0.62
1:p:302:LYS:HB2	1:p:665:THR:HG22	1.80	0.62
1:q:367:THR:HG21	1:q:384:ALA:H	1.64	0.62
1:u:274:ARG:HH11	1:u:276:HIS:HE1	1.47	0.62
1:3:347:GLU:OE2	1:4:450:LYS:NZ	2.26	0.62
1:4:367:THR:HG21	1:4:384:ALA:H	1.64	0.62
1:6:302:LYS:HB2	1:6:665:THR:HG22	1.80	0.62
1:7:302:LYS:HB2	1:7:665:THR:HG22	1.80	0.62
1:8:596:ASP:OD1	1:8:597:ILE:N	2.32	0.62
1:C:596:ASP:OD1	1:C:597:ILE:N	2.32	0.62
1:H:346:HIS:CE1	1:Y:428:ASN:H	2.17	0.62
1:I:274:ARG:HH11	1:I:276:HIS:HE1	1.47	0.62
1:R:652:ILE:HD12	1:V:357:VAL:HG12	1.79	0.62
1:Y:274:ARG:HD2	1:Y:276:HIS:CE1	2.35	0.62
1:Z:274:ARG:HH11	1:Z:276:HIS:HE1	1.47	0.62
1:Z:596:ASP:OD1	1:Z:597:ILE:N	2.32	0.62
1:a:428:ASN:H	1:8:346:HIS:CE1	2.17	0.62
1:j:274:ARG:HH11	1:j:276:HIS:HE1	1.47	0.62
1:l:274:ARG:HH11	1:l:276:HIS:HE1	1.47	0.62
1:o:302:LYS:HB2	1:o:665:THR:HG22	1.80	0.62
1:1:428:ASN:H	1:2:346:HIS:CE1	2.16	0.62
1:2:302:LYS:HB2	1:2:665:THR:HG22	1.80	0.62
1:5:274:ARG:HH11	1:5:276:HIS:HE1	1.47	0.62
1:5:346:HIS:CE1	1:7:428:ASN:H	2.17	0.62
1:5:367:THR:HG21	1:5:384:ALA:H	1.64	0.62
1:6:274:ARG:HD2	1:6:276:HIS:CE1	2.35	0.62
1:B:274:ARG:HD2	1:B:276:HIS:CE1	2.35	0.62
1:B:596:ASP:OD1	1:B:597:ILE:N	2.32	0.62
1:I:274:ARG:HD2	1:I:276:HIS:CE1	2.35	0.62
1:I:367:THR:HG21	1:I:384:ALA:H	1.64	0.62
1:J:596:ASP:OD1	1:J:597:ILE:N	2.32	0.62
1:K:346:HIS:CE1	1:8:428:ASN:H	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:274:ARG:HD2	1:L:276:HIS:CE1	2.35	0.62
1:O:274:ARG:HH11	1:O:276:HIS:HE1	1.47	0.62
1:P:274:ARG:HH11	1:P:276:HIS:HE1	1.47	0.62
1:P:302:LYS:HB2	1:P:665:THR:HG22	1.80	0.62
1:R:274:ARG:HD2	1:R:276:HIS:CE1	2.35	0.62
1:U:367:THR:HG21	1:U:384:ALA:H	1.64	0.62
1:V:596:ASP:OD1	1:V:597:ILE:N	2.32	0.62
1:W:274:ARG:HD2	1:W:276:HIS:CE1	2.35	0.62
1:W:302:LYS:HB2	1:W:665:THR:HG22	1.80	0.62
1:X:274:ARG:HD2	1:X:276:HIS:CE1	2.35	0.62
1:Z:346:HIS:CE1	1:3:428:ASN:H	2.17	0.62
1:g:596:ASP:OD1	1:g:597:ILE:N	2.32	0.62
1:o:274:ARG:HD2	1:o:276:HIS:CE1	2.35	0.62
1:p:596:ASP:OD1	1:p:597:ILE:N	2.32	0.62
1:q:274:ARG:HD2	1:q:276:HIS:CE1	2.35	0.62
1:s:367:THR:HG21	1:s:384:ALA:H	1.64	0.62
1:t:367:THR:HG21	1:t:384:ALA:H	1.64	0.62
1:u:274:ARG:HD2	1:u:276:HIS:CE1	2.35	0.62
1:z:274:ARG:HD2	1:z:276:HIS:CE1	2.35	0.62
1:z:302:LYS:HB2	1:z:665:THR:HG22	1.80	0.62
1:7:274:ARG:HD2	1:7:276:HIS:CE1	2.35	0.62
1:F:346:HIS:CE1	1:Q:428:ASN:H	2.17	0.62
1:G:367:THR:HG21	1:G:384:ALA:H	1.64	0.62
1:H:274:ARG:HH11	1:H:276:HIS:HE1	1.47	0.62
1:H:367:THR:HG21	1:H:384:ALA:H	1.64	0.62
1:J:274:ARG:HD2	1:J:276:HIS:CE1	2.35	0.62
1:L:302:LYS:HB2	1:L:665:THR:HG22	1.80	0.62
1:R:346:HIS:CE1	1:U:428:ASN:H	2.18	0.62
1:T:302:LYS:HB2	1:T:665:THR:HG22	1.80	0.62
1:Z:428:ASN:H	1:4:346:HIS:CE1	2.17	0.62
1:a:274:ARG:HD2	1:a:276:HIS:CE1	2.34	0.62
1:b:274:ARG:HD2	1:b:276:HIS:CE1	2.35	0.62
1:d:367:THR:HG21	1:d:384:ALA:H	1.64	0.62
1:m:302:LYS:HB2	1:m:665:THR:HG22	1.80	0.62
1:x:428:ASN:H	1:y:346:HIS:CE1	2.17	0.62
1:1:274:ARG:HD2	1:1:276:HIS:CE1	2.35	0.62
1:2:596:ASP:OD1	1:2:597:ILE:N	2.32	0.62
1:6:274:ARG:HH11	1:6:276:HIS:HE1	1.47	0.62
1:E:302:LYS:HB2	1:E:665:THR:HG22	1.80	0.62
1:L:367:THR:HG21	1:L:384:ALA:H	1.64	0.62
1:R:596:ASP:OD1	1:R:597:ILE:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:346:HIS:CE1	1:X:428:ASN:H	2.17	0.62
1:a:274:ARG:HH11	1:a:276:HIS:HE1	1.47	0.62
1:d:274:ARG:HH11	1:d:276:HIS:HE1	1.47	0.62
1:f:274:ARG:HD2	1:f:276:HIS:CE1	2.35	0.62
1:g:274:ARG:HD2	1:g:276:HIS:CE1	2.35	0.62
1:j:302:LYS:HB2	1:j:665:THR:HG22	1.80	0.62
1:n:274:ARG:HD2	1:n:276:HIS:CE1	2.35	0.62
1:o:367:THR:HG21	1:o:384:ALA:H	1.64	0.62
1:o:428:ASN:H	1:p:346:HIS:CE1	2.17	0.62
1:p:357:VAL:HG12	1:q:652:ILE:HD12	1.79	0.62
1:p:367:THR:HG21	1:p:384:ALA:H	1.64	0.62
1:q:346:HIS:CE1	1:s:428:ASN:H	2.18	0.62
1:q:596:ASP:OD1	1:q:597:ILE:N	2.32	0.62
1:u:367:THR:HG21	1:u:384:ALA:H	1.64	0.62
1:w:346:HIS:CE1	1:y:428:ASN:H	2.17	0.62
1:1:596:ASP:OD1	1:1:597:ILE:N	2.32	0.62
1:3:274:ARG:HH11	1:3:276:HIS:HE1	1.47	0.62
1:C:274:ARG:HD2	1:C:276:HIS:CE1	2.35	0.62
1:D:367:THR:HG21	1:D:384:ALA:H	1.64	0.62
1:E:346:HIS:CE1	1:F:428:ASN:H	2.17	0.62
1:F:596:ASP:OD1	1:F:597:ILE:N	2.32	0.62
1:J:428:ASN:H	1:L:346:HIS:CE1	2.18	0.62
1:M:274:ARG:HD2	1:M:276:HIS:CE1	2.35	0.62
1:N:274:ARG:HD2	1:N:276:HIS:CE1	2.35	0.62
1:S:367:THR:HG21	1:S:384:ALA:H	1.64	0.62
1:S:428:ASN:H	1:U:346:HIS:CE1	2.18	0.62
1:V:367:THR:HG21	1:V:384:ALA:H	1.64	0.62
1:W:274:ARG:HH11	1:W:276:HIS:HE1	1.47	0.62
1:X:367:THR:HG21	1:X:384:ALA:H	1.64	0.62
1:d:274:ARG:HD2	1:d:276:HIS:CE1	2.35	0.62
1:h:274:ARG:HD2	1:h:276:HIS:CE1	2.35	0.62
1:i:274:ARG:HD2	1:i:276:HIS:CE1	2.35	0.62
1:i:428:ASN:H	1:j:346:HIS:CE1	2.17	0.62
1:m:596:ASP:OD1	1:m:597:ILE:N	2.32	0.62
1:r:274:ARG:HH11	1:r:276:HIS:HE1	1.47	0.62
1:r:367:THR:HG21	1:r:384:ALA:H	1.64	0.62
1:r:428:ASN:H	1:s:346:HIS:CE1	2.18	0.62
1:v:367:THR:HG21	1:v:384:ALA:H	1.64	0.62
1:y:596:ASP:OD1	1:y:597:ILE:N	2.32	0.62
1:z:367:THR:HG21	1:z:384:ALA:H	1.64	0.62
1:2:274:ARG:HD2	1:2:276:HIS:CE1	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:274:ARG:HD2	1:3:276:HIS:CE1	2.35	0.62
1:4:274:ARG:HH11	1:4:276:HIS:HE1	1.47	0.62
1:5:274:ARG:HD2	1:5:276:HIS:CE1	2.35	0.62
1:8:274:ARG:HD2	1:8:276:HIS:CE1	2.35	0.62
1:B:274:ARG:HH11	1:B:276:HIS:HE1	1.47	0.62
1:H:274:ARG:HD2	1:H:276:HIS:CE1	2.35	0.62
1:H:428:ASN:H	1:W:346:HIS:CE1	2.17	0.62
1:K:274:ARG:HH11	1:K:276:HIS:HE1	1.47	0.62
1:N:428:ASN:H	1:P:346:HIS:CE1	2.17	0.62
1:N:596:ASP:OD1	1:N:597:ILE:N	2.32	0.62
1:O:346:HIS:CE1	1:n:428:ASN:H	2.17	0.62
1:S:274:ARG:HD2	1:S:276:HIS:CE1	2.35	0.62
1:d:428:ASN:H	1:l:346:HIS:CE1	2.17	0.62
1:i:596:ASP:OD1	1:i:597:ILE:N	2.32	0.62
1:k:367:THR:HG21	1:k:384:ALA:H	1.64	0.62
1:n:274:ARG:HH11	1:n:276:HIS:HE1	1.47	0.62
1:n:367:THR:HG21	1:n:384:ALA:H	1.64	0.62
1:r:274:ARG:HD2	1:r:276:HIS:CE1	2.35	0.62
1:w:274:ARG:HH11	1:w:276:HIS:HE1	1.47	0.62
1:w:302:LYS:HB2	1:w:665:THR:HG22	1.80	0.62
1:x:367:THR:HG21	1:x:384:ALA:H	1.64	0.62
1:1:274:ARG:HH11	1:1:276:HIS:HE1	1.47	0.62
1:A:367:THR:HG21	1:A:384:ALA:H	1.64	0.62
1:G:274:ARG:HD2	1:G:276:HIS:CE1	2.35	0.62
1:Q:367:THR:HG21	1:Q:384:ALA:H	1.64	0.62
1:Q:596:ASP:OD1	1:Q:597:ILE:N	2.32	0.62
1:S:274:ARG:HH11	1:S:276:HIS:HE1	1.47	0.62
1:T:596:ASP:OD1	1:T:597:ILE:N	2.32	0.62
1:Z:274:ARG:HD2	1:Z:276:HIS:CE1	2.35	0.62
1:k:274:ARG:HD2	1:k:276:HIS:CE1	2.35	0.62
1:p:274:ARG:HH11	1:p:276:HIS:HE1	1.47	0.62
1:p:274:ARG:HD2	1:p:276:HIS:CE1	2.35	0.62
1:x:596:ASP:OD1	1:x:597:ILE:N	2.32	0.62
1:y:274:ARG:HD2	1:y:276:HIS:CE1	2.35	0.62
1:5:428:ASN:H	1:6:346:HIS:CE1	2.17	0.62
1:6:428:ASN:H	1:7:346:HIS:CE1	2.17	0.62
1:B:346:HIS:CE1	1:L:428:ASN:H	2.18	0.62
1:D:274:ARG:HD2	1:D:276:HIS:CE1	2.35	0.62
1:E:274:ARG:HH11	1:E:276:HIS:HE1	1.47	0.62
1:F:274:ARG:HD2	1:F:276:HIS:CE1	2.35	0.62
1:V:274:ARG:HH11	1:V:276:HIS:HE1	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:274:ARG:HD2	1:m:276:HIS:CE1	2.35	0.62
1:t:274:ARG:HD2	1:t:276:HIS:CE1	2.35	0.62
1:8:367:THR:HG21	1:8:384:ALA:H	1.64	0.62
1:V:274:ARG:HD2	1:V:276:HIS:CE1	2.35	0.62
1:W:428:ASN:H	1:Y:346:HIS:CE1	2.17	0.62
1:X:596:ASP:OD1	1:X:597:ILE:N	2.32	0.62
1:c:428:ASN:H	1:o:346:HIS:CE1	2.17	0.62
1:t:302:LYS:HB2	1:t:665:THR:HG22	1.80	0.62
1:t:346:HIS:CE1	1:v:428:ASN:H	2.17	0.62
1:w:274:ARG:HD2	1:w:276:HIS:CE1	2.34	0.62
1:G:302:LYS:HB2	1:G:665:THR:HG22	1.80	0.61
1:T:274:ARG:HD2	1:T:276:HIS:CE1	2.35	0.61
1:W:367:THR:HG21	1:W:384:ALA:H	1.64	0.61
1:X:346:HIS:CE1	1:e:428:ASN:H	2.17	0.61
1:Z:367:THR:HG21	1:Z:384:ALA:H	1.64	0.61
1:c:367:THR:HG21	1:c:384:ALA:H	1.64	0.61
1:l:367:THR:HG21	1:l:384:ALA:H	1.64	0.61
1:o:596:ASP:OD1	1:o:597:ILE:N	2.32	0.61
1:y:367:THR:HG21	1:y:384:ALA:H	1.64	0.61
1:6:367:THR:HG21	1:6:384:ALA:H	1.64	0.61
1:A:428:ASN:H	1:G:346:HIS:CE1	2.17	0.61
1:F:367:THR:HG21	1:F:384:ALA:H	1.64	0.61
1:G:274:ARG:HH11	1:G:276:HIS:HE1	1.47	0.61
1:O:367:THR:HG21	1:O:384:ALA:H	1.64	0.61
1:e:367:THR:HG21	1:e:384:ALA:H	1.64	0.61
1:f:346:HIS:CE1	1:g:428:ASN:H	2.17	0.61
1:C:428:ASN:H	1:b:346:HIS:CE1	2.17	0.61
1:K:428:ASN:H	1:a:346:HIS:CE1	2.17	0.61
1:P:367:THR:HG21	1:P:384:ALA:H	1.64	0.61
1:t:274:ARG:HH11	1:t:276:HIS:HE1	1.47	0.61
1:x:274:ARG:HH11	1:x:276:HIS:HE1	1.47	0.61
1:E:274:ARG:HD2	1:E:276:HIS:CE1	2.35	0.61
1:K:274:ARG:HD2	1:K:276:HIS:CE1	2.35	0.61
1:L:274:ARG:HH11	1:L:276:HIS:HE1	1.47	0.61
1:P:274:ARG:HD2	1:P:276:HIS:CE1	2.35	0.61
1:c:274:ARG:HD2	1:c:276:HIS:CE1	2.35	0.61
1:j:274:ARG:HD2	1:j:276:HIS:CE1	2.35	0.61
1:z:274:ARG:HH11	1:z:276:HIS:HE1	1.47	0.61
1:3:346:HIS:CE1	1:4:428:ASN:H	2.17	0.61
1:M:346:HIS:CE1	1:b:428:ASN:H	2.17	0.61
1:Q:274:ARG:HH11	1:Q:276:HIS:HE1	1.47	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:274:ARG:HD2	1:e:276:HIS:CE1	2.35	0.61
1:j:367:THR:HG21	1:j:384:ALA:H	1.64	0.61
1:R:274:ARG:HH11	1:R:276:HIS:HE1	1.47	0.61
1:U:274:ARG:HD2	1:U:276:HIS:CE1	2.35	0.61
1:f:428:ASN:H	1:h:346:HIS:CE1	2.17	0.61
1:l:274:ARG:HD2	1:l:276:HIS:CE1	2.35	0.61
1:4:274:ARG:HD2	1:4:276:HIS:CE1	2.35	0.61
1:A:274:ARG:HD2	1:A:276:HIS:CE1	2.35	0.61
1:c:274:ARG:HH11	1:c:276:HIS:HE1	1.47	0.61
1:q:274:ARG:HH11	1:q:276:HIS:HE1	1.47	0.61
1:s:274:ARG:HD2	1:s:276:HIS:CE1	2.35	0.61
1:v:274:ARG:HD2	1:v:276:HIS:CE1	2.35	0.61
1:w:428:ASN:H	1:x:346:HIS:CE1	2.17	0.61
1:B:586:VAL:HA	1:B:590:MET:HE1	1.83	0.61
1:C:346:HIS:CE1	1:M:428:ASN:H	2.17	0.61
1:D:341:ILE:H	1:D:631:GLN:HE22	1.49	0.61
1:N:274:ARG:HH11	1:N:276:HIS:HE1	1.47	0.61
1:O:274:ARG:HD2	1:O:276:HIS:CE1	2.35	0.61
1:V:586:VAL:HA	1:V:590:MET:HE1	1.83	0.61
1:Y:586:VAL:HA	1:Y:590:MET:HE1	1.83	0.61
1:a:586:VAL:HA	1:a:590:MET:HE1	1.83	0.61
1:b:586:VAL:HA	1:b:590:MET:HE1	1.83	0.61
1:e:341:ILE:H	1:e:631:GLN:HE22	1.49	0.61
1:g:346:HIS:CE1	1:h:428:ASN:H	2.17	0.61
1:h:586:VAL:HA	1:h:590:MET:HE1	1.83	0.61
1:p:586:VAL:HA	1:p:590:MET:HE1	1.83	0.61
1:y:274:ARG:HH11	1:y:276:HIS:HE1	1.47	0.61
1:7:586:VAL:HA	1:7:590:MET:HE1	1.83	0.61
1:E:428:ASN:H	1:Q:346:HIS:CE1	2.17	0.61
1:M:586:VAL:HA	1:M:590:MET:HE1	1.83	0.61
1:Y:341:ILE:H	1:Y:631:GLN:HE22	1.49	0.61
1:c:341:ILE:H	1:c:631:GLN:HE22	1.49	0.61
1:f:274:ARG:HH11	1:f:276:HIS:HE1	1.47	0.61
1:f:586:VAL:HA	1:f:590:MET:HE1	1.83	0.61
1:k:341:ILE:H	1:k:631:GLN:HE22	1.49	0.61
1:v:274:ARG:HH11	1:v:276:HIS:HE1	1.47	0.61
1:1:586:VAL:HA	1:1:590:MET:HE1	1.83	0.61
1:7:341:ILE:H	1:7:631:GLN:HE22	1.49	0.61
1:F:274:ARG:HH11	1:F:276:HIS:HE1	1.47	0.61
1:L:586:VAL:HA	1:L:590:MET:HE1	1.83	0.61
1:X:586:VAL:HA	1:X:590:MET:HE1	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:274:ARG:HH11	1:b:276:HIS:HE1	1.47	0.61
1:e:274:ARG:HH11	1:e:276:HIS:HE1	1.47	0.61
1:f:367:THR:HG21	1:f:384:ALA:H	1.64	0.61
1:g:367:THR:HG21	1:g:384:ALA:H	1.64	0.61
1:i:274:ARG:HH11	1:i:276:HIS:HE1	1.47	0.61
1:s:274:ARG:HH11	1:s:276:HIS:HE1	1.47	0.61
1:3:544:LEU:HB3	1:3:711:THR:HG23	1.83	0.61
1:3:586:VAL:HA	1:3:590:MET:HE1	1.83	0.61
1:A:274:ARG:HH11	1:A:276:HIS:HE1	1.47	0.60
1:G:544:LEU:HB3	1:G:711:THR:HG23	1.84	0.60
1:K:544:LEU:HB3	1:K:711:THR:HG23	1.83	0.60
1:N:586:VAL:HA	1:N:590:MET:HE1	1.83	0.60
1:U:274:ARG:HH11	1:U:276:HIS:HE1	1.47	0.60
1:Z:586:VAL:HA	1:Z:590:MET:HE1	1.83	0.60
1:a:544:LEU:HB3	1:a:711:THR:HG23	1.83	0.60
1:h:274:ARG:HH11	1:h:276:HIS:HE1	1.47	0.60
1:i:586:VAL:HA	1:i:590:MET:HE1	1.83	0.60
1:o:274:ARG:HH11	1:o:276:HIS:HE1	1.47	0.60
1:o:341:ILE:H	1:o:631:GLN:HE22	1.49	0.60
1:o:586:VAL:HA	1:o:590:MET:HE1	1.83	0.60
1:s:586:VAL:HA	1:s:590:MET:HE1	1.83	0.60
1:z:341:ILE:H	1:z:631:GLN:HE22	1.49	0.60
1:B:341:ILE:H	1:B:631:GLN:HE22	1.49	0.60
1:C:367:THR:HG21	1:C:384:ALA:H	1.64	0.60
1:C:586:VAL:HA	1:C:590:MET:HE1	1.83	0.60
1:D:274:ARG:HH11	1:D:276:HIS:HE1	1.47	0.60
1:L:341:ILE:H	1:L:631:GLN:HE22	1.49	0.60
1:M:274:ARG:HH11	1:M:276:HIS:HE1	1.47	0.60
1:Q:274:ARG:HD2	1:Q:276:HIS:CE1	2.35	0.60
1:R:341:ILE:H	1:R:631:GLN:HE22	1.49	0.60
1:U:586:VAL:HA	1:U:590:MET:HE1	1.83	0.60
1:W:341:ILE:H	1:W:631:GLN:HE22	1.49	0.60
1:X:341:ILE:H	1:X:631:GLN:HE22	1.49	0.60
1:g:586:VAL:HA	1:g:590:MET:HE1	1.83	0.60
1:o:544:LEU:HB3	1:o:711:THR:HG23	1.84	0.60
1:q:341:ILE:H	1:q:631:GLN:HE22	1.49	0.60
1:t:544:LEU:HB3	1:t:711:THR:HG23	1.84	0.60
1:x:544:LEU:HB3	1:x:711:THR:HG23	1.83	0.60
1:z:586:VAL:HA	1:z:590:MET:HE1	1.83	0.60
1:1:341:ILE:H	1:1:631:GLN:HE22	1.49	0.60
1:4:544:LEU:HB3	1:4:711:THR:HG23	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:586:VAL:HA	1:8:590:MET:HE1	1.83	0.60
1:X:544:LEU:HB3	1:X:711:THR:HG23	1.84	0.60
1:b:367:THR:HG21	1:b:384:ALA:H	1.64	0.60
1:i:341:ILE:H	1:i:631:GLN:HE22	1.49	0.60
1:n:544:LEU:HB3	1:n:711:THR:HG23	1.83	0.60
1:s:341:ILE:H	1:s:631:GLN:HE22	1.49	0.60
1:6:341:ILE:H	1:6:631:GLN:HE22	1.49	0.60
1:A:544:LEU:HB3	1:A:711:THR:HG23	1.83	0.60
1:N:341:ILE:H	1:N:631:GLN:HE22	1.49	0.60
1:Q:544:LEU:HB3	1:Q:711:THR:HG23	1.84	0.60
1:T:274:ARG:HH11	1:T:276:HIS:HE1	1.47	0.60
1:c:544:LEU:HB3	1:c:711:THR:HG23	1.84	0.60
1:e:544:LEU:HB3	1:e:711:THR:HG23	1.84	0.60
1:k:274:ARG:HH11	1:k:276:HIS:HE1	1.47	0.60
1:n:586:VAL:HA	1:n:590:MET:HE1	1.83	0.60
1:6:544:LEU:HB3	1:6:711:THR:HG23	1.83	0.60
1:6:586:VAL:HA	1:6:590:MET:HE1	1.83	0.60
1:A:341:ILE:H	1:A:631:GLN:HE22	1.49	0.60
1:B:544:LEU:HB3	1:B:711:THR:HG23	1.84	0.60
1:R:544:LEU:HB3	1:R:711:THR:HG23	1.84	0.60
1:U:341:ILE:H	1:U:631:GLN:HE22	1.49	0.60
1:W:544:LEU:HB3	1:W:711:THR:HG23	1.83	0.60
1:X:274:ARG:HH11	1:X:276:HIS:HE1	1.47	0.60
1:d:544:LEU:HB3	1:d:711:THR:HG23	1.84	0.60
1:i:544:LEU:HB3	1:i:711:THR:HG23	1.83	0.60
1:q:544:LEU:HB3	1:q:711:THR:HG23	1.84	0.60
1:u:586:VAL:HA	1:u:590:MET:HE1	1.83	0.60
1:v:544:LEU:HB3	1:v:711:THR:HG23	1.84	0.60
1:x:274:ARG:HD2	1:x:276:HIS:CE1	2.35	0.60
1:1:544:LEU:HB3	1:1:711:THR:HG23	1.84	0.60
1:N:544:LEU:HB3	1:N:711:THR:HG23	1.83	0.60
1:W:586:VAL:HA	1:W:590:MET:HE1	1.83	0.60
1:d:586:VAL:HA	1:d:590:MET:HE1	1.83	0.60
1:m:274:ARG:HH11	1:m:276:HIS:HE1	1.47	0.60
1:m:544:LEU:HB3	1:m:711:THR:HG23	1.83	0.60
1:v:341:ILE:H	1:v:631:GLN:HE22	1.49	0.60
1:y:586:VAL:HA	1:y:590:MET:HE1	1.83	0.60
1:z:347:GLU:OE2	1:2:450:LYS:NZ	2.26	0.60
1:C:274:ARG:HH11	1:C:276:HIS:HE1	1.47	0.60
1:C:341:ILE:H	1:C:631:GLN:HE22	1.49	0.60
1:E:586:VAL:HA	1:E:590:MET:HE1	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:586:VAL:HA	1:F:590:MET:HE1	1.83	0.60
1:I:544:LEU:HB3	1:I:711:THR:HG23	1.84	0.60
1:I:586:VAL:HA	1:I:590:MET:HE1	1.83	0.60
1:Q:341:ILE:H	1:Q:631:GLN:HE22	1.49	0.60
1:T:544:LEU:HB3	1:T:711:THR:HG23	1.83	0.60
1:g:341:ILE:H	1:g:631:GLN:HE22	1.49	0.60
1:u:544:LEU:HB3	1:u:711:THR:HG23	1.84	0.60
1:x:341:ILE:H	1:x:631:GLN:HE22	1.49	0.60
1:x:586:VAL:HA	1:x:590:MET:HE1	1.83	0.60
1:z:544:LEU:HB3	1:z:711:THR:HG23	1.84	0.60
1:L:544:LEU:HB3	1:L:711:THR:HG23	1.84	0.60
1:Q:586:VAL:HA	1:Q:590:MET:HE1	1.83	0.60
1:Z:341:ILE:H	1:Z:631:GLN:HE22	1.49	0.60
1:g:274:ARG:HH11	1:g:276:HIS:HE1	1.47	0.60
1:w:586:VAL:HA	1:w:590:MET:HE1	1.83	0.60
1:8:341:ILE:H	1:8:631:GLN:HE22	1.49	0.60
1:O:586:VAL:HA	1:O:590:MET:HE1	1.83	0.60
1:c:586:VAL:HA	1:c:590:MET:HE1	1.83	0.60
1:e:586:VAL:HA	1:e:590:MET:HE1	1.83	0.60
1:l:586:VAL:HA	1:l:590:MET:HE1	1.83	0.60
1:r:586:VAL:HA	1:r:590:MET:HE1	1.83	0.60
1:8:544:LEU:HB3	1:8:711:THR:HG23	1.84	0.60
1:S:586:VAL:HA	1:S:590:MET:HE1	1.83	0.60
1:Y:274:ARG:HH11	1:Y:276:HIS:HE1	1.47	0.60
1:Y:544:LEU:HB3	1:Y:711:THR:HG23	1.83	0.60
1:Z:544:LEU:HB3	1:Z:711:THR:HG23	1.84	0.60
1:5:341:ILE:H	1:5:631:GLN:HE22	1.49	0.60
1:7:544:LEU:HB3	1:7:711:THR:HG23	1.83	0.60
1:P:586:VAL:HA	1:P:590:MET:HE1	1.83	0.59
1:j:586:VAL:HA	1:j:590:MET:HE1	1.83	0.59
1:k:544:LEU:HB3	1:k:711:THR:HG23	1.83	0.59
1:k:586:VAL:HA	1:k:590:MET:HE1	1.83	0.59
1:D:544:LEU:HB3	1:D:711:THR:HG23	1.83	0.59
1:D:586:VAL:HA	1:D:590:MET:HE1	1.83	0.59
1:G:586:VAL:HA	1:G:590:MET:HE1	1.83	0.59
1:H:586:VAL:HA	1:H:590:MET:HE1	1.83	0.59
1:t:586:VAL:HA	1:t:590:MET:HE1	1.83	0.59
1:7:274:ARG:HH11	1:7:276:HIS:HE1	1.47	0.59
1:C:544:LEU:HB3	1:C:711:THR:HG23	1.84	0.59
1:H:341:ILE:H	1:H:631:GLN:HE22	1.49	0.59
1:I:287:LEU:HD11	1:I:294:ILE:HD12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:586:VAL:HA	1:J:590:MET:HE1	1.83	0.59
1:R:586:VAL:HA	1:R:590:MET:HE1	1.83	0.59
1:f:544:LEU:HB3	1:f:711:THR:HG23	1.84	0.59
1:h:544:LEU:HB3	1:h:711:THR:HG23	1.84	0.59
1:q:586:VAL:HA	1:q:590:MET:HE1	1.83	0.59
1:u:287:LEU:HD11	1:u:294:ILE:HD12	1.85	0.59
1:E:341:ILE:H	1:E:631:GLN:HE22	1.49	0.59
1:M:544:LEU:HB3	1:M:711:THR:HG23	1.84	0.59
1:a:287:LEU:HD11	1:a:294:ILE:HD12	1.85	0.59
1:b:544:LEU:HB3	1:b:711:THR:HG23	1.84	0.59
1:g:544:LEU:HB3	1:g:711:THR:HG23	1.84	0.59
1:j:341:ILE:H	1:j:631:GLN:HE22	1.49	0.59
1:2:287:LEU:HD11	1:2:294:ILE:HD12	1.85	0.59
1:3:287:LEU:HD11	1:3:294:ILE:HD12	1.85	0.59
1:5:586:VAL:HA	1:5:590:MET:HE1	1.83	0.59
1:P:287:LEU:HD11	1:P:294:ILE:HD12	1.85	0.59
1:q:287:LEU:HD11	1:q:294:ILE:HD12	1.85	0.59
1:w:341:ILE:H	1:w:631:GLN:HE22	1.49	0.59
1:4:287:LEU:HD11	1:4:294:ILE:HD12	1.85	0.59
1:8:287:LEU:HD11	1:8:294:ILE:HD12	1.85	0.59
1:E:287:LEU:HD11	1:E:294:ILE:HD12	1.85	0.59
1:E:544:LEU:HB3	1:E:711:THR:HG23	1.84	0.59
1:J:287:LEU:HD11	1:J:294:ILE:HD12	1.85	0.59
1:K:287:LEU:HD11	1:K:294:ILE:HD12	1.85	0.59
1:P:341:ILE:H	1:P:631:GLN:HE22	1.49	0.59
1:R:287:LEU:HD11	1:R:294:ILE:HD12	1.85	0.59
1:S:341:ILE:H	1:S:631:GLN:HE22	1.49	0.59
1:T:586:VAL:HA	1:T:590:MET:HE1	1.83	0.59
1:Z:287:LEU:HD11	1:Z:294:ILE:HD12	1.85	0.59
1:b:341:ILE:H	1:b:631:GLN:HE22	1.49	0.59
1:j:287:LEU:HD11	1:j:294:ILE:HD12	1.85	0.59
1:m:586:VAL:HA	1:m:590:MET:HE1	1.83	0.59
1:s:544:LEU:HB3	1:s:711:THR:HG23	1.84	0.59
1:w:287:LEU:HD11	1:w:294:ILE:HD12	1.85	0.59
1:2:586:VAL:HA	1:2:590:MET:HE1	1.83	0.59
1:A:287:LEU:HD11	1:A:294:ILE:HD12	1.85	0.59
1:U:544:LEU:HB3	1:U:711:THR:HG23	1.84	0.59
1:f:341:ILE:H	1:f:631:GLN:HE22	1.49	0.59
1:u:341:ILE:H	1:u:631:GLN:HE22	1.49	0.59
1:w:544:LEU:HB3	1:w:711:THR:HG23	1.84	0.59
1:z:287:LEU:HD11	1:z:294:ILE:HD12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:586:VAL:HA	1:4:590:MET:HE1	1.83	0.59
1:K:341:ILE:H	1:K:631:GLN:HE22	1.49	0.59
1:K:586:VAL:HA	1:K:590:MET:HE1	1.83	0.59
1:L:287:LEU:HD11	1:L:294:ILE:HD12	1.85	0.59
1:O:347:GLU:OE2	1:n:450:LYS:NZ	2.26	0.59
1:S:287:LEU:HD11	1:S:294:ILE:HD12	1.85	0.59
1:r:341:ILE:H	1:r:631:GLN:HE22	1.49	0.59
1:v:287:LEU:HD11	1:v:294:ILE:HD12	1.85	0.59
1:A:586:VAL:HA	1:A:590:MET:HE1	1.83	0.59
1:I:341:ILE:H	1:I:631:GLN:HE22	1.49	0.59
1:M:287:LEU:HD11	1:M:294:ILE:HD12	1.85	0.59
1:P:544:LEU:HB3	1:P:711:THR:HG23	1.84	0.59
1:Q:287:LEU:HD11	1:Q:294:ILE:HD12	1.85	0.59
1:r:287:LEU:HD11	1:r:294:ILE:HD12	1.85	0.59
1:t:341:ILE:H	1:t:631:GLN:HE22	1.49	0.59
1:x:287:LEU:HD11	1:x:294:ILE:HD12	1.85	0.59
1:y:287:LEU:HD11	1:y:294:ILE:HD12	1.85	0.59
1:4:341:ILE:H	1:4:631:GLN:HE22	1.49	0.59
1:F:287:LEU:HD11	1:F:294:ILE:HD12	1.85	0.59
1:G:341:ILE:H	1:G:631:GLN:HE22	1.49	0.59
1:J:341:ILE:H	1:J:631:GLN:HE22	1.49	0.59
1:a:341:ILE:H	1:a:631:GLN:HE22	1.49	0.59
1:h:287:LEU:HD11	1:h:294:ILE:HD12	1.85	0.59
1:j:544:LEU:HB3	1:j:711:THR:HG23	1.84	0.59
1:s:287:LEU:HD11	1:s:294:ILE:HD12	1.85	0.59
1:v:586:VAL:HA	1:v:590:MET:HE1	1.83	0.59
1:2:544:LEU:HB3	1:2:711:THR:HG23	1.83	0.59
1:3:341:ILE:H	1:3:631:GLN:HE22	1.49	0.59
1:F:341:ILE:H	1:F:631:GLN:HE22	1.49	0.58
1:J:544:LEU:HB3	1:J:711:THR:HG23	1.84	0.58
1:M:341:ILE:H	1:M:631:GLN:HE22	1.49	0.58
1:U:287:LEU:HD11	1:U:294:ILE:HD12	1.85	0.58
1:h:341:ILE:H	1:h:631:GLN:HE22	1.49	0.58
1:l:544:LEU:HB3	1:l:711:THR:HG23	1.84	0.58
1:m:341:ILE:H	1:m:631:GLN:HE22	1.49	0.58
1:6:287:LEU:HD11	1:6:294:ILE:HD12	1.85	0.58
1:H:287:LEU:HD11	1:H:294:ILE:HD12	1.85	0.58
1:T:341:ILE:H	1:T:631:GLN:HE22	1.49	0.58
1:V:287:LEU:HD11	1:V:294:ILE:HD12	1.85	0.58
1:W:287:LEU:HD11	1:W:294:ILE:HD12	1.85	0.58
1:p:287:LEU:HD11	1:p:294:ILE:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:341:ILE:H	1:y:631:GLN:HE22	1.49	0.58
1:2:341:ILE:H	1:2:631:GLN:HE22	1.49	0.58
1:O:544:LEU:HB3	1:O:711:THR:HG23	1.84	0.58
1:S:544:LEU:HB3	1:S:711:THR:HG23	1.84	0.58
1:V:544:LEU:HB3	1:V:711:THR:HG23	1.84	0.58
1:d:287:LEU:HD11	1:d:294:ILE:HD12	1.85	0.58
1:f:287:LEU:HD11	1:f:294:ILE:HD12	1.85	0.58
1:n:287:LEU:HD11	1:n:294:ILE:HD12	1.85	0.58
1:r:544:LEU:HB3	1:r:711:THR:HG23	1.84	0.58
1:5:287:LEU:HD11	1:5:294:ILE:HD12	1.85	0.58
1:T:287:LEU:HD11	1:T:294:ILE:HD12	1.85	0.58
1:b:287:LEU:HD11	1:b:294:ILE:HD12	1.85	0.58
1:l:341:ILE:H	1:l:631:GLN:HE22	1.49	0.58
1:O:341:ILE:H	1:O:631:GLN:HE22	1.49	0.58
1:R:347:GLU:OE2	1:U:450:LYS:NZ	2.25	0.58
1:m:287:LEU:HD11	1:m:294:ILE:HD12	1.85	0.58
1:o:287:LEU:HD11	1:o:294:ILE:HD12	1.85	0.58
1:p:544:LEU:HB3	1:p:711:THR:HG23	1.84	0.58
1:C:347:GLU:OE2	1:M:450:LYS:NZ	2.25	0.58
1:X:287:LEU:HD11	1:X:294:ILE:HD12	1.85	0.58
1:d:341:ILE:H	1:d:631:GLN:HE22	1.49	0.58
1:g:347:GLU:OE2	1:h:450:LYS:NZ	2.25	0.58
1:H:544:LEU:HB3	1:H:711:THR:HG23	1.84	0.58
1:N:287:LEU:HD11	1:N:294:ILE:HD12	1.85	0.58
1:V:341:ILE:H	1:V:631:GLN:HE22	1.49	0.58
1:i:287:LEU:HD11	1:i:294:ILE:HD12	1.85	0.58
1:n:341:ILE:H	1:n:631:GLN:HE22	1.49	0.58
1:q:347:GLU:OE2	1:s:450:LYS:NZ	2.25	0.58
1:q:450:LYS:NZ	1:r:347:GLU:OE2	2.23	0.58
1:1:450:LYS:NZ	1:2:347:GLU:OE2	2.23	0.58
1:5:544:LEU:HB3	1:5:711:THR:HG23	1.84	0.58
1:C:287:LEU:HD11	1:C:294:ILE:HD12	1.85	0.58
1:D:406:TYR:OH	1:D:627:ASN:O	2.22	0.58
1:F:544:LEU:HB3	1:F:711:THR:HG23	1.83	0.58
1:c:287:LEU:HD11	1:c:294:ILE:HD12	1.85	0.58
1:8:406:TYR:OH	1:8:627:ASN:O	2.22	0.58
1:Z:406:TYR:OH	1:Z:627:ASN:O	2.22	0.58
1:e:287:LEU:HD11	1:e:294:ILE:HD12	1.85	0.58
1:g:287:LEU:HD11	1:g:294:ILE:HD12	1.85	0.58
1:p:341:ILE:H	1:p:631:GLN:HE22	1.49	0.58
1:l:287:LEU:HD11	1:l:294:ILE:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:544:LEU:HB3	1:y:711:THR:HG23	1.84	0.58
1:7:287:LEU:HD11	1:7:294:ILE:HD12	1.85	0.58
1:Y:287:LEU:HD11	1:Y:294:ILE:HD12	1.85	0.57
1:b:406:TYR:OH	1:b:627:ASN:O	2.22	0.57
1:k:287:LEU:HD11	1:k:294:ILE:HD12	1.85	0.57
1:n:406:TYR:OH	1:n:627:ASN:O	2.22	0.57
1:o:406:TYR:OH	1:o:627:ASN:O	2.22	0.57
1:t:347:GLU:OE2	1:v:450:LYS:NZ	2.26	0.57
1:D:287:LEU:HD11	1:D:294:ILE:HD12	1.85	0.57
1:O:287:LEU:HD11	1:O:294:ILE:HD12	1.85	0.57
1:R:450:LYS:NZ	1:S:347:GLU:OE2	2.23	0.57
1:X:406:TYR:OH	1:X:627:ASN:O	2.22	0.57
1:d:406:TYR:OH	1:d:627:ASN:O	2.22	0.57
1:f:406:TYR:OH	1:f:627:ASN:O	2.22	0.57
1:t:406:TYR:OH	1:t:627:ASN:O	2.22	0.57
1:t:287:LEU:HD11	1:t:294:ILE:HD12	1.85	0.57
1:2:406:TYR:OH	1:2:627:ASN:O	2.22	0.57
1:B:450:LYS:NZ	1:J:347:GLU:OE2	2.23	0.57
1:G:287:LEU:HD11	1:G:294:ILE:HD12	1.85	0.57
1:G:406:TYR:OH	1:G:627:ASN:O	2.22	0.57
1:J:406:TYR:OH	1:J:627:ASN:O	2.22	0.57
1:s:406:TYR:OH	1:s:627:ASN:O	2.22	0.57
1:U:406:TYR:OH	1:U:627:ASN:O	2.22	0.57
1:6:406:TYR:OH	1:6:627:ASN:O	2.22	0.57
1:A:450:LYS:NZ	1:G:347:GLU:OE2	2.26	0.57
1:B:287:LEU:HD11	1:B:294:ILE:HD12	1.85	0.57
1:W:406:TYR:OH	1:W:627:ASN:O	2.22	0.57
1:l:406:TYR:OH	1:l:627:ASN:O	2.22	0.57
1:K:341:ILE:H	1:K:631:GLN:NE2	2.03	0.57
1:O:406:TYR:OH	1:O:627:ASN:O	2.22	0.57
1:c:406:TYR:OH	1:c:627:ASN:O	2.22	0.57
1:e:406:TYR:OH	1:e:627:ASN:O	2.22	0.57
1:1:287:LEU:HD11	1:1:294:ILE:HD12	1.85	0.57
1:E:341:ILE:H	1:E:631:GLN:NE2	2.03	0.57
1:G:341:ILE:H	1:G:631:GLN:NE2	2.03	0.57
1:c:341:ILE:H	1:c:631:GLN:NE2	2.03	0.57
1:e:341:ILE:H	1:e:631:GLN:NE2	2.03	0.57
1:t:341:ILE:H	1:t:631:GLN:NE2	2.03	0.57
1:u:406:TYR:OH	1:u:627:ASN:O	2.22	0.57
1:4:341:ILE:H	1:4:631:GLN:NE2	2.03	0.57
1:I:406:TYR:OH	1:I:627:ASN:O	2.22	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:341:ILE:H	1:M:631:GLN:NE2	2.03	0.57
1:Q:341:ILE:H	1:Q:631:GLN:NE2	2.03	0.57
1:T:341:ILE:H	1:T:631:GLN:NE2	2.03	0.57
1:h:341:ILE:H	1:h:631:GLN:NE2	2.03	0.57
1:j:406:TYR:OH	1:j:627:ASN:O	2.22	0.57
1:w:341:ILE:H	1:w:631:GLN:NE2	2.03	0.57
1:D:341:ILE:H	1:D:631:GLN:NE2	2.03	0.57
1:m:341:ILE:H	1:m:631:GLN:NE2	2.03	0.57
1:P:406:TYR:OH	1:P:627:ASN:O	2.22	0.56
1:f:450:LYS:NZ	1:h:347:GLU:OE2	2.26	0.56
1:i:341:ILE:H	1:i:631:GLN:NE2	2.03	0.56
1:x:341:ILE:H	1:x:631:GLN:NE2	2.03	0.56
1:C:341:ILE:H	1:C:631:GLN:NE2	2.03	0.56
1:C:406:TYR:OH	1:C:627:ASN:O	2.22	0.56
1:N:341:ILE:H	1:N:631:GLN:NE2	2.03	0.56
1:g:341:ILE:H	1:g:631:GLN:NE2	2.03	0.56
1:j:341:ILE:H	1:j:631:GLN:NE2	2.03	0.56
1:k:341:ILE:H	1:k:631:GLN:NE2	2.03	0.56
1:J:341:ILE:H	1:J:631:GLN:NE2	2.03	0.56
1:L:341:ILE:H	1:L:631:GLN:NE2	2.03	0.56
1:P:341:ILE:H	1:P:631:GLN:NE2	2.03	0.56
1:U:341:ILE:H	1:U:631:GLN:NE2	2.03	0.56
1:d:341:ILE:H	1:d:631:GLN:NE2	2.03	0.56
1:o:341:ILE:H	1:o:631:GLN:NE2	2.03	0.56
1:s:341:ILE:H	1:s:631:GLN:NE2	2.03	0.56
1:z:341:ILE:H	1:z:631:GLN:NE2	2.03	0.56
1:1:341:ILE:H	1:1:631:GLN:NE2	2.03	0.56
1:2:341:ILE:H	1:2:631:GLN:NE2	2.03	0.56
1:B:341:ILE:H	1:B:631:GLN:NE2	2.03	0.56
1:S:450:LYS:NZ	1:U:347:GLU:OE2	2.26	0.56
1:X:341:ILE:H	1:X:631:GLN:NE2	2.03	0.56
1:p:341:ILE:H	1:p:631:GLN:NE2	2.03	0.56
1:F:341:ILE:H	1:F:631:GLN:NE2	2.03	0.56
1:H:406:TYR:OH	1:H:627:ASN:O	2.22	0.56
1:q:341:ILE:H	1:q:631:GLN:NE2	2.03	0.56
1:3:341:ILE:H	1:3:631:GLN:NE2	2.03	0.56
1:5:406:TYR:OH	1:5:627:ASN:O	2.22	0.56
1:R:341:ILE:H	1:R:631:GLN:NE2	2.03	0.56
1:V:341:ILE:H	1:V:631:GLN:NE2	2.03	0.56
1:a:341:ILE:H	1:a:631:GLN:NE2	2.03	0.56
1:n:341:ILE:H	1:n:631:GLN:NE2	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:406:TYR:OH	1:3:627:ASN:O	2.22	0.56
1:V:406:TYR:OH	1:V:627:ASN:O	2.22	0.56
1:a:406:TYR:OH	1:a:627:ASN:O	2.22	0.56
1:y:341:ILE:H	1:y:631:GLN:NE2	2.03	0.56
1:F:397:ARG:HG3	1:R:214:SER:HB3	1.87	0.56
1:p:406:TYR:OH	1:p:627:ASN:O	2.22	0.56
1:r:450:LYS:NZ	1:s:347:GLU:OE2	2.26	0.56
1:5:341:ILE:H	1:5:631:GLN:NE2	2.03	0.56
1:H:341:ILE:H	1:H:631:GLN:NE2	2.03	0.56
1:f:397:ARG:HG3	1:z:214:SER:HB3	1.87	0.56
1:q:214:SER:HB3	1:y:397:ARG:HG3	1.87	0.56
1:r:341:ILE:H	1:r:631:GLN:NE2	2.03	0.56
1:S:341:ILE:H	1:S:631:GLN:NE2	2.03	0.55
1:w:406:TYR:OH	1:w:627:ASN:O	2.22	0.55
1:A:397:ARG:HG3	1:B:214:SER:HB3	1.87	0.55
1:E:406:TYR:OH	1:E:627:ASN:O	2.22	0.55
1:I:341:ILE:H	1:I:631:GLN:NE2	2.03	0.55
1:i:406:TYR:OH	1:i:627:ASN:O	2.22	0.55
1:u:341:ILE:H	1:u:631:GLN:NE2	2.03	0.55
1:L:406:TYR:OH	1:L:627:ASN:O	2.22	0.55
1:N:406:TYR:OH	1:N:627:ASN:O	2.22	0.55
1:W:341:ILE:H	1:W:631:GLN:NE2	2.03	0.55
1:b:341:ILE:H	1:b:631:GLN:NE2	2.03	0.55
1:v:397:ARG:HG3	1:1:214:SER:HB3	1.87	0.55
1:A:341:ILE:H	1:A:631:GLN:NE2	2.03	0.55
1:T:406:TYR:OH	1:T:627:ASN:O	2.22	0.55
1:Y:341:ILE:H	1:Y:631:GLN:NE2	2.03	0.55
1:f:341:ILE:H	1:f:631:GLN:NE2	2.03	0.55
1:v:341:ILE:H	1:v:631:GLN:NE2	2.03	0.55
1:6:341:ILE:H	1:6:631:GLN:NE2	2.03	0.55
1:q:290:ASN:HD21	1:x:290:ASN:HD21	1.55	0.55
1:z:406:TYR:OH	1:z:627:ASN:O	2.22	0.55
1:m:406:TYR:OH	1:m:627:ASN:O	2.22	0.55
1:1:406:TYR:OH	1:1:627:ASN:O	2.22	0.55
1:6:450:LYS:NZ	1:7:347:GLU:OE2	2.26	0.55
1:7:341:ILE:H	1:7:631:GLN:NE2	2.03	0.55
1:B:406:TYR:OH	1:B:627:ASN:O	2.22	0.55
1:N:450:LYS:NZ	1:P:347:GLU:OE2	2.25	0.55
1:Z:341:ILE:H	1:Z:631:GLN:NE2	2.03	0.55
1:8:341:ILE:H	1:8:631:GLN:NE2	2.03	0.55
1:Q:290:ASN:HD21	1:R:290:ASN:HD21	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:214:SER:HB3	1:d:397:ARG:HG3	1.89	0.55
1:b:290:ASN:HD21	1:c:290:ASN:HD21	1.55	0.55
1:l:341:ILE:H	1:l:631:GLN:NE2	2.03	0.55
1:n:397:ARG:HG3	1:r:214:SER:HB3	1.89	0.55
1:q:406:TYR:OH	1:q:627:ASN:O	2.22	0.55
1:B:290:ASN:HD21	1:I:290:ASN:HD21	1.55	0.55
1:O:341:ILE:H	1:O:631:GLN:NE2	2.03	0.55
1:P:214:SER:HB3	1:Q:397:ARG:HG3	1.89	0.55
1:U:214:SER:HB3	1:e:397:ARG:HG3	1.89	0.55
1:V:397:ARG:HG3	1:W:214:SER:HB3	1.89	0.55
1:W:450:LYS:NZ	1:Y:347:GLU:OE2	2.25	0.55
1:j:214:SER:HB3	1:x:397:ARG:HG3	1.89	0.55
1:u:290:ASN:HD21	1:1:290:ASN:HD21	1.55	0.55
1:Q:406:TYR:OH	1:Q:627:ASN:O	2.22	0.55
1:R:406:TYR:OH	1:R:627:ASN:O	2.22	0.55
1:Z:397:ARG:HG3	1:a:214:SER:HB3	1.89	0.55
1:c:397:ARG:HG3	1:s:214:SER:HB3	1.89	0.55
1:e:290:ASN:HD21	1:f:290:ASN:HD21	1.55	0.55
1:p:397:ARG:HG3	1:6:214:SER:HB3	1.89	0.55
1:v:406:TYR:OH	1:v:627:ASN:O	2.22	0.55
1:H:214:SER:HB3	1:I:397:ARG:HG3	1.89	0.54
1:R:366:LEU:HD23	1:U:429:PRO:HB3	1.90	0.54
1:V:367:THR:HG22	1:V:368:LEU:N	2.23	0.54
1:X:214:SER:HB3	1:Y:397:ARG:HG3	1.90	0.54
1:X:397:ARG:HG3	1:f:214:SER:HB3	1.89	0.54
1:i:450:LYS:NZ	1:j:347:GLU:OE2	2.25	0.54
1:o:214:SER:HB3	1:7:397:ARG:HG3	1.90	0.54
1:p:367:THR:HG22	1:p:368:LEU:N	2.23	0.54
1:q:366:LEU:HD23	1:s:429:PRO:HB3	1.90	0.54
1:x:406:TYR:OH	1:x:627:ASN:O	2.22	0.54
1:3:214:SER:HB3	1:8:397:ARG:HG3	1.90	0.54
1:E:367:THR:HG22	1:E:368:LEU:N	2.23	0.54
1:U:290:ASN:HD21	1:V:290:ASN:HD21	1.55	0.54
1:b:214:SER:HB3	1:o:397:ARG:HG3	1.89	0.54
1:p:290:ASN:HD21	1:s:290:ASN:HD21	1.55	0.54
1:r:406:TYR:OH	1:r:627:ASN:O	2.22	0.54
1:u:397:ARG:HG3	1:5:214:SER:HB3	1.89	0.54
1:w:367:THR:HG22	1:w:368:LEU:N	2.23	0.54
1:A:406:TYR:OH	1:A:627:ASN:O	2.22	0.54
1:Y:214:SER:HB3	1:4:397:ARG:HG3	1.89	0.54
1:d:290:ASN:HD21	1:n:290:ASN:HD21	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:290:ASN:HD21	1:r:290:ASN:HD21	1.55	0.54
1:4:406:TYR:OH	1:4:627:ASN:O	2.22	0.54
1:D:367:THR:HG22	1:D:368:LEU:N	2.23	0.54
1:K:406:TYR:OH	1:K:627:ASN:O	2.22	0.54
1:S:290:ASN:HD21	1:T:290:ASN:HD21	1.55	0.54
1:S:406:TYR:OH	1:S:627:ASN:O	2.22	0.54
1:S:429:PRO:HB3	1:U:366:LEU:HD23	1.90	0.54
1:W:290:ASN:HD21	1:X:290:ASN:HD21	1.55	0.54
1:b:367:THR:HG22	1:b:368:LEU:N	2.23	0.54
1:r:429:PRO:HB3	1:s:366:LEU:HD23	1.90	0.54
1:z:381:PRO:HB2	1:2:684:ILE:HD11	1.90	0.54
1:G:367:THR:HG22	1:G:368:LEU:N	2.23	0.54
1:K:214:SER:HB3	1:L:397:ARG:HG3	1.90	0.54
1:k:367:THR:HG22	1:k:368:LEU:N	2.23	0.54
1:o:290:ASN:HD21	1:6:290:ASN:HD21	1.55	0.54
1:D:397:ARG:HG3	1:E:214:SER:HB3	1.90	0.54
1:E:683:GLU:OE1	1:E:717:LEU:HG	2.08	0.54
1:G:683:GLU:OE1	1:G:717:LEU:HG	2.08	0.54
1:K:397:ARG:HG3	1:7:214:SER:HB3	1.89	0.54
1:f:367:THR:HG22	1:f:368:LEU:N	2.23	0.54
1:h:290:ASN:HD21	1:k:290:ASN:HD21	1.55	0.54
1:t:367:THR:HG22	1:t:368:LEU:N	2.23	0.54
1:t:397:ARG:HG3	1:y:214:SER:HB3	1.89	0.54
1:A:214:SER:HB3	1:E:397:ARG:HG3	1.89	0.54
1:D:290:ASN:HD21	1:M:290:ASN:HD21	1.55	0.54
1:F:214:SER:HB3	1:G:397:ARG:HG3	1.89	0.54
1:H:683:GLU:OE1	1:H:717:LEU:HG	2.08	0.54
1:M:214:SER:HB3	1:N:397:ARG:HG3	1.90	0.54
1:M:397:ARG:HG3	1:c:214:SER:HB3	1.89	0.54
1:P:683:GLU:OE1	1:P:717:LEU:HG	2.08	0.54
1:U:683:GLU:OE1	1:U:717:LEU:HG	2.08	0.54
1:e:214:SER:HB3	1:h:397:ARG:HG3	1.89	0.54
1:i:347:GLU:OE2	1:k:450:LYS:NZ	2.26	0.54
1:j:290:ASN:HD21	1:w:290:ASN:HD21	1.55	0.54
1:j:683:GLU:OE1	1:j:717:LEU:HG	2.08	0.54
1:k:397:ARG:HG3	1:w:214:SER:HB3	1.90	0.54
1:t:683:GLU:OE1	1:t:717:LEU:HG	2.08	0.54
1:5:683:GLU:OE1	1:5:717:LEU:HG	2.08	0.54
1:D:450:LYS:NZ	1:N:347:GLU:OE2	2.25	0.54
1:E:366:LEU:HD23	1:F:429:PRO:HB3	1.90	0.54
1:N:214:SER:HB3	1:m:397:ARG:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:367:THR:HG22	1:P:368:LEU:N	2.23	0.54
1:R:683:GLU:OE1	1:R:717:LEU:HG	2.08	0.54
1:U:367:THR:HG22	1:U:368:LEU:N	2.23	0.54
1:g:683:GLU:OE1	1:g:717:LEU:HG	2.08	0.54
1:h:406:TYR:OH	1:h:627:ASN:O	2.22	0.54
1:i:290:ASN:HD21	1:l:290:ASN:HD21	1.55	0.54
1:j:367:THR:HG22	1:j:368:LEU:N	2.23	0.54
1:q:683:GLU:OE1	1:q:717:LEU:HG	2.08	0.54
1:s:367:THR:HG22	1:s:368:LEU:N	2.23	0.54
1:s:683:GLU:OE1	1:s:717:LEU:HG	2.08	0.54
1:w:366:LEU:HD23	1:y:429:PRO:HB3	1.90	0.54
1:w:683:GLU:OE1	1:w:717:LEU:HG	2.08	0.54
1:y:406:TYR:OH	1:y:627:ASN:O	2.22	0.54
1:z:482:ASN:ND2	1:2:575:ALA:HA	2.23	0.54
1:7:406:TYR:OH	1:7:627:ASN:O	2.22	0.54
1:C:396:LEU:HD11	1:C:402:PHE:HB2	1.90	0.54
1:C:683:GLU:OE1	1:C:717:LEU:HG	2.08	0.54
1:E:290:ASN:HD21	1:P:290:ASN:HD21	1.55	0.54
1:J:214:SER:HB3	1:a:397:ARG:HG3	1.89	0.54
1:J:396:LEU:HD11	1:J:402:PHE:HB2	1.90	0.54
1:N:290:ASN:HD21	1:O:290:ASN:HD21	1.55	0.54
1:O:683:GLU:OE1	1:O:717:LEU:HG	2.08	0.54
1:T:397:ARG:HG3	1:i:214:SER:HB3	1.89	0.54
1:a:396:LEU:HD11	1:a:402:PHE:HB2	1.90	0.54
1:c:367:THR:HG22	1:c:368:LEU:N	2.23	0.54
1:h:214:SER:HB3	1:i:397:ARG:HG3	1.90	0.54
1:u:450:LYS:NZ	1:v:347:GLU:OE2	2.26	0.54
1:F:396:LEU:HD11	1:F:402:PHE:HB2	1.90	0.54
1:F:406:TYR:OH	1:F:627:ASN:O	2.22	0.54
1:F:683:GLU:OE1	1:F:717:LEU:HG	2.08	0.54
1:G:429:PRO:HB3	1:I:366:LEU:HD23	1.90	0.54
1:K:683:GLU:OE1	1:K:717:LEU:HG	2.08	0.54
1:Q:683:GLU:OE1	1:Q:717:LEU:HG	2.08	0.54
1:Y:683:GLU:OE1	1:Y:717:LEU:HG	2.08	0.54
1:g:396:LEU:HD11	1:g:402:PHE:HB2	1.90	0.54
1:g:397:ARG:HG3	1:k:214:SER:HB3	1.89	0.54
1:l:683:GLU:OE1	1:l:717:LEU:HG	2.08	0.54
1:t:429:PRO:HB3	1:u:366:LEU:HD23	1.90	0.54
1:u:396:LEU:HD11	1:u:402:PHE:HB2	1.90	0.54
1:v:214:SER:HB3	1:w:397:ARG:HG3	1.89	0.54
1:v:367:THR:HG22	1:v:368:LEU:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:683:GLU:OE1	1:x:717:LEU:HG	2.08	0.54
1:y:396:LEU:HD11	1:y:402:PHE:HB2	1.90	0.54
1:2:396:LEU:HD11	1:2:402:PHE:HB2	1.90	0.54
1:7:683:GLU:OE1	1:7:717:LEU:HG	2.08	0.54
1:A:347:GLU:OE2	1:I:450:LYS:NZ	2.26	0.53
1:D:683:GLU:OE1	1:D:717:LEU:HG	2.08	0.53
1:I:396:LEU:HD11	1:I:402:PHE:HB2	1.90	0.53
1:J:683:GLU:OE1	1:J:717:LEU:HG	2.08	0.53
1:M:406:TYR:OH	1:M:627:ASN:O	2.22	0.53
1:T:214:SER:HB3	1:U:397:ARG:HG3	1.90	0.53
1:Y:406:TYR:OH	1:Y:627:ASN:O	2.22	0.53
1:a:683:GLU:OE1	1:a:717:LEU:HG	2.08	0.53
1:b:683:GLU:OE1	1:b:717:LEU:HG	2.08	0.53
1:k:683:GLU:OE1	1:k:717:LEU:HG	2.08	0.53
1:m:214:SER:HB3	1:s:397:ARG:HG3	1.90	0.53
1:m:429:PRO:HB3	1:n:366:LEU:HD23	1.90	0.53
1:z:495:ARG:NH2	1:2:560:ASN:HD22	2.06	0.53
1:2:214:SER:HB3	1:3:397:ARG:HG3	1.89	0.53
1:3:396:LEU:HD11	1:3:402:PHE:HB2	1.90	0.53
1:3:683:GLU:OE1	1:3:717:LEU:HG	2.08	0.53
1:A:367:THR:HG22	1:A:368:LEU:N	2.23	0.53
1:B:683:GLU:OE1	1:B:717:LEU:HG	2.08	0.53
1:M:396:LEU:HD11	1:M:402:PHE:HB2	1.90	0.53
1:T:683:GLU:OE1	1:T:717:LEU:HG	2.08	0.53
1:X:683:GLU:OE1	1:X:717:LEU:HG	2.08	0.53
1:f:396:LEU:HD11	1:f:402:PHE:HB2	1.90	0.53
1:o:683:GLU:OE1	1:o:717:LEU:HG	2.08	0.53
1:p:396:LEU:HD11	1:p:402:PHE:HB2	1.90	0.53
1:y:683:GLU:OE1	1:y:717:LEU:HG	2.08	0.53
1:1:683:GLU:OE1	1:1:717:LEU:HG	2.08	0.53
1:2:683:GLU:OE1	1:2:717:LEU:HG	2.08	0.53
1:4:683:GLU:OE1	1:4:717:LEU:HG	2.08	0.53
1:M:456:PHE:HA	1:M:459:TYR:CD2	2.44	0.53
1:O:429:PRO:HB3	1:m:366:LEU:HD23	1.90	0.53
1:R:396:LEU:HD11	1:R:402:PHE:HB2	1.90	0.53
1:T:429:PRO:HB3	1:d:366:LEU:HD23	1.90	0.53
1:V:396:LEU:HD11	1:V:402:PHE:HB2	1.90	0.53
1:X:396:LEU:HD11	1:X:402:PHE:HB2	1.90	0.53
1:Z:276:HIS:HB3	1:Z:599:LEU:HG	1.91	0.53
1:Z:456:PHE:HA	1:Z:459:TYR:CD2	2.44	0.53
1:e:683:GLU:OE1	1:e:717:LEU:HG	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:683:GLU:OE1	1:f:717:LEU:HG	2.08	0.53
1:g:406:TYR:OH	1:g:627:ASN:O	2.22	0.53
1:h:396:LEU:HD11	1:h:402:PHE:HB2	1.90	0.53
1:h:456:PHE:HA	1:h:459:TYR:CD2	2.44	0.53
1:k:406:TYR:OH	1:k:627:ASN:O	2.22	0.53
1:l:367:THR:HG22	1:l:368:LEU:N	2.23	0.53
1:m:456:PHE:HA	1:m:459:TYR:CD2	2.44	0.53
1:q:396:LEU:HD11	1:q:402:PHE:HB2	1.90	0.53
1:z:683:GLU:OE1	1:z:717:LEU:HG	2.08	0.53
1:8:276:HIS:HB3	1:8:599:LEU:HG	1.91	0.53
1:8:456:PHE:HA	1:8:459:TYR:CD2	2.44	0.53
1:C:397:ARG:HG3	1:D:214:SER:HB3	1.89	0.53
1:D:456:PHE:HA	1:D:459:TYR:CD2	2.44	0.53
1:E:331:PHE:HB3	1:E:393:SER:HA	1.91	0.53
1:G:214:SER:HB3	1:W:397:ARG:HG3	1.90	0.53
1:L:683:GLU:OE1	1:L:717:LEU:HG	2.08	0.53
1:T:331:PHE:HB3	1:T:393:SER:HA	1.91	0.53
1:T:366:LEU:HD23	1:l:429:PRO:HB3	1.90	0.53
1:U:276:HIS:HB3	1:U:599:LEU:HG	1.91	0.53
1:V:331:PHE:HB3	1:V:393:SER:HA	1.91	0.53
1:V:456:PHE:HA	1:V:459:TYR:CD2	2.44	0.53
1:W:456:PHE:HA	1:W:459:TYR:CD2	2.44	0.53
1:Z:683:GLU:OE1	1:Z:717:LEU:HG	2.08	0.53
1:b:396:LEU:HD11	1:b:402:PHE:HB2	1.90	0.53
1:c:683:GLU:OE1	1:c:717:LEU:HG	2.08	0.53
1:i:276:HIS:HB3	1:i:599:LEU:HG	1.91	0.53
1:j:396:LEU:HD11	1:j:402:PHE:HB2	1.90	0.53
1:k:456:PHE:HA	1:k:459:TYR:CD2	2.44	0.53
1:m:683:GLU:OE1	1:m:717:LEU:HG	2.08	0.53
1:o:367:THR:HG22	1:o:368:LEU:N	2.23	0.53
1:o:396:LEU:HD11	1:o:402:PHE:HB2	1.90	0.53
1:p:331:PHE:HB3	1:p:393:SER:HA	1.91	0.53
1:p:456:PHE:HA	1:p:459:TYR:CD2	2.44	0.53
1:s:276:HIS:HB3	1:s:599:LEU:HG	1.91	0.53
1:t:214:SER:HB3	1:6:397:ARG:HG3	1.90	0.53
1:w:331:PHE:HB3	1:w:393:SER:HA	1.91	0.53
1:1:456:PHE:HA	1:1:459:TYR:CD2	2.44	0.53
1:6:456:PHE:HA	1:6:459:TYR:CD2	2.44	0.53
1:8:683:GLU:OE1	1:8:717:LEU:HG	2.08	0.53
1:B:366:LEU:HD23	1:L:429:PRO:HB3	1.90	0.53
1:B:456:PHE:HA	1:B:459:TYR:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:456:PHE:HA	1:F:459:TYR:CD2	2.44	0.53
1:G:331:PHE:HB3	1:G:393:SER:HA	1.91	0.53
1:L:214:SER:HB3	1:b:397:ARG:HG3	1.89	0.53
1:L:456:PHE:HA	1:L:459:TYR:CD2	2.44	0.53
1:M:276:HIS:HB3	1:M:599:LEU:HG	1.91	0.53
1:M:366:LEU:HD23	1:b:429:PRO:HB3	1.90	0.53
1:N:276:HIS:HB3	1:N:599:LEU:HG	1.91	0.53
1:O:367:THR:HG22	1:O:368:LEU:N	2.23	0.53
1:P:396:LEU:HD11	1:P:402:PHE:HB2	1.90	0.53
1:T:276:HIS:HB3	1:T:599:LEU:HG	1.91	0.53
1:T:456:PHE:HA	1:T:459:TYR:CD2	2.44	0.53
1:X:347:GLU:OE2	1:e:450:LYS:NZ	2.26	0.53
1:X:367:THR:HG22	1:X:368:LEU:N	2.23	0.53
1:c:396:LEU:HD11	1:c:402:PHE:HB2	1.90	0.53
1:d:456:PHE:HA	1:d:459:TYR:CD2	2.44	0.53
1:e:331:PHE:HB3	1:e:393:SER:HA	1.91	0.53
1:f:429:PRO:HB3	1:h:366:LEU:HD23	1.90	0.53
1:j:450:LYS:NZ	1:k:347:GLU:OE2	2.26	0.53
1:k:396:LEU:HD11	1:k:402:PHE:HB2	1.90	0.53
1:l:397:ARG:HG3	1:n:214:SER:HB3	1.90	0.53
1:m:276:HIS:HB3	1:m:599:LEU:HG	1.91	0.53
1:m:331:PHE:HB3	1:m:393:SER:HA	1.91	0.53
1:z:456:PHE:HA	1:z:459:TYR:CD2	2.44	0.53
1:z:575:ALA:HA	1:1:482:ASN:ND2	2.24	0.53
1:6:683:GLU:OE1	1:6:717:LEU:HG	2.08	0.53
1:7:432:ASP:HB2	1:7:452:GLY:HA3	1.91	0.53
1:A:290:ASN:HD21	1:F:290:ASN:HD21	1.55	0.53
1:A:396:LEU:HD11	1:A:402:PHE:HB2	1.90	0.53
1:A:683:GLU:OE1	1:A:717:LEU:HG	2.08	0.53
1:F:331:PHE:HB3	1:F:393:SER:HA	1.91	0.53
1:G:456:PHE:HA	1:G:459:TYR:CD2	2.44	0.53
1:M:432:ASP:HB2	1:M:452:GLY:HA3	1.91	0.53
1:N:683:GLU:OE1	1:N:717:LEU:HG	2.08	0.53
1:O:366:LEU:HD23	1:n:429:PRO:HB3	1.90	0.53
1:O:397:ARG:HG3	1:d:214:SER:HB3	1.89	0.53
1:Q:276:HIS:HB3	1:Q:599:LEU:HG	1.91	0.53
1:R:456:PHE:HA	1:R:459:TYR:CD2	2.44	0.53
1:S:367:THR:HG22	1:S:368:LEU:N	2.23	0.53
1:T:396:LEU:HD11	1:T:402:PHE:HB2	1.90	0.53
1:V:683:GLU:OE1	1:V:717:LEU:HG	2.08	0.53
1:W:683:GLU:OE1	1:W:717:LEU:HG	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:366:LEU:HD23	1:e:429:PRO:HB3	1.90	0.53
1:Y:432:ASP:HB2	1:Y:452:GLY:HA3	1.91	0.53
1:Z:367:THR:HG22	1:Z:368:LEU:N	2.23	0.53
1:a:331:PHE:HB3	1:a:393:SER:HA	1.91	0.53
1:a:456:PHE:HA	1:a:459:TYR:CD2	2.44	0.53
1:c:331:PHE:HB3	1:c:393:SER:HA	1.91	0.53
1:c:366:LEU:HD23	1:p:429:PRO:HB3	1.90	0.53
1:d:276:HIS:HB3	1:d:599:LEU:HG	1.91	0.53
1:e:396:LEU:HD11	1:e:402:PHE:HB2	1.90	0.53
1:e:432:ASP:HB2	1:e:452:GLY:HA3	1.91	0.53
1:g:432:ASP:HB2	1:g:452:GLY:HA3	1.91	0.53
1:h:432:ASP:HB2	1:h:452:GLY:HA3	1.91	0.53
1:i:331:PHE:HB3	1:i:393:SER:HA	1.91	0.53
1:i:429:PRO:HB3	1:j:366:LEU:HD23	1.90	0.53
1:i:683:GLU:OE1	1:i:717:LEU:HG	2.08	0.53
1:m:396:LEU:HD11	1:m:402:PHE:HB2	1.90	0.53
1:n:276:HIS:HB3	1:n:599:LEU:HG	1.91	0.53
1:n:456:PHE:HA	1:n:459:TYR:CD2	2.44	0.53
1:p:683:GLU:OE1	1:p:717:LEU:HG	2.08	0.53
1:r:367:THR:HG22	1:r:368:LEU:N	2.23	0.53
1:t:331:PHE:HB3	1:t:393:SER:HA	1.91	0.53
1:u:214:SER:HB3	1:2:397:ARG:HG3	1.90	0.53
1:v:396:LEU:HD11	1:v:402:PHE:HB2	1.90	0.53
1:y:331:PHE:HB3	1:y:393:SER:HA	1.91	0.53
1:y:456:PHE:HA	1:y:459:TYR:CD2	2.44	0.53
1:3:456:PHE:HA	1:3:459:TYR:CD2	2.44	0.53
1:5:367:THR:HG22	1:5:368:LEU:N	2.23	0.53
1:C:432:ASP:HB2	1:C:452:GLY:HA3	1.91	0.53
1:D:366:LEU:HD23	1:P:429:PRO:HB3	1.90	0.53
1:D:396:LEU:HD11	1:D:402:PHE:HB2	1.90	0.53
1:F:276:HIS:HB3	1:F:599:LEU:HG	1.91	0.53
1:G:396:LEU:HD11	1:G:402:PHE:HB2	1.90	0.53
1:H:347:GLU:OE2	1:Y:450:LYS:NZ	2.25	0.53
1:I:214:SER:HB3	1:J:397:ARG:HG3	1.90	0.53
1:J:429:PRO:HB3	1:L:366:LEU:HD23	1.90	0.53
1:K:396:LEU:HD11	1:K:402:PHE:HB2	1.90	0.53
1:K:432:ASP:HB2	1:K:452:GLY:HA3	1.91	0.53
1:N:331:PHE:HB3	1:N:393:SER:HA	1.91	0.53
1:O:456:PHE:HA	1:O:459:TYR:CD2	2.44	0.53
1:R:432:ASP:HB2	1:R:452:GLY:HA3	1.91	0.53
1:S:276:HIS:HB3	1:S:599:LEU:HG	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:683:GLU:OE1	1:S:717:LEU:HG	2.08	0.53
1:Y:276:HIS:HB3	1:Y:599:LEU:HG	1.91	0.53
1:c:429:PRO:HB3	1:o:366:LEU:HD23	1.90	0.53
1:c:432:ASP:HB2	1:c:452:GLY:HA3	1.91	0.53
1:h:276:HIS:HB3	1:h:599:LEU:HG	1.91	0.53
1:i:366:LEU:HD23	1:k:429:PRO:HB3	1.90	0.53
1:j:429:PRO:HB3	1:k:366:LEU:HD23	1.90	0.53
1:m:432:ASP:HB2	1:m:452:GLY:HA3	1.91	0.53
1:q:456:PHE:HA	1:q:459:TYR:CD2	2.44	0.53
1:r:276:HIS:HB3	1:r:599:LEU:HG	1.91	0.53
1:t:456:PHE:HA	1:t:459:TYR:CD2	2.44	0.53
1:v:432:ASP:HB2	1:v:452:GLY:HA3	1.91	0.53
1:v:683:GLU:OE1	1:v:717:LEU:HG	2.08	0.53
1:x:276:HIS:HB3	1:x:599:LEU:HG	1.91	0.53
1:y:276:HIS:HB3	1:y:599:LEU:HG	1.91	0.53
1:3:276:HIS:HB3	1:3:599:LEU:HG	1.91	0.53
1:3:331:PHE:HB3	1:3:393:SER:HA	1.91	0.53
1:4:432:ASP:HB2	1:4:452:GLY:HA3	1.91	0.53
1:8:367:THR:HG22	1:8:368:LEU:N	2.23	0.53
1:A:366:LEU:HD23	1:I:429:PRO:HB3	1.90	0.53
1:A:429:PRO:HB3	1:G:366:LEU:HD23	1.90	0.53
1:A:432:ASP:HB2	1:A:452:GLY:HA3	1.91	0.53
1:C:367:THR:HG22	1:C:368:LEU:N	2.23	0.53
1:D:276:HIS:HB3	1:D:599:LEU:HG	1.91	0.53
1:D:429:PRO:HB3	1:N:366:LEU:HD23	1.90	0.53
1:E:276:HIS:HB3	1:E:599:LEU:HG	1.91	0.53
1:G:276:HIS:HB3	1:G:599:LEU:HG	1.91	0.53
1:H:367:THR:HG22	1:H:368:LEU:N	2.23	0.53
1:J:456:PHE:HA	1:J:459:TYR:CD2	2.44	0.53
1:M:683:GLU:OE1	1:M:717:LEU:HG	2.08	0.53
1:N:429:PRO:HB3	1:P:366:LEU:HD23	1.90	0.53
1:U:331:PHE:HB3	1:U:393:SER:HA	1.91	0.53
1:V:429:PRO:HB3	1:e:366:LEU:HD23	1.90	0.53
1:W:432:ASP:HB2	1:W:452:GLY:HA3	1.91	0.53
1:b:432:ASP:HB2	1:b:452:GLY:HA3	1.91	0.53
1:c:276:HIS:HB3	1:c:599:LEU:HG	1.91	0.53
1:d:396:LEU:HD11	1:d:402:PHE:HB2	1.90	0.53
1:e:276:HIS:HB3	1:e:599:LEU:HG	1.91	0.53
1:f:432:ASP:HB2	1:f:452:GLY:HA3	1.91	0.53
1:k:276:HIS:HB3	1:k:599:LEU:HG	1.91	0.53
1:l:456:PHE:HA	1:l:459:TYR:CD2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:396:LEU:HD11	1:n:402:PHE:HB2	1.90	0.53
1:q:429:PRO:HB3	1:r:366:LEU:HD23	1.91	0.53
1:q:432:ASP:HB2	1:q:452:GLY:HA3	1.91	0.53
1:s:331:PHE:HB3	1:s:393:SER:HA	1.91	0.53
1:t:366:LEU:HD23	1:v:429:PRO:HB3	1.90	0.53
1:t:396:LEU:HD11	1:t:402:PHE:HB2	1.90	0.53
1:w:276:HIS:HB3	1:w:599:LEU:HG	1.91	0.53
1:z:367:THR:HG22	1:z:368:LEU:N	2.23	0.53
1:2:331:PHE:HB3	1:2:393:SER:HA	1.91	0.53
1:2:456:PHE:HA	1:2:459:TYR:CD2	2.44	0.53
1:3:366:LEU:HD23	1:4:429:PRO:HB3	1.90	0.53
1:4:396:LEU:HD11	1:4:402:PHE:HB2	1.90	0.53
1:5:456:PHE:HA	1:5:459:TYR:CD2	2.44	0.53
1:7:276:HIS:HB3	1:7:599:LEU:HG	1.91	0.53
1:8:396:LEU:HD11	1:8:402:PHE:HB2	1.90	0.53
1:H:429:PRO:HB3	1:W:366:LEU:HD23	1.90	0.53
1:H:456:PHE:HA	1:H:459:TYR:CD2	2.44	0.53
1:J:331:PHE:HB3	1:J:393:SER:HA	1.91	0.53
1:N:456:PHE:HA	1:N:459:TYR:CD2	2.44	0.53
1:O:214:SER:HB3	1:P:397:ARG:HG3	1.90	0.53
1:P:331:PHE:HB3	1:P:393:SER:HA	1.91	0.53
1:R:429:PRO:HB3	1:S:366:LEU:HD23	1.91	0.53
1:T:432:ASP:HB2	1:T:452:GLY:HA3	1.91	0.53
1:Z:366:LEU:HD23	1:3:429:PRO:HB3	1.90	0.53
1:Z:396:LEU:HD11	1:Z:402:PHE:HB2	1.90	0.53
1:a:276:HIS:HB3	1:a:599:LEU:HG	1.91	0.53
1:a:432:ASP:HB2	1:a:452:GLY:HA3	1.91	0.53
1:d:429:PRO:HB3	1:l:366:LEU:HD23	1.90	0.53
1:f:276:HIS:HB3	1:f:599:LEU:HG	1.91	0.53
1:j:331:PHE:HB3	1:j:393:SER:HA	1.91	0.53
1:s:396:LEU:HD11	1:s:402:PHE:HB2	1.90	0.53
1:t:276:HIS:HB3	1:t:599:LEU:HG	1.91	0.53
1:u:429:PRO:HB3	1:v:366:LEU:HD23	1.90	0.53
1:v:290:ASN:HD21	1:y:290:ASN:HD21	1.55	0.53
1:w:396:LEU:HD11	1:w:402:PHE:HB2	1.90	0.53
1:x:432:ASP:HB2	1:x:452:GLY:HA3	1.91	0.53
1:z:429:PRO:HB3	1:1:366:LEU:HD23	1.90	0.53
1:4:439:ASP:OD1	1:4:440:ALA:N	2.42	0.53
1:5:429:PRO:HB3	1:6:366:LEU:HD23	1.90	0.53
1:B:331:PHE:HB3	1:B:393:SER:HA	1.91	0.53
1:B:396:LEU:HD11	1:B:402:PHE:HB2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:331:PHE:HB3	1:D:393:SER:HA	1.91	0.53
1:D:347:GLU:OE2	1:P:450:LYS:NZ	2.25	0.53
1:E:396:LEU:HD11	1:E:402:PHE:HB2	1.90	0.53
1:H:276:HIS:HB3	1:H:599:LEU:HG	1.91	0.53
1:I:331:PHE:HB3	1:I:393:SER:HA	1.91	0.53
1:I:596:ASP:OD1	1:I:714:THR:HG22	2.09	0.53
1:J:290:ASN:HD21	1:K:290:ASN:HD21	1.55	0.53
1:K:429:PRO:HB3	1:a:366:LEU:HD23	1.90	0.53
1:L:367:THR:HG22	1:L:368:LEU:N	2.23	0.53
1:L:439:ASP:OD1	1:L:440:ALA:N	2.42	0.53
1:M:331:PHE:HB3	1:M:393:SER:HA	1.91	0.53
1:M:596:ASP:OD1	1:M:714:THR:HG22	2.09	0.53
1:O:439:ASP:OD1	1:O:440:ALA:N	2.42	0.53
1:Q:396:LEU:HD11	1:Q:402:PHE:HB2	1.90	0.53
1:Q:432:ASP:HB2	1:Q:452:GLY:HA3	1.91	0.53
1:a:429:PRO:HB3	1:8:366:LEU:HD23	1.90	0.53
1:c:450:LYS:NZ	1:o:347:GLU:OE2	2.26	0.53
1:d:367:THR:HG22	1:d:368:LEU:N	2.23	0.53
1:g:367:THR:HG22	1:g:368:LEU:N	2.23	0.53
1:h:331:PHE:HB3	1:h:393:SER:HA	1.91	0.53
1:h:683:GLU:OE1	1:h:717:LEU:HG	2.08	0.53
1:i:456:PHE:HA	1:i:459:TYR:CD2	2.44	0.53
1:n:367:THR:HG22	1:n:368:LEU:N	2.23	0.53
1:o:439:ASP:OD1	1:o:440:ALA:N	2.42	0.53
1:r:396:LEU:HD11	1:r:402:PHE:HB2	1.90	0.53
1:r:683:GLU:OE1	1:r:717:LEU:HG	2.08	0.53
1:t:290:ASN:HD21	1:5:290:ASN:HD21	1.55	0.53
1:u:331:PHE:HB3	1:u:393:SER:HA	1.91	0.53
1:u:596:ASP:OD1	1:u:714:THR:HG22	2.09	0.53
1:z:439:ASP:OD1	1:z:440:ALA:N	2.42	0.53
1:1:396:LEU:HD11	1:1:402:PHE:HB2	1.90	0.53
1:1:596:ASP:OD1	1:1:714:THR:HG22	2.09	0.53
1:2:290:ASN:HD21	1:4:290:ASN:HD21	1.55	0.53
1:3:432:ASP:HB2	1:3:452:GLY:HA3	1.91	0.53
1:5:347:GLU:OE2	1:7:450:LYS:NZ	2.25	0.53
1:5:396:LEU:HD11	1:5:402:PHE:HB2	1.90	0.53
1:6:432:ASP:HB2	1:6:452:GLY:HA3	1.91	0.53
1:A:439:ASP:OD1	1:A:440:ALA:N	2.42	0.52
1:B:596:ASP:OD1	1:B:714:THR:HG22	2.10	0.52
1:C:366:LEU:HD23	1:M:429:PRO:HB3	1.90	0.52
1:F:439:ASP:OD1	1:F:440:ALA:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:439:ASP:OD1	1:K:440:ALA:N	2.43	0.52
1:Q:367:THR:HG22	1:Q:368:LEU:N	2.23	0.52
1:S:396:LEU:HD11	1:S:402:PHE:HB2	1.90	0.52
1:S:596:ASP:OD1	1:S:714:THR:HG22	2.09	0.52
1:T:467:PRO:HD3	1:T:590:MET:HE3	1.92	0.52
1:U:396:LEU:HD11	1:U:402:PHE:HB2	1.90	0.52
1:W:596:ASP:OD1	1:W:714:THR:HG22	2.10	0.52
1:Y:331:PHE:HB3	1:Y:393:SER:HA	1.91	0.52
1:Y:596:ASP:OD1	1:Y:714:THR:HG22	2.10	0.52
1:b:276:HIS:HB3	1:b:599:LEU:HG	1.91	0.52
1:c:456:PHE:HA	1:c:459:TYR:CD2	2.44	0.52
1:g:366:LEU:HD23	1:h:429:PRO:HB3	1.90	0.52
1:h:596:ASP:OD1	1:h:714:THR:HG22	2.09	0.52
1:i:367:THR:HG22	1:i:368:LEU:N	2.23	0.52
1:j:397:ARG:HG3	1:l:214:SER:HB3	1.90	0.52
1:k:331:PHE:HB3	1:k:393:SER:HA	1.91	0.52
1:l:331:PHE:HB3	1:l:393:SER:HA	1.91	0.52
1:l:439:ASP:OD1	1:l:440:ALA:N	2.42	0.52
1:o:429:PRO:HB3	1:p:366:LEU:HD23	1.90	0.52
1:t:432:ASP:HB2	1:t:452:GLY:HA3	1.91	0.52
1:u:456:PHE:HA	1:u:459:TYR:CD2	2.44	0.52
1:w:450:LYS:NZ	1:x:347:GLU:OE2	2.25	0.52
1:x:396:LEU:HD11	1:x:402:PHE:HB2	1.90	0.52
1:y:439:ASP:OD1	1:y:440:ALA:N	2.42	0.52
1:1:331:PHE:HB3	1:1:393:SER:HA	1.91	0.52
1:5:276:HIS:HB3	1:5:599:LEU:HG	1.91	0.52
1:5:397:ARG:HG3	1:8:214:SER:HB3	1.90	0.52
1:6:596:ASP:OD1	1:6:714:THR:HG22	2.10	0.52
1:G:290:ASN:HD21	1:H:290:ASN:HD21	1.55	0.52
1:H:396:LEU:HD11	1:H:402:PHE:HB2	1.90	0.52
1:H:397:ARG:HG3	1:Z:214:SER:HB3	1.90	0.52
1:H:432:ASP:HB2	1:H:452:GLY:HA3	1.91	0.52
1:I:276:HIS:HB3	1:I:599:LEU:HG	1.91	0.52
1:I:432:ASP:HB2	1:I:452:GLY:HA3	1.91	0.52
1:N:367:THR:HG22	1:N:368:LEU:N	2.23	0.52
1:O:331:PHE:HB3	1:O:393:SER:HA	1.91	0.52
1:O:432:ASP:HB2	1:O:452:GLY:HA3	1.91	0.52
1:Q:214:SER:HB3	1:S:397:ARG:HG3	1.90	0.52
1:Q:439:ASP:OD1	1:Q:440:ALA:N	2.42	0.52
1:U:439:ASP:OD1	1:U:440:ALA:N	2.42	0.52
1:V:596:ASP:OD1	1:V:714:THR:HG22	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:429:PRO:HB3	1:Y:366:LEU:HD23	1.90	0.52
1:X:439:ASP:OD1	1:X:440:ALA:N	2.42	0.52
1:Z:439:ASP:OD1	1:Z:440:ALA:N	2.42	0.52
1:a:290:ASN:HD21	1:3:290:ASN:HD21	1.56	0.52
1:a:596:ASP:OD1	1:a:714:THR:HG22	2.10	0.52
1:f:397:ARG:HE	1:z:214:SER:HA	1.75	0.52
1:i:467:PRO:HD3	1:i:590:MET:HE3	1.92	0.52
1:m:467:PRO:HD3	1:m:590:MET:HE3	1.92	0.52
1:n:683:GLU:OE1	1:n:717:LEU:HG	2.08	0.52
1:r:397:ARG:HG3	1:x:214:SER:HB3	1.90	0.52
1:r:596:ASP:OD1	1:r:714:THR:HG22	2.09	0.52
1:s:439:ASP:OD1	1:s:440:ALA:N	2.42	0.52
1:u:276:HIS:HB3	1:u:599:LEU:HG	1.91	0.52
1:v:439:ASP:OD1	1:v:440:ALA:N	2.42	0.52
1:x:439:ASP:OD1	1:x:440:ALA:N	2.42	0.52
1:4:456:PHE:HA	1:4:459:TYR:CD2	2.44	0.52
1:5:432:ASP:HB2	1:5:452:GLY:HA3	1.91	0.52
1:6:429:PRO:HB3	1:7:366:LEU:HD23	1.90	0.52
1:7:331:PHE:HB3	1:7:393:SER:HA	1.91	0.52
1:7:596:ASP:OD1	1:7:714:THR:HG22	2.10	0.52
1:8:432:ASP:HB2	1:8:452:GLY:HA3	1.91	0.52
1:8:439:ASP:OD1	1:8:440:ALA:N	2.42	0.52
1:C:290:ASN:HD21	1:L:290:ASN:HD21	1.55	0.52
1:F:596:ASP:OD1	1:F:714:THR:HG22	2.10	0.52
1:G:432:ASP:HB2	1:G:452:GLY:HA3	1.91	0.52
1:I:439:ASP:OD1	1:I:440:ALA:N	2.42	0.52
1:I:456:PHE:HA	1:I:459:TYR:CD2	2.44	0.52
1:K:456:PHE:HA	1:K:459:TYR:CD2	2.44	0.52
1:O:396:LEU:HD11	1:O:402:PHE:HB2	1.90	0.52
1:P:432:ASP:HB2	1:P:452:GLY:HA3	1.91	0.52
1:P:456:PHE:HA	1:P:459:TYR:CD2	2.44	0.52
1:Q:456:PHE:HA	1:Q:459:TYR:CD2	2.44	0.52
1:R:439:ASP:OD1	1:R:440:ALA:N	2.42	0.52
1:R:467:PRO:HD3	1:R:590:MET:HE3	1.92	0.52
1:U:456:PHE:HA	1:U:459:TYR:CD2	2.44	0.52
1:V:366:LEU:HD23	1:X:429:PRO:HB3	1.90	0.52
1:W:439:ASP:OD1	1:W:440:ALA:N	2.42	0.52
1:Y:456:PHE:HA	1:Y:459:TYR:CD2	2.44	0.52
1:Z:432:ASP:HB2	1:Z:452:GLY:HA3	1.91	0.52
1:b:331:PHE:HB3	1:b:393:SER:HA	1.91	0.52
1:d:439:ASP:OD1	1:d:440:ALA:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:456:PHE:HA	1:e:459:TYR:CD2	2.44	0.52
1:h:439:ASP:OD1	1:h:440:ALA:N	2.42	0.52
1:l:432:ASP:HB2	1:l:452:GLY:HA3	1.91	0.52
1:n:432:ASP:HB2	1:n:452:GLY:HA3	1.91	0.52
1:n:439:ASP:OD1	1:n:440:ALA:N	2.42	0.52
1:n:467:PRO:HD3	1:n:590:MET:HE3	1.92	0.52
1:p:596:ASP:OD1	1:p:714:THR:HG22	2.09	0.52
1:q:467:PRO:HD3	1:q:590:MET:HE3	1.92	0.52
1:s:456:PHE:HA	1:s:459:TYR:CD2	2.44	0.52
1:u:432:ASP:HB2	1:u:452:GLY:HA3	1.91	0.52
1:u:439:ASP:OD1	1:u:440:ALA:N	2.42	0.52
1:x:367:THR:HG22	1:x:368:LEU:N	2.23	0.52
1:x:456:PHE:HA	1:x:459:TYR:CD2	2.44	0.52
1:y:596:ASP:OD1	1:y:714:THR:HG22	2.10	0.52
1:z:467:PRO:HD3	1:z:590:MET:HE3	1.92	0.52
1:3:596:ASP:OD1	1:3:714:THR:HG22	2.10	0.52
1:5:450:LYS:NZ	1:6:347:GLU:OE2	2.26	0.52
1:6:439:ASP:OD1	1:6:440:ALA:N	2.42	0.52
1:7:456:PHE:HA	1:7:459:TYR:CD2	2.44	0.52
1:B:560:ASN:HD22	1:J:495:ARG:NH2	2.07	0.52
1:C:456:PHE:HA	1:C:459:TYR:CD2	2.44	0.52
1:F:367:THR:HG22	1:F:368:LEU:N	2.23	0.52
1:H:450:LYS:NZ	1:W:347:GLU:OE2	2.25	0.52
1:J:367:THR:HG22	1:J:368:LEU:N	2.23	0.52
1:J:439:ASP:OD1	1:J:440:ALA:N	2.42	0.52
1:K:276:HIS:HB3	1:K:599:LEU:HG	1.91	0.52
1:L:331:PHE:HB3	1:L:393:SER:HA	1.91	0.52
1:L:467:PRO:HD3	1:L:590:MET:HE3	1.92	0.52
1:N:467:PRO:HD3	1:N:590:MET:HE3	1.92	0.52
1:T:495:ARG:NH2	1:l:560:ASN:HD22	2.08	0.52
1:V:467:PRO:HD3	1:V:590:MET:HE3	1.92	0.52
1:W:367:THR:HG22	1:W:368:LEU:N	2.23	0.52
1:c:347:GLU:OE2	1:p:450:LYS:NZ	2.26	0.52
1:d:467:PRO:HD3	1:d:590:MET:HE3	1.92	0.52
1:d:683:GLU:OE1	1:d:717:LEU:HG	2.08	0.52
1:f:467:PRO:HD3	1:f:590:MET:HE3	1.92	0.52
1:j:432:ASP:HB2	1:j:452:GLY:HA3	1.91	0.52
1:j:456:PHE:HA	1:j:459:TYR:CD2	2.44	0.52
1:l:396:LEU:HD11	1:l:402:PHE:HB2	1.90	0.52
1:p:467:PRO:HD3	1:p:590:MET:HE3	1.92	0.52
1:q:439:ASP:OD1	1:q:440:ALA:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:596:ASP:OD1	1:s:714:THR:HG22	2.09	0.52
1:u:683:GLU:OE1	1:u:717:LEU:HG	2.08	0.52
1:w:439:ASP:OD1	1:w:440:ALA:N	2.42	0.52
1:y:367:THR:HG22	1:y:368:LEU:N	2.23	0.52
1:z:331:PHE:HB3	1:z:393:SER:HA	1.91	0.52
1:z:397:ARG:HG3	1:4:214:SER:HB3	1.92	0.52
1:2:439:ASP:OD1	1:2:440:ALA:N	2.43	0.52
1:5:495:ARG:NH2	1:7:560:ASN:HD22	2.08	0.52
1:6:367:THR:HG22	1:6:368:LEU:N	2.23	0.52
1:E:429:PRO:HB3	1:Q:366:LEU:HD23	1.90	0.52
1:E:439:ASP:OD1	1:E:440:ALA:N	2.42	0.52
1:E:456:PHE:HA	1:E:459:TYR:CD2	2.44	0.52
1:G:439:ASP:OD1	1:G:440:ALA:N	2.42	0.52
1:G:467:PRO:HD3	1:G:590:MET:HE3	1.92	0.52
1:H:331:PHE:HB3	1:H:393:SER:HA	1.91	0.52
1:H:467:PRO:HD3	1:H:590:MET:HE3	1.92	0.52
1:H:495:ARG:NH2	1:Y:560:ASN:HD22	2.08	0.52
1:H:596:ASP:OD1	1:H:714:THR:HG22	2.09	0.52
1:I:467:PRO:HD3	1:I:590:MET:HE3	1.92	0.52
1:J:432:ASP:HB2	1:J:452:GLY:HA3	1.91	0.52
1:K:331:PHE:HB3	1:K:393:SER:HA	1.91	0.52
1:L:396:LEU:HD11	1:L:402:PHE:HB2	1.90	0.52
1:L:432:ASP:HB2	1:L:452:GLY:HA3	1.91	0.52
1:M:439:ASP:OD1	1:M:440:ALA:N	2.42	0.52
1:M:495:ARG:NH2	1:b:560:ASN:HD22	2.08	0.52
1:O:560:ASN:HD22	1:m:495:ARG:NH2	2.08	0.52
1:R:560:ASN:HD22	1:S:495:ARG:NH2	2.07	0.52
1:T:596:ASP:OD1	1:T:714:THR:HG22	2.09	0.52
1:U:596:ASP:OD1	1:U:714:THR:HG22	2.09	0.52
1:Y:367:THR:HG22	1:Y:368:LEU:N	2.23	0.52
1:a:560:ASN:HD22	1:8:495:ARG:NH2	2.08	0.52
1:b:467:PRO:HD3	1:b:590:MET:HE3	1.92	0.52
1:d:432:ASP:HB2	1:d:452:GLY:HA3	1.91	0.52
1:f:331:PHE:HB3	1:f:393:SER:HA	1.91	0.52
1:g:331:PHE:HB3	1:g:393:SER:HA	1.91	0.52
1:k:439:ASP:OD1	1:k:440:ALA:N	2.42	0.52
1:m:367:THR:HG22	1:m:368:LEU:N	2.23	0.52
1:p:439:ASP:OD1	1:p:440:ALA:N	2.42	0.52
1:q:331:PHE:HB3	1:q:393:SER:HA	1.91	0.52
1:t:467:PRO:HD3	1:t:590:MET:HE3	1.92	0.52
1:u:684:ILE:HD11	1:v:381:PRO:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:429:PRO:HB3	1:x:366:LEU:HD23	1.90	0.52
1:x:331:PHE:HB3	1:x:393:SER:HA	1.91	0.52
1:z:432:ASP:HB2	1:z:452:GLY:HA3	1.91	0.52
1:2:276:HIS:HB3	1:2:599:LEU:HG	1.91	0.52
1:2:432:ASP:HB2	1:2:452:GLY:HA3	1.91	0.52
1:4:367:THR:HG22	1:4:368:LEU:N	2.22	0.52
1:5:467:PRO:HD3	1:5:590:MET:HE3	1.92	0.52
1:5:596:ASP:OD1	1:5:714:THR:HG22	2.09	0.52
1:7:396:LEU:HD11	1:7:402:PHE:HB2	1.90	0.52
1:A:381:PRO:HB2	1:I:684:ILE:HD11	1.92	0.52
1:C:331:PHE:HB3	1:C:393:SER:HA	1.91	0.52
1:C:495:ARG:NH2	1:M:560:ASN:HD22	2.08	0.52
1:D:439:ASP:OD1	1:D:440:ALA:N	2.42	0.52
1:E:450:LYS:NZ	1:Q:347:GLU:OE2	2.25	0.52
1:E:596:ASP:OD1	1:E:714:THR:HG22	2.09	0.52
1:J:684:ILE:HD11	1:L:381:PRO:HB2	1.92	0.52
1:N:439:ASP:OD1	1:N:440:ALA:N	2.42	0.52
1:O:276:HIS:HB3	1:O:599:LEU:HG	1.91	0.52
1:P:467:PRO:HD3	1:P:590:MET:HE3	1.92	0.52
1:R:331:PHE:HB3	1:R:393:SER:HA	1.91	0.52
1:S:331:PHE:HB3	1:S:393:SER:HA	1.91	0.52
1:S:432:ASP:HB2	1:S:452:GLY:HA3	1.91	0.52
1:T:367:THR:HG22	1:T:368:LEU:N	2.23	0.52
1:V:439:ASP:OD1	1:V:440:ALA:N	2.42	0.52
1:X:596:ASP:OD1	1:X:714:THR:HG22	2.09	0.52
1:Y:396:LEU:HD11	1:Y:402:PHE:HB2	1.90	0.52
1:Z:495:ARG:NH2	1:3:560:ASN:HD22	2.08	0.52
1:a:439:ASP:OD1	1:a:440:ALA:N	2.42	0.52
1:f:439:ASP:OD1	1:f:440:ALA:N	2.42	0.52
1:f:560:ASN:HD22	1:h:495:ARG:NH2	2.08	0.52
1:g:456:PHE:HA	1:g:459:TYR:CD2	2.44	0.52
1:i:495:ARG:NH2	1:k:560:ASN:HD22	2.08	0.52
1:j:467:PRO:HD3	1:j:590:MET:HE3	1.92	0.52
1:l:276:HIS:HB3	1:l:599:LEU:HG	1.91	0.52
1:m:439:ASP:OD1	1:m:440:ALA:N	2.43	0.52
1:m:596:ASP:OD1	1:m:714:THR:HG22	2.09	0.52
1:o:596:ASP:OD1	1:o:714:THR:HG22	2.09	0.52
1:q:560:ASN:HD22	1:r:495:ARG:NH2	2.07	0.52
1:r:432:ASP:HB2	1:r:452:GLY:HA3	1.91	0.52
1:t:439:ASP:OD1	1:t:440:ALA:N	2.42	0.52
1:w:456:PHE:HA	1:w:459:TYR:CD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:396:LEU:HD11	1:z:402:PHE:HB2	1.90	0.52
1:2:367:THR:HG22	1:2:368:LEU:N	2.23	0.52
1:5:331:PHE:HB3	1:5:393:SER:HA	1.91	0.52
1:7:367:THR:HG22	1:7:368:LEU:N	2.23	0.52
1:A:456:PHE:HA	1:A:459:TYR:CD2	2.44	0.52
1:A:467:PRO:HD3	1:A:590:MET:HE3	1.92	0.52
1:C:439:ASP:OD1	1:C:440:ALA:N	2.42	0.52
1:C:684:ILE:HD11	1:b:381:PRO:HB2	1.92	0.52
1:D:560:ASN:HD22	1:N:495:ARG:NH2	2.08	0.52
1:E:495:ARG:NH2	1:F:560:ASN:HD22	2.08	0.52
1:H:439:ASP:OD1	1:H:440:ALA:N	2.42	0.52
1:I:367:THR:HG22	1:I:368:LEU:N	2.23	0.52
1:I:683:GLU:OE1	1:I:717:LEU:HG	2.08	0.52
1:J:276:HIS:HB3	1:J:599:LEU:HG	1.91	0.52
1:L:596:ASP:OD1	1:L:714:THR:HG22	2.09	0.52
1:Q:331:PHE:HB3	1:Q:393:SER:HA	1.91	0.52
1:R:495:ARG:NH2	1:U:560:ASN:HD22	2.08	0.52
1:S:456:PHE:HA	1:S:459:TYR:CD2	2.44	0.52
1:S:560:ASN:HD22	1:U:495:ARG:NH2	2.08	0.52
1:T:439:ASP:OD1	1:T:440:ALA:N	2.42	0.52
1:V:276:HIS:HB3	1:V:599:LEU:HG	1.91	0.52
1:V:495:ARG:NH2	1:X:560:ASN:HD22	2.08	0.52
1:W:331:PHE:HB3	1:W:393:SER:HA	1.91	0.52
1:X:432:ASP:HB2	1:X:452:GLY:HA3	1.91	0.52
1:X:456:PHE:HA	1:X:459:TYR:CD2	2.44	0.52
1:X:495:ARG:NH2	1:e:560:ASN:HD22	2.08	0.52
1:b:439:ASP:OD1	1:b:440:ALA:N	2.42	0.52
1:c:560:ASN:HD22	1:o:495:ARG:NH2	2.08	0.52
1:g:495:ARG:NH2	1:h:560:ASN:HD22	2.08	0.52
1:i:439:ASP:OD1	1:i:440:ALA:N	2.42	0.52
1:j:439:ASP:OD1	1:j:440:ALA:N	2.42	0.52
1:m:560:ASN:HD22	1:n:495:ARG:NH2	2.08	0.52
1:n:331:PHE:HB3	1:n:393:SER:HA	1.91	0.52
1:o:432:ASP:HB2	1:o:452:GLY:HA3	1.91	0.52
1:o:456:PHE:HA	1:o:459:TYR:CD2	2.44	0.52
1:q:495:ARG:NH2	1:s:560:ASN:HD22	2.07	0.52
1:r:331:PHE:HB3	1:r:393:SER:HA	1.91	0.52
1:r:560:ASN:HD22	1:s:495:ARG:NH2	2.08	0.52
1:s:467:PRO:HD3	1:s:590:MET:HE3	1.92	0.52
1:t:381:PRO:HB2	1:v:684:ILE:HD11	1.92	0.52
1:w:495:ARG:NH2	1:y:560:ASN:HD22	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:596:ASP:OD1	1:w:714:THR:HG22	2.10	0.52
1:z:276:HIS:HB3	1:z:599:LEU:HG	1.91	0.52
1:z:596:ASP:OD1	1:z:714:THR:HG22	2.10	0.52
1:1:560:ASN:HD22	1:2:495:ARG:NH2	2.07	0.52
1:3:439:ASP:OD1	1:3:440:ALA:N	2.42	0.52
1:4:276:HIS:HB3	1:4:599:LEU:HG	1.91	0.52
1:4:331:PHE:HB3	1:4:393:SER:HA	1.91	0.52
1:5:439:ASP:OD1	1:5:440:ALA:N	2.42	0.52
1:6:331:PHE:HB3	1:6:393:SER:HA	1.91	0.52
1:7:290:ASN:HD21	1:8:290:ASN:HD21	1.55	0.52
1:A:684:ILE:HD11	1:G:381:PRO:HB2	1.92	0.52
1:B:432:ASP:HB2	1:B:452:GLY:HA3	1.91	0.52
1:B:467:PRO:HD3	1:B:590:MET:HE3	1.92	0.52
1:F:432:ASP:HB2	1:F:452:GLY:HA3	1.91	0.52
1:G:596:ASP:OD1	1:G:714:THR:HG22	2.09	0.52
1:K:596:ASP:OD1	1:K:714:THR:HG22	2.09	0.52
1:L:276:HIS:HB3	1:L:599:LEU:HG	1.91	0.52
1:P:439:ASP:OD1	1:P:440:ALA:N	2.42	0.52
1:P:596:ASP:OD1	1:P:714:THR:HG22	2.09	0.52
1:T:560:ASN:HD22	1:d:495:ARG:NH2	2.08	0.52
1:U:432:ASP:HB2	1:U:452:GLY:HA3	1.91	0.52
1:U:467:PRO:HD3	1:U:590:MET:HE3	1.92	0.52
1:X:276:HIS:HB3	1:X:599:LEU:HG	1.91	0.52
1:Z:331:PHE:HB3	1:Z:393:SER:HA	1.91	0.52
1:Z:429:PRO:HB3	1:4:366:LEU:HD23	1.90	0.52
1:f:381:PRO:HB2	1:g:684:ILE:HD11	1.92	0.52
1:g:439:ASP:OD1	1:g:440:ALA:N	2.43	0.52
1:i:432:ASP:HB2	1:i:452:GLY:HA3	1.91	0.52
1:o:276:HIS:HB3	1:o:599:LEU:HG	1.91	0.52
1:o:560:ASN:HD22	1:p:495:ARG:NH2	2.08	0.52
1:r:473:GLN:HE22	1:r:559:ASN:HB3	1.75	0.52
1:s:432:ASP:HB2	1:s:452:GLY:HA3	1.91	0.52
1:t:596:ASP:OD1	1:t:714:THR:HG22	2.09	0.52
1:u:467:PRO:HD3	1:u:590:MET:HE3	1.92	0.52
1:v:456:PHE:HA	1:v:459:TYR:CD2	2.44	0.52
1:v:467:PRO:HD3	1:v:590:MET:HE3	1.92	0.52
1:1:432:ASP:HB2	1:1:452:GLY:HA3	1.91	0.52
1:4:596:ASP:OD1	1:4:714:THR:HG22	2.09	0.52
1:8:331:PHE:HB3	1:8:393:SER:HA	1.91	0.52
1:B:439:ASP:OD1	1:B:440:ALA:N	2.42	0.52
1:K:367:THR:HG22	1:K:368:LEU:N	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:495:ARG:NH2	1:8:560:ASN:HD22	2.08	0.52
1:N:432:ASP:HB2	1:N:452:GLY:HA3	1.91	0.52
1:Q:596:ASP:OD1	1:Q:714:THR:HG22	2.09	0.52
1:S:473:GLN:HE22	1:S:559:ASN:HB3	1.75	0.52
1:V:560:ASN:HD22	1:e:495:ARG:NH2	2.08	0.52
1:Z:560:ASN:HD22	1:4:495:ARG:NH2	2.08	0.52
1:a:456:PHE:HA	1:a:459:TYR:HD2	1.75	0.52
1:d:450:LYS:NZ	1:l:347:GLU:OE2	2.26	0.52
1:d:473:GLN:HE22	1:d:559:ASN:HB3	1.75	0.52
1:g:596:ASP:OD1	1:g:714:THR:HG22	2.09	0.52
1:j:596:ASP:OD1	1:j:714:THR:HG22	2.09	0.52
1:k:596:ASP:OD1	1:k:714:THR:HG22	2.10	0.52
1:m:450:LYS:NZ	1:n:347:GLU:OE2	2.26	0.52
1:p:269:TYR:HB3	1:p:633:LEU:HD23	1.92	0.52
1:p:276:HIS:HB3	1:p:599:LEU:HG	1.91	0.52
1:p:432:ASP:HB2	1:p:452:GLY:HA3	1.91	0.52
1:r:456:PHE:HA	1:r:459:TYR:CD2	2.44	0.52
1:u:367:THR:HG22	1:u:368:LEU:N	2.23	0.52
1:x:560:ASN:HD22	1:y:495:ARG:NH2	2.08	0.52
1:y:432:ASP:HB2	1:y:452:GLY:HA3	1.91	0.52
1:y:456:PHE:HA	1:y:459:TYR:HD2	1.75	0.52
1:1:467:PRO:HD3	1:1:590:MET:HE3	1.92	0.52
1:3:456:PHE:HA	1:3:459:TYR:HD2	1.75	0.52
1:5:366:LEU:HD23	1:7:429:PRO:HB3	1.90	0.52
1:A:276:HIS:HB3	1:A:599:LEU:HG	1.91	0.52
1:B:429:PRO:HB3	1:J:366:LEU:HD23	1.91	0.52
1:C:276:HIS:HB3	1:C:599:LEU:HG	1.91	0.52
1:C:596:ASP:OD1	1:C:714:THR:HG22	2.09	0.52
1:F:473:GLN:HE22	1:F:559:ASN:HB3	1.75	0.52
1:F:495:ARG:NH2	1:Q:560:ASN:HD22	2.08	0.52
1:G:473:GLN:HE22	1:G:559:ASN:HB3	1.75	0.52
1:G:560:ASN:HD22	1:I:495:ARG:NH2	2.08	0.52
1:H:366:LEU:HD23	1:Y:429:PRO:HB3	1.90	0.52
1:J:450:LYS:NZ	1:L:347:GLU:OE2	2.26	0.52
1:K:366:LEU:HD23	1:8:429:PRO:HB3	1.90	0.52
1:V:269:TYR:HB3	1:V:633:LEU:HD23	1.92	0.52
1:V:432:ASP:HB2	1:V:452:GLY:HA3	1.91	0.52
1:V:450:LYS:NZ	1:e:347:GLU:OE2	2.26	0.52
1:V:473:GLN:HE22	1:V:559:ASN:HB3	1.75	0.52
1:Y:473:GLN:HE22	1:Y:559:ASN:HB3	1.75	0.52
1:b:596:ASP:OD1	1:b:714:THR:HG22	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:331:PHE:HB3	1:d:393:SER:HA	1.91	0.52
1:e:439:ASP:OD1	1:e:440:ALA:N	2.42	0.52
1:f:495:ARG:NH2	1:g:560:ASN:HD22	2.08	0.52
1:g:290:ASN:HD21	1:z:290:ASN:HD21	1.56	0.52
1:j:276:HIS:HB3	1:j:599:LEU:HG	1.91	0.52
1:t:473:GLN:HE22	1:t:559:ASN:HB3	1.75	0.52
1:t:560:ASN:HD22	1:u:495:ARG:NH2	2.08	0.52
1:w:347:GLU:OE2	1:y:450:LYS:NZ	2.26	0.52
1:1:429:PRO:HB3	1:2:366:LEU:HD23	1.91	0.52
1:1:439:ASP:OD1	1:1:440:ALA:N	2.42	0.52
1:6:684:ILE:HD11	1:7:381:PRO:HB2	1.92	0.52
1:C:456:PHE:HA	1:C:459:TYR:HD2	1.75	0.51
1:D:596:ASP:OD1	1:D:714:THR:HG22	2.10	0.51
1:F:366:LEU:HD23	1:Q:429:PRO:HB3	1.90	0.51
1:F:397:ARG:HE	1:R:214:SER:HA	1.75	0.51
1:F:456:PHE:HA	1:F:459:TYR:HD2	1.76	0.51
1:M:456:PHE:HA	1:M:459:TYR:HD2	1.75	0.51
1:N:596:ASP:OD1	1:N:714:THR:HG22	2.10	0.51
1:N:684:ILE:HD11	1:P:381:PRO:HB2	1.92	0.51
1:O:467:PRO:HD3	1:O:590:MET:HE3	1.92	0.51
1:P:276:HIS:HB3	1:P:599:LEU:HG	1.91	0.51
1:P:468:GLY:HA3	1:P:509:ASN:HD21	1.75	0.51
1:W:684:ILE:HD11	1:Y:381:PRO:HB2	1.92	0.51
1:Y:290:ASN:HD21	1:Z:290:ASN:HD21	1.55	0.51
1:Y:439:ASP:OD1	1:Y:440:ALA:N	2.42	0.51
1:a:269:TYR:HB3	1:a:633:LEU:HD23	1.93	0.51
1:c:495:ARG:NH2	1:p:560:ASN:HD22	2.08	0.51
1:f:456:PHE:HA	1:f:459:TYR:CD2	2.44	0.51
1:h:367:THR:HG22	1:h:368:LEU:N	2.23	0.51
1:h:456:PHE:HA	1:h:459:TYR:HD2	1.75	0.51
1:i:684:ILE:HD11	1:j:381:PRO:HB2	1.92	0.51
1:l:467:PRO:HD3	1:l:590:MET:HE3	1.92	0.51
1:n:473:GLN:HE22	1:n:559:ASN:HB3	1.75	0.51
1:p:473:GLN:HE22	1:p:559:ASN:HB3	1.75	0.51
1:v:276:HIS:HB3	1:v:599:LEU:HG	1.91	0.51
1:x:596:ASP:OD1	1:x:714:THR:HG22	2.09	0.51
1:y:473:GLN:HE22	1:y:559:ASN:HB3	1.75	0.51
1:2:456:PHE:HA	1:2:459:TYR:HD2	1.75	0.51
1:3:269:TYR:HB3	1:3:633:LEU:HD23	1.93	0.51
1:3:367:THR:HG22	1:3:368:LEU:N	2.23	0.51
1:5:468:GLY:HA3	1:5:509:ASN:HD21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:473:GLN:HE22	1:7:559:ASN:HB3	1.75	0.51
1:A:331:PHE:HB3	1:A:393:SER:HA	1.91	0.51
1:A:560:ASN:HD22	1:G:495:ARG:NH2	2.08	0.51
1:C:560:ASN:HD22	1:b:495:ARG:NH2	2.08	0.51
1:D:432:ASP:HB2	1:D:452:GLY:HA3	1.91	0.51
1:H:468:GLY:HA3	1:H:509:ASN:HD21	1.75	0.51
1:H:473:GLN:HE22	1:H:559:ASN:HB3	1.75	0.51
1:J:456:PHE:HA	1:J:459:TYR:HD2	1.75	0.51
1:N:396:LEU:HD11	1:N:402:PHE:HB2	1.90	0.51
1:S:439:ASP:OD1	1:S:440:ALA:N	2.42	0.51
1:T:450:LYS:NZ	1:d:347:GLU:OE2	2.26	0.51
1:Y:269:TYR:HB3	1:Y:633:LEU:HD23	1.93	0.51
1:a:367:THR:HG22	1:a:368:LEU:N	2.23	0.51
1:a:467:PRO:HD3	1:a:590:MET:HE3	1.92	0.51
1:c:439:ASP:OD1	1:c:440:ALA:N	2.42	0.51
1:f:596:ASP:OD1	1:f:714:THR:HG22	2.10	0.51
1:g:276:HIS:HB3	1:g:599:LEU:HG	1.91	0.51
1:g:456:PHE:HA	1:g:459:TYR:HD2	1.75	0.51
1:j:468:GLY:HA3	1:j:509:ASN:HD21	1.75	0.51
1:l:473:GLN:HE22	1:l:559:ASN:HB3	1.75	0.51
1:q:684:ILE:HD11	1:r:381:PRO:HB2	1.92	0.51
1:r:439:ASP:OD1	1:r:440:ALA:N	2.42	0.51
1:r:467:PRO:HD3	1:r:590:MET:HE3	1.92	0.51
1:s:468:GLY:HA3	1:s:509:ASN:HD21	1.75	0.51
1:x:429:PRO:HB3	1:y:366:LEU:HD23	1.90	0.51
1:z:560:ASN:HD22	1:1:495:ARG:NH2	2.07	0.51
1:4:467:PRO:HD3	1:4:590:MET:HE3	1.92	0.51
1:5:473:GLN:HE22	1:5:559:ASN:HB3	1.75	0.51
1:7:269:TYR:HB3	1:7:633:LEU:HD23	1.93	0.51
1:7:439:ASP:OD1	1:7:440:ALA:N	2.42	0.51
1:8:596:ASP:OD1	1:8:714:THR:HG22	2.10	0.51
1:A:397:ARG:HE	1:B:214:SER:HA	1.75	0.51
1:B:276:HIS:HB3	1:B:599:LEU:HG	1.91	0.51
1:K:467:PRO:HD3	1:K:590:MET:HE3	1.92	0.51
1:M:367:THR:HG22	1:M:368:LEU:N	2.23	0.51
1:O:473:GLN:HE22	1:O:559:ASN:HB3	1.75	0.51
1:R:276:HIS:HB3	1:R:599:LEU:HG	1.91	0.51
1:R:596:ASP:OD1	1:R:714:THR:HG22	2.10	0.51
1:R:684:ILE:HD11	1:S:381:PRO:HB2	1.92	0.51
1:S:467:PRO:HD3	1:S:590:MET:HE3	1.92	0.51
1:U:468:GLY:HA3	1:U:509:ASN:HD21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:456:PHE:HA	1:Y:459:TYR:HD2	1.75	0.51
1:Y:467:PRO:HD3	1:Y:590:MET:HE3	1.92	0.51
1:Z:596:ASP:OD1	1:Z:714:THR:HG22	2.10	0.51
1:b:456:PHE:HA	1:b:459:TYR:CD2	2.44	0.51
1:c:596:ASP:OD1	1:c:714:THR:HG22	2.09	0.51
1:i:269:TYR:HB3	1:i:633:LEU:HD23	1.93	0.51
1:i:596:ASP:OD1	1:i:714:THR:HG22	2.10	0.51
1:k:432:ASP:HB2	1:k:452:GLY:HA3	1.91	0.51
1:q:214:SER:HA	1:y:397:ARG:HE	1.75	0.51
1:q:596:ASP:OD1	1:q:714:THR:HG22	2.10	0.51
1:t:468:GLY:HA3	1:t:509:ASN:HD21	1.75	0.51
1:t:495:ARG:NH2	1:v:560:ASN:HD22	2.08	0.51
1:u:560:ASN:HD22	1:v:495:ARG:NH2	2.08	0.51
1:v:596:ASP:OD1	1:v:714:THR:HG22	2.10	0.51
1:w:560:ASN:HD22	1:x:495:ARG:NH2	2.08	0.51
1:1:565:ILE:HD11	1:2:469:CYS:HB2	1.92	0.51
1:3:467:PRO:HD3	1:3:590:MET:HE3	1.92	0.51
1:3:473:GLN:HE22	1:3:559:ASN:HB3	1.75	0.51
1:6:269:TYR:HB3	1:6:633:LEU:HD23	1.93	0.51
1:6:396:LEU:HD11	1:6:402:PHE:HB2	1.90	0.51
1:7:467:PRO:HD3	1:7:590:MET:HE3	1.92	0.51
1:A:596:ASP:OD1	1:A:714:THR:HG22	2.10	0.51
1:E:347:GLU:OE2	1:F:450:LYS:NZ	2.26	0.51
1:G:468:GLY:HA3	1:G:509:ASN:HD21	1.75	0.51
1:L:456:PHE:HA	1:L:459:TYR:HD2	1.75	0.51
1:N:269:TYR:HB3	1:N:633:LEU:HD23	1.93	0.51
1:O:495:ARG:NH2	1:n:560:ASN:HD22	2.08	0.51
1:R:473:GLN:HE22	1:R:559:ASN:HB3	1.75	0.51
1:S:456:PHE:HA	1:S:459:TYR:HD2	1.75	0.51
1:W:269:TYR:HB3	1:W:633:LEU:HD23	1.93	0.51
1:W:396:LEU:HD11	1:W:402:PHE:HB2	1.90	0.51
1:Z:684:ILE:HD11	1:4:381:PRO:HB2	1.92	0.51
1:a:473:GLN:HE22	1:a:559:ASN:HB3	1.75	0.51
1:b:456:PHE:HA	1:b:459:TYR:HD2	1.75	0.51
1:h:269:TYR:HB3	1:h:633:LEU:HD23	1.93	0.51
1:i:396:LEU:HD11	1:i:402:PHE:HB2	1.90	0.51
1:j:456:PHE:HA	1:j:459:TYR:HD2	1.75	0.51
1:k:467:PRO:HD3	1:k:590:MET:HE3	1.92	0.51
1:q:276:HIS:HB3	1:q:599:LEU:HG	1.91	0.51
1:q:473:GLN:HE22	1:q:559:ASN:HB3	1.75	0.51
1:r:456:PHE:HA	1:r:459:TYR:HD2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:331:PHE:HB3	1:v:393:SER:HA	1.91	0.51
1:x:684:ILE:HD11	1:y:381:PRO:HB2	1.92	0.51
1:z:456:PHE:HA	1:z:459:TYR:HD2	1.75	0.51
1:1:276:HIS:HB3	1:1:599:LEU:HG	1.91	0.51
1:2:596:ASP:OD1	1:2:714:THR:HG22	2.09	0.51
1:7:456:PHE:HA	1:7:459:TYR:HD2	1.75	0.51
1:A:456:PHE:HA	1:A:459:TYR:HD2	1.75	0.51
1:A:495:ARG:NH2	1:I:560:ASN:HD22	2.08	0.51
1:B:269:TYR:HB3	1:B:633:LEU:HD23	1.92	0.51
1:D:456:PHE:HA	1:D:459:TYR:HD2	1.75	0.51
1:E:560:ASN:HD22	1:Q:495:ARG:NH2	2.08	0.51
1:F:381:PRO:HB2	1:Q:684:ILE:HD11	1.92	0.51
1:J:596:ASP:OD1	1:J:714:THR:HG22	2.09	0.51
1:K:381:PRO:HB2	1:8:684:ILE:HD11	1.92	0.51
1:M:269:TYR:HB3	1:M:633:LEU:HD23	1.93	0.51
1:P:456:PHE:HA	1:P:459:TYR:HD2	1.76	0.51
1:Q:269:TYR:HB3	1:Q:633:LEU:HD23	1.92	0.51
1:Q:467:PRO:HD3	1:Q:590:MET:HE3	1.92	0.51
1:X:269:TYR:HB3	1:X:633:LEU:HD23	1.93	0.51
1:Z:467:PRO:HD3	1:Z:590:MET:HE3	1.92	0.51
1:Z:473:GLN:HE22	1:Z:559:ASN:HB3	1.75	0.51
1:c:684:ILE:HD11	1:o:381:PRO:HB2	1.92	0.51
1:d:560:ASN:HD22	1:l:495:ARG:NH2	2.08	0.51
1:e:596:ASP:OD1	1:e:714:THR:HG22	2.10	0.51
1:f:456:PHE:HA	1:f:459:TYR:HD2	1.75	0.51
1:g:467:PRO:HD3	1:g:590:MET:HE3	1.92	0.51
1:o:269:TYR:HB3	1:o:633:LEU:HD23	1.93	0.51
1:o:684:ILE:HD11	1:p:381:PRO:HB2	1.92	0.51
1:u:473:GLN:HE22	1:u:559:ASN:HB3	1.75	0.51
1:5:456:PHE:HA	1:5:459:TYR:HD2	1.75	0.51
1:8:467:PRO:HD3	1:8:590:MET:HE3	1.92	0.51
1:8:473:GLN:HE22	1:8:559:ASN:HB3	1.75	0.51
1:B:495:ARG:NH2	1:L:560:ASN:HD22	2.08	0.51
1:B:565:ILE:HD11	1:J:469:CYS:HB2	1.92	0.51
1:C:269:TYR:HB3	1:C:633:LEU:HD23	1.92	0.51
1:C:381:PRO:HB2	1:M:684:ILE:HD11	1.92	0.51
1:C:467:PRO:HD3	1:C:590:MET:HE3	1.92	0.51
1:D:467:PRO:HD3	1:D:590:MET:HE3	1.92	0.51
1:E:432:ASP:HB2	1:E:452:GLY:HA3	1.91	0.51
1:H:560:ASN:HD22	1:W:495:ARG:NH2	2.08	0.51
1:I:468:GLY:HA3	1:I:509:ASN:HD21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:473:GLN:HE22	1:I:559:ASN:HB3	1.75	0.51
1:R:456:PHE:HA	1:R:459:TYR:HD2	1.75	0.51
1:T:468:GLY:HA3	1:T:509:ASN:HD21	1.75	0.51
1:V:381:PRO:HB2	1:X:684:ILE:HD11	1.92	0.51
1:X:381:PRO:HB2	1:e:684:ILE:HD11	1.92	0.51
1:d:269:TYR:HB3	1:d:633:LEU:HD23	1.92	0.51
1:g:381:PRO:HB2	1:h:684:ILE:HD11	1.92	0.51
1:j:560:ASN:HD22	1:k:495:ARG:NH2	2.08	0.51
1:k:473:GLN:HE22	1:k:559:ASN:HB3	1.75	0.51
1:m:468:GLY:HA3	1:m:509:ASN:HD21	1.76	0.51
1:v:397:ARG:HE	1:1:214:SER:HA	1.75	0.51
1:w:432:ASP:HB2	1:w:452:GLY:HA3	1.91	0.51
1:x:269:TYR:HB3	1:x:633:LEU:HD23	1.92	0.51
1:x:467:PRO:HD3	1:x:590:MET:HE3	1.92	0.51
1:1:269:TYR:HB3	1:1:633:LEU:HD23	1.92	0.51
1:4:468:GLY:HA3	1:4:509:ASN:HD21	1.75	0.51
1:8:456:PHE:HA	1:8:459:TYR:HD2	1.75	0.51
1:A:468:GLY:HA3	1:A:509:ASN:HD21	1.75	0.51
1:D:495:ARG:NH2	1:P:560:ASN:HD22	2.08	0.51
1:J:560:ASN:HD22	1:L:495:ARG:NH2	2.08	0.51
1:O:269:TYR:HB3	1:O:633:LEU:HD23	1.93	0.51
1:R:269:TYR:HB3	1:R:633:LEU:HD23	1.92	0.51
1:R:468:GLY:HA3	1:R:509:ASN:HD21	1.76	0.51
1:V:347:GLU:OE2	1:X:450:LYS:NZ	2.25	0.51
1:W:468:GLY:HA3	1:W:509:ASN:HD21	1.75	0.51
1:Z:269:TYR:HB3	1:Z:633:LEU:HD23	1.93	0.51
1:Z:468:GLY:HA3	1:Z:509:ASN:HD21	1.75	0.51
1:a:468:GLY:HA3	1:a:509:ASN:HD21	1.75	0.51
1:c:468:GLY:HA3	1:c:509:ASN:HD21	1.75	0.51
1:e:467:PRO:HD3	1:e:590:MET:HE3	1.92	0.51
1:e:468:GLY:HA3	1:e:509:ASN:HD21	1.75	0.51
1:g:269:TYR:HB3	1:g:633:LEU:HD23	1.92	0.51
1:k:456:PHE:HA	1:k:459:TYR:HD2	1.75	0.51
1:l:269:TYR:HB3	1:l:633:LEU:HD23	1.93	0.51
1:m:456:PHE:HA	1:m:459:TYR:HD2	1.75	0.51
1:n:269:TYR:HB3	1:n:633:LEU:HD23	1.93	0.51
1:n:456:PHE:HA	1:n:459:TYR:HD2	1.75	0.51
1:o:450:LYS:NZ	1:p:347:GLU:OE2	2.25	0.51
1:p:456:PHE:HA	1:p:459:TYR:HD2	1.75	0.51
1:q:269:TYR:HB3	1:q:633:LEU:HD23	1.93	0.51
1:q:456:PHE:HA	1:q:459:TYR:HD2	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:468:GLY:HA3	1:u:509:ASN:HD21	1.75	0.51
1:v:456:PHE:HA	1:v:459:TYR:HD2	1.75	0.51
1:y:269:TYR:HB3	1:y:633:LEU:HD23	1.93	0.51
1:6:468:GLY:HA3	1:6:509:ASN:HD21	1.75	0.51
1:B:473:GLN:HE22	1:B:559:ASN:HB3	1.75	0.51
1:C:429:PRO:HB3	1:b:366:LEU:HD23	1.90	0.51
1:F:269:TYR:HB3	1:F:633:LEU:HD23	1.93	0.51
1:F:467:PRO:HD3	1:F:590:MET:HE3	1.92	0.51
1:H:456:PHE:HA	1:H:459:TYR:HD2	1.76	0.51
1:K:468:GLY:HA3	1:K:509:ASN:HD21	1.76	0.51
1:K:560:ASN:HD22	1:a:495:ARG:NH2	2.08	0.51
1:L:468:GLY:HA3	1:L:509:ASN:HD21	1.75	0.51
1:L:473:GLN:HE22	1:L:559:ASN:HB3	1.75	0.51
1:O:468:GLY:HA3	1:O:509:ASN:HD21	1.75	0.51
1:P:269:TYR:HB3	1:P:633:LEU:HD23	1.93	0.51
1:S:468:GLY:HA3	1:S:509:ASN:HD21	1.75	0.51
1:T:347:GLU:OE2	1:l:450:LYS:NZ	2.25	0.51
1:T:456:PHE:HA	1:T:459:TYR:HD2	1.76	0.51
1:W:276:HIS:HB3	1:W:599:LEU:HG	1.91	0.51
1:X:331:PHE:HB3	1:X:393:SER:HA	1.91	0.51
1:Z:456:PHE:HA	1:Z:459:TYR:HD2	1.75	0.51
1:b:468:GLY:HA3	1:b:509:ASN:HD21	1.75	0.51
1:c:467:PRO:HD3	1:c:590:MET:HE3	1.92	0.51
1:d:456:PHE:HA	1:d:459:TYR:HD2	1.75	0.51
1:f:366:LEU:HD23	1:g:429:PRO:HB3	1.90	0.51
1:f:468:GLY:HA3	1:f:509:ASN:HD21	1.75	0.51
1:i:560:ASN:HD22	1:j:495:ARG:NH2	2.08	0.51
1:j:269:TYR:HB3	1:j:633:LEU:HD23	1.93	0.51
1:m:473:GLN:HE22	1:m:559:ASN:HB3	1.75	0.51
1:n:596:ASP:OD1	1:n:714:THR:HG22	2.10	0.51
1:v:468:GLY:HA3	1:v:509:ASN:HD21	1.75	0.51
1:z:366:LEU:HD23	1:2:429:PRO:HB3	1.92	0.51
1:z:473:GLN:HE22	1:z:559:ASN:HB3	1.75	0.51
1:3:468:GLY:HA3	1:3:509:ASN:HD21	1.75	0.51
1:5:560:ASN:HD22	1:6:495:ARG:NH2	2.08	0.51
1:6:276:HIS:HB3	1:6:599:LEU:HG	1.91	0.51
1:8:269:TYR:HB3	1:8:633:LEU:HD23	1.93	0.51
1:A:473:GLN:HE22	1:A:559:ASN:HB3	1.75	0.51
1:B:482:ASN:ND2	1:L:575:ALA:HA	2.26	0.51
1:D:473:GLN:HE22	1:D:559:ASN:HB3	1.75	0.51
1:E:467:PRO:HD3	1:E:590:MET:HE3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:467:PRO:HD3	1:M:590:MET:HE3	1.92	0.51
1:N:473:GLN:HE22	1:N:559:ASN:HB3	1.75	0.51
1:T:473:GLN:HE22	1:T:559:ASN:HB3	1.75	0.51
1:V:456:PHE:HA	1:V:459:TYR:HD2	1.75	0.51
1:X:456:PHE:HA	1:X:459:TYR:HD2	1.75	0.51
1:d:596:ASP:OD1	1:d:714:THR:HG22	2.10	0.51
1:e:367:THR:HG22	1:e:368:LEU:N	2.23	0.51
1:q:367:THR:HG22	1:q:368:LEU:N	2.23	0.51
1:q:468:GLY:HA3	1:q:509:ASN:HD21	1.76	0.51
1:r:468:GLY:HA3	1:r:509:ASN:HD21	1.75	0.51
1:v:473:GLN:HE22	1:v:559:ASN:HB3	1.75	0.51
1:w:467:PRO:HD3	1:w:590:MET:HE3	1.92	0.51
1:y:467:PRO:HD3	1:y:590:MET:HE3	1.92	0.51
1:z:269:TYR:HB3	1:z:633:LEU:HD23	1.92	0.51
1:1:473:GLN:HE22	1:1:559:ASN:HB3	1.75	0.51
1:3:495:ARG:NH2	1:4:560:ASN:HD22	2.08	0.51
1:8:468:GLY:HA3	1:8:509:ASN:HD21	1.75	0.51
1:B:684:ILE:HD11	1:J:381:PRO:HB2	1.92	0.51
1:D:684:ILE:HD11	1:N:381:PRO:HB2	1.92	0.51
1:N:468:GLY:HA3	1:N:509:ASN:HD21	1.75	0.51
1:N:560:ASN:HD22	1:P:495:ARG:NH2	2.08	0.51
1:Q:468:GLY:HA3	1:Q:509:ASN:HD21	1.75	0.51
1:V:468:GLY:HA3	1:V:509:ASN:HD21	1.76	0.51
1:h:467:PRO:HD3	1:h:590:MET:HE3	1.92	0.51
1:h:468:GLY:HA3	1:h:509:ASN:HD21	1.75	0.51
1:i:381:PRO:HB2	1:k:684:ILE:HD11	1.92	0.51
1:l:468:GLY:HA3	1:l:509:ASN:HD21	1.75	0.51
1:m:269:TYR:HB3	1:m:633:LEU:HD23	1.92	0.51
1:o:456:PHE:HA	1:o:459:TYR:HD2	1.75	0.51
1:z:468:GLY:HA3	1:z:509:ASN:HD21	1.75	0.51
1:2:269:TYR:HB3	1:2:633:LEU:HD23	1.93	0.51
1:2:468:GLY:HA3	1:2:509:ASN:HD21	1.75	0.51
1:C:397:ARG:HE	1:D:214:SER:HA	1.76	0.50
1:E:269:TYR:HB3	1:E:633:LEU:HD23	1.93	0.50
1:E:456:PHE:HA	1:E:459:TYR:HD2	1.75	0.50
1:J:269:TYR:HB3	1:J:633:LEU:HD23	1.93	0.50
1:J:468:GLY:HA3	1:J:509:ASN:HD21	1.75	0.50
1:J:473:GLN:HE22	1:J:559:ASN:HB3	1.75	0.50
1:L:269:TYR:HB3	1:L:633:LEU:HD23	1.93	0.50
1:M:468:GLY:HA3	1:M:509:ASN:HD21	1.75	0.50
1:T:269:TYR:HB3	1:T:633:LEU:HD23	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:684:ILE:HD11	1:e:381:PRO:HB2	1.92	0.50
1:X:467:PRO:HD3	1:X:590:MET:HE3	1.92	0.50
1:c:269:TYR:HB3	1:c:633:LEU:HD23	1.93	0.50
1:c:381:PRO:HB2	1:p:684:ILE:HD11	1.92	0.50
1:c:456:PHE:HA	1:c:459:TYR:HD2	1.75	0.50
1:c:473:GLN:HE22	1:c:559:ASN:HB3	1.75	0.50
1:e:473:GLN:HE22	1:e:559:ASN:HB3	1.75	0.50
1:g:397:ARG:HE	1:k:214:SER:HA	1.76	0.50
1:i:473:GLN:HE22	1:i:559:ASN:HB3	1.75	0.50
1:l:456:PHE:HA	1:l:459:TYR:HD2	1.75	0.50
1:m:684:ILE:HD11	1:n:381:PRO:HB2	1.92	0.50
1:o:331:PHE:HB3	1:o:393:SER:HA	1.91	0.50
1:p:468:GLY:HA3	1:p:509:ASN:HD21	1.76	0.50
1:w:269:TYR:HB3	1:w:633:LEU:HD23	1.93	0.50
1:w:456:PHE:HA	1:w:459:TYR:HD2	1.75	0.50
1:x:468:GLY:HA3	1:x:509:ASN:HD21	1.75	0.50
1:1:456:PHE:HA	1:1:459:TYR:HD2	1.75	0.50
1:1:684:ILE:HD11	1:2:381:PRO:HB2	1.92	0.50
1:B:456:PHE:HA	1:B:459:TYR:HD2	1.75	0.50
1:F:214:SER:HA	1:G:397:ARG:HE	1.77	0.50
1:K:397:ARG:HE	1:7:214:SER:HA	1.76	0.50
1:K:456:PHE:HA	1:K:459:TYR:HD2	1.75	0.50
1:O:456:PHE:HA	1:O:459:TYR:HD2	1.75	0.50
1:R:482:ASN:ND2	1:U:575:ALA:HA	2.26	0.50
1:S:269:TYR:HB3	1:S:633:LEU:HD23	1.93	0.50
1:X:397:ARG:HE	1:f:214:SER:HA	1.77	0.50
1:Y:468:GLY:HA3	1:Y:509:ASN:HD21	1.75	0.50
1:e:269:TYR:HB3	1:e:633:LEU:HD23	1.92	0.50
1:f:473:GLN:HE22	1:f:559:ASN:HB3	1.75	0.50
1:f:684:ILE:HD11	1:h:381:PRO:HB2	1.92	0.50
1:h:473:GLN:HE22	1:h:559:ASN:HB3	1.75	0.50
1:i:468:GLY:HA3	1:i:509:ASN:HD21	1.75	0.50
1:n:468:GLY:HA3	1:n:509:ASN:HD21	1.75	0.50
1:r:269:TYR:HB3	1:r:633:LEU:HD23	1.92	0.50
1:u:269:TYR:HB3	1:u:633:LEU:HD23	1.92	0.50
1:2:473:GLN:HE22	1:2:559:ASN:HB3	1.75	0.50
1:3:381:PRO:HB2	1:4:684:ILE:HD11	1.92	0.50
1:4:456:PHE:HA	1:4:459:TYR:HD2	1.75	0.50
1:6:473:GLN:HE22	1:6:559:ASN:HB3	1.75	0.50
1:H:269:TYR:HB3	1:H:633:LEU:HD23	1.93	0.50
1:I:269:TYR:HB3	1:I:633:LEU:HD23	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:684:ILE:HD11	1:a:381:PRO:HB2	1.92	0.50
1:M:473:GLN:HE22	1:M:559:ASN:HB3	1.75	0.50
1:O:450:LYS:NZ	1:m:347:GLU:OE2	2.25	0.50
1:R:367:THR:HG22	1:R:368:LEU:N	2.23	0.50
1:S:684:ILE:HD11	1:U:381:PRO:HB2	1.92	0.50
1:T:684:ILE:HD11	1:d:381:PRO:HB2	1.92	0.50
1:X:214:SER:HA	1:Y:397:ARG:HE	1.77	0.50
1:Y:214:SER:HA	1:4:397:ARG:HE	1.77	0.50
1:b:473:GLN:HE22	1:b:559:ASN:HB3	1.75	0.50
1:d:468:GLY:HA3	1:d:509:ASN:HD21	1.75	0.50
1:e:456:PHE:HA	1:e:459:TYR:HD2	1.75	0.50
1:j:473:GLN:HE22	1:j:559:ASN:HB3	1.75	0.50
1:o:214:SER:HA	1:7:397:ARG:HE	1.77	0.50
1:o:467:PRO:HD3	1:o:590:MET:HE3	1.92	0.50
1:r:684:ILE:HD11	1:s:381:PRO:HB2	1.92	0.50
1:t:397:ARG:HE	1:y:214:SER:HA	1.77	0.50
1:1:367:THR:HG22	1:1:368:LEU:N	2.23	0.50
1:1:468:GLY:HA3	1:1:509:ASN:HD21	1.75	0.50
1:5:269:TYR:HB3	1:5:633:LEU:HD23	1.93	0.50
1:6:560:ASN:HD22	1:7:495:ARG:NH2	2.08	0.50
1:C:468:GLY:HA3	1:C:509:ASN:HD21	1.76	0.50
1:D:381:PRO:HB2	1:P:684:ILE:HD11	1.92	0.50
1:F:468:GLY:HA3	1:F:509:ASN:HD21	1.75	0.50
1:H:381:PRO:HB2	1:Y:684:ILE:HD11	1.92	0.50
1:M:381:PRO:HB2	1:b:684:ILE:HD11	1.92	0.50
1:N:456:PHE:HA	1:N:459:TYR:HD2	1.75	0.50
1:O:397:ARG:HE	1:d:214:SER:HA	1.77	0.50
1:O:596:ASP:OD1	1:O:714:THR:HG22	2.10	0.50
1:Q:473:GLN:HE22	1:Q:559:ASN:HB3	1.75	0.50
1:W:560:ASN:HD22	1:Y:495:ARG:NH2	2.08	0.50
1:a:684:ILE:HD11	1:8:381:PRO:HB2	1.92	0.50
1:b:214:SER:HA	1:o:397:ARG:HE	1.77	0.50
1:l:596:ASP:OD1	1:l:714:THR:HG22	2.10	0.50
1:q:482:ASN:ND2	1:s:575:ALA:HA	2.26	0.50
1:w:381:PRO:HB2	1:y:684:ILE:HD11	1.92	0.50
1:x:473:GLN:HE22	1:x:559:ASN:HB3	1.75	0.50
1:z:445:ASN:HB2	1:1:536:ALA:O	2.12	0.50
1:2:467:PRO:HD3	1:2:590:MET:HE3	1.92	0.50
1:5:381:PRO:HB2	1:7:684:ILE:HD11	1.92	0.50
1:7:468:GLY:HA3	1:7:509:ASN:HD21	1.75	0.50
1:B:367:THR:HG22	1:B:368:LEU:N	2.23	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:381:PRO:HB2	1:F:684:ILE:HD11	1.92	0.50
1:L:214:SER:HA	1:b:397:ARG:HE	1.77	0.50
1:M:397:ARG:HE	1:c:214:SER:HA	1.77	0.50
1:Q:456:PHE:HA	1:Q:459:TYR:HD2	1.75	0.50
1:W:473:GLN:HE22	1:W:559:ASN:HB3	1.75	0.50
1:X:468:GLY:HA3	1:X:509:ASN:HD21	1.75	0.50
1:Z:381:PRO:HB2	1:3:684:ILE:HD11	1.92	0.50
1:d:684:ILE:HD11	1:l:381:PRO:HB2	1.92	0.50
1:g:468:GLY:HA3	1:g:509:ASN:HD21	1.75	0.50
1:i:456:PHE:HA	1:i:459:TYR:HD2	1.75	0.50
1:s:473:GLN:HE22	1:s:559:ASN:HB3	1.75	0.50
1:w:468:GLY:HA3	1:w:509:ASN:HD21	1.75	0.50
1:x:456:PHE:HA	1:x:459:TYR:HD2	1.75	0.50
1:y:468:GLY:HA3	1:y:509:ASN:HD21	1.75	0.50
1:F:643:PRO:HG2	1:R:240:PRO:HB3	1.94	0.50
1:H:684:ILE:HD11	1:W:381:PRO:HB2	1.92	0.50
1:P:473:GLN:HE22	1:P:559:ASN:HB3	1.75	0.50
1:U:473:GLN:HE22	1:U:559:ASN:HB3	1.75	0.50
1:e:214:SER:HA	1:h:397:ARG:HE	1.77	0.50
1:h:214:SER:HA	1:i:397:ARG:HE	1.77	0.50
1:j:214:SER:HA	1:x:397:ARG:HE	1.76	0.50
1:j:684:ILE:HD11	1:k:381:PRO:HB2	1.92	0.50
1:o:468:GLY:HA3	1:o:509:ASN:HD21	1.75	0.50
1:u:397:ARG:HE	1:5:214:SER:HA	1.76	0.50
1:3:214:SER:HA	1:8:397:ARG:HE	1.77	0.50
1:4:473:GLN:HE22	1:4:559:ASN:HB3	1.75	0.50
1:5:684:ILE:HD11	1:6:381:PRO:HB2	1.92	0.50
1:B:468:GLY:HA3	1:B:509:ASN:HD21	1.76	0.50
1:E:468:GLY:HA3	1:E:509:ASN:HD21	1.75	0.50
1:J:467:PRO:HD3	1:J:590:MET:HE3	1.92	0.50
1:M:214:SER:HA	1:N:397:ARG:HE	1.77	0.50
1:P:214:SER:HA	1:Q:397:ARG:HE	1.76	0.50
1:Z:397:ARG:HE	1:a:214:SER:HA	1.77	0.50
1:f:269:TYR:HB3	1:f:633:LEU:HD23	1.93	0.50
1:q:240:PRO:HB3	1:y:643:PRO:HG2	1.94	0.50
1:z:565:ILE:HD11	1:l:469:CYS:HB2	1.93	0.50
1:E:684:ILE:HD11	1:Q:381:PRO:HB2	1.92	0.50
1:G:456:PHE:HA	1:G:459:TYR:HD2	1.75	0.50
1:G:684:ILE:HD11	1:I:381:PRO:HB2	1.92	0.50
1:O:684:ILE:HD11	1:m:381:PRO:HB2	1.92	0.50
1:T:381:PRO:HB2	1:l:684:ILE:HD11	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:269:TYR:HB3	1:b:633:LEU:HD23	1.92	0.50
1:g:473:GLN:HE22	1:g:559:ASN:HB3	1.75	0.50
1:k:269:TYR:HB3	1:k:633:LEU:HD23	1.93	0.50
1:l:397:ARG:HE	1:n:214:SER:HA	1.77	0.50
1:w:684:ILE:HD11	1:x:381:PRO:HB2	1.92	0.50
1:D:269:TYR:HB3	1:D:633:LEU:HD23	1.93	0.50
1:G:269:TYR:HB3	1:G:633:LEU:HD23	1.93	0.50
1:H:214:SER:HA	1:I:397:ARG:HE	1.76	0.50
1:J:214:SER:HA	1:a:397:ARG:HE	1.77	0.50
1:K:473:GLN:HE22	1:K:559:ASN:HB3	1.75	0.50
1:O:381:PRO:HB2	1:n:684:ILE:HD11	1.92	0.50
1:Q:214:SER:HA	1:S:397:ARG:HE	1.77	0.50
1:U:214:SER:HA	1:e:397:ARG:HE	1.77	0.50
1:W:467:PRO:HD3	1:W:590:MET:HE3	1.92	0.50
1:X:473:GLN:HE22	1:X:559:ASN:HB3	1.75	0.50
1:r:397:ARG:HE	1:x:214:SER:HA	1.77	0.50
1:A:269:TYR:HB3	1:A:633:LEU:HD23	1.93	0.49
1:C:473:GLN:HE22	1:C:559:ASN:HB3	1.75	0.49
1:T:214:SER:HA	1:U:397:ARG:HE	1.77	0.49
1:c:397:ARG:HE	1:s:214:SER:HA	1.77	0.49
1:m:214:SER:HA	1:s:397:ARG:HE	1.77	0.49
1:n:397:ARG:HE	1:r:214:SER:HA	1.77	0.49
1:s:456:PHE:HA	1:s:459:TYR:HD2	1.75	0.49
1:t:269:TYR:HB3	1:t:633:LEU:HD23	1.92	0.49
1:t:456:PHE:HA	1:t:459:TYR:HD2	1.75	0.49
1:t:684:ILE:HD11	1:u:381:PRO:HB2	1.92	0.49
1:w:473:GLN:HE22	1:w:559:ASN:HB3	1.75	0.49
1:2:240:PRO:HB3	1:3:643:PRO:HG2	1.94	0.49
1:4:269:TYR:HB3	1:4:633:LEU:HD23	1.92	0.49
1:J:240:PRO:HB3	1:a:643:PRO:HG2	1.94	0.49
1:R:565:ILE:HD11	1:S:469:CYS:HB2	1.92	0.49
1:S:240:PRO:HB3	1:d:643:PRO:HG2	1.94	0.49
1:W:456:PHE:HA	1:W:459:TYR:HD2	1.75	0.49
1:v:269:TYR:HB3	1:v:633:LEU:HD23	1.93	0.49
1:2:214:SER:HA	1:3:397:ARG:HE	1.77	0.49
1:6:467:PRO:HD3	1:6:590:MET:HE3	1.92	0.49
1:D:397:ARG:HE	1:E:214:SER:HA	1.77	0.49
1:H:643:PRO:HG2	1:Z:240:PRO:HB3	1.94	0.49
1:I:214:SER:HA	1:J:397:ARG:HE	1.77	0.49
1:K:269:TYR:HB3	1:K:633:LEU:HD23	1.92	0.49
1:S:214:SER:HA	1:d:397:ARG:HE	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:456:PHE:HA	1:U:459:TYR:HD2	1.75	0.49
1:k:397:ARG:HE	1:w:214:SER:HA	1.77	0.49
1:n:643:PRO:HG2	1:r:240:PRO:HB3	1.94	0.49
1:o:473:GLN:HE22	1:o:559:ASN:HB3	1.75	0.49
1:5:643:PRO:HG2	1:8:240:PRO:HB3	1.95	0.49
1:C:643:PRO:HG2	1:D:240:PRO:HB3	1.95	0.49
1:D:643:PRO:HG2	1:E:240:PRO:HB3	1.95	0.49
1:E:473:GLN:HE22	1:E:559:ASN:HB3	1.75	0.49
1:O:214:SER:HA	1:P:397:ARG:HE	1.77	0.49
1:O:240:PRO:HB3	1:P:643:PRO:HG2	1.94	0.49
1:U:269:TYR:HB3	1:U:633:LEU:HD23	1.93	0.49
1:V:397:ARG:HE	1:W:214:SER:HA	1.76	0.49
1:V:643:PRO:HG2	1:W:240:PRO:HB3	1.95	0.49
1:g:643:PRO:HG2	1:k:240:PRO:HB3	1.95	0.49
1:k:643:PRO:HG2	1:w:240:PRO:HB3	1.94	0.49
1:p:397:ARG:HE	1:6:214:SER:HA	1.76	0.49
1:p:643:PRO:HG2	1:6:240:PRO:HB3	1.95	0.49
1:u:214:SER:HA	1:2:397:ARG:HE	1.77	0.49
1:6:456:PHE:HA	1:6:459:TYR:HD2	1.75	0.49
1:B:381:PRO:HB2	1:L:684:ILE:HD11	1.93	0.49
1:D:468:GLY:HA3	1:D:509:ASN:HD21	1.75	0.49
1:K:240:PRO:HB3	1:L:643:PRO:HG2	1.94	0.49
1:R:397:ARG:HG3	1:V:214:SER:HB3	1.94	0.49
1:j:397:ARG:HE	1:l:214:SER:HA	1.77	0.49
1:j:643:PRO:HG2	1:l:240:PRO:HB3	1.95	0.49
1:k:468:GLY:HA3	1:k:509:ASN:HD21	1.75	0.49
1:p:214:SER:HB3	1:q:397:ARG:HG3	1.94	0.49
1:q:565:ILE:HD11	1:r:469:CYS:HB2	1.93	0.49
1:G:565:ILE:HD11	1:I:469:CYS:HB2	1.95	0.49
1:s:269:TYR:HB3	1:s:633:LEU:HD23	1.93	0.49
1:t:565:ILE:HD11	1:u:469:CYS:HB2	1.95	0.49
1:u:240:PRO:HB3	1:2:643:PRO:HG2	1.94	0.49
1:z:643:PRO:HG2	1:4:240:PRO:HB3	1.94	0.49
1:z:684:ILE:HD11	1:1:381:PRO:HB2	1.93	0.49
1:O:643:PRO:HG2	1:d:240:PRO:HB3	1.95	0.49
1:S:565:ILE:HD11	1:U:469:CYS:HB2	1.95	0.49
1:f:347:GLU:OE2	1:g:450:LYS:NZ	2.26	0.49
1:g:214:SER:HB3	1:1:397:ARG:HG3	1.94	0.49
1:z:449:ARG:HD3	1:1:532:ALA:O	2.12	0.49
1:A:240:PRO:HB3	1:E:643:PRO:HG2	1.95	0.49
1:B:397:ARG:HG3	1:C:214:SER:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:565:ILE:HD11	1:W:469:CYS:HB2	1.95	0.49
1:I:240:PRO:HB3	1:J:643:PRO:HG2	1.94	0.49
1:N:214:SER:HA	1:m:397:ARG:HE	1.76	0.49
1:T:397:ARG:HE	1:i:214:SER:HA	1.76	0.49
1:j:240:PRO:HB3	1:x:643:PRO:HG2	1.95	0.49
1:l:643:PRO:HG2	1:n:240:PRO:HB3	1.95	0.49
1:r:565:ILE:HD11	1:s:469:CYS:HB2	1.95	0.49
1:v:240:PRO:HB3	1:w:643:PRO:HG2	1.95	0.49
1:v:643:PRO:HG2	1:1:240:PRO:HB3	1.93	0.49
1:5:565:ILE:HD11	1:6:469:CYS:HB2	1.95	0.49
1:B:575:ALA:HA	1:J:482:ASN:ND2	2.27	0.49
1:F:240:PRO:HB3	1:G:643:PRO:HG2	1.95	0.49
1:I:456:PHE:HA	1:I:459:TYR:HD2	1.75	0.49
1:M:643:PRO:HG2	1:c:240:PRO:HB3	1.95	0.49
1:N:565:ILE:HD11	1:P:469:CYS:HB2	1.95	0.49
1:R:381:PRO:HB2	1:U:684:ILE:HD11	1.93	0.49
1:q:575:ALA:HA	1:r:482:ASN:ND2	2.27	0.49
1:t:214:SER:HA	1:6:397:ARG:HE	1.77	0.49
1:t:643:PRO:HG2	1:y:240:PRO:HB3	1.95	0.49
1:1:575:ALA:HA	1:2:482:ASN:ND2	2.27	0.49
1:A:643:PRO:HG2	1:B:240:PRO:HB3	1.94	0.49
1:C:450:LYS:NZ	1:b:347:GLU:OE2	2.26	0.49
1:D:469:CYS:HB2	1:P:565:ILE:HD11	1.95	0.49
1:D:565:ILE:HD11	1:N:469:CYS:HB2	1.95	0.49
1:G:214:SER:HA	1:W:397:ARG:HE	1.77	0.49
1:K:214:SER:HA	1:L:397:ARG:HE	1.77	0.49
1:K:469:CYS:HB2	1:8:565:ILE:HD11	1.95	0.49
1:P:240:PRO:HB3	1:Q:643:PRO:HG2	1.95	0.49
1:R:575:ALA:HA	1:S:482:ASN:ND2	2.27	0.49
1:Z:565:ILE:HD11	1:4:469:CYS:HB2	1.95	0.49
1:e:240:PRO:HB3	1:h:643:PRO:HG2	1.95	0.49
1:g:469:CYS:HB2	1:h:565:ILE:HD11	1.95	0.49
1:i:565:ILE:HD11	1:j:469:CYS:HB2	1.95	0.49
1:j:565:ILE:HD11	1:k:469:CYS:HB2	1.95	0.49
1:t:469:CYS:HB2	1:v:565:ILE:HD11	1.95	0.49
1:x:450:LYS:NZ	1:y:347:GLU:OE2	2.26	0.49
1:A:565:ILE:HD11	1:G:469:CYS:HB2	1.95	0.48
1:C:469:CYS:HB2	1:M:565:ILE:HD11	1.95	0.48
1:F:347:GLU:OE2	1:Q:450:LYS:NZ	2.26	0.48
1:T:240:PRO:HB3	1:U:643:PRO:HG2	1.94	0.48
1:m:240:PRO:HB3	1:s:643:PRO:HG2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:465:PRO:HB3	1:b:496:LEU:HD12	1.96	0.48
1:H:397:ARG:HE	1:Z:214:SER:HA	1.77	0.48
1:O:565:ILE:HD11	1:m:469:CYS:HB2	1.95	0.48
1:R:643:PRO:HG2	1:V:240:PRO:HB3	1.96	0.48
1:U:240:PRO:HB3	1:e:643:PRO:HG2	1.94	0.48
1:Z:469:CYS:HB2	1:3:565:ILE:HD11	1.95	0.48
1:c:643:PRO:HG2	1:s:240:PRO:HB3	1.94	0.48
1:f:496:LEU:HD12	1:g:465:PRO:HB3	1.96	0.48
1:i:469:CYS:HB2	1:k:565:ILE:HD11	1.95	0.48
1:p:240:PRO:HB3	1:q:643:PRO:HG2	1.96	0.48
1:u:456:PHE:HA	1:u:459:TYR:HD2	1.75	0.48
1:5:397:ARG:HE	1:8:214:SER:HA	1.77	0.48
1:J:565:ILE:HD11	1:L:469:CYS:HB2	1.95	0.48
1:K:465:PRO:HB3	1:a:496:LEU:HD12	1.96	0.48
1:T:469:CYS:HB2	1:l:565:ILE:HD11	1.95	0.48
1:V:465:PRO:HB3	1:e:496:LEU:HD12	1.96	0.48
1:a:565:ILE:HD11	1:8:469:CYS:HB2	1.95	0.48
1:c:496:LEU:HD12	1:p:465:PRO:HB3	1.96	0.48
1:f:465:PRO:HB3	1:h:496:LEU:HD12	1.96	0.48
1:q:381:PRO:HB2	1:s:684:ILE:HD11	1.93	0.48
1:3:496:LEU:HD12	1:4:465:PRO:HB3	1.96	0.48
1:A:214:SER:HA	1:E:397:ARG:HE	1.77	0.48
1:M:469:CYS:HB2	1:b:565:ILE:HD11	1.95	0.48
1:M:496:LEU:HD12	1:b:465:PRO:HB3	1.96	0.48
1:X:240:PRO:HB3	1:Y:643:PRO:HG2	1.94	0.48
1:Y:240:PRO:HB3	1:4:643:PRO:HG2	1.95	0.48
1:b:240:PRO:HB3	1:o:643:PRO:HG2	1.95	0.48
1:j:575:ALA:HA	1:k:482:ASN:ND2	2.29	0.48
1:m:565:ILE:HD11	1:n:469:CYS:HB2	1.95	0.48
1:u:643:PRO:HG2	1:5:240:PRO:HB3	1.95	0.48
1:B:643:PRO:HG2	1:C:240:PRO:HB3	1.96	0.48
1:D:482:ASN:ND2	1:P:575:ALA:HA	2.29	0.48
1:H:240:PRO:HB3	1:I:643:PRO:HG2	1.95	0.48
1:K:565:ILE:HD11	1:a:469:CYS:HB2	1.95	0.48
1:K:643:PRO:HG2	1:7:240:PRO:HB3	1.95	0.48
1:M:240:PRO:HB3	1:N:643:PRO:HG2	1.94	0.48
1:T:565:ILE:HD11	1:d:469:CYS:HB2	1.95	0.48
1:T:643:PRO:HG2	1:i:240:PRO:HB3	1.95	0.48
1:V:496:LEU:HD12	1:X:465:PRO:HB3	1.96	0.48
1:c:469:CYS:HB2	1:p:565:ILE:HD11	1.95	0.48
1:f:565:ILE:HD11	1:h:469:CYS:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:465:PRO:HB3	1:p:496:LEU:HD12	1.96	0.48
1:v:214:SER:HA	1:w:397:ARG:HE	1.77	0.48
1:B:276:HIS:HD2	1:B:352:PRO:HB3	1.79	0.48
1:B:445:ASN:HB2	1:J:536:ALA:O	2.13	0.48
1:C:496:LEU:HD12	1:M:465:PRO:HB3	1.96	0.48
1:C:575:ALA:HA	1:b:482:ASN:ND2	2.29	0.48
1:F:496:LEU:HD12	1:Q:465:PRO:HB3	1.96	0.48
1:G:240:PRO:HB3	1:W:643:PRO:HG2	1.95	0.48
1:H:469:CYS:HB2	1:Y:565:ILE:HD11	1.95	0.48
1:H:482:ASN:ND2	1:Y:575:ALA:HA	2.29	0.48
1:L:240:PRO:HB3	1:b:643:PRO:HG2	1.94	0.48
1:M:482:ASN:ND2	1:b:575:ALA:HA	2.29	0.48
1:N:240:PRO:HB3	1:m:643:PRO:HG2	1.95	0.48
1:O:465:PRO:HB3	1:m:496:LEU:HD12	1.96	0.48
1:P:488:TRP:HZ3	1:P:502:LYS:HB2	1.79	0.48
1:T:496:LEU:HD12	1:l:465:PRO:HB3	1.96	0.48
1:V:469:CYS:HB2	1:X:565:ILE:HD11	1.95	0.48
1:V:565:ILE:HD11	1:e:469:CYS:HB2	1.95	0.48
1:X:643:PRO:HG2	1:f:240:PRO:HB3	1.95	0.48
1:f:575:ALA:HA	1:h:482:ASN:ND2	2.29	0.48
1:h:240:PRO:HB3	1:i:643:PRO:HG2	1.95	0.48
1:o:240:PRO:HB3	1:7:643:PRO:HG2	1.94	0.48
1:o:565:ILE:HD11	1:p:469:CYS:HB2	1.95	0.48
1:t:240:PRO:HB3	1:6:643:PRO:HG2	1.95	0.48
1:y:488:TRP:HZ3	1:y:502:LYS:HB2	1.79	0.48
1:1:445:ASN:HB2	1:2:536:ALA:O	2.13	0.48
1:3:469:CYS:HB2	1:4:565:ILE:HD11	1.95	0.48
1:W:575:ALA:HA	1:Y:482:ASN:ND2	2.29	0.48
1:X:482:ASN:ND2	1:e:575:ALA:HA	2.29	0.48
1:a:488:TRP:HZ3	1:a:502:LYS:HB2	1.79	0.48
1:c:575:ALA:HA	1:o:482:ASN:ND2	2.29	0.48
1:f:482:ASN:ND2	1:g:575:ALA:HA	2.29	0.48
1:g:240:PRO:HB3	1:1:643:PRO:HG2	1.96	0.48
1:g:496:LEU:HD12	1:h:465:PRO:HB3	1.96	0.48
1:j:488:TRP:HZ3	1:j:502:LYS:HB2	1.79	0.48
1:r:465:PRO:HB3	1:s:496:LEU:HD12	1.96	0.48
1:t:496:LEU:HD12	1:v:465:PRO:HB3	1.96	0.48
1:x:465:PRO:HB3	1:y:496:LEU:HD12	1.96	0.48
1:1:276:HIS:HD2	1:1:352:PRO:HB3	1.79	0.48
1:5:469:CYS:HB2	1:7:565:ILE:HD11	1.95	0.48
1:5:482:ASN:ND2	1:7:575:ALA:HA	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:488:TRP:HZ3	1:F:502:LYS:HB2	1.79	0.48
1:G:488:TRP:HZ3	1:G:502:LYS:HB2	1.79	0.48
1:J:575:ALA:HA	1:L:482:ASN:ND2	2.29	0.48
1:O:496:LEU:HD12	1:n:465:PRO:HB3	1.96	0.48
1:S:465:PRO:HB3	1:U:496:LEU:HD12	1.96	0.48
1:U:488:TRP:HZ3	1:U:502:LYS:HB2	1.79	0.48
1:c:276:HIS:HD2	1:c:352:PRO:HB3	1.79	0.48
1:c:488:TRP:HZ3	1:c:502:LYS:HB2	1.79	0.48
1:e:488:TRP:HZ3	1:e:502:LYS:HB2	1.79	0.48
1:p:488:TRP:HZ3	1:p:502:LYS:HB2	1.79	0.48
1:u:488:TRP:HZ3	1:u:502:LYS:HB2	1.79	0.48
1:w:565:ILE:HD11	1:x:469:CYS:HB2	1.95	0.48
1:3:488:TRP:HZ3	1:3:502:LYS:HB2	1.79	0.48
1:6:575:ALA:HA	1:7:482:ASN:ND2	2.29	0.48
1:A:465:PRO:HB3	1:G:496:LEU:HD12	1.96	0.48
1:A:496:LEU:HD12	1:I:465:PRO:HB3	1.96	0.48
1:B:449:ARG:HD3	1:J:532:ALA:O	2.14	0.48
1:G:465:PRO:HB3	1:I:496:LEU:HD12	1.96	0.48
1:I:488:TRP:HZ3	1:I:502:LYS:HB2	1.79	0.48
1:Q:240:PRO:HB3	1:S:643:PRO:HG2	1.94	0.48
1:S:488:TRP:HZ3	1:S:502:LYS:HB2	1.79	0.48
1:V:482:ASN:ND2	1:X:575:ALA:HA	2.29	0.48
1:V:488:TRP:HZ3	1:V:502:LYS:HB2	1.79	0.48
1:d:465:PRO:HB3	1:l:496:LEU:HD12	1.96	0.48
1:e:276:HIS:HD2	1:e:352:PRO:HB3	1.79	0.48
1:g:488:TRP:HZ3	1:g:502:LYS:HB2	1.79	0.48
1:i:465:PRO:HB3	1:j:496:LEU:HD12	1.96	0.48
1:q:496:LEU:HD12	1:s:465:PRO:HB3	1.96	0.48
1:s:488:TRP:HZ3	1:s:502:LYS:HB2	1.79	0.48
1:t:488:TRP:HZ3	1:t:502:LYS:HB2	1.79	0.48
1:w:469:CYS:HB2	1:y:565:ILE:HD11	1.95	0.48
1:1:449:ARG:HD3	1:2:532:ALA:O	2.14	0.48
1:3:482:ASN:ND2	1:4:575:ALA:HA	2.29	0.48
1:5:488:TRP:HZ3	1:5:502:LYS:HB2	1.79	0.48
1:C:482:ASN:ND2	1:M:575:ALA:HA	2.29	0.48
1:C:488:TRP:HZ3	1:C:502:LYS:HB2	1.79	0.48
1:D:488:TRP:HZ3	1:D:502:LYS:HB2	1.79	0.48
1:E:565:ILE:HD11	1:Q:469:CYS:HB2	1.95	0.48
1:E:575:ALA:HA	1:Q:482:ASN:ND2	2.29	0.48
1:F:276:HIS:HD2	1:F:352:PRO:HB3	1.78	0.48
1:H:488:TRP:HZ3	1:H:502:LYS:HB2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:488:TRP:HZ3	1:M:502:LYS:HB2	1.79	0.48
1:N:465:PRO:HB3	1:P:496:LEU:HD12	1.96	0.48
1:N:575:ALA:HA	1:P:482:ASN:ND2	2.29	0.48
1:O:482:ASN:ND2	1:n:575:ALA:HA	2.29	0.48
1:O:488:TRP:HZ3	1:O:502:LYS:HB2	1.79	0.48
1:R:496:LEU:HD12	1:U:465:PRO:HB3	1.96	0.48
1:X:469:CYS:HB2	1:e:565:ILE:HD11	1.95	0.48
1:Z:643:PRO:HG2	1:a:240:PRO:HB3	1.95	0.48
1:d:575:ALA:HA	1:l:482:ASN:ND2	2.29	0.48
1:h:488:TRP:HZ3	1:h:502:LYS:HB2	1.79	0.48
1:i:575:ALA:HA	1:j:482:ASN:ND2	2.29	0.48
1:j:465:PRO:HB3	1:k:496:LEU:HD12	1.96	0.48
1:o:575:ALA:HA	1:p:482:ASN:ND2	2.29	0.48
1:r:488:TRP:HZ3	1:r:502:LYS:HB2	1.79	0.48
1:r:643:PRO:HG2	1:x:240:PRO:HB3	1.94	0.48
1:t:465:PRO:HB3	1:u:496:LEU:HD12	1.96	0.48
1:u:465:PRO:HB3	1:v:496:LEU:HD12	1.96	0.48
1:x:575:ALA:HA	1:y:482:ASN:ND2	2.29	0.48
1:3:240:PRO:HB3	1:8:643:PRO:HG2	1.95	0.48
1:5:496:LEU:HD12	1:7:465:PRO:HB3	1.96	0.48
1:B:496:LEU:HD12	1:L:465:PRO:HB3	1.96	0.47
1:D:496:LEU:HD12	1:P:465:PRO:HB3	1.96	0.47
1:E:469:CYS:HB2	1:F:565:ILE:HD11	1.95	0.47
1:F:482:ASN:ND2	1:Q:575:ALA:HA	2.29	0.47
1:H:496:LEU:HD12	1:Y:465:PRO:HB3	1.96	0.47
1:K:575:ALA:HA	1:a:482:ASN:ND2	2.29	0.47
1:O:469:CYS:HB2	1:n:565:ILE:HD11	1.95	0.47
1:Q:507:GLN:O	1:Q:509:ASN:N	2.47	0.47
1:U:507:GLN:O	1:U:509:ASN:N	2.47	0.47
1:c:507:GLN:O	1:c:509:ASN:N	2.47	0.47
1:c:565:ILE:HD11	1:o:469:CYS:HB2	1.95	0.47
1:d:565:ILE:HD11	1:l:469:CYS:HB2	1.95	0.47
1:e:507:GLN:O	1:e:509:ASN:N	2.47	0.47
1:k:488:TRP:HZ3	1:k:502:LYS:HB2	1.79	0.47
1:l:488:TRP:HZ3	1:l:502:LYS:HB2	1.79	0.47
1:w:575:ALA:HA	1:x:482:ASN:ND2	2.29	0.47
1:x:507:GLN:O	1:x:509:ASN:N	2.47	0.47
1:z:532:ALA:O	1:2:449:ARG:HD3	2.13	0.47
1:A:575:ALA:HA	1:G:482:ASN:ND2	2.29	0.47
1:E:507:GLN:O	1:E:509:ASN:N	2.47	0.47
1:H:575:ALA:HA	1:W:482:ASN:ND2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:488:TRP:HZ3	1:K:502:LYS:HB2	1.79	0.47
1:Q:488:TRP:HZ3	1:Q:502:LYS:HB2	1.79	0.47
1:R:449:ARG:HD3	1:S:532:ALA:O	2.14	0.47
1:d:507:GLN:O	1:d:509:ASN:N	2.47	0.47
1:g:482:ASN:ND2	1:h:575:ALA:HA	2.29	0.47
1:n:507:GLN:O	1:n:509:ASN:N	2.47	0.47
1:q:449:ARG:HD3	1:r:532:ALA:O	2.14	0.47
1:s:507:GLN:O	1:s:509:ASN:N	2.47	0.47
1:z:488:TRP:HZ3	1:z:502:LYS:HB2	1.79	0.47
1:K:482:ASN:ND2	1:8:575:ALA:HA	2.29	0.47
1:L:488:TRP:HZ3	1:L:502:LYS:HB2	1.79	0.47
1:S:507:GLN:O	1:S:509:ASN:N	2.47	0.47
1:S:575:ALA:HA	1:U:482:ASN:ND2	2.29	0.47
1:X:488:TRP:HZ3	1:X:502:LYS:HB2	1.79	0.47
1:Z:575:ALA:HA	1:4:482:ASN:ND2	2.29	0.47
1:o:488:TRP:HZ3	1:o:502:LYS:HB2	1.79	0.47
1:r:575:ALA:HA	1:s:482:ASN:ND2	2.29	0.47
1:w:507:GLN:O	1:w:509:ASN:N	2.47	0.47
1:x:488:TRP:HZ3	1:x:502:LYS:HB2	1.79	0.47
1:y:276:HIS:HD2	1:y:352:PRO:HB3	1.79	0.47
1:4:488:TRP:HZ3	1:4:502:LYS:HB2	1.79	0.47
1:5:575:ALA:HA	1:6:482:ASN:ND2	2.29	0.47
1:C:507:GLN:O	1:C:509:ASN:N	2.47	0.47
1:E:482:ASN:ND2	1:F:575:ALA:HA	2.29	0.47
1:T:488:TRP:HZ3	1:T:502:LYS:HB2	1.79	0.47
1:Z:482:ASN:ND2	1:3:575:ALA:HA	2.29	0.47
1:a:575:ALA:HA	1:8:482:ASN:ND2	2.29	0.47
1:f:469:CYS:HB2	1:g:565:ILE:HD11	1.95	0.47
1:g:507:GLN:O	1:g:509:ASN:N	2.47	0.47
1:q:469:CYS:HB2	1:s:565:ILE:HD11	1.96	0.47
1:t:482:ASN:ND2	1:v:575:ALA:HA	2.29	0.47
1:C:565:ILE:HD11	1:b:469:CYS:HB2	1.95	0.47
1:D:575:ALA:HA	1:N:482:ASN:ND2	2.29	0.47
1:M:507:GLN:O	1:M:509:ASN:N	2.47	0.47
1:R:469:CYS:HB2	1:U:565:ILE:HD11	1.96	0.47
1:T:507:GLN:O	1:T:509:ASN:N	2.47	0.47
1:W:507:GLN:O	1:W:509:ASN:N	2.47	0.47
1:X:496:LEU:HD12	1:e:465:PRO:HB3	1.96	0.47
1:c:465:PRO:HB3	1:o:496:LEU:HD12	1.96	0.47
1:d:488:TRP:HZ3	1:d:502:LYS:HB2	1.79	0.47
1:i:482:ASN:ND2	1:k:575:ALA:HA	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:488:TRP:HZ3	1:n:502:LYS:HB2	1.79	0.47
1:q:445:ASN:HB2	1:r:536:ALA:O	2.13	0.47
1:r:507:GLN:O	1:r:509:ASN:N	2.47	0.47
1:t:276:HIS:HD2	1:t:352:PRO:HB3	1.78	0.47
1:w:482:ASN:ND2	1:y:575:ALA:HA	2.29	0.47
1:1:488:TRP:HZ3	1:1:502:LYS:HB2	1.79	0.47
1:A:469:CYS:HB2	1:I:565:ILE:HD11	1.95	0.47
1:E:416:MET:O	1:E:715:ARG:HA	2.15	0.47
1:G:575:ALA:HA	1:I:482:ASN:ND2	2.29	0.47
1:P:416:MET:O	1:P:715:ARG:HA	2.15	0.47
1:R:445:ASN:HB2	1:S:536:ALA:O	2.13	0.47
1:T:416:MET:O	1:T:715:ARG:HA	2.15	0.47
1:f:507:GLN:O	1:f:509:ASN:N	2.47	0.47
1:h:507:GLN:O	1:h:509:ASN:N	2.47	0.47
1:m:416:MET:O	1:m:715:ARG:HA	2.15	0.47
1:m:488:TRP:HZ3	1:m:502:LYS:HB2	1.79	0.47
1:m:507:GLN:O	1:m:509:ASN:N	2.47	0.47
1:u:565:ILE:HD11	1:v:469:CYS:HB2	1.95	0.47
1:6:465:PRO:HB3	1:7:496:LEU:HD12	1.96	0.47
1:6:507:GLN:O	1:6:509:ASN:N	2.47	0.47
1:A:586:VAL:HA	1:A:590:MET:CE	2.45	0.47
1:B:488:TRP:HZ3	1:B:502:LYS:HB2	1.79	0.47
1:C:586:VAL:HA	1:C:590:MET:CE	2.45	0.47
1:E:229:VAL:HG13	1:E:670:TRP:HB2	1.97	0.47
1:E:488:TRP:HZ3	1:E:502:LYS:HB2	1.79	0.47
1:E:496:LEU:HD12	1:F:465:PRO:HB3	1.96	0.47
1:F:416:MET:O	1:F:715:ARG:HA	2.15	0.47
1:G:276:HIS:HD2	1:G:352:PRO:HB3	1.79	0.47
1:G:586:VAL:HA	1:G:590:MET:CE	2.45	0.47
1:J:416:MET:O	1:J:715:ARG:HA	2.15	0.47
1:M:416:MET:O	1:M:715:ARG:HA	2.15	0.47
1:O:507:GLN:O	1:O:509:ASN:N	2.47	0.47
1:V:416:MET:O	1:V:715:ARG:HA	2.15	0.47
1:W:465:PRO:HB3	1:Y:496:LEU:HD12	1.96	0.47
1:W:565:ILE:HD11	1:Y:469:CYS:HB2	1.95	0.47
1:Y:416:MET:O	1:Y:715:ARG:HA	2.15	0.47
1:Z:276:HIS:HD2	1:Z:352:PRO:HB3	1.78	0.47
1:Z:416:MET:O	1:Z:715:ARG:HA	2.15	0.47
1:g:586:VAL:HA	1:g:590:MET:CE	2.45	0.47
1:h:416:MET:O	1:h:715:ARG:HA	2.15	0.47
1:j:416:MET:O	1:j:715:ARG:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:507:GLN:O	1:l:509:ASN:N	2.47	0.47
1:o:507:GLN:O	1:o:509:ASN:N	2.47	0.47
1:p:416:MET:O	1:p:715:ARG:HA	2.15	0.47
1:q:488:TRP:HZ3	1:q:502:LYS:HB2	1.79	0.47
1:t:575:ALA:HA	1:u:482:ASN:ND2	2.29	0.47
1:u:229:VAL:HG13	1:u:670:TRP:HB2	1.97	0.47
1:v:586:VAL:HA	1:v:590:MET:CE	2.45	0.47
1:w:229:VAL:HG13	1:w:670:TRP:HB2	1.97	0.47
1:w:416:MET:O	1:w:715:ARG:HA	2.15	0.47
1:w:496:LEU:HD12	1:y:465:PRO:HB3	1.96	0.47
1:y:416:MET:O	1:y:715:ARG:HA	2.15	0.47
1:2:416:MET:O	1:2:715:ARG:HA	2.15	0.47
1:7:416:MET:O	1:7:715:ARG:HA	2.15	0.47
1:8:276:HIS:HD2	1:8:352:PRO:HB3	1.78	0.47
1:8:416:MET:O	1:8:715:ARG:HA	2.15	0.47
1:B:465:PRO:HB3	1:J:496:LEU:HD12	1.97	0.47
1:I:229:VAL:HG13	1:I:670:TRP:HB2	1.97	0.47
1:J:229:VAL:HG13	1:J:670:TRP:HB2	1.97	0.47
1:R:488:TRP:HZ3	1:R:502:LYS:HB2	1.79	0.47
1:V:575:ALA:HA	1:e:482:ASN:ND2	2.29	0.47
1:X:507:GLN:O	1:X:509:ASN:N	2.47	0.47
1:Z:507:GLN:O	1:Z:509:ASN:N	2.47	0.47
1:a:416:MET:O	1:a:715:ARG:HA	2.15	0.47
1:a:465:PRO:HB3	1:8:496:LEU:HD12	1.96	0.47
1:a:507:GLN:O	1:a:509:ASN:N	2.47	0.47
1:b:507:GLN:O	1:b:509:ASN:N	2.47	0.47
1:k:507:GLN:O	1:k:509:ASN:N	2.47	0.47
1:m:465:PRO:HB3	1:n:496:LEU:HD12	1.96	0.47
1:t:586:VAL:HA	1:t:590:MET:CE	2.45	0.47
1:1:416:MET:O	1:1:715:ARG:HA	2.15	0.47
1:1:465:PRO:HB3	1:2:496:LEU:HD12	1.97	0.47
1:2:229:VAL:HG13	1:2:670:TRP:HB2	1.97	0.47
1:B:416:MET:O	1:B:715:ARG:HA	2.15	0.47
1:D:507:GLN:O	1:D:509:ASN:N	2.47	0.47
1:F:229:VAL:HG13	1:F:670:TRP:HB2	1.97	0.47
1:N:229:VAL:HG13	1:N:670:TRP:HB2	1.97	0.47
1:R:507:GLN:O	1:R:509:ASN:N	2.47	0.47
1:R:586:VAL:HA	1:R:590:MET:CE	2.45	0.47
1:T:465:PRO:HB3	1:d:496:LEU:HD12	1.96	0.47
1:W:229:VAL:HG13	1:W:670:TRP:HB2	1.97	0.47
1:Z:496:LEU:HD12	1:3:465:PRO:HB3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:482:ASN:ND2	1:p:575:ALA:HA	2.29	0.47
1:e:416:MET:O	1:e:715:ARG:HA	2.15	0.47
1:i:229:VAL:HG13	1:i:670:TRP:HB2	1.97	0.47
1:q:507:GLN:O	1:q:509:ASN:N	2.47	0.47
1:q:586:VAL:HA	1:q:590:MET:CE	2.45	0.47
1:r:586:VAL:HA	1:r:590:MET:CE	2.45	0.47
1:t:507:GLN:O	1:t:509:ASN:N	2.47	0.47
1:u:575:ALA:HA	1:v:482:ASN:ND2	2.29	0.47
1:w:488:TRP:HZ3	1:w:502:LYS:HB2	1.79	0.47
1:y:229:VAL:HG13	1:y:670:TRP:HB2	1.97	0.47
1:3:416:MET:O	1:3:715:ARG:HA	2.15	0.47
1:3:507:GLN:O	1:3:509:ASN:N	2.47	0.47
1:6:229:VAL:HG13	1:6:670:TRP:HB2	1.97	0.47
1:A:229:VAL:HG13	1:A:670:TRP:HB2	1.97	0.47
1:E:329:GLN:HE21	1:E:635:LYS:HE2	1.81	0.47
1:H:229:VAL:HG13	1:H:670:TRP:HB2	1.97	0.47
1:N:416:MET:O	1:N:715:ARG:HA	2.15	0.47
1:O:586:VAL:HA	1:O:590:MET:CE	2.45	0.47
1:S:586:VAL:HA	1:S:590:MET:CE	2.45	0.47
1:c:416:MET:O	1:c:715:ARG:HA	2.15	0.47
1:i:276:HIS:HD2	1:i:352:PRO:HB3	1.78	0.47
1:i:416:MET:O	1:i:715:ARG:HA	2.15	0.47
1:n:586:VAL:HA	1:n:590:MET:CE	2.45	0.47
1:v:229:VAL:HG13	1:v:670:TRP:HB2	1.97	0.47
1:v:416:MET:O	1:v:715:ARG:HA	2.15	0.47
1:y:507:GLN:O	1:y:509:ASN:N	2.47	0.47
1:5:416:MET:O	1:5:715:ARG:HA	2.15	0.47
1:6:416:MET:O	1:6:715:ARG:HA	2.15	0.47
1:6:565:ILE:HD11	1:7:469:CYS:HB2	1.95	0.47
1:8:507:GLN:O	1:8:509:ASN:N	2.47	0.47
1:A:416:MET:O	1:A:715:ARG:HA	2.15	0.46
1:B:469:CYS:HB2	1:L:565:ILE:HD11	1.96	0.46
1:C:678:LYS:HD3	1:b:391:PHE:CE1	2.51	0.46
1:D:416:MET:O	1:D:715:ARG:HA	2.15	0.46
1:E:465:PRO:HB3	1:Q:496:LEU:HD12	1.96	0.46
1:F:469:CYS:HB2	1:Q:565:ILE:HD11	1.95	0.46
1:F:507:GLN:O	1:F:509:ASN:N	2.47	0.46
1:G:329:GLN:HE21	1:G:635:LYS:HE2	1.81	0.46
1:G:507:GLN:O	1:G:509:ASN:N	2.47	0.46
1:H:416:MET:O	1:H:715:ARG:HA	2.15	0.46
1:J:507:GLN:O	1:J:509:ASN:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:229:VAL:HG13	1:K:670:TRP:HB2	1.97	0.46
1:L:416:MET:O	1:L:715:ARG:HA	2.15	0.46
1:P:586:VAL:HA	1:P:590:MET:CE	2.45	0.46
1:T:575:ALA:HA	1:d:482:ASN:ND2	2.29	0.46
1:U:229:VAL:HG13	1:U:670:TRP:HB2	1.97	0.46
1:W:416:MET:O	1:W:715:ARG:HA	2.15	0.46
1:X:586:VAL:HA	1:X:590:MET:CE	2.45	0.46
1:a:229:VAL:HG13	1:a:670:TRP:HB2	1.97	0.46
1:e:329:GLN:HE21	1:e:635:LYS:HE2	1.81	0.46
1:f:391:PHE:CE1	1:g:678:LYS:HD3	2.51	0.46
1:i:496:LEU:HD12	1:k:465:PRO:HB3	1.96	0.46
1:l:416:MET:O	1:l:715:ARG:HA	2.15	0.46
1:l:586:VAL:HA	1:l:590:MET:CE	2.45	0.46
1:m:586:VAL:HA	1:m:590:MET:CE	2.45	0.46
1:s:229:VAL:HG13	1:s:670:TRP:HB2	1.97	0.46
1:s:416:MET:O	1:s:715:ARG:HA	2.15	0.46
1:t:329:GLN:HE21	1:t:635:LYS:HE2	1.81	0.46
1:u:507:GLN:O	1:u:509:ASN:N	2.47	0.46
1:v:507:GLN:O	1:v:509:ASN:N	2.47	0.46
1:w:329:GLN:HE21	1:w:635:LYS:HE2	1.81	0.46
1:w:465:PRO:HB3	1:x:496:LEU:HD12	1.96	0.46
1:2:507:GLN:O	1:2:509:ASN:N	2.47	0.46
1:3:229:VAL:HG13	1:3:670:TRP:HB2	1.97	0.46
1:5:229:VAL:HG13	1:5:670:TRP:HB2	1.97	0.46
1:A:482:ASN:ND2	1:I:575:ALA:HA	2.29	0.46
1:A:507:GLN:O	1:A:509:ASN:N	2.47	0.46
1:B:209:ASP:OD1	1:C:213:GLN:NE2	2.48	0.46
1:D:465:PRO:HB3	1:N:496:LEU:HD12	1.96	0.46
1:H:276:HIS:HD2	1:H:352:PRO:HB3	1.79	0.46
1:I:507:GLN:O	1:I:509:ASN:N	2.47	0.46
1:K:496:LEU:HD12	1:8:465:PRO:HB3	1.96	0.46
1:L:213:GLN:NE2	1:b:209:ASP:OD1	2.49	0.46
1:N:276:HIS:HD2	1:N:352:PRO:HB3	1.78	0.46
1:N:488:TRP:HZ3	1:N:502:LYS:HB2	1.79	0.46
1:O:416:MET:O	1:O:715:ARG:HA	2.15	0.46
1:Q:416:MET:O	1:Q:715:ARG:HA	2.15	0.46
1:U:416:MET:O	1:U:715:ARG:HA	2.15	0.46
1:Z:465:PRO:HB3	1:4:496:LEU:HD12	1.96	0.46
1:b:213:GLN:NE2	1:o:209:ASP:OD1	2.48	0.46
1:c:329:GLN:HE21	1:c:635:LYS:HE2	1.81	0.46
1:d:586:VAL:HA	1:d:590:MET:CE	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:488:TRP:HZ3	1:f:502:LYS:HB2	1.79	0.46
1:g:229:VAL:HG13	1:g:670:TRP:HB2	1.97	0.46
1:h:329:GLN:HE21	1:h:635:LYS:HE2	1.81	0.46
1:j:586:VAL:HA	1:j:590:MET:CE	2.45	0.46
1:k:416:MET:O	1:k:715:ARG:HA	2.15	0.46
1:m:575:ALA:HA	1:n:482:ASN:ND2	2.29	0.46
1:o:586:VAL:HA	1:o:590:MET:CE	2.45	0.46
1:q:229:VAL:HG13	1:q:670:TRP:HB2	1.97	0.46
1:x:416:MET:O	1:x:715:ARG:HA	2.15	0.46
1:x:565:ILE:HD11	1:y:469:CYS:HB2	1.95	0.46
1:z:209:ASP:OD1	1:4:213:GLN:NE2	2.48	0.46
1:z:496:LEU:HD12	1:2:465:PRO:HB3	1.96	0.46
1:C:229:VAL:HG13	1:C:670:TRP:HB2	1.97	0.46
1:F:329:GLN:HE21	1:F:635:LYS:HE2	1.81	0.46
1:F:391:PHE:CE1	1:Q:678:LYS:HD3	2.51	0.46
1:J:488:TRP:HZ3	1:J:502:LYS:HB2	1.79	0.46
1:L:586:VAL:HA	1:L:590:MET:CE	2.45	0.46
1:M:329:GLN:HE21	1:M:635:LYS:HE2	1.81	0.46
1:O:213:GLN:NE2	1:P:209:ASP:OD1	2.49	0.46
1:P:329:GLN:HE21	1:P:635:LYS:HE2	1.81	0.46
1:S:329:GLN:HE21	1:S:635:LYS:HE2	1.80	0.46
1:T:209:ASP:OD1	1:i:213:GLN:NE2	2.49	0.46
1:Y:586:VAL:HA	1:Y:590:MET:CE	2.45	0.46
1:g:213:GLN:NE2	1:1:209:ASP:OD1	2.48	0.46
1:i:488:TRP:HZ3	1:i:502:LYS:HB2	1.79	0.46
1:j:209:ASP:OD1	1:l:213:GLN:NE2	2.49	0.46
1:q:276:HIS:HD2	1:q:352:PRO:HB3	1.78	0.46
1:x:329:GLN:HE21	1:x:635:LYS:HE2	1.80	0.46
1:y:329:GLN:HE21	1:y:635:LYS:HE2	1.81	0.46
1:z:416:MET:O	1:z:715:ARG:HA	2.15	0.46
1:z:586:VAL:HA	1:z:590:MET:CE	2.45	0.46
1:4:229:VAL:HG13	1:4:670:TRP:HB2	1.97	0.46
1:5:507:GLN:O	1:5:509:ASN:N	2.47	0.46
1:6:504:ALA:HA	1:6:505:PRO:HA	1.78	0.46
1:7:586:VAL:HA	1:7:590:MET:CE	2.45	0.46
1:A:391:PHE:CE1	1:I:678:LYS:HD3	2.51	0.46
1:C:391:PHE:CE1	1:M:678:LYS:HD3	2.51	0.46
1:G:678:LYS:HD3	1:I:391:PHE:CE1	2.51	0.46
1:H:465:PRO:HB3	1:W:496:LEU:HD12	1.96	0.46
1:H:507:GLN:O	1:H:509:ASN:N	2.47	0.46
1:K:329:GLN:HE21	1:K:635:LYS:HE2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:416:MET:O	1:K:715:ARG:HA	2.15	0.46
1:M:229:VAL:HG13	1:M:670:TRP:HB2	1.97	0.46
1:N:213:GLN:NE2	1:m:209:ASP:OD1	2.49	0.46
1:O:229:VAL:HG13	1:O:670:TRP:HB2	1.97	0.46
1:R:229:VAL:HG13	1:R:670:TRP:HB2	1.97	0.46
1:R:276:HIS:HD2	1:R:352:PRO:HB3	1.79	0.46
1:T:482:ASN:ND2	1:l:575:ALA:HA	2.29	0.46
1:V:391:PHE:CE1	1:X:678:LYS:HD3	2.51	0.46
1:X:209:ASP:OD1	1:f:213:GLN:NE2	2.49	0.46
1:X:213:GLN:NE2	1:Y:209:ASP:OD1	2.49	0.46
1:X:416:MET:O	1:X:715:ARG:HA	2.15	0.46
1:b:488:TRP:HZ3	1:b:502:LYS:HB2	1.79	0.46
1:f:643:PRO:HG2	1:z:240:PRO:HB3	1.96	0.46
1:g:391:PHE:CE1	1:h:678:LYS:HD3	2.51	0.46
1:h:229:VAL:HG13	1:h:670:TRP:HB2	1.97	0.46
1:j:329:GLN:HE21	1:j:635:LYS:HE2	1.81	0.46
1:l:229:VAL:HG13	1:l:670:TRP:HB2	1.97	0.46
1:n:229:VAL:HG13	1:n:670:TRP:HB2	1.97	0.46
1:p:507:GLN:O	1:p:509:ASN:N	2.47	0.46
1:q:416:MET:O	1:q:715:ARG:HA	2.15	0.46
1:t:678:LYS:HD3	1:u:391:PHE:CE1	2.51	0.46
1:u:678:LYS:HD3	1:v:391:PHE:CE1	2.51	0.46
1:x:678:LYS:HD3	1:y:391:PHE:CE1	2.51	0.46
1:2:488:TRP:HZ3	1:2:502:LYS:HB2	1.79	0.46
1:4:329:GLN:HE21	1:4:635:LYS:HE2	1.81	0.46
1:5:465:PRO:HB3	1:6:496:LEU:HD12	1.96	0.46
1:6:276:HIS:HD2	1:6:352:PRO:HB3	1.78	0.46
1:8:229:VAL:HG13	1:8:670:TRP:HB2	1.97	0.46
1:E:276:HIS:HD2	1:E:352:PRO:HB3	1.79	0.46
1:L:507:GLN:O	1:L:509:ASN:N	2.47	0.46
1:O:391:PHE:CE1	1:n:678:LYS:HD3	2.51	0.46
1:O:575:ALA:HA	1:m:482:ASN:ND2	2.29	0.46
1:Q:329:GLN:HE21	1:Q:635:LYS:HE2	1.81	0.46
1:R:416:MET:O	1:R:715:ARG:HA	2.15	0.46
1:S:229:VAL:HG13	1:S:670:TRP:HB2	1.97	0.46
1:S:416:MET:O	1:S:715:ARG:HA	2.15	0.46
1:T:678:LYS:HD3	1:d:391:PHE:CE1	2.50	0.46
1:V:507:GLN:O	1:V:509:ASN:N	2.47	0.46
1:X:391:PHE:CE1	1:e:678:LYS:HD3	2.51	0.46
1:Z:229:VAL:HG13	1:Z:670:TRP:HB2	1.97	0.46
1:c:678:LYS:HD3	1:o:391:PHE:CE1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:229:VAL:HG13	1:d:670:TRP:HB2	1.97	0.46
1:d:678:LYS:HD3	1:l:391:PHE:CE1	2.51	0.46
1:g:329:GLN:HE21	1:g:635:LYS:HE2	1.80	0.46
1:m:678:LYS:HD3	1:n:391:PHE:CE1	2.50	0.46
1:o:213:GLN:NE2	1:7:209:ASP:OD1	2.49	0.46
1:o:416:MET:O	1:o:715:ARG:HA	2.15	0.46
1:o:678:LYS:HD3	1:p:391:PHE:CE1	2.51	0.46
1:u:586:VAL:HA	1:u:590:MET:CE	2.45	0.46
1:v:488:TRP:HZ3	1:v:502:LYS:HB2	1.79	0.46
1:w:276:HIS:HD2	1:w:352:PRO:HB3	1.78	0.46
1:z:391:PHE:CE1	1:2:678:LYS:HD3	2.51	0.46
1:z:397:ARG:HE	1:4:214:SER:HA	1.79	0.46
1:1:507:GLN:O	1:1:509:ASN:N	2.47	0.46
1:5:276:HIS:HD2	1:5:352:PRO:HB3	1.79	0.46
1:7:488:TRP:HZ3	1:7:502:LYS:HB2	1.79	0.46
1:B:507:GLN:O	1:B:509:ASN:N	2.47	0.46
1:D:329:GLN:HE21	1:D:635:LYS:HE2	1.80	0.46
1:I:586:VAL:HA	1:I:590:MET:CE	2.45	0.46
1:Y:488:TRP:HZ3	1:Y:502:LYS:HB2	1.79	0.46
1:b:276:HIS:HD2	1:b:352:PRO:HB3	1.79	0.46
1:b:416:MET:O	1:b:715:ARG:HA	2.15	0.46
1:f:276:HIS:HD2	1:f:352:PRO:HB3	1.78	0.46
1:n:416:MET:O	1:n:715:ARG:HA	2.15	0.46
1:p:214:SER:HA	1:q:397:ARG:HE	1.81	0.46
1:r:229:VAL:HG13	1:r:670:TRP:HB2	1.97	0.46
1:r:416:MET:O	1:r:715:ARG:HA	2.15	0.46
1:u:329:GLN:HE21	1:u:635:LYS:HE2	1.80	0.46
1:z:507:GLN:O	1:z:509:ASN:N	2.47	0.46
1:4:416:MET:O	1:4:715:ARG:HA	2.15	0.46
1:A:488:TRP:HZ3	1:A:502:LYS:HB2	1.79	0.46
1:C:329:GLN:HE21	1:C:635:LYS:HE2	1.81	0.46
1:I:329:GLN:HE21	1:I:635:LYS:HE2	1.81	0.46
1:J:353:PHE:CE2	1:J:355:ALA:HB3	2.51	0.46
1:J:465:PRO:HB3	1:L:496:LEU:HD12	1.96	0.46
1:K:586:VAL:HA	1:K:590:MET:CE	2.45	0.46
1:K:678:LYS:HD3	1:a:391:PHE:CE1	2.50	0.46
1:M:327:THR:HG22	1:M:397:ARG:HG2	1.98	0.46
1:N:329:GLN:HE21	1:N:635:LYS:HE2	1.81	0.46
1:O:678:LYS:HD3	1:m:391:PHE:CE1	2.51	0.46
1:R:397:ARG:HE	1:V:214:SER:HA	1.81	0.46
1:S:353:PHE:CE2	1:S:355:ALA:HB3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:353:PHE:CE2	1:U:355:ALA:HB3	2.51	0.46
1:W:276:HIS:HD2	1:W:352:PRO:HB3	1.78	0.46
1:Z:347:GLU:OE2	1:3:450:LYS:NZ	2.26	0.46
1:a:327:THR:HG22	1:a:397:ARG:HG2	1.98	0.46
1:a:586:VAL:HA	1:a:590:MET:CE	2.45	0.46
1:d:329:GLN:HE21	1:d:635:LYS:HE2	1.81	0.46
1:d:416:MET:O	1:d:715:ARG:HA	2.15	0.46
1:f:416:MET:O	1:f:715:ARG:HA	2.15	0.46
1:h:327:THR:HG22	1:h:397:ARG:HG2	1.98	0.46
1:r:329:GLN:HE21	1:r:635:LYS:HE2	1.81	0.46
1:r:353:PHE:CE2	1:r:355:ALA:HB3	2.51	0.46
1:w:391:PHE:CE1	1:y:678:LYS:HD3	2.51	0.46
1:y:353:PHE:CE2	1:y:355:ALA:HB3	2.51	0.46
1:4:586:VAL:HA	1:4:590:MET:CE	2.45	0.46
1:C:416:MET:O	1:C:715:ARG:HA	2.15	0.46
1:E:391:PHE:CE1	1:F:678:LYS:HD3	2.51	0.46
1:F:353:PHE:CE2	1:F:355:ALA:HB3	2.51	0.46
1:G:229:VAL:HG13	1:G:670:TRP:HB2	1.97	0.46
1:H:353:PHE:CE2	1:H:355:ALA:HB3	2.51	0.46
1:I:213:GLN:NE2	1:J:209:ASP:OD1	2.49	0.46
1:K:507:GLN:O	1:K:509:ASN:N	2.47	0.46
1:P:327:THR:HG22	1:P:397:ARG:HG2	1.98	0.46
1:P:507:GLN:O	1:P:509:ASN:N	2.47	0.46
1:Q:229:VAL:HG13	1:Q:670:TRP:HB2	1.97	0.46
1:T:229:VAL:HG13	1:T:670:TRP:HB2	1.97	0.46
1:T:391:PHE:CE1	1:l:678:LYS:HD3	2.51	0.46
1:U:327:THR:HG22	1:U:397:ARG:HG2	1.98	0.46
1:U:329:GLN:HE21	1:U:635:LYS:HE2	1.81	0.46
1:a:450:LYS:NZ	1:8:347:GLU:OE2	2.26	0.46
1:i:329:GLN:HE21	1:i:635:LYS:HE2	1.81	0.46
1:j:327:THR:HG22	1:j:397:ARG:HG2	1.98	0.46
1:j:507:GLN:O	1:j:509:ASN:N	2.47	0.46
1:k:329:GLN:HE21	1:k:635:LYS:HE2	1.81	0.46
1:n:329:GLN:HE21	1:n:635:LYS:HE2	1.81	0.46
1:s:327:THR:HG22	1:s:397:ARG:HG2	1.98	0.46
1:s:353:PHE:CE2	1:s:355:ALA:HB3	2.51	0.46
1:t:229:VAL:HG13	1:t:670:TRP:HB2	1.97	0.46
1:t:327:THR:HG22	1:t:397:ARG:HG2	1.98	0.46
1:u:276:HIS:HD2	1:u:352:PRO:HB3	1.79	0.46
1:v:329:GLN:HE21	1:v:635:LYS:HE2	1.81	0.46
1:x:327:THR:HG22	1:x:397:ARG:HG2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:425:ARG:HB3	1:y:366:LEU:CD1	2.46	0.46
1:z:565:ILE:CD1	1:1:469:CYS:HB2	2.46	0.46
1:2:353:PHE:CE2	1:2:355:ALA:HB3	2.51	0.46
1:3:327:THR:HG22	1:3:397:ARG:HG2	1.98	0.46
1:3:391:PHE:CE1	1:4:678:LYS:HD3	2.51	0.46
1:3:586:VAL:HA	1:3:590:MET:CE	2.45	0.46
1:5:353:PHE:CE2	1:5:355:ALA:HB3	2.51	0.46
1:A:329:GLN:HE21	1:A:635:LYS:HE2	1.81	0.46
1:B:397:ARG:HE	1:C:214:SER:HA	1.81	0.46
1:D:229:VAL:HG13	1:D:670:TRP:HB2	1.97	0.46
1:D:353:PHE:CE2	1:D:355:ALA:HB3	2.51	0.46
1:F:366:LEU:CD1	1:Q:425:ARG:HB3	2.46	0.46
1:G:327:THR:HG22	1:G:397:ARG:HG2	1.98	0.46
1:I:276:HIS:HD2	1:I:352:PRO:HB3	1.78	0.46
1:I:416:MET:O	1:I:715:ARG:HA	2.15	0.46
1:J:678:LYS:HD3	1:L:391:PHE:CE1	2.51	0.46
1:K:353:PHE:CE2	1:K:355:ALA:HB3	2.51	0.46
1:M:213:GLN:NE2	1:N:209:ASP:OD1	2.49	0.46
1:M:391:PHE:CE1	1:b:678:LYS:HD3	2.51	0.46
1:Q:213:GLN:NE2	1:S:209:ASP:OD1	2.49	0.46
1:Q:327:THR:HG22	1:Q:397:ARG:HG2	1.98	0.46
1:U:213:GLN:NE2	1:e:209:ASP:OD1	2.49	0.46
1:W:488:TRP:HZ3	1:W:502:LYS:HB2	1.79	0.46
1:Z:586:VAL:HA	1:Z:590:MET:CE	2.45	0.46
1:c:209:ASP:OD1	1:s:213:GLN:NE2	2.49	0.46
1:g:416:MET:O	1:g:715:ARG:HA	2.15	0.46
1:k:229:VAL:HG13	1:k:670:TRP:HB2	1.97	0.46
1:k:353:PHE:CE2	1:k:355:ALA:HB3	2.51	0.46
1:m:229:VAL:HG13	1:m:670:TRP:HB2	1.97	0.46
1:n:353:PHE:CE2	1:n:355:ALA:HB3	2.51	0.46
1:o:353:PHE:CE2	1:o:355:ALA:HB3	2.51	0.46
1:r:209:ASP:OD1	1:x:213:GLN:NE2	2.49	0.46
1:x:229:VAL:HG13	1:x:670:TRP:HB2	1.97	0.46
1:z:469:CYS:HB2	1:2:565:ILE:HD11	1.97	0.46
1:4:353:PHE:CE2	1:4:355:ALA:HB3	2.51	0.46
1:4:507:GLN:O	1:4:509:ASN:N	2.47	0.46
1:6:488:TRP:HZ3	1:6:502:LYS:HB2	1.79	0.46
1:7:229:VAL:HG13	1:7:670:TRP:HB2	1.97	0.46
1:7:507:GLN:O	1:7:509:ASN:N	2.47	0.46
1:C:366:LEU:CD1	1:M:425:ARG:HB3	2.46	0.46
1:D:209:ASP:OD1	1:E:213:GLN:NE2	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:366:LEU:CD1	1:F:425:ARG:HB3	2.46	0.46
1:G:353:PHE:CE2	1:G:355:ALA:HB3	2.51	0.46
1:G:416:MET:O	1:G:715:ARG:HA	2.15	0.46
1:J:329:GLN:HE21	1:J:635:LYS:HE2	1.80	0.46
1:K:213:GLN:NE2	1:L:209:ASP:OD1	2.49	0.46
1:L:327:THR:HG22	1:L:397:ARG:HG2	1.98	0.46
1:M:209:ASP:OD1	1:c:213:GLN:NE2	2.48	0.46
1:N:507:GLN:O	1:N:509:ASN:N	2.47	0.46
1:R:209:ASP:OD1	1:V:213:GLN:NE2	2.48	0.46
1:T:255:THR:HG23	1:T:374:ASN:O	2.16	0.46
1:V:329:GLN:HE21	1:V:635:LYS:HE2	1.81	0.46
1:X:353:PHE:CE2	1:X:355:ALA:HB3	2.51	0.46
1:Z:488:TRP:HZ3	1:Z:502:LYS:HB2	1.79	0.46
1:b:586:VAL:HA	1:b:590:MET:CE	2.45	0.46
1:d:353:PHE:CE2	1:d:355:ALA:HB3	2.51	0.46
1:f:353:PHE:CE2	1:f:355:ALA:HB3	2.51	0.46
1:f:678:LYS:HD3	1:h:391:PHE:CE1	2.51	0.46
1:g:214:SER:HA	1:1:397:ARG:HE	1.81	0.46
1:h:213:GLN:NE2	1:i:209:ASP:OD1	2.49	0.46
1:i:449:ARG:HD3	1:j:532:ALA:O	2.16	0.46
1:k:586:VAL:HA	1:k:590:MET:CE	2.45	0.46
1:l:353:PHE:CE2	1:l:355:ALA:HB3	2.51	0.46
1:p:213:GLN:NE2	1:q:209:ASP:OD1	2.48	0.46
1:t:353:PHE:CE2	1:t:355:ALA:HB3	2.51	0.46
1:u:213:GLN:NE2	1:2:209:ASP:OD1	2.49	0.46
1:w:366:LEU:CD1	1:y:425:ARG:HB3	2.46	0.46
1:z:327:THR:HG22	1:z:397:ARG:HG2	1.98	0.46
1:z:329:GLN:HE21	1:z:635:LYS:HE2	1.80	0.46
1:z:435:LEU:HD22	1:1:522:LEU:HD12	1.97	0.46
1:1:329:GLN:HE21	1:1:635:LYS:HE2	1.81	0.46
1:8:586:VAL:HA	1:8:590:MET:CE	2.45	0.46
1:A:425:ARG:HB3	1:G:366:LEU:CD1	2.46	0.45
1:B:532:ALA:O	1:L:449:ARG:HD3	2.16	0.45
1:D:327:THR:HG22	1:D:397:ARG:HG2	1.98	0.45
1:E:255:THR:HG23	1:E:374:ASN:O	2.16	0.45
1:E:678:LYS:HD3	1:Q:391:PHE:CE1	2.51	0.45
1:F:213:GLN:NE2	1:G:209:ASP:OD1	2.49	0.45
1:K:425:ARG:HB3	1:a:366:LEU:CD1	2.46	0.45
1:N:449:ARG:HD3	1:P:532:ALA:O	2.16	0.45
1:N:678:LYS:HD3	1:P:391:PHE:CE1	2.51	0.45
1:O:353:PHE:CE2	1:O:355:ALA:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:276:HIS:HD2	1:Q:352:PRO:HB3	1.78	0.45
1:Q:353:PHE:CE2	1:Q:355:ALA:HB3	2.51	0.45
1:R:255:THR:HG23	1:R:374:ASN:O	2.17	0.45
1:R:532:ALA:O	1:U:449:ARG:HD3	2.16	0.45
1:S:213:GLN:NE2	1:d:209:ASP:OD1	2.48	0.45
1:S:425:ARG:HB3	1:U:366:LEU:CD1	2.46	0.45
1:T:327:THR:HG22	1:T:397:ARG:HG2	1.98	0.45
1:U:255:THR:HG23	1:U:374:ASN:O	2.16	0.45
1:U:586:VAL:HA	1:U:590:MET:CE	2.45	0.45
1:W:353:PHE:CE2	1:W:355:ALA:HB3	2.51	0.45
1:Y:229:VAL:HG13	1:Y:670:TRP:HB2	1.97	0.45
1:Y:507:GLN:O	1:Y:509:ASN:N	2.47	0.45
1:b:353:PHE:CE2	1:b:355:ALA:HB3	2.51	0.45
1:b:504:ALA:HA	1:b:505:PRO:HA	1.78	0.45
1:c:327:THR:HG22	1:c:397:ARG:HG2	1.98	0.45
1:e:213:GLN:NE2	1:h:209:ASP:OD1	2.48	0.45
1:e:327:THR:HG22	1:e:397:ARG:HG2	1.98	0.45
1:g:327:THR:HG22	1:g:397:ARG:HG2	1.98	0.45
1:i:507:GLN:O	1:i:509:ASN:N	2.47	0.45
1:i:678:LYS:HD3	1:j:391:PHE:CE1	2.51	0.45
1:k:209:ASP:OD1	1:w:213:GLN:NE2	2.49	0.45
1:m:255:THR:HG23	1:m:374:ASN:O	2.17	0.45
1:m:327:THR:HG22	1:m:397:ARG:HG2	1.98	0.45
1:q:255:THR:HG23	1:q:374:ASN:O	2.17	0.45
1:s:255:THR:HG23	1:s:374:ASN:O	2.16	0.45
1:s:329:GLN:HE21	1:s:635:LYS:HE2	1.81	0.45
1:t:366:LEU:CD1	1:v:425:ARG:HB3	2.46	0.45
1:u:416:MET:O	1:u:715:ARG:HA	2.15	0.45
1:x:353:PHE:CE2	1:x:355:ALA:HB3	2.51	0.45
1:y:255:THR:HG23	1:y:374:ASN:O	2.16	0.45
1:6:353:PHE:CE2	1:6:355:ALA:HB3	2.51	0.45
1:8:488:TRP:HZ3	1:8:502:LYS:HB2	1.79	0.45
1:A:678:LYS:HD3	1:G:391:PHE:CE1	2.51	0.45
1:C:327:THR:HG22	1:C:397:ARG:HG2	1.98	0.45
1:D:366:LEU:CD1	1:P:425:ARG:HB3	2.47	0.45
1:D:425:ARG:HB3	1:N:366:LEU:CD1	2.47	0.45
1:D:449:ARG:HD3	1:N:532:ALA:O	2.16	0.45
1:D:586:VAL:HA	1:D:590:MET:CE	2.45	0.45
1:F:255:THR:HG23	1:F:374:ASN:O	2.16	0.45
1:H:213:GLN:NE2	1:I:209:ASP:OD1	2.49	0.45
1:K:276:HIS:HD2	1:K:352:PRO:HB3	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:329:GLN:HE21	1:L:635:LYS:HE2	1.81	0.45
1:P:229:VAL:HG13	1:P:670:TRP:HB2	1.97	0.45
1:P:353:PHE:CE2	1:P:355:ALA:HB3	2.51	0.45
1:T:353:PHE:CE2	1:T:355:ALA:HB3	2.51	0.45
1:T:586:VAL:HA	1:T:590:MET:CE	2.45	0.45
1:V:209:ASP:OD1	1:W:213:GLN:NE2	2.49	0.45
1:V:229:VAL:HG13	1:V:670:TRP:HB2	1.97	0.45
1:W:449:ARG:HD3	1:Y:532:ALA:O	2.16	0.45
1:b:229:VAL:HG13	1:b:670:TRP:HB2	1.97	0.45
1:d:425:ARG:HB3	1:l:366:LEU:CD1	2.46	0.45
1:f:586:VAL:HA	1:f:590:MET:CE	2.45	0.45
1:g:366:LEU:CD1	1:h:425:ARG:HB3	2.46	0.45
1:j:353:PHE:CE2	1:j:355:ALA:HB3	2.51	0.45
1:k:327:THR:HG22	1:k:397:ARG:HG2	1.98	0.45
1:m:353:PHE:CE2	1:m:355:ALA:HB3	2.51	0.45
1:o:327:THR:HG22	1:o:397:ARG:HG2	1.98	0.45
1:p:329:GLN:HE21	1:p:635:LYS:HE2	1.81	0.45
1:r:425:ARG:HB3	1:s:366:LEU:CD1	2.46	0.45
1:s:586:VAL:HA	1:s:590:MET:CE	2.45	0.45
1:t:209:ASP:OD1	1:y:213:GLN:NE2	2.49	0.45
1:t:213:GLN:NE2	1:6:209:ASP:OD1	2.49	0.45
1:t:391:PHE:CE1	1:v:678:LYS:HD3	2.51	0.45
1:t:416:MET:O	1:t:715:ARG:HA	2.15	0.45
1:w:255:THR:HG23	1:w:374:ASN:O	2.16	0.45
1:w:678:LYS:HD3	1:x:391:PHE:CE1	2.51	0.45
1:2:213:GLN:NE2	1:3:209:ASP:OD1	2.48	0.45
1:3:366:LEU:CD1	1:4:425:ARG:HB3	2.46	0.45
1:B:329:GLN:HE21	1:B:635:LYS:HE2	1.81	0.45
1:D:532:ALA:O	1:P:449:ARG:HD3	2.17	0.45
1:D:678:LYS:HD3	1:N:391:PHE:CE1	2.51	0.45
1:H:209:ASP:OD1	1:Z:213:GLN:NE2	2.49	0.45
1:J:255:THR:HG23	1:J:374:ASN:O	2.16	0.45
1:K:255:THR:HG23	1:K:374:ASN:O	2.16	0.45
1:K:327:THR:HG22	1:K:397:ARG:HG2	1.98	0.45
1:O:366:LEU:CD1	1:n:425:ARG:HB3	2.46	0.45
1:R:353:PHE:CE2	1:R:355:ALA:HB3	2.51	0.45
1:V:678:LYS:HD3	1:e:391:PHE:CE1	2.51	0.45
1:W:425:ARG:HB3	1:Y:366:LEU:CD1	2.47	0.45
1:W:678:LYS:HD3	1:Y:391:PHE:CE1	2.51	0.45
1:X:327:THR:HG22	1:X:397:ARG:HG2	1.98	0.45
1:Y:353:PHE:CE2	1:Y:355:ALA:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:255:THR:HG23	1:Z:374:ASN:O	2.17	0.45
1:Z:329:GLN:HE21	1:Z:635:LYS:HE2	1.81	0.45
1:Z:366:LEU:CD1	1:3:425:ARG:HB3	2.46	0.45
1:Z:391:PHE:CE1	1:3:678:LYS:HD3	2.51	0.45
1:a:425:ARG:HB3	1:8:366:LEU:CD1	2.46	0.45
1:a:678:LYS:HD3	1:8:391:PHE:CE1	2.51	0.45
1:c:229:VAL:HG13	1:c:670:TRP:HB2	1.97	0.45
1:c:391:PHE:CE1	1:p:678:LYS:HD3	2.51	0.45
1:d:255:THR:HG23	1:d:374:ASN:O	2.17	0.45
1:e:229:VAL:HG13	1:e:670:TRP:HB2	1.97	0.45
1:i:366:LEU:CD1	1:k:425:ARG:HB3	2.47	0.45
1:i:391:PHE:CE1	1:k:678:LYS:HD3	2.51	0.45
1:i:532:ALA:O	1:k:449:ARG:HD3	2.17	0.45
1:j:229:VAL:HG13	1:j:670:TRP:HB2	1.97	0.45
1:j:425:ARG:HB3	1:k:366:LEU:CD1	2.47	0.45
1:l:329:GLN:HE21	1:l:635:LYS:HE2	1.81	0.45
1:n:209:ASP:OD1	1:r:213:GLN:NE2	2.48	0.45
1:p:209:ASP:OD1	1:6:213:GLN:NE2	2.49	0.45
1:p:229:VAL:HG13	1:p:670:TRP:HB2	1.97	0.45
1:q:353:PHE:CE2	1:q:355:ALA:HB3	2.51	0.45
1:q:465:PRO:HB3	1:r:496:LEU:HD12	1.97	0.45
1:q:532:ALA:O	1:s:449:ARG:HD3	2.16	0.45
1:u:209:ASP:OD1	1:5:213:GLN:NE2	2.49	0.45
1:v:504:ALA:HA	1:v:505:PRO:HA	1.78	0.45
1:z:229:VAL:HG13	1:z:670:TRP:HB2	1.97	0.45
1:z:441:THR:HG21	1:1:481:ASN:HB3	1.98	0.45
1:1:565:ILE:CD1	1:2:469:CYS:HB2	2.46	0.45
1:2:255:THR:HG23	1:2:374:ASN:O	2.16	0.45
1:4:255:THR:HG23	1:4:374:ASN:O	2.16	0.45
1:5:209:ASP:OD1	1:8:213:GLN:NE2	2.49	0.45
1:5:425:ARG:HB3	1:6:366:LEU:CD1	2.47	0.45
1:6:425:ARG:HB3	1:7:366:LEU:CD1	2.47	0.45
1:6:678:LYS:HD3	1:7:391:PHE:CE1	2.51	0.45
1:7:353:PHE:CE2	1:7:355:ALA:HB3	2.51	0.45
1:8:255:THR:HG23	1:8:374:ASN:O	2.17	0.45
1:A:213:GLN:NE2	1:E:209:ASP:OD1	2.49	0.45
1:C:209:ASP:OD1	1:D:213:GLN:NE2	2.49	0.45
1:E:327:THR:HG22	1:E:397:ARG:HG2	1.98	0.45
1:E:449:ARG:HD3	1:Q:532:ALA:O	2.17	0.45
1:G:213:GLN:NE2	1:W:209:ASP:OD1	2.49	0.45
1:H:425:ARG:HB3	1:W:366:LEU:CD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:255:THR:HG23	1:I:374:ASN:O	2.17	0.45
1:J:213:GLN:NE2	1:a:209:ASP:OD1	2.48	0.45
1:L:229:VAL:HG13	1:L:670:TRP:HB2	1.97	0.45
1:L:255:THR:HG23	1:L:374:ASN:O	2.16	0.45
1:O:329:GLN:HE21	1:O:635:LYS:HE2	1.81	0.45
1:R:435:LEU:HD22	1:S:522:LEU:HD12	1.98	0.45
1:R:465:PRO:HB3	1:S:496:LEU:HD12	1.97	0.45
1:V:353:PHE:CE2	1:V:355:ALA:HB3	2.51	0.45
1:W:327:THR:HG22	1:W:397:ARG:HG2	1.98	0.45
1:W:329:GLN:HE21	1:W:635:LYS:HE2	1.80	0.45
1:Y:327:THR:HG22	1:Y:397:ARG:HG2	1.98	0.45
1:Z:209:ASP:OD1	1:a:213:GLN:NE2	2.48	0.45
1:Z:327:THR:HG22	1:Z:397:ARG:HG2	1.98	0.45
1:f:229:VAL:HG13	1:f:670:TRP:HB2	1.97	0.45
1:g:209:ASP:OD1	1:k:213:GLN:NE2	2.49	0.45
1:j:449:ARG:HD3	1:k:532:ALA:O	2.17	0.45
1:n:255:THR:HG23	1:n:374:ASN:O	2.17	0.45
1:p:353:PHE:CE2	1:p:355:ALA:HB3	2.51	0.45
1:v:213:GLN:NE2	1:w:209:ASP:OD1	2.49	0.45
1:w:449:ARG:HD3	1:x:532:ALA:O	2.17	0.45
1:z:353:PHE:CE2	1:z:355:ALA:HB3	2.51	0.45
1:2:329:GLN:HE21	1:2:635:LYS:HE2	1.81	0.45
1:3:353:PHE:CE2	1:3:355:ALA:HB3	2.51	0.45
1:4:327:THR:HG22	1:4:397:ARG:HG2	1.98	0.45
1:6:449:ARG:HD3	1:7:532:ALA:O	2.17	0.45
1:B:353:PHE:CE2	1:B:355:ALA:HB3	2.51	0.45
1:B:565:ILE:CD1	1:J:469:CYS:HB2	2.47	0.45
1:B:586:VAL:HA	1:B:590:MET:CE	2.45	0.45
1:C:425:ARG:HB3	1:b:366:LEU:CD1	2.46	0.45
1:G:255:THR:HG23	1:G:374:ASN:O	2.16	0.45
1:H:329:GLN:HE21	1:H:635:LYS:HE2	1.81	0.45
1:K:366:LEU:CD1	1:8:425:ARG:HB3	2.46	0.45
1:K:391:PHE:CE1	1:8:678:LYS:HD3	2.51	0.45
1:K:504:ALA:HA	1:K:505:PRO:HA	1.78	0.45
1:L:353:PHE:CE2	1:L:355:ALA:HB3	2.51	0.45
1:M:366:LEU:CD1	1:b:425:ARG:HB3	2.46	0.45
1:N:586:VAL:HA	1:N:590:MET:CE	2.45	0.45
1:O:425:ARG:HB3	1:m:366:LEU:CD1	2.46	0.45
1:T:366:LEU:CD1	1:l:425:ARG:HB3	2.46	0.45
1:T:425:ARG:HB3	1:d:366:LEU:CD1	2.46	0.45
1:T:504:ALA:HA	1:T:505:PRO:HA	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:229:VAL:HG13	1:X:670:TRP:HB2	1.97	0.45
1:Z:353:PHE:CE2	1:Z:355:ALA:HB3	2.51	0.45
1:Z:678:LYS:HD3	1:4:391:PHE:CE1	2.51	0.45
1:a:329:GLN:HE21	1:a:635:LYS:HE2	1.81	0.45
1:c:366:LEU:CD1	1:p:425:ARG:HB3	2.46	0.45
1:c:586:VAL:HA	1:c:590:MET:CE	2.45	0.45
1:f:366:LEU:CD1	1:g:425:ARG:HB3	2.46	0.45
1:i:586:VAL:HA	1:i:590:MET:CE	2.45	0.45
1:m:425:ARG:HB3	1:n:366:LEU:CD1	2.46	0.45
1:o:229:VAL:HG13	1:o:670:TRP:HB2	1.97	0.45
1:q:435:LEU:HD22	1:r:522:LEU:HD12	1.98	0.45
1:u:255:THR:HG23	1:u:374:ASN:O	2.17	0.45
1:u:353:PHE:CE2	1:u:355:ALA:HB3	2.51	0.45
1:x:586:VAL:HA	1:x:590:MET:CE	2.45	0.45
1:1:353:PHE:CE2	1:1:355:ALA:HB3	2.51	0.45
1:3:532:ALA:O	1:4:449:ARG:HD3	2.17	0.45
1:5:678:LYS:HD3	1:6:391:PHE:CE1	2.51	0.45
1:6:327:THR:HG22	1:6:397:ARG:HG2	1.98	0.45
1:6:329:GLN:HE21	1:6:635:LYS:HE2	1.81	0.45
1:7:327:THR:HG22	1:7:397:ARG:HG2	1.98	0.45
1:7:329:GLN:HE21	1:7:635:LYS:HE2	1.81	0.45
1:8:329:GLN:HE21	1:8:635:LYS:HE2	1.81	0.45
1:E:425:ARG:HB3	1:Q:366:LEU:CD1	2.46	0.45
1:H:366:LEU:CD1	1:Y:425:ARG:HB3	2.47	0.45
1:H:678:LYS:HD3	1:W:391:PHE:CE1	2.51	0.45
1:I:353:PHE:CE2	1:I:355:ALA:HB3	2.51	0.45
1:K:449:ARG:HD3	1:a:532:ALA:O	2.17	0.45
1:M:353:PHE:CE2	1:M:355:ALA:HB3	2.51	0.45
1:R:327:THR:HG22	1:R:397:ARG:HG2	1.98	0.45
1:V:327:THR:HG22	1:V:397:ARG:HG2	1.98	0.45
1:V:425:ARG:HB3	1:e:366:LEU:CD1	2.46	0.45
1:Y:329:GLN:HE21	1:Y:635:LYS:HE2	1.81	0.45
1:Z:425:ARG:HB3	1:4:366:LEU:CD1	2.46	0.45
1:a:255:THR:HG23	1:a:374:ASN:O	2.17	0.45
1:e:586:VAL:HA	1:e:590:MET:CE	2.45	0.45
1:f:425:ARG:HB3	1:h:366:LEU:CD1	2.46	0.45
1:t:255:THR:HG23	1:t:374:ASN:O	2.16	0.45
1:w:327:THR:HG22	1:w:397:ARG:HG2	1.98	0.45
1:w:425:ARG:HB3	1:x:366:LEU:CD1	2.46	0.45
1:z:255:THR:HG23	1:z:374:ASN:O	2.17	0.45
1:1:586:VAL:HA	1:1:590:MET:CE	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:213:GLN:NE2	1:8:209:ASP:OD1	2.48	0.45
1:3:255:THR:HG23	1:3:374:ASN:O	2.17	0.45
1:4:276:HIS:HD2	1:4:352:PRO:HB3	1.79	0.45
1:5:366:LEU:CD1	1:7:425:ARG:HB3	2.47	0.45
1:8:327:THR:HG22	1:8:397:ARG:HG2	1.98	0.45
1:A:449:ARG:HD3	1:G:532:ALA:O	2.17	0.45
1:C:255:THR:HG23	1:C:374:ASN:O	2.16	0.45
1:C:353:PHE:CE2	1:C:355:ALA:HB3	2.51	0.45
1:D:391:PHE:CE1	1:P:678:LYS:HD3	2.51	0.45
1:H:391:PHE:CE1	1:Y:678:LYS:HD3	2.51	0.45
1:J:219:HIS:O	1:J:234:THR:HG23	2.17	0.45
1:P:255:THR:HG23	1:P:374:ASN:O	2.16	0.45
1:Q:504:ALA:HA	1:Q:505:PRO:HA	1.78	0.45
1:R:329:GLN:HE21	1:R:635:LYS:HE2	1.81	0.45
1:R:425:ARG:HB3	1:S:366:LEU:CD1	2.47	0.45
1:V:366:LEU:CD1	1:X:425:ARG:HB3	2.46	0.45
1:a:353:PHE:CE2	1:a:355:ALA:HB3	2.51	0.45
1:c:219:HIS:O	1:c:234:THR:HG23	2.17	0.45
1:f:209:ASP:OD1	1:z:213:GLN:NE2	2.50	0.45
1:h:255:THR:HG23	1:h:374:ASN:O	2.16	0.45
1:i:353:PHE:CE2	1:i:355:ALA:HB3	2.51	0.45
1:m:329:GLN:HE21	1:m:635:LYS:HE2	1.80	0.45
1:p:327:THR:HG22	1:p:397:ARG:HG2	1.98	0.45
1:q:327:THR:HG22	1:q:397:ARG:HG2	1.98	0.45
1:q:425:ARG:HB3	1:r:366:LEU:CD1	2.47	0.45
1:t:532:ALA:O	1:v:449:ARG:HD3	2.17	0.45
1:1:229:VAL:HG13	1:1:670:TRP:HB2	1.97	0.45
1:2:219:HIS:O	1:2:234:THR:HG23	2.17	0.45
1:3:329:GLN:HE21	1:3:635:LYS:HE2	1.81	0.45
1:4:504:ALA:HA	1:4:505:PRO:HA	1.78	0.45
1:5:329:GLN:HE21	1:5:635:LYS:HE2	1.81	0.45
1:5:449:ARG:HD3	1:6:532:ALA:O	2.17	0.45
1:5:532:ALA:O	1:7:449:ARG:HD3	2.16	0.45
1:A:276:HIS:HD2	1:A:352:PRO:HB3	1.78	0.45
1:B:229:VAL:HG13	1:B:670:TRP:HB2	1.97	0.45
1:B:347:GLU:OE2	1:L:450:LYS:NZ	2.25	0.45
1:H:449:ARG:HD3	1:W:532:ALA:O	2.17	0.45
1:H:532:ALA:O	1:Y:449:ARG:HD3	2.16	0.45
1:N:425:ARG:HB3	1:P:366:LEU:CD1	2.47	0.45
1:Q:586:VAL:HA	1:Q:590:MET:CE	2.45	0.45
1:V:586:VAL:HA	1:V:590:MET:CE	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:532:ALA:O	1:3:449:ARG:HD3	2.17	0.45
1:e:219:HIS:O	1:e:234:THR:HG23	2.17	0.45
1:g:255:THR:HG23	1:g:374:ASN:O	2.16	0.45
1:g:353:PHE:CE2	1:g:355:ALA:HB3	2.51	0.45
1:h:353:PHE:CE2	1:h:355:ALA:HB3	2.51	0.45
1:i:425:ARG:HB3	1:j:366:LEU:CD1	2.47	0.45
1:j:678:LYS:HD3	1:k:391:PHE:CE1	2.51	0.45
1:r:255:THR:HG23	1:r:374:ASN:O	2.16	0.45
1:z:366:LEU:CD1	1:2:425:ARG:HB3	2.46	0.45
1:5:255:THR:HG23	1:5:374:ASN:O	2.16	0.45
1:8:353:PHE:CE2	1:8:355:ALA:HB3	2.51	0.45
1:A:353:PHE:CE2	1:A:355:ALA:HB3	2.51	0.45
1:A:679:ARG:HH21	1:A:681:ASN:CG	2.25	0.45
1:C:679:ARG:HH21	1:C:681:ASN:CG	2.25	0.45
1:F:219:HIS:O	1:F:234:THR:HG23	2.17	0.45
1:F:586:VAL:HA	1:F:590:MET:CE	2.45	0.45
1:H:255:THR:HG23	1:H:374:ASN:O	2.16	0.45
1:K:219:HIS:O	1:K:234:THR:HG23	2.17	0.45
1:M:219:HIS:O	1:M:234:THR:HG23	2.17	0.45
1:M:255:THR:HG23	1:M:374:ASN:O	2.16	0.45
1:M:532:ALA:O	1:b:449:ARG:HD3	2.17	0.45
1:M:586:VAL:HA	1:M:590:MET:CE	2.45	0.45
1:N:353:PHE:CE2	1:N:355:ALA:HB3	2.51	0.45
1:P:504:ALA:HA	1:P:505:PRO:HA	1.78	0.45
1:S:255:THR:HG23	1:S:374:ASN:O	2.16	0.45
1:S:449:ARG:HD3	1:U:532:ALA:O	2.17	0.45
1:T:329:GLN:HE21	1:T:635:LYS:HE2	1.81	0.45
1:X:366:LEU:CD1	1:e:425:ARG:HB3	2.46	0.45
1:a:449:ARG:HD3	1:8:532:ALA:O	2.17	0.45
1:f:449:ARG:HD3	1:h:532:ALA:O	2.17	0.45
1:g:679:ARG:HH21	1:g:681:ASN:CG	2.25	0.45
1:j:255:THR:HG23	1:j:374:ASN:O	2.16	0.45
1:l:255:THR:HG23	1:l:374:ASN:O	2.16	0.45
1:m:504:ALA:HA	1:m:505:PRO:HA	1.78	0.45
1:o:425:ARG:HB3	1:p:366:LEU:CD1	2.46	0.45
1:q:329:GLN:HE21	1:q:635:LYS:HE2	1.81	0.45
1:u:425:ARG:HB3	1:v:366:LEU:CD1	2.46	0.45
1:v:353:PHE:CE2	1:v:355:ALA:HB3	2.51	0.45
1:x:219:HIS:O	1:x:234:THR:HG23	2.17	0.45
1:x:504:ALA:HA	1:x:505:PRO:HA	1.78	0.45
1:y:219:HIS:O	1:y:234:THR:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:391:PHE:CE1	1:7:678:LYS:HD3	2.51	0.45
1:A:366:LEU:CD1	1:I:425:ARG:HB3	2.46	0.45
1:C:449:ARG:HD3	1:b:532:ALA:O	2.17	0.45
1:G:679:ARG:HH21	1:G:681:ASN:CG	2.25	0.45
1:K:347:GLU:OE2	1:8:450:LYS:NZ	2.25	0.45
1:L:219:HIS:O	1:L:234:THR:HG23	2.17	0.45
1:M:347:GLU:OE2	1:b:450:LYS:NZ	2.26	0.45
1:Q:219:HIS:O	1:Q:234:THR:HG23	2.17	0.45
1:T:679:ARG:HH21	1:T:681:ASN:CG	2.25	0.45
1:W:255:THR:HG23	1:W:374:ASN:O	2.16	0.45
1:X:219:HIS:O	1:X:234:THR:HG23	2.17	0.45
1:c:425:ARG:HB3	1:o:366:LEU:CD1	2.46	0.45
1:d:219:HIS:O	1:d:234:THR:HG23	2.17	0.45
1:h:219:HIS:O	1:h:234:THR:HG23	2.17	0.45
1:h:586:VAL:HA	1:h:590:MET:CE	2.45	0.45
1:o:219:HIS:O	1:o:234:THR:HG23	2.17	0.45
1:o:329:GLN:HE21	1:o:635:LYS:HE2	1.81	0.45
1:p:255:THR:HG23	1:p:374:ASN:O	2.16	0.45
1:p:586:VAL:HA	1:p:590:MET:CE	2.45	0.45
1:v:276:HIS:HD2	1:v:352:PRO:HB3	1.78	0.45
1:v:679:ARG:HH21	1:v:681:ASN:CG	2.25	0.45
1:w:353:PHE:CE2	1:w:355:ALA:HB3	2.51	0.45
1:y:586:VAL:HA	1:y:590:MET:CE	2.45	0.45
1:4:219:HIS:O	1:4:234:THR:HG23	2.17	0.45
1:6:255:THR:HG23	1:6:374:ASN:O	2.16	0.45
1:B:366:LEU:CD1	1:L:425:ARG:HB3	2.47	0.44
1:E:353:PHE:CE2	1:E:355:ALA:HB3	2.51	0.44
1:J:327:THR:HG22	1:J:397:ARG:HG2	1.98	0.44
1:N:255:THR:HG23	1:N:374:ASN:O	2.16	0.44
1:O:209:ASP:OD1	1:d:213:GLN:NE2	2.49	0.44
1:O:255:THR:HG23	1:O:374:ASN:O	2.16	0.44
1:R:219:HIS:O	1:R:234:THR:HG23	2.17	0.44
1:R:565:ILE:CD1	1:S:469:CYS:HB2	2.47	0.44
1:V:219:HIS:O	1:V:234:THR:HG23	2.17	0.44
1:V:449:ARG:HD3	1:e:532:ALA:O	2.17	0.44
1:V:679:ARG:HH21	1:V:681:ASN:CG	2.25	0.44
1:X:255:THR:HG23	1:X:374:ASN:O	2.16	0.44
1:X:329:GLN:HE21	1:X:635:LYS:HE2	1.81	0.44
1:X:532:ALA:O	1:e:449:ARG:HD3	2.17	0.44
1:a:679:ARG:HH21	1:a:681:ASN:CG	2.25	0.44
1:c:255:THR:HG23	1:c:374:ASN:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:532:ALA:O	1:p:449:ARG:HD3	2.17	0.44
1:d:327:THR:HG22	1:d:397:ARG:HG2	1.98	0.44
1:f:532:ALA:O	1:g:449:ARG:HD3	2.17	0.44
1:k:255:THR:HG23	1:k:374:ASN:O	2.16	0.44
1:m:679:ARG:HH21	1:m:681:ASN:CG	2.25	0.44
1:n:219:HIS:O	1:n:234:THR:HG23	2.17	0.44
1:n:327:THR:HG22	1:n:397:ARG:HG2	1.98	0.44
1:p:219:HIS:O	1:p:234:THR:HG23	2.17	0.44
1:p:679:ARG:HH21	1:p:681:ASN:CG	2.25	0.44
1:q:565:ILE:CD1	1:r:469:CYS:HB2	2.47	0.44
1:r:449:ARG:HD3	1:s:532:ALA:O	2.17	0.44
1:z:219:HIS:O	1:z:234:THR:HG23	2.17	0.44
1:A:255:THR:HG23	1:A:374:ASN:O	2.16	0.44
1:B:441:THR:HG21	1:J:481:ASN:HB3	1.99	0.44
1:C:219:HIS:O	1:C:234:THR:HG23	2.17	0.44
1:E:586:VAL:HA	1:E:590:MET:CE	2.45	0.44
1:G:219:HIS:O	1:G:234:THR:HG23	2.17	0.44
1:I:327:THR:HG22	1:I:397:ARG:HG2	1.98	0.44
1:K:209:ASP:OD1	1:7:213:GLN:NE2	2.49	0.44
1:P:276:HIS:HD2	1:P:352:PRO:HB3	1.79	0.44
1:Q:255:THR:HG23	1:Q:374:ASN:O	2.17	0.44
1:T:219:HIS:O	1:T:234:THR:HG23	2.17	0.44
1:U:276:HIS:HD2	1:U:352:PRO:HB3	1.78	0.44
1:V:255:THR:HG23	1:V:374:ASN:O	2.16	0.44
1:V:532:ALA:O	1:X:449:ARG:HD3	2.17	0.44
1:c:449:ARG:HD3	1:o:532:ALA:O	2.17	0.44
1:e:255:THR:HG23	1:e:374:ASN:O	2.17	0.44
1:f:329:GLN:HE21	1:f:635:LYS:HE2	1.81	0.44
1:j:219:HIS:O	1:j:234:THR:HG23	2.17	0.44
1:l:209:ASP:OD1	1:n:213:GLN:NE2	2.48	0.44
1:q:219:HIS:O	1:q:234:THR:HG23	2.17	0.44
1:q:431:VAL:O	1:r:346:HIS:HD2	2.01	0.44
1:w:586:VAL:HA	1:w:590:MET:CE	2.45	0.44
1:x:255:THR:HG23	1:x:374:ASN:O	2.17	0.44
1:z:431:VAL:O	1:1:346:HIS:HD2	2.00	0.44
1:z:465:PRO:HB3	1:1:496:LEU:HD12	1.99	0.44
1:2:327:THR:HG22	1:2:397:ARG:HG2	1.98	0.44
1:3:679:ARG:HH21	1:3:681:ASN:CG	2.25	0.44
1:7:219:HIS:O	1:7:234:THR:HG23	2.17	0.44
1:D:255:THR:HG23	1:D:374:ASN:O	2.16	0.44
1:D:679:ARG:HH21	1:D:681:ASN:CG	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:327:THR:HG22	1:H:397:ARG:HG2	1.98	0.44
1:J:425:ARG:HB3	1:L:366:LEU:CD1	2.46	0.44
1:J:449:ARG:HD3	1:L:532:ALA:O	2.17	0.44
1:O:219:HIS:O	1:O:234:THR:HG23	2.17	0.44
1:P:219:HIS:O	1:P:234:THR:HG23	2.17	0.44
1:R:431:VAL:O	1:S:346:HIS:HD2	2.01	0.44
1:Y:213:GLN:NE2	1:4:209:ASP:OD1	2.49	0.44
1:b:327:THR:HG22	1:b:397:ARG:HG2	1.98	0.44
1:b:329:GLN:HE21	1:b:635:LYS:HE2	1.81	0.44
1:b:679:ARG:HH21	1:b:681:ASN:CG	2.25	0.44
1:f:679:ARG:HH21	1:f:681:ASN:CG	2.25	0.44
1:g:219:HIS:O	1:g:234:THR:HG23	2.17	0.44
1:i:255:THR:HG23	1:i:374:ASN:O	2.16	0.44
1:k:679:ARG:HH21	1:k:681:ASN:CG	2.25	0.44
1:m:213:GLN:NE2	1:s:209:ASP:OD1	2.49	0.44
1:m:219:HIS:O	1:m:234:THR:HG23	2.17	0.44
1:o:255:THR:HG23	1:o:374:ASN:O	2.16	0.44
1:o:449:ARG:HD3	1:p:532:ALA:O	2.17	0.44
1:t:219:HIS:O	1:t:234:THR:HG23	2.17	0.44
1:u:327:THR:HG22	1:u:397:ARG:HG2	1.98	0.44
1:v:327:THR:HG22	1:v:397:ARG:HG2	1.98	0.44
1:x:370:GLY:HA2	1:x:371:PRO:HD3	1.81	0.44
1:z:445:ASN:HB2	1:1:536:ALA:C	2.42	0.44
1:3:219:HIS:O	1:3:234:THR:HG23	2.17	0.44
1:5:327:THR:HG22	1:5:397:ARG:HG2	1.98	0.44
1:A:327:THR:HG22	1:A:397:ARG:HG2	1.98	0.44
1:T:213:GLN:NE2	1:U:209:ASP:OD1	2.49	0.44
1:Y:219:HIS:O	1:Y:234:THR:HG23	2.17	0.44
1:Y:255:THR:HG23	1:Y:374:ASN:O	2.16	0.44
1:Z:450:LYS:NZ	1:4:347:GLU:OE2	2.25	0.44
1:c:353:PHE:CE2	1:c:355:ALA:HB3	2.51	0.44
1:e:353:PHE:CE2	1:e:355:ALA:HB3	2.51	0.44
1:f:219:HIS:O	1:f:234:THR:HG23	2.17	0.44
1:f:255:THR:HG23	1:f:374:ASN:O	2.17	0.44
1:f:327:THR:HG22	1:f:397:ARG:HG2	1.98	0.44
1:j:213:GLN:NE2	1:x:209:ASP:OD1	2.49	0.44
1:l:219:HIS:O	1:l:234:THR:HG23	2.17	0.44
1:q:678:LYS:HD3	1:r:391:PHE:CE1	2.52	0.44
1:v:255:THR:HG23	1:v:374:ASN:O	2.16	0.44
1:y:327:THR:HG22	1:y:397:ARG:HG2	1.98	0.44
1:6:219:HIS:O	1:6:234:THR:HG23	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:679:ARG:HH21	1:8:681:ASN:CG	2.25	0.44
1:C:494:TRP:CD1	1:C:503:TYR:HD1	2.36	0.44
1:D:242:TYR:OH	1:D:360:LEU:O	2.36	0.44
1:F:327:THR:HG22	1:F:397:ARG:HG2	1.98	0.44
1:H:586:VAL:HA	1:H:590:MET:CE	2.45	0.44
1:N:494:TRP:CD1	1:N:503:TYR:HD1	2.36	0.44
1:P:213:GLN:NE2	1:Q:209:ASP:OD1	2.49	0.44
1:Q:494:TRP:CD1	1:Q:503:TYR:HD1	2.36	0.44
1:R:391:PHE:CE1	1:U:678:LYS:HD3	2.53	0.44
1:R:678:LYS:HD3	1:S:391:PHE:CE1	2.52	0.44
1:R:679:ARG:HH21	1:R:681:ASN:CG	2.25	0.44
1:S:494:TRP:CD1	1:S:503:TYR:HD1	2.36	0.44
1:Z:219:HIS:O	1:Z:234:THR:HG23	2.17	0.44
1:Z:679:ARG:HH21	1:Z:681:ASN:CG	2.25	0.44
1:a:219:HIS:O	1:a:234:THR:HG23	2.17	0.44
1:b:255:THR:HG23	1:b:374:ASN:O	2.17	0.44
1:r:494:TRP:CD1	1:r:503:TYR:HD1	2.36	0.44
1:s:276:HIS:HD2	1:s:352:PRO:HB3	1.78	0.44
1:t:425:ARG:HB3	1:u:366:LEU:CD1	2.46	0.44
1:x:494:TRP:CD1	1:x:503:TYR:HD1	2.36	0.44
1:1:255:THR:HG23	1:1:374:ASN:O	2.16	0.44
1:1:441:THR:HG21	1:2:481:ASN:HB3	1.99	0.44
1:5:586:VAL:HA	1:5:590:MET:CE	2.45	0.44
1:6:586:VAL:HA	1:6:590:MET:CE	2.45	0.44
1:7:255:THR:HG23	1:7:374:ASN:O	2.16	0.44
1:B:255:THR:HG23	1:B:374:ASN:O	2.16	0.44
1:B:678:LYS:HD3	1:J:391:PHE:CE1	2.52	0.44
1:B:679:ARG:HH21	1:B:681:ASN:CG	2.25	0.44
1:G:425:ARG:HB3	1:I:366:LEU:CD1	2.46	0.44
1:H:679:ARG:HH21	1:H:681:ASN:CG	2.25	0.44
1:M:679:ARG:HH21	1:M:681:ASN:CG	2.25	0.44
1:N:679:ARG:HH21	1:N:681:ASN:CG	2.25	0.44
1:O:679:ARG:HH21	1:O:681:ASN:CG	2.25	0.44
1:Q:679:ARG:HH21	1:Q:681:ASN:CG	2.25	0.44
1:T:449:ARG:HD3	1:d:532:ALA:O	2.17	0.44
1:V:494:TRP:CD1	1:V:503:TYR:HD1	2.36	0.44
1:W:219:HIS:O	1:W:234:THR:HG23	2.17	0.44
1:Z:449:ARG:HD3	1:4:532:ALA:O	2.17	0.44
1:b:219:HIS:O	1:b:234:THR:HG23	2.17	0.44
1:g:494:TRP:CD1	1:g:503:TYR:HD1	2.36	0.44
1:i:494:TRP:CD1	1:i:503:TYR:HD1	2.36	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:679:ARG:HH21	1:i:681:ASN:CG	2.25	0.44
1:j:276:HIS:HD2	1:j:352:PRO:HB3	1.79	0.44
1:j:504:ALA:HA	1:j:505:PRO:HA	1.78	0.44
1:p:494:TRP:CD1	1:p:503:TYR:HD1	2.36	0.44
1:q:391:PHE:CE1	1:s:678:LYS:HD3	2.53	0.44
1:u:494:TRP:CD1	1:u:503:TYR:HD1	2.36	0.44
1:1:219:HIS:O	1:1:234:THR:HG23	2.17	0.44
1:1:678:LYS:HD3	1:2:391:PHE:CE1	2.52	0.44
1:1:679:ARG:HH21	1:1:681:ASN:CG	2.25	0.44
1:5:679:ARG:HH21	1:5:681:ASN:CG	2.25	0.44
1:8:219:HIS:O	1:8:234:THR:HG23	2.17	0.44
1:B:219:HIS:O	1:B:234:THR:HG23	2.17	0.44
1:E:532:ALA:O	1:F:449:ARG:HD3	2.17	0.44
1:F:494:TRP:CD1	1:F:503:TYR:HD1	2.36	0.44
1:I:494:TRP:CD1	1:I:503:TYR:HD1	2.36	0.44
1:J:679:ARG:HH21	1:J:681:ASN:CG	2.25	0.44
1:K:532:ALA:O	1:8:449:ARG:HD3	2.17	0.44
1:N:219:HIS:O	1:N:234:THR:HG23	2.17	0.44
1:U:219:HIS:O	1:U:234:THR:HG23	2.17	0.44
1:W:586:VAL:HA	1:W:590:MET:CE	2.45	0.44
1:a:494:TRP:CD1	1:a:503:TYR:HD1	2.36	0.44
1:h:679:ARG:HH21	1:h:681:ASN:CG	2.25	0.44
1:i:327:THR:HG22	1:i:397:ARG:HG2	1.98	0.44
1:k:242:TYR:OH	1:k:360:LEU:O	2.36	0.44
1:m:449:ARG:HD3	1:n:532:ALA:O	2.17	0.44
1:q:679:ARG:HH21	1:q:681:ASN:CG	2.25	0.44
1:r:678:LYS:HD3	1:s:391:PHE:CE1	2.51	0.44
1:s:219:HIS:O	1:s:234:THR:HG23	2.17	0.44
1:v:209:ASP:OD1	1:1:213:GLN:NE2	2.50	0.44
1:x:679:ARG:HH21	1:x:681:ASN:CG	2.25	0.44
1:z:366:LEU:HD11	1:2:425:ARG:HB3	2.00	0.44
1:1:431:VAL:O	1:2:346:HIS:HD2	2.01	0.44
1:1:435:LEU:HD22	1:2:522:LEU:HD12	1.98	0.44
1:2:276:HIS:HD2	1:2:352:PRO:HB3	1.79	0.44
1:3:494:TRP:CD1	1:3:503:TYR:HD1	2.36	0.44
1:5:219:HIS:O	1:5:234:THR:HG23	2.17	0.44
1:B:435:LEU:HD22	1:J:522:LEU:HD12	1.98	0.44
1:G:255:THR:HG22	1:G:376:ASN:ND2	2.33	0.44
1:G:494:TRP:CD1	1:G:503:TYR:HD1	2.36	0.44
1:N:327:THR:HG22	1:N:397:ARG:HG2	1.98	0.44
1:Q:370:GLY:HA2	1:Q:371:PRO:HD3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:678:LYS:HD3	1:U:391:PHE:CE1	2.51	0.44
1:Z:494:TRP:CD1	1:Z:503:TYR:HD1	2.36	0.44
1:g:532:ALA:O	1:h:449:ARG:HD3	2.17	0.44
1:i:219:HIS:O	1:i:234:THR:HG23	2.17	0.44
1:l:679:ARG:HH21	1:l:681:ASN:CG	2.25	0.44
1:r:219:HIS:O	1:r:234:THR:HG23	2.17	0.44
1:t:255:THR:HG22	1:t:376:ASN:ND2	2.33	0.44
1:t:494:TRP:CD1	1:t:503:TYR:HD1	2.36	0.44
1:w:532:ALA:O	1:y:449:ARG:HD3	2.17	0.44
1:y:494:TRP:CD1	1:y:503:TYR:HD1	2.36	0.44
1:z:679:ARG:HH21	1:z:681:ASN:CG	2.25	0.44
1:2:679:ARG:HH21	1:2:681:ASN:CG	2.25	0.44
1:3:276:HIS:HD2	1:3:352:PRO:HB3	1.79	0.44
1:8:494:TRP:CD1	1:8:503:TYR:HD1	2.36	0.44
1:A:532:ALA:O	1:I:449:ARG:HD3	2.17	0.44
1:B:242:TYR:OH	1:B:360:LEU:O	2.36	0.44
1:B:431:VAL:O	1:J:346:HIS:HD2	2.01	0.44
1:C:532:ALA:O	1:M:449:ARG:HD3	2.17	0.44
1:E:494:TRP:CD1	1:E:503:TYR:HD1	2.36	0.44
1:G:449:ARG:HD3	1:I:532:ALA:O	2.17	0.44
1:H:219:HIS:O	1:H:234:THR:HG23	2.17	0.44
1:J:276:HIS:HD2	1:J:352:PRO:HB3	1.78	0.44
1:L:679:ARG:HH21	1:L:681:ASN:CG	2.25	0.44
1:M:259:VAL:HB	1:M:377:ASN:OD1	2.18	0.44
1:O:327:THR:HG22	1:O:397:ARG:HG2	1.98	0.44
1:S:219:HIS:O	1:S:234:THR:HG23	2.17	0.44
1:S:327:THR:HG22	1:S:397:ARG:HG2	1.98	0.44
1:S:462:ASN:ND2	1:U:343:GLY:O	2.51	0.44
1:T:494:TRP:CD1	1:T:503:TYR:HD1	2.36	0.44
1:c:255:THR:HG22	1:c:376:ASN:ND2	2.33	0.44
1:e:255:THR:HG22	1:e:376:ASN:ND2	2.33	0.44
1:e:679:ARG:HH21	1:e:681:ASN:CG	2.25	0.44
1:j:679:ARG:HH21	1:j:681:ASN:CG	2.25	0.44
1:k:494:TRP:CD1	1:k:503:TYR:HD1	2.36	0.44
1:p:255:THR:HG22	1:p:376:ASN:ND2	2.33	0.44
1:r:327:THR:HG22	1:r:397:ARG:HG2	1.98	0.44
1:r:462:ASN:ND2	1:s:343:GLY:O	2.51	0.44
1:w:494:TRP:CD1	1:w:503:TYR:HD1	2.36	0.44
1:x:259:VAL:HB	1:x:377:ASN:OD1	2.18	0.44
1:x:449:ARG:HD3	1:y:532:ALA:O	2.17	0.44
1:y:679:ARG:HH21	1:y:681:ASN:CG	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:259:VAL:HB	1:2:377:ASN:OD1	2.18	0.44
1:7:255:THR:HG22	1:7:376:ASN:ND2	2.33	0.44
1:A:209:ASP:OD1	1:B:213:GLN:NE2	2.50	0.43
1:A:219:HIS:O	1:A:234:THR:HG23	2.17	0.43
1:A:259:VAL:HB	1:A:377:ASN:OD1	2.18	0.43
1:B:327:THR:HG22	1:B:397:ARG:HG2	1.98	0.43
1:B:391:PHE:CE1	1:L:678:LYS:HD3	2.53	0.43
1:D:435:LEU:HD22	1:N:522:LEU:HD12	2.00	0.43
1:D:494:TRP:CD1	1:D:503:TYR:HD1	2.36	0.43
1:F:679:ARG:HH21	1:F:681:ASN:CG	2.25	0.43
1:J:259:VAL:HB	1:J:377:ASN:OD1	2.18	0.43
1:P:679:ARG:HH21	1:P:681:ASN:CG	2.25	0.43
1:Q:255:THR:HG22	1:Q:376:ASN:ND2	2.33	0.43
1:Q:259:VAL:HB	1:Q:377:ASN:OD1	2.18	0.43
1:T:532:ALA:O	1:l:449:ARG:HD3	2.17	0.43
1:V:255:THR:HG22	1:V:376:ASN:ND2	2.33	0.43
1:W:255:THR:HG22	1:W:376:ASN:ND2	2.33	0.43
1:X:343:GLY:O	1:e:462:ASN:ND2	2.51	0.43
1:Y:255:THR:HG22	1:Y:376:ASN:ND2	2.33	0.43
1:Z:259:VAL:HB	1:Z:377:ASN:OD1	2.18	0.43
1:Z:504:ALA:HA	1:Z:505:PRO:HA	1.78	0.43
1:a:462:ASN:ND2	1:8:343:GLY:O	2.51	0.43
1:c:462:ASN:ND2	1:o:343:GLY:O	2.51	0.43
1:c:504:ALA:HA	1:c:505:PRO:HA	1.78	0.43
1:d:449:ARG:HD3	1:l:532:ALA:O	2.17	0.43
1:d:679:ARG:HH21	1:d:681:ASN:CG	2.25	0.43
1:h:259:VAL:HB	1:h:377:ASN:OD1	2.18	0.43
1:i:259:VAL:HB	1:i:377:ASN:OD1	2.18	0.43
1:i:522:LEU:HD12	1:k:435:LEU:HD22	2.00	0.43
1:l:255:THR:HG22	1:l:376:ASN:ND2	2.33	0.43
1:m:494:TRP:CD1	1:m:503:TYR:HD1	2.36	0.43
1:n:679:ARG:HH21	1:n:681:ASN:CG	2.25	0.43
1:o:259:VAL:HB	1:o:377:ASN:OD1	2.18	0.43
1:q:366:LEU:CD1	1:s:425:ARG:HB3	2.47	0.43
1:t:343:GLY:O	1:v:462:ASN:ND2	2.51	0.43
1:u:449:ARG:HD3	1:v:532:ALA:O	2.17	0.43
1:v:259:VAL:HB	1:v:377:ASN:OD1	2.18	0.43
1:z:255:THR:HG22	1:z:376:ASN:ND2	2.33	0.43
1:1:242:TYR:OH	1:1:360:LEU:O	2.36	0.43
1:6:255:THR:HG22	1:6:376:ASN:ND2	2.33	0.43
1:7:494:TRP:CD1	1:7:503:TYR:HD1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:462:ASN:ND2	1:G:343:GLY:O	2.51	0.43
1:C:255:THR:HG22	1:C:376:ASN:ND2	2.33	0.43
1:F:532:ALA:O	1:Q:449:ARG:HD3	2.17	0.43
1:I:219:HIS:O	1:I:234:THR:HG23	2.17	0.43
1:L:255:THR:HG22	1:L:376:ASN:ND2	2.33	0.43
1:L:494:TRP:CD1	1:L:503:TYR:HD1	2.36	0.43
1:N:259:VAL:HB	1:N:377:ASN:OD1	2.18	0.43
1:O:255:THR:HG22	1:O:376:ASN:ND2	2.33	0.43
1:R:366:LEU:CD1	1:U:425:ARG:HB3	2.47	0.43
1:R:441:THR:HG21	1:S:481:ASN:HB3	1.99	0.43
1:S:255:THR:HG22	1:S:376:ASN:ND2	2.33	0.43
1:U:494:TRP:CD1	1:U:503:TYR:HD1	2.36	0.43
1:W:679:ARG:HH21	1:W:681:ASN:CG	2.25	0.43
1:X:259:VAL:HB	1:X:377:ASN:OD1	2.18	0.43
1:Y:494:TRP:CD1	1:Y:503:TYR:HD1	2.36	0.43
1:Y:679:ARG:HH21	1:Y:681:ASN:CG	2.25	0.43
1:Z:343:GLY:O	1:3:462:ASN:ND2	2.51	0.43
1:a:276:HIS:HD2	1:a:352:PRO:HB3	1.79	0.43
1:c:679:ARG:HH21	1:c:681:ASN:CG	2.25	0.43
1:g:255:THR:HG22	1:g:376:ASN:ND2	2.33	0.43
1:r:255:THR:HG22	1:r:376:ASN:ND2	2.33	0.43
1:t:449:ARG:HD3	1:u:532:ALA:O	2.17	0.43
1:u:219:HIS:O	1:u:234:THR:HG23	2.17	0.43
1:v:219:HIS:O	1:v:234:THR:HG23	2.17	0.43
1:x:255:THR:HG22	1:x:376:ASN:ND2	2.33	0.43
1:z:494:TRP:CD1	1:z:503:TYR:HD1	2.36	0.43
1:1:327:THR:HG22	1:1:397:ARG:HG2	1.98	0.43
1:1:425:ARG:HB3	1:2:366:LEU:CD1	2.47	0.43
1:4:255:THR:HG22	1:4:376:ASN:ND2	2.33	0.43
1:8:259:VAL:HB	1:8:377:ASN:OD1	2.18	0.43
1:B:425:ARG:HB3	1:J:366:LEU:CD1	2.47	0.43
1:D:259:VAL:HB	1:D:377:ASN:OD1	2.18	0.43
1:I:259:VAL:HB	1:I:377:ASN:OD1	2.18	0.43
1:I:679:ARG:HH21	1:I:681:ASN:CG	2.25	0.43
1:J:494:TRP:CD1	1:J:503:TYR:HD1	2.36	0.43
1:J:586:VAL:HA	1:J:590:MET:CE	2.45	0.43
1:K:255:THR:HG22	1:K:376:ASN:ND2	2.33	0.43
1:K:259:VAL:HB	1:K:377:ASN:OD1	2.18	0.43
1:O:449:ARG:HD3	1:m:532:ALA:O	2.17	0.43
1:O:532:ALA:O	1:n:449:ARG:HD3	2.17	0.43
1:R:255:THR:HG22	1:R:376:ASN:ND2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:462:ASN:ND2	1:Y:343:GLY:O	2.52	0.43
1:b:494:TRP:CD1	1:b:503:TYR:HD1	2.36	0.43
1:c:494:TRP:CD1	1:c:503:TYR:HD1	2.36	0.43
1:f:494:TRP:CD1	1:f:503:TYR:HD1	2.36	0.43
1:h:255:THR:HG22	1:h:376:ASN:ND2	2.33	0.43
1:l:327:THR:HG22	1:l:397:ARG:HG2	1.98	0.43
1:m:276:HIS:HD2	1:m:352:PRO:HB3	1.78	0.43
1:s:494:TRP:CD1	1:s:503:TYR:HD1	2.36	0.43
1:u:679:ARG:HH21	1:u:681:ASN:CG	2.25	0.43
1:w:219:HIS:O	1:w:234:THR:HG23	2.17	0.43
1:4:259:VAL:HB	1:4:377:ASN:OD1	2.18	0.43
1:5:462:ASN:ND2	1:6:343:GLY:O	2.52	0.43
1:6:462:ASN:ND2	1:7:343:GLY:O	2.52	0.43
1:6:679:ARG:HH21	1:6:681:ASN:CG	2.25	0.43
1:8:255:THR:HG22	1:8:376:ASN:ND2	2.33	0.43
1:B:494:TRP:CD1	1:B:503:TYR:HD1	2.36	0.43
1:H:462:ASN:ND2	1:W:343:GLY:O	2.52	0.43
1:H:536:ALA:O	1:Y:445:ASN:HB2	2.19	0.43
1:I:255:THR:HG22	1:I:376:ASN:ND2	2.33	0.43
1:K:522:LEU:HD12	1:8:435:LEU:HD22	2.01	0.43
1:N:435:LEU:HD22	1:P:522:LEU:HD12	2.01	0.43
1:Q:242:TYR:OH	1:Q:360:LEU:O	2.36	0.43
1:W:494:TRP:CD1	1:W:503:TYR:HD1	2.36	0.43
1:X:679:ARG:HH21	1:X:681:ASN:CG	2.25	0.43
1:Z:255:THR:HG22	1:Z:376:ASN:ND2	2.33	0.43
1:Z:435:LEU:HD22	1:4:522:LEU:HD12	2.01	0.43
1:d:255:THR:HG22	1:d:376:ASN:ND2	2.33	0.43
1:e:494:TRP:CD1	1:e:503:TYR:HD1	2.36	0.43
1:k:259:VAL:HB	1:k:377:ASN:OD1	2.18	0.43
1:q:255:THR:HG22	1:q:376:ASN:ND2	2.33	0.43
1:q:441:THR:HG21	1:r:481:ASN:HB3	1.99	0.43
1:u:255:THR:HG22	1:u:376:ASN:ND2	2.33	0.43
1:1:494:TRP:CD1	1:1:503:TYR:HD1	2.36	0.43
1:2:494:TRP:CD1	1:2:503:TYR:HD1	2.36	0.43
1:4:494:TRP:CD1	1:4:503:TYR:HD1	2.36	0.43
1:5:255:THR:HG22	1:5:376:ASN:ND2	2.33	0.43
1:5:259:VAL:HB	1:5:377:ASN:OD1	2.18	0.43
1:B:536:ALA:O	1:L:445:ASN:HB2	2.19	0.43
1:D:219:HIS:O	1:D:234:THR:HG23	2.17	0.43
1:D:522:LEU:HD12	1:P:435:LEU:HD22	2.01	0.43
1:E:219:HIS:O	1:E:234:THR:HG23	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:255:THR:HG22	1:E:376:ASN:ND2	2.33	0.43
1:H:255:THR:HG22	1:H:376:ASN:ND2	2.33	0.43
1:H:445:ASN:HB2	1:W:536:ALA:O	2.19	0.43
1:M:255:THR:HG22	1:M:376:ASN:ND2	2.33	0.43
1:P:494:TRP:CD1	1:P:503:TYR:HD1	2.36	0.43
1:U:259:VAL:HB	1:U:377:ASN:OD1	2.18	0.43
1:i:435:LEU:HD22	1:j:522:LEU:HD12	2.01	0.43
1:j:435:LEU:HD22	1:k:522:LEU:HD12	2.01	0.43
1:k:219:HIS:O	1:k:234:THR:HG23	2.17	0.43
1:n:255:THR:HG22	1:n:376:ASN:ND2	2.33	0.43
1:q:213:GLN:NE2	1:y:209:ASP:OD1	2.50	0.43
1:r:276:HIS:HD2	1:r:352:PRO:HB3	1.78	0.43
1:u:259:VAL:HB	1:u:377:ASN:OD1	2.18	0.43
1:x:462:ASN:ND2	1:y:343:GLY:O	2.52	0.43
1:z:536:ALA:O	1:2:445:ASN:HB2	2.18	0.43
1:z:678:LYS:HD3	1:1:391:PHE:CE1	2.53	0.43
1:2:586:VAL:HA	1:2:590:MET:CE	2.45	0.43
1:5:445:ASN:HB2	1:6:536:ALA:O	2.19	0.43
1:5:494:TRP:CD1	1:5:503:TYR:HD1	2.36	0.43
1:5:536:ALA:O	1:7:445:ASN:HB2	2.19	0.43
1:6:494:TRP:CD1	1:6:503:TYR:HD1	2.36	0.43
1:7:679:ARG:HH21	1:7:681:ASN:CG	2.25	0.43
1:A:494:TRP:CD1	1:A:503:TYR:HD1	2.36	0.43
1:E:462:ASN:ND2	1:Q:343:GLY:O	2.51	0.43
1:E:522:LEU:HD12	1:F:435:LEU:HD22	2.01	0.43
1:E:679:ARG:HH21	1:E:681:ASN:CG	2.25	0.43
1:F:343:GLY:O	1:Q:462:ASN:ND2	2.52	0.43
1:G:259:VAL:HB	1:G:377:ASN:OD1	2.18	0.43
1:H:259:VAL:HB	1:H:377:ASN:OD1	2.18	0.43
1:H:494:TRP:CD1	1:H:503:TYR:HD1	2.36	0.43
1:J:255:THR:HG22	1:J:376:ASN:ND2	2.33	0.43
1:K:462:ASN:ND2	1:a:343:GLY:O	2.51	0.43
1:K:494:TRP:CD1	1:K:503:TYR:HD1	2.36	0.43
1:O:494:TRP:CD1	1:O:503:TYR:HD1	2.36	0.43
1:R:462:ASN:ND2	1:S:343:GLY:O	2.51	0.43
1:R:522:LEU:HD12	1:U:435:LEU:HD22	2.01	0.43
1:S:276:HIS:HD2	1:S:352:PRO:HB3	1.78	0.43
1:T:435:LEU:HD22	1:d:522:LEU:HD12	2.01	0.43
1:U:679:ARG:HH21	1:U:681:ASN:CG	2.25	0.43
1:V:259:VAL:HB	1:V:377:ASN:OD1	2.18	0.43
1:f:259:VAL:HB	1:f:377:ASN:OD1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:504:ALA:HA	1:f:505:PRO:HA	1.78	0.43
1:l:259:VAL:HB	1:l:377:ASN:OD1	2.18	0.43
1:o:494:TRP:CD1	1:o:503:TYR:HD1	2.36	0.43
1:o:679:ARG:HH21	1:o:681:ASN:CG	2.25	0.43
1:q:522:LEU:HD12	1:s:435:LEU:HD22	2.01	0.43
1:r:679:ARG:HH21	1:r:681:ASN:CG	2.25	0.43
1:s:259:VAL:HB	1:s:377:ASN:OD1	2.18	0.43
1:t:259:VAL:HB	1:t:377:ASN:OD1	2.18	0.43
1:t:679:ARG:HH21	1:t:681:ASN:CG	2.26	0.43
1:w:255:THR:HG22	1:w:376:ASN:ND2	2.33	0.43
1:w:679:ARG:HH21	1:w:681:ASN:CG	2.25	0.43
1:3:343:GLY:O	1:4:462:ASN:ND2	2.52	0.43
1:A:255:THR:HG22	1:A:376:ASN:ND2	2.33	0.43
1:B:259:VAL:HB	1:B:377:ASN:OD1	2.18	0.43
1:D:255:THR:HG22	1:D:376:ASN:ND2	2.33	0.43
1:F:209:ASP:OD1	1:R:213:GLN:NE2	2.50	0.43
1:G:639:VAL:HG12	1:G:656:ILE:HD12	2.01	0.43
1:J:435:LEU:HD22	1:L:522:LEU:HD12	2.01	0.43
1:K:639:VAL:HG12	1:K:656:ILE:HD12	2.01	0.43
1:K:679:ARG:HH21	1:K:681:ASN:CG	2.25	0.43
1:S:435:LEU:HD22	1:U:522:LEU:HD12	2.01	0.43
1:S:679:ARG:HH21	1:S:681:ASN:CG	2.25	0.43
1:V:242:TYR:OH	1:V:360:LEU:O	2.36	0.43
1:b:259:VAL:HB	1:b:377:ASN:OD1	2.18	0.43
1:e:504:ALA:HA	1:e:505:PRO:HA	1.78	0.43
1:f:370:GLY:HA2	1:f:371:PRO:HD3	1.81	0.43
1:h:370:GLY:HA2	1:h:371:PRO:HD3	1.81	0.43
1:i:462:ASN:ND2	1:j:343:GLY:O	2.52	0.43
1:j:259:VAL:HB	1:j:377:ASN:OD1	2.18	0.43
1:j:494:TRP:CD1	1:j:503:TYR:HD1	2.36	0.43
1:l:494:TRP:CD1	1:l:503:TYR:HD1	2.36	0.43
1:p:242:TYR:OH	1:p:360:LEU:O	2.36	0.43
1:q:462:ASN:ND2	1:r:343:GLY:O	2.51	0.43
1:t:450:LYS:NZ	1:u:347:GLU:OE2	2.25	0.43
1:t:639:VAL:HG12	1:t:656:ILE:HD12	2.01	0.43
1:v:255:THR:HG22	1:v:376:ASN:ND2	2.33	0.43
1:v:494:TRP:CD1	1:v:503:TYR:HD1	2.36	0.43
1:w:462:ASN:ND2	1:x:343:GLY:O	2.51	0.43
1:w:522:LEU:HD12	1:y:435:LEU:HD22	2.01	0.43
1:x:435:LEU:HD22	1:y:522:LEU:HD12	2.01	0.43
1:z:425:ARG:HB3	1:l:366:LEU:CD1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:462:ASN:ND2	1:1:343:GLY:O	2.52	0.43
1:2:255:THR:HG22	1:2:376:ASN:ND2	2.33	0.43
1:C:259:VAL:HB	1:C:377:ASN:OD1	2.18	0.43
1:E:681:ASN:HB2	1:E:682:PRO:HD2	2.01	0.43
1:F:259:VAL:HB	1:F:377:ASN:OD1	2.18	0.43
1:N:255:THR:HG22	1:N:376:ASN:ND2	2.33	0.43
1:N:462:ASN:ND2	1:P:343:GLY:O	2.52	0.43
1:P:259:VAL:HB	1:P:377:ASN:OD1	2.18	0.43
1:Q:639:VAL:HG12	1:Q:656:ILE:HD12	2.01	0.43
1:T:259:VAL:HB	1:T:377:ASN:OD1	2.18	0.43
1:X:494:TRP:CD1	1:X:503:TYR:HD1	2.36	0.43
1:X:522:LEU:HD12	1:e:435:LEU:HD22	2.01	0.43
1:d:259:VAL:HB	1:d:377:ASN:OD1	2.18	0.43
1:d:274:ARG:CD	1:d:276:HIS:CE1	3.02	0.43
1:f:343:GLY:O	1:g:462:ASN:ND2	2.52	0.43
1:g:259:VAL:HB	1:g:377:ASN:OD1	2.18	0.43
1:k:255:THR:HG22	1:k:376:ASN:ND2	2.33	0.43
1:m:255:THR:HG22	1:m:376:ASN:ND2	2.33	0.43
1:m:259:VAL:HB	1:m:377:ASN:OD1	2.18	0.43
1:m:435:LEU:HD22	1:n:522:LEU:HD12	2.01	0.43
1:n:274:ARG:CD	1:n:276:HIS:CE1	3.02	0.43
1:p:259:VAL:HB	1:p:377:ASN:OD1	2.18	0.43
1:r:435:LEU:HD22	1:s:522:LEU:HD12	2.01	0.43
1:s:679:ARG:HH21	1:s:681:ASN:CG	2.25	0.43
1:y:259:VAL:HB	1:y:377:ASN:OD1	2.18	0.43
1:z:504:ALA:HA	1:z:505:PRO:HA	1.78	0.43
1:1:259:VAL:HB	1:1:377:ASN:OD1	2.18	0.43
1:4:639:VAL:HG12	1:4:656:ILE:HD12	2.01	0.43
1:4:679:ARG:HH21	1:4:681:ASN:CG	2.25	0.43
1:8:504:ALA:HA	1:8:505:PRO:HA	1.78	0.43
1:B:343:GLY:O	1:L:462:ASN:ND2	2.52	0.43
1:C:274:ARG:CD	1:C:276:HIS:CE1	3.02	0.43
1:C:462:ASN:ND2	1:b:343:GLY:O	2.51	0.43
1:D:445:ASN:HB2	1:N:536:ALA:O	2.19	0.43
1:E:445:ASN:HB2	1:Q:536:ALA:O	2.19	0.43
1:E:487:THR:N	1:F:439:ASP:O	2.52	0.43
1:F:255:THR:HG22	1:F:376:ASN:ND2	2.33	0.43
1:F:639:VAL:HG12	1:F:656:ILE:HD12	2.01	0.43
1:J:439:ASP:O	1:L:487:THR:N	2.52	0.43
1:J:445:ASN:HB2	1:L:536:ALA:O	2.19	0.43
1:J:639:VAL:HG12	1:J:656:ILE:HD12	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:259:VAL:HB	1:L:377:ASN:OD1	2.18	0.43
1:M:370:GLY:HA2	1:M:371:PRO:HD3	1.81	0.43
1:M:494:TRP:CD1	1:M:503:TYR:HD1	2.36	0.43
1:O:259:VAL:HB	1:O:377:ASN:OD1	2.18	0.43
1:O:522:LEU:HD12	1:n:435:LEU:HD22	2.01	0.43
1:S:274:ARG:CD	1:S:276:HIS:CE1	3.02	0.43
1:V:522:LEU:HD12	1:X:435:LEU:HD22	2.01	0.43
1:a:255:THR:HG22	1:a:376:ASN:ND2	2.33	0.43
1:c:435:LEU:HD22	1:o:522:LEU:HD12	2.01	0.43
1:g:274:ARG:CD	1:g:276:HIS:CE1	3.02	0.43
1:h:494:TRP:CD1	1:h:503:TYR:HD1	2.36	0.43
1:i:255:THR:HG22	1:i:376:ASN:ND2	2.33	0.43
1:o:435:LEU:HD22	1:p:522:LEU:HD12	2.01	0.43
1:w:259:VAL:HB	1:w:377:ASN:OD1	2.18	0.43
1:w:274:ARG:CD	1:w:276:HIS:CE1	3.02	0.43
1:w:299:LEU:HG	1:w:406:TYR:HB3	2.01	0.43
1:w:487:THR:N	1:y:439:ASP:O	2.52	0.43
1:w:681:ASN:HB2	1:w:682:PRO:HD2	2.01	0.43
1:y:255:THR:HG22	1:y:376:ASN:ND2	2.33	0.43
1:z:259:VAL:HB	1:z:377:ASN:OD1	2.18	0.43
1:2:639:VAL:HG12	1:2:656:ILE:HD12	2.01	0.43
1:3:522:LEU:HD12	1:4:435:LEU:HD22	2.01	0.43
1:A:274:ARG:CD	1:A:276:HIS:CE1	3.02	0.43
1:A:487:THR:N	1:I:439:ASP:O	2.52	0.43
1:B:255:THR:HG22	1:B:376:ASN:ND2	2.33	0.43
1:C:487:THR:N	1:M:439:ASP:O	2.52	0.43
1:E:259:VAL:HB	1:E:377:ASN:OD1	2.18	0.43
1:E:274:ARG:CD	1:E:276:HIS:CE1	3.02	0.43
1:E:504:ALA:HA	1:E:505:PRO:HA	1.78	0.43
1:F:522:LEU:HD12	1:Q:435:LEU:HD22	2.01	0.43
1:H:606:LYS:HB2	1:H:628:PRO:HG3	2.01	0.43
1:J:274:ARG:CD	1:J:276:HIS:CE1	3.02	0.43
1:J:462:ASN:ND2	1:L:343:GLY:O	2.51	0.43
1:K:435:LEU:HD22	1:a:522:LEU:HD12	2.01	0.43
1:L:504:ALA:HA	1:L:505:PRO:HA	1.78	0.43
1:P:299:LEU:HG	1:P:406:TYR:HB3	2.01	0.43
1:R:271:ASP:O	1:R:349:CYS:HA	2.19	0.43
1:T:255:THR:HG22	1:T:376:ASN:ND2	2.33	0.43
1:T:343:GLY:O	1:l:462:ASN:ND2	2.51	0.43
1:U:255:THR:HG22	1:U:376:ASN:ND2	2.33	0.43
1:U:299:LEU:HG	1:U:406:TYR:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:439:ASP:O	1:e:487:THR:N	2.52	0.43
1:W:274:ARG:CD	1:W:276:HIS:CE1	3.02	0.43
1:W:299:LEU:HG	1:W:406:TYR:HB3	2.01	0.43
1:c:487:THR:N	1:p:439:ASP:O	2.52	0.43
1:c:681:ASN:HB2	1:c:682:PRO:HD2	2.01	0.43
1:d:435:LEU:HD22	1:l:522:LEU:HD12	2.01	0.43
1:d:462:ASN:ND2	1:l:343:GLY:O	2.51	0.43
1:e:681:ASN:HB2	1:e:682:PRO:HD2	2.01	0.43
1:g:487:THR:N	1:h:439:ASP:O	2.52	0.43
1:i:536:ALA:O	1:k:445:ASN:HB2	2.19	0.43
1:j:299:LEU:HG	1:j:406:TYR:HB3	2.01	0.43
1:l:274:ARG:CD	1:l:276:HIS:CE1	3.02	0.43
1:m:242:TYR:OH	1:m:360:LEU:O	2.36	0.43
1:n:259:VAL:HB	1:n:377:ASN:OD1	2.18	0.43
1:q:259:VAL:HB	1:q:377:ASN:OD1	2.18	0.43
1:q:271:ASP:O	1:q:349:CYS:HA	2.19	0.43
1:r:259:VAL:HB	1:r:377:ASN:OD1	2.18	0.43
1:r:274:ARG:CD	1:r:276:HIS:CE1	3.02	0.43
1:r:606:LYS:HB2	1:r:628:PRO:HG3	2.01	0.43
1:u:435:LEU:HD22	1:v:522:LEU:HD12	2.01	0.43
1:u:439:ASP:O	1:v:487:THR:N	2.52	0.43
1:x:639:VAL:HG12	1:x:656:ILE:HD12	2.01	0.43
1:1:255:THR:HG22	1:1:376:ASN:ND2	2.33	0.43
1:3:255:THR:HG22	1:3:376:ASN:ND2	2.33	0.43
1:6:274:ARG:CD	1:6:276:HIS:CE1	3.02	0.43
1:7:271:ASP:O	1:7:349:CYS:HA	2.19	0.43
1:A:522:LEU:HD12	1:I:435:LEU:HD22	2.01	0.42
1:E:639:VAL:HG12	1:E:656:ILE:HD12	2.01	0.42
1:H:487:THR:N	1:Y:439:ASP:O	2.53	0.42
1:K:681:ASN:HB2	1:K:682:PRO:HD2	2.01	0.42
1:L:299:LEU:HG	1:L:406:TYR:HB3	2.01	0.42
1:M:276:HIS:HD2	1:M:352:PRO:HB3	1.78	0.42
1:O:343:GLY:O	1:n:462:ASN:ND2	2.51	0.42
1:O:487:THR:N	1:n:439:ASP:O	2.52	0.42
1:R:259:VAL:HB	1:R:377:ASN:OD1	2.18	0.42
1:R:606:LYS:HB2	1:R:628:PRO:HG3	2.01	0.42
1:R:681:ASN:HB2	1:R:682:PRO:HD2	2.01	0.42
1:S:606:LYS:HB2	1:S:628:PRO:HG3	2.01	0.42
1:S:639:VAL:HG12	1:S:656:ILE:HD12	2.01	0.42
1:T:242:TYR:OH	1:T:360:LEU:O	2.36	0.42
1:T:445:ASN:HB2	1:d:536:ALA:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:418:MET:O	1:U:718:THR:HA	2.19	0.42
1:V:462:ASN:ND2	1:e:343:GLY:O	2.51	0.42
1:V:536:ALA:O	1:X:445:ASN:HB2	2.19	0.42
1:W:639:VAL:HG12	1:W:656:ILE:HD12	2.01	0.42
1:Y:271:ASP:O	1:Y:349:CYS:HA	2.19	0.42
1:Y:606:LYS:HB2	1:Y:628:PRO:HG3	2.01	0.42
1:Z:299:LEU:HG	1:Z:406:TYR:HB3	2.01	0.42
1:Z:370:GLY:HA2	1:Z:371:PRO:HD3	1.81	0.42
1:Z:475:ASN:OD1	1:Z:476:LYS:N	2.52	0.42
1:Z:606:LYS:HB2	1:Z:628:PRO:HG3	2.02	0.42
1:a:418:MET:O	1:a:718:THR:HA	2.19	0.42
1:b:681:ASN:HB2	1:b:682:PRO:HD2	2.01	0.42
1:c:606:LYS:HB2	1:c:628:PRO:HG3	2.01	0.42
1:d:439:ASP:O	1:l:487:THR:N	2.52	0.42
1:f:255:THR:HG22	1:f:376:ASN:ND2	2.33	0.42
1:j:255:THR:HG22	1:j:376:ASN:ND2	2.33	0.42
1:k:271:ASP:O	1:k:349:CYS:HA	2.19	0.42
1:l:639:VAL:HG12	1:l:656:ILE:HD12	2.01	0.42
1:n:276:HIS:HD2	1:n:352:PRO:HB3	1.79	0.42
1:o:418:MET:O	1:o:718:THR:HA	2.19	0.42
1:s:299:LEU:HG	1:s:406:TYR:HB3	2.01	0.42
1:s:418:MET:O	1:s:718:THR:HA	2.19	0.42
1:t:271:ASP:O	1:t:349:CYS:HA	2.19	0.42
1:v:274:ARG:CD	1:v:276:HIS:CE1	3.02	0.42
1:w:445:ASN:HB2	1:x:536:ALA:O	2.19	0.42
1:w:639:VAL:HG12	1:w:656:ILE:HD12	2.01	0.42
1:x:445:ASN:HB2	1:y:536:ALA:O	2.19	0.42
1:y:639:VAL:HG12	1:y:656:ILE:HD12	2.01	0.42
1:z:299:LEU:HG	1:z:406:TYR:HB3	2.01	0.42
1:2:299:LEU:HG	1:2:406:TYR:HB3	2.01	0.42
1:3:418:MET:O	1:3:718:THR:HA	2.19	0.42
1:5:487:THR:N	1:7:439:ASP:O	2.53	0.42
1:5:606:LYS:HB2	1:5:628:PRO:HG3	2.01	0.42
1:6:299:LEU:HG	1:6:406:TYR:HB3	2.01	0.42
1:6:639:VAL:HG12	1:6:656:ILE:HD12	2.01	0.42
1:7:606:LYS:HB2	1:7:628:PRO:HG3	2.01	0.42
1:8:299:LEU:HG	1:8:406:TYR:HB3	2.01	0.42
1:8:418:MET:O	1:8:718:THR:HA	2.19	0.42
1:8:606:LYS:HB2	1:8:628:PRO:HG3	2.02	0.42
1:A:418:MET:O	1:A:718:THR:HA	2.19	0.42
1:A:536:ALA:O	1:I:445:ASN:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:639:VAL:HG12	1:C:656:ILE:HD12	2.01	0.42
1:D:271:ASP:O	1:D:349:CYS:HA	2.19	0.42
1:E:271:ASP:O	1:E:349:CYS:HA	2.19	0.42
1:E:299:LEU:HG	1:E:406:TYR:HB3	2.01	0.42
1:F:536:ALA:O	1:Q:445:ASN:HB2	2.19	0.42
1:G:271:ASP:O	1:G:349:CYS:HA	2.19	0.42
1:G:439:ASP:O	1:I:487:THR:N	2.52	0.42
1:H:522:LEU:HD12	1:Y:435:LEU:HD22	2.01	0.42
1:H:639:VAL:HG12	1:H:656:ILE:HD12	2.01	0.42
1:N:475:ASN:OD1	1:N:476:LYS:N	2.52	0.42
1:O:462:ASN:ND2	1:m:343:GLY:O	2.51	0.42
1:O:606:LYS:HB2	1:O:628:PRO:HG3	2.02	0.42
1:P:255:THR:HG22	1:P:376:ASN:ND2	2.33	0.42
1:P:606:LYS:HB2	1:P:628:PRO:HG3	2.01	0.42
1:S:259:VAL:HB	1:S:377:ASN:OD1	2.18	0.42
1:S:679:ARG:HD3	1:S:683:GLU:OE2	2.20	0.42
1:T:418:MET:O	1:T:718:THR:HA	2.20	0.42
1:T:425:ARG:HB3	1:d:366:LEU:HD11	2.01	0.42
1:V:445:ASN:HB2	1:e:536:ALA:O	2.19	0.42
1:V:639:VAL:HG12	1:V:656:ILE:HD12	2.01	0.42
1:W:259:VAL:HB	1:W:377:ASN:OD1	2.18	0.42
1:W:435:LEU:HD22	1:Y:522:LEU:HD12	2.00	0.42
1:W:439:ASP:O	1:Y:487:THR:N	2.52	0.42
1:X:418:MET:O	1:X:718:THR:HA	2.20	0.42
1:Y:259:VAL:HB	1:Y:377:ASN:OD1	2.18	0.42
1:Z:418:MET:O	1:Z:718:THR:HA	2.19	0.42
1:a:439:ASP:O	1:8:487:THR:N	2.52	0.42
1:b:255:THR:HG22	1:b:376:ASN:ND2	2.33	0.42
1:b:271:ASP:O	1:b:349:CYS:HA	2.19	0.42
1:b:370:GLY:HA2	1:b:371:PRO:HD3	1.81	0.42
1:d:475:ASN:OD1	1:d:476:LYS:N	2.53	0.42
1:d:681:ASN:HB2	1:d:682:PRO:HD2	2.01	0.42
1:e:606:LYS:HB2	1:e:628:PRO:HG3	2.01	0.42
1:f:679:ARG:HD3	1:f:683:GLU:OE2	2.20	0.42
1:g:343:GLY:O	1:h:462:ASN:ND2	2.51	0.42
1:g:639:VAL:HG12	1:g:656:ILE:HD12	2.01	0.42
1:i:475:ASN:OD1	1:i:476:LYS:N	2.52	0.42
1:l:271:ASP:O	1:l:349:CYS:HA	2.19	0.42
1:l:606:LYS:HB2	1:l:628:PRO:HG3	2.02	0.42
1:m:418:MET:O	1:m:718:THR:HA	2.20	0.42
1:m:425:ARG:HB3	1:n:366:LEU:HD11	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:445:ASN:HB2	1:n:536:ALA:O	2.20	0.42
1:m:462:ASN:ND2	1:n:343:GLY:O	2.51	0.42
1:n:475:ASN:OD1	1:n:476:LYS:N	2.53	0.42
1:n:681:ASN:HB2	1:n:682:PRO:HD2	2.01	0.42
1:o:255:THR:HG22	1:o:376:ASN:ND2	2.33	0.42
1:o:271:ASP:O	1:o:349:CYS:HA	2.19	0.42
1:o:445:ASN:HB2	1:p:536:ALA:O	2.19	0.42
1:q:606:LYS:HB2	1:q:628:PRO:HG3	2.01	0.42
1:q:681:ASN:HB2	1:q:682:PRO:HD2	2.01	0.42
1:r:639:VAL:HG12	1:r:656:ILE:HD12	2.01	0.42
1:s:255:THR:HG22	1:s:376:ASN:ND2	2.33	0.42
1:t:418:MET:O	1:t:718:THR:HA	2.19	0.42
1:t:439:ASP:O	1:u:487:THR:N	2.52	0.42
1:v:418:MET:O	1:v:718:THR:HA	2.19	0.42
1:w:271:ASP:O	1:w:349:CYS:HA	2.19	0.42
1:2:274:ARG:CD	1:2:276:HIS:CE1	3.02	0.42
1:4:606:LYS:HB2	1:4:628:PRO:HG3	2.01	0.42
1:4:681:ASN:HB2	1:4:682:PRO:HD2	2.01	0.42
1:6:435:LEU:HD22	1:7:522:LEU:HD12	2.00	0.42
1:6:439:ASP:O	1:7:487:THR:N	2.52	0.42
1:7:639:VAL:HG12	1:7:656:ILE:HD12	2.01	0.42
1:8:475:ASN:OD1	1:8:476:LYS:N	2.52	0.42
1:A:475:ASN:OD1	1:A:476:LYS:N	2.53	0.42
1:A:679:ARG:NH1	1:A:683:GLU:HG2	2.35	0.42
1:B:522:LEU:HD12	1:L:435:LEU:HD22	2.01	0.42
1:C:343:GLY:O	1:M:462:ASN:ND2	2.51	0.42
1:D:536:ALA:O	1:P:445:ASN:HB2	2.19	0.42
1:E:418:MET:O	1:E:718:THR:HA	2.19	0.42
1:E:536:ALA:O	1:F:445:ASN:HB2	2.20	0.42
1:F:299:LEU:HG	1:F:406:TYR:HB3	2.01	0.42
1:G:418:MET:O	1:G:718:THR:HA	2.19	0.42
1:I:299:LEU:HG	1:I:406:TYR:HB3	2.01	0.42
1:J:299:LEU:HG	1:J:406:TYR:HB3	2.01	0.42
1:J:475:ASN:OD1	1:J:476:LYS:N	2.53	0.42
1:K:475:ASN:OD1	1:K:476:LYS:N	2.53	0.42
1:K:606:LYS:HB2	1:K:628:PRO:HG3	2.01	0.42
1:N:606:LYS:HB2	1:N:628:PRO:HG3	2.01	0.42
1:O:271:ASP:O	1:O:349:CYS:HA	2.19	0.42
1:O:639:VAL:HG12	1:O:656:ILE:HD12	2.01	0.42
1:P:418:MET:O	1:P:718:THR:HA	2.19	0.42
1:P:679:ARG:HD3	1:P:683:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:418:MET:O	1:S:718:THR:HA	2.20	0.42
1:U:475:ASN:OD1	1:U:476:LYS:N	2.53	0.42
1:W:242:TYR:OH	1:W:360:LEU:O	2.36	0.42
1:W:679:ARG:HD3	1:W:683:GLU:OE2	2.20	0.42
1:X:255:THR:HG22	1:X:376:ASN:ND2	2.33	0.42
1:Y:475:ASN:OD1	1:Y:476:LYS:N	2.52	0.42
1:Y:639:VAL:HG12	1:Y:656:ILE:HD12	2.01	0.42
1:Z:487:THR:N	1:3:439:ASP:O	2.52	0.42
1:Z:536:ALA:O	1:3:445:ASN:HB2	2.20	0.42
1:Z:679:ARG:HD3	1:Z:683:GLU:OE2	2.20	0.42
1:a:475:ASN:OD1	1:a:476:LYS:N	2.53	0.42
1:b:475:ASN:OD1	1:b:476:LYS:N	2.53	0.42
1:b:679:ARG:HD3	1:b:683:GLU:OE2	2.20	0.42
1:c:343:GLY:O	1:p:462:ASN:ND2	2.51	0.42
1:c:418:MET:O	1:c:718:THR:HA	2.19	0.42
1:c:536:ALA:O	1:p:445:ASN:HB2	2.20	0.42
1:d:494:TRP:CD1	1:d:503:TYR:HD1	2.36	0.42
1:e:259:VAL:HB	1:e:377:ASN:OD1	2.18	0.42
1:e:274:ARG:CD	1:e:276:HIS:CE1	3.02	0.42
1:e:418:MET:O	1:e:718:THR:HA	2.19	0.42
1:f:475:ASN:OD1	1:f:476:LYS:N	2.52	0.42
1:i:606:LYS:HB2	1:i:628:PRO:HG3	2.01	0.42
1:j:418:MET:O	1:j:718:THR:HA	2.19	0.42
1:j:445:ASN:HB2	1:k:536:ALA:O	2.19	0.42
1:j:606:LYS:HB2	1:j:628:PRO:HG3	2.01	0.42
1:j:679:ARG:HD3	1:j:683:GLU:OE2	2.20	0.42
1:l:679:ARG:NH1	1:l:683:GLU:HG2	2.35	0.42
1:m:606:LYS:HB2	1:m:628:PRO:HG3	2.01	0.42
1:n:370:GLY:HA2	1:n:371:PRO:HD3	1.81	0.42
1:n:494:TRP:CD1	1:n:503:TYR:HD1	2.36	0.42
1:p:639:VAL:HG12	1:p:656:ILE:HD12	2.01	0.42
1:q:679:ARG:NH1	1:q:683:GLU:HG2	2.35	0.42
1:r:418:MET:O	1:r:718:THR:HA	2.20	0.42
1:r:679:ARG:HD3	1:r:683:GLU:OE2	2.20	0.42
1:u:445:ASN:HB2	1:v:536:ALA:O	2.19	0.42
1:v:679:ARG:NH1	1:v:683:GLU:HG2	2.35	0.42
1:w:418:MET:O	1:w:718:THR:HA	2.19	0.42
1:w:536:ALA:O	1:y:445:ASN:HB2	2.20	0.42
1:y:299:LEU:HG	1:y:406:TYR:HB3	2.01	0.42
1:z:271:ASP:O	1:z:349:CYS:HA	2.19	0.42
1:2:475:ASN:OD1	1:2:476:LYS:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:259:VAL:HB	1:3:377:ASN:OD1	2.18	0.42
1:3:475:ASN:OD1	1:3:476:LYS:N	2.53	0.42
1:4:299:LEU:HG	1:4:406:TYR:HB3	2.01	0.42
1:4:418:MET:O	1:4:718:THR:HA	2.19	0.42
1:5:522:LEU:HD12	1:7:435:LEU:HD22	2.01	0.42
1:5:639:VAL:HG12	1:5:656:ILE:HD12	2.01	0.42
1:6:259:VAL:HB	1:6:377:ASN:OD1	2.18	0.42
1:7:259:VAL:HB	1:7:377:ASN:OD1	2.18	0.42
1:7:274:ARG:CD	1:7:276:HIS:CE1	3.02	0.42
1:7:475:ASN:OD1	1:7:476:LYS:N	2.52	0.42
1:7:679:ARG:HD3	1:7:683:GLU:OE2	2.20	0.42
1:A:343:GLY:O	1:I:462:ASN:ND2	2.52	0.42
1:A:679:ARG:HD3	1:A:683:GLU:OE2	2.20	0.42
1:E:679:ARG:NH1	1:E:683:GLU:HG2	2.35	0.42
1:F:475:ASN:OD1	1:F:476:LYS:N	2.53	0.42
1:F:487:THR:N	1:Q:439:ASP:O	2.52	0.42
1:G:450:LYS:NZ	1:I:347:GLU:OE2	2.25	0.42
1:I:271:ASP:O	1:I:349:CYS:HA	2.19	0.42
1:J:681:ASN:HB2	1:J:682:PRO:HD2	2.01	0.42
1:K:299:LEU:HG	1:K:406:TYR:HB3	2.01	0.42
1:M:475:ASN:OD1	1:M:476:LYS:N	2.52	0.42
1:N:445:ASN:HB2	1:P:536:ALA:O	2.19	0.42
1:O:679:ARG:NH1	1:O:683:GLU:HG2	2.35	0.42
1:P:679:ARG:NH1	1:P:683:GLU:HG2	2.35	0.42
1:Q:475:ASN:OD1	1:Q:476:LYS:N	2.52	0.42
1:R:494:TRP:CD1	1:R:503:TYR:HD1	2.36	0.42
1:R:679:ARG:NH1	1:R:683:GLU:HG2	2.35	0.42
1:T:462:ASN:ND2	1:d:343:GLY:O	2.52	0.42
1:T:469:CYS:HB2	1:l:565:ILE:CD1	2.50	0.42
1:T:536:ALA:O	1:l:445:ASN:HB2	2.19	0.42
1:T:606:LYS:HB2	1:T:628:PRO:HG3	2.01	0.42
1:U:639:VAL:HG12	1:U:656:ILE:HD12	2.01	0.42
1:U:679:ARG:NH1	1:U:683:GLU:HG2	2.35	0.42
1:V:475:ASN:OD1	1:V:476:LYS:N	2.53	0.42
1:V:681:ASN:HB2	1:V:682:PRO:HD2	2.01	0.42
1:X:271:ASP:O	1:X:349:CYS:HA	2.19	0.42
1:X:475:ASN:OD1	1:X:476:LYS:N	2.52	0.42
1:X:679:ARG:HD3	1:X:683:GLU:OE2	2.20	0.42
1:Y:274:ARG:CD	1:Y:276:HIS:CE1	3.02	0.42
1:Y:679:ARG:HD3	1:Y:683:GLU:OE2	2.20	0.42
1:a:259:VAL:HB	1:a:377:ASN:OD1	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:445:ASN:HB2	1:8:536:ALA:O	2.20	0.42
1:a:679:ARG:HD3	1:a:683:GLU:OE2	2.20	0.42
1:c:259:VAL:HB	1:c:377:ASN:OD1	2.18	0.42
1:c:274:ARG:CD	1:c:276:HIS:CE1	3.02	0.42
1:f:681:ASN:HB2	1:f:682:PRO:HD2	2.01	0.42
1:h:418:MET:O	1:h:718:THR:HA	2.19	0.42
1:i:445:ASN:HB2	1:j:536:ALA:O	2.19	0.42
1:i:504:ALA:HA	1:i:505:PRO:HA	1.78	0.42
1:i:679:ARG:HD3	1:i:683:GLU:OE2	2.20	0.42
1:j:462:ASN:ND2	1:k:343:GLY:O	2.52	0.42
1:j:679:ARG:NH1	1:j:683:GLU:HG2	2.35	0.42
1:m:299:LEU:HG	1:m:406:TYR:HB3	2.01	0.42
1:n:271:ASP:O	1:n:349:CYS:HA	2.19	0.42
1:o:679:ARG:HD3	1:o:683:GLU:OE2	2.20	0.42
1:s:475:ASN:OD1	1:s:476:LYS:N	2.53	0.42
1:s:504:ALA:HA	1:s:505:PRO:HA	1.78	0.42
1:s:639:VAL:HG12	1:s:656:ILE:HD12	2.01	0.42
1:s:679:ARG:NH1	1:s:683:GLU:HG2	2.35	0.42
1:t:679:ARG:HD3	1:t:683:GLU:OE2	2.20	0.42
1:u:271:ASP:O	1:u:349:CYS:HA	2.19	0.42
1:u:299:LEU:HG	1:u:406:TYR:HB3	2.01	0.42
1:v:299:LEU:HG	1:v:406:TYR:HB3	2.01	0.42
1:v:475:ASN:OD1	1:v:476:LYS:N	2.53	0.42
1:w:679:ARG:NH1	1:w:683:GLU:HG2	2.35	0.42
1:x:475:ASN:OD1	1:x:476:LYS:N	2.53	0.42
1:y:475:ASN:OD1	1:y:476:LYS:N	2.53	0.42
1:z:343:GLY:O	1:2:462:ASN:ND2	2.51	0.42
1:z:418:MET:O	1:z:718:THR:HA	2.19	0.42
1:z:639:VAL:HG12	1:z:656:ILE:HD12	2.01	0.42
1:1:679:ARG:NH1	1:1:683:GLU:HG2	2.35	0.42
1:2:681:ASN:HB2	1:2:682:PRO:HD2	2.01	0.42
1:3:271:ASP:O	1:3:349:CYS:HA	2.19	0.42
1:3:679:ARG:HD3	1:3:683:GLU:OE2	2.20	0.42
1:4:475:ASN:OD1	1:4:476:LYS:N	2.53	0.42
1:5:271:ASP:O	1:5:349:CYS:HA	2.19	0.42
1:6:679:ARG:HD3	1:6:683:GLU:OE2	2.20	0.42
1:7:418:MET:O	1:7:718:THR:HA	2.19	0.42
1:8:679:ARG:HD3	1:8:683:GLU:OE2	2.20	0.42
1:A:299:LEU:HG	1:A:406:TYR:HB3	2.01	0.42
1:A:639:VAL:HG12	1:A:656:ILE:HD12	2.01	0.42
1:A:681:ASN:HB2	1:A:682:PRO:HD2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:679:ARG:NH1	1:B:683:GLU:HG2	2.35	0.42
1:C:435:LEU:HD22	1:b:522:LEU:HD12	2.01	0.42
1:C:475:ASN:OD1	1:C:476:LYS:N	2.53	0.42
1:C:522:LEU:HD12	1:M:435:LEU:HD22	2.01	0.42
1:D:475:ASN:OD1	1:D:476:LYS:N	2.53	0.42
1:D:606:LYS:HB2	1:D:628:PRO:HG3	2.01	0.42
1:G:679:ARG:HD3	1:G:683:GLU:OE2	2.20	0.42
1:H:271:ASP:O	1:H:349:CYS:HA	2.19	0.42
1:H:428:ASN:HD22	1:H:431:VAL:HG22	1.85	0.42
1:H:679:ARG:HD3	1:H:683:GLU:OE2	2.20	0.42
1:K:418:MET:O	1:K:718:THR:HA	2.20	0.42
1:L:271:ASP:O	1:L:349:CYS:HA	2.20	0.42
1:L:418:MET:O	1:L:718:THR:HA	2.19	0.42
1:L:679:ARG:NH1	1:L:683:GLU:HG2	2.35	0.42
1:M:418:MET:O	1:M:718:THR:HA	2.20	0.42
1:N:679:ARG:NH1	1:N:683:GLU:HG2	2.35	0.42
1:O:445:ASN:HB2	1:m:536:ALA:O	2.19	0.42
1:O:565:ILE:CD1	1:m:469:CYS:HB2	2.50	0.42
1:R:299:LEU:HG	1:R:406:TYR:HB3	2.01	0.42
1:R:475:ASN:OD1	1:R:476:LYS:N	2.53	0.42
1:S:299:LEU:HG	1:S:406:TYR:HB3	2.01	0.42
1:T:271:ASP:O	1:T:349:CYS:HA	2.19	0.42
1:T:299:LEU:HG	1:T:406:TYR:HB3	2.01	0.42
1:X:536:ALA:O	1:e:445:ASN:HB2	2.20	0.42
1:Y:418:MET:O	1:Y:718:THR:HA	2.19	0.42
1:Z:639:VAL:HG12	1:Z:656:ILE:HD12	2.01	0.42
1:a:271:ASP:O	1:a:349:CYS:HA	2.19	0.42
1:a:679:ARG:NH1	1:a:683:GLU:HG2	2.35	0.42
1:c:445:ASN:HB2	1:o:536:ALA:O	2.20	0.42
1:c:679:ARG:HD3	1:c:683:GLU:OE2	2.20	0.42
1:d:271:ASP:O	1:d:349:CYS:HA	2.19	0.42
1:d:425:ARG:HB3	1:l:366:LEU:HD11	2.02	0.42
1:f:271:ASP:O	1:f:349:CYS:HA	2.20	0.42
1:f:274:ARG:CD	1:f:276:HIS:CE1	3.02	0.42
1:g:271:ASP:O	1:g:349:CYS:HA	2.19	0.42
1:g:475:ASN:OD1	1:g:476:LYS:N	2.53	0.42
1:g:522:LEU:HD12	1:h:435:LEU:HD22	2.01	0.42
1:h:475:ASN:OD1	1:h:476:LYS:N	2.53	0.42
1:i:343:GLY:O	1:k:462:ASN:ND2	2.52	0.42
1:i:679:ARG:NH1	1:i:683:GLU:HG2	2.35	0.42
1:k:475:ASN:OD1	1:k:476:LYS:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:606:LYS:HB2	1:k:628:PRO:HG3	2.01	0.42
1:l:299:LEU:HG	1:l:406:TYR:HB3	2.01	0.42
1:l:418:MET:O	1:l:718:THR:HA	2.19	0.42
1:o:475:ASN:OD1	1:o:476:LYS:N	2.53	0.42
1:o:565:ILE:CD1	1:p:469:CYS:HB2	2.50	0.42
1:p:475:ASN:OD1	1:p:476:LYS:N	2.53	0.42
1:p:681:ASN:HB2	1:p:682:PRO:HD2	2.01	0.42
1:q:494:TRP:CD1	1:q:503:TYR:HD1	2.36	0.42
1:r:299:LEU:HG	1:r:406:TYR:HB3	2.01	0.42
1:r:679:ARG:NH1	1:r:683:GLU:HG2	2.35	0.42
1:t:299:LEU:HG	1:t:406:TYR:HB3	2.01	0.42
1:t:475:ASN:OD1	1:t:476:LYS:N	2.53	0.42
1:u:462:ASN:ND2	1:v:343:GLY:O	2.52	0.42
1:v:679:ARG:HD3	1:v:683:GLU:OE2	2.20	0.42
1:w:439:ASP:O	1:x:487:THR:N	2.52	0.42
1:x:439:ASP:O	1:y:487:THR:N	2.52	0.42
1:z:679:ARG:NH1	1:z:683:GLU:HG2	2.35	0.42
1:3:679:ARG:NH1	1:3:683:GLU:HG2	2.35	0.42
1:5:435:LEU:HD22	1:6:522:LEU:HD12	2.01	0.42
1:5:679:ARG:HD3	1:5:683:GLU:OE2	2.20	0.42
1:6:242:TYR:OH	1:6:360:LEU:O	2.36	0.42
1:A:435:LEU:HD22	1:G:522:LEU:HD12	2.01	0.42
1:A:606:LYS:HB2	1:A:628:PRO:HG3	2.01	0.42
1:C:271:ASP:O	1:C:349:CYS:HA	2.19	0.42
1:C:418:MET:O	1:C:718:THR:HA	2.19	0.42
1:C:445:ASN:HB2	1:b:536:ALA:O	2.19	0.42
1:D:343:GLY:O	1:P:462:ASN:ND2	2.52	0.42
1:D:425:ARG:HB3	1:N:366:LEU:HD11	2.02	0.42
1:D:462:ASN:ND2	1:N:343:GLY:O	2.52	0.42
1:D:487:THR:N	1:P:439:ASP:O	2.53	0.42
1:F:679:ARG:NH1	1:F:683:GLU:HG2	2.35	0.42
1:G:299:LEU:HG	1:G:406:TYR:HB3	2.01	0.42
1:G:435:LEU:HD22	1:I:522:LEU:HD12	2.01	0.42
1:G:445:ASN:HB2	1:I:536:ALA:O	2.19	0.42
1:G:475:ASN:OD1	1:G:476:LYS:N	2.53	0.42
1:H:435:LEU:HD22	1:W:522:LEU:HD12	2.01	0.42
1:H:469:CYS:HB2	1:Y:565:ILE:CD1	2.50	0.42
1:J:274:ARG:HD3	1:J:600:GLN:O	2.20	0.42
1:J:425:ARG:HB3	1:L:366:LEU:HD11	2.02	0.42
1:L:274:ARG:CD	1:L:276:HIS:CE1	3.02	0.42
1:L:475:ASN:OD1	1:L:476:LYS:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:504:ALA:HA	1:M:505:PRO:HA	1.78	0.42
1:M:639:VAL:HG12	1:M:656:ILE:HD12	2.01	0.42
1:N:639:VAL:HG12	1:N:656:ILE:HD12	2.01	0.42
1:N:679:ARG:HD3	1:N:683:GLU:OE2	2.20	0.42
1:O:299:LEU:HG	1:O:406:TYR:HB3	2.01	0.42
1:O:366:LEU:HD11	1:n:425:ARG:HB3	2.02	0.42
1:P:475:ASN:OD1	1:P:476:LYS:N	2.52	0.42
1:P:681:ASN:HB2	1:P:682:PRO:HD2	2.01	0.42
1:S:439:ASP:O	1:U:487:THR:N	2.52	0.42
1:S:679:ARG:NH1	1:S:683:GLU:HG2	2.35	0.42
1:U:504:ALA:HA	1:U:505:PRO:HA	1.78	0.42
1:V:469:CYS:HB2	1:X:565:ILE:CD1	2.50	0.42
1:W:679:ARG:NH1	1:W:683:GLU:HG2	2.35	0.42
1:X:487:THR:N	1:e:439:ASP:O	2.52	0.42
1:Y:679:ARG:NH1	1:Y:683:GLU:HG2	2.35	0.42
1:Z:439:ASP:O	1:4:487:THR:N	2.52	0.42
1:b:274:ARG:CD	1:b:276:HIS:CE1	3.02	0.42
1:d:276:HIS:HD2	1:d:352:PRO:HB3	1.78	0.42
1:d:370:GLY:HA2	1:d:371:PRO:HD3	1.81	0.42
1:e:679:ARG:HD3	1:e:683:GLU:OE2	2.20	0.42
1:f:536:ALA:O	1:g:445:ASN:HB2	2.19	0.42
1:g:418:MET:O	1:g:718:THR:HA	2.19	0.42
1:g:536:ALA:O	1:h:445:ASN:HB2	2.19	0.42
1:h:276:HIS:HD2	1:h:352:PRO:HB3	1.78	0.42
1:h:639:VAL:HG12	1:h:656:ILE:HD12	2.01	0.42
1:i:366:LEU:HD11	1:k:425:ARG:HB3	2.02	0.42
1:i:639:VAL:HG12	1:i:656:ILE:HD12	2.01	0.42
1:j:439:ASP:O	1:k:487:THR:N	2.53	0.42
1:m:271:ASP:O	1:m:349:CYS:HA	2.19	0.42
1:q:299:LEU:HG	1:q:406:TYR:HB3	2.01	0.42
1:q:343:GLY:O	1:s:462:ASN:ND2	2.52	0.42
1:q:475:ASN:OD1	1:q:476:LYS:N	2.53	0.42
1:r:439:ASP:O	1:s:487:THR:N	2.52	0.42
1:s:428:ASN:HD22	1:s:431:VAL:HG22	1.85	0.42
1:t:522:LEU:HD12	1:v:435:LEU:HD22	2.01	0.42
1:u:679:ARG:HD3	1:u:683:GLU:OE2	2.20	0.42
1:v:370:GLY:HA2	1:v:371:PRO:HD3	1.81	0.42
1:v:639:VAL:HG12	1:v:656:ILE:HD12	2.01	0.42
1:v:681:ASN:HB2	1:v:682:PRO:HD2	2.01	0.42
1:x:271:ASP:O	1:x:349:CYS:HA	2.19	0.42
1:y:679:ARG:NH1	1:y:683:GLU:HG2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:431:VAL:HG23	1:1:346:HIS:CD2	2.55	0.42
1:z:475:ASN:OD1	1:z:476:LYS:N	2.53	0.42
1:4:679:ARG:HD3	1:4:683:GLU:OE2	2.20	0.42
1:5:428:ASN:HD22	1:5:431:VAL:HG22	1.85	0.42
1:5:469:CYS:HB2	1:7:565:ILE:CD1	2.50	0.42
1:5:681:ASN:HB2	1:5:682:PRO:HD2	2.01	0.42
1:6:445:ASN:HB2	1:7:536:ALA:O	2.19	0.42
1:7:299:LEU:HG	1:7:406:TYR:HB3	2.01	0.42
1:7:679:ARG:NH1	1:7:683:GLU:HG2	2.35	0.42
1:8:639:VAL:HG12	1:8:656:ILE:HD12	2.01	0.42
1:B:462:ASN:ND2	1:J:343:GLY:O	2.51	0.42
1:C:242:TYR:OH	1:C:360:LEU:O	2.36	0.42
1:C:299:LEU:HG	1:C:406:TYR:HB3	2.01	0.42
1:C:425:ARG:HB3	1:b:366:LEU:HD11	2.02	0.42
1:C:536:ALA:O	1:M:445:ASN:HB2	2.19	0.42
1:D:681:ASN:HB2	1:D:682:PRO:HD2	2.01	0.42
1:E:428:ASN:HD22	1:E:431:VAL:HG22	1.85	0.42
1:E:439:ASP:O	1:Q:487:THR:N	2.52	0.42
1:E:475:ASN:OD1	1:E:476:LYS:N	2.52	0.42
1:H:274:ARG:CD	1:H:276:HIS:CE1	3.02	0.42
1:H:565:ILE:CD1	1:W:469:CYS:HB2	2.50	0.42
1:H:681:ASN:HB2	1:H:682:PRO:HD2	2.01	0.42
1:I:274:ARG:HD3	1:I:600:GLN:O	2.20	0.42
1:I:475:ASN:OD1	1:I:476:LYS:N	2.52	0.42
1:I:639:VAL:HG12	1:I:656:ILE:HD12	2.01	0.42
1:I:679:ARG:HD3	1:I:683:GLU:OE2	2.20	0.42
1:J:679:ARG:HD3	1:J:683:GLU:OE2	2.20	0.42
1:K:487:THR:N	1:8:439:ASP:O	2.52	0.42
1:K:536:ALA:O	1:8:445:ASN:HB2	2.19	0.42
1:K:679:ARG:HD3	1:K:683:GLU:OE2	2.20	0.42
1:L:639:VAL:HG12	1:L:656:ILE:HD12	2.01	0.42
1:M:353:PHE:HA	1:M:354:PRO:HD3	1.95	0.42
1:M:679:ARG:HD3	1:M:683:GLU:OE2	2.20	0.42
1:O:418:MET:O	1:O:718:THR:HA	2.19	0.42
1:O:428:ASN:HD22	1:O:431:VAL:HG22	1.85	0.42
1:P:271:ASP:O	1:P:349:CYS:HA	2.19	0.42
1:R:343:GLY:O	1:U:462:ASN:ND2	2.52	0.42
1:R:346:HIS:HD2	1:U:431:VAL:O	2.03	0.42
1:T:522:LEU:HD12	1:l:435:LEU:HD22	2.01	0.42
1:U:428:ASN:HD22	1:U:431:VAL:HG22	1.85	0.42
1:U:606:LYS:HB2	1:U:628:PRO:HG3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:487:THR:N	1:X:439:ASP:O	2.52	0.42
1:W:418:MET:O	1:W:718:THR:HA	2.19	0.42
1:Y:299:LEU:HG	1:Y:406:TYR:HB3	2.01	0.42
1:Z:445:ASN:HB2	1:4:536:ALA:O	2.19	0.42
1:b:679:ARG:NH1	1:b:683:GLU:HG2	2.35	0.42
1:c:439:ASP:O	1:o:487:THR:N	2.52	0.42
1:d:639:VAL:HG12	1:d:656:ILE:HD12	2.01	0.42
1:f:469:CYS:HB2	1:g:565:ILE:CD1	2.50	0.42
1:f:522:LEU:HD12	1:g:435:LEU:HD22	2.01	0.42
1:g:242:TYR:OH	1:g:360:LEU:O	2.36	0.42
1:i:299:LEU:HG	1:i:406:TYR:HB3	2.01	0.42
1:i:439:ASP:O	1:j:487:THR:N	2.53	0.42
1:j:271:ASP:O	1:j:349:CYS:HA	2.19	0.42
1:j:475:ASN:OD1	1:j:476:LYS:N	2.53	0.42
1:j:565:ILE:CD1	1:k:469:CYS:HB2	2.50	0.42
1:j:681:ASN:HB2	1:j:682:PRO:HD2	2.01	0.42
1:k:681:ASN:HB2	1:k:682:PRO:HD2	2.01	0.42
1:l:428:ASN:HD22	1:l:431:VAL:HG22	1.85	0.42
1:o:439:ASP:O	1:p:487:THR:N	2.52	0.42
1:p:679:ARG:HD3	1:p:683:GLU:OE2	2.20	0.42
1:q:346:HIS:HD2	1:s:431:VAL:O	2.03	0.42
1:q:536:ALA:O	1:s:445:ASN:HB2	2.19	0.42
1:r:353:PHE:HA	1:r:354:PRO:HD3	1.94	0.42
1:r:445:ASN:HB2	1:s:536:ALA:O	2.19	0.42
1:r:565:ILE:CD1	1:s:469:CYS:HB2	2.50	0.42
1:s:606:LYS:HB2	1:s:628:PRO:HG3	2.01	0.42
1:t:435:LEU:HD22	1:u:522:LEU:HD12	2.01	0.42
1:t:445:ASN:HB2	1:u:536:ALA:O	2.19	0.42
1:t:606:LYS:HB2	1:t:628:PRO:HG3	2.02	0.42
1:u:274:ARG:HD3	1:u:600:GLN:O	2.20	0.42
1:u:475:ASN:OD1	1:u:476:LYS:N	2.53	0.42
1:v:606:LYS:HB2	1:v:628:PRO:HG3	2.01	0.42
1:w:370:GLY:HA2	1:w:371:PRO:HD3	1.81	0.42
1:w:428:ASN:HD22	1:w:431:VAL:HG22	1.85	0.42
1:w:475:ASN:OD1	1:w:476:LYS:N	2.53	0.42
1:z:274:ARG:CD	1:z:276:HIS:CE1	3.02	0.42
1:1:462:ASN:ND2	1:2:343:GLY:O	2.51	0.42
1:2:271:ASP:O	1:2:349:CYS:HA	2.19	0.42
1:5:565:ILE:CD1	1:6:469:CYS:HB2	2.50	0.42
1:6:679:ARG:NH1	1:6:683:GLU:HG2	2.35	0.42
1:D:418:MET:O	1:D:718:THR:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:469:CYS:HB2	1:P:565:ILE:CD1	2.50	0.42
1:E:435:LEU:HD22	1:Q:522:LEU:HD12	2.01	0.42
1:G:606:LYS:HB2	1:G:628:PRO:HG3	2.02	0.42
1:H:425:ARG:HB3	1:W:366:LEU:HD11	2.02	0.42
1:I:274:ARG:CD	1:I:276:HIS:CE1	3.02	0.42
1:J:271:ASP:O	1:J:349:CYS:HA	2.19	0.42
1:K:274:ARG:HD3	1:K:600:GLN:O	2.20	0.42
1:K:425:ARG:HB3	1:a:366:LEU:HD11	2.02	0.42
1:M:487:THR:N	1:b:439:ASP:O	2.52	0.42
1:M:522:LEU:HD12	1:b:435:LEU:HD22	2.01	0.42
1:N:299:LEU:HG	1:N:406:TYR:HB3	2.01	0.42
1:N:418:MET:O	1:N:718:THR:HA	2.19	0.42
1:N:439:ASP:O	1:P:487:THR:N	2.53	0.42
1:O:435:LEU:HD22	1:m:522:LEU:HD12	2.01	0.42
1:Q:271:ASP:O	1:Q:349:CYS:HA	2.19	0.42
1:Q:418:MET:O	1:Q:718:THR:HA	2.19	0.42
1:R:536:ALA:O	1:U:445:ASN:HB2	2.19	0.42
1:S:445:ASN:HB2	1:U:536:ALA:O	2.19	0.42
1:S:565:ILE:CD1	1:U:469:CYS:HB2	2.50	0.42
1:T:274:ARG:HH11	1:T:276:HIS:CE1	2.34	0.42
1:T:639:VAL:HG12	1:T:656:ILE:HD12	2.01	0.42
1:V:679:ARG:HD3	1:V:683:GLU:OE2	2.20	0.42
1:W:445:ASN:HB2	1:Y:536:ALA:O	2.19	0.42
1:a:639:VAL:HG12	1:a:656:ILE:HD12	2.01	0.42
1:b:639:VAL:HG12	1:b:656:ILE:HD12	2.01	0.42
1:c:299:LEU:HG	1:c:406:TYR:HB3	2.01	0.42
1:d:418:MET:O	1:d:718:THR:HA	2.19	0.42
1:f:366:LEU:HD11	1:g:425:ARG:HB3	2.02	0.42
1:f:439:ASP:O	1:h:487:THR:N	2.52	0.42
1:f:679:ARG:NH1	1:f:683:GLU:HG2	2.35	0.42
1:g:299:LEU:HG	1:g:406:TYR:HB3	2.01	0.42
1:h:353:PHE:HA	1:h:354:PRO:HD3	1.95	0.42
1:h:679:ARG:HD3	1:h:683:GLU:OE2	2.20	0.42
1:i:418:MET:O	1:i:718:THR:HA	2.19	0.42
1:m:274:ARG:CD	1:m:276:HIS:CE1	3.02	0.42
1:m:639:VAL:HG12	1:m:656:ILE:HD12	2.01	0.42
1:n:418:MET:O	1:n:718:THR:HA	2.19	0.42
1:n:639:VAL:HG12	1:n:656:ILE:HD12	2.01	0.42
1:u:639:VAL:HG12	1:u:656:ILE:HD12	2.01	0.42
1:w:343:GLY:O	1:y:462:ASN:ND2	2.51	0.42
1:w:504:ALA:HA	1:w:505:PRO:HA	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:370:GLY:HA2	1:z:371:PRO:HD3	1.81	0.42
1:1:418:MET:O	1:1:718:THR:HA	2.19	0.42
1:1:606:LYS:HB2	1:1:628:PRO:HG3	2.01	0.42
1:2:274:ARG:HD3	1:2:600:GLN:O	2.20	0.42
1:2:418:MET:O	1:2:718:THR:HA	2.19	0.42
1:3:639:VAL:HG12	1:3:656:ILE:HD12	2.01	0.42
1:4:274:ARG:HD3	1:4:600:GLN:O	2.20	0.42
1:5:274:ARG:CD	1:5:276:HIS:CE1	3.02	0.42
1:5:425:ARG:HB3	1:6:366:LEU:HD11	2.02	0.42
1:6:274:ARG:HD3	1:6:600:GLN:O	2.20	0.42
1:6:418:MET:O	1:6:718:THR:HA	2.19	0.42
1:8:370:GLY:HA2	1:8:371:PRO:HD3	1.81	0.42
1:B:271:ASP:O	1:B:349:CYS:HA	2.19	0.42
1:B:418:MET:O	1:B:718:THR:HA	2.20	0.42
1:C:565:ILE:CD1	1:b:469:CYS:HB2	2.50	0.42
1:D:679:ARG:NH1	1:D:683:GLU:HG2	2.35	0.42
1:E:343:GLY:O	1:F:462:ASN:ND2	2.51	0.42
1:F:397:ARG:HD2	1:R:213:GLN:C	2.45	0.42
1:J:428:ASN:HD22	1:J:431:VAL:HG22	1.85	0.42
1:L:276:HIS:HD2	1:L:352:PRO:HB3	1.78	0.42
1:L:370:GLY:HA2	1:L:371:PRO:HD3	1.81	0.42
1:L:681:ASN:HB2	1:L:682:PRO:HD2	2.01	0.42
1:N:274:ARG:HD3	1:N:600:GLN:O	2.20	0.42
1:N:504:ALA:HA	1:N:505:PRO:HA	1.78	0.42
1:N:565:ILE:CD1	1:P:469:CYS:HB2	2.50	0.42
1:O:353:PHE:HA	1:O:354:PRO:HD3	1.95	0.42
1:P:274:ARG:HD3	1:P:600:GLN:O	2.20	0.42
1:R:425:ARG:HB3	1:S:366:LEU:HD11	2.02	0.42
1:T:487:THR:N	1:l:439:ASP:O	2.52	0.42
1:T:679:ARG:NH1	1:T:683:GLU:HG2	2.35	0.42
1:V:271:ASP:O	1:V:349:CYS:HA	2.19	0.42
1:X:681:ASN:HB2	1:X:682:PRO:HD2	2.01	0.42
1:Z:274:ARG:HD3	1:Z:600:GLN:O	2.20	0.42
1:a:606:LYS:HB2	1:a:628:PRO:HG3	2.01	0.42
1:c:639:VAL:HG12	1:c:656:ILE:HD12	2.01	0.42
1:e:299:LEU:HG	1:e:406:TYR:HB3	2.01	0.42
1:f:435:LEU:HD22	1:h:522:LEU:HD12	2.01	0.42
1:g:679:ARG:HD3	1:g:683:GLU:OE2	2.20	0.42
1:h:504:ALA:HA	1:h:505:PRO:HA	1.78	0.42
1:i:565:ILE:CD1	1:j:469:CYS:HB2	2.50	0.42
1:k:418:MET:O	1:k:718:THR:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:439:ASP:O	1:n:487:THR:N	2.52	0.42
1:m:679:ARG:HD3	1:m:683:GLU:OE2	2.20	0.42
1:m:679:ARG:NH1	1:m:683:GLU:HG2	2.35	0.42
1:n:428:ASN:HD22	1:n:431:VAL:HG22	1.85	0.42
1:o:681:ASN:HB2	1:o:682:PRO:HD2	2.01	0.42
1:p:271:ASP:O	1:p:349:CYS:HA	2.19	0.42
1:q:213:GLN:C	1:y:397:ARG:HD2	2.45	0.42
1:q:425:ARG:HB3	1:r:366:LEU:HD11	2.02	0.42
1:u:274:ARG:CD	1:u:276:HIS:CE1	3.02	0.42
1:w:366:LEU:HD11	1:y:425:ARG:HB3	2.02	0.42
1:w:435:LEU:HD22	1:x:522:LEU:HD12	2.01	0.42
1:x:299:LEU:HG	1:x:406:TYR:HB3	2.01	0.42
1:x:679:ARG:HD3	1:x:683:GLU:OE2	2.20	0.42
1:z:276:HIS:HD2	1:z:352:PRO:HB3	1.79	0.42
1:z:522:LEU:HD12	1:2:435:LEU:HD22	2.02	0.42
1:2:428:ASN:HD22	1:2:431:VAL:HG22	1.85	0.42
1:2:679:ARG:NH1	1:2:683:GLU:HG2	2.35	0.42
1:2:679:ARG:HD3	1:2:683:GLU:OE2	2.20	0.42
1:3:366:LEU:HD11	1:4:425:ARG:HB3	2.02	0.42
1:4:271:ASP:O	1:4:349:CYS:HA	2.19	0.42
1:5:431:VAL:O	1:6:346:HIS:HD2	2.03	0.42
1:6:271:ASP:O	1:6:349:CYS:HA	2.19	0.42
1:6:539:VAL:HG21	1:6:545:LEU:HD11	2.02	0.42
1:8:274:ARG:HD3	1:8:600:GLN:O	2.20	0.42
1:A:271:ASP:O	1:A:349:CYS:HA	2.19	0.42
1:B:274:ARG:CD	1:B:276:HIS:CE1	3.02	0.42
1:B:606:LYS:HB2	1:B:628:PRO:HG3	2.01	0.42
1:B:639:VAL:HG12	1:B:656:ILE:HD12	2.01	0.42
1:C:679:ARG:HD3	1:C:683:GLU:OE2	2.20	0.42
1:E:366:LEU:HD11	1:F:425:ARG:HB3	2.02	0.42
1:E:370:GLY:HA2	1:E:371:PRO:HD3	1.81	0.42
1:G:425:ARG:HB3	1:I:366:LEU:HD11	2.02	0.42
1:G:679:ARG:NH1	1:G:683:GLU:HG2	2.35	0.42
1:G:681:ASN:HB2	1:G:682:PRO:HD2	2.01	0.42
1:H:431:VAL:O	1:W:346:HIS:HD2	2.03	0.42
1:J:418:MET:O	1:J:718:THR:HA	2.19	0.42
1:J:679:ARG:NH1	1:J:683:GLU:HG2	2.35	0.42
1:L:274:ARG:HD3	1:L:600:GLN:O	2.20	0.42
1:M:299:LEU:HG	1:M:406:TYR:HB3	2.01	0.42
1:Q:299:LEU:HG	1:Q:406:TYR:HB3	2.01	0.42
1:Q:679:ARG:HD3	1:Q:683:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:274:ARG:CD	1:T:276:HIS:CE1	3.02	0.42
1:T:475:ASN:OD1	1:T:476:LYS:N	2.53	0.42
1:T:539:VAL:HG21	1:T:545:LEU:HD11	2.02	0.42
1:U:274:ARG:HD3	1:U:600:GLN:O	2.20	0.42
1:W:274:ARG:HD3	1:W:600:GLN:O	2.20	0.42
1:Z:522:LEU:HD12	1:3:435:LEU:HD22	2.01	0.42
1:a:435:LEU:HD22	1:8:522:LEU:HD12	2.01	0.42
1:c:271:ASP:O	1:c:349:CYS:HA	2.19	0.42
1:c:565:ILE:CD1	1:o:469:CYS:HB2	2.50	0.42
1:d:428:ASN:HD22	1:d:431:VAL:HG22	1.85	0.42
1:e:274:ARG:HD3	1:e:600:GLN:O	2.20	0.42
1:f:639:VAL:HG12	1:f:656:ILE:HD12	2.01	0.42
1:g:469:CYS:HB2	1:h:565:ILE:CD1	2.50	0.42
1:j:274:ARG:HD3	1:j:600:GLN:O	2.20	0.42
1:j:425:ARG:HB3	1:k:366:LEU:HD11	2.02	0.42
1:k:679:ARG:NH1	1:k:683:GLU:HG2	2.35	0.42
1:l:679:ARG:HD3	1:l:683:GLU:OE2	2.20	0.42
1:m:370:GLY:HA2	1:m:371:PRO:HD3	1.81	0.42
1:m:539:VAL:HG21	1:m:545:LEU:HD11	2.02	0.42
1:n:299:LEU:HG	1:n:406:TYR:HB3	2.01	0.42
1:p:370:GLY:HA2	1:p:371:PRO:HD3	1.81	0.42
1:s:274:ARG:HD3	1:s:600:GLN:O	2.20	0.42
1:t:681:ASN:HB2	1:t:682:PRO:HD2	2.01	0.42
1:x:418:MET:O	1:x:718:THR:HA	2.19	0.42
1:y:428:ASN:HD22	1:y:431:VAL:HG22	1.85	0.42
1:z:428:ASN:HD22	1:z:431:VAL:HG22	1.85	0.42
1:z:679:ARG:HD3	1:z:683:GLU:OE2	2.20	0.42
1:3:606:LYS:HB2	1:3:628:PRO:HG3	2.02	0.42
1:5:439:ASP:O	1:6:487:THR:N	2.53	0.42
1:A:370:GLY:HA2	1:A:371:PRO:HD3	1.81	0.41
1:A:469:CYS:HB2	1:I:565:ILE:CD1	2.50	0.41
1:B:679:ARG:HD3	1:B:683:GLU:OE2	2.20	0.41
1:C:469:CYS:HB2	1:M:565:ILE:CD1	2.50	0.41
1:C:679:ARG:NH1	1:C:683:GLU:HG2	2.35	0.41
1:D:366:LEU:HD11	1:P:425:ARG:HB3	2.02	0.41
1:D:439:ASP:O	1:N:487:THR:N	2.52	0.41
1:G:539:VAL:HG21	1:G:545:LEU:HD11	2.02	0.41
1:G:565:ILE:CD1	1:I:469:CYS:HB2	2.50	0.41
1:H:439:ASP:O	1:W:487:THR:N	2.53	0.41
1:H:475:ASN:OD1	1:H:476:LYS:N	2.52	0.41
1:K:271:ASP:O	1:K:349:CYS:HA	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:428:ASN:HD22	1:L:431:VAL:HG22	1.85	0.41
1:L:539:VAL:HG21	1:L:545:LEU:HD11	2.02	0.41
1:L:679:ARG:HD3	1:L:683:GLU:OE2	2.20	0.41
1:M:428:ASN:HD22	1:M:431:VAL:HG22	1.85	0.41
1:N:271:ASP:O	1:N:349:CYS:HA	2.19	0.41
1:O:274:ARG:HD3	1:O:600:GLN:O	2.20	0.41
1:O:439:ASP:O	1:m:487:THR:N	2.52	0.41
1:O:679:ARG:HD3	1:O:683:GLU:OE2	2.20	0.41
1:S:539:VAL:HG21	1:S:545:LEU:HD11	2.02	0.41
1:T:439:ASP:O	1:d:487:THR:N	2.52	0.41
1:T:679:ARG:HD3	1:T:683:GLU:OE2	2.20	0.41
1:V:606:LYS:HB2	1:V:628:PRO:HG3	2.01	0.41
1:W:539:VAL:HG21	1:W:545:LEU:HD11	2.02	0.41
1:a:274:ARG:CD	1:a:276:HIS:CE1	3.02	0.41
1:a:428:ASN:HD22	1:a:431:VAL:HG22	1.85	0.41
1:c:274:ARG:HD3	1:c:600:GLN:O	2.20	0.41
1:d:539:VAL:HG21	1:d:545:LEU:HD11	2.02	0.41
1:e:271:ASP:O	1:e:349:CYS:HA	2.19	0.41
1:e:639:VAL:HG12	1:e:656:ILE:HD12	2.01	0.41
1:f:539:VAL:HG21	1:f:545:LEU:HD11	2.02	0.41
1:h:299:LEU:HG	1:h:406:TYR:HB3	2.01	0.41
1:i:271:ASP:O	1:i:349:CYS:HA	2.19	0.41
1:i:274:ARG:HD3	1:i:600:GLN:O	2.20	0.41
1:i:481:ASN:HB3	1:k:441:THR:HG21	2.02	0.41
1:l:274:ARG:HD3	1:l:600:GLN:O	2.20	0.41
1:m:274:ARG:HH11	1:m:276:HIS:CE1	2.34	0.41
1:q:428:ASN:HD22	1:q:431:VAL:HG22	1.85	0.41
1:r:539:VAL:HG21	1:r:545:LEU:HD11	2.02	0.41
1:r:681:ASN:HB2	1:r:682:PRO:HD2	2.01	0.41
1:t:425:ARG:HB3	1:u:366:LEU:HD11	2.02	0.41
1:t:679:ARG:NH1	1:t:683:GLU:HG2	2.35	0.41
1:u:606:LYS:HB2	1:u:628:PRO:HG3	2.01	0.41
1:u:679:ARG:NH1	1:u:683:GLU:HG2	2.35	0.41
1:x:274:ARG:HD3	1:x:600:GLN:O	2.20	0.41
1:z:681:ASN:HB2	1:z:682:PRO:HD2	2.01	0.41
1:1:271:ASP:O	1:1:349:CYS:HA	2.19	0.41
1:1:274:ARG:CD	1:1:276:HIS:CE1	3.02	0.41
1:1:681:ASN:HB2	1:1:682:PRO:HD2	2.01	0.41
1:3:536:ALA:O	1:4:445:ASN:HB2	2.20	0.41
1:A:346:HIS:HD2	1:I:431:VAL:O	2.04	0.41
1:B:425:ARG:HB3	1:J:366:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:681:ASN:HB2	1:B:682:PRO:HD2	2.01	0.41
1:C:274:ARG:HD3	1:C:600:GLN:O	2.20	0.41
1:C:353:PHE:HA	1:C:354:PRO:HD3	1.95	0.41
1:C:439:ASP:O	1:b:487:THR:N	2.52	0.41
1:D:247:TYR:CE1	1:D:265:THR:HG23	2.56	0.41
1:D:346:HIS:HD2	1:P:431:VAL:O	2.03	0.41
1:D:441:THR:HG21	1:N:481:ASN:HB3	2.03	0.41
1:D:639:VAL:HG12	1:D:656:ILE:HD12	2.01	0.41
1:E:469:CYS:HB2	1:F:565:ILE:CD1	2.50	0.41
1:F:428:ASN:HD22	1:F:431:VAL:HG22	1.85	0.41
1:F:606:LYS:HB2	1:F:628:PRO:HG3	2.01	0.41
1:H:299:LEU:HG	1:H:406:TYR:HB3	2.01	0.41
1:H:679:ARG:NH1	1:H:683:GLU:HG2	2.35	0.41
1:I:606:LYS:HB2	1:I:628:PRO:HG3	2.01	0.41
1:I:679:ARG:NH1	1:I:683:GLU:HG2	2.35	0.41
1:J:606:LYS:HB2	1:J:628:PRO:HG3	2.01	0.41
1:K:274:ARG:CD	1:K:276:HIS:CE1	3.02	0.41
1:K:445:ASN:HB2	1:a:536:ALA:O	2.20	0.41
1:M:247:TYR:CE1	1:M:265:THR:HG23	2.56	0.41
1:Q:274:ARG:HD3	1:Q:600:GLN:O	2.20	0.41
1:R:346:HIS:CD2	1:U:431:VAL:HG23	2.56	0.41
1:R:428:ASN:HD22	1:R:431:VAL:HG22	1.85	0.41
1:S:353:PHE:HA	1:S:354:PRO:HD3	1.95	0.41
1:S:681:ASN:HB2	1:S:682:PRO:HD2	2.01	0.41
1:T:247:TYR:CE1	1:T:265:THR:HG23	2.56	0.41
1:U:679:ARG:HD3	1:U:683:GLU:OE2	2.20	0.41
1:V:370:GLY:HA2	1:V:371:PRO:HD3	1.81	0.41
1:V:418:MET:O	1:V:718:THR:HA	2.19	0.41
1:W:271:ASP:O	1:W:349:CYS:HA	2.19	0.41
1:X:247:TYR:CE1	1:X:265:THR:HG23	2.56	0.41
1:X:469:CYS:HB2	1:e:565:ILE:CD1	2.50	0.41
1:Z:366:LEU:HD11	1:3:425:ARG:HB3	2.02	0.41
1:a:425:ARG:HB3	1:8:366:LEU:HD11	2.02	0.41
1:c:679:ARG:NH1	1:c:683:GLU:HG2	2.35	0.41
1:d:299:LEU:HG	1:d:406:TYR:HB3	2.01	0.41
1:e:679:ARG:NH1	1:e:683:GLU:HG2	2.35	0.41
1:f:487:THR:N	1:g:439:ASP:O	2.52	0.41
1:f:606:LYS:HB2	1:f:628:PRO:HG3	2.01	0.41
1:g:274:ARG:HD3	1:g:600:GLN:O	2.20	0.41
1:g:428:ASN:HD22	1:g:431:VAL:HG22	1.85	0.41
1:g:539:VAL:HG21	1:g:545:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:428:ASN:HD22	1:h:431:VAL:HG22	1.85	0.41
1:i:431:VAL:O	1:j:346:HIS:HD2	2.03	0.41
1:j:431:VAL:O	1:k:346:HIS:HD2	2.03	0.41
1:j:639:VAL:HG12	1:j:656:ILE:HD12	2.01	0.41
1:k:539:VAL:HG21	1:k:545:LEU:HD11	2.02	0.41
1:k:639:VAL:HG12	1:k:656:ILE:HD12	2.01	0.41
1:l:475:ASN:OD1	1:l:476:LYS:N	2.52	0.41
1:l:681:ASN:HB2	1:l:682:PRO:HD2	2.01	0.41
1:m:247:TYR:CE1	1:m:265:THR:HG23	2.56	0.41
1:m:475:ASN:OD1	1:m:476:LYS:N	2.53	0.41
1:o:247:TYR:CE1	1:o:265:THR:HG23	2.56	0.41
1:o:571:ASN:OD1	1:o:574:VAL:HG12	2.21	0.41
1:q:346:HIS:CD2	1:s:431:VAL:HG23	2.56	0.41
1:q:418:MET:O	1:q:718:THR:HA	2.20	0.41
1:r:475:ASN:OD1	1:r:476:LYS:N	2.53	0.41
1:s:679:ARG:HD3	1:s:683:GLU:OE2	2.20	0.41
1:t:366:LEU:HD11	1:v:425:ARG:HB3	2.02	0.41
1:t:539:VAL:HG21	1:t:545:LEU:HD11	2.02	0.41
1:u:565:ILE:CD1	1:v:469:CYS:HB2	2.50	0.41
1:y:606:LYS:HB2	1:y:628:PRO:HG3	2.01	0.41
1:z:539:VAL:HG21	1:z:545:LEU:HD11	2.02	0.41
1:1:425:ARG:HB3	1:2:366:LEU:HD11	2.02	0.41
1:3:274:ARG:CD	1:3:276:HIS:CE1	3.02	0.41
1:3:299:LEU:HG	1:3:406:TYR:HB3	2.01	0.41
1:3:428:ASN:HD22	1:3:431:VAL:HG22	1.85	0.41
1:5:475:ASN:OD1	1:5:476:LYS:N	2.53	0.41
1:6:681:ASN:HB2	1:6:682:PRO:HD2	2.01	0.41
1:A:425:ARG:HB3	1:G:366:LEU:HD11	2.02	0.41
1:B:299:LEU:HG	1:B:406:TYR:HB3	2.01	0.41
1:B:346:HIS:CD2	1:L:431:VAL:HG23	2.56	0.41
1:C:428:ASN:HD22	1:C:431:VAL:HG22	1.85	0.41
1:C:539:VAL:HG21	1:C:545:LEU:HD11	2.02	0.41
1:C:571:ASN:OD1	1:C:574:VAL:HG12	2.21	0.41
1:D:274:ARG:CD	1:D:276:HIS:CE1	3.02	0.41
1:D:539:VAL:HG21	1:D:545:LEU:HD11	2.02	0.41
1:E:679:ARG:HD3	1:E:683:GLU:OE2	2.20	0.41
1:G:431:VAL:O	1:I:346:HIS:HD2	2.03	0.41
1:K:346:HIS:HD2	1:8:431:VAL:O	2.03	0.41
1:M:271:ASP:O	1:M:349:CYS:HA	2.19	0.41
1:M:679:ARG:NH1	1:M:683:GLU:HG2	2.35	0.41
1:N:431:VAL:O	1:P:346:HIS:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:475:ASN:OD1	1:O:476:LYS:N	2.52	0.41
1:O:571:ASN:OD1	1:O:574:VAL:HG12	2.21	0.41
1:P:639:VAL:HG12	1:P:656:ILE:HD12	2.01	0.41
1:Q:247:TYR:CE1	1:Q:265:THR:HG23	2.56	0.41
1:R:247:TYR:CE1	1:R:265:THR:HG23	2.56	0.41
1:R:274:ARG:HD3	1:R:600:GLN:O	2.20	0.41
1:S:271:ASP:O	1:S:349:CYS:HA	2.19	0.41
1:S:475:ASN:OD1	1:S:476:LYS:N	2.53	0.41
1:U:539:VAL:HG21	1:U:545:LEU:HD11	2.02	0.41
1:W:475:ASN:OD1	1:W:476:LYS:N	2.53	0.41
1:W:681:ASN:HB2	1:W:682:PRO:HD2	2.01	0.41
1:X:571:ASN:OD1	1:X:574:VAL:HG12	2.21	0.41
1:X:639:VAL:HG12	1:X:656:ILE:HD12	2.01	0.41
1:Z:462:ASN:ND2	1:4:343:GLY:O	2.51	0.41
1:a:299:LEU:HG	1:a:406:TYR:HB3	2.01	0.41
1:b:539:VAL:HG21	1:b:545:LEU:HD11	2.02	0.41
1:c:469:CYS:HB2	1:p:565:ILE:CD1	2.50	0.41
1:d:445:ASN:HB2	1:l:536:ALA:O	2.20	0.41
1:d:679:ARG:NH1	1:d:683:GLU:HG2	2.35	0.41
1:e:428:ASN:HD22	1:e:431:VAL:HG22	1.85	0.41
1:g:571:ASN:OD1	1:g:574:VAL:HG12	2.21	0.41
1:g:679:ARG:NH1	1:g:683:GLU:HG2	2.35	0.41
1:h:247:TYR:CE1	1:h:265:THR:HG23	2.56	0.41
1:h:271:ASP:O	1:h:349:CYS:HA	2.19	0.41
1:h:274:ARG:HD3	1:h:600:GLN:O	2.20	0.41
1:i:274:ARG:CD	1:i:276:HIS:CE1	3.02	0.41
1:i:487:THR:N	1:k:439:ASP:O	2.52	0.41
1:k:247:TYR:CE1	1:k:265:THR:HG23	2.56	0.41
1:l:353:PHE:HA	1:l:354:PRO:HD3	1.95	0.41
1:n:679:ARG:NH1	1:n:683:GLU:HG2	2.35	0.41
1:p:606:LYS:HB2	1:p:628:PRO:HG3	2.01	0.41
1:q:274:ARG:HD3	1:q:600:GLN:O	2.20	0.41
1:q:639:VAL:HG12	1:q:656:ILE:HD12	2.01	0.41
1:t:274:ARG:HD3	1:t:600:GLN:O	2.20	0.41
1:t:487:THR:N	1:v:439:ASP:O	2.52	0.41
1:t:565:ILE:CD1	1:u:469:CYS:HB2	2.50	0.41
1:u:431:VAL:O	1:v:346:HIS:HD2	2.04	0.41
1:u:681:ASN:HB2	1:u:682:PRO:HD2	2.01	0.41
1:v:271:ASP:O	1:v:349:CYS:HA	2.20	0.41
1:w:469:CYS:HB2	1:y:565:ILE:CD1	2.50	0.41
1:w:679:ARG:HD3	1:w:683:GLU:OE2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:247:TYR:CE1	1:x:265:THR:HG23	2.56	0.41
1:x:681:ASN:HB2	1:x:682:PRO:HD2	2.01	0.41
1:y:242:TYR:OH	1:y:360:LEU:O	2.36	0.41
1:z:274:ARG:HD3	1:z:600:GLN:O	2.20	0.41
1:1:445:ASN:HB2	1:2:536:ALA:C	2.45	0.41
1:1:639:VAL:HG12	1:1:656:ILE:HD12	2.01	0.41
1:1:679:ARG:HD3	1:1:683:GLU:OE2	2.20	0.41
1:2:247:TYR:CE1	1:2:265:THR:HG23	2.55	0.41
1:2:606:LYS:HB2	1:2:628:PRO:HG3	2.01	0.41
1:4:274:ARG:CD	1:4:276:HIS:CE1	3.02	0.41
1:4:428:ASN:HD22	1:4:431:VAL:HG22	1.85	0.41
1:5:299:LEU:HG	1:5:406:TYR:HB3	2.01	0.41
1:6:431:VAL:O	1:7:346:HIS:HD2	2.03	0.41
1:8:571:ASN:OD1	1:8:574:VAL:HG12	2.21	0.41
1:A:366:LEU:HD11	1:I:425:ARG:HB3	2.02	0.41
1:A:439:ASP:O	1:G:487:THR:N	2.52	0.41
1:B:431:VAL:HG23	1:J:346:HIS:CD2	2.56	0.41
1:B:475:ASN:OD1	1:B:476:LYS:N	2.53	0.41
1:D:679:ARG:HD3	1:D:683:GLU:OE2	2.20	0.41
1:E:565:ILE:CD1	1:Q:469:CYS:HB2	2.50	0.41
1:G:274:ARG:HD3	1:G:600:GLN:O	2.20	0.41
1:J:571:ASN:OD1	1:J:574:VAL:HG12	2.21	0.41
1:K:428:ASN:HD22	1:K:431:VAL:HG22	1.85	0.41
1:K:441:THR:HG21	1:a:481:ASN:HB3	2.03	0.41
1:K:469:CYS:HB2	1:8:565:ILE:CD1	2.50	0.41
1:M:536:ALA:O	1:b:445:ASN:HB2	2.20	0.41
1:N:681:ASN:HB2	1:N:682:PRO:HD2	2.01	0.41
1:O:681:ASN:HB2	1:O:682:PRO:HD2	2.01	0.41
1:P:247:TYR:CE1	1:P:265:THR:HG23	2.56	0.41
1:R:418:MET:O	1:R:718:THR:HA	2.20	0.41
1:R:679:ARG:HD3	1:R:683:GLU:OE2	2.20	0.41
1:T:370:GLY:HA2	1:T:371:PRO:HD3	1.81	0.41
1:U:271:ASP:O	1:U:349:CYS:HA	2.20	0.41
1:V:441:THR:HG21	1:e:481:ASN:HB3	2.03	0.41
1:V:565:ILE:CD1	1:e:469:CYS:HB2	2.50	0.41
1:W:431:VAL:O	1:Y:346:HIS:HD2	2.03	0.41
1:X:276:HIS:HD2	1:X:352:PRO:HB3	1.78	0.41
1:Y:247:TYR:CE1	1:Y:265:THR:HG23	2.56	0.41
1:Z:274:ARG:CD	1:Z:276:HIS:CE1	3.02	0.41
1:Z:428:ASN:HD22	1:Z:431:VAL:HG22	1.85	0.41
1:Z:571:ASN:OD1	1:Z:574:VAL:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:247:TYR:CE1	1:b:265:THR:HG23	2.56	0.41
1:b:606:LYS:HB2	1:b:628:PRO:HG3	2.01	0.41
1:c:481:ASN:HB3	1:p:441:THR:HG21	2.03	0.41
1:c:539:VAL:HG21	1:c:545:LEU:HD11	2.02	0.41
1:d:565:ILE:CD1	1:l:469:CYS:HB2	2.50	0.41
1:e:539:VAL:HG21	1:e:545:LEU:HD11	2.02	0.41
1:f:247:TYR:CE1	1:f:265:THR:HG23	2.56	0.41
1:f:353:PHE:HA	1:f:354:PRO:HD3	1.95	0.41
1:g:276:HIS:HD2	1:g:352:PRO:HB3	1.78	0.41
1:h:679:ARG:NH1	1:h:683:GLU:HG2	2.35	0.41
1:k:274:ARG:HD3	1:k:600:GLN:O	2.20	0.41
1:l:234:THR:HG22	1:l:665:THR:HB	2.03	0.41
1:l:571:ASN:OD1	1:l:574:VAL:HG12	2.21	0.41
1:n:539:VAL:HG21	1:n:545:LEU:HD11	2.02	0.41
1:o:639:VAL:HG12	1:o:656:ILE:HD12	2.01	0.41
1:p:418:MET:O	1:p:718:THR:HA	2.19	0.41
1:q:247:TYR:CE1	1:q:265:THR:HG23	2.56	0.41
1:q:679:ARG:HD3	1:q:683:GLU:OE2	2.20	0.41
1:r:271:ASP:O	1:r:349:CYS:HA	2.19	0.41
1:s:271:ASP:O	1:s:349:CYS:HA	2.20	0.41
1:s:539:VAL:HG21	1:s:545:LEU:HD11	2.02	0.41
1:s:681:ASN:HB2	1:s:682:PRO:HD2	2.01	0.41
1:t:431:VAL:O	1:u:346:HIS:HD2	2.03	0.41
1:t:536:ALA:O	1:v:445:ASN:HB2	2.19	0.41
1:v:274:ARG:HD3	1:v:600:GLN:O	2.20	0.41
1:w:565:ILE:CD1	1:x:469:CYS:HB2	2.50	0.41
1:x:679:ARG:NH1	1:x:683:GLU:HG2	2.35	0.41
1:y:418:MET:O	1:y:718:THR:HA	2.19	0.41
1:y:681:ASN:HB2	1:y:682:PRO:HD2	2.01	0.41
1:1:299:LEU:HG	1:1:406:TYR:HB3	2.01	0.41
1:1:431:VAL:HG23	1:2:346:HIS:CD2	2.56	0.41
1:1:475:ASN:OD1	1:1:476:LYS:N	2.53	0.41
1:2:539:VAL:HG21	1:2:545:LEU:HD11	2.02	0.41
1:2:571:ASN:OD1	1:2:574:VAL:HG12	2.21	0.41
1:3:351:PRO:HD3	1:3:358:PHE:CD2	2.56	0.41
1:3:481:ASN:HB3	1:4:441:THR:HG21	2.03	0.41
1:5:274:ARG:HD3	1:5:600:GLN:O	2.20	0.41
1:5:679:ARG:NH1	1:5:683:GLU:HG2	2.35	0.41
1:6:425:ARG:HB3	1:7:366:LEU:HD11	2.02	0.41
1:7:274:ARG:HH11	1:7:276:HIS:CE1	2.34	0.41
1:8:274:ARG:CD	1:8:276:HIS:CE1	3.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:274:ARG:HD3	1:D:600:GLN:O	2.20	0.41
1:D:431:VAL:HG23	1:N:346:HIS:CD2	2.56	0.41
1:E:346:HIS:HD2	1:F:431:VAL:O	2.04	0.41
1:F:242:TYR:OH	1:F:360:LEU:O	2.36	0.41
1:F:366:LEU:HD11	1:Q:425:ARG:HB3	2.02	0.41
1:F:681:ASN:HB2	1:F:682:PRO:HD2	2.01	0.41
1:G:247:TYR:CE1	1:G:265:THR:HG23	2.56	0.41
1:G:274:ARG:CD	1:G:276:HIS:CE1	3.02	0.41
1:H:247:TYR:CE1	1:H:265:THR:HG23	2.56	0.41
1:H:274:ARG:HD3	1:H:600:GLN:O	2.20	0.41
1:H:418:MET:O	1:H:718:THR:HA	2.19	0.41
1:I:418:MET:O	1:I:718:THR:HA	2.19	0.41
1:I:681:ASN:HB2	1:I:682:PRO:HD2	2.01	0.41
1:J:234:THR:HG22	1:J:665:THR:HB	2.03	0.41
1:J:247:TYR:CE1	1:J:265:THR:HG23	2.56	0.41
1:J:431:VAL:O	1:L:346:HIS:HD2	2.04	0.41
1:J:539:VAL:HG21	1:J:545:LEU:HD11	2.02	0.41
1:K:343:GLY:O	1:8:462:ASN:ND2	2.51	0.41
1:M:274:ARG:HD3	1:M:600:GLN:O	2.20	0.41
1:N:274:ARG:CD	1:N:276:HIS:CE1	3.02	0.41
1:N:571:ASN:OD1	1:N:574:VAL:HG12	2.21	0.41
1:O:346:HIS:HD2	1:n:431:VAL:O	2.04	0.41
1:O:469:CYS:HB2	1:n:565:ILE:CD1	2.50	0.41
1:O:536:ALA:O	1:n:445:ASN:HB2	2.20	0.41
1:P:234:THR:HG22	1:P:665:THR:HB	2.03	0.41
1:Q:571:ASN:OD1	1:Q:574:VAL:HG12	2.21	0.41
1:Q:681:ASN:HB2	1:Q:682:PRO:HD2	2.01	0.41
1:R:639:VAL:HG12	1:R:656:ILE:HD12	2.01	0.41
1:T:234:THR:HG22	1:T:665:THR:HB	2.03	0.41
1:U:681:ASN:HB2	1:U:682:PRO:HD2	2.01	0.41
1:V:274:ARG:HD3	1:V:600:GLN:O	2.20	0.41
1:V:366:LEU:HD11	1:X:425:ARG:HB3	2.02	0.41
1:V:428:ASN:HD22	1:V:431:VAL:HG22	1.85	0.41
1:V:679:ARG:NH1	1:V:683:GLU:HG2	2.35	0.41
1:W:425:ARG:HB3	1:Y:366:LEU:HD11	2.02	0.41
1:Y:274:ARG:HH11	1:Y:276:HIS:CE1	2.34	0.41
1:Z:271:ASP:O	1:Z:349:CYS:HA	2.19	0.41
1:Z:431:VAL:O	1:4:346:HIS:HD2	2.03	0.41
1:Z:565:ILE:CD1	1:4:469:CYS:HB2	2.50	0.41
1:Z:679:ARG:NH1	1:Z:683:GLU:HG2	2.35	0.41
1:Z:681:ASN:HB2	1:Z:682:PRO:HD2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:274:ARG:HD3	1:a:600:GLN:O	2.20	0.41
1:b:428:ASN:HD22	1:b:431:VAL:HG22	1.85	0.41
1:c:428:ASN:HD22	1:c:431:VAL:HG22	1.85	0.41
1:c:475:ASN:OD1	1:c:476:LYS:N	2.53	0.41
1:d:234:THR:HG22	1:d:665:THR:HB	2.03	0.41
1:d:431:VAL:O	1:l:346:HIS:HD2	2.04	0.41
1:e:475:ASN:OD1	1:e:476:LYS:N	2.53	0.41
1:f:234:THR:HG22	1:f:665:THR:HB	2.03	0.41
1:f:481:ASN:HB3	1:g:441:THR:HG21	2.03	0.41
1:g:353:PHE:HA	1:g:354:PRO:HD3	1.95	0.41
1:i:346:HIS:CD2	1:k:431:VAL:HG23	2.56	0.41
1:j:234:THR:HG22	1:j:665:THR:HB	2.03	0.41
1:j:247:TYR:CE1	1:j:265:THR:HG23	2.56	0.41
1:k:274:ARG:CD	1:k:276:HIS:CE1	3.02	0.41
1:k:679:ARG:HD3	1:k:683:GLU:OE2	2.20	0.41
1:n:234:THR:HG22	1:n:665:THR:HB	2.03	0.41
1:o:679:ARG:NH1	1:o:683:GLU:HG2	2.35	0.41
1:p:679:ARG:NH1	1:p:683:GLU:HG2	2.35	0.41
1:t:274:ARG:CD	1:t:276:HIS:CE1	3.02	0.41
1:x:353:PHE:HA	1:x:354:PRO:HD3	1.95	0.41
1:x:571:ASN:OD1	1:x:574:VAL:HG12	2.21	0.41
1:5:351:PRO:HD3	1:5:358:PHE:CD2	2.56	0.41
1:6:475:ASN:OD1	1:6:476:LYS:N	2.53	0.41
1:7:247:TYR:CE1	1:7:265:THR:HG23	2.56	0.41
1:8:428:ASN:HD22	1:8:431:VAL:HG22	1.85	0.41
1:8:679:ARG:NH1	1:8:683:GLU:HG2	2.35	0.41
1:A:274:ARG:HD3	1:A:600:GLN:O	2.20	0.41
1:A:397:ARG:HD2	1:B:213:GLN:C	2.45	0.41
1:A:539:VAL:HG21	1:A:545:LEU:HD11	2.02	0.41
1:C:276:HIS:HD2	1:C:352:PRO:HB3	1.78	0.41
1:C:441:THR:HG21	1:b:481:ASN:HB3	2.03	0.41
1:D:481:ASN:HB3	1:P:441:THR:HG21	2.02	0.41
1:D:565:ILE:CD1	1:N:469:CYS:HB2	2.50	0.41
1:E:425:ARG:HB3	1:Q:366:LEU:HD11	2.02	0.41
1:H:351:PRO:HD3	1:H:358:PHE:CD2	2.56	0.41
1:H:481:ASN:HB3	1:Y:441:THR:HG21	2.02	0.41
1:J:504:ALA:HA	1:J:505:PRO:HA	1.78	0.41
1:O:234:THR:HG22	1:O:665:THR:HB	2.03	0.41
1:O:539:VAL:HG21	1:O:545:LEU:HD11	2.02	0.41
1:Q:679:ARG:NH1	1:Q:683:GLU:HG2	2.35	0.41
1:R:366:LEU:HD11	1:U:425:ARG:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:431:VAL:HG23	1:S:346:HIS:CD2	2.56	0.41
1:T:351:PRO:HD3	1:T:358:PHE:CD2	2.56	0.41
1:T:565:ILE:CD1	1:d:469:CYS:HB2	2.50	0.41
1:T:681:ASN:HB2	1:T:682:PRO:HD2	2.01	0.41
1:U:351:PRO:HD3	1:U:358:PHE:CD2	2.56	0.41
1:V:234:THR:HG22	1:V:665:THR:HB	2.03	0.41
1:V:247:TYR:CE1	1:V:265:THR:HG23	2.56	0.41
1:V:431:VAL:O	1:e:346:HIS:HD2	2.04	0.41
1:Y:353:PHE:HA	1:Y:354:PRO:HD3	1.95	0.41
1:a:351:PRO:HD3	1:a:358:PHE:CD2	2.56	0.41
1:a:441:THR:HG21	1:8:481:ASN:HB3	2.03	0.41
1:a:565:ILE:CD1	1:8:469:CYS:HB2	2.50	0.41
1:a:571:ASN:OD1	1:a:574:VAL:HG12	2.21	0.41
1:b:234:THR:HG22	1:b:665:THR:HB	2.03	0.41
1:c:346:HIS:HD2	1:p:431:VAL:O	2.04	0.41
1:c:366:LEU:HD11	1:p:425:ARG:HB3	2.02	0.41
1:f:445:ASN:HB2	1:h:536:ALA:O	2.20	0.41
1:i:681:ASN:HB2	1:i:682:PRO:HD2	2.01	0.41
1:j:441:THR:HG21	1:k:481:ASN:HB3	2.02	0.41
1:l:539:VAL:HG21	1:l:545:LEU:HD11	2.02	0.41
1:m:234:THR:HG22	1:m:665:THR:HB	2.03	0.41
1:m:351:PRO:HD3	1:m:358:PHE:CD2	2.56	0.41
1:p:234:THR:HG22	1:p:665:THR:HB	2.03	0.41
1:p:247:TYR:CE1	1:p:265:THR:HG23	2.56	0.41
1:p:274:ARG:HD3	1:p:600:GLN:O	2.20	0.41
1:p:299:LEU:HG	1:p:406:TYR:HB3	2.01	0.41
1:p:428:ASN:HD22	1:p:431:VAL:HG22	1.85	0.41
1:q:366:LEU:HD11	1:s:425:ARG:HB3	2.03	0.41
1:s:351:PRO:HD3	1:s:358:PHE:CD2	2.56	0.41
1:t:247:TYR:CE1	1:t:265:THR:HG23	2.56	0.41
1:u:418:MET:O	1:u:718:THR:HA	2.19	0.41
1:u:425:ARG:HB3	1:v:366:LEU:HD11	2.02	0.41
1:u:428:ASN:HD22	1:u:431:VAL:HG22	1.85	0.41
1:w:346:HIS:HD2	1:y:431:VAL:O	2.04	0.41
1:x:428:ASN:HD22	1:x:431:VAL:HG22	1.85	0.41
1:2:504:ALA:HA	1:2:505:PRO:HA	1.78	0.41
1:3:274:ARG:HD3	1:3:600:GLN:O	2.20	0.41
1:3:571:ASN:OD1	1:3:574:VAL:HG12	2.21	0.41
1:5:247:TYR:CE1	1:5:265:THR:HG23	2.56	0.41
1:5:418:MET:O	1:5:718:THR:HA	2.19	0.41
1:7:370:GLY:HA2	1:7:371:PRO:HD3	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:271:ASP:O	1:8:349:CYS:HA	2.19	0.41
1:8:681:ASN:HB2	1:8:682:PRO:HD2	2.01	0.41
1:A:247:TYR:CE1	1:A:265:THR:HG23	2.56	0.41
1:A:431:VAL:O	1:G:346:HIS:HD2	2.04	0.41
1:A:445:ASN:HB2	1:G:536:ALA:O	2.20	0.41
1:B:366:LEU:HD11	1:L:425:ARG:HB3	2.03	0.41
1:B:445:ASN:HB2	1:J:536:ALA:C	2.45	0.41
1:B:469:CYS:HB2	1:L:565:ILE:CD1	2.51	0.41
1:C:234:THR:HG22	1:C:665:THR:HB	2.03	0.41
1:C:247:TYR:CE1	1:C:265:THR:HG23	2.56	0.41
1:D:431:VAL:O	1:N:346:HIS:HD2	2.03	0.41
1:F:418:MET:O	1:F:718:THR:HA	2.19	0.41
1:F:539:VAL:HG21	1:F:545:LEU:HD11	2.02	0.41
1:G:462:ASN:ND2	1:I:343:GLY:O	2.51	0.41
1:G:504:ALA:HA	1:G:505:PRO:HA	1.78	0.41
1:J:351:PRO:HD3	1:J:358:PHE:CD2	2.56	0.41
1:K:679:ARG:NH1	1:K:683:GLU:HG2	2.35	0.41
1:L:247:TYR:CE1	1:L:265:THR:HG23	2.56	0.41
1:L:606:LYS:HB2	1:L:628:PRO:HG3	2.01	0.41
1:M:265:THR:HG22	1:M:267:TRP:HD1	1.86	0.41
1:M:606:LYS:HB2	1:M:628:PRO:HG3	2.02	0.41
1:M:681:ASN:HB2	1:M:682:PRO:HD2	2.01	0.41
1:N:247:TYR:CE1	1:N:265:THR:HG23	2.56	0.41
1:N:351:PRO:HD3	1:N:358:PHE:CD2	2.56	0.41
1:P:428:ASN:HD22	1:P:431:VAL:HG22	1.85	0.41
1:Q:428:ASN:HD22	1:Q:431:VAL:HG22	1.85	0.41
1:Q:606:LYS:HB2	1:Q:628:PRO:HG3	2.01	0.41
1:R:445:ASN:HB2	1:S:536:ALA:C	2.45	0.41
1:R:487:THR:N	1:U:439:ASP:O	2.54	0.41
1:T:265:THR:HG22	1:T:267:TRP:HD1	1.86	0.41
1:T:346:HIS:CD2	1:I:431:VAL:HG23	2.56	0.41
1:W:606:LYS:HB2	1:W:628:PRO:HG3	2.01	0.41
1:X:299:LEU:HG	1:X:406:TYR:HB3	2.01	0.41
1:X:679:ARG:NH1	1:X:683:GLU:HG2	2.35	0.41
1:Y:370:GLY:HA2	1:Y:371:PRO:HD3	1.81	0.41
1:Z:247:TYR:CE1	1:Z:265:THR:HG23	2.56	0.41
1:Z:469:CYS:HB2	1:3:565:ILE:CD1	2.50	0.41
1:Z:481:ASN:HB3	1:3:441:THR:HG21	2.03	0.41
1:a:681:ASN:HB2	1:a:682:PRO:HD2	2.01	0.41
1:b:299:LEU:HG	1:b:406:TYR:HB3	2.01	0.41
1:c:247:TYR:CE1	1:c:265:THR:HG23	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:274:ARG:HD3	1:d:600:GLN:O	2.20	0.41
1:d:679:ARG:HD3	1:d:683:GLU:OE2	2.20	0.41
1:e:351:PRO:HD3	1:e:358:PHE:CD2	2.56	0.41
1:f:428:ASN:HD22	1:f:431:VAL:HG22	1.85	0.41
1:g:247:TYR:CE1	1:g:265:THR:HG23	2.56	0.41
1:h:265:THR:HG22	1:h:267:TRP:HD1	1.86	0.41
1:h:681:ASN:HB2	1:h:682:PRO:HD2	2.01	0.41
1:i:346:HIS:HD2	1:k:431:VAL:O	2.03	0.41
1:i:571:ASN:OD1	1:i:574:VAL:HG12	2.21	0.41
1:m:274:ARG:HD3	1:m:600:GLN:O	2.20	0.41
1:m:565:ILE:CD1	1:n:469:CYS:HB2	2.50	0.41
1:m:681:ASN:HB2	1:m:682:PRO:HD2	2.01	0.41
1:o:234:THR:HG22	1:o:665:THR:HB	2.03	0.41
1:q:431:VAL:HG23	1:r:346:HIS:CD2	2.56	0.41
1:q:487:THR:N	1:s:439:ASP:O	2.54	0.41
1:t:428:ASN:HD22	1:t:431:VAL:HG22	1.85	0.41
1:t:462:ASN:ND2	1:u:343:GLY:O	2.51	0.41
1:v:397:ARG:HD2	1:l:213:GLN:C	2.45	0.41
1:v:539:VAL:HG21	1:v:545:LEU:HD11	2.02	0.41
1:w:425:ARG:HB3	1:x:366:LEU:HD11	2.02	0.41
1:w:571:ASN:OD1	1:w:574:VAL:HG12	2.21	0.41
1:x:425:ARG:HB3	1:y:366:LEU:HD11	2.02	0.41
1:x:606:LYS:HB2	1:x:628:PRO:HG3	2.01	0.41
1:3:539:VAL:HG21	1:3:545:LEU:HD11	2.02	0.41
1:5:481:ASN:HB3	1:7:441:THR:HG21	2.02	0.41
1:6:428:ASN:HD22	1:6:431:VAL:HG22	1.85	0.41
1:6:606:LYS:HB2	1:6:628:PRO:HG3	2.01	0.41
1:8:247:TYR:CE1	1:8:265:THR:HG23	2.56	0.41
1:A:265:THR:HG22	1:A:267:TRP:HD1	1.86	0.41
1:B:370:GLY:HA2	1:B:371:PRO:HD3	1.81	0.41
1:C:346:HIS:HD2	1:M:431:VAL:O	2.03	0.41
1:C:606:LYS:HB2	1:C:628:PRO:HG3	2.01	0.41
1:D:234:THR:HG22	1:D:665:THR:HB	2.03	0.41
1:D:265:THR:HG22	1:D:267:TRP:HD1	1.86	0.41
1:D:351:PRO:HD3	1:D:358:PHE:CD2	2.56	0.41
1:E:571:ASN:OD1	1:E:574:VAL:HG12	2.21	0.41
1:F:271:ASP:O	1:F:349:CYS:HA	2.19	0.41
1:G:425:ARG:HD3	1:G:425:ARG:HA	1.93	0.41
1:G:428:ASN:HD22	1:G:431:VAL:HG22	1.85	0.41
1:I:428:ASN:HD22	1:I:431:VAL:HG22	1.85	0.41
1:K:439:ASP:O	1:a:487:THR:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:481:ASN:HB3	1:8:441:THR:HG21	2.03	0.41
1:M:346:HIS:CD2	1:b:431:VAL:HG23	2.56	0.41
1:O:242:TYR:OH	1:O:360:LEU:O	2.36	0.41
1:O:346:HIS:CD2	1:n:431:VAL:HG23	2.56	0.41
1:O:431:VAL:HG23	1:m:346:HIS:CD2	2.56	0.41
1:Q:274:ARG:CD	1:Q:276:HIS:CE1	3.02	0.41
1:R:265:THR:HG22	1:R:267:TRP:HD1	1.86	0.41
1:T:274:ARG:HD3	1:T:600:GLN:O	2.20	0.41
1:T:366:LEU:HD11	1:l:425:ARG:HB3	2.02	0.41
1:U:247:TYR:CE1	1:U:265:THR:HG23	2.56	0.41
1:V:299:LEU:HG	1:V:406:TYR:HB3	2.01	0.41
1:V:346:HIS:CD2	1:X:431:VAL:HG23	2.56	0.41
1:V:425:ARG:HB3	1:e:366:LEU:HD11	2.02	0.41
1:V:435:LEU:HD22	1:e:522:LEU:HD12	2.01	0.41
1:W:428:ASN:HD22	1:W:431:VAL:HG22	1.85	0.41
1:W:565:ILE:CD1	1:Y:469:CYS:HB2	2.50	0.41
1:X:234:THR:HG22	1:X:665:THR:HB	2.03	0.41
1:X:351:PRO:HD3	1:X:358:PHE:CD2	2.56	0.41
1:X:606:LYS:HB2	1:X:628:PRO:HG3	2.02	0.41
1:Y:681:ASN:HB2	1:Y:682:PRO:HD2	2.01	0.41
1:Z:441:THR:HG21	1:4:481:ASN:HB3	2.03	0.41
1:a:247:TYR:CE1	1:a:265:THR:HG23	2.56	0.41
1:a:504:ALA:HA	1:a:505:PRO:HA	1.78	0.41
1:a:539:VAL:HG21	1:a:545:LEU:HD11	2.02	0.41
1:b:418:MET:O	1:b:718:THR:HA	2.19	0.41
1:c:351:PRO:HD3	1:c:358:PHE:CD2	2.56	0.41
1:c:431:VAL:HG23	1:o:346:HIS:CD2	2.56	0.41
1:c:522:LEU:HD12	1:p:435:LEU:HD22	2.01	0.41
1:d:242:TYR:OH	1:d:360:LEU:O	2.36	0.41
1:e:247:TYR:CE1	1:e:265:THR:HG23	2.56	0.41
1:f:274:ARG:HD3	1:f:600:GLN:O	2.20	0.41
1:f:299:LEU:HG	1:f:406:TYR:HB3	2.01	0.41
1:f:431:VAL:HG23	1:h:346:HIS:CD2	2.56	0.41
1:g:234:THR:HG22	1:g:665:THR:HB	2.03	0.41
1:i:247:TYR:CE1	1:i:265:THR:HG23	2.56	0.41
1:i:351:PRO:HD3	1:i:358:PHE:CD2	2.56	0.41
1:i:469:CYS:HB2	1:k:565:ILE:CD1	2.50	0.41
1:j:428:ASN:HD22	1:j:431:VAL:HG22	1.85	0.41
1:k:265:THR:HG22	1:k:267:TRP:HD1	1.86	0.41
1:k:351:PRO:HD3	1:k:358:PHE:CD2	2.56	0.41
1:m:265:THR:HG22	1:m:267:TRP:HD1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:247:TYR:CE1	1:n:265:THR:HG23	2.56	0.41
1:n:274:ARG:HD3	1:n:600:GLN:O	2.20	0.41
1:n:571:ASN:OD1	1:n:574:VAL:HG12	2.21	0.41
1:o:299:LEU:HG	1:o:406:TYR:HB3	2.01	0.41
1:o:425:ARG:HB3	1:p:366:LEU:HD11	2.02	0.41
1:o:462:ASN:ND2	1:p:343:GLY:O	2.51	0.41
1:q:265:THR:HG22	1:q:267:TRP:HD1	1.86	0.41
1:s:265:THR:HG22	1:s:267:TRP:HD1	1.86	0.41
1:t:346:HIS:HD2	1:v:431:VAL:O	2.04	0.41
1:u:571:ASN:OD1	1:u:574:VAL:HG12	2.21	0.41
1:v:247:TYR:CE1	1:v:265:THR:HG23	2.56	0.41
1:v:265:THR:HG22	1:v:267:TRP:HD1	1.86	0.41
1:y:271:ASP:O	1:y:349:CYS:HA	2.19	0.41
1:z:242:TYR:OH	1:z:360:LEU:O	2.36	0.41
1:z:247:TYR:CE1	1:z:265:THR:HG23	2.56	0.41
1:z:606:LYS:HB2	1:z:628:PRO:HG3	2.01	0.41
1:1:351:PRO:HD3	1:1:358:PHE:CD2	2.56	0.41
1:2:234:THR:HG22	1:2:665:THR:HB	2.03	0.41
1:2:351:PRO:HD3	1:2:358:PHE:CD2	2.56	0.41
1:3:234:THR:HG22	1:3:665:THR:HB	2.03	0.41
1:3:247:TYR:CE1	1:3:265:THR:HG23	2.56	0.41
1:3:681:ASN:HB2	1:3:682:PRO:HD2	2.01	0.41
1:6:565:ILE:CD1	1:7:469:CYS:HB2	2.50	0.41
1:A:234:THR:HG22	1:A:665:THR:HB	2.03	0.41
1:A:431:VAL:HG23	1:G:346:HIS:CD2	2.56	0.41
1:B:346:HIS:HD2	1:L:431:VAL:O	2.03	0.41
1:B:351:PRO:HD3	1:B:358:PHE:CD2	2.56	0.41
1:C:366:LEU:HD11	1:M:425:ARG:HB3	2.02	0.41
1:C:681:ASN:HB2	1:C:682:PRO:HD2	2.01	0.41
1:D:299:LEU:HG	1:D:406:TYR:HB3	2.01	0.41
1:E:431:VAL:O	1:Q:346:HIS:HD2	2.03	0.41
1:E:441:THR:HG21	1:Q:481:ASN:HB3	2.03	0.41
1:F:234:THR:HG22	1:F:665:THR:HB	2.03	0.41
1:F:351:PRO:HD3	1:F:358:PHE:CD2	2.56	0.41
1:F:571:ASN:OD1	1:F:574:VAL:HG12	2.21	0.41
1:F:679:ARG:HD3	1:F:683:GLU:OE2	2.20	0.41
1:H:431:VAL:HG23	1:W:346:HIS:CD2	2.56	0.41
1:H:441:THR:HG21	1:W:481:ASN:HB3	2.02	0.41
1:I:351:PRO:HD3	1:I:358:PHE:CD2	2.56	0.41
1:I:539:VAL:HG21	1:I:545:LEU:HD11	2.02	0.41
1:I:571:ASN:OD1	1:I:574:VAL:HG12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:274:ARG:HH11	1:J:276:HIS:CE1	2.34	0.41
1:J:565:ILE:CD1	1:L:469:CYS:HB2	2.50	0.41
1:K:247:TYR:CE1	1:K:265:THR:HG23	2.56	0.41
1:K:431:VAL:HG23	1:a:346:HIS:CD2	2.56	0.41
1:K:565:ILE:CD1	1:a:469:CYS:HB2	2.50	0.41
1:K:571:ASN:OD1	1:K:574:VAL:HG12	2.21	0.41
1:M:343:GLY:O	1:b:462:ASN:ND2	2.51	0.41
1:M:469:CYS:HB2	1:b:565:ILE:CD1	2.50	0.41
1:M:571:ASN:OD1	1:M:574:VAL:HG12	2.21	0.41
1:N:431:VAL:HG23	1:P:346:HIS:CD2	2.56	0.41
1:O:370:GLY:HA2	1:O:371:PRO:HD3	1.81	0.41
1:O:425:ARG:HB3	1:m:366:LEU:HD11	2.02	0.41
1:Q:353:PHE:HA	1:Q:354:PRO:HD3	1.95	0.41
1:R:234:THR:HG22	1:R:665:THR:HB	2.03	0.41
1:R:469:CYS:HB2	1:U:565:ILE:CD1	2.51	0.41
1:S:229:VAL:CG1	1:S:670:TRP:HB2	2.51	0.41
1:S:234:THR:HG22	1:S:665:THR:HB	2.03	0.41
1:S:351:PRO:HD3	1:S:358:PHE:CD2	2.56	0.41
1:U:265:THR:HG22	1:U:267:TRP:HD1	1.86	0.41
1:V:343:GLY:O	1:X:462:ASN:ND2	2.51	0.41
1:V:481:ASN:HB3	1:X:441:THR:HG21	2.03	0.41
1:W:571:ASN:OD1	1:W:574:VAL:HG12	2.21	0.41
1:X:274:ARG:HD3	1:X:600:GLN:O	2.20	0.41
1:X:274:ARG:CD	1:X:276:HIS:CE1	3.02	0.41
1:X:346:HIS:CD2	1:e:431:VAL:HG23	2.56	0.41
1:X:346:HIS:HD2	1:e:431:VAL:O	2.04	0.41
1:Y:229:VAL:CG1	1:Y:670:TRP:HB2	2.51	0.41
1:Y:351:PRO:HD3	1:Y:358:PHE:CD2	2.56	0.41
1:Y:571:ASN:OD1	1:Y:574:VAL:HG12	2.21	0.41
1:a:234:THR:HG22	1:a:665:THR:HB	2.03	0.41
1:b:229:VAL:CG1	1:b:670:TRP:HB2	2.51	0.41
1:b:265:THR:HG22	1:b:267:TRP:HD1	1.86	0.41
1:b:274:ARG:HD3	1:b:600:GLN:O	2.20	0.41
1:b:353:PHE:HA	1:b:354:PRO:HD3	1.95	0.41
1:c:571:ASN:OD1	1:c:574:VAL:HG12	2.21	0.41
1:d:247:TYR:CE1	1:d:265:THR:HG23	2.56	0.41
1:d:431:VAL:HG23	1:l:346:HIS:CD2	2.56	0.41
1:d:571:ASN:OD1	1:d:574:VAL:HG12	2.21	0.41
1:d:606:LYS:HB2	1:d:628:PRO:HG3	2.01	0.41
1:f:229:VAL:CG1	1:f:670:TRP:HB2	2.51	0.41
1:f:265:THR:HG22	1:f:267:TRP:HD1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:418:MET:O	1:f:718:THR:HA	2.19	0.41
1:f:462:ASN:ND2	1:h:343:GLY:O	2.51	0.41
1:f:565:ILE:CD1	1:h:469:CYS:HB2	2.50	0.41
1:g:346:HIS:HD2	1:h:431:VAL:O	2.03	0.41
1:g:366:LEU:HD11	1:h:425:ARG:HB3	2.02	0.41
1:g:606:LYS:HB2	1:g:628:PRO:HG3	2.01	0.41
1:g:681:ASN:HB2	1:g:682:PRO:HD2	2.01	0.41
1:h:571:ASN:OD1	1:h:574:VAL:HG12	2.21	0.41
1:h:606:LYS:HB2	1:h:628:PRO:HG3	2.02	0.41
1:i:431:VAL:HG23	1:j:346:HIS:CD2	2.56	0.41
1:k:234:THR:HG22	1:k:665:THR:HB	2.03	0.41
1:k:299:LEU:HG	1:k:406:TYR:HB3	2.01	0.41
1:l:242:TYR:OH	1:l:360:LEU:O	2.36	0.41
1:n:242:TYR:OH	1:n:360:LEU:O	2.36	0.41
1:n:679:ARG:HD3	1:n:683:GLU:OE2	2.20	0.41
1:o:274:ARG:HD3	1:o:600:GLN:O	2.20	0.41
1:o:274:ARG:CD	1:o:276:HIS:CE1	3.02	0.41
1:o:276:HIS:HD2	1:o:352:PRO:HB3	1.78	0.41
1:o:351:PRO:HD3	1:o:358:PHE:CD2	2.56	0.41
1:o:431:VAL:HG23	1:p:346:HIS:CD2	2.56	0.41
1:o:441:THR:HG21	1:p:481:ASN:HB3	2.03	0.41
1:o:606:LYS:HB2	1:o:628:PRO:HG3	2.02	0.41
1:q:234:THR:HG22	1:q:665:THR:HB	2.03	0.41
1:q:469:CYS:HB2	1:s:565:ILE:CD1	2.51	0.41
1:r:234:THR:HG22	1:r:665:THR:HB	2.03	0.41
1:r:242:TYR:OH	1:r:360:LEU:O	2.36	0.41
1:r:351:PRO:HD3	1:r:358:PHE:CD2	2.56	0.41
1:r:428:ASN:HD22	1:r:431:VAL:HG22	1.85	0.41
1:s:247:TYR:CE1	1:s:265:THR:HG23	2.55	0.41
1:t:346:HIS:CD2	1:v:431:VAL:HG23	2.56	0.41
1:u:351:PRO:HD3	1:u:358:PHE:CD2	2.56	0.41
1:u:431:VAL:HG23	1:v:346:HIS:CD2	2.56	0.41
1:u:539:VAL:HG21	1:u:545:LEU:HD11	2.02	0.41
1:v:378:LEU:HD12	1:l:694:ALA:HA	2.03	0.41
1:w:351:PRO:HD3	1:w:358:PHE:CD2	2.56	0.41
1:w:431:VAL:O	1:x:346:HIS:HD2	2.03	0.41
1:w:441:THR:HG21	1:x:481:ASN:HB3	2.03	0.41
1:x:274:ARG:CD	1:x:276:HIS:CE1	3.02	0.41
1:x:441:THR:HG21	1:y:481:ASN:HB3	2.03	0.41
1:y:234:THR:HG22	1:y:665:THR:HB	2.03	0.41
1:y:539:VAL:HG21	1:y:545:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:679:ARG:HD3	1:y:683:GLU:OE2	2.20	0.41
1:z:274:ARG:HH11	1:z:276:HIS:CE1	2.34	0.41
1:z:481:ASN:HB3	1:2:441:THR:HG21	2.02	0.41
1:z:571:ASN:OD1	1:z:574:VAL:HG12	2.20	0.41
1:2:242:TYR:OH	1:2:360:LEU:O	2.36	0.41
1:2:274:ARG:HH11	1:2:276:HIS:CE1	2.34	0.41
1:3:346:HIS:CD2	1:4:431:VAL:HG23	2.56	0.41
1:3:469:CYS:HB2	1:4:565:ILE:CD1	2.50	0.41
1:3:487:THR:N	1:4:439:ASP:O	2.52	0.41
1:3:504:ALA:HA	1:3:505:PRO:HA	1.78	0.41
1:4:247:TYR:CE1	1:4:265:THR:HG23	2.56	0.41
1:4:571:ASN:OD1	1:4:574:VAL:HG12	2.21	0.41
1:4:679:ARG:NH1	1:4:683:GLU:HG2	2.35	0.41
1:5:366:LEU:HD11	1:7:425:ARG:HB3	2.02	0.41
1:5:431:VAL:HG23	1:6:346:HIS:CD2	2.56	0.41
1:5:441:THR:HG21	1:6:481:ASN:HB3	2.02	0.41
1:6:571:ASN:OD1	1:6:574:VAL:HG12	2.21	0.41
1:7:229:VAL:CG1	1:7:670:TRP:HB2	2.51	0.41
1:7:351:PRO:HD3	1:7:358:PHE:CD2	2.56	0.41
1:7:539:VAL:HG21	1:7:545:LEU:HD11	2.02	0.41
1:7:681:ASN:HB2	1:7:682:PRO:HD2	2.01	0.41
1:A:346:HIS:CD2	1:I:431:VAL:HG23	2.56	0.41
1:D:420:ASN:HB3	1:D:720:THR:HA	2.03	0.41
1:D:697:GLN:HG2	1:D:709:ASP:OD2	2.22	0.41
1:E:274:ARG:HH11	1:E:276:HIS:CE1	2.34	0.41
1:E:346:HIS:CD2	1:F:431:VAL:HG23	2.56	0.41
1:E:606:LYS:HB2	1:E:628:PRO:HG3	2.02	0.41
1:F:481:ASN:HB3	1:Q:441:THR:HG21	2.03	0.41
1:G:351:PRO:HD3	1:G:358:PHE:CD2	2.56	0.41
1:H:229:VAL:CG1	1:H:670:TRP:HB2	2.51	0.41
1:H:366:LEU:HD11	1:Y:425:ARG:HB3	2.02	0.41
1:H:571:ASN:OD1	1:H:574:VAL:HG12	2.21	0.41
1:J:229:VAL:CG1	1:J:670:TRP:HB2	2.51	0.41
1:K:265:THR:HG22	1:K:267:TRP:HD1	1.86	0.41
1:L:242:TYR:OH	1:L:360:LEU:O	2.36	0.41
1:L:274:ARG:HH11	1:L:276:HIS:CE1	2.34	0.41
1:L:420:ASN:HB3	1:L:720:THR:HA	2.03	0.41
1:M:366:LEU:HD11	1:b:425:ARG:HB3	2.02	0.41
1:N:265:THR:HG22	1:N:267:TRP:HD1	1.86	0.41
1:O:247:TYR:CE1	1:O:265:THR:HG23	2.56	0.41
1:P:265:THR:HG22	1:P:267:TRP:HD1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:351:PRO:HD3	1:Q:358:PHE:CD2	2.56	0.41
1:S:428:ASN:HD22	1:S:431:VAL:HG22	1.85	0.41
1:W:247:TYR:CE1	1:W:265:THR:HG23	2.56	0.41
1:W:441:THR:HG21	1:Y:481:ASN:HB3	2.03	0.41
1:X:229:VAL:CG1	1:X:670:TRP:HB2	2.51	0.41
1:Y:539:VAL:HG21	1:Y:545:LEU:HD11	2.02	0.41
1:Z:346:HIS:CD2	1:3:431:VAL:HG23	2.56	0.41
1:Z:351:PRO:HD3	1:Z:358:PHE:CD2	2.56	0.41
1:a:431:VAL:HG23	1:8:346:HIS:CD2	2.56	0.41
1:b:697:GLN:HG2	1:b:709:ASP:OD2	2.21	0.41
1:d:229:VAL:CG1	1:d:670:TRP:HB2	2.51	0.41
1:d:265:THR:HG22	1:d:267:TRP:HD1	1.86	0.41
1:e:420:ASN:HB3	1:e:720:THR:HA	2.04	0.41
1:e:571:ASN:OD1	1:e:574:VAL:HG12	2.21	0.41
1:f:697:GLN:HG2	1:f:709:ASP:OD2	2.21	0.41
1:h:242:TYR:OH	1:h:360:LEU:O	2.36	0.41
1:h:539:VAL:HG21	1:h:545:LEU:HD11	2.02	0.41
1:i:265:THR:HG22	1:i:267:TRP:HD1	1.86	0.41
1:k:420:ASN:HB3	1:k:720:THR:HA	2.03	0.41
1:k:697:GLN:HG2	1:k:709:ASP:OD2	2.22	0.41
1:m:441:THR:HG21	1:n:481:ASN:HB3	2.03	0.41
1:n:229:VAL:CG1	1:n:670:TRP:HB2	2.51	0.41
1:n:265:THR:HG22	1:n:267:TRP:HD1	1.86	0.41
1:n:606:LYS:HB2	1:n:628:PRO:HG3	2.01	0.41
1:o:229:VAL:CG1	1:o:670:TRP:HB2	2.51	0.41
1:o:697:GLN:HG2	1:o:709:ASP:OD2	2.21	0.41
1:p:229:VAL:CG1	1:p:670:TRP:HB2	2.51	0.41
1:p:265:THR:HG22	1:p:267:TRP:HD1	1.86	0.41
1:q:229:VAL:CG1	1:q:670:TRP:HB2	2.51	0.41
1:r:229:VAL:CG1	1:r:670:TRP:HB2	2.51	0.41
1:t:351:PRO:HD3	1:t:358:PHE:CD2	2.56	0.41
1:v:234:THR:HG22	1:v:665:THR:HB	2.03	0.41
1:x:351:PRO:HD3	1:x:358:PHE:CD2	2.56	0.41
1:y:351:PRO:HD3	1:y:358:PHE:CD2	2.56	0.41
1:y:571:ASN:OD1	1:y:574:VAL:HG12	2.21	0.41
1:z:420:ASN:HB3	1:z:720:THR:HA	2.03	0.41
1:2:229:VAL:CG1	1:2:670:TRP:HB2	2.51	0.41
1:5:343:GLY:O	1:7:462:ASN:ND2	2.52	0.41
1:5:571:ASN:OD1	1:5:574:VAL:HG12	2.21	0.41
1:6:247:TYR:CE1	1:6:265:THR:HG23	2.56	0.41
1:6:441:THR:HG21	1:7:481:ASN:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:274:ARG:HD3	1:7:600:GLN:O	2.20	0.41
1:8:265:THR:HG22	1:8:267:TRP:HD1	1.86	0.41
1:A:378:LEU:HD12	1:B:694:ALA:HA	2.03	0.40
1:A:565:ILE:CD1	1:G:469:CYS:HB2	2.50	0.40
1:A:697:GLN:HG2	1:A:709:ASP:OD2	2.21	0.40
1:B:378:LEU:HD12	1:C:694:ALA:HA	2.03	0.40
1:B:487:THR:N	1:L:439:ASP:O	2.54	0.40
1:B:539:VAL:HG21	1:B:545:LEU:HD11	2.02	0.40
1:D:229:VAL:CG1	1:D:670:TRP:HB2	2.51	0.40
1:E:274:ARG:HD3	1:E:600:GLN:O	2.20	0.40
1:E:351:PRO:HD3	1:E:358:PHE:CD2	2.56	0.40
1:F:247:TYR:CE1	1:F:265:THR:HG23	2.56	0.40
1:G:234:THR:HG22	1:G:665:THR:HB	2.03	0.40
1:J:242:TYR:OH	1:J:360:LEU:O	2.36	0.40
1:K:229:VAL:CG1	1:K:670:TRP:HB2	2.51	0.40
1:K:539:VAL:HG21	1:K:545:LEU:HD11	2.02	0.40
1:L:571:ASN:OD1	1:L:574:VAL:HG12	2.21	0.40
1:M:346:HIS:HD2	1:b:431:VAL:O	2.04	0.40
1:M:539:VAL:HG21	1:M:545:LEU:HD11	2.02	0.40
1:O:539:VAL:HA	1:O:540:PRO:HD3	1.98	0.40
1:P:351:PRO:HD3	1:P:358:PHE:CD2	2.56	0.40
1:Q:229:VAL:CG1	1:Q:670:TRP:HB2	2.51	0.40
1:R:229:VAL:CG1	1:R:670:TRP:HB2	2.51	0.40
1:S:242:TYR:OH	1:S:360:LEU:O	2.36	0.40
1:S:247:TYR:CE1	1:S:265:THR:HG23	2.56	0.40
1:S:425:ARG:HB3	1:U:366:LEU:HD11	2.02	0.40
1:S:431:VAL:O	1:U:346:HIS:HD2	2.04	0.40
1:T:441:THR:HG21	1:d:481:ASN:HB3	2.03	0.40
1:V:229:VAL:CG1	1:V:670:TRP:HB2	2.51	0.40
1:V:265:THR:HG22	1:V:267:TRP:HD1	1.86	0.40
1:W:234:THR:HG22	1:W:665:THR:HB	2.03	0.40
1:W:370:GLY:HA2	1:W:371:PRO:HD3	1.81	0.40
1:X:697:GLN:HG2	1:X:709:ASP:OD2	2.21	0.40
1:a:229:VAL:CG1	1:a:670:TRP:HB2	2.51	0.40
1:c:229:VAL:CG1	1:c:670:TRP:HB2	2.51	0.40
1:c:420:ASN:HB3	1:c:720:THR:HA	2.04	0.40
1:c:431:VAL:O	1:o:346:HIS:HD2	2.04	0.40
1:c:441:THR:HG21	1:o:481:ASN:HB3	2.03	0.40
1:e:229:VAL:CG1	1:e:670:TRP:HB2	2.51	0.40
1:f:397:ARG:HD2	1:z:213:GLN:C	2.46	0.40
1:f:425:ARG:HB3	1:h:366:LEU:HD11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:694:ALA:HA	1:1:378:LEU:HD12	2.03	0.40
1:i:697:GLN:HG2	1:i:709:ASP:OD2	2.22	0.40
1:j:265:THR:HG22	1:j:267:TRP:HD1	1.86	0.40
1:j:351:PRO:HD3	1:j:358:PHE:CD2	2.56	0.40
1:k:229:VAL:CG1	1:k:670:TRP:HB2	2.51	0.40
1:l:247:TYR:CE1	1:l:265:THR:HG23	2.56	0.40
1:l:539:VAL:HA	1:l:540:PRO:HD3	1.98	0.40
1:n:351:PRO:HD3	1:n:358:PHE:CD2	2.56	0.40
1:o:539:VAL:HG21	1:o:545:LEU:HD11	2.02	0.40
1:q:445:ASN:HB2	1:r:536:ALA:C	2.45	0.40
1:q:571:ASN:OD1	1:q:574:VAL:HG12	2.21	0.40
1:q:697:GLN:HG2	1:q:709:ASP:OD2	2.21	0.40
1:r:425:ARG:HB3	1:s:366:LEU:HD11	2.02	0.40
1:v:697:GLN:HG2	1:v:709:ASP:OD2	2.21	0.40
1:w:274:ARG:HD3	1:w:600:GLN:O	2.20	0.40
1:w:346:HIS:CD2	1:y:431:VAL:HG23	2.56	0.40
1:w:481:ASN:HB3	1:y:441:THR:HG21	2.03	0.40
1:x:242:TYR:OH	1:x:360:LEU:O	2.36	0.40
1:y:265:THR:HG22	1:y:267:TRP:HD1	1.86	0.40
1:y:274:ARG:HD3	1:y:600:GLN:O	2.20	0.40
1:z:346:HIS:HD2	1:2:431:VAL:O	2.04	0.40
1:1:247:TYR:CE1	1:1:265:THR:HG23	2.56	0.40
1:1:418:MET:HE2	1:1:418:MET:HB3	1.97	0.40
1:4:229:VAL:CG1	1:4:670:TRP:HB2	2.51	0.40
1:5:229:VAL:CG1	1:5:670:TRP:HB2	2.51	0.40
1:6:234:THR:HG22	1:6:665:THR:HB	2.03	0.40
1:7:571:ASN:OD1	1:7:574:VAL:HG12	2.21	0.40
1:8:229:VAL:CG1	1:8:670:TRP:HB2	2.51	0.40
1:8:351:PRO:HD3	1:8:358:PHE:CD2	2.56	0.40
1:8:539:VAL:HG21	1:8:545:LEU:HD11	2.02	0.40
1:A:571:ASN:OD1	1:A:574:VAL:HG12	2.21	0.40
1:B:247:TYR:CE1	1:B:265:THR:HG23	2.56	0.40
1:B:439:ASP:O	1:J:487:THR:N	2.55	0.40
1:B:504:ALA:HA	1:B:505:PRO:HA	1.78	0.40
1:E:247:TYR:CE1	1:E:265:THR:HG23	2.56	0.40
1:E:481:ASN:HB3	1:F:441:THR:HG21	2.03	0.40
1:F:265:THR:HG22	1:F:267:TRP:HD1	1.86	0.40
1:F:469:CYS:HB2	1:Q:565:ILE:CD1	2.50	0.40
1:G:571:ASN:OD1	1:G:574:VAL:HG12	2.21	0.40
1:H:343:GLY:O	1:Y:462:ASN:ND2	2.52	0.40
1:I:247:TYR:CE1	1:I:265:THR:HG23	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:431:VAL:HG23	1:L:346:HIS:CD2	2.56	0.40
1:K:366:LEU:HD11	1:8:425:ARG:HB3	2.02	0.40
1:L:229:VAL:CG1	1:L:670:TRP:HB2	2.51	0.40
1:M:242:TYR:OH	1:M:360:LEU:O	2.36	0.40
1:N:697:GLN:HG2	1:N:709:ASP:OD2	2.22	0.40
1:P:571:ASN:OD1	1:P:574:VAL:HG12	2.21	0.40
1:R:242:TYR:OH	1:R:360:LEU:O	2.36	0.40
1:R:571:ASN:OD1	1:R:574:VAL:HG12	2.21	0.40
1:R:697:GLN:HG2	1:R:709:ASP:OD2	2.21	0.40
1:S:274:ARG:HD3	1:S:600:GLN:O	2.20	0.40
1:V:571:ASN:OD1	1:V:574:VAL:HG12	2.21	0.40
1:W:351:PRO:HD3	1:W:358:PHE:CD2	2.56	0.40
1:X:481:ASN:HB3	1:e:441:THR:HG21	2.03	0.40
1:X:539:VAL:HG21	1:X:545:LEU:HD11	2.02	0.40
1:Y:274:ARG:HD3	1:Y:600:GLN:O	2.20	0.40
1:Z:229:VAL:CG1	1:Z:670:TRP:HB2	2.51	0.40
1:Z:265:THR:HG22	1:Z:267:TRP:HD1	1.86	0.40
1:Z:539:VAL:HG21	1:Z:545:LEU:HD11	2.02	0.40
1:b:351:PRO:HD3	1:b:358:PHE:CD2	2.56	0.40
1:d:351:PRO:HD3	1:d:358:PHE:CD2	2.56	0.40
1:e:418:MET:HE2	1:e:418:MET:HB3	1.97	0.40
1:f:351:PRO:HD3	1:f:358:PHE:CD2	2.56	0.40
1:j:229:VAL:CG1	1:j:670:TRP:HB2	2.51	0.40
1:m:428:ASN:HD22	1:m:431:VAL:HG22	1.85	0.40
1:p:351:PRO:HD3	1:p:358:PHE:CD2	2.56	0.40
1:q:242:TYR:OH	1:q:360:LEU:O	2.36	0.40
1:r:247:TYR:CE1	1:r:265:THR:HG23	2.56	0.40
1:r:431:VAL:HG23	1:s:346:HIS:CD2	2.56	0.40
1:s:274:ARG:CD	1:s:276:HIS:CE1	3.02	0.40
1:t:571:ASN:OD1	1:t:574:VAL:HG12	2.21	0.40
1:v:571:ASN:OD1	1:v:574:VAL:HG12	2.21	0.40
1:w:274:ARG:HH11	1:w:276:HIS:CE1	2.34	0.40
1:w:606:LYS:HB2	1:w:628:PRO:HG3	2.02	0.40
1:x:229:VAL:CG1	1:x:670:TRP:HB2	2.51	0.40
1:x:565:ILE:CD1	1:y:469:CYS:HB2	2.50	0.40
1:y:247:TYR:CE1	1:y:265:THR:HG23	2.56	0.40
1:z:229:VAL:CG1	1:z:670:TRP:HB2	2.51	0.40
1:1:439:ASP:O	1:2:487:THR:N	2.55	0.40
1:1:539:VAL:HG21	1:1:545:LEU:HD11	2.02	0.40
1:3:229:VAL:CG1	1:3:670:TRP:HB2	2.51	0.40
1:4:539:VAL:HG21	1:4:545:LEU:HD11	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:346:HIS:HD2	1:7:431:VAL:O	2.03	0.40
1:6:370:GLY:HA2	1:6:371:PRO:HD3	1.81	0.40
1:B:274:ARG:HD3	1:B:600:GLN:O	2.20	0.40
1:B:481:ASN:HB3	1:L:441:THR:HG21	2.03	0.40
1:B:528:LYS:HE3	1:B:707:ILE:HD13	2.04	0.40
1:C:689:ASN:HB2	1:C:697:GLN:HE22	1.86	0.40
1:E:234:THR:HG22	1:E:665:THR:HB	2.03	0.40
1:E:539:VAL:HG21	1:E:545:LEU:HD11	2.02	0.40
1:H:346:HIS:HD2	1:Y:431:VAL:O	2.03	0.40
1:I:265:THR:HG22	1:I:267:TRP:HD1	1.86	0.40
1:J:697:GLN:HG2	1:J:709:ASP:OD2	2.21	0.40
1:K:431:VAL:O	1:a:346:HIS:HD2	2.04	0.40
1:M:351:PRO:HD3	1:M:358:PHE:CD2	2.56	0.40
1:N:428:ASN:HD22	1:N:431:VAL:HG22	1.85	0.40
1:O:431:VAL:O	1:m:346:HIS:HD2	2.03	0.40
1:O:697:GLN:HG2	1:O:709:ASP:OD2	2.21	0.40
1:P:229:VAL:CG1	1:P:670:TRP:HB2	2.51	0.40
1:P:274:ARG:CD	1:P:276:HIS:CE1	3.02	0.40
1:Q:539:VAL:HG21	1:Q:545:LEU:HD11	2.02	0.40
1:R:274:ARG:CD	1:R:276:HIS:CE1	3.02	0.40
1:S:431:VAL:HG23	1:U:346:HIS:CD2	2.56	0.40
1:T:428:ASN:HD22	1:T:431:VAL:HG22	1.85	0.40
1:T:697:GLN:HG2	1:T:709:ASP:OD2	2.21	0.40
1:U:274:ARG:CD	1:U:276:HIS:CE1	3.02	0.40
1:V:274:ARG:HH11	1:V:276:HIS:CE1	2.34	0.40
1:W:431:VAL:HG23	1:Y:346:HIS:CD2	2.56	0.40
1:Z:425:ARG:HB3	1:4:366:LEU:HD11	2.02	0.40
1:a:242:TYR:OH	1:a:360:LEU:O	2.36	0.40
1:a:370:GLY:HA2	1:a:371:PRO:HD3	1.81	0.40
1:b:571:ASN:OD1	1:b:574:VAL:HG12	2.21	0.40
1:b:689:ASN:HB2	1:b:697:GLN:HE22	1.87	0.40
1:c:242:TYR:OH	1:c:360:LEU:O	2.36	0.40
1:c:265:THR:HG22	1:c:267:TRP:HD1	1.86	0.40
1:c:418:MET:HE2	1:c:418:MET:HB3	1.97	0.40
1:c:689:ASN:HB2	1:c:697:GLN:HE22	1.87	0.40
1:d:697:GLN:HG2	1:d:709:ASP:OD2	2.21	0.40
1:e:265:THR:HG22	1:e:267:TRP:HD1	1.86	0.40
1:e:689:ASN:HB2	1:e:697:GLN:HE22	1.87	0.40
1:f:431:VAL:O	1:h:346:HIS:HD2	2.04	0.40
1:f:571:ASN:OD1	1:f:574:VAL:HG12	2.21	0.40
1:f:689:ASN:HB2	1:f:697:GLN:HE22	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:689:ASN:HB2	1:g:697:GLN:HE22	1.87	0.40
1:h:351:PRO:HD3	1:h:358:PHE:CD2	2.56	0.40
1:m:697:GLN:HG2	1:m:709:ASP:OD2	2.21	0.40
1:n:697:GLN:HG2	1:n:709:ASP:OD2	2.21	0.40
1:o:431:VAL:O	1:p:346:HIS:HD2	2.03	0.40
1:p:418:MET:HE2	1:p:418:MET:HB3	1.97	0.40
1:p:571:ASN:OD1	1:p:574:VAL:HG12	2.21	0.40
1:q:420:ASN:HB3	1:q:720:THR:HA	2.03	0.40
1:r:274:ARG:HD3	1:r:600:GLN:O	2.20	0.40
1:r:431:VAL:O	1:s:346:HIS:HD2	2.04	0.40
1:t:234:THR:HG22	1:t:665:THR:HB	2.03	0.40
1:t:504:ALA:HA	1:t:505:PRO:HA	1.78	0.40
1:u:247:TYR:CE1	1:u:265:THR:HG23	2.56	0.40
1:u:265:THR:HG22	1:u:267:TRP:HD1	1.86	0.40
1:w:539:VAL:HG21	1:w:545:LEU:HD11	2.02	0.40
1:1:274:ARG:HD3	1:1:600:GLN:O	2.20	0.40
1:1:370:GLY:HA2	1:1:371:PRO:HD3	1.81	0.40
1:2:697:GLN:HG2	1:2:709:ASP:OD2	2.21	0.40
1:3:346:HIS:HD2	1:4:431:VAL:O	2.04	0.40
1:4:265:THR:HG22	1:4:267:TRP:HD1	1.86	0.40
1:6:351:PRO:HD3	1:6:358:PHE:CD2	2.56	0.40
1:6:431:VAL:HG23	1:7:346:HIS:CD2	2.56	0.40
1:6:528:LYS:HE3	1:6:707:ILE:HD13	2.04	0.40
1:7:242:TYR:OH	1:7:360:LEU:O	2.36	0.40
1:A:351:PRO:HD3	1:A:358:PHE:CD2	2.56	0.40
1:E:697:GLN:HG2	1:E:709:ASP:OD2	2.21	0.40
1:F:274:ARG:HD3	1:F:600:GLN:O	2.20	0.40
1:H:265:THR:HG22	1:H:267:TRP:HD1	1.86	0.40
1:I:689:ASN:HB2	1:I:697:GLN:HE22	1.87	0.40
1:M:274:ARG:CD	1:M:276:HIS:CE1	3.02	0.40
1:M:481:ASN:HB3	1:b:441:THR:HG21	2.03	0.40
1:O:265:THR:HG22	1:O:267:TRP:HD1	1.86	0.40
1:O:441:THR:HG21	1:m:481:ASN:HB3	2.03	0.40
1:O:528:LYS:HE3	1:O:707:ILE:HD13	2.04	0.40
1:O:689:ASN:HB2	1:O:697:GLN:HE22	1.87	0.40
1:R:378:LEU:HD12	1:V:694:ALA:HA	2.03	0.40
1:T:346:HIS:HD2	1:l:431:VAL:O	2.03	0.40
1:V:351:PRO:HD3	1:V:358:PHE:CD2	2.56	0.40
1:X:265:THR:HG22	1:X:267:TRP:HD1	1.86	0.40
1:X:428:ASN:HD22	1:X:431:VAL:HG22	1.85	0.40
1:X:689:ASN:HB2	1:X:697:GLN:HE22	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:528:LYS:HE3	1:Z:707:ILE:HD13	2.04	0.40
1:Z:689:ASN:HB2	1:Z:697:GLN:HE22	1.87	0.40
1:d:528:LYS:HE3	1:d:707:ILE:HD13	2.04	0.40
1:e:274:ARG:HH11	1:e:276:HIS:CE1	2.34	0.40
1:e:528:LYS:HE3	1:e:707:ILE:HD13	2.04	0.40
1:f:441:THR:HG21	1:h:481:ASN:HB3	2.03	0.40
1:g:351:PRO:HD3	1:g:358:PHE:CD2	2.56	0.40
1:j:571:ASN:OD1	1:j:574:VAL:HG12	2.21	0.40
1:k:539:VAL:HA	1:k:540:PRO:HD3	1.98	0.40
1:l:697:GLN:HG2	1:l:709:ASP:OD2	2.21	0.40
1:n:528:LYS:HE3	1:n:707:ILE:HD13	2.04	0.40
1:o:689:ASN:HB2	1:o:697:GLN:HE22	1.87	0.40
1:p:276:HIS:HD2	1:p:352:PRO:HB3	1.78	0.40
1:q:694:ALA:HA	1:y:378:LEU:HD12	2.03	0.40
1:s:571:ASN:OD1	1:s:574:VAL:HG12	2.21	0.40
1:t:425:ARG:HD3	1:t:425:ARG:HA	1.93	0.40
1:t:469:CYS:HB2	1:v:565:ILE:CD1	2.50	0.40
1:u:689:ASN:HB2	1:u:697:GLN:HE22	1.87	0.40
1:v:351:PRO:HD3	1:v:358:PHE:CD2	2.56	0.40
1:w:234:THR:HG22	1:w:665:THR:HB	2.03	0.40
1:w:247:TYR:CE1	1:w:265:THR:HG23	2.56	0.40
1:x:539:VAL:HG21	1:x:545:LEU:HD11	2.02	0.40
1:z:425:ARG:HB3	1:1:366:LEU:HD11	2.03	0.40
1:1:528:LYS:HE3	1:1:707:ILE:HD13	2.04	0.40
1:1:571:ASN:OD1	1:1:574:VAL:HG12	2.20	0.40
1:2:370:GLY:HA2	1:2:371:PRO:HD3	1.81	0.40
1:3:265:THR:HG22	1:3:267:TRP:HD1	1.86	0.40
1:3:370:GLY:HA2	1:3:371:PRO:HD3	1.81	0.40
1:4:234:THR:HG22	1:4:665:THR:HB	2.03	0.40
1:4:425:ARG:HD3	1:4:425:ARG:HA	1.93	0.40
1:5:265:THR:HG22	1:5:267:TRP:HD1	1.86	0.40
1:6:689:ASN:HB2	1:6:697:GLN:HE22	1.87	0.40
1:7:428:ASN:HD22	1:7:431:VAL:HG22	1.85	0.40
1:A:353:PHE:HA	1:A:354:PRO:HD3	1.95	0.40
1:B:420:ASN:HB3	1:B:720:THR:HA	2.04	0.40
1:B:502:LYS:HD3	1:B:519:ALA:HB3	2.04	0.40
1:B:571:ASN:OD1	1:B:574:VAL:HG12	2.21	0.40
1:C:351:PRO:HD3	1:C:358:PHE:CD2	2.56	0.40
1:D:370:GLY:HA2	1:D:371:PRO:HD3	1.81	0.40
1:D:689:ASN:HB2	1:D:697:GLN:HE22	1.87	0.40
1:E:431:VAL:HG23	1:Q:346:HIS:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:528:LYS:HE3	1:E:707:ILE:HD13	2.04	0.40
1:E:689:ASN:HB2	1:E:697:GLN:HE22	1.87	0.40
1:F:378:LEU:HD12	1:R:694:ALA:HA	2.03	0.40
1:F:528:LYS:HE3	1:F:707:ILE:HD13	2.04	0.40
1:H:504:ALA:HA	1:H:505:PRO:HA	1.78	0.40
1:H:539:VAL:HG21	1:H:545:LEU:HD11	2.02	0.40
1:J:265:THR:HG22	1:J:267:TRP:HD1	1.86	0.40
1:K:234:THR:HG22	1:K:665:THR:HB	2.03	0.40
1:L:380:THR:HG22	1:L:383:SER:OG	2.22	0.40
1:N:229:VAL:CG1	1:N:670:TRP:HB2	2.51	0.40
1:N:528:LYS:HE3	1:N:707:ILE:HD13	2.04	0.40
1:N:539:VAL:HG21	1:N:545:LEU:HD11	2.02	0.40
1:O:502:LYS:HD3	1:O:519:ALA:HB3	2.04	0.40
1:P:697:GLN:HG2	1:P:709:ASP:OD2	2.21	0.40
1:Q:528:LYS:HE3	1:Q:707:ILE:HD13	2.04	0.40
1:R:351:PRO:HD3	1:R:358:PHE:CD2	2.56	0.40
1:R:539:VAL:HG21	1:R:545:LEU:HD11	2.02	0.40
1:S:441:THR:HG21	1:U:481:ASN:HB3	2.03	0.40
1:S:571:ASN:OD1	1:S:574:VAL:HG12	2.21	0.40
1:T:431:VAL:O	1:d:346:HIS:HD2	2.04	0.40
1:T:481:ASN:HB3	1:l:441:THR:HG21	2.03	0.40
1:T:571:ASN:OD1	1:T:574:VAL:HG12	2.21	0.40
1:T:689:ASN:HB2	1:T:697:GLN:HE22	1.86	0.40
1:U:697:GLN:HG2	1:U:709:ASP:OD2	2.21	0.40
1:V:346:HIS:HD2	1:X:431:VAL:O	2.03	0.40
1:V:502:LYS:HD3	1:V:519:ALA:HB3	2.04	0.40
1:W:528:LYS:HE3	1:W:707:ILE:HD13	2.04	0.40
1:X:502:LYS:HD3	1:X:519:ALA:HB3	2.04	0.40
1:Y:428:ASN:HD22	1:Y:431:VAL:HG22	1.85	0.40
1:Z:234:THR:HG22	1:Z:665:THR:HB	2.03	0.40
1:c:528:LYS:HE3	1:c:707:ILE:HD13	2.04	0.40
1:d:441:THR:HG21	1:l:481:ASN:HB3	2.03	0.40
1:h:274:ARG:CD	1:h:276:HIS:CE1	3.02	0.40
1:i:428:ASN:HD22	1:i:431:VAL:HG22	1.85	0.40
1:i:539:VAL:HG21	1:i:545:LEU:HD11	2.02	0.40
1:j:274:ARG:CD	1:j:276:HIS:CE1	3.02	0.40
1:k:428:ASN:HD22	1:k:431:VAL:HG22	1.85	0.40
1:l:265:THR:HG22	1:l:267:TRP:HD1	1.86	0.40
1:l:370:GLY:HA2	1:l:371:PRO:HD3	1.81	0.40
1:l:502:LYS:HD3	1:l:519:ALA:HB3	2.04	0.40
1:l:528:LYS:HE3	1:l:707:ILE:HD13	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:689:ASN:HB2	1:l:697:GLN:HE22	1.87	0.40
1:m:571:ASN:OD1	1:m:574:VAL:HG12	2.21	0.40
1:n:425:ARG:HA	1:n:425:ARG:HD3	1.93	0.40
1:o:265:THR:HG22	1:o:267:TRP:HD1	1.86	0.40
1:o:502:LYS:HD3	1:o:519:ALA:HB3	2.04	0.40
1:p:502:LYS:HD3	1:p:519:ALA:HB3	2.04	0.40
1:q:274:ARG:CD	1:q:276:HIS:CE1	3.02	0.40
1:q:351:PRO:HD3	1:q:358:PHE:CD2	2.56	0.40
1:r:265:THR:HG22	1:r:267:TRP:HD1	1.86	0.40
1:r:441:THR:HG21	1:s:481:ASN:HB3	2.03	0.40
1:t:229:VAL:CG1	1:t:670:TRP:HB2	2.51	0.40
1:t:265:THR:HG22	1:t:267:TRP:HD1	1.86	0.40
1:t:441:THR:HG21	1:u:481:ASN:HB3	2.03	0.40
1:t:481:ASN:HB3	1:v:441:THR:HG21	2.03	0.40
1:w:431:VAL:HG23	1:x:346:HIS:CD2	2.56	0.40
1:w:528:LYS:HE3	1:w:707:ILE:HD13	2.04	0.40
1:w:689:ASN:HB2	1:w:697:GLN:HE22	1.87	0.40
1:x:528:LYS:HE3	1:x:707:ILE:HD13	2.04	0.40
1:z:380:THR:HG22	1:z:383:SER:OG	2.22	0.40
1:z:434:TYR:CG	1:1:274:ARG:NH2	2.90	0.40
1:1:420:ASN:HB3	1:1:720:THR:HA	2.03	0.40
1:2:265:THR:HG22	1:2:267:TRP:HD1	1.86	0.40
1:3:242:TYR:OH	1:3:360:LEU:O	2.36	0.40
1:4:351:PRO:HD3	1:4:358:PHE:CD2	2.56	0.40
1:8:234:THR:HG22	1:8:665:THR:HB	2.03	0.40
1:8:528:LYS:HE3	1:8:707:ILE:HD13	2.04	0.40
1:8:689:ASN:HB2	1:8:697:GLN:HE22	1.87	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	2	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	3	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	4	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	5	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	6	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	7	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	8	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	A	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	B	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	C	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	D	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	E	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	F	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	G	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	H	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	I	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	J	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	K	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	L	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	M	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	N	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	O	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	P	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	Q	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	R	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	S	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	T	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	U	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	V	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	W	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	X	512/513 (100%)	498 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	Z	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	a	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	b	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	c	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	d	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	e	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	f	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	g	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	h	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	i	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	j	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	k	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	l	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	m	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	n	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	o	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	p	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	q	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	r	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	s	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	t	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	u	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	v	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	w	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	x	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	y	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	z	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
All	All	30720/30780 (100%)	29880 (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	440/439 (100%)	440 (100%)	0	100	100
1	2	440/439 (100%)	440 (100%)	0	100	100
1	3	440/439 (100%)	440 (100%)	0	100	100
1	4	440/439 (100%)	440 (100%)	0	100	100
1	5	440/439 (100%)	440 (100%)	0	100	100
1	6	440/439 (100%)	440 (100%)	0	100	100
1	7	440/439 (100%)	440 (100%)	0	100	100
1	8	440/439 (100%)	440 (100%)	0	100	100
1	A	440/439 (100%)	440 (100%)	0	100	100
1	B	440/439 (100%)	440 (100%)	0	100	100
1	C	440/439 (100%)	440 (100%)	0	100	100
1	D	440/439 (100%)	440 (100%)	0	100	100
1	E	440/439 (100%)	440 (100%)	0	100	100
1	F	440/439 (100%)	440 (100%)	0	100	100
1	G	440/439 (100%)	440 (100%)	0	100	100
1	H	440/439 (100%)	440 (100%)	0	100	100
1	I	440/439 (100%)	440 (100%)	0	100	100
1	J	440/439 (100%)	440 (100%)	0	100	100
1	K	440/439 (100%)	440 (100%)	0	100	100
1	L	440/439 (100%)	440 (100%)	0	100	100
1	M	440/439 (100%)	440 (100%)	0	100	100
1	N	440/439 (100%)	440 (100%)	0	100	100
1	O	440/439 (100%)	440 (100%)	0	100	100
1	P	440/439 (100%)	440 (100%)	0	100	100
1	Q	440/439 (100%)	440 (100%)	0	100	100
1	R	440/439 (100%)	440 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S	440/439 (100%)	440 (100%)	0	100	100
1	T	440/439 (100%)	440 (100%)	0	100	100
1	U	440/439 (100%)	440 (100%)	0	100	100
1	V	440/439 (100%)	440 (100%)	0	100	100
1	W	440/439 (100%)	440 (100%)	0	100	100
1	X	440/439 (100%)	440 (100%)	0	100	100
1	Y	440/439 (100%)	440 (100%)	0	100	100
1	Z	440/439 (100%)	440 (100%)	0	100	100
1	a	440/439 (100%)	440 (100%)	0	100	100
1	b	440/439 (100%)	440 (100%)	0	100	100
1	c	440/439 (100%)	440 (100%)	0	100	100
1	d	440/439 (100%)	440 (100%)	0	100	100
1	e	440/439 (100%)	440 (100%)	0	100	100
1	f	440/439 (100%)	440 (100%)	0	100	100
1	g	440/439 (100%)	440 (100%)	0	100	100
1	h	440/439 (100%)	440 (100%)	0	100	100
1	i	440/439 (100%)	440 (100%)	0	100	100
1	j	440/439 (100%)	440 (100%)	0	100	100
1	k	440/439 (100%)	440 (100%)	0	100	100
1	l	440/439 (100%)	440 (100%)	0	100	100
1	m	440/439 (100%)	440 (100%)	0	100	100
1	n	440/439 (100%)	440 (100%)	0	100	100
1	o	440/439 (100%)	440 (100%)	0	100	100
1	p	440/439 (100%)	440 (100%)	0	100	100
1	q	440/439 (100%)	440 (100%)	0	100	100
1	r	440/439 (100%)	440 (100%)	0	100	100
1	s	440/439 (100%)	440 (100%)	0	100	100
1	t	440/439 (100%)	440 (100%)	0	100	100
1	u	440/439 (100%)	440 (100%)	0	100	100
1	v	440/439 (100%)	440 (100%)	0	100	100
1	w	440/439 (100%)	440 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	x	440/439 (100%)	440 (100%)	0	100	100
1	y	440/439 (100%)	440 (100%)	0	100	100
1	z	440/439 (100%)	440 (100%)	0	100	100
All	All	26400/26340 (100%)	26400 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (897) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	276	HIS
1	A	289	ASN
1	A	290	ASN
1	A	307	GLN
1	A	329	GLN
1	A	346	HIS
1	A	376	ASN
1	A	414	HIS
1	A	420	ASN
1	A	509	ASN
1	A	560	ASN
1	A	569	ASN
1	A	593	GLN
1	A	631	GLN
1	B	276	HIS
1	B	289	ASN
1	B	290	ASN
1	B	307	GLN
1	B	329	GLN
1	B	346	HIS
1	B	374	ASN
1	B	376	ASN
1	B	414	HIS
1	B	420	ASN
1	B	509	ASN
1	B	560	ASN
1	B	569	ASN
1	B	593	GLN
1	B	631	GLN
1	C	276	HIS
1	C	289	ASN

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Mol	Chain	Res	Type
1	C	290	ASN
1	C	307	GLN
1	C	329	GLN
1	C	346	HIS
1	C	374	ASN
1	C	376	ASN
1	C	414	HIS
1	C	420	ASN
1	C	509	ASN
1	C	560	ASN
1	C	569	ASN
1	C	593	GLN
1	C	631	GLN
1	D	276	HIS
1	D	289	ASN
1	D	290	ASN
1	D	307	GLN
1	D	329	GLN
1	D	346	HIS
1	D	374	ASN
1	D	376	ASN
1	D	414	HIS
1	D	420	ASN
1	D	509	ASN
1	D	560	ASN
1	D	569	ASN
1	D	593	GLN
1	D	631	GLN
1	E	276	HIS
1	E	289	ASN
1	E	290	ASN
1	E	307	GLN
1	E	329	GLN
1	E	346	HIS
1	E	374	ASN
1	E	376	ASN
1	E	414	HIS
1	E	420	ASN
1	E	509	ASN
1	E	560	ASN
1	E	569	ASN
1	E	593	GLN

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Mol	Chain	Res	Type
1	E	631	GLN
1	F	276	HIS
1	F	289	ASN
1	F	290	ASN
1	F	307	GLN
1	F	329	GLN
1	F	336	HIS
1	F	346	HIS
1	F	374	ASN
1	F	376	ASN
1	F	414	HIS
1	F	420	ASN
1	F	509	ASN
1	F	560	ASN
1	F	569	ASN
1	F	593	GLN
1	F	631	GLN
1	G	276	HIS
1	G	289	ASN
1	G	290	ASN
1	G	307	GLN
1	G	329	GLN
1	G	346	HIS
1	G	374	ASN
1	G	376	ASN
1	G	414	HIS
1	G	420	ASN
1	G	509	ASN
1	G	560	ASN
1	G	569	ASN
1	G	593	GLN
1	G	631	GLN
1	H	276	HIS
1	H	289	ASN
1	H	290	ASN
1	H	307	GLN
1	H	329	GLN
1	H	346	HIS
1	H	374	ASN
1	H	376	ASN
1	H	414	HIS
1	H	420	ASN

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Mol	Chain	Res	Type
1	H	509	ASN
1	H	560	ASN
1	H	569	ASN
1	H	593	GLN
1	H	613	HIS
1	H	631	GLN
1	I	276	HIS
1	I	289	ASN
1	I	290	ASN
1	I	307	GLN
1	I	329	GLN
1	I	346	HIS
1	I	374	ASN
1	I	376	ASN
1	I	414	HIS
1	I	420	ASN
1	I	509	ASN
1	I	560	ASN
1	I	569	ASN
1	I	593	GLN
1	I	631	GLN
1	J	276	HIS
1	J	289	ASN
1	J	290	ASN
1	J	307	GLN
1	J	329	GLN
1	J	336	HIS
1	J	346	HIS
1	J	374	ASN
1	J	376	ASN
1	J	414	HIS
1	J	420	ASN
1	J	509	ASN
1	J	560	ASN
1	J	569	ASN
1	J	593	GLN
1	J	631	GLN
1	K	276	HIS
1	K	289	ASN
1	K	290	ASN
1	K	307	GLN
1	K	329	GLN

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Mol	Chain	Res	Type
1	K	346	HIS
1	K	374	ASN
1	K	376	ASN
1	K	414	HIS
1	K	420	ASN
1	K	509	ASN
1	K	560	ASN
1	K	569	ASN
1	K	593	GLN
1	K	631	GLN
1	L	276	HIS
1	L	289	ASN
1	L	290	ASN
1	L	307	GLN
1	L	329	GLN
1	L	346	HIS
1	L	374	ASN
1	L	376	ASN
1	L	414	HIS
1	L	420	ASN
1	L	509	ASN
1	L	560	ASN
1	L	569	ASN
1	L	593	GLN
1	L	631	GLN
1	M	276	HIS
1	M	289	ASN
1	M	290	ASN
1	M	307	GLN
1	M	329	GLN
1	M	346	HIS
1	M	374	ASN
1	M	376	ASN
1	M	414	HIS
1	M	420	ASN
1	M	509	ASN
1	M	560	ASN
1	M	569	ASN
1	M	593	GLN
1	M	631	GLN
1	N	276	HIS
1	N	289	ASN

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Mol	Chain	Res	Type
1	N	290	ASN
1	N	307	GLN
1	N	329	GLN
1	N	346	HIS
1	N	374	ASN
1	N	376	ASN
1	N	414	HIS
1	N	420	ASN
1	N	509	ASN
1	N	560	ASN
1	N	569	ASN
1	N	593	GLN
1	N	631	GLN
1	O	276	HIS
1	O	289	ASN
1	O	290	ASN
1	O	307	GLN
1	O	329	GLN
1	O	346	HIS
1	O	374	ASN
1	O	376	ASN
1	O	414	HIS
1	O	420	ASN
1	O	509	ASN
1	O	560	ASN
1	O	593	GLN
1	O	631	GLN
1	P	276	HIS
1	P	289	ASN
1	P	290	ASN
1	P	307	GLN
1	P	329	GLN
1	P	336	HIS
1	P	346	HIS
1	P	374	ASN
1	P	376	ASN
1	P	414	HIS
1	P	420	ASN
1	P	509	ASN
1	P	560	ASN
1	P	569	ASN
1	P	593	GLN

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Mol	Chain	Res	Type
1	P	631	GLN
1	Q	276	HIS
1	Q	289	ASN
1	Q	290	ASN
1	Q	307	GLN
1	Q	329	GLN
1	Q	346	HIS
1	Q	374	ASN
1	Q	376	ASN
1	Q	414	HIS
1	Q	420	ASN
1	Q	509	ASN
1	Q	560	ASN
1	Q	593	GLN
1	Q	631	GLN
1	R	276	HIS
1	R	289	ASN
1	R	290	ASN
1	R	307	GLN
1	R	329	GLN
1	R	336	HIS
1	R	346	HIS
1	R	374	ASN
1	R	376	ASN
1	R	414	HIS
1	R	420	ASN
1	R	509	ASN
1	R	560	ASN
1	R	593	GLN
1	R	631	GLN
1	S	276	HIS
1	S	289	ASN
1	S	290	ASN
1	S	307	GLN
1	S	329	GLN
1	S	346	HIS
1	S	374	ASN
1	S	376	ASN
1	S	414	HIS
1	S	420	ASN
1	S	509	ASN
1	S	560	ASN

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Mol	Chain	Res	Type
1	S	593	GLN
1	S	631	GLN
1	T	276	HIS
1	T	289	ASN
1	T	290	ASN
1	T	307	GLN
1	T	329	GLN
1	T	346	HIS
1	T	374	ASN
1	T	376	ASN
1	T	414	HIS
1	T	420	ASN
1	T	509	ASN
1	T	560	ASN
1	T	569	ASN
1	T	593	GLN
1	T	631	GLN
1	U	276	HIS
1	U	289	ASN
1	U	290	ASN
1	U	307	GLN
1	U	329	GLN
1	U	346	HIS
1	U	374	ASN
1	U	376	ASN
1	U	414	HIS
1	U	420	ASN
1	U	509	ASN
1	U	560	ASN
1	U	569	ASN
1	U	593	GLN
1	U	631	GLN
1	V	276	HIS
1	V	289	ASN
1	V	290	ASN
1	V	307	GLN
1	V	329	GLN
1	V	346	HIS
1	V	374	ASN
1	V	376	ASN
1	V	414	HIS
1	V	420	ASN

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Mol	Chain	Res	Type
1	V	509	ASN
1	V	560	ASN
1	V	593	GLN
1	V	631	GLN
1	W	276	HIS
1	W	289	ASN
1	W	290	ASN
1	W	307	GLN
1	W	329	GLN
1	W	346	HIS
1	W	374	ASN
1	W	376	ASN
1	W	414	HIS
1	W	420	ASN
1	W	509	ASN
1	W	560	ASN
1	W	569	ASN
1	W	593	GLN
1	W	631	GLN
1	X	276	HIS
1	X	289	ASN
1	X	290	ASN
1	X	307	GLN
1	X	329	GLN
1	X	346	HIS
1	X	374	ASN
1	X	376	ASN
1	X	414	HIS
1	X	420	ASN
1	X	509	ASN
1	X	560	ASN
1	X	569	ASN
1	X	593	GLN
1	X	631	GLN
1	Y	276	HIS
1	Y	289	ASN
1	Y	290	ASN
1	Y	307	GLN
1	Y	329	GLN
1	Y	346	HIS
1	Y	374	ASN
1	Y	376	ASN

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Mol	Chain	Res	Type
1	Y	414	HIS
1	Y	420	ASN
1	Y	509	ASN
1	Y	560	ASN
1	Y	569	ASN
1	Y	593	GLN
1	Y	631	GLN
1	Z	276	HIS
1	Z	289	ASN
1	Z	290	ASN
1	Z	307	GLN
1	Z	329	GLN
1	Z	346	HIS
1	Z	374	ASN
1	Z	376	ASN
1	Z	414	HIS
1	Z	420	ASN
1	Z	509	ASN
1	Z	560	ASN
1	Z	569	ASN
1	Z	593	GLN
1	Z	631	GLN
1	a	276	HIS
1	a	289	ASN
1	a	290	ASN
1	a	307	GLN
1	a	329	GLN
1	a	346	HIS
1	a	374	ASN
1	a	376	ASN
1	a	414	HIS
1	a	420	ASN
1	a	509	ASN
1	a	560	ASN
1	a	569	ASN
1	a	593	GLN
1	a	631	GLN
1	b	276	HIS
1	b	289	ASN
1	b	290	ASN
1	b	307	GLN
1	b	329	GLN

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Mol	Chain	Res	Type
1	b	346	HIS
1	b	374	ASN
1	b	376	ASN
1	b	414	HIS
1	b	420	ASN
1	b	509	ASN
1	b	560	ASN
1	b	569	ASN
1	b	593	GLN
1	b	631	GLN
1	c	276	HIS
1	c	289	ASN
1	c	290	ASN
1	c	307	GLN
1	c	329	GLN
1	c	346	HIS
1	c	374	ASN
1	c	376	ASN
1	c	414	HIS
1	c	420	ASN
1	c	509	ASN
1	c	560	ASN
1	c	569	ASN
1	c	593	GLN
1	c	631	GLN
1	d	276	HIS
1	d	289	ASN
1	d	290	ASN
1	d	307	GLN
1	d	329	GLN
1	d	346	HIS
1	d	374	ASN
1	d	376	ASN
1	d	414	HIS
1	d	420	ASN
1	d	509	ASN
1	d	560	ASN
1	d	593	GLN
1	d	631	GLN
1	e	276	HIS
1	e	289	ASN
1	e	290	ASN

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Mol	Chain	Res	Type
1	e	307	GLN
1	e	329	GLN
1	e	346	HIS
1	e	374	ASN
1	e	376	ASN
1	e	414	HIS
1	e	420	ASN
1	e	509	ASN
1	e	560	ASN
1	e	569	ASN
1	e	593	GLN
1	e	631	GLN
1	f	276	HIS
1	f	289	ASN
1	f	290	ASN
1	f	307	GLN
1	f	329	GLN
1	f	346	HIS
1	f	374	ASN
1	f	376	ASN
1	f	414	HIS
1	f	420	ASN
1	f	509	ASN
1	f	560	ASN
1	f	569	ASN
1	f	593	GLN
1	f	631	GLN
1	g	276	HIS
1	g	289	ASN
1	g	290	ASN
1	g	307	GLN
1	g	329	GLN
1	g	346	HIS
1	g	374	ASN
1	g	376	ASN
1	g	414	HIS
1	g	420	ASN
1	g	509	ASN
1	g	560	ASN
1	g	569	ASN
1	g	593	GLN
1	g	631	GLN

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Mol	Chain	Res	Type
1	h	276	HIS
1	h	289	ASN
1	h	290	ASN
1	h	307	GLN
1	h	329	GLN
1	h	346	HIS
1	h	374	ASN
1	h	376	ASN
1	h	414	HIS
1	h	420	ASN
1	h	509	ASN
1	h	560	ASN
1	h	569	ASN
1	h	593	GLN
1	h	631	GLN
1	i	276	HIS
1	i	289	ASN
1	i	290	ASN
1	i	307	GLN
1	i	329	GLN
1	i	346	HIS
1	i	374	ASN
1	i	376	ASN
1	i	414	HIS
1	i	420	ASN
1	i	509	ASN
1	i	560	ASN
1	i	569	ASN
1	i	593	GLN
1	i	631	GLN
1	j	276	HIS
1	j	289	ASN
1	j	290	ASN
1	j	307	GLN
1	j	329	GLN
1	j	336	HIS
1	j	346	HIS
1	j	374	ASN
1	j	376	ASN
1	j	414	HIS
1	j	420	ASN
1	j	509	ASN

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Mol	Chain	Res	Type
1	j	560	ASN
1	j	569	ASN
1	j	593	GLN
1	j	631	GLN
1	k	276	HIS
1	k	289	ASN
1	k	290	ASN
1	k	307	GLN
1	k	329	GLN
1	k	346	HIS
1	k	374	ASN
1	k	376	ASN
1	k	414	HIS
1	k	420	ASN
1	k	509	ASN
1	k	560	ASN
1	k	569	ASN
1	k	593	GLN
1	k	631	GLN
1	l	276	HIS
1	l	289	ASN
1	l	290	ASN
1	l	307	GLN
1	l	329	GLN
1	l	346	HIS
1	l	374	ASN
1	l	376	ASN
1	l	414	HIS
1	l	420	ASN
1	l	509	ASN
1	l	560	ASN
1	l	593	GLN
1	l	631	GLN
1	m	276	HIS
1	m	289	ASN
1	m	290	ASN
1	m	307	GLN
1	m	329	GLN
1	m	346	HIS
1	m	374	ASN
1	m	376	ASN
1	m	414	HIS

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Mol	Chain	Res	Type
1	m	420	ASN
1	m	509	ASN
1	m	560	ASN
1	m	569	ASN
1	m	593	GLN
1	m	631	GLN
1	n	276	HIS
1	n	289	ASN
1	n	290	ASN
1	n	307	GLN
1	n	329	GLN
1	n	346	HIS
1	n	374	ASN
1	n	376	ASN
1	n	414	HIS
1	n	420	ASN
1	n	509	ASN
1	n	560	ASN
1	n	593	GLN
1	n	631	GLN
1	o	276	HIS
1	o	289	ASN
1	o	290	ASN
1	o	307	GLN
1	o	329	GLN
1	o	346	HIS
1	o	374	ASN
1	o	376	ASN
1	o	414	HIS
1	o	420	ASN
1	o	509	ASN
1	o	560	ASN
1	o	569	ASN
1	o	593	GLN
1	o	631	GLN
1	p	276	HIS
1	p	289	ASN
1	p	290	ASN
1	p	307	GLN
1	p	329	GLN
1	p	346	HIS
1	p	374	ASN

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Mol	Chain	Res	Type
1	p	376	ASN
1	p	414	HIS
1	p	420	ASN
1	p	509	ASN
1	p	560	ASN
1	p	569	ASN
1	p	593	GLN
1	p	631	GLN
1	q	276	HIS
1	q	289	ASN
1	q	290	ASN
1	q	307	GLN
1	q	329	GLN
1	q	336	HIS
1	q	346	HIS
1	q	374	ASN
1	q	376	ASN
1	q	414	HIS
1	q	420	ASN
1	q	509	ASN
1	q	560	ASN
1	q	593	GLN
1	q	631	GLN
1	r	276	HIS
1	r	289	ASN
1	r	290	ASN
1	r	307	GLN
1	r	329	GLN
1	r	346	HIS
1	r	374	ASN
1	r	376	ASN
1	r	414	HIS
1	r	420	ASN
1	r	509	ASN
1	r	560	ASN
1	r	593	GLN
1	r	631	GLN
1	s	276	HIS
1	s	289	ASN
1	s	290	ASN
1	s	307	GLN
1	s	329	GLN

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Mol	Chain	Res	Type
1	s	346	HIS
1	s	374	ASN
1	s	376	ASN
1	s	414	HIS
1	s	420	ASN
1	s	509	ASN
1	s	560	ASN
1	s	569	ASN
1	s	593	GLN
1	s	631	GLN
1	t	276	HIS
1	t	289	ASN
1	t	290	ASN
1	t	307	GLN
1	t	329	GLN
1	t	336	HIS
1	t	346	HIS
1	t	374	ASN
1	t	376	ASN
1	t	414	HIS
1	t	420	ASN
1	t	509	ASN
1	t	560	ASN
1	t	569	ASN
1	t	593	GLN
1	t	631	GLN
1	u	276	HIS
1	u	289	ASN
1	u	290	ASN
1	u	307	GLN
1	u	329	GLN
1	u	346	HIS
1	u	374	ASN
1	u	376	ASN
1	u	414	HIS
1	u	420	ASN
1	u	509	ASN
1	u	560	ASN
1	u	569	ASN
1	u	593	GLN
1	u	631	GLN
1	v	276	HIS

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Mol	Chain	Res	Type
1	v	289	ASN
1	v	290	ASN
1	v	307	GLN
1	v	329	GLN
1	v	346	HIS
1	v	374	ASN
1	v	376	ASN
1	v	414	HIS
1	v	420	ASN
1	v	509	ASN
1	v	560	ASN
1	v	569	ASN
1	v	593	GLN
1	v	631	GLN
1	w	276	HIS
1	w	289	ASN
1	w	290	ASN
1	w	307	GLN
1	w	329	GLN
1	w	346	HIS
1	w	374	ASN
1	w	376	ASN
1	w	414	HIS
1	w	420	ASN
1	w	509	ASN
1	w	560	ASN
1	w	569	ASN
1	w	593	GLN
1	w	631	GLN
1	x	276	HIS
1	x	289	ASN
1	x	290	ASN
1	x	307	GLN
1	x	329	GLN
1	x	346	HIS
1	x	374	ASN
1	x	376	ASN
1	x	414	HIS
1	x	420	ASN
1	x	509	ASN
1	x	560	ASN
1	x	569	ASN

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Mol	Chain	Res	Type
1	x	593	GLN
1	x	631	GLN
1	y	276	HIS
1	y	289	ASN
1	y	290	ASN
1	y	307	GLN
1	y	329	GLN
1	y	336	HIS
1	y	346	HIS
1	y	374	ASN
1	y	376	ASN
1	y	414	HIS
1	y	420	ASN
1	y	509	ASN
1	y	560	ASN
1	y	569	ASN
1	y	593	GLN
1	y	631	GLN
1	z	276	HIS
1	z	289	ASN
1	z	290	ASN
1	z	307	GLN
1	z	329	GLN
1	z	346	HIS
1	z	374	ASN
1	z	376	ASN
1	z	414	HIS
1	z	420	ASN
1	z	509	ASN
1	z	560	ASN
1	z	593	GLN
1	z	631	GLN
1	1	276	HIS
1	1	289	ASN
1	1	290	ASN
1	1	307	GLN
1	1	329	GLN
1	1	346	HIS
1	1	374	ASN
1	1	376	ASN
1	1	414	HIS
1	1	420	ASN

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Mol	Chain	Res	Type
1	1	509	ASN
1	1	560	ASN
1	1	569	ASN
1	1	593	GLN
1	1	631	GLN
1	2	276	HIS
1	2	289	ASN
1	2	290	ASN
1	2	307	GLN
1	2	329	GLN
1	2	346	HIS
1	2	374	ASN
1	2	376	ASN
1	2	414	HIS
1	2	420	ASN
1	2	509	ASN
1	2	560	ASN
1	2	569	ASN
1	2	593	GLN
1	2	631	GLN
1	3	276	HIS
1	3	289	ASN
1	3	290	ASN
1	3	307	GLN
1	3	329	GLN
1	3	346	HIS
1	3	374	ASN
1	3	376	ASN
1	3	414	HIS
1	3	420	ASN
1	3	509	ASN
1	3	560	ASN
1	3	569	ASN
1	3	593	GLN
1	3	631	GLN
1	4	276	HIS
1	4	289	ASN
1	4	290	ASN
1	4	307	GLN
1	4	329	GLN
1	4	346	HIS
1	4	374	ASN

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Mol	Chain	Res	Type
1	4	376	ASN
1	4	414	HIS
1	4	420	ASN
1	4	509	ASN
1	4	560	ASN
1	4	569	ASN
1	4	593	GLN
1	4	631	GLN
1	5	276	HIS
1	5	289	ASN
1	5	290	ASN
1	5	307	GLN
1	5	329	GLN
1	5	346	HIS
1	5	374	ASN
1	5	376	ASN
1	5	414	HIS
1	5	420	ASN
1	5	509	ASN
1	5	560	ASN
1	5	569	ASN
1	5	593	GLN
1	5	631	GLN
1	6	276	HIS
1	6	289	ASN
1	6	290	ASN
1	6	307	GLN
1	6	329	GLN
1	6	346	HIS
1	6	374	ASN
1	6	376	ASN
1	6	414	HIS
1	6	420	ASN
1	6	509	ASN
1	6	560	ASN
1	6	569	ASN
1	6	593	GLN
1	6	631	GLN
1	7	276	HIS
1	7	289	ASN
1	7	290	ASN
1	7	307	GLN

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Mol	Chain	Res	Type
1	7	329	GLN
1	7	346	HIS
1	7	374	ASN
1	7	376	ASN
1	7	414	HIS
1	7	420	ASN
1	7	509	ASN
1	7	560	ASN
1	7	569	ASN
1	7	593	GLN
1	7	631	GLN
1	8	276	HIS
1	8	289	ASN
1	8	290	ASN
1	8	307	GLN
1	8	329	GLN
1	8	346	HIS
1	8	374	ASN
1	8	376	ASN
1	8	414	HIS
1	8	420	ASN
1	8	509	ASN
1	8	560	ASN
1	8	569	ASN
1	8	593	GLN
1	8	631	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	B	1
1	C	1
1	D	1
1	R	1
1	V	1
1	W	1
1	b	1
1	e	1
1	g	1
1	i	1
1	k	1
1	l	1
1	p	1
1	w	1
1	x	1
1	2	1
1	4	1
1	6	1
1	7	1
1	8	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	391:PHE	C	392:PRO	N	1.20
1	C	391:PHE	C	392:PRO	N	1.20
1	D	391:PHE	C	392:PRO	N	1.20
1	R	391:PHE	C	392:PRO	N	1.20
1	V	391:PHE	C	392:PRO	N	1.20
1	W	391:PHE	C	392:PRO	N	1.20

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	b	391:PHE	C	392:PRO	N	1.20
1	e	391:PHE	C	392:PRO	N	1.20
1	g	391:PHE	C	392:PRO	N	1.20
1	i	391:PHE	C	392:PRO	N	1.20
1	k	391:PHE	C	392:PRO	N	1.20
1	l	391:PHE	C	392:PRO	N	1.20
1	p	391:PHE	C	392:PRO	N	1.20
1	w	391:PHE	C	392:PRO	N	1.20
1	x	391:PHE	C	392:PRO	N	1.20
1	2	391:PHE	C	392:PRO	N	1.20
1	4	391:PHE	C	392:PRO	N	1.20
1	6	391:PHE	C	392:PRO	N	1.20
1	7	391:PHE	C	392:PRO	N	1.20
1	8	391:PHE	C	392:PRO	N	1.20

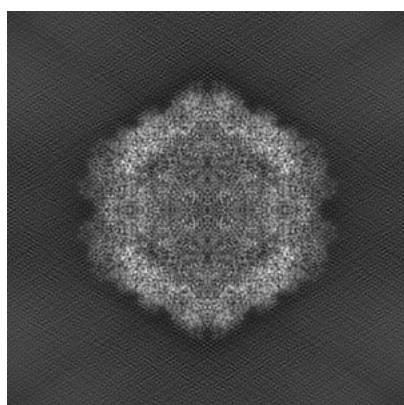
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-21657. These allow visual inspection of the internal detail of the map and identification of artifacts.

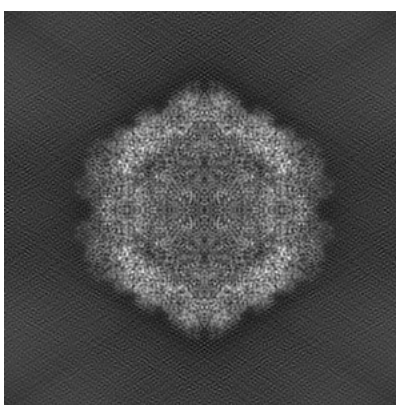
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

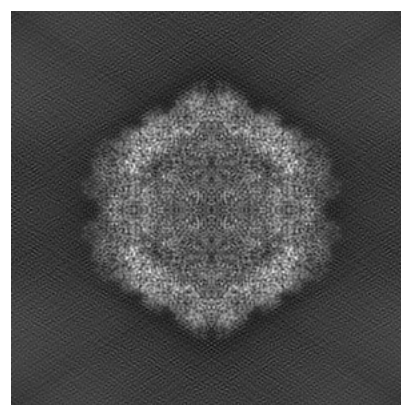
6.1.1 Primary map



X



Y

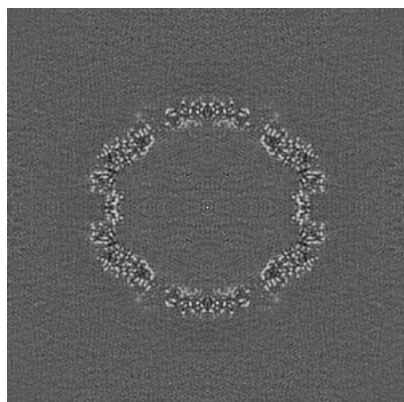


Z

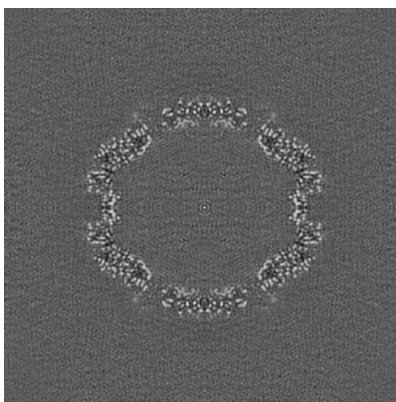
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

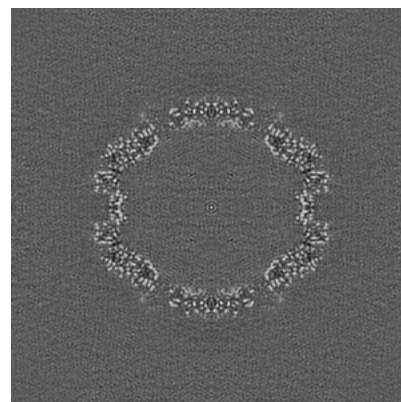
6.2.1 Primary map



X Index: 200



Y Index: 200

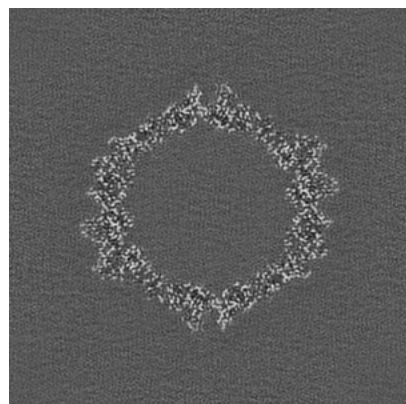


Z Index: 200

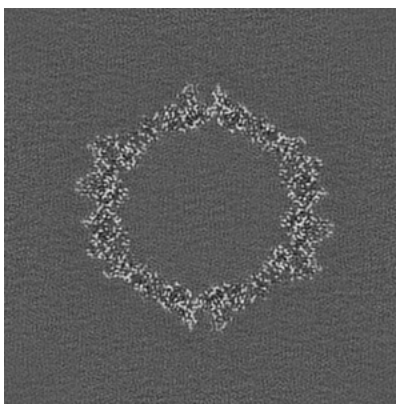
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

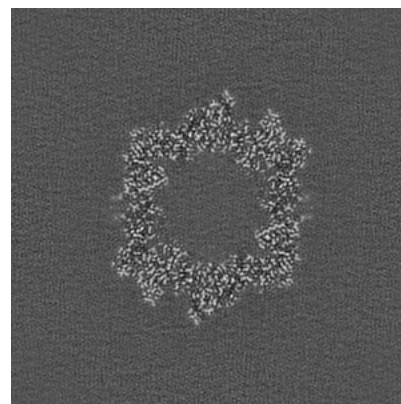
6.3.1 Primary map



X Index: 214



Y Index: 186

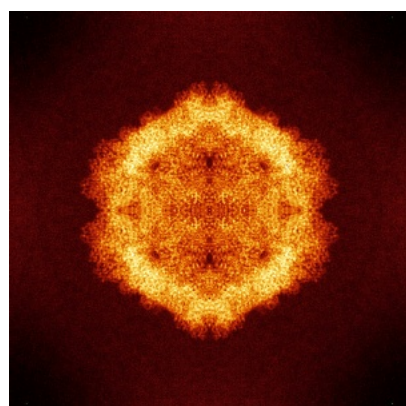


Z Index: 262

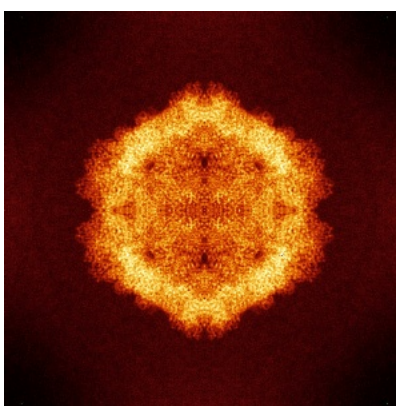
The images above show the largest variance slices of the map in three orthogonal directions.

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

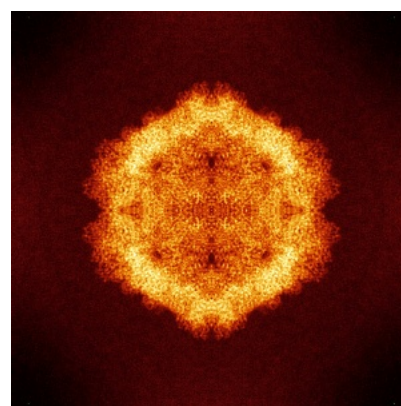
6.4.1 Primary map



X



Y

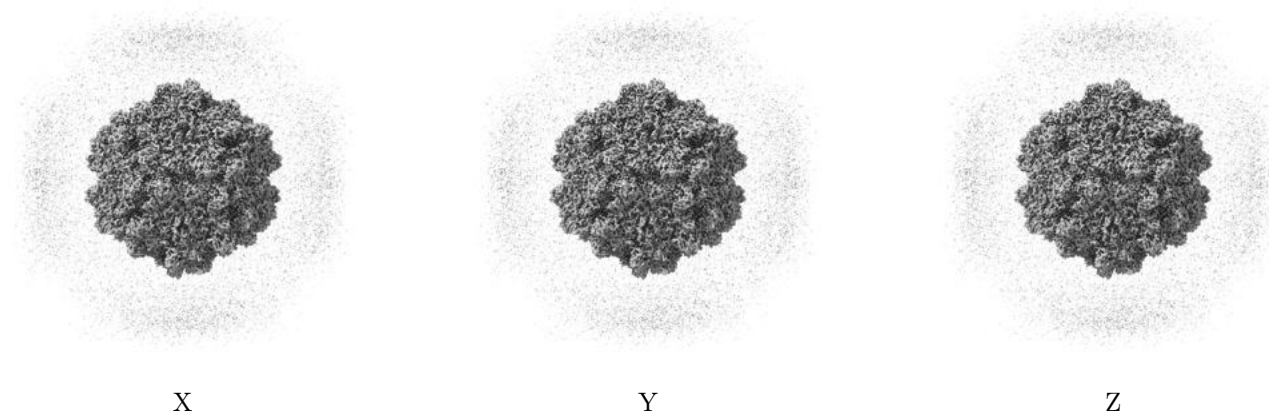


Z

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.

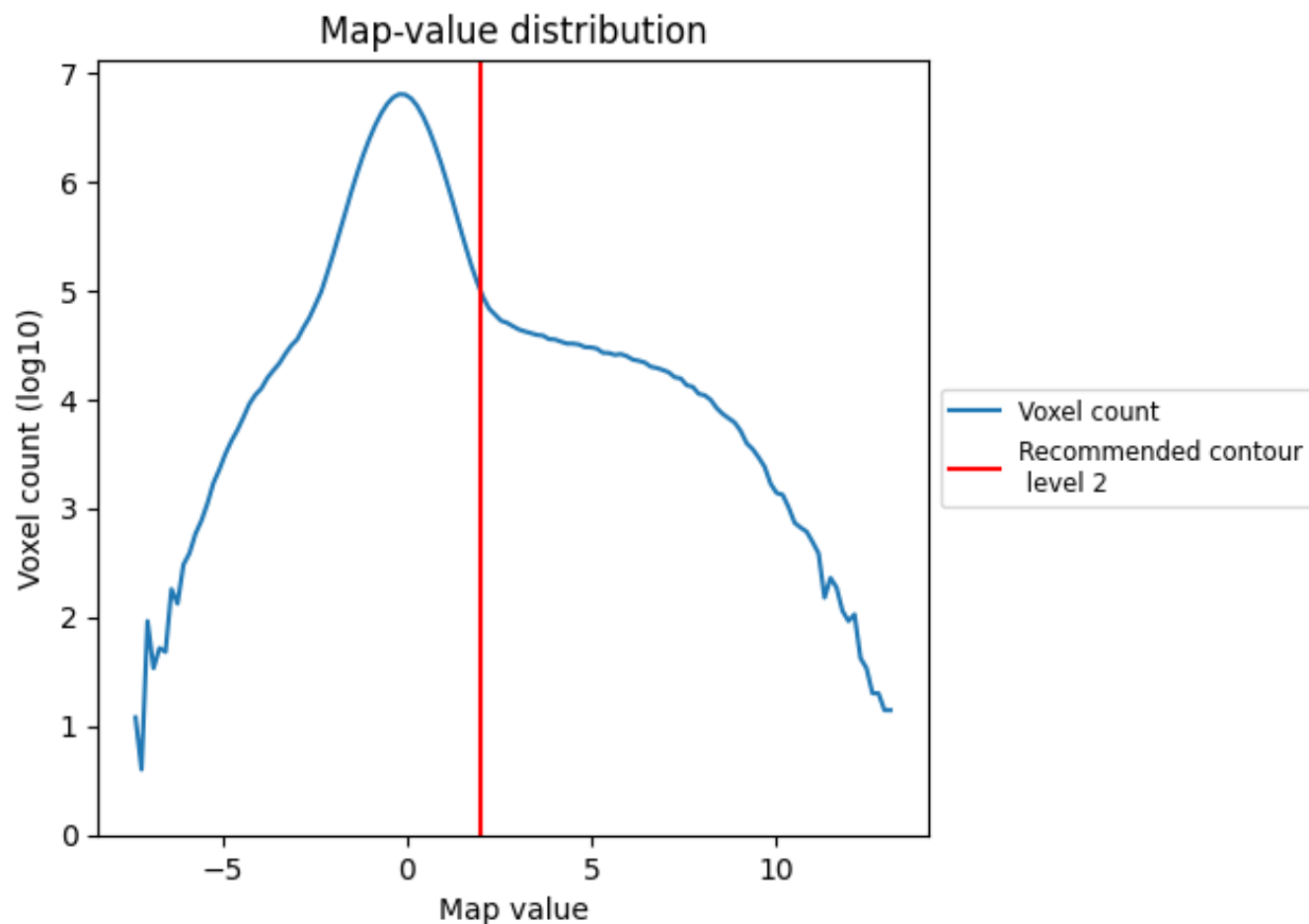
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

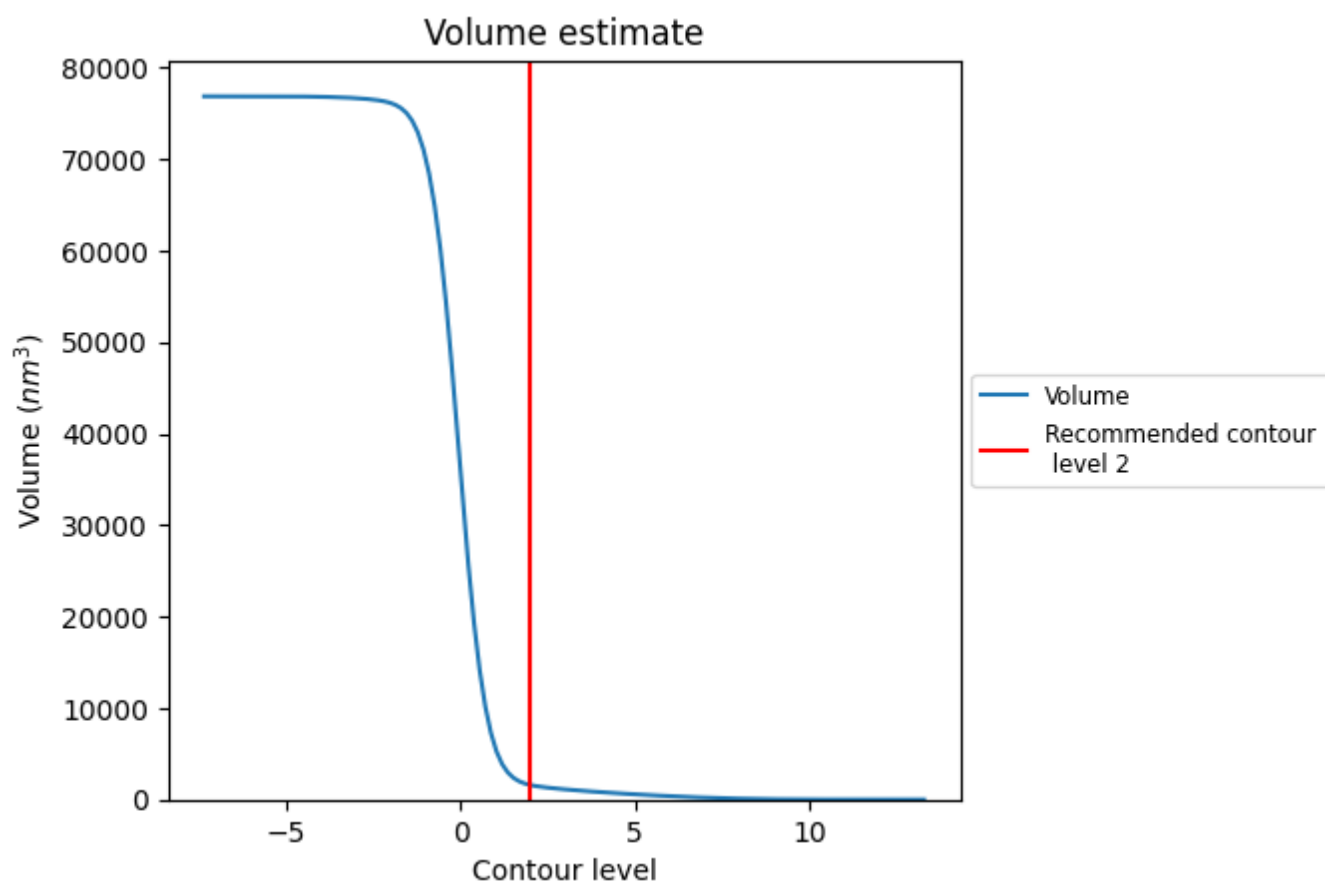
This section contains the results of statistical analysis of the map.

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.

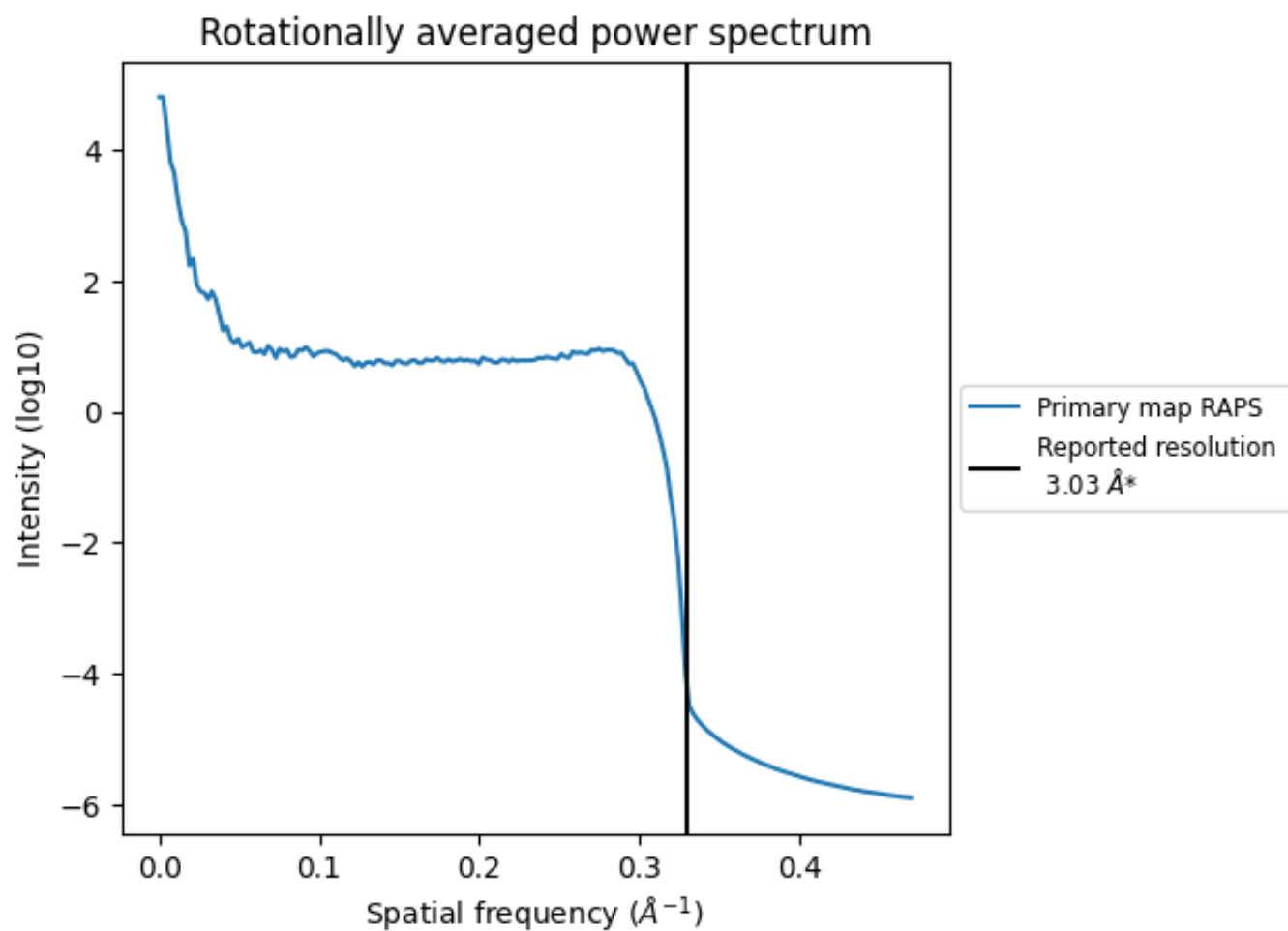
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1591 nm³; this corresponds to an approximate mass of 1437 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 0.330 Å⁻¹

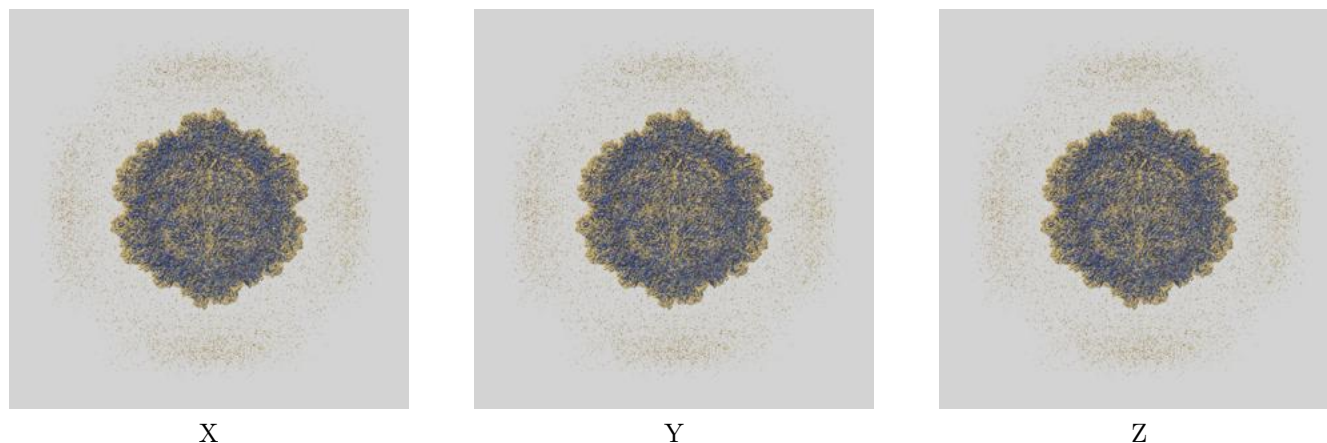
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

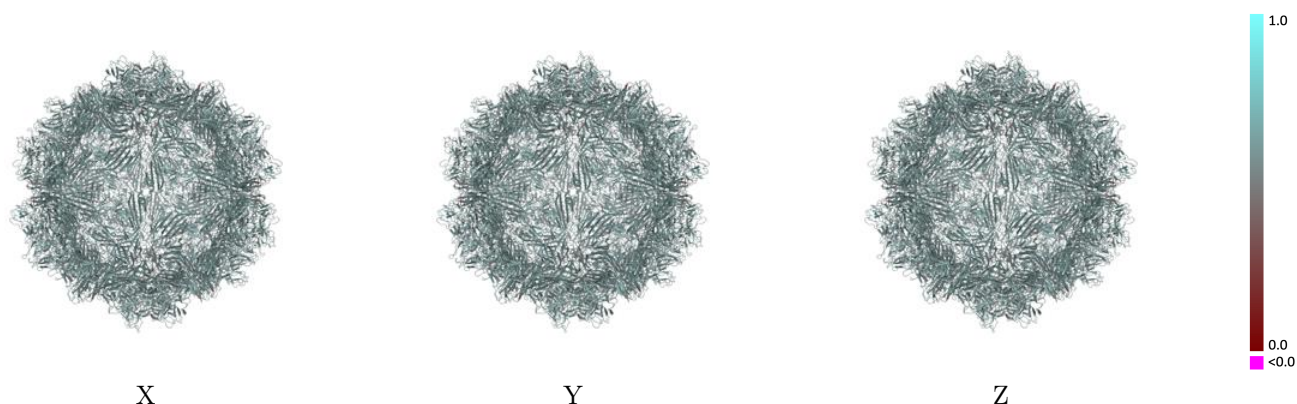
This section contains information regarding the fit between EMDB map EMD-21657 and PDB model 6WFU. Per-residue inclusion information can be found in section [3](#) on page [10](#).

9.1 Map-model overlay [i](#)



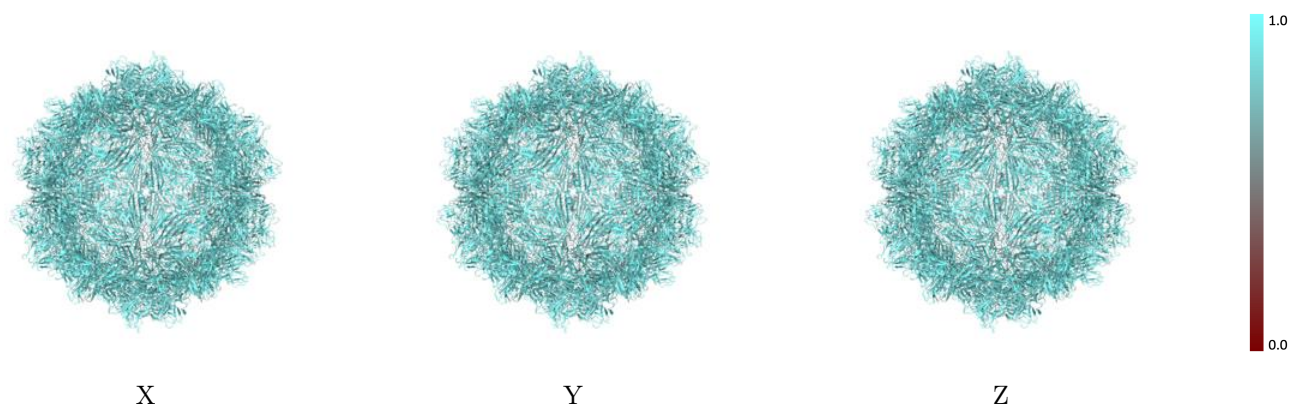
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



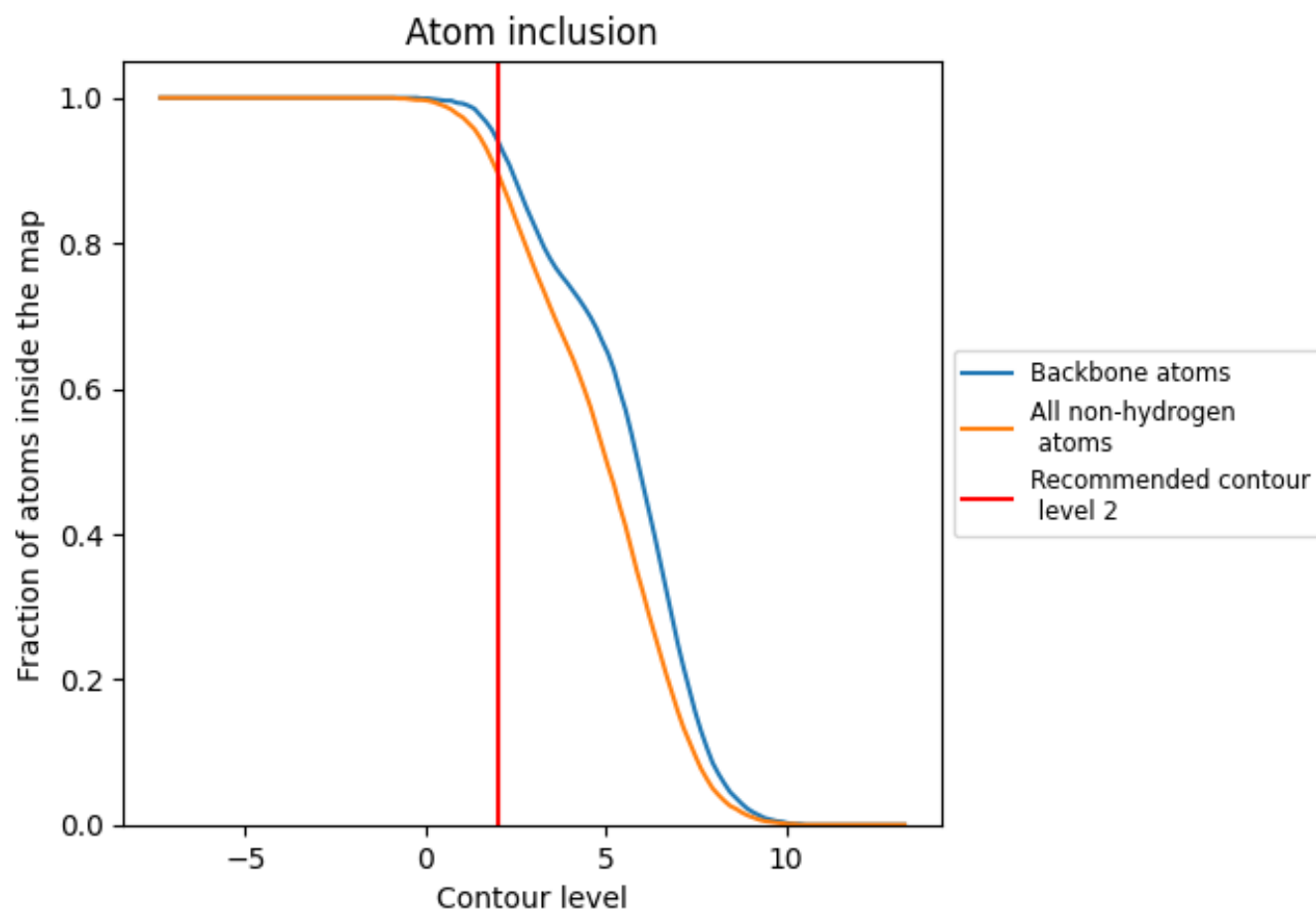
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 90% 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	 0.8970	 0.5740
1	 0.9000	 0.5740
2	 0.8980	 0.5740
3	 0.8960	 0.5740
4	 0.8940	 0.5750
5	 0.8960	 0.5740
6	 0.8960	 0.5730
7	 0.8960	 0.5740
8	 0.8980	 0.5750
A	 0.8970	 0.5740
B	 0.9000	 0.5740
C	 0.8950	 0.5740
D	 0.8970	 0.5730
E	 0.8980	 0.5730
F	 0.8970	 0.5740
G	 0.8980	 0.5730
H	 0.8970	 0.5740
I	 0.8950	 0.5740
J	 0.9000	 0.5740
K	 0.8940	 0.5740
L	 0.8990	 0.5750
M	 0.8980	 0.5730
N	 0.8970	 0.5740
O	 0.8980	 0.5740
P	 0.8970	 0.5730
Q	 0.8950	 0.5730
R	 0.9000	 0.5760
S	 0.9000	 0.5750
T	 0.8940	 0.5740
U	 0.8990	 0.5750
V	 0.8950	 0.5740
W	 0.8970	 0.5740
X	 0.8980	 0.5730
Y	 0.8970	 0.5740
Z	 0.8980	 0.5750



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Chain	Atom inclusion	Q-score
a	 0.8960	 0.5740
b	 0.8960	 0.5750
c	 0.8960	 0.5750
d	 0.8960	 0.5740
e	 0.8960	 0.5750
f	 0.8960	 0.5740
g	 0.8930	 0.5740
h	 0.8980	 0.5740
i	 0.8960	 0.5730
j	 0.8960	 0.5740
k	 0.8960	 0.5730
l	 0.8980	 0.5740
m	 0.8940	 0.5740
n	 0.8960	 0.5750
o	 0.8980	 0.5730
p	 0.8930	 0.5740
q	 0.9000	 0.5740
r	 0.8980	 0.5740
s	 0.8990	 0.5750
t	 0.8970	 0.5730
u	 0.8930	 0.5730
v	 0.8950	 0.5740
w	 0.8970	 0.5730
x	 0.8930	 0.5730
y	 0.8950	 0.5740
z	 0.8970	 0.5740