



Full wwPDB EM Validation Report ⓘ

May 19, 2025 – 09:58 AM EDT

PDB ID : 7L0X / pdb_00007l0x
EMDB ID : EMD-23107
Title : Human Bocavirus 2 (pH 2.6)
Authors : Luo, M.; Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2020-12-13
Resolution : 2.51 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

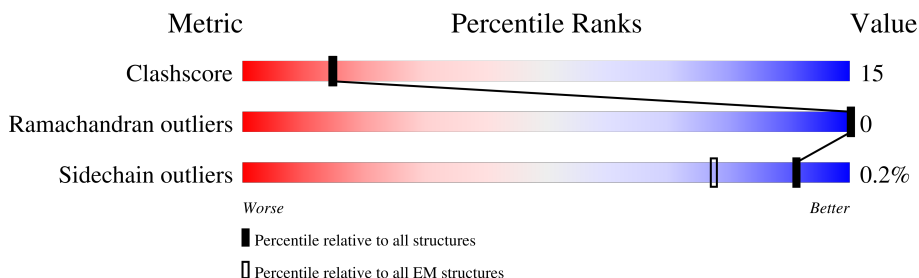
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.51 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.



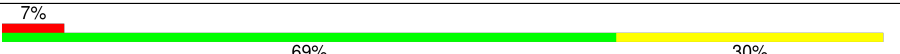
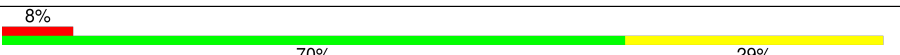
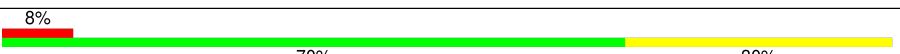
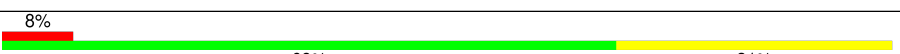
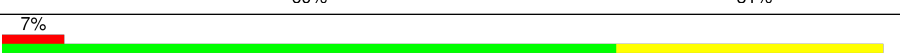
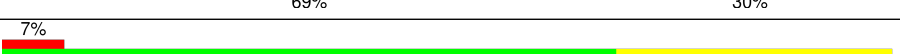
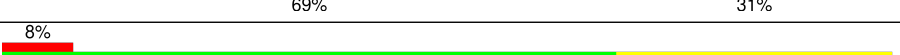
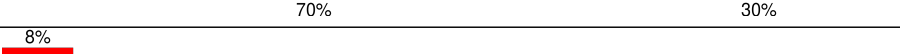
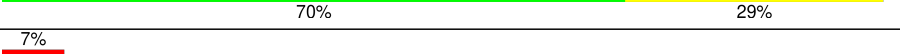
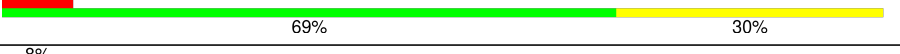
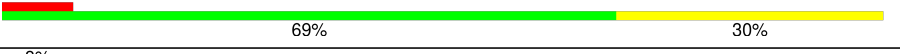
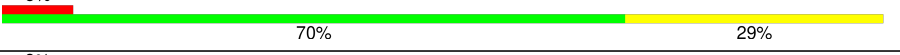
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	516	8% 71% 29%
1	2	516	8% 69% 30%
1	3	516	8% 70% 30%
1	4	516	8% 69% 31%
1	5	516	7% 69% 30%
1	6	516	7% 69% 30%
1	7	516	7% 69% 31%
1	8	516	8% 70% 30%

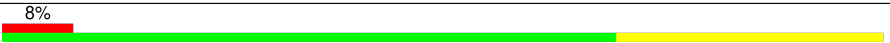
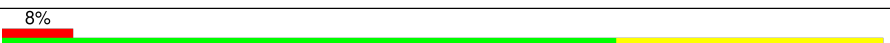
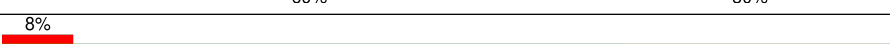
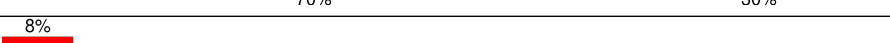
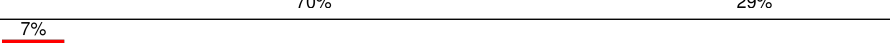
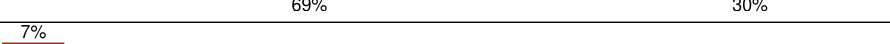
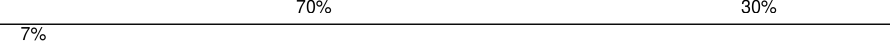
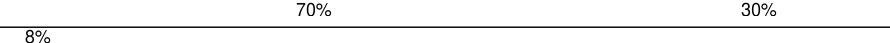
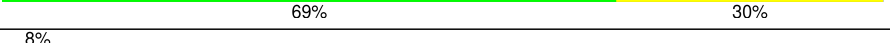
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Mol	Chain	Length	Quality of chain	
1	A	516		
1	B	516		
1	C	516		
1	D	516		
1	E	516		
1	F	516		
1	G	516		
1	H	516		
1	I	516		
1	J	516		
1	K	516		
1	L	516		
1	M	516		
1	N	516		
1	O	516		
1	P	516		
1	Q	516		
1	R	516		
1	S	516		
1	T	516		
1	U	516		
1	V	516		
1	W	516		
1	X	516		
1	Y	516		

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Mol	Chain	Length	Quality of chain	
1	Z	516		
1	a	516		
1	b	516		
1	c	516		
1	d	516		
1	e	516		
1	f	516		
1	g	516		
1	h	516		
1	i	516		
1	j	516		
1	k	516		
1	l	516		
1	m	516		
1	n	516		
1	o	516		
1	p	516		
1	q	516		
1	r	516		
1	s	516		
1	t	516		
1	u	516		
1	v	516		
1	w	516		
1	x	516		

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Mol	Chain	Length	Quality of chain
1	y	516	8% 69% 31%
1	z	516	8% 69% 30%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 246480 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 VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	B	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	C	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	D	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	E	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	F	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	G	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	H	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	I	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	J	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	K	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	L	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	M	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	N	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	O	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	P	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		
1	Q	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	S	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	T	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	U	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	V	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	W	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	X	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	Y	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	Z	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	a	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	b	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	c	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	d	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	e	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	f	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	g	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	h	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	i	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	j	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	k	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	l	516	Total 4108	C 2602	N 708	O 777	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	n	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	o	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	p	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	q	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	r	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	s	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	t	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	u	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	v	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	w	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	x	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	y	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	z	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	1	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	2	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	3	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	4	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	5	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	6	516	Total 4108	C 2602	N 708	O 777	S 21	0	0
1	7	516	Total 4108	C 2602	N 708	O 777	S 21	0	0

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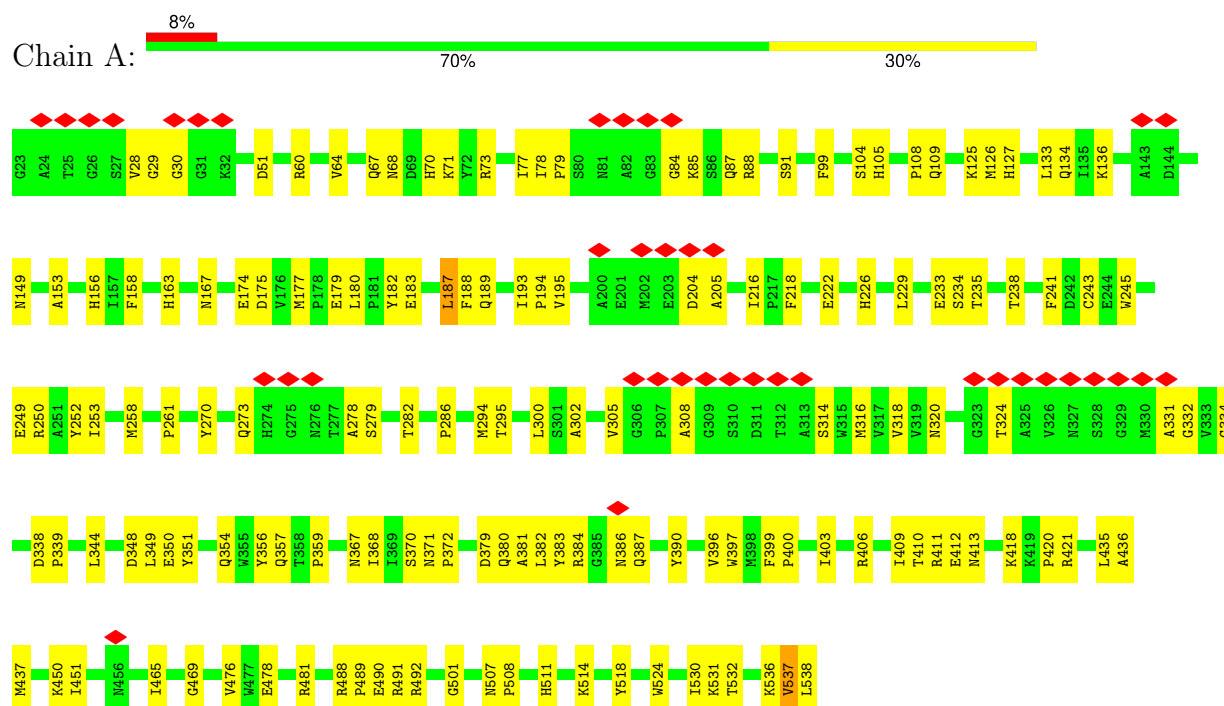
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	516	Total	C	N	O	S	0	0
			4108	2602	708	777	21		

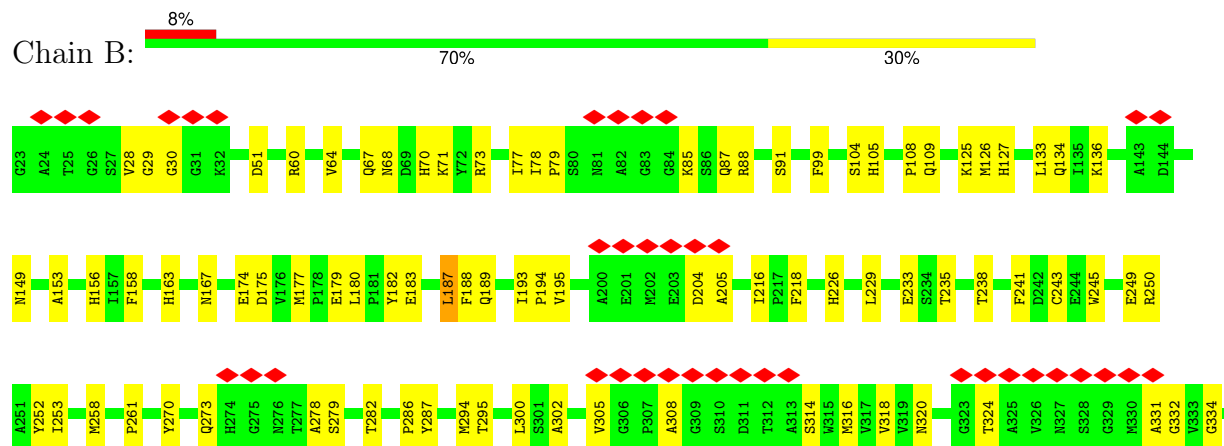
3 Residue-property plots

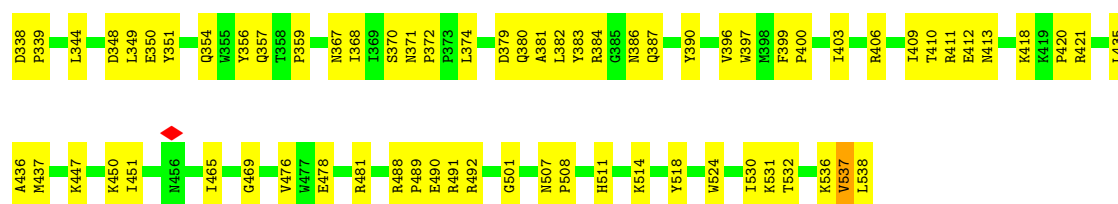
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: VP2

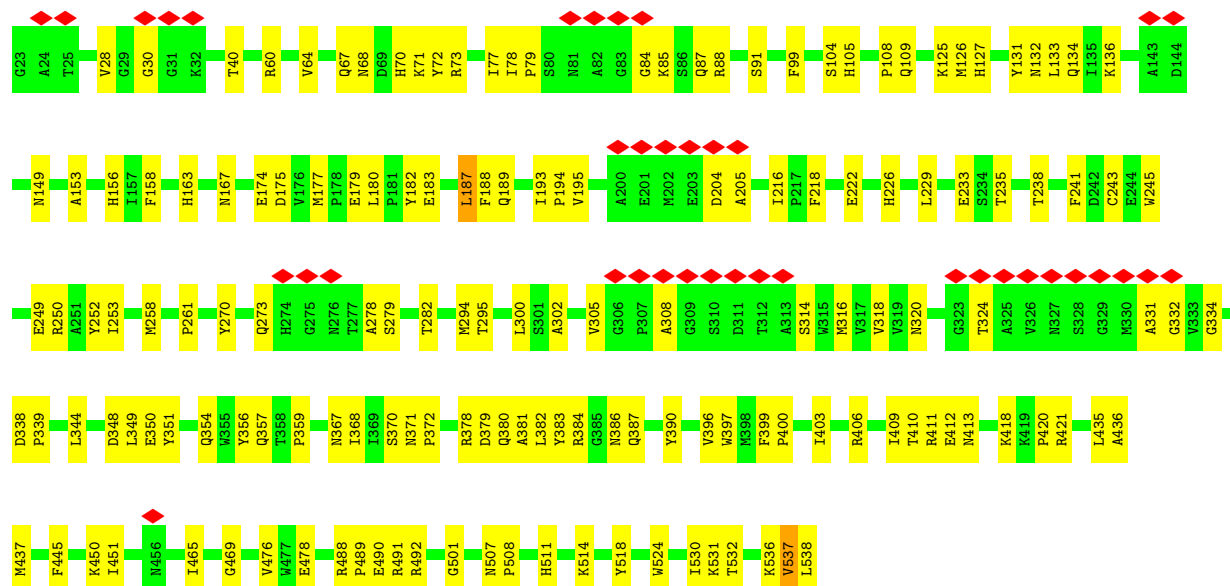


• Molecule 1: VP2

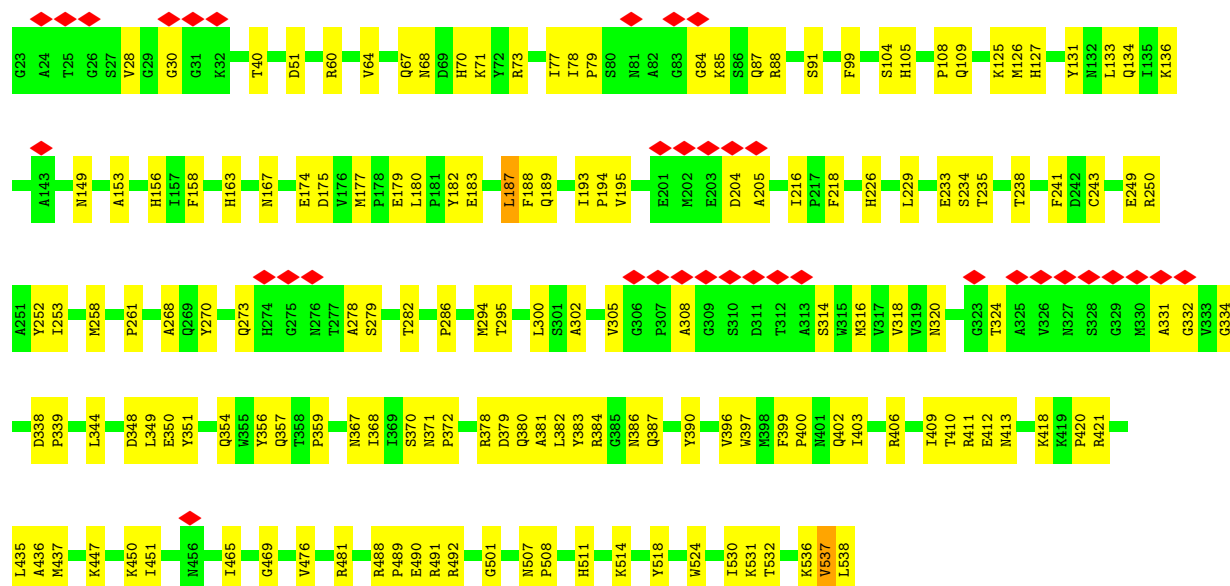




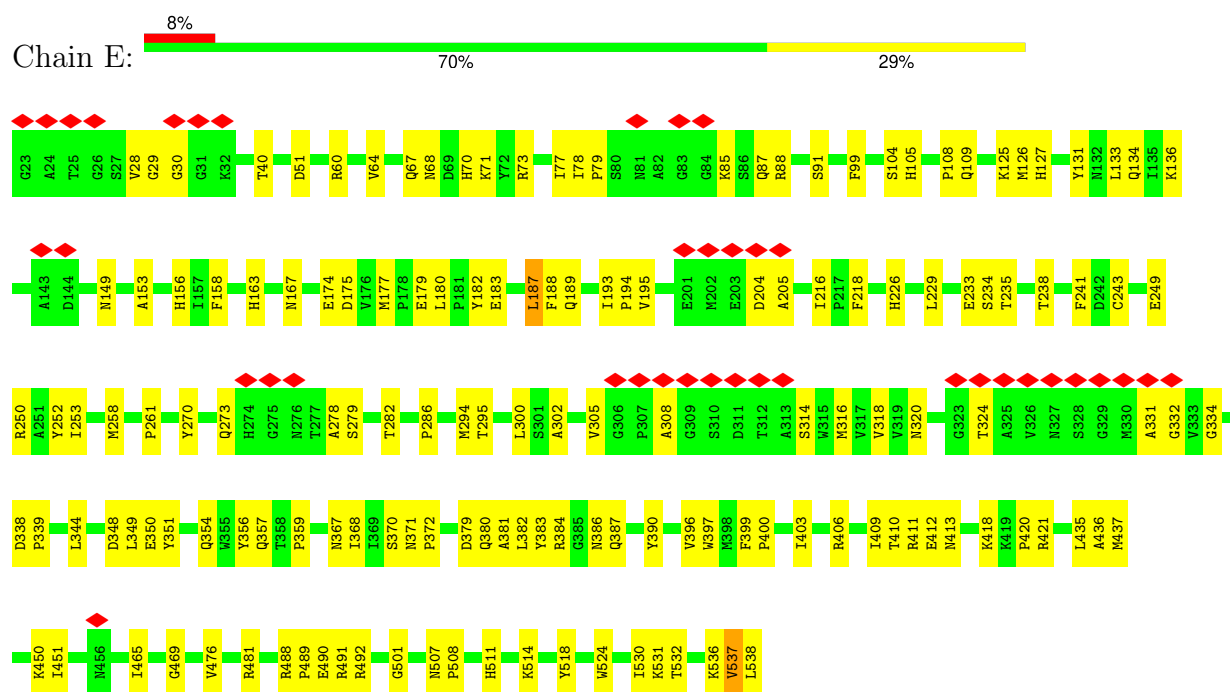
• Molecule 1: VP2



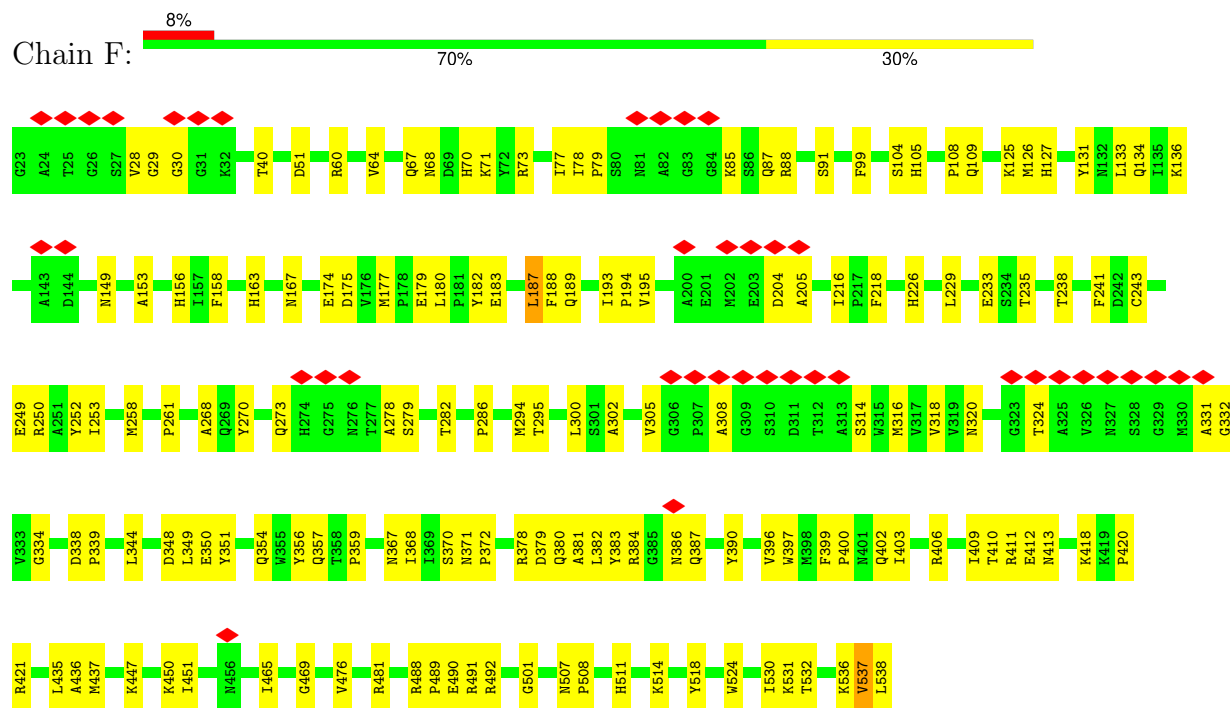
• Molecule 1: VP2



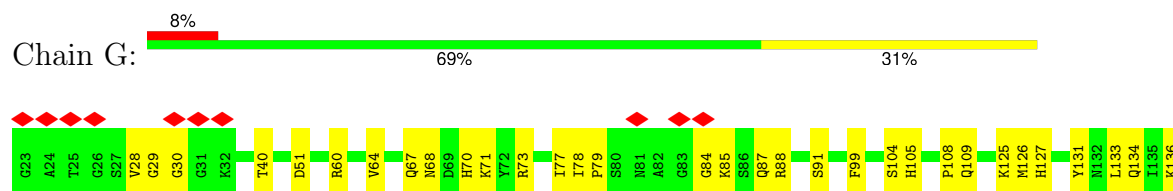
• Molecule 1: VP2

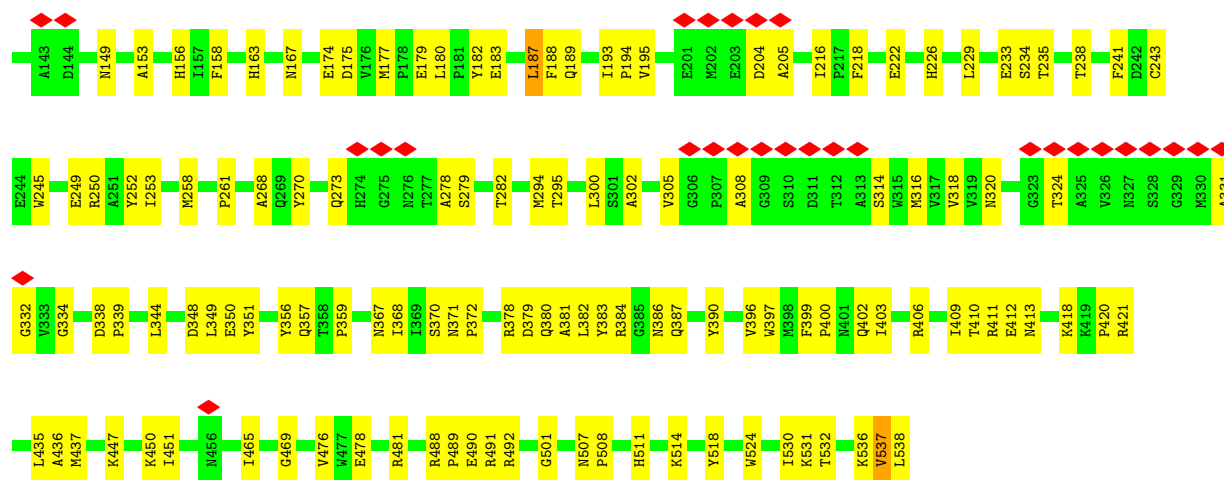


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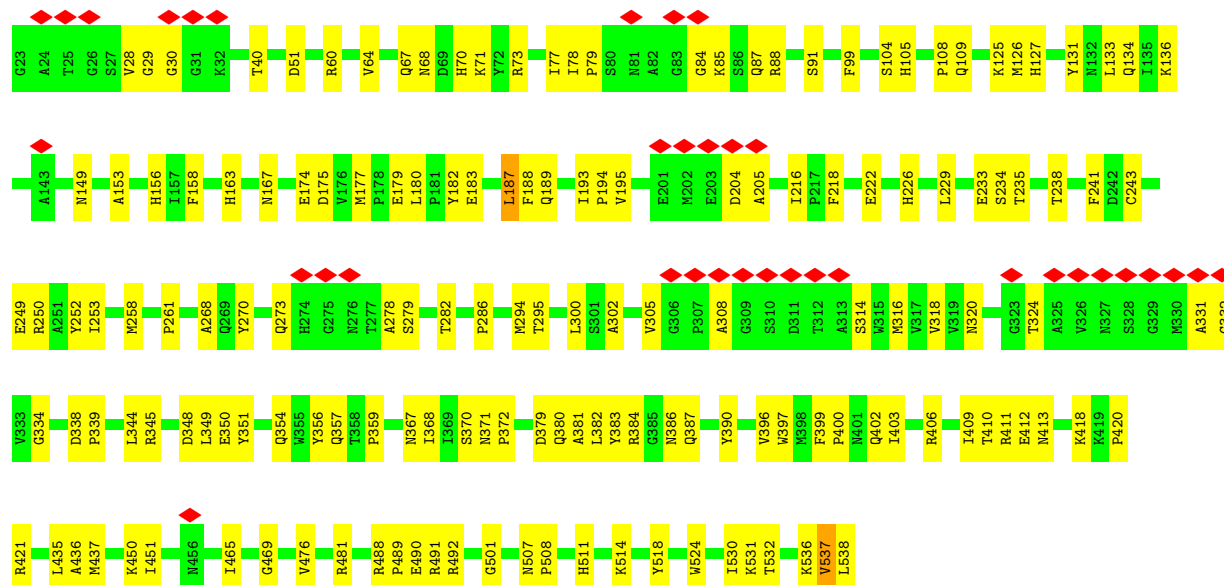


• Molecule 1: VP2

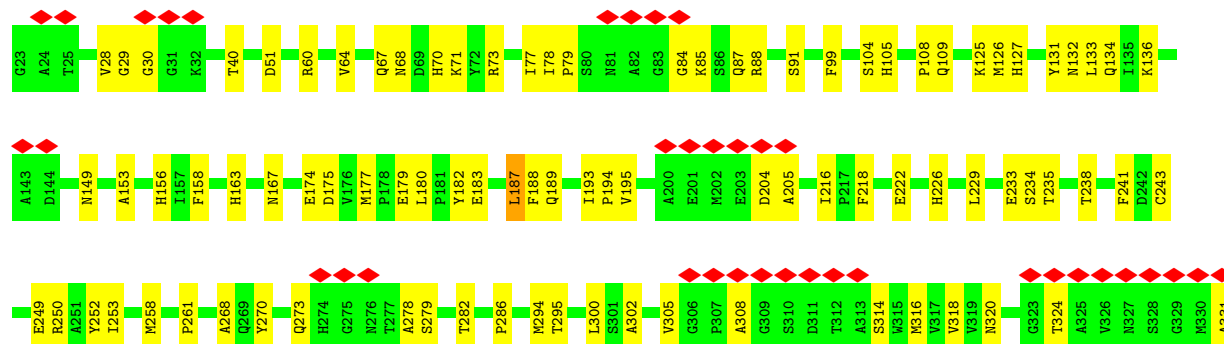


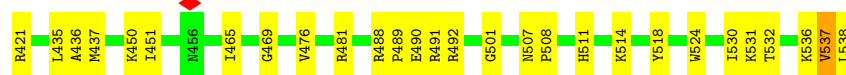
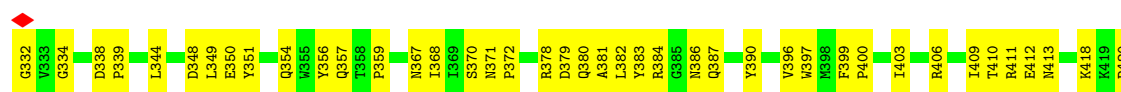


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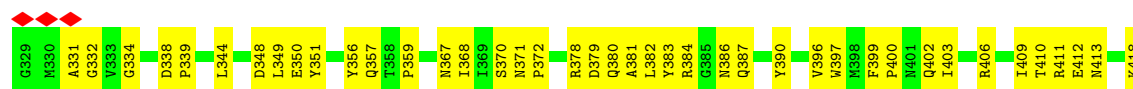
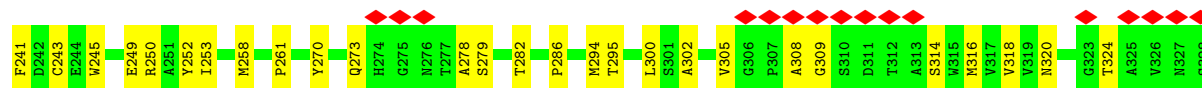


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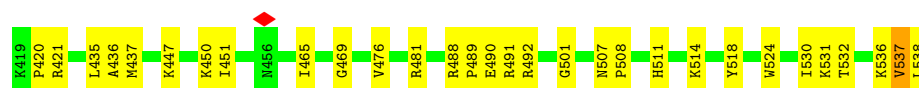
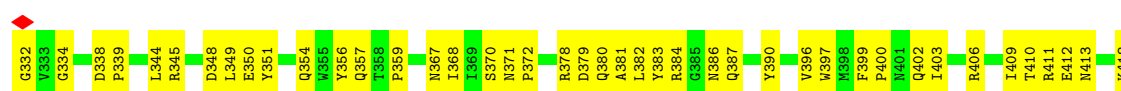
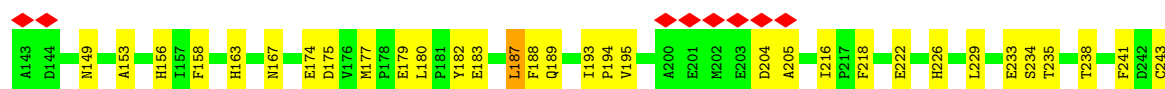
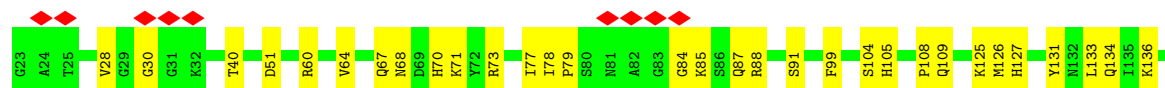




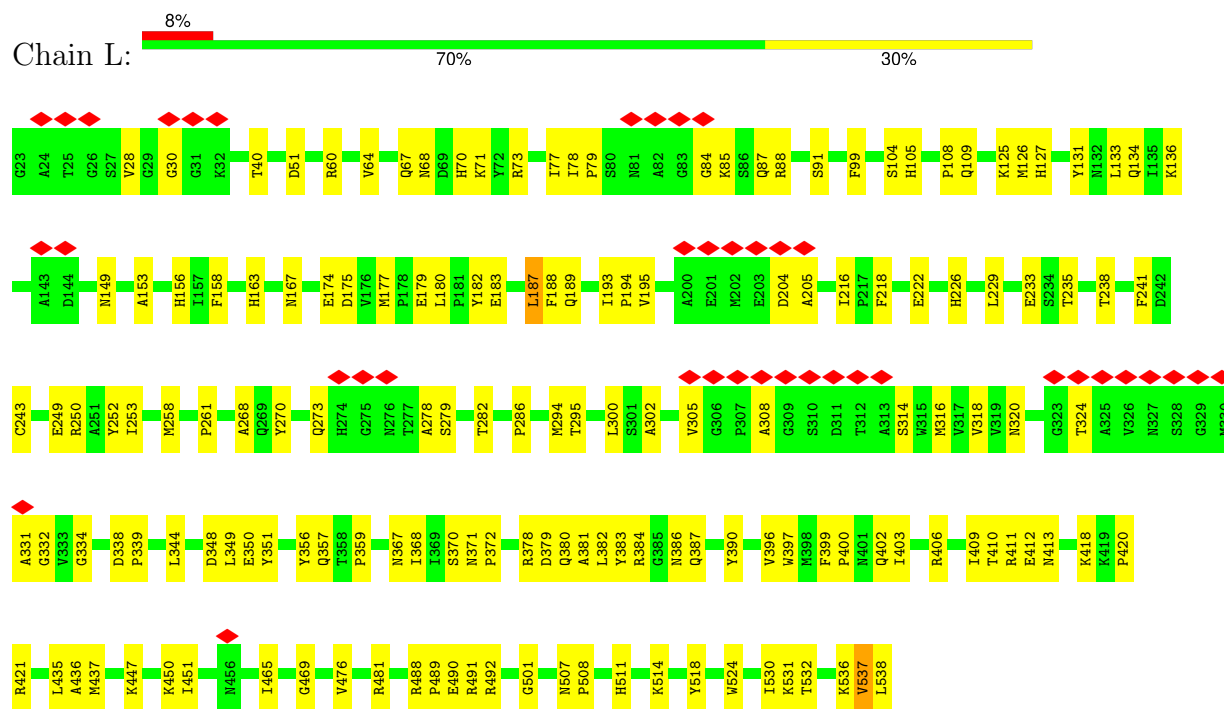
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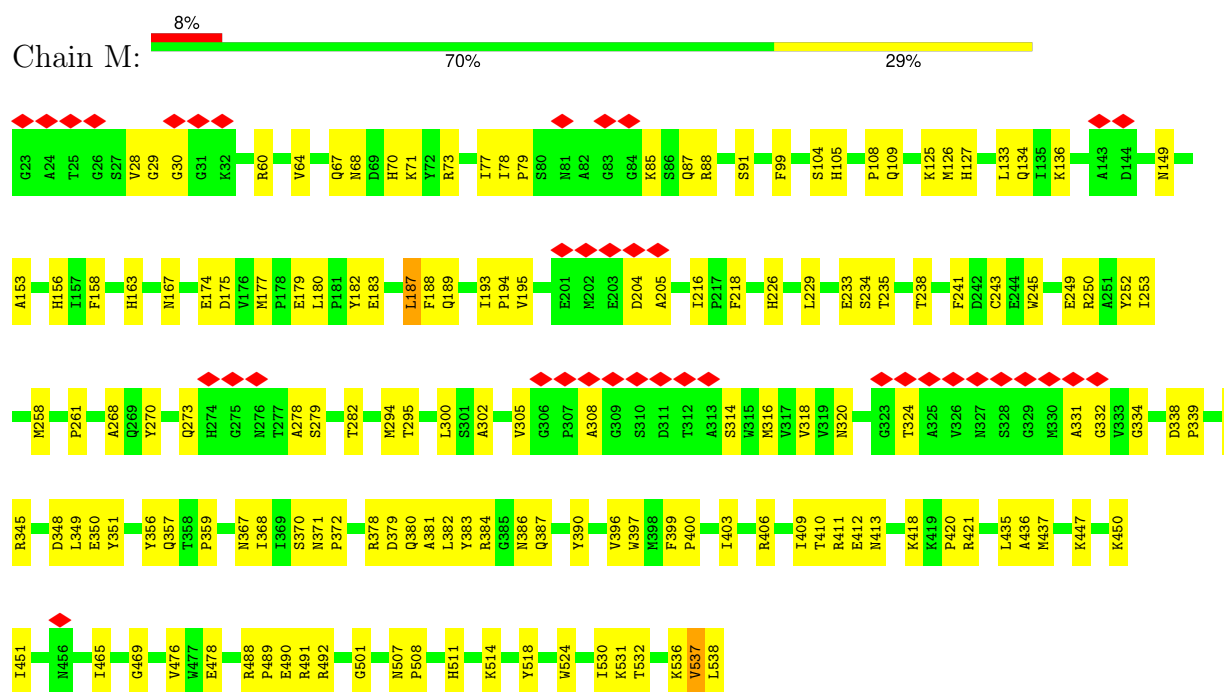
• Molecule 1: VP2



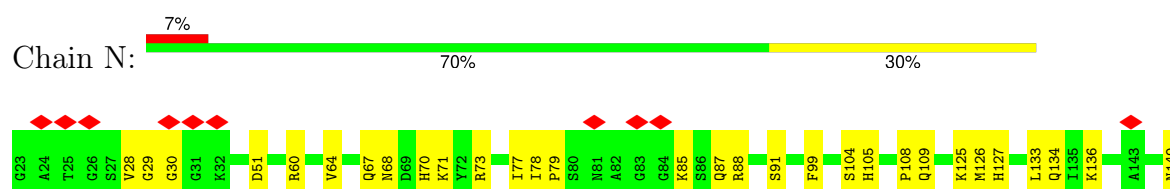
- Molecule 1: VP2

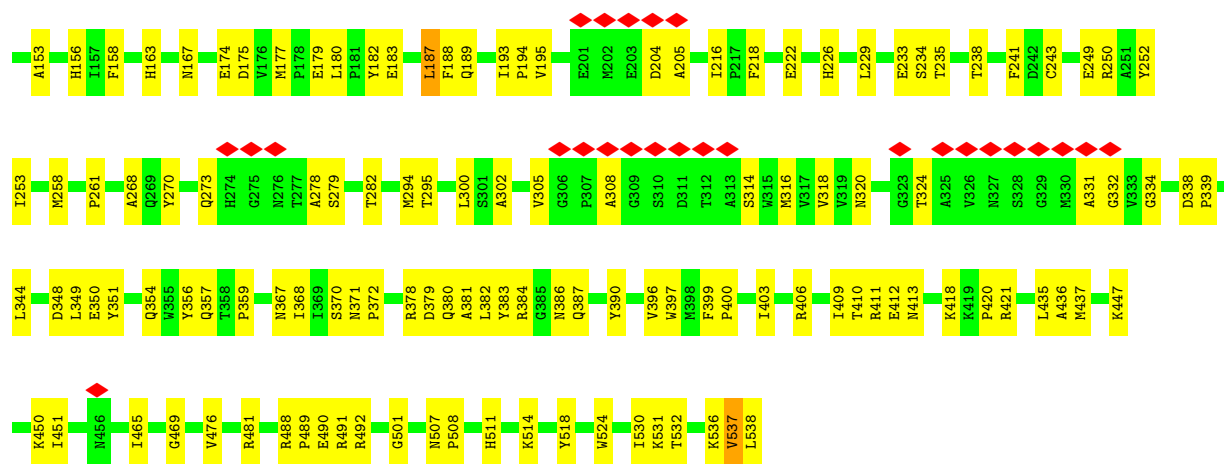


- Molecule 1: VP2

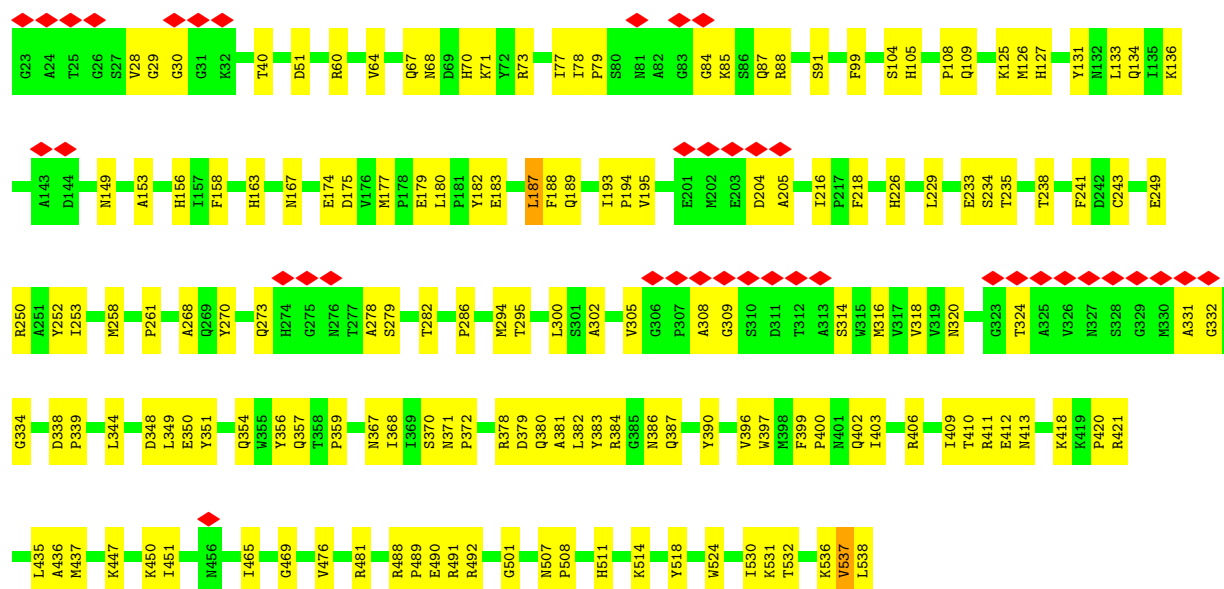


- Molecule 1: VP2

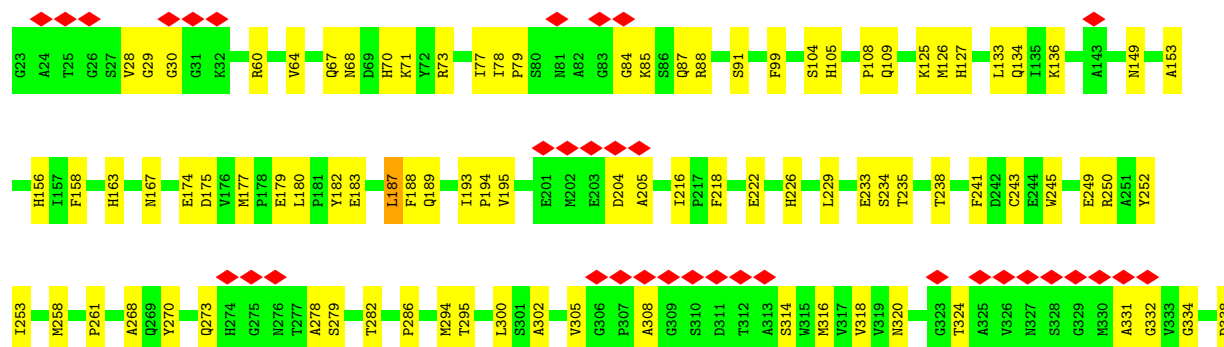


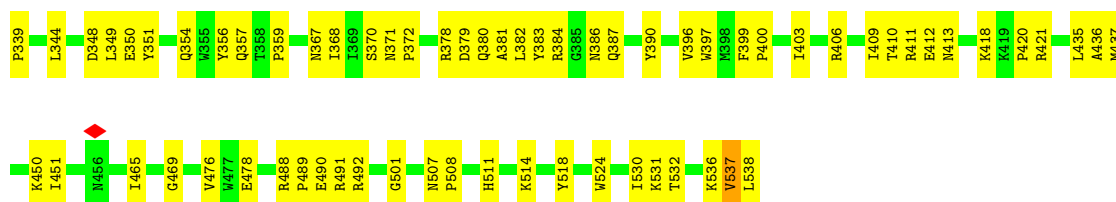


• Molecule 1: VP2

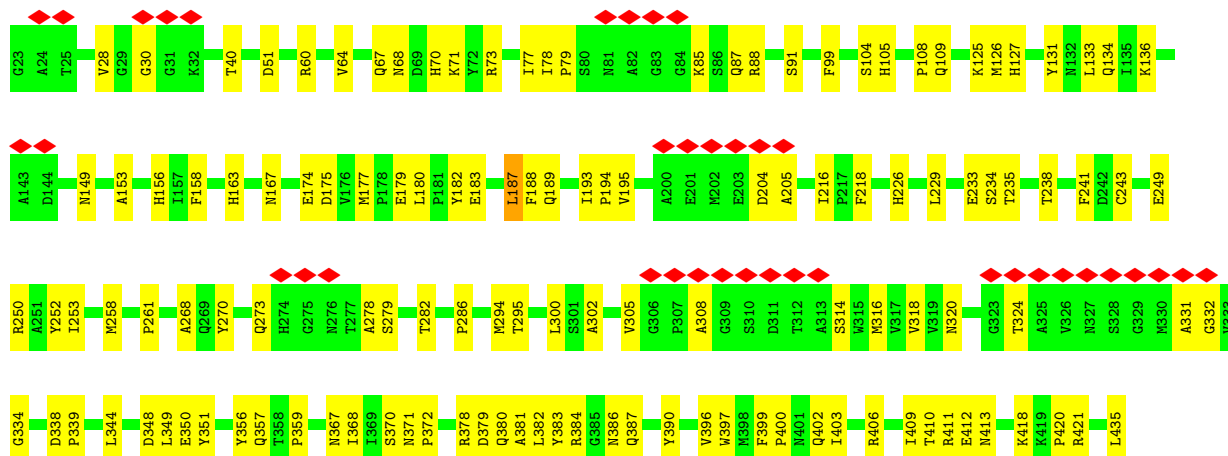


• Molecule 1: VP2

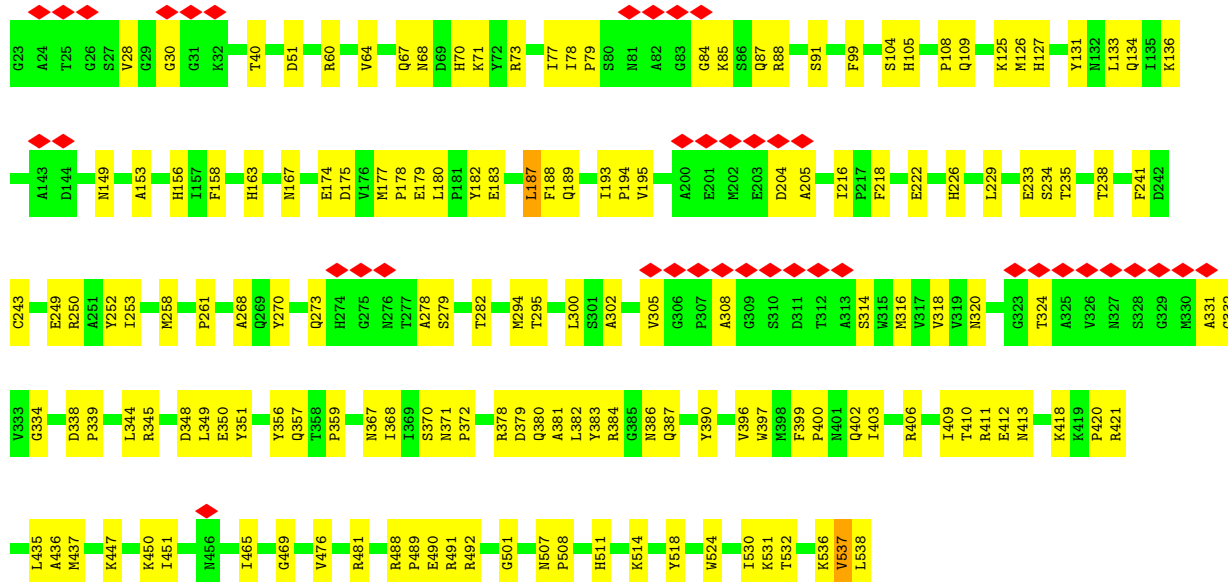




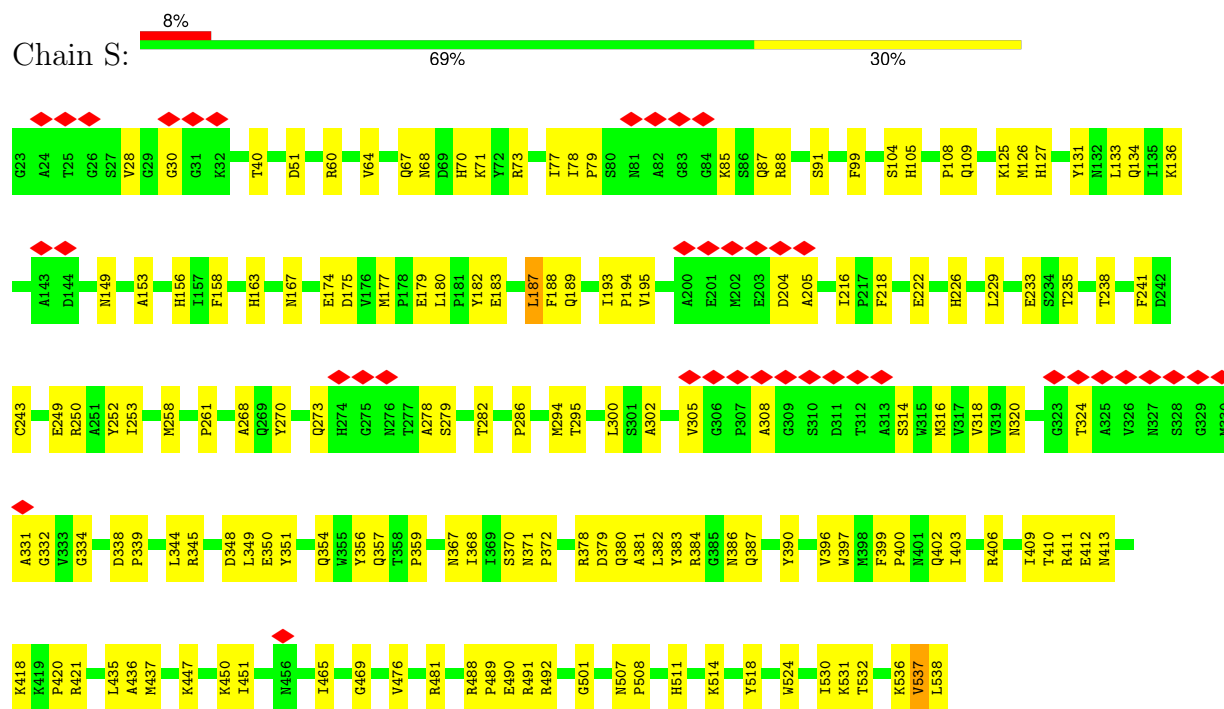
• Molecule 1: VP2



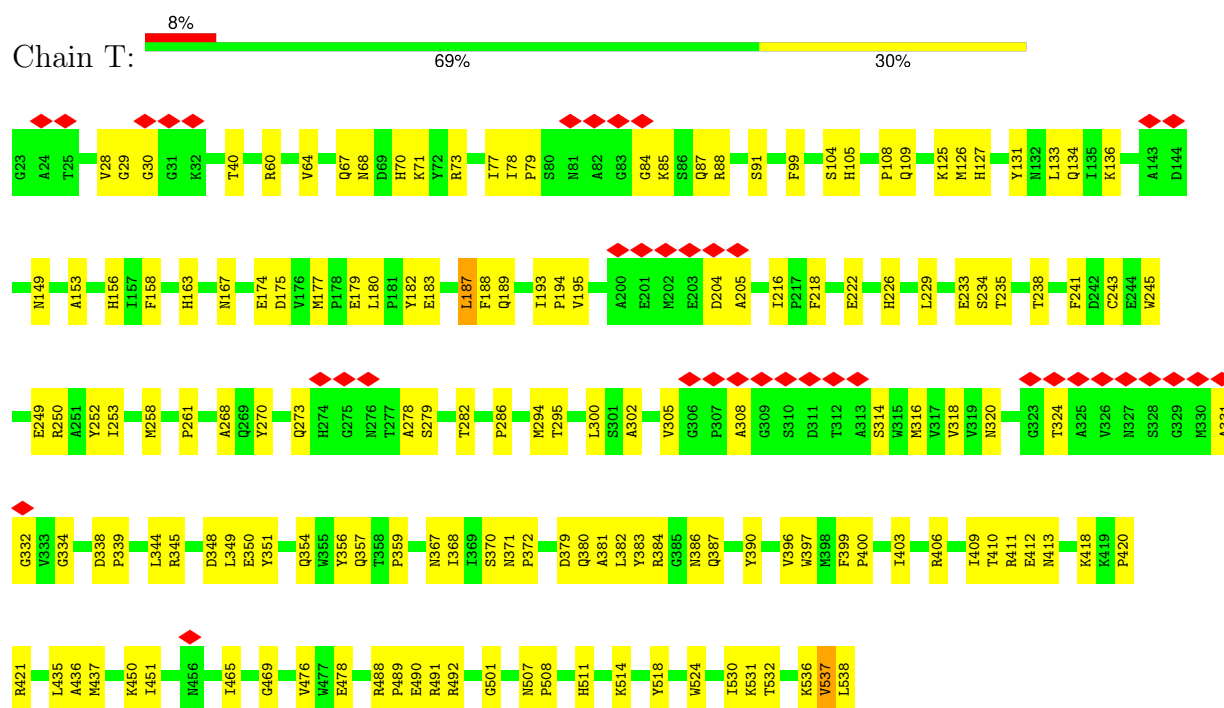
• Molecule 1: VP2



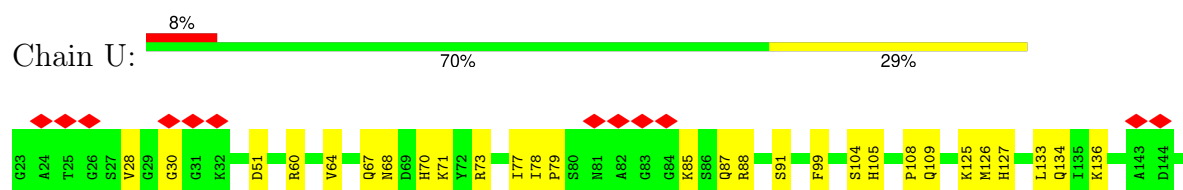
- Molecule 1: VP2

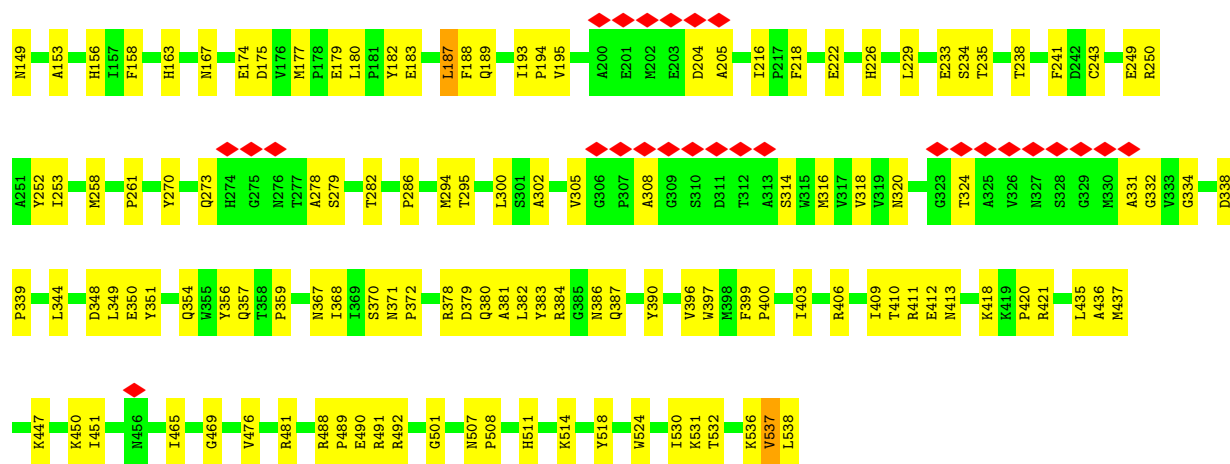


- Molecule 1: VP2

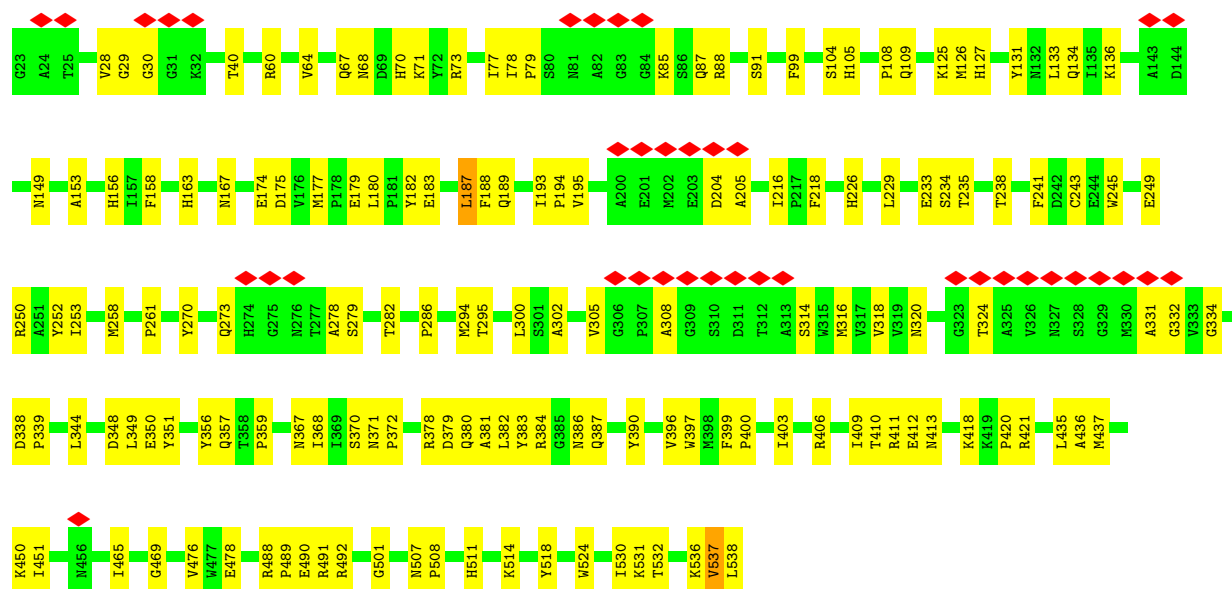


- Molecule 1: VP2

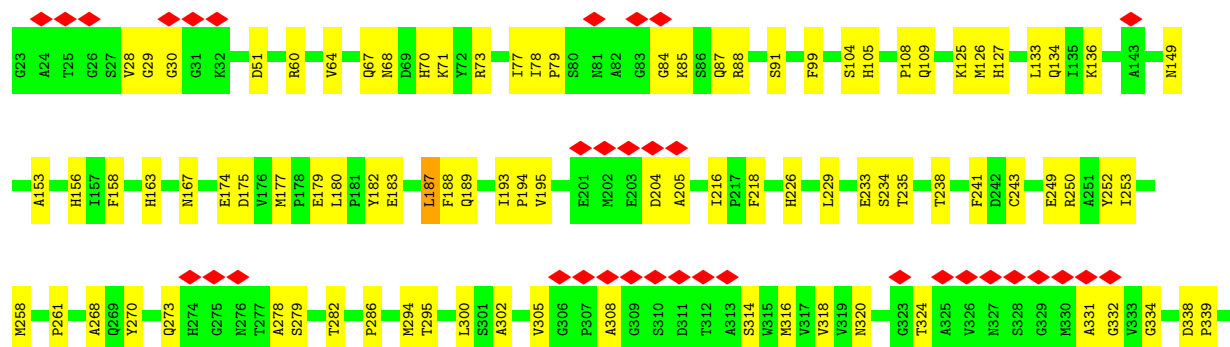


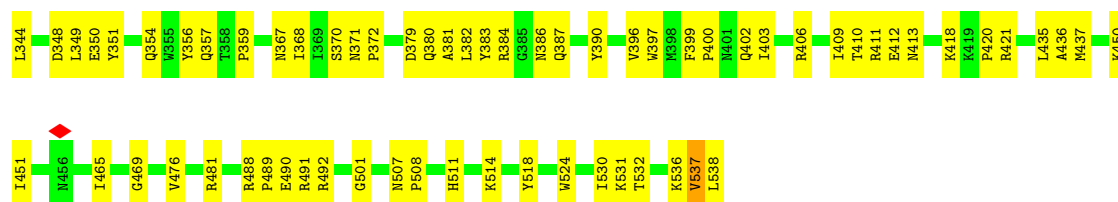


• Molecule 1: VP2

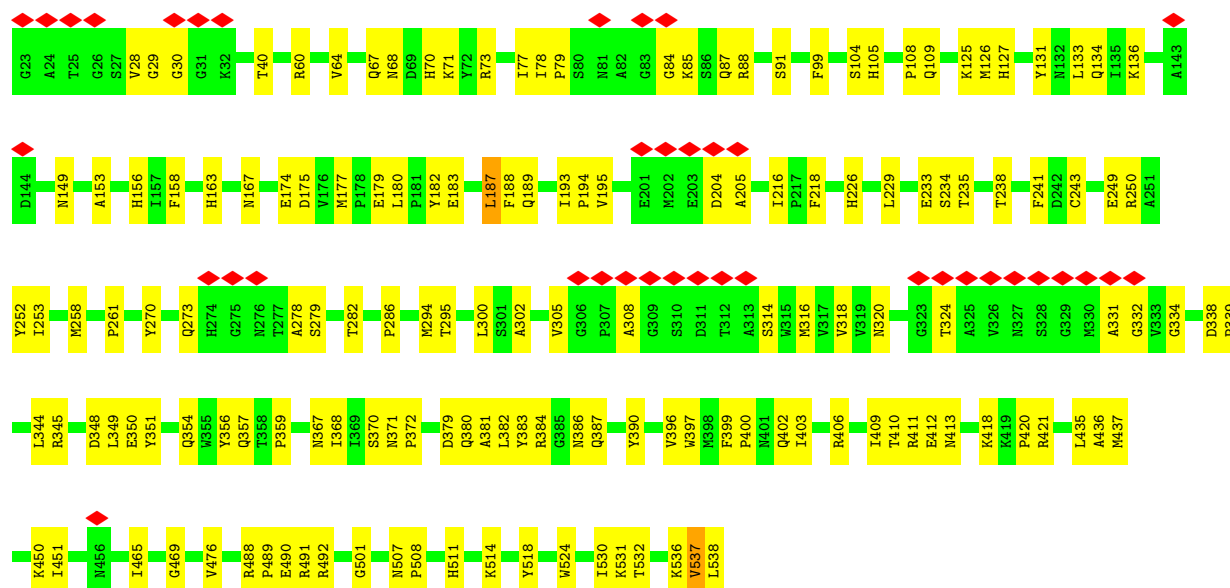


• Molecule 1: VP2

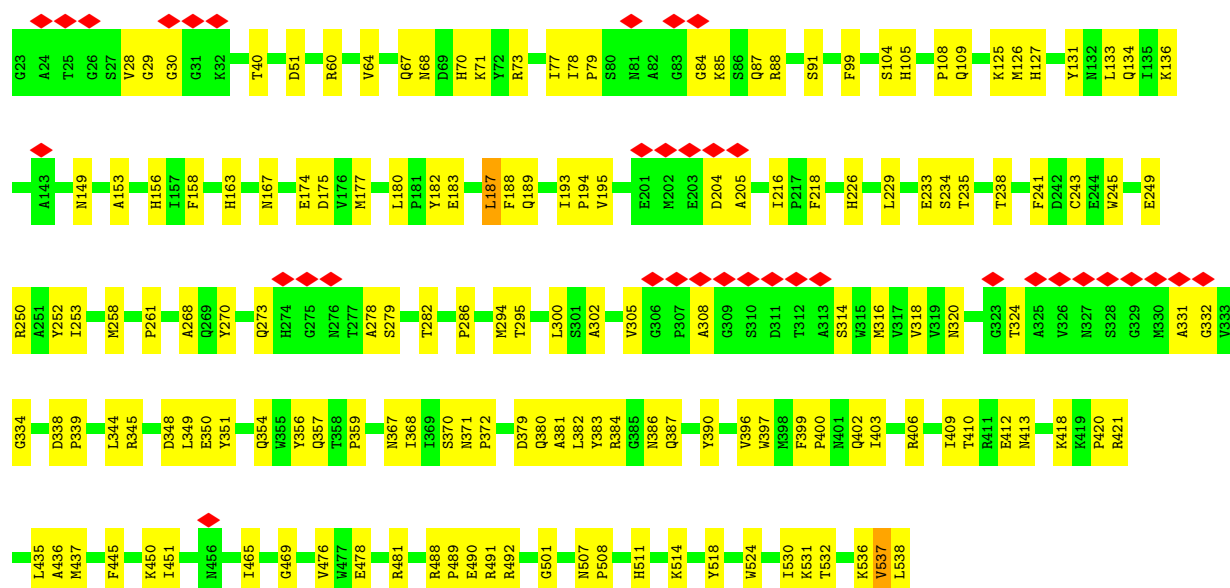




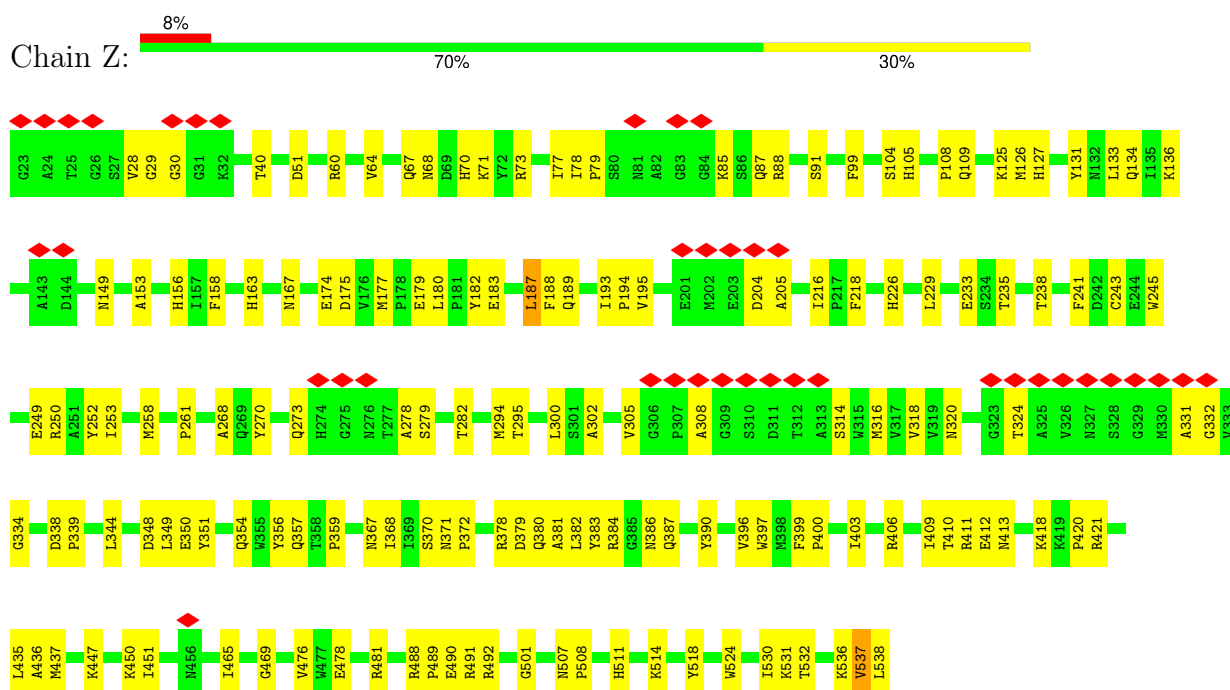
• Molecule 1: VP2



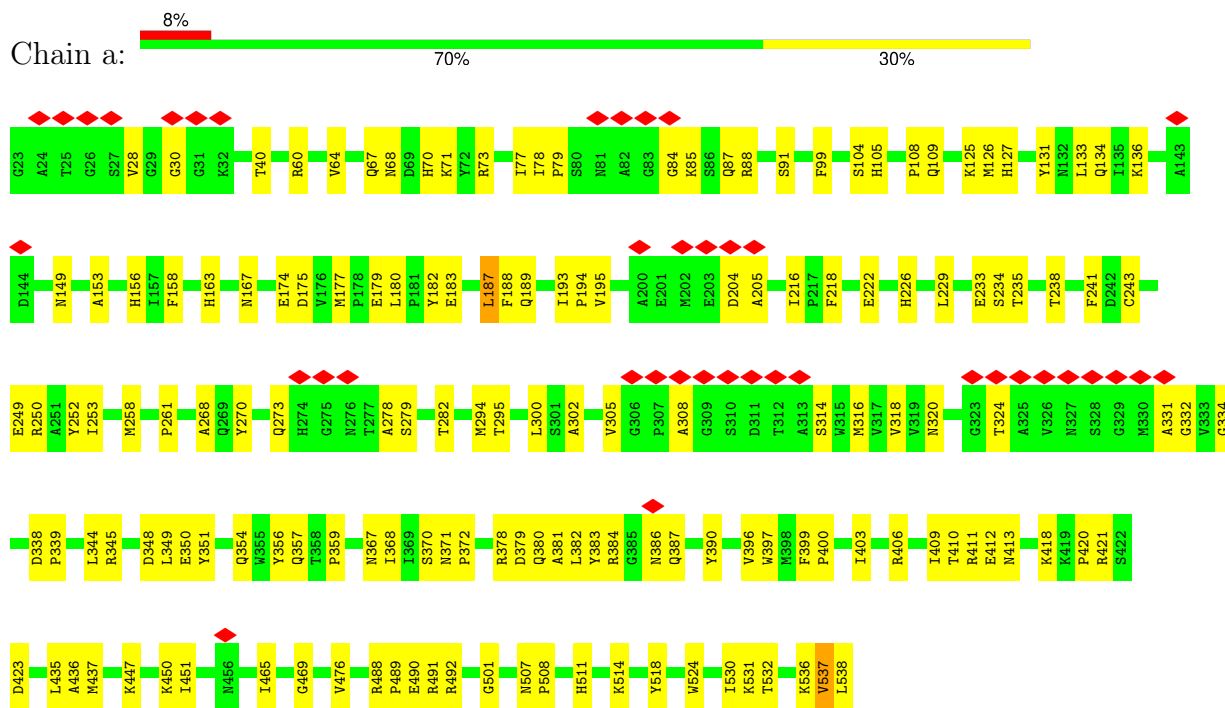
• Molecule 1: VP2



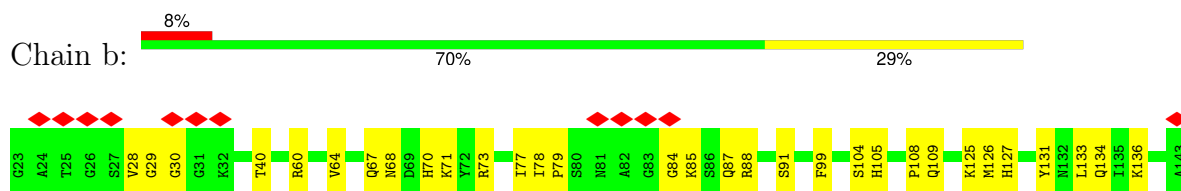
• Molecule 1: VP2

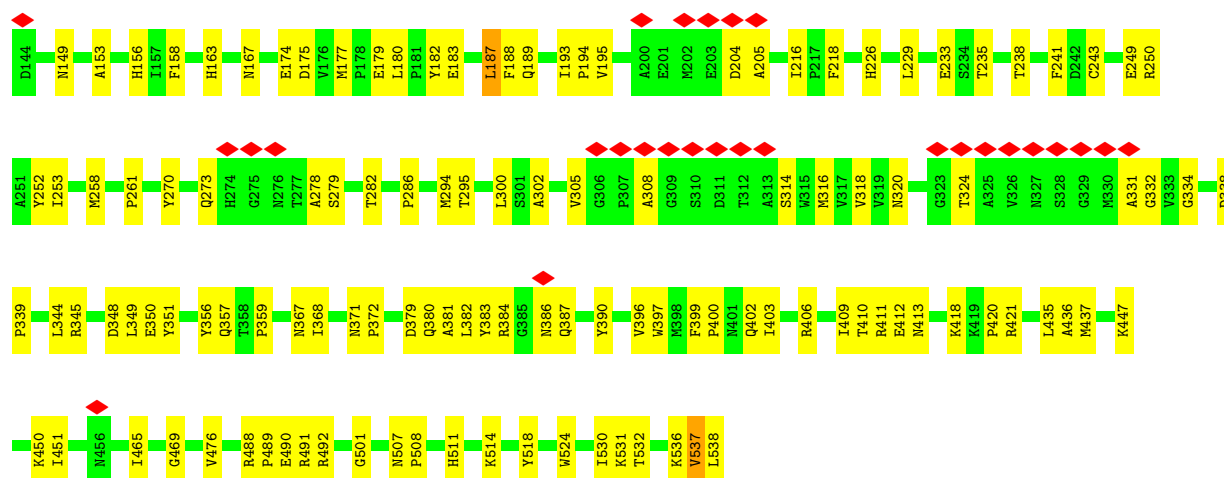


• Molecule 1: VP2

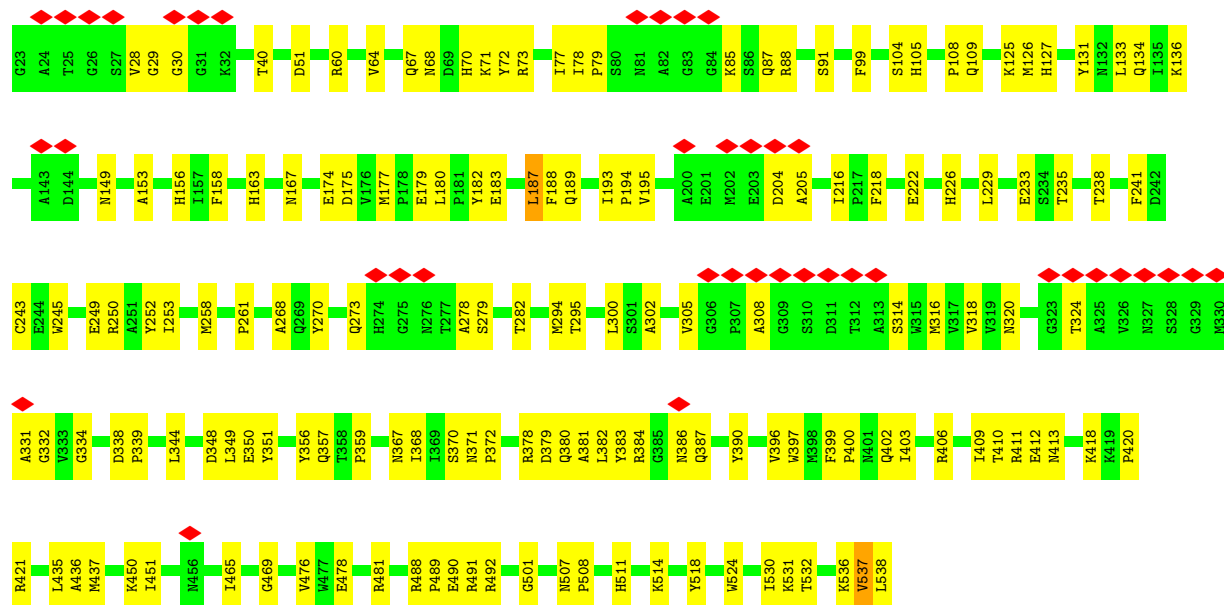


• Molecule 1: VP2

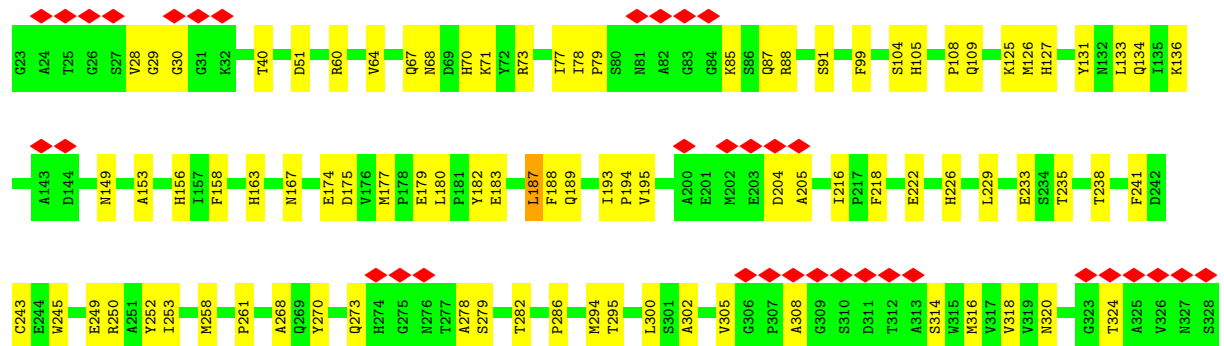


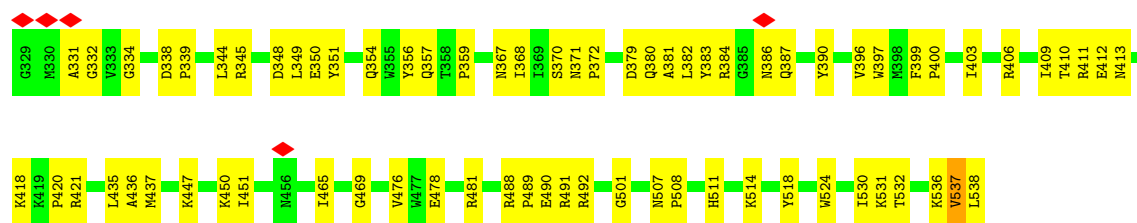


• Molecule 1: VP2

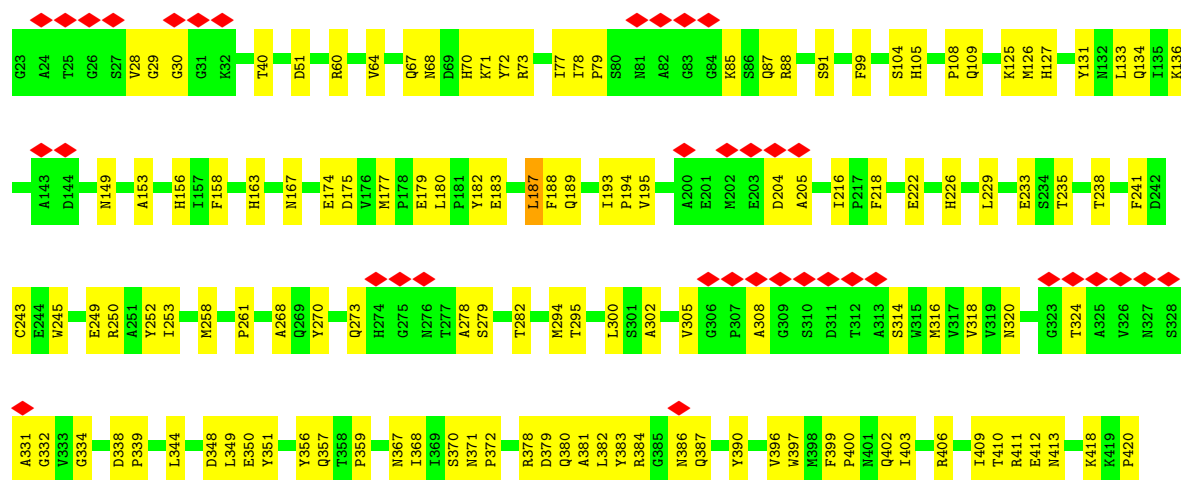


• Molecule 1: VP2

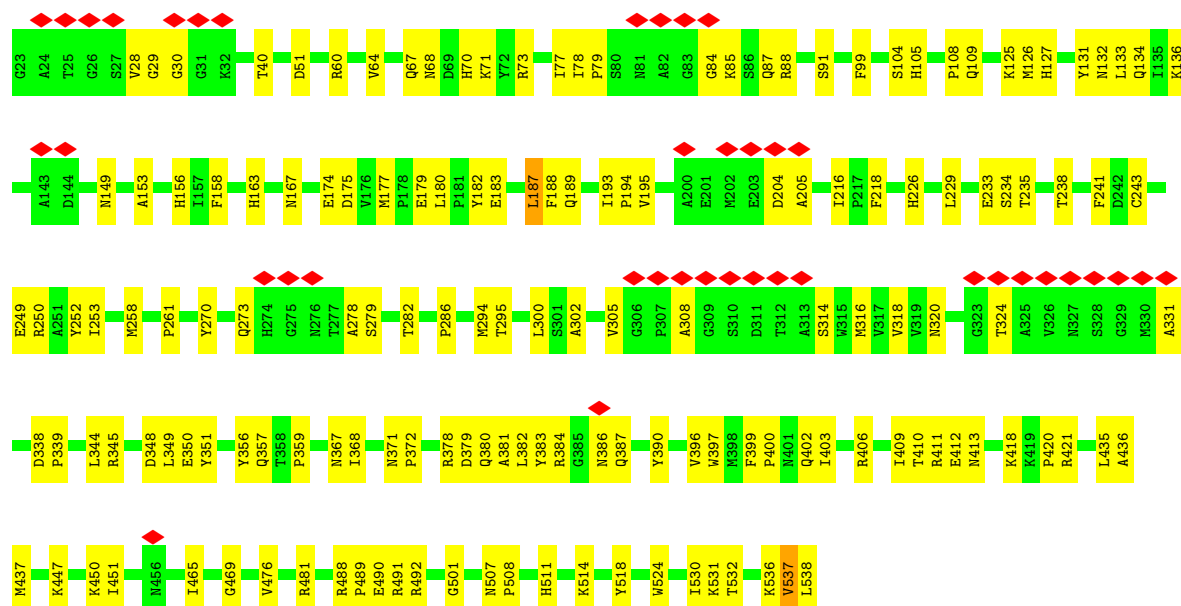




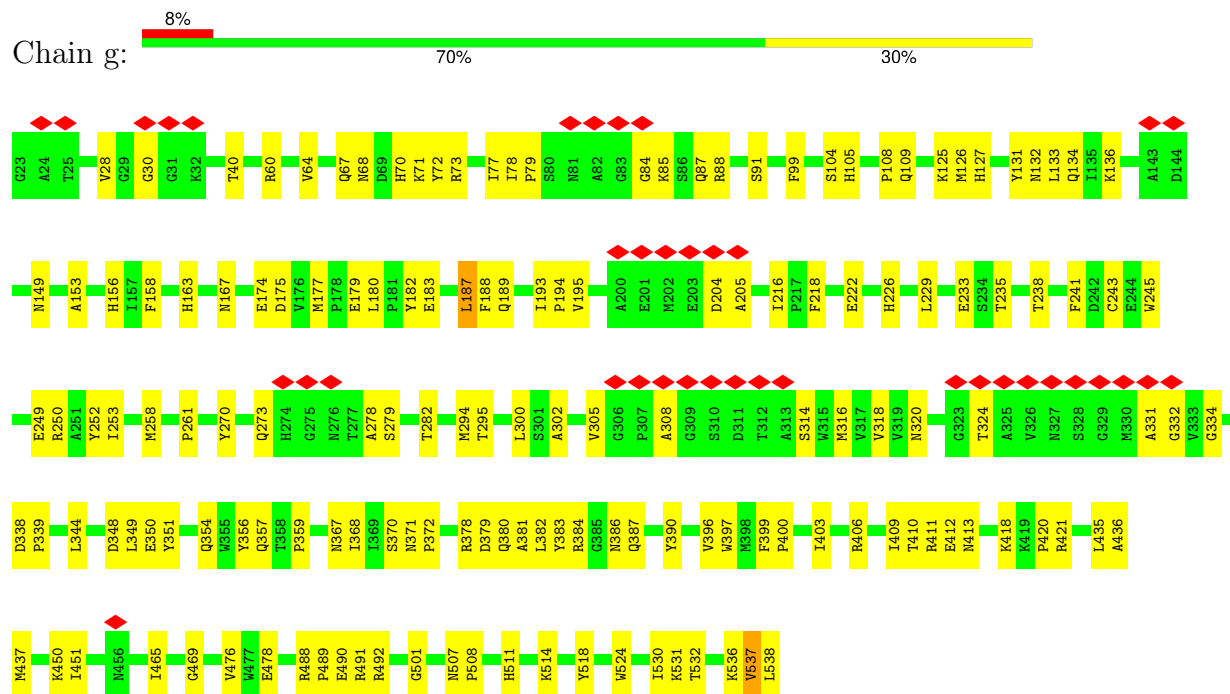
• Molecule 1: VP2



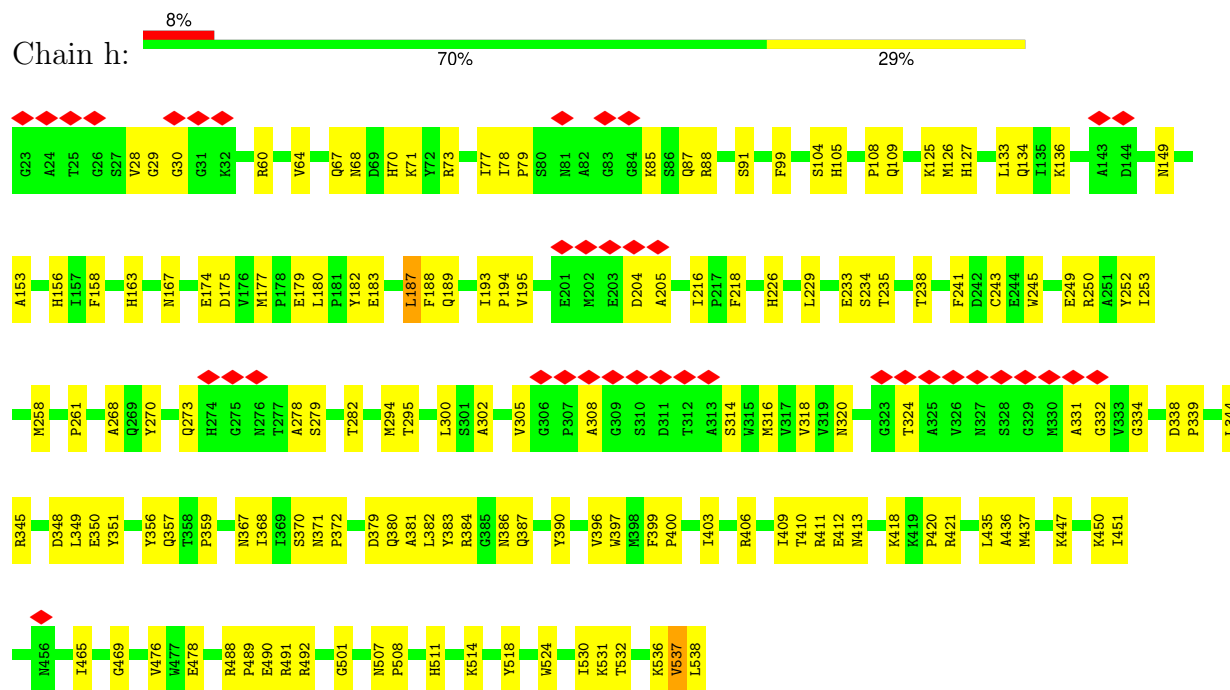
• Molecule 1: VP2



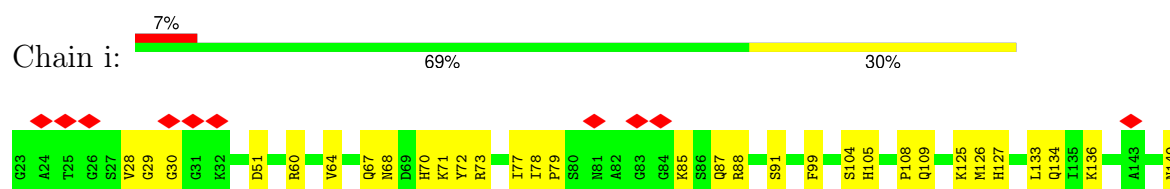
- Molecule 1: VP2

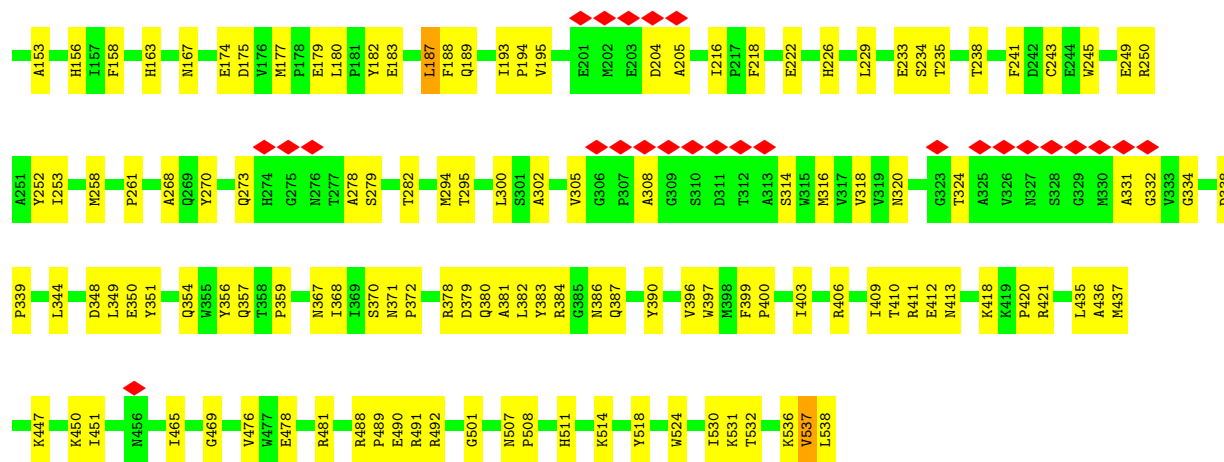


- Molecule 1: VP2

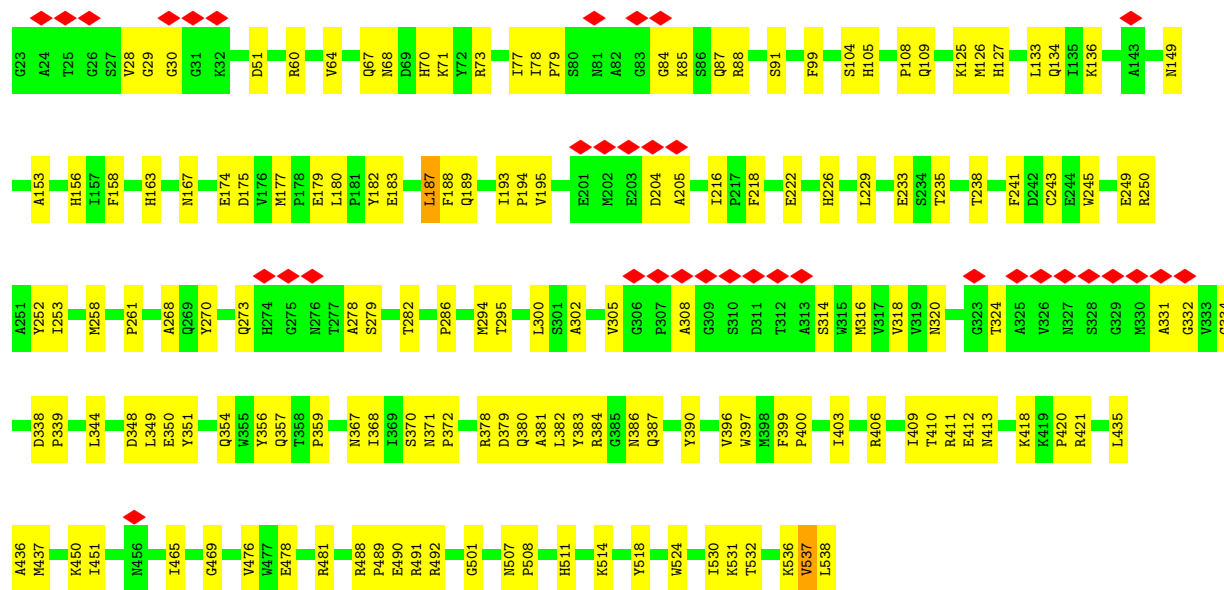


- Molecule 1: VP2

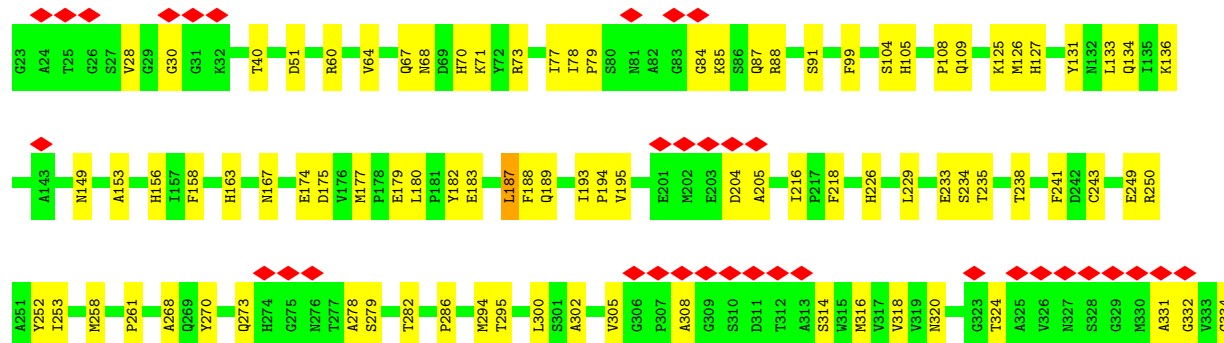


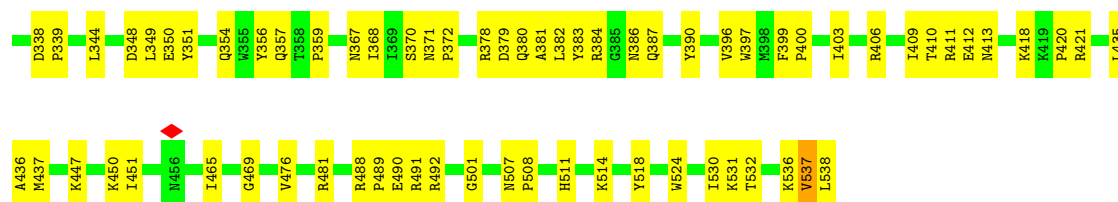


• Molecule 1: VP2



• Molecule 1: VP2

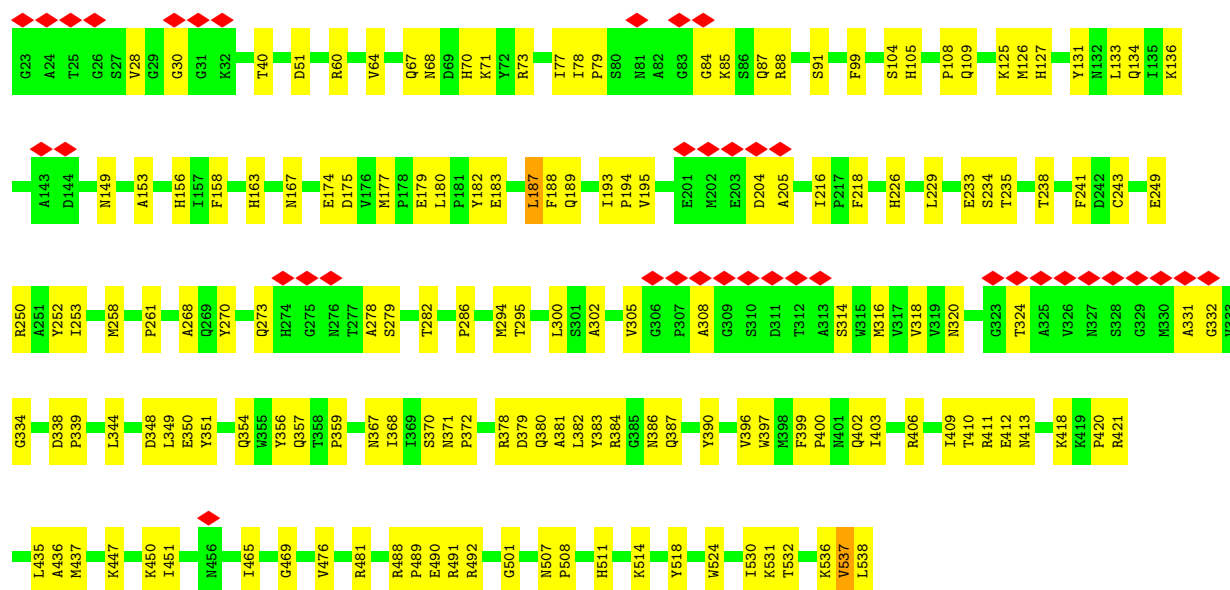




• Molecule 1: VP2



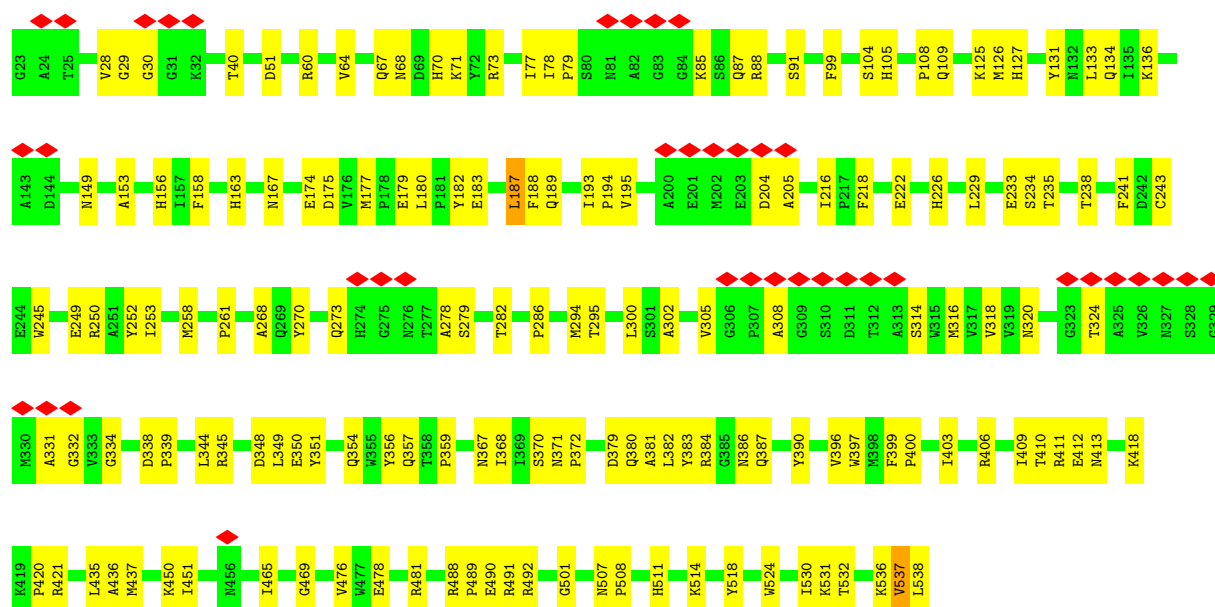
Chain l:



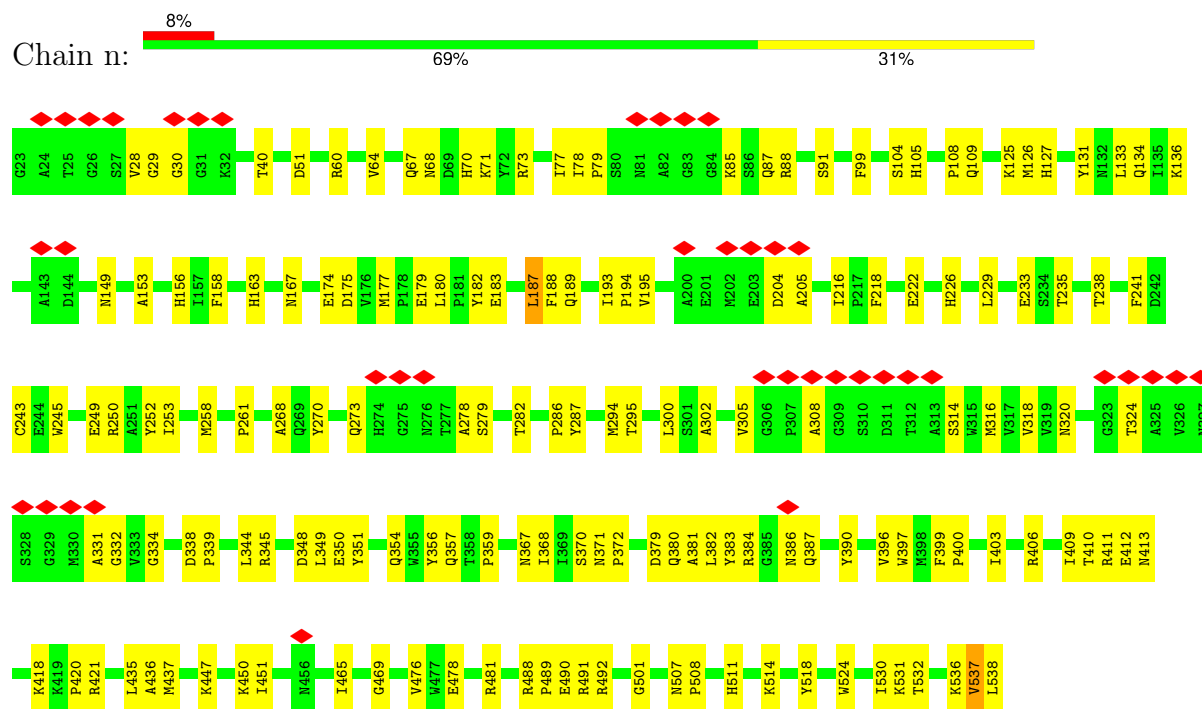
• Molecule 1: VP2



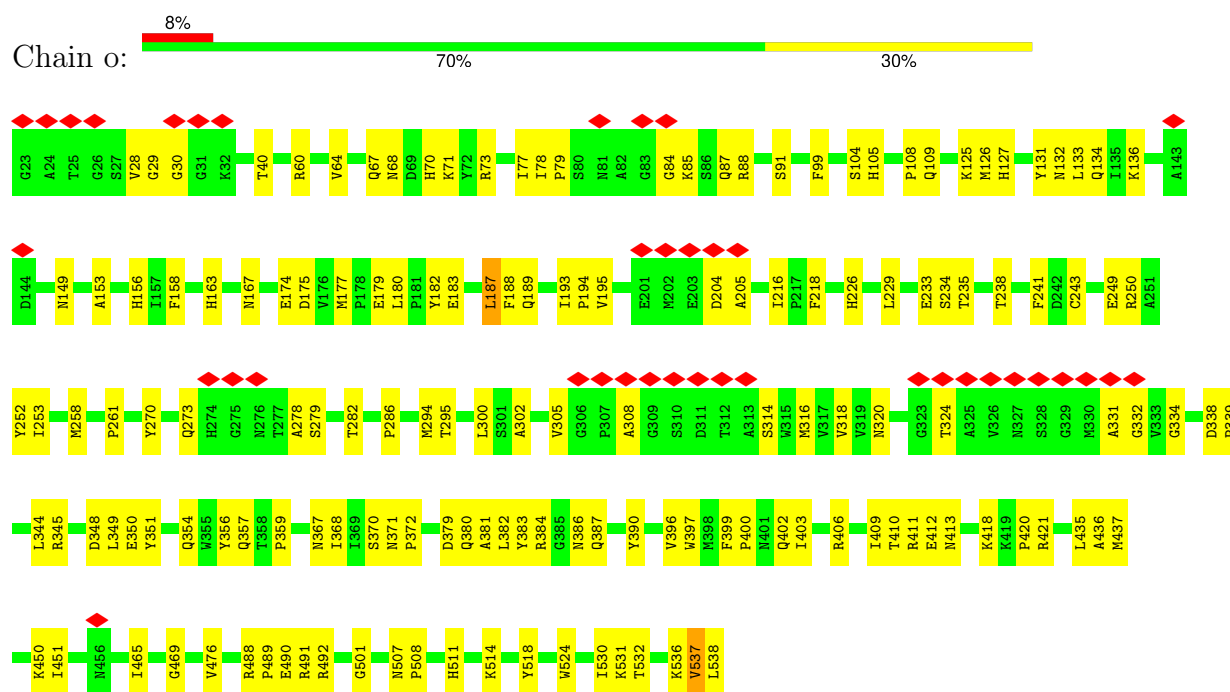
Chain m:



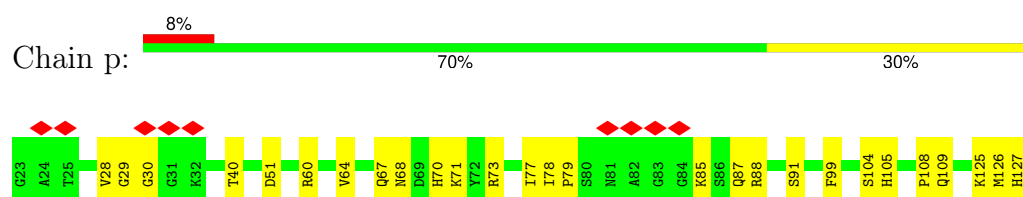
- Molecule 1: VP2

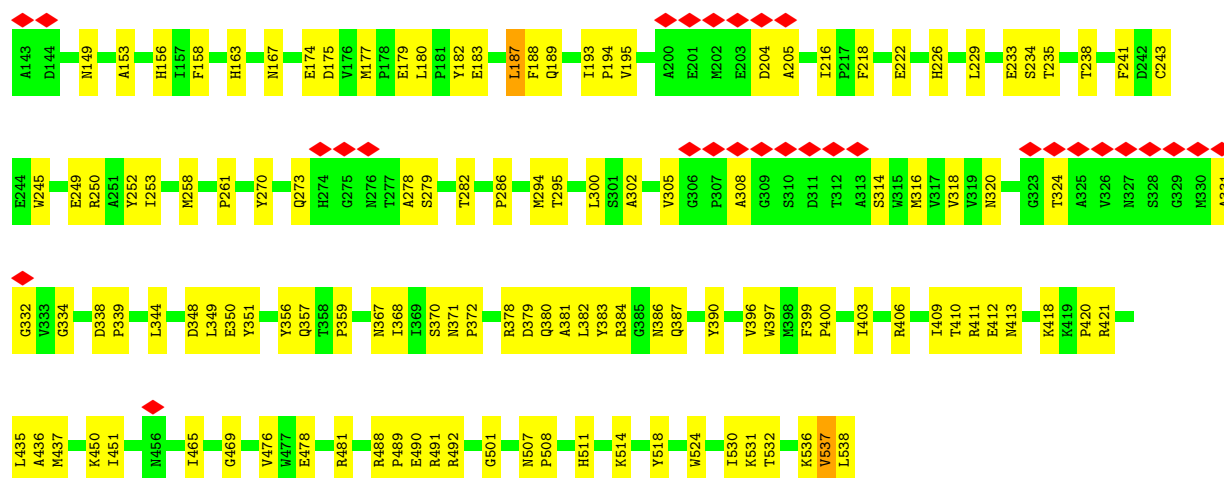


- Molecule 1: VP2

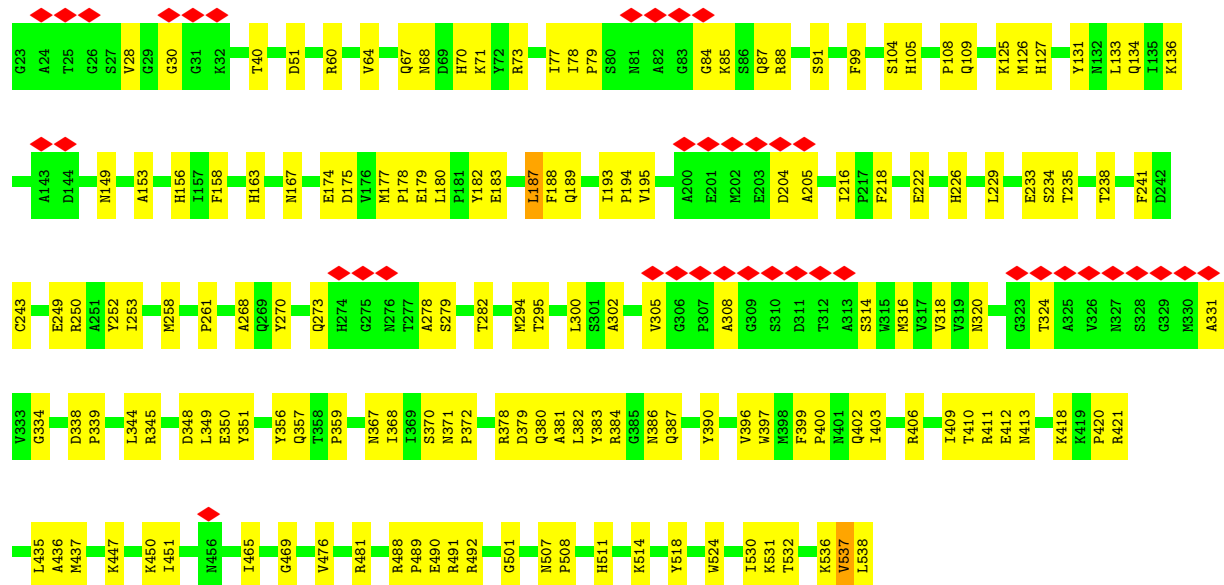


- Molecule 1: VP2

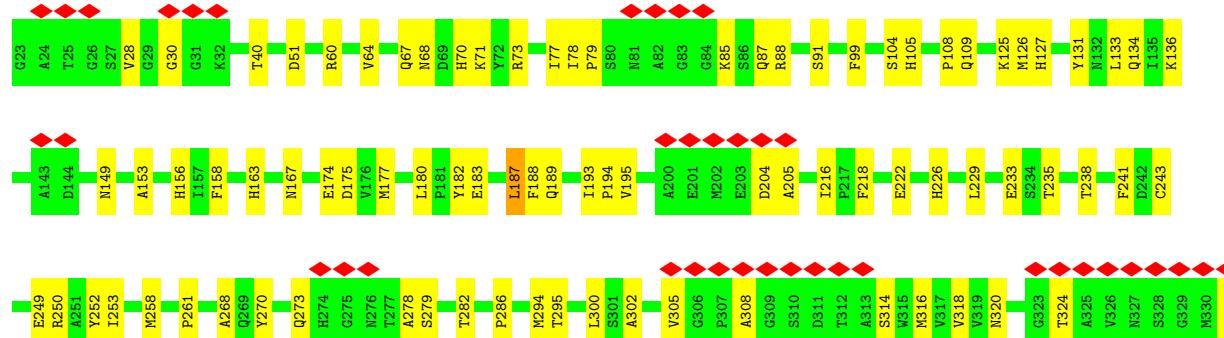


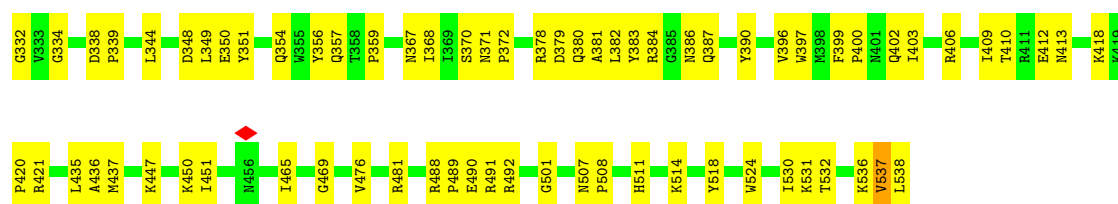


• Molecule 1: VP2

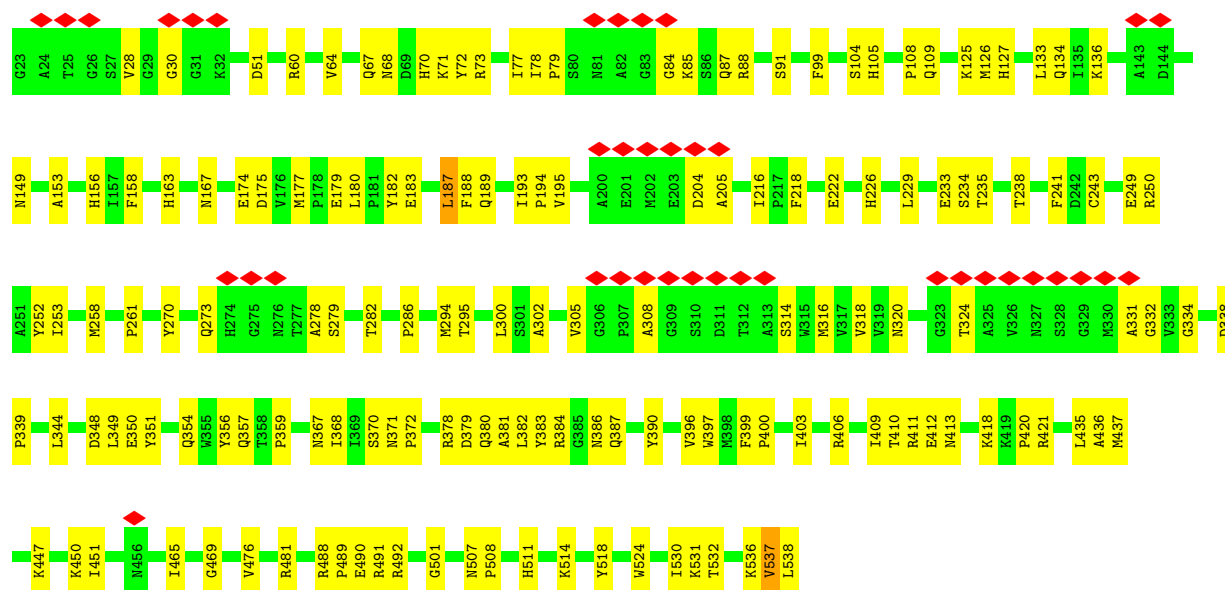


• Molecule 1: VP2

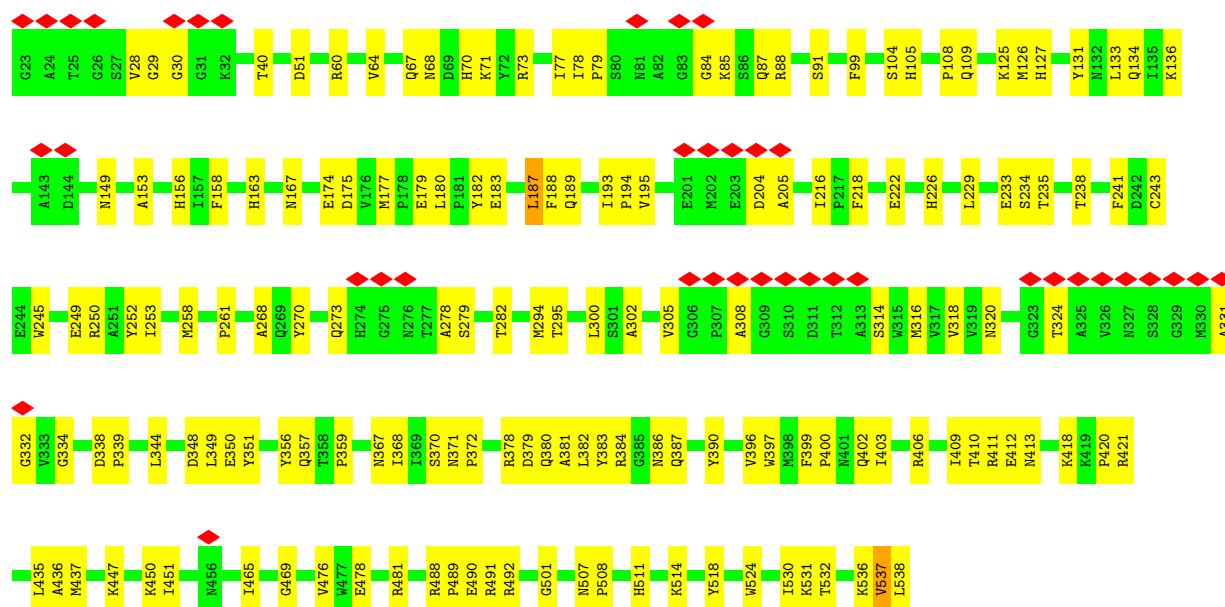




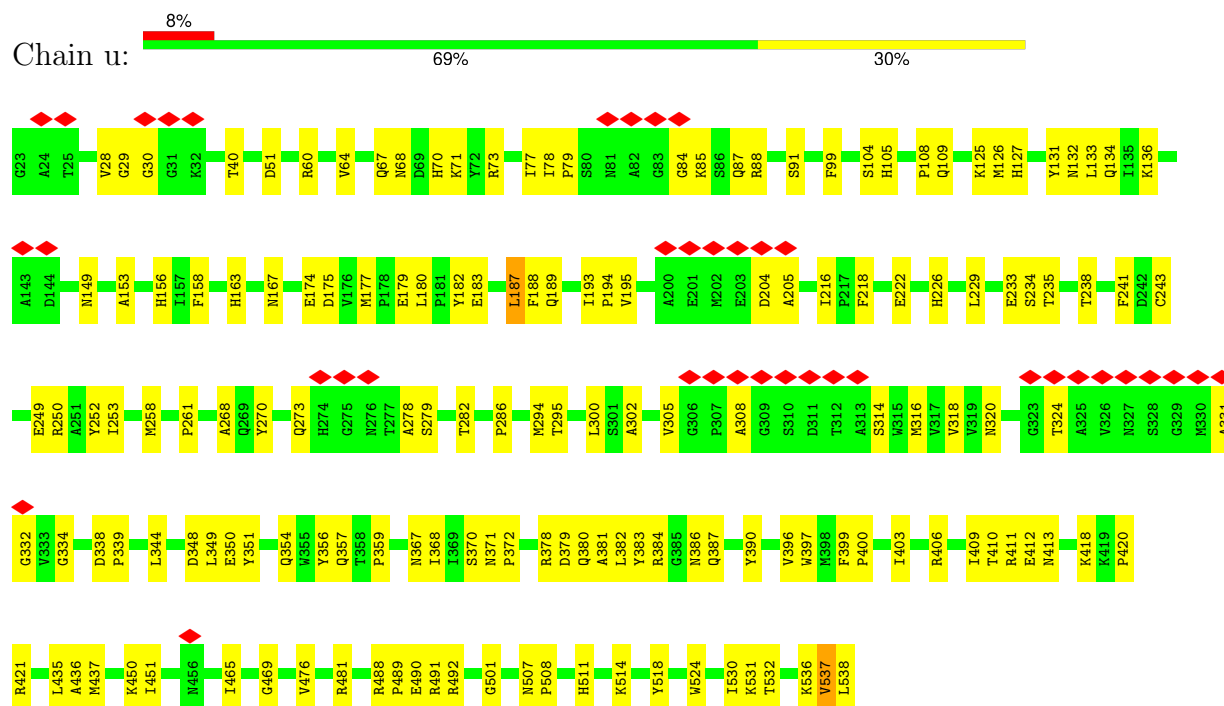
• Molecule 1: VP2

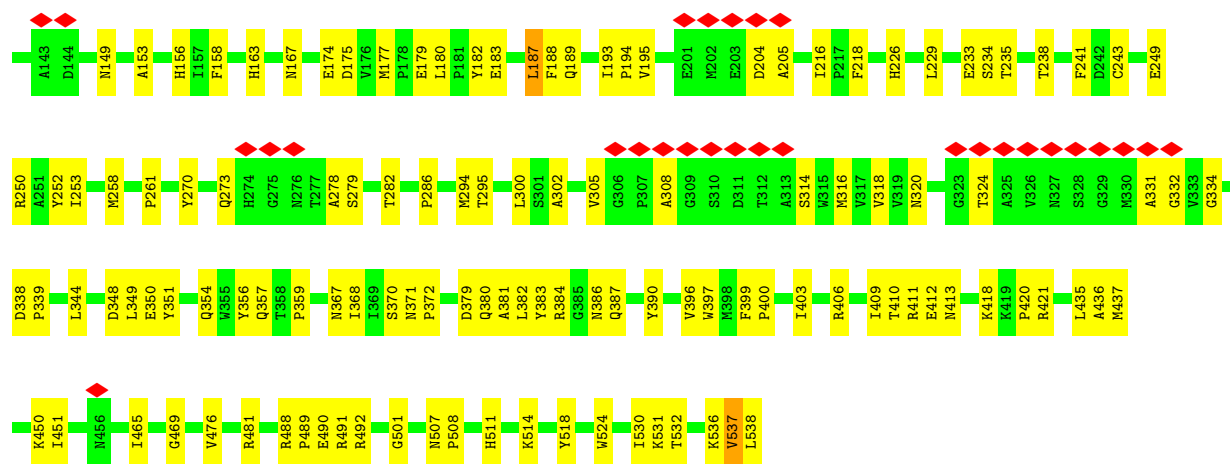


• Molecule 1: VP2

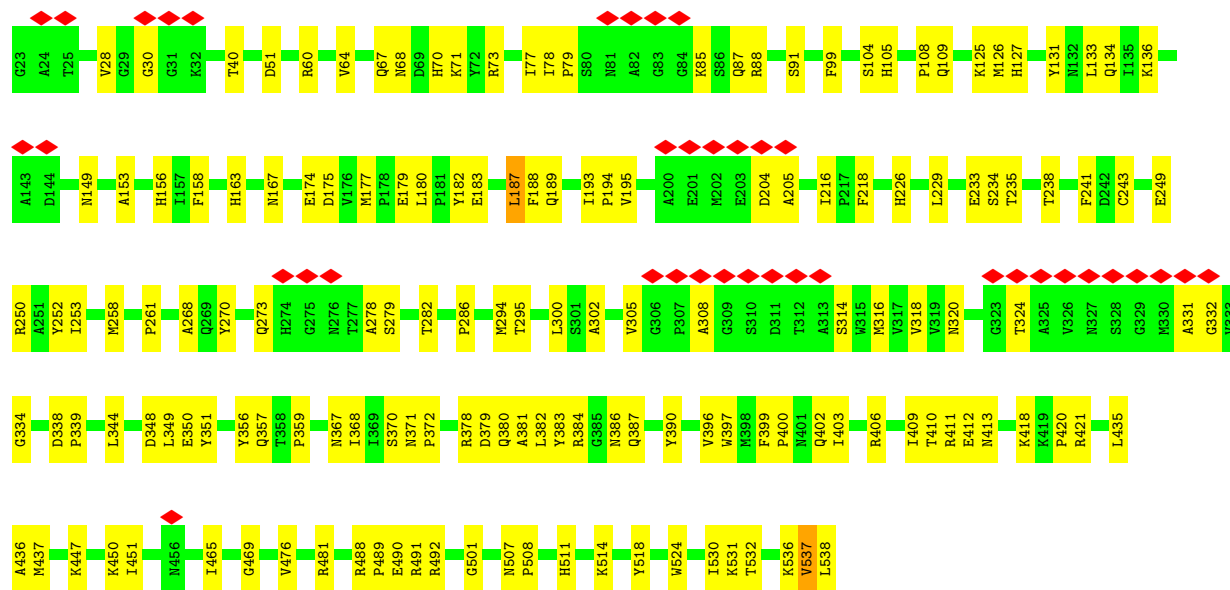


- Molecule 1: VP2





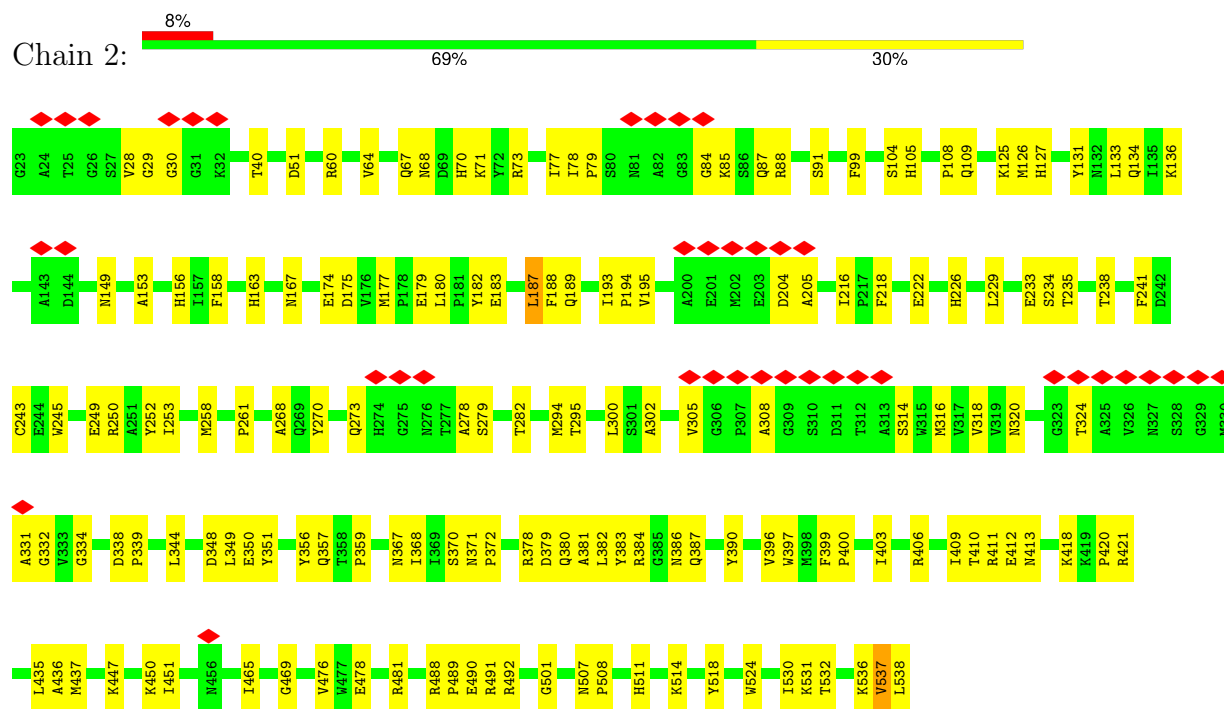
• Molecule 1: VP2



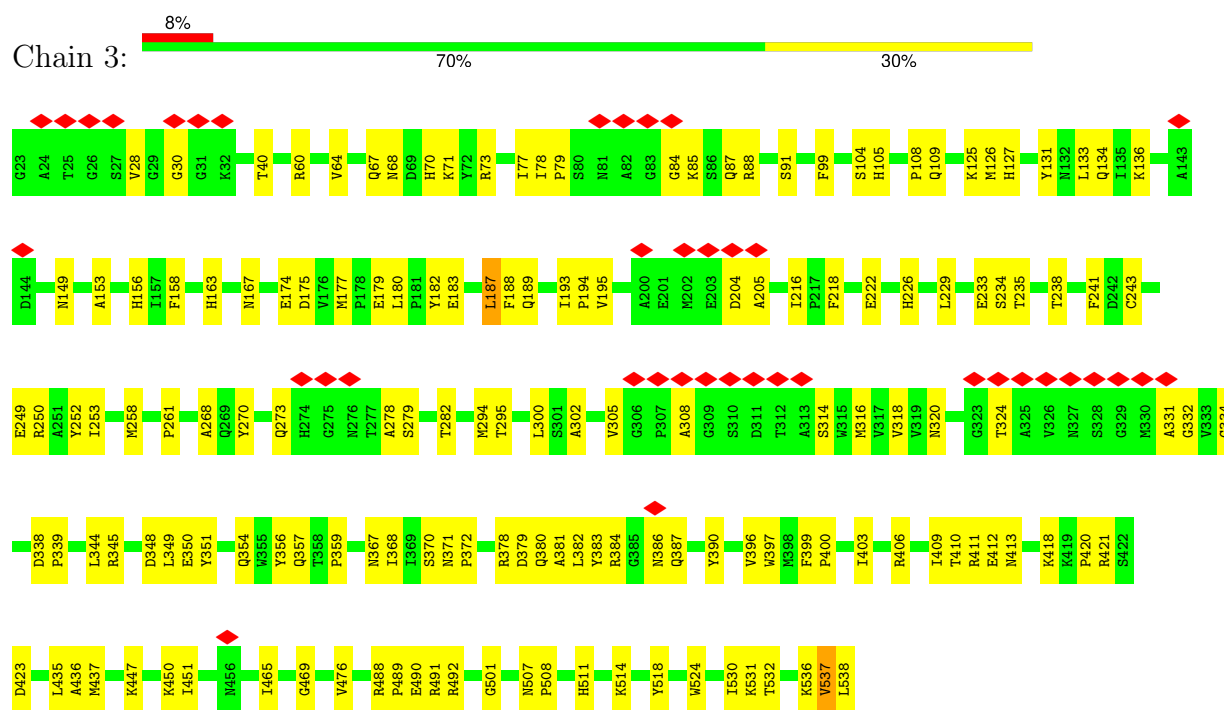
• Molecule 1: VP2



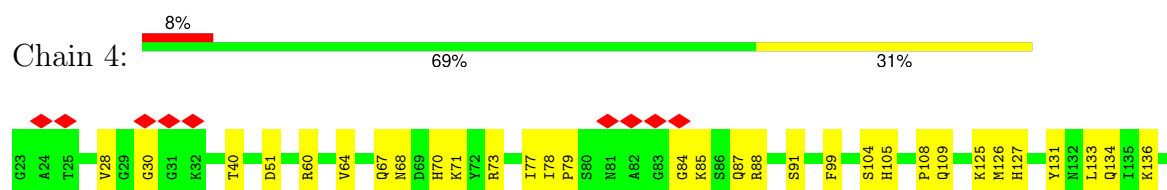
● Molecule 1: VP2

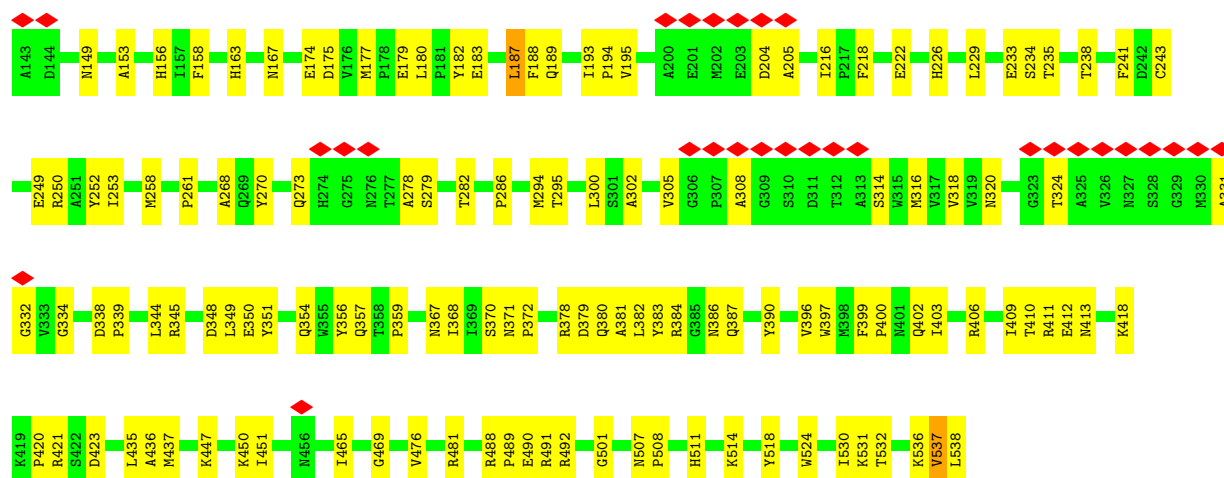


● Molecule 1: VP2

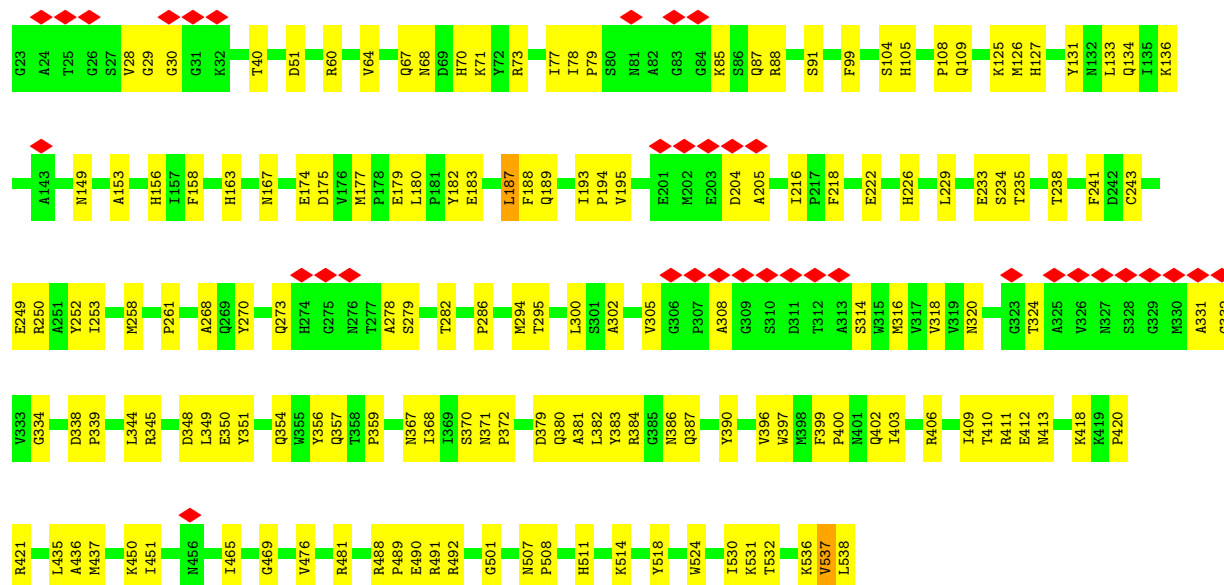


● Molecule 1: VP2

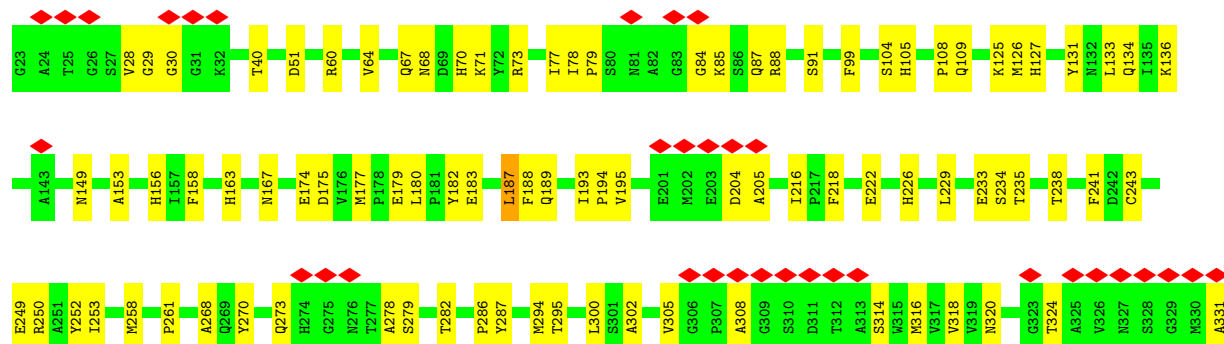


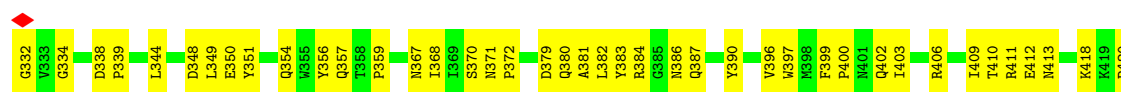


• Molecule 1: VP2

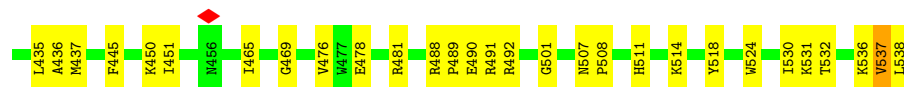
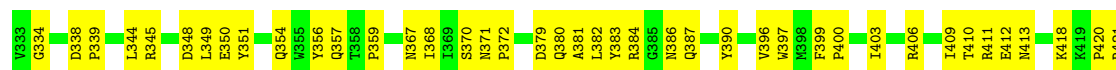
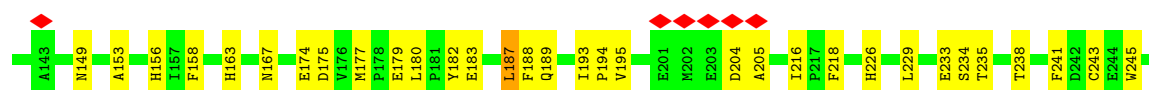
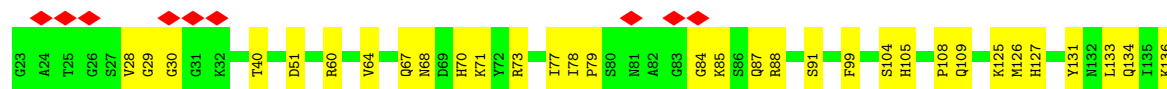


• Molecule 1: VP2

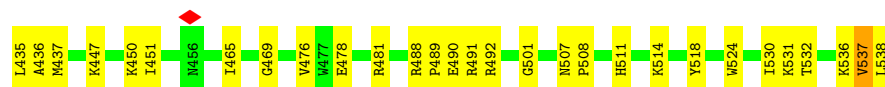
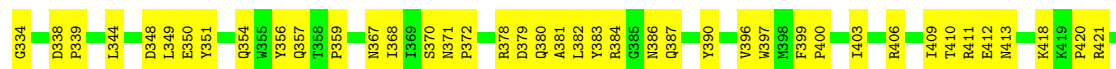
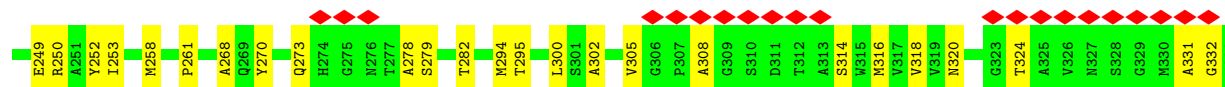
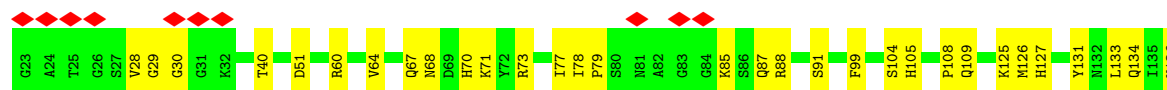




• Molecule 1: VP2



• Molecule 1: VP2



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	19648	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 ($e^-/\text{\AA}^2$)	64	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	18.698	Depositor
Minimum map value	-10.397	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.5	Depositor
Map size ($\text{\AA}$)	406.35, 406.35, 406.35	wwPDB
Map dimensions	450, 450, 450	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.903, 0.903, 0.903	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	1	0.40	0/4232	0.59	2/5771 (0.0%)
1	2	0.40	0/4232	0.59	2/5771 (0.0%)
1	3	0.40	0/4232	0.59	2/5771 (0.0%)
1	4	0.40	0/4232	0.59	2/5771 (0.0%)
1	5	0.40	0/4232	0.59	2/5771 (0.0%)
1	6	0.40	0/4232	0.59	2/5771 (0.0%)
1	7	0.40	0/4232	0.59	2/5771 (0.0%)
1	8	0.40	0/4232	0.59	2/5771 (0.0%)
1	A	0.40	0/4232	0.59	2/5771 (0.0%)
1	B	0.40	0/4232	0.59	2/5771 (0.0%)
1	C	0.40	0/4232	0.59	2/5771 (0.0%)
1	D	0.40	0/4232	0.59	2/5771 (0.0%)
1	E	0.40	0/4232	0.59	2/5771 (0.0%)
1	F	0.40	0/4232	0.59	2/5771 (0.0%)
1	G	0.40	0/4232	0.59	2/5771 (0.0%)
1	H	0.40	0/4232	0.59	2/5771 (0.0%)
1	I	0.40	0/4232	0.59	2/5771 (0.0%)
1	J	0.40	0/4232	0.59	2/5771 (0.0%)
1	K	0.40	0/4232	0.59	2/5771 (0.0%)
1	L	0.40	0/4232	0.59	2/5771 (0.0%)
1	M	0.40	0/4232	0.59	2/5771 (0.0%)
1	N	0.40	0/4232	0.59	2/5771 (0.0%)
1	O	0.40	0/4232	0.59	2/5771 (0.0%)
1	P	0.40	0/4232	0.59	2/5771 (0.0%)
1	Q	0.40	0/4232	0.59	2/5771 (0.0%)
1	R	0.40	0/4232	0.59	2/5771 (0.0%)
1	S	0.40	0/4232	0.59	2/5771 (0.0%)
1	T	0.40	0/4232	0.59	2/5771 (0.0%)
1	U	0.40	0/4232	0.59	2/5771 (0.0%)
1	V	0.40	0/4232	0.59	2/5771 (0.0%)
1	W	0.40	0/4232	0.59	2/5771 (0.0%)
1	X	0.40	0/4232	0.59	2/5771 (0.0%)
1	Y	0.40	0/4232	0.59	2/5771 (0.0%)
1	Z	0.40	0/4232	0.59	2/5771 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.40	0/4232	0.59	2/5771 (0.0%)
1	b	0.40	0/4232	0.59	2/5771 (0.0%)
1	c	0.40	0/4232	0.59	2/5771 (0.0%)
1	d	0.40	0/4232	0.59	2/5771 (0.0%)
1	e	0.40	0/4232	0.59	2/5771 (0.0%)
1	f	0.40	0/4232	0.59	2/5771 (0.0%)
1	g	0.40	0/4232	0.59	2/5771 (0.0%)
1	h	0.40	0/4232	0.59	2/5771 (0.0%)
1	i	0.40	0/4232	0.59	2/5771 (0.0%)
1	j	0.40	0/4232	0.59	2/5771 (0.0%)
1	k	0.40	0/4232	0.59	2/5771 (0.0%)
1	l	0.40	0/4232	0.59	2/5771 (0.0%)
1	m	0.40	0/4232	0.59	2/5771 (0.0%)
1	n	0.40	0/4232	0.59	2/5771 (0.0%)
1	o	0.40	0/4232	0.59	2/5771 (0.0%)
1	p	0.40	0/4232	0.59	2/5771 (0.0%)
1	q	0.40	0/4232	0.59	2/5771 (0.0%)
1	r	0.40	0/4232	0.59	2/5771 (0.0%)
1	s	0.40	0/4232	0.59	2/5771 (0.0%)
1	t	0.40	0/4232	0.59	2/5771 (0.0%)
1	u	0.40	0/4232	0.59	2/5771 (0.0%)
1	v	0.40	0/4232	0.59	2/5771 (0.0%)
1	w	0.40	0/4232	0.59	2/5771 (0.0%)
1	x	0.40	0/4232	0.59	2/5771 (0.0%)
1	y	0.40	0/4232	0.59	2/5771 (0.0%)
1	z	0.40	0/4232	0.59	2/5771 (0.0%)
All	All	0.40	0/253920	0.59	120/346260 (0.0%)

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

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

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

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

There are no bond length outliers.

All (120) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	537	VAL	O-C-N	-11.12	109.37	122.94
1	g	537	VAL	O-C-N	-11.12	109.37	122.94
1	p	537	VAL	O-C-N	-11.12	109.37	122.94
1	L	537	VAL	O-C-N	-11.12	109.37	122.94
1	B	537	VAL	O-C-N	-11.11	109.39	122.94
1	O	537	VAL	O-C-N	-11.10	109.41	122.94
1	Z	537	VAL	O-C-N	-11.10	109.41	122.94
1	d	537	VAL	O-C-N	-11.10	109.40	122.94
1	l	537	VAL	O-C-N	-11.10	109.41	122.94
1	n	537	VAL	O-C-N	-11.10	109.40	122.94
1	3	537	VAL	O-C-N	-11.10	109.40	122.94
1	8	537	VAL	O-C-N	-11.10	109.41	122.94
1	C	537	VAL	O-C-N	-11.09	109.41	122.94
1	Q	537	VAL	O-C-N	-11.09	109.41	122.94
1	c	537	VAL	O-C-N	-11.09	109.41	122.94
1	e	537	VAL	O-C-N	-11.09	109.41	122.94
1	f	537	VAL	O-C-N	-11.09	109.41	122.94
1	u	537	VAL	O-C-N	-11.09	109.41	122.94
1	x	537	VAL	O-C-N	-11.09	109.41	122.94
1	E	537	VAL	O-C-N	-11.08	109.42	122.94
1	G	537	VAL	O-C-N	-11.08	109.42	122.94
1	H	537	VAL	O-C-N	-11.08	109.42	122.94
1	I	537	VAL	O-C-N	-11.08	109.42	122.94
1	P	537	VAL	O-C-N	-11.08	109.42	122.94
1	j	537	VAL	O-C-N	-11.08	109.42	122.94
1	5	537	VAL	O-C-N	-11.08	109.42	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	t	537	VAL	O-C-N	-11.08	109.42	122.94
1	w	537	VAL	O-C-N	-11.08	109.42	122.94
1	A	537	VAL	O-C-N	-11.08	109.42	122.94
1	F	537	VAL	O-C-N	-11.08	109.42	122.94
1	a	537	VAL	O-C-N	-11.08	109.42	122.94
1	v	537	VAL	O-C-N	-11.08	109.42	122.94
1	y	537	VAL	O-C-N	-11.08	109.42	122.94
1	U	537	VAL	O-C-N	-11.07	109.43	122.94
1	z	537	VAL	O-C-N	-11.07	109.44	122.94
1	S	537	VAL	O-C-N	-11.06	109.44	122.94
1	r	537	VAL	O-C-N	-11.06	109.44	122.94
1	2	537	VAL	O-C-N	-11.06	109.44	122.94
1	K	537	VAL	O-C-N	-11.06	109.45	122.94
1	T	537	VAL	O-C-N	-11.06	109.45	122.94
1	m	537	VAL	O-C-N	-11.06	109.45	122.94
1	4	537	VAL	O-C-N	-11.06	109.45	122.94
1	N	537	VAL	O-C-N	-11.05	109.46	122.94
1	Y	537	VAL	O-C-N	-11.05	109.46	122.94
1	i	537	VAL	O-C-N	-11.05	109.46	122.94
1	7	537	VAL	O-C-N	-11.05	109.46	122.94
1	J	537	VAL	O-C-N	-11.05	109.46	122.94
1	b	537	VAL	O-C-N	-11.04	109.47	122.94
1	M	537	VAL	O-C-N	-11.04	109.47	122.94
1	R	537	VAL	O-C-N	-11.04	109.47	122.94
1	X	537	VAL	O-C-N	-11.04	109.47	122.94
1	h	537	VAL	O-C-N	-11.04	109.47	122.94
1	o	537	VAL	O-C-N	-11.04	109.47	122.94
1	q	537	VAL	O-C-N	-11.04	109.47	122.94
1	l	537	VAL	O-C-N	-11.04	109.47	122.94
1	s	537	VAL	O-C-N	-11.03	109.48	122.94
1	D	537	VAL	O-C-N	-11.03	109.49	122.94
1	W	537	VAL	O-C-N	-11.03	109.49	122.94
1	k	537	VAL	O-C-N	-11.03	109.49	122.94
1	6	537	VAL	O-C-N	-11.03	109.49	122.94
1	B	187	LEU	N-CA-C	5.57	118.14	110.35
1	K	187	LEU	N-CA-C	5.56	118.13	110.35
1	C	187	LEU	N-CA-C	5.56	118.13	110.35
1	V	187	LEU	N-CA-C	5.56	118.13	110.35
1	a	187	LEU	N-CA-C	5.56	118.13	110.35
1	g	187	LEU	N-CA-C	5.56	118.13	110.35
1	p	187	LEU	N-CA-C	5.56	118.13	110.35
1	I	187	LEU	N-CA-C	5.55	118.12	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	187	LEU	N-CA-C	5.55	118.12	110.35
1	M	187	LEU	N-CA-C	5.55	118.12	110.35
1	W	187	LEU	N-CA-C	5.55	118.12	110.35
1	X	187	LEU	N-CA-C	5.55	118.12	110.35
1	h	187	LEU	N-CA-C	5.55	118.12	110.35
1	k	187	LEU	N-CA-C	5.55	118.12	110.35
1	o	187	LEU	N-CA-C	5.55	118.12	110.35
1	6	187	LEU	N-CA-C	5.55	118.12	110.35
1	H	187	LEU	N-CA-C	5.54	118.11	110.35
1	O	187	LEU	N-CA-C	5.54	118.11	110.35
1	P	187	LEU	N-CA-C	5.54	118.11	110.35
1	Z	187	LEU	N-CA-C	5.54	118.11	110.35
1	j	187	LEU	N-CA-C	5.54	118.11	110.35
1	l	187	LEU	N-CA-C	5.54	118.11	110.35
1	1	187	LEU	N-CA-C	5.54	118.11	110.35
1	5	187	LEU	N-CA-C	5.54	118.11	110.35
1	8	187	LEU	N-CA-C	5.54	118.11	110.35
1	N	187	LEU	N-CA-C	5.54	118.11	110.35
1	Y	187	LEU	N-CA-C	5.54	118.11	110.35
1	i	187	LEU	N-CA-C	5.54	118.11	110.35
1	7	187	LEU	N-CA-C	5.54	118.11	110.35
1	A	187	LEU	N-CA-C	5.54	118.11	110.35
1	F	187	LEU	N-CA-C	5.54	118.11	110.35
1	v	187	LEU	N-CA-C	5.54	118.11	110.35
1	y	187	LEU	N-CA-C	5.54	118.11	110.35
1	Q	187	LEU	N-CA-C	5.54	118.10	110.35
1	u	187	LEU	N-CA-C	5.54	118.10	110.35
1	x	187	LEU	N-CA-C	5.54	118.10	110.35
1	U	187	LEU	N-CA-C	5.52	118.08	110.35
1	s	187	LEU	N-CA-C	5.52	118.08	110.35
1	z	187	LEU	N-CA-C	5.52	118.08	110.35
1	2	187	LEU	N-CA-C	5.52	118.08	110.35
1	L	187	LEU	N-CA-C	5.52	118.08	110.35
1	R	187	LEU	N-CA-C	5.52	118.08	110.35
1	S	187	LEU	N-CA-C	5.52	118.08	110.35
1	q	187	LEU	N-CA-C	5.52	118.08	110.35
1	r	187	LEU	N-CA-C	5.52	118.08	110.35
1	E	187	LEU	N-CA-C	5.52	118.08	110.35
1	G	187	LEU	N-CA-C	5.52	118.08	110.35
1	t	187	LEU	N-CA-C	5.52	118.08	110.35
1	w	187	LEU	N-CA-C	5.52	118.08	110.35
1	b	187	LEU	N-CA-C	5.52	118.08	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	187	LEU	N-CA-C	5.52	118.08	110.35
1	d	187	LEU	N-CA-C	5.52	118.08	110.35
1	e	187	LEU	N-CA-C	5.52	118.08	110.35
1	f	187	LEU	N-CA-C	5.52	118.08	110.35
1	n	187	LEU	N-CA-C	5.52	118.08	110.35
1	3	187	LEU	N-CA-C	5.52	118.08	110.35
1	J	187	LEU	N-CA-C	5.52	118.07	110.35
1	T	187	LEU	N-CA-C	5.52	118.07	110.35
1	m	187	LEU	N-CA-C	5.52	118.07	110.35
1	4	187	LEU	N-CA-C	5.52	118.07	110.35

There are no chirality outliers.

All (60) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	537	VAL	Mainchain
1	2	537	VAL	Mainchain
1	3	537	VAL	Mainchain
1	4	537	VAL	Mainchain
1	5	537	VAL	Mainchain
1	6	537	VAL	Mainchain
1	7	537	VAL	Mainchain
1	8	537	VAL	Mainchain
1	A	537	VAL	Mainchain
1	B	537	VAL	Mainchain
1	C	537	VAL	Mainchain
1	D	537	VAL	Mainchain
1	E	537	VAL	Mainchain
1	F	537	VAL	Mainchain
1	G	537	VAL	Mainchain
1	H	537	VAL	Mainchain
1	I	537	VAL	Mainchain
1	J	537	VAL	Mainchain
1	K	537	VAL	Mainchain
1	L	537	VAL	Mainchain
1	M	537	VAL	Mainchain
1	N	537	VAL	Mainchain
1	O	537	VAL	Mainchain
1	P	537	VAL	Mainchain
1	Q	537	VAL	Mainchain
1	R	537	VAL	Mainchain
1	S	537	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	T	537	VAL	Mainchain
1	U	537	VAL	Mainchain
1	V	537	VAL	Mainchain
1	W	537	VAL	Mainchain
1	X	537	VAL	Mainchain
1	Y	537	VAL	Mainchain
1	Z	537	VAL	Mainchain
1	a	537	VAL	Mainchain
1	b	537	VAL	Mainchain
1	c	537	VAL	Mainchain
1	d	537	VAL	Mainchain
1	e	537	VAL	Mainchain
1	f	537	VAL	Mainchain
1	g	537	VAL	Mainchain
1	h	537	VAL	Mainchain
1	i	537	VAL	Mainchain
1	j	537	VAL	Mainchain
1	k	537	VAL	Mainchain
1	l	537	VAL	Mainchain
1	m	537	VAL	Mainchain
1	n	537	VAL	Mainchain
1	o	537	VAL	Mainchain
1	p	537	VAL	Mainchain
1	q	537	VAL	Mainchain
1	r	537	VAL	Mainchain
1	s	537	VAL	Mainchain
1	t	537	VAL	Mainchain
1	u	537	VAL	Mainchain
1	v	537	VAL	Mainchain
1	w	537	VAL	Mainchain
1	x	537	VAL	Mainchain
1	y	537	VAL	Mainchain
1	z	537	VAL	Mainchain

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	4108	0	3916	141	0
1	2	4108	0	3916	148	0
1	3	4108	0	3916	149	0
1	4	4108	0	3916	151	0
1	5	4108	0	3916	147	0
1	6	4108	0	3916	147	0
1	7	4108	0	3916	149	0
1	8	4108	0	3916	146	0
1	A	4108	0	3916	145	0
1	B	4108	0	3916	143	0
1	C	4108	0	3916	146	0
1	D	4108	0	3916	148	0
1	E	4108	0	3916	143	0
1	F	4108	0	3916	144	0
1	G	4108	0	3916	147	0
1	H	4108	0	3916	148	0
1	I	4108	0	3916	149	0
1	J	4108	0	3916	150	0
1	K	4108	0	3916	149	0
1	L	4108	0	3916	146	0
1	M	4108	0	3916	146	0
1	N	4108	0	3916	146	0
1	O	4108	0	3916	150	0
1	P	4108	0	3916	147	0
1	Q	4108	0	3916	145	0
1	R	4108	0	3916	146	0
1	S	4108	0	3916	147	0
1	T	4108	0	3916	149	0
1	U	4108	0	3916	144	0
1	V	4108	0	3916	142	0
1	W	4108	0	3916	144	0
1	X	4108	0	3916	145	0
1	Y	4108	0	3916	148	0
1	Z	4108	0	3916	147	0
1	a	4108	0	3916	148	0
1	b	4108	0	3916	143	0
1	c	4108	0	3916	146	0
1	d	4108	0	3916	147	0
1	e	4108	0	3916	146	0
1	f	4108	0	3916	147	0
1	g	4108	0	3916	145	0
1	h	4108	0	3916	145	0
1	i	4108	0	3916	148	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4108	0	3916	147	0
1	k	4108	0	3916	147	0
1	l	4108	0	3916	148	0
1	m	4108	0	3916	149	0
1	n	4108	0	3916	148	0
1	o	4108	0	3916	146	0
1	p	4108	0	3916	145	0
1	q	4108	0	3916	147	0
1	r	4108	0	3916	146	0
1	s	4108	0	3916	146	0
1	t	4108	0	3916	147	0
1	u	4108	0	3916	149	0
1	v	4108	0	3916	146	0
1	w	4108	0	3916	143	0
1	x	4108	0	3916	146	0
1	y	4108	0	3916	146	0
1	z	4108	0	3916	148	0
All	All	246480	0	234960	7170	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 15.

All (7170) 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:O:175:ASP:HB2	1:O:188:PHE:CZ	2.08	0.89
1:S:175:ASP:HB2	1:S:188:PHE:CZ	2.08	0.89
1:l:175:ASP:HB2	1:l:188:PHE:CZ	2.08	0.89
1:r:175:ASP:HB2	1:r:188:PHE:CZ	2.08	0.89
1:H:175:ASP:HB2	1:H:188:PHE:CZ	2.08	0.89
1:V:175:ASP:HB2	1:V:188:PHE:CZ	2.08	0.89
1:a:175:ASP:HB2	1:a:188:PHE:CZ	2.08	0.89
1:b:175:ASP:HB2	1:b:188:PHE:CZ	2.08	0.89
1:p:175:ASP:HB2	1:p:188:PHE:CZ	2.08	0.89
1:3:175:ASP:HB2	1:3:188:PHE:CZ	2.08	0.89
1:5:175:ASP:HB2	1:5:188:PHE:CZ	2.08	0.89
1:f:175:ASP:HB2	1:f:188:PHE:CZ	2.08	0.89
1:B:175:ASP:HB2	1:B:188:PHE:CZ	2.08	0.89
1:F:175:ASP:HB2	1:F:188:PHE:CZ	2.08	0.89
1:I:175:ASP:HB2	1:I:188:PHE:CZ	2.08	0.89
1:1:175:ASP:HB2	1:1:188:PHE:CZ	2.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:175:ASP:HB2	1:D:188:PHE:CZ	2.08	0.89
1:X:175:ASP:HB2	1:X:188:PHE:CZ	2.08	0.89
1:u:175:ASP:HB2	1:u:188:PHE:CZ	2.08	0.89
1:y:175:ASP:HB2	1:y:188:PHE:CZ	2.08	0.89
1:c:175:ASP:HB2	1:c:188:PHE:CZ	2.08	0.89
1:k:175:ASP:HB2	1:k:188:PHE:CZ	2.08	0.89
1:o:175:ASP:HB2	1:o:188:PHE:CZ	2.08	0.89
1:U:175:ASP:HB2	1:U:188:PHE:CZ	2.08	0.89
1:e:175:ASP:HB2	1:e:188:PHE:CZ	2.08	0.89
1:J:175:ASP:HB2	1:J:188:PHE:CZ	2.08	0.89
1:g:175:ASP:HB2	1:g:188:PHE:CZ	2.08	0.89
1:s:175:ASP:HB2	1:s:188:PHE:CZ	2.08	0.89
1:v:175:ASP:HB2	1:v:188:PHE:CZ	2.08	0.89
1:2:175:ASP:HB2	1:2:188:PHE:CZ	2.08	0.89
1:A:175:ASP:HB2	1:A:188:PHE:CZ	2.08	0.89
1:C:175:ASP:HB2	1:C:188:PHE:CZ	2.08	0.89
1:Q:175:ASP:HB2	1:Q:188:PHE:CZ	2.08	0.89
1:x:175:ASP:HB2	1:x:188:PHE:CZ	2.08	0.89
1:N:175:ASP:HB2	1:N:188:PHE:CZ	2.08	0.89
1:R:175:ASP:HB2	1:R:188:PHE:CZ	2.08	0.89
1:h:175:ASP:HB2	1:h:188:PHE:CZ	2.08	0.89
1:i:175:ASP:HB2	1:i:188:PHE:CZ	2.08	0.89
1:z:175:ASP:HB2	1:z:188:PHE:CZ	2.08	0.89
1:L:175:ASP:HB2	1:L:188:PHE:CZ	2.08	0.88
1:q:175:ASP:HB2	1:q:188:PHE:CZ	2.08	0.88
1:K:175:ASP:HB2	1:K:188:PHE:CZ	2.08	0.88
1:M:175:ASP:HB2	1:M:188:PHE:CZ	2.08	0.88
1:W:175:ASP:HB2	1:W:188:PHE:CZ	2.08	0.88
1:Z:175:ASP:HB2	1:Z:188:PHE:CZ	2.08	0.88
1:4:175:ASP:HB2	1:4:188:PHE:CZ	2.08	0.88
1:n:175:ASP:HB2	1:n:188:PHE:CZ	2.08	0.88
1:6:175:ASP:HB2	1:6:188:PHE:CZ	2.08	0.88
1:T:175:ASP:HB2	1:T:188:PHE:CZ	2.08	0.88
1:d:175:ASP:HB2	1:d:188:PHE:CZ	2.08	0.88
1:j:175:ASP:HB2	1:j:188:PHE:CZ	2.08	0.88
1:8:175:ASP:HB2	1:8:188:PHE:CZ	2.08	0.88
1:P:175:ASP:HB2	1:P:188:PHE:CZ	2.08	0.88
1:G:175:ASP:HB2	1:G:188:PHE:CZ	2.08	0.88
1:7:175:ASP:HB2	1:7:188:PHE:CZ	2.08	0.88
1:m:175:ASP:HB2	1:m:188:PHE:CZ	2.08	0.88
1:t:175:ASP:HB2	1:t:188:PHE:CZ	2.08	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:175:ASP:HB2	1:Y:188:PHE:CZ	2.08	0.88
1:w:175:ASP:HB2	1:w:188:PHE:CZ	2.08	0.87
1:E:175:ASP:HB2	1:E:188:PHE:CZ	2.08	0.87
1:a:67:GLN:HE21	1:a:189:GLN:HB2	1.49	0.78
1:3:67:GLN:HE21	1:3:189:GLN:HB2	1.49	0.78
1:j:67:GLN:HE21	1:j:189:GLN:HB2	1.49	0.78
1:P:67:GLN:HE21	1:P:189:GLN:HB2	1.49	0.77
1:t:67:GLN:HE21	1:t:189:GLN:HB2	1.49	0.77
1:x:67:GLN:HE21	1:x:189:GLN:HB2	1.49	0.77
1:G:67:GLN:HE21	1:G:189:GLN:HB2	1.49	0.77
1:Q:67:GLN:HE21	1:Q:189:GLN:HB2	1.49	0.77
1:c:67:GLN:HE21	1:c:189:GLN:HB2	1.49	0.77
1:B:67:GLN:HE21	1:B:189:GLN:HB2	1.49	0.77
1:R:67:GLN:HE21	1:R:189:GLN:HB2	1.49	0.77
1:e:67:GLN:HE21	1:e:189:GLN:HB2	1.49	0.77
1:l:67:GLN:HE21	1:l:189:GLN:HB2	1.49	0.77
1:l:67:GLN:HE21	1:l:189:GLN:HB2	1.49	0.77
1:q:67:GLN:HE21	1:q:189:GLN:HB2	1.49	0.77
1:h:67:GLN:HE21	1:h:189:GLN:HB2	1.49	0.77
1:v:67:GLN:HE21	1:v:189:GLN:HB2	1.49	0.77
1:A:67:GLN:HE21	1:A:189:GLN:HB2	1.49	0.77
1:I:67:GLN:HE21	1:I:189:GLN:HB2	1.49	0.77
1:O:67:GLN:HE21	1:O:189:GLN:HB2	1.49	0.77
1:W:67:GLN:HE21	1:W:189:GLN:HB2	1.49	0.77
1:8:67:GLN:HE21	1:8:189:GLN:HB2	1.49	0.77
1:M:67:GLN:HE21	1:M:189:GLN:HB2	1.49	0.77
1:u:67:GLN:HE21	1:u:189:GLN:HB2	1.49	0.77
1:Z:67:GLN:HE21	1:Z:189:GLN:HB2	1.49	0.77
1:6:67:GLN:HE21	1:6:189:GLN:HB2	1.49	0.77
1:C:67:GLN:HE21	1:C:189:GLN:HB2	1.49	0.77
1:d:67:GLN:HE21	1:d:189:GLN:HB2	1.49	0.77
1:g:67:GLN:HE21	1:g:189:GLN:HB2	1.49	0.76
1:E:67:GLN:HE21	1:E:189:GLN:HB2	1.49	0.76
1:U:67:GLN:HE21	1:U:189:GLN:HB2	1.49	0.76
1:s:67:GLN:HE21	1:s:189:GLN:HB2	1.49	0.76
1:w:67:GLN:HE21	1:w:189:GLN:HB2	1.49	0.76
1:n:67:GLN:HE21	1:n:189:GLN:HB2	1.49	0.76
1:i:67:GLN:HE21	1:i:189:GLN:HB2	1.49	0.76
1:D:67:GLN:HE21	1:D:189:GLN:HB2	1.49	0.76
1:K:67:GLN:HE21	1:K:189:GLN:HB2	1.49	0.76
1:N:67:GLN:HE21	1:N:189:GLN:HB2	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:67:GLN:HE21	1:b:189:GLN:HB2	1.49	0.76
1:o:67:GLN:HE21	1:o:189:GLN:HB2	1.49	0.76
1:f:67:GLN:HE21	1:f:189:GLN:HB2	1.49	0.76
1:T:67:GLN:HE21	1:T:189:GLN:HB2	1.49	0.76
1:k:67:GLN:HE21	1:k:189:GLN:HB2	1.49	0.76
1:m:67:GLN:HE21	1:m:189:GLN:HB2	1.49	0.76
1:z:67:GLN:HE21	1:z:189:GLN:HB2	1.49	0.76
1:4:67:GLN:HE21	1:4:189:GLN:HB2	1.49	0.76
1:X:67:GLN:HE21	1:X:189:GLN:HB2	1.49	0.76
1:H:67:GLN:HE21	1:H:189:GLN:HB2	1.49	0.75
1:L:67:GLN:HE21	1:L:189:GLN:HB2	1.49	0.75
1:p:67:GLN:HE21	1:p:189:GLN:HB2	1.49	0.75
1:Y:67:GLN:HE21	1:Y:189:GLN:HB2	1.49	0.75
1:5:67:GLN:HE21	1:5:189:GLN:HB2	1.49	0.75
1:V:67:GLN:HE21	1:V:189:GLN:HB2	1.49	0.75
1:S:67:GLN:HE21	1:S:189:GLN:HB2	1.49	0.75
1:7:67:GLN:HE21	1:7:189:GLN:HB2	1.49	0.75
1:F:67:GLN:HE21	1:F:189:GLN:HB2	1.49	0.75
1:r:67:GLN:HE21	1:r:189:GLN:HB2	1.49	0.75
1:2:67:GLN:HE21	1:2:189:GLN:HB2	1.49	0.75
1:y:67:GLN:HE21	1:y:189:GLN:HB2	1.49	0.75
1:J:67:GLN:HE21	1:J:189:GLN:HB2	1.49	0.74
1:J:258:MET:HE3	1:L:167:ASN:HD21	1.53	0.74
1:B:258:MET:HE3	1:J:167:ASN:HD21	1.53	0.73
1:S:258:MET:HE3	1:U:167:ASN:HD21	1.55	0.72
1:r:258:MET:HE3	1:s:167:ASN:HD21	1.55	0.72
1:z:167:ASN:HD21	1:2:258:MET:HE3	1.55	0.72
1:V:167:ASN:HD21	1:X:258:MET:HE3	1.55	0.72
1:o:258:MET:HE3	1:p:167:ASN:HD21	1.55	0.72
1:C:167:ASN:HD21	1:M:258:MET:HE3	1.55	0.72
1:1:258:MET:HE3	1:2:167:ASN:HD21	1.55	0.72
1:6:302:ALA:O	1:6:351:TYR:OH	2.08	0.72
1:V:258:MET:HE3	1:e:167:ASN:HD21	1.55	0.72
1:g:167:ASN:HD21	1:h:258:MET:HE3	1.55	0.72
1:j:258:MET:HE3	1:k:167:ASN:HD21	1.55	0.72
1:D:167:ASN:HD21	1:P:258:MET:HE3	1.55	0.72
1:c:167:ASN:HD21	1:p:258:MET:HE3	1.55	0.72
1:A:302:ALA:O	1:A:351:TYR:OH	2.08	0.71
1:J:258:MET:HE3	1:L:167:ASN:ND2	2.05	0.71
1:M:167:ASN:HD21	1:b:258:MET:HE3	1.55	0.71
1:P:302:ALA:O	1:P:351:TYR:OH	2.08	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:302:ALA:O	1:v:351:TYR:OH	2.08	0.71
1:f:258:MET:HE3	1:h:167:ASN:HD21	1.55	0.71
1:i:258:MET:HE3	1:j:167:ASN:HD21	1.55	0.71
1:n:302:ALA:O	1:n:351:TYR:OH	2.08	0.71
1:N:258:MET:HE3	1:P:167:ASN:HD21	1.55	0.71
1:d:302:ALA:O	1:d:351:TYR:OH	2.08	0.71
1:E:167:ASN:HD21	1:F:258:MET:HE3	1.55	0.71
1:H:258:MET:HE3	1:W:167:ASN:HD21	1.55	0.71
1:p:302:ALA:O	1:p:351:TYR:OH	2.08	0.71
1:w:167:ASN:HD21	1:y:258:MET:HE3	1.55	0.71
1:O:258:MET:HE3	1:m:167:ASN:HD21	1.55	0.71
1:T:167:ASN:HD21	1:l:258:MET:HE3	1.55	0.71
1:V:302:ALA:O	1:V:351:TYR:OH	2.08	0.71
1:u:258:MET:HE3	1:v:167:ASN:HD21	1.55	0.71
1:5:258:MET:HE3	1:6:167:ASN:HD21	1.55	0.71
1:z:258:MET:HE3	1:1:167:ASN:HD21	1.55	0.71
1:A:167:ASN:HD21	1:I:258:MET:HE3	1.56	0.71
1:A:258:MET:HE3	1:G:167:ASN:HD21	1.56	0.71
1:C:258:MET:HE3	1:b:167:ASN:HD21	1.55	0.71
1:G:258:MET:HE3	1:I:167:ASN:HD21	1.55	0.71
1:W:258:MET:HE3	1:Y:167:ASN:HD21	1.55	0.71
1:b:302:ALA:O	1:b:351:TYR:OH	2.08	0.71
1:f:167:ASN:HD21	1:g:258:MET:HE3	1.55	0.71
1:t:258:MET:HE3	1:u:167:ASN:HD21	1.55	0.71
1:6:258:MET:HE3	1:7:167:ASN:HD21	1.55	0.71
1:t:167:ASN:HD21	1:v:258:MET:HE3	1.55	0.71
1:E:258:MET:HE3	1:Q:167:ASN:HD21	1.55	0.71
1:m:258:MET:HE3	1:n:167:ASN:HD21	1.56	0.71
1:w:258:MET:HE3	1:x:167:ASN:HD21	1.55	0.71
1:M:302:ALA:O	1:M:351:TYR:OH	2.08	0.70
1:R:167:ASN:HD21	1:U:258:MET:HE3	1.55	0.70
1:T:258:MET:HE3	1:d:167:ASN:HD21	1.56	0.70
1:q:167:ASN:HD21	1:s:258:MET:HE3	1.55	0.70
1:H:167:ASN:HD21	1:Y:258:MET:HE3	1.55	0.70
1:h:302:ALA:O	1:h:351:TYR:OH	2.08	0.70
1:B:167:ASN:HD21	1:L:258:MET:HE3	1.55	0.70
1:F:167:ASN:HD21	1:Q:258:MET:HE3	1.55	0.70
1:5:167:ASN:HD21	1:7:258:MET:HE3	1.55	0.70
1:P:175:ASP:CB	1:P:188:PHE:CE2	2.75	0.70
1:a:175:ASP:CB	1:a:188:PHE:CE2	2.75	0.70
1:j:175:ASP:CB	1:j:188:PHE:CE2	2.75	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:175:ASP:CB	1:l:188:PHE:CE2	2.75	0.70
1:3:175:ASP:CB	1:3:188:PHE:CE2	2.75	0.70
1:O:175:ASP:CB	1:O:188:PHE:CE2	2.75	0.70
1:d:258:MET:HE3	1:l:167:ASN:HD21	1.55	0.70
1:x:258:MET:HE3	1:y:167:ASN:HD21	1.55	0.70
1:D:175:ASP:CB	1:D:188:PHE:CE2	2.75	0.70
1:K:175:ASP:CB	1:K:188:PHE:CE2	2.75	0.70
1:R:175:ASP:CB	1:R:188:PHE:CE2	2.75	0.70
1:k:175:ASP:CB	1:k:188:PHE:CE2	2.75	0.70
1:q:175:ASP:CB	1:q:188:PHE:CE2	2.75	0.70
1:4:175:ASP:CB	1:4:188:PHE:CE2	2.75	0.70
1:A:175:ASP:CB	1:A:188:PHE:CE2	2.75	0.70
1:B:258:MET:HE3	1:J:167:ASN:ND2	2.06	0.70
1:Z:175:ASP:CB	1:Z:188:PHE:CE2	2.75	0.70
1:b:175:ASP:CB	1:b:188:PHE:CE2	2.75	0.70
1:c:175:ASP:CB	1:c:188:PHE:CE2	2.75	0.70
1:e:175:ASP:CB	1:e:188:PHE:CE2	2.75	0.70
1:f:175:ASP:CB	1:f:188:PHE:CE2	2.75	0.70
1:m:175:ASP:CB	1:m:188:PHE:CE2	2.75	0.70
1:q:167:ASN:ND2	1:s:258:MET:HE3	2.07	0.70
1:v:175:ASP:CB	1:v:188:PHE:CE2	2.75	0.70
1:1:302:ALA:O	1:1:351:TYR:OH	2.08	0.70
1:8:175:ASP:CB	1:8:188:PHE:CE2	2.75	0.70
1:O:167:ASN:HD21	1:n:258:MET:HE3	1.55	0.70
1:R:167:ASN:ND2	1:U:258:MET:HE3	2.07	0.70
1:T:175:ASP:CB	1:T:188:PHE:CE2	2.75	0.70
1:V:175:ASP:CB	1:V:188:PHE:CE2	2.75	0.70
1:X:167:ASN:HD21	1:e:258:MET:HE3	1.55	0.70
1:c:258:MET:HE3	1:o:167:ASN:HD21	1.55	0.70
1:i:167:ASN:HD21	1:k:258:MET:HE3	1.55	0.70
1:p:175:ASP:CB	1:p:188:PHE:CE2	2.75	0.70
1:7:175:ASP:CB	1:7:188:PHE:CE2	2.75	0.70
1:B:302:ALA:O	1:B:351:TYR:OH	2.08	0.70
1:C:175:ASP:CB	1:C:188:PHE:CE2	2.75	0.70
1:E:175:ASP:CB	1:E:188:PHE:CE2	2.75	0.70
1:I:175:ASP:CB	1:I:188:PHE:CE2	2.75	0.70
1:I:302:ALA:O	1:I:351:TYR:OH	2.08	0.70
1:Y:175:ASP:CB	1:Y:188:PHE:CE2	2.75	0.70
1:o:175:ASP:CB	1:o:188:PHE:CE2	2.75	0.70
1:u:175:ASP:CB	1:u:188:PHE:CE2	2.75	0.70
1:w:175:ASP:CB	1:w:188:PHE:CE2	2.75	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:302:ALA:O	1:y:351:TYR:OH	2.08	0.70
1:8:302:ALA:O	1:8:351:TYR:OH	2.08	0.70
1:F:302:ALA:O	1:F:351:TYR:OH	2.08	0.70
1:H:175:ASP:CB	1:H:188:PHE:CE2	2.75	0.70
1:X:175:ASP:CB	1:X:188:PHE:CE2	2.75	0.70
1:a:258:MET:HE3	1:8:167:ASN:HD21	1.55	0.70
1:g:175:ASP:CB	1:g:188:PHE:CE2	2.75	0.70
1:u:302:ALA:O	1:u:351:TYR:OH	2.08	0.70
1:z:167:ASN:ND2	1:2:258:MET:HE3	2.07	0.70
1:5:175:ASP:CB	1:5:188:PHE:CE2	2.75	0.70
1:D:258:MET:HE3	1:N:167:ASN:HD21	1.55	0.69
1:K:167:ASN:HD21	1:8:258:MET:HE3	1.55	0.69
1:K:258:MET:HE3	1:a:167:ASN:HD21	1.55	0.69
1:U:175:ASP:CB	1:U:188:PHE:CE2	2.75	0.69
1:Z:302:ALA:O	1:Z:351:TYR:OH	2.08	0.69
1:r:258:MET:HE3	1:s:167:ASN:ND2	2.07	0.69
1:t:175:ASP:CB	1:t:188:PHE:CE2	2.75	0.69
1:G:175:ASP:CB	1:G:188:PHE:CE2	2.75	0.69
1:S:175:ASP:CB	1:S:188:PHE:CE2	2.75	0.69
1:S:258:MET:HE3	1:U:167:ASN:ND2	2.07	0.69
1:i:175:ASP:CB	1:i:188:PHE:CE2	2.75	0.69
1:r:175:ASP:CB	1:r:188:PHE:CE2	2.75	0.69
1:s:175:ASP:CB	1:s:188:PHE:CE2	2.75	0.69
1:z:258:MET:HE3	1:1:167:ASN:ND2	2.07	0.69
1:N:175:ASP:CB	1:N:188:PHE:CE2	2.75	0.69
1:Z:167:ASN:HD21	1:3:258:MET:HE3	1.55	0.69
1:Z:258:MET:HE3	1:4:167:ASN:HD21	1.55	0.69
1:f:302:ALA:O	1:f:351:TYR:OH	2.08	0.69
1:2:175:ASP:CB	1:2:188:PHE:CE2	2.75	0.69
1:6:175:ASP:CB	1:6:188:PHE:CE2	2.75	0.69
1:D:258:MET:HE3	1:N:167:ASN:ND2	2.08	0.69
1:L:175:ASP:CB	1:L:188:PHE:CE2	2.75	0.69
1:M:175:ASP:CB	1:M:188:PHE:CE2	2.75	0.69
1:O:167:ASN:ND2	1:n:258:MET:HE3	2.08	0.69
1:R:258:MET:HE3	1:S:167:ASN:HD21	1.55	0.69
1:W:175:ASP:CB	1:W:188:PHE:CE2	2.75	0.69
1:d:258:MET:HE3	1:l:167:ASN:ND2	2.08	0.69
1:i:167:ASN:ND2	1:k:258:MET:HE3	2.08	0.69
1:z:175:ASP:CB	1:z:188:PHE:CE2	2.75	0.69
1:J:175:ASP:CB	1:J:188:PHE:CE2	2.75	0.69
1:N:258:MET:HE3	1:P:167:ASN:ND2	2.08	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:258:MET:HE3	1:m:167:ASN:ND2	2.08	0.69
1:R:258:MET:HE3	1:S:167:ASN:ND2	2.08	0.69
1:T:167:ASN:ND2	1:l:258:MET:HE3	2.08	0.69
1:h:175:ASP:CB	1:h:188:PHE:CE2	2.75	0.69
1:q:258:MET:HE3	1:r:167:ASN:ND2	2.08	0.69
1:u:258:MET:HE3	1:v:167:ASN:ND2	2.08	0.69
1:x:175:ASP:CB	1:x:188:PHE:CE2	2.75	0.69
1:3:167:ASN:HD21	1:4:258:MET:HE3	1.56	0.69
1:B:175:ASP:CB	1:B:188:PHE:CE2	2.75	0.69
1:c:258:MET:HE3	1:o:167:ASN:ND2	2.08	0.69
1:i:258:MET:HE3	1:j:167:ASN:ND2	2.08	0.69
1:q:258:MET:HE3	1:r:167:ASN:HD21	1.55	0.69
1:l:175:ASP:CB	1:l:188:PHE:CE2	2.75	0.69
1:A:167:ASN:ND2	1:I:258:MET:HE3	2.08	0.69
1:H:258:MET:HE3	1:W:167:ASN:ND2	2.08	0.69
1:Q:175:ASP:CB	1:Q:188:PHE:CE2	2.75	0.69
1:X:167:ASN:ND2	1:e:258:MET:HE3	2.08	0.69
1:C:258:MET:HE3	1:b:167:ASN:ND2	2.07	0.69
1:E:167:ASN:ND2	1:F:258:MET:HE3	2.08	0.69
1:K:302:ALA:O	1:K:351:TYR:OH	2.08	0.69
1:M:167:ASN:ND2	1:b:258:MET:HE3	2.08	0.69
1:W:258:MET:HE3	1:Y:167:ASN:ND2	2.08	0.69
1:d:175:ASP:CB	1:d:188:PHE:CE2	2.75	0.69
1:f:167:ASN:ND2	1:g:258:MET:HE3	2.07	0.69
1:f:258:MET:HE3	1:h:167:ASN:ND2	2.08	0.69
1:n:175:ASP:CB	1:n:188:PHE:CE2	2.75	0.69
1:w:167:ASN:ND2	1:y:258:MET:HE3	2.08	0.69
1:y:175:ASP:CB	1:y:188:PHE:CE2	2.75	0.69
1:4:302:ALA:O	1:4:351:TYR:OH	2.08	0.69
1:5:258:MET:HE3	1:6:167:ASN:ND2	2.08	0.69
1:F:175:ASP:CB	1:F:188:PHE:CE2	2.75	0.69
1:K:258:MET:HE3	1:a:167:ASN:ND2	2.08	0.69
1:U:302:ALA:O	1:U:351:TYR:OH	2.08	0.69
1:s:302:ALA:O	1:s:351:TYR:OH	2.08	0.69
1:6:258:MET:HE3	1:7:167:ASN:ND2	2.08	0.69
1:B:167:ASN:ND2	1:L:258:MET:HE3	2.08	0.69
1:G:302:ALA:O	1:G:351:TYR:OH	2.08	0.69
1:T:158:PHE:HB2	1:T:226:HIS:HB3	1.76	0.69
1:V:258:MET:HE3	1:e:167:ASN:ND2	2.07	0.69
1:m:158:PHE:HB2	1:m:226:HIS:HB3	1.76	0.69
1:y:158:PHE:HB2	1:y:226:HIS:HB3	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:258:MET:HE3	1:2:167:ASN:ND2	2.08	0.69
1:3:302:ALA:O	1:3:351:TYR:OH	2.08	0.69
1:D:158:PHE:HB2	1:D:226:HIS:HB3	1.76	0.68
1:F:158:PHE:HB2	1:F:226:HIS:HB3	1.75	0.68
1:J:384:ARG:HG3	1:L:302:ALA:HB2	1.74	0.68
1:N:302:ALA:O	1:N:351:TYR:OH	2.08	0.68
1:U:158:PHE:HB2	1:U:226:HIS:HB3	1.76	0.68
1:a:258:MET:HE3	1:8:167:ASN:ND2	2.08	0.68
1:c:167:ASN:ND2	1:p:258:MET:HE3	2.07	0.68
1:c:450:LYS:NZ	1:s:182:TYR:O	2.26	0.68
1:i:302:ALA:O	1:i:351:TYR:OH	2.08	0.68
1:k:158:PHE:HB2	1:k:226:HIS:HB3	1.76	0.68
1:t:302:ALA:O	1:t:351:TYR:OH	2.08	0.68
1:D:167:ASN:ND2	1:P:258:MET:HE3	2.08	0.68
1:U:182:TYR:O	1:e:450:LYS:NZ	2.26	0.68
1:Y:302:ALA:O	1:Y:351:TYR:OH	2.08	0.68
1:q:302:ALA:O	1:q:351:TYR:OH	2.08	0.68
1:s:158:PHE:HB2	1:s:226:HIS:HB3	1.76	0.68
1:G:258:MET:HE3	1:I:167:ASN:ND2	2.08	0.68
1:O:450:LYS:NZ	1:d:182:TYR:O	2.26	0.68
1:Z:167:ASN:ND2	1:3:258:MET:HE3	2.08	0.68
1:a:158:PHE:HB2	1:a:226:HIS:HB3	1.76	0.68
1:a:302:ALA:O	1:a:351:TYR:OH	2.08	0.68
1:c:158:PHE:HB2	1:c:226:HIS:HB3	1.75	0.68
1:e:158:PHE:HB2	1:e:226:HIS:HB3	1.75	0.68
1:e:302:ALA:O	1:e:351:TYR:OH	2.08	0.68
1:l:450:LYS:NZ	1:n:182:TYR:O	2.26	0.68
1:o:258:MET:HE3	1:p:167:ASN:ND2	2.08	0.68
1:3:158:PHE:HB2	1:3:226:HIS:HB3	1.76	0.68
1:3:167:ASN:ND2	1:4:258:MET:HE3	2.08	0.68
1:5:167:ASN:ND2	1:7:258:MET:HE3	2.08	0.68
1:H:167:ASN:ND2	1:Y:258:MET:HE3	2.08	0.68
1:K:167:ASN:ND2	1:8:258:MET:HE3	2.08	0.68
1:O:182:TYR:O	1:P:450:LYS:NZ	2.26	0.68
1:Z:258:MET:HE3	1:4:167:ASN:ND2	2.08	0.68
1:j:258:MET:HE3	1:k:167:ASN:ND2	2.08	0.68
1:r:158:PHE:HB2	1:r:226:HIS:HB3	1.76	0.68
1:t:258:MET:HE3	1:u:167:ASN:ND2	2.08	0.68
1:K:158:PHE:HB2	1:K:226:HIS:HB3	1.75	0.68
1:O:158:PHE:HB2	1:O:226:HIS:HB3	1.76	0.68
1:R:302:ALA:O	1:R:351:TYR:OH	2.08	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:450:LYS:NZ	1:V:182:TYR:O	2.26	0.68
1:V:167:ASN:ND2	1:X:258:MET:HE3	2.08	0.68
1:j:450:LYS:NZ	1:l:182:TYR:O	2.26	0.68
1:p:158:PHE:HB2	1:p:226:HIS:HB3	1.76	0.68
1:p:182:TYR:O	1:q:450:LYS:NZ	2.26	0.68
1:x:302:ALA:O	1:x:351:TYR:OH	2.08	0.68
1:7:302:ALA:O	1:7:351:TYR:OH	2.08	0.68
1:Q:158:PHE:HB2	1:Q:226:HIS:HB3	1.75	0.68
1:S:302:ALA:O	1:S:351:TYR:OH	2.08	0.68
1:V:158:PHE:HB2	1:V:226:HIS:HB3	1.76	0.68
1:c:302:ALA:O	1:c:351:TYR:OH	2.08	0.68
1:g:167:ASN:ND2	1:h:258:MET:HE3	2.08	0.68
1:C:167:ASN:ND2	1:M:258:MET:HE3	2.08	0.68
1:E:258:MET:HE3	1:Q:167:ASN:ND2	2.08	0.68
1:S:158:PHE:HB2	1:S:226:HIS:HB3	1.76	0.68
1:l:158:PHE:HB2	1:l:226:HIS:HB3	1.76	0.68
1:o:302:ALA:O	1:o:351:TYR:OH	2.08	0.68
1:r:302:ALA:O	1:r:351:TYR:OH	2.08	0.68
1:x:158:PHE:HB2	1:x:226:HIS:HB3	1.75	0.68
1:I:182:TYR:O	1:J:450:LYS:NZ	2.24	0.68
1:O:302:ALA:O	1:O:351:TYR:OH	2.08	0.68
1:w:258:MET:HE3	1:x:167:ASN:ND2	2.08	0.68
1:4:158:PHE:HB2	1:4:226:HIS:HB3	1.76	0.68
1:F:167:ASN:ND2	1:Q:258:MET:HE3	2.08	0.68
1:Q:302:ALA:O	1:Q:351:TYR:OH	2.08	0.68
1:x:258:MET:HE3	1:y:167:ASN:ND2	2.08	0.68
1:W:158:PHE:HB2	1:W:226:HIS:HB3	1.76	0.68
1:j:158:PHE:HB2	1:j:226:HIS:HB3	1.76	0.68
1:m:302:ALA:O	1:m:351:TYR:OH	2.08	0.68
1:n:158:PHE:HB2	1:n:226:HIS:HB3	1.76	0.68
1:o:158:PHE:HB2	1:o:226:HIS:HB3	1.76	0.68
1:v:158:PHE:HB2	1:v:226:HIS:HB3	1.75	0.68
1:z:158:PHE:HB2	1:z:226:HIS:HB3	1.76	0.68
1:A:158:PHE:HB2	1:A:226:HIS:HB3	1.75	0.67
1:E:302:ALA:O	1:E:351:TYR:OH	2.08	0.67
1:L:158:PHE:HB2	1:L:226:HIS:HB3	1.76	0.67
1:T:258:MET:HE3	1:d:167:ASN:ND2	2.08	0.67
1:q:302:ALA:HB2	1:s:384:ARG:HG3	1.76	0.67
1:6:158:PHE:HB2	1:6:226:HIS:HB3	1.76	0.67
1:A:258:MET:HE3	1:G:167:ASN:ND2	2.08	0.67
1:P:158:PHE:HB2	1:P:226:HIS:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:302:ALA:HB2	1:U:384:ARG:HG3	1.76	0.67
1:X:158:PHE:HB2	1:X:226:HIS:HB3	1.76	0.67
1:X:450:LYS:NZ	1:f:182:TYR:O	2.26	0.67
1:Z:158:PHE:HB2	1:Z:226:HIS:HB3	1.76	0.67
1:d:158:PHE:HB2	1:d:226:HIS:HB3	1.76	0.67
1:m:258:MET:HE3	1:n:167:ASN:ND2	2.08	0.67
1:n:450:LYS:NZ	1:r:182:TYR:O	2.27	0.67
1:t:167:ASN:ND2	1:v:258:MET:HE3	2.08	0.67
1:t:182:TYR:O	1:6:450:LYS:NZ	2.26	0.67
1:w:302:ALA:O	1:w:351:TYR:OH	2.08	0.67
1:b:182:TYR:O	1:o:450:LYS:NZ	2.26	0.67
1:8:158:PHE:HB2	1:8:226:HIS:HB3	1.76	0.67
1:G:182:TYR:O	1:W:450:LYS:NZ	2.26	0.67
1:S:182:TYR:O	1:d:450:LYS:NZ	2.27	0.67
1:T:302:ALA:O	1:T:351:TYR:OH	2.08	0.67
1:T:450:LYS:NZ	1:i:182:TYR:O	2.26	0.67
1:3:175:ASP:HB3	1:3:188:PHE:CE2	2.30	0.67
1:F:182:TYR:O	1:G:450:LYS:NZ	2.27	0.67
1:I:175:ASP:HB3	1:I:188:PHE:CE2	2.30	0.67
1:N:182:TYR:O	1:m:450:LYS:NZ	2.26	0.67
1:a:175:ASP:HB3	1:a:188:PHE:CE2	2.30	0.67
1:i:175:ASP:HB3	1:i:188:PHE:CE2	2.30	0.67
1:B:384:ARG:HG3	1:J:302:ALA:HB2	1.76	0.67
1:N:175:ASP:HB3	1:N:188:PHE:CE2	2.30	0.67
1:T:175:ASP:HB3	1:T:188:PHE:CE2	2.30	0.67
1:U:175:ASP:HB3	1:U:188:PHE:CE2	2.30	0.67
1:Z:175:ASP:HB3	1:Z:188:PHE:CE2	2.30	0.67
1:g:249:GLU:HG3	1:g:536:LYS:HD3	1.77	0.67
1:k:175:ASP:HB3	1:k:188:PHE:CE2	2.30	0.67
1:m:175:ASP:HB3	1:m:188:PHE:CE2	2.30	0.67
1:o:384:ARG:HG3	1:p:302:ALA:HB2	1.77	0.67
1:s:175:ASP:HB3	1:s:188:PHE:CE2	2.30	0.67
1:t:450:LYS:NZ	1:y:182:TYR:O	2.27	0.67
1:u:158:PHE:HB2	1:u:226:HIS:HB3	1.75	0.67
1:u:175:ASP:HB3	1:u:188:PHE:CE2	2.30	0.67
1:5:249:GLU:HG3	1:5:536:LYS:HD3	1.77	0.67
1:8:175:ASP:HB3	1:8:188:PHE:CE2	2.30	0.67
1:A:175:ASP:HB3	1:A:188:PHE:CE2	2.30	0.67
1:C:249:GLU:HG3	1:C:536:LYS:HD3	1.77	0.67
1:C:302:ALA:O	1:C:351:TYR:OH	2.08	0.67
1:D:175:ASP:HB3	1:D:188:PHE:CE2	2.30	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:158:PHE:HB2	1:G:226:HIS:HB3	1.76	0.67
1:H:249:GLU:HG3	1:H:536:LYS:HD3	1.77	0.67
1:I:158:PHE:HB2	1:I:226:HIS:HB3	1.76	0.67
1:m:249:GLU:HG3	1:m:536:LYS:HD3	1.77	0.67
1:t:158:PHE:HB2	1:t:226:HIS:HB3	1.76	0.67
1:v:175:ASP:HB3	1:v:188:PHE:CE2	2.30	0.67
1:B:175:ASP:HB3	1:B:188:PHE:CE2	2.30	0.67
1:G:249:GLU:HG3	1:G:536:LYS:HD3	1.77	0.67
1:N:158:PHE:HB2	1:N:226:HIS:HB3	1.76	0.67
1:Q:175:ASP:HB3	1:Q:188:PHE:CE2	2.30	0.67
1:T:182:TYR:O	1:U:450:LYS:NZ	2.26	0.67
1:T:249:GLU:HG3	1:T:536:LYS:HD3	1.77	0.67
1:V:302:ALA:HB2	1:X:384:ARG:HG3	1.77	0.67
1:W:175:ASP:HB3	1:W:188:PHE:CE2	2.30	0.67
1:Z:450:LYS:NZ	1:a:182:TYR:O	2.26	0.67
1:e:175:ASP:HB3	1:e:188:PHE:CE2	2.30	0.67
1:g:109:GLN:HE22	1:z:490:GLU:HG3	1.60	0.67
1:g:302:ALA:O	1:g:351:TYR:OH	2.08	0.67
1:k:302:ALA:O	1:k:351:TYR:OH	2.08	0.67
1:x:175:ASP:HB3	1:x:188:PHE:CE2	2.30	0.67
1:1:175:ASP:HB3	1:1:188:PHE:CE2	2.30	0.67
1:6:175:ASP:HB3	1:6:188:PHE:CE2	2.30	0.67
1:H:175:ASP:HB3	1:H:188:PHE:CE2	2.30	0.67
1:J:158:PHE:HB2	1:J:226:HIS:HB3	1.75	0.67
1:M:450:LYS:NZ	1:c:182:TYR:O	2.26	0.67
1:U:249:GLU:HG3	1:U:536:LYS:HD3	1.77	0.67
1:c:175:ASP:HB3	1:c:188:PHE:CE2	2.30	0.67
1:h:249:GLU:HG3	1:h:536:LYS:HD3	1.77	0.67
1:t:249:GLU:HG3	1:t:536:LYS:HD3	1.77	0.67
1:3:182:TYR:O	1:8:450:LYS:NZ	2.26	0.67
1:3:249:GLU:HG3	1:3:536:LYS:HD3	1.77	0.67
1:5:158:PHE:HB2	1:5:226:HIS:HB3	1.76	0.67
1:G:175:ASP:HB3	1:G:188:PHE:CE2	2.30	0.67
1:M:249:GLU:HG3	1:M:536:LYS:HD3	1.77	0.67
1:R:158:PHE:HB2	1:R:226:HIS:HB3	1.76	0.67
1:S:384:ARG:HG3	1:U:302:ALA:HB2	1.77	0.67
1:W:384:ARG:HG3	1:Y:302:ALA:HB2	1.77	0.67
1:Z:302:ALA:HB2	1:3:384:ARG:HG3	1.78	0.67
1:a:249:GLU:HG3	1:a:536:LYS:HD3	1.77	0.67
1:a:384:ARG:HG3	1:8:302:ALA:HB2	1.77	0.67
1:i:158:PHE:HB2	1:i:226:HIS:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:182:TYR:O	1:s:450:LYS:NZ	2.26	0.67
1:s:249:GLU:HG3	1:s:536:LYS:HD3	1.77	0.67
1:2:158:PHE:HB2	1:2:226:HIS:HB3	1.76	0.67
1:5:175:ASP:HB3	1:5:188:PHE:CE2	2.30	0.67
1:D:302:ALA:O	1:D:351:TYR:OH	2.08	0.66
1:H:158:PHE:HB2	1:H:226:HIS:HB3	1.76	0.66
1:H:302:ALA:HB2	1:Y:384:ARG:HG3	1.77	0.66
1:P:182:TYR:O	1:Q:450:LYS:NZ	2.26	0.66
1:c:249:GLU:HG3	1:c:536:LYS:HD3	1.77	0.66
1:e:182:TYR:O	1:h:450:LYS:NZ	2.26	0.66
1:n:175:ASP:HB3	1:n:188:PHE:CE2	2.30	0.66
1:q:158:PHE:HB2	1:q:226:HIS:HB3	1.76	0.66
1:r:384:ARG:HG3	1:s:302:ALA:HB2	1.77	0.66
1:t:175:ASP:HB3	1:t:188:PHE:CE2	2.30	0.66
1:z:249:GLU:HG3	1:z:536:LYS:HD3	1.77	0.66
1:6:384:ARG:HG3	1:7:302:ALA:HB2	1.77	0.66
1:D:302:ALA:HB2	1:P:384:ARG:HG3	1.77	0.66
1:J:175:ASP:HB3	1:J:188:PHE:CE2	2.30	0.66
1:L:249:GLU:HG3	1:L:536:LYS:HD3	1.77	0.66
1:L:302:ALA:O	1:L:351:TYR:OH	2.08	0.66
1:Q:249:GLU:HG3	1:Q:536:LYS:HD3	1.77	0.66
1:X:175:ASP:HB3	1:X:188:PHE:CE2	2.30	0.66
1:d:175:ASP:HB3	1:d:188:PHE:CE2	2.30	0.66
1:d:249:GLU:HG3	1:d:536:LYS:HD3	1.77	0.66
1:e:249:GLU:HG3	1:e:536:LYS:HD3	1.77	0.66
1:f:450:LYS:NZ	1:z:182:TYR:O	2.26	0.66
1:g:158:PHE:HB2	1:g:226:HIS:HB3	1.76	0.66
1:n:249:GLU:HG3	1:n:536:LYS:HD3	1.77	0.66
1:r:249:GLU:HG3	1:r:536:LYS:HD3	1.77	0.66
1:y:175:ASP:HB3	1:y:188:PHE:CE2	2.30	0.66
1:2:175:ASP:HB3	1:2:188:PHE:CE2	2.30	0.66
1:2:249:GLU:HG3	1:2:536:LYS:HD3	1.77	0.66
1:4:175:ASP:HB3	1:4:188:PHE:CE2	2.30	0.66
1:C:158:PHE:HB2	1:C:226:HIS:HB3	1.76	0.66
1:K:175:ASP:HB3	1:K:188:PHE:CE2	2.30	0.66
1:L:182:TYR:O	1:b:450:LYS:NZ	2.27	0.66
1:Q:182:TYR:O	1:S:450:LYS:NZ	2.26	0.66
1:S:249:GLU:HG3	1:S:536:LYS:HD3	1.77	0.66
1:Y:175:ASP:HB3	1:Y:188:PHE:CE2	2.30	0.66
1:b:109:GLN:HE22	1:c:490:GLU:HG3	1.61	0.66
1:b:175:ASP:HB3	1:b:188:PHE:CE2	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:158:PHE:HB2	1:f:226:HIS:HB3	1.75	0.66
1:f:175:ASP:HB3	1:f:188:PHE:CE2	2.30	0.66
1:j:175:ASP:HB3	1:j:188:PHE:CE2	2.30	0.66
1:j:182:TYR:O	1:x:450:LYS:NZ	2.26	0.66
1:j:384:ARG:HG3	1:k:302:ALA:HB2	1.77	0.66
1:o:175:ASP:HB3	1:o:188:PHE:CE2	2.30	0.66
1:w:158:PHE:HB2	1:w:226:HIS:HB3	1.76	0.66
1:x:249:GLU:HG3	1:x:536:LYS:HD3	1.77	0.66
1:z:302:ALA:O	1:z:351:TYR:OH	2.08	0.66
1:5:302:ALA:HB2	1:7:384:ARG:HG3	1.77	0.66
1:7:175:ASP:HB3	1:7:188:PHE:CE2	2.30	0.66
1:B:403:ILE:HD13	1:J:420:PRO:HG2	1.78	0.66
1:E:158:PHE:HB2	1:E:226:HIS:HB3	1.76	0.66
1:F:175:ASP:HB3	1:F:188:PHE:CE2	2.30	0.66
1:J:249:GLU:HG3	1:J:536:LYS:HD3	1.77	0.66
1:J:490:GLU:HG3	1:K:109:GLN:HE22	1.60	0.66
1:O:249:GLU:HG3	1:O:536:LYS:HD3	1.77	0.66
1:P:175:ASP:HB3	1:P:188:PHE:CE2	2.30	0.66
1:X:302:ALA:O	1:X:351:TYR:OH	2.08	0.66
1:b:158:PHE:HB2	1:b:226:HIS:HB3	1.76	0.66
1:e:490:GLU:HG3	1:f:109:GLN:HE22	1.61	0.66
1:g:302:ALA:HB2	1:h:384:ARG:HG3	1.77	0.66
1:l:249:GLU:HG3	1:l:536:LYS:HD3	1.77	0.66
1:r:450:LYS:NZ	1:x:182:TYR:O	2.26	0.66
1:u:182:TYR:O	1:2:450:LYS:NZ	2.26	0.66
1:C:302:ALA:HB2	1:M:384:ARG:HG3	1.77	0.66
1:K:384:ARG:HG3	1:a:302:ALA:HB2	1.78	0.66
1:O:175:ASP:HB3	1:O:188:PHE:CE2	2.30	0.66
1:Y:158:PHE:HB2	1:Y:226:HIS:HB3	1.76	0.66
1:Y:249:GLU:HG3	1:Y:536:LYS:HD3	1.77	0.66
1:m:384:ARG:HG3	1:n:302:ALA:HB2	1.78	0.66
1:o:490:GLU:HG3	1:6:109:GLN:HE22	1.61	0.66
1:p:450:LYS:NZ	1:6:182:TYR:O	2.26	0.66
1:w:175:ASP:HB3	1:w:188:PHE:CE2	2.30	0.66
1:z:175:ASP:HB3	1:z:188:PHE:CE2	2.30	0.66
1:3:302:ALA:HB2	1:4:384:ARG:HG3	1.78	0.66
1:7:249:GLU:HG3	1:7:536:LYS:HD3	1.77	0.66
1:A:450:LYS:NZ	1:B:182:TYR:O	2.27	0.66
1:K:249:GLU:HG3	1:K:536:LYS:HD3	1.77	0.66
1:T:384:ARG:HG3	1:d:302:ALA:HB2	1.78	0.66
1:W:249:GLU:HG3	1:W:536:LYS:HD3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:175:ASP:HB3	1:l:188:PHE:CE2	2.30	0.66
1:v:490:GLU:HG3	1:y:109:GLN:HE22	1.61	0.66
1:4:249:GLU:HG3	1:4:536:LYS:HD3	1.77	0.66
1:B:158:PHE:HB2	1:B:226:HIS:HB3	1.75	0.66
1:E:175:ASP:HB3	1:E:188:PHE:CE2	2.30	0.66
1:H:384:ARG:HG3	1:W:302:ALA:HB2	1.77	0.66
1:L:175:ASP:HB3	1:L:188:PHE:CE2	2.30	0.66
1:R:175:ASP:HB3	1:R:188:PHE:CE2	2.30	0.66
1:R:384:ARG:HG3	1:S:302:ALA:HB2	1.77	0.66
1:V:450:LYS:NZ	1:W:182:TYR:O	2.26	0.66
1:W:109:GLN:HE22	1:X:490:GLU:HG3	1.61	0.66
1:g:182:TYR:O	1:1:450:LYS:NZ	2.26	0.66
1:v:450:LYS:NZ	1:1:182:TYR:O	2.27	0.66
1:6:249:GLU:HG3	1:6:536:LYS:HD3	1.77	0.66
1:B:450:LYS:NZ	1:C:182:TYR:O	2.26	0.66
1:C:490:GLU:HG3	1:L:109:GLN:HE22	1.61	0.66
1:D:249:GLU:HG3	1:D:536:LYS:HD3	1.77	0.66
1:D:490:GLU:HG3	1:M:109:GLN:HE22	1.61	0.66
1:E:384:ARG:HG3	1:Q:302:ALA:HB2	1.77	0.66
1:M:302:ALA:HB2	1:b:384:ARG:HG3	1.78	0.66
1:P:249:GLU:HG3	1:P:536:LYS:HD3	1.77	0.66
1:S:175:ASP:HB3	1:S:188:PHE:CE2	2.30	0.66
1:V:175:ASP:HB3	1:V:188:PHE:CE2	2.30	0.66
1:Y:490:GLU:HG3	1:Z:109:GLN:HE22	1.61	0.66
1:b:249:GLU:HG3	1:b:536:LYS:HD3	1.77	0.66
1:f:249:GLU:HG3	1:f:536:LYS:HD3	1.77	0.66
1:f:384:ARG:HG3	1:h:302:ALA:HB2	1.78	0.66
1:h:109:GLN:HE22	1:k:490:GLU:HG3	1.61	0.66
1:j:249:GLU:HG3	1:j:536:LYS:HD3	1.77	0.66
1:q:175:ASP:HB3	1:q:188:PHE:CE2	2.30	0.66
1:r:175:ASP:HB3	1:r:188:PHE:CE2	2.30	0.66
1:w:384:ARG:HG3	1:x:302:ALA:HB2	1.77	0.66
1:1:158:PHE:HB2	1:1:226:HIS:HB3	1.76	0.66
1:7:158:PHE:HB2	1:7:226:HIS:HB3	1.76	0.66
1:A:109:GLN:HE22	1:F:490:GLU:HG3	1.61	0.66
1:A:490:GLU:HG3	1:F:109:GLN:HE22	1.61	0.66
1:G:384:ARG:HG3	1:I:302:ALA:HB2	1.77	0.66
1:h:158:PHE:HB2	1:h:226:HIS:HB3	1.76	0.66
1:k:249:GLU:HG3	1:k:536:LYS:HD3	1.77	0.66
1:p:175:ASP:HB3	1:p:188:PHE:CE2	2.30	0.66
1:q:384:ARG:HG3	1:r:302:ALA:HB2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:384:ARG:HG3	1:u:302:ALA:HB2	1.77	0.66
1:5:384:ARG:HG3	1:6:302:ALA:HB2	1.77	0.66
1:7:490:GLU:HG3	1:8:109:GLN:HE22	1.61	0.66
1:H:450:LYS:NZ	1:Z:182:TYR:O	2.26	0.66
1:K:182:TYR:O	1:L:450:LYS:NZ	2.26	0.66
1:N:490:GLU:HG3	1:O:109:GLN:HE22	1.61	0.66
1:O:302:ALA:HB2	1:n:384:ARG:HG3	1.77	0.66
1:g:175:ASP:HB3	1:g:188:PHE:CE2	2.30	0.66
1:g:450:LYS:NZ	1:k:182:TYR:O	2.26	0.66
1:i:490:GLU:HG3	1:l:109:GLN:HE22	1.61	0.66
1:v:109:GLN:HE22	1:y:490:GLU:HG3	1.61	0.66
1:z:384:ARG:HG3	1:1:302:ALA:HB2	1.76	0.66
1:2:490:GLU:HG3	1:4:109:GLN:HE22	1.61	0.66
1:A:384:ARG:HG3	1:G:302:ALA:HB2	1.78	0.65
1:C:109:GLN:HE22	1:L:490:GLU:HG3	1.61	0.65
1:o:249:GLU:HG3	1:o:536:LYS:HD3	1.77	0.65
1:t:302:ALA:HB2	1:v:384:ARG:HG3	1.78	0.65
1:5:450:LYS:NZ	1:8:182:TYR:O	2.26	0.65
1:C:104:SER:HB2	1:C:177:MET:CE	2.27	0.65
1:E:302:ALA:HB2	1:F:384:ARG:HG3	1.78	0.65
1:M:158:PHE:HB2	1:M:226:HIS:HB3	1.76	0.65
1:X:249:GLU:HG3	1:X:536:LYS:HD3	1.77	0.65
1:d:384:ARG:HG3	1:l:302:ALA:HB2	1.77	0.65
1:g:104:SER:HB2	1:g:177:MET:CE	2.27	0.65
1:w:302:ALA:HB2	1:y:384:ARG:HG3	1.78	0.65
1:C:175:ASP:HB3	1:C:188:PHE:CE2	2.30	0.65
1:C:450:LYS:NZ	1:D:182:TYR:O	2.26	0.65
1:E:104:SER:HB2	1:E:177:MET:CE	2.27	0.65
1:J:109:GLN:HE22	1:K:490:GLU:HG3	1.61	0.65
1:M:175:ASP:HB3	1:M:188:PHE:CE2	2.30	0.65
1:Q:109:GLN:HE22	1:R:490:GLU:HG3	1.61	0.65
1:W:490:GLU:HG3	1:X:109:GLN:HE22	1.61	0.65
1:Z:104:SER:HB2	1:Z:177:MET:CE	2.27	0.65
1:c:104:SER:HB2	1:c:177:MET:CE	2.27	0.65
1:e:104:SER:HB2	1:e:177:MET:CE	2.27	0.65
1:e:109:GLN:HE22	1:f:490:GLU:HG3	1.61	0.65
1:q:104:SER:HB2	1:q:177:MET:CE	2.27	0.65
1:q:490:GLU:HG3	1:x:109:GLN:HE22	1.61	0.65
1:u:104:SER:HB2	1:u:177:MET:CE	2.27	0.65
1:w:104:SER:HB2	1:w:177:MET:CE	2.27	0.65
1:z:450:LYS:NZ	1:4:182:TYR:O	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:104:SER:HB2	1:8:177:MET:CE	2.27	0.65
1:B:249:GLU:HG3	1:B:536:LYS:HD3	1.77	0.65
1:G:104:SER:HB2	1:G:177:MET:CE	2.27	0.65
1:H:104:SER:HB2	1:H:177:MET:CE	2.27	0.65
1:I:104:SER:HB2	1:I:177:MET:CE	2.27	0.65
1:L:104:SER:HB2	1:L:177:MET:CE	2.27	0.65
1:R:104:SER:HB2	1:R:177:MET:CE	2.27	0.65
1:l:302:ALA:O	1:l:351:TYR:OH	2.08	0.65
1:u:450:LYS:NZ	1:5:182:TYR:O	2.26	0.65
1:v:104:SER:HB2	1:v:177:MET:CE	2.27	0.65
1:A:104:SER:HB2	1:A:177:MET:CE	2.27	0.65
1:B:490:GLU:HG3	1:I:109:GLN:HE22	1.61	0.65
1:D:384:ARG:HG3	1:N:302:ALA:HB2	1.77	0.65
1:H:182:TYR:O	1:I:450:LYS:NZ	2.26	0.65
1:K:104:SER:HB2	1:K:177:MET:CE	2.27	0.65
1:K:450:LYS:NZ	1:7:182:TYR:O	2.26	0.65
1:N:104:SER:HB2	1:N:177:MET:CE	2.27	0.65
1:T:175:ASP:HB2	1:T:188:PHE:CE2	2.32	0.65
1:Z:384:ARG:HG3	1:4:302:ALA:HB2	1.77	0.65
1:g:490:GLU:HG3	1:z:109:GLN:HE22	1.61	0.65
1:m:175:ASP:HB2	1:m:188:PHE:CE2	2.32	0.65
1:o:109:GLN:HE22	1:6:490:GLU:HG3	1.61	0.65
1:t:104:SER:HB2	1:t:177:MET:CE	2.27	0.65
1:y:104:SER:HB2	1:y:177:MET:CE	2.27	0.65
1:z:104:SER:HB2	1:z:177:MET:CE	2.27	0.65
1:2:302:ALA:O	1:2:351:TYR:OH	2.08	0.65
1:5:104:SER:HB2	1:5:177:MET:CE	2.27	0.65
1:B:109:GLN:HE22	1:I:490:GLU:HG3	1.61	0.65
1:E:249:GLU:HG3	1:E:536:LYS:HD3	1.77	0.65
1:F:104:SER:HB2	1:F:177:MET:CE	2.27	0.65
1:K:302:ALA:HB2	1:8:384:ARG:HG3	1.77	0.65
1:M:104:SER:HB2	1:M:177:MET:CE	2.27	0.65
1:O:104:SER:HB2	1:O:177:MET:CE	2.27	0.65
1:P:104:SER:HB2	1:P:177:MET:CE	2.27	0.65
1:X:302:ALA:HB2	1:e:384:ARG:HG3	1.78	0.65
1:b:104:SER:HB2	1:b:177:MET:CE	2.27	0.65
1:b:490:GLU:HG3	1:c:109:GLN:HE22	1.61	0.65
1:c:384:ARG:HG3	1:o:302:ALA:HB2	1.78	0.65
1:h:104:SER:HB2	1:h:177:MET:CE	2.27	0.65
1:h:175:ASP:HB3	1:h:188:PHE:CE2	2.30	0.65
1:i:104:SER:HB2	1:i:177:MET:CE	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:302:ALA:O	1:j:351:TYR:OH	2.08	0.65
1:k:450:LYS:NZ	1:w:182:TYR:O	2.26	0.65
1:p:249:GLU:HG3	1:p:536:LYS:HD3	1.77	0.65
1:t:490:GLU:HG3	1:5:109:GLN:HE22	1.61	0.65
1:u:384:ARG:HG3	1:v:302:ALA:HB2	1.78	0.65
1:w:249:GLU:HG3	1:w:536:LYS:HD3	1.77	0.65
1:1:384:ARG:HG3	1:2:302:ALA:HB2	1.77	0.65
1:4:104:SER:HB2	1:4:177:MET:CE	2.27	0.65
1:5:302:ALA:O	1:5:351:TYR:OH	2.08	0.65
1:A:302:ALA:HB2	1:I:384:ARG:HG3	1.78	0.65
1:B:104:SER:HB2	1:B:177:MET:CE	2.27	0.65
1:D:109:GLN:HE22	1:M:490:GLU:HG3	1.61	0.65
1:G:490:GLU:HG3	1:H:109:GLN:HE22	1.61	0.65
1:K:175:ASP:HB2	1:K:188:PHE:CE2	2.32	0.65
1:N:109:GLN:HE22	1:O:490:GLU:HG3	1.61	0.65
1:N:249:GLU:HG3	1:N:536:LYS:HD3	1.77	0.65
1:R:175:ASP:HB2	1:R:188:PHE:CE2	2.32	0.65
1:U:104:SER:HB2	1:U:177:MET:CE	2.27	0.65
1:V:175:ASP:HB2	1:V:188:PHE:CE2	2.32	0.65
1:V:249:GLU:HG3	1:V:536:LYS:HD3	1.77	0.65
1:X:104:SER:HB2	1:X:177:MET:CE	2.27	0.65
1:i:249:GLU:HG3	1:i:536:LYS:HD3	1.77	0.65
1:i:302:ALA:HB2	1:k:384:ARG:HG3	1.77	0.65
1:j:104:SER:HB2	1:j:177:MET:CE	2.27	0.65
1:l:104:SER:HB2	1:l:177:MET:CE	2.27	0.65
1:p:175:ASP:HB2	1:p:188:PHE:CE2	2.32	0.65
1:q:175:ASP:HB2	1:q:188:PHE:CE2	2.32	0.65
1:u:109:GLN:HE22	1:1:490:GLU:HG3	1.61	0.65
1:u:249:GLU:HG3	1:u:536:LYS:HD3	1.77	0.65
1:z:302:ALA:HB2	1:2:384:ARG:HG3	1.77	0.65
1:1:104:SER:HB2	1:1:177:MET:CE	2.27	0.65
1:2:109:GLN:HE22	1:4:490:GLU:HG3	1.61	0.65
1:F:249:GLU:HG3	1:F:536:LYS:HD3	1.77	0.65
1:N:175:ASP:HB2	1:N:188:PHE:CE2	2.32	0.65
1:S:104:SER:HB2	1:S:177:MET:CE	2.27	0.65
1:S:175:ASP:HB2	1:S:188:PHE:CE2	2.32	0.65
1:i:109:GLN:HE22	1:l:490:GLU:HG3	1.61	0.65
1:i:175:ASP:HB2	1:i:188:PHE:CE2	2.32	0.65
1:o:104:SER:HB2	1:o:177:MET:CE	2.27	0.65
1:r:104:SER:HB2	1:r:177:MET:CE	2.27	0.65
1:s:104:SER:HB2	1:s:177:MET:CE	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:249:GLU:HG3	1:1:536:LYS:HD3	1.77	0.65
1:2:182:TYR:O	1:3:450:LYS:NZ	2.27	0.65
1:4:175:ASP:HB2	1:4:188:PHE:CE2	2.32	0.65
1:8:249:GLU:HG3	1:8:536:LYS:HD3	1.77	0.65
1:D:450:LYS:NZ	1:E:182:TYR:O	2.26	0.65
1:I:175:ASP:HB2	1:I:188:PHE:CE2	2.32	0.65
1:I:249:GLU:HG3	1:I:536:LYS:HD3	1.77	0.65
1:J:104:SER:HB2	1:J:177:MET:CE	2.27	0.65
1:N:384:ARG:HG3	1:P:302:ALA:HB2	1.77	0.65
1:O:384:ARG:HG3	1:m:302:ALA:HB2	1.77	0.65
1:R:249:GLU:HG3	1:R:536:LYS:HD3	1.77	0.65
1:U:490:GLU:HG3	1:V:109:GLN:HE22	1.60	0.65
1:V:104:SER:HB2	1:V:177:MET:CE	2.27	0.65
1:V:384:ARG:HG3	1:e:302:ALA:HB2	1.77	0.65
1:Y:182:TYR:O	1:4:450:LYS:NZ	2.26	0.65
1:Z:249:GLU:HG3	1:Z:536:LYS:HD3	1.77	0.65
1:c:302:ALA:HB2	1:p:384:ARG:HG3	1.77	0.65
1:f:104:SER:HB2	1:f:177:MET:CE	2.27	0.65
1:h:490:GLU:HG3	1:k:109:GLN:HE22	1.61	0.65
1:i:384:ARG:HG3	1:j:302:ALA:HB2	1.77	0.65
1:m:109:GLN:HE22	1:r:490:GLU:HG3	1.61	0.65
1:q:109:GLN:HE22	1:x:490:GLU:HG3	1.61	0.65
1:q:249:GLU:HG3	1:q:536:LYS:HD3	1.77	0.65
1:r:175:ASP:HB2	1:r:188:PHE:CE2	2.32	0.65
1:u:175:ASP:HB2	1:u:188:PHE:CE2	2.32	0.65
1:u:490:GLU:HG3	1:1:109:GLN:HE22	1.61	0.65
1:x:104:SER:HB2	1:x:177:MET:CE	2.27	0.65
1:E:490:GLU:HG3	1:P:109:GLN:HE22	1.61	0.65
1:F:175:ASP:HB2	1:F:188:PHE:CE2	2.32	0.65
1:H:302:ALA:O	1:H:351:TYR:OH	2.08	0.65
1:J:302:ALA:O	1:J:351:TYR:OH	2.08	0.65
1:M:182:TYR:O	1:N:450:LYS:NZ	2.26	0.65
1:W:104:SER:HB2	1:W:177:MET:CE	2.27	0.65
1:p:104:SER:HB2	1:p:177:MET:CE	2.27	0.65
1:v:249:GLU:HG3	1:v:536:LYS:HD3	1.77	0.65
1:y:249:GLU:HG3	1:y:536:LYS:HD3	1.77	0.65
1:A:249:GLU:HG3	1:A:536:LYS:HD3	1.77	0.64
1:B:302:ALA:HB2	1:L:384:ARG:HG3	1.77	0.64
1:Q:104:SER:HB2	1:Q:177:MET:CE	2.27	0.64
1:Q:490:GLU:HG3	1:R:109:GLN:HE22	1.61	0.64
1:R:420:PRO:HG2	1:U:403:ILE:HD13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:302:ALA:HB2	1:l:384:ARG:HG3	1.77	0.64
1:d:104:SER:HB2	1:d:177:MET:CE	2.27	0.64
1:j:109:GLN:HE22	1:w:490:GLU:HG3	1.61	0.64
1:m:490:GLU:HG3	1:r:109:GLN:HE22	1.61	0.64
1:p:109:GLN:HE22	1:s:490:GLU:HG3	1.60	0.64
1:q:420:PRO:HG2	1:s:403:ILE:HD13	1.79	0.64
1:y:175:ASP:HB2	1:y:188:PHE:CE2	2.32	0.64
1:2:104:SER:HB2	1:2:177:MET:CE	2.27	0.64
1:2:175:ASP:HB2	1:2:188:PHE:CE2	2.32	0.64
1:6:104:SER:HB2	1:6:177:MET:CE	2.27	0.64
1:8:175:ASP:HB2	1:8:188:PHE:CE2	2.32	0.64
1:F:450:LYS:NZ	1:R:182:TYR:O	2.27	0.64
1:J:175:ASP:HB2	1:J:188:PHE:CE2	2.32	0.64
1:O:175:ASP:HB2	1:O:188:PHE:CE2	2.32	0.64
1:S:109:GLN:HE22	1:T:490:GLU:HG3	1.61	0.64
1:S:403:ILE:HD13	1:U:420:PRO:HG2	1.79	0.64
1:S:490:GLU:HG3	1:T:109:GLN:HE22	1.61	0.64
1:Z:175:ASP:HB2	1:Z:188:PHE:CE2	2.32	0.64
1:e:175:ASP:HB2	1:e:188:PHE:CE2	2.32	0.64
1:n:104:SER:HB2	1:n:177:MET:CE	2.27	0.64
1:n:175:ASP:HB2	1:n:188:PHE:CE2	2.32	0.64
1:r:403:ILE:HD13	1:s:420:PRO:HG2	1.79	0.64
1:H:175:ASP:HB2	1:H:188:PHE:CE2	2.32	0.64
1:Y:104:SER:HB2	1:Y:177:MET:CE	2.27	0.64
1:a:490:GLU:HG3	1:3:109:GLN:HE22	1.61	0.64
1:c:175:ASP:HB2	1:c:188:PHE:CE2	2.32	0.64
1:f:302:ALA:HB2	1:g:384:ARG:HG3	1.77	0.64
1:h:182:TYR:O	1:i:450:LYS:NZ	2.26	0.64
1:7:175:ASP:HB2	1:7:188:PHE:CE2	2.32	0.64
1:C:403:ILE:HD13	1:b:420:PRO:HG2	1.80	0.64
1:G:109:GLN:HE22	1:H:490:GLU:HG3	1.61	0.64
1:J:182:TYR:O	1:a:450:LYS:NZ	2.27	0.64
1:J:403:ILE:HD13	1:L:420:PRO:HG2	1.78	0.64
1:K:420:PRO:HG2	1:8:403:ILE:HD13	1.80	0.64
1:N:403:ILE:HD13	1:P:420:PRO:HG2	1.80	0.64
1:X:420:PRO:HG2	1:e:403:ILE:HD13	1.80	0.64
1:Y:175:ASP:HB2	1:Y:188:PHE:CE2	2.32	0.64
1:Z:403:ILE:HD13	1:4:420:PRO:HG2	1.80	0.64
1:c:403:ILE:HD13	1:o:420:PRO:HG2	1.80	0.64
1:d:175:ASP:HB2	1:d:188:PHE:CE2	2.32	0.64
1:f:420:PRO:HG2	1:g:403:ILE:HD13	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:175:ASP:HB2	1:l:188:PHE:CE2	2.32	0.64
1:7:104:SER:HB2	1:7:177:MET:CE	2.27	0.64
1:C:384:ARG:HG3	1:b:302:ALA:HB2	1.77	0.64
1:D:175:ASP:HB2	1:D:188:PHE:CE2	2.32	0.64
1:F:302:ALA:HB2	1:Q:384:ARG:HG3	1.78	0.64
1:I:435:LEU:HB3	1:I:437:MET:HE3	1.80	0.64
1:W:302:ALA:O	1:W:351:TYR:OH	2.08	0.64
1:c:435:LEU:HB3	1:c:437:MET:HE3	1.80	0.64
1:i:403:ILE:HD13	1:j:420:PRO:HG2	1.80	0.64
1:k:104:SER:HB2	1:k:177:MET:CE	2.27	0.64
1:s:175:ASP:HB2	1:s:188:PHE:CE2	2.32	0.64
1:t:109:GLN:HE22	1:5:490:GLU:HG3	1.61	0.64
1:t:435:LEU:HB3	1:t:437:MET:HE3	1.80	0.64
1:u:435:LEU:HB3	1:u:437:MET:HE3	1.80	0.64
1:1:403:ILE:HD13	1:2:420:PRO:HG2	1.80	0.64
1:2:435:LEU:HB3	1:2:437:MET:HE3	1.80	0.64
1:5:175:ASP:HB2	1:5:188:PHE:CE2	2.32	0.64
1:6:403:ILE:HD13	1:7:420:PRO:HG2	1.80	0.64
1:A:435:LEU:HB3	1:A:437:MET:HE3	1.80	0.64
1:G:435:LEU:HB3	1:G:437:MET:HE3	1.80	0.64
1:J:435:LEU:HB3	1:J:437:MET:HE3	1.80	0.64
1:N:435:LEU:HB3	1:N:437:MET:HE3	1.80	0.64
1:S:435:LEU:HB3	1:S:437:MET:HE3	1.80	0.64
1:U:175:ASP:HB2	1:U:188:PHE:CE2	2.32	0.64
1:V:403:ILE:HD13	1:e:420:PRO:HG2	1.80	0.64
1:W:403:ILE:HD13	1:Y:420:PRO:HG2	1.80	0.64
1:a:104:SER:HB2	1:a:177:MET:CE	2.27	0.64
1:a:109:GLN:HE22	1:3:490:GLU:HG3	1.61	0.64
1:c:420:PRO:HG2	1:p:403:ILE:HD13	1.80	0.64
1:e:435:LEU:HB3	1:e:437:MET:HE3	1.80	0.64
1:f:175:ASP:HB2	1:f:188:PHE:CE2	2.32	0.64
1:j:490:GLU:HG3	1:w:109:GLN:HE22	1.61	0.64
1:m:104:SER:HB2	1:m:177:MET:CE	2.27	0.64
1:q:182:TYR:O	1:y:450:LYS:NZ	2.27	0.64
1:v:435:LEU:HB3	1:v:437:MET:HE3	1.80	0.64
1:x:384:ARG:HG3	1:y:302:ALA:HB2	1.78	0.64
1:3:175:ASP:HB2	1:3:188:PHE:CE2	2.32	0.64
1:6:175:ASP:HB2	1:6:188:PHE:CE2	2.32	0.64
1:A:175:ASP:HB2	1:A:188:PHE:CE2	2.32	0.64
1:D:104:SER:HB2	1:D:177:MET:CE	2.27	0.64
1:E:109:GLN:HE22	1:P:490:GLU:HG3	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:403:ILE:HD13	1:W:420:PRO:HG2	1.80	0.64
1:L:435:LEU:HB3	1:L:437:MET:HE3	1.80	0.64
1:W:175:ASP:HB2	1:W:188:PHE:CE2	2.32	0.64
1:X:175:ASP:HB2	1:X:188:PHE:CE2	2.32	0.64
1:Y:109:GLN:HE22	1:Z:490:GLU:HG3	1.61	0.64
1:d:490:GLU:HG3	1:n:109:GLN:HE22	1.61	0.64
1:g:420:PRO:HG2	1:h:403:ILE:HD13	1.80	0.64
1:i:435:LEU:HB3	1:i:437:MET:HE3	1.80	0.64
1:k:175:ASP:HB2	1:k:188:PHE:CE2	2.32	0.64
1:r:435:LEU:HB3	1:r:437:MET:HE3	1.80	0.64
1:x:175:ASP:HB2	1:x:188:PHE:CE2	2.32	0.64
1:z:435:LEU:HB3	1:z:437:MET:HE3	1.80	0.64
1:C:420:PRO:HG2	1:M:403:ILE:HD13	1.80	0.64
1:Q:175:ASP:HB2	1:Q:188:PHE:CE2	2.32	0.64
1:T:104:SER:HB2	1:T:177:MET:CE	2.27	0.64
1:Z:435:LEU:HB3	1:Z:437:MET:HE3	1.80	0.64
1:a:175:ASP:HB2	1:a:188:PHE:CE2	2.32	0.64
1:b:175:ASP:HB2	1:b:188:PHE:CE2	2.32	0.64
1:d:109:GLN:HE22	1:n:490:GLU:HG3	1.61	0.64
1:j:435:LEU:HB3	1:j:437:MET:HE3	1.80	0.64
1:v:175:ASP:HB2	1:v:188:PHE:CE2	2.32	0.64
1:w:175:ASP:HB2	1:w:188:PHE:CE2	2.32	0.64
1:3:104:SER:HB2	1:3:177:MET:CE	2.27	0.64
1:5:403:ILE:HD13	1:6:420:PRO:HG2	1.80	0.64
1:7:109:GLN:HE22	1:8:490:GLU:HG3	1.61	0.64
1:G:175:ASP:HB2	1:G:188:PHE:CE2	2.32	0.64
1:P:175:ASP:HB2	1:P:188:PHE:CE2	2.32	0.64
1:P:435:LEU:HB3	1:P:437:MET:HE3	1.80	0.64
1:U:435:LEU:HB3	1:U:437:MET:HE3	1.80	0.64
1:X:182:TYR:O	1:Y:450:LYS:NZ	2.26	0.64
1:h:175:ASP:HB2	1:h:188:PHE:CE2	2.32	0.64
1:s:435:LEU:HB3	1:s:437:MET:HE3	1.80	0.64
1:t:175:ASP:HB2	1:t:188:PHE:CE2	2.32	0.64
1:8:435:LEU:HB3	1:8:437:MET:HE3	1.80	0.64
1:E:175:ASP:HB2	1:E:188:PHE:CE2	2.32	0.64
1:F:420:PRO:HG2	1:Q:403:ILE:HD13	1.80	0.64
1:d:435:LEU:HB3	1:d:437:MET:HE3	1.80	0.64
1:g:175:ASP:HB2	1:g:188:PHE:CE2	2.32	0.64
1:g:435:LEU:HB3	1:g:437:MET:HE3	1.80	0.64
1:n:435:LEU:HB3	1:n:437:MET:HE3	1.80	0.64
1:o:182:TYR:O	1:7:450:LYS:NZ	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:435:LEU:HB3	1:o:437:MET:HE3	1.80	0.64
1:x:403:ILE:HD13	1:y:420:PRO:HG2	1.80	0.64
1:4:435:LEU:HB3	1:4:437:MET:HE3	1.80	0.64
1:C:435:LEU:HB3	1:C:437:MET:HE3	1.80	0.63
1:E:420:PRO:HG2	1:F:403:ILE:HD13	1.80	0.63
1:K:435:LEU:HB3	1:K:437:MET:HE3	1.80	0.63
1:M:175:ASP:HB2	1:M:188:PHE:CE2	2.32	0.63
1:M:420:PRO:HG2	1:b:403:ILE:HD13	1.80	0.63
1:R:435:LEU:HB3	1:R:437:MET:HE3	1.80	0.63
1:U:109:GLN:HE22	1:V:490:GLU:HG3	1.61	0.63
1:W:435:LEU:HB3	1:W:437:MET:HE3	1.80	0.63
1:X:435:LEU:HB3	1:X:437:MET:HE3	1.80	0.63
1:a:403:ILE:HD13	1:8:420:PRO:HG2	1.80	0.63
1:j:175:ASP:HB2	1:j:188:PHE:CE2	2.32	0.63
1:p:490:GLU:HG3	1:s:109:GLN:HE22	1.61	0.63
1:w:420:PRO:HG2	1:y:403:ILE:HD13	1.80	0.63
1:1:175:ASP:HB2	1:1:188:PHE:CE2	2.32	0.63
1:2:357:GLN:HE21	1:2:368:ILE:HD12	1.64	0.63
1:6:435:LEU:HB3	1:6:437:MET:HE3	1.80	0.63
1:B:175:ASP:HB2	1:B:188:PHE:CE2	2.32	0.63
1:C:175:ASP:HB2	1:C:188:PHE:CE2	2.32	0.63
1:T:357:GLN:HE21	1:T:368:ILE:HD12	1.64	0.63
1:d:357:GLN:HE21	1:d:368:ILE:HD12	1.64	0.63
1:f:435:LEU:HB3	1:f:437:MET:HE3	1.80	0.63
1:g:357:GLN:HE21	1:g:368:ILE:HD12	1.64	0.63
1:k:435:LEU:HB3	1:k:437:MET:HE3	1.80	0.63
1:m:357:GLN:HE21	1:m:368:ILE:HD12	1.64	0.63
1:n:357:GLN:HE21	1:n:368:ILE:HD12	1.64	0.63
1:q:435:LEU:HB3	1:q:437:MET:HE3	1.80	0.63
1:z:403:ILE:HD13	1:1:420:PRO:HG2	1.79	0.63
1:D:435:LEU:HB3	1:D:437:MET:HE3	1.80	0.63
1:H:420:PRO:HG2	1:Y:403:ILE:HD13	1.80	0.63
1:J:357:GLN:HE21	1:J:368:ILE:HD12	1.64	0.63
1:L:175:ASP:HB2	1:L:188:PHE:CE2	2.32	0.63
1:N:357:GLN:HE21	1:N:368:ILE:HD12	1.64	0.63
1:P:357:GLN:HE21	1:P:368:ILE:HD12	1.64	0.63
1:Y:357:GLN:HE21	1:Y:368:ILE:HD12	1.64	0.63
1:Z:420:PRO:HG2	1:3:403:ILE:HD13	1.80	0.63
1:b:435:LEU:HB3	1:b:437:MET:HE3	1.80	0.63
1:f:403:ILE:HD13	1:h:420:PRO:HG2	1.80	0.63
1:i:357:GLN:HE21	1:i:368:ILE:HD12	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:357:GLN:HE21	1:j:368:ILE:HD12	1.64	0.63
1:o:175:ASP:HB2	1:o:188:PHE:CE2	2.32	0.63
1:5:420:PRO:HG2	1:7:403:ILE:HD13	1.80	0.63
1:C:357:GLN:HE21	1:C:368:ILE:HD12	1.64	0.63
1:T:435:LEU:HB3	1:T:437:MET:HE3	1.80	0.63
1:V:420:PRO:HG2	1:X:403:ILE:HD13	1.80	0.63
1:Y:435:LEU:HB3	1:Y:437:MET:HE3	1.80	0.63
1:m:435:LEU:HB3	1:m:437:MET:HE3	1.80	0.63
1:o:357:GLN:HE21	1:o:368:ILE:HD12	1.64	0.63
1:o:403:ILE:HD13	1:p:420:PRO:HG2	1.80	0.63
1:7:357:GLN:HE21	1:7:368:ILE:HD12	1.64	0.63
1:7:435:LEU:HB3	1:7:437:MET:HE3	1.80	0.63
1:B:357:GLN:HE21	1:B:368:ILE:HD12	1.64	0.63
1:F:435:LEU:HB3	1:F:437:MET:HE3	1.80	0.63
1:L:357:GLN:HE21	1:L:368:ILE:HD12	1.64	0.63
1:Q:357:GLN:HE21	1:Q:368:ILE:HD12	1.64	0.63
1:X:357:GLN:HE21	1:X:368:ILE:HD12	1.64	0.63
1:v:357:GLN:HE21	1:v:368:ILE:HD12	1.64	0.63
1:y:435:LEU:HB3	1:y:437:MET:HE3	1.80	0.63
1:z:175:ASP:HB2	1:z:188:PHE:CE2	2.32	0.63
1:z:357:GLN:HE21	1:z:368:ILE:HD12	1.64	0.63
1:z:420:PRO:HG2	1:2:403:ILE:HD13	1.79	0.63
1:Q:435:LEU:HB3	1:Q:437:MET:HE3	1.80	0.63
1:x:357:GLN:HE21	1:x:368:ILE:HD12	1.64	0.63
1:x:435:LEU:HB3	1:x:437:MET:HE3	1.80	0.63
1:1:357:GLN:HE21	1:1:368:ILE:HD12	1.64	0.63
1:A:357:GLN:HE21	1:A:368:ILE:HD12	1.64	0.63
1:B:420:PRO:HG2	1:L:403:ILE:HD13	1.80	0.63
1:E:403:ILE:HD13	1:Q:420:PRO:HG2	1.80	0.63
1:E:435:LEU:HB3	1:E:437:MET:HE3	1.80	0.63
1:w:403:ILE:HD13	1:x:420:PRO:HG2	1.80	0.63
1:8:357:GLN:HE21	1:8:368:ILE:HD12	1.64	0.63
1:I:357:GLN:HE21	1:I:368:ILE:HD12	1.64	0.63
1:R:403:ILE:HD13	1:S:420:PRO:HG2	1.80	0.63
1:Z:357:GLN:HE21	1:Z:368:ILE:HD12	1.64	0.63
1:4:357:GLN:HE21	1:4:368:ILE:HD12	1.64	0.63
1:5:357:GLN:HE21	1:5:368:ILE:HD12	1.64	0.63
1:q:403:ILE:HD13	1:r:420:PRO:HG2	1.80	0.63
1:u:357:GLN:HE21	1:u:368:ILE:HD12	1.64	0.63
1:w:435:LEU:HB3	1:w:437:MET:HE3	1.80	0.63
1:3:357:GLN:HE21	1:3:368:ILE:HD12	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:357:GLN:HE21	1:H:368:ILE:HD12	1.64	0.62
1:i:420:PRO:HG2	1:k:403:ILE:HD13	1.80	0.62
1:D:403:ILE:HD13	1:N:420:PRO:HG2	1.80	0.62
1:K:357:GLN:HE21	1:K:368:ILE:HD12	1.64	0.62
1:k:357:GLN:HE21	1:k:368:ILE:HD12	1.64	0.62
1:s:357:GLN:HE21	1:s:368:ILE:HD12	1.64	0.62
1:3:420:PRO:HG2	1:4:403:ILE:HD13	1.80	0.62
1:A:182:TYR:O	1:E:450:LYS:NZ	2.26	0.62
1:A:420:PRO:HG2	1:I:403:ILE:HD13	1.80	0.62
1:D:420:PRO:HG2	1:P:403:ILE:HD13	1.80	0.62
1:O:435:LEU:HB3	1:O:437:MET:HE3	1.80	0.62
1:U:357:GLN:HE21	1:U:368:ILE:HD12	1.64	0.62
1:a:357:GLN:HE21	1:a:368:ILE:HD12	1.64	0.62
1:l:435:LEU:HB3	1:l:437:MET:HE3	1.80	0.62
1:m:403:ILE:HD13	1:n:420:PRO:HG2	1.80	0.62
1:u:403:ILE:HD13	1:v:420:PRO:HG2	1.80	0.62
1:1:435:LEU:HB3	1:1:437:MET:HE3	1.80	0.62
1:B:435:LEU:HB3	1:B:437:MET:HE3	1.80	0.62
1:D:357:GLN:HE21	1:D:368:ILE:HD12	1.64	0.62
1:O:403:ILE:HD13	1:m:420:PRO:HG2	1.80	0.62
1:S:357:GLN:HE21	1:S:368:ILE:HD12	1.64	0.62
1:T:403:ILE:HD13	1:d:420:PRO:HG2	1.80	0.62
1:T:420:PRO:HG2	1:l:403:ILE:HD13	1.80	0.62
1:a:435:LEU:HB3	1:a:437:MET:HE3	1.80	0.62
1:v:182:TYR:O	1:w:450:LYS:NZ	2.27	0.62
1:3:435:LEU:HB3	1:3:437:MET:HE3	1.80	0.62
1:H:435:LEU:HB3	1:H:437:MET:HE3	1.80	0.62
1:O:420:PRO:HG2	1:n:403:ILE:HD13	1.80	0.62
1:d:403:ILE:HD13	1:l:420:PRO:HG2	1.80	0.62
1:l:357:GLN:HE21	1:l:368:ILE:HD12	1.64	0.62
1:r:357:GLN:HE21	1:r:368:ILE:HD12	1.64	0.62
1:K:403:ILE:HD13	1:a:420:PRO:HG2	1.80	0.62
1:O:357:GLN:HE21	1:O:368:ILE:HD12	1.64	0.62
1:b:87:GLN:HE21	1:b:193:ILE:HD13	1.65	0.62
1:f:87:GLN:HE21	1:f:193:ILE:HD13	1.65	0.62
1:h:357:GLN:HE21	1:h:368:ILE:HD12	1.64	0.62
1:j:403:ILE:HD13	1:k:420:PRO:HG2	1.80	0.62
1:p:435:LEU:HB3	1:p:437:MET:HE3	1.80	0.62
1:5:435:LEU:HB3	1:5:437:MET:HE3	1.80	0.62
1:C:87:GLN:HE21	1:C:193:ILE:HD13	1.65	0.62
1:M:357:GLN:HE21	1:M:368:ILE:HD12	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:435:LEU:HB3	1:V:437:MET:HE3	1.80	0.62
1:d:194:PRO:HG2	1:d:195:VAL:HG23	1.82	0.62
1:f:357:GLN:HE21	1:f:368:ILE:HD12	1.64	0.62
1:n:194:PRO:HG2	1:n:195:VAL:HG23	1.82	0.62
1:p:194:PRO:HG2	1:p:195:VAL:HG23	1.82	0.62
1:y:87:GLN:HE21	1:y:193:ILE:HD13	1.65	0.62
1:A:403:ILE:HD13	1:G:420:PRO:HG2	1.80	0.62
1:F:87:GLN:HE21	1:F:193:ILE:HD13	1.65	0.62
1:F:357:GLN:HE21	1:F:368:ILE:HD12	1.64	0.62
1:V:194:PRO:HG2	1:V:195:VAL:HG23	1.82	0.62
1:Y:87:GLN:HE21	1:Y:193:ILE:HD13	1.65	0.62
1:b:357:GLN:HE21	1:b:368:ILE:HD12	1.64	0.62
1:g:87:GLN:HE21	1:g:193:ILE:HD13	1.65	0.62
1:t:357:GLN:HE21	1:t:368:ILE:HD12	1.64	0.62
1:7:87:GLN:HE21	1:7:193:ILE:HD13	1.65	0.62
1:A:87:GLN:HE21	1:A:193:ILE:HD13	1.65	0.62
1:M:435:LEU:HB3	1:M:437:MET:HE3	1.80	0.62
1:U:87:GLN:HE21	1:U:193:ILE:HD13	1.65	0.62
1:c:357:GLN:HE21	1:c:368:ILE:HD12	1.64	0.62
1:i:87:GLN:HE21	1:i:193:ILE:HD13	1.65	0.62
1:s:87:GLN:HE21	1:s:193:ILE:HD13	1.65	0.62
1:t:403:ILE:HD13	1:u:420:PRO:HG2	1.80	0.62
1:t:420:PRO:HG2	1:v:403:ILE:HD13	1.80	0.62
1:D:87:GLN:HE21	1:D:193:ILE:HD13	1.65	0.62
1:G:357:GLN:HE21	1:G:368:ILE:HD12	1.64	0.62
1:G:403:ILE:HD13	1:I:420:PRO:HG2	1.80	0.62
1:K:87:GLN:HE21	1:K:193:ILE:HD13	1.65	0.62
1:N:87:GLN:HE21	1:N:193:ILE:HD13	1.65	0.62
1:T:87:GLN:HE21	1:T:193:ILE:HD13	1.65	0.62
1:V:357:GLN:HE21	1:V:368:ILE:HD12	1.64	0.62
1:b:194:PRO:HG2	1:b:195:VAL:HG23	1.82	0.62
1:e:357:GLN:HE21	1:e:368:ILE:HD12	1.64	0.62
1:f:194:PRO:HG2	1:f:195:VAL:HG23	1.82	0.62
1:h:435:LEU:HB3	1:h:437:MET:HE3	1.80	0.62
1:v:87:GLN:HE21	1:v:193:ILE:HD13	1.65	0.62
1:y:357:GLN:HE21	1:y:368:ILE:HD12	1.64	0.62
1:G:87:GLN:HE21	1:G:193:ILE:HD13	1.65	0.61
1:e:175:ASP:CB	1:e:188:PHE:CZ	2.83	0.61
1:m:87:GLN:HE21	1:m:193:ILE:HD13	1.65	0.61
1:t:87:GLN:HE21	1:t:193:ILE:HD13	1.65	0.61
1:B:261:PRO:HB2	1:J:77:ILE:HG13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:175:ASP:CB	1:R:188:PHE:CZ	2.83	0.61
1:g:194:PRO:HG2	1:g:195:VAL:HG23	1.82	0.61
1:k:87:GLN:HE21	1:k:193:ILE:HD13	1.65	0.61
1:w:308:ALA:HB1	1:y:282:THR:HG21	1.82	0.61
1:4:87:GLN:HE21	1:4:193:ILE:HD13	1.65	0.61
1:C:194:PRO:HG2	1:C:195:VAL:HG23	1.82	0.61
1:E:308:ALA:HB1	1:F:282:THR:HG21	1.83	0.61
1:H:87:GLN:HE21	1:H:193:ILE:HD13	1.65	0.61
1:O:87:GLN:HE21	1:O:193:ILE:HD13	1.65	0.61
1:Q:194:PRO:HG2	1:Q:195:VAL:HG23	1.82	0.61
1:V:87:GLN:HE21	1:V:193:ILE:HD13	1.65	0.61
1:W:357:GLN:HE21	1:W:368:ILE:HD12	1.64	0.61
1:X:87:GLN:HE21	1:X:193:ILE:HD13	1.65	0.61
1:Z:87:GLN:HE21	1:Z:193:ILE:HD13	1.65	0.61
1:l:87:GLN:HE21	1:l:193:ILE:HD13	1.65	0.61
1:o:87:GLN:HE21	1:o:193:ILE:HD13	1.65	0.61
1:p:87:GLN:HE21	1:p:193:ILE:HD13	1.65	0.61
1:p:357:GLN:HE21	1:p:368:ILE:HD12	1.64	0.61
1:q:175:ASP:CB	1:q:188:PHE:CZ	2.83	0.61
1:u:175:ASP:CB	1:u:188:PHE:CZ	2.83	0.61
1:x:194:PRO:HG2	1:x:195:VAL:HG23	1.82	0.61
1:5:87:GLN:HE21	1:5:193:ILE:HD13	1.65	0.61
1:I:175:ASP:CB	1:I:188:PHE:CZ	2.83	0.61
1:a:194:PRO:HG2	1:a:195:VAL:HG23	1.82	0.61
1:3:194:PRO:HG2	1:3:195:VAL:HG23	1.82	0.61
1:H:194:PRO:HG2	1:H:195:VAL:HG23	1.82	0.61
1:R:357:GLN:HE21	1:R:368:ILE:HD12	1.64	0.61
1:q:194:PRO:HG2	1:q:195:VAL:HG23	1.82	0.61
1:u:282:THR:HG21	1:v:308:ALA:HB1	1.83	0.61
1:6:357:GLN:HE21	1:6:368:ILE:HD12	1.64	0.61
1:8:87:GLN:HE21	1:8:193:ILE:HD13	1.65	0.61
1:A:308:ALA:HB1	1:I:282:THR:HG21	1.83	0.61
1:R:194:PRO:HG2	1:R:195:VAL:HG23	1.82	0.61
1:c:87:GLN:HE21	1:c:193:ILE:HD13	1.65	0.61
1:e:87:GLN:HE21	1:e:193:ILE:HD13	1.65	0.61
1:q:357:GLN:HE21	1:q:368:ILE:HD12	1.64	0.61
1:t:308:ALA:HB1	1:v:282:THR:HG21	1.82	0.61
1:5:194:PRO:HG2	1:5:195:VAL:HG23	1.82	0.61
1:A:282:THR:HG21	1:G:308:ALA:HB1	1.82	0.61
1:J:87:GLN:HE21	1:J:193:ILE:HD13	1.65	0.61
1:P:87:GLN:HE21	1:P:193:ILE:HD13	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:175:ASP:CB	1:a:188:PHE:CZ	2.83	0.61
1:t:175:ASP:CB	1:t:188:PHE:CZ	2.83	0.61
1:w:357:GLN:HE21	1:w:368:ILE:HD12	1.64	0.61
1:F:308:ALA:HB1	1:Q:282:THR:HG21	1.83	0.61
1:G:175:ASP:CB	1:G:188:PHE:CZ	2.83	0.61
1:I:87:GLN:HE21	1:I:193:ILE:HD13	1.65	0.61
1:P:194:PRO:HG2	1:P:195:VAL:HG23	1.82	0.61
1:S:282:THR:HG21	1:U:308:ALA:HB1	1.83	0.61
1:j:87:GLN:HE21	1:j:193:ILE:HD13	1.65	0.61
1:u:87:GLN:HE21	1:u:193:ILE:HD13	1.65	0.61
1:x:282:THR:HG21	1:y:308:ALA:HB1	1.83	0.61
1:z:87:GLN:HE21	1:z:193:ILE:HD13	1.65	0.61
1:3:175:ASP:CB	1:3:188:PHE:CZ	2.83	0.61
1:8:194:PRO:HG2	1:8:195:VAL:HG23	1.82	0.61
1:B:87:GLN:HE21	1:B:193:ILE:HD13	1.65	0.61
1:E:357:GLN:HE21	1:E:368:ILE:HD12	1.64	0.61
1:M:194:PRO:HG2	1:M:195:VAL:HG23	1.82	0.61
1:Z:194:PRO:HG2	1:Z:195:VAL:HG23	1.82	0.61
1:f:282:THR:HG21	1:h:308:ALA:HB1	1.83	0.61
1:h:194:PRO:HG2	1:h:195:VAL:HG23	1.82	0.61
1:j:194:PRO:HG2	1:j:195:VAL:HG23	1.82	0.61
1:q:87:GLN:HE21	1:q:193:ILE:HD13	1.65	0.61
1:r:282:THR:HG21	1:s:308:ALA:HB1	1.83	0.61
1:z:308:ALA:HB1	1:2:282:THR:HG21	1.83	0.61
1:2:87:GLN:HE21	1:2:193:ILE:HD13	1.65	0.61
1:E:87:GLN:HE21	1:E:193:ILE:HD13	1.65	0.61
1:N:282:THR:HG21	1:P:308:ALA:HB1	1.83	0.61
1:W:87:GLN:HE21	1:W:193:ILE:HD13	1.65	0.61
1:W:175:ASP:CB	1:W:188:PHE:CZ	2.83	0.61
1:X:175:ASP:CB	1:X:188:PHE:CZ	2.83	0.61
1:a:87:GLN:HE21	1:a:193:ILE:HD13	1.65	0.61
1:i:282:THR:HG21	1:j:308:ALA:HB1	1.83	0.61
1:s:194:PRO:HG2	1:s:195:VAL:HG23	1.82	0.61
1:3:87:GLN:HE21	1:3:193:ILE:HD13	1.65	0.61
1:A:194:PRO:HG2	1:A:195:VAL:HG23	1.82	0.60
1:D:175:ASP:CB	1:D:188:PHE:CZ	2.83	0.60
1:L:87:GLN:HE21	1:L:193:ILE:HD13	1.65	0.60
1:M:308:ALA:HB1	1:b:282:THR:HG21	1.83	0.60
1:Q:87:GLN:HE21	1:Q:193:ILE:HD13	1.65	0.60
1:R:87:GLN:HE21	1:R:193:ILE:HD13	1.65	0.60
1:U:194:PRO:HG2	1:U:195:VAL:HG23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:175:ASP:CB	1:V:188:PHE:CZ	2.83	0.60
1:X:77:ILE:HG13	1:e:261:PRO:HB2	1.83	0.60
1:X:194:PRO:HG2	1:X:195:VAL:HG23	1.82	0.60
1:k:175:ASP:CB	1:k:188:PHE:CZ	2.83	0.60
1:o:175:ASP:CB	1:o:188:PHE:CZ	2.83	0.60
1:p:175:ASP:CB	1:p:188:PHE:CZ	2.83	0.60
1:v:194:PRO:HG2	1:v:195:VAL:HG23	1.82	0.60
1:w:87:GLN:HE21	1:w:193:ILE:HD13	1.65	0.60
1:1:282:THR:HG21	1:2:308:ALA:HB1	1.83	0.60
1:6:175:ASP:CB	1:6:188:PHE:CZ	2.83	0.60
1:A:261:PRO:HB2	1:G:77:ILE:HG13	1.83	0.60
1:F:175:ASP:CB	1:F:188:PHE:CZ	2.83	0.60
1:O:194:PRO:HG2	1:O:195:VAL:HG23	1.82	0.60
1:S:194:PRO:HG2	1:S:195:VAL:HG23	1.82	0.60
1:c:261:PRO:HB2	1:o:77:ILE:HG13	1.83	0.60
1:i:77:ILE:HG13	1:k:261:PRO:HB2	1.83	0.60
1:i:175:ASP:CB	1:i:188:PHE:CZ	2.83	0.60
1:q:261:PRO:HB2	1:r:77:ILE:HG13	1.83	0.60
1:x:87:GLN:HE21	1:x:193:ILE:HD13	1.65	0.60
1:y:175:ASP:CB	1:y:188:PHE:CZ	2.83	0.60
1:1:87:GLN:HE21	1:1:193:ILE:HD13	1.65	0.60
1:1:261:PRO:HB2	1:2:77:ILE:HG13	1.83	0.60
1:5:308:ALA:HB1	1:7:282:THR:HG21	1.83	0.60
1:6:87:GLN:HE21	1:6:193:ILE:HD13	1.65	0.60
1:B:77:ILE:HG13	1:L:261:PRO:HB2	1.83	0.60
1:B:194:PRO:HG2	1:B:195:VAL:HG23	1.82	0.60
1:D:261:PRO:HB2	1:N:77:ILE:HG13	1.83	0.60
1:H:308:ALA:HB1	1:Y:282:THR:HG21	1.83	0.60
1:O:282:THR:HG21	1:m:308:ALA:HB1	1.83	0.60
1:R:261:PRO:HB2	1:S:77:ILE:HG13	1.83	0.60
1:T:308:ALA:HB1	1:l:282:THR:HG21	1.83	0.60
1:l:194:PRO:HG2	1:l:195:VAL:HG23	1.82	0.60
1:o:194:PRO:HG2	1:o:195:VAL:HG23	1.82	0.60
1:t:77:ILE:HG13	1:v:261:PRO:HB2	1.84	0.60
1:D:77:ILE:HG13	1:P:261:PRO:HB2	1.83	0.60
1:J:261:PRO:HB2	1:L:77:ILE:HG13	1.84	0.60
1:N:175:ASP:CB	1:N:188:PHE:CZ	2.83	0.60
1:P:175:ASP:CB	1:P:188:PHE:CZ	2.83	0.60
1:S:261:PRO:HB2	1:U:77:ILE:HG13	1.83	0.60
1:W:194:PRO:HG2	1:W:195:VAL:HG23	1.82	0.60
1:W:282:THR:HG21	1:Y:308:ALA:HB1	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:175:ASP:CB	1:j:188:PHE:CZ	2.83	0.60
1:r:194:PRO:HG2	1:r:195:VAL:HG23	1.82	0.60
1:1:194:PRO:HG2	1:1:195:VAL:HG23	1.82	0.60
1:6:194:PRO:HG2	1:6:195:VAL:HG23	1.82	0.60
1:6:282:THR:HG21	1:7:308:ALA:HB1	1.83	0.60
1:7:194:PRO:HG2	1:7:195:VAL:HG23	1.82	0.60
1:B:308:ALA:HB1	1:L:282:THR:HG21	1.83	0.60
1:D:194:PRO:HG2	1:D:195:VAL:HG23	1.82	0.60
1:E:194:PRO:HG2	1:E:195:VAL:HG23	1.82	0.60
1:G:261:PRO:HB2	1:I:77:ILE:HG13	1.84	0.60
1:K:194:PRO:HG2	1:K:195:VAL:HG23	1.82	0.60
1:j:261:PRO:HB2	1:k:77:ILE:HG13	1.83	0.60
1:k:194:PRO:HG2	1:k:195:VAL:HG23	1.82	0.60
1:r:261:PRO:HB2	1:s:77:ILE:HG13	1.83	0.60
1:z:77:ILE:HG13	1:2:261:PRO:HB2	1.83	0.60
1:z:282:THR:HG21	1:1:308:ALA:HB1	1.83	0.60
1:3:77:ILE:HG13	1:4:261:PRO:HB2	1.84	0.60
1:E:282:THR:HG21	1:Q:308:ALA:HB1	1.83	0.60
1:J:194:PRO:HG2	1:J:195:VAL:HG23	1.82	0.60
1:K:261:PRO:HB2	1:a:77:ILE:HG13	1.84	0.60
1:N:261:PRO:HB2	1:P:77:ILE:HG13	1.83	0.60
1:Y:194:PRO:HG2	1:Y:195:VAL:HG23	1.82	0.60
1:Z:282:THR:HG21	1:4:308:ALA:HB1	1.84	0.60
1:i:261:PRO:HB2	1:j:77:ILE:HG13	1.83	0.60
1:t:261:PRO:HB2	1:u:77:ILE:HG13	1.84	0.60
1:4:194:PRO:HG2	1:4:195:VAL:HG23	1.82	0.60
1:5:77:ILE:HG13	1:7:261:PRO:HB2	1.83	0.60
1:F:194:PRO:HG2	1:F:195:VAL:HG23	1.82	0.60
1:H:77:ILE:HG13	1:Y:261:PRO:HB2	1.83	0.60
1:K:308:ALA:HB1	1:8:282:THR:HG21	1.84	0.60
1:L:194:PRO:HG2	1:L:195:VAL:HG23	1.82	0.60
1:M:87:GLN:HE21	1:M:193:ILE:HD13	1.65	0.60
1:S:87:GLN:HE21	1:S:193:ILE:HD13	1.65	0.60
1:T:194:PRO:HG2	1:T:195:VAL:HG23	1.82	0.60
1:X:308:ALA:HB1	1:e:282:THR:HG21	1.83	0.60
1:Z:261:PRO:HB2	1:4:77:ILE:HG13	1.84	0.60
1:a:282:THR:HG21	1:8:308:ALA:HB1	1.83	0.60
1:c:282:THR:HG21	1:o:308:ALA:HB1	1.83	0.60
1:m:194:PRO:HG2	1:m:195:VAL:HG23	1.82	0.60
1:v:175:ASP:CB	1:v:188:PHE:CZ	2.83	0.60
1:w:194:PRO:HG2	1:w:195:VAL:HG23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:282:THR:HG21	1:x:308:ALA:HB1	1.83	0.60
1:5:175:ASP:CB	1:5:188:PHE:CZ	2.83	0.60
1:B:282:THR:HG21	1:J:308:ALA:HB1	1.84	0.60
1:K:77:ILE:HG13	1:8:261:PRO:HB2	1.84	0.60
1:Z:308:ALA:HB1	1:3:282:THR:HG21	1.83	0.60
1:h:87:GLN:HE21	1:h:193:ILE:HD13	1.65	0.60
1:n:87:GLN:HE21	1:n:193:ILE:HD13	1.65	0.60
1:p:70:HIS:HB3	1:p:450:LYS:HE3	1.84	0.60
1:r:87:GLN:HE21	1:r:193:ILE:HD13	1.65	0.60
1:t:194:PRO:HG2	1:t:195:VAL:HG23	1.82	0.60
1:w:261:PRO:HB2	1:x:77:ILE:HG13	1.84	0.60
1:y:194:PRO:HG2	1:y:195:VAL:HG23	1.82	0.60
1:z:194:PRO:HG2	1:z:195:VAL:HG23	1.82	0.60
1:z:261:PRO:HB2	1:1:77:ILE:HG13	1.84	0.60
1:A:175:ASP:CB	1:A:188:PHE:CZ	2.83	0.60
1:E:261:PRO:HB2	1:Q:77:ILE:HG13	1.84	0.60
1:H:175:ASP:CB	1:H:188:PHE:CZ	2.83	0.60
1:H:406:ARG:HB2	1:H:531:LYS:HZ1	1.67	0.60
1:O:70:HIS:HB3	1:O:450:LYS:HE3	1.84	0.60
1:V:70:HIS:HB3	1:V:450:LYS:HE3	1.84	0.60
1:V:282:THR:HG21	1:e:308:ALA:HB1	1.83	0.60
1:f:308:ALA:HB1	1:g:282:THR:HG21	1.83	0.60
1:i:194:PRO:HG2	1:i:195:VAL:HG23	1.82	0.60
1:2:194:PRO:HG2	1:2:195:VAL:HG23	1.82	0.60
1:5:406:ARG:HB2	1:5:531:LYS:HZ1	1.67	0.60
1:C:282:THR:HG21	1:b:308:ALA:HB1	1.83	0.60
1:M:77:ILE:HG13	1:b:261:PRO:HB2	1.83	0.60
1:O:175:ASP:CB	1:O:188:PHE:CZ	2.83	0.60
1:W:70:HIS:HB3	1:W:450:LYS:HE3	1.84	0.60
1:c:308:ALA:HB1	1:p:282:THR:HG21	1.83	0.60
1:d:87:GLN:HE21	1:d:193:ILE:HD13	1.65	0.60
1:e:194:PRO:HG2	1:e:195:VAL:HG23	1.82	0.60
1:l:70:HIS:HB3	1:l:450:LYS:HE3	1.84	0.60
1:l:175:ASP:CB	1:l:188:PHE:CZ	2.83	0.60
1:o:261:PRO:HB2	1:p:77:ILE:HG13	1.84	0.60
1:6:70:HIS:HB3	1:6:450:LYS:HE3	1.84	0.60
1:C:308:ALA:HB1	1:M:282:THR:HG21	1.84	0.59
1:G:194:PRO:HG2	1:G:195:VAL:HG23	1.82	0.59
1:J:70:HIS:HB3	1:J:450:LYS:HE3	1.84	0.59
1:T:511:HIS:CD2	1:U:218:PHE:HB2	2.37	0.59
1:V:77:ILE:HG13	1:X:261:PRO:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:70:HIS:HB3	1:X:450:LYS:HE3	1.84	0.59
1:c:194:PRO:HG2	1:c:195:VAL:HG23	1.82	0.59
1:f:261:PRO:HB2	1:h:77:ILE:HG13	1.83	0.59
1:m:511:HIS:CD2	1:s:218:PHE:HB2	2.37	0.59
1:o:70:HIS:HB3	1:o:450:LYS:HE3	1.84	0.59
1:x:261:PRO:HB2	1:y:77:ILE:HG13	1.84	0.59
1:z:218:PHE:HB2	1:4:511:HIS:CD2	2.37	0.59
1:2:70:HIS:HB3	1:2:450:LYS:HE3	1.84	0.59
1:4:316:MET:HE3	1:4:331:ALA:HA	1.85	0.59
1:5:70:HIS:HB3	1:5:450:LYS:HE3	1.84	0.59
1:B:70:HIS:HB3	1:B:450:LYS:HE3	1.84	0.59
1:K:175:ASP:CB	1:K:188:PHE:CZ	2.84	0.59
1:K:316:MET:HE3	1:K:331:ALA:HA	1.85	0.59
1:N:194:PRO:HG2	1:N:195:VAL:HG23	1.82	0.59
1:Z:316:MET:HE3	1:Z:331:ALA:HA	1.84	0.59
1:a:70:HIS:HB3	1:a:450:LYS:HE3	1.84	0.59
1:d:175:ASP:CB	1:d:188:PHE:CZ	2.83	0.59
1:g:308:ALA:HB1	1:h:282:THR:HG21	1.84	0.59
1:v:511:HIS:CD2	1:w:218:PHE:HB2	2.37	0.59
1:x:70:HIS:HB3	1:x:450:LYS:HE3	1.84	0.59
1:3:70:HIS:HB3	1:3:450:LYS:HE3	1.84	0.59
1:4:175:ASP:CB	1:4:188:PHE:CZ	2.83	0.59
1:8:316:MET:HE3	1:8:331:ALA:HA	1.84	0.59
1:A:511:HIS:CD2	1:E:218:PHE:HB2	2.37	0.59
1:C:316:MET:HE3	1:C:331:ALA:HA	1.84	0.59
1:E:77:ILE:HG13	1:F:261:PRO:HB2	1.84	0.59
1:F:77:ILE:HG13	1:Q:261:PRO:HB2	1.84	0.59
1:H:70:HIS:HB3	1:H:450:LYS:HE3	1.84	0.59
1:O:308:ALA:HB1	1:n:282:THR:HG21	1.83	0.59
1:P:70:HIS:HB3	1:P:450:LYS:HE3	1.84	0.59
1:Q:70:HIS:HB3	1:Q:450:LYS:HE3	1.84	0.59
1:R:282:THR:HG21	1:S:308:ALA:HB1	1.83	0.59
1:S:70:HIS:HB3	1:S:450:LYS:HE3	1.84	0.59
1:g:70:HIS:HB3	1:g:450:LYS:HE3	1.84	0.59
1:g:316:MET:HE3	1:g:331:ALA:HA	1.85	0.59
1:j:70:HIS:HB3	1:j:450:LYS:HE3	1.84	0.59
1:n:175:ASP:CB	1:n:188:PHE:CZ	2.83	0.59
1:u:70:HIS:HB3	1:u:450:LYS:HE3	1.84	0.59
1:1:70:HIS:HB3	1:1:450:LYS:HE3	1.84	0.59
1:5:282:THR:HG21	1:6:308:ALA:HB1	1.83	0.59
1:C:70:HIS:HB3	1:C:450:LYS:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:316:MET:HE3	1:F:331:ALA:HA	1.84	0.59
1:H:282:THR:HG21	1:W:308:ALA:HB1	1.83	0.59
1:Q:316:MET:HE3	1:Q:331:ALA:HA	1.84	0.59
1:R:70:HIS:HB3	1:R:450:LYS:HE3	1.84	0.59
1:R:316:MET:HE3	1:R:331:ALA:HA	1.84	0.59
1:T:282:THR:HG21	1:d:308:ALA:HB1	1.83	0.59
1:b:511:HIS:CD2	1:o:218:PHE:HB2	2.38	0.59
1:c:316:MET:HE3	1:c:331:ALA:HA	1.84	0.59
1:e:316:MET:HE3	1:e:331:ALA:HA	1.84	0.59
1:m:261:PRO:HB2	1:n:77:ILE:HG13	1.84	0.59
1:m:282:THR:HG21	1:n:308:ALA:HB1	1.83	0.59
1:n:70:HIS:HB3	1:n:450:LYS:HE3	1.84	0.59
1:q:70:HIS:HB3	1:q:450:LYS:HE3	1.84	0.59
1:q:282:THR:HG21	1:r:308:ALA:HB1	1.83	0.59
1:q:316:MET:HE3	1:q:331:ALA:HA	1.84	0.59
1:r:70:HIS:HB3	1:r:450:LYS:HE3	1.84	0.59
1:u:194:PRO:HG2	1:u:195:VAL:HG23	1.82	0.59
1:x:316:MET:HE3	1:x:331:ALA:HA	1.84	0.59
1:5:316:MET:HE3	1:5:331:ALA:HA	1.85	0.59
1:H:316:MET:HE3	1:H:331:ALA:HA	1.85	0.59
1:S:511:HIS:CD2	1:d:218:PHE:HB2	2.38	0.59
1:T:261:PRO:HB2	1:d:77:ILE:HG13	1.84	0.59
1:X:218:PHE:HB2	1:f:511:HIS:CD2	2.38	0.59
1:d:70:HIS:HB3	1:d:450:LYS:HE3	1.84	0.59
1:d:282:THR:HG21	1:l:308:ALA:HB1	1.83	0.59
1:d:316:MET:HE3	1:d:331:ALA:HA	1.84	0.59
1:f:218:PHE:HB2	1:z:511:HIS:CD2	2.37	0.59
1:g:77:ILE:HG13	1:h:261:PRO:HB2	1.83	0.59
1:n:218:PHE:HB2	1:r:511:HIS:CD2	2.38	0.59
1:n:316:MET:HE3	1:n:331:ALA:HA	1.84	0.59
1:w:77:ILE:HG13	1:y:261:PRO:HB2	1.84	0.59
1:y:316:MET:HE3	1:y:331:ALA:HA	1.84	0.59
1:E:70:HIS:HB3	1:E:450:LYS:HE3	1.84	0.59
1:F:218:PHE:HB2	1:R:511:HIS:CD2	2.37	0.59
1:G:70:HIS:HB3	1:G:450:LYS:HE3	1.84	0.59
1:I:70:HIS:HB3	1:I:450:LYS:HE3	1.84	0.59
1:I:194:PRO:HG2	1:I:195:VAL:HG23	1.82	0.59
1:L:70:HIS:HB3	1:L:450:LYS:HE3	1.84	0.59
1:O:316:MET:HE3	1:O:331:ALA:HA	1.84	0.59
1:R:308:ALA:HB1	1:U:282:THR:HG21	1.83	0.59
1:V:316:MET:HE3	1:V:331:ALA:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:316:MET:HE3	1:j:331:ALA:HA	1.85	0.59
1:l:316:MET:HE3	1:l:331:ALA:HA	1.84	0.59
1:p:316:MET:HE3	1:p:331:ALA:HA	1.85	0.59
1:q:511:HIS:CD2	1:y:218:PHE:HB2	2.37	0.59
1:z:316:MET:HE3	1:z:331:ALA:HA	1.84	0.59
1:1:316:MET:HE3	1:1:331:ALA:HA	1.84	0.59
1:B:316:MET:HE3	1:B:331:ALA:HA	1.85	0.59
1:C:77:ILE:HG13	1:M:261:PRO:HB2	1.84	0.59
1:E:316:MET:HE3	1:E:331:ALA:HA	1.85	0.59
1:F:511:HIS:CD2	1:G:218:PHE:HB2	2.37	0.59
1:K:218:PHE:HB2	1:7:511:HIS:CD2	2.38	0.59
1:L:316:MET:HE3	1:L:331:ALA:HA	1.85	0.59
1:P:316:MET:HE3	1:P:331:ALA:HA	1.85	0.59
1:Y:511:HIS:CD2	1:4:218:PHE:HB2	2.38	0.59
1:f:175:ASP:CB	1:f:188:PHE:CZ	2.83	0.59
1:q:308:ALA:HB1	1:s:282:THR:HG21	1.83	0.59
1:t:70:HIS:HB3	1:t:450:LYS:HE3	1.84	0.59
1:t:218:PHE:HB2	1:y:511:HIS:CD2	2.37	0.59
1:u:261:PRO:HB2	1:v:77:ILE:HG13	1.84	0.59
1:w:70:HIS:HB3	1:w:450:LYS:HE3	1.84	0.59
1:w:316:MET:HE3	1:w:331:ALA:HA	1.85	0.59
1:D:282:THR:HG21	1:N:308:ALA:HB1	1.83	0.59
1:D:308:ALA:HB1	1:P:282:THR:HG21	1.83	0.59
1:G:511:HIS:CD2	1:W:218:PHE:HB2	2.38	0.59
1:H:261:PRO:HB2	1:W:77:ILE:HG13	1.83	0.59
1:W:261:PRO:HB2	1:Y:77:ILE:HG13	1.83	0.59
1:b:175:ASP:CB	1:b:188:PHE:CZ	2.83	0.59
1:e:511:HIS:CD2	1:h:218:PHE:HB2	2.38	0.59
1:h:316:MET:HE3	1:h:331:ALA:HA	1.84	0.59
1:i:308:ALA:HB1	1:k:282:THR:HG21	1.83	0.59
1:z:70:HIS:HB3	1:z:450:LYS:HE3	1.84	0.59
1:6:261:PRO:HB2	1:7:77:ILE:HG13	1.83	0.59
1:A:77:ILE:HG13	1:I:261:PRO:HB2	1.84	0.59
1:A:218:PHE:HB2	1:B:511:HIS:CD2	2.37	0.59
1:C:261:PRO:HB2	1:b:77:ILE:HG13	1.84	0.59
1:K:282:THR:HG21	1:a:308:ALA:HB1	1.83	0.59
1:L:511:HIS:CD2	1:b:218:PHE:HB2	2.38	0.59
1:M:218:PHE:HB2	1:c:511:HIS:CD2	2.38	0.59
1:T:70:HIS:HB3	1:T:450:LYS:HE3	1.84	0.59
1:j:282:THR:HG21	1:k:308:ALA:HB1	1.83	0.59
1:m:70:HIS:HB3	1:m:450:LYS:HE3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:511:HIS:CD2	1:6:218:PHE:HB2	2.38	0.59
1:5:261:PRO:HB2	1:6:77:ILE:HG13	1.83	0.59
1:H:511:HIS:CD2	1:I:218:PHE:HB2	2.38	0.59
1:X:511:HIS:CD2	1:Y:218:PHE:HB2	2.38	0.59
1:f:77:ILE:HG13	1:g:261:PRO:HB2	1.84	0.59
1:o:316:MET:HE3	1:o:331:ALA:HA	1.84	0.59
1:v:218:PHE:HB2	1:1:511:HIS:CD2	2.37	0.59
1:7:70:HIS:HB3	1:7:450:LYS:HE3	1.84	0.59
1:M:70:HIS:HB3	1:M:450:LYS:HE3	1.84	0.58
1:M:316:MET:HE3	1:M:331:ALA:HA	1.84	0.58
1:O:218:PHE:HB2	1:d:511:HIS:CD2	2.38	0.58
1:P:511:HIS:CD2	1:Q:218:PHE:HB2	2.38	0.58
1:T:316:MET:HE3	1:T:331:ALA:HA	1.85	0.58
1:Y:70:HIS:HB3	1:Y:450:LYS:HE3	1.84	0.58
1:a:261:PRO:HB2	1:8:77:ILE:HG13	1.83	0.58
1:d:261:PRO:HB2	1:l:77:ILE:HG13	1.83	0.58
1:l:218:PHE:HB2	1:n:511:HIS:CD2	2.38	0.58
1:m:316:MET:HE3	1:m:331:ALA:HA	1.85	0.58
1:o:511:HIS:CD2	1:7:218:PHE:HB2	2.38	0.58
1:u:218:PHE:HB2	1:5:511:HIS:CD2	2.38	0.58
1:2:511:HIS:CD2	1:3:218:PHE:HB2	2.38	0.58
1:3:308:ALA:HB1	1:4:282:THR:HG21	1.83	0.58
1:C:175:ASP:CB	1:C:188:PHE:CZ	2.83	0.58
1:C:218:PHE:HB2	1:D:511:HIS:CD2	2.38	0.58
1:D:70:HIS:HB3	1:D:450:LYS:HE3	1.84	0.58
1:M:511:HIS:CD2	1:N:218:PHE:HB2	2.38	0.58
1:V:261:PRO:HB2	1:e:77:ILE:HG13	1.84	0.58
1:V:308:ALA:HB1	1:X:282:THR:HG21	1.84	0.58
1:c:70:HIS:HB3	1:c:450:LYS:HE3	1.84	0.58
1:c:218:PHE:HB2	1:s:511:HIS:CD2	2.37	0.58
1:g:218:PHE:HB2	1:k:511:HIS:CD2	2.38	0.58
1:j:511:HIS:CD2	1:x:218:PHE:HB2	2.38	0.58
1:k:70:HIS:HB3	1:k:450:LYS:HE3	1.84	0.58
1:F:70:HIS:HB3	1:F:450:LYS:HE3	1.84	0.58
1:O:77:ILE:HG13	1:n:261:PRO:HB2	1.83	0.58
1:R:77:ILE:HG13	1:U:261:PRO:HB2	1.84	0.58
1:U:511:HIS:CD2	1:e:218:PHE:HB2	2.37	0.58
1:X:316:MET:HE3	1:X:331:ALA:HA	1.84	0.58
1:Z:77:ILE:HG13	1:3:261:PRO:HB2	1.83	0.58
1:Z:175:ASP:CB	1:Z:188:PHE:CZ	2.83	0.58
1:h:70:HIS:HB3	1:h:450:LYS:HE3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:511:HIS:CD2	1:i:218:PHE:HB2	2.38	0.58
1:q:77:ILE:HG13	1:s:261:PRO:HB2	1.84	0.58
1:7:175:ASP:CB	1:7:188:PHE:CZ	2.83	0.58
1:U:70:HIS:HB3	1:U:450:LYS:HE3	1.84	0.58
1:b:70:HIS:HB3	1:b:450:LYS:HE3	1.84	0.58
1:c:77:ILE:HG13	1:p:261:PRO:HB2	1.84	0.58
1:e:70:HIS:HB3	1:e:450:LYS:HE3	1.84	0.58
1:g:175:ASP:CB	1:g:188:PHE:CZ	2.83	0.58
1:o:282:THR:HG21	1:p:308:ALA:HB1	1.84	0.58
1:s:70:HIS:HB3	1:s:450:LYS:HE3	1.84	0.58
1:u:511:HIS:CD2	1:2:218:PHE:HB2	2.38	0.58
1:y:70:HIS:HB3	1:y:450:LYS:HE3	1.84	0.58
1:6:316:MET:HE3	1:6:331:ALA:HA	1.84	0.58
1:G:282:THR:HG21	1:I:308:ALA:HB1	1.83	0.58
1:K:511:HIS:CD2	1:L:218:PHE:HB2	2.39	0.58
1:N:511:HIS:CD2	1:m:218:PHE:HB2	2.38	0.58
1:T:218:PHE:HB2	1:i:511:HIS:CD2	2.38	0.58
1:W:316:MET:HE3	1:W:331:ALA:HA	1.84	0.58
1:f:70:HIS:HB3	1:f:450:LYS:HE3	1.84	0.58
1:p:218:PHE:HB2	1:6:511:HIS:CD2	2.38	0.58
1:p:511:HIS:CD2	1:q:218:PHE:HB2	2.39	0.58
1:A:316:MET:HE3	1:A:331:ALA:HA	1.84	0.58
1:K:70:HIS:HB3	1:K:450:LYS:HE3	1.84	0.58
1:R:218:PHE:HB2	1:V:511:HIS:CD2	2.39	0.58
1:V:218:PHE:HB2	1:W:511:HIS:CD2	2.38	0.58
1:Y:175:ASP:CB	1:Y:188:PHE:CZ	2.83	0.58
1:4:70:HIS:HB3	1:4:450:LYS:HE3	1.84	0.58
1:5:218:PHE:HB2	1:8:511:HIS:CD2	2.38	0.58
1:8:175:ASP:CB	1:8:188:PHE:CZ	2.83	0.58
1:H:218:PHE:HB2	1:Z:511:HIS:CD2	2.38	0.58
1:J:316:MET:HE3	1:J:331:ALA:HA	1.84	0.58
1:J:511:HIS:CD2	1:a:218:PHE:HB2	2.39	0.58
1:O:261:PRO:HB2	1:m:77:ILE:HG13	1.84	0.58
1:O:511:HIS:CD2	1:P:218:PHE:HB2	2.38	0.58
1:T:77:ILE:HG13	1:l:261:PRO:HB2	1.84	0.58
1:r:218:PHE:HB2	1:x:511:HIS:CD2	2.38	0.58
1:t:282:THR:HG21	1:u:308:ALA:HB1	1.83	0.58
1:v:70:HIS:HB3	1:v:450:LYS:HE3	1.84	0.58
1:7:316:MET:HE3	1:7:331:ALA:HA	1.85	0.58
1:J:282:THR:HG21	1:L:308:ALA:HB1	1.86	0.58
1:Q:511:HIS:CD2	1:S:218:PHE:HB2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:316:MET:HE3	1:f:331:ALA:HA	1.84	0.58
1:i:70:HIS:HB3	1:i:450:LYS:HE3	1.84	0.58
1:j:218:PHE:HB2	1:l:511:HIS:CD2	2.38	0.58
1:s:316:MET:HE3	1:s:331:ALA:HA	1.84	0.58
1:v:316:MET:HE3	1:v:331:ALA:HA	1.84	0.58
1:w:175:ASP:CB	1:w:188:PHE:CZ	2.83	0.58
1:2:316:MET:HE3	1:2:331:ALA:HA	1.85	0.58
1:3:511:HIS:CD2	1:8:218:PHE:HB2	2.38	0.58
1:A:70:HIS:HB3	1:A:450:LYS:HE3	1.84	0.58
1:B:218:PHE:HB2	1:C:511:HIS:CD2	2.39	0.58
1:N:70:HIS:HB3	1:N:450:LYS:HE3	1.84	0.58
1:S:406:ARG:HB2	1:S:531:LYS:HZ1	1.69	0.58
1:U:316:MET:HE3	1:U:331:ALA:HA	1.84	0.58
1:Y:316:MET:HE3	1:Y:331:ALA:HA	1.85	0.58
1:Z:218:PHE:HB2	1:a:511:HIS:CD2	2.38	0.58
1:g:511:HIS:CD2	1:l:218:PHE:HB2	2.39	0.58
1:k:218:PHE:HB2	1:w:511:HIS:CD2	2.38	0.58
1:B:175:ASP:CB	1:B:188:PHE:CZ	2.83	0.58
1:Z:70:HIS:HB3	1:Z:450:LYS:HE3	1.84	0.58
1:b:316:MET:HE3	1:b:331:ALA:HA	1.84	0.58
1:8:70:HIS:HB3	1:8:450:LYS:HE3	1.84	0.58
1:D:218:PHE:HB2	1:E:511:HIS:CD2	2.38	0.57
1:E:175:ASP:CB	1:E:188:PHE:CZ	2.83	0.57
1:I:316:MET:HE3	1:I:331:ALA:HA	1.84	0.57
1:u:316:MET:HE3	1:u:331:ALA:HA	1.84	0.57
1:S:316:MET:HE3	1:S:331:ALA:HA	1.85	0.57
1:t:406:ARG:HB2	1:t:531:LYS:HZ1	1.69	0.57
1:3:316:MET:HE3	1:3:331:ALA:HA	1.84	0.57
1:D:316:MET:HE3	1:D:331:ALA:HA	1.84	0.57
1:I:511:HIS:CD2	1:J:218:PHE:HB2	2.40	0.57
1:a:316:MET:HE3	1:a:331:ALA:HA	1.85	0.57
1:k:316:MET:HE3	1:k:331:ALA:HA	1.84	0.57
1:r:316:MET:HE3	1:r:331:ALA:HA	1.85	0.57
1:t:316:MET:HE3	1:t:331:ALA:HA	1.85	0.57
1:1:175:ASP:CB	1:1:188:PHE:CZ	2.83	0.57
1:G:316:MET:HE3	1:G:331:ALA:HA	1.85	0.57
1:A:406:ARG:HB2	1:A:531:LYS:HZ1	1.70	0.57
1:N:273:GLN:HG3	1:N:278:ALA:HA	1.87	0.57
1:Z:273:GLN:HG3	1:Z:278:ALA:HA	1.87	0.57
1:i:273:GLN:HG3	1:i:278:ALA:HA	1.87	0.57
1:8:273:GLN:HG3	1:8:278:ALA:HA	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:348:ASP:OD1	1:H:349:LEU:N	2.38	0.57
1:N:316:MET:HE3	1:N:331:ALA:HA	1.85	0.57
1:Q:273:GLN:HG3	1:Q:278:ALA:HA	1.87	0.57
1:c:273:GLN:HG3	1:c:278:ALA:HA	1.87	0.57
1:e:273:GLN:HG3	1:e:278:ALA:HA	1.87	0.57
1:i:316:MET:HE3	1:i:331:ALA:HA	1.85	0.57
1:x:273:GLN:HG3	1:x:278:ALA:HA	1.87	0.57
1:A:348:ASP:OD1	1:A:349:LEU:N	2.38	0.57
1:E:348:ASP:OD1	1:E:349:LEU:N	2.38	0.57
1:E:406:ARG:HB2	1:E:531:LYS:HZ1	1.69	0.57
1:r:273:GLN:HG3	1:r:278:ALA:HA	1.87	0.57
1:v:348:ASP:OD1	1:v:349:LEU:N	2.38	0.57
1:v:406:ARG:HB2	1:v:531:LYS:HZ2	1.70	0.57
1:w:348:ASP:OD1	1:w:349:LEU:N	2.38	0.57
1:5:348:ASP:OD1	1:5:349:LEU:N	2.38	0.57
1:B:273:GLN:HG3	1:B:278:ALA:HA	1.87	0.57
1:G:406:ARG:HB2	1:G:531:LYS:HZ1	1.70	0.57
1:O:348:ASP:OD1	1:O:349:LEU:N	2.38	0.57
1:P:406:ARG:HB2	1:P:531:LYS:HZ1	1.69	0.57
1:Q:406:ARG:HB2	1:Q:531:LYS:HZ1	1.69	0.57
1:S:273:GLN:HG3	1:S:278:ALA:HA	1.87	0.57
1:U:30:GLY:HA3	1:e:233:GLU:HG2	1.87	0.57
1:a:348:ASP:OD1	1:a:349:LEU:N	2.38	0.57
1:c:233:GLU:HG2	1:s:30:GLY:HA3	1.87	0.57
1:l:348:ASP:OD1	1:l:349:LEU:N	2.38	0.57
1:p:348:ASP:OD1	1:p:349:LEU:N	2.38	0.57
1:r:175:ASP:CB	1:r:188:PHE:CZ	2.83	0.57
1:s:273:GLN:HG3	1:s:278:ALA:HA	1.87	0.57
1:x:406:ARG:HB2	1:x:531:LYS:HZ1	1.69	0.57
1:3:348:ASP:OD1	1:3:349:LEU:N	2.38	0.57
1:6:273:GLN:HG3	1:6:278:ALA:HA	1.87	0.57
1:8:348:ASP:OD1	1:8:349:LEU:N	2.38	0.57
1:C:273:GLN:HG3	1:C:278:ALA:HA	1.87	0.57
1:U:273:GLN:HG3	1:U:278:ALA:HA	1.87	0.57
1:U:406:ARG:HB2	1:U:531:LYS:HZ1	1.69	0.57
1:V:348:ASP:OD1	1:V:349:LEU:N	2.38	0.57
1:W:273:GLN:HG3	1:W:278:ALA:HA	1.87	0.57
1:Y:348:ASP:OD1	1:Y:349:LEU:N	2.38	0.57
1:Z:348:ASP:OD1	1:Z:349:LEU:N	2.38	0.57
1:b:273:GLN:HG3	1:b:278:ALA:HA	1.87	0.57
1:j:406:ARG:HB2	1:j:531:LYS:HZ1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:406:ARG:HB2	1:s:531:LYS:HZ1	1.69	0.57
1:1:273:GLN:HG3	1:1:278:ALA:HA	1.87	0.57
1:H:273:GLN:HG3	1:H:278:ALA:HA	1.87	0.56
1:M:348:ASP:OD1	1:M:349:LEU:N	2.38	0.56
1:f:273:GLN:HG3	1:f:278:ALA:HA	1.87	0.56
1:g:273:GLN:HG3	1:g:278:ALA:HA	1.87	0.56
1:h:348:ASP:OD1	1:h:349:LEU:N	2.38	0.56
1:r:348:ASP:OD1	1:r:349:LEU:N	2.38	0.56
1:7:348:ASP:OD1	1:7:349:LEU:N	2.38	0.56
1:C:28:VAL:HG12	1:C:30:GLY:H	1.71	0.56
1:J:538:LEU:O	1:L:418:LYS:NZ	2.38	0.56
1:K:383:TYR:HB3	1:K:390:TYR:HB3	1.88	0.56
1:S:175:ASP:CB	1:S:188:PHE:CZ	2.83	0.56
1:S:348:ASP:OD1	1:S:349:LEU:N	2.38	0.56
1:g:28:VAL:HG12	1:g:30:GLY:H	1.71	0.56
1:h:273:GLN:HG3	1:h:278:ALA:HA	1.87	0.56
1:5:273:GLN:HG3	1:5:278:ALA:HA	1.87	0.56
1:A:383:TYR:HB3	1:A:390:TYR:HB3	1.88	0.56
1:D:28:VAL:HG12	1:D:30:GLY:H	1.71	0.56
1:E:383:TYR:HB3	1:E:390:TYR:HB3	1.88	0.56
1:F:418:LYS:NZ	1:Q:538:LEU:O	2.39	0.56
1:G:383:TYR:HB3	1:G:390:TYR:HB3	1.88	0.56
1:I:28:VAL:HG12	1:I:30:GLY:H	1.71	0.56
1:L:28:VAL:HG12	1:L:30:GLY:H	1.71	0.56
1:M:28:VAL:HG12	1:M:30:GLY:H	1.71	0.56
1:M:30:GLY:HA3	1:N:233:GLU:HG2	1.87	0.56
1:M:273:GLN:HG3	1:M:278:ALA:HA	1.87	0.56
1:Q:28:VAL:HG12	1:Q:30:GLY:H	1.71	0.56
1:R:233:GLU:HG2	1:V:30:GLY:HA3	1.87	0.56
1:T:383:TYR:HB3	1:T:390:TYR:HB3	1.88	0.56
1:V:233:GLU:HG2	1:W:30:GLY:HA3	1.88	0.56
1:V:273:GLN:HG3	1:V:278:ALA:HA	1.87	0.56
1:V:406:ARG:HB2	1:V:531:LYS:HZ1	1.70	0.56
1:X:348:ASP:OD1	1:X:349:LEU:N	2.38	0.56
1:Y:273:GLN:HG3	1:Y:278:ALA:HA	1.87	0.56
1:h:28:VAL:HG12	1:h:30:GLY:H	1.71	0.56
1:k:28:VAL:HG12	1:k:30:GLY:H	1.71	0.56
1:m:383:TYR:HB3	1:m:390:TYR:HB3	1.88	0.56
1:o:348:ASP:OD1	1:o:349:LEU:N	2.38	0.56
1:p:30:GLY:HA3	1:q:233:GLU:HG2	1.87	0.56
1:p:233:GLU:HG2	1:6:30:GLY:HA3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:273:GLN:HG3	1:p:278:ALA:HA	1.87	0.56
1:s:348:ASP:OD1	1:s:349:LEU:N	2.38	0.56
1:t:383:TYR:HB3	1:t:390:TYR:HB3	1.88	0.56
1:u:28:VAL:HG12	1:u:30:GLY:H	1.71	0.56
1:v:383:TYR:HB3	1:v:390:TYR:HB3	1.88	0.56
1:w:383:TYR:HB3	1:w:390:TYR:HB3	1.88	0.56
1:x:538:LEU:O	1:y:418:LYS:NZ	2.39	0.56
1:z:28:VAL:HG12	1:z:30:GLY:H	1.71	0.56
1:2:28:VAL:HG12	1:2:30:GLY:H	1.71	0.56
1:4:383:TYR:HB3	1:4:390:TYR:HB3	1.88	0.56
1:7:273:GLN:HG3	1:7:278:ALA:HA	1.87	0.56
1:A:30:GLY:HA3	1:E:233:GLU:HG2	1.88	0.56
1:A:418:LYS:NZ	1:I:538:LEU:O	2.38	0.56
1:B:386:ASN:O	1:B:387:GLN:HG2	2.06	0.56
1:F:273:GLN:HG3	1:F:278:ALA:HA	1.87	0.56
1:G:538:LEU:O	1:I:418:LYS:NZ	2.39	0.56
1:H:383:TYR:HB3	1:H:390:TYR:HB3	1.88	0.56
1:I:30:GLY:HA3	1:J:233:GLU:HG2	1.87	0.56
1:K:104:SER:HB2	1:K:177:MET:HE2	1.88	0.56
1:L:273:GLN:HG3	1:L:278:ALA:HA	1.87	0.56
1:M:386:ASN:O	1:M:387:GLN:HG2	2.06	0.56
1:U:348:ASP:OD1	1:U:349:LEU:N	2.38	0.56
1:U:383:TYR:HB3	1:U:390:TYR:HB3	1.88	0.56
1:Z:383:TYR:HB3	1:Z:390:TYR:HB3	1.88	0.56
1:c:28:VAL:HG12	1:c:30:GLY:H	1.71	0.56
1:c:406:ARG:HB2	1:c:531:LYS:HZ1	1.69	0.56
1:e:28:VAL:HG12	1:e:30:GLY:H	1.71	0.56
1:e:406:ARG:HB2	1:e:531:LYS:HZ1	1.70	0.56
1:h:30:GLY:HA3	1:i:233:GLU:HG2	1.87	0.56
1:h:175:ASP:CB	1:h:188:PHE:CZ	2.83	0.56
1:h:386:ASN:O	1:h:387:GLN:HG2	2.06	0.56
1:n:348:ASP:OD1	1:n:349:LEU:N	2.38	0.56
1:p:383:TYR:HB3	1:p:390:TYR:HB3	1.88	0.56
1:s:383:TYR:HB3	1:s:390:TYR:HB3	1.88	0.56
1:u:30:GLY:HA3	1:2:233:GLU:HG2	1.87	0.56
1:x:28:VAL:HG12	1:x:30:GLY:H	1.71	0.56
1:z:175:ASP:CB	1:z:188:PHE:CZ	2.83	0.56
1:z:273:GLN:HG3	1:z:278:ALA:HA	1.87	0.56
1:1:386:ASN:O	1:1:387:GLN:HG2	2.06	0.56
1:4:28:VAL:HG12	1:4:30:GLY:H	1.71	0.56
1:4:104:SER:HB2	1:4:177:MET:HE2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:383:TYR:HB3	1:5:390:TYR:HB3	1.88	0.56
1:6:28:VAL:HG12	1:6:30:GLY:H	1.71	0.56
1:8:383:TYR:HB3	1:8:390:TYR:HB3	1.88	0.56
1:E:538:LEU:O	1:Q:418:LYS:NZ	2.39	0.56
1:G:104:SER:HB2	1:G:177:MET:HE2	1.88	0.56
1:G:386:ASN:O	1:G:387:GLN:HG2	2.06	0.56
1:K:28:VAL:HG12	1:K:30:GLY:H	1.71	0.56
1:K:30:GLY:HA3	1:L:233:GLU:HG2	1.87	0.56
1:O:233:GLU:HG2	1:d:30:GLY:HA3	1.88	0.56
1:P:30:GLY:HA3	1:Q:233:GLU:HG2	1.87	0.56
1:R:273:GLN:HG3	1:R:278:ALA:HA	1.87	0.56
1:S:104:SER:HB2	1:S:177:MET:HE2	1.88	0.56
1:T:386:ASN:O	1:T:387:GLN:HG2	2.06	0.56
1:V:383:TYR:HB3	1:V:390:TYR:HB3	1.88	0.56
1:V:386:ASN:O	1:V:387:GLN:HG2	2.06	0.56
1:W:28:VAL:HG12	1:W:30:GLY:H	1.71	0.56
1:X:28:VAL:HG12	1:X:30:GLY:H	1.71	0.56
1:b:104:SER:HB2	1:b:177:MET:HE2	1.88	0.56
1:c:383:TYR:HB3	1:c:390:TYR:HB3	1.88	0.56
1:d:348:ASP:OD1	1:d:349:LEU:N	2.38	0.56
1:f:233:GLU:HG2	1:z:30:GLY:HA3	1.87	0.56
1:j:30:GLY:HA3	1:x:233:GLU:HG2	1.87	0.56
1:l:233:GLU:HG2	1:n:30:GLY:HA3	1.88	0.56
1:l:386:ASN:O	1:l:387:GLN:HG2	2.06	0.56
1:m:386:ASN:O	1:m:387:GLN:HG2	2.06	0.56
1:p:28:VAL:HG12	1:p:30:GLY:H	1.71	0.56
1:p:386:ASN:O	1:p:387:GLN:HG2	2.06	0.56
1:t:104:SER:HB2	1:t:177:MET:HE2	1.88	0.56
1:t:386:ASN:O	1:t:387:GLN:HG2	2.06	0.56
1:t:538:LEU:O	1:u:418:LYS:NZ	2.39	0.56
1:w:538:LEU:O	1:x:418:LYS:NZ	2.39	0.56
1:y:273:GLN:HG3	1:y:278:ALA:HA	1.87	0.56
1:3:30:GLY:HA3	1:8:233:GLU:HG2	1.88	0.56
1:3:386:ASN:O	1:3:387:GLN:HG2	2.06	0.56
1:B:68:ASN:ND2	1:B:71:LYS:O	2.39	0.56
1:H:104:SER:HB2	1:H:177:MET:HE2	1.88	0.56
1:I:104:SER:HB2	1:I:177:MET:HE2	1.88	0.56
1:I:348:ASP:OD1	1:I:349:LEU:N	2.38	0.56
1:J:28:VAL:HG12	1:J:30:GLY:H	1.71	0.56
1:M:175:ASP:CB	1:M:188:PHE:CZ	2.83	0.56
1:N:30:GLY:HA3	1:m:233:GLU:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:538:LEU:O	1:P:418:LYS:NZ	2.39	0.56
1:O:30:GLY:HA3	1:P:233:GLU:HG2	1.87	0.56
1:O:386:ASN:O	1:O:387:GLN:HG2	2.06	0.56
1:Q:386:ASN:O	1:Q:387:GLN:HG2	2.06	0.56
1:S:386:ASN:O	1:S:387:GLN:HG2	2.06	0.56
1:V:538:LEU:O	1:e:418:LYS:NZ	2.39	0.56
1:Y:68:ASN:ND2	1:Y:71:LYS:O	2.39	0.56
1:Z:233:GLU:HG2	1:a:30:GLY:HA3	1.88	0.56
1:a:386:ASN:O	1:a:387:GLN:HG2	2.06	0.56
1:c:418:LYS:NZ	1:p:538:LEU:O	2.39	0.56
1:e:383:TYR:HB3	1:e:390:TYR:HB3	1.88	0.56
1:g:348:ASP:OD1	1:g:349:LEU:N	2.38	0.56
1:i:538:LEU:O	1:j:418:LYS:NZ	2.39	0.56
1:k:273:GLN:HG3	1:k:278:ALA:HA	1.87	0.56
1:k:383:TYR:HB3	1:k:390:TYR:HB3	1.88	0.56
1:o:28:VAL:HG12	1:o:30:GLY:H	1.71	0.56
1:o:406:ARG:HB2	1:o:531:LYS:HZ1	1.71	0.56
1:q:273:GLN:HG3	1:q:278:ALA:HA	1.87	0.56
1:r:386:ASN:O	1:r:387:GLN:HG2	2.06	0.56
1:u:104:SER:HB2	1:u:177:MET:HE2	1.88	0.56
1:u:538:LEU:O	1:v:418:LYS:NZ	2.39	0.56
1:x:386:ASN:O	1:x:387:GLN:HG2	2.06	0.56
1:6:386:ASN:O	1:6:387:GLN:HG2	2.06	0.56
1:7:68:ASN:ND2	1:7:71:LYS:O	2.39	0.56
1:B:348:ASP:OD1	1:B:349:LEU:N	2.38	0.56
1:D:273:GLN:HG3	1:D:278:ALA:HA	1.87	0.56
1:D:383:TYR:HB3	1:D:390:TYR:HB3	1.88	0.56
1:D:418:LYS:NZ	1:P:538:LEU:O	2.39	0.56
1:F:68:ASN:ND2	1:F:71:LYS:O	2.39	0.56
1:F:386:ASN:O	1:F:387:GLN:HG2	2.06	0.56
1:K:273:GLN:HG3	1:K:278:ALA:HA	1.87	0.56
1:L:383:TYR:HB3	1:L:390:TYR:HB3	1.88	0.56
1:N:104:SER:HB2	1:N:177:MET:HE2	1.88	0.56
1:N:386:ASN:O	1:N:387:GLN:HG2	2.06	0.56
1:O:28:VAL:HG12	1:O:30:GLY:H	1.71	0.56
1:O:383:TYR:HB3	1:O:390:TYR:HB3	1.88	0.56
1:O:538:LEU:O	1:m:418:LYS:NZ	2.39	0.56
1:P:104:SER:HB2	1:P:177:MET:HE2	1.88	0.56
1:P:386:ASN:O	1:P:387:GLN:HG2	2.06	0.56
1:Q:30:GLY:HA3	1:S:233:GLU:HG2	1.87	0.56
1:T:233:GLU:HG2	1:i:30:GLY:HA3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:418:LYS:NZ	1:l:538:LEU:O	2.39	0.56
1:V:28:VAL:HG12	1:V:30:GLY:H	1.71	0.56
1:W:386:ASN:O	1:W:387:GLN:HG2	2.06	0.56
1:W:538:LEU:O	1:Y:418:LYS:NZ	2.39	0.56
1:X:30:GLY:HA3	1:Y:233:GLU:HG2	1.87	0.56
1:X:386:ASN:O	1:X:387:GLN:HG2	2.06	0.56
1:X:406:ARG:HB2	1:X:531:LYS:HZ1	1.71	0.56
1:Y:386:ASN:O	1:Y:387:GLN:HG2	2.06	0.56
1:f:104:SER:HB2	1:f:177:MET:HE2	1.88	0.56
1:f:348:ASP:OD1	1:f:349:LEU:N	2.38	0.56
1:i:104:SER:HB2	1:i:177:MET:HE2	1.88	0.56
1:i:386:ASN:O	1:i:387:GLN:HG2	2.06	0.56
1:j:104:SER:HB2	1:j:177:MET:HE2	1.88	0.56
1:j:538:LEU:O	1:k:418:LYS:NZ	2.39	0.56
1:l:28:VAL:HG12	1:l:30:GLY:H	1.71	0.56
1:l:383:TYR:HB3	1:l:390:TYR:HB3	1.88	0.56
1:o:386:ASN:O	1:o:387:GLN:HG2	2.06	0.56
1:o:538:LEU:O	1:p:418:LYS:NZ	2.39	0.56
1:q:386:ASN:O	1:q:387:GLN:HG2	2.06	0.56
1:r:233:GLU:HG2	1:x:30:GLY:HA3	1.87	0.56
1:v:30:GLY:HA3	1:w:233:GLU:HG2	1.88	0.56
1:w:406:ARG:HB2	1:w:531:LYS:HZ1	1.71	0.56
1:y:68:ASN:ND2	1:y:71:LYS:O	2.39	0.56
1:y:386:ASN:O	1:y:387:GLN:HG2	2.06	0.56
1:1:68:ASN:ND2	1:1:71:LYS:O	2.39	0.56
1:4:273:GLN:HG3	1:4:278:ALA:HA	1.87	0.56
1:5:104:SER:HB2	1:5:177:MET:HE2	1.88	0.56
1:6:538:LEU:O	1:7:418:LYS:NZ	2.39	0.56
1:7:386:ASN:O	1:7:387:GLN:HG2	2.06	0.56
1:D:538:LEU:O	1:N:418:LYS:NZ	2.39	0.56
1:E:28:VAL:HG12	1:E:30:GLY:H	1.71	0.56
1:I:383:TYR:HB3	1:I:390:TYR:HB3	1.88	0.56
1:I:386:ASN:O	1:I:387:GLN:HG2	2.06	0.56
1:J:68:ASN:ND2	1:J:71:LYS:O	2.39	0.56
1:L:104:SER:HB2	1:L:177:MET:HE2	1.88	0.56
1:L:175:ASP:CB	1:L:188:PHE:CZ	2.83	0.56
1:Q:68:ASN:ND2	1:Q:71:LYS:O	2.39	0.56
1:R:68:ASN:ND2	1:R:71:LYS:O	2.39	0.56
1:R:386:ASN:O	1:R:387:GLN:HG2	2.06	0.56
1:V:418:LYS:NZ	1:X:538:LEU:O	2.39	0.56
1:W:68:ASN:ND2	1:W:71:LYS:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:273:GLN:HG3	1:a:278:ALA:HA	1.87	0.56
1:b:348:ASP:OD1	1:b:349:LEU:N	2.38	0.56
1:g:233:GLU:HG2	1:k:30:GLY:HA3	1.88	0.56
1:g:406:ARG:HB2	1:g:531:LYS:HZ1	1.71	0.56
1:i:418:LYS:NZ	1:k:538:LEU:O	2.39	0.56
1:j:233:GLU:HG2	1:l:30:GLY:HA3	1.87	0.56
1:j:386:ASN:O	1:j:387:GLN:HG2	2.06	0.56
1:o:30:GLY:HA3	1:7:233:GLU:HG2	1.87	0.56
1:q:418:LYS:NZ	1:s:538:LEU:O	2.39	0.56
1:u:383:TYR:HB3	1:u:390:TYR:HB3	1.88	0.56
1:w:28:VAL:HG12	1:w:30:GLY:H	1.71	0.56
1:x:104:SER:HB2	1:x:177:MET:HE2	1.88	0.56
1:z:348:ASP:OD1	1:z:349:LEU:N	2.38	0.56
1:z:383:TYR:HB3	1:z:390:TYR:HB3	1.88	0.56
1:2:68:ASN:ND2	1:2:71:LYS:O	2.39	0.56
1:3:273:GLN:HG3	1:3:278:ALA:HA	1.87	0.56
1:6:68:ASN:ND2	1:6:71:LYS:O	2.39	0.56
1:7:28:VAL:HG12	1:7:30:GLY:H	1.71	0.56
1:A:99:PHE:O	1:A:105:HIS:HE1	1.89	0.56
1:A:104:SER:HB2	1:A:177:MET:HE2	1.88	0.56
1:C:233:GLU:HG2	1:D:30:GLY:HA3	1.88	0.56
1:C:383:TYR:HB3	1:C:390:TYR:HB3	1.88	0.56
1:C:406:ARG:HB2	1:C:531:LYS:HZ1	1.71	0.56
1:K:418:LYS:NZ	1:8:538:LEU:O	2.39	0.56
1:L:348:ASP:OD1	1:L:349:LEU:N	2.38	0.56
1:P:28:VAL:HG12	1:P:30:GLY:H	1.71	0.56
1:Q:99:PHE:O	1:Q:105:HIS:HE1	1.89	0.56
1:Q:104:SER:HB2	1:Q:177:MET:HE2	1.88	0.56
1:R:418:LYS:NZ	1:U:538:LEU:O	2.39	0.56
1:T:104:SER:HB2	1:T:177:MET:HE2	1.88	0.56
1:U:28:VAL:HG12	1:U:30:GLY:H	1.71	0.56
1:U:104:SER:HB2	1:U:177:MET:HE2	1.88	0.56
1:Y:28:VAL:HG12	1:Y:30:GLY:H	1.71	0.56
1:Y:99:PHE:O	1:Y:105:HIS:HE1	1.89	0.56
1:Y:104:SER:HB2	1:Y:177:MET:HE2	1.88	0.56
1:Z:538:LEU:O	1:4:418:LYS:NZ	2.39	0.56
1:d:99:PHE:O	1:d:105:HIS:HE1	1.89	0.56
1:g:383:TYR:HB3	1:g:390:TYR:HB3	1.88	0.56
1:q:68:ASN:ND2	1:q:71:LYS:O	2.39	0.56
1:s:28:VAL:HG12	1:s:30:GLY:H	1.71	0.56
1:u:386:ASN:O	1:u:387:GLN:HG2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:28:VAL:HG12	1:v:30:GLY:H	1.71	0.56
1:v:99:PHE:O	1:v:105:HIS:HE1	1.89	0.56
1:x:68:ASN:ND2	1:x:71:LYS:O	2.39	0.56
1:z:104:SER:HB2	1:z:177:MET:HE2	1.88	0.56
1:z:418:LYS:NZ	1:2:538:LEU:O	2.39	0.56
1:1:348:ASP:OD1	1:1:349:LEU:N	2.38	0.56
1:2:99:PHE:O	1:2:105:HIS:HE1	1.89	0.56
1:5:538:LEU:O	1:6:418:LYS:NZ	2.39	0.56
1:7:99:PHE:O	1:7:105:HIS:HE1	1.89	0.56
1:7:104:SER:HB2	1:7:177:MET:HE2	1.88	0.56
1:A:28:VAL:HG12	1:A:30:GLY:H	1.71	0.56
1:A:386:ASN:O	1:A:387:GLN:HG2	2.06	0.56
1:F:30:GLY:HA3	1:G:233:GLU:HG2	1.88	0.56
1:F:383:TYR:HB3	1:F:390:TYR:HB3	1.88	0.56
1:H:30:GLY:HA3	1:I:233:GLU:HG2	1.87	0.56
1:H:538:LEU:O	1:W:418:LYS:NZ	2.39	0.56
1:J:99:PHE:O	1:J:105:HIS:HE1	1.89	0.56
1:J:104:SER:HB2	1:J:177:MET:HE2	1.88	0.56
1:M:383:TYR:HB3	1:M:390:TYR:HB3	1.88	0.56
1:N:68:ASN:ND2	1:N:71:LYS:O	2.39	0.56
1:O:99:PHE:O	1:O:105:HIS:HE1	1.89	0.56
1:O:273:GLN:HG3	1:O:278:ALA:HA	1.87	0.56
1:P:383:TYR:HB3	1:P:390:TYR:HB3	1.88	0.56
1:T:28:VAL:HG12	1:T:30:GLY:H	1.71	0.56
1:U:175:ASP:CB	1:U:188:PHE:CZ	2.83	0.56
1:U:386:ASN:O	1:U:387:GLN:HG2	2.06	0.56
1:Z:104:SER:HB2	1:Z:177:MET:HE2	1.88	0.56
1:a:28:VAL:HG12	1:a:30:GLY:H	1.71	0.56
1:a:99:PHE:O	1:a:105:HIS:HE1	1.89	0.56
1:f:28:VAL:HG12	1:f:30:GLY:H	1.71	0.56
1:f:386:ASN:O	1:f:387:GLN:HG2	2.06	0.56
1:j:28:VAL:HG12	1:j:30:GLY:H	1.71	0.56
1:j:383:TYR:HB3	1:j:390:TYR:HB3	1.88	0.56
1:l:99:PHE:O	1:l:105:HIS:HE1	1.89	0.56
1:l:273:GLN:HG3	1:l:278:ALA:HA	1.87	0.56
1:m:104:SER:HB2	1:m:177:MET:HE2	1.88	0.56
1:n:99:PHE:O	1:n:105:HIS:HE1	1.89	0.56
1:s:99:PHE:O	1:s:105:HIS:HE1	1.89	0.56
1:s:104:SER:HB2	1:s:177:MET:HE2	1.88	0.56
1:s:386:ASN:O	1:s:387:GLN:HG2	2.06	0.56
1:t:233:GLU:HG2	1:y:30:GLY:HA3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:418:LYS:NZ	1:v:538:LEU:O	2.39	0.56
1:u:233:GLU:HG2	1:5:30:GLY:HA3	1.87	0.56
1:u:273:GLN:HG3	1:u:278:ALA:HA	1.87	0.56
1:v:104:SER:HB2	1:v:177:MET:HE2	1.88	0.56
1:v:233:GLU:HG2	1:1:30:GLY:HA3	1.88	0.56
1:w:418:LYS:NZ	1:y:538:LEU:O	2.39	0.56
1:x:99:PHE:O	1:x:105:HIS:HE1	1.89	0.56
1:y:348:ASP:OD1	1:y:349:LEU:N	2.38	0.56
1:2:406:ARG:HB2	1:2:531:LYS:HZ1	1.71	0.56
1:A:538:LEU:O	1:G:418:LYS:NZ	2.39	0.55
1:C:99:PHE:O	1:C:105:HIS:HE1	1.89	0.55
1:E:418:LYS:NZ	1:F:538:LEU:O	2.39	0.55
1:F:348:ASP:OD1	1:F:349:LEU:N	2.38	0.55
1:J:406:ARG:HB2	1:J:531:LYS:HZ1	1.72	0.55
1:M:410:THR:H	1:M:413:ASN:ND2	2.05	0.55
1:T:348:ASP:OD1	1:T:349:LEU:N	2.38	0.55
1:T:538:LEU:O	1:d:418:LYS:NZ	2.39	0.55
1:U:99:PHE:O	1:U:105:HIS:HE1	1.89	0.55
1:X:68:ASN:ND2	1:X:71:LYS:O	2.39	0.55
1:b:28:VAL:HG12	1:b:30:GLY:H	1.71	0.55
1:b:386:ASN:O	1:b:387:GLN:HG2	2.06	0.55
1:g:99:PHE:O	1:g:105:HIS:HE1	1.89	0.55
1:h:383:TYR:HB3	1:h:390:TYR:HB3	1.88	0.55
1:i:68:ASN:ND2	1:i:71:LYS:O	2.39	0.55
1:m:538:LEU:O	1:n:418:LYS:NZ	2.39	0.55
1:n:28:VAL:HG12	1:n:30:GLY:H	1.71	0.55
1:o:68:ASN:ND2	1:o:71:LYS:O	2.39	0.55
1:s:175:ASP:CB	1:s:188:PHE:CZ	2.83	0.55
1:v:386:ASN:O	1:v:387:GLN:HG2	2.06	0.55
1:y:383:TYR:HB3	1:y:390:TYR:HB3	1.88	0.55
1:2:104:SER:HB2	1:2:177:MET:HE2	1.88	0.55
1:2:383:TYR:HB3	1:2:390:TYR:HB3	1.88	0.55
1:3:28:VAL:HG12	1:3:30:GLY:H	1.71	0.55
1:3:99:PHE:O	1:3:105:HIS:HE1	1.89	0.55
1:A:233:GLU:HG2	1:B:30:GLY:HA3	1.89	0.55
1:C:386:ASN:O	1:C:387:GLN:HG2	2.06	0.55
1:D:348:ASP:OD1	1:D:349:LEU:N	2.38	0.55
1:E:273:GLN:HG3	1:E:278:ALA:HA	1.87	0.55
1:G:30:GLY:HA3	1:W:233:GLU:HG2	1.88	0.55
1:H:68:ASN:ND2	1:H:71:LYS:O	2.39	0.55
1:J:383:TYR:HB3	1:J:390:TYR:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:233:GLU:HG2	1:7:30:GLY:HA3	1.87	0.55
1:K:538:LEU:O	1:a:418:LYS:NZ	2.39	0.55
1:O:418:LYS:NZ	1:n:538:LEU:O	2.39	0.55
1:P:99:PHE:O	1:P:105:HIS:HE1	1.89	0.55
1:Q:348:ASP:OD1	1:Q:349:LEU:N	2.38	0.55
1:R:99:PHE:O	1:R:105:HIS:HE1	1.89	0.55
1:V:99:PHE:O	1:V:105:HIS:HE1	1.89	0.55
1:W:348:ASP:OD1	1:W:349:LEU:N	2.38	0.55
1:Z:410:THR:H	1:Z:413:ASN:ND2	2.05	0.55
1:b:68:ASN:ND2	1:b:71:LYS:O	2.39	0.55
1:c:175:ASP:CB	1:c:188:PHE:CZ	2.83	0.55
1:c:348:ASP:OD1	1:c:349:LEU:N	2.38	0.55
1:d:28:VAL:HG12	1:d:30:GLY:H	1.71	0.55
1:d:68:ASN:ND2	1:d:71:LYS:O	2.39	0.55
1:d:538:LEU:O	1:l:418:LYS:NZ	2.39	0.55
1:e:348:ASP:OD1	1:e:349:LEU:N	2.38	0.55
1:h:99:PHE:O	1:h:105:HIS:HE1	1.89	0.55
1:h:410:THR:H	1:h:413:ASN:ND2	2.05	0.55
1:m:28:VAL:HG12	1:m:30:GLY:H	1.71	0.55
1:m:68:ASN:ND2	1:m:71:LYS:O	2.39	0.55
1:m:348:ASP:OD1	1:m:349:LEU:N	2.38	0.55
1:o:273:GLN:HG3	1:o:278:ALA:HA	1.87	0.55
1:w:104:SER:HB2	1:w:177:MET:HE2	1.88	0.55
1:w:273:GLN:HG3	1:w:278:ALA:HA	1.87	0.55
1:x:348:ASP:OD1	1:x:349:LEU:N	2.38	0.55
1:z:538:LEU:O	1:1:418:LYS:NZ	2.39	0.55
1:3:418:LYS:NZ	1:4:538:LEU:O	2.39	0.55
1:4:348:ASP:OD1	1:4:349:LEU:N	2.38	0.55
1:5:68:ASN:ND2	1:5:71:LYS:O	2.39	0.55
1:8:104:SER:HB2	1:8:177:MET:HE2	1.88	0.55
1:B:104:SER:HB2	1:B:177:MET:HE3	1.89	0.55
1:B:233:GLU:HG2	1:C:30:GLY:HA3	1.87	0.55
1:C:68:ASN:ND2	1:C:71:LYS:O	2.39	0.55
1:C:418:LYS:NZ	1:M:538:LEU:O	2.39	0.55
1:C:538:LEU:O	1:b:418:LYS:NZ	2.39	0.55
1:E:104:SER:HB2	1:E:177:MET:HE2	1.88	0.55
1:H:28:VAL:HG12	1:H:30:GLY:H	1.71	0.55
1:I:273:GLN:HG3	1:I:278:ALA:HA	1.87	0.55
1:J:348:ASP:OD1	1:J:349:LEU:N	2.38	0.55
1:L:68:ASN:ND2	1:L:71:LYS:O	2.39	0.55
1:M:99:PHE:O	1:M:105:HIS:HE1	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:410:THR:H	1:O:413:ASN:HD22	1.55	0.55
1:P:348:ASP:OD1	1:P:349:LEU:N	2.38	0.55
1:T:68:ASN:ND2	1:T:71:LYS:O	2.39	0.55
1:X:273:GLN:HG3	1:X:278:ALA:HA	1.87	0.55
1:X:410:THR:H	1:X:413:ASN:ND2	2.05	0.55
1:Y:30:GLY:HA3	1:4:233:GLU:HG2	1.88	0.55
1:c:386:ASN:O	1:c:387:GLN:HG2	2.06	0.55
1:e:386:ASN:O	1:e:387:GLN:HG2	2.06	0.55
1:f:68:ASN:ND2	1:f:71:LYS:O	2.39	0.55
1:f:538:LEU:O	1:h:418:LYS:NZ	2.39	0.55
1:g:30:GLY:HA3	1:1:233:GLU:HG2	1.87	0.55
1:g:418:LYS:NZ	1:h:538:LEU:O	2.39	0.55
1:h:104:SER:HB2	1:h:177:MET:HE2	1.88	0.55
1:j:99:PHE:O	1:j:105:HIS:HE1	1.89	0.55
1:k:348:ASP:OD1	1:k:349:LEU:N	2.38	0.55
1:n:68:ASN:ND2	1:n:71:LYS:O	2.39	0.55
1:o:104:SER:HB2	1:o:177:MET:HE3	1.89	0.55
1:o:410:THR:H	1:o:413:ASN:ND2	2.05	0.55
1:p:99:PHE:O	1:p:105:HIS:HE1	1.89	0.55
1:q:99:PHE:O	1:q:105:HIS:HE1	1.89	0.55
1:t:30:GLY:HA3	1:6:233:GLU:HG2	1.88	0.55
1:z:68:ASN:ND2	1:z:71:LYS:O	2.39	0.55
1:2:348:ASP:OD1	1:2:349:LEU:N	2.38	0.55
1:5:386:ASN:O	1:5:387:GLN:HG2	2.06	0.55
1:6:348:ASP:OD1	1:6:349:LEU:N	2.38	0.55
1:A:410:THR:H	1:A:413:ASN:HD22	1.55	0.55
1:C:410:THR:H	1:C:413:ASN:HD22	1.55	0.55
1:E:99:PHE:O	1:E:105:HIS:HE1	1.89	0.55
1:F:28:VAL:HG12	1:F:30:GLY:H	1.71	0.55
1:H:104:SER:HB2	1:H:177:MET:HE3	1.89	0.55
1:H:233:GLU:HG2	1:Z:30:GLY:HA3	1.87	0.55
1:H:386:ASN:O	1:H:387:GLN:HG2	2.06	0.55
1:K:99:PHE:O	1:K:105:HIS:HE1	1.89	0.55
1:K:348:ASP:OD1	1:K:349:LEU:N	2.38	0.55
1:K:386:ASN:O	1:K:387:GLN:HG2	2.06	0.55
1:L:104:SER:HB2	1:L:177:MET:HE3	1.89	0.55
1:L:386:ASN:O	1:L:387:GLN:HG2	2.06	0.55
1:M:104:SER:HB2	1:M:177:MET:HE2	1.88	0.55
1:M:418:LYS:NZ	1:b:538:LEU:O	2.39	0.55
1:R:348:ASP:OD1	1:R:349:LEU:N	2.38	0.55
1:S:383:TYR:HB3	1:S:390:TYR:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:410:THR:H	1:V:413:ASN:ND2	2.05	0.55
1:W:383:TYR:HB3	1:W:390:TYR:HB3	1.88	0.55
1:X:99:PHE:O	1:X:105:HIS:HE1	1.89	0.55
1:X:104:SER:HB2	1:X:177:MET:HE3	1.89	0.55
1:Z:386:ASN:O	1:Z:387:GLN:HG2	2.06	0.55
1:Z:418:LYS:NZ	1:3:538:LEU:O	2.39	0.55
1:a:383:TYR:HB3	1:a:390:TYR:HB3	1.88	0.55
1:a:410:THR:H	1:a:413:ASN:ND2	2.05	0.55
1:e:68:ASN:ND2	1:e:71:LYS:O	2.39	0.55
1:f:418:LYS:NZ	1:g:538:LEU:O	2.39	0.55
1:g:386:ASN:O	1:g:387:GLN:HG2	2.06	0.55
1:g:410:THR:H	1:g:413:ASN:HD22	1.55	0.55
1:i:348:ASP:OD1	1:i:349:LEU:N	2.38	0.55
1:j:348:ASP:OD1	1:j:349:LEU:N	2.38	0.55
1:o:99:PHE:O	1:o:105:HIS:HE1	1.89	0.55
1:p:410:THR:H	1:p:413:ASN:ND2	2.05	0.55
1:r:383:TYR:HB3	1:r:390:TYR:HB3	1.88	0.55
1:v:410:THR:H	1:v:413:ASN:HD22	1.55	0.55
1:w:99:PHE:O	1:w:105:HIS:HE1	1.89	0.55
1:y:28:VAL:HG12	1:y:30:GLY:H	1.71	0.55
1:1:28:VAL:HG12	1:1:30:GLY:H	1.71	0.55
1:1:99:PHE:O	1:1:105:HIS:HE1	1.89	0.55
1:3:383:TYR:HB3	1:3:390:TYR:HB3	1.88	0.55
1:3:410:THR:H	1:3:413:ASN:ND2	2.05	0.55
1:5:104:SER:HB2	1:5:177:MET:HE3	1.89	0.55
1:7:410:THR:H	1:7:413:ASN:HD22	1.55	0.55
1:8:410:THR:H	1:8:413:ASN:ND2	2.05	0.55
1:B:28:VAL:HG12	1:B:30:GLY:H	1.71	0.55
1:C:410:THR:H	1:C:413:ASN:ND2	2.05	0.55
1:F:104:SER:HB2	1:F:177:MET:HE3	1.89	0.55
1:G:348:ASP:OD1	1:G:349:LEU:N	2.38	0.55
1:H:410:THR:H	1:H:413:ASN:HD22	1.55	0.55
1:J:273:GLN:HG3	1:J:278:ALA:HA	1.87	0.55
1:L:30:GLY:HA3	1:b:233:GLU:HG2	1.88	0.55
1:O:410:THR:H	1:O:413:ASN:ND2	2.05	0.55
1:R:28:VAL:HG12	1:R:30:GLY:H	1.71	0.55
1:Y:410:THR:H	1:Y:413:ASN:HD22	1.55	0.55
1:c:68:ASN:ND2	1:c:71:LYS:O	2.39	0.55
1:f:383:TYR:HB3	1:f:390:TYR:HB3	1.88	0.55
1:g:68:ASN:ND2	1:g:71:LYS:O	2.39	0.55
1:l:410:THR:H	1:l:413:ASN:HD22	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:28:VAL:HG12	1:q:30:GLY:H	1.71	0.55
1:q:348:ASP:OD1	1:q:349:LEU:N	2.38	0.55
1:y:104:SER:HB2	1:y:177:MET:HE3	1.89	0.55
1:z:233:GLU:HG2	1:4:30:GLY:HA3	1.88	0.55
1:z:386:ASN:O	1:z:387:GLN:HG2	2.06	0.55
1:1:104:SER:HB2	1:1:177:MET:HE3	1.89	0.55
1:4:99:PHE:O	1:4:105:HIS:HE1	1.89	0.55
1:4:386:ASN:O	1:4:387:GLN:HG2	2.06	0.55
1:5:28:VAL:HG12	1:5:30:GLY:H	1.71	0.55
1:5:410:THR:H	1:5:413:ASN:HD22	1.55	0.55
1:6:383:TYR:HB3	1:6:390:TYR:HB3	1.88	0.55
1:B:99:PHE:O	1:B:105:HIS:HE1	1.89	0.55
1:B:383:TYR:HB3	1:B:390:TYR:HB3	1.88	0.55
1:I:410:THR:H	1:I:413:ASN:HD22	1.55	0.55
1:N:348:ASP:OD1	1:N:349:LEU:N	2.38	0.55
1:P:273:GLN:HG3	1:P:278:ALA:HA	1.87	0.55
1:S:30:GLY:HA3	1:d:233:GLU:HG2	1.88	0.55
1:S:538:LEU:O	1:U:418:LYS:NZ	2.39	0.55
1:T:410:THR:H	1:T:413:ASN:ND2	2.05	0.55
1:V:68:ASN:OD1	1:V:73:ARG:NH2	2.40	0.55
1:W:294:MET:HE1	1:W:382:LEU:HD11	1.89	0.55
1:W:491:ARG:O	1:W:492:ARG:NH1	2.40	0.55
1:a:538:LEU:O	1:8:418:LYS:NZ	2.39	0.55
1:c:538:LEU:O	1:o:418:LYS:NZ	2.39	0.55
1:g:410:THR:H	1:g:413:ASN:ND2	2.05	0.55
1:l:410:THR:H	1:l:413:ASN:ND2	2.05	0.55
1:n:386:ASN:O	1:n:387:GLN:HG2	2.06	0.55
1:o:491:ARG:O	1:o:492:ARG:NH1	2.40	0.55
1:p:68:ASN:OD1	1:p:73:ARG:NH2	2.40	0.55
1:q:383:TYR:HB3	1:q:390:TYR:HB3	1.88	0.55
1:r:104:SER:HB2	1:r:177:MET:HE2	1.88	0.55
1:y:406:ARG:HB2	1:y:531:LYS:HZ1	1.72	0.55
1:z:104:SER:HB2	1:z:177:MET:HE3	1.89	0.55
1:1:383:TYR:HB3	1:1:390:TYR:HB3	1.88	0.55
1:2:273:GLN:HG3	1:2:278:ALA:HA	1.87	0.55
1:5:233:GLU:HG2	1:8:30:GLY:HA3	1.87	0.55
1:8:386:ASN:O	1:8:387:GLN:HG2	2.06	0.55
1:B:68:ASN:OD1	1:B:73:ARG:NH2	2.40	0.55
1:B:418:LYS:NZ	1:L:538:LEU:O	2.39	0.55
1:C:104:SER:HB2	1:C:177:MET:HE3	1.89	0.55
1:D:249:GLU:CG	1:D:536:LYS:HD3	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:386:ASN:O	1:E:387:GLN:HG2	2.06	0.55
1:F:249:GLU:CG	1:F:536:LYS:HD3	2.37	0.55
1:K:294:MET:HE1	1:K:382:LEU:HD11	1.89	0.55
1:N:28:VAL:HG12	1:N:30:GLY:H	1.71	0.55
1:N:383:TYR:HB3	1:N:390:TYR:HB3	1.88	0.55
1:Q:410:THR:H	1:Q:413:ASN:ND2	2.05	0.55
1:R:383:TYR:HB3	1:R:390:TYR:HB3	1.88	0.55
1:S:68:ASN:OD1	1:S:73:ARG:NH2	2.40	0.55
1:T:30:GLY:HA3	1:U:233:GLU:HG2	1.88	0.55
1:T:104:SER:HB2	1:T:177:MET:HE3	1.89	0.55
1:V:249:GLU:CG	1:V:536:LYS:HD3	2.37	0.55
1:X:418:LYS:NZ	1:e:538:LEU:O	2.39	0.55
1:X:491:ARG:O	1:X:492:ARG:NH1	2.40	0.55
1:b:383:TYR:HB3	1:b:390:TYR:HB3	1.88	0.55
1:c:491:ARG:O	1:c:492:ARG:NH1	2.40	0.55
1:d:273:GLN:HG3	1:d:278:ALA:HA	1.87	0.55
1:e:30:GLY:HA3	1:h:233:GLU:HG2	1.88	0.55
1:g:104:SER:HB2	1:g:177:MET:HE3	1.89	0.55
1:i:28:VAL:HG12	1:i:30:GLY:H	1.71	0.55
1:i:383:TYR:HB3	1:i:390:TYR:HB3	1.88	0.55
1:k:249:GLU:CG	1:k:536:LYS:HD3	2.37	0.55
1:k:386:ASN:O	1:k:387:GLN:HG2	2.06	0.55
1:m:30:GLY:HA3	1:s:233:GLU:HG2	1.88	0.55
1:m:410:THR:H	1:m:413:ASN:ND2	2.05	0.55
1:n:104:SER:HB2	1:n:177:MET:HE2	1.88	0.55
1:n:233:GLU:HG2	1:r:30:GLY:HA3	1.88	0.55
1:p:249:GLU:CG	1:p:536:LYS:HD3	2.37	0.55
1:r:68:ASN:OD1	1:r:73:ARG:NH2	2.40	0.55
1:r:538:LEU:O	1:s:418:LYS:NZ	2.39	0.55
1:t:273:GLN:HG3	1:t:278:ALA:HA	1.87	0.55
1:t:348:ASP:OD1	1:t:349:LEU:N	2.38	0.55
1:x:410:THR:H	1:x:413:ASN:ND2	2.05	0.55
1:y:249:GLU:CG	1:y:536:LYS:HD3	2.37	0.55
1:y:294:MET:HE1	1:y:382:LEU:HD11	1.89	0.55
1:z:249:GLU:CG	1:z:536:LYS:HD3	2.37	0.55
1:1:68:ASN:OD1	1:1:73:ARG:NH2	2.40	0.55
1:6:294:MET:HE1	1:6:382:LEU:HD11	1.89	0.55
1:6:410:THR:H	1:6:413:ASN:ND2	2.05	0.55
1:6:491:ARG:O	1:6:492:ARG:NH1	2.40	0.55
1:F:233:GLU:HG2	1:R:30:GLY:HA3	1.88	0.55
1:F:294:MET:HE1	1:F:382:LEU:HD11	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:273:GLN:HG3	1:G:278:ALA:HA	1.87	0.55
1:H:410:THR:H	1:H:413:ASN:ND2	2.05	0.55
1:H:418:LYS:NZ	1:Y:538:LEU:O	2.39	0.55
1:J:30:GLY:HA3	1:a:233:GLU:HG2	1.87	0.55
1:J:68:ASN:OD1	1:J:73:ARG:NH2	2.40	0.55
1:K:68:ASN:OD1	1:K:73:ARG:NH2	2.40	0.55
1:K:104:SER:HB2	1:K:177:MET:HE3	1.89	0.55
1:L:249:GLU:CG	1:L:536:LYS:HD3	2.37	0.55
1:R:410:THR:H	1:R:413:ASN:ND2	2.05	0.55
1:T:273:GLN:HG3	1:T:278:ALA:HA	1.87	0.55
1:U:294:MET:HE1	1:U:382:LEU:HD11	1.89	0.55
1:V:104:SER:HB2	1:V:177:MET:HE2	1.88	0.55
1:V:410:THR:H	1:V:413:ASN:HD22	1.55	0.55
1:W:68:ASN:OD1	1:W:73:ARG:NH2	2.40	0.55
1:W:410:THR:H	1:W:413:ASN:ND2	2.05	0.55
1:X:249:GLU:CG	1:X:536:LYS:HD3	2.37	0.55
1:Y:68:ASN:OD1	1:Y:73:ARG:NH2	2.40	0.55
1:b:410:THR:H	1:b:413:ASN:ND2	2.05	0.55
1:d:386:ASN:O	1:d:387:GLN:HG2	2.06	0.55
1:f:410:THR:H	1:f:413:ASN:ND2	2.05	0.55
1:i:99:PHE:O	1:i:105:HIS:HE1	1.89	0.55
1:j:68:ASN:ND2	1:j:71:LYS:O	2.39	0.55
1:j:273:GLN:HG3	1:j:278:ALA:HA	1.87	0.55
1:m:104:SER:HB2	1:m:177:MET:HE3	1.89	0.55
1:m:273:GLN:HG3	1:m:278:ALA:HA	1.87	0.55
1:n:273:GLN:HG3	1:n:278:ALA:HA	1.87	0.55
1:o:249:GLU:CG	1:o:536:LYS:HD3	2.37	0.55
1:q:30:GLY:HA3	1:y:233:GLU:HG2	1.88	0.55
1:q:410:THR:H	1:q:413:ASN:ND2	2.05	0.55
1:q:491:ARG:O	1:q:492:ARG:NH1	2.40	0.55
1:q:538:LEU:O	1:r:418:LYS:NZ	2.39	0.55
1:r:28:VAL:HG12	1:r:30:GLY:H	1.71	0.55
1:s:294:MET:HE1	1:s:382:LEU:HD11	1.89	0.55
1:w:386:ASN:O	1:w:387:GLN:HG2	2.06	0.55
1:z:406:ARG:HB2	1:z:531:LYS:HZ1	1.70	0.55
1:2:68:ASN:OD1	1:2:73:ARG:NH2	2.40	0.55
1:2:104:SER:HB2	1:2:177:MET:HE3	1.89	0.55
1:4:68:ASN:OD1	1:4:73:ARG:NH2	2.40	0.55
1:4:104:SER:HB2	1:4:177:MET:HE3	1.89	0.55
1:5:410:THR:H	1:5:413:ASN:ND2	2.05	0.55
1:5:418:LYS:NZ	1:7:538:LEU:O	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:68:ASN:OD1	1:6:73:ARG:NH2	2.40	0.55
1:6:104:SER:HB2	1:6:177:MET:HE2	1.88	0.55
1:7:68:ASN:OD1	1:7:73:ARG:NH2	2.40	0.55
1:D:386:ASN:O	1:D:387:GLN:HG2	2.06	0.55
1:G:68:ASN:OD1	1:G:73:ARG:NH2	2.40	0.55
1:H:68:ASN:OD1	1:H:73:ARG:NH2	2.40	0.55
1:J:104:SER:HB2	1:J:177:MET:HE3	1.89	0.55
1:J:386:ASN:O	1:J:387:GLN:HG2	2.06	0.55
1:J:410:THR:H	1:J:413:ASN:ND2	2.05	0.55
1:P:68:ASN:ND2	1:P:71:LYS:O	2.39	0.55
1:Q:491:ARG:O	1:Q:492:ARG:NH1	2.40	0.55
1:R:538:LEU:O	1:S:418:LYS:NZ	2.39	0.55
1:S:28:VAL:HG12	1:S:30:GLY:H	1.71	0.55
1:S:294:MET:HE1	1:S:382:LEU:HD11	1.89	0.55
1:W:104:SER:HB2	1:W:177:MET:HE2	1.88	0.55
1:X:104:SER:HB2	1:X:177:MET:HE2	1.88	0.55
1:Y:249:GLU:CG	1:Y:536:LYS:HD3	2.37	0.55
1:Z:68:ASN:OD1	1:Z:73:ARG:NH2	2.40	0.55
1:Z:410:THR:H	1:Z:413:ASN:HD22	1.55	0.55
1:a:68:ASN:ND2	1:a:71:LYS:O	2.39	0.55
1:b:99:PHE:O	1:b:105:HIS:HE1	1.89	0.55
1:b:104:SER:HB2	1:b:177:MET:HE3	1.89	0.55
1:d:104:SER:HB2	1:d:177:MET:HE2	1.88	0.55
1:f:99:PHE:O	1:f:105:HIS:HE1	1.90	0.55
1:i:294:MET:HE1	1:i:382:LEU:HD11	1.89	0.55
1:p:410:THR:H	1:p:413:ASN:HD22	1.55	0.55
1:r:410:THR:H	1:r:413:ASN:HD22	1.55	0.55
1:s:410:THR:H	1:s:413:ASN:ND2	2.05	0.55
1:t:68:ASN:OD1	1:t:73:ARG:NH2	2.40	0.55
1:u:410:THR:H	1:u:413:ASN:HD22	1.55	0.55
1:x:491:ARG:O	1:x:492:ARG:NH1	2.40	0.55
1:2:410:THR:H	1:2:413:ASN:ND2	2.05	0.55
1:4:294:MET:HE1	1:4:382:LEU:HD11	1.89	0.55
1:5:68:ASN:OD1	1:5:73:ARG:NH2	2.40	0.55
1:6:249:GLU:CG	1:6:536:LYS:HD3	2.37	0.55
1:7:249:GLU:CG	1:7:536:LYS:HD3	2.37	0.55
1:8:28:VAL:HG12	1:8:30:GLY:H	1.71	0.55
1:E:68:ASN:OD1	1:E:73:ARG:NH2	2.40	0.55
1:F:68:ASN:OD1	1:F:73:ARG:NH2	2.40	0.55
1:F:99:PHE:O	1:F:105:HIS:HE1	1.89	0.55
1:G:28:VAL:HG12	1:G:30:GLY:H	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:68:ASN:OD1	1:L:73:ARG:NH2	2.40	0.55
1:M:233:GLU:HG2	1:c:30:GLY:HA3	1.88	0.55
1:N:99:PHE:O	1:N:105:HIS:HE1	1.89	0.55
1:N:294:MET:HE1	1:N:382:LEU:HD11	1.89	0.55
1:N:410:THR:H	1:N:413:ASN:ND2	2.05	0.55
1:P:410:THR:H	1:P:413:ASN:HD22	1.55	0.55
1:R:68:ASN:OD1	1:R:73:ARG:NH2	2.40	0.55
1:R:491:ARG:O	1:R:492:ARG:NH1	2.40	0.55
1:T:249:GLU:CG	1:T:536:LYS:HD3	2.37	0.55
1:W:249:GLU:CG	1:W:536:LYS:HD3	2.37	0.55
1:Z:28:VAL:HG12	1:Z:30:GLY:H	1.71	0.55
1:a:68:ASN:OD1	1:a:73:ARG:NH2	2.40	0.55
1:b:294:MET:HE1	1:b:382:LEU:HD11	1.89	0.55
1:c:68:ASN:OD1	1:c:73:ARG:NH2	2.40	0.55
1:e:68:ASN:OD1	1:e:73:ARG:NH2	2.40	0.55
1:f:294:MET:HE1	1:f:382:LEU:HD11	1.89	0.55
1:i:410:THR:H	1:i:413:ASN:ND2	2.05	0.55
1:k:233:GLU:HG2	1:w:30:GLY:HA3	1.88	0.55
1:o:104:SER:HB2	1:o:177:MET:HE2	1.88	0.55
1:p:104:SER:HB2	1:p:177:MET:HE2	1.88	0.55
1:r:294:MET:HE1	1:r:382:LEU:HD11	1.89	0.55
1:y:68:ASN:OD1	1:y:73:ARG:NH2	2.40	0.55
1:z:68:ASN:OD1	1:z:73:ARG:NH2	2.40	0.55
1:2:249:GLU:CG	1:2:536:LYS:HD3	2.37	0.55
1:2:386:ASN:O	1:2:387:GLN:HG2	2.06	0.55
1:6:99:PHE:O	1:6:105:HIS:HE1	1.89	0.55
1:8:68:ASN:OD1	1:8:73:ARG:NH2	2.40	0.55
1:A:68:ASN:OD1	1:A:73:ARG:NH2	2.40	0.54
1:A:410:THR:H	1:A:413:ASN:ND2	2.05	0.54
1:B:294:MET:HE1	1:B:382:LEU:HD11	1.89	0.54
1:D:68:ASN:OD1	1:D:73:ARG:NH2	2.40	0.54
1:E:410:THR:H	1:E:413:ASN:ND2	2.05	0.54
1:F:406:ARG:HB2	1:F:531:LYS:HZ1	1.73	0.54
1:I:294:MET:HE1	1:I:382:LEU:HD11	1.89	0.54
1:I:410:THR:H	1:I:413:ASN:ND2	2.05	0.54
1:K:410:THR:H	1:K:413:ASN:ND2	2.05	0.54
1:N:104:SER:HB2	1:N:177:MET:HE3	1.89	0.54
1:O:104:SER:HB2	1:O:177:MET:HE3	1.89	0.54
1:S:410:THR:H	1:S:413:ASN:HD22	1.55	0.54
1:U:68:ASN:OD1	1:U:73:ARG:NH2	2.40	0.54
1:U:410:THR:H	1:U:413:ASN:ND2	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:99:PHE:O	1:W:105:HIS:HE1	1.89	0.54
1:W:406:ARG:HB2	1:W:531:LYS:HZ1	1.71	0.54
1:X:68:ASN:OD1	1:X:73:ARG:NH2	2.40	0.54
1:a:249:GLU:CG	1:a:536:LYS:HD3	2.37	0.54
1:b:249:GLU:CG	1:b:536:LYS:HD3	2.37	0.54
1:c:104:SER:HB2	1:c:177:MET:HE2	1.88	0.54
1:d:491:ARG:O	1:d:492:ARG:NH1	2.40	0.54
1:f:249:GLU:CG	1:f:536:LYS:HD3	2.37	0.54
1:i:410:THR:H	1:i:413:ASN:HD22	1.55	0.54
1:j:410:THR:H	1:j:413:ASN:HD22	1.55	0.54
1:l:68:ASN:OD1	1:l:73:ARG:NH2	2.40	0.54
1:l:104:SER:HB2	1:l:177:MET:HE3	1.89	0.54
1:m:99:PHE:O	1:m:105:HIS:HE1	1.89	0.54
1:m:249:GLU:CG	1:m:536:LYS:HD3	2.37	0.54
1:m:410:THR:H	1:m:413:ASN:HD22	1.55	0.54
1:o:68:ASN:OD1	1:o:73:ARG:NH2	2.40	0.54
1:t:28:VAL:HG12	1:t:30:GLY:H	1.71	0.54
1:v:68:ASN:OD1	1:v:73:ARG:NH2	2.40	0.54
1:w:68:ASN:OD1	1:w:73:ARG:NH2	2.40	0.54
1:y:99:PHE:O	1:y:105:HIS:HE1	1.89	0.54
1:1:294:MET:HE1	1:1:382:LEU:HD11	1.89	0.54
1:3:68:ASN:ND2	1:3:71:LYS:O	2.39	0.54
1:3:68:ASN:OD1	1:3:73:ARG:NH2	2.40	0.54
1:3:249:GLU:CG	1:3:536:LYS:HD3	2.37	0.54
1:5:99:PHE:O	1:5:105:HIS:HE1	1.89	0.54
1:7:410:THR:H	1:7:413:ASN:ND2	2.05	0.54
1:A:273:GLN:HG3	1:A:278:ALA:HA	1.87	0.54
1:C:348:ASP:OD1	1:C:349:LEU:N	2.38	0.54
1:D:233:GLU:HG2	1:E:30:GLY:HA3	1.88	0.54
1:D:410:THR:H	1:D:413:ASN:ND2	2.05	0.54
1:G:104:SER:HB2	1:G:177:MET:HE3	1.89	0.54
1:I:68:ASN:ND2	1:I:71:LYS:O	2.39	0.54
1:K:249:GLU:CG	1:K:536:LYS:HD3	2.37	0.54
1:M:104:SER:HB2	1:M:177:MET:HE3	1.89	0.54
1:N:410:THR:H	1:N:413:ASN:HD22	1.55	0.54
1:O:68:ASN:OD1	1:O:73:ARG:NH2	2.40	0.54
1:S:68:ASN:ND2	1:S:71:LYS:O	2.39	0.54
1:T:99:PHE:O	1:T:105:HIS:HE1	1.89	0.54
1:T:410:THR:H	1:T:413:ASN:HD22	1.55	0.54
1:W:64:VAL:HG22	1:W:187:LEU:HD12	1.90	0.54
1:W:410:THR:H	1:W:413:ASN:HD22	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:410:THR:H	1:Y:413:ASN:ND2	2.05	0.54
1:a:104:SER:HB2	1:a:177:MET:HE2	1.88	0.54
1:c:410:THR:H	1:c:413:ASN:ND2	2.05	0.54
1:e:410:THR:H	1:e:413:ASN:ND2	2.05	0.54
1:g:68:ASN:OD1	1:g:73:ARG:NH2	2.40	0.54
1:g:294:MET:HE1	1:g:382:LEU:HD11	1.89	0.54
1:h:104:SER:HB2	1:h:177:MET:HE3	1.89	0.54
1:i:104:SER:HB2	1:i:177:MET:HE3	1.89	0.54
1:j:410:THR:H	1:j:413:ASN:ND2	2.05	0.54
1:k:68:ASN:OD1	1:k:73:ARG:NH2	2.40	0.54
1:k:410:THR:H	1:k:413:ASN:ND2	2.05	0.54
1:r:68:ASN:ND2	1:r:71:LYS:O	2.39	0.54
1:r:99:PHE:O	1:r:105:HIS:HE1	1.89	0.54
1:s:68:ASN:OD1	1:s:73:ARG:NH2	2.40	0.54
1:t:99:PHE:O	1:t:105:HIS:HE1	1.89	0.54
1:u:294:MET:HE1	1:u:382:LEU:HD11	1.89	0.54
1:v:410:THR:H	1:v:413:ASN:ND2	2.05	0.54
1:w:410:THR:H	1:w:413:ASN:ND2	2.05	0.54
1:x:249:GLU:CG	1:x:536:LYS:HD3	2.37	0.54
1:z:99:PHE:O	1:z:105:HIS:HE1	1.89	0.54
1:1:538:LEU:O	1:2:418:LYS:NZ	2.39	0.54
1:2:410:THR:H	1:2:413:ASN:HD22	1.55	0.54
1:4:64:VAL:HG22	1:4:187:LEU:HD12	1.90	0.54
1:4:249:GLU:CG	1:4:536:LYS:HD3	2.37	0.54
1:4:410:THR:H	1:4:413:ASN:ND2	2.05	0.54
1:5:249:GLU:CG	1:5:536:LYS:HD3	2.37	0.54
1:6:64:VAL:HG22	1:6:187:LEU:HD12	1.90	0.54
1:6:410:THR:H	1:6:413:ASN:HD22	1.55	0.54
1:8:410:THR:H	1:8:413:ASN:HD22	1.55	0.54
1:A:64:VAL:HG22	1:A:187:LEU:HD12	1.90	0.54
1:A:104:SER:HB2	1:A:177:MET:HE3	1.89	0.54
1:C:68:ASN:OD1	1:C:73:ARG:NH2	2.40	0.54
1:C:294:MET:HE1	1:C:382:LEU:HD11	1.89	0.54
1:D:99:PHE:O	1:D:105:HIS:HE1	1.89	0.54
1:F:410:THR:H	1:F:413:ASN:HD22	1.55	0.54
1:G:99:PHE:O	1:G:105:HIS:HE1	1.89	0.54
1:H:99:PHE:O	1:H:105:HIS:HE1	1.89	0.54
1:H:249:GLU:CG	1:H:536:LYS:HD3	2.37	0.54
1:I:249:GLU:CG	1:I:536:LYS:HD3	2.37	0.54
1:J:249:GLU:CG	1:J:536:LYS:HD3	2.37	0.54
1:J:410:THR:H	1:J:413:ASN:HD22	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:104:SER:HB2	1:O:177:MET:HE2	1.88	0.54
1:P:68:ASN:OD1	1:P:73:ARG:NH2	2.40	0.54
1:Q:249:GLU:CG	1:Q:536:LYS:HD3	2.37	0.54
1:R:104:SER:HB2	1:R:177:MET:HE2	1.88	0.54
1:S:99:PHE:O	1:S:105:HIS:HE1	1.89	0.54
1:S:249:GLU:CG	1:S:536:LYS:HD3	2.37	0.54
1:Z:99:PHE:O	1:Z:105:HIS:HE1	1.89	0.54
1:Z:249:GLU:CG	1:Z:536:LYS:HD3	2.37	0.54
1:c:99:PHE:O	1:c:105:HIS:HE1	1.90	0.54
1:f:104:SER:HB2	1:f:177:MET:HE3	1.89	0.54
1:j:68:ASN:OD1	1:j:73:ARG:NH2	2.40	0.54
1:k:99:PHE:O	1:k:105:HIS:HE1	1.89	0.54
1:l:64:VAL:HG22	1:l:187:LEU:HD12	1.90	0.54
1:l:104:SER:HB2	1:l:177:MET:HE2	1.88	0.54
1:n:406:ARG:HB2	1:n:531:LYS:HZ1	1.72	0.54
1:n:491:ARG:O	1:n:492:ARG:NH1	2.40	0.54
1:q:68:ASN:OD1	1:q:73:ARG:NH2	2.40	0.54
1:r:249:GLU:CG	1:r:536:LYS:HD3	2.37	0.54
1:u:68:ASN:ND2	1:u:71:LYS:O	2.39	0.54
1:v:64:VAL:HG22	1:v:187:LEU:HD12	1.90	0.54
1:v:273:GLN:HG3	1:v:278:ALA:HA	1.87	0.54
1:z:64:VAL:HG22	1:z:187:LEU:HD12	1.90	0.54
1:4:68:ASN:ND2	1:4:71:LYS:O	2.39	0.54
1:A:491:ARG:O	1:A:492:ARG:NH1	2.40	0.54
1:D:64:VAL:HG22	1:D:187:LEU:HD12	1.90	0.54
1:I:68:ASN:OD1	1:I:73:ARG:NH2	2.40	0.54
1:K:64:VAL:HG22	1:K:187:LEU:HD12	1.90	0.54
1:L:64:VAL:HG22	1:L:187:LEU:HD12	1.90	0.54
1:L:99:PHE:O	1:L:105:HIS:HE1	1.89	0.54
1:O:64:VAL:HG22	1:O:187:LEU:HD12	1.90	0.54
1:P:104:SER:HB2	1:P:177:MET:HE3	1.89	0.54
1:P:410:THR:H	1:P:413:ASN:ND2	2.05	0.54
1:Q:410:THR:H	1:Q:413:ASN:HD22	1.55	0.54
1:R:410:THR:H	1:R:413:ASN:HD22	1.55	0.54
1:Y:104:SER:HB2	1:Y:177:MET:HE3	1.89	0.54
1:a:410:THR:H	1:a:413:ASN:HD22	1.55	0.54
1:d:406:ARG:HB2	1:d:531:LYS:HZ1	1.71	0.54
1:e:104:SER:HB2	1:e:177:MET:HE2	1.88	0.54
1:j:104:SER:HB2	1:j:177:MET:HE3	1.89	0.54
1:q:104:SER:HB2	1:q:177:MET:HE2	1.88	0.54
1:t:104:SER:HB2	1:t:177:MET:HE3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:99:PHE:O	1:u:105:HIS:HE1	1.89	0.54
1:u:249:GLU:CG	1:u:536:LYS:HD3	2.37	0.54
1:u:348:ASP:OD1	1:u:349:LEU:N	2.38	0.54
1:u:410:THR:H	1:u:413:ASN:ND2	2.05	0.54
1:v:491:ARG:O	1:v:492:ARG:NH1	2.40	0.54
1:y:410:THR:H	1:y:413:ASN:ND2	2.05	0.54
1:y:410:THR:H	1:y:413:ASN:HD22	1.55	0.54
1:1:410:THR:H	1:1:413:ASN:ND2	2.05	0.54
1:3:104:SER:HB2	1:3:177:MET:HE2	1.88	0.54
1:7:64:VAL:HG22	1:7:187:LEU:HD12	1.90	0.54
1:8:99:PHE:O	1:8:105:HIS:HE1	1.89	0.54
1:8:249:GLU:CG	1:8:536:LYS:HD3	2.37	0.54
1:B:410:THR:H	1:B:413:ASN:ND2	2.05	0.54
1:F:104:SER:HB2	1:F:177:MET:HE2	1.88	0.54
1:I:99:PHE:O	1:I:105:HIS:HE1	1.89	0.54
1:J:64:VAL:HG22	1:J:187:LEU:HD12	1.90	0.54
1:K:68:ASN:ND2	1:K:71:LYS:O	2.39	0.54
1:M:294:MET:HE1	1:M:382:LEU:HD11	1.89	0.54
1:T:175:ASP:CB	1:T:188:PHE:CZ	2.83	0.54
1:V:64:VAL:HG22	1:V:187:LEU:HD12	1.90	0.54
1:Y:64:VAL:HG22	1:Y:187:LEU:HD12	1.90	0.54
1:Y:383:TYR:HB3	1:Y:390:TYR:HB3	1.88	0.54
1:b:64:VAL:HG22	1:b:187:LEU:HD12	1.90	0.54
1:e:99:PHE:O	1:e:105:HIS:HE1	1.90	0.54
1:f:64:VAL:HG22	1:f:187:LEU:HD12	1.90	0.54
1:h:294:MET:HE1	1:h:382:LEU:HD11	1.89	0.54
1:k:64:VAL:HG22	1:k:187:LEU:HD12	1.90	0.54
1:m:68:ASN:OD1	1:m:73:ARG:NH2	2.40	0.54
1:n:104:SER:HB2	1:n:177:MET:HE3	1.89	0.54
1:o:383:TYR:HB3	1:o:390:TYR:HB3	1.88	0.54
1:p:64:VAL:HG22	1:p:187:LEU:HD12	1.90	0.54
1:p:406:ARG:HB2	1:p:531:LYS:HZ1	1.73	0.54
1:s:104:SER:HB2	1:s:177:MET:HE3	1.89	0.54
1:u:68:ASN:OD1	1:u:73:ARG:NH2	2.40	0.54
1:v:104:SER:HB2	1:v:177:MET:HE3	1.89	0.54
1:x:410:THR:H	1:x:413:ASN:HD22	1.55	0.54
1:z:410:THR:H	1:z:413:ASN:ND2	2.05	0.54
1:7:104:SER:HB2	1:7:177:MET:HE3	1.89	0.54
1:7:383:TYR:HB3	1:7:390:TYR:HB3	1.88	0.54
1:E:104:SER:HB2	1:E:177:MET:HE3	1.89	0.54
1:F:410:THR:H	1:F:413:ASN:ND2	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:64:VAL:HG22	1:H:187:LEU:HD12	1.90	0.54
1:J:294:MET:HE1	1:J:382:LEU:HD11	1.89	0.54
1:L:406:ARG:HB2	1:L:531:LYS:HZ1	1.71	0.54
1:N:406:ARG:HB2	1:N:531:LYS:HZ1	1.73	0.54
1:O:294:MET:HE1	1:O:382:LEU:HD11	1.89	0.54
1:T:68:ASN:OD1	1:T:73:ARG:NH2	2.40	0.54
1:Z:294:MET:HE1	1:Z:382:LEU:HD11	1.89	0.54
1:d:68:ASN:OD1	1:d:73:ARG:NH2	2.40	0.54
1:d:383:TYR:HB3	1:d:390:TYR:HB3	1.88	0.54
1:i:406:ARG:HB2	1:i:531:LYS:HZ1	1.73	0.54
1:l:294:MET:HE1	1:l:382:LEU:HD11	1.89	0.54
1:n:249:GLU:CG	1:n:536:LYS:HD3	2.37	0.54
1:q:249:GLU:CG	1:q:536:LYS:HD3	2.37	0.54
1:q:410:THR:H	1:q:413:ASN:HD22	1.55	0.54
1:t:249:GLU:CG	1:t:536:LYS:HD3	2.37	0.54
1:w:104:SER:HB2	1:w:177:MET:HE3	1.89	0.54
1:w:249:GLU:CG	1:w:536:LYS:HD3	2.37	0.54
1:2:64:VAL:HG22	1:2:187:LEU:HD12	1.90	0.54
1:7:491:ARG:O	1:7:492:ARG:NH1	2.40	0.54
1:8:68:ASN:ND2	1:8:71:LYS:O	2.39	0.54
1:B:249:GLU:CG	1:B:536:LYS:HD3	2.37	0.54
1:C:249:GLU:CG	1:C:536:LYS:HD3	2.37	0.54
1:E:249:GLU:CG	1:E:536:LYS:HD3	2.37	0.54
1:G:249:GLU:CG	1:G:536:LYS:HD3	2.37	0.54
1:L:410:THR:H	1:L:413:ASN:ND2	2.05	0.54
1:O:406:ARG:HB2	1:O:531:LYS:HZ1	1.73	0.54
1:R:249:GLU:CG	1:R:536:LYS:HD3	2.37	0.54
1:U:104:SER:HB2	1:U:177:MET:HE3	1.89	0.54
1:X:294:MET:HE1	1:X:382:LEU:HD11	1.89	0.54
1:X:410:THR:H	1:X:413:ASN:HD22	1.55	0.54
1:d:104:SER:HB2	1:d:177:MET:HE3	1.89	0.54
1:d:249:GLU:CG	1:d:536:LYS:HD3	2.37	0.54
1:e:64:VAL:HG22	1:e:187:LEU:HD12	1.90	0.54
1:e:249:GLU:CG	1:e:536:LYS:HD3	2.37	0.54
1:f:410:THR:H	1:f:413:ASN:HD22	1.55	0.54
1:g:249:GLU:CG	1:g:536:LYS:HD3	2.37	0.54
1:i:68:ASN:OD1	1:i:73:ARG:NH2	2.40	0.54
1:m:175:ASP:CB	1:m:188:PHE:CZ	2.83	0.54
1:n:383:TYR:HB3	1:n:390:TYR:HB3	1.88	0.54
1:n:410:THR:H	1:n:413:ASN:ND2	2.05	0.54
1:o:294:MET:HE1	1:o:382:LEU:HD11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:294:MET:HE1	1:q:382:LEU:HD11	1.89	0.54
1:w:68:ASN:ND2	1:w:71:LYS:O	2.39	0.54
1:y:104:SER:HB2	1:y:177:MET:HE2	1.88	0.54
1:2:30:GLY:HA3	1:3:233:GLU:HG2	1.88	0.54
1:2:294:MET:HE1	1:2:382:LEU:HD11	1.89	0.54
1:3:410:THR:H	1:3:413:ASN:HD22	1.55	0.54
1:4:491:ARG:O	1:4:492:ARG:NH1	2.40	0.54
1:5:64:VAL:HG22	1:5:187:LEU:HD12	1.90	0.54
1:5:294:MET:HE1	1:5:382:LEU:HD11	1.89	0.54
1:8:294:MET:HE1	1:8:382:LEU:HD11	1.89	0.54
1:B:410:THR:H	1:B:413:ASN:HD22	1.55	0.54
1:D:68:ASN:ND2	1:D:71:LYS:O	2.39	0.54
1:E:68:ASN:ND2	1:E:71:LYS:O	2.39	0.54
1:H:294:MET:HE1	1:H:382:LEU:HD11	1.89	0.54
1:K:491:ARG:O	1:K:492:ARG:NH1	2.40	0.54
1:N:68:ASN:OD1	1:N:73:ARG:NH2	2.40	0.54
1:P:64:VAL:HG22	1:P:187:LEU:HD12	1.90	0.54
1:Q:383:TYR:HB3	1:Q:390:TYR:HB3	1.88	0.54
1:R:294:MET:HE1	1:R:382:LEU:HD11	1.89	0.54
1:X:233:GLU:HG2	1:f:30:GLY:HA3	1.88	0.54
1:X:383:TYR:HB3	1:X:390:TYR:HB3	1.88	0.54
1:Z:68:ASN:ND2	1:Z:71:LYS:O	2.39	0.54
1:b:30:GLY:HA3	1:o:233:GLU:HG2	1.88	0.54
1:b:68:ASN:OD1	1:b:73:ARG:NH2	2.40	0.54
1:b:410:THR:H	1:b:413:ASN:HD22	1.55	0.54
1:c:64:VAL:HG22	1:c:187:LEU:HD12	1.90	0.54
1:f:68:ASN:OD1	1:f:73:ARG:NH2	2.40	0.54
1:g:104:SER:HB2	1:g:177:MET:HE2	1.88	0.54
1:k:68:ASN:ND2	1:k:71:LYS:O	2.39	0.54
1:l:68:ASN:ND2	1:l:71:LYS:O	2.39	0.54
1:n:68:ASN:OD1	1:n:73:ARG:NH2	2.40	0.54
1:r:104:SER:HB2	1:r:177:MET:HE3	1.89	0.54
1:s:249:GLU:CG	1:s:536:LYS:HD3	2.37	0.54
1:w:64:VAL:HG22	1:w:187:LEU:HD12	1.90	0.54
1:1:104:SER:HB2	1:1:177:MET:HE2	1.88	0.54
1:6:406:ARG:HB2	1:6:531:LYS:HZ1	1.72	0.54
1:B:104:SER:HB2	1:B:177:MET:HE2	1.88	0.54
1:B:538:LEU:O	1:J:418:LYS:NZ	2.40	0.54
1:C:104:SER:HB2	1:C:177:MET:HE2	1.88	0.54
1:D:104:SER:HB2	1:D:177:MET:HE2	1.88	0.54
1:E:64:VAL:HG22	1:E:187:LEU:HD12	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:64:VAL:HG22	1:F:187:LEU:HD12	1.90	0.54
1:G:410:THR:H	1:G:413:ASN:ND2	2.05	0.54
1:R:64:VAL:HG22	1:R:187:LEU:HD12	1.90	0.54
1:S:104:SER:HB2	1:S:177:MET:HE3	1.89	0.54
1:T:64:VAL:HG22	1:T:187:LEU:HD12	1.90	0.54
1:U:249:GLU:CG	1:U:536:LYS:HD3	2.37	0.54
1:V:294:MET:HE1	1:V:382:LEU:HD11	1.89	0.54
1:Z:104:SER:HB2	1:Z:177:MET:HE3	1.89	0.54
1:c:249:GLU:CG	1:c:536:LYS:HD3	2.37	0.54
1:d:410:THR:H	1:d:413:ASN:ND2	2.05	0.54
1:h:68:ASN:OD1	1:h:73:ARG:NH2	2.40	0.54
1:h:249:GLU:CG	1:h:536:LYS:HD3	2.37	0.54
1:j:64:VAL:HG22	1:j:187:LEU:HD12	1.90	0.54
1:l:249:GLU:CG	1:l:536:LYS:HD3	2.37	0.54
1:o:410:THR:H	1:o:413:ASN:HD22	1.55	0.54
1:q:64:VAL:HG22	1:q:187:LEU:HD12	1.90	0.54
1:u:104:SER:HB2	1:u:177:MET:HE3	1.89	0.54
1:x:294:MET:HE1	1:x:382:LEU:HD11	1.89	0.54
1:1:249:GLU:CG	1:1:536:LYS:HD3	2.37	0.54
1:1:410:THR:H	1:1:413:ASN:HD22	1.55	0.54
1:8:64:VAL:HG22	1:8:187:LEU:HD12	1.90	0.54
1:C:64:VAL:HG22	1:C:187:LEU:HD12	1.90	0.54
1:G:410:THR:H	1:G:413:ASN:HD22	1.55	0.54
1:G:491:ARG:O	1:G:492:ARG:NH1	2.40	0.54
1:I:104:SER:HB2	1:I:177:MET:HE3	1.89	0.54
1:J:491:ARG:O	1:J:492:ARG:NH1	2.40	0.54
1:L:294:MET:HE1	1:L:382:LEU:HD11	1.89	0.54
1:O:68:ASN:ND2	1:O:71:LYS:O	2.39	0.54
1:O:249:GLU:CG	1:O:536:LYS:HD3	2.37	0.54
1:P:249:GLU:CG	1:P:536:LYS:HD3	2.37	0.54
1:T:294:MET:HE1	1:T:382:LEU:HD11	1.89	0.54
1:Z:64:VAL:HG22	1:Z:187:LEU:HD12	1.90	0.54
1:g:64:VAL:HG22	1:g:187:LEU:HD12	1.90	0.54
1:j:249:GLU:CG	1:j:536:LYS:HD3	2.37	0.54
1:m:64:VAL:HG22	1:m:187:LEU:HD12	1.90	0.54
1:p:294:MET:HE1	1:p:382:LEU:HD11	1.89	0.54
1:t:68:ASN:ND2	1:t:71:LYS:O	2.39	0.54
1:t:410:THR:H	1:t:413:ASN:ND2	2.05	0.54
1:y:64:VAL:HG22	1:y:187:LEU:HD12	1.90	0.54
1:2:491:ARG:O	1:2:492:ARG:NH1	2.40	0.54
1:8:104:SER:HB2	1:8:177:MET:HE3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:175:ASP:HB3	1:A:188:PHE:CD2	2.44	0.53
1:B:491:ARG:O	1:B:492:ARG:NH1	2.40	0.53
1:D:294:MET:HE1	1:D:382:LEU:HD11	1.89	0.53
1:G:68:ASN:ND2	1:G:71:LYS:O	2.39	0.53
1:M:68:ASN:OD1	1:M:73:ARG:NH2	2.40	0.53
1:M:249:GLU:CG	1:M:536:LYS:HD3	2.37	0.53
1:P:294:MET:HE1	1:P:382:LEU:HD11	1.89	0.53
1:Q:68:ASN:OD1	1:Q:73:ARG:NH2	2.40	0.53
1:Q:294:MET:HE1	1:Q:382:LEU:HD11	1.89	0.53
1:W:104:SER:HB2	1:W:177:MET:HE3	1.89	0.53
1:a:104:SER:HB2	1:a:177:MET:HE3	1.89	0.53
1:k:104:SER:HB2	1:k:177:MET:HE2	1.88	0.53
1:l:406:ARG:HB2	1:l:531:LYS:HZ1	1.73	0.53
1:m:294:MET:HE1	1:m:382:LEU:HD11	1.89	0.53
1:q:406:ARG:HB2	1:q:531:LYS:HZ1	1.73	0.53
1:v:175:ASP:HB3	1:v:188:PHE:CD2	2.44	0.53
1:x:68:ASN:OD1	1:x:73:ARG:NH2	2.40	0.53
1:x:383:TYR:HB3	1:x:390:TYR:HB3	1.88	0.53
1:z:410:THR:H	1:z:413:ASN:HD22	1.55	0.53
1:1:491:ARG:O	1:1:492:ARG:NH1	2.40	0.53
1:E:294:MET:HE1	1:E:382:LEU:HD11	1.89	0.53
1:L:410:THR:H	1:L:413:ASN:HD22	1.55	0.53
1:U:410:THR:H	1:U:413:ASN:HD22	1.55	0.53
1:U:491:ARG:O	1:U:492:ARG:NH1	2.40	0.53
1:d:294:MET:HE1	1:d:382:LEU:HD11	1.89	0.53
1:e:104:SER:HB2	1:e:177:MET:HE3	1.89	0.53
1:j:294:MET:HE1	1:j:382:LEU:HD11	1.89	0.53
1:k:294:MET:HE1	1:k:382:LEU:HD11	1.89	0.53
1:t:410:THR:H	1:t:413:ASN:HD22	1.55	0.53
1:t:491:ARG:O	1:t:492:ARG:NH1	2.40	0.53
1:v:68:ASN:ND2	1:v:71:LYS:O	2.39	0.53
1:v:249:GLU:CG	1:v:536:LYS:HD3	2.37	0.53
1:z:294:MET:HE1	1:z:382:LEU:HD11	1.89	0.53
1:3:104:SER:HB2	1:3:177:MET:HE3	1.89	0.53
1:L:175:ASP:HB3	1:L:188:PHE:CD2	2.44	0.53
1:M:406:ARG:HB2	1:M:531:LYS:HZ1	1.73	0.53
1:N:175:ASP:HB3	1:N:188:PHE:CD2	2.44	0.53
1:T:175:ASP:HB3	1:T:188:PHE:CD2	2.44	0.53
1:V:104:SER:HB2	1:V:177:MET:HE3	1.89	0.53
1:W:175:ASP:HB3	1:W:188:PHE:CD2	2.44	0.53
1:c:104:SER:HB2	1:c:177:MET:HE3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:406:ARG:HB2	1:h:531:LYS:HZ1	1.73	0.53
1:i:175:ASP:HB3	1:i:188:PHE:CD2	2.44	0.53
1:m:175:ASP:HB3	1:m:188:PHE:CD2	2.44	0.53
1:n:294:MET:HE1	1:n:382:LEU:HD11	1.89	0.53
1:s:410:THR:H	1:s:413:ASN:HD22	1.55	0.53
1:s:491:ARG:O	1:s:492:ARG:NH1	2.40	0.53
1:w:294:MET:HE1	1:w:382:LEU:HD11	1.89	0.53
1:x:175:ASP:HB3	1:x:188:PHE:CD2	2.44	0.53
1:1:64:VAL:HG22	1:1:187:LEU:HD12	1.90	0.53
1:6:104:SER:HB2	1:6:177:MET:HE3	1.89	0.53
1:A:68:ASN:ND2	1:A:71:LYS:O	2.39	0.53
1:A:249:GLU:CG	1:A:536:LYS:HD3	2.37	0.53
1:B:64:VAL:HG22	1:B:187:LEU:HD12	1.90	0.53
1:D:104:SER:HB2	1:D:177:MET:HE3	1.89	0.53
1:F:175:ASP:HB3	1:F:188:PHE:CD2	2.44	0.53
1:I:64:VAL:HG22	1:I:187:LEU:HD12	1.90	0.53
1:M:175:ASP:HB3	1:M:188:PHE:CD2	2.44	0.53
1:Q:104:SER:HB2	1:Q:177:MET:HE3	1.89	0.53
1:Q:175:ASP:HB3	1:Q:188:PHE:CD2	2.44	0.53
1:a:294:MET:HE1	1:a:382:LEU:HD11	1.89	0.53
1:b:406:ARG:HB2	1:b:531:LYS:HZ1	1.73	0.53
1:c:410:THR:H	1:c:413:ASN:HD22	1.55	0.53
1:f:406:ARG:HB2	1:f:531:LYS:HZ1	1.73	0.53
1:r:410:THR:H	1:r:413:ASN:ND2	2.05	0.53
1:u:64:VAL:HG22	1:u:187:LEU:HD12	1.90	0.53
1:v:294:MET:HE1	1:v:382:LEU:HD11	1.89	0.53
1:x:104:SER:HB2	1:x:177:MET:HE3	1.89	0.53
1:y:175:ASP:HB3	1:y:188:PHE:CD2	2.44	0.53
1:z:175:ASP:HB3	1:z:188:PHE:CD2	2.44	0.53
1:3:64:VAL:HG22	1:3:187:LEU:HD12	1.90	0.53
1:6:175:ASP:HB3	1:6:188:PHE:CD2	2.44	0.53
1:A:294:MET:HE1	1:A:382:LEU:HD11	1.89	0.53
1:C:175:ASP:HB3	1:C:188:PHE:CD2	2.44	0.53
1:D:491:ARG:O	1:D:492:ARG:NH1	2.40	0.53
1:H:175:ASP:HB3	1:H:188:PHE:CD2	2.44	0.53
1:T:406:ARG:HB2	1:T:531:LYS:HZ1	1.74	0.53
1:X:64:VAL:HG22	1:X:187:LEU:HD12	1.90	0.53
1:Y:294:MET:HE1	1:Y:382:LEU:HD11	1.89	0.53
1:Z:175:ASP:HB3	1:Z:188:PHE:CD2	2.44	0.53
1:a:64:VAL:HG22	1:a:187:LEU:HD12	1.90	0.53
1:c:294:MET:HE1	1:c:382:LEU:HD11	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:175:ASP:HB3	1:g:188:PHE:CD2	2.44	0.53
1:k:104:SER:HB2	1:k:177:MET:HE3	1.89	0.53
1:m:406:ARG:HB2	1:m:531:LYS:HZ1	1.74	0.53
1:n:64:VAL:HG22	1:n:187:LEU:HD12	1.90	0.53
1:o:64:VAL:HG22	1:o:187:LEU:HD12	1.90	0.53
1:p:104:SER:HB2	1:p:177:MET:HE3	1.89	0.53
1:8:175:ASP:HB3	1:8:188:PHE:CD2	2.44	0.53
1:B:175:ASP:HB3	1:B:188:PHE:CD2	2.44	0.53
1:R:406:ARG:HB2	1:R:531:LYS:HZ1	1.73	0.53
1:S:410:THR:H	1:S:413:ASN:ND2	2.05	0.53
1:U:64:VAL:HG22	1:U:187:LEU:HD12	1.90	0.53
1:d:64:VAL:HG22	1:d:187:LEU:HD12	1.90	0.53
1:e:294:MET:HE1	1:e:382:LEU:HD11	1.89	0.53
1:h:175:ASP:HB3	1:h:188:PHE:CD2	2.44	0.53
1:k:491:ARG:O	1:k:492:ARG:NH1	2.40	0.53
1:s:64:VAL:HG22	1:s:187:LEU:HD12	1.90	0.53
1:3:294:MET:HE1	1:3:382:LEU:HD11	1.89	0.53
1:5:175:ASP:HB3	1:5:188:PHE:CD2	2.44	0.53
1:7:294:MET:HE1	1:7:382:LEU:HD11	1.89	0.53
1:N:249:GLU:CG	1:N:536:LYS:HD3	2.37	0.53
1:e:410:THR:H	1:e:413:ASN:HD22	1.55	0.53
1:i:249:GLU:CG	1:i:536:LYS:HD3	2.37	0.53
1:l:491:ARG:O	1:l:492:ARG:NH1	2.40	0.53
1:1:175:ASP:HB3	1:1:188:PHE:CD2	2.44	0.53
1:E:410:THR:H	1:E:413:ASN:HD22	1.55	0.53
1:G:294:MET:HE1	1:G:382:LEU:HD11	1.89	0.53
1:S:64:VAL:HG22	1:S:187:LEU:HD12	1.90	0.53
1:U:68:ASN:ND2	1:U:71:LYS:O	2.39	0.53
1:r:64:VAL:HG22	1:r:187:LEU:HD12	1.90	0.53
1:E:175:ASP:HB3	1:E:188:PHE:CD2	2.44	0.53
1:O:491:ARG:O	1:O:492:ARG:NH1	2.40	0.53
1:d:175:ASP:HB3	1:d:188:PHE:CD2	2.44	0.53
1:M:64:VAL:HG22	1:M:187:LEU:HD12	1.90	0.53
1:M:410:THR:H	1:M:413:ASN:HD22	1.55	0.53
1:Q:64:VAL:HG22	1:Q:187:LEU:HD12	1.90	0.53
1:t:294:MET:HE1	1:t:382:LEU:HD11	1.89	0.53
1:w:175:ASP:HB3	1:w:188:PHE:CD2	2.44	0.53
1:x:64:VAL:HG22	1:x:187:LEU:HD12	1.90	0.53
1:S:491:ARG:O	1:S:492:ARG:NH1	2.40	0.52
1:d:410:THR:H	1:d:413:ASN:HD22	1.55	0.52
1:h:64:VAL:HG22	1:h:187:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:175:ASP:HB3	1:n:188:PHE:CD2	2.44	0.52
1:s:68:ASN:ND2	1:s:71:LYS:O	2.39	0.52
1:w:410:THR:H	1:w:413:ASN:HD22	1.55	0.52
1:4:175:ASP:HB3	1:4:188:PHE:CD2	2.44	0.52
1:K:175:ASP:HB3	1:K:188:PHE:CD2	2.44	0.52
1:a:175:ASP:HB3	1:a:188:PHE:CD2	2.44	0.52
1:q:104:SER:HB2	1:q:177:MET:HE3	1.89	0.52
1:r:175:ASP:HB3	1:r:188:PHE:CD2	2.44	0.52
1:u:175:ASP:HB3	1:u:188:PHE:CD2	2.44	0.52
1:I:175:ASP:HB3	1:I:188:PHE:CD2	2.44	0.52
1:P:491:ARG:O	1:P:492:ARG:NH1	2.40	0.52
1:S:175:ASP:HB3	1:S:188:PHE:CD2	2.44	0.52
1:Y:175:ASP:HB3	1:Y:188:PHE:CD2	2.44	0.52
1:h:410:THR:H	1:h:413:ASN:HD22	1.55	0.52
1:j:491:ARG:O	1:j:492:ARG:NH1	2.40	0.52
1:n:410:THR:H	1:n:413:ASN:HD22	1.55	0.52
1:t:64:VAL:HG22	1:t:187:LEU:HD12	1.90	0.52
1:2:175:ASP:CB	1:2:188:PHE:CZ	2.83	0.52
1:3:175:ASP:HB3	1:3:188:PHE:CD2	2.44	0.52
1:G:64:VAL:HG22	1:G:187:LEU:HD12	1.90	0.52
1:P:175:ASP:HB3	1:P:188:PHE:CD2	2.44	0.52
1:V:175:ASP:HB3	1:V:188:PHE:CD2	2.44	0.52
1:V:491:ARG:O	1:V:492:ARG:NH1	2.40	0.52
1:b:491:ARG:O	1:b:492:ARG:NH1	2.40	0.52
1:p:175:ASP:HB3	1:p:188:PHE:CD2	2.44	0.52
1:r:491:ARG:O	1:r:492:ARG:NH1	2.40	0.52
1:2:175:ASP:HB3	1:2:188:PHE:CD2	2.44	0.52
1:3:136:LYS:NZ	1:3:149:ASN:OD1	2.37	0.52
1:7:175:ASP:HB3	1:7:188:PHE:CD2	2.44	0.52
1:I:491:ARG:O	1:I:492:ARG:NH1	2.40	0.52
1:J:175:ASP:HB3	1:J:188:PHE:CD2	2.44	0.52
1:N:64:VAL:HG22	1:N:187:LEU:HD12	1.90	0.52
1:R:104:SER:HB2	1:R:177:MET:HE3	1.89	0.52
1:b:175:ASP:HB3	1:b:188:PHE:CD2	2.44	0.52
1:e:175:ASP:HB3	1:e:188:PHE:CD2	2.44	0.52
1:f:175:ASP:HB3	1:f:188:PHE:CD2	2.44	0.52
1:f:491:ARG:O	1:f:492:ARG:NH1	2.40	0.52
1:j:175:ASP:HB3	1:j:188:PHE:CD2	2.44	0.52
1:o:175:ASP:HB3	1:o:188:PHE:CD2	2.44	0.52
1:s:175:ASP:HB3	1:s:188:PHE:CD2	2.44	0.52
1:O:175:ASP:HB3	1:O:188:PHE:CD2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:64:VAL:HG22	1:i:187:LEU:HD12	1.90	0.52
1:k:410:THR:H	1:k:413:ASN:HD22	1.55	0.52
1:l:175:ASP:HB3	1:l:188:PHE:CD2	2.44	0.52
1:p:68:ASN:ND2	1:p:71:LYS:O	2.39	0.52
1:p:491:ARG:O	1:p:492:ARG:NH1	2.40	0.52
1:x:175:ASP:CB	1:x:188:PHE:CZ	2.83	0.52
1:G:357:GLN:HE22	1:G:412:GLU:HG2	1.75	0.52
1:J:175:ASP:CB	1:J:188:PHE:CZ	2.83	0.52
1:K:410:THR:H	1:K:413:ASN:HD22	1.55	0.52
1:M:68:ASN:ND2	1:M:71:LYS:O	2.39	0.52
1:R:175:ASP:HB3	1:R:188:PHE:CD2	2.44	0.52
1:U:175:ASP:HB3	1:U:188:PHE:CD2	2.44	0.52
1:X:175:ASP:HB3	1:X:188:PHE:CD2	2.44	0.52
1:Z:156:HIS:HD2	1:Z:226:HIS:CD2	2.28	0.52
1:c:175:ASP:HB3	1:c:188:PHE:CD2	2.44	0.52
1:g:491:ARG:O	1:g:492:ARG:NH1	2.40	0.52
1:o:357:GLN:HE22	1:o:412:GLU:HG2	1.75	0.52
1:t:357:GLN:HE22	1:t:412:GLU:HG2	1.75	0.52
1:u:491:ARG:O	1:u:492:ARG:NH1	2.40	0.52
1:4:410:THR:H	1:4:413:ASN:HD22	1.55	0.52
1:8:156:HIS:HD2	1:8:226:HIS:CD2	2.28	0.52
1:M:357:GLN:HE22	1:M:412:GLU:HG2	1.75	0.52
1:Q:175:ASP:CB	1:Q:188:PHE:CZ	2.83	0.52
1:X:357:GLN:HE22	1:X:412:GLU:HG2	1.75	0.52
1:h:68:ASN:ND2	1:h:71:LYS:O	2.39	0.52
1:h:357:GLN:HE22	1:h:412:GLU:HG2	1.75	0.52
1:m:156:HIS:HD2	1:m:226:HIS:CD2	2.28	0.52
1:q:175:ASP:HB3	1:q:188:PHE:CD2	2.44	0.52
1:B:156:HIS:HD2	1:B:226:HIS:CD2	2.28	0.52
1:D:410:THR:H	1:D:413:ASN:HD22	1.55	0.52
1:T:156:HIS:HD2	1:T:226:HIS:CD2	2.28	0.52
1:V:68:ASN:ND2	1:V:71:LYS:O	2.39	0.52
1:6:357:GLN:HE22	1:6:412:GLU:HG2	1.75	0.52
1:7:406:ARG:HB2	1:7:531:LYS:HZ1	1.75	0.52
1:B:406:ARG:HB2	1:B:531:LYS:HZ1	1.74	0.52
1:C:491:ARG:O	1:C:492:ARG:NH1	2.40	0.52
1:E:357:GLN:HE22	1:E:412:GLU:HG2	1.75	0.52
1:N:491:ARG:O	1:N:492:ARG:NH1	2.40	0.52
1:S:156:HIS:HD2	1:S:226:HIS:CD2	2.28	0.52
1:W:357:GLN:HE22	1:W:412:GLU:HG2	1.75	0.52
1:m:491:ARG:O	1:m:492:ARG:NH1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:156:HIS:HD2	1:r:226:HIS:CD2	2.28	0.52
1:v:156:HIS:HD2	1:v:226:HIS:CD2	2.28	0.52
1:A:156:HIS:HD2	1:A:226:HIS:CD2	2.28	0.51
1:B:390:TYR:HE2	1:J:331:ALA:HB2	1.75	0.51
1:E:156:HIS:HD2	1:E:226:HIS:CD2	2.28	0.51
1:F:302:ALA:C	1:F:314:SER:HB2	2.35	0.51
1:L:302:ALA:C	1:L:314:SER:HB2	2.36	0.51
1:N:156:HIS:HD2	1:N:226:HIS:CD2	2.28	0.51
1:T:491:ARG:O	1:T:492:ARG:NH1	2.40	0.51
1:f:357:GLN:HE22	1:f:412:GLU:HG2	1.75	0.51
1:i:156:HIS:HD2	1:i:226:HIS:CD2	2.28	0.51
1:q:156:HIS:HD2	1:q:226:HIS:CD2	2.28	0.51
1:s:302:ALA:C	1:s:314:SER:HB2	2.36	0.51
1:u:156:HIS:HD2	1:u:226:HIS:CD2	2.28	0.51
1:w:156:HIS:HD2	1:w:226:HIS:CD2	2.28	0.51
1:w:357:GLN:HE22	1:w:412:GLU:HG2	1.75	0.51
1:y:302:ALA:C	1:y:314:SER:HB2	2.36	0.51
1:1:156:HIS:HD2	1:1:226:HIS:CD2	2.28	0.51
1:1:406:ARG:HB2	1:1:531:LYS:HZ1	1.74	0.51
1:4:302:ALA:C	1:4:314:SER:HB2	2.35	0.51
1:D:175:ASP:HB3	1:D:188:PHE:CD2	2.44	0.51
1:D:357:GLN:HE22	1:D:412:GLU:HG2	1.75	0.51
1:H:302:ALA:C	1:H:314:SER:HB2	2.36	0.51
1:I:156:HIS:HD2	1:I:226:HIS:CD2	2.28	0.51
1:K:156:HIS:HD2	1:K:226:HIS:CD2	2.28	0.51
1:O:357:GLN:HE22	1:O:412:GLU:HG2	1.75	0.51
1:R:156:HIS:HD2	1:R:226:HIS:CD2	2.28	0.51
1:U:302:ALA:C	1:U:314:SER:HB2	2.36	0.51
1:X:302:ALA:C	1:X:314:SER:HB2	2.36	0.51
1:Z:302:ALA:C	1:Z:314:SER:HB2	2.36	0.51
1:b:156:HIS:HD2	1:b:226:HIS:CD2	2.28	0.51
1:b:357:GLN:HE22	1:b:412:GLU:HG2	1.75	0.51
1:c:302:ALA:C	1:c:314:SER:HB2	2.36	0.51
1:e:302:ALA:C	1:e:314:SER:HB2	2.36	0.51
1:i:491:ARG:O	1:i:492:ARG:NH1	2.40	0.51
1:k:175:ASP:HB3	1:k:188:PHE:CD2	2.44	0.51
1:k:357:GLN:HE22	1:k:412:GLU:HG2	1.75	0.51
1:o:302:ALA:C	1:o:314:SER:HB2	2.36	0.51
1:s:357:GLN:HE22	1:s:412:GLU:HG2	1.75	0.51
1:y:156:HIS:HD2	1:y:226:HIS:CD2	2.28	0.51
1:z:302:ALA:C	1:z:314:SER:HB2	2.36	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:156:HIS:HD2	1:4:226:HIS:CD2	2.28	0.51
1:5:491:ARG:O	1:5:492:ARG:NH1	2.40	0.51
1:8:302:ALA:C	1:8:314:SER:HB2	2.36	0.51
1:E:302:ALA:C	1:E:314:SER:HB2	2.36	0.51
1:F:156:HIS:HD2	1:F:226:HIS:CD2	2.28	0.51
1:H:357:GLN:HE22	1:H:412:GLU:HG2	1.75	0.51
1:H:491:ARG:O	1:H:492:ARG:NH1	2.40	0.51
1:K:302:ALA:C	1:K:314:SER:HB2	2.36	0.51
1:Q:156:HIS:HD2	1:Q:226:HIS:CD2	2.28	0.51
1:c:156:HIS:HD2	1:c:226:HIS:CD2	2.28	0.51
1:d:156:HIS:HD2	1:d:226:HIS:CD2	2.28	0.51
1:h:491:ARG:O	1:h:492:ARG:NH1	2.40	0.51
1:l:357:GLN:HE22	1:l:412:GLU:HG2	1.75	0.51
1:t:175:ASP:HB3	1:t:188:PHE:CD2	2.44	0.51
1:w:302:ALA:C	1:w:314:SER:HB2	2.36	0.51
1:x:156:HIS:HD2	1:x:226:HIS:CD2	2.28	0.51
1:5:302:ALA:C	1:5:314:SER:HB2	2.36	0.51
1:G:175:ASP:HB3	1:G:188:PHE:CD2	2.44	0.51
1:I:302:ALA:C	1:I:314:SER:HB2	2.36	0.51
1:J:302:ALA:C	1:J:314:SER:HB2	2.36	0.51
1:K:273:GLN:HB2	1:K:279:SER:HB2	1.93	0.51
1:K:357:GLN:HE22	1:K:412:GLU:HG2	1.75	0.51
1:M:491:ARG:O	1:M:492:ARG:NH1	2.40	0.51
1:N:273:GLN:HB2	1:N:279:SER:HB2	1.93	0.51
1:P:357:GLN:HE22	1:P:412:GLU:HG2	1.75	0.51
1:U:357:GLN:HE22	1:U:412:GLU:HG2	1.75	0.51
1:V:156:HIS:HD2	1:V:226:HIS:CD2	2.28	0.51
1:c:357:GLN:HE22	1:c:412:GLU:HG2	1.75	0.51
1:f:156:HIS:HD2	1:f:226:HIS:CD2	2.28	0.51
1:f:273:GLN:HB2	1:f:279:SER:HB2	1.93	0.51
1:j:357:GLN:HE22	1:j:412:GLU:HG2	1.75	0.51
1:n:156:HIS:HD2	1:n:226:HIS:CD2	2.28	0.51
1:2:302:ALA:C	1:2:314:SER:HB2	2.36	0.51
1:5:357:GLN:HE22	1:5:412:GLU:HG2	1.75	0.51
1:7:357:GLN:HE22	1:7:412:GLU:HG2	1.75	0.51
1:E:273:GLN:HB2	1:E:279:SER:HB2	1.93	0.51
1:H:273:GLN:HB2	1:H:279:SER:HB2	1.93	0.51
1:M:156:HIS:HD2	1:M:226:HIS:CD2	2.28	0.51
1:P:302:ALA:C	1:P:314:SER:HB2	2.36	0.51
1:T:302:ALA:C	1:T:314:SER:HB2	2.35	0.51
1:Y:156:HIS:HD2	1:Y:226:HIS:CD2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:357:GLN:HE22	1:Y:412:GLU:HG2	1.75	0.51
1:a:302:ALA:C	1:a:314:SER:HB2	2.36	0.51
1:b:273:GLN:HB2	1:b:279:SER:HB2	1.93	0.51
1:d:273:GLN:HB2	1:d:279:SER:HB2	1.93	0.51
1:e:156:HIS:HD2	1:e:226:HIS:CD2	2.28	0.51
1:e:357:GLN:HE22	1:e:412:GLU:HG2	1.75	0.51
1:i:273:GLN:HB2	1:i:279:SER:HB2	1.93	0.51
1:l:156:HIS:HD2	1:l:226:HIS:CD2	2.28	0.51
1:m:302:ALA:C	1:m:314:SER:HB2	2.36	0.51
1:t:302:ALA:C	1:t:314:SER:HB2	2.36	0.51
1:u:302:ALA:C	1:u:314:SER:HB2	2.36	0.51
1:w:273:GLN:HB2	1:w:279:SER:HB2	1.93	0.51
1:4:273:GLN:HB2	1:4:279:SER:HB2	1.93	0.51
1:5:156:HIS:HD2	1:5:226:HIS:CD2	2.28	0.51
1:5:273:GLN:HB2	1:5:279:SER:HB2	1.93	0.51
1:7:156:HIS:HD2	1:7:226:HIS:CD2	2.28	0.51
1:A:302:ALA:C	1:A:314:SER:HB2	2.36	0.51
1:G:302:ALA:C	1:G:314:SER:HB2	2.36	0.51
1:H:156:HIS:HD2	1:H:226:HIS:CD2	2.28	0.51
1:N:357:GLN:HE22	1:N:412:GLU:HG2	1.75	0.51
1:O:156:HIS:HD2	1:O:226:HIS:CD2	2.28	0.51
1:U:273:GLN:HB2	1:U:279:SER:HB2	1.93	0.51
1:W:302:ALA:C	1:W:314:SER:HB2	2.36	0.51
1:b:302:ALA:C	1:b:314:SER:HB2	2.36	0.51
1:h:156:HIS:HD2	1:h:226:HIS:CD2	2.28	0.51
1:i:357:GLN:HE22	1:i:412:GLU:HG2	1.75	0.51
1:n:273:GLN:HB2	1:n:279:SER:HB2	1.93	0.51
1:p:156:HIS:HD2	1:p:226:HIS:CD2	2.28	0.51
1:u:406:ARG:HB2	1:u:531:LYS:HZ1	1.75	0.51
1:v:302:ALA:C	1:v:314:SER:HB2	2.36	0.51
1:3:302:ALA:C	1:3:314:SER:HB2	2.36	0.51
1:6:302:ALA:C	1:6:314:SER:HB2	2.36	0.51
1:I:357:GLN:HE22	1:I:412:GLU:HG2	1.75	0.51
1:J:390:TYR:HE2	1:L:331:ALA:HB2	1.75	0.51
1:P:273:GLN:HB2	1:P:279:SER:HB2	1.93	0.51
1:U:156:HIS:HD2	1:U:226:HIS:CD2	2.28	0.51
1:V:273:GLN:HB2	1:V:279:SER:HB2	1.93	0.51
1:Y:406:ARG:HB2	1:Y:531:LYS:HZ1	1.75	0.51
1:j:302:ALA:C	1:j:314:SER:HB2	2.36	0.51
1:o:156:HIS:HD2	1:o:226:HIS:CD2	2.28	0.51
1:p:273:GLN:HB2	1:p:279:SER:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:357:GLN:HE22	1:p:412:GLU:HG2	1.75	0.51
1:q:273:GLN:HB2	1:q:279:SER:HB2	1.93	0.51
1:q:357:GLN:HE22	1:q:412:GLU:HG2	1.75	0.51
1:s:273:GLN:HB2	1:s:279:SER:HB2	1.93	0.51
1:1:357:GLN:HE22	1:1:412:GLU:HG2	1.75	0.51
1:3:406:ARG:HB2	1:3:531:LYS:HZ1	1.75	0.51
1:4:357:GLN:HE22	1:4:412:GLU:HG2	1.75	0.51
1:B:357:GLN:HE22	1:B:412:GLU:HG2	1.75	0.51
1:C:156:HIS:HD2	1:C:226:HIS:CD2	2.28	0.51
1:D:302:ALA:C	1:D:314:SER:HB2	2.36	0.51
1:L:156:HIS:HD2	1:L:226:HIS:CD2	2.28	0.51
1:Q:357:GLN:HE22	1:Q:412:GLU:HG2	1.75	0.51
1:R:273:GLN:HB2	1:R:279:SER:HB2	1.93	0.51
1:T:273:GLN:HB2	1:T:279:SER:HB2	1.93	0.51
1:T:357:GLN:HE22	1:T:412:GLU:HG2	1.75	0.51
1:X:156:HIS:HD2	1:X:226:HIS:CD2	2.28	0.51
1:f:302:ALA:C	1:f:314:SER:HB2	2.36	0.51
1:g:156:HIS:HD2	1:g:226:HIS:CD2	2.28	0.51
1:j:273:GLN:HB2	1:j:279:SER:HB2	1.93	0.51
1:s:156:HIS:HD2	1:s:226:HIS:CD2	2.28	0.51
1:x:357:GLN:HE22	1:x:412:GLU:HG2	1.75	0.51
1:6:156:HIS:HD2	1:6:226:HIS:CD2	2.28	0.51
1:8:357:GLN:HE22	1:8:412:GLU:HG2	1.75	0.51
1:D:273:GLN:HB2	1:D:279:SER:HB2	1.93	0.51
1:L:136:LYS:NZ	1:L:149:ASN:OD1	2.37	0.51
1:L:273:GLN:HB2	1:L:279:SER:HB2	1.93	0.51
1:L:357:GLN:HE22	1:L:412:GLU:HG2	1.75	0.51
1:R:357:GLN:HE22	1:R:412:GLU:HG2	1.75	0.51
1:V:357:GLN:HE22	1:V:412:GLU:HG2	1.75	0.51
1:W:156:HIS:HD2	1:W:226:HIS:CD2	2.28	0.51
1:k:273:GLN:HB2	1:k:279:SER:HB2	1.93	0.51
1:k:302:ALA:C	1:k:314:SER:HB2	2.36	0.51
1:m:273:GLN:HB2	1:m:279:SER:HB2	1.93	0.51
1:m:357:GLN:HE22	1:m:412:GLU:HG2	1.75	0.51
1:z:136:LYS:NZ	1:z:149:ASN:OD1	2.37	0.51
1:z:156:HIS:HD2	1:z:226:HIS:CD2	2.28	0.51
1:z:273:GLN:HB2	1:z:279:SER:HB2	1.93	0.51
1:z:357:GLN:HE22	1:z:412:GLU:HG2	1.75	0.51
1:3:273:GLN:HB2	1:3:279:SER:HB2	1.93	0.51
1:H:204:ASP:OD1	1:H:205:ALA:N	2.44	0.51
1:R:174:GLU:OE1	1:R:359:PRO:HG3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:302:ALA:C	1:V:314:SER:HB2	2.36	0.51
1:X:273:GLN:HB2	1:X:279:SER:HB2	1.93	0.51
1:Z:357:GLN:HE22	1:Z:412:GLU:HG2	1.75	0.51
1:d:302:ALA:C	1:d:314:SER:HB2	2.36	0.51
1:g:302:ALA:C	1:g:314:SER:HB2	2.36	0.51
1:i:302:ALA:C	1:i:314:SER:HB2	2.36	0.51
1:o:273:GLN:HB2	1:o:279:SER:HB2	1.93	0.51
1:p:302:ALA:C	1:p:314:SER:HB2	2.36	0.51
1:q:174:GLU:OE1	1:q:359:PRO:HG3	2.11	0.51
1:u:357:GLN:HE22	1:u:412:GLU:HG2	1.75	0.51
1:3:156:HIS:HD2	1:3:226:HIS:CD2	2.28	0.51
1:5:204:ASP:OD1	1:5:205:ALA:N	2.44	0.51
1:A:273:GLN:HB2	1:A:279:SER:HB2	1.93	0.50
1:C:357:GLN:HE22	1:C:412:GLU:HG2	1.75	0.50
1:D:156:HIS:HD2	1:D:226:HIS:CD2	2.28	0.50
1:E:174:GLU:OE1	1:E:359:PRO:HG3	2.12	0.50
1:E:204:ASP:OD1	1:E:205:ALA:N	2.45	0.50
1:F:491:ARG:O	1:F:492:ARG:NH1	2.40	0.50
1:G:204:ASP:OD1	1:G:205:ALA:N	2.45	0.50
1:M:174:GLU:OE1	1:M:359:PRO:HG3	2.11	0.50
1:N:302:ALA:C	1:N:314:SER:HB2	2.36	0.50
1:Y:174:GLU:OE1	1:Y:359:PRO:HG3	2.11	0.50
1:a:156:HIS:HD2	1:a:226:HIS:CD2	2.28	0.50
1:b:204:ASP:OD1	1:b:205:ALA:N	2.45	0.50
1:d:357:GLN:HE22	1:d:412:GLU:HG2	1.75	0.50
1:e:204:ASP:OD1	1:e:205:ALA:N	2.45	0.50
1:f:204:ASP:OD1	1:f:205:ALA:N	2.45	0.50
1:h:174:GLU:OE1	1:h:359:PRO:HG3	2.11	0.50
1:h:302:ALA:C	1:h:314:SER:HB2	2.36	0.50
1:k:156:HIS:HD2	1:k:226:HIS:CD2	2.28	0.50
1:n:357:GLN:HE22	1:n:412:GLU:HG2	1.75	0.50
1:v:273:GLN:HB2	1:v:279:SER:HB2	1.93	0.50
1:w:174:GLU:OE1	1:w:359:PRO:HG3	2.12	0.50
1:y:491:ARG:O	1:y:492:ARG:NH1	2.40	0.50
1:2:156:HIS:HD2	1:2:226:HIS:CD2	2.28	0.50
1:8:491:ARG:O	1:8:492:ARG:NH1	2.40	0.50
1:A:357:GLN:HE22	1:A:412:GLU:HG2	1.75	0.50
1:C:204:ASP:OD1	1:C:205:ALA:N	2.45	0.50
1:C:302:ALA:C	1:C:314:SER:HB2	2.36	0.50
1:G:136:LYS:NZ	1:G:149:ASN:OD1	2.37	0.50
1:G:273:GLN:HB2	1:G:279:SER:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:174:GLU:OE1	1:H:359:PRO:HG3	2.12	0.50
1:I:174:GLU:OE1	1:I:359:PRO:HG3	2.11	0.50
1:M:273:GLN:HB2	1:M:279:SER:HB2	1.93	0.50
1:M:302:ALA:C	1:M:314:SER:HB2	2.36	0.50
1:P:136:LYS:NZ	1:P:149:ASN:OD1	2.37	0.50
1:P:156:HIS:HD2	1:P:226:HIS:CD2	2.28	0.50
1:S:357:GLN:HE22	1:S:412:GLU:HG2	1.75	0.50
1:T:174:GLU:OE1	1:T:359:PRO:HG3	2.12	0.50
1:a:273:GLN:HB2	1:a:279:SER:HB2	1.93	0.50
1:c:204:ASP:OD1	1:c:205:ALA:N	2.45	0.50
1:g:357:GLN:HE22	1:g:412:GLU:HG2	1.75	0.50
1:j:136:LYS:NZ	1:j:149:ASN:OD1	2.37	0.50
1:l:302:ALA:C	1:l:314:SER:HB2	2.36	0.50
1:m:174:GLU:OE1	1:m:359:PRO:HG3	2.12	0.50
1:n:302:ALA:C	1:n:314:SER:HB2	2.36	0.50
1:t:204:ASP:OD1	1:t:205:ALA:N	2.45	0.50
1:t:273:GLN:HB2	1:t:279:SER:HB2	1.93	0.50
1:u:273:GLN:HB2	1:u:279:SER:HB2	1.93	0.50
1:v:357:GLN:HE22	1:v:412:GLU:HG2	1.75	0.50
1:w:204:ASP:OD1	1:w:205:ALA:N	2.45	0.50
1:5:174:GLU:OE1	1:5:359:PRO:HG3	2.12	0.50
1:7:174:GLU:OE1	1:7:359:PRO:HG3	2.11	0.50
1:J:156:HIS:HD2	1:J:226:HIS:CD2	2.28	0.50
1:K:174:GLU:OE1	1:K:359:PRO:HG3	2.12	0.50
1:N:204:ASP:OD1	1:N:205:ALA:N	2.45	0.50
1:O:174:GLU:OE1	1:O:359:PRO:HG3	2.12	0.50
1:O:302:ALA:C	1:O:314:SER:HB2	2.36	0.50
1:Q:302:ALA:C	1:Q:314:SER:HB2	2.36	0.50
1:U:204:ASP:OD1	1:U:205:ALA:N	2.45	0.50
1:V:204:ASP:OD1	1:V:205:ALA:N	2.45	0.50
1:a:357:GLN:HE22	1:a:412:GLU:HG2	1.75	0.50
1:a:406:ARG:HB2	1:a:531:LYS:HZ1	1.76	0.50
1:g:204:ASP:OD1	1:g:205:ALA:N	2.45	0.50
1:h:273:GLN:HB2	1:h:279:SER:HB2	1.93	0.50
1:j:156:HIS:HD2	1:j:226:HIS:CD2	2.28	0.50
1:l:174:GLU:OE1	1:l:359:PRO:HG3	2.12	0.50
1:r:357:GLN:HE22	1:r:412:GLU:HG2	1.75	0.50
1:1:204:ASP:OD1	1:1:205:ALA:N	2.44	0.50
1:3:357:GLN:HE22	1:3:412:GLU:HG2	1.75	0.50
1:6:204:ASP:OD1	1:6:205:ALA:N	2.44	0.50
1:B:204:ASP:OD1	1:B:205:ALA:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:302:ALA:C	1:B:314:SER:HB2	2.36	0.50
1:G:156:HIS:HD2	1:G:226:HIS:CD2	2.28	0.50
1:I:273:GLN:HB2	1:I:279:SER:HB2	1.93	0.50
1:O:273:GLN:HB2	1:O:279:SER:HB2	1.93	0.50
1:Q:174:GLU:OE1	1:Q:359:PRO:HG3	2.12	0.50
1:S:204:ASP:OD1	1:S:205:ALA:N	2.45	0.50
1:U:174:GLU:OE1	1:U:359:PRO:HG3	2.12	0.50
1:W:204:ASP:OD1	1:W:205:ALA:N	2.44	0.50
1:Z:273:GLN:HB2	1:Z:279:SER:HB2	1.93	0.50
1:Z:491:ARG:O	1:Z:492:ARG:NH1	2.40	0.50
1:i:204:ASP:OD1	1:i:205:ALA:N	2.45	0.50
1:k:174:GLU:OE1	1:k:359:PRO:HG3	2.11	0.50
1:l:273:GLN:HB2	1:l:279:SER:HB2	1.93	0.50
1:p:204:ASP:OD1	1:p:205:ALA:N	2.45	0.50
1:r:302:ALA:C	1:r:314:SER:HB2	2.36	0.50
1:s:204:ASP:OD1	1:s:205:ALA:N	2.45	0.50
1:t:156:HIS:HD2	1:t:226:HIS:CD2	2.28	0.50
1:u:174:GLU:OE1	1:u:359:PRO:HG3	2.12	0.50
1:x:174:GLU:OE1	1:x:359:PRO:HG3	2.12	0.50
1:y:204:ASP:OD1	1:y:205:ALA:N	2.45	0.50
1:1:302:ALA:C	1:1:314:SER:HB2	2.36	0.50
1:4:174:GLU:OE1	1:4:359:PRO:HG3	2.12	0.50
1:8:273:GLN:HB2	1:8:279:SER:HB2	1.93	0.50
1:F:204:ASP:OD1	1:F:205:ALA:N	2.45	0.50
1:F:357:GLN:HE22	1:F:412:GLU:HG2	1.75	0.50
1:S:273:GLN:HB2	1:S:279:SER:HB2	1.93	0.50
1:S:302:ALA:C	1:S:314:SER:HB2	2.36	0.50
1:Y:491:ARG:O	1:Y:492:ARG:NH1	2.40	0.50
1:a:204:ASP:OD1	1:a:205:ALA:N	2.45	0.50
1:a:387:GLN:HA	1:8:305:VAL:HG22	1.94	0.50
1:j:204:ASP:OD1	1:j:205:ALA:N	2.44	0.50
1:m:241:PHE:HB3	1:m:243:CYS:SG	2.52	0.50
1:n:204:ASP:OD1	1:n:205:ALA:N	2.45	0.50
1:r:204:ASP:OD1	1:r:205:ALA:N	2.45	0.50
1:r:273:GLN:HB2	1:r:279:SER:HB2	1.93	0.50
1:s:174:GLU:OE1	1:s:359:PRO:HG3	2.12	0.50
1:s:241:PHE:HB3	1:s:243:CYS:SG	2.52	0.50
1:v:204:ASP:OD1	1:v:205:ALA:N	2.45	0.50
1:x:204:ASP:OD1	1:x:205:ALA:N	2.45	0.50
1:x:302:ALA:C	1:x:314:SER:HB2	2.36	0.50
1:y:357:GLN:HE22	1:y:412:GLU:HG2	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:163:HIS:HB2	1:A:421:ARG:HH22	1.77	0.50
1:A:204:ASP:OD1	1:A:205:ALA:N	2.45	0.50
1:D:174:GLU:OE1	1:D:359:PRO:HG3	2.11	0.50
1:D:241:PHE:HB3	1:D:243:CYS:SG	2.52	0.50
1:D:406:ARG:HB2	1:D:531:LYS:HZ1	1.75	0.50
1:G:241:PHE:HB3	1:G:243:CYS:SG	2.52	0.50
1:P:204:ASP:OD1	1:P:205:ALA:N	2.44	0.50
1:Q:204:ASP:OD1	1:Q:205:ALA:N	2.45	0.50
1:T:241:PHE:HB3	1:T:243:CYS:SG	2.52	0.50
1:U:241:PHE:HB3	1:U:243:CYS:SG	2.52	0.50
1:X:204:ASP:OD1	1:X:205:ALA:N	2.45	0.50
1:Z:305:VAL:HG22	1:3:387:GLN:HA	1.94	0.50
1:a:174:GLU:OE1	1:a:359:PRO:HG3	2.12	0.50
1:a:241:PHE:HB3	1:a:243:CYS:SG	2.52	0.50
1:c:163:HIS:HB2	1:c:421:ARG:HH22	1.77	0.50
1:c:241:PHE:HB3	1:c:243:CYS:SG	2.52	0.50
1:c:273:GLN:HB2	1:c:279:SER:HB2	1.93	0.50
1:d:204:ASP:OD1	1:d:205:ALA:N	2.45	0.50
1:e:163:HIS:HB2	1:e:421:ARG:HH22	1.77	0.50
1:e:241:PHE:HB3	1:e:243:CYS:SG	2.52	0.50
1:e:273:GLN:HB2	1:e:279:SER:HB2	1.93	0.50
1:f:163:HIS:HB2	1:f:421:ARG:HH22	1.77	0.50
1:j:241:PHE:HB3	1:j:243:CYS:SG	2.52	0.50
1:k:241:PHE:HB3	1:k:243:CYS:SG	2.52	0.50
1:k:406:ARG:HB2	1:k:531:LYS:HZ1	1.75	0.50
1:m:204:ASP:OD1	1:m:205:ALA:N	2.45	0.50
1:t:136:LYS:NZ	1:t:149:ASN:OD1	2.37	0.50
1:t:174:GLU:OE1	1:t:359:PRO:HG3	2.12	0.50
1:t:241:PHE:HB3	1:t:243:CYS:SG	2.52	0.50
1:z:204:ASP:OD1	1:z:205:ALA:N	2.45	0.50
1:2:174:GLU:OE1	1:2:359:PRO:HG3	2.12	0.50
1:3:241:PHE:HB3	1:3:243:CYS:SG	2.52	0.50
1:4:204:ASP:OD1	1:4:205:ALA:N	2.45	0.50
1:G:174:GLU:OE1	1:G:359:PRO:HG3	2.12	0.50
1:K:204:ASP:OD1	1:K:205:ALA:N	2.44	0.50
1:L:204:ASP:OD1	1:L:205:ALA:N	2.45	0.50
1:O:204:ASP:OD1	1:O:205:ALA:N	2.45	0.50
1:P:241:PHE:HB3	1:P:243:CYS:SG	2.52	0.50
1:R:331:ALA:HB2	1:U:390:TYR:HE2	1.76	0.50
1:T:204:ASP:OD1	1:T:205:ALA:N	2.45	0.50
1:W:241:PHE:HB3	1:W:243:CYS:SG	2.52	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:241:PHE:HB3	1:Y:243:CYS:SG	2.52	0.50
1:Y:273:GLN:HB2	1:Y:279:SER:HB2	1.93	0.50
1:Z:174:GLU:OE1	1:Z:359:PRO:HG3	2.12	0.50
1:Z:204:ASP:OD1	1:Z:205:ALA:N	2.45	0.50
1:b:163:HIS:HB2	1:b:421:ARG:HH22	1.77	0.50
1:o:174:GLU:OE1	1:o:359:PRO:HG3	2.11	0.50
1:o:204:ASP:OD1	1:o:205:ALA:N	2.45	0.50
1:q:331:ALA:HB2	1:s:390:TYR:HE2	1.76	0.50
1:v:163:HIS:HB2	1:v:421:ARG:HH22	1.77	0.50
1:2:241:PHE:HB3	1:2:243:CYS:SG	2.52	0.50
1:2:357:GLN:HE22	1:2:412:GLU:HG2	1.75	0.50
1:3:204:ASP:OD1	1:3:205:ALA:N	2.45	0.50
1:A:241:PHE:HB3	1:A:243:CYS:SG	2.52	0.50
1:D:204:ASP:OD1	1:D:205:ALA:N	2.44	0.50
1:I:241:PHE:HB3	1:I:243:CYS:SG	2.52	0.50
1:I:406:ARG:HB2	1:I:531:LYS:HZ1	1.76	0.50
1:J:163:HIS:HB2	1:J:421:ARG:HH22	1.77	0.50
1:J:174:GLU:OE1	1:J:359:PRO:HG3	2.12	0.50
1:J:241:PHE:HB3	1:J:243:CYS:SG	2.52	0.50
1:K:163:HIS:HB2	1:K:421:ARG:HH22	1.77	0.50
1:X:174:GLU:OE1	1:X:359:PRO:HG3	2.11	0.50
1:b:174:GLU:OE1	1:b:359:PRO:HG3	2.12	0.50
1:f:174:GLU:OE1	1:f:359:PRO:HG3	2.12	0.50
1:k:204:ASP:OD1	1:k:205:ALA:N	2.44	0.50
1:l:204:ASP:OD1	1:l:205:ALA:N	2.45	0.50
1:o:241:PHE:HB3	1:o:243:CYS:SG	2.52	0.50
1:t:305:VAL:HG22	1:v:387:GLN:HA	1.93	0.50
1:u:241:PHE:HB3	1:u:243:CYS:SG	2.52	0.50
1:v:241:PHE:HB3	1:v:243:CYS:SG	2.52	0.50
1:z:305:VAL:HG22	1:2:387:GLN:HA	1.94	0.50
1:3:174:GLU:OE1	1:3:359:PRO:HG3	2.12	0.50
1:6:241:PHE:HB3	1:6:243:CYS:SG	2.52	0.50
1:7:273:GLN:HB2	1:7:279:SER:HB2	1.93	0.50
1:8:204:ASP:OD1	1:8:205:ALA:N	2.45	0.50
1:A:387:GLN:HA	1:G:305:VAL:HG22	1.93	0.50
1:F:241:PHE:HB3	1:F:243:CYS:SG	2.52	0.50
1:F:273:GLN:HB2	1:F:279:SER:HB2	1.93	0.50
1:H:163:HIS:HB2	1:H:421:ARG:HH22	1.77	0.50
1:H:331:ALA:HB2	1:Y:390:TYR:HE2	1.77	0.50
1:J:204:ASP:OD1	1:J:205:ALA:N	2.45	0.50
1:J:357:GLN:HE22	1:J:412:GLU:HG2	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:88:ARG:O	1:P:194:PRO:HD2	2.12	0.50
1:Q:136:LYS:NZ	1:Q:149:ASN:OD1	2.37	0.50
1:S:241:PHE:HB3	1:S:243:CYS:SG	2.52	0.50
1:X:241:PHE:HB3	1:X:243:CYS:SG	2.52	0.50
1:Y:204:ASP:OD1	1:Y:205:ALA:N	2.45	0.50
1:Y:302:ALA:C	1:Y:314:SER:HB2	2.36	0.50
1:Z:88:ARG:O	1:Z:194:PRO:HD2	2.12	0.50
1:Z:163:HIS:HB2	1:Z:421:ARG:HH22	1.77	0.50
1:b:88:ARG:O	1:b:194:PRO:HD2	2.12	0.50
1:i:88:ARG:O	1:i:194:PRO:HD2	2.12	0.50
1:i:390:TYR:HE2	1:j:331:ALA:HB2	1.77	0.50
1:j:88:ARG:O	1:j:194:PRO:HD2	2.12	0.50
1:q:302:ALA:C	1:q:314:SER:HB2	2.36	0.50
1:r:163:HIS:HB2	1:r:421:ARG:HH22	1.77	0.50
1:x:136:LYS:NZ	1:x:149:ASN:OD1	2.37	0.50
1:y:241:PHE:HB3	1:y:243:CYS:SG	2.52	0.50
1:4:163:HIS:HB2	1:4:421:ARG:HH22	1.77	0.50
1:4:241:PHE:HB3	1:4:243:CYS:SG	2.52	0.50
1:5:331:ALA:HB2	1:7:390:TYR:HE2	1.77	0.50
1:7:204:ASP:OD1	1:7:205:ALA:N	2.45	0.50
1:7:241:PHE:HB3	1:7:243:CYS:SG	2.52	0.50
1:7:302:ALA:C	1:7:314:SER:HB2	2.36	0.50
1:8:88:ARG:O	1:8:194:PRO:HD2	2.12	0.50
1:8:174:GLU:OE1	1:8:359:PRO:HG3	2.12	0.50
1:8:241:PHE:HB3	1:8:243:CYS:SG	2.52	0.50
1:B:163:HIS:HB2	1:B:421:ARG:HH22	1.77	0.49
1:E:88:ARG:O	1:E:194:PRO:HD2	2.12	0.49
1:E:163:HIS:HB2	1:E:421:ARG:HH22	1.77	0.49
1:F:163:HIS:HB2	1:F:421:ARG:HH22	1.77	0.49
1:G:163:HIS:HB2	1:G:421:ARG:HH22	1.77	0.49
1:I:88:ARG:O	1:I:194:PRO:HD2	2.12	0.49
1:K:241:PHE:HB3	1:K:243:CYS:SG	2.52	0.49
1:N:88:ARG:O	1:N:194:PRO:HD2	2.12	0.49
1:N:390:TYR:HE2	1:P:331:ALA:HB2	1.77	0.49
1:S:163:HIS:HB2	1:S:421:ARG:HH22	1.77	0.49
1:S:382:LEU:HD12	1:S:396:VAL:HG22	1.94	0.49
1:U:229:LEU:HA	1:U:233:GLU:OE1	2.12	0.49
1:V:241:PHE:HB3	1:V:243:CYS:SG	2.52	0.49
1:Z:241:PHE:HB3	1:Z:243:CYS:SG	2.52	0.49
1:e:229:LEU:HA	1:e:233:GLU:OE1	2.12	0.49
1:f:88:ARG:O	1:f:194:PRO:HD2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:331:ALA:HB2	1:h:390:TYR:HE2	1.77	0.49
1:i:241:PHE:HB3	1:i:243:CYS:SG	2.52	0.49
1:i:382:LEU:HD12	1:i:396:VAL:HG22	1.94	0.49
1:q:204:ASP:OD1	1:q:205:ALA:N	2.44	0.49
1:s:229:LEU:HA	1:s:233:GLU:OE1	2.12	0.49
1:t:163:HIS:HB2	1:t:421:ARG:HH22	1.77	0.49
1:u:88:ARG:O	1:u:194:PRO:HD2	2.12	0.49
1:w:88:ARG:O	1:w:194:PRO:HD2	2.12	0.49
1:x:229:LEU:HA	1:x:233:GLU:OE1	2.12	0.49
1:1:163:HIS:HB2	1:1:421:ARG:HH22	1.77	0.49
1:2:163:HIS:HB2	1:2:421:ARG:HH22	1.77	0.49
1:2:204:ASP:OD1	1:2:205:ALA:N	2.45	0.49
1:5:163:HIS:HB2	1:5:421:ARG:HH22	1.77	0.49
1:8:163:HIS:HB2	1:8:421:ARG:HH22	1.77	0.49
1:A:88:ARG:O	1:A:194:PRO:HD2	2.12	0.49
1:C:163:HIS:HB2	1:C:421:ARG:HH22	1.77	0.49
1:C:331:ALA:HB2	1:M:390:TYR:HE2	1.77	0.49
1:D:60:ARG:HG3	1:D:177:MET:HG3	1.95	0.49
1:D:229:LEU:HA	1:D:233:GLU:OE1	2.12	0.49
1:K:305:VAL:HG22	1:8:387:GLN:HA	1.94	0.49
1:K:387:GLN:HA	1:a:305:VAL:HG22	1.94	0.49
1:L:88:ARG:O	1:L:194:PRO:HD2	2.12	0.49
1:N:382:LEU:HD12	1:N:396:VAL:HG22	1.94	0.49
1:O:88:ARG:O	1:O:194:PRO:HD2	2.12	0.49
1:Q:163:HIS:HB2	1:Q:421:ARG:HH22	1.77	0.49
1:Q:229:LEU:HA	1:Q:233:GLU:OE1	2.12	0.49
1:R:163:HIS:HB2	1:R:421:ARG:HH22	1.77	0.49
1:R:204:ASP:OD1	1:R:205:ALA:N	2.44	0.49
1:R:302:ALA:C	1:R:314:SER:HB2	2.36	0.49
1:S:390:TYR:HE2	1:U:331:ALA:HB2	1.76	0.49
1:T:305:VAL:HG22	1:l:387:GLN:HA	1.94	0.49
1:T:372:PRO:HB3	1:T:379:ASP:OD2	2.12	0.49
1:V:88:ARG:O	1:V:194:PRO:HD2	2.12	0.49
1:W:60:ARG:HG3	1:W:177:MET:HG3	1.95	0.49
1:Z:387:GLN:HA	1:4:305:VAL:HG22	1.94	0.49
1:c:229:LEU:HA	1:c:233:GLU:OE1	2.12	0.49
1:c:331:ALA:HB2	1:p:390:TYR:HE2	1.77	0.49
1:g:163:HIS:HB2	1:g:421:ARG:HH22	1.77	0.49
1:h:88:ARG:O	1:h:194:PRO:HD2	2.12	0.49
1:k:60:ARG:HG3	1:k:177:MET:HG3	1.95	0.49
1:k:229:LEU:HA	1:k:233:GLU:OE1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:372:PRO:HB3	1:m:379:ASP:OD2	2.12	0.49
1:n:163:HIS:HB2	1:n:421:ARG:HH22	1.77	0.49
1:p:241:PHE:HB3	1:p:243:CYS:SG	2.52	0.49
1:q:387:GLN:HA	1:r:305:VAL:HG22	1.94	0.49
1:r:241:PHE:HB3	1:r:243:CYS:SG	2.52	0.49
1:r:382:LEU:HD12	1:r:396:VAL:HG22	1.94	0.49
1:t:88:ARG:O	1:t:194:PRO:HD2	2.12	0.49
1:u:204:ASP:OD1	1:u:205:ALA:N	2.45	0.49
1:u:382:LEU:HD12	1:u:396:VAL:HG22	1.94	0.49
1:v:88:ARG:O	1:v:194:PRO:HD2	2.12	0.49
1:v:382:LEU:HD12	1:v:396:VAL:HG22	1.94	0.49
1:w:163:HIS:HB2	1:w:421:ARG:HH22	1.77	0.49
1:w:331:ALA:HB2	1:y:390:TYR:HE2	1.77	0.49
1:w:372:PRO:HB3	1:w:379:ASP:OD2	2.12	0.49
1:x:163:HIS:HB2	1:x:421:ARG:HH22	1.77	0.49
1:y:163:HIS:HB2	1:y:421:ARG:HH22	1.77	0.49
1:y:273:GLN:HB2	1:y:279:SER:HB2	1.93	0.49
1:z:372:PRO:HB3	1:z:379:ASP:OD2	2.12	0.49
1:1:273:GLN:HB2	1:1:279:SER:HB2	1.93	0.49
1:3:305:VAL:HG22	1:4:387:GLN:HA	1.94	0.49
1:6:60:ARG:HG3	1:6:177:MET:HG3	1.95	0.49
1:A:382:LEU:HD12	1:A:396:VAL:HG22	1.94	0.49
1:B:273:GLN:HB2	1:B:279:SER:HB2	1.93	0.49
1:C:88:ARG:O	1:C:194:PRO:HD2	2.12	0.49
1:C:174:GLU:OE1	1:C:359:PRO:HG3	2.12	0.49
1:C:273:GLN:HB2	1:C:279:SER:HB2	1.93	0.49
1:E:331:ALA:HB2	1:F:390:TYR:HE2	1.77	0.49
1:E:372:PRO:HB3	1:E:379:ASP:OD2	2.12	0.49
1:F:136:LYS:NZ	1:F:149:ASN:OD1	2.37	0.49
1:G:88:ARG:O	1:G:194:PRO:HD2	2.12	0.49
1:G:387:GLN:HA	1:I:305:VAL:HG22	1.94	0.49
1:I:204:ASP:OD1	1:I:205:ALA:N	2.45	0.49
1:I:372:PRO:HB3	1:I:379:ASP:OD2	2.12	0.49
1:I:382:LEU:HD12	1:I:396:VAL:HG22	1.94	0.49
1:L:60:ARG:HG3	1:L:177:MET:HG3	1.95	0.49
1:L:372:PRO:HB3	1:L:379:ASP:OD2	2.12	0.49
1:L:382:LEU:HD12	1:L:396:VAL:HG22	1.94	0.49
1:M:88:ARG:O	1:M:194:PRO:HD2	2.12	0.49
1:M:382:LEU:HD12	1:M:396:VAL:HG22	1.94	0.49
1:N:174:GLU:OE1	1:N:359:PRO:HG3	2.11	0.49
1:N:241:PHE:HB3	1:N:243:CYS:SG	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:387:GLN:HA	1:m:305:VAL:HG22	1.95	0.49
1:P:174:GLU:OE1	1:P:359:PRO:HG3	2.12	0.49
1:P:229:LEU:HA	1:P:233:GLU:OE1	2.12	0.49
1:Q:382:LEU:HD12	1:Q:396:VAL:HG22	1.94	0.49
1:R:387:GLN:HA	1:S:305:VAL:HG22	1.94	0.49
1:T:88:ARG:O	1:T:194:PRO:HD2	2.12	0.49
1:V:174:GLU:OE1	1:V:359:PRO:HG3	2.12	0.49
1:V:387:GLN:HA	1:e:305:VAL:HG22	1.94	0.49
1:V:390:TYR:HE2	1:e:331:ALA:HB2	1.77	0.49
1:W:174:GLU:OE1	1:W:359:PRO:HG3	2.11	0.49
1:Y:60:ARG:HG3	1:Y:177:MET:HG3	1.95	0.49
1:Z:331:ALA:HB2	1:3:390:TYR:HE2	1.77	0.49
1:a:390:TYR:HE2	1:8:331:ALA:HB2	1.77	0.49
1:b:60:ARG:HG3	1:b:177:MET:HG3	1.95	0.49
1:c:174:GLU:OE1	1:c:359:PRO:HG3	2.12	0.49
1:c:305:VAL:HG22	1:p:387:GLN:HA	1.94	0.49
1:d:229:LEU:HA	1:d:233:GLU:OE1	2.12	0.49
1:e:174:GLU:OE1	1:e:359:PRO:HG3	2.12	0.49
1:g:88:ARG:O	1:g:194:PRO:HD2	2.12	0.49
1:g:174:GLU:OE1	1:g:359:PRO:HG3	2.12	0.49
1:g:273:GLN:HB2	1:g:279:SER:HB2	1.93	0.49
1:h:382:LEU:HD12	1:h:396:VAL:HG22	1.94	0.49
1:j:229:LEU:HA	1:j:233:GLU:OE1	2.12	0.49
1:l:88:ARG:O	1:l:194:PRO:HD2	2.12	0.49
1:m:88:ARG:O	1:m:194:PRO:HD2	2.12	0.49
1:m:163:HIS:HB2	1:m:421:ARG:HH22	1.77	0.49
1:n:60:ARG:HG3	1:n:177:MET:HG3	1.95	0.49
1:n:229:LEU:HA	1:n:233:GLU:OE1	2.12	0.49
1:o:387:GLN:HA	1:p:305:VAL:HG22	1.94	0.49
1:p:88:ARG:O	1:p:194:PRO:HD2	2.12	0.49
1:q:163:HIS:HB2	1:q:421:ARG:HH22	1.77	0.49
1:t:387:GLN:HA	1:u:305:VAL:HG22	1.94	0.49
1:z:60:ARG:HG3	1:z:177:MET:HG3	1.95	0.49
1:z:88:ARG:O	1:z:194:PRO:HD2	2.12	0.49
1:z:331:ALA:HB2	1:2:390:TYR:HE2	1.76	0.49
1:z:382:LEU:HD12	1:z:396:VAL:HG22	1.94	0.49
1:6:229:LEU:HA	1:6:233:GLU:OE1	2.12	0.49
1:6:273:GLN:HB2	1:6:279:SER:HB2	1.93	0.49
1:7:60:ARG:HG3	1:7:177:MET:HG3	1.95	0.49
1:8:406:ARG:HB2	1:8:531:LYS:HZ1	1.76	0.49
1:A:305:VAL:HG22	1:I:387:GLN:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:174:GLU:OE1	1:F:359:PRO:HG3	2.12	0.49
1:G:382:LEU:HD12	1:G:396:VAL:HG22	1.94	0.49
1:G:390:TYR:HE2	1:I:331:ALA:HB2	1.77	0.49
1:H:229:LEU:HA	1:H:233:GLU:OE1	2.12	0.49
1:M:229:LEU:HA	1:M:233:GLU:OE1	2.12	0.49
1:O:390:TYR:HE2	1:m:331:ALA:HB2	1.77	0.49
1:R:305:VAL:HG22	1:U:387:GLN:HA	1.94	0.49
1:T:163:HIS:HB2	1:T:421:ARG:HH22	1.77	0.49
1:W:229:LEU:HA	1:W:233:GLU:OE1	2.12	0.49
1:W:273:GLN:HB2	1:W:279:SER:HB2	1.93	0.49
1:Z:382:LEU:HD12	1:Z:396:VAL:HG22	1.94	0.49
1:d:60:ARG:HG3	1:d:177:MET:HG3	1.95	0.49
1:d:163:HIS:HB2	1:d:421:ARG:HH22	1.77	0.49
1:f:60:ARG:HG3	1:f:177:MET:HG3	1.95	0.49
1:h:229:LEU:HA	1:h:233:GLU:OE1	2.13	0.49
1:i:174:GLU:OE1	1:i:359:PRO:HG3	2.11	0.49
1:n:174:GLU:OE1	1:n:359:PRO:HG3	2.12	0.49
1:p:174:GLU:OE1	1:p:359:PRO:HG3	2.12	0.49
1:q:241:PHE:HB3	1:q:243:CYS:SG	2.52	0.49
1:r:60:ARG:HG3	1:r:177:MET:HG3	1.95	0.49
1:r:390:TYR:HE2	1:s:331:ALA:HB2	1.76	0.49
1:u:372:PRO:HB3	1:u:379:ASP:OD2	2.12	0.49
1:x:382:LEU:HD12	1:x:396:VAL:HG22	1.94	0.49
1:5:229:LEU:HA	1:5:233:GLU:OE1	2.13	0.49
1:6:174:GLU:OE1	1:6:359:PRO:HG3	2.11	0.49
1:B:174:GLU:OE1	1:B:359:PRO:HG3	2.11	0.49
1:B:229:LEU:HA	1:B:233:GLU:OE1	2.12	0.49
1:C:60:ARG:HG3	1:C:177:MET:HG3	1.95	0.49
1:C:241:PHE:HB3	1:C:243:CYS:SG	2.52	0.49
1:E:241:PHE:HB3	1:E:243:CYS:SG	2.52	0.49
1:H:241:PHE:HB3	1:H:243:CYS:SG	2.52	0.49
1:I:163:HIS:HB2	1:I:421:ARG:HH22	1.77	0.49
1:I:229:LEU:HA	1:I:233:GLU:OE1	2.12	0.49
1:K:60:ARG:HG3	1:K:177:MET:HG3	1.95	0.49
1:L:163:HIS:HB2	1:L:421:ARG:HH22	1.77	0.49
1:L:174:GLU:OE1	1:L:359:PRO:HG3	2.11	0.49
1:L:241:PHE:HB3	1:L:243:CYS:SG	2.52	0.49
1:M:331:ALA:HB2	1:b:390:TYR:HE2	1.77	0.49
1:N:372:PRO:HB3	1:N:379:ASP:OD2	2.12	0.49
1:O:60:ARG:HG3	1:O:177:MET:HG3	1.95	0.49
1:Q:372:PRO:HB3	1:Q:379:ASP:OD2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:241:PHE:HB3	1:R:243:CYS:SG	2.52	0.49
1:R:372:PRO:HB3	1:R:379:ASP:OD2	2.12	0.49
1:T:331:ALA:HB2	1:I:390:TYR:HE2	1.77	0.49
1:a:491:ARG:O	1:a:492:ARG:NH1	2.40	0.49
1:d:174:GLU:OE1	1:d:359:PRO:HG3	2.12	0.49
1:f:331:ALA:HB2	1:g:390:TYR:HE2	1.77	0.49
1:g:60:ARG:HG3	1:g:177:MET:HG3	1.95	0.49
1:j:174:GLU:OE1	1:j:359:PRO:HG3	2.12	0.49
1:l:60:ARG:HG3	1:l:177:MET:HG3	1.95	0.49
1:n:372:PRO:HB3	1:n:379:ASP:OD2	2.12	0.49
1:p:372:PRO:HB3	1:p:379:ASP:OD2	2.12	0.49
1:q:305:VAL:HG22	1:s:387:GLN:HA	1.94	0.49
1:r:88:ARG:O	1:r:194:PRO:HD2	2.12	0.49
1:t:382:LEU:HD12	1:t:396:VAL:HG22	1.94	0.49
1:t:390:TYR:HE2	1:u:331:ALA:HB2	1.77	0.49
1:u:163:HIS:HB2	1:u:421:ARG:HH22	1.77	0.49
1:u:387:GLN:HA	1:v:305:VAL:HG22	1.94	0.49
1:u:390:TYR:HE2	1:v:331:ALA:HB2	1.78	0.49
1:w:241:PHE:HB3	1:w:243:CYS:SG	2.52	0.49
1:w:390:TYR:HE2	1:x:331:ALA:HB2	1.77	0.49
1:x:241:PHE:HB3	1:x:243:CYS:SG	2.52	0.49
1:x:372:PRO:HB3	1:x:379:ASP:OD2	2.12	0.49
1:y:174:GLU:OE1	1:y:359:PRO:HG3	2.12	0.49
1:z:163:HIS:HB2	1:z:421:ARG:HH22	1.77	0.49
1:z:390:TYR:HE2	1:1:331:ALA:HB2	1.76	0.49
1:2:273:GLN:HB2	1:2:279:SER:HB2	1.93	0.49
1:3:88:ARG:O	1:3:194:PRO:HD2	2.12	0.49
1:4:60:ARG:HG3	1:4:177:MET:HG3	1.95	0.49
1:5:241:PHE:HB3	1:5:243:CYS:SG	2.52	0.49
1:A:331:ALA:HB2	1:I:390:TYR:HE2	1.78	0.49
1:C:382:LEU:HD12	1:C:396:VAL:HG22	1.94	0.49
1:D:163:HIS:HB2	1:D:421:ARG:HH22	1.77	0.49
1:E:390:TYR:HE2	1:Q:331:ALA:HB2	1.77	0.49
1:J:88:ARG:O	1:J:194:PRO:HD2	2.12	0.49
1:J:338:ASP:HA	1:J:339:PRO:C	2.38	0.49
1:J:372:PRO:HB3	1:J:379:ASP:OD2	2.12	0.49
1:M:241:PHE:HB3	1:M:243:CYS:SG	2.52	0.49
1:O:241:PHE:HB3	1:O:243:CYS:SG	2.52	0.49
1:O:338:ASP:HA	1:O:339:PRO:C	2.38	0.49
1:P:382:LEU:HD12	1:P:396:VAL:HG22	1.94	0.49
1:Q:241:PHE:HB3	1:Q:243:CYS:SG	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:273:GLN:HB2	1:Q:279:SER:HB2	1.93	0.49
1:R:88:ARG:O	1:R:194:PRO:HD2	2.12	0.49
1:S:60:ARG:HG3	1:S:177:MET:HG3	1.95	0.49
1:S:88:ARG:O	1:S:194:PRO:HD2	2.12	0.49
1:S:372:PRO:HB3	1:S:379:ASP:OD2	2.12	0.49
1:V:372:PRO:HB3	1:V:379:ASP:OD2	2.12	0.49
1:Y:88:ARG:O	1:Y:194:PRO:HD2	2.12	0.49
1:a:88:ARG:O	1:a:194:PRO:HD2	2.12	0.49
1:b:372:PRO:HB3	1:b:379:ASP:OD2	2.12	0.49
1:c:60:ARG:HG3	1:c:177:MET:HG3	1.95	0.49
1:c:372:PRO:HB3	1:c:379:ASP:OD2	2.12	0.49
1:d:372:PRO:HB3	1:d:379:ASP:OD2	2.12	0.49
1:e:372:PRO:HB3	1:e:379:ASP:OD2	2.12	0.49
1:f:372:PRO:HB3	1:f:379:ASP:OD2	2.12	0.49
1:g:241:PHE:HB3	1:g:243:CYS:SG	2.52	0.49
1:h:241:PHE:HB3	1:h:243:CYS:SG	2.52	0.49
1:i:372:PRO:HB3	1:i:379:ASP:OD2	2.12	0.49
1:k:163:HIS:HB2	1:k:421:ARG:HH22	1.77	0.49
1:l:229:LEU:HA	1:l:233:GLU:OE1	2.13	0.49
1:l:241:PHE:HB3	1:l:243:CYS:SG	2.52	0.49
1:n:241:PHE:HB3	1:n:243:CYS:SG	2.52	0.49
1:o:60:ARG:HG3	1:o:177:MET:HG3	1.95	0.49
1:o:88:ARG:O	1:o:194:PRO:HD2	2.12	0.49
1:p:163:HIS:HB2	1:p:421:ARG:HH22	1.77	0.49
1:p:382:LEU:HD12	1:p:396:VAL:HG22	1.94	0.49
1:q:372:PRO:HB3	1:q:379:ASP:OD2	2.12	0.49
1:r:372:PRO:HB3	1:r:379:ASP:OD2	2.12	0.49
1:x:88:ARG:O	1:x:194:PRO:HD2	2.12	0.49
1:z:241:PHE:HB3	1:z:243:CYS:SG	2.52	0.49
1:z:387:GLN:HA	1:1:305:VAL:HG22	1.94	0.49
1:1:174:GLU:OE1	1:1:359:PRO:HG3	2.11	0.49
1:1:229:LEU:HA	1:1:233:GLU:OE1	2.12	0.49
1:4:88:ARG:O	1:4:194:PRO:HD2	2.12	0.49
1:7:88:ARG:O	1:7:194:PRO:HD2	2.12	0.49
1:7:229:LEU:HD22	1:7:233:GLU:HB3	1.95	0.49
1:8:382:LEU:HD12	1:8:396:VAL:HG22	1.94	0.49
1:B:60:ARG:HG3	1:B:177:MET:HG3	1.95	0.49
1:B:241:PHE:HB3	1:B:243:CYS:SG	2.52	0.49
1:C:390:TYR:HE2	1:b:331:ALA:HB2	1.77	0.49
1:D:331:ALA:HB2	1:P:390:TYR:HE2	1.77	0.49
1:F:372:PRO:HB3	1:F:379:ASP:OD2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:382:LEU:HD12	1:F:396:VAL:HG22	1.94	0.49
1:G:229:LEU:HA	1:G:233:GLU:OE1	2.12	0.49
1:G:372:PRO:HB3	1:G:379:ASP:OD2	2.12	0.49
1:J:273:GLN:HB2	1:J:279:SER:HB2	1.93	0.49
1:M:204:ASP:OD1	1:M:205:ALA:N	2.45	0.49
1:N:163:HIS:HB2	1:N:421:ARG:HH22	1.77	0.49
1:O:229:LEU:HA	1:O:233:GLU:OE1	2.13	0.49
1:Q:60:ARG:HG3	1:Q:177:MET:HG3	1.95	0.49
1:Q:88:ARG:O	1:Q:194:PRO:HD2	2.12	0.49
1:V:163:HIS:HB2	1:V:421:ARG:HH22	1.77	0.49
1:V:305:VAL:HG22	1:X:387:GLN:HA	1.94	0.49
1:V:382:LEU:HD12	1:V:396:VAL:HG22	1.94	0.49
1:X:88:ARG:O	1:X:194:PRO:HD2	2.12	0.49
1:Y:229:LEU:HD22	1:Y:233:GLU:HB3	1.95	0.49
1:b:241:PHE:HB3	1:b:243:CYS:SG	2.52	0.49
1:c:387:GLN:HA	1:o:305:VAL:HG22	1.94	0.49
1:d:241:PHE:HB3	1:d:243:CYS:SG	2.52	0.49
1:e:60:ARG:HG3	1:e:177:MET:HG3	1.95	0.49
1:f:390:TYR:HE2	1:h:331:ALA:HB2	1.77	0.49
1:g:382:LEU:HD12	1:g:396:VAL:HG22	1.94	0.49
1:h:204:ASP:OD1	1:h:205:ALA:N	2.45	0.49
1:j:390:TYR:HE2	1:k:331:ALA:HB2	1.77	0.49
1:n:88:ARG:O	1:n:194:PRO:HD2	2.12	0.49
1:q:88:ARG:O	1:q:194:PRO:HD2	2.12	0.49
1:r:174:GLU:OE1	1:r:359:PRO:HG3	2.12	0.49
1:t:229:LEU:HA	1:t:233:GLU:OE1	2.12	0.49
1:u:229:LEU:HA	1:u:233:GLU:OE1	2.12	0.49
1:x:60:ARG:HG3	1:x:177:MET:HG3	1.95	0.49
1:y:136:LYS:NZ	1:y:149:ASN:OD1	2.37	0.49
1:y:382:LEU:HD12	1:y:396:VAL:HG22	1.94	0.49
1:z:174:GLU:OE1	1:z:359:PRO:HG3	2.12	0.49
1:1:60:ARG:HG3	1:1:177:MET:HG3	1.95	0.49
1:1:241:PHE:HB3	1:1:243:CYS:SG	2.52	0.49
1:1:390:TYR:HE2	1:2:331:ALA:HB2	1.77	0.49
1:2:88:ARG:O	1:2:194:PRO:HD2	2.12	0.49
1:2:338:ASP:HA	1:2:339:PRO:C	2.38	0.49
1:2:372:PRO:HB3	1:2:379:ASP:OD2	2.12	0.49
1:A:229:LEU:HD22	1:A:233:GLU:HB3	1.95	0.49
1:A:338:ASP:HA	1:A:339:PRO:C	2.38	0.49
1:B:338:ASP:HA	1:B:339:PRO:C	2.38	0.49
1:E:338:ASP:HA	1:E:339:PRO:C	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:60:ARG:HG3	1:F:177:MET:HG3	1.95	0.49
1:F:229:LEU:HD22	1:F:233:GLU:HB3	1.95	0.49
1:F:229:LEU:HA	1:F:233:GLU:OE1	2.12	0.49
1:G:229:LEU:HD22	1:G:233:GLU:HB3	1.95	0.49
1:H:387:GLN:HA	1:W:305:VAL:HG22	1.95	0.49
1:K:270:TYR:O	1:a:350:GLU:HG2	2.13	0.49
1:O:305:VAL:HG22	1:n:387:GLN:HA	1.94	0.49
1:O:331:ALA:HB2	1:n:390:TYR:HE2	1.77	0.49
1:R:78:ILE:HD12	1:R:79:PRO:HD2	1.95	0.49
1:S:229:LEU:HD22	1:S:233:GLU:HB3	1.95	0.49
1:X:60:ARG:HG3	1:X:177:MET:HG3	1.95	0.49
1:X:305:VAL:HG22	1:e:387:GLN:HA	1.94	0.49
1:Z:229:LEU:HA	1:Z:233:GLU:OE1	2.13	0.49
1:a:338:ASP:HA	1:a:339:PRO:C	2.38	0.49
1:d:88:ARG:O	1:d:194:PRO:HD2	2.12	0.49
1:g:78:ILE:HD12	1:g:79:PRO:HD2	1.95	0.49
1:h:60:ARG:HG3	1:h:177:MET:HG3	1.95	0.49
1:j:382:LEU:HD12	1:j:396:VAL:HG22	1.94	0.49
1:k:88:ARG:O	1:k:194:PRO:HD2	2.12	0.49
1:l:229:LEU:HD22	1:l:233:GLU:HB3	1.95	0.49
1:l:338:ASP:HA	1:l:339:PRO:C	2.38	0.49
1:o:78:ILE:HD12	1:o:79:PRO:HD2	1.95	0.49
1:r:229:LEU:HD22	1:r:233:GLU:HB3	1.95	0.49
1:t:372:PRO:HB3	1:t:379:ASP:OD2	2.12	0.49
1:v:229:LEU:HD22	1:v:233:GLU:HB3	1.95	0.49
1:v:338:ASP:HA	1:v:339:PRO:C	2.38	0.49
1:w:305:VAL:HG22	1:y:387:GLN:HA	1.93	0.49
1:w:338:ASP:HA	1:w:339:PRO:C	2.38	0.49
1:x:273:GLN:HB2	1:x:279:SER:HB2	1.93	0.49
1:x:338:ASP:HA	1:x:339:PRO:C	2.38	0.49
1:y:60:ARG:HG3	1:y:177:MET:HG3	1.95	0.49
1:y:229:LEU:HA	1:y:233:GLU:OE1	2.12	0.49
1:y:229:LEU:HD22	1:y:233:GLU:HB3	1.95	0.49
1:y:372:PRO:HB3	1:y:379:ASP:OD2	2.12	0.49
1:1:78:ILE:HD12	1:1:79:PRO:HD2	1.95	0.49
1:3:350:GLU:HG2	1:4:270:TYR:O	2.13	0.49
1:5:60:ARG:HG3	1:5:177:MET:HG3	1.95	0.49
1:5:372:PRO:HB3	1:5:379:ASP:OD2	2.12	0.49
1:5:387:GLN:HA	1:6:305:VAL:HG22	1.95	0.49
1:A:390:TYR:HE2	1:G:331:ALA:HB2	1.77	0.49
1:B:229:LEU:HD22	1:B:233:GLU:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:387:GLN:HA	1:b:305:VAL:HG22	1.94	0.49
1:D:88:ARG:O	1:D:194:PRO:HD2	2.12	0.49
1:E:491:ARG:O	1:E:492:ARG:NH1	2.40	0.49
1:H:60:ARG:HG3	1:H:177:MET:HG3	1.95	0.49
1:H:78:ILE:HD12	1:H:79:PRO:HD2	1.95	0.49
1:H:372:PRO:HB3	1:H:379:ASP:OD2	2.12	0.49
1:K:78:ILE:HD12	1:K:79:PRO:HD2	1.95	0.49
1:K:88:ARG:O	1:K:194:PRO:HD2	2.12	0.49
1:M:60:ARG:HG3	1:M:177:MET:HG3	1.95	0.49
1:M:163:HIS:HB2	1:M:421:ARG:HH22	1.77	0.49
1:O:229:LEU:HD22	1:O:233:GLU:HB3	1.95	0.49
1:P:78:ILE:HD12	1:P:79:PRO:HD2	1.95	0.49
1:P:163:HIS:HB2	1:P:421:ARG:HH22	1.77	0.49
1:Q:338:ASP:HA	1:Q:339:PRO:C	2.38	0.49
1:R:338:ASP:HA	1:R:339:PRO:C	2.38	0.49
1:S:174:GLU:OE1	1:S:359:PRO:HG3	2.12	0.49
1:T:60:ARG:HG3	1:T:177:MET:HG3	1.95	0.49
1:T:229:LEU:HA	1:T:233:GLU:OE1	2.12	0.49
1:T:270:TYR:O	1:d:350:GLU:HG2	2.13	0.49
1:U:179:GLU:OE2	1:U:411:ARG:NH1	2.38	0.49
1:V:229:LEU:HA	1:V:233:GLU:OE1	2.12	0.49
1:V:331:ALA:HB2	1:X:390:TYR:HE2	1.77	0.49
1:X:78:ILE:HD12	1:X:79:PRO:HD2	1.95	0.49
1:X:338:ASP:HA	1:X:339:PRO:C	2.38	0.49
1:a:372:PRO:HB3	1:a:379:ASP:OD2	2.12	0.49
1:c:229:LEU:HD22	1:c:233:GLU:HB3	1.95	0.49
1:d:387:GLN:HA	1:l:305:VAL:HG22	1.94	0.49
1:e:229:LEU:HD22	1:e:233:GLU:HB3	1.95	0.49
1:f:305:VAL:HG22	1:g:387:GLN:HA	1.94	0.49
1:h:136:LYS:NZ	1:h:149:ASN:OD1	2.37	0.49
1:i:163:HIS:HB2	1:i:421:ARG:HH22	1.77	0.49
1:j:78:ILE:HD12	1:j:79:PRO:HD2	1.95	0.49
1:j:163:HIS:HB2	1:j:421:ARG:HH22	1.77	0.49
1:j:229:LEU:HD22	1:j:233:GLU:HB3	1.95	0.49
1:m:60:ARG:HG3	1:m:177:MET:HG3	1.95	0.49
1:m:229:LEU:HD22	1:m:233:GLU:HB3	1.95	0.49
1:m:229:LEU:HA	1:m:233:GLU:OE1	2.12	0.49
1:m:270:TYR:O	1:n:350:GLU:HG2	2.13	0.49
1:m:390:TYR:HE2	1:n:331:ALA:HB2	1.77	0.49
1:p:229:LEU:HA	1:p:233:GLU:OE1	2.12	0.49
1:q:78:ILE:HD12	1:q:79:PRO:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:229:LEU:HD22	1:t:233:GLU:HB3	1.95	0.49
1:v:174:GLU:OE1	1:v:359:PRO:HG3	2.12	0.49
1:x:390:TYR:HE2	1:y:331:ALA:HB2	1.78	0.49
1:z:229:LEU:HA	1:z:233:GLU:OE1	2.12	0.49
1:1:338:ASP:HA	1:1:339:PRO:C	2.38	0.49
1:3:338:ASP:HA	1:3:339:PRO:C	2.38	0.49
1:3:491:ARG:O	1:3:492:ARG:NH1	2.40	0.49
1:5:78:ILE:HD12	1:5:79:PRO:HD2	1.95	0.49
1:6:338:ASP:HA	1:6:339:PRO:C	2.38	0.49
1:7:163:HIS:HB2	1:7:421:ARG:HH22	1.77	0.49
1:7:229:LEU:HA	1:7:233:GLU:OE1	2.13	0.49
1:8:229:LEU:HA	1:8:233:GLU:OE1	2.13	0.49
1:A:78:ILE:HD12	1:A:79:PRO:HD2	1.95	0.49
1:B:78:ILE:HD12	1:B:79:PRO:HD2	1.95	0.49
1:B:133:LEU:HD23	1:B:469:GLY:HA3	1.95	0.49
1:B:350:GLU:HG2	1:L:270:TYR:O	2.13	0.49
1:D:270:TYR:O	1:N:350:GLU:HG2	2.13	0.49
1:D:305:VAL:HG22	1:P:387:GLN:HA	1.95	0.49
1:E:305:VAL:HG22	1:F:387:GLN:HA	1.93	0.49
1:F:305:VAL:HG22	1:Q:387:GLN:HA	1.94	0.49
1:F:331:ALA:HB2	1:Q:390:TYR:HE2	1.78	0.49
1:J:229:LEU:HA	1:J:233:GLU:OE1	2.12	0.49
1:K:372:PRO:HB3	1:K:379:ASP:OD2	2.12	0.49
1:L:229:LEU:HA	1:L:233:GLU:OE1	2.12	0.49
1:M:78:ILE:HD12	1:M:79:PRO:HD2	1.95	0.49
1:M:133:LEU:HD23	1:M:469:GLY:HA3	1.95	0.49
1:M:305:VAL:HG22	1:b:387:GLN:HA	1.94	0.49
1:M:372:PRO:HB3	1:M:379:ASP:OD2	2.12	0.49
1:O:270:TYR:O	1:m:350:GLU:HG2	2.13	0.49
1:P:60:ARG:HG3	1:P:177:MET:HG3	1.95	0.49
1:P:229:LEU:HD22	1:P:233:GLU:HB3	1.95	0.49
1:T:229:LEU:HD22	1:T:233:GLU:HB3	1.95	0.49
1:T:350:GLU:HG2	1:l:270:TYR:O	2.13	0.49
1:T:390:TYR:HE2	1:d:331:ALA:HB2	1.77	0.49
1:U:163:HIS:HB2	1:U:421:ARG:HH22	1.77	0.49
1:W:387:GLN:HA	1:Y:305:VAL:HG22	1.95	0.49
1:Y:229:LEU:HA	1:Y:233:GLU:OE1	2.13	0.49
1:b:78:ILE:HD12	1:b:79:PRO:HD2	1.95	0.49
1:c:382:LEU:HD12	1:c:396:VAL:HG22	1.94	0.49
1:d:390:TYR:HE2	1:l:331:ALA:HB2	1.77	0.49
1:e:78:ILE:HD12	1:e:79:PRO:HD2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:229:LEU:HA	1:f:233:GLU:OE1	2.12	0.49
1:f:241:PHE:HB3	1:f:243:CYS:SG	2.52	0.49
1:g:229:LEU:HA	1:g:233:GLU:OE1	2.12	0.49
1:h:163:HIS:HB2	1:h:421:ARG:HH22	1.77	0.49
1:h:295:THR:HG23	1:h:380:GLN:HB3	1.95	0.49
1:i:350:GLU:HG2	1:k:270:TYR:O	2.13	0.49
1:j:60:ARG:HG3	1:j:177:MET:HG3	1.95	0.49
1:j:387:GLN:HA	1:k:305:VAL:HG22	1.95	0.49
1:o:338:ASP:HA	1:o:339:PRO:C	2.38	0.49
1:o:382:LEU:HD12	1:o:396:VAL:HG22	1.94	0.49
1:o:390:TYR:HE2	1:p:331:ALA:HB2	1.77	0.49
1:s:163:HIS:HB2	1:s:421:ARG:HH22	1.77	0.49
1:t:60:ARG:HG3	1:t:177:MET:HG3	1.95	0.49
1:t:331:ALA:HB2	1:v:390:TYR:HE2	1.77	0.49
1:u:133:LEU:HD23	1:u:469:GLY:HA3	1.95	0.49
1:x:270:TYR:O	1:y:350:GLU:HG2	2.13	0.49
1:y:133:LEU:HD23	1:y:469:GLY:HA3	1.95	0.49
1:z:133:LEU:HD23	1:z:469:GLY:HA3	1.95	0.49
1:1:133:LEU:HD23	1:1:469:GLY:HA3	1.95	0.49
1:1:229:LEU:HD22	1:1:233:GLU:HB3	1.95	0.49
1:2:229:LEU:HA	1:2:233:GLU:OE1	2.12	0.49
1:4:372:PRO:HB3	1:4:379:ASP:OD2	2.12	0.49
1:6:387:GLN:HA	1:7:305:VAL:HG22	1.95	0.49
1:A:174:GLU:OE1	1:A:359:PRO:HG3	2.12	0.48
1:A:372:PRO:HB3	1:A:379:ASP:OD2	2.12	0.48
1:C:78:ILE:HD12	1:C:79:PRO:HD2	1.95	0.48
1:C:229:LEU:HA	1:C:233:GLU:OE1	2.12	0.48
1:E:270:TYR:O	1:Q:350:GLU:HG2	2.13	0.48
1:F:133:LEU:HD23	1:F:469:GLY:HA3	1.95	0.48
1:F:350:GLU:HG2	1:Q:270:TYR:O	2.13	0.48
1:H:133:LEU:HD23	1:H:469:GLY:HA3	1.95	0.48
1:H:350:GLU:HG2	1:Y:270:TYR:O	2.13	0.48
1:I:133:LEU:HD23	1:I:469:GLY:HA3	1.95	0.48
1:L:133:LEU:HD23	1:L:469:GLY:HA3	1.95	0.48
1:M:295:THR:HG23	1:M:380:GLN:HB3	1.95	0.48
1:O:372:PRO:HB3	1:O:379:ASP:OD2	2.12	0.48
1:P:372:PRO:HB3	1:P:379:ASP:OD2	2.12	0.48
1:Q:229:LEU:HD22	1:Q:233:GLU:HB3	1.95	0.48
1:S:229:LEU:HA	1:S:233:GLU:OE1	2.12	0.48
1:T:133:LEU:HD23	1:T:469:GLY:HA3	1.95	0.48
1:T:382:LEU:HD12	1:T:396:VAL:HG22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:372:PRO:HB3	1:U:379:ASP:OD2	2.12	0.48
1:W:295:THR:HG23	1:W:380:GLN:HB3	1.95	0.48
1:W:338:ASP:HA	1:W:339:PRO:C	2.38	0.48
1:Y:163:HIS:HB2	1:Y:421:ARG:HH22	1.77	0.48
1:b:229:LEU:HA	1:b:233:GLU:OE1	2.12	0.48
1:c:78:ILE:HD12	1:c:79:PRO:HD2	1.95	0.48
1:e:382:LEU:HD12	1:e:396:VAL:HG22	1.94	0.48
1:f:78:ILE:HD12	1:f:79:PRO:HD2	1.95	0.48
1:f:387:GLN:HA	1:h:305:VAL:HG22	1.94	0.48
1:h:78:ILE:HD12	1:h:79:PRO:HD2	1.95	0.48
1:h:372:PRO:HB3	1:h:379:ASP:OD2	2.12	0.48
1:i:331:ALA:HB2	1:k:390:TYR:HE2	1.77	0.48
1:l:372:PRO:HB3	1:l:379:ASP:OD2	2.12	0.48
1:m:382:LEU:HD12	1:m:396:VAL:HG22	1.94	0.48
1:q:338:ASP:HA	1:q:339:PRO:C	2.38	0.48
1:r:229:LEU:HA	1:r:233:GLU:OE1	2.13	0.48
1:v:372:PRO:HB3	1:v:379:ASP:OD2	2.12	0.48
1:w:270:TYR:O	1:x:350:GLU:HG2	2.13	0.48
1:x:229:LEU:HD22	1:x:233:GLU:HB3	1.95	0.48
1:3:331:ALA:HB2	1:4:390:TYR:HE2	1.77	0.48
1:3:372:PRO:HB3	1:3:379:ASP:OD2	2.12	0.48
1:5:133:LEU:HD23	1:5:469:GLY:HA3	1.95	0.48
1:5:350:GLU:HG2	1:7:270:TYR:O	2.13	0.48
1:6:295:THR:HG23	1:6:380:GLN:HB3	1.95	0.48
1:7:372:PRO:HB3	1:7:379:ASP:OD2	2.12	0.48
1:A:295:THR:HG23	1:A:380:GLN:HB3	1.95	0.48
1:B:382:LEU:HD12	1:B:396:VAL:HG22	1.94	0.48
1:D:390:TYR:HE2	1:N:331:ALA:HB2	1.77	0.48
1:G:60:ARG:HG3	1:G:177:MET:HG3	1.95	0.48
1:H:229:LEU:HD22	1:H:233:GLU:HB3	1.95	0.48
1:K:390:TYR:HE2	1:a:331:ALA:HB2	1.77	0.48
1:N:133:LEU:HD23	1:N:469:GLY:HA3	1.95	0.48
1:N:338:ASP:HA	1:N:339:PRO:C	2.38	0.48
1:R:295:THR:HG23	1:R:380:GLN:HB3	1.95	0.48
1:T:295:THR:HG23	1:T:380:GLN:HB3	1.95	0.48
1:T:387:GLN:HA	1:d:305:VAL:HG22	1.94	0.48
1:U:88:ARG:O	1:U:194:PRO:HD2	2.12	0.48
1:U:382:LEU:HD12	1:U:396:VAL:HG22	1.94	0.48
1:U:488:ARG:O	1:V:109:GLN:NE2	2.46	0.48
1:V:78:ILE:HD12	1:V:79:PRO:HD2	1.95	0.48
1:X:295:THR:HG23	1:X:380:GLN:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:372:PRO:HB3	1:X:379:ASP:OD2	2.12	0.48
1:X:382:LEU:HD12	1:X:396:VAL:HG22	1.94	0.48
1:Y:133:LEU:HD23	1:Y:469:GLY:HA3	1.95	0.48
1:Y:372:PRO:HB3	1:Y:379:ASP:OD2	2.12	0.48
1:Z:133:LEU:HD23	1:Z:469:GLY:HA3	1.95	0.48
1:c:390:TYR:HE2	1:o:331:ALA:HB2	1.77	0.48
1:d:382:LEU:HD12	1:d:396:VAL:HG22	1.94	0.48
1:f:133:LEU:HD23	1:f:469:GLY:HA3	1.95	0.48
1:h:133:LEU:HD23	1:h:469:GLY:HA3	1.95	0.48
1:i:133:LEU:HD23	1:i:469:GLY:HA3	1.95	0.48
1:i:338:ASP:HA	1:i:339:PRO:C	2.38	0.48
1:j:372:PRO:HB3	1:j:379:ASP:OD2	2.12	0.48
1:m:133:LEU:HD23	1:m:469:GLY:HA3	1.95	0.48
1:m:295:THR:HG23	1:m:380:GLN:HB3	1.95	0.48
1:n:382:LEU:HD12	1:n:396:VAL:HG22	1.95	0.48
1:o:229:LEU:HA	1:o:233:GLU:OE1	2.13	0.48
1:o:295:THR:HG23	1:o:380:GLN:HB3	1.95	0.48
1:o:372:PRO:HB3	1:o:379:ASP:OD2	2.12	0.48
1:p:109:GLN:NE2	1:s:488:ARG:O	2.46	0.48
1:q:295:THR:HG23	1:q:380:GLN:HB3	1.95	0.48
1:v:78:ILE:HD12	1:v:79:PRO:HD2	1.95	0.48
1:v:295:THR:HG23	1:v:380:GLN:HB3	1.95	0.48
1:x:387:GLN:HA	1:y:305:VAL:HG22	1.94	0.48
1:1:382:LEU:HD12	1:1:396:VAL:HG22	1.94	0.48
1:3:163:HIS:HB2	1:3:421:ARG:HH22	1.77	0.48
1:4:229:LEU:HD22	1:4:233:GLU:HB3	1.95	0.48
1:6:390:TYR:HE2	1:7:331:ALA:HB2	1.77	0.48
1:7:133:LEU:HD23	1:7:469:GLY:HA3	1.95	0.48
1:8:78:ILE:HD12	1:8:79:PRO:HD2	1.95	0.48
1:8:133:LEU:HD23	1:8:469:GLY:HA3	1.95	0.48
1:8:338:ASP:HA	1:8:339:PRO:C	2.38	0.48
1:B:372:PRO:HB3	1:B:379:ASP:OD2	2.12	0.48
1:C:436:ALA:C	1:C:437:MET:HG3	2.39	0.48
1:D:372:PRO:HB3	1:D:379:ASP:OD2	2.12	0.48
1:D:382:LEU:HD12	1:D:396:VAL:HG22	1.94	0.48
1:H:382:LEU:HD12	1:H:396:VAL:HG22	1.94	0.48
1:K:229:LEU:HD22	1:K:233:GLU:HB3	1.95	0.48
1:M:136:LYS:NZ	1:M:149:ASN:OD1	2.37	0.48
1:N:78:ILE:HD12	1:N:79:PRO:HD2	1.95	0.48
1:S:387:GLN:HA	1:U:305:VAL:HG22	1.94	0.48
1:Z:78:ILE:HD12	1:Z:79:PRO:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:338:ASP:HA	1:Z:339:PRO:C	2.38	0.48
1:c:88:ARG:O	1:c:194:PRO:HD2	2.12	0.48
1:c:270:TYR:O	1:o:350:GLU:HG2	2.14	0.48
1:d:78:ILE:HD12	1:d:79:PRO:HD2	1.95	0.48
1:e:88:ARG:O	1:e:194:PRO:HD2	2.12	0.48
1:g:436:ALA:C	1:g:437:MET:HG3	2.39	0.48
1:i:78:ILE:HD12	1:i:79:PRO:HD2	1.95	0.48
1:i:229:LEU:HA	1:i:233:GLU:OE1	2.13	0.48
1:l:295:THR:HG23	1:l:380:GLN:HB3	1.95	0.48
1:m:387:GLN:HA	1:n:305:VAL:HG22	1.94	0.48
1:n:78:ILE:HD12	1:n:79:PRO:HD2	1.95	0.48
1:p:78:ILE:HD12	1:p:79:PRO:HD2	1.95	0.48
1:q:270:TYR:O	1:r:350:GLU:HG2	2.13	0.48
1:s:372:PRO:HB3	1:s:379:ASP:OD2	2.12	0.48
1:s:382:LEU:HD12	1:s:396:VAL:HG22	1.94	0.48
1:w:491:ARG:O	1:w:492:ARG:NH1	2.40	0.48
1:3:133:LEU:HD23	1:3:469:GLY:HA3	1.95	0.48
1:4:78:ILE:HD12	1:4:79:PRO:HD2	1.95	0.48
1:5:229:LEU:HD22	1:5:233:GLU:HB3	1.95	0.48
1:5:382:LEU:HD12	1:5:396:VAL:HG22	1.94	0.48
1:6:372:PRO:HB3	1:6:379:ASP:OD2	2.12	0.48
1:8:372:PRO:HB3	1:8:379:ASP:OD2	2.12	0.48
1:B:88:ARG:O	1:B:194:PRO:HD2	2.12	0.48
1:D:338:ASP:HA	1:D:339:PRO:C	2.38	0.48
1:F:295:THR:HG23	1:F:380:GLN:HB3	1.95	0.48
1:J:109:GLN:NE2	1:K:488:ARG:O	2.47	0.48
1:J:387:GLN:HA	1:L:305:VAL:HG22	1.95	0.48
1:K:229:LEU:HA	1:K:233:GLU:OE1	2.12	0.48
1:K:436:ALA:C	1:K:437:MET:HG3	2.39	0.48
1:O:295:THR:HG23	1:O:380:GLN:HB3	1.96	0.48
1:R:229:LEU:HD22	1:R:233:GLU:HB3	1.95	0.48
1:R:270:TYR:O	1:S:350:GLU:HG2	2.13	0.48
1:T:338:ASP:HA	1:T:339:PRO:C	2.38	0.48
1:W:372:PRO:HB3	1:W:379:ASP:OD2	2.12	0.48
1:W:382:LEU:HD12	1:W:396:VAL:HG22	1.94	0.48
1:W:390:TYR:HE2	1:Y:331:ALA:HB2	1.77	0.48
1:X:229:LEU:HA	1:X:233:GLU:OE1	2.13	0.48
1:X:331:ALA:HB2	1:e:390:TYR:HE2	1.77	0.48
1:X:350:GLU:HG2	1:e:270:TYR:O	2.14	0.48
1:a:163:HIS:HB2	1:a:421:ARG:HH22	1.77	0.48
1:b:133:LEU:HD23	1:b:469:GLY:HA3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:179:GLU:OE2	1:c:411:ARG:NH1	2.38	0.48
1:e:338:ASP:HA	1:e:339:PRO:C	2.38	0.48
1:g:305:VAL:HG22	1:h:387:GLN:HA	1.94	0.48
1:i:295:THR:HG23	1:i:380:GLN:HB3	1.95	0.48
1:k:372:PRO:HB3	1:k:379:ASP:OD2	2.12	0.48
1:k:382:LEU:HD12	1:k:396:VAL:HG22	1.94	0.48
1:o:229:LEU:HD22	1:o:233:GLU:HB3	1.95	0.48
1:r:387:GLN:HA	1:s:305:VAL:HG22	1.94	0.48
1:s:88:ARG:O	1:s:194:PRO:HD2	2.12	0.48
1:t:270:TYR:O	1:u:350:GLU:HG2	2.13	0.48
1:u:29:GLY:N	1:2:234:SER:O	2.32	0.48
1:w:133:LEU:HD23	1:w:469:GLY:HA3	1.95	0.48
1:z:338:ASP:HA	1:z:339:PRO:C	2.38	0.48
1:1:88:ARG:O	1:1:194:PRO:HD2	2.12	0.48
1:4:229:LEU:HA	1:4:233:GLU:OE1	2.12	0.48
1:5:305:VAL:HG22	1:7:387:GLN:HA	1.94	0.48
1:5:338:ASP:HA	1:5:339:PRO:C	2.38	0.48
1:6:382:LEU:HD12	1:6:396:VAL:HG22	1.94	0.48
1:E:350:GLU:HG2	1:F:270:TYR:O	2.14	0.48
1:E:382:LEU:HD12	1:E:396:VAL:HG22	1.94	0.48
1:H:88:ARG:O	1:H:194:PRO:HD2	2.12	0.48
1:K:331:ALA:HB2	1:8:390:TYR:HE2	1.77	0.48
1:L:436:ALA:C	1:L:437:MET:HG3	2.39	0.48
1:N:229:LEU:HA	1:N:233:GLU:OE1	2.13	0.48
1:N:295:THR:HG23	1:N:380:GLN:HB3	1.95	0.48
1:N:436:ALA:C	1:N:437:MET:HG3	2.39	0.48
1:O:350:GLU:HG2	1:n:270:TYR:O	2.13	0.48
1:O:382:LEU:HD12	1:O:396:VAL:HG22	1.94	0.48
1:O:436:ALA:C	1:O:437:MET:HG3	2.39	0.48
1:R:390:TYR:HE2	1:S:331:ALA:HB2	1.77	0.48
1:X:229:LEU:HD22	1:X:233:GLU:HB3	1.95	0.48
1:Z:372:PRO:HB3	1:Z:379:ASP:OD2	2.12	0.48
1:a:133:LEU:HD23	1:a:469:GLY:HA3	1.95	0.48
1:c:295:THR:HG23	1:c:380:GLN:HB3	1.95	0.48
1:d:133:LEU:HD23	1:d:469:GLY:HA3	1.95	0.48
1:e:295:THR:HG23	1:e:380:GLN:HB3	1.95	0.48
1:f:338:ASP:HA	1:f:339:PRO:C	2.38	0.48
1:f:436:ALA:C	1:f:437:MET:HG3	2.39	0.48
1:g:372:PRO:HB3	1:g:379:ASP:OD2	2.12	0.48
1:i:305:VAL:HG22	1:k:387:GLN:HA	1.95	0.48
1:i:436:ALA:C	1:i:437:MET:HG3	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:270:TYR:O	1:k:350:GLU:HG2	2.13	0.48
1:j:338:ASP:HA	1:j:339:PRO:C	2.38	0.48
1:k:338:ASP:HA	1:k:339:PRO:C	2.38	0.48
1:l:382:LEU:HD12	1:l:396:VAL:HG22	1.94	0.48
1:l:436:ALA:C	1:l:437:MET:HG3	2.39	0.48
1:n:133:LEU:HD23	1:n:469:GLY:HA3	1.95	0.48
1:n:295:THR:HG23	1:n:380:GLN:HB3	1.95	0.48
1:o:163:HIS:HB2	1:o:421:ARG:HH22	1.77	0.48
1:o:270:TYR:O	1:p:350:GLU:HG2	2.14	0.48
1:q:229:LEU:HD22	1:q:233:GLU:HB3	1.95	0.48
1:q:390:TYR:HE2	1:r:331:ALA:HB2	1.77	0.48
1:s:338:ASP:HA	1:s:339:PRO:C	2.38	0.48
1:w:350:GLU:HG2	1:y:270:TYR:O	2.14	0.48
1:y:295:THR:HG23	1:y:380:GLN:HB3	1.95	0.48
1:z:436:ALA:C	1:z:437:MET:HG3	2.39	0.48
1:1:372:PRO:HB3	1:1:379:ASP:OD2	2.12	0.48
1:5:88:ARG:O	1:5:194:PRO:HD2	2.12	0.48
1:6:163:HIS:HB2	1:6:421:ARG:HH22	1.77	0.48
1:A:109:GLN:NE2	1:F:488:ARG:O	2.47	0.48
1:A:350:GLU:HG2	1:I:270:TYR:O	2.13	0.48
1:B:436:ALA:C	1:B:437:MET:HG3	2.39	0.48
1:C:372:PRO:HB3	1:C:379:ASP:OD2	2.12	0.48
1:D:350:GLU:HG2	1:P:270:TYR:O	2.13	0.48
1:D:387:GLN:HA	1:N:305:VAL:HG22	1.95	0.48
1:E:133:LEU:HD23	1:E:469:GLY:HA3	1.95	0.48
1:G:133:LEU:HD23	1:G:469:GLY:HA3	1.95	0.48
1:G:270:TYR:O	1:I:350:GLU:HG2	2.13	0.48
1:H:338:ASP:HA	1:H:339:PRO:C	2.38	0.48
1:I:436:ALA:C	1:I:437:MET:HG3	2.39	0.48
1:L:295:THR:HG23	1:L:380:GLN:HB3	1.95	0.48
1:L:338:ASP:HA	1:L:339:PRO:C	2.38	0.48
1:O:409:ILE:H	1:O:530:ILE:HG12	1.79	0.48
1:P:295:THR:HG23	1:P:380:GLN:HB3	1.95	0.48
1:P:338:ASP:HA	1:P:339:PRO:C	2.38	0.48
1:R:133:LEU:HD23	1:R:469:GLY:HA3	1.95	0.48
1:R:229:LEU:HA	1:R:233:GLU:OE1	2.12	0.48
1:S:270:TYR:O	1:U:350:GLU:HG2	2.14	0.48
1:U:229:LEU:HD22	1:U:233:GLU:HB3	1.95	0.48
1:U:338:ASP:HA	1:U:339:PRO:C	2.38	0.48
1:V:350:GLU:HG2	1:X:270:TYR:O	2.14	0.48
1:W:133:LEU:HD23	1:W:469:GLY:HA3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:163:HIS:HB2	1:X:421:ARG:HH22	1.77	0.48
1:Z:390:TYR:HE2	1:4:331:ALA:HB2	1.77	0.48
1:b:229:LEU:HD22	1:b:233:GLU:HB3	1.95	0.48
1:b:436:ALA:C	1:b:437:MET:HG3	2.39	0.48
1:d:270:TYR:O	1:l:350:GLU:HG2	2.13	0.48
1:d:295:THR:HG23	1:d:380:GLN:HB3	1.95	0.48
1:f:382:LEU:HD12	1:f:396:VAL:HG22	1.94	0.48
1:g:109:GLN:NE2	1:z:488:ARG:O	2.46	0.48
1:j:295:THR:HG23	1:j:380:GLN:HB3	1.95	0.48
1:p:133:LEU:HD23	1:p:469:GLY:HA3	1.95	0.48
1:q:229:LEU:HA	1:q:233:GLU:OE1	2.12	0.48
1:r:270:TYR:O	1:s:350:GLU:HG2	2.14	0.48
1:t:133:LEU:HD23	1:t:469:GLY:HA3	1.95	0.48
1:w:382:LEU:HD12	1:w:396:VAL:HG22	1.94	0.48
1:w:436:ALA:C	1:w:437:MET:HG3	2.39	0.48
1:1:436:ALA:C	1:1:437:MET:HG3	2.39	0.48
1:4:357:GLN:NE2	1:4:368:ILE:HD12	2.29	0.48
1:4:436:ALA:C	1:4:437:MET:HG3	2.39	0.48
1:A:133:LEU:HD23	1:A:469:GLY:HA3	1.95	0.48
1:A:229:LEU:HA	1:A:233:GLU:OE1	2.12	0.48
1:C:305:VAL:HG22	1:M:387:GLN:HA	1.95	0.48
1:D:133:LEU:HD23	1:D:469:GLY:HA3	1.95	0.48
1:D:436:ALA:C	1:D:437:MET:HG3	2.39	0.48
1:E:436:ALA:C	1:E:437:MET:HG3	2.39	0.48
1:F:88:ARG:O	1:F:194:PRO:HD2	2.12	0.48
1:H:305:VAL:HG22	1:Y:387:GLN:HA	1.94	0.48
1:J:78:ILE:HD12	1:J:79:PRO:HD2	1.95	0.48
1:J:133:LEU:HD23	1:J:469:GLY:HA3	1.95	0.48
1:K:133:LEU:HD23	1:K:469:GLY:HA3	1.95	0.48
1:K:338:ASP:HA	1:K:339:PRO:C	2.38	0.48
1:K:357:GLN:NE2	1:K:368:ILE:HD12	2.29	0.48
1:R:60:ARG:HG3	1:R:177:MET:HG3	1.95	0.48
1:U:295:THR:HG23	1:U:380:GLN:HB3	1.96	0.48
1:V:60:ARG:HG3	1:V:177:MET:HG3	1.95	0.48
1:W:163:HIS:HB2	1:W:421:ARG:HH22	1.77	0.48
1:X:436:ALA:C	1:X:437:MET:HG3	2.39	0.48
1:Y:109:GLN:NE2	1:Z:488:ARG:O	2.47	0.48
1:Y:382:LEU:HD12	1:Y:396:VAL:HG22	1.94	0.48
1:b:382:LEU:HD12	1:b:396:VAL:HG22	1.94	0.48
1:c:338:ASP:HA	1:c:339:PRO:C	2.38	0.48
1:f:229:LEU:HD22	1:f:233:GLU:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:133:LEU:HD23	1:k:469:GLY:HA3	1.95	0.48
1:l:409:ILE:H	1:l:530:ILE:HG12	1.79	0.48
1:m:338:ASP:HA	1:m:339:PRO:C	2.38	0.48
1:o:133:LEU:HD23	1:o:469:GLY:HA3	1.95	0.48
1:p:51:ASP:OD1	1:p:481:ARG:NE	2.39	0.48
1:p:60:ARG:HG3	1:p:177:MET:HG3	1.95	0.48
1:q:60:ARG:HG3	1:q:177:MET:HG3	1.95	0.48
1:q:133:LEU:HD23	1:q:469:GLY:HA3	1.95	0.48
1:r:295:THR:HG23	1:r:380:GLN:HB3	1.95	0.48
1:s:60:ARG:HG3	1:s:177:MET:HG3	1.95	0.48
1:s:229:LEU:HD22	1:s:233:GLU:HB3	1.95	0.48
1:u:436:ALA:C	1:u:437:MET:HG3	2.39	0.48
1:v:60:ARG:HG3	1:v:177:MET:HG3	1.95	0.48
1:v:133:LEU:HD23	1:v:469:GLY:HA3	1.95	0.48
1:z:229:LEU:HD22	1:z:233:GLU:HB3	1.95	0.48
1:z:295:THR:HG23	1:z:380:GLN:HB3	1.96	0.48
1:1:409:ILE:H	1:1:530:ILE:HG12	1.79	0.48
1:3:409:ILE:H	1:3:530:ILE:HG12	1.79	0.48
1:4:133:LEU:HD23	1:4:469:GLY:HA3	1.95	0.48
1:4:136:LYS:NZ	1:4:149:ASN:OD1	2.37	0.48
1:4:382:LEU:HD12	1:4:396:VAL:HG22	1.94	0.48
1:6:133:LEU:HD23	1:6:469:GLY:HA3	1.95	0.48
1:7:382:LEU:HD12	1:7:396:VAL:HG22	1.94	0.48
1:8:436:ALA:C	1:8:437:MET:HG3	2.39	0.48
1:A:60:ARG:HG3	1:A:177:MET:HG3	1.95	0.48
1:B:305:VAL:HG22	1:L:387:GLN:HA	1.95	0.48
1:B:409:ILE:H	1:B:530:ILE:HG12	1.79	0.48
1:D:109:GLN:NE2	1:M:488:ARG:O	2.47	0.48
1:E:60:ARG:HG3	1:E:177:MET:HG3	1.95	0.48
1:G:338:ASP:HA	1:G:339:PRO:C	2.38	0.48
1:I:29:GLY:N	1:J:234:SER:O	2.32	0.48
1:J:382:LEU:HD12	1:J:396:VAL:HG22	1.94	0.48
1:J:436:ALA:C	1:J:437:MET:HG3	2.39	0.48
1:L:229:LEU:HD22	1:L:233:GLU:HB3	1.95	0.48
1:O:163:HIS:HB2	1:O:421:ARG:HH22	1.77	0.48
1:U:78:ILE:HD12	1:U:79:PRO:HD2	1.95	0.48
1:X:133:LEU:HD23	1:X:469:GLY:HA3	1.95	0.48
1:a:409:ILE:H	1:a:530:ILE:HG12	1.79	0.48
1:b:409:ILE:H	1:b:530:ILE:HG12	1.79	0.48
1:d:436:ALA:C	1:d:437:MET:HG3	2.39	0.48
1:e:179:GLU:OE2	1:e:411:ARG:NH1	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:409:ILE:H	1:f:530:ILE:HG12	1.79	0.48
1:g:133:LEU:HD23	1:g:469:GLY:HA3	1.95	0.48
1:h:229:LEU:HD22	1:h:233:GLU:HB3	1.95	0.48
1:h:488:ARG:O	1:k:109:GLN:NE2	2.47	0.48
1:i:387:GLN:HA	1:j:305:VAL:HG22	1.94	0.48
1:k:436:ALA:C	1:k:437:MET:HG3	2.39	0.48
1:n:436:ALA:C	1:n:437:MET:HG3	2.39	0.48
1:o:436:ALA:C	1:o:437:MET:HG3	2.39	0.48
1:r:338:ASP:HA	1:r:339:PRO:C	2.38	0.48
1:s:295:THR:HG23	1:s:380:GLN:HB3	1.96	0.48
1:u:229:LEU:HD22	1:u:233:GLU:HB3	1.95	0.48
1:u:270:TYR:O	1:v:350:GLU:HG2	2.13	0.48
1:v:109:GLN:NE2	1:y:488:ARG:O	2.47	0.48
1:w:60:ARG:HG3	1:w:177:MET:HG3	1.95	0.48
1:w:78:ILE:HD12	1:w:79:PRO:HD2	1.95	0.48
1:1:387:GLN:HA	1:2:305:VAL:HG22	1.94	0.48
1:2:78:ILE:HD12	1:2:79:PRO:HD2	1.95	0.48
1:2:133:LEU:HD23	1:2:469:GLY:HA3	1.96	0.48
1:2:382:LEU:HD12	1:2:396:VAL:HG22	1.94	0.48
1:2:436:ALA:C	1:2:437:MET:HG3	2.39	0.48
1:3:60:ARG:HG3	1:3:177:MET:HG3	1.95	0.48
1:4:338:ASP:HA	1:4:339:PRO:C	2.38	0.48
1:7:109:GLN:NE2	1:8:488:ARG:O	2.47	0.48
1:A:270:TYR:O	1:G:350:GLU:HG2	2.14	0.48
1:E:78:ILE:HD12	1:E:79:PRO:HD2	1.95	0.48
1:E:229:LEU:HA	1:E:233:GLU:OE1	2.12	0.48
1:E:387:GLN:HA	1:Q:305:VAL:HG22	1.94	0.48
1:I:229:LEU:HD22	1:I:233:GLU:HB3	1.95	0.48
1:I:295:THR:HG23	1:I:380:GLN:HB3	1.95	0.48
1:I:409:ILE:H	1:I:530:ILE:HG12	1.79	0.48
1:K:382:LEU:HD12	1:K:396:VAL:HG22	1.94	0.48
1:M:229:LEU:HD22	1:M:233:GLU:HB3	1.95	0.48
1:M:338:ASP:HA	1:M:339:PRO:C	2.38	0.48
1:N:387:GLN:HA	1:P:305:VAL:HG22	1.94	0.48
1:N:409:ILE:H	1:N:530:ILE:HG12	1.79	0.48
1:Q:295:THR:HG23	1:Q:380:GLN:HB3	1.96	0.48
1:S:338:ASP:HA	1:S:339:PRO:C	2.38	0.48
1:S:436:ALA:C	1:S:437:MET:HG3	2.39	0.48
1:T:179:GLU:OE2	1:T:411:ARG:NH1	2.38	0.48
1:U:60:ARG:HG3	1:U:177:MET:HG3	1.95	0.48
1:U:357:GLN:NE2	1:U:368:ILE:HD12	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:436:ALA:C	1:U:437:MET:HG3	2.39	0.48
1:V:133:LEU:HD23	1:V:469:GLY:HA3	1.96	0.48
1:W:78:ILE:HD12	1:W:79:PRO:HD2	1.95	0.48
1:W:409:ILE:H	1:W:530:ILE:HG12	1.79	0.48
1:Y:78:ILE:HD12	1:Y:79:PRO:HD2	1.95	0.48
1:Z:436:ALA:C	1:Z:437:MET:HG3	2.39	0.48
1:a:60:ARG:HG3	1:a:177:MET:HG3	1.95	0.48
1:a:78:ILE:HD12	1:a:79:PRO:HD2	1.95	0.48
1:b:338:ASP:HA	1:b:339:PRO:C	2.38	0.48
1:e:491:ARG:O	1:e:492:ARG:NH1	2.40	0.48
1:h:338:ASP:HA	1:h:339:PRO:C	2.38	0.48
1:l:163:HIS:HB2	1:l:421:ARG:HH22	1.77	0.48
1:n:338:ASP:HA	1:n:339:PRO:C	2.38	0.48
1:r:436:ALA:C	1:r:437:MET:HG3	2.39	0.48
1:s:78:ILE:HD12	1:s:79:PRO:HD2	1.95	0.48
1:s:357:GLN:NE2	1:s:368:ILE:HD12	2.29	0.48
1:s:436:ALA:C	1:s:437:MET:HG3	2.39	0.48
1:t:338:ASP:HA	1:t:339:PRO:C	2.38	0.48
1:t:350:GLU:HG2	1:v:270:TYR:O	2.14	0.48
1:u:409:ILE:H	1:u:530:ILE:HG12	1.79	0.48
1:v:229:LEU:HA	1:v:233:GLU:OE1	2.12	0.48
1:w:229:LEU:HA	1:w:233:GLU:OE1	2.12	0.48
1:y:88:ARG:O	1:y:194:PRO:HD2	2.12	0.48
1:y:338:ASP:HA	1:y:339:PRO:C	2.38	0.48
1:2:109:GLN:NE2	1:4:488:ARG:O	2.47	0.48
1:2:357:GLN:NE2	1:2:368:ILE:HD12	2.29	0.48
1:2:488:ARG:O	1:4:109:GLN:NE2	2.47	0.48
1:3:78:ILE:HD12	1:3:79:PRO:HD2	1.95	0.48
1:F:436:ALA:C	1:F:437:MET:HG3	2.39	0.48
1:G:357:GLN:NE2	1:G:368:ILE:HD12	2.29	0.48
1:J:229:LEU:HD22	1:J:233:GLU:HB3	1.95	0.48
1:J:295:THR:HG23	1:J:380:GLN:HB3	1.95	0.48
1:J:357:GLN:NE2	1:J:368:ILE:HD12	2.29	0.48
1:K:350:GLU:HG2	1:8:270:TYR:O	2.13	0.48
1:L:78:ILE:HD12	1:L:79:PRO:HD2	1.95	0.48
1:L:409:ILE:H	1:L:530:ILE:HG12	1.79	0.48
1:L:491:ARG:O	1:L:492:ARG:NH1	2.40	0.48
1:M:409:ILE:H	1:M:530:ILE:HG12	1.79	0.48
1:Q:78:ILE:HD12	1:Q:79:PRO:HD2	1.95	0.48
1:R:382:LEU:HD12	1:R:396:VAL:HG22	1.94	0.48
1:S:136:LYS:NZ	1:S:149:ASN:OD1	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:179:GLU:OE2	1:S:411:ARG:NH1	2.38	0.48
1:S:295:THR:HG23	1:S:380:GLN:HB3	1.96	0.48
1:T:134:GLN:NE2	1:U:153:ALA:HA	2.29	0.48
1:T:357:GLN:NE2	1:T:368:ILE:HD12	2.29	0.48
1:V:270:TYR:O	1:e:350:GLU:HG2	2.14	0.48
1:V:338:ASP:HA	1:V:339:PRO:C	2.38	0.48
1:W:88:ARG:O	1:W:194:PRO:HD2	2.12	0.48
1:W:109:GLN:NE2	1:X:488:ARG:O	2.47	0.48
1:X:409:ILE:H	1:X:530:ILE:HG12	1.79	0.48
1:Y:488:ARG:O	1:Z:109:GLN:NE2	2.47	0.48
1:Z:270:TYR:O	1:4:350:GLU:HG2	2.13	0.48
1:a:270:TYR:O	1:8:350:GLU:HG2	2.13	0.48
1:d:109:GLN:NE2	1:n:488:ARG:O	2.47	0.48
1:d:488:ARG:O	1:n:109:GLN:NE2	2.47	0.48
1:i:409:ILE:H	1:i:530:ILE:HG12	1.79	0.48
1:j:378:ARG:HD2	1:j:378:ARG:HA	1.73	0.48
1:m:134:GLN:NE2	1:s:153:ALA:HA	2.29	0.48
1:o:109:GLN:NE2	1:6:488:ARG:O	2.47	0.48
1:p:357:GLN:NE2	1:p:368:ILE:HD12	2.29	0.48
1:p:409:ILE:H	1:p:530:ILE:HG12	1.79	0.48
1:r:133:LEU:HD23	1:r:469:GLY:HA3	1.95	0.48
1:t:357:GLN:NE2	1:t:368:ILE:HD12	2.29	0.48
1:u:295:THR:HG23	1:u:380:GLN:HB3	1.96	0.48
1:v:409:ILE:H	1:v:530:ILE:HG12	1.79	0.48
1:w:387:GLN:HA	1:x:305:VAL:HG22	1.94	0.48
1:x:78:ILE:HD12	1:x:79:PRO:HD2	1.95	0.48
1:x:295:THR:HG23	1:x:380:GLN:HB3	1.96	0.48
1:z:78:ILE:HD12	1:z:79:PRO:HD2	1.95	0.48
1:z:409:ILE:H	1:z:530:ILE:HG12	1.79	0.48
1:z:491:ARG:O	1:z:492:ARG:NH1	2.40	0.48
1:2:229:LEU:HD22	1:2:233:GLU:HB3	1.95	0.48
1:5:390:TYR:HE2	1:6:331:ALA:HB2	1.77	0.48
1:6:78:ILE:HD12	1:6:79:PRO:HD2	1.95	0.48
1:6:88:ARG:O	1:6:194:PRO:HD2	2.12	0.48
1:6:409:ILE:H	1:6:530:ILE:HG12	1.79	0.48
1:7:78:ILE:HD12	1:7:79:PRO:HD2	1.95	0.48
1:7:488:ARG:O	1:8:109:GLN:NE2	2.47	0.48
1:C:133:LEU:HD23	1:C:469:GLY:HA3	1.96	0.47
1:D:136:LYS:NZ	1:D:149:ASN:OD1	2.37	0.47
1:E:229:LEU:HD22	1:E:233:GLU:HB3	1.95	0.47
1:E:295:THR:HG23	1:E:380:GLN:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:78:ILE:HD12	1:F:79:PRO:HD2	1.95	0.47
1:F:338:ASP:HA	1:F:339:PRO:C	2.38	0.47
1:G:295:THR:HG23	1:G:380:GLN:HB3	1.95	0.47
1:K:136:LYS:NZ	1:K:149:ASN:OD1	2.37	0.47
1:L:357:GLN:NE2	1:L:368:ILE:HD12	2.29	0.47
1:S:133:LEU:HD23	1:S:469:GLY:HA3	1.96	0.47
1:V:357:GLN:NE2	1:V:368:ILE:HD12	2.29	0.47
1:V:409:ILE:H	1:V:530:ILE:HG12	1.79	0.47
1:W:270:TYR:O	1:Y:350:GLU:HG2	2.13	0.47
1:W:488:ARG:O	1:X:109:GLN:NE2	2.47	0.47
1:Z:350:GLU:HG2	1:3:270:TYR:O	2.13	0.47
1:a:229:LEU:HD22	1:a:233:GLU:HB3	1.95	0.47
1:b:109:GLN:NE2	1:c:488:ARG:O	2.47	0.47
1:c:350:GLU:HG2	1:p:270:TYR:O	2.14	0.47
1:e:488:ARG:O	1:f:109:GLN:NE2	2.47	0.47
1:h:409:ILE:H	1:h:530:ILE:HG12	1.79	0.47
1:k:409:ILE:H	1:k:530:ILE:HG12	1.79	0.47
1:m:357:GLN:NE2	1:m:368:ILE:HD12	2.29	0.47
1:o:409:ILE:H	1:o:530:ILE:HG12	1.79	0.47
1:o:488:ARG:O	1:6:109:GLN:NE2	2.47	0.47
1:p:338:ASP:HA	1:p:339:PRO:C	2.38	0.47
1:p:436:ALA:C	1:p:437:MET:HG3	2.39	0.47
1:q:382:LEU:HD12	1:q:396:VAL:HG22	1.94	0.47
1:t:295:THR:HG23	1:t:380:GLN:HB3	1.95	0.47
1:v:488:ARG:O	1:y:109:GLN:NE2	2.47	0.47
1:w:229:LEU:HD22	1:w:233:GLU:HB3	1.95	0.47
1:y:436:ALA:C	1:y:437:MET:HG3	2.39	0.47
1:z:383:TYR:HE2	1:1:318:VAL:HG21	1.79	0.47
1:5:357:GLN:NE2	1:5:368:ILE:HD12	2.29	0.47
1:7:295:THR:HG23	1:7:380:GLN:HB3	1.95	0.47
1:8:229:LEU:HD22	1:8:233:GLU:HB3	1.95	0.47
1:A:409:ILE:H	1:A:530:ILE:HG12	1.79	0.47
1:A:488:ARG:O	1:F:109:GLN:NE2	2.47	0.47
1:B:331:ALA:HB2	1:L:390:TYR:HE2	1.78	0.47
1:B:390:TYR:CE2	1:J:331:ALA:HB2	2.48	0.47
1:C:488:ARG:O	1:L:109:GLN:NE2	2.47	0.47
1:D:409:ILE:H	1:D:530:ILE:HG12	1.79	0.47
1:E:371:ASN:HB2	1:E:524:TRP:CE3	2.50	0.47
1:F:153:ALA:HA	1:R:134:GLN:NE2	2.29	0.47
1:H:179:GLU:OE2	1:H:411:ARG:NH1	2.38	0.47
1:H:357:GLN:NE2	1:H:368:ILE:HD12	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:390:TYR:HE2	1:W:331:ALA:HB2	1.77	0.47
1:I:371:ASN:HB2	1:I:524:TRP:CE3	2.50	0.47
1:J:390:TYR:CE2	1:L:331:ALA:HB2	2.49	0.47
1:J:409:ILE:H	1:J:530:ILE:HG12	1.79	0.47
1:M:153:ALA:HA	1:c:134:GLN:NE2	2.30	0.47
1:P:378:ARG:HD2	1:P:378:ARG:HA	1.73	0.47
1:S:109:GLN:NE2	1:T:488:ARG:O	2.47	0.47
1:S:488:ARG:O	1:T:109:GLN:NE2	2.47	0.47
1:U:109:GLN:NE2	1:V:488:ARG:O	2.48	0.47
1:U:371:ASN:HB2	1:U:524:TRP:CE3	2.50	0.47
1:U:378:ARG:HD2	1:U:378:ARG:HA	1.73	0.47
1:c:409:ILE:H	1:c:530:ILE:HG12	1.79	0.47
1:e:134:GLN:NE2	1:h:153:ALA:HA	2.30	0.47
1:f:270:TYR:O	1:h:350:GLU:HG2	2.14	0.47
1:g:229:LEU:HD22	1:g:233:GLU:HB3	1.95	0.47
1:i:229:LEU:HD22	1:i:233:GLU:HB3	1.95	0.47
1:i:270:TYR:O	1:j:350:GLU:HG2	2.13	0.47
1:m:109:GLN:NE2	1:r:488:ARG:O	2.47	0.47
1:p:488:ARG:O	1:s:109:GLN:NE2	2.48	0.47
1:q:109:GLN:NE2	1:x:488:ARG:O	2.47	0.47
1:s:371:ASN:HB2	1:s:524:TRP:CE3	2.50	0.47
1:t:488:ARG:O	1:5:109:GLN:NE2	2.47	0.47
1:w:371:ASN:HB2	1:w:524:TRP:CE3	2.50	0.47
1:y:78:ILE:HD12	1:y:79:PRO:HD2	1.95	0.47
1:z:357:GLN:NE2	1:z:368:ILE:HD12	2.29	0.47
1:1:270:TYR:O	1:2:350:GLU:HG2	2.13	0.47
1:2:295:THR:HG23	1:2:380:GLN:HB3	1.96	0.47
1:4:371:ASN:HB2	1:4:524:TRP:CE3	2.50	0.47
1:C:109:GLN:NE2	1:L:488:ARG:O	2.47	0.47
1:C:409:ILE:H	1:C:530:ILE:HG12	1.79	0.47
1:D:153:ALA:HA	1:E:134:GLN:NE2	2.30	0.47
1:D:295:THR:HG23	1:D:380:GLN:HB3	1.95	0.47
1:D:488:ARG:O	1:M:109:GLN:NE2	2.47	0.47
1:G:488:ARG:O	1:H:109:GLN:NE2	2.47	0.47
1:H:295:THR:HG23	1:H:380:GLN:HB3	1.95	0.47
1:H:371:ASN:HB2	1:H:524:TRP:CE3	2.50	0.47
1:I:60:ARG:HG3	1:I:177:MET:HG3	1.95	0.47
1:J:60:ARG:HG3	1:J:177:MET:HG3	1.95	0.47
1:K:371:ASN:HB2	1:K:524:TRP:CE3	2.50	0.47
1:M:371:ASN:HB2	1:M:524:TRP:CE3	2.50	0.47
1:N:60:ARG:HG3	1:N:177:MET:HG3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:109:GLN:NE2	1:O:488:ARG:O	2.47	0.47
1:N:229:LEU:HD22	1:N:233:GLU:HB3	1.95	0.47
1:N:270:TYR:O	1:P:350:GLU:HG2	2.13	0.47
1:O:134:GLN:NE2	1:P:153:ALA:HA	2.30	0.47
1:O:153:ALA:HA	1:d:134:GLN:NE2	2.30	0.47
1:Q:488:ARG:O	1:R:109:GLN:NE2	2.47	0.47
1:T:409:ILE:H	1:T:530:ILE:HG12	1.79	0.47
1:Y:295:THR:HG23	1:Y:380:GLN:HB3	1.95	0.47
1:Y:371:ASN:HB2	1:Y:524:TRP:CE3	2.50	0.47
1:Z:229:LEU:HD22	1:Z:233:GLU:HB3	1.95	0.47
1:a:229:LEU:HA	1:a:233:GLU:OE1	2.12	0.47
1:b:371:ASN:HB2	1:b:524:TRP:CE3	2.50	0.47
1:d:229:LEU:HD22	1:d:233:GLU:HB3	1.95	0.47
1:d:338:ASP:HA	1:d:339:PRO:C	2.38	0.47
1:e:409:ILE:H	1:e:530:ILE:HG12	1.79	0.47
1:f:371:ASN:HB2	1:f:524:TRP:CE3	2.50	0.47
1:g:338:ASP:HA	1:g:339:PRO:C	2.38	0.47
1:g:488:ARG:O	1:z:109:GLN:NE2	2.48	0.47
1:h:109:GLN:NE2	1:k:488:ARG:O	2.47	0.47
1:h:371:ASN:HB2	1:h:524:TRP:CE3	2.50	0.47
1:i:109:GLN:NE2	1:l:488:ARG:O	2.47	0.47
1:j:153:ALA:HA	1:l:134:GLN:NE2	2.30	0.47
1:k:78:ILE:HD12	1:k:79:PRO:HD2	1.95	0.47
1:k:153:ALA:HA	1:w:134:GLN:NE2	2.30	0.47
1:k:295:THR:HG23	1:k:380:GLN:HB3	1.95	0.47
1:k:357:GLN:NE2	1:k:368:ILE:HD12	2.29	0.47
1:l:153:ALA:HA	1:n:134:GLN:NE2	2.30	0.47
1:m:488:ARG:O	1:r:109:GLN:NE2	2.47	0.47
1:q:134:GLN:NE2	1:y:153:ALA:HA	2.29	0.47
1:u:60:ARG:HG3	1:u:177:MET:HG3	1.95	0.47
1:u:371:ASN:HB2	1:u:524:TRP:CE3	2.50	0.47
1:u:488:ARG:O	1:1:109:GLN:NE2	2.47	0.47
1:w:295:THR:HG23	1:w:380:GLN:HB3	1.95	0.47
1:2:409:ILE:H	1:2:530:ILE:HG12	1.79	0.47
1:5:371:ASN:HB2	1:5:524:TRP:CE3	2.50	0.47
1:6:270:TYR:O	1:7:350:GLU:HG2	2.13	0.47
1:7:371:ASN:HB2	1:7:524:TRP:CE3	2.50	0.47
1:8:60:ARG:HG3	1:8:177:MET:HG3	1.95	0.47
1:A:436:ALA:C	1:A:437:MET:HG3	2.39	0.47
1:B:109:GLN:NE2	1:I:488:ARG:O	2.47	0.47
1:B:179:GLU:OE2	1:B:411:ARG:NH1	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:229:LEU:HD22	1:C:233:GLU:HB3	1.95	0.47
1:C:295:THR:HG23	1:C:380:GLN:HB3	1.96	0.47
1:D:78:ILE:HD12	1:D:79:PRO:HD2	1.95	0.47
1:D:357:GLN:NE2	1:D:368:ILE:HD12	2.29	0.47
1:J:383:TYR:HE2	1:L:318:VAL:HG21	1.80	0.47
1:J:488:ARG:O	1:K:109:GLN:NE2	2.48	0.47
1:M:350:GLU:HG2	1:b:270:TYR:O	2.14	0.47
1:N:371:ASN:HB2	1:N:524:TRP:CE3	2.50	0.47
1:U:409:ILE:H	1:U:530:ILE:HG12	1.79	0.47
1:X:153:ALA:HA	1:f:134:GLN:NE2	2.30	0.47
1:Y:409:ILE:H	1:Y:530:ILE:HG12	1.79	0.47
1:a:371:ASN:HB2	1:a:524:TRP:CE3	2.50	0.47
1:a:382:LEU:HD12	1:a:396:VAL:HG22	1.94	0.47
1:b:134:GLN:NE2	1:o:153:ALA:HA	2.30	0.47
1:d:136:LYS:NZ	1:d:149:ASN:OD1	2.37	0.47
1:e:357:GLN:NE2	1:e:368:ILE:HD12	2.29	0.47
1:g:295:THR:HG23	1:g:380:GLN:HB3	1.95	0.47
1:i:60:ARG:HG3	1:i:177:MET:HG3	1.95	0.47
1:i:371:ASN:HB2	1:i:524:TRP:CE3	2.50	0.47
1:k:371:ASN:HB2	1:k:524:TRP:CE3	2.50	0.47
1:m:179:GLU:OE2	1:m:411:ARG:NH1	2.38	0.47
1:m:409:ILE:H	1:m:530:ILE:HG12	1.79	0.47
1:n:229:LEU:HD22	1:n:233:GLU:HB3	1.95	0.47
1:u:109:GLN:NE2	1:l:488:ARG:O	2.47	0.47
1:v:436:ALA:C	1:v:437:MET:HG3	2.39	0.47
1:z:350:GLU:HG2	1:2:270:TYR:O	2.14	0.47
1:1:295:THR:HG23	1:1:380:GLN:HB3	1.95	0.47
1:3:229:LEU:HA	1:3:233:GLU:OE1	2.12	0.47
1:5:179:GLU:OE2	1:5:411:ARG:NH1	2.38	0.47
1:5:295:THR:HG23	1:5:380:GLN:HB3	1.95	0.47
1:7:436:ALA:C	1:7:437:MET:HG3	2.39	0.47
1:8:136:LYS:NZ	1:8:149:ASN:OD1	2.37	0.47
1:A:318:VAL:HG21	1:I:383:TYR:HE2	1.80	0.47
1:B:488:ARG:O	1:I:109:GLN:NE2	2.47	0.47
1:C:153:ALA:HA	1:D:134:GLN:NE2	2.30	0.47
1:C:338:ASP:HA	1:C:339:PRO:C	2.38	0.47
1:D:371:ASN:HB2	1:D:524:TRP:CE3	2.50	0.47
1:H:436:ALA:C	1:H:437:MET:HG3	2.39	0.47
1:L:451:ILE:HD12	1:L:465:ILE:HD13	1.97	0.47
1:T:78:ILE:HD12	1:T:79:PRO:HD2	1.95	0.47
1:T:153:ALA:HA	1:i:134:GLN:NE2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:295:THR:HG23	1:V:380:GLN:HB3	1.95	0.47
1:W:436:ALA:C	1:W:437:MET:HG3	2.39	0.47
1:Y:338:ASP:HA	1:Y:339:PRO:C	2.38	0.47
1:Y:436:ALA:C	1:Y:437:MET:HG3	2.39	0.47
1:Z:60:ARG:HG3	1:Z:177:MET:HG3	1.95	0.47
1:Z:136:LYS:NZ	1:Z:149:ASN:OD1	2.37	0.47
1:d:371:ASN:HB2	1:d:524:TRP:CE3	2.50	0.47
1:g:153:ALA:HA	1:k:134:GLN:NE2	2.30	0.47
1:g:409:ILE:H	1:g:530:ILE:HG12	1.79	0.47
1:h:436:ALA:C	1:h:437:MET:HG3	2.39	0.47
1:m:78:ILE:HD12	1:m:79:PRO:HD2	1.95	0.47
1:n:371:ASN:HB2	1:n:524:TRP:CE3	2.50	0.47
1:p:295:THR:HG23	1:p:380:GLN:HB3	1.95	0.47
1:r:136:LYS:NZ	1:r:149:ASN:OD1	2.37	0.47
1:t:78:ILE:HD12	1:t:79:PRO:HD2	1.95	0.47
1:u:78:ILE:HD12	1:u:79:PRO:HD2	1.95	0.47
1:u:383:TYR:HE2	1:v:318:VAL:HG21	1.80	0.47
1:z:153:ALA:HA	1:4:134:GLN:NE2	2.29	0.47
1:z:318:VAL:HG21	1:2:383:TYR:HE2	1.80	0.47
1:2:60:ARG:HG3	1:2:177:MET:HG3	1.95	0.47
1:2:179:GLU:OE2	1:2:411:ARG:NH1	2.38	0.47
1:3:229:LEU:HD22	1:3:233:GLU:HB3	1.95	0.47
1:3:371:ASN:HB2	1:3:524:TRP:CE3	2.50	0.47
1:5:270:TYR:O	1:6:350:GLU:HG2	2.13	0.47
1:5:409:ILE:H	1:5:530:ILE:HG12	1.79	0.47
1:5:436:ALA:C	1:5:437:MET:HG3	2.39	0.47
1:7:338:ASP:HA	1:7:339:PRO:C	2.38	0.47
1:7:409:ILE:H	1:7:530:ILE:HG12	1.79	0.47
1:E:51:ASP:OD1	1:E:481:ARG:NE	2.39	0.47
1:F:73:ARG:HD2	1:R:514:LYS:O	2.15	0.47
1:F:318:VAL:HG21	1:Q:383:TYR:HE2	1.80	0.47
1:G:78:ILE:HD12	1:G:79:PRO:HD2	1.95	0.47
1:H:270:TYR:O	1:W:350:GLU:HG2	2.13	0.47
1:H:409:ILE:H	1:H:530:ILE:HG12	1.79	0.47
1:I:78:ILE:HD12	1:I:79:PRO:HD2	1.95	0.47
1:N:134:GLN:NE2	1:m:153:ALA:HA	2.30	0.47
1:N:294:MET:CE	1:N:382:LEU:HD11	2.45	0.47
1:Q:179:GLU:OE2	1:Q:411:ARG:NH1	2.38	0.47
1:S:371:ASN:HB2	1:S:524:TRP:CE3	2.50	0.47
1:T:436:ALA:C	1:T:437:MET:HG3	2.39	0.47
1:T:514:LYS:O	1:U:73:ARG:HD2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:371:ASN:HB2	1:W:524:TRP:CE3	2.50	0.47
1:Z:451:ILE:HD12	1:Z:465:ILE:HD13	1.97	0.47
1:c:357:GLN:NE2	1:c:368:ILE:HD12	2.29	0.47
1:e:109:GLN:NE2	1:f:488:ARG:O	2.47	0.47
1:f:73:ARG:HD2	1:z:514:LYS:O	2.15	0.47
1:i:294:MET:CE	1:i:382:LEU:HD11	2.45	0.47
1:k:136:LYS:NZ	1:k:149:ASN:OD1	2.37	0.47
1:m:436:ALA:C	1:m:437:MET:HG3	2.39	0.47
1:m:514:LYS:O	1:s:73:ARG:HD2	2.15	0.47
1:p:371:ASN:HB2	1:p:524:TRP:CE3	2.50	0.47
1:q:514:LYS:O	1:y:73:ARG:HD2	2.15	0.47
1:s:378:ARG:HD2	1:s:378:ARG:HA	1.73	0.47
1:s:409:ILE:H	1:s:530:ILE:HG12	1.79	0.47
1:t:436:ALA:C	1:t:437:MET:HG3	2.39	0.47
1:x:179:GLU:OE2	1:x:411:ARG:NH1	2.38	0.47
1:x:383:TYR:HE2	1:y:318:VAL:HG21	1.80	0.47
1:z:270:TYR:O	1:l:350:GLU:HG2	2.15	0.47
1:z:451:ILE:HD12	1:z:465:ILE:HD13	1.97	0.47
1:6:371:ASN:HB2	1:6:524:TRP:CE3	2.50	0.47
1:A:294:MET:CE	1:A:382:LEU:HD11	2.45	0.47
1:A:371:ASN:HB2	1:A:524:TRP:CE3	2.50	0.47
1:A:451:ILE:HD12	1:A:465:ILE:HD13	1.97	0.47
1:B:295:THR:HG23	1:B:380:GLN:HB3	1.96	0.47
1:C:270:TYR:O	1:b:350:GLU:HG2	2.14	0.47
1:C:350:GLU:HG2	1:M:270:TYR:O	2.14	0.47
1:E:318:VAL:HG21	1:F:383:TYR:HE2	1.80	0.47
1:F:357:GLN:NE2	1:F:368:ILE:HD12	2.29	0.47
1:F:514:LYS:O	1:G:73:ARG:HD2	2.15	0.47
1:G:134:GLN:NE2	1:W:153:ALA:HA	2.30	0.47
1:G:436:ALA:C	1:G:437:MET:HG3	2.39	0.47
1:H:153:ALA:HA	1:Z:134:GLN:NE2	2.30	0.47
1:I:294:MET:CE	1:I:382:LEU:HD11	2.45	0.47
1:I:514:LYS:O	1:J:73:ARG:HD2	2.15	0.47
1:J:371:ASN:HB2	1:J:524:TRP:CE3	2.50	0.47
1:K:153:ALA:HA	1:7:134:GLN:NE2	2.30	0.47
1:M:357:GLN:NE2	1:M:368:ILE:HD12	2.29	0.47
1:M:436:ALA:C	1:M:437:MET:HG3	2.39	0.47
1:O:78:ILE:HD12	1:O:79:PRO:HD2	1.95	0.47
1:Q:109:GLN:NE2	1:R:488:ARG:O	2.47	0.47
1:Q:133:LEU:HD23	1:Q:469:GLY:HA3	1.95	0.47
1:R:318:VAL:HG21	1:U:383:TYR:HE2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:331:ALA:HB2	1:U:390:TYR:CE2	2.50	0.47
1:R:371:ASN:HB2	1:R:524:TRP:CE3	2.50	0.47
1:S:78:ILE:HD12	1:S:79:PRO:HD2	1.95	0.47
1:S:134:GLN:NE2	1:d:153:ALA:HA	2.29	0.47
1:S:409:ILE:H	1:S:530:ILE:HG12	1.79	0.47
1:T:371:ASN:HB2	1:T:524:TRP:CE3	2.50	0.47
1:U:133:LEU:HD23	1:U:469:GLY:HA3	1.95	0.47
1:U:294:MET:CE	1:U:382:LEU:HD11	2.45	0.47
1:U:356:TYR:CE1	1:U:367:ASN:HB3	2.50	0.47
1:V:73:ARG:HD2	1:W:514:LYS:O	2.15	0.47
1:V:234:SER:O	1:W:29:GLY:N	2.33	0.47
1:V:318:VAL:HG21	1:X:383:TYR:HE2	1.80	0.47
1:V:371:ASN:HB2	1:V:524:TRP:CE3	2.50	0.47
1:W:136:LYS:NZ	1:W:149:ASN:OD1	2.37	0.47
1:Y:134:GLN:NE2	1:4:153:ALA:HA	2.30	0.47
1:Y:136:LYS:NZ	1:Y:149:ASN:OD1	2.37	0.47
1:Z:356:TYR:CE1	1:Z:367:ASN:HB3	2.50	0.47
1:a:109:GLN:NE2	1:3:488:ARG:O	2.47	0.47
1:a:294:MET:CE	1:a:382:LEU:HD11	2.45	0.47
1:a:488:ARG:O	1:3:109:GLN:NE2	2.47	0.47
1:b:294:MET:CE	1:b:382:LEU:HD11	2.45	0.47
1:b:488:ARG:O	1:c:109:GLN:NE2	2.47	0.47
1:d:294:MET:CE	1:d:382:LEU:HD11	2.45	0.47
1:f:294:MET:CE	1:f:382:LEU:HD11	2.45	0.47
1:f:350:GLU:HG2	1:g:270:TYR:O	2.14	0.47
1:l:78:ILE:HD12	1:l:79:PRO:HD2	1.95	0.47
1:l:133:LEU:HD23	1:l:469:GLY:HA3	1.95	0.47
1:l:294:MET:CE	1:l:382:LEU:HD11	2.45	0.47
1:n:136:LYS:NZ	1:n:149:ASN:OD1	2.37	0.47
1:n:153:ALA:HA	1:r:134:GLN:NE2	2.29	0.47
1:n:294:MET:CE	1:n:382:LEU:HD11	2.45	0.47
1:o:383:TYR:HE2	1:p:318:VAL:HG21	1.80	0.47
1:p:73:ARG:HD2	1:6:514:LYS:O	2.15	0.47
1:p:134:GLN:NE2	1:q:153:ALA:HA	2.30	0.47
1:p:153:ALA:HA	1:6:134:GLN:NE2	2.30	0.47
1:q:318:VAL:HG21	1:s:383:TYR:HE2	1.79	0.47
1:q:331:ALA:HB2	1:s:390:TYR:CE2	2.50	0.47
1:q:371:ASN:HB2	1:q:524:TRP:CE3	2.50	0.47
1:q:488:ARG:O	1:x:109:GLN:NE2	2.47	0.47
1:r:371:ASN:HB2	1:r:524:TRP:CE3	2.50	0.47
1:r:451:ILE:HD12	1:r:465:ILE:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:133:LEU:HD23	1:s:469:GLY:HA3	1.95	0.47
1:s:294:MET:CE	1:s:382:LEU:HD11	2.45	0.47
1:s:356:TYR:CE1	1:s:367:ASN:HB3	2.50	0.47
1:t:73:ARG:HD2	1:y:514:LYS:O	2.15	0.47
1:t:134:GLN:NE2	1:6:153:ALA:HA	2.30	0.47
1:u:134:GLN:NE2	1:2:153:ALA:HA	2.30	0.47
1:v:294:MET:CE	1:v:382:LEU:HD11	2.45	0.47
1:v:371:ASN:HB2	1:v:524:TRP:CE3	2.50	0.47
1:w:294:MET:CE	1:w:382:LEU:HD11	2.45	0.47
1:w:318:VAL:HG21	1:y:383:TYR:HE2	1.80	0.47
1:x:133:LEU:HD23	1:x:469:GLY:HA3	1.95	0.47
1:y:357:GLN:NE2	1:y:368:ILE:HD12	2.29	0.47
1:1:179:GLU:OE2	1:1:411:ARG:NH1	2.38	0.47
1:2:371:ASN:HB2	1:2:524:TRP:CE3	2.50	0.47
1:3:294:MET:CE	1:3:382:LEU:HD11	2.45	0.47
1:3:382:LEU:HD12	1:3:396:VAL:HG22	1.95	0.47
1:4:295:THR:HG23	1:4:380:GLN:HB3	1.95	0.47
1:5:153:ALA:HA	1:8:134:GLN:NE2	2.30	0.47
1:6:436:ALA:C	1:6:437:MET:HG3	2.39	0.47
1:7:136:LYS:NZ	1:7:149:ASN:OD1	2.37	0.47
1:8:294:MET:CE	1:8:382:LEU:HD11	2.45	0.47
1:8:356:TYR:CE1	1:8:367:ASN:HB3	2.50	0.47
1:8:451:ILE:HD12	1:8:465:ILE:HD13	1.97	0.47
1:A:73:ARG:HD2	1:B:514:LYS:O	2.15	0.47
1:D:229:LEU:HD22	1:D:233:GLU:HB3	1.95	0.47
1:E:109:GLN:NE2	1:P:488:ARG:O	2.48	0.47
1:E:294:MET:CE	1:E:382:LEU:HD11	2.45	0.47
1:G:109:GLN:NE2	1:H:488:ARG:O	2.48	0.47
1:G:514:LYS:O	1:W:73:ARG:HD2	2.15	0.47
1:H:234:SER:O	1:Z:29:GLY:N	2.32	0.47
1:I:356:TYR:CE1	1:I:367:ASN:HB3	2.50	0.47
1:J:179:GLU:OE2	1:J:411:ARG:NH1	2.38	0.47
1:K:295:THR:HG23	1:K:380:GLN:HB3	1.95	0.47
1:K:409:ILE:H	1:K:530:ILE:HG12	1.79	0.47
1:M:134:GLN:NE2	1:N:153:ALA:HA	2.30	0.47
1:N:136:LYS:NZ	1:N:149:ASN:OD1	2.37	0.47
1:O:133:LEU:HD23	1:O:469:GLY:HA3	1.95	0.47
1:O:294:MET:CE	1:O:382:LEU:HD11	2.45	0.47
1:R:153:ALA:HA	1:V:134:GLN:NE2	2.30	0.47
1:S:451:ILE:HD12	1:S:465:ILE:HD13	1.97	0.47
1:V:153:ALA:HA	1:W:134:GLN:NE2	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:356:TYR:CE1	1:Y:367:ASN:HB3	2.50	0.47
1:Z:294:MET:CE	1:Z:382:LEU:HD11	2.45	0.47
1:Z:295:THR:HG23	1:Z:380:GLN:HB3	1.96	0.47
1:b:356:TYR:CE1	1:b:367:ASN:HB3	2.50	0.47
1:f:356:TYR:CE1	1:f:367:ASN:HB3	2.50	0.47
1:f:357:GLN:NE2	1:f:368:ILE:HD12	2.29	0.47
1:g:294:MET:CE	1:g:382:LEU:HD11	2.45	0.47
1:g:371:ASN:HB2	1:g:524:TRP:CE3	2.50	0.47
1:m:371:ASN:HB2	1:m:524:TRP:CE3	2.50	0.47
1:p:234:SER:O	1:6:29:GLY:N	2.33	0.47
1:q:356:TYR:CE1	1:q:367:ASN:HB3	2.50	0.47
1:r:78:ILE:HD12	1:r:79:PRO:HD2	1.95	0.47
1:r:409:ILE:H	1:r:530:ILE:HG12	1.79	0.47
1:t:109:GLN:NE2	1:5:488:ARG:O	2.48	0.47
1:t:514:LYS:O	1:6:73:ARG:HD2	2.15	0.47
1:u:294:MET:CE	1:u:382:LEU:HD11	2.45	0.47
1:u:356:TYR:CE1	1:u:367:ASN:HB3	2.50	0.47
1:v:451:ILE:HD12	1:v:465:ILE:HD13	1.97	0.47
1:w:51:ASP:OD1	1:w:481:ARG:NE	2.39	0.47
1:w:356:TYR:CE1	1:w:367:ASN:HB3	2.50	0.47
1:w:409:ILE:H	1:w:530:ILE:HG12	1.79	0.47
1:2:229:LEU:HD11	1:2:235:THR:HG23	1.97	0.47
1:3:436:ALA:C	1:3:437:MET:HG3	2.39	0.47
1:6:356:TYR:CE1	1:6:367:ASN:HB3	2.50	0.47
1:8:295:THR:HG23	1:8:380:GLN:HB3	1.96	0.47
1:A:153:ALA:HA	1:B:134:GLN:NE2	2.29	0.47
1:C:294:MET:CE	1:C:382:LEU:HD11	2.45	0.47
1:C:371:ASN:HB2	1:C:524:TRP:CE3	2.50	0.47
1:E:356:TYR:CE1	1:E:367:ASN:HB3	2.50	0.47
1:F:356:TYR:CE1	1:F:367:ASN:HB3	2.50	0.47
1:I:134:GLN:NE2	1:J:153:ALA:HA	2.30	0.47
1:K:451:ILE:HD12	1:K:465:ILE:HD13	1.97	0.47
1:N:488:ARG:O	1:O:109:GLN:NE2	2.47	0.47
1:O:73:ARG:HD2	1:d:514:LYS:O	2.15	0.47
1:O:318:VAL:HG21	1:n:383:TYR:HE2	1.80	0.47
1:O:514:LYS:O	1:P:73:ARG:HD2	2.15	0.47
1:P:133:LEU:HD23	1:P:469:GLY:HA3	1.95	0.47
1:P:356:TYR:CE1	1:P:367:ASN:HB3	2.50	0.47
1:R:356:TYR:CE1	1:R:367:ASN:HB3	2.50	0.47
1:V:229:LEU:HD11	1:V:235:THR:HG23	1.97	0.47
1:V:229:LEU:HD22	1:V:233:GLU:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:451:ILE:HD12	1:V:465:ILE:HD13	1.97	0.47
1:W:356:TYR:CE1	1:W:367:ASN:HB3	2.50	0.47
1:a:229:LEU:HD11	1:a:235:THR:HG23	1.97	0.47
1:b:357:GLN:NE2	1:b:368:ILE:HD12	2.29	0.47
1:b:451:ILE:HD12	1:b:465:ILE:HD13	1.97	0.47
1:c:133:LEU:HD23	1:c:469:GLY:HA3	1.95	0.47
1:d:383:TYR:HE2	1:l:318:VAL:HG21	1.80	0.47
1:f:451:ILE:HD12	1:f:465:ILE:HD13	1.97	0.47
1:g:350:GLU:HG2	1:h:270:TYR:O	2.14	0.47
1:h:357:GLN:NE2	1:h:368:ILE:HD12	2.29	0.47
1:h:451:ILE:HD12	1:h:465:ILE:HD13	1.97	0.47
1:i:136:LYS:NZ	1:i:149:ASN:OD1	2.37	0.47
1:j:73:ARG:HD2	1:l:514:LYS:O	2.15	0.47
1:j:109:GLN:NE2	1:w:488:ARG:O	2.47	0.47
1:j:133:LEU:HD23	1:j:469:GLY:HA3	1.95	0.47
1:j:356:TYR:CE1	1:j:367:ASN:HB3	2.50	0.47
1:k:229:LEU:HD22	1:k:233:GLU:HB3	1.95	0.47
1:l:73:ARG:HD2	1:n:514:LYS:O	2.15	0.47
1:l:371:ASN:HB2	1:l:524:TRP:CE3	2.50	0.47
1:p:229:LEU:HD22	1:p:233:GLU:HB3	1.95	0.47
1:p:229:LEU:HD11	1:p:235:THR:HG23	1.97	0.47
1:s:179:GLU:OE2	1:s:411:ARG:NH1	2.38	0.47
1:t:179:GLU:OE2	1:t:411:ARG:NH1	2.38	0.47
1:t:331:ALA:HB2	1:v:390:TYR:CE2	2.50	0.47
1:v:73:ARG:HD2	1:l:514:LYS:O	2.15	0.47
1:y:356:TYR:CE1	1:y:367:ASN:HB3	2.50	0.47
1:2:356:TYR:CE1	1:2:367:ASN:HB3	2.50	0.47
1:3:229:LEU:HD11	1:3:235:THR:HG23	1.97	0.47
1:3:295:THR:HG23	1:3:380:GLN:HB3	1.95	0.47
1:4:409:ILE:H	1:4:530:ILE:HG12	1.79	0.47
1:6:229:LEU:HD22	1:6:233:GLU:HB3	1.95	0.47
1:7:356:TYR:CE1	1:7:367:ASN:HB3	2.50	0.47
1:8:371:ASN:HB2	1:8:524:TRP:CE3	2.50	0.47
1:A:390:TYR:CE2	1:G:331:ALA:HB2	2.50	0.47
1:B:371:ASN:HB2	1:B:524:TRP:CE3	2.50	0.47
1:D:73:ARG:HD2	1:E:514:LYS:O	2.15	0.47
1:D:294:MET:CE	1:D:382:LEU:HD11	2.45	0.47
1:E:229:LEU:HD11	1:E:235:THR:HG23	1.97	0.47
1:E:409:ILE:H	1:E:530:ILE:HG12	1.79	0.47
1:E:488:ARG:O	1:P:109:GLN:NE2	2.47	0.47
1:H:134:GLN:NE2	1:I:153:ALA:HA	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:514:LYS:O	1:I:73:ARG:HD2	2.15	0.47
1:I:338:ASP:HA	1:I:339:PRO:C	2.38	0.47
1:J:229:LEU:HD11	1:J:235:THR:HG23	1.97	0.47
1:J:356:TYR:CE1	1:J:367:ASN:HB3	2.50	0.47
1:L:356:TYR:CE1	1:L:367:ASN:HB3	2.50	0.47
1:M:294:MET:CE	1:M:382:LEU:HD11	2.45	0.47
1:M:451:ILE:HD12	1:M:465:ILE:HD13	1.97	0.47
1:O:309:GLY:O	1:n:287:TYR:OH	2.28	0.47
1:O:371:ASN:HB2	1:O:524:TRP:CE3	2.50	0.47
1:P:294:MET:CE	1:P:382:LEU:HD11	2.45	0.47
1:P:436:ALA:C	1:P:437:MET:HG3	2.39	0.47
1:Q:356:TYR:CE1	1:Q:367:ASN:HB3	2.50	0.47
1:Q:409:ILE:H	1:Q:530:ILE:HG12	1.79	0.47
1:S:294:MET:CE	1:S:382:LEU:HD11	2.45	0.47
1:T:294:MET:CE	1:T:382:LEU:HD11	2.45	0.47
1:V:436:ALA:C	1:V:437:MET:HG3	2.39	0.47
1:Z:85:LYS:CG	1:Z:332:GLY:HA3	2.45	0.47
1:Z:371:ASN:HB2	1:Z:524:TRP:CE3	2.50	0.47
1:a:85:LYS:CG	1:a:332:GLY:HA3	2.46	0.47
1:a:295:THR:HG23	1:a:380:GLN:HB3	1.95	0.47
1:a:436:ALA:C	1:a:437:MET:HG3	2.39	0.47
1:c:318:VAL:HG21	1:p:383:TYR:HE2	1.80	0.47
1:e:133:LEU:HD23	1:e:469:GLY:HA3	1.95	0.47
1:h:134:GLN:NE2	1:i:153:ALA:HA	2.30	0.47
1:h:294:MET:CE	1:h:382:LEU:HD11	2.45	0.47
1:j:488:ARG:O	1:w:109:GLN:NE2	2.47	0.47
1:k:294:MET:CE	1:k:382:LEU:HD11	2.45	0.47
1:m:294:MET:CE	1:m:382:LEU:HD11	2.45	0.47
1:o:356:TYR:CE1	1:o:367:ASN:HB3	2.50	0.47
1:o:390:TYR:CE2	1:p:331:ALA:HB2	2.50	0.47
1:p:451:ILE:HD12	1:p:465:ILE:HD13	1.97	0.47
1:q:357:GLN:NE2	1:q:368:ILE:HD12	2.29	0.47
1:r:294:MET:CE	1:r:382:LEU:HD11	2.45	0.47
1:t:318:VAL:HG21	1:v:383:TYR:HE2	1.80	0.47
1:u:73:ARG:HD2	1:5:514:LYS:O	2.15	0.47
1:v:153:ALA:HA	1:1:134:GLN:NE2	2.29	0.47
1:v:514:LYS:O	1:w:73:ARG:HD2	2.15	0.47
1:w:179:GLU:OE2	1:w:411:ARG:NH1	2.38	0.47
1:w:229:LEU:HD11	1:w:235:THR:HG23	1.97	0.47
1:x:356:TYR:CE1	1:x:367:ASN:HB3	2.50	0.47
1:x:409:ILE:H	1:x:530:ILE:HG12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:409:ILE:H	1:y:530:ILE:HG12	1.79	0.47
1:z:356:TYR:CE1	1:z:367:ASN:HB3	2.50	0.47
1:2:134:GLN:NE2	1:3:153:ALA:HA	2.29	0.47
1:3:85:LYS:CG	1:3:332:GLY:HA3	2.45	0.47
1:3:134:GLN:NE2	1:8:153:ALA:HA	2.30	0.47
1:4:451:ILE:HD12	1:4:465:ILE:HD13	1.97	0.47
1:8:85:LYS:CG	1:8:332:GLY:HA3	2.45	0.47
1:8:409:ILE:H	1:8:530:ILE:HG12	1.79	0.47
1:A:514:LYS:O	1:E:73:ARG:HD2	2.15	0.46
1:B:387:GLN:HA	1:J:305:VAL:HG22	1.95	0.46
1:B:451:ILE:HD12	1:B:465:ILE:HD13	1.97	0.46
1:C:85:LYS:CG	1:C:332:GLY:HA3	2.46	0.46
1:E:179:GLU:OE2	1:E:411:ARG:NH1	2.38	0.46
1:F:85:LYS:CG	1:F:332:GLY:HA3	2.46	0.46
1:F:409:ILE:H	1:F:530:ILE:HG12	1.79	0.46
1:K:85:LYS:CG	1:K:332:GLY:HA3	2.45	0.46
1:L:134:GLN:NE2	1:b:153:ALA:HA	2.29	0.46
1:L:514:LYS:O	1:b:73:ARG:HD2	2.16	0.46
1:O:85:LYS:CG	1:O:332:GLY:HA3	2.45	0.46
1:P:179:GLU:OE2	1:P:411:ARG:NH1	2.38	0.46
1:Q:85:LYS:CG	1:Q:332:GLY:HA3	2.46	0.46
1:R:294:MET:CE	1:R:382:LEU:HD11	2.45	0.46
1:R:357:GLN:NE2	1:R:368:ILE:HD12	2.29	0.46
1:S:357:GLN:NE2	1:S:368:ILE:HD12	2.29	0.46
1:V:331:ALA:HB2	1:X:390:TYR:CE2	2.50	0.46
1:V:383:TYR:HE2	1:e:318:VAL:HG21	1.80	0.46
1:W:229:LEU:HD22	1:W:233:GLU:HB3	1.95	0.46
1:X:134:GLN:NE2	1:Y:153:ALA:HA	2.30	0.46
1:X:356:TYR:CE1	1:X:367:ASN:HB3	2.50	0.46
1:Y:229:LEU:HD11	1:Y:235:THR:HG23	1.97	0.46
1:Z:153:ALA:HA	1:a:134:GLN:NE2	2.30	0.46
1:g:85:LYS:CG	1:g:332:GLY:HA3	2.46	0.46
1:h:514:LYS:O	1:i:73:ARG:HD2	2.15	0.46
1:i:488:ARG:O	1:l:109:GLN:NE2	2.47	0.46
1:j:294:MET:CE	1:j:382:LEU:HD11	2.45	0.46
1:k:73:ARG:HD2	1:w:514:LYS:O	2.15	0.46
1:l:85:LYS:CG	1:l:332:GLY:HA3	2.45	0.46
1:n:229:LEU:HD11	1:n:235:THR:HG23	1.97	0.46
1:r:229:LEU:HD11	1:r:235:THR:HG23	1.97	0.46
1:r:383:TYR:HE2	1:s:318:VAL:HG21	1.80	0.46
1:u:153:ALA:HA	1:5:134:GLN:NE2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:338:ASP:HA	1:u:339:PRO:C	2.38	0.46
1:v:229:LEU:HD11	1:v:235:THR:HG23	1.97	0.46
1:x:85:LYS:CG	1:x:332:GLY:HA3	2.46	0.46
1:y:85:LYS:CG	1:y:332:GLY:HA3	2.46	0.46
1:z:371:ASN:HB2	1:z:524:TRP:CE3	2.50	0.46
1:1:451:ILE:HD12	1:1:465:ILE:HD13	1.97	0.46
1:4:85:LYS:CG	1:4:332:GLY:HA3	2.45	0.46
1:6:136:LYS:NZ	1:6:149:ASN:OD1	2.37	0.46
1:7:229:LEU:HD11	1:7:235:THR:HG23	1.97	0.46
1:7:451:ILE:HD12	1:7:465:ILE:HD13	1.97	0.46
1:A:229:LEU:HD11	1:A:235:THR:HG23	1.97	0.46
1:A:383:TYR:HE2	1:G:318:VAL:HG21	1.80	0.46
1:F:371:ASN:HB2	1:F:524:TRP:CE3	2.50	0.46
1:K:134:GLN:NE2	1:L:153:ALA:HA	2.30	0.46
1:K:406:ARG:HB2	1:K:531:LYS:HZ1	1.80	0.46
1:M:514:LYS:O	1:N:73:ARG:HD2	2.15	0.46
1:Q:371:ASN:HB2	1:Q:524:TRP:CE3	2.50	0.46
1:Q:451:ILE:HD12	1:Q:465:ILE:HD13	1.97	0.46
1:Q:514:LYS:O	1:S:73:ARG:HD2	2.16	0.46
1:T:318:VAL:HG21	1:l:383:TYR:HE2	1.80	0.46
1:T:383:TYR:HE2	1:d:318:VAL:HG21	1.80	0.46
1:U:451:ILE:HD12	1:U:465:ILE:HD13	1.97	0.46
1:V:356:TYR:CE1	1:V:367:ASN:HB3	2.50	0.46
1:X:318:VAL:HG21	1:e:383:TYR:HE2	1.80	0.46
1:X:451:ILE:HD12	1:X:465:ILE:HD13	1.97	0.46
1:X:514:LYS:O	1:Y:73:ARG:HD2	2.15	0.46
1:Y:451:ILE:HD12	1:Y:465:ILE:HD13	1.97	0.46
1:Z:51:ASP:OD1	1:Z:481:ARG:NE	2.39	0.46
1:Z:409:ILE:H	1:Z:530:ILE:HG12	1.79	0.46
1:c:383:TYR:HE2	1:o:318:VAL:HG21	1.80	0.46
1:c:436:ALA:C	1:c:437:MET:HG3	2.39	0.46
1:d:229:LEU:HD11	1:d:235:THR:HG23	1.97	0.46
1:e:436:ALA:C	1:e:437:MET:HG3	2.39	0.46
1:f:295:THR:HG23	1:f:380:GLN:HB3	1.95	0.46
1:j:436:ALA:C	1:j:437:MET:HG3	2.39	0.46
1:o:451:ILE:HD12	1:o:465:ILE:HD13	1.97	0.46
1:o:514:LYS:O	1:7:73:ARG:HD2	2.15	0.46
1:q:294:MET:CE	1:q:382:LEU:HD11	2.45	0.46
1:r:73:ARG:HD2	1:x:514:LYS:O	2.16	0.46
1:r:357:GLN:NE2	1:r:368:ILE:HD12	2.29	0.46
1:s:451:ILE:HD12	1:s:465:ILE:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:294:MET:CE	1:t:382:LEU:HD11	2.45	0.46
1:t:371:ASN:HB2	1:t:524:TRP:CE3	2.50	0.46
1:x:371:ASN:HB2	1:x:524:TRP:CE3	2.50	0.46
1:y:371:ASN:HB2	1:y:524:TRP:CE3	2.50	0.46
1:z:73:ARG:HD2	1:4:514:LYS:O	2.15	0.46
1:z:331:ALA:HB2	1:2:390:TYR:CE2	2.50	0.46
1:z:390:TYR:CE2	1:1:331:ALA:HB2	2.50	0.46
1:1:371:ASN:HB2	1:1:524:TRP:CE3	2.50	0.46
1:2:514:LYS:O	1:3:73:ARG:HD2	2.15	0.46
1:5:294:MET:CE	1:5:382:LEU:HD11	2.45	0.46
1:B:357:GLN:NE2	1:B:368:ILE:HD12	2.29	0.46
1:E:383:TYR:HE2	1:Q:318:VAL:HG21	1.80	0.46
1:F:134:GLN:NE2	1:G:153:ALA:HA	2.30	0.46
1:G:179:GLU:OE2	1:G:411:ARG:NH1	2.38	0.46
1:H:229:LEU:HD11	1:H:235:THR:HG23	1.97	0.46
1:J:85:LYS:CG	1:J:332:GLY:HA3	2.45	0.46
1:L:229:LEU:HD11	1:L:235:THR:HG23	1.97	0.46
1:L:371:ASN:HB2	1:L:524:TRP:CE3	2.50	0.46
1:O:383:TYR:HE2	1:m:318:VAL:HG21	1.80	0.46
1:P:134:GLN:NE2	1:Q:153:ALA:HA	2.30	0.46
1:R:436:ALA:C	1:R:437:MET:HG3	2.39	0.46
1:S:51:ASP:OD1	1:S:481:ARG:NE	2.38	0.46
1:S:229:LEU:HD11	1:S:235:THR:HG23	1.97	0.46
1:S:383:TYR:HE2	1:U:318:VAL:HG21	1.80	0.46
1:T:85:LYS:CG	1:T:332:GLY:HA3	2.45	0.46
1:W:51:ASP:OD1	1:W:481:ARG:NE	2.38	0.46
1:b:85:LYS:CG	1:b:332:GLY:HA3	2.46	0.46
1:d:85:LYS:CG	1:d:332:GLY:HA3	2.45	0.46
1:e:85:LYS:CG	1:e:332:GLY:HA3	2.46	0.46
1:e:514:LYS:O	1:h:73:ARG:HD2	2.15	0.46
1:f:85:LYS:CG	1:f:332:GLY:HA3	2.46	0.46
1:i:51:ASP:OD1	1:i:481:ARG:NE	2.38	0.46
1:i:318:VAL:HG21	1:k:383:TYR:HE2	1.80	0.46
1:m:383:TYR:HE2	1:n:318:VAL:HG21	1.80	0.46
1:n:409:ILE:H	1:n:530:ILE:HG12	1.79	0.46
1:o:134:GLN:NE2	1:7:153:ALA:HA	2.30	0.46
1:p:356:TYR:CE1	1:p:367:ASN:HB3	2.50	0.46
1:q:85:LYS:CG	1:q:332:GLY:HA3	2.45	0.46
1:t:153:ALA:HA	1:y:134:GLN:NE2	2.30	0.46
1:t:409:ILE:H	1:t:530:ILE:HG12	1.79	0.46
1:w:383:TYR:HE2	1:x:318:VAL:HG21	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:451:ILE:HD12	1:x:465:ILE:HD13	1.97	0.46
1:1:357:GLN:NE2	1:1:368:ILE:HD12	2.29	0.46
1:5:229:LEU:HD11	1:5:235:THR:HG23	1.97	0.46
1:8:357:GLN:NE2	1:8:368:ILE:HD12	2.29	0.46
1:D:383:TYR:HE2	1:N:318:VAL:HG21	1.80	0.46
1:G:294:MET:CE	1:G:382:LEU:HD11	2.45	0.46
1:G:371:ASN:HB2	1:G:524:TRP:CE3	2.50	0.46
1:H:294:MET:CE	1:H:382:LEU:HD11	2.45	0.46
1:K:356:TYR:CE1	1:K:367:ASN:HB3	2.50	0.46
1:M:73:ARG:HD2	1:c:514:LYS:O	2.15	0.46
1:N:51:ASP:OD1	1:N:481:ARG:NE	2.38	0.46
1:R:85:LYS:CG	1:R:332:GLY:HA3	2.45	0.46
1:S:85:LYS:CG	1:S:332:GLY:HA3	2.46	0.46
1:X:85:LYS:CG	1:X:332:GLY:HA3	2.46	0.46
1:X:357:GLN:NE2	1:X:368:ILE:HD12	2.29	0.46
1:Z:127:HIS:HD2	1:Z:238:THR:HG22	1.81	0.46
1:b:295:THR:HG23	1:b:380:GLN:HB3	1.95	0.46
1:c:85:LYS:CG	1:c:332:GLY:HA3	2.46	0.46
1:f:383:TYR:HE2	1:h:318:VAL:HG21	1.80	0.46
1:m:68:ASN:HB2	1:m:189:GLN:NE2	2.31	0.46
1:m:85:LYS:CG	1:m:332:GLY:HA3	2.45	0.46
1:n:85:LYS:CG	1:n:332:GLY:HA3	2.45	0.46
1:o:229:LEU:HD11	1:o:235:THR:HG23	1.97	0.46
1:p:294:MET:CE	1:p:382:LEU:HD11	2.45	0.46
1:q:350:GLU:HG2	1:s:270:TYR:O	2.15	0.46
1:r:85:LYS:CG	1:r:332:GLY:HA3	2.46	0.46
1:v:357:GLN:NE2	1:v:368:ILE:HD12	2.29	0.46
1:w:85:LYS:CG	1:w:332:GLY:HA3	2.46	0.46
1:1:229:LEU:HD11	1:1:235:THR:HG23	1.97	0.46
1:4:51:ASP:OD1	1:4:481:ARG:NE	2.38	0.46
1:5:234:SER:O	1:8:29:GLY:N	2.32	0.46
1:6:294:MET:CE	1:6:382:LEU:HD11	2.45	0.46
1:6:451:ILE:HD12	1:6:465:ILE:HD13	1.97	0.46
1:8:51:ASP:OD1	1:8:481:ARG:NE	2.38	0.46
1:8:127:HIS:HD2	1:8:238:THR:HG22	1.81	0.46
1:B:229:LEU:HD11	1:B:235:THR:HG23	1.97	0.46
1:B:294:MET:CE	1:B:382:LEU:HD11	2.45	0.46
1:D:390:TYR:CE2	1:N:331:ALA:HB2	2.51	0.46
1:E:85:LYS:CG	1:E:332:GLY:HA3	2.46	0.46
1:E:136:LYS:NZ	1:E:149:ASN:OD1	2.37	0.46
1:E:451:ILE:HD12	1:E:465:ILE:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:85:LYS:CG	1:G:332:GLY:HA3	2.46	0.46
1:G:412:GLU:OE1	1:G:412:GLU:N	2.49	0.46
1:J:412:GLU:OE1	1:J:412:GLU:N	2.49	0.46
1:K:294:MET:CE	1:K:382:LEU:HD11	2.45	0.46
1:K:412:GLU:N	1:K:412:GLU:OE1	2.49	0.46
1:M:85:LYS:CG	1:M:332:GLY:HA3	2.46	0.46
1:M:229:LEU:HD11	1:M:235:THR:HG23	1.97	0.46
1:M:318:VAL:HG21	1:b:383:TYR:HE2	1.80	0.46
1:N:357:GLN:NE2	1:N:368:ILE:HD12	2.29	0.46
1:N:390:TYR:CE2	1:P:331:ALA:HB2	2.51	0.46
1:O:356:TYR:CE1	1:O:367:ASN:HB3	2.50	0.46
1:P:371:ASN:HB2	1:P:524:TRP:CE3	2.50	0.46
1:Q:134:GLN:NE2	1:S:153:ALA:HA	2.30	0.46
1:R:350:GLU:HG2	1:U:270:TYR:O	2.15	0.46
1:S:127:HIS:HD2	1:S:238:THR:HG22	1.81	0.46
1:T:451:ILE:HD12	1:T:465:ILE:HD13	1.97	0.46
1:V:294:MET:CE	1:V:382:LEU:HD11	2.45	0.46
1:W:451:ILE:HD12	1:W:465:ILE:HD13	1.97	0.46
1:X:73:ARG:HD2	1:f:514:LYS:O	2.15	0.46
1:X:229:LEU:HD11	1:X:235:THR:HG23	1.97	0.46
1:Y:68:ASN:HB2	1:Y:189:GLN:NE2	2.31	0.46
1:Z:357:GLN:NE2	1:Z:368:ILE:HD12	2.29	0.46
1:a:390:TYR:CE2	1:8:331:ALA:HB2	2.51	0.46
1:c:371:ASN:HB2	1:c:524:TRP:CE3	2.50	0.46
1:d:409:ILE:H	1:d:530:ILE:HG12	1.79	0.46
1:e:371:ASN:HB2	1:e:524:TRP:CE3	2.50	0.46
1:f:390:TYR:CE2	1:h:331:ALA:HB2	2.51	0.46
1:h:229:LEU:HD11	1:h:235:THR:HG23	1.97	0.46
1:j:134:GLN:NE2	1:x:153:ALA:HA	2.30	0.46
1:j:179:GLU:OE2	1:j:411:ARG:NH1	2.38	0.46
1:k:156:HIS:N	1:k:447:LYS:O	2.43	0.46
1:m:451:ILE:HD12	1:m:465:ILE:HD13	1.97	0.46
1:o:85:LYS:CG	1:o:332:GLY:HA3	2.46	0.46
1:p:91:SER:HB2	1:p:189:GLN:NE2	2.31	0.46
1:r:51:ASP:OD1	1:r:481:ARG:NE	2.38	0.46
1:r:127:HIS:HD2	1:r:238:THR:HG22	1.81	0.46
1:t:85:LYS:CG	1:t:332:GLY:HA3	2.46	0.46
1:t:383:TYR:HE2	1:u:318:VAL:HG21	1.80	0.46
1:t:412:GLU:OE1	1:t:412:GLU:N	2.49	0.46
1:x:51:ASP:OD1	1:x:481:ARG:NE	2.38	0.46
1:z:229:LEU:HD11	1:z:235:THR:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:412:GLU:OE1	1:1:412:GLU:N	2.49	0.46
1:2:85:LYS:CG	1:2:332:GLY:HA3	2.46	0.46
1:2:412:GLU:OE1	1:2:412:GLU:N	2.49	0.46
1:4:356:TYR:CE1	1:4:367:ASN:HB3	2.50	0.46
1:4:412:GLU:OE1	1:4:412:GLU:N	2.49	0.46
1:5:73:ARG:HD2	1:8:514:LYS:O	2.15	0.46
1:7:85:LYS:CG	1:7:332:GLY:HA3	2.46	0.46
1:7:294:MET:CE	1:7:382:LEU:HD11	2.45	0.46
1:A:357:GLN:NE2	1:A:368:ILE:HD12	2.29	0.46
1:B:73:ARG:HD2	1:C:514:LYS:O	2.16	0.46
1:B:318:VAL:HG21	1:L:383:TYR:HE2	1.81	0.46
1:B:383:TYR:HE2	1:J:318:VAL:HG21	1.80	0.46
1:B:412:GLU:OE1	1:B:412:GLU:N	2.49	0.46
1:C:73:ARG:HD2	1:D:514:LYS:O	2.15	0.46
1:G:383:TYR:HE2	1:I:318:VAL:HG21	1.80	0.46
1:G:409:ILE:H	1:G:530:ILE:HG12	1.79	0.46
1:H:73:ARG:HD2	1:Z:514:LYS:O	2.15	0.46
1:I:85:LYS:CG	1:I:332:GLY:HA3	2.46	0.46
1:K:331:ALA:HB2	1:8:390:TYR:CE2	2.51	0.46
1:M:331:ALA:HB2	1:b:390:TYR:CE2	2.51	0.46
1:N:85:LYS:CG	1:N:332:GLY:HA3	2.46	0.46
1:N:356:TYR:CE1	1:N:367:ASN:HB3	2.50	0.46
1:O:331:ALA:HB2	1:n:390:TYR:CE2	2.51	0.46
1:P:409:ILE:H	1:P:530:ILE:HG12	1.79	0.46
1:Q:412:GLU:OE1	1:Q:412:GLU:N	2.49	0.46
1:R:91:SER:HB2	1:R:189:GLN:NE2	2.31	0.46
1:R:390:TYR:CE2	1:S:331:ALA:HB2	2.51	0.46
1:R:409:ILE:H	1:R:530:ILE:HG12	1.79	0.46
1:T:29:GLY:N	1:U:234:SER:O	2.33	0.46
1:T:68:ASN:HB2	1:T:189:GLN:NE2	2.31	0.46
1:U:127:HIS:HD2	1:U:238:THR:HG22	1.81	0.46
1:U:134:GLN:NE2	1:e:153:ALA:HA	2.30	0.46
1:V:91:SER:HB2	1:V:189:GLN:NE2	2.31	0.46
1:W:229:LEU:HD11	1:W:235:THR:HG23	1.98	0.46
1:W:294:MET:CE	1:W:382:LEU:HD11	2.45	0.46
1:X:294:MET:CE	1:X:382:LEU:HD11	2.45	0.46
1:Y:85:LYS:CG	1:Y:332:GLY:HA3	2.46	0.46
1:Y:294:MET:CE	1:Y:382:LEU:HD11	2.45	0.46
1:Y:514:LYS:O	1:4:73:ARG:HD2	2.15	0.46
1:Z:331:ALA:HB2	1:3:390:TYR:CE2	2.51	0.46
1:Z:390:TYR:CE2	1:4:331:ALA:HB2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:412:GLU:N	1:a:412:GLU:OE1	2.49	0.46
1:b:514:LYS:O	1:o:73:ARG:HD2	2.15	0.46
1:c:153:ALA:HA	1:s:134:GLN:NE2	2.30	0.46
1:c:412:GLU:N	1:c:412:GLU:OE1	2.49	0.46
1:d:390:TYR:CE2	1:l:331:ALA:HB2	2.51	0.46
1:e:412:GLU:OE1	1:e:412:GLU:N	2.49	0.46
1:g:73:ARG:HD2	1:k:514:LYS:O	2.15	0.46
1:g:514:LYS:O	1:l:73:ARG:HD2	2.16	0.46
1:h:85:LYS:CG	1:h:332:GLY:HA3	2.46	0.46
1:i:85:LYS:CG	1:i:332:GLY:HA3	2.46	0.46
1:i:331:ALA:HB2	1:k:390:TYR:CE2	2.51	0.46
1:i:357:GLN:NE2	1:i:368:ILE:HD12	2.29	0.46
1:i:390:TYR:CE2	1:j:331:ALA:HB2	2.51	0.46
1:j:371:ASN:HB2	1:j:524:TRP:CE3	2.50	0.46
1:l:356:TYR:CE1	1:l:367:ASN:HB3	2.50	0.46
1:n:73:ARG:HD2	1:r:514:LYS:O	2.15	0.46
1:o:357:GLN:NE2	1:o:368:ILE:HD12	2.29	0.46
1:o:412:GLU:OE1	1:o:412:GLU:N	2.49	0.46
1:q:91:SER:HB2	1:q:189:GLN:NE2	2.31	0.46
1:q:390:TYR:CE2	1:r:331:ALA:HB2	2.51	0.46
1:q:436:ALA:C	1:q:437:MET:HG3	2.39	0.46
1:s:85:LYS:CG	1:s:332:GLY:HA3	2.46	0.46
1:u:85:LYS:CG	1:u:332:GLY:HA3	2.46	0.46
1:v:91:SER:HB2	1:v:189:GLN:NE2	2.31	0.46
1:w:451:ILE:HD12	1:w:465:ILE:HD13	1.97	0.46
1:x:68:ASN:HB2	1:x:189:GLN:NE2	2.31	0.46
1:x:412:GLU:OE1	1:x:412:GLU:N	2.49	0.46
1:1:294:MET:CE	1:1:382:LEU:HD11	2.45	0.46
1:3:412:GLU:N	1:3:412:GLU:OE1	2.49	0.46
1:6:85:LYS:CG	1:6:332:GLY:HA3	2.46	0.46
1:6:229:LEU:HD11	1:6:235:THR:HG23	1.98	0.46
1:8:91:SER:HB2	1:8:189:GLN:NE2	2.31	0.46
1:A:85:LYS:CG	1:A:332:GLY:HA3	2.46	0.46
1:A:91:SER:HB2	1:A:189:GLN:NE2	2.31	0.46
1:A:412:GLU:OE1	1:A:412:GLU:N	2.49	0.46
1:B:356:TYR:CE1	1:B:367:ASN:HB3	2.50	0.46
1:B:381:ALA:HB3	1:J:318:VAL:HG22	1.98	0.46
1:C:356:TYR:CE1	1:C:367:ASN:HB3	2.50	0.46
1:D:68:ASN:HB2	1:D:189:GLN:NE2	2.31	0.46
1:D:91:SER:HB2	1:D:189:GLN:NE2	2.31	0.46
1:D:331:ALA:HB2	1:P:390:TYR:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:451:ILE:HD12	1:F:465:ILE:HD13	1.97	0.46
1:G:451:ILE:HD12	1:G:465:ILE:HD13	1.97	0.46
1:K:51:ASP:OD1	1:K:481:ARG:NE	2.38	0.46
1:K:73:ARG:HD2	1:7:514:LYS:O	2.15	0.46
1:K:229:LEU:HD11	1:K:235:THR:HG23	1.97	0.46
1:L:68:ASN:HB2	1:L:189:GLN:NE2	2.31	0.46
1:M:356:TYR:CE1	1:M:367:ASN:HB3	2.50	0.46
1:O:451:ILE:HD12	1:O:465:ILE:HD13	1.97	0.46
1:Q:51:ASP:OD1	1:Q:481:ARG:NE	2.38	0.46
1:Q:68:ASN:HB2	1:Q:189:GLN:NE2	2.31	0.46
1:S:412:GLU:N	1:S:412:GLU:OE1	2.49	0.46
1:S:514:LYS:O	1:d:73:ARG:HD2	2.15	0.46
1:T:229:LEU:HD11	1:T:235:THR:HG23	1.97	0.46
1:U:85:LYS:CG	1:U:332:GLY:HA3	2.46	0.46
1:V:68:ASN:HB2	1:V:189:GLN:NE2	2.31	0.46
1:W:85:LYS:CG	1:W:332:GLY:HA3	2.46	0.46
1:X:371:ASN:HB2	1:X:524:TRP:CE3	2.50	0.46
1:X:412:GLU:OE1	1:X:412:GLU:N	2.49	0.46
1:Z:73:ARG:HD2	1:a:514:LYS:O	2.15	0.46
1:Z:91:SER:HB2	1:Z:189:GLN:NE2	2.31	0.46
1:a:356:TYR:CE1	1:a:367:ASN:HB3	2.50	0.46
1:b:91:SER:HB2	1:b:189:GLN:NE2	2.31	0.46
1:d:68:ASN:HB2	1:d:189:GLN:NE2	2.31	0.46
1:i:91:SER:HB2	1:i:189:GLN:NE2	2.31	0.46
1:i:356:TYR:CE1	1:i:367:ASN:HB3	2.50	0.46
1:j:409:ILE:H	1:j:530:ILE:HG12	1.79	0.46
1:k:91:SER:HB2	1:k:189:GLN:NE2	2.31	0.46
1:l:156:HIS:N	1:l:447:LYS:O	2.43	0.46
1:m:29:GLY:N	1:s:234:SER:O	2.33	0.46
1:m:229:LEU:HD11	1:m:235:THR:HG23	1.97	0.46
1:n:68:ASN:HB2	1:n:189:GLN:NE2	2.31	0.46
1:n:451:ILE:HD12	1:n:465:ILE:HD13	1.97	0.46
1:o:294:MET:CE	1:o:382:LEU:HD11	2.45	0.46
1:p:68:ASN:HB2	1:p:189:GLN:NE2	2.31	0.46
1:q:156:HIS:N	1:q:447:LYS:O	2.43	0.46
1:q:409:ILE:H	1:q:530:ILE:HG12	1.79	0.46
1:r:153:ALA:HA	1:x:134:GLN:NE2	2.30	0.46
1:r:412:GLU:OE1	1:r:412:GLU:N	2.49	0.46
1:s:127:HIS:HD2	1:s:238:THR:HG22	1.81	0.46
1:t:451:ILE:HD12	1:t:465:ILE:HD13	1.97	0.46
1:v:85:LYS:CG	1:v:332:GLY:HA3	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:294:MET:CE	1:x:382:LEU:HD11	2.45	0.46
1:x:436:ALA:C	1:x:437:MET:HG3	2.39	0.46
1:z:68:ASN:HB2	1:z:189:GLN:NE2	2.31	0.46
1:z:127:HIS:HD2	1:z:238:THR:HG22	1.81	0.46
1:1:127:HIS:HD2	1:1:238:THR:HG22	1.81	0.46
1:1:180:LEU:HD21	1:1:518:TYR:CD1	2.51	0.46
1:4:294:MET:CE	1:4:382:LEU:HD11	2.45	0.46
1:5:356:TYR:CE1	1:5:367:ASN:HB3	2.50	0.46
1:6:51:ASP:OD1	1:6:481:ARG:NE	2.38	0.46
1:6:127:HIS:HD2	1:6:238:THR:HG22	1.81	0.46
1:7:68:ASN:HB2	1:7:189:GLN:NE2	2.31	0.46
1:8:229:LEU:HD11	1:8:235:THR:HG23	1.97	0.46
1:B:127:HIS:HD2	1:B:238:THR:HG22	1.81	0.46
1:C:91:SER:HB2	1:C:189:GLN:NE2	2.31	0.46
1:E:390:TYR:CE2	1:Q:331:ALA:HB2	2.51	0.46
1:H:356:TYR:CE1	1:H:367:ASN:HB3	2.50	0.46
1:K:318:VAL:HG21	1:8:383:TYR:HE2	1.80	0.46
1:L:127:HIS:HD2	1:L:238:THR:HG22	1.81	0.46
1:N:91:SER:HB2	1:N:189:GLN:NE2	2.31	0.46
1:N:156:HIS:N	1:N:447:LYS:O	2.43	0.46
1:P:68:ASN:HB2	1:P:189:GLN:NE2	2.31	0.46
1:Q:436:ALA:C	1:Q:437:MET:HG3	2.39	0.46
1:R:180:LEU:HD21	1:R:518:TYR:CD1	2.51	0.46
1:S:356:TYR:CE1	1:S:367:ASN:HB3	2.50	0.46
1:V:179:GLU:OE2	1:V:411:ARG:NH1	2.38	0.46
1:V:390:TYR:CE2	1:e:331:ALA:HB2	2.51	0.46
1:V:412:GLU:N	1:V:412:GLU:OE1	2.49	0.46
1:W:127:HIS:HD2	1:W:238:THR:HG22	1.81	0.46
1:Z:229:LEU:HD11	1:Z:235:THR:HG23	1.97	0.46
1:c:127:HIS:HD2	1:c:238:THR:HG22	1.81	0.46
1:c:331:ALA:HB2	1:p:390:TYR:CE2	2.51	0.46
1:d:180:LEU:HD21	1:d:518:TYR:CD1	2.51	0.46
1:d:356:TYR:CE1	1:d:367:ASN:HB3	2.50	0.46
1:d:412:GLU:OE1	1:d:412:GLU:N	2.49	0.46
1:d:451:ILE:HD12	1:d:465:ILE:HD13	1.97	0.46
1:f:91:SER:HB2	1:f:189:GLN:NE2	2.31	0.46
1:g:91:SER:HB2	1:g:189:GLN:NE2	2.31	0.46
1:h:356:TYR:CE1	1:h:367:ASN:HB3	2.50	0.46
1:j:68:ASN:HB2	1:j:189:GLN:NE2	2.31	0.46
1:j:229:LEU:HD11	1:j:235:THR:HG23	1.97	0.46
1:j:390:TYR:CE2	1:k:331:ALA:HB2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:68:ASN:HB2	1:k:189:GLN:NE2	2.31	0.46
1:l:91:SER:HB2	1:l:189:GLN:NE2	2.31	0.46
1:m:356:TYR:CE1	1:m:367:ASN:HB3	2.50	0.46
1:m:390:TYR:CE2	1:n:331:ALA:HB2	2.51	0.46
1:n:91:SER:HB2	1:n:189:GLN:NE2	2.31	0.46
1:n:180:LEU:HD21	1:n:518:TYR:CD1	2.51	0.46
1:o:371:ASN:HB2	1:o:524:TRP:CE3	2.50	0.46
1:p:179:GLU:OE2	1:p:411:ARG:NH1	2.38	0.46
1:q:68:ASN:HB2	1:q:189:GLN:NE2	2.31	0.46
1:v:412:GLU:N	1:v:412:GLU:OE1	2.49	0.46
1:y:91:SER:HB2	1:y:189:GLN:NE2	2.31	0.46
1:y:127:HIS:HD2	1:y:238:THR:HG22	1.81	0.46
1:3:356:TYR:CE1	1:3:367:ASN:HB3	2.50	0.46
1:4:229:LEU:HD11	1:4:235:THR:HG23	1.97	0.46
1:A:180:LEU:HD21	1:A:518:TYR:CD1	2.51	0.46
1:A:331:ALA:HB2	1:I:390:TYR:CE2	2.51	0.46
1:B:180:LEU:HD21	1:B:518:TYR:CD1	2.51	0.46
1:D:356:TYR:CE1	1:D:367:ASN:HB3	2.50	0.46
1:E:68:ASN:HB2	1:E:189:GLN:NE2	2.31	0.46
1:F:91:SER:HB2	1:F:189:GLN:NE2	2.31	0.46
1:F:127:HIS:HD2	1:F:238:THR:HG22	1.81	0.46
1:I:68:ASN:HB2	1:I:189:GLN:NE2	2.31	0.46
1:I:451:ILE:HD12	1:I:465:ILE:HD13	1.97	0.46
1:M:68:ASN:HB2	1:M:189:GLN:NE2	2.31	0.46
1:O:91:SER:HB2	1:O:189:GLN:NE2	2.31	0.46
1:O:229:LEU:HD11	1:O:235:THR:HG23	1.97	0.46
1:O:390:TYR:CE2	1:m:331:ALA:HB2	2.51	0.46
1:P:127:HIS:HD2	1:P:238:THR:HG22	1.81	0.46
1:Q:180:LEU:HD21	1:Q:518:TYR:CD1	2.51	0.46
1:Q:294:MET:CE	1:Q:382:LEU:HD11	2.45	0.46
1:R:68:ASN:HB2	1:R:189:GLN:NE2	2.31	0.46
1:S:68:ASN:HB2	1:S:189:GLN:NE2	2.31	0.46
1:S:180:LEU:HD21	1:S:518:TYR:CD1	2.51	0.46
1:T:356:TYR:CE1	1:T:367:ASN:HB3	2.50	0.46
1:T:390:TYR:CE2	1:d:331:ALA:HB2	2.51	0.46
1:T:412:GLU:OE1	1:T:412:GLU:N	2.49	0.46
1:U:136:LYS:NZ	1:U:149:ASN:OD1	2.37	0.46
1:U:514:LYS:O	1:e:73:ARG:HD2	2.15	0.46
1:V:180:LEU:HD21	1:V:518:TYR:CD1	2.51	0.46
1:W:91:SER:HB2	1:W:189:GLN:NE2	2.31	0.46
1:b:136:LYS:NZ	1:b:149:ASN:OD1	2.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:73:ARG:HD2	1:s:514:LYS:O	2.15	0.46
1:c:294:MET:CE	1:c:382:LEU:HD11	2.45	0.46
1:d:91:SER:HB2	1:d:189:GLN:NE2	2.31	0.46
1:e:127:HIS:HD2	1:e:238:THR:HG22	1.81	0.46
1:g:356:TYR:CE1	1:g:367:ASN:HB3	2.50	0.46
1:h:68:ASN:HB2	1:h:189:GLN:NE2	2.31	0.46
1:k:356:TYR:CE1	1:k:367:ASN:HB3	2.50	0.46
1:k:451:ILE:HD12	1:k:465:ILE:HD13	1.97	0.46
1:l:451:ILE:HD12	1:l:465:ILE:HD13	1.97	0.46
1:m:412:GLU:OE1	1:m:412:GLU:N	2.49	0.46
1:n:356:TYR:CE1	1:n:367:ASN:HB3	2.50	0.46
1:n:412:GLU:N	1:n:412:GLU:OE1	2.49	0.46
1:p:180:LEU:HD21	1:p:518:TYR:CD1	2.51	0.46
1:p:412:GLU:OE1	1:p:412:GLU:N	2.49	0.46
1:q:180:LEU:HD21	1:q:518:TYR:CD1	2.51	0.46
1:r:68:ASN:HB2	1:r:189:GLN:NE2	2.31	0.46
1:r:356:TYR:CE1	1:r:367:ASN:HB3	2.50	0.46
1:r:406:ARG:HB2	1:r:531:LYS:HZ1	1.80	0.46
1:s:136:LYS:NZ	1:s:149:ASN:OD1	2.37	0.46
1:u:68:ASN:HB2	1:u:189:GLN:NE2	2.31	0.46
1:u:357:GLN:NE2	1:u:368:ILE:HD12	2.29	0.46
1:u:390:TYR:CE2	1:v:331:ALA:HB2	2.51	0.46
1:u:514:LYS:O	1:2:73:ARG:HD2	2.16	0.46
1:v:180:LEU:HD21	1:v:518:TYR:CD1	2.51	0.46
1:w:68:ASN:HB2	1:w:189:GLN:NE2	2.31	0.46
1:w:136:LYS:NZ	1:w:149:ASN:OD1	2.37	0.46
1:w:390:TYR:CE2	1:x:331:ALA:HB2	2.51	0.46
1:x:180:LEU:HD21	1:x:518:TYR:CD1	2.51	0.46
1:y:68:ASN:HB2	1:y:189:GLN:NE2	2.31	0.46
1:y:451:ILE:HD12	1:y:465:ILE:HD13	1.97	0.46
1:z:51:ASP:OD1	1:z:481:ARG:NE	2.38	0.46
1:z:294:MET:CE	1:z:382:LEU:HD11	2.45	0.46
1:1:91:SER:HB2	1:1:189:GLN:NE2	2.31	0.46
1:1:356:TYR:CE1	1:1:367:ASN:HB3	2.50	0.46
1:1:383:TYR:HE2	1:2:318:VAL:HG21	1.80	0.46
1:3:514:LYS:O	1:8:73:ARG:HD2	2.15	0.46
1:4:406:ARG:HB2	1:4:531:LYS:HZ1	1.81	0.46
1:6:91:SER:HB2	1:6:189:GLN:NE2	2.31	0.46
1:6:412:GLU:OE1	1:6:412:GLU:N	2.49	0.46
1:A:51:ASP:OD1	1:A:481:ARG:NE	2.38	0.46
1:B:68:ASN:HB2	1:B:189:GLN:NE2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:91:SER:HB2	1:B:189:GLN:NE2	2.31	0.46
1:C:180:LEU:HD21	1:C:518:TYR:CD1	2.51	0.46
1:C:451:ILE:HD12	1:C:465:ILE:HD13	1.97	0.46
1:D:85:LYS:CG	1:D:332:GLY:HA3	2.46	0.46
1:D:127:HIS:HD2	1:D:238:THR:HG22	1.81	0.46
1:D:451:ILE:HD12	1:D:465:ILE:HD13	1.97	0.46
1:F:68:ASN:HB2	1:F:189:GLN:NE2	2.31	0.46
1:G:356:TYR:CE1	1:G:367:ASN:HB3	2.50	0.46
1:H:136:LYS:NZ	1:H:149:ASN:OD1	2.37	0.46
1:H:451:ILE:HD12	1:H:465:ILE:HD13	1.97	0.46
1:J:51:ASP:OD1	1:J:481:ARG:NE	2.38	0.46
1:K:68:ASN:HB2	1:K:189:GLN:NE2	2.31	0.46
1:K:180:LEU:HD21	1:K:518:TYR:CD1	2.51	0.46
1:L:85:LYS:CG	1:L:332:GLY:HA3	2.46	0.46
1:L:294:MET:CE	1:L:382:LEU:HD11	2.45	0.46
1:N:229:LEU:HD21	1:N:235:THR:HG23	1.98	0.46
1:P:229:LEU:HD11	1:P:235:THR:HG23	1.97	0.46
1:R:73:ARG:HD2	1:V:514:LYS:O	2.16	0.46
1:R:156:HIS:N	1:R:447:LYS:O	2.43	0.46
1:S:91:SER:HB2	1:S:189:GLN:NE2	2.31	0.46
1:T:331:ALA:HB2	1:l:390:TYR:CE2	2.51	0.46
1:W:412:GLU:OE1	1:W:412:GLU:N	2.49	0.46
1:X:180:LEU:HD21	1:X:518:TYR:CD1	2.51	0.46
1:Z:383:TYR:HE2	1:4:318:VAL:HG21	1.80	0.46
1:a:180:LEU:HD21	1:a:518:TYR:CD1	2.51	0.46
1:b:180:LEU:HD21	1:b:518:TYR:CD1	2.51	0.46
1:c:451:ILE:HD12	1:c:465:ILE:HD13	1.97	0.46
1:e:294:MET:CE	1:e:382:LEU:HD11	2.45	0.46
1:f:180:LEU:HD21	1:f:518:TYR:CD1	2.51	0.46
1:f:229:LEU:HD11	1:f:235:THR:HG23	1.97	0.46
1:g:127:HIS:HD2	1:g:238:THR:HG22	1.81	0.46
1:g:180:LEU:HD21	1:g:518:TYR:CD1	2.51	0.46
1:g:451:ILE:HD12	1:g:465:ILE:HD13	1.97	0.46
1:i:229:LEU:HD21	1:i:235:THR:HG23	1.98	0.46
1:k:179:GLU:OE2	1:k:411:ARG:NH1	2.38	0.46
1:k:378:ARG:HD2	1:k:378:ARG:HA	1.73	0.46
1:l:68:ASN:HB2	1:l:189:GLN:NE2	2.31	0.46
1:l:229:LEU:HD11	1:l:235:THR:HG23	1.97	0.46
1:p:85:LYS:CG	1:p:332:GLY:HA3	2.46	0.46
1:p:514:LYS:O	1:q:73:ARG:HD2	2.16	0.46
1:q:127:HIS:HD2	1:q:238:THR:HG22	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:180:LEU:HD21	1:r:518:TYR:CD1	2.51	0.46
1:t:356:TYR:CE1	1:t:367:ASN:HB3	2.50	0.46
1:u:451:ILE:HD12	1:u:465:ILE:HD13	1.97	0.46
1:z:412:GLU:OE1	1:z:412:GLU:N	2.49	0.46
1:3:180:LEU:HD21	1:3:518:TYR:CD1	2.51	0.46
1:4:68:ASN:HB2	1:4:189:GLN:NE2	2.31	0.46
1:4:91:SER:HB2	1:4:189:GLN:NE2	2.31	0.46
1:C:127:HIS:HD2	1:C:238:THR:HG22	1.81	0.45
1:G:68:ASN:HB2	1:G:189:GLN:NE2	2.31	0.45
1:H:85:LYS:CG	1:H:332:GLY:HA3	2.46	0.45
1:H:318:VAL:HG21	1:Y:383:TYR:HE2	1.80	0.45
1:I:357:GLN:NE2	1:I:368:ILE:HD12	2.29	0.45
1:I:378:ARG:HA	1:I:378:ARG:HD2	1.73	0.45
1:I:412:GLU:OE1	1:I:412:GLU:N	2.49	0.45
1:J:294:MET:CE	1:J:382:LEU:HD11	2.45	0.45
1:L:156:HIS:N	1:L:447:LYS:O	2.43	0.45
1:L:180:LEU:HD21	1:L:518:TYR:CD1	2.51	0.45
1:L:412:GLU:OE1	1:L:412:GLU:N	2.49	0.45
1:M:91:SER:HB2	1:M:189:GLN:NE2	2.31	0.45
1:M:412:GLU:OE1	1:M:412:GLU:N	2.49	0.45
1:O:68:ASN:HB2	1:O:189:GLN:NE2	2.31	0.45
1:O:156:HIS:N	1:O:447:LYS:O	2.43	0.45
1:P:91:SER:HB2	1:P:189:GLN:NE2	2.31	0.45
1:R:451:ILE:HD12	1:R:465:ILE:HD13	1.97	0.45
1:V:85:LYS:CG	1:V:332:GLY:HA3	2.46	0.45
1:W:180:LEU:HD21	1:W:518:TYR:CD1	2.51	0.45
1:Z:180:LEU:HD21	1:Z:518:TYR:CD1	2.51	0.45
1:c:229:LEU:HD11	1:c:235:THR:HG23	1.97	0.45
1:c:356:TYR:CE1	1:c:367:ASN:HB3	2.50	0.45
1:e:356:TYR:CE1	1:e:367:ASN:HB3	2.50	0.45
1:f:331:ALA:HB2	1:g:390:TYR:CE2	2.51	0.45
1:g:318:VAL:HG21	1:h:383:TYR:HE2	1.80	0.45
1:h:91:SER:HB2	1:h:189:GLN:NE2	2.31	0.45
1:h:412:GLU:OE1	1:h:412:GLU:N	2.49	0.45
1:i:156:HIS:N	1:i:447:LYS:O	2.43	0.45
1:i:383:TYR:HE2	1:j:318:VAL:HG21	1.80	0.45
1:i:451:ILE:HD12	1:i:465:ILE:HD13	1.97	0.45
1:j:127:HIS:HD2	1:j:238:THR:HG22	1.81	0.45
1:k:85:LYS:CG	1:k:332:GLY:HA3	2.46	0.45
1:k:127:HIS:HD2	1:k:238:THR:HG22	1.81	0.45
1:k:180:LEU:HD21	1:k:518:TYR:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:180:LEU:HD21	1:o:518:TYR:CD1	2.51	0.45
1:q:451:ILE:HD12	1:q:465:ILE:HD13	1.97	0.45
1:r:91:SER:HB2	1:r:189:GLN:NE2	2.31	0.45
1:w:357:GLN:NE2	1:w:368:ILE:HD12	2.29	0.45
1:x:91:SER:HB2	1:x:189:GLN:NE2	2.31	0.45
1:z:85:LYS:CG	1:z:332:GLY:HA3	2.46	0.45
1:1:68:ASN:HB2	1:1:189:GLN:NE2	2.31	0.45
1:2:294:MET:CE	1:2:382:LEU:HD11	2.45	0.45
1:4:180:LEU:HD21	1:4:518:TYR:CD1	2.51	0.45
1:5:85:LYS:CG	1:5:332:GLY:HA3	2.46	0.45
1:A:356:TYR:CE1	1:A:367:ASN:HB3	2.50	0.45
1:C:390:TYR:CE2	1:b:331:ALA:HB2	2.51	0.45
1:D:180:LEU:HD21	1:D:518:TYR:CD1	2.51	0.45
1:F:294:MET:CE	1:F:382:LEU:HD11	2.45	0.45
1:J:68:ASN:HB2	1:J:189:GLN:NE2	2.31	0.45
1:J:514:LYS:O	1:a:73:ARG:HD2	2.16	0.45
1:K:91:SER:HB2	1:K:189:GLN:NE2	2.31	0.45
1:K:179:GLU:OE2	1:K:411:ARG:NH1	2.38	0.45
1:K:514:LYS:O	1:L:73:ARG:HD2	2.16	0.45
1:L:91:SER:HB2	1:L:189:GLN:NE2	2.31	0.45
1:N:383:TYR:HE2	1:P:318:VAL:HG21	1.80	0.45
1:O:127:HIS:HD2	1:O:238:THR:HG22	1.81	0.45
1:O:229:LEU:HD21	1:O:235:THR:HG23	1.98	0.45
1:Q:91:SER:HB2	1:Q:189:GLN:NE2	2.31	0.45
1:R:127:HIS:HD2	1:R:238:THR:HG22	1.81	0.45
1:T:73:ARG:HD2	1:i:514:LYS:O	2.15	0.45
1:U:91:SER:HB2	1:U:189:GLN:NE2	2.31	0.45
1:Z:68:ASN:HB2	1:Z:189:GLN:NE2	2.31	0.45
1:b:229:LEU:HD11	1:b:235:THR:HG23	1.97	0.45
1:e:229:LEU:HD11	1:e:235:THR:HG23	1.97	0.45
1:e:451:ILE:HD12	1:e:465:ILE:HD13	1.97	0.45
1:f:153:ALA:HA	1:z:134:GLN:NE2	2.30	0.45
1:j:85:LYS:CG	1:j:332:GLY:HA3	2.46	0.45
1:j:91:SER:HB2	1:j:189:GLN:NE2	2.31	0.45
1:j:451:ILE:HD12	1:j:465:ILE:HD13	1.97	0.45
1:q:383:TYR:HE2	1:r:318:VAL:HG21	1.80	0.45
1:r:229:LEU:HD21	1:r:235:THR:HG23	1.98	0.45
1:t:91:SER:HB2	1:t:189:GLN:NE2	2.31	0.45
1:u:127:HIS:HD2	1:u:238:THR:HG22	1.81	0.45
1:u:412:GLU:OE1	1:u:412:GLU:N	2.49	0.45
1:v:356:TYR:CE1	1:v:367:ASN:HB3	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:412:GLU:OE1	1:w:412:GLU:N	2.49	0.45
1:x:156:HIS:N	1:x:447:LYS:O	2.43	0.45
1:x:229:LEU:HD11	1:x:235:THR:HG23	1.97	0.45
1:y:294:MET:CE	1:y:382:LEU:HD11	2.45	0.45
1:z:180:LEU:HD21	1:z:518:TYR:CD1	2.51	0.45
1:3:68:ASN:HB2	1:3:189:GLN:NE2	2.31	0.45
1:5:68:ASN:HB2	1:5:189:GLN:NE2	2.31	0.45
1:5:318:VAL:HG21	1:7:383:TYR:HE2	1.80	0.45
1:5:451:ILE:HD12	1:5:465:ILE:HD13	1.97	0.45
1:6:180:LEU:HD21	1:6:518:TYR:CD1	2.51	0.45
1:6:229:LEU:HD21	1:6:235:THR:HG23	1.98	0.45
1:7:357:GLN:NE2	1:7:368:ILE:HD12	2.29	0.45
1:8:68:ASN:HB2	1:8:189:GLN:NE2	2.31	0.45
1:8:180:LEU:HD21	1:8:518:TYR:CD1	2.51	0.45
1:A:136:LYS:NZ	1:A:149:ASN:OD1	2.37	0.45
1:B:270:TYR:O	1:J:350:GLU:HG2	2.16	0.45
1:C:318:VAL:HG21	1:M:383:TYR:HE2	1.80	0.45
1:E:229:LEU:HD21	1:E:235:THR:HG23	1.98	0.45
1:E:357:GLN:NE2	1:E:368:ILE:HD12	2.29	0.45
1:E:412:GLU:OE1	1:E:412:GLU:N	2.49	0.45
1:G:91:SER:HB2	1:G:189:GLN:NE2	2.31	0.45
1:G:127:HIS:HD2	1:G:238:THR:HG22	1.81	0.45
1:H:68:ASN:HB2	1:H:189:GLN:NE2	2.31	0.45
1:H:390:TYR:CE2	1:W:331:ALA:HB2	2.51	0.45
1:J:270:TYR:O	1:L:350:GLU:HG2	2.16	0.45
1:K:127:HIS:HD2	1:K:238:THR:HG22	1.81	0.45
1:M:180:LEU:HD21	1:M:518:TYR:CD1	2.51	0.45
1:N:451:ILE:HD12	1:N:465:ILE:HD13	1.97	0.45
1:O:234:SER:O	1:d:29:GLY:N	2.33	0.45
1:P:85:LYS:CG	1:P:332:GLY:HA3	2.46	0.45
1:P:451:ILE:HD12	1:P:465:ILE:HD13	1.97	0.45
1:Q:229:LEU:HD11	1:Q:235:THR:HG23	1.97	0.45
1:R:229:LEU:HD21	1:R:235:THR:HG23	1.98	0.45
1:R:383:TYR:HE2	1:S:318:VAL:HG21	1.80	0.45
1:S:229:LEU:HD21	1:S:235:THR:HG23	1.98	0.45
1:W:229:LEU:HD21	1:W:235:THR:HG23	1.98	0.45
1:Z:318:VAL:HG21	1:3:383:TYR:HE2	1.80	0.45
1:a:383:TYR:HE2	1:8:318:VAL:HG21	1.80	0.45
1:a:451:ILE:HD12	1:a:465:ILE:HD13	1.97	0.45
1:b:412:GLU:OE1	1:b:412:GLU:N	2.49	0.45
1:c:229:LEU:HD21	1:c:235:THR:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:136:LYS:NZ	1:f:149:ASN:OD1	2.37	0.45
1:f:229:LEU:HD21	1:f:235:THR:HG23	1.98	0.45
1:f:378:ARG:HA	1:f:378:ARG:HD2	1.73	0.45
1:h:127:HIS:HD2	1:h:238:THR:HG22	1.81	0.45
1:i:127:HIS:HD2	1:i:238:THR:HG22	1.81	0.45
1:l:127:HIS:HD2	1:l:238:THR:HG22	1.81	0.45
1:l:229:LEU:HD21	1:l:235:THR:HG23	1.98	0.45
1:q:229:LEU:HD21	1:q:235:THR:HG23	1.98	0.45
1:s:91:SER:HB2	1:s:189:GLN:NE2	2.31	0.45
1:t:29:GLY:N	1:6:234:SER:O	2.33	0.45
1:t:68:ASN:HB2	1:t:189:GLN:NE2	2.31	0.45
1:t:127:HIS:HD2	1:t:238:THR:HG22	1.81	0.45
1:t:180:LEU:HD21	1:t:518:TYR:CD1	2.51	0.45
1:t:390:TYR:CE2	1:u:331:ALA:HB2	2.51	0.45
1:v:134:GLN:NE2	1:w:153:ALA:HA	2.30	0.45
1:w:229:LEU:HD21	1:w:235:THR:HG23	1.98	0.45
1:z:91:SER:HB2	1:z:189:GLN:NE2	2.31	0.45
1:z:156:HIS:N	1:z:447:LYS:O	2.43	0.45
1:1:85:LYS:CG	1:1:332:GLY:HA3	2.45	0.45
1:2:51:ASP:OD1	1:2:481:ARG:NE	2.38	0.45
1:2:68:ASN:HB2	1:2:189:GLN:NE2	2.31	0.45
1:3:451:ILE:HD12	1:3:465:ILE:HD13	1.97	0.45
1:4:127:HIS:HD2	1:4:238:THR:HG22	1.81	0.45
1:5:136:LYS:NZ	1:5:149:ASN:OD1	2.37	0.45
1:5:331:ALA:HB2	1:7:390:TYR:CE2	2.51	0.45
1:A:127:HIS:HD2	1:A:238:THR:HG22	1.81	0.45
1:A:134:GLN:NE2	1:E:153:ALA:HA	2.30	0.45
1:B:85:LYS:CG	1:B:332:GLY:HA3	2.45	0.45
1:C:229:LEU:HD21	1:C:235:THR:HG23	1.98	0.45
1:D:250:ARG:HD2	1:D:532:THR:O	2.17	0.45
1:D:318:VAL:HG12	1:D:334:GLY:HA3	1.99	0.45
1:E:331:ALA:HB2	1:F:390:TYR:CE2	2.50	0.45
1:F:229:LEU:HD11	1:F:235:THR:HG23	1.97	0.45
1:F:250:ARG:HD2	1:F:532:THR:O	2.17	0.45
1:G:180:LEU:HD21	1:G:518:TYR:CD1	2.51	0.45
1:G:229:LEU:HD11	1:G:235:THR:HG23	1.97	0.45
1:G:390:TYR:CE2	1:I:331:ALA:HB2	2.51	0.45
1:H:180:LEU:HD21	1:H:518:TYR:CD1	2.51	0.45
1:H:331:ALA:HB2	1:Y:390:TYR:CE2	2.51	0.45
1:I:127:HIS:HD2	1:I:238:THR:HG22	1.81	0.45
1:I:229:LEU:HD11	1:I:235:THR:HG23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:229:LEU:HD21	1:J:235:THR:HG23	1.98	0.45
1:K:383:TYR:HE2	1:a:318:VAL:HG21	1.80	0.45
1:L:51:ASP:OD1	1:L:481:ARG:NE	2.38	0.45
1:M:127:HIS:HD2	1:M:238:THR:HG22	1.81	0.45
1:N:127:HIS:HD2	1:N:238:THR:HG22	1.81	0.45
1:N:229:LEU:HD11	1:N:235:THR:HG23	1.97	0.45
1:N:514:LYS:O	1:m:73:ARG:HD2	2.15	0.45
1:P:180:LEU:HD21	1:P:518:TYR:CD1	2.51	0.45
1:T:127:HIS:HD2	1:T:238:THR:HG22	1.81	0.45
1:U:180:LEU:HD21	1:U:518:TYR:CD1	2.51	0.45
1:Y:357:GLN:NE2	1:Y:368:ILE:HD12	2.29	0.45
1:b:229:LEU:HD21	1:b:235:THR:HG23	1.98	0.45
1:c:390:TYR:CE2	1:o:331:ALA:HB2	2.51	0.45
1:e:229:LEU:HD21	1:e:235:THR:HG23	1.98	0.45
1:f:318:VAL:HG21	1:g:383:TYR:HE2	1.80	0.45
1:f:412:GLU:N	1:f:412:GLU:OE1	2.49	0.45
1:g:229:LEU:HD21	1:g:235:THR:HG23	1.98	0.45
1:h:180:LEU:HD21	1:h:518:TYR:CD1	2.51	0.45
1:i:179:GLU:OE2	1:i:411:ARG:NH1	2.38	0.45
1:i:229:LEU:HD11	1:i:235:THR:HG23	1.97	0.45
1:j:229:LEU:HD21	1:j:235:THR:HG23	1.98	0.45
1:j:514:LYS:O	1:x:73:ARG:HD2	2.15	0.45
1:k:229:LEU:HD11	1:k:235:THR:HG23	1.98	0.45
1:k:250:ARG:HD2	1:k:532:THR:O	2.17	0.45
1:s:180:LEU:HD21	1:s:518:TYR:CD1	2.51	0.45
1:t:234:SER:O	1:y:29:GLY:N	2.33	0.45
1:u:91:SER:HB2	1:u:189:GLN:NE2	2.31	0.45
1:u:229:LEU:HD11	1:u:235:THR:HG23	1.97	0.45
1:v:51:ASP:OD1	1:v:481:ARG:NE	2.38	0.45
1:w:180:LEU:HD21	1:w:518:TYR:CD1	2.51	0.45
1:x:357:GLN:NE2	1:x:368:ILE:HD12	2.29	0.45
1:y:229:LEU:HD11	1:y:235:THR:HG23	1.97	0.45
1:y:250:ARG:HD2	1:y:532:THR:O	2.17	0.45
1:y:412:GLU:N	1:y:412:GLU:OE1	2.49	0.45
1:2:229:LEU:HD21	1:2:235:THR:HG23	1.98	0.45
1:3:91:SER:HB2	1:3:189:GLN:NE2	2.31	0.45
1:4:229:LEU:HD21	1:4:235:THR:HG23	1.98	0.45
1:8:412:GLU:N	1:8:412:GLU:OE1	2.49	0.45
1:C:331:ALA:HB2	1:M:390:TYR:CE2	2.51	0.45
1:C:383:TYR:HE2	1:b:318:VAL:HG21	1.80	0.45
1:C:412:GLU:N	1:C:412:GLU:OE1	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:179:GLU:OE2	1:D:411:ARG:NH1	2.38	0.45
1:D:229:LEU:HD11	1:D:235:THR:HG23	1.97	0.45
1:D:229:LEU:HD21	1:D:235:THR:HG23	1.98	0.45
1:D:412:GLU:OE1	1:D:412:GLU:N	2.49	0.45
1:E:91:SER:HB2	1:E:189:GLN:NE2	2.31	0.45
1:E:127:HIS:HD2	1:E:238:THR:HG22	1.81	0.45
1:E:180:LEU:HD21	1:E:518:TYR:CD1	2.51	0.45
1:F:180:LEU:HD21	1:F:518:TYR:CD1	2.51	0.45
1:J:134:GLN:NE2	1:a:153:ALA:HA	2.31	0.45
1:K:229:LEU:HD21	1:K:235:THR:HG23	1.98	0.45
1:N:412:GLU:N	1:N:412:GLU:OE1	2.49	0.45
1:O:180:LEU:HD21	1:O:518:TYR:CD1	2.51	0.45
1:P:229:LEU:HD21	1:P:235:THR:HG23	1.98	0.45
1:R:136:LYS:NZ	1:R:149:ASN:OD1	2.37	0.45
1:X:91:SER:HB2	1:X:189:GLN:NE2	2.31	0.45
1:Y:127:HIS:HD2	1:Y:238:THR:HG22	1.81	0.45
1:Z:412:GLU:OE1	1:Z:412:GLU:N	2.49	0.45
1:a:68:ASN:HB2	1:a:189:GLN:NE2	2.31	0.45
1:a:91:SER:HB2	1:a:189:GLN:NE2	2.31	0.45
1:g:331:ALA:HB2	1:h:390:TYR:CE2	2.50	0.45
1:g:412:GLU:OE1	1:g:412:GLU:N	2.49	0.45
1:i:412:GLU:N	1:i:412:GLU:OE1	2.49	0.45
1:j:180:LEU:HD21	1:j:518:TYR:CD1	2.51	0.45
1:k:229:LEU:HD21	1:k:235:THR:HG23	1.98	0.45
1:k:318:VAL:HG12	1:k:334:GLY:HA3	1.99	0.45
1:l:180:LEU:HD21	1:l:518:TYR:CD1	2.51	0.45
1:n:127:HIS:HD2	1:n:238:THR:HG22	1.81	0.45
1:o:229:LEU:HD21	1:o:235:THR:HG23	1.99	0.45
1:s:412:GLU:OE1	1:s:412:GLU:N	2.49	0.45
1:t:229:LEU:HD11	1:t:235:THR:HG23	1.97	0.45
1:2:91:SER:HB2	1:2:189:GLN:NE2	2.31	0.45
1:2:250:ARG:HD2	1:2:532:THR:O	2.17	0.45
1:2:451:ILE:HD12	1:2:465:ILE:HD13	1.97	0.45
1:3:156:HIS:N	1:3:447:LYS:O	2.43	0.45
1:5:180:LEU:HD21	1:5:518:TYR:CD1	2.51	0.45
1:5:390:TYR:CE2	1:6:331:ALA:HB2	2.51	0.45
1:6:383:TYR:HE2	1:7:318:VAL:HG21	1.80	0.45
1:F:412:GLU:N	1:F:412:GLU:OE1	2.49	0.45
1:G:29:GLY:N	1:W:234:SER:O	2.33	0.45
1:I:91:SER:HB2	1:I:189:GLN:NE2	2.31	0.45
1:I:318:VAL:HG12	1:I:334:GLY:HA3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:91:SER:HB2	1:J:189:GLN:NE2	2.31	0.45
1:J:250:ARG:HD2	1:J:532:THR:O	2.17	0.45
1:J:451:ILE:HD12	1:J:465:ILE:HD13	1.97	0.45
1:L:250:ARG:HD2	1:L:532:THR:O	2.17	0.45
1:O:250:ARG:HD2	1:O:532:THR:O	2.17	0.45
1:P:514:LYS:O	1:Q:73:ARG:HD2	2.15	0.45
1:Q:229:LEU:HD21	1:Q:235:THR:HG23	1.98	0.45
1:Q:357:GLN:NE2	1:Q:368:ILE:HD12	2.29	0.45
1:R:234:SER:O	1:V:29:GLY:N	2.32	0.45
1:S:318:VAL:HG12	1:S:334:GLY:HA3	1.99	0.45
1:U:250:ARG:HD2	1:U:532:THR:O	2.17	0.45
1:W:250:ARG:HD2	1:W:532:THR:O	2.17	0.45
1:W:318:VAL:HG12	1:W:334:GLY:HA3	1.99	0.45
1:W:383:TYR:HE2	1:Y:318:VAL:HG21	1.80	0.45
1:X:127:HIS:HD2	1:X:238:THR:HG22	1.81	0.45
1:X:179:GLU:OE2	1:X:411:ARG:NH1	2.38	0.45
1:X:229:LEU:HD21	1:X:235:THR:HG23	1.99	0.45
1:X:331:ALA:HB2	1:e:390:TYR:CE2	2.51	0.45
1:Z:406:ARG:HB2	1:Z:531:LYS:HZ1	1.80	0.45
1:e:91:SER:HB2	1:e:189:GLN:NE2	2.31	0.45
1:f:68:ASN:HB2	1:f:189:GLN:NE2	2.31	0.45
1:g:134:GLN:NE2	1:1:153:ALA:HA	2.30	0.45
1:j:357:GLN:NE2	1:j:368:ILE:HD12	2.29	0.45
1:o:91:SER:HB2	1:o:189:GLN:NE2	2.31	0.45
1:o:127:HIS:HD2	1:o:238:THR:HG22	1.81	0.45
1:q:318:VAL:HG12	1:q:334:GLY:HA3	1.99	0.45
1:r:318:VAL:HG12	1:r:334:GLY:HA3	1.99	0.45
1:s:250:ARG:HD2	1:s:532:THR:O	2.17	0.45
1:u:318:VAL:HG12	1:u:334:GLY:HA3	1.99	0.45
1:v:127:HIS:HD2	1:v:238:THR:HG22	1.81	0.45
1:w:91:SER:HB2	1:w:189:GLN:NE2	2.31	0.45
1:w:127:HIS:HD2	1:w:238:THR:HG22	1.81	0.45
1:w:331:ALA:HB2	1:y:390:TYR:CE2	2.50	0.45
1:x:127:HIS:HD2	1:x:238:THR:HG22	1.81	0.45
1:x:229:LEU:HD21	1:x:235:THR:HG23	1.98	0.45
1:y:180:LEU:HD21	1:y:518:TYR:CD1	2.51	0.45
1:z:250:ARG:HD2	1:z:532:THR:O	2.17	0.45
1:3:318:VAL:HG21	1:4:383:TYR:HE2	1.80	0.45
1:6:250:ARG:HD2	1:6:532:THR:O	2.17	0.45
1:6:318:VAL:HG12	1:6:334:GLY:HA3	1.99	0.45
1:A:234:SER:O	1:B:29:GLY:N	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:318:VAL:HG12	1:A:334:GLY:HA3	1.99	0.45
1:B:136:LYS:NZ	1:B:149:ASN:OD1	2.37	0.45
1:B:153:ALA:HA	1:C:134:GLN:NE2	2.30	0.45
1:C:179:GLU:OE2	1:C:411:ARG:NH1	2.38	0.45
1:C:318:VAL:HG12	1:C:334:GLY:HA3	1.99	0.45
1:D:318:VAL:HG21	1:P:383:TYR:HE2	1.81	0.45
1:D:378:ARG:HA	1:D:378:ARG:HD2	1.73	0.45
1:E:318:VAL:HG12	1:E:334:GLY:HA3	1.99	0.45
1:F:29:GLY:N	1:G:234:SER:O	2.33	0.45
1:H:412:GLU:OE1	1:H:412:GLU:N	2.49	0.45
1:I:180:LEU:HD21	1:I:518:TYR:CD1	2.51	0.45
1:J:127:HIS:HD2	1:J:238:THR:HG22	1.81	0.45
1:K:390:TYR:CE2	1:a:331:ALA:HB2	2.51	0.45
1:O:412:GLU:OE1	1:O:412:GLU:N	2.49	0.45
1:P:357:GLN:NE2	1:P:368:ILE:HD12	2.29	0.45
1:Q:127:HIS:HD2	1:Q:238:THR:HG22	1.81	0.45
1:R:318:VAL:HG12	1:R:334:GLY:HA3	1.99	0.45
1:S:390:TYR:CE2	1:U:331:ALA:HB2	2.50	0.45
1:U:412:GLU:OE1	1:U:412:GLU:N	2.49	0.45
1:X:68:ASN:HB2	1:X:189:GLN:NE2	2.31	0.45
1:Y:180:LEU:HD21	1:Y:518:TYR:CD1	2.51	0.45
1:Z:229:LEU:HD21	1:Z:235:THR:HG23	1.98	0.45
1:Z:318:VAL:HG12	1:Z:334:GLY:HA3	1.99	0.45
1:a:156:HIS:N	1:a:447:LYS:O	2.43	0.45
1:a:250:ARG:HD2	1:a:532:THR:O	2.17	0.45
1:b:68:ASN:HB2	1:b:189:GLN:NE2	2.31	0.45
1:c:91:SER:HB2	1:c:189:GLN:NE2	2.31	0.45
1:c:250:ARG:HD2	1:c:532:THR:O	2.17	0.45
1:d:127:HIS:HD2	1:d:238:THR:HG22	1.81	0.45
1:e:68:ASN:HB2	1:e:189:GLN:NE2	2.31	0.45
1:j:383:TYR:HE2	1:k:318:VAL:HG21	1.81	0.45
1:k:412:GLU:OE1	1:k:412:GLU:N	2.49	0.45
1:l:250:ARG:HD2	1:l:532:THR:O	2.17	0.45
1:l:412:GLU:OE1	1:l:412:GLU:N	2.49	0.45
1:m:127:HIS:HD2	1:m:238:THR:HG22	1.81	0.45
1:m:136:LYS:NZ	1:m:149:ASN:OD1	2.37	0.45
1:o:136:LYS:NZ	1:o:149:ASN:OD1	2.37	0.45
1:v:136:LYS:NZ	1:v:149:ASN:OD1	2.37	0.45
1:v:318:VAL:HG12	1:v:334:GLY:HA3	1.99	0.45
1:v:489:PRO:HD3	1:y:108:PRO:HB2	1.99	0.45
1:w:318:VAL:HG12	1:w:334:GLY:HA3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:250:ARG:HD2	1:3:532:THR:O	2.17	0.45
1:3:331:ALA:HB2	1:4:390:TYR:CE2	2.51	0.45
1:4:179:GLU:OE2	1:4:411:ARG:NH1	2.38	0.45
1:5:412:GLU:OE1	1:5:412:GLU:N	2.49	0.45
1:7:127:HIS:HD2	1:7:238:THR:HG22	1.81	0.45
1:8:318:VAL:HG12	1:8:334:GLY:HA3	1.99	0.45
1:C:229:LEU:HD11	1:C:235:THR:HG23	1.97	0.45
1:G:229:LEU:HD21	1:G:235:THR:HG23	1.98	0.45
1:N:179:GLU:OE2	1:N:411:ARG:NH1	2.38	0.45
1:X:136:LYS:NZ	1:X:149:ASN:OD1	2.37	0.45
1:b:250:ARG:HD2	1:b:532:THR:O	2.17	0.45
1:c:68:ASN:HB2	1:c:189:GLN:NE2	2.31	0.45
1:e:250:ARG:HD2	1:e:532:THR:O	2.17	0.45
1:f:250:ARG:HD2	1:f:532:THR:O	2.17	0.45
1:g:229:LEU:HD11	1:g:235:THR:HG23	1.97	0.45
1:g:318:VAL:HG12	1:g:334:GLY:HA3	1.99	0.45
1:o:179:GLU:OE2	1:o:411:ARG:NH1	2.38	0.45
1:q:136:LYS:NZ	1:q:149:ASN:OD1	2.37	0.45
1:q:229:LEU:HD11	1:q:235:THR:HG23	1.97	0.45
1:q:412:GLU:N	1:q:412:GLU:OE1	2.49	0.45
1:r:390:TYR:CE2	1:s:331:ALA:HB2	2.50	0.45
1:t:229:LEU:HD21	1:t:235:THR:HG23	1.98	0.45
1:u:180:LEU:HD21	1:u:518:TYR:CD1	2.51	0.45
1:7:91:SER:HB2	1:7:189:GLN:NE2	2.31	0.45
1:7:180:LEU:HD21	1:7:518:TYR:CD1	2.51	0.45
1:8:229:LEU:HD21	1:8:235:THR:HG23	1.98	0.45
1:A:229:LEU:HD21	1:A:235:THR:HG23	1.98	0.45
1:A:489:PRO:HD3	1:F:108:PRO:HB2	1.99	0.45
1:B:331:ALA:HB2	1:L:390:TYR:CE2	2.51	0.45
1:B:397:TRP:HB2	1:J:397:TRP:CD2	2.52	0.45
1:J:180:LEU:HD21	1:J:518:TYR:CD1	2.51	0.45
1:J:397:TRP:HB2	1:L:397:TRP:CD2	2.52	0.45
1:N:68:ASN:HB2	1:N:189:GLN:NE2	2.31	0.45
1:P:412:GLU:OE1	1:P:412:GLU:N	2.49	0.45
1:Q:250:ARG:HD2	1:Q:532:THR:O	2.17	0.45
1:U:68:ASN:HB2	1:U:189:GLN:NE2	2.31	0.45
1:U:229:LEU:HD11	1:U:235:THR:HG23	1.97	0.45
1:d:357:GLN:NE2	1:d:368:ILE:HD12	2.29	0.45
1:i:68:ASN:HB2	1:i:189:GLN:NE2	2.31	0.45
1:l:234:SER:O	1:n:29:GLY:N	2.33	0.45
1:n:357:GLN:NE2	1:n:368:ILE:HD12	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:68:ASN:HB2	1:o:189:GLN:NE2	2.31	0.45
1:p:108:PRO:HB2	1:s:489:PRO:HD3	1.99	0.45
1:2:127:HIS:HD2	1:2:238:THR:HG22	1.81	0.45
1:5:383:TYR:HE2	1:6:318:VAL:HG21	1.81	0.45
1:B:250:ARG:HD2	1:B:532:THR:O	2.17	0.45
1:F:318:VAL:HG12	1:F:334:GLY:HA3	1.99	0.45
1:G:250:ARG:HD2	1:G:532:THR:O	2.17	0.45
1:R:229:LEU:HD11	1:R:235:THR:HG23	1.97	0.45
1:R:412:GLU:OE1	1:R:412:GLU:N	2.49	0.45
1:U:489:PRO:HD3	1:V:108:PRO:HB2	1.99	0.45
1:W:68:ASN:HB2	1:W:189:GLN:NE2	2.31	0.45
1:Y:91:SER:HB2	1:Y:189:GLN:NE2	2.31	0.45
1:d:51:ASP:OD1	1:d:481:ARG:NE	2.38	0.45
1:f:179:GLU:OE2	1:f:411:ARG:NH1	2.38	0.45
1:g:179:GLU:OE2	1:g:411:ARG:NH1	2.38	0.45
1:j:412:GLU:OE1	1:j:412:GLU:N	2.49	0.45
1:p:127:HIS:HD2	1:p:238:THR:HG22	1.81	0.45
1:s:229:LEU:HD11	1:s:235:THR:HG23	1.97	0.45
1:t:250:ARG:HD2	1:t:532:THR:O	2.17	0.45
1:v:229:LEU:HD21	1:v:235:THR:HG23	1.98	0.45
1:x:250:ARG:HD2	1:x:532:THR:O	2.17	0.45
1:y:318:VAL:HG12	1:y:334:GLY:HA3	1.99	0.45
1:2:318:VAL:HG12	1:2:334:GLY:HA3	1.99	0.45
1:B:318:VAL:HG12	1:B:334:GLY:HA3	1.99	0.44
1:C:68:ASN:HB2	1:C:189:GLN:NE2	2.31	0.44
1:F:331:ALA:HB2	1:Q:390:TYR:CE2	2.51	0.44
1:G:489:PRO:HD3	1:H:108:PRO:HB2	1.99	0.44
1:H:250:ARG:HD2	1:H:532:THR:O	2.17	0.44
1:H:383:TYR:HE2	1:W:318:VAL:HG21	1.81	0.44
1:K:250:ARG:HD2	1:K:532:THR:O	2.17	0.44
1:M:318:VAL:HG12	1:M:334:GLY:HA3	1.99	0.44
1:N:108:PRO:HB2	1:O:489:PRO:HD3	2.00	0.44
1:T:180:LEU:HD21	1:T:518:TYR:CD1	2.51	0.44
1:Y:108:PRO:HB2	1:Z:489:PRO:HD3	2.00	0.44
1:Y:250:ARG:HD2	1:Y:532:THR:O	2.17	0.44
1:c:180:LEU:HD21	1:c:518:TYR:CD1	2.51	0.44
1:e:180:LEU:HD21	1:e:518:TYR:CD1	2.51	0.44
1:g:68:ASN:HB2	1:g:189:GLN:NE2	2.31	0.44
1:h:318:VAL:HG12	1:h:334:GLY:HA3	1.99	0.44
1:m:180:LEU:HD21	1:m:518:TYR:CD1	2.51	0.44
1:p:29:GLY:N	1:q:234:SER:O	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:68:ASN:HB2	1:s:189:GLN:NE2	2.31	0.44
1:v:234:SER:O	1:1:29:GLY:N	2.33	0.44
1:x:390:TYR:CE2	1:y:331:ALA:HB2	2.51	0.44
1:1:70:HIS:CD2	1:1:450:LYS:HG3	2.53	0.44
1:1:136:LYS:NZ	1:1:149:ASN:OD1	2.37	0.44
1:1:318:VAL:HG12	1:1:334:GLY:HA3	1.99	0.44
1:3:318:VAL:HG12	1:3:334:GLY:HA3	1.99	0.44
1:4:250:ARG:HD2	1:4:532:THR:O	2.17	0.44
1:5:250:ARG:HD2	1:5:532:THR:O	2.17	0.44
1:6:68:ASN:HB2	1:6:189:GLN:NE2	2.31	0.44
1:6:390:TYR:CE2	1:7:331:ALA:HB2	2.51	0.44
1:7:108:PRO:HB2	1:8:489:PRO:HD3	2.00	0.44
1:A:68:ASN:HB2	1:A:189:GLN:NE2	2.31	0.44
1:D:399:PHE:CD1	1:D:400:PRO:HD2	2.53	0.44
1:J:108:PRO:HB2	1:K:489:PRO:HD3	2.00	0.44
1:J:318:VAL:HG12	1:J:334:GLY:HA3	1.99	0.44
1:N:489:PRO:HD3	1:O:108:PRO:HB2	2.00	0.44
1:O:318:VAL:HG12	1:O:334:GLY:HA3	1.99	0.44
1:T:91:SER:HB2	1:T:189:GLN:NE2	2.31	0.44
1:T:136:LYS:NZ	1:T:149:ASN:OD1	2.37	0.44
1:U:318:VAL:HG12	1:U:334:GLY:HA3	1.99	0.44
1:V:70:HIS:CD2	1:V:450:LYS:HG3	2.53	0.44
1:V:127:HIS:HD2	1:V:238:THR:HG22	1.81	0.44
1:V:250:ARG:HD2	1:V:532:THR:O	2.17	0.44
1:W:390:TYR:CE2	1:Y:331:ALA:HB2	2.51	0.44
1:X:250:ARG:HD2	1:X:532:THR:O	2.17	0.44
1:X:399:PHE:CD1	1:X:400:PRO:HD2	2.53	0.44
1:Y:229:LEU:HD21	1:Y:235:THR:HG23	1.98	0.44
1:Z:70:HIS:CD2	1:Z:450:LYS:HG3	2.53	0.44
1:a:318:VAL:HG12	1:a:334:GLY:HA3	1.99	0.44
1:f:127:HIS:HD2	1:f:238:THR:HG22	1.81	0.44
1:i:108:PRO:HB2	1:l:489:PRO:HD3	2.00	0.44
1:i:489:PRO:HD3	1:l:108:PRO:HB2	2.00	0.44
1:k:399:PHE:CD1	1:k:400:PRO:HD2	2.53	0.44
1:m:91:SER:HB2	1:m:189:GLN:NE2	2.31	0.44
1:m:108:PRO:HB2	1:r:489:PRO:HD3	2.00	0.44
1:o:399:PHE:CD1	1:o:400:PRO:HD2	2.53	0.44
1:p:70:HIS:CD2	1:p:450:LYS:HG3	2.53	0.44
1:s:229:LEU:HD21	1:s:235:THR:HG23	1.98	0.44
1:s:318:VAL:HG12	1:s:334:GLY:HA3	1.99	0.44
1:t:489:PRO:HD3	1:5:108:PRO:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:70:HIS:CD2	1:u:450:LYS:HG3	2.53	0.44
1:v:68:ASN:HB2	1:v:189:GLN:NE2	2.31	0.44
1:1:250:ARG:HD2	1:1:532:THR:O	2.17	0.44
1:1:390:TYR:CE2	1:2:331:ALA:HB2	2.51	0.44
1:2:180:LEU:HD21	1:2:518:TYR:CD1	2.51	0.44
1:7:229:LEU:HD21	1:7:235:THR:HG23	1.98	0.44
1:7:250:ARG:HD2	1:7:532:THR:O	2.17	0.44
1:7:412:GLU:OE1	1:7:412:GLU:N	2.49	0.44
1:8:70:HIS:CD2	1:8:450:LYS:HG3	2.53	0.44
1:B:70:HIS:CD2	1:B:450:LYS:HG3	2.53	0.44
1:D:489:PRO:HD3	1:M:108:PRO:HB2	2.00	0.44
1:I:70:HIS:CD2	1:I:450:LYS:HG3	2.53	0.44
1:I:399:PHE:CD1	1:I:400:PRO:HD2	2.53	0.44
1:K:399:PHE:CD1	1:K:400:PRO:HD2	2.53	0.44
1:O:70:HIS:CD2	1:O:450:LYS:HG3	2.53	0.44
1:O:357:GLN:NE2	1:O:368:ILE:HD12	2.29	0.44
1:P:399:PHE:CD1	1:P:400:PRO:HD2	2.53	0.44
1:S:250:ARG:HD2	1:S:532:THR:O	2.17	0.44
1:S:489:PRO:HD3	1:T:108:PRO:HB2	2.00	0.44
1:T:70:HIS:CD2	1:T:450:LYS:HG3	2.53	0.44
1:V:136:LYS:NZ	1:V:149:ASN:OD1	2.37	0.44
1:V:318:VAL:HG12	1:V:334:GLY:HA3	1.99	0.44
1:X:70:HIS:CD2	1:X:450:LYS:HG3	2.53	0.44
1:a:489:PRO:HD3	1:3:108:PRO:HB2	1.99	0.44
1:b:108:PRO:HB2	1:c:489:PRO:HD3	1.99	0.44
1:c:70:HIS:CD2	1:c:450:LYS:HG3	2.53	0.44
1:e:70:HIS:CD2	1:e:450:LYS:HG3	2.53	0.44
1:g:108:PRO:HB2	1:z:489:PRO:HD3	1.99	0.44
1:h:108:PRO:HB2	1:k:489:PRO:HD3	2.00	0.44
1:i:180:LEU:HD21	1:i:518:TYR:CD1	2.51	0.44
1:i:318:VAL:HG12	1:i:334:GLY:HA3	1.99	0.44
1:j:399:PHE:CD1	1:j:400:PRO:HD2	2.53	0.44
1:l:318:VAL:HG12	1:l:334:GLY:HA3	1.99	0.44
1:m:70:HIS:CD2	1:m:450:LYS:HG3	2.53	0.44
1:m:229:LEU:HD21	1:m:235:THR:HG23	1.98	0.44
1:o:70:HIS:CD2	1:o:450:LYS:HG3	2.53	0.44
1:o:250:ARG:HD2	1:o:532:THR:O	2.17	0.44
1:p:250:ARG:HD2	1:p:532:THR:O	2.17	0.44
1:p:318:VAL:HG12	1:p:334:GLY:HA3	1.99	0.44
1:u:399:PHE:CD1	1:u:400:PRO:HD2	2.53	0.44
1:3:127:HIS:HD2	1:3:238:THR:HG22	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:357:GLN:NE2	1:3:368:ILE:HD12	2.29	0.44
1:4:399:PHE:CD1	1:4:400:PRO:HD2	2.53	0.44
1:5:91:SER:HB2	1:5:189:GLN:NE2	2.31	0.44
1:A:70:HIS:CD2	1:A:450:LYS:HG3	2.53	0.44
1:B:108:PRO:HB2	1:I:489:PRO:HD3	2.00	0.44
1:D:51:ASP:OD1	1:D:481:ARG:NE	2.38	0.44
1:F:51:ASP:OD1	1:F:481:ARG:NE	2.38	0.44
1:G:156:HIS:N	1:G:447:LYS:O	2.43	0.44
1:H:91:SER:HB2	1:H:189:GLN:NE2	2.31	0.44
1:J:381:ALA:HB3	1:L:318:VAL:HG22	1.98	0.44
1:J:399:PHE:CD1	1:J:400:PRO:HD2	2.53	0.44
1:L:229:LEU:HD21	1:L:235:THR:HG23	1.98	0.44
1:N:180:LEU:HD21	1:N:518:TYR:CD1	2.51	0.44
1:N:318:VAL:HG12	1:N:334:GLY:HA3	1.99	0.44
1:R:70:HIS:CD2	1:R:450:LYS:HG3	2.53	0.44
1:T:229:LEU:HD21	1:T:235:THR:HG23	1.98	0.44
1:U:229:LEU:HD21	1:U:235:THR:HG23	1.98	0.44
1:W:357:GLN:NE2	1:W:368:ILE:HD12	2.29	0.44
1:Y:70:HIS:CD2	1:Y:450:LYS:HG3	2.53	0.44
1:Y:412:GLU:OE1	1:Y:412:GLU:N	2.49	0.44
1:a:127:HIS:HD2	1:a:238:THR:HG22	1.81	0.44
1:a:357:GLN:NE2	1:a:368:ILE:HD12	2.29	0.44
1:b:127:HIS:HD2	1:b:238:THR:HG22	1.81	0.44
1:b:179:GLU:OE2	1:b:411:ARG:NH1	2.38	0.44
1:e:489:PRO:HD3	1:f:108:PRO:HB2	1.99	0.44
1:h:250:ARG:HD2	1:h:532:THR:O	2.17	0.44
1:j:250:ARG:HD2	1:j:532:THR:O	2.17	0.44
1:j:489:PRO:HD3	1:w:108:PRO:HB2	2.00	0.44
1:l:70:HIS:CD2	1:l:450:LYS:HG3	2.53	0.44
1:l:357:GLN:NE2	1:l:368:ILE:HD12	2.29	0.44
1:m:318:VAL:HG12	1:m:334:GLY:HA3	1.99	0.44
1:n:229:LEU:HD21	1:n:235:THR:HG23	1.98	0.44
1:r:250:ARG:HD2	1:r:532:THR:O	2.17	0.44
1:z:229:LEU:HD21	1:z:235:THR:HG23	1.98	0.44
1:1:229:LEU:HD21	1:1:235:THR:HG23	1.98	0.44
1:2:108:PRO:HB2	1:4:489:PRO:HD3	2.00	0.44
1:2:399:PHE:CD1	1:2:400:PRO:HD2	2.53	0.44
1:7:70:HIS:CD2	1:7:450:LYS:HG3	2.53	0.44
1:8:250:ARG:HD2	1:8:532:THR:O	2.17	0.44
1:B:229:LEU:HD21	1:B:235:THR:HG23	1.98	0.44
1:E:70:HIS:CD2	1:E:450:LYS:HG3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:108:PRO:HB2	1:P:489:PRO:HD3	2.00	0.44
1:L:399:PHE:CD1	1:L:400:PRO:HD2	2.53	0.44
1:M:250:ARG:HD2	1:M:532:THR:O	2.17	0.44
1:N:399:PHE:CD1	1:N:400:PRO:HD2	2.53	0.44
1:R:399:PHE:CD1	1:R:400:PRO:HD2	2.53	0.44
1:T:318:VAL:HG12	1:T:334:GLY:HA3	1.99	0.44
1:U:108:PRO:HB2	1:V:489:PRO:HD3	2.00	0.44
1:Z:250:ARG:HD2	1:Z:532:THR:O	2.17	0.44
1:Z:399:PHE:CD1	1:Z:400:PRO:HD2	2.53	0.44
1:a:70:HIS:CD2	1:a:450:LYS:HG3	2.53	0.44
1:a:108:PRO:HB2	1:3:489:PRO:HD3	1.99	0.44
1:g:357:GLN:NE2	1:g:368:ILE:HD12	2.29	0.44
1:i:399:PHE:CD1	1:i:400:PRO:HD2	2.53	0.44
1:k:70:HIS:CD2	1:k:450:LYS:HG3	2.53	0.44
1:n:51:ASP:OD1	1:n:481:ARG:NE	2.38	0.44
1:n:250:ARG:HD2	1:n:532:THR:O	2.17	0.44
1:n:318:VAL:HG12	1:n:334:GLY:HA3	1.99	0.44
1:o:489:PRO:HD3	1:6:108:PRO:HB2	2.00	0.44
1:p:489:PRO:HD3	1:s:108:PRO:HB2	2.00	0.44
1:q:70:HIS:CD2	1:q:450:LYS:HG3	2.53	0.44
1:q:399:PHE:CD1	1:q:400:PRO:HD2	2.53	0.44
1:s:70:HIS:CD2	1:s:450:LYS:HG3	2.53	0.44
1:s:399:PHE:CD1	1:s:400:PRO:HD2	2.53	0.44
1:u:108:PRO:HB2	1:1:489:PRO:HD3	2.00	0.44
1:v:70:HIS:CD2	1:v:450:LYS:HG3	2.53	0.44
1:w:70:HIS:CD2	1:w:450:LYS:HG3	2.53	0.44
1:w:399:PHE:CD1	1:w:400:PRO:HD2	2.53	0.44
1:3:70:HIS:CD2	1:3:450:LYS:HG3	2.53	0.44
1:6:179:GLU:OE2	1:6:411:ARG:NH1	2.38	0.44
1:6:357:GLN:NE2	1:6:368:ILE:HD12	2.29	0.44
1:8:399:PHE:CD1	1:8:400:PRO:HD2	2.53	0.44
1:B:489:PRO:HD3	1:I:108:PRO:HB2	2.00	0.44
1:D:70:HIS:CD2	1:D:450:LYS:HG3	2.53	0.44
1:E:250:ARG:HD2	1:E:532:THR:O	2.17	0.44
1:E:399:PHE:CD1	1:E:400:PRO:HD2	2.53	0.44
1:H:229:LEU:HD21	1:H:235:THR:HG23	1.98	0.44
1:P:250:ARG:HD2	1:P:532:THR:O	2.17	0.44
1:R:250:ARG:HD2	1:R:532:THR:O	2.17	0.44
1:U:70:HIS:CD2	1:U:450:LYS:HG3	2.53	0.44
1:U:399:PHE:CD1	1:U:400:PRO:HD2	2.53	0.44
1:W:108:PRO:HB2	1:X:489:PRO:HD3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:489:PRO:HD3	1:X:108:PRO:HB2	2.00	0.44
1:Y:399:PHE:CD1	1:Y:400:PRO:HD2	2.53	0.44
1:Y:406:ARG:HB2	1:Y:531:LYS:NZ	2.33	0.44
1:Z:378:ARG:HA	1:Z:378:ARG:HD2	1.73	0.44
1:d:229:LEU:HD21	1:d:235:THR:HG23	1.98	0.44
1:d:250:ARG:HD2	1:d:532:THR:O	2.17	0.44
1:d:318:VAL:HG12	1:d:334:GLY:HA3	1.99	0.44
1:f:70:HIS:CD2	1:f:450:LYS:HG3	2.53	0.44
1:l:378:ARG:HD2	1:l:378:ARG:HA	1.73	0.44
1:l:399:PHE:CD1	1:l:400:PRO:HD2	2.53	0.44
1:o:108:PRO:HB2	1:6:489:PRO:HD3	2.00	0.44
1:p:136:LYS:NZ	1:p:149:ASN:OD1	2.37	0.44
1:u:489:PRO:HD3	1:1:108:PRO:HB2	2.00	0.44
1:z:399:PHE:CD1	1:z:400:PRO:HD2	2.53	0.44
1:5:127:HIS:HD2	1:5:238:THR:HG22	1.81	0.44
1:7:406:ARG:HB2	1:7:531:LYS:NZ	2.33	0.44
1:A:108:PRO:HB2	1:F:489:PRO:HD3	1.99	0.44
1:C:250:ARG:HD2	1:C:532:THR:O	2.17	0.44
1:H:70:HIS:CD2	1:H:450:LYS:HG3	2.53	0.44
1:H:127:HIS:HD2	1:H:238:THR:HG22	1.81	0.44
1:H:318:VAL:HG12	1:H:334:GLY:HA3	1.99	0.44
1:K:222:GLU:OE1	1:K:222:GLU:N	2.50	0.44
1:K:406:ARG:HB2	1:K:531:LYS:NZ	2.33	0.44
1:M:229:LEU:HD21	1:M:235:THR:HG23	1.98	0.44
1:O:399:PHE:CD1	1:O:400:PRO:HD2	2.53	0.44
1:V:229:LEU:HD21	1:V:235:THR:HG23	1.98	0.44
1:Y:318:VAL:HG12	1:Y:334:GLY:HA3	1.99	0.44
1:b:70:HIS:CD2	1:b:450:LYS:HG3	2.53	0.44
1:e:378:ARG:HA	1:e:378:ARG:HD2	1.73	0.44
1:p:229:LEU:HD21	1:p:235:THR:HG23	1.98	0.44
1:p:399:PHE:CD1	1:p:400:PRO:HD2	2.53	0.44
1:q:250:ARG:HD2	1:q:532:THR:O	2.17	0.44
1:r:70:HIS:CD2	1:r:450:LYS:HG3	2.53	0.44
1:v:108:PRO:HB2	1:y:489:PRO:HD3	1.99	0.44
1:w:250:ARG:HD2	1:w:532:THR:O	2.17	0.44
1:3:406:ARG:HB2	1:3:531:LYS:NZ	2.33	0.44
1:5:70:HIS:CD2	1:5:450:LYS:HG3	2.53	0.44
1:7:399:PHE:CD1	1:7:400:PRO:HD2	2.53	0.44
1:A:250:ARG:HD2	1:A:532:THR:O	2.17	0.44
1:C:357:GLN:NE2	1:C:368:ILE:HD12	2.29	0.44
1:C:399:PHE:CD1	1:C:400:PRO:HD2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:406:ARG:HB2	1:D:531:LYS:NZ	2.33	0.44
1:F:70:HIS:CD2	1:F:450:LYS:HG3	2.53	0.44
1:F:229:LEU:HD21	1:F:235:THR:HG23	1.98	0.44
1:I:229:LEU:HD21	1:I:235:THR:HG23	1.98	0.44
1:I:406:ARG:HB2	1:I:531:LYS:NZ	2.33	0.44
1:J:489:PRO:HD3	1:K:108:PRO:HB2	1.99	0.44
1:K:318:VAL:HG22	1:8:381:ALA:HB3	2.00	0.44
1:L:70:HIS:CD2	1:L:450:LYS:HG3	2.53	0.44
1:M:179:GLU:OE2	1:M:411:ARG:NH1	2.38	0.44
1:Q:70:HIS:CD2	1:Q:450:LYS:HG3	2.53	0.44
1:S:70:HIS:CD2	1:S:450:LYS:HG3	2.53	0.44
1:V:399:PHE:CD1	1:V:400:PRO:HD2	2.53	0.44
1:X:29:GLY:N	1:Y:234:SER:O	2.33	0.44
1:X:234:SER:O	1:f:29:GLY:N	2.33	0.44
1:Z:179:GLU:OE2	1:Z:411:ARG:NH1	2.38	0.44
1:Z:381:ALA:HB3	1:4:318:VAL:HG22	2.00	0.44
1:a:406:ARG:HB2	1:a:531:LYS:NZ	2.33	0.44
1:b:399:PHE:CD1	1:b:400:PRO:HD2	2.53	0.44
1:c:318:VAL:HG12	1:c:334:GLY:HA3	1.99	0.44
1:c:399:PHE:CD1	1:c:400:PRO:HD2	2.53	0.44
1:e:136:LYS:NZ	1:e:149:ASN:OD1	2.37	0.44
1:e:318:VAL:HG12	1:e:334:GLY:HA3	1.99	0.44
1:f:399:PHE:CD1	1:f:400:PRO:HD2	2.53	0.44
1:g:399:PHE:CD1	1:g:400:PRO:HD2	2.53	0.44
1:h:156:HIS:N	1:h:447:LYS:O	2.43	0.44
1:h:229:LEU:HD21	1:h:235:THR:HG23	1.99	0.44
1:k:406:ARG:HB2	1:k:531:LYS:NZ	2.33	0.44
1:m:250:ARG:HD2	1:m:532:THR:O	2.17	0.44
1:t:156:HIS:N	1:t:447:LYS:O	2.43	0.44
1:u:250:ARG:HD2	1:u:532:THR:O	2.17	0.44
1:y:51:ASP:OD1	1:y:481:ARG:NE	2.38	0.44
1:y:229:LEU:HD21	1:y:235:THR:HG23	1.98	0.44
1:1:381:ALA:HB3	1:2:318:VAL:HG22	2.00	0.44
1:4:222:GLU:OE1	1:4:222:GLU:N	2.50	0.44
1:5:229:LEU:HD21	1:5:235:THR:HG23	1.98	0.44
1:7:318:VAL:HG12	1:7:334:GLY:HA3	1.99	0.44
1:H:222:GLU:OE1	1:H:222:GLU:N	2.50	0.44
1:H:406:ARG:HB2	1:H:531:LYS:NZ	2.33	0.44
1:M:156:HIS:N	1:M:447:LYS:O	2.43	0.44
1:O:378:ARG:HD2	1:O:378:ARG:HA	1.73	0.44
1:P:29:GLY:N	1:Q:234:SER:O	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:234:SER:O	1:i:29:GLY:N	2.32	0.44
1:V:250:ARG:O	1:V:536:LYS:HG2	2.18	0.44
1:a:229:LEU:HD21	1:a:235:THR:HG23	1.98	0.44
1:c:378:ARG:HA	1:c:378:ARG:HD2	1.73	0.44
1:e:399:PHE:CD1	1:e:400:PRO:HD2	2.53	0.44
1:f:318:VAL:HG22	1:g:381:ALA:HB3	2.00	0.44
1:g:250:ARG:HD2	1:g:532:THR:O	2.17	0.44
1:h:29:GLY:N	1:i:234:SER:O	2.33	0.44
1:h:70:HIS:CD2	1:h:450:LYS:HG3	2.53	0.44
1:i:250:ARG:HD2	1:i:532:THR:O	2.17	0.44
1:i:381:ALA:HB3	1:j:318:VAL:HG22	2.00	0.44
1:j:29:GLY:N	1:x:234:SER:O	2.32	0.44
1:k:51:ASP:OD1	1:k:481:ARG:NE	2.38	0.44
1:p:250:ARG:O	1:p:536:LYS:HG2	2.18	0.44
1:t:70:HIS:CD2	1:t:450:LYS:HG3	2.53	0.44
1:u:406:ARG:HB2	1:u:531:LYS:NZ	2.33	0.44
1:v:250:ARG:HD2	1:v:532:THR:O	2.17	0.44
1:x:70:HIS:CD2	1:x:450:LYS:HG3	2.53	0.44
1:3:229:LEU:HD21	1:3:235:THR:HG23	1.98	0.44
1:4:406:ARG:HB2	1:4:531:LYS:NZ	2.33	0.44
1:5:318:VAL:HG12	1:5:334:GLY:HA3	1.99	0.44
1:5:406:ARG:HB2	1:5:531:LYS:NZ	2.33	0.44
1:6:287:TYR:OH	1:7:309:GLY:O	2.27	0.44
1:8:378:ARG:HA	1:8:378:ARG:HD2	1.73	0.44
1:C:381:ALA:HB3	1:b:318:VAL:HG22	2.00	0.43
1:F:250:ARG:O	1:F:536:LYS:HG2	2.18	0.43
1:G:70:HIS:CD2	1:G:450:LYS:HG3	2.53	0.43
1:G:222:GLU:OE1	1:G:222:GLU:N	2.50	0.43
1:G:318:VAL:HG12	1:G:334:GLY:HA3	1.99	0.43
1:I:250:ARG:HD2	1:I:532:THR:O	2.17	0.43
1:I:300:LEU:HG	1:I:344:LEU:HD23	2.00	0.43
1:K:70:HIS:CD2	1:K:450:LYS:HG3	2.53	0.43
1:M:234:SER:O	1:c:29:GLY:N	2.33	0.43
1:N:250:ARG:HD2	1:N:532:THR:O	2.17	0.43
1:N:381:ALA:HB3	1:P:318:VAL:HG22	2.00	0.43
1:T:250:ARG:HD2	1:T:532:THR:O	2.17	0.43
1:W:179:GLU:OE2	1:W:411:ARG:NH1	2.38	0.43
1:c:136:LYS:NZ	1:c:149:ASN:OD1	2.37	0.43
1:d:399:PHE:CD1	1:d:400:PRO:HD2	2.53	0.43
1:d:489:PRO:HD3	1:n:108:PRO:HB2	1.99	0.43
1:n:399:PHE:CD1	1:n:400:PRO:HD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:51:ASP:OD1	1:s:481:ARG:NE	2.38	0.43
1:s:85:LYS:HG3	1:s:332:GLY:HA3	2.00	0.43
1:t:222:GLU:OE1	1:t:222:GLU:N	2.50	0.43
1:u:229:LEU:HD21	1:u:235:THR:HG23	1.98	0.43
1:w:406:ARG:HB2	1:w:531:LYS:NZ	2.33	0.43
1:y:70:HIS:CD2	1:y:450:LYS:HG3	2.53	0.43
1:y:179:GLU:OE2	1:y:411:ARG:NH1	2.38	0.43
1:y:250:ARG:O	1:y:536:LYS:HG2	2.18	0.43
1:z:397:TRP:HB2	1:1:397:TRP:CD2	2.53	0.43
1:1:399:PHE:CD1	1:1:400:PRO:HD2	2.53	0.43
1:7:300:LEU:HG	1:7:344:LEU:HD23	2.00	0.43
1:B:399:PHE:CD1	1:B:400:PRO:HD2	2.53	0.43
1:D:234:SER:O	1:E:29:GLY:N	2.33	0.43
1:D:397:TRP:HB2	1:N:397:TRP:CD2	2.53	0.43
1:E:406:ARG:HB2	1:E:531:LYS:NZ	2.33	0.43
1:F:179:GLU:OE2	1:F:411:ARG:NH1	2.38	0.43
1:F:399:PHE:CD1	1:F:400:PRO:HD2	2.53	0.43
1:G:85:LYS:HG3	1:G:332:GLY:HA3	2.00	0.43
1:K:397:TRP:CD2	1:8:397:TRP:HB2	2.54	0.43
1:M:70:HIS:CD2	1:M:450:LYS:HG3	2.53	0.43
1:Q:318:VAL:HG12	1:Q:334:GLY:HA3	1.99	0.43
1:T:399:PHE:CD1	1:T:400:PRO:HD2	2.53	0.43
1:U:85:LYS:HG3	1:U:332:GLY:HA3	2.00	0.43
1:U:300:LEU:HG	1:U:344:LEU:HD23	2.00	0.43
1:V:381:ALA:HB3	1:e:318:VAL:HG22	2.00	0.43
1:X:318:VAL:HG12	1:X:334:GLY:HA3	1.99	0.43
1:Y:300:LEU:HG	1:Y:344:LEU:HD23	2.00	0.43
1:Z:397:TRP:HB2	1:4:397:TRP:CD2	2.54	0.43
1:d:108:PRO:HB2	1:n:489:PRO:HD3	1.99	0.43
1:d:406:ARG:HB2	1:d:531:LYS:NZ	2.33	0.43
1:g:300:LEU:HG	1:g:344:LEU:HD23	2.00	0.43
1:i:397:TRP:CD2	1:k:397:TRP:HB2	2.53	0.43
1:o:300:LEU:HG	1:o:344:LEU:HD23	2.00	0.43
1:s:300:LEU:HG	1:s:344:LEU:HD23	2.00	0.43
1:t:85:LYS:HG3	1:t:332:GLY:HA3	2.00	0.43
1:t:108:PRO:HB2	1:5:489:PRO:HD3	2.00	0.43
1:t:318:VAL:HG12	1:t:334:GLY:HA3	1.99	0.43
1:u:300:LEU:HG	1:u:344:LEU:HD23	2.00	0.43
1:x:318:VAL:HG12	1:x:334:GLY:HA3	1.99	0.43
1:y:399:PHE:CD1	1:y:400:PRO:HD2	2.53	0.43
1:z:70:HIS:CD2	1:z:450:LYS:HG3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:378:ARG:HD2	1:3:378:ARG:HA	1.73	0.43
1:5:222:GLU:OE1	1:5:222:GLU:N	2.50	0.43
1:B:397:TRP:CD2	1:L:397:TRP:HB2	2.54	0.43
1:C:70:HIS:CD2	1:C:450:LYS:HG3	2.53	0.43
1:C:300:LEU:HG	1:C:344:LEU:HD23	2.01	0.43
1:E:318:VAL:HG22	1:F:381:ALA:HB3	2.00	0.43
1:G:108:PRO:HB2	1:H:489:PRO:HD3	2.00	0.43
1:G:397:TRP:HB2	1:I:397:TRP:CD2	2.54	0.43
1:H:85:LYS:HG3	1:H:332:GLY:HA3	2.01	0.43
1:H:397:TRP:CD2	1:Y:397:TRP:HB2	2.54	0.43
1:I:250:ARG:O	1:I:536:LYS:HG2	2.18	0.43
1:K:318:VAL:HG12	1:K:334:GLY:HA3	1.99	0.43
1:L:300:LEU:HG	1:L:344:LEU:HD23	2.00	0.43
1:L:318:VAL:HG12	1:L:334:GLY:HA3	1.99	0.43
1:M:85:LYS:HG3	1:M:332:GLY:HA3	2.01	0.43
1:O:51:ASP:OD1	1:O:481:ARG:NE	2.39	0.43
1:O:397:TRP:HB2	1:m:397:TRP:CD2	2.54	0.43
1:P:85:LYS:HG3	1:P:332:GLY:HA3	2.01	0.43
1:Q:300:LEU:HG	1:Q:344:LEU:HD23	2.00	0.43
1:R:85:LYS:HG3	1:R:332:GLY:HA3	2.01	0.43
1:R:222:GLU:OE1	1:R:222:GLU:N	2.50	0.43
1:R:318:VAL:HG22	1:U:381:ALA:HB3	2.00	0.43
1:T:397:TRP:CD2	1:l:397:TRP:HB2	2.54	0.43
1:T:406:ARG:HB2	1:T:531:LYS:NZ	2.33	0.43
1:X:300:LEU:HG	1:X:344:LEU:HD23	2.00	0.43
1:c:318:VAL:HG22	1:p:381:ALA:HB3	2.00	0.43
1:f:406:ARG:HB2	1:f:531:LYS:NZ	2.33	0.43
1:g:70:HIS:CD2	1:g:450:LYS:HG3	2.53	0.43
1:h:85:LYS:HG3	1:h:332:GLY:HA3	2.01	0.43
1:h:179:GLU:OE2	1:h:411:ARG:NH1	2.38	0.43
1:h:399:PHE:CD1	1:h:400:PRO:HD2	2.53	0.43
1:h:489:PRO:HD3	1:k:108:PRO:HB2	2.00	0.43
1:j:85:LYS:HG3	1:j:332:GLY:HA3	2.01	0.43
1:j:88:ARG:NH2	1:l:507:ASN:OD1	2.51	0.43
1:j:406:ARG:HB2	1:j:531:LYS:NZ	2.33	0.43
1:k:234:SER:O	1:w:29:GLY:N	2.33	0.43
1:m:399:PHE:CD1	1:m:400:PRO:HD2	2.53	0.43
1:m:406:ARG:HB2	1:m:531:LYS:NZ	2.33	0.43
1:n:406:ARG:HB2	1:n:531:LYS:NZ	2.33	0.43
1:o:318:VAL:HG12	1:o:334:GLY:HA3	1.99	0.43
1:q:85:LYS:HG3	1:q:332:GLY:HA3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:318:VAL:HG22	1:s:381:ALA:HB3	2.00	0.43
1:t:250:ARG:O	1:t:536:LYS:HG2	2.18	0.43
1:t:397:TRP:HB2	1:u:397:TRP:CD2	2.54	0.43
1:u:250:ARG:O	1:u:536:LYS:HG2	2.18	0.43
1:v:250:ARG:O	1:v:536:LYS:HG2	2.18	0.43
1:w:318:VAL:HG22	1:y:381:ALA:HB3	2.00	0.43
1:x:300:LEU:HG	1:x:344:LEU:HD23	2.00	0.43
1:y:85:LYS:HG3	1:y:332:GLY:HA3	2.01	0.43
1:z:126:MET:HB2	1:z:241:PHE:HE2	1.84	0.43
1:z:250:ARG:O	1:z:536:LYS:HG2	2.18	0.43
1:z:300:LEU:HG	1:z:344:LEU:HD23	2.00	0.43
1:z:318:VAL:HG12	1:z:334:GLY:HA3	1.99	0.43
1:z:406:ARG:HB2	1:z:531:LYS:NZ	2.33	0.43
1:4:70:HIS:CD2	1:4:450:LYS:HG3	2.53	0.43
1:5:397:TRP:CD2	1:7:397:TRP:HB2	2.54	0.43
1:5:399:PHE:CD1	1:5:400:PRO:HD2	2.53	0.43
1:8:179:GLU:OE2	1:8:411:ARG:NH1	2.38	0.43
1:C:250:ARG:O	1:C:536:LYS:HG2	2.18	0.43
1:D:108:PRO:HB2	1:M:489:PRO:HD3	2.00	0.43
1:D:126:MET:HB2	1:D:241:PHE:HE2	1.84	0.43
1:E:397:TRP:HB2	1:Q:397:TRP:CD2	2.54	0.43
1:F:85:LYS:HG3	1:F:332:GLY:HA3	2.01	0.43
1:G:250:ARG:O	1:G:536:LYS:HG2	2.18	0.43
1:H:399:PHE:CD1	1:H:400:PRO:HD2	2.53	0.43
1:H:507:ASN:OD1	1:I:88:ARG:NH2	2.51	0.43
1:I:85:LYS:HG3	1:I:332:GLY:HA3	2.01	0.43
1:L:126:MET:HB2	1:L:241:PHE:HE2	1.84	0.43
1:L:250:ARG:O	1:L:536:LYS:HG2	2.18	0.43
1:M:125:LYS:HG2	1:M:476:VAL:HB	2.01	0.43
1:M:300:LEU:HG	1:M:344:LEU:HD23	2.00	0.43
1:M:399:PHE:CD1	1:M:400:PRO:HD2	2.53	0.43
1:O:507:ASN:OD1	1:P:88:ARG:NH2	2.51	0.43
1:P:406:ARG:HB2	1:P:531:LYS:NZ	2.33	0.43
1:Q:250:ARG:O	1:Q:536:LYS:HG2	2.18	0.43
1:S:108:PRO:HB2	1:T:489:PRO:HD3	2.00	0.43
1:S:381:ALA:HB3	1:U:318:VAL:HG22	2.00	0.43
1:U:156:HIS:N	1:U:447:LYS:O	2.43	0.43
1:U:250:ARG:O	1:U:536:LYS:HG2	2.18	0.43
1:V:318:VAL:HG22	1:X:381:ALA:HB3	2.00	0.43
1:X:507:ASN:OD1	1:Y:88:ARG:NH2	2.51	0.43
1:a:85:LYS:HG3	1:a:332:GLY:HA3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:29:GLY:N	1:o:234:SER:O	2.33	0.43
1:b:406:ARG:HB2	1:b:531:LYS:NZ	2.33	0.43
1:c:250:ARG:O	1:c:536:LYS:HG2	2.18	0.43
1:e:29:GLY:N	1:h:234:SER:O	2.33	0.43
1:e:250:ARG:O	1:e:536:LYS:HG2	2.18	0.43
1:h:125:LYS:HG2	1:h:476:VAL:HB	2.01	0.43
1:h:300:LEU:HG	1:h:344:LEU:HD23	2.00	0.43
1:j:300:LEU:HG	1:j:344:LEU:HD23	2.00	0.43
1:k:126:MET:HB2	1:k:241:PHE:HE2	1.84	0.43
1:l:126:MET:HB2	1:l:241:PHE:HE2	1.84	0.43
1:n:300:LEU:HG	1:n:344:LEU:HD23	2.00	0.43
1:s:156:HIS:N	1:s:447:LYS:O	2.43	0.43
1:s:250:ARG:O	1:s:536:LYS:HG2	2.18	0.43
1:u:85:LYS:HG3	1:u:332:GLY:HA3	2.01	0.43
1:w:397:TRP:HB2	1:x:397:TRP:CD2	2.54	0.43
1:3:85:LYS:HG3	1:3:332:GLY:HA3	2.01	0.43
1:4:318:VAL:HG12	1:4:334:GLY:HA3	1.99	0.43
1:5:85:LYS:HG3	1:5:332:GLY:HA3	2.01	0.43
1:A:250:ARG:O	1:A:536:LYS:HG2	2.18	0.43
1:B:125:LYS:HG2	1:B:476:VAL:HB	2.01	0.43
1:B:300:LEU:HG	1:B:344:LEU:HD23	2.00	0.43
1:C:136:LYS:NZ	1:C:149:ASN:OD1	2.37	0.43
1:J:70:HIS:CD2	1:J:450:LYS:HG3	2.53	0.43
1:L:406:ARG:HB2	1:L:531:LYS:NZ	2.33	0.43
1:M:29:GLY:N	1:N:234:SER:O	2.33	0.43
1:M:126:MET:HB2	1:M:241:PHE:HE2	1.84	0.43
1:M:250:ARG:O	1:M:536:LYS:HG2	2.18	0.43
1:N:250:ARG:O	1:N:536:LYS:HG2	2.18	0.43
1:N:397:TRP:HB2	1:P:397:TRP:CD2	2.54	0.43
1:O:126:MET:HB2	1:O:241:PHE:HE2	1.84	0.43
1:O:250:ARG:O	1:O:536:LYS:HG2	2.18	0.43
1:P:300:LEU:HG	1:P:344:LEU:HD23	2.00	0.43
1:P:318:VAL:HG12	1:P:334:GLY:HA3	1.99	0.43
1:Q:378:ARG:HA	1:Q:378:ARG:HD2	1.73	0.43
1:Y:489:PRO:HD3	1:Z:108:PRO:HB2	2.00	0.43
1:Z:250:ARG:O	1:Z:536:LYS:HG2	2.18	0.43
1:c:126:MET:HB2	1:c:241:PHE:HE2	1.84	0.43
1:d:250:ARG:O	1:d:536:LYS:HG2	2.18	0.43
1:d:300:LEU:HG	1:d:344:LEU:HD23	2.00	0.43
1:e:126:MET:HB2	1:e:241:PHE:HE2	1.84	0.43
1:g:88:ARG:NH2	1:k:507:ASN:OD1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:250:ARG:O	1:g:536:LYS:HG2	2.18	0.43
1:h:126:MET:HB2	1:h:241:PHE:HE2	1.84	0.43
1:h:250:ARG:O	1:h:536:LYS:HG2	2.18	0.43
1:i:250:ARG:O	1:i:536:LYS:HG2	2.18	0.43
1:i:397:TRP:HB2	1:j:397:TRP:CD2	2.54	0.43
1:j:108:PRO:HB2	1:w:489:PRO:HD3	1.99	0.43
1:k:300:LEU:HG	1:k:344:LEU:HD23	2.00	0.43
1:m:489:PRO:HD3	1:r:108:PRO:HB2	2.00	0.43
1:n:250:ARG:O	1:n:536:LYS:HG2	2.18	0.43
1:o:381:ALA:HB3	1:p:318:VAL:HG22	2.00	0.43
1:o:507:ASN:OD1	1:7:88:ARG:NH2	2.51	0.43
1:p:378:ARG:HD2	1:p:378:ARG:HA	1.73	0.43
1:q:222:GLU:OE1	1:q:222:GLU:N	2.50	0.43
1:u:88:ARG:NH2	1:5:507:ASN:OD1	2.51	0.43
1:v:399:PHE:CD1	1:v:400:PRO:HD2	2.53	0.43
1:w:250:ARG:O	1:w:536:LYS:HG2	2.18	0.43
1:x:126:MET:HB2	1:x:241:PHE:HE2	1.84	0.43
1:x:250:ARG:O	1:x:536:LYS:HG2	2.18	0.43
1:1:125:LYS:HG2	1:1:476:VAL:HB	2.01	0.43
1:7:489:PRO:HD3	1:8:108:PRO:HB2	2.00	0.43
1:A:125:LYS:HG2	1:A:476:VAL:HB	2.01	0.43
1:A:399:PHE:CD1	1:A:400:PRO:HD2	2.53	0.43
1:B:287:TYR:OH	1:J:309:GLY:O	2.29	0.43
1:B:320:ASN:ND2	1:B:324:THR:OG1	2.52	0.43
1:C:72:TYR:OH	1:C:222:GLU:OE1	2.36	0.43
1:C:320:ASN:ND2	1:C:324:THR:OG1	2.52	0.43
1:C:397:TRP:HB2	1:b:397:TRP:CD2	2.54	0.43
1:D:125:LYS:HG2	1:D:476:VAL:HB	2.01	0.43
1:D:300:LEU:HG	1:D:344:LEU:HD23	2.00	0.43
1:D:320:ASN:ND2	1:D:324:THR:OG1	2.52	0.43
1:E:250:ARG:O	1:E:536:LYS:HG2	2.18	0.43
1:G:399:PHE:CD1	1:G:400:PRO:HD2	2.53	0.43
1:H:381:ALA:HB3	1:W:318:VAL:HG22	2.00	0.43
1:K:125:LYS:HG2	1:K:476:VAL:HB	2.01	0.43
1:M:406:ARG:HB2	1:M:531:LYS:NZ	2.33	0.43
1:M:507:ASN:OD1	1:N:88:ARG:NH2	2.51	0.43
1:N:29:GLY:N	1:m:234:SER:O	2.32	0.43
1:N:126:MET:HB2	1:N:241:PHE:HE2	1.84	0.43
1:N:222:GLU:OE1	1:N:222:GLU:N	2.50	0.43
1:P:70:HIS:CD2	1:P:450:LYS:HG3	2.53	0.43
1:Q:125:LYS:HG2	1:Q:476:VAL:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:126:MET:HB2	1:Q:241:PHE:HE2	1.84	0.43
1:S:250:ARG:O	1:S:536:LYS:HG2	2.18	0.43
1:U:51:ASP:OD1	1:U:481:ARG:NE	2.38	0.43
1:U:125:LYS:HG2	1:U:476:VAL:HB	2.01	0.43
1:W:70:HIS:CD2	1:W:450:LYS:HG3	2.53	0.43
1:Z:125:LYS:HG2	1:Z:476:VAL:HB	2.01	0.43
1:Z:397:TRP:CD2	1:3:397:TRP:HB2	2.54	0.43
1:a:397:TRP:HB2	1:8:397:TRP:CD2	2.54	0.43
1:b:318:VAL:HG12	1:b:334:GLY:HA3	1.99	0.43
1:b:489:PRO:HD3	1:c:108:PRO:HB2	1.99	0.43
1:c:125:LYS:HG2	1:c:476:VAL:HB	2.01	0.43
1:c:300:LEU:HG	1:c:344:LEU:HD23	2.00	0.43
1:e:108:PRO:HB2	1:f:489:PRO:HD3	1.99	0.43
1:e:300:LEU:HG	1:e:344:LEU:HD23	2.00	0.43
1:f:397:TRP:CD2	1:g:397:TRP:HB2	2.54	0.43
1:g:320:ASN:ND2	1:g:324:THR:OG1	2.52	0.43
1:k:320:ASN:ND2	1:k:324:THR:OG1	2.52	0.43
1:l:51:ASP:OD1	1:l:481:ARG:NE	2.39	0.43
1:n:126:MET:HB2	1:n:241:PHE:HE2	1.84	0.43
1:o:250:ARG:O	1:o:536:LYS:HG2	2.18	0.43
1:r:250:ARG:O	1:r:536:LYS:HG2	2.18	0.43
1:r:381:ALA:HB3	1:s:318:VAL:HG22	2.00	0.43
1:r:406:ARG:HB2	1:r:531:LYS:NZ	2.33	0.43
1:t:399:PHE:CD1	1:t:400:PRO:HD2	2.53	0.43
1:u:179:GLU:OE2	1:u:411:ARG:NH1	2.38	0.43
1:v:125:LYS:HG2	1:v:476:VAL:HB	2.01	0.43
1:w:126:MET:HB2	1:w:241:PHE:HE2	1.84	0.43
1:x:125:LYS:HG2	1:x:476:VAL:HB	2.01	0.43
1:x:320:ASN:ND2	1:x:324:THR:OG1	2.52	0.43
1:z:85:LYS:HG3	1:z:332:GLY:HA3	2.00	0.43
1:1:250:ARG:O	1:1:536:LYS:HG2	2.18	0.43
1:1:300:LEU:HG	1:1:344:LEU:HD23	2.00	0.43
1:2:70:HIS:CD2	1:2:450:LYS:HG3	2.53	0.43
1:3:179:GLU:OE2	1:3:411:ARG:NH1	2.38	0.43
1:4:125:LYS:HG2	1:4:476:VAL:HB	2.01	0.43
1:4:378:ARG:HA	1:4:378:ARG:HD2	1.73	0.43
1:5:126:MET:HB2	1:5:241:PHE:HE2	1.84	0.43
1:5:381:ALA:HB3	1:6:318:VAL:HG22	2.00	0.43
1:6:250:ARG:O	1:6:536:LYS:HG2	2.18	0.43
1:8:125:LYS:HG2	1:8:476:VAL:HB	2.01	0.43
1:8:250:ARG:O	1:8:536:LYS:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:85:LYS:HG3	1:B:332:GLY:HA3	2.01	0.43
1:B:250:ARG:O	1:B:536:LYS:HG2	2.18	0.43
1:C:88:ARG:NH2	1:D:507:ASN:OD1	2.51	0.43
1:C:489:PRO:HD3	1:L:108:PRO:HB2	2.00	0.43
1:D:250:ARG:O	1:D:536:LYS:HG2	2.18	0.43
1:D:397:TRP:CD2	1:P:397:TRP:HB2	2.53	0.43
1:E:126:MET:HB2	1:E:241:PHE:HE2	1.84	0.43
1:E:381:ALA:HB3	1:Q:318:VAL:HG22	2.00	0.43
1:E:489:PRO:HD3	1:P:108:PRO:HB2	2.00	0.43
1:H:126:MET:HB2	1:H:241:PHE:HE2	1.84	0.43
1:H:300:LEU:HG	1:H:344:LEU:HD23	2.00	0.43
1:J:156:HIS:N	1:J:447:LYS:O	2.43	0.43
1:L:85:LYS:HG3	1:L:332:GLY:HA3	2.01	0.43
1:N:70:HIS:CD2	1:N:450:LYS:HG3	2.53	0.43
1:O:125:LYS:HG2	1:O:476:VAL:HB	2.01	0.43
1:O:397:TRP:CD2	1:n:397:TRP:HB2	2.54	0.43
1:P:320:ASN:ND2	1:P:324:THR:OG1	2.52	0.43
1:Q:85:LYS:HG3	1:Q:332:GLY:HA3	2.01	0.43
1:Q:320:ASN:ND2	1:Q:324:THR:OG1	2.52	0.43
1:T:300:LEU:HG	1:T:344:LEU:HD23	2.00	0.43
1:U:320:ASN:ND2	1:U:324:THR:OG1	2.52	0.43
1:V:126:MET:HB2	1:V:241:PHE:HE2	1.84	0.43
1:W:250:ARG:O	1:W:536:LYS:HG2	2.18	0.43
1:X:250:ARG:O	1:X:536:LYS:HG2	2.18	0.43
1:a:300:LEU:HG	1:a:344:LEU:HD23	2.00	0.43
1:b:85:LYS:HG3	1:b:332:GLY:HA3	2.01	0.43
1:b:126:MET:HB2	1:b:241:PHE:HE2	1.84	0.43
1:d:126:MET:HB2	1:d:241:PHE:HE2	1.84	0.43
1:e:125:LYS:HG2	1:e:476:VAL:HB	2.01	0.43
1:f:126:MET:HB2	1:f:241:PHE:HE2	1.84	0.43
1:h:406:ARG:HB2	1:h:531:LYS:NZ	2.33	0.43
1:h:507:ASN:OD1	1:i:88:ARG:NH2	2.51	0.43
1:i:126:MET:HB2	1:i:241:PHE:HE2	1.84	0.43
1:i:222:GLU:OE1	1:i:222:GLU:N	2.50	0.43
1:j:70:HIS:CD2	1:j:450:LYS:HG3	2.53	0.43
1:j:318:VAL:HG12	1:j:334:GLY:HA3	1.99	0.43
1:j:320:ASN:ND2	1:j:324:THR:OG1	2.52	0.43
1:k:125:LYS:HG2	1:k:476:VAL:HB	2.01	0.43
1:l:125:LYS:HG2	1:l:476:VAL:HB	2.01	0.43
1:l:250:ARG:O	1:l:536:LYS:HG2	2.18	0.43
1:m:300:LEU:HG	1:m:344:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:125:LYS:HG2	1:s:476:VAL:HB	2.01	0.43
1:s:320:ASN:ND2	1:s:324:THR:OG1	2.52	0.43
1:t:300:LEU:HG	1:t:344:LEU:HD23	2.00	0.43
1:t:406:ARG:HB2	1:t:531:LYS:NZ	2.33	0.43
1:w:381:ALA:HB3	1:x:318:VAL:HG22	2.00	0.43
1:x:85:LYS:HG3	1:x:332:GLY:HA3	2.01	0.43
1:x:406:ARG:HB2	1:x:531:LYS:NZ	2.33	0.43
1:z:125:LYS:HG2	1:z:476:VAL:HB	2.01	0.43
1:1:85:LYS:HG3	1:1:332:GLY:HA3	2.01	0.43
1:1:320:ASN:ND2	1:1:324:THR:OG1	2.52	0.43
1:1:397:TRP:HB2	1:2:397:TRP:CD2	2.54	0.43
1:2:320:ASN:ND2	1:2:324:THR:OG1	2.52	0.43
1:2:489:PRO:HD3	1:4:108:PRO:HB2	2.00	0.43
1:4:85:LYS:HG3	1:4:332:GLY:HA3	2.00	0.43
1:5:300:LEU:HG	1:5:344:LEU:HD23	2.00	0.43
1:A:252:TYR:CD1	1:A:253:ILE:HG23	2.54	0.43
1:B:88:ARG:NH2	1:C:507:ASN:OD1	2.51	0.43
1:B:252:TYR:CD1	1:B:253:ILE:HG23	2.54	0.43
1:C:108:PRO:HB2	1:L:489:PRO:HD3	2.00	0.43
1:C:252:TYR:CD1	1:C:253:ILE:HG23	2.54	0.43
1:E:397:TRP:CD2	1:F:397:TRP:HB2	2.54	0.43
1:G:406:ARG:HB2	1:G:531:LYS:NZ	2.33	0.43
1:H:29:GLY:N	1:I:234:SER:O	2.32	0.43
1:J:320:ASN:ND2	1:J:324:THR:OG1	2.52	0.43
1:K:85:LYS:HG3	1:K:332:GLY:HA3	2.00	0.43
1:K:261:PRO:HG3	1:a:193:ILE:HD11	2.01	0.43
1:M:397:TRP:CD2	1:b:397:TRP:HB2	2.54	0.43
1:P:125:LYS:HG2	1:P:476:VAL:HB	2.01	0.43
1:Q:406:ARG:HB2	1:Q:531:LYS:NZ	2.33	0.43
1:R:51:ASP:OD1	1:R:481:ARG:NE	2.38	0.43
1:S:397:TRP:HB2	1:U:397:TRP:CD2	2.54	0.43
1:U:126:MET:HB2	1:U:241:PHE:HE2	1.84	0.43
1:U:252:TYR:CD1	1:U:253:ILE:HG23	2.54	0.43
1:V:125:LYS:HG2	1:V:476:VAL:HB	2.01	0.43
1:W:397:TRP:HB2	1:Y:397:TRP:CD2	2.53	0.43
1:X:125:LYS:HG2	1:X:476:VAL:HB	2.01	0.43
1:Y:250:ARG:O	1:Y:536:LYS:HG2	2.18	0.43
1:d:397:TRP:HB2	1:l:397:TRP:CD2	2.54	0.43
1:f:85:LYS:HG3	1:f:332:GLY:HA3	2.01	0.43
1:f:318:VAL:HG12	1:f:334:GLY:HA3	1.99	0.43
1:g:72:TYR:OH	1:g:222:GLU:OE1	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:252:TYR:CD1	1:g:253:ILE:HG23	2.54	0.43
1:i:70:HIS:CD2	1:i:450:LYS:HG3	2.53	0.43
1:j:125:LYS:HG2	1:j:476:VAL:HB	2.01	0.43
1:j:250:ARG:O	1:j:536:LYS:HG2	2.18	0.43
1:j:397:TRP:HB2	1:k:397:TRP:CD2	2.53	0.43
1:k:250:ARG:O	1:k:536:LYS:HG2	2.18	0.43
1:o:85:LYS:HG3	1:o:332:GLY:HA3	2.01	0.43
1:o:125:LYS:HG2	1:o:476:VAL:HB	2.01	0.43
1:o:406:ARG:HB2	1:o:531:LYS:NZ	2.33	0.43
1:q:179:GLU:OE2	1:q:411:ARG:NH1	2.38	0.43
1:r:397:TRP:HB2	1:s:397:TRP:CD2	2.54	0.43
1:r:399:PHE:CD1	1:r:400:PRO:HD2	2.53	0.43
1:s:252:TYR:CD1	1:s:253:ILE:HG23	2.54	0.43
1:z:252:TYR:CD1	1:z:253:ILE:HG23	2.54	0.43
1:1:252:TYR:CD1	1:1:253:ILE:HG23	2.54	0.43
1:3:193:ILE:HD11	1:4:261:PRO:HG3	2.01	0.43
1:6:70:HIS:CD2	1:6:450:LYS:HG3	2.53	0.43
1:6:399:PHE:CD1	1:6:400:PRO:HD2	2.53	0.43
1:7:250:ARG:O	1:7:536:LYS:HG2	2.18	0.43
1:C:397:TRP:CD2	1:M:397:TRP:HB2	2.53	0.43
1:G:300:LEU:HG	1:G:344:LEU:HD23	2.00	0.43
1:G:320:ASN:ND2	1:G:324:THR:OG1	2.52	0.43
1:I:179:GLU:OE2	1:I:411:ARG:NH1	2.38	0.43
1:J:252:TYR:CD1	1:J:253:ILE:HG23	2.54	0.43
1:L:125:LYS:HG2	1:L:476:VAL:HB	2.01	0.43
1:L:252:TYR:CD1	1:L:253:ILE:HG23	2.54	0.43
1:O:85:LYS:HG3	1:O:332:GLY:HA3	2.00	0.43
1:P:250:ARG:O	1:P:536:LYS:HG2	2.18	0.43
1:Q:399:PHE:CD1	1:Q:400:PRO:HD2	2.53	0.43
1:R:179:GLU:OE2	1:R:411:ARG:NH1	2.38	0.43
1:R:250:ARG:O	1:R:536:LYS:HG2	2.18	0.43
1:R:300:LEU:HG	1:R:344:LEU:HD23	2.00	0.43
1:S:85:LYS:HG3	1:S:332:GLY:HA3	2.01	0.43
1:S:399:PHE:CD1	1:S:400:PRO:HD2	2.53	0.43
1:T:320:ASN:ND2	1:T:324:THR:OG1	2.52	0.43
1:W:399:PHE:CD1	1:W:400:PRO:HD2	2.53	0.43
1:X:85:LYS:HG3	1:X:332:GLY:HA3	2.01	0.43
1:Y:252:TYR:CD1	1:Y:253:ILE:HG23	2.54	0.43
1:Z:252:TYR:CD1	1:Z:253:ILE:HG23	2.54	0.43
1:Z:300:LEU:HG	1:Z:344:LEU:HD23	2.00	0.43
1:a:125:LYS:HG2	1:a:476:VAL:HB	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:378:ARG:HD2	1:a:378:ARG:HA	1.73	0.43
1:b:250:ARG:O	1:b:536:LYS:HG2	2.18	0.43
1:b:320:ASN:ND2	1:b:324:THR:OG1	2.52	0.43
1:f:320:ASN:ND2	1:f:324:THR:OG1	2.52	0.43
1:f:397:TRP:HB2	1:h:397:TRP:CD2	2.54	0.43
1:g:507:ASN:OD1	1:l:88:ARG:NH2	2.51	0.43
1:k:85:LYS:HG3	1:k:332:GLY:HA3	2.01	0.43
1:m:250:ARG:O	1:m:536:LYS:HG2	2.18	0.43
1:m:320:ASN:ND2	1:m:324:THR:OG1	2.52	0.43
1:n:85:LYS:HG3	1:n:332:GLY:HA3	2.01	0.43
1:o:320:ASN:ND2	1:o:324:THR:OG1	2.52	0.43
1:p:125:LYS:HG2	1:p:476:VAL:HB	2.01	0.43
1:p:126:MET:HB2	1:p:241:PHE:HE2	1.84	0.43
1:r:85:LYS:HG3	1:r:332:GLY:HA3	2.01	0.43
1:r:126:MET:HB2	1:r:241:PHE:HE2	1.84	0.43
1:s:126:MET:HB2	1:s:241:PHE:HE2	1.84	0.43
1:t:320:ASN:ND2	1:t:324:THR:OG1	2.52	0.43
1:v:252:TYR:CD1	1:v:253:ILE:HG23	2.54	0.43
1:w:397:TRP:CD2	1:y:397:TRP:HB2	2.54	0.43
1:y:406:ARG:HB2	1:y:531:LYS:NZ	2.33	0.43
1:3:300:LEU:HG	1:3:344:LEU:HD23	2.00	0.43
1:4:126:MET:HB2	1:4:241:PHE:HE2	1.84	0.43
1:6:397:TRP:HB2	1:7:397:TRP:CD2	2.53	0.43
1:8:406:ARG:HB2	1:8:531:LYS:NZ	2.33	0.43
1:D:85:LYS:HG3	1:D:332:GLY:HA3	2.01	0.43
1:D:261:PRO:HG3	1:N:193:ILE:HD11	2.01	0.43
1:F:252:TYR:CD1	1:F:253:ILE:HG23	2.54	0.43
1:F:397:TRP:CD2	1:Q:397:TRP:HB2	2.54	0.43
1:H:318:VAL:HG22	1:Y:381:ALA:HB3	2.00	0.43
1:K:193:ILE:HD11	1:8:261:PRO:HG3	2.01	0.43
1:K:378:ARG:HA	1:K:378:ARG:HD2	1.73	0.43
1:O:193:ILE:HD11	1:n:261:PRO:HG3	2.01	0.43
1:Q:108:PRO:HB2	1:R:489:PRO:HD3	2.00	0.43
1:R:406:ARG:HB2	1:R:531:LYS:NZ	2.33	0.43
1:S:126:MET:HB2	1:S:241:PHE:HE2	1.84	0.43
1:W:381:ALA:HB3	1:Y:318:VAL:HG22	2.00	0.43
1:X:126:MET:HB2	1:X:241:PHE:HE2	1.84	0.43
1:X:320:ASN:ND2	1:X:324:THR:OG1	2.52	0.43
1:X:397:TRP:CD2	1:e:397:TRP:HB2	2.54	0.43
1:X:406:ARG:HB2	1:X:531:LYS:NZ	2.33	0.43
1:Z:406:ARG:HB2	1:Z:531:LYS:NZ	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:179:GLU:OE2	1:a:411:ARG:NH1	2.38	0.43
1:a:399:PHE:CD1	1:a:400:PRO:HD2	2.53	0.43
1:c:397:TRP:HB2	1:o:397:TRP:CD2	2.54	0.43
1:d:85:LYS:HG3	1:d:332:GLY:HA3	2.01	0.43
1:f:250:ARG:O	1:f:536:LYS:HG2	2.18	0.43
1:g:126:MET:HB2	1:g:241:PHE:HE2	1.84	0.43
1:g:136:LYS:NZ	1:g:149:ASN:OD1	2.37	0.43
1:g:318:VAL:HG22	1:h:381:ALA:HB3	2.00	0.43
1:g:397:TRP:CD2	1:h:397:TRP:HB2	2.53	0.43
1:g:489:PRO:HD3	1:z:108:PRO:HB2	2.00	0.43
1:i:193:ILE:HD11	1:k:261:PRO:HG3	2.01	0.43
1:i:320:ASN:ND2	1:i:324:THR:OG1	2.52	0.43
1:i:406:ARG:HB2	1:i:531:LYS:NZ	2.33	0.43
1:l:85:LYS:HG3	1:l:332:GLY:HA3	2.00	0.43
1:l:252:TYR:CD1	1:l:253:ILE:HG23	2.54	0.43
1:q:51:ASP:OD1	1:q:481:ARG:NE	2.38	0.43
1:q:300:LEU:HG	1:q:344:LEU:HD23	2.00	0.43
1:t:397:TRP:CD2	1:v:397:TRP:HB2	2.54	0.43
1:u:234:SER:O	1:5:29:GLY:N	2.33	0.43
1:v:29:GLY:N	1:w:234:SER:O	2.33	0.43
1:x:378:ARG:HA	1:x:378:ARG:HD2	1.73	0.43
1:x:397:TRP:HB2	1:y:397:TRP:CD2	2.54	0.43
1:x:399:PHE:CD1	1:x:400:PRO:HD2	2.53	0.43
1:y:252:TYR:CD1	1:y:253:ILE:HG23	2.54	0.43
1:2:252:TYR:CD1	1:2:253:ILE:HG23	2.54	0.43
1:4:300:LEU:HG	1:4:344:LEU:HD23	2.00	0.43
1:7:252:TYR:CD1	1:7:253:ILE:HG23	2.54	0.43
1:8:252:TYR:CD1	1:8:253:ILE:HG23	2.54	0.43
1:8:300:LEU:HG	1:8:344:LEU:HD23	2.00	0.43
1:A:320:ASN:ND2	1:A:324:THR:OG1	2.52	0.42
1:C:261:PRO:HG3	1:b:193:ILE:HD11	2.01	0.42
1:C:318:VAL:HG22	1:M:381:ALA:HB3	2.00	0.42
1:D:252:TYR:CD1	1:D:253:ILE:HG23	2.54	0.42
1:D:318:VAL:HG22	1:P:381:ALA:HB3	2.00	0.42
1:E:261:PRO:HG3	1:Q:193:ILE:HD11	2.01	0.42
1:F:300:LEU:HG	1:F:344:LEU:HD23	2.00	0.42
1:F:406:ARG:HB2	1:F:531:LYS:NZ	2.33	0.42
1:G:126:MET:HB2	1:G:241:PHE:HE2	1.84	0.42
1:H:51:ASP:OD1	1:H:481:ARG:NE	2.38	0.42
1:I:252:TYR:CD1	1:I:253:ILE:HG23	2.54	0.42
1:K:126:MET:HB2	1:K:241:PHE:HE2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:250:ARG:O	1:K:536:LYS:HG2	2.18	0.42
1:K:300:LEU:HG	1:K:344:LEU:HD23	2.00	0.42
1:N:320:ASN:ND2	1:N:324:THR:OG1	2.52	0.42
1:O:252:TYR:CD1	1:O:253:ILE:HG23	2.54	0.42
1:O:381:ALA:HB3	1:m:318:VAL:HG22	2.00	0.42
1:P:126:MET:HB2	1:P:241:PHE:HE2	1.84	0.42
1:R:261:PRO:HG3	1:S:193:ILE:HD11	2.01	0.42
1:T:250:ARG:O	1:T:536:LYS:HG2	2.18	0.42
1:T:318:VAL:HG22	1:l:381:ALA:HB3	2.00	0.42
1:V:397:TRP:HB2	1:e:397:TRP:CD2	2.54	0.42
1:X:318:VAL:HG22	1:e:381:ALA:HB3	2.00	0.42
1:Y:126:MET:HB2	1:Y:241:PHE:HE2	1.84	0.42
1:Z:261:PRO:HG3	1:4:193:ILE:HD11	2.01	0.42
1:Z:320:ASN:ND2	1:Z:324:THR:OG1	2.52	0.42
1:c:381:ALA:HB3	1:o:318:VAL:HG22	2.00	0.42
1:d:252:TYR:CD1	1:d:253:ILE:HG23	2.54	0.42
1:d:261:PRO:HG3	1:l:193:ILE:HD11	2.01	0.42
1:f:193:ILE:HD11	1:g:261:PRO:HG3	2.01	0.42
1:h:252:TYR:CD1	1:h:253:ILE:HG23	2.54	0.42
1:j:126:MET:HB2	1:j:241:PHE:HE2	1.84	0.42
1:k:252:TYR:CD1	1:k:253:ILE:HG23	2.54	0.42
1:m:381:ALA:HB3	1:n:318:VAL:HG22	2.01	0.42
1:n:252:TYR:CD1	1:n:253:ILE:HG23	2.54	0.42
1:n:320:ASN:ND2	1:n:324:THR:OG1	2.52	0.42
1:o:126:MET:HB2	1:o:241:PHE:HE2	1.84	0.42
1:q:250:ARG:O	1:q:536:LYS:HG2	2.18	0.42
1:q:261:PRO:HG3	1:r:193:ILE:HD11	2.01	0.42
1:q:397:TRP:HB2	1:r:397:TRP:CD2	2.54	0.42
1:q:489:PRO:HD3	1:x:108:PRO:HB2	2.00	0.42
1:r:252:TYR:CD1	1:r:253:ILE:HG23	2.54	0.42
1:w:252:TYR:CD1	1:w:253:ILE:HG23	2.54	0.42
1:w:261:PRO:HG3	1:x:193:ILE:HD11	2.01	0.42
1:2:126:MET:HB2	1:2:241:PHE:HE2	1.84	0.42
1:2:156:HIS:N	1:2:447:LYS:O	2.43	0.42
1:2:250:ARG:O	1:2:536:LYS:HG2	2.18	0.42
1:2:507:ASN:OD1	1:3:88:ARG:NH2	2.51	0.42
1:3:125:LYS:HG2	1:3:476:VAL:HB	2.01	0.42
1:3:250:ARG:O	1:3:536:LYS:HG2	2.18	0.42
1:3:399:PHE:CD1	1:3:400:PRO:HD2	2.53	0.42
1:4:250:ARG:O	1:4:536:LYS:HG2	2.18	0.42
1:5:250:ARG:O	1:5:536:LYS:HG2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:318:VAL:HG22	1:7:381:ALA:HB3	2.00	0.42
1:6:300:LEU:HG	1:6:344:LEU:HD23	2.00	0.42
1:6:381:ALA:HB3	1:7:318:VAL:HG22	2.00	0.42
1:7:126:MET:HB2	1:7:241:PHE:HE2	1.84	0.42
1:8:320:ASN:ND2	1:8:324:THR:OG1	2.52	0.42
1:A:29:GLY:N	1:E:234:SER:O	2.33	0.42
1:A:397:TRP:HB2	1:G:397:TRP:CD2	2.54	0.42
1:B:193:ILE:HD11	1:L:261:PRO:HG3	2.01	0.42
1:E:252:TYR:CD1	1:E:253:ILE:HG23	2.54	0.42
1:F:193:ILE:HD11	1:Q:261:PRO:HG3	2.01	0.42
1:F:318:VAL:HG22	1:Q:381:ALA:HB3	2.01	0.42
1:H:252:TYR:CD1	1:H:253:ILE:HG23	2.54	0.42
1:J:126:MET:HB2	1:J:241:PHE:HE2	1.84	0.42
1:K:234:SER:O	1:7:29:GLY:N	2.32	0.42
1:K:397:TRP:HB2	1:a:397:TRP:CD2	2.54	0.42
1:M:252:TYR:CD1	1:M:253:ILE:HG23	2.54	0.42
1:N:406:ARG:HB2	1:N:531:LYS:NZ	2.33	0.42
1:O:136:LYS:NZ	1:O:149:ASN:OD1	2.37	0.42
1:O:261:PRO:HG3	1:m:193:ILE:HD11	2.01	0.42
1:P:252:TYR:CD1	1:P:253:ILE:HG23	2.54	0.42
1:R:125:LYS:HG2	1:R:476:VAL:HB	2.01	0.42
1:R:381:ALA:HB3	1:S:318:VAL:HG22	2.00	0.42
1:R:397:TRP:HB2	1:S:397:TRP:CD2	2.54	0.42
1:S:252:TYR:CD1	1:S:253:ILE:HG23	2.54	0.42
1:T:381:ALA:HB3	1:d:318:VAL:HG22	2.01	0.42
1:U:194:PRO:HB2	1:U:216:ILE:HG23	2.01	0.42
1:V:193:ILE:HD11	1:X:261:PRO:HG3	2.02	0.42
1:V:261:PRO:HG3	1:e:193:ILE:HD11	2.01	0.42
1:V:378:ARG:HD2	1:V:378:ARG:HA	1.73	0.42
1:V:397:TRP:CD2	1:X:397:TRP:HB2	2.53	0.42
1:W:300:LEU:HG	1:W:344:LEU:HD23	2.00	0.42
1:a:250:ARG:O	1:a:536:LYS:HG2	2.18	0.42
1:c:193:ILE:HD11	1:p:261:PRO:HG3	2.01	0.42
1:c:397:TRP:CD2	1:p:397:TRP:HB2	2.54	0.42
1:d:70:HIS:CD2	1:d:450:LYS:HG3	2.53	0.42
1:j:252:TYR:CD1	1:j:253:ILE:HG23	2.54	0.42
1:j:381:ALA:HB3	1:k:318:VAL:HG22	2.00	0.42
1:l:406:ARG:HB2	1:l:531:LYS:NZ	2.33	0.42
1:m:85:LYS:HG3	1:m:332:GLY:HA3	2.00	0.42
1:o:261:PRO:HG3	1:p:193:ILE:HD11	2.02	0.42
1:q:381:ALA:HB3	1:r:318:VAL:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:406:ARG:HB2	1:q:531:LYS:NZ	2.33	0.42
1:s:194:PRO:HB2	1:s:216:ILE:HG23	2.01	0.42
1:t:126:MET:HB2	1:t:241:PHE:HE2	1.84	0.42
1:u:252:TYR:CD1	1:u:253:ILE:HG23	2.54	0.42
1:v:320:ASN:ND2	1:v:324:THR:OG1	2.52	0.42
1:v:406:ARG:HB2	1:v:531:LYS:NZ	2.33	0.42
1:x:261:PRO:HG3	1:y:193:ILE:HD11	2.01	0.42
1:x:381:ALA:HB3	1:y:318:VAL:HG22	2.01	0.42
1:y:300:LEU:HG	1:y:344:LEU:HD23	2.00	0.42
1:3:397:TRP:CD2	1:4:397:TRP:HB2	2.54	0.42
1:5:51:ASP:OD1	1:5:481:ARG:NE	2.38	0.42
1:5:252:TYR:CD1	1:5:253:ILE:HG23	2.54	0.42
1:5:320:ASN:ND2	1:5:324:THR:OG1	2.52	0.42
1:5:397:TRP:HB2	1:6:397:TRP:CD2	2.53	0.42
1:C:126:MET:HB2	1:C:241:PHE:HE2	1.84	0.42
1:G:252:TYR:CD1	1:G:253:ILE:HG23	2.54	0.42
1:G:261:PRO:HG3	1:I:193:ILE:HD11	2.01	0.42
1:H:125:LYS:HG2	1:H:476:VAL:HB	2.01	0.42
1:H:250:ARG:O	1:H:536:LYS:HG2	2.18	0.42
1:H:320:ASN:ND2	1:H:324:THR:OG1	2.52	0.42
1:I:125:LYS:HG2	1:I:476:VAL:HB	2.01	0.42
1:I:194:PRO:HB2	1:I:216:ILE:HG23	2.02	0.42
1:N:252:TYR:CD1	1:N:253:ILE:HG23	2.54	0.42
1:N:507:ASN:OD1	1:m:88:ARG:NH2	2.51	0.42
1:O:406:ARG:HB2	1:O:531:LYS:NZ	2.33	0.42
1:Q:489:PRO:HD3	1:R:108:PRO:HB2	2.00	0.42
1:S:320:ASN:ND2	1:S:324:THR:OG1	2.52	0.42
1:S:378:ARG:HA	1:S:378:ARG:HD2	1.73	0.42
1:T:193:ILE:HD11	1:l:261:PRO:HG3	2.01	0.42
1:Y:320:ASN:ND2	1:Y:324:THR:OG1	2.52	0.42
1:b:125:LYS:HG2	1:b:476:VAL:HB	2.01	0.42
1:c:72:TYR:OH	1:c:222:GLU:OE1	2.37	0.42
1:d:320:ASN:ND2	1:d:324:THR:OG1	2.52	0.42
1:f:125:LYS:HG2	1:f:476:VAL:HB	2.01	0.42
1:n:70:HIS:CD2	1:n:450:LYS:HG3	2.53	0.42
1:n:194:PRO:HB2	1:n:216:ILE:HG23	2.02	0.42
1:n:222:GLU:OE1	1:n:222:GLU:N	2.50	0.42
1:p:85:LYS:HG3	1:p:332:GLY:HA3	2.01	0.42
1:q:108:PRO:HB2	1:x:489:PRO:HD3	2.00	0.42
1:q:125:LYS:HG2	1:q:476:VAL:HB	2.01	0.42
1:r:320:ASN:ND2	1:r:324:THR:OG1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:252:TYR:CD1	1:t:253:ILE:HG23	2.54	0.42
1:t:261:PRO:HG3	1:u:193:ILE:HD11	2.01	0.42
1:t:318:VAL:HG22	1:v:381:ALA:HB3	2.00	0.42
1:u:194:PRO:HB2	1:u:216:ILE:HG23	2.02	0.42
1:u:378:ARG:HD2	1:u:378:ARG:HA	1.73	0.42
1:5:125:LYS:HG2	1:5:476:VAL:HB	2.01	0.42
1:6:320:ASN:ND2	1:6:324:THR:OG1	2.52	0.42
1:7:320:ASN:ND2	1:7:324:THR:OG1	2.52	0.42
1:A:354:GLN:HG3	1:I:268:ALA:HB3	2.01	0.42
1:A:381:ALA:HB3	1:G:318:VAL:HG22	2.01	0.42
1:A:397:TRP:CD2	1:I:397:TRP:HB2	2.54	0.42
1:A:406:ARG:HB2	1:A:531:LYS:NZ	2.33	0.42
1:B:406:ARG:HB2	1:B:531:LYS:NZ	2.33	0.42
1:B:508:PRO:HB2	1:I:488:ARG:NH2	2.35	0.42
1:E:320:ASN:ND2	1:E:324:THR:OG1	2.52	0.42
1:F:125:LYS:HG2	1:F:476:VAL:HB	2.01	0.42
1:F:378:ARG:HA	1:F:378:ARG:HD2	1.73	0.42
1:H:397:TRP:HB2	1:W:397:TRP:CD2	2.53	0.42
1:I:222:GLU:OE1	1:I:222:GLU:N	2.50	0.42
1:J:250:ARG:O	1:J:536:LYS:HG2	2.18	0.42
1:J:501:GLY:O	1:J:507:ASN:HB2	2.20	0.42
1:L:320:ASN:ND2	1:L:324:THR:OG1	2.52	0.42
1:N:194:PRO:HB2	1:N:216:ILE:HG23	2.02	0.42
1:N:300:LEU:HG	1:N:344:LEU:HD23	2.00	0.42
1:Q:488:ARG:NH2	1:R:508:PRO:HB2	2.35	0.42
1:R:193:ILE:HD11	1:U:261:PRO:HG3	2.02	0.42
1:R:501:GLY:O	1:R:507:ASN:HB2	2.20	0.42
1:T:85:LYS:HG3	1:T:332:GLY:HA3	2.00	0.42
1:T:261:PRO:HG3	1:d:193:ILE:HD11	2.01	0.42
1:V:85:LYS:HG3	1:V:332:GLY:HA3	2.01	0.42
1:W:320:ASN:ND2	1:W:324:THR:OG1	2.52	0.42
1:X:501:GLY:O	1:X:507:ASN:HB2	2.20	0.42
1:Y:85:LYS:HG3	1:Y:332:GLY:HA3	2.01	0.42
1:Z:318:VAL:HG22	1:3:381:ALA:HB3	2.00	0.42
1:b:300:LEU:HG	1:b:344:LEU:HD23	2.00	0.42
1:d:194:PRO:HB2	1:d:216:ILE:HG23	2.02	0.42
1:i:252:TYR:CD1	1:i:253:ILE:HG23	2.54	0.42
1:j:261:PRO:HG3	1:k:193:ILE:HD11	2.01	0.42
1:m:125:LYS:HG2	1:m:476:VAL:HB	2.01	0.42
1:m:252:TYR:CD1	1:m:253:ILE:HG23	2.54	0.42
1:m:261:PRO:HG3	1:n:193:ILE:HD11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:397:TRP:HB2	1:p:397:TRP:CD2	2.53	0.42
1:q:193:ILE:HD11	1:s:261:PRO:HG3	2.02	0.42
1:q:397:TRP:CD2	1:s:397:TRP:HB2	2.53	0.42
1:q:501:GLY:O	1:q:507:ASN:HB2	2.20	0.42
1:s:72:TYR:OH	1:s:222:GLU:OE1	2.37	0.42
1:t:125:LYS:HG2	1:t:476:VAL:HB	2.01	0.42
1:u:125:LYS:HG2	1:u:476:VAL:HB	2.01	0.42
1:u:397:TRP:HB2	1:v:397:TRP:CD2	2.54	0.42
1:u:501:GLY:O	1:u:507:ASN:HB2	2.20	0.42
1:w:300:LEU:HG	1:w:344:LEU:HD23	2.00	0.42
1:w:320:ASN:ND2	1:w:324:THR:OG1	2.52	0.42
1:z:179:GLU:OE2	1:z:411:ARG:NH1	2.38	0.42
1:1:194:PRO:HB2	1:1:216:ILE:HG23	2.01	0.42
1:2:300:LEU:HG	1:2:344:LEU:HD23	2.00	0.42
1:2:501:GLY:O	1:2:507:ASN:HB2	2.20	0.42
1:3:126:MET:HB2	1:3:241:PHE:HE2	1.84	0.42
1:A:193:ILE:HD11	1:I:261:PRO:HG3	2.01	0.42
1:C:125:LYS:HG2	1:C:476:VAL:HB	2.01	0.42
1:D:193:ILE:HD11	1:P:261:PRO:HG3	2.01	0.42
1:E:300:LEU:HG	1:E:344:LEU:HD23	2.00	0.42
1:G:194:PRO:HB2	1:G:216:ILE:HG23	2.02	0.42
1:G:501:GLY:O	1:G:507:ASN:HB2	2.20	0.42
1:I:501:GLY:O	1:I:507:ASN:HB2	2.20	0.42
1:J:300:LEU:HG	1:J:344:LEU:HD23	2.00	0.42
1:K:320:ASN:ND2	1:K:324:THR:OG1	2.52	0.42
1:N:378:ARG:HD2	1:N:378:ARG:HA	1.73	0.42
1:O:194:PRO:HB2	1:O:216:ILE:HG23	2.02	0.42
1:O:300:LEU:HG	1:O:344:LEU:HD23	2.00	0.42
1:T:88:ARG:NH2	1:i:507:ASN:OD1	2.51	0.42
1:T:125:LYS:HG2	1:T:476:VAL:HB	2.01	0.42
1:T:252:TYR:CD1	1:T:253:ILE:HG23	2.54	0.42
1:U:507:ASN:OD1	1:e:88:ARG:NH2	2.51	0.42
1:W:85:LYS:HG3	1:W:332:GLY:HA3	2.01	0.42
1:W:126:MET:HB2	1:W:241:PHE:HE2	1.84	0.42
1:Y:194:PRO:HB2	1:Y:216:ILE:HG23	2.02	0.42
1:a:136:LYS:NZ	1:a:149:ASN:OD1	2.37	0.42
1:a:381:ALA:HB3	1:8:318:VAL:HG22	2.00	0.42
1:d:222:GLU:OE1	1:d:222:GLU:N	2.50	0.42
1:e:72:TYR:OH	1:e:222:GLU:OE1	2.37	0.42
1:f:300:LEU:HG	1:f:344:LEU:HD23	2.00	0.42
1:g:488:ARG:NH2	1:z:508:PRO:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:194:PRO:HB2	1:h:216:ILE:HG23	2.02	0.42
1:i:194:PRO:HB2	1:i:216:ILE:HG23	2.02	0.42
1:i:300:LEU:HG	1:i:344:LEU:HD23	2.00	0.42
1:l:194:PRO:HB2	1:l:216:ILE:HG23	2.02	0.42
1:l:300:LEU:HG	1:l:344:LEU:HD23	2.00	0.42
1:o:501:GLY:O	1:o:507:ASN:HB2	2.20	0.42
1:q:194:PRO:HB2	1:q:216:ILE:HG23	2.01	0.42
1:q:508:PRO:HB2	1:x:488:ARG:NH2	2.35	0.42
1:t:501:GLY:O	1:t:507:ASN:HB2	2.20	0.42
1:u:320:ASN:ND2	1:u:324:THR:OG1	2.52	0.42
1:u:488:ARG:NH2	1:1:508:PRO:HB2	2.35	0.42
1:y:125:LYS:HG2	1:y:476:VAL:HB	2.01	0.42
1:z:318:VAL:HG22	1:2:381:ALA:HB3	2.00	0.42
1:z:397:TRP:CD2	1:2:397:TRP:HB2	2.54	0.42
1:2:406:ARG:HB2	1:2:531:LYS:NZ	2.33	0.42
1:6:252:TYR:CD1	1:6:253:ILE:HG23	2.54	0.42
1:7:194:PRO:HB2	1:7:216:ILE:HG23	2.02	0.42
1:A:126:MET:HB2	1:A:241:PHE:HE2	1.84	0.42
1:A:318:VAL:HG22	1:I:381:ALA:HB3	2.01	0.42
1:F:354:GLN:HG3	1:Q:268:ALA:HB3	2.02	0.42
1:G:125:LYS:HG2	1:G:476:VAL:HB	2.01	0.42
1:L:134:GLN:HE22	1:b:153:ALA:HA	1.85	0.42
1:L:179:GLU:OE2	1:L:411:ARG:NH1	2.38	0.42
1:M:194:PRO:HB2	1:M:216:ILE:HG23	2.02	0.42
1:R:194:PRO:HB2	1:R:216:ILE:HG23	2.01	0.42
1:R:397:TRP:CD2	1:U:397:TRP:HB2	2.53	0.42
1:W:252:TYR:CD1	1:W:253:ILE:HG23	2.54	0.42
1:W:501:GLY:O	1:W:507:ASN:HB2	2.20	0.42
1:X:193:ILE:HD11	1:e:261:PRO:HG3	2.01	0.42
1:Z:126:MET:HB2	1:Z:241:PHE:HE2	1.84	0.42
1:a:126:MET:HB2	1:a:241:PHE:HE2	1.84	0.42
1:c:88:ARG:NH2	1:s:507:ASN:OD1	2.51	0.42
1:c:406:ARG:HB2	1:c:531:LYS:NZ	2.33	0.42
1:e:252:TYR:CD1	1:e:253:ILE:HG23	2.54	0.42
1:f:194:PRO:HB2	1:f:216:ILE:HG23	2.02	0.42
1:o:252:TYR:CD1	1:o:253:ILE:HG23	2.54	0.42
1:r:125:LYS:HG2	1:r:476:VAL:HB	2.01	0.42
1:t:194:PRO:HB2	1:t:216:ILE:HG23	2.02	0.42
1:t:508:PRO:HB2	1:5:488:ARG:NH2	2.35	0.42
1:u:381:ALA:HB3	1:v:318:VAL:HG22	2.01	0.42
1:z:381:ALA:HB3	1:1:318:VAL:HG22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:156:HIS:N	1:1:447:LYS:O	2.43	0.42
1:2:378:ARG:HD2	1:2:378:ARG:HA	1.73	0.42
1:3:320:ASN:ND2	1:3:324:THR:OG1	2.52	0.42
1:4:320:ASN:ND2	1:4:324:THR:OG1	2.52	0.42
1:6:85:LYS:HG3	1:6:332:GLY:HA3	2.01	0.42
1:6:501:GLY:O	1:6:507:ASN:HB2	2.20	0.42
1:8:126:MET:HB2	1:8:241:PHE:HE2	1.84	0.42
1:A:153:ALA:HA	1:B:134:GLN:HE22	1.84	0.42
1:A:501:GLY:O	1:A:507:ASN:HB2	2.20	0.42
1:B:180:LEU:HD11	1:B:518:TYR:CE2	2.55	0.42
1:B:194:PRO:HB2	1:B:216:ILE:HG23	2.02	0.42
1:D:488:ARG:NH2	1:M:508:PRO:HB2	2.35	0.42
1:E:85:LYS:HG3	1:E:332:GLY:HA3	2.00	0.42
1:E:194:PRO:HB2	1:E:216:ILE:HG23	2.02	0.42
1:E:501:GLY:O	1:E:507:ASN:HB2	2.20	0.42
1:F:501:GLY:O	1:F:507:ASN:HB2	2.20	0.42
1:G:508:PRO:HB2	1:H:488:ARG:NH2	2.35	0.42
1:K:501:GLY:O	1:K:507:ASN:HB2	2.20	0.42
1:N:261:PRO:HG3	1:P:193:ILE:HD11	2.01	0.42
1:P:501:GLY:O	1:P:507:ASN:HB2	2.20	0.42
1:R:252:TYR:CD1	1:R:253:ILE:HG23	2.54	0.42
1:S:261:PRO:HG3	1:U:193:ILE:HD11	2.02	0.42
1:T:134:GLN:HE22	1:U:153:ALA:HA	1.85	0.42
1:T:501:GLY:O	1:T:507:ASN:HB2	2.20	0.42
1:W:261:PRO:HG3	1:Y:193:ILE:HD11	2.01	0.42
1:W:406:ARG:HB2	1:W:531:LYS:NZ	2.33	0.42
1:Y:180:LEU:HD11	1:Y:518:TYR:CE2	2.55	0.42
1:a:252:TYR:CD1	1:a:253:ILE:HG23	2.54	0.42
1:a:320:ASN:ND2	1:a:324:THR:OG1	2.52	0.42
1:b:399:PHE:CG	1:b:400:PRO:HD2	2.55	0.42
1:c:252:TYR:CD1	1:c:253:ILE:HG23	2.54	0.42
1:c:261:PRO:HG3	1:o:193:ILE:HD11	2.01	0.42
1:e:85:LYS:HG3	1:e:332:GLY:HA3	2.01	0.42
1:f:252:TYR:CD1	1:f:253:ILE:HG23	2.54	0.42
1:f:381:ALA:HB3	1:h:318:VAL:HG22	2.00	0.42
1:g:125:LYS:HG2	1:g:476:VAL:HB	2.01	0.42
1:h:508:PRO:HB2	1:k:488:ARG:NH2	2.35	0.42
1:j:501:GLY:O	1:j:507:ASN:HB2	2.20	0.42
1:k:501:GLY:O	1:k:507:ASN:HB2	2.20	0.42
1:l:136:LYS:NZ	1:l:149:ASN:OD1	2.37	0.42
1:l:320:ASN:ND2	1:l:324:THR:OG1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:399:PHE:CG	1:m:400:PRO:HD2	2.55	0.42
1:m:501:GLY:O	1:m:507:ASN:HB2	2.20	0.42
1:n:501:GLY:O	1:n:507:ASN:HB2	2.20	0.42
1:q:252:TYR:CD1	1:q:253:ILE:HG23	2.54	0.42
1:r:261:PRO:HG3	1:s:193:ILE:HD11	2.02	0.42
1:r:300:LEU:HG	1:r:344:LEU:HD23	2.00	0.42
1:u:126:MET:HB2	1:u:241:PHE:HE2	1.84	0.42
1:u:222:GLU:OE1	1:u:222:GLU:N	2.50	0.42
1:u:268:ALA:HB3	1:v:354:GLN:HG3	2.02	0.42
1:v:501:GLY:O	1:v:507:ASN:HB2	2.20	0.42
1:w:193:ILE:HD11	1:y:261:PRO:HG3	2.01	0.42
1:x:268:ALA:HB3	1:y:354:GLN:HG3	2.02	0.42
1:y:501:GLY:O	1:y:507:ASN:HB2	2.20	0.42
1:1:180:LEU:HD11	1:1:518:TYR:CE2	2.55	0.42
1:2:508:PRO:HB2	1:4:488:ARG:NH2	2.35	0.42
1:6:126:MET:HB2	1:6:241:PHE:HE2	1.84	0.42
1:6:261:PRO:HG3	1:7:193:ILE:HD11	2.01	0.42
1:7:180:LEU:HD11	1:7:518:TYR:CE2	2.55	0.42
1:A:85:LYS:HG3	1:A:332:GLY:HA3	2.01	0.42
1:A:507:ASN:OD1	1:E:88:ARG:NH2	2.51	0.42
1:B:126:MET:HB2	1:B:241:PHE:HE2	1.84	0.42
1:C:488:ARG:NH2	1:L:508:PRO:HB2	2.35	0.42
1:D:501:GLY:O	1:D:507:ASN:HB2	2.20	0.42
1:E:399:PHE:CG	1:E:400:PRO:HD2	2.55	0.42
1:F:399:PHE:CG	1:F:400:PRO:HD2	2.55	0.42
1:G:378:ARG:HD2	1:G:378:ARG:HA	1.73	0.42
1:H:88:ARG:NH2	1:Z:507:ASN:OD1	2.51	0.42
1:H:501:GLY:O	1:H:507:ASN:HB2	2.20	0.42
1:I:40:THR:HG1	1:I:132:ASN:H	1.68	0.42
1:J:29:GLY:N	1:a:234:SER:O	2.31	0.42
1:J:85:LYS:HG3	1:J:332:GLY:HA3	2.00	0.42
1:J:399:PHE:CG	1:J:400:PRO:HD2	2.55	0.42
1:J:406:ARG:HB2	1:J:531:LYS:NZ	2.33	0.42
1:K:180:LEU:HD11	1:K:518:TYR:CE2	2.55	0.42
1:M:318:VAL:HG22	1:b:381:ALA:HB3	2.00	0.42
1:M:320:ASN:ND2	1:M:324:THR:OG1	2.52	0.42
1:R:180:LEU:HD11	1:R:518:TYR:CE2	2.55	0.42
1:S:125:LYS:HG2	1:S:476:VAL:HB	2.01	0.42
1:S:134:GLN:HE22	1:d:153:ALA:HA	1.85	0.42
1:S:300:LEU:HG	1:S:344:LEU:HD23	2.00	0.42
1:T:399:PHE:CG	1:T:400:PRO:HD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:180:LEU:HD11	1:V:518:TYR:CE2	2.55	0.42
1:W:488:ARG:NH2	1:X:508:PRO:HB2	2.35	0.42
1:X:180:LEU:HD11	1:X:518:TYR:CE2	2.55	0.42
1:X:252:TYR:CD1	1:X:253:ILE:HG23	2.54	0.42
1:Y:29:GLY:N	1:4:234:SER:O	2.32	0.42
1:Y:125:LYS:HG2	1:Y:476:VAL:HB	2.01	0.42
1:Z:399:PHE:CG	1:Z:400:PRO:HD2	2.55	0.42
1:b:194:PRO:HB2	1:b:216:ILE:HG23	2.02	0.42
1:b:252:TYR:CD1	1:b:253:ILE:HG23	2.54	0.42
1:b:488:ARG:NH2	1:c:508:PRO:HB2	2.35	0.42
1:c:85:LYS:HG3	1:c:332:GLY:HA3	2.01	0.42
1:d:488:ARG:NH2	1:n:508:PRO:HB2	2.35	0.42
1:d:501:GLY:O	1:d:507:ASN:HB2	2.20	0.42
1:d:508:PRO:HB2	1:n:488:ARG:NH2	2.35	0.42
1:e:406:ARG:HB2	1:e:531:LYS:NZ	2.33	0.42
1:f:399:PHE:CG	1:f:400:PRO:HD2	2.55	0.42
1:g:501:GLY:O	1:g:507:ASN:HB2	2.20	0.42
1:i:261:PRO:HG3	1:j:193:ILE:HD11	2.01	0.42
1:m:134:GLN:HE22	1:s:153:ALA:HA	1.85	0.42
1:m:488:ARG:NH2	1:r:508:PRO:HB2	2.35	0.42
1:n:153:ALA:HA	1:r:134:GLN:HE22	1.85	0.42
1:o:180:LEU:HD11	1:o:518:TYR:CE2	2.55	0.42
1:o:194:PRO:HB2	1:o:216:ILE:HG23	2.01	0.42
1:o:508:PRO:HB2	1:6:488:ARG:NH2	2.35	0.42
1:p:180:LEU:HD11	1:p:518:TYR:CE2	2.55	0.42
1:q:180:LEU:HD11	1:q:518:TYR:CE2	2.55	0.42
1:r:399:PHE:CG	1:r:400:PRO:HD2	2.55	0.42
1:u:261:PRO:HG3	1:v:193:ILE:HD11	2.01	0.42
1:v:85:LYS:HG3	1:v:332:GLY:HA3	2.01	0.42
1:v:126:MET:HB2	1:v:241:PHE:HE2	1.84	0.42
1:w:85:LYS:HG3	1:w:332:GLY:HA3	2.00	0.42
1:w:194:PRO:HB2	1:w:216:ILE:HG23	2.02	0.42
1:w:399:PHE:CG	1:w:400:PRO:HD2	2.55	0.42
1:w:501:GLY:O	1:w:507:ASN:HB2	2.20	0.42
1:y:156:HIS:N	1:y:447:LYS:O	2.43	0.42
1:y:399:PHE:CG	1:y:400:PRO:HD2	2.55	0.42
1:z:261:PRO:HG3	1:1:193:ILE:HD11	2.02	0.42
1:1:126:MET:HB2	1:1:241:PHE:HE2	1.84	0.42
1:1:261:PRO:HG3	1:2:193:ILE:HD11	2.01	0.42
1:2:85:LYS:HG3	1:2:332:GLY:HA3	2.01	0.42
1:2:399:PHE:CG	1:2:400:PRO:HD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:252:TYR:CD1	1:3:253:ILE:HG23	2.54	0.42
1:3:501:GLY:O	1:3:507:ASN:HB2	2.20	0.42
1:4:252:TYR:CD1	1:4:253:ILE:HG23	2.54	0.42
1:4:501:GLY:O	1:4:507:ASN:HB2	2.20	0.42
1:5:88:ARG:NH2	1:8:507:ASN:OD1	2.51	0.42
1:5:501:GLY:O	1:5:507:ASN:HB2	2.20	0.42
1:6:406:ARG:HB2	1:6:531:LYS:NZ	2.33	0.42
1:7:51:ASP:OD1	1:7:481:ARG:NE	2.38	0.42
1:7:85:LYS:HG3	1:7:332:GLY:HA3	2.01	0.42
1:8:85:LYS:HG3	1:8:332:GLY:HA3	2.00	0.42
1:8:399:PHE:CG	1:8:400:PRO:HD2	2.55	0.42
1:A:180:LEU:HD11	1:A:518:TYR:CE2	2.55	0.42
1:A:222:GLU:OE1	1:A:222:GLU:N	2.50	0.42
1:C:153:ALA:HA	1:D:134:GLN:HE22	1.85	0.42
1:C:501:GLY:O	1:C:507:ASN:HB2	2.20	0.42
1:D:354:GLN:HG3	1:P:268:ALA:HB3	2.02	0.42
1:E:193:ILE:HD11	1:F:261:PRO:HG3	2.01	0.42
1:F:126:MET:HB2	1:F:241:PHE:HE2	1.84	0.42
1:F:180:LEU:HD11	1:F:518:TYR:CE2	2.55	0.42
1:H:193:ILE:HD11	1:Y:261:PRO:HG3	2.01	0.42
1:N:399:PHE:CG	1:N:400:PRO:HD2	2.55	0.42
1:N:501:GLY:O	1:N:507:ASN:HB2	2.20	0.42
1:O:180:LEU:HD11	1:O:518:TYR:CE2	2.55	0.42
1:O:320:ASN:ND2	1:O:324:THR:OG1	2.52	0.42
1:P:222:GLU:OE1	1:P:222:GLU:N	2.50	0.42
1:S:399:PHE:CG	1:S:400:PRO:HD2	2.55	0.42
1:S:406:ARG:HB2	1:S:531:LYS:NZ	2.33	0.42
1:S:508:PRO:HB2	1:T:488:ARG:NH2	2.35	0.42
1:V:320:ASN:ND2	1:V:324:THR:OG1	2.52	0.42
1:X:194:PRO:HB2	1:X:216:ILE:HG23	2.02	0.42
1:Y:51:ASP:OD1	1:Y:481:ARG:NE	2.38	0.42
1:Z:85:LYS:HG3	1:Z:332:GLY:HA3	2.00	0.42
1:a:399:PHE:CG	1:a:400:PRO:HD2	2.55	0.42
1:b:508:PRO:HB2	1:c:488:ARG:NH2	2.35	0.42
1:c:320:ASN:ND2	1:c:324:THR:OG1	2.52	0.42
1:d:125:LYS:HG2	1:d:476:VAL:HB	2.01	0.42
1:e:488:ARG:NH2	1:f:508:PRO:HB2	2.35	0.42
1:e:508:PRO:HB2	1:f:488:ARG:NH2	2.35	0.42
1:f:180:LEU:HD11	1:f:518:TYR:CE2	2.55	0.42
1:g:153:ALA:HA	1:k:134:GLN:HE22	1.85	0.42
1:h:320:ASN:ND2	1:h:324:THR:OG1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:399:PHE:CG	1:i:400:PRO:HD2	2.55	0.42
1:i:501:GLY:O	1:i:507:ASN:HB2	2.20	0.42
1:m:397:TRP:HB2	1:n:397:TRP:CD2	2.54	0.42
1:p:320:ASN:ND2	1:p:324:THR:OG1	2.52	0.42
1:q:320:ASN:ND2	1:q:324:THR:OG1	2.52	0.42
1:u:40:THR:HG1	1:u:132:ASN:H	1.68	0.42
1:y:126:MET:HB2	1:y:241:PHE:HE2	1.84	0.42
1:y:180:LEU:HD11	1:y:518:TYR:CE2	2.55	0.42
1:y:320:ASN:ND2	1:y:324:THR:OG1	2.52	0.42
1:y:378:ARG:HA	1:y:378:ARG:HD2	1.73	0.42
1:z:193:ILE:HD11	1:2:261:PRO:HG3	2.01	0.42
1:3:507:ASN:OD1	1:8:88:ARG:NH2	2.51	0.42
1:4:180:LEU:HD11	1:4:518:TYR:CE2	2.55	0.42
1:7:125:LYS:HG2	1:7:476:VAL:HB	2.01	0.42
1:A:300:LEU:HG	1:A:344:LEU:HD23	2.00	0.42
1:C:193:ILE:HD11	1:M:261:PRO:HG3	2.02	0.42
1:D:381:ALA:HB3	1:N:318:VAL:HG22	2.00	0.42
1:F:320:ASN:ND2	1:F:324:THR:OG1	2.52	0.42
1:G:507:ASN:OD1	1:W:88:ARG:NH2	2.51	0.42
1:H:180:LEU:HD11	1:H:518:TYR:CE2	2.55	0.42
1:I:126:MET:HB2	1:I:241:PHE:HE2	1.84	0.42
1:J:508:PRO:HB2	1:K:488:ARG:NH2	2.35	0.42
1:K:252:TYR:CD1	1:K:253:ILE:HG23	2.54	0.42
1:L:378:ARG:HD2	1:L:378:ARG:HA	1.73	0.42
1:L:507:ASN:OD1	1:b:88:ARG:NH2	2.51	0.42
1:M:193:ILE:HD11	1:b:261:PRO:HG3	2.01	0.42
1:M:501:GLY:O	1:M:507:ASN:HB2	2.20	0.42
1:N:125:LYS:HG2	1:N:476:VAL:HB	2.01	0.42
1:O:399:PHE:CG	1:O:400:PRO:HD2	2.55	0.42
1:R:320:ASN:ND2	1:R:324:THR:OG1	2.52	0.42
1:S:488:ARG:NH2	1:T:508:PRO:HB2	2.35	0.42
1:T:194:PRO:HB2	1:T:216:ILE:HG23	2.02	0.42
1:U:222:GLU:OE1	1:U:222:GLU:N	2.50	0.42
1:V:252:TYR:CD1	1:V:253:ILE:HG23	2.54	0.42
1:W:180:LEU:HD11	1:W:518:TYR:CE2	2.55	0.42
1:Z:88:ARG:NH2	1:a:507:ASN:OD1	2.51	0.42
1:a:488:ARG:NH2	1:3:508:PRO:HB2	2.35	0.42
1:a:501:GLY:O	1:a:507:ASN:HB2	2.20	0.42
1:c:51:ASP:OD1	1:c:481:ARG:NE	2.38	0.42
1:e:320:ASN:ND2	1:e:324:THR:OG1	2.52	0.42
1:f:88:ARG:NH2	1:z:507:ASN:OD1	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:180:LEU:HD11	1:g:518:TYR:CE2	2.55	0.42
1:g:193:ILE:HD11	1:h:261:PRO:HG3	2.02	0.42
1:g:222:GLU:OE1	1:g:222:GLU:N	2.50	0.42
1:i:508:PRO:HB2	1:l:488:ARG:NH2	2.35	0.42
1:j:268:ALA:HB3	1:k:354:GLN:HG3	2.02	0.42
1:l:180:LEU:HD11	1:l:518:TYR:CE2	2.55	0.42
1:l:399:PHE:CG	1:l:400:PRO:HD2	2.55	0.42
1:n:180:LEU:HD11	1:n:518:TYR:CE2	2.55	0.42
1:s:406:ARG:HB2	1:s:531:LYS:NZ	2.33	0.42
1:v:180:LEU:HD11	1:v:518:TYR:CE2	2.55	0.42
1:z:194:PRO:HB2	1:z:216:ILE:HG23	2.01	0.42
1:1:399:PHE:CG	1:1:400:PRO:HD2	2.55	0.42
1:1:406:ARG:HB2	1:1:531:LYS:NZ	2.33	0.42
1:2:134:GLN:HE22	1:3:153:ALA:HA	1.85	0.42
1:3:399:PHE:CG	1:3:400:PRO:HD2	2.55	0.42
1:5:180:LEU:HD11	1:5:518:TYR:CE2	2.55	0.42
1:6:180:LEU:HD11	1:6:518:TYR:CE2	2.55	0.42
1:7:488:ARG:NH2	1:8:508:PRO:HB2	2.35	0.42
1:B:354:GLN:HG3	1:L:268:ALA:HB3	2.02	0.41
1:B:399:PHE:CG	1:B:400:PRO:HD2	2.55	0.41
1:B:488:ARG:NH2	1:I:508:PRO:HB2	2.35	0.41
1:C:180:LEU:HD11	1:C:518:TYR:CE2	2.55	0.41
1:F:156:HIS:N	1:F:447:LYS:O	2.43	0.41
1:G:381:ALA:HB3	1:I:318:VAL:HG22	2.00	0.41
1:H:268:ALA:HB3	1:W:354:GLN:HG3	2.02	0.41
1:J:136:LYS:NZ	1:J:149:ASN:OD1	2.37	0.41
1:J:194:PRO:HB2	1:J:216:ILE:HG23	2.02	0.41
1:L:194:PRO:HB2	1:L:216:ILE:HG23	2.02	0.41
1:L:399:PHE:CG	1:L:400:PRO:HD2	2.55	0.41
1:M:88:ARG:NH2	1:c:507:ASN:OD1	2.51	0.41
1:M:153:ALA:HA	1:c:134:GLN:HE22	1.85	0.41
1:M:399:PHE:CG	1:M:400:PRO:HD2	2.55	0.41
1:N:508:PRO:HB2	1:O:488:ARG:NH2	2.35	0.41
1:O:318:VAL:HG22	1:n:381:ALA:HB3	2.00	0.41
1:P:507:ASN:OD1	1:Q:88:ARG:NH2	2.51	0.41
1:Q:194:PRO:HB2	1:Q:216:ILE:HG23	2.02	0.41
1:T:126:MET:HB2	1:T:241:PHE:HE2	1.84	0.41
1:T:397:TRP:HB2	1:d:397:TRP:CD2	2.54	0.41
1:U:180:LEU:HD11	1:U:518:TYR:CE2	2.55	0.41
1:Y:488:ARG:NH2	1:Z:508:PRO:HB2	2.35	0.41
1:Y:501:GLY:O	1:Y:507:ASN:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:508:PRO:HB2	1:3:488:ARG:NH2	2.35	0.41
1:b:180:LEU:HD11	1:b:518:TYR:CE2	2.55	0.41
1:d:180:LEU:HD11	1:d:518:TYR:CE2	2.55	0.41
1:e:51:ASP:OD1	1:e:481:ARG:NE	2.38	0.41
1:e:507:ASN:OD1	1:h:88:ARG:NH2	2.51	0.41
1:f:501:GLY:O	1:f:507:ASN:HB2	2.20	0.41
1:g:406:ARG:HB2	1:g:531:LYS:NZ	2.33	0.41
1:h:399:PHE:CG	1:h:400:PRO:HD2	2.55	0.41
1:h:501:GLY:O	1:h:507:ASN:HB2	2.20	0.41
1:i:125:LYS:HG2	1:i:476:VAL:HB	2.01	0.41
1:i:378:ARG:HD2	1:i:378:ARG:HA	1.73	0.41
1:n:125:LYS:HG2	1:n:476:VAL:HB	2.01	0.41
1:r:378:ARG:HA	1:r:378:ARG:HD2	1.73	0.41
1:t:507:ASN:OD1	1:6:88:ARG:NH2	2.51	0.41
1:u:180:LEU:HD11	1:u:518:TYR:CE2	2.55	0.41
1:v:153:ALA:HA	1:1:134:GLN:HE22	1.85	0.41
1:v:300:LEU:HG	1:v:344:LEU:HD23	2.00	0.41
1:v:507:ASN:OD1	1:w:88:ARG:NH2	2.51	0.41
1:z:320:ASN:ND2	1:z:324:THR:OG1	2.52	0.41
1:2:180:LEU:HD11	1:2:518:TYR:CE2	2.55	0.41
1:2:194:PRO:HB2	1:2:216:ILE:HG23	2.01	0.41
1:2:222:GLU:OE1	1:2:222:GLU:N	2.50	0.41
1:4:156:HIS:N	1:4:447:LYS:O	2.43	0.41
1:5:193:ILE:HD11	1:7:261:PRO:HG3	2.01	0.41
1:5:268:ALA:HB3	1:6:354:GLN:HG3	2.02	0.41
1:7:508:PRO:HB2	1:8:488:ARG:NH2	2.35	0.41
1:8:501:GLY:O	1:8:507:ASN:HB2	2.20	0.41
1:A:194:PRO:HB2	1:A:216:ILE:HG23	2.02	0.41
1:C:406:ARG:HB2	1:C:531:LYS:NZ	2.33	0.41
1:E:508:PRO:HB2	1:P:488:ARG:NH2	2.35	0.41
1:H:153:ALA:HA	1:Z:134:GLN:HE22	1.85	0.41
1:I:320:ASN:ND2	1:I:324:THR:OG1	2.52	0.41
1:J:180:LEU:HD11	1:J:518:TYR:CE2	2.55	0.41
1:J:222:GLU:OE1	1:J:222:GLU:N	2.50	0.41
1:J:378:ARG:HD2	1:J:378:ARG:HA	1.73	0.41
1:N:134:GLN:HE22	1:m:153:ALA:HA	1.85	0.41
1:N:488:ARG:NH2	1:O:508:PRO:HB2	2.35	0.41
1:O:134:GLN:HE22	1:P:153:ALA:HA	1.85	0.41
1:O:153:ALA:HA	1:d:134:GLN:HE22	1.85	0.41
1:P:134:GLN:HE22	1:Q:153:ALA:HA	1.85	0.41
1:T:222:GLU:OE1	1:T:222:GLU:N	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:406:ARG:HB2	1:U:531:LYS:NZ	2.33	0.41
1:V:300:LEU:HG	1:V:344:LEU:HD23	2.00	0.41
1:V:399:PHE:CG	1:V:400:PRO:HD2	2.55	0.41
1:W:399:PHE:CG	1:W:400:PRO:HD2	2.55	0.41
1:X:153:ALA:HA	1:f:134:GLN:HE22	1.85	0.41
1:Y:508:PRO:HB2	1:Z:488:ARG:NH2	2.35	0.41
1:Z:194:PRO:HB2	1:Z:216:ILE:HG23	2.02	0.41
1:Z:501:GLY:O	1:Z:507:ASN:HB2	2.20	0.41
1:b:134:GLN:HE22	1:o:153:ALA:HA	1.85	0.41
1:b:501:GLY:O	1:b:507:ASN:HB2	2.20	0.41
1:e:134:GLN:HE22	1:h:153:ALA:HA	1.85	0.41
1:e:501:GLY:O	1:e:507:ASN:HB2	2.20	0.41
1:f:261:PRO:HG3	1:h:193:ILE:HD11	2.01	0.41
1:i:318:VAL:HG22	1:k:381:ALA:HB3	2.00	0.41
1:i:488:ARG:NH2	1:l:508:PRO:HB2	2.35	0.41
1:j:134:GLN:HE22	1:x:153:ALA:HA	1.85	0.41
1:j:153:ALA:HA	1:l:134:GLN:HE22	1.85	0.41
1:j:180:LEU:HD11	1:j:518:TYR:CE2	2.55	0.41
1:j:222:GLU:OE1	1:j:222:GLU:N	2.50	0.41
1:j:488:ARG:NH2	1:w:508:PRO:HB2	2.35	0.41
1:l:153:ALA:HA	1:n:134:GLN:HE22	1.85	0.41
1:l:501:GLY:O	1:l:507:ASN:HB2	2.20	0.41
1:m:194:PRO:HB2	1:m:216:ILE:HG23	2.02	0.41
1:m:508:PRO:HB2	1:r:488:ARG:NH2	2.35	0.41
1:p:153:ALA:HA	1:6:134:GLN:HE22	1.85	0.41
1:p:252:TYR:CD1	1:p:253:ILE:HG23	2.54	0.41
1:p:399:PHE:CG	1:p:400:PRO:HD2	2.55	0.41
1:s:222:GLU:OE1	1:s:222:GLU:N	2.50	0.41
1:s:501:GLY:O	1:s:507:ASN:HB2	2.20	0.41
1:u:508:PRO:HB2	1:1:488:ARG:NH2	2.35	0.41
1:v:194:PRO:HB2	1:v:216:ILE:HG23	2.02	0.41
1:v:222:GLU:OE1	1:v:222:GLU:N	2.50	0.41
1:x:194:PRO:HB2	1:x:216:ILE:HG23	2.02	0.41
1:z:180:LEU:HD11	1:z:518:TYR:CE2	2.55	0.41
1:8:156:HIS:N	1:8:447:LYS:O	2.43	0.41
1:8:194:PRO:HB2	1:8:216:ILE:HG23	2.02	0.41
1:B:156:HIS:N	1:B:447:LYS:O	2.43	0.41
1:C:85:LYS:HG3	1:C:332:GLY:HA3	2.01	0.41
1:C:222:GLU:OE1	1:C:222:GLU:N	2.50	0.41
1:C:508:PRO:HB2	1:L:488:ARG:NH2	2.35	0.41
1:D:156:HIS:N	1:D:447:LYS:O	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:180:LEU:HD11	1:I:518:TYR:CE2	2.55	0.41
1:I:399:PHE:CG	1:I:400:PRO:HD2	2.55	0.41
1:I:507:ASN:OD1	1:J:88:ARG:NH2	2.50	0.41
1:J:125:LYS:HG2	1:J:476:VAL:HB	2.01	0.41
1:L:180:LEU:HD11	1:L:518:TYR:CE2	2.55	0.41
1:N:85:LYS:HG3	1:N:332:GLY:HA3	2.01	0.41
1:O:268:ALA:HB3	1:m:354:GLN:HG3	2.02	0.41
1:O:354:GLN:HG3	1:n:268:ALA:HB3	2.03	0.41
1:O:370:SER:HA	1:O:524:TRP:CD1	2.56	0.41
1:O:501:GLY:O	1:O:507:ASN:HB2	2.20	0.41
1:P:180:LEU:HD11	1:P:518:TYR:CE2	2.55	0.41
1:Q:507:ASN:OD1	1:S:88:ARG:NH2	2.51	0.41
1:R:268:ALA:HB3	1:S:354:GLN:HG3	2.02	0.41
1:R:399:PHE:CG	1:R:400:PRO:HD2	2.55	0.41
1:S:501:GLY:O	1:S:507:ASN:HB2	2.20	0.41
1:T:153:ALA:HA	1:i:134:GLN:HE22	1.85	0.41
1:T:354:GLN:HG3	1:l:268:ALA:HB3	2.03	0.41
1:U:399:PHE:CG	1:U:400:PRO:HD2	2.55	0.41
1:V:153:ALA:HA	1:W:134:GLN:HE22	1.85	0.41
1:V:501:GLY:O	1:V:507:ASN:HB2	2.20	0.41
1:W:125:LYS:HG2	1:W:476:VAL:HB	2.01	0.41
1:W:194:PRO:HB2	1:W:216:ILE:HG23	2.02	0.41
1:Z:180:LEU:HD11	1:Z:518:TYR:CE2	2.55	0.41
1:c:501:GLY:O	1:c:507:ASN:HB2	2.20	0.41
1:d:268:ALA:HB3	1:l:354:GLN:HG3	2.03	0.41
1:d:381:ALA:HB3	1:l:318:VAL:HG22	2.00	0.41
1:f:40:THR:HG1	1:f:132:ASN:H	1.68	0.41
1:f:234:SER:O	1:z:29:GLY:N	2.33	0.41
1:h:134:GLN:HE22	1:i:153:ALA:HA	1.85	0.41
1:j:507:ASN:OD1	1:x:88:ARG:NH2	2.51	0.41
1:l:370:SER:HA	1:l:524:TRP:CD1	2.56	0.41
1:m:126:MET:HB2	1:m:241:PHE:HE2	1.84	0.41
1:m:222:GLU:OE1	1:m:222:GLU:N	2.50	0.41
1:o:488:ARG:NH2	1:6:508:PRO:HB2	2.35	0.41
1:p:300:LEU:HG	1:p:344:LEU:HD23	2.00	0.41
1:p:501:GLY:O	1:p:507:ASN:HB2	2.20	0.41
1:q:268:ALA:HB3	1:r:354:GLN:HG3	2.02	0.41
1:q:488:ARG:NH2	1:x:508:PRO:HB2	2.35	0.41
1:s:180:LEU:HD11	1:s:518:TYR:CE2	2.55	0.41
1:s:399:PHE:CG	1:s:400:PRO:HD2	2.55	0.41
1:t:381:ALA:HB3	1:u:318:VAL:HG22	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:252:TYR:CD1	1:x:253:ILE:HG23	2.54	0.41
1:z:399:PHE:CG	1:z:400:PRO:HD2	2.55	0.41
1:1:501:GLY:O	1:1:507:ASN:HB2	2.20	0.41
1:3:318:VAL:HG22	1:4:381:ALA:HB3	2.01	0.41
1:5:153:ALA:HA	1:8:134:GLN:HE22	1.85	0.41
1:6:125:LYS:HG2	1:6:476:VAL:HB	2.01	0.41
1:6:194:PRO:HB2	1:6:216:ILE:HG23	2.02	0.41
1:6:399:PHE:CG	1:6:400:PRO:HD2	2.55	0.41
1:7:399:PHE:CG	1:7:400:PRO:HD2	2.55	0.41
1:7:501:GLY:O	1:7:507:ASN:HB2	2.20	0.41
1:C:399:PHE:CG	1:C:400:PRO:HD2	2.55	0.41
1:I:136:LYS:NZ	1:I:149:ASN:OD1	2.37	0.41
1:J:507:ASN:OD1	1:a:88:ARG:NH2	2.52	0.41
1:K:156:HIS:N	1:K:447:LYS:O	2.43	0.41
1:K:381:ALA:HB3	1:a:318:VAL:HG22	2.00	0.41
1:L:501:GLY:O	1:L:507:ASN:HB2	2.20	0.41
1:M:180:LEU:HD11	1:M:518:TYR:CE2	2.55	0.41
1:U:501:GLY:O	1:U:507:ASN:HB2	2.20	0.41
1:Y:370:SER:HA	1:Y:524:TRP:CD1	2.56	0.41
1:b:156:HIS:N	1:b:447:LYS:O	2.43	0.41
1:g:85:LYS:HG3	1:g:332:GLY:HA3	2.01	0.41
1:g:399:PHE:CG	1:g:400:PRO:HD2	2.55	0.41
1:h:180:LEU:HD11	1:h:518:TYR:CE2	2.55	0.41
1:i:180:LEU:HD11	1:i:518:TYR:CE2	2.55	0.41
1:p:406:ARG:HB2	1:p:531:LYS:NZ	2.33	0.41
1:q:126:MET:HB2	1:q:241:PHE:HE2	1.84	0.41
1:r:88:ARG:NH2	1:x:507:ASN:OD1	2.51	0.41
1:r:501:GLY:O	1:r:507:ASN:HB2	2.20	0.41
1:u:136:LYS:NZ	1:u:149:ASN:OD1	2.37	0.41
1:u:399:PHE:CG	1:u:400:PRO:HD2	2.55	0.41
1:y:40:THR:HG1	1:y:132:ASN:H	1.68	0.41
1:z:378:ARG:HD2	1:z:378:ARG:HA	1.73	0.41
1:5:194:PRO:HB2	1:5:216:ILE:HG23	2.01	0.41
1:5:399:PHE:CG	1:5:400:PRO:HD2	2.55	0.41
1:7:370:SER:HA	1:7:524:TRP:CD1	2.56	0.41
1:8:180:LEU:HD11	1:8:518:TYR:CE2	2.55	0.41
1:B:501:GLY:O	1:B:507:ASN:HB2	2.20	0.41
1:E:488:ARG:NH2	1:P:508:PRO:HB2	2.35	0.41
1:F:194:PRO:HB2	1:F:216:ILE:HG23	2.02	0.41
1:F:370:SER:HA	1:F:524:TRP:CD1	2.56	0.41
1:H:399:PHE:CG	1:H:400:PRO:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:370:SER:HA	1:J:524:TRP:CD1	2.56	0.41
1:M:134:GLN:HE22	1:N:153:ALA:HA	1.85	0.41
1:N:180:LEU:HD11	1:N:518:TYR:CE2	2.55	0.41
1:Q:180:LEU:HD11	1:Q:518:TYR:CE2	2.55	0.41
1:Q:252:TYR:CD1	1:Q:253:ILE:HG23	2.54	0.41
1:Q:508:PRO:HB2	1:R:488:ARG:NH2	2.35	0.41
1:V:406:ARG:HB2	1:V:531:LYS:NZ	2.33	0.41
1:W:508:PRO:HB2	1:X:488:ARG:NH2	2.35	0.41
1:X:399:PHE:CG	1:X:400:PRO:HD2	2.55	0.41
1:Y:399:PHE:CG	1:Y:400:PRO:HD2	2.55	0.41
1:c:399:PHE:CG	1:c:400:PRO:HD2	2.55	0.41
1:i:72:TYR:OH	1:i:222:GLU:OE1	2.37	0.41
1:j:508:PRO:HB2	1:w:488:ARG:NH2	2.35	0.41
1:n:156:HIS:N	1:n:447:LYS:O	2.43	0.41
1:q:399:PHE:CG	1:q:400:PRO:HD2	2.55	0.41
1:r:268:ALA:HB3	1:s:354:GLN:HG3	2.03	0.41
1:t:399:PHE:CG	1:t:400:PRO:HD2	2.55	0.41
1:v:399:PHE:CG	1:v:400:PRO:HD2	2.55	0.41
1:x:180:LEU:HD11	1:x:518:TYR:CE2	2.55	0.41
1:x:399:PHE:CG	1:x:400:PRO:HD2	2.55	0.41
1:y:370:SER:HA	1:y:524:TRP:CD1	2.56	0.41
1:z:501:GLY:O	1:z:507:ASN:HB2	2.20	0.41
1:A:399:PHE:CG	1:A:400:PRO:HD2	2.55	0.41
1:B:318:VAL:HG22	1:L:381:ALA:HB3	2.00	0.41
1:C:40:THR:OG1	1:C:131:TYR:HB2	2.21	0.41
1:D:261:PRO:O	1:D:286:PRO:HB2	2.21	0.41
1:E:261:PRO:O	1:E:286:PRO:HB2	2.21	0.41
1:G:399:PHE:CG	1:G:400:PRO:HD2	2.55	0.41
1:H:194:PRO:HB2	1:H:216:ILE:HG23	2.01	0.41
1:H:261:PRO:HG3	1:W:193:ILE:HD11	2.01	0.41
1:K:399:PHE:CG	1:K:400:PRO:HD2	2.55	0.41
1:Q:261:PRO:O	1:Q:286:PRO:HB2	2.21	0.41
1:Q:399:PHE:CG	1:Q:400:PRO:HD2	2.55	0.41
1:R:126:MET:HB2	1:R:241:PHE:HE2	1.84	0.41
1:S:268:ALA:HB3	1:U:354:GLN:HG3	2.03	0.41
1:Z:268:ALA:HB3	1:4:354:GLN:HG3	2.02	0.41
1:Z:370:SER:HA	1:Z:524:TRP:CD1	2.56	0.41
1:b:261:PRO:O	1:b:286:PRO:HB2	2.21	0.41
1:d:261:PRO:O	1:d:286:PRO:HB2	2.21	0.41
1:d:370:SER:HA	1:d:524:TRP:CD1	2.56	0.41
1:e:180:LEU:HD11	1:e:518:TYR:CE2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:399:PHE:CG	1:e:400:PRO:HD2	2.55	0.41
1:i:85:LYS:HG3	1:i:332:GLY:HA3	2.01	0.41
1:j:194:PRO:HB2	1:j:216:ILE:HG23	2.01	0.41
1:n:261:PRO:O	1:n:286:PRO:HB2	2.21	0.41
1:n:370:SER:HA	1:n:524:TRP:CD1	2.56	0.41
1:o:40:THR:HG1	1:o:132:ASN:H	1.67	0.41
1:o:399:PHE:CG	1:o:400:PRO:HD2	2.55	0.41
1:r:370:SER:HA	1:r:524:TRP:CD1	2.56	0.41
1:t:193:ILE:HD11	1:v:261:PRO:HG3	2.01	0.41
1:t:378:ARG:HA	1:t:378:ARG:HD2	1.73	0.41
1:u:51:ASP:OD1	1:u:481:ARG:NE	2.38	0.41
1:w:125:LYS:HG2	1:w:476:VAL:HB	2.01	0.41
1:w:261:PRO:O	1:w:286:PRO:HB2	2.21	0.41
1:w:354:GLN:HG3	1:y:268:ALA:HB3	2.03	0.41
1:x:261:PRO:O	1:x:286:PRO:HB2	2.21	0.41
1:y:194:PRO:HB2	1:y:216:ILE:HG23	2.02	0.41
1:z:153:ALA:HA	1:4:134:GLN:HE22	1.85	0.41
1:2:125:LYS:HG2	1:2:476:VAL:HB	2.01	0.41
1:2:370:SER:HA	1:2:524:TRP:CD1	2.56	0.41
1:4:399:PHE:CG	1:4:400:PRO:HD2	2.55	0.41
1:A:261:PRO:HG3	1:G:193:ILE:HD11	2.01	0.41
1:C:40:THR:HG1	1:C:132:ASN:H	1.67	0.41
1:C:370:SER:HA	1:C:524:TRP:CD1	2.56	0.41
1:E:354:GLN:HG3	1:F:268:ALA:HB3	2.03	0.41
1:G:180:LEU:HD11	1:G:518:TYR:CE2	2.55	0.41
1:I:51:ASP:OD1	1:I:481:ARG:NE	2.39	0.41
1:K:261:PRO:O	1:K:286:PRO:HB2	2.21	0.41
1:K:354:GLN:HG3	1:8:268:ALA:HB3	2.03	0.41
1:L:40:THR:OG1	1:L:131:TYR:HB2	2.21	0.41
1:S:156:HIS:N	1:S:447:LYS:O	2.43	0.41
1:S:370:SER:HA	1:S:524:TRP:CD1	2.56	0.41
1:T:370:SER:HA	1:T:524:TRP:CD1	2.56	0.41
1:Z:156:HIS:N	1:Z:447:LYS:O	2.43	0.41
1:Z:354:GLN:HG3	1:3:268:ALA:HB3	2.03	0.41
1:a:40:THR:OG1	1:a:131:TYR:HB2	2.21	0.41
1:a:180:LEU:HD11	1:a:518:TYR:CE2	2.55	0.41
1:a:406:ARG:O	1:a:531:LYS:NZ	2.54	0.41
1:c:40:THR:OG1	1:c:131:TYR:HB2	2.21	0.41
1:c:180:LEU:HD11	1:c:518:TYR:CE2	2.55	0.41
1:c:222:GLU:OE1	1:c:222:GLU:N	2.50	0.41
1:f:153:ALA:HA	1:z:134:GLN:HE22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:261:PRO:O	1:f:286:PRO:HB2	2.21	0.41
1:g:40:THR:OG1	1:g:131:TYR:HB2	2.21	0.41
1:g:40:THR:HG1	1:g:132:ASN:H	1.67	0.41
1:g:194:PRO:HB2	1:g:216:ILE:HG23	2.01	0.41
1:g:370:SER:HA	1:g:524:TRP:CD1	2.56	0.41
1:k:180:LEU:HD11	1:k:518:TYR:CE2	2.55	0.41
1:k:261:PRO:O	1:k:286:PRO:HB2	2.21	0.41
1:m:370:SER:HA	1:m:524:TRP:CD1	2.56	0.41
1:t:180:LEU:HD11	1:t:518:TYR:CE2	2.55	0.41
1:v:370:SER:HA	1:v:524:TRP:CD1	2.56	0.41
1:v:488:ARG:NH2	1:y:508:PRO:HB2	2.35	0.41
1:z:40:THR:OG1	1:z:131:TYR:HB2	2.21	0.41
1:z:354:GLN:HG3	1:2:268:ALA:HB3	2.03	0.41
1:2:136:LYS:NZ	1:2:149:ASN:OD1	2.37	0.41
1:2:488:ARG:NH2	1:4:508:PRO:HB2	2.35	0.41
1:3:406:ARG:O	1:3:531:LYS:NZ	2.54	0.41
1:4:261:PRO:O	1:4:286:PRO:HB2	2.21	0.41
1:8:370:SER:HA	1:8:524:TRP:CD1	2.56	0.41
1:A:370:SER:HA	1:A:524:TRP:CD1	2.56	0.41
1:A:488:ARG:NH2	1:F:508:PRO:HB2	2.35	0.41
1:D:268:ALA:HB3	1:N:354:GLN:HG3	2.02	0.41
1:E:125:LYS:HG2	1:E:476:VAL:HB	2.01	0.41
1:F:261:PRO:O	1:F:286:PRO:HB2	2.21	0.41
1:K:153:ALA:HA	1:7:134:GLN:HE22	1.85	0.41
1:K:194:PRO:HB2	1:K:216:ILE:HG23	2.02	0.41
1:L:261:PRO:O	1:L:286:PRO:HB2	2.21	0.41
1:O:88:ARG:NH2	1:d:507:ASN:OD1	2.51	0.41
1:P:194:PRO:HB2	1:P:216:ILE:HG23	2.01	0.41
1:Q:501:GLY:O	1:Q:507:ASN:HB2	2.20	0.41
1:S:222:GLU:OE1	1:S:222:GLU:N	2.50	0.41
1:T:180:LEU:HD11	1:T:518:TYR:CE2	2.55	0.41
1:T:507:ASN:OD1	1:U:88:ARG:NH2	2.51	0.41
1:W:295:THR:O	1:W:402:GLN:HG2	2.21	0.41
1:a:268:ALA:HB3	1:8:354:GLN:HG3	2.03	0.41
1:e:40:THR:OG1	1:e:131:TYR:HB2	2.21	0.41
1:e:222:GLU:OE1	1:e:222:GLU:N	2.50	0.41
1:e:370:SER:HA	1:e:524:TRP:CD1	2.56	0.41
1:f:156:HIS:N	1:f:447:LYS:O	2.43	0.41
1:h:370:SER:HA	1:h:524:TRP:CD1	2.56	0.41
1:l:88:ARG:NH2	1:n:507:ASN:OD1	2.51	0.41
1:p:194:PRO:HB2	1:p:216:ILE:HG23	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:261:PRO:O	1:r:286:PRO:HB2	2.21	0.41
1:t:153:ALA:HA	1:y:134:GLN:HE22	1.85	0.41
1:t:488:ARG:NH2	1:5:508:PRO:HB2	2.35	0.41
1:v:508:PRO:HB2	1:y:488:ARG:NH2	2.35	0.41
1:x:501:GLY:O	1:x:507:ASN:HB2	2.20	0.41
1:y:261:PRO:O	1:y:286:PRO:HB2	2.21	0.41
1:z:261:PRO:O	1:z:286:PRO:HB2	2.21	0.41
1:1:370:SER:HA	1:1:524:TRP:CD1	2.56	0.41
1:3:40:THR:OG1	1:3:131:TYR:HB2	2.21	0.41
1:4:194:PRO:HB2	1:4:216:ILE:HG23	2.02	0.41
1:5:261:PRO:HG3	1:6:193:ILE:HD11	2.01	0.41
1:6:295:THR:O	1:6:402:GLN:HG2	2.21	0.41
1:A:261:PRO:O	1:A:286:PRO:HB2	2.21	0.41
1:B:370:SER:HA	1:B:524:TRP:CD1	2.56	0.41
1:C:354:GLN:HG3	1:M:268:ALA:HB3	2.02	0.41
1:C:378:ARG:HA	1:C:378:ARG:HD2	1.73	0.41
1:D:180:LEU:HD11	1:D:518:TYR:CE2	2.55	0.41
1:D:399:PHE:CG	1:D:400:PRO:HD2	2.55	0.41
1:F:40:THR:OG1	1:F:131:TYR:HB2	2.21	0.41
1:F:134:GLN:HE22	1:G:153:ALA:HA	1.85	0.41
1:G:51:ASP:OD1	1:G:481:ARG:NE	2.39	0.41
1:G:295:THR:O	1:G:402:GLN:HG2	2.21	0.41
1:G:488:ARG:NH2	1:H:508:PRO:HB2	2.35	0.41
1:H:40:THR:OG1	1:H:131:TYR:HB2	2.21	0.41
1:H:295:THR:O	1:H:402:GLN:HG2	2.21	0.41
1:H:354:GLN:HG3	1:Y:268:ALA:HB3	2.02	0.41
1:H:370:SER:HA	1:H:524:TRP:CD1	2.56	0.41
1:I:84:GLY:O	1:I:85:LYS:HD2	2.21	0.41
1:I:134:GLN:HE22	1:J:153:ALA:HA	1.86	0.41
1:I:406:ARG:O	1:I:531:LYS:NZ	2.54	0.41
1:J:488:ARG:NH2	1:K:508:PRO:HB2	2.35	0.41
1:L:295:THR:O	1:L:402:GLN:HG2	2.21	0.41
1:M:370:SER:HA	1:M:524:TRP:CD1	2.56	0.41
1:O:84:GLY:O	1:O:85:LYS:HD2	2.21	0.41
1:O:179:GLU:OE2	1:O:411:ARG:NH1	2.38	0.41
1:P:399:PHE:CG	1:P:400:PRO:HD2	2.55	0.41
1:R:88:ARG:NH2	1:V:507:ASN:OD1	2.51	0.41
1:S:194:PRO:HB2	1:S:216:ILE:HG23	2.01	0.41
1:S:261:PRO:O	1:S:286:PRO:HB2	2.21	0.41
1:T:268:ALA:HB3	1:d:354:GLN:HG3	2.02	0.41
1:U:370:SER:HA	1:U:524:TRP:CD1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:194:PRO:HB2	1:V:216:ILE:HG23	2.01	0.41
1:V:261:PRO:O	1:V:286:PRO:HB2	2.21	0.41
1:X:40:THR:OG1	1:X:131:TYR:HB2	2.21	0.41
1:X:354:GLN:HG3	1:e:268:ALA:HB3	2.02	0.41
1:Y:84:GLY:O	1:Y:85:LYS:HD2	2.21	0.41
1:Z:40:THR:OG1	1:Z:131:TYR:HB2	2.21	0.41
1:b:295:THR:O	1:b:402:GLN:HG2	2.21	0.41
1:c:194:PRO:HB2	1:c:216:ILE:HG23	2.02	0.41
1:c:268:ALA:HB3	1:o:354:GLN:HG3	2.02	0.41
1:c:370:SER:HA	1:c:524:TRP:CD1	2.56	0.41
1:d:156:HIS:N	1:d:447:LYS:O	2.43	0.41
1:f:295:THR:O	1:f:402:GLN:HG2	2.21	0.41
1:g:354:GLN:HG3	1:h:268:ALA:HB3	2.02	0.41
1:i:354:GLN:HG3	1:k:268:ALA:HB3	2.02	0.41
1:k:399:PHE:CG	1:k:400:PRO:HD2	2.55	0.41
1:l:84:GLY:O	1:l:85:LYS:HD2	2.21	0.41
1:m:40:THR:OG1	1:m:131:TYR:HB2	2.21	0.41
1:m:180:LEU:HD11	1:m:518:TYR:CE2	2.55	0.41
1:m:261:PRO:O	1:m:286:PRO:HB2	2.21	0.41
1:m:507:ASN:OD1	1:s:88:ARG:NH2	2.51	0.41
1:o:29:GLY:N	1:7:234:SER:O	2.33	0.41
1:o:40:THR:OG1	1:o:131:TYR:HB2	2.21	0.41
1:p:261:PRO:O	1:p:286:PRO:HB2	2.21	0.41
1:p:507:ASN:OD1	1:q:88:ARG:NH2	2.51	0.41
1:q:378:ARG:HD2	1:q:378:ARG:HA	1.73	0.41
1:r:153:ALA:HA	1:x:134:GLN:HE22	1.86	0.41
1:r:194:PRO:HB2	1:r:216:ILE:HG23	2.02	0.41
1:r:222:GLU:OE1	1:r:222:GLU:N	2.50	0.41
1:r:406:ARG:O	1:r:531:LYS:NZ	2.54	0.41
1:s:370:SER:HA	1:s:524:TRP:CD1	2.56	0.41
1:t:295:THR:O	1:t:402:GLN:HG2	2.21	0.41
1:u:84:GLY:O	1:u:85:LYS:HD2	2.21	0.41
1:u:261:PRO:O	1:u:286:PRO:HB2	2.21	0.41
1:u:406:ARG:O	1:u:531:LYS:NZ	2.54	0.41
1:v:261:PRO:O	1:v:286:PRO:HB2	2.21	0.41
1:x:295:THR:O	1:x:402:GLN:HG2	2.21	0.41
1:x:370:SER:HA	1:x:524:TRP:CD1	2.56	0.41
1:y:40:THR:OG1	1:y:131:TYR:HB2	2.21	0.41
1:y:72:TYR:OH	1:y:222:GLU:OE1	2.37	0.41
1:z:84:GLY:O	1:z:85:LYS:HD2	2.21	0.41
1:z:295:THR:O	1:z:402:GLN:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:180:LEU:HD11	1:3:518:TYR:CE2	2.55	0.41
1:3:194:PRO:HB2	1:3:216:ILE:HG23	2.02	0.41
1:3:345:ARG:HB2	1:3:379:ASP:HB3	2.03	0.41
1:3:354:GLN:HG3	1:4:268:ALA:HB3	2.02	0.41
1:4:370:SER:HA	1:4:524:TRP:CD1	2.56	0.41
1:4:406:ARG:O	1:4:531:LYS:NZ	2.54	0.41
1:5:40:THR:OG1	1:5:131:TYR:HB2	2.21	0.41
1:5:354:GLN:HG3	1:7:268:ALA:HB3	2.02	0.41
1:5:370:SER:HA	1:5:524:TRP:CD1	2.56	0.41
1:7:84:GLY:O	1:7:85:LYS:HD2	2.21	0.41
1:7:158:PHE:O	1:7:445:PHE:N	2.44	0.41
1:8:40:THR:OG1	1:8:131:TYR:HB2	2.21	0.41
1:C:194:PRO:HB2	1:C:216:ILE:HG23	2.02	0.41
1:D:84:GLY:O	1:D:85:LYS:HD2	2.21	0.41
1:D:194:PRO:HB2	1:D:216:ILE:HG23	2.02	0.41
1:D:508:PRO:HB2	1:M:488:ARG:NH2	2.35	0.41
1:G:84:GLY:O	1:G:85:LYS:HD2	2.21	0.41
1:I:261:PRO:O	1:I:286:PRO:HB2	2.21	0.41
1:K:268:ALA:HB3	1:a:354:GLN:HG3	2.02	0.41
1:K:295:THR:O	1:K:402:GLN:HG2	2.21	0.41
1:K:370:SER:HA	1:K:524:TRP:CD1	2.56	0.41
1:K:531:LYS:NZ	1:a:423:ASP:OD2	2.44	0.41
1:L:84:GLY:O	1:L:85:LYS:HD2	2.21	0.41
1:L:222:GLU:OE1	1:L:222:GLU:N	2.50	0.41
1:Q:134:GLN:HE22	1:S:153:ALA:HA	1.86	0.41
1:Q:295:THR:O	1:Q:402:GLN:HG2	2.21	0.41
1:Q:370:SER:HA	1:Q:524:TRP:CD1	2.56	0.41
1:S:180:LEU:HD11	1:S:518:TYR:CE2	2.55	0.41
1:T:40:THR:OG1	1:T:131:TYR:HB2	2.21	0.41
1:T:245:TRP:HH2	1:T:478:GLU:HG2	1.86	0.41
1:T:261:PRO:O	1:T:286:PRO:HB2	2.21	0.41
1:X:261:PRO:O	1:X:286:PRO:HB2	2.21	0.41
1:Y:134:GLN:HE22	1:4:153:ALA:HA	1.86	0.41
1:Y:261:PRO:O	1:Y:286:PRO:HB2	2.21	0.41
1:Z:193:ILE:HD11	1:3:261:PRO:HG3	2.01	0.41
1:a:194:PRO:HB2	1:a:216:ILE:HG23	2.02	0.41
1:a:345:ARG:HB2	1:a:379:ASP:HB3	2.03	0.41
1:b:345:ARG:HB2	1:b:379:ASP:HB3	2.03	0.41
1:d:399:PHE:CG	1:d:400:PRO:HD2	2.55	0.41
1:h:488:ARG:NH2	1:k:508:PRO:HB2	2.35	0.41
1:j:399:PHE:CG	1:j:400:PRO:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:84:GLY:O	1:k:85:LYS:HD2	2.21	0.41
1:m:245:TRP:HH2	1:m:478:GLU:HG2	1.86	0.41
1:m:268:ALA:HB3	1:n:354:GLN:HG3	2.02	0.41
1:n:399:PHE:CG	1:n:400:PRO:HD2	2.55	0.41
1:q:370:SER:HA	1:q:524:TRP:CD1	2.56	0.41
1:u:134:GLN:HE22	1:2:153:ALA:HA	1.86	0.41
1:3:222:GLU:OE1	1:3:222:GLU:N	2.50	0.41
1:3:423:ASP:OD2	1:4:531:LYS:NZ	2.44	0.41
1:4:295:THR:O	1:4:402:GLN:HG2	2.21	0.41
1:5:295:THR:O	1:5:402:GLN:HG2	2.21	0.41
1:A:245:TRP:HH2	1:A:478:GLU:HG2	1.87	0.40
1:A:508:PRO:HB2	1:F:488:ARG:NH2	2.35	0.40
1:D:153:ALA:HA	1:E:134:GLN:HE22	1.85	0.40
1:E:370:SER:HA	1:E:524:TRP:CD1	2.56	0.40
1:H:345:ARG:HB2	1:H:379:ASP:HB3	2.03	0.40
1:J:40:THR:OG1	1:J:131:TYR:HB2	2.21	0.40
1:J:245:TRP:HH2	1:J:478:GLU:HG2	1.87	0.40
1:J:261:PRO:HG3	1:L:193:ILE:HD11	2.03	0.40
1:M:245:TRP:HH2	1:M:478:GLU:HG2	1.86	0.40
1:M:345:ARG:HB2	1:M:379:ASP:HB3	2.03	0.40
1:O:40:THR:OG1	1:O:131:TYR:HB2	2.21	0.40
1:P:245:TRP:HH2	1:P:478:GLU:HG2	1.87	0.40
1:R:295:THR:O	1:R:402:GLN:HG2	2.21	0.40
1:R:370:SER:HA	1:R:524:TRP:CD1	2.56	0.40
1:X:134:GLN:HE22	1:Y:153:ALA:HA	1.85	0.40
1:Y:158:PHE:O	1:Y:445:PHE:N	2.44	0.40
1:Z:245:TRP:HH2	1:Z:478:GLU:HG2	1.87	0.40
1:e:194:PRO:HB2	1:e:216:ILE:HG23	2.02	0.40
1:f:345:ARG:HB2	1:f:379:ASP:HB3	2.03	0.40
1:g:84:GLY:O	1:g:85:LYS:HD2	2.21	0.40
1:j:245:TRP:HH2	1:j:478:GLU:HG2	1.87	0.40
1:j:261:PRO:O	1:j:286:PRO:HB2	2.21	0.40
1:j:370:SER:HA	1:j:524:TRP:CD1	2.56	0.40
1:k:40:THR:OG1	1:k:131:TYR:HB2	2.21	0.40
1:l:261:PRO:O	1:l:286:PRO:HB2	2.21	0.40
1:o:134:GLN:HE22	1:7:153:ALA:HA	1.85	0.40
1:o:261:PRO:O	1:o:286:PRO:HB2	2.21	0.40
1:p:40:THR:OG1	1:p:131:TYR:HB2	2.21	0.40
1:q:295:THR:O	1:q:402:GLN:HG2	2.21	0.40
1:r:156:HIS:N	1:r:447:LYS:O	2.43	0.40
1:r:180:LEU:HD11	1:r:518:TYR:CE2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:261:PRO:O	1:s:286:PRO:HB2	2.21	0.40
1:t:84:GLY:O	1:t:85:LYS:HD2	2.21	0.40
1:t:370:SER:HA	1:t:524:TRP:CD1	2.56	0.40
1:v:245:TRP:HH2	1:v:478:GLU:HG2	1.87	0.40
1:v:378:ARG:HD2	1:v:378:ARG:HA	1.73	0.40
1:w:370:SER:HA	1:w:524:TRP:CD1	2.56	0.40
1:2:40:THR:OG1	1:2:131:TYR:HB2	2.21	0.40
1:2:245:TRP:HH2	1:2:478:GLU:HG2	1.87	0.40
1:6:261:PRO:O	1:6:286:PRO:HB2	2.21	0.40
1:7:261:PRO:O	1:7:286:PRO:HB2	2.21	0.40
1:8:245:TRP:HH2	1:8:478:GLU:HG2	1.87	0.40
1:A:179:GLU:OE2	1:A:411:ARG:NH1	2.38	0.40
1:B:261:PRO:O	1:B:286:PRO:HB2	2.21	0.40
1:C:84:GLY:O	1:C:85:LYS:HD2	2.21	0.40
1:C:158:PHE:O	1:C:445:PHE:N	2.44	0.40
1:D:40:THR:OG1	1:D:131:TYR:HB2	2.21	0.40
1:D:406:ARG:O	1:D:531:LYS:NZ	2.54	0.40
1:E:180:LEU:HD11	1:E:518:TYR:CE2	2.55	0.40
1:G:370:SER:HA	1:G:524:TRP:CD1	2.56	0.40
1:K:40:THR:OG1	1:K:131:TYR:HB2	2.21	0.40
1:M:378:ARG:HD2	1:M:378:ARG:HA	1.73	0.40
1:O:261:PRO:O	1:O:286:PRO:HB2	2.21	0.40
1:P:84:GLY:O	1:P:85:LYS:HD2	2.21	0.40
1:P:261:PRO:O	1:P:286:PRO:HB2	2.21	0.40
1:Q:40:THR:OG1	1:Q:131:TYR:HB2	2.21	0.40
1:R:40:THR:OG1	1:R:131:TYR:HB2	2.21	0.40
1:T:345:ARG:HB2	1:T:379:ASP:HB3	2.03	0.40
1:W:261:PRO:O	1:W:286:PRO:HB2	2.21	0.40
1:W:268:ALA:HB3	1:Y:354:GLN:HG3	2.02	0.40
1:X:295:THR:O	1:X:402:GLN:HG2	2.21	0.40
1:Y:245:TRP:HH2	1:Y:478:GLU:HG2	1.87	0.40
1:Z:531:LYS:NZ	1:4:423:ASP:OD2	2.44	0.40
1:h:245:TRP:HH2	1:h:478:GLU:HG2	1.86	0.40
1:h:345:ARG:HB2	1:h:379:ASP:HB3	2.03	0.40
1:h:406:ARG:O	1:h:531:LYS:NZ	2.54	0.40
1:k:153:ALA:HA	1:w:134:GLN:HE22	1.85	0.40
1:k:194:PRO:HB2	1:k:216:ILE:HG23	2.02	0.40
1:l:40:THR:OG1	1:l:131:TYR:HB2	2.21	0.40
1:u:507:ASN:OD1	1:2:88:ARG:NH2	2.51	0.40
1:w:40:THR:OG1	1:w:131:TYR:HB2	2.21	0.40
1:z:370:SER:HA	1:z:524:TRP:CD1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:261:PRO:O	1:1:286:PRO:HB2	2.21	0.40
1:2:29:GLY:N	1:3:234:SER:O	2.33	0.40
1:3:370:SER:HA	1:3:524:TRP:CD1	2.56	0.40
1:5:345:ARG:HB2	1:5:379:ASP:HB3	2.03	0.40
1:7:179:GLU:OE2	1:7:411:ARG:NH1	2.38	0.40
1:A:84:GLY:O	1:A:85:LYS:HD2	2.21	0.40
1:A:134:GLN:HE22	1:E:153:ALA:HA	1.86	0.40
1:D:370:SER:HA	1:D:524:TRP:CD1	2.56	0.40
1:E:40:THR:OG1	1:E:131:TYR:HB2	2.21	0.40
1:M:406:ARG:O	1:M:531:LYS:NZ	2.54	0.40
1:O:29:GLY:N	1:P:234:SER:O	2.32	0.40
1:P:370:SER:HA	1:P:524:TRP:CD1	2.56	0.40
1:R:345:ARG:HB2	1:R:379:ASP:HB3	2.03	0.40
1:R:378:ARG:HD2	1:R:378:ARG:HA	1.73	0.40
1:U:261:PRO:O	1:U:286:PRO:HB2	2.21	0.40
1:V:40:THR:OG1	1:V:131:TYR:HB2	2.21	0.40
1:W:84:GLY:O	1:W:85:LYS:HD2	2.21	0.40
1:X:84:GLY:O	1:X:85:LYS:HD2	2.21	0.40
1:X:370:SER:HA	1:X:524:TRP:CD1	2.56	0.40
1:Y:40:THR:OG1	1:Y:131:TYR:HB2	2.21	0.40
1:Z:406:ARG:O	1:Z:531:LYS:NZ	2.54	0.40
1:a:84:GLY:O	1:a:85:LYS:HD2	2.21	0.40
1:a:222:GLU:OE1	1:a:222:GLU:N	2.50	0.40
1:a:261:PRO:HG3	1:8:193:ILE:HD11	2.01	0.40
1:b:40:THR:OG1	1:b:131:TYR:HB2	2.21	0.40
1:d:345:ARG:HB2	1:d:379:ASP:HB3	2.03	0.40
1:f:40:THR:OG1	1:f:131:TYR:HB2	2.21	0.40
1:g:378:ARG:HA	1:g:378:ARG:HD2	1.73	0.40
1:i:268:ALA:HB3	1:j:354:GLN:HG3	2.02	0.40
1:i:370:SER:HA	1:i:524:TRP:CD1	2.56	0.40
1:j:84:GLY:O	1:j:85:LYS:HD2	2.21	0.40
1:k:370:SER:HA	1:k:524:TRP:CD1	2.56	0.40
1:k:406:ARG:O	1:k:531:LYS:NZ	2.54	0.40
1:l:295:THR:O	1:l:402:GLN:HG2	2.21	0.40
1:m:345:ARG:HB2	1:m:379:ASP:HB3	2.03	0.40
1:n:179:GLU:OE2	1:n:411:ARG:NH1	2.38	0.40
1:n:345:ARG:HB2	1:n:379:ASP:HB3	2.03	0.40
1:o:295:THR:O	1:o:402:GLN:HG2	2.21	0.40
1:o:370:SER:HA	1:o:524:TRP:CD1	2.56	0.40
1:p:488:ARG:NH2	1:s:508:PRO:HB2	2.35	0.40
1:q:40:THR:OG1	1:q:131:TYR:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:295:THR:O	1:r:402:GLN:HG2	2.21	0.40
1:u:40:THR:OG1	1:u:131:TYR:HB2	2.21	0.40
1:v:84:GLY:O	1:v:85:LYS:HD2	2.21	0.40
1:v:134:GLN:HE22	1:w:153:ALA:HA	1.85	0.40
1:v:156:HIS:N	1:v:447:LYS:O	2.43	0.40
1:x:40:THR:OG1	1:x:131:TYR:HB2	2.21	0.40
1:z:222:GLU:OE1	1:z:222:GLU:N	2.50	0.40
1:z:268:ALA:HB3	1:1:354:GLN:HG3	2.03	0.40
1:2:84:GLY:O	1:2:85:LYS:HD2	2.21	0.40
1:7:40:THR:OG1	1:7:131:TYR:HB2	2.21	0.40
1:7:245:TRP:HH2	1:7:478:GLU:HG2	1.87	0.40
1:B:245:TRP:HH2	1:B:478:GLU:HG2	1.87	0.40
1:G:40:THR:OG1	1:G:131:TYR:HB2	2.21	0.40
1:G:268:ALA:HB3	1:I:354:GLN:HG3	2.02	0.40
1:H:84:GLY:O	1:H:85:LYS:HD2	2.21	0.40
1:H:261:PRO:O	1:H:286:PRO:HB2	2.21	0.40
1:I:40:THR:OG1	1:I:131:TYR:HB2	2.21	0.40
1:J:84:GLY:O	1:J:85:LYS:HD2	2.21	0.40
1:J:134:GLN:HE22	1:a:153:ALA:HA	1.86	0.40
1:K:84:GLY:O	1:K:85:LYS:HD2	2.21	0.40
1:K:134:GLN:HE22	1:L:153:ALA:HA	1.86	0.40
1:K:345:ARG:HB2	1:K:379:ASP:HB3	2.03	0.40
1:L:370:SER:HA	1:L:524:TRP:CD1	2.56	0.40
1:N:268:ALA:HB3	1:P:354:GLN:HG3	2.02	0.40
1:N:370:SER:HA	1:N:524:TRP:CD1	2.56	0.40
1:S:40:THR:OG1	1:S:131:TYR:HB2	2.21	0.40
1:S:295:THR:O	1:S:402:GLN:HG2	2.21	0.40
1:U:488:ARG:NH2	1:V:508:PRO:HB2	2.36	0.40
1:V:245:TRP:HH2	1:V:478:GLU:HG2	1.87	0.40
1:X:345:ARG:HB2	1:X:379:ASP:HB3	2.03	0.40
1:c:245:TRP:HH2	1:c:478:GLU:HG2	1.87	0.40
1:c:295:THR:O	1:c:402:GLN:HG2	2.21	0.40
1:d:179:GLU:OE2	1:d:411:ARG:NH1	2.38	0.40
1:d:245:TRP:HH2	1:d:478:GLU:HG2	1.87	0.40
1:e:295:THR:O	1:e:402:GLN:HG2	2.21	0.40
1:f:51:ASP:OD1	1:f:481:ARG:NE	2.38	0.40
1:l:179:GLU:OE2	1:l:411:ARG:NH1	2.38	0.40
1:m:51:ASP:OD1	1:m:481:ARG:NE	2.38	0.40
1:n:40:THR:OG1	1:n:131:TYR:HB2	2.21	0.40
1:o:84:GLY:O	1:o:85:LYS:HD2	2.21	0.40
1:p:134:GLN:HE22	1:q:153:ALA:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:222:GLU:OE1	1:p:222:GLU:N	2.50	0.40
1:p:370:SER:HA	1:p:524:TRP:CD1	2.56	0.40
1:q:177:MET:HA	1:q:178:PRO:HD3	1.99	0.40
1:r:40:THR:OG1	1:r:131:TYR:HB2	2.21	0.40
1:s:84:GLY:O	1:s:85:LYS:HD2	2.21	0.40
1:t:51:ASP:OD1	1:t:481:ARG:NE	2.39	0.40
1:t:245:TRP:HH2	1:t:478:GLU:HG2	1.86	0.40
1:u:370:SER:HA	1:u:524:TRP:CD1	2.56	0.40
1:w:180:LEU:HD11	1:w:518:TYR:CE2	2.55	0.40
1:3:84:GLY:O	1:3:85:LYS:HD2	2.21	0.40
1:4:40:THR:OG1	1:4:131:TYR:HB2	2.21	0.40
1:4:84:GLY:O	1:4:85:LYS:HD2	2.21	0.40
1:6:40:THR:OG1	1:6:131:TYR:HB2	2.21	0.40
1:6:84:GLY:O	1:6:85:LYS:HD2	2.21	0.40
1:6:268:ALA:HB3	1:7:354:GLN:HG3	2.02	0.40
1:6:370:SER:HA	1:6:524:TRP:CD1	2.56	0.40
1:7:345:ARG:HB2	1:7:379:ASP:HB3	2.03	0.40
1:B:51:ASP:OD1	1:B:481:ARG:NE	2.38	0.40
1:B:374:LEU:HD22	1:J:212:ILE:HD11	2.04	0.40
1:C:245:TRP:HH2	1:C:478:GLU:HG2	1.87	0.40
1:D:295:THR:O	1:D:402:GLN:HG2	2.21	0.40
1:F:295:THR:O	1:F:402:GLN:HG2	2.21	0.40
1:G:245:TRP:HH2	1:G:478:GLU:HG2	1.86	0.40
1:I:370:SER:HA	1:I:524:TRP:CD1	2.56	0.40
1:J:261:PRO:O	1:J:286:PRO:HB2	2.21	0.40
1:J:295:THR:O	1:J:402:GLN:HG2	2.21	0.40
1:O:295:THR:O	1:O:402:GLN:HG2	2.21	0.40
1:R:84:GLY:O	1:R:85:LYS:HD2	2.21	0.40
1:R:177:MET:HA	1:R:178:PRO:HD3	1.99	0.40
1:S:345:ARG:HB2	1:S:379:ASP:HB3	2.03	0.40
1:T:84:GLY:O	1:T:85:LYS:HD2	2.21	0.40
1:T:156:HIS:CD2	1:T:226:HIS:CD2	3.10	0.40
1:U:508:PRO:HB2	1:V:488:ARG:NH2	2.35	0.40
1:V:370:SER:HA	1:V:524:TRP:CD1	2.56	0.40
1:W:370:SER:HA	1:W:524:TRP:CD1	2.56	0.40
1:Y:295:THR:O	1:Y:402:GLN:HG2	2.21	0.40
1:Y:345:ARG:HB2	1:Y:379:ASP:HB3	2.03	0.40
1:a:370:SER:HA	1:a:524:TRP:CD1	2.56	0.40
1:b:84:GLY:O	1:b:85:LYS:HD2	2.21	0.40
1:d:40:THR:OG1	1:d:131:TYR:HB2	2.21	0.40
1:e:245:TRP:HH2	1:e:478:GLU:HG2	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:84:GLY:O	1:f:85:LYS:HD2	2.21	0.40
1:g:245:TRP:HH2	1:g:478:GLU:HG2	1.87	0.40
1:g:508:PRO:HB2	1:z:488:ARG:NH2	2.36	0.40
1:i:245:TRP:HH2	1:i:478:GLU:HG2	1.87	0.40
1:j:51:ASP:OD1	1:j:481:ARG:NE	2.38	0.40
1:m:156:HIS:CD2	1:m:226:HIS:CD2	3.10	0.40
1:n:245:TRP:HH2	1:n:478:GLU:HG2	1.87	0.40
1:o:345:ARG:HB2	1:o:379:ASP:HB3	2.03	0.40
1:p:245:TRP:HH2	1:p:478:GLU:HG2	1.87	0.40
1:p:508:PRO:HB2	1:s:488:ARG:NH2	2.36	0.40
1:q:84:GLY:O	1:q:85:LYS:HD2	2.21	0.40
1:q:345:ARG:HB2	1:q:379:ASP:HB3	2.03	0.40
1:t:40:THR:OG1	1:t:131:TYR:HB2	2.21	0.40
1:t:268:ALA:HB3	1:u:354:GLN:HG3	2.02	0.40
1:y:345:ARG:HB2	1:y:379:ASP:HB3	2.03	0.40
1:1:245:TRP:HH2	1:1:478:GLU:HG2	1.87	0.40
1:3:134:GLN:HE22	1:8:153:ALA:HA	1.85	0.40
1:4:345:ARG:HB2	1:4:379:ASP:HB3	2.03	0.40
1:5:261:PRO:O	1:5:286:PRO:HB2	2.21	0.40
1:6:222:GLU:OE1	1:6:222:GLU:N	2.50	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	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	2	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	3	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	4	514/516 (100%)	498 (97%)	16 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	5	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	6	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	7	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	8	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	A	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	B	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	C	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	D	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	E	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	F	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	G	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	H	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	I	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	J	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	K	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	L	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	M	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	N	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	O	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	P	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	Q	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	R	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	S	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	T	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	U	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	V	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	W	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	X	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	Y	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	Z	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	a	514/516 (100%)	498 (97%)	16 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	b	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	c	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	d	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	e	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	f	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	g	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	h	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	i	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	j	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	k	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	l	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	m	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	n	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	o	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	p	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	q	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	r	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	s	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	t	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	u	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	v	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	w	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	x	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	y	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
1	z	514/516 (100%)	498 (97%)	16 (3%)	0	100	100
All	All	30840/30960 (100%)	29880 (97%)	960 (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	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	2	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	3	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	4	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	5	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	6	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	7	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	8	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	A	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	B	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	C	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	D	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	E	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	F	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	G	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	H	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	I	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	J	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	K	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	L	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	M	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	N	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	O	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	P	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	Q	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	R	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	S	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	T	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	U	447/448 (100%)	446 (100%)	1 (0%)	92	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	V	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	W	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	X	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	Y	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	Z	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	a	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	b	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	c	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	d	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	e	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	f	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	g	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	h	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	i	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	j	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	k	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	l	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	m	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	n	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	o	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	p	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	q	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	r	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	s	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	t	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	u	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	v	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	w	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	x	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	y	447/448 (100%)	446 (100%)	1 (0%)	92	97
1	z	447/448 (100%)	446 (100%)	1 (0%)	92	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	26820/26880 (100%)	26760 (100%)	60 (0%)	91	97

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

Mol	Chain	Res	Type
1	A	183	GLU
1	B	183	GLU
1	C	183	GLU
1	D	183	GLU
1	E	183	GLU
1	F	183	GLU
1	G	183	GLU
1	H	183	GLU
1	I	183	GLU
1	J	183	GLU
1	K	183	GLU
1	L	183	GLU
1	M	183	GLU
1	N	183	GLU
1	O	183	GLU
1	P	183	GLU
1	Q	183	GLU
1	R	183	GLU
1	S	183	GLU
1	T	183	GLU
1	U	183	GLU
1	V	183	GLU
1	W	183	GLU
1	X	183	GLU
1	Y	183	GLU
1	Z	183	GLU
1	a	183	GLU
1	b	183	GLU
1	c	183	GLU
1	d	183	GLU
1	e	183	GLU
1	f	183	GLU
1	g	183	GLU
1	h	183	GLU
1	i	183	GLU
1	j	183	GLU
1	k	183	GLU

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Mol	Chain	Res	Type
1	l	183	GLU
1	m	183	GLU
1	n	183	GLU
1	o	183	GLU
1	p	183	GLU
1	q	183	GLU
1	r	183	GLU
1	s	183	GLU
1	t	183	GLU
1	u	183	GLU
1	v	183	GLU
1	w	183	GLU
1	x	183	GLU
1	y	183	GLU
1	z	183	GLU
1	1	183	GLU
1	2	183	GLU
1	3	183	GLU
1	4	183	GLU
1	5	183	GLU
1	6	183	GLU
1	7	183	GLU
1	8	183	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1052) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	61	GLN
1	A	67	GLN
1	A	70	HIS
1	A	87	GLN
1	A	109	GLN
1	A	127	HIS
1	A	134	GLN
1	A	156	HIS
1	A	167	ASN
1	A	170	HIS
1	A	206	ASN
1	A	226	HIS
1	A	357	GLN
1	A	391	ASN
1	A	401	ASN

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Mol	Chain	Res	Type
1	A	413	ASN
1	A	533	ASN
1	B	61	GLN
1	B	67	GLN
1	B	70	HIS
1	B	87	GLN
1	B	109	GLN
1	B	127	HIS
1	B	134	GLN
1	B	156	HIS
1	B	167	ASN
1	B	170	HIS
1	B	189	GLN
1	B	206	ASN
1	B	226	HIS
1	B	357	GLN
1	B	391	ASN
1	B	401	ASN
1	B	413	ASN
1	B	533	ASN
1	C	61	GLN
1	C	67	GLN
1	C	70	HIS
1	C	87	GLN
1	C	109	GLN
1	C	127	HIS
1	C	134	GLN
1	C	156	HIS
1	C	167	ASN
1	C	170	HIS
1	C	189	GLN
1	C	206	ASN
1	C	226	HIS
1	C	357	GLN
1	C	391	ASN
1	C	401	ASN
1	C	413	ASN
1	C	533	ASN
1	D	61	GLN
1	D	67	GLN
1	D	70	HIS
1	D	87	GLN

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Mol	Chain	Res	Type
1	D	109	GLN
1	D	127	HIS
1	D	134	GLN
1	D	156	HIS
1	D	167	ASN
1	D	170	HIS
1	D	189	GLN
1	D	206	ASN
1	D	226	HIS
1	D	357	GLN
1	D	391	ASN
1	D	401	ASN
1	D	413	ASN
1	D	533	ASN
1	E	61	GLN
1	E	67	GLN
1	E	70	HIS
1	E	87	GLN
1	E	109	GLN
1	E	127	HIS
1	E	134	GLN
1	E	156	HIS
1	E	167	ASN
1	E	170	HIS
1	E	189	GLN
1	E	226	HIS
1	E	357	GLN
1	E	391	ASN
1	E	401	ASN
1	E	413	ASN
1	E	533	ASN
1	F	61	GLN
1	F	67	GLN
1	F	70	HIS
1	F	87	GLN
1	F	109	GLN
1	F	127	HIS
1	F	134	GLN
1	F	156	HIS
1	F	167	ASN
1	F	170	HIS
1	F	189	GLN

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Mol	Chain	Res	Type
1	F	206	ASN
1	F	226	HIS
1	F	357	GLN
1	F	391	ASN
1	F	401	ASN
1	F	413	ASN
1	F	493	HIS
1	F	533	ASN
1	G	61	GLN
1	G	67	GLN
1	G	70	HIS
1	G	87	GLN
1	G	109	GLN
1	G	127	HIS
1	G	134	GLN
1	G	156	HIS
1	G	167	ASN
1	G	170	HIS
1	G	189	GLN
1	G	226	HIS
1	G	357	GLN
1	G	391	ASN
1	G	401	ASN
1	G	413	ASN
1	G	533	ASN
1	H	61	GLN
1	H	67	GLN
1	H	70	HIS
1	H	87	GLN
1	H	109	GLN
1	H	127	HIS
1	H	134	GLN
1	H	156	HIS
1	H	167	ASN
1	H	170	HIS
1	H	189	GLN
1	H	206	ASN
1	H	226	HIS
1	H	357	GLN
1	H	391	ASN
1	H	401	ASN
1	H	413	ASN

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Mol	Chain	Res	Type
1	H	470	GLN
1	H	533	ASN
1	I	61	GLN
1	I	67	GLN
1	I	70	HIS
1	I	87	GLN
1	I	109	GLN
1	I	127	HIS
1	I	134	GLN
1	I	156	HIS
1	I	167	ASN
1	I	170	HIS
1	I	189	GLN
1	I	206	ASN
1	I	226	HIS
1	I	357	GLN
1	I	391	ASN
1	I	401	ASN
1	I	413	ASN
1	I	533	ASN
1	J	61	GLN
1	J	67	GLN
1	J	70	HIS
1	J	87	GLN
1	J	109	GLN
1	J	127	HIS
1	J	134	GLN
1	J	156	HIS
1	J	167	ASN
1	J	170	HIS
1	J	189	GLN
1	J	226	HIS
1	J	357	GLN
1	J	391	ASN
1	J	401	ASN
1	J	413	ASN
1	J	470	GLN
1	J	533	ASN
1	K	61	GLN
1	K	67	GLN
1	K	70	HIS
1	K	87	GLN

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Mol	Chain	Res	Type
1	K	109	GLN
1	K	127	HIS
1	K	134	GLN
1	K	156	HIS
1	K	167	ASN
1	K	170	HIS
1	K	206	ASN
1	K	226	HIS
1	K	357	GLN
1	K	391	ASN
1	K	401	ASN
1	K	413	ASN
1	K	470	GLN
1	K	533	ASN
1	L	61	GLN
1	L	67	GLN
1	L	70	HIS
1	L	87	GLN
1	L	109	GLN
1	L	127	HIS
1	L	134	GLN
1	L	156	HIS
1	L	167	ASN
1	L	170	HIS
1	L	226	HIS
1	L	357	GLN
1	L	391	ASN
1	L	401	ASN
1	L	413	ASN
1	L	533	ASN
1	M	61	GLN
1	M	67	GLN
1	M	70	HIS
1	M	87	GLN
1	M	109	GLN
1	M	127	HIS
1	M	134	GLN
1	M	156	HIS
1	M	167	ASN
1	M	170	HIS
1	M	189	GLN
1	M	206	ASN

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Mol	Chain	Res	Type
1	M	226	HIS
1	M	357	GLN
1	M	391	ASN
1	M	401	ASN
1	M	413	ASN
1	M	533	ASN
1	N	61	GLN
1	N	67	GLN
1	N	70	HIS
1	N	87	GLN
1	N	109	GLN
1	N	127	HIS
1	N	134	GLN
1	N	156	HIS
1	N	167	ASN
1	N	170	HIS
1	N	189	GLN
1	N	226	HIS
1	N	357	GLN
1	N	391	ASN
1	N	401	ASN
1	N	413	ASN
1	N	533	ASN
1	O	61	GLN
1	O	67	GLN
1	O	70	HIS
1	O	87	GLN
1	O	109	GLN
1	O	127	HIS
1	O	134	GLN
1	O	156	HIS
1	O	167	ASN
1	O	170	HIS
1	O	189	GLN
1	O	226	HIS
1	O	357	GLN
1	O	391	ASN
1	O	401	ASN
1	O	413	ASN
1	O	464	ASN
1	O	533	ASN
1	P	61	GLN

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Mol	Chain	Res	Type
1	P	67	GLN
1	P	70	HIS
1	P	87	GLN
1	P	109	GLN
1	P	127	HIS
1	P	134	GLN
1	P	156	HIS
1	P	167	ASN
1	P	170	HIS
1	P	189	GLN
1	P	206	ASN
1	P	226	HIS
1	P	357	GLN
1	P	391	ASN
1	P	401	ASN
1	P	413	ASN
1	P	533	ASN
1	Q	61	GLN
1	Q	67	GLN
1	Q	70	HIS
1	Q	87	GLN
1	Q	109	GLN
1	Q	127	HIS
1	Q	134	GLN
1	Q	156	HIS
1	Q	167	ASN
1	Q	170	HIS
1	Q	189	GLN
1	Q	206	ASN
1	Q	226	HIS
1	Q	357	GLN
1	Q	391	ASN
1	Q	401	ASN
1	Q	413	ASN
1	Q	533	ASN
1	R	61	GLN
1	R	67	GLN
1	R	70	HIS
1	R	87	GLN
1	R	109	GLN
1	R	127	HIS
1	R	134	GLN

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Mol	Chain	Res	Type
1	R	156	HIS
1	R	167	ASN
1	R	170	HIS
1	R	226	HIS
1	R	357	GLN
1	R	391	ASN
1	R	401	ASN
1	R	413	ASN
1	R	533	ASN
1	S	61	GLN
1	S	67	GLN
1	S	70	HIS
1	S	87	GLN
1	S	109	GLN
1	S	127	HIS
1	S	134	GLN
1	S	156	HIS
1	S	167	ASN
1	S	170	HIS
1	S	189	GLN
1	S	226	HIS
1	S	357	GLN
1	S	391	ASN
1	S	401	ASN
1	S	413	ASN
1	S	533	ASN
1	T	61	GLN
1	T	67	GLN
1	T	70	HIS
1	T	87	GLN
1	T	109	GLN
1	T	127	HIS
1	T	134	GLN
1	T	156	HIS
1	T	167	ASN
1	T	170	HIS
1	T	189	GLN
1	T	206	ASN
1	T	226	HIS
1	T	357	GLN
1	T	391	ASN
1	T	401	ASN

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Mol	Chain	Res	Type
1	T	413	ASN
1	T	533	ASN
1	U	61	GLN
1	U	67	GLN
1	U	70	HIS
1	U	87	GLN
1	U	109	GLN
1	U	127	HIS
1	U	134	GLN
1	U	156	HIS
1	U	167	ASN
1	U	170	HIS
1	U	189	GLN
1	U	226	HIS
1	U	357	GLN
1	U	391	ASN
1	U	401	ASN
1	U	413	ASN
1	U	533	ASN
1	V	61	GLN
1	V	67	GLN
1	V	70	HIS
1	V	87	GLN
1	V	109	GLN
1	V	127	HIS
1	V	134	GLN
1	V	156	HIS
1	V	167	ASN
1	V	170	HIS
1	V	189	GLN
1	V	226	HIS
1	V	357	GLN
1	V	391	ASN
1	V	401	ASN
1	V	413	ASN
1	V	533	ASN
1	W	61	GLN
1	W	67	GLN
1	W	70	HIS
1	W	87	GLN
1	W	109	GLN
1	W	127	HIS

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Mol	Chain	Res	Type
1	W	134	GLN
1	W	156	HIS
1	W	167	ASN
1	W	170	HIS
1	W	206	ASN
1	W	226	HIS
1	W	357	GLN
1	W	391	ASN
1	W	401	ASN
1	W	413	ASN
1	W	493	HIS
1	W	533	ASN
1	X	61	GLN
1	X	67	GLN
1	X	70	HIS
1	X	87	GLN
1	X	109	GLN
1	X	127	HIS
1	X	134	GLN
1	X	156	HIS
1	X	167	ASN
1	X	170	HIS
1	X	189	GLN
1	X	226	HIS
1	X	357	GLN
1	X	391	ASN
1	X	401	ASN
1	X	413	ASN
1	X	470	GLN
1	X	533	ASN
1	Y	61	GLN
1	Y	67	GLN
1	Y	70	HIS
1	Y	87	GLN
1	Y	109	GLN
1	Y	127	HIS
1	Y	134	GLN
1	Y	156	HIS
1	Y	167	ASN
1	Y	170	HIS
1	Y	189	GLN
1	Y	206	ASN

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Mol	Chain	Res	Type
1	Y	226	HIS
1	Y	357	GLN
1	Y	391	ASN
1	Y	401	ASN
1	Y	413	ASN
1	Y	533	ASN
1	Z	61	GLN
1	Z	67	GLN
1	Z	70	HIS
1	Z	87	GLN
1	Z	109	GLN
1	Z	127	HIS
1	Z	134	GLN
1	Z	156	HIS
1	Z	167	ASN
1	Z	170	HIS
1	Z	189	GLN
1	Z	226	HIS
1	Z	357	GLN
1	Z	391	ASN
1	Z	401	ASN
1	Z	413	ASN
1	Z	470	GLN
1	Z	533	ASN
1	a	61	GLN
1	a	67	GLN
1	a	70	HIS
1	a	87	GLN
1	a	109	GLN
1	a	127	HIS
1	a	134	GLN
1	a	156	HIS
1	a	167	ASN
1	a	170	HIS
1	a	189	GLN
1	a	206	ASN
1	a	226	HIS
1	a	357	GLN
1	a	391	ASN
1	a	401	ASN
1	a	413	ASN
1	a	533	ASN

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Mol	Chain	Res	Type
1	b	61	GLN
1	b	67	GLN
1	b	70	HIS
1	b	87	GLN
1	b	109	GLN
1	b	127	HIS
1	b	134	GLN
1	b	156	HIS
1	b	167	ASN
1	b	170	HIS
1	b	189	GLN
1	b	226	HIS
1	b	357	GLN
1	b	391	ASN
1	b	401	ASN
1	b	413	ASN
1	b	533	ASN
1	c	61	GLN
1	c	67	GLN
1	c	70	HIS
1	c	87	GLN
1	c	109	GLN
1	c	127	HIS
1	c	134	GLN
1	c	156	HIS
1	c	167	ASN
1	c	170	HIS
1	c	189	GLN
1	c	226	HIS
1	c	357	GLN
1	c	391	ASN
1	c	401	ASN
1	c	413	ASN
1	c	533	ASN
1	d	61	GLN
1	d	67	GLN
1	d	70	HIS
1	d	87	GLN
1	d	109	GLN
1	d	127	HIS
1	d	134	GLN
1	d	156	HIS

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Mol	Chain	Res	Type
1	d	167	ASN
1	d	170	HIS
1	d	189	GLN
1	d	226	HIS
1	d	357	GLN
1	d	391	ASN
1	d	401	ASN
1	d	413	ASN
1	d	533	ASN
1	e	61	GLN
1	e	67	GLN
1	e	70	HIS
1	e	87	GLN
1	e	109	GLN
1	e	127	HIS
1	e	134	GLN
1	e	156	HIS
1	e	167	ASN
1	e	170	HIS
1	e	189	GLN
1	e	206	ASN
1	e	226	HIS
1	e	357	GLN
1	e	391	ASN
1	e	401	ASN
1	e	413	ASN
1	e	533	ASN
1	f	61	GLN
1	f	67	GLN
1	f	70	HIS
1	f	87	GLN
1	f	109	GLN
1	f	127	HIS
1	f	134	GLN
1	f	156	HIS
1	f	167	ASN
1	f	170	HIS
1	f	189	GLN
1	f	226	HIS
1	f	357	GLN
1	f	391	ASN
1	f	401	ASN

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Mol	Chain	Res	Type
1	f	413	ASN
1	f	533	ASN
1	g	61	GLN
1	g	67	GLN
1	g	70	HIS
1	g	87	GLN
1	g	109	GLN
1	g	127	HIS
1	g	134	GLN
1	g	156	HIS
1	g	170	HIS
1	g	189	GLN
1	g	206	ASN
1	g	226	HIS
1	g	357	GLN
1	g	391	ASN
1	g	401	ASN
1	g	413	ASN
1	g	533	ASN
1	h	61	GLN
1	h	67	GLN
1	h	70	HIS
1	h	87	GLN
1	h	109	GLN
1	h	127	HIS
1	h	134	GLN
1	h	156	HIS
1	h	167	ASN
1	h	170	HIS
1	h	189	GLN
1	h	226	HIS
1	h	357	GLN
1	h	391	ASN
1	h	401	ASN
1	h	413	ASN
1	h	533	ASN
1	i	61	GLN
1	i	67	GLN
1	i	70	HIS
1	i	87	GLN
1	i	109	GLN
1	i	127	HIS

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Mol	Chain	Res	Type
1	i	134	GLN
1	i	156	HIS
1	i	167	ASN
1	i	170	HIS
1	i	189	GLN
1	i	226	HIS
1	i	357	GLN
1	i	391	ASN
1	i	401	ASN
1	i	413	ASN
1	i	533	ASN
1	j	61	GLN
1	j	67	GLN
1	j	70	HIS
1	j	87	GLN
1	j	109	GLN
1	j	127	HIS
1	j	134	GLN
1	j	156	HIS
1	j	167	ASN
1	j	170	HIS
1	j	189	GLN
1	j	206	ASN
1	j	226	HIS
1	j	357	GLN
1	j	391	ASN
1	j	401	ASN
1	j	413	ASN
1	j	533	ASN
1	k	61	GLN
1	k	67	GLN
1	k	70	HIS
1	k	87	GLN
1	k	109	GLN
1	k	127	HIS
1	k	134	GLN
1	k	156	HIS
1	k	167	ASN
1	k	170	HIS
1	k	189	GLN
1	k	206	ASN
1	k	226	HIS

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Mol	Chain	Res	Type
1	k	357	GLN
1	k	391	ASN
1	k	401	ASN
1	k	413	ASN
1	k	533	ASN
1	l	61	GLN
1	l	67	GLN
1	l	70	HIS
1	l	87	GLN
1	l	109	GLN
1	l	127	HIS
1	l	134	GLN
1	l	156	HIS
1	l	167	ASN
1	l	170	HIS
1	l	189	GLN
1	l	226	HIS
1	l	357	GLN
1	l	391	ASN
1	l	401	ASN
1	l	413	ASN
1	l	464	ASN
1	l	533	ASN
1	m	61	GLN
1	m	67	GLN
1	m	70	HIS
1	m	87	GLN
1	m	109	GLN
1	m	127	HIS
1	m	134	GLN
1	m	156	HIS
1	m	167	ASN
1	m	170	HIS
1	m	189	GLN
1	m	206	ASN
1	m	226	HIS
1	m	357	GLN
1	m	391	ASN
1	m	401	ASN
1	m	413	ASN
1	m	533	ASN
1	n	61	GLN

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Mol	Chain	Res	Type
1	n	67	GLN
1	n	70	HIS
1	n	87	GLN
1	n	109	GLN
1	n	127	HIS
1	n	134	GLN
1	n	156	HIS
1	n	167	ASN
1	n	170	HIS
1	n	189	GLN
1	n	206	ASN
1	n	226	HIS
1	n	357	GLN
1	n	391	ASN
1	n	401	ASN
1	n	413	ASN
1	n	533	ASN
1	o	61	GLN
1	o	67	GLN
1	o	70	HIS
1	o	87	GLN
1	o	109	GLN
1	o	127	HIS
1	o	134	GLN
1	o	156	HIS
1	o	167	ASN
1	o	170	HIS
1	o	189	GLN
1	o	226	HIS
1	o	357	GLN
1	o	391	ASN
1	o	401	ASN
1	o	413	ASN
1	o	470	GLN
1	o	533	ASN
1	p	61	GLN
1	p	67	GLN
1	p	70	HIS
1	p	87	GLN
1	p	109	GLN
1	p	127	HIS
1	p	134	GLN

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Mol	Chain	Res	Type
1	p	156	HIS
1	p	167	ASN
1	p	170	HIS
1	p	189	GLN
1	p	226	HIS
1	p	357	GLN
1	p	391	ASN
1	p	401	ASN
1	p	413	ASN
1	p	533	ASN
1	q	61	GLN
1	q	67	GLN
1	q	70	HIS
1	q	87	GLN
1	q	109	GLN
1	q	127	HIS
1	q	134	GLN
1	q	156	HIS
1	q	167	ASN
1	q	170	HIS
1	q	226	HIS
1	q	357	GLN
1	q	391	ASN
1	q	401	ASN
1	q	413	ASN
1	q	533	ASN
1	r	61	GLN
1	r	67	GLN
1	r	70	HIS
1	r	87	GLN
1	r	109	GLN
1	r	127	HIS
1	r	134	GLN
1	r	156	HIS
1	r	167	ASN
1	r	170	HIS
1	r	189	GLN
1	r	226	HIS
1	r	357	GLN
1	r	391	ASN
1	r	401	ASN
1	r	413	ASN

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Mol	Chain	Res	Type
1	r	533	ASN
1	s	61	GLN
1	s	67	GLN
1	s	70	HIS
1	s	87	GLN
1	s	109	GLN
1	s	127	HIS
1	s	134	GLN
1	s	156	HIS
1	s	170	HIS
1	s	189	GLN
1	s	226	HIS
1	s	357	GLN
1	s	391	ASN
1	s	401	ASN
1	s	413	ASN
1	s	533	ASN
1	t	61	GLN
1	t	67	GLN
1	t	70	HIS
1	t	87	GLN
1	t	109	GLN
1	t	127	HIS
1	t	134	GLN
1	t	156	HIS
1	t	170	HIS
1	t	189	GLN
1	t	206	ASN
1	t	226	HIS
1	t	357	GLN
1	t	391	ASN
1	t	401	ASN
1	t	413	ASN
1	t	533	ASN
1	u	61	GLN
1	u	67	GLN
1	u	70	HIS
1	u	87	GLN
1	u	109	GLN
1	u	127	HIS
1	u	134	GLN
1	u	156	HIS

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Mol	Chain	Res	Type
1	u	167	ASN
1	u	170	HIS
1	u	189	GLN
1	u	206	ASN
1	u	226	HIS
1	u	357	GLN
1	u	391	ASN
1	u	401	ASN
1	u	413	ASN
1	u	533	ASN
1	v	61	GLN
1	v	67	GLN
1	v	70	HIS
1	v	87	GLN
1	v	109	GLN
1	v	127	HIS
1	v	134	GLN
1	v	156	HIS
1	v	167	ASN
1	v	170	HIS
1	v	206	ASN
1	v	226	HIS
1	v	357	GLN
1	v	391	ASN
1	v	401	ASN
1	v	413	ASN
1	v	533	ASN
1	w	61	GLN
1	w	67	GLN
1	w	70	HIS
1	w	87	GLN
1	w	109	GLN
1	w	127	HIS
1	w	134	GLN
1	w	156	HIS
1	w	167	ASN
1	w	170	HIS
1	w	189	GLN
1	w	226	HIS
1	w	357	GLN
1	w	391	ASN
1	w	401	ASN

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Mol	Chain	Res	Type
1	w	413	ASN
1	w	493	HIS
1	w	533	ASN
1	x	61	GLN
1	x	67	GLN
1	x	70	HIS
1	x	87	GLN
1	x	109	GLN
1	x	127	HIS
1	x	134	GLN
1	x	156	HIS
1	x	167	ASN
1	x	170	HIS
1	x	189	GLN
1	x	206	ASN
1	x	226	HIS
1	x	357	GLN
1	x	391	ASN
1	x	401	ASN
1	x	413	ASN
1	x	533	ASN
1	y	61	GLN
1	y	67	GLN
1	y	70	HIS
1	y	87	GLN
1	y	109	GLN
1	y	127	HIS
1	y	134	GLN
1	y	156	HIS
1	y	167	ASN
1	y	170	HIS
1	y	189	GLN
1	y	206	ASN
1	y	226	HIS
1	y	357	GLN
1	y	391	ASN
1	y	401	ASN
1	y	413	ASN
1	y	533	ASN
1	z	61	GLN
1	z	67	GLN
1	z	70	HIS

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Mol	Chain	Res	Type
1	z	87	GLN
1	z	109	GLN
1	z	127	HIS
1	z	134	GLN
1	z	156	HIS
1	z	167	ASN
1	z	170	HIS
1	z	226	HIS
1	z	357	GLN
1	z	391	ASN
1	z	401	ASN
1	z	413	ASN
1	z	533	ASN
1	1	61	GLN
1	1	67	GLN
1	1	70	HIS
1	1	87	GLN
1	1	109	GLN
1	1	127	HIS
1	1	134	GLN
1	1	156	HIS
1	1	167	ASN
1	1	170	HIS
1	1	189	GLN
1	1	206	ASN
1	1	226	HIS
1	1	357	GLN
1	1	391	ASN
1	1	401	ASN
1	1	413	ASN
1	1	533	ASN
1	2	61	GLN
1	2	67	GLN
1	2	70	HIS
1	2	87	GLN
1	2	109	GLN
1	2	127	HIS
1	2	134	GLN
1	2	156	HIS
1	2	167	ASN
1	2	170	HIS
1	2	189	GLN

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Mol	Chain	Res	Type
1	2	226	HIS
1	2	357	GLN
1	2	391	ASN
1	2	401	ASN
1	2	413	ASN
1	2	533	ASN
1	3	61	GLN
1	3	67	GLN
1	3	70	HIS
1	3	87	GLN
1	3	109	GLN
1	3	127	HIS
1	3	134	GLN
1	3	156	HIS
1	3	167	ASN
1	3	170	HIS
1	3	189	GLN
1	3	206	ASN
1	3	226	HIS
1	3	357	GLN
1	3	391	ASN
1	3	401	ASN
1	3	413	ASN
1	3	533	ASN
1	4	61	GLN
1	4	67	GLN
1	4	70	HIS
1	4	87	GLN
1	4	109	GLN
1	4	127	HIS
1	4	134	GLN
1	4	156	HIS
1	4	167	ASN
1	4	170	HIS
1	4	206	ASN
1	4	226	HIS
1	4	357	GLN
1	4	391	ASN
1	4	401	ASN
1	4	413	ASN
1	4	533	ASN
1	5	61	GLN

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Mol	Chain	Res	Type
1	5	67	GLN
1	5	70	HIS
1	5	87	GLN
1	5	109	GLN
1	5	127	HIS
1	5	134	GLN
1	5	156	HIS
1	5	167	ASN
1	5	170	HIS
1	5	189	GLN
1	5	206	ASN
1	5	226	HIS
1	5	357	GLN
1	5	391	ASN
1	5	401	ASN
1	5	413	ASN
1	5	470	GLN
1	5	533	ASN
1	6	61	GLN
1	6	67	GLN
1	6	70	HIS
1	6	87	GLN
1	6	109	GLN
1	6	127	HIS
1	6	134	GLN
1	6	156	HIS
1	6	167	ASN
1	6	170	HIS
1	6	206	ASN
1	6	226	HIS
1	6	357	GLN
1	6	391	ASN
1	6	401	ASN
1	6	413	ASN
1	6	493	HIS
1	6	533	ASN
1	7	61	GLN
1	7	67	GLN
1	7	70	HIS
1	7	87	GLN
1	7	109	GLN
1	7	127	HIS

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Mol	Chain	Res	Type
1	7	134	GLN
1	7	156	HIS
1	7	167	ASN
1	7	170	HIS
1	7	189	GLN
1	7	206	ASN
1	7	226	HIS
1	7	357	GLN
1	7	391	ASN
1	7	401	ASN
1	7	413	ASN
1	7	533	ASN
1	8	61	GLN
1	8	67	GLN
1	8	70	HIS
1	8	87	GLN
1	8	109	GLN
1	8	127	HIS
1	8	134	GLN
1	8	156	HIS
1	8	167	ASN
1	8	170	HIS
1	8	189	GLN
1	8	226	HIS
1	8	357	GLN
1	8	391	ASN
1	8	401	ASN
1	8	413	ASN
1	8	533	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

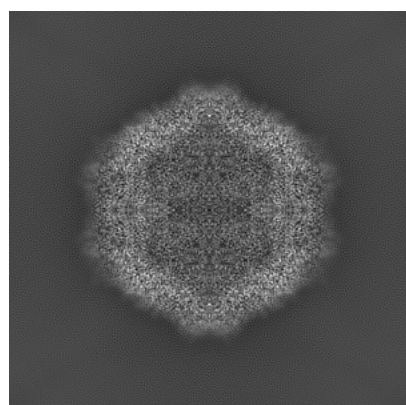
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23107. These allow visual inspection of the internal detail of the map and identification of artifacts.

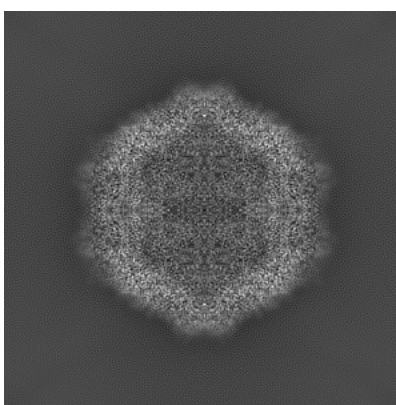
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

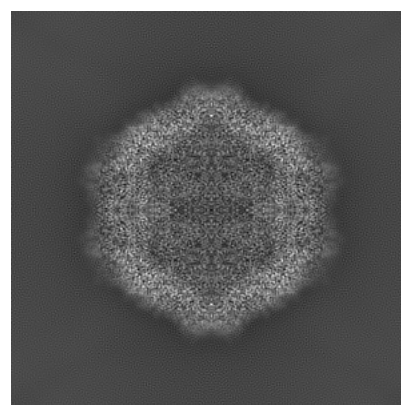
6.1.1 Primary map



X



Y

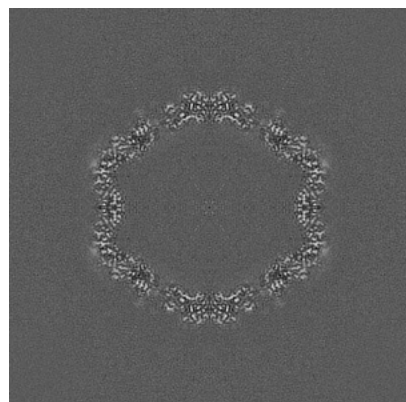


Z

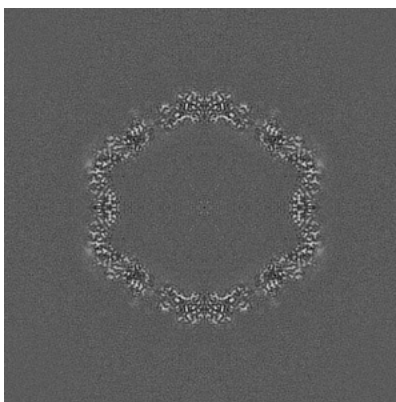
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

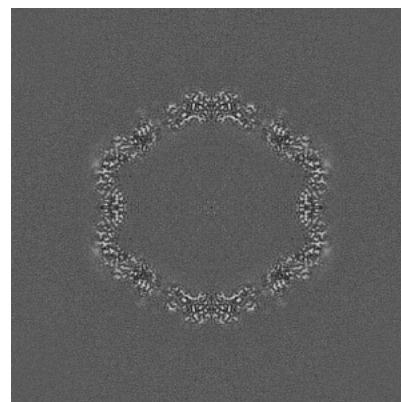
6.2.1 Primary map



X Index: 225



Y Index: 225

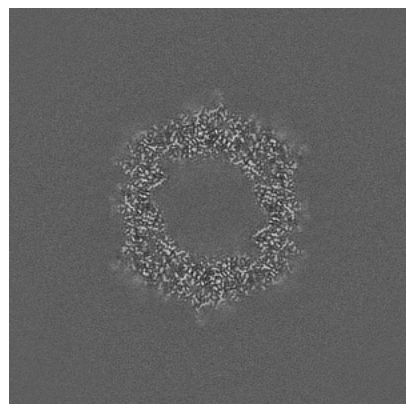


Z Index: 225

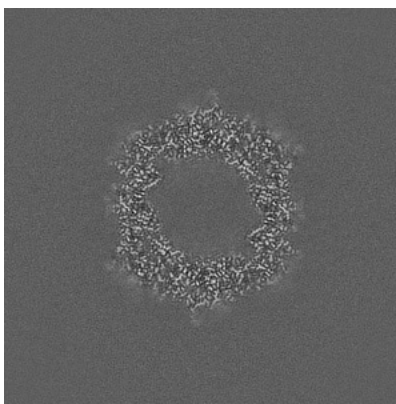
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

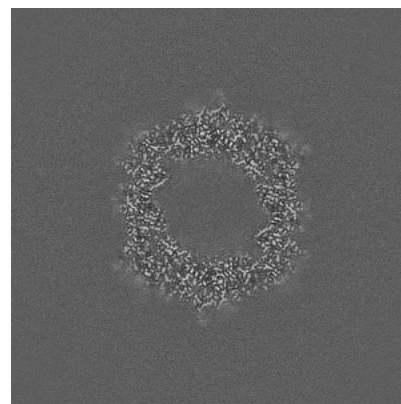
6.3.1 Primary map



X Index: 302



Y Index: 302

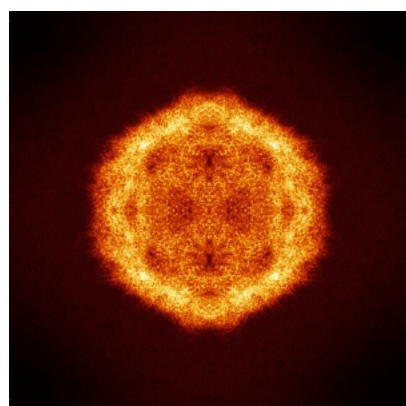


Z Index: 302

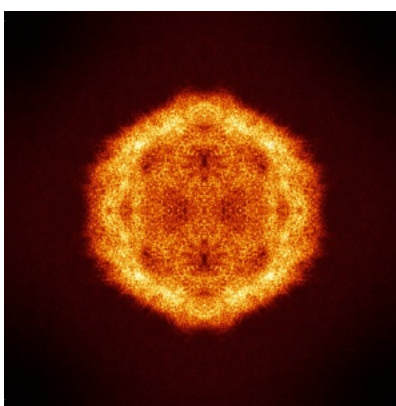
The images above show the largest variance slices of the map in three orthogonal directions.

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

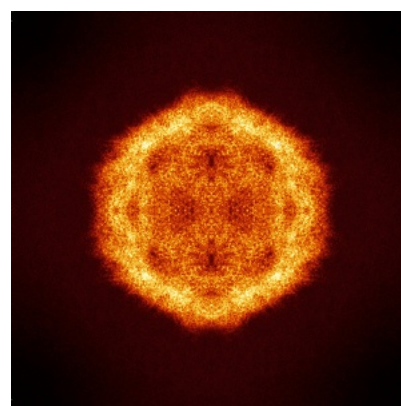
6.4.1 Primary map



X



Y

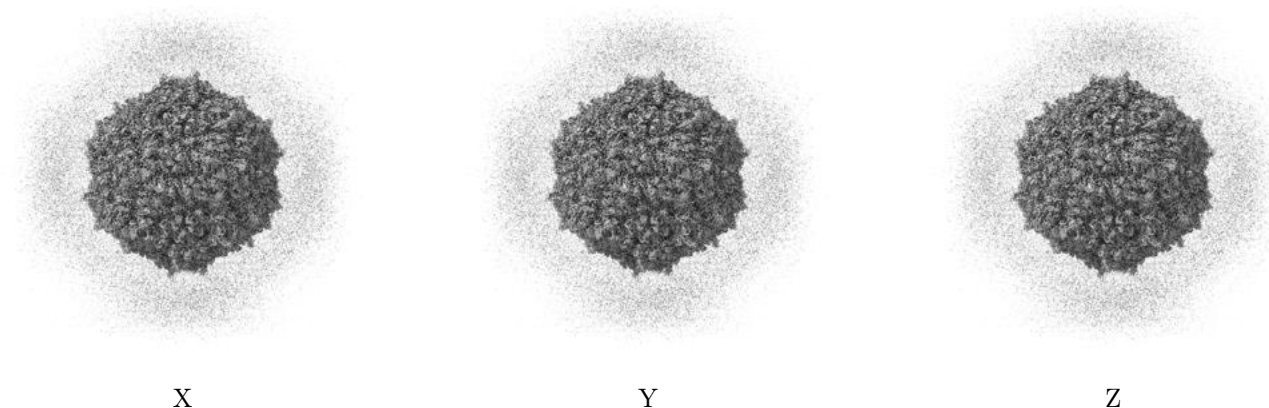


Z

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 1.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

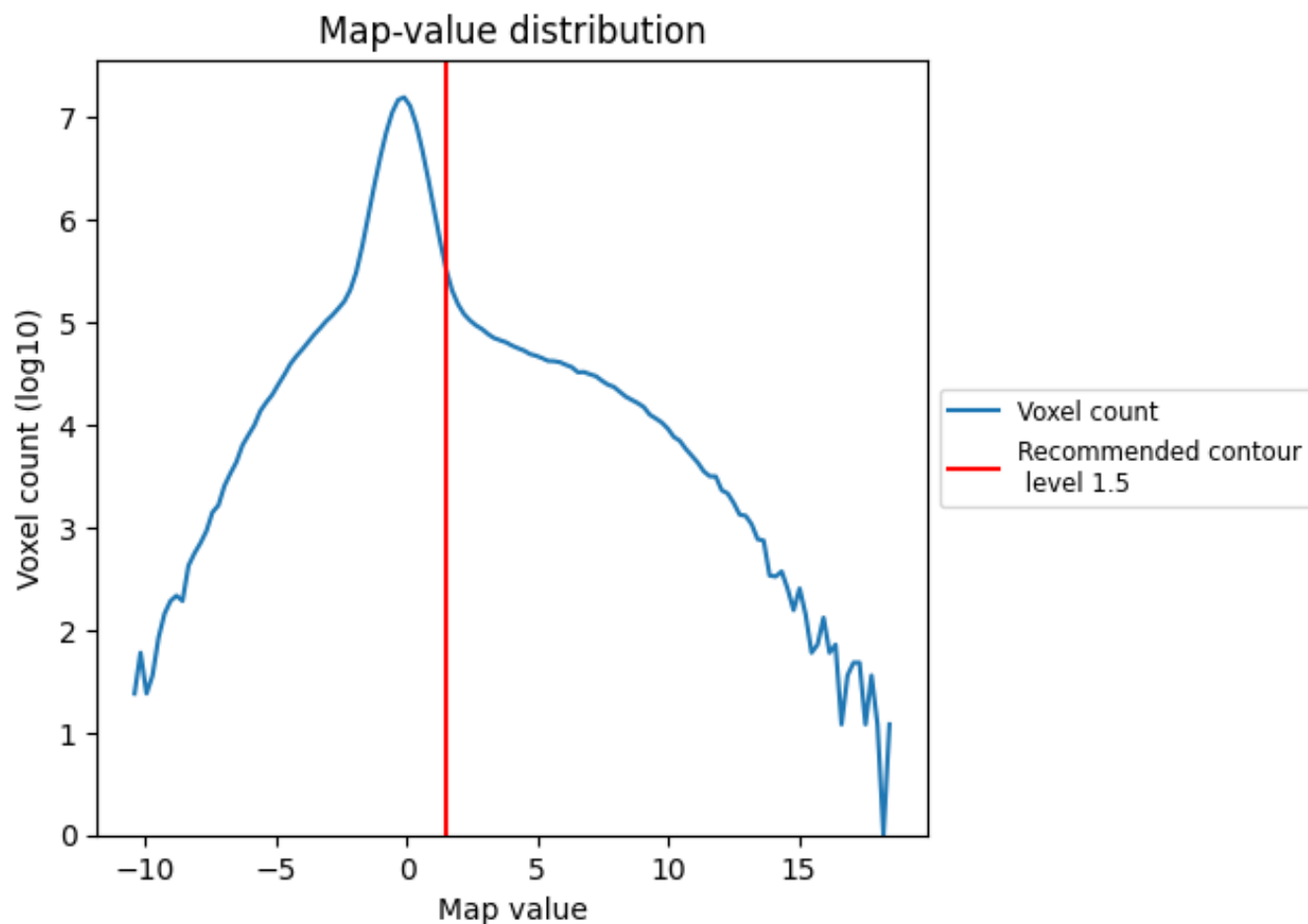
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

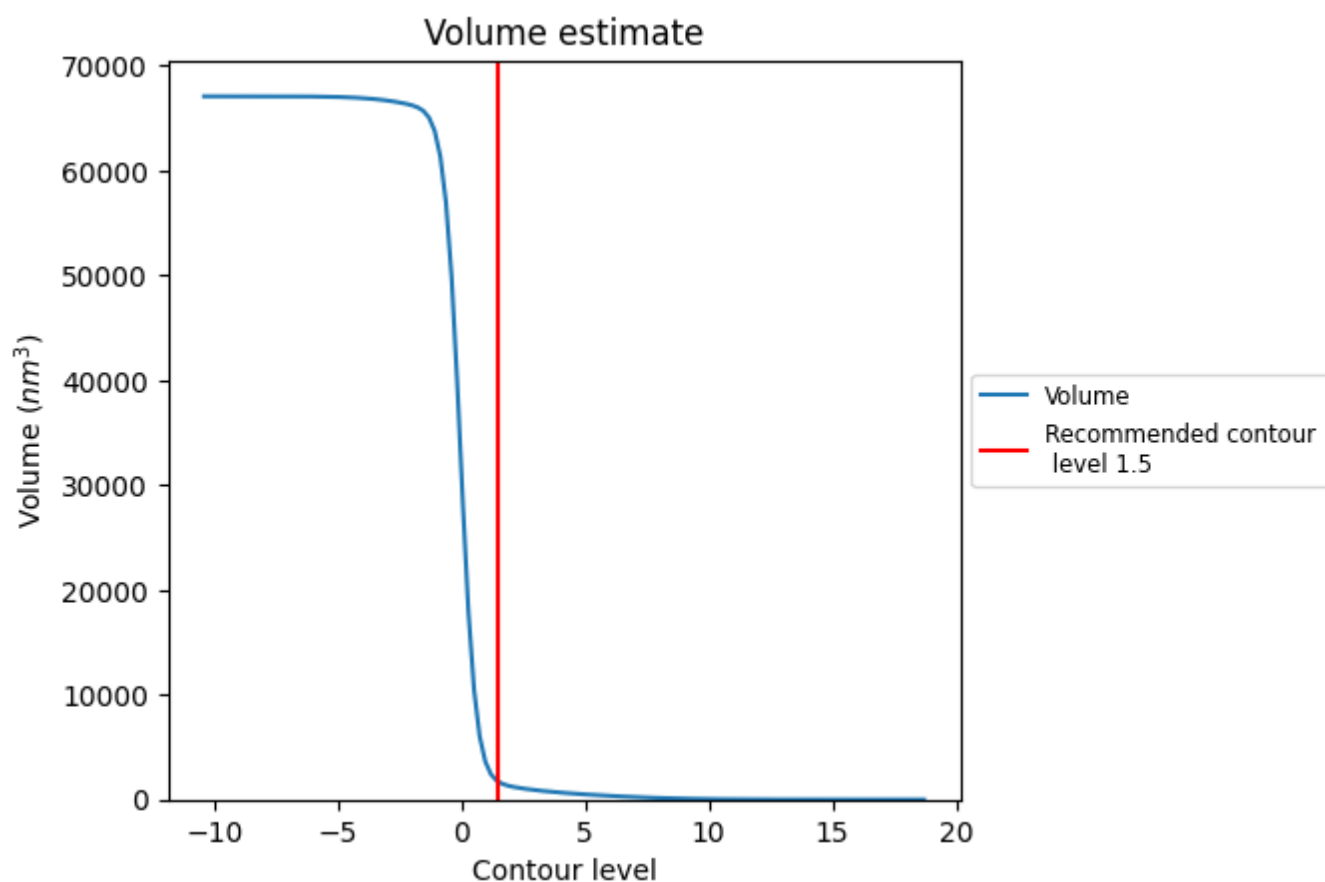
This section contains the results of statistical analysis of the map.

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.

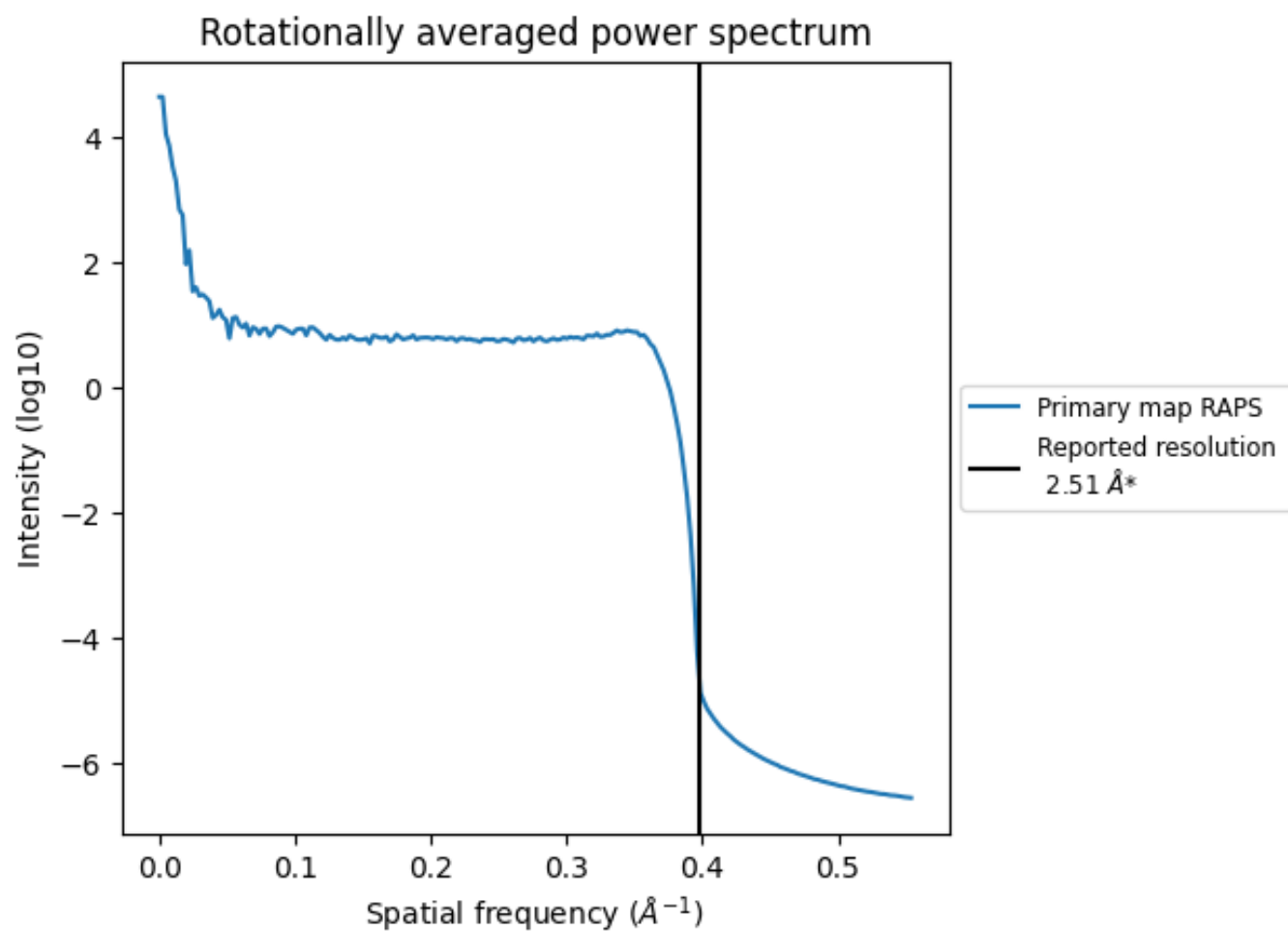
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1711 nm³; this corresponds to an approximate mass of 1546 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 0.398 Å⁻¹

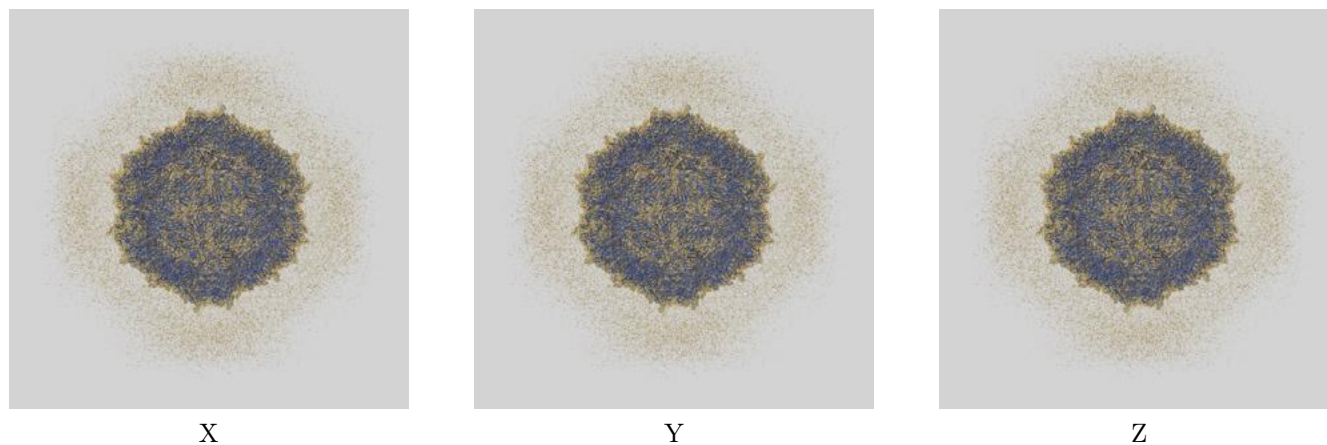
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

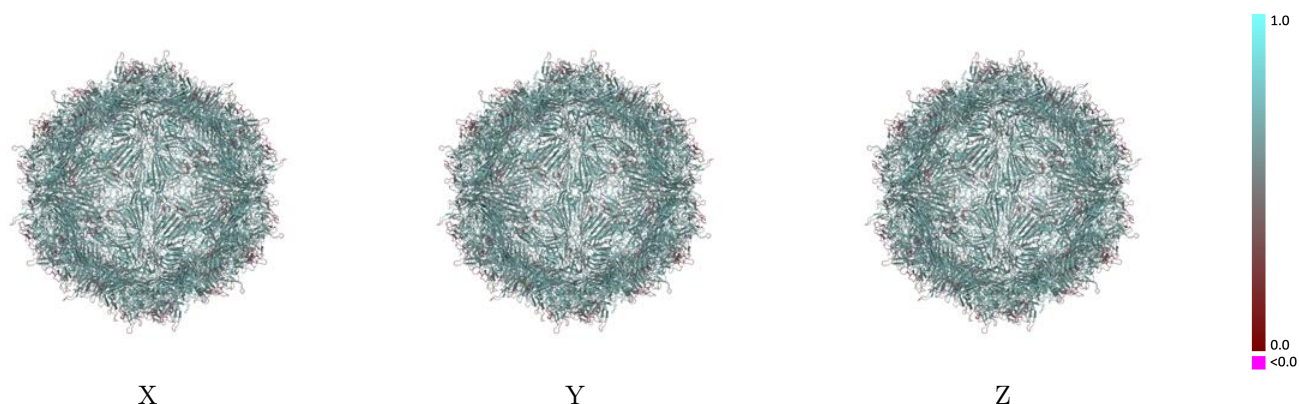
This section contains information regarding the fit between EMDB map EMD-23107 and PDB model 7L0X. Per-residue inclusion information can be found in section [3](#) on page [10](#).

9.1 Map-model overlay [i](#)



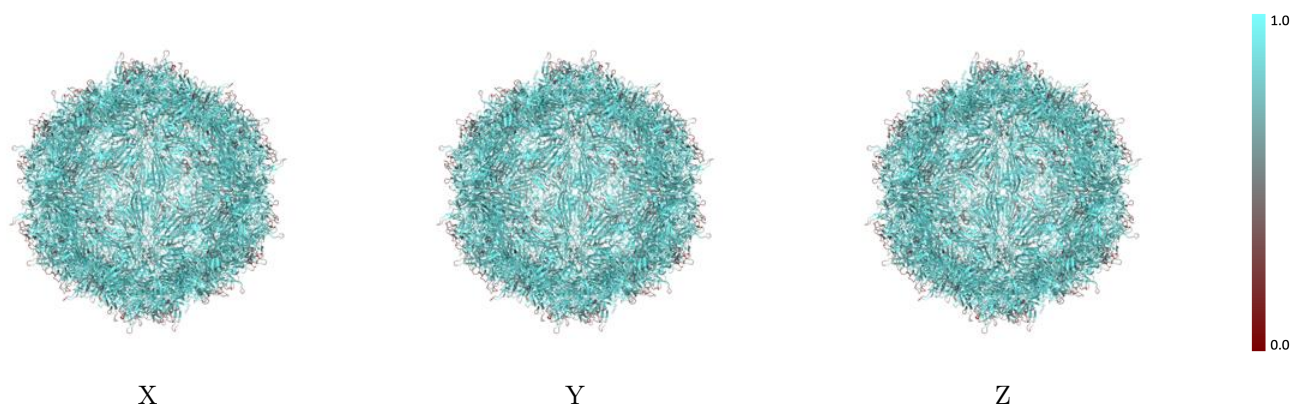
The images above show the 3D surface view of the map at the recommended contour level 1.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



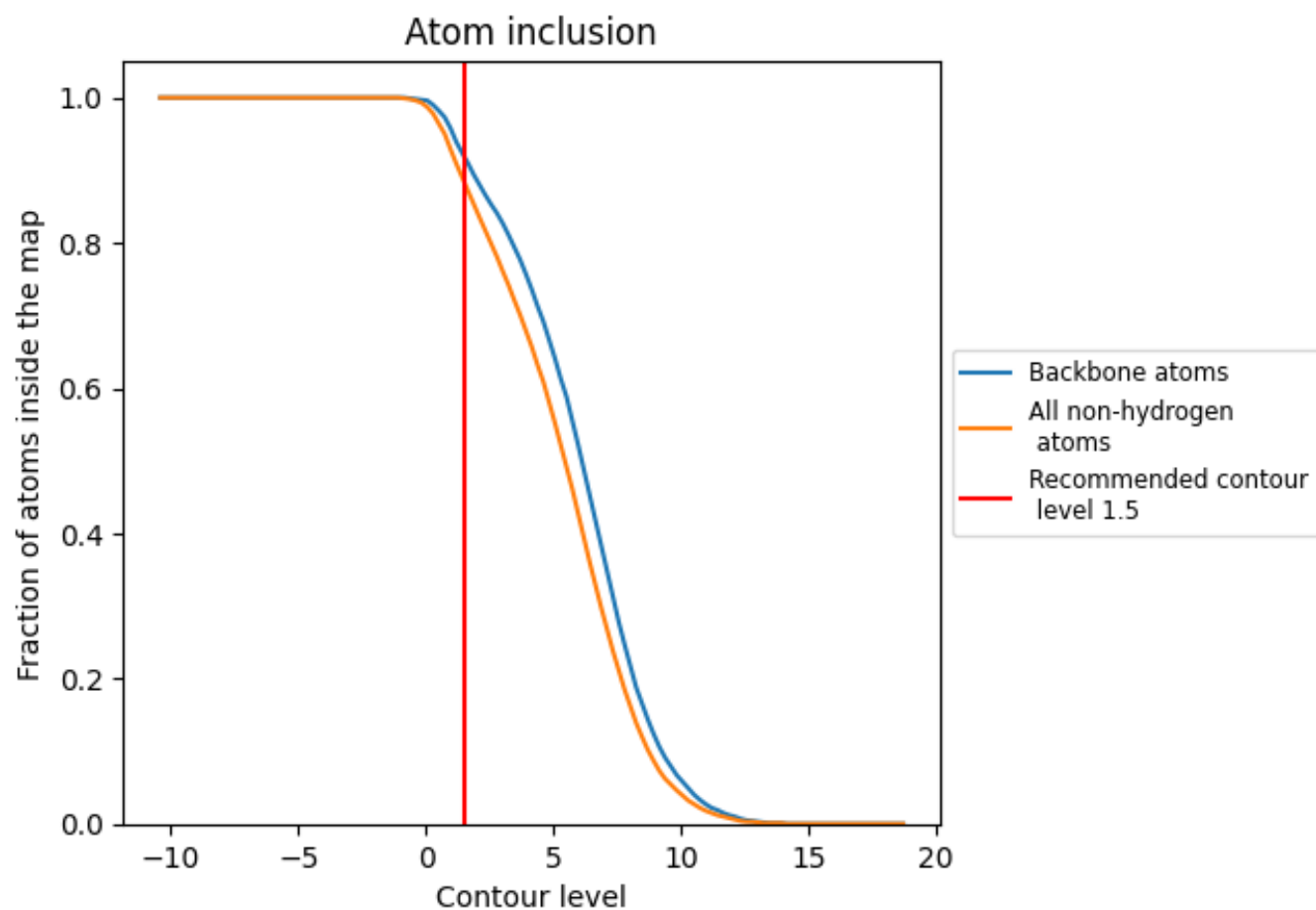
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (1.5).

9.4 Atom inclusion [i](#)



At the recommended contour level, 92% of all backbone atoms, 88% 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 (1.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8840	 0.6160
1	 0.8840	 0.6170
2	 0.8840	 0.6160
3	 0.8830	 0.6150
4	 0.8830	 0.6160
5	 0.8850	 0.6160
6	 0.8850	 0.6160
7	 0.8850	 0.6160
8	 0.8850	 0.6170
A	 0.8830	 0.6150
B	 0.8840	 0.6180
C	 0.8830	 0.6160
D	 0.8850	 0.6160
E	 0.8850	 0.6160
F	 0.8830	 0.6150
G	 0.8850	 0.6170
H	 0.8850	 0.6160
I	 0.8830	 0.6160
J	 0.8850	 0.6170
K	 0.8830	 0.6170
L	 0.8840	 0.6160
M	 0.8850	 0.6170
N	 0.8850	 0.6170
O	 0.8850	 0.6160
P	 0.8850	 0.6170
Q	 0.8830	 0.6170
R	 0.8840	 0.6170
S	 0.8840	 0.6160
T	 0.8830	 0.6160
U	 0.8840	 0.6170
V	 0.8830	 0.6160
W	 0.8850	 0.6170
X	 0.8850	 0.6170
Y	 0.8850	 0.6170
Z	 0.8850	 0.6170



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Chain	Atom inclusion	Q-score
a	 0.8830	 0.6150
b	 0.8830	 0.6150
c	 0.8830	 0.6150
d	 0.8830	 0.6160
e	 0.8830	 0.6150
f	 0.8830	 0.6150
g	 0.8830	 0.6150
h	 0.8850	 0.6170
i	 0.8850	 0.6170
j	 0.8850	 0.6170
k	 0.8850	 0.6160
l	 0.8850	 0.6160
m	 0.8830	 0.6170
n	 0.8830	 0.6150
o	 0.8850	 0.6170
p	 0.8830	 0.6160
q	 0.8840	 0.6170
r	 0.8840	 0.6170
s	 0.8840	 0.6160
t	 0.8850	 0.6160
u	 0.8830	 0.6160
v	 0.8830	 0.6160
w	 0.8850	 0.6160
x	 0.8830	 0.6150
y	 0.8830	 0.6140
z	 0.8840	 0.6170