



Full wwPDB EM Validation Report ⓘ

Jun 24, 2025 – 11:24 AM EDT

PDB ID : 9N5M / pdb_00009n5m
EMDB ID : EMD-48927
Title : The Turkey Parvovirus Capsid structure
Authors : Hsi, J.; Mietzsch, M.; McKenna, R.
Deposited on : 2025-02-04
Resolution : 2.35 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) : 2.44

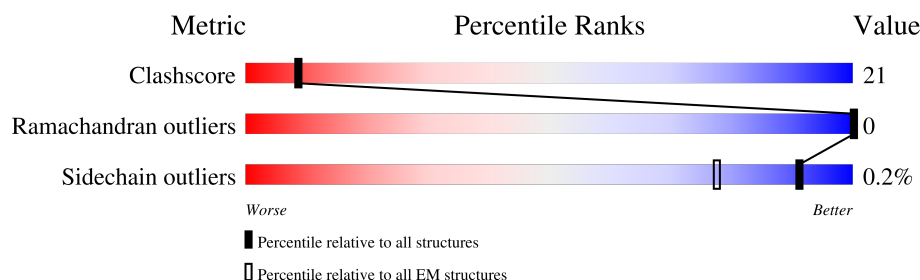
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.35 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	535	
1	2	535	
1	3	535	
1	4	535	
1	5	535	
1	6	535	
1	7	535	
1	8	535	


























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Mol	Chain	Length	Quality of chain
1	A	535	 55% 39% • 5%
1	B	535	 55% 39% • 5%
1	C	535	 56% 39% • 5%
1	D	535	 56% 38% • 5%
1	E	535	 55% 39% • 5%
1	F	535	 55% 39% • 5%
1	G	535	 55% 39% • 5%
1	H	535	 56% 38% • 5%
1	I	535	 55% 39% • 5%
1	J	535	 55% 39% 5%
1	K	535	 55% 39% • 5%
1	L	535	 55% 39% • 5%
1	M	535	 54% 40% 5%
1	N	535	 55% 39% • 5%
1	O	535	 55% 39% • 5%
1	P	535	 55% 39% • 5%
1	Q	535	 55% 39% • 5%
1	R	535	 55% 39% 5%
1	S	535	 54% 40% • 5%
1	T	535	 55% 39% • 5%
1	U	535	 55% 39% • 5%
1	V	535	 54% 40% • 5%
1	W	535	 56% 39% • 5%
1	X	535	 56% 39% • 5%
1	Y	535	 55% 39% • 5%

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Mol	Chain	Length	Quality of chain
1	Z	535	
1	a	535	
1	b	535	
1	c	535	
1	d	535	
1	e	535	
1	f	535	
1	g	535	
1	h	535	
1	i	535	
1	j	535	
1	k	535	
1	l	535	
1	m	535	
1	n	535	
1	o	535	
1	p	535	
1	q	535	
1	r	535	
1	s	535	
1	t	535	
1	u	535	
1	v	535	
1	w	535	
1	x	535	

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Mol	Chain	Length	Quality of chain
1	y	535	<div><div></div><div>55%</div><div>39%</div><div>• 5%</div></div>
1	z	535	<div><div></div><div>55%</div><div>39%</div><div>• 5%</div></div>

2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 243900 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	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	B	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	C	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	D	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	E	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	F	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	G	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	H	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	I	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	J	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	K	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	L	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	M	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	N	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	O	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	P	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	Q	506	Total 4063	C 2563	N 697	O 778	S 25	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	S	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	T	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	U	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	V	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	W	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	X	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	Y	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	Z	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	a	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	b	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	c	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	d	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	e	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	f	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	g	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	h	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	i	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	j	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	k	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	l	506	Total 4063	C 2563	N 697	O 778	S 25	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	n	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	o	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	p	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	q	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	r	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	s	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	t	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	u	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	v	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	w	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	x	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	y	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	z	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	1	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	2	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	3	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	4	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	5	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	6	506	Total 4063	C 2563	N 697	O 778	S 25	0	0
1	7	506	Total 4063	C 2563	N 697	O 778	S 25	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	506	Total 4063	C 2563	N 697	O 778	S 25	0	0

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		AltConf
2	A	2	Total 2	Mg 2	0
2	B	2	Total 2	Mg 2	0
2	C	2	Total 2	Mg 2	0
2	D	2	Total 2	Mg 2	0
2	E	2	Total 2	Mg 2	0
2	F	2	Total 2	Mg 2	0
2	G	2	Total 2	Mg 2	0
2	H	2	Total 2	Mg 2	0
2	I	2	Total 2	Mg 2	0
2	J	2	Total 2	Mg 2	0
2	K	2	Total 2	Mg 2	0
2	L	2	Total 2	Mg 2	0
2	M	2	Total 2	Mg 2	0
2	N	2	Total 2	Mg 2	0
2	O	2	Total 2	Mg 2	0
2	P	2	Total 2	Mg 2	0
2	Q	2	Total 2	Mg 2	0
2	R	2	Total 2	Mg 2	0

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Mol	Chain	Residues	Atoms		AltConf
			Total	Mg	
2	S	2	2	2	0
2	T	2	2	2	0
2	U	2	2	2	0
2	V	2	2	2	0
2	W	2	2	2	0
2	X	2	2	2	0
2	Y	2	2	2	0
2	Z	2	2	2	0
2	a	2	2	2	0
2	b	2	2	2	0
2	c	2	2	2	0
2	d	2	2	2	0
2	e	2	2	2	0
2	f	2	2	2	0
2	g	2	2	2	0
2	h	2	2	2	0
2	i	2	2	2	0
2	j	2	2	2	0
2	k	2	2	2	0
2	l	2	2	2	0
2	m	2	2	2	0

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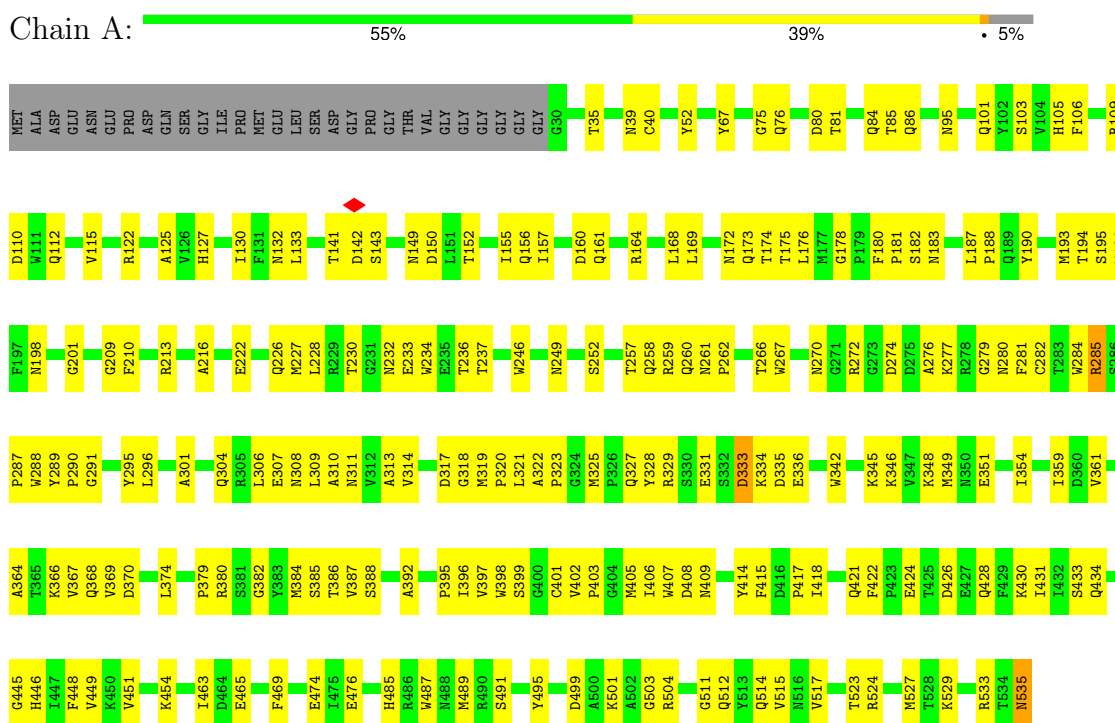
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Mol	Chain	Residues	Atoms		AltConf
2	n	2	Total 2	Mg 2	0
2	o	2	Total 2	Mg 2	0
2	p	2	Total 2	Mg 2	0
2	q	2	Total 2	Mg 2	0
2	r	2	Total 2	Mg 2	0
2	s	2	Total 2	Mg 2	0
2	t	2	Total 2	Mg 2	0
2	u	2	Total 2	Mg 2	0
2	v	2	Total 2	Mg 2	0
2	w	2	Total 2	Mg 2	0
2	x	2	Total 2	Mg 2	0
2	y	2	Total 2	Mg 2	0
2	z	2	Total 2	Mg 2	0
2	1	2	Total 2	Mg 2	0
2	2	2	Total 2	Mg 2	0
2	3	2	Total 2	Mg 2	0
2	4	2	Total 2	Mg 2	0
2	5	2	Total 2	Mg 2	0
2	6	2	Total 2	Mg 2	0
2	7	2	Total 2	Mg 2	0
2	8	2	Total 2	Mg 2	0

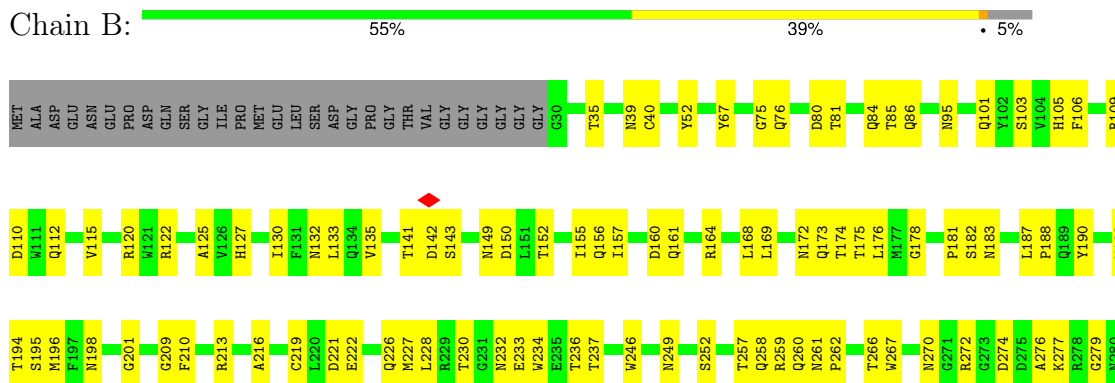
3 Residue-property plots

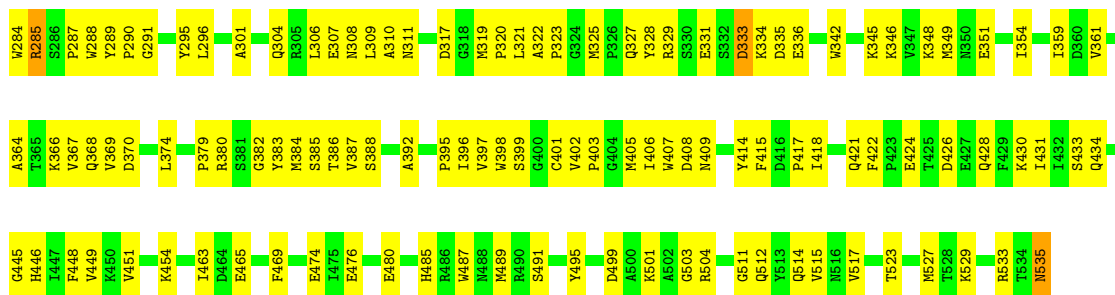
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: VP2



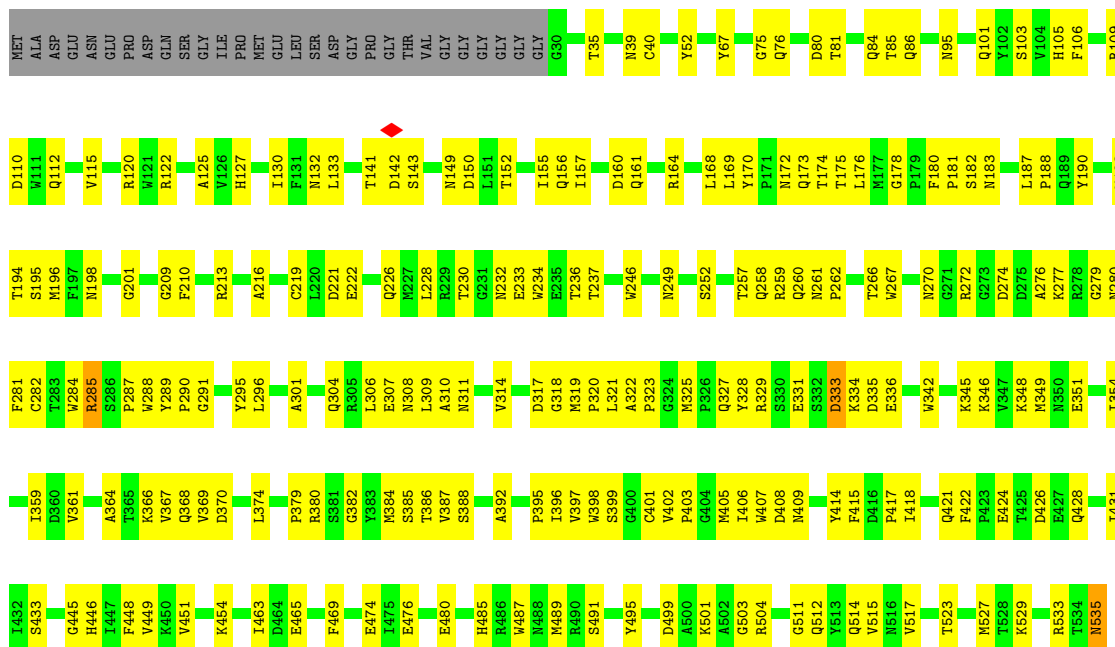
• Molecule 1: VP2





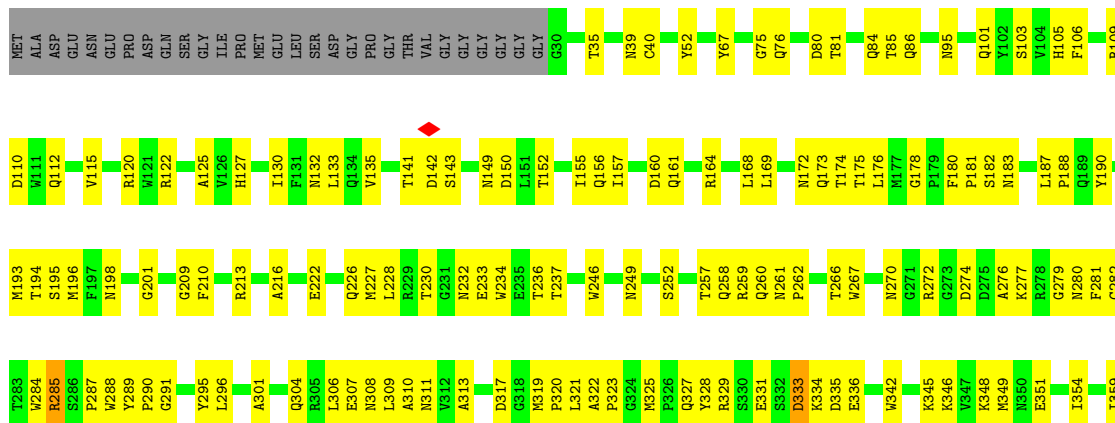
• Molecule 1: VP2

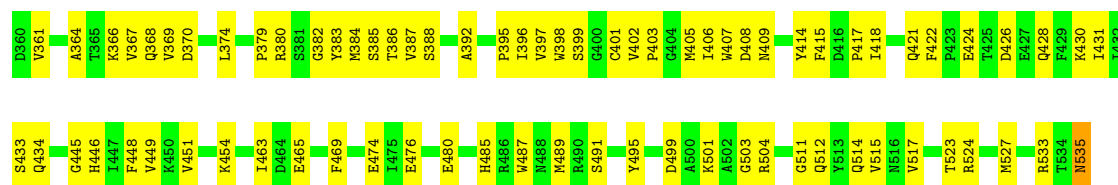
Chain E: 55% 39% 5%



• Molecule 1: VP2

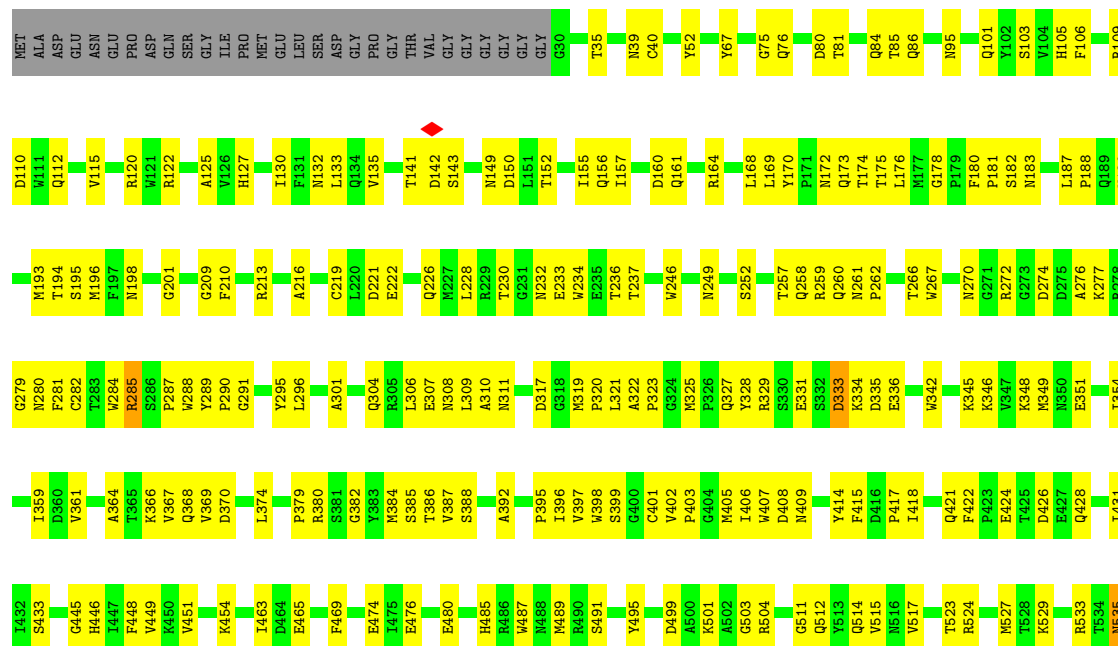
Chain F: 55% 39% 5%





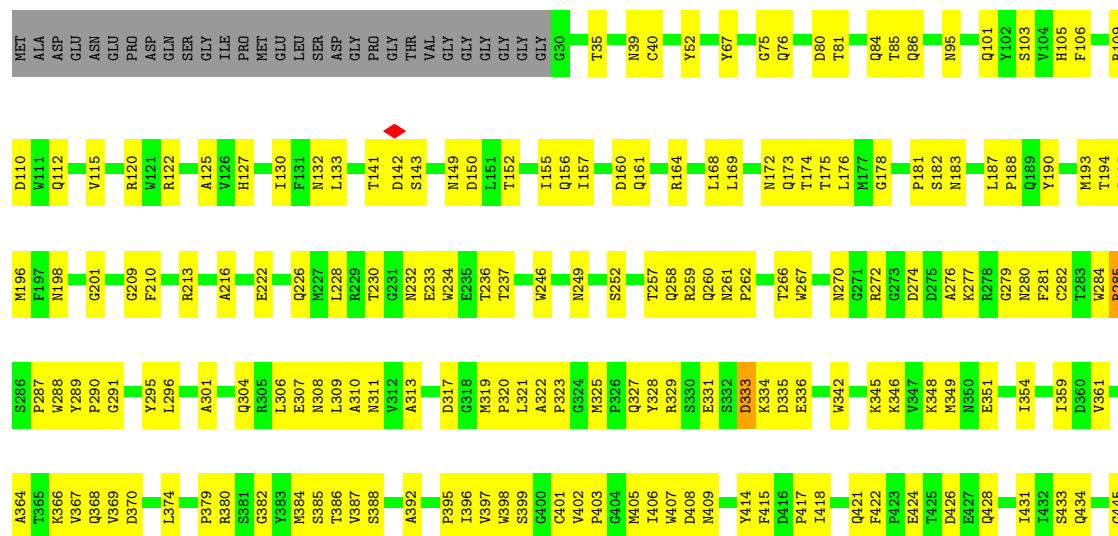
• Molecule 1: VP2

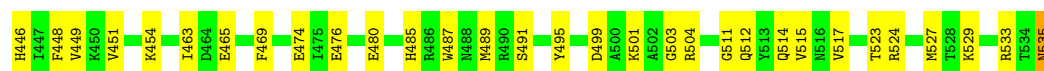
Chain G: 55% 39% 5%



• Molecule 1: VP2

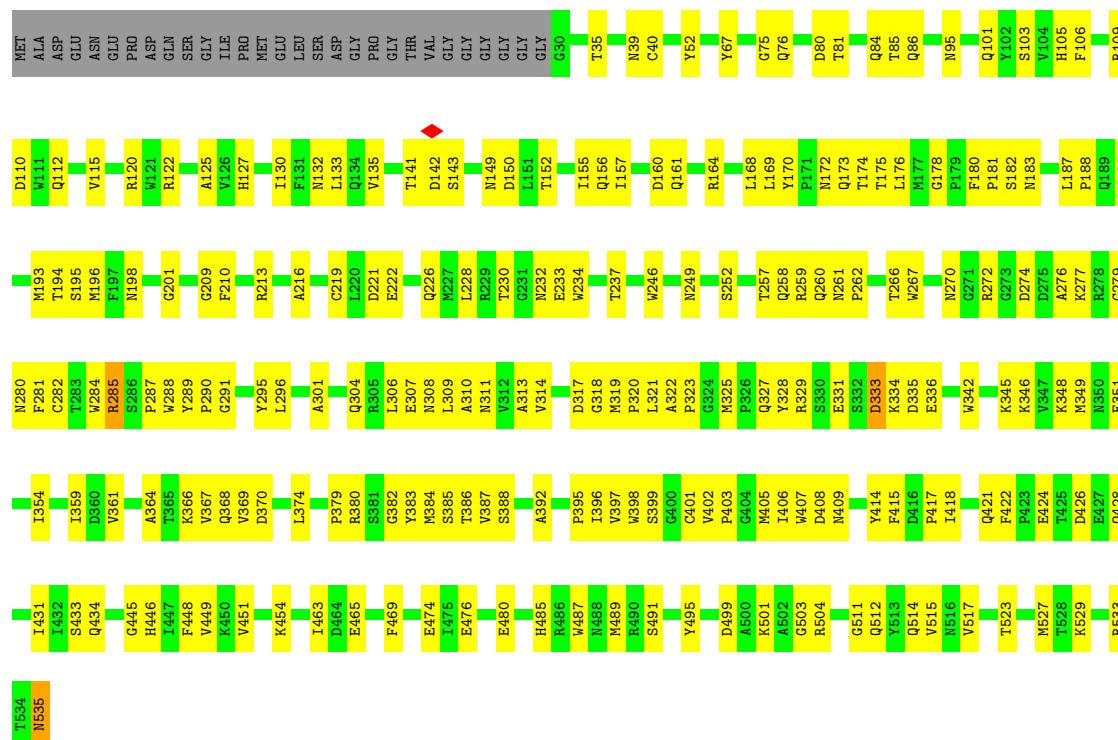
Chain H: 56% 38% 5%





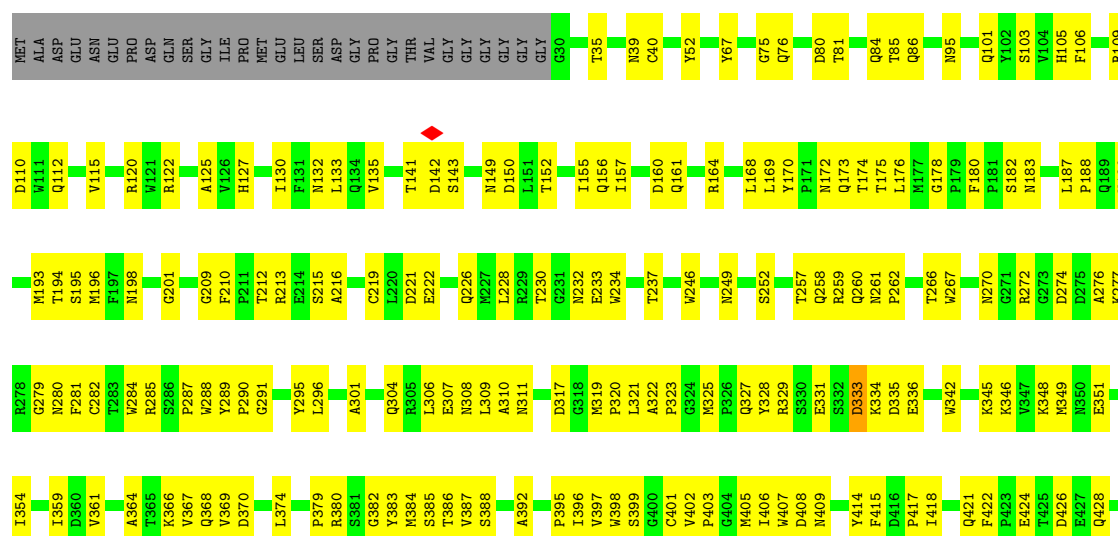
• Molecule 1: VP2

Chain I: 55% 39% 5%



• Molecule 1: VP2

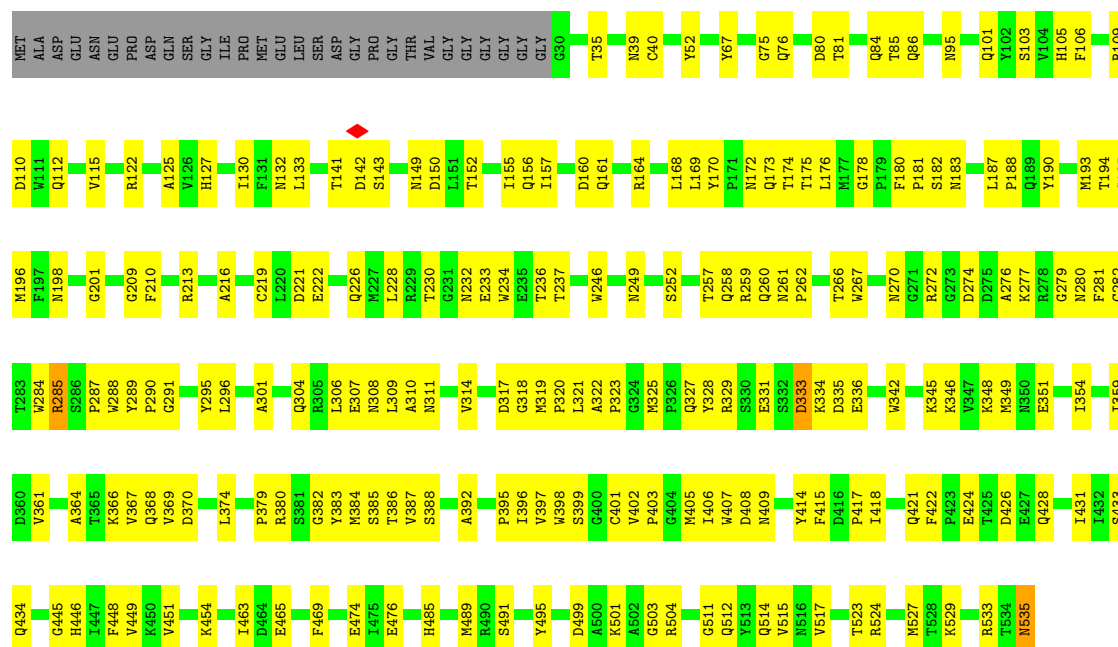
Chain J: 55% 39% 5%





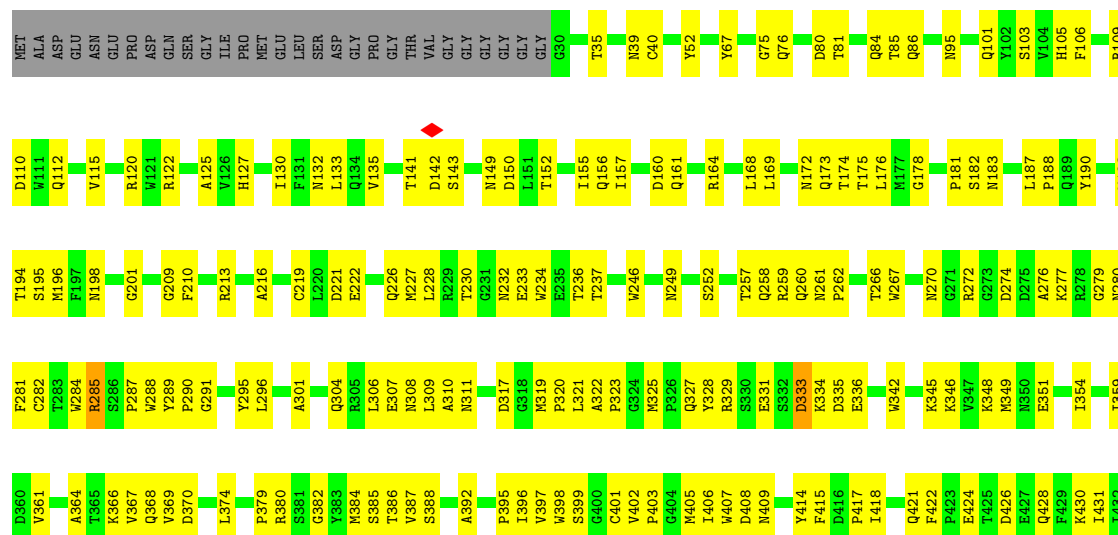
• Molecule 1: VP2

Chain K: 55% 39% 5%



• Molecule 1: VP2

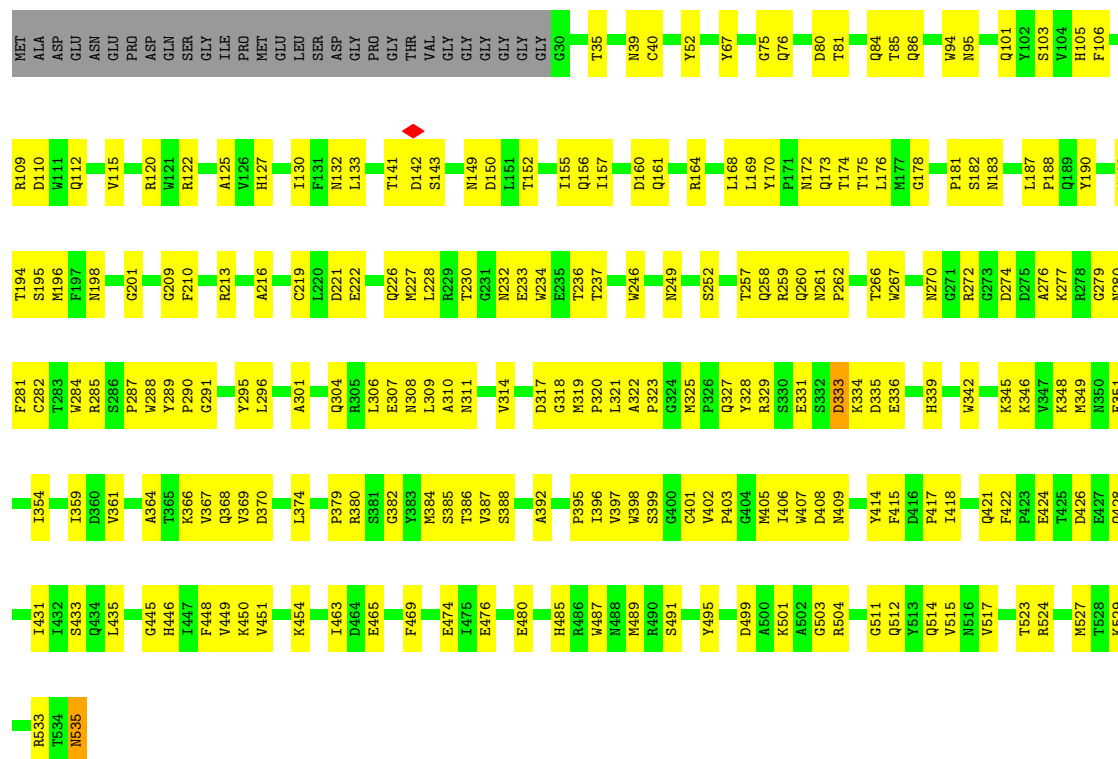
Chain L: 55% 39% 5%





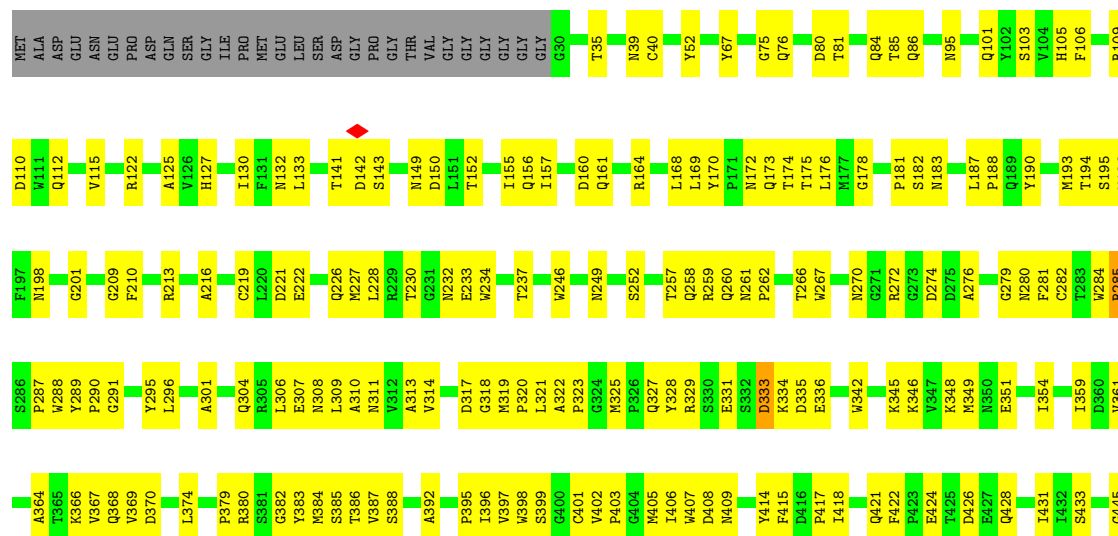
• Molecule 1: VP2

Chain M: 54% 40% 5%



• Molecule 1: VP2

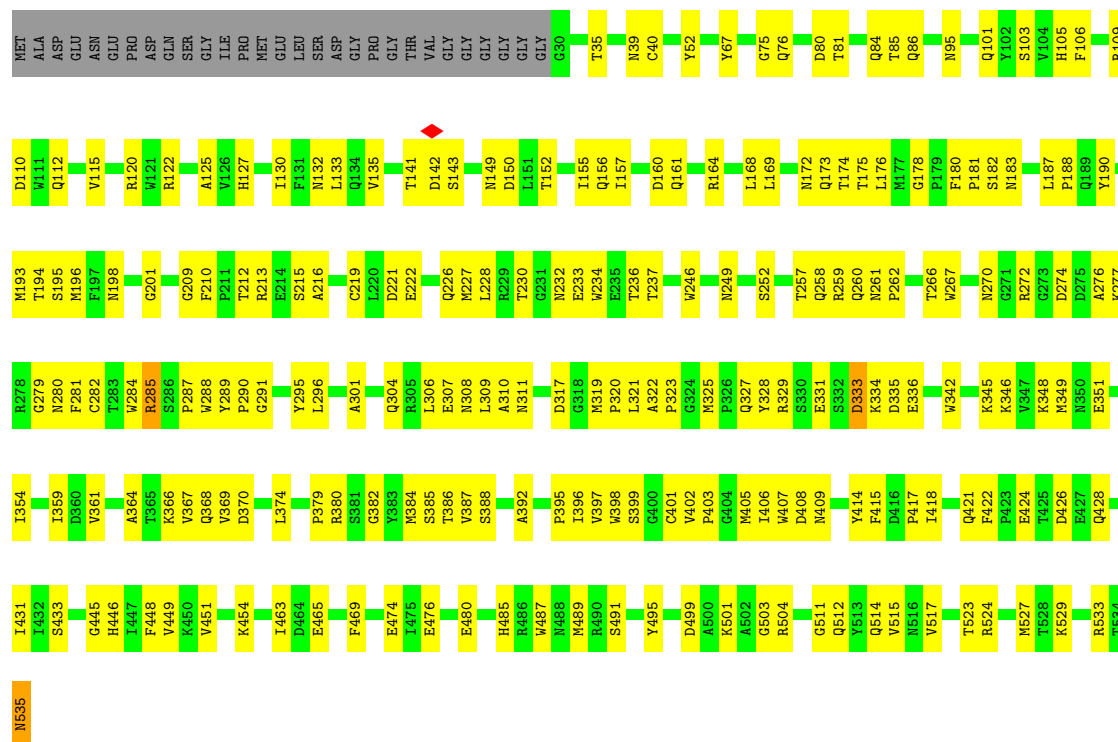
Chain N: 55% 39% 5%





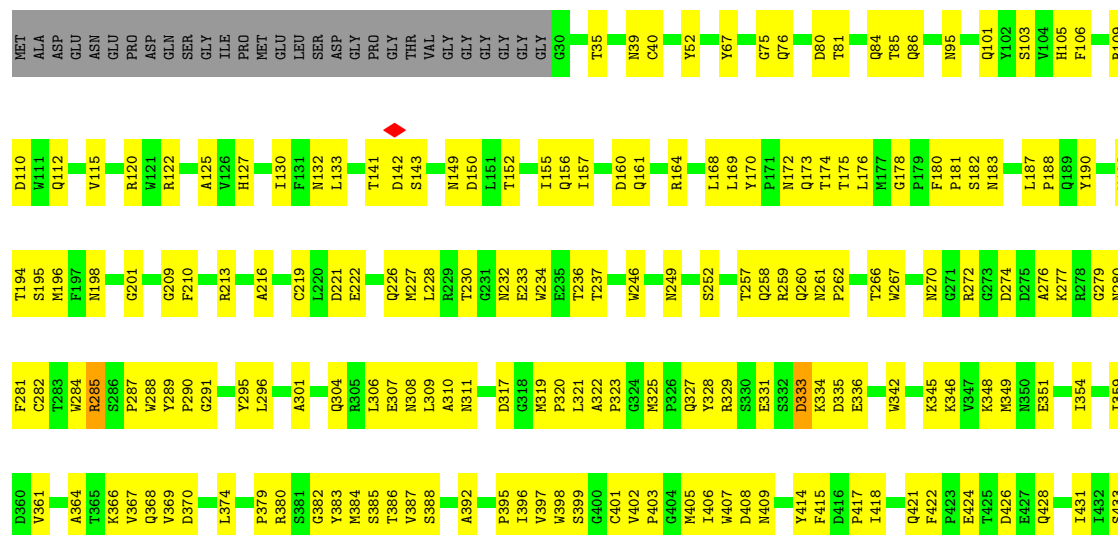
• Molecule 1: VP2

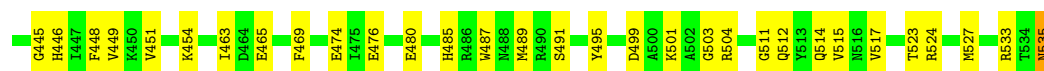
Chain O: 55% 39% 5%



• Molecule 1: VP2

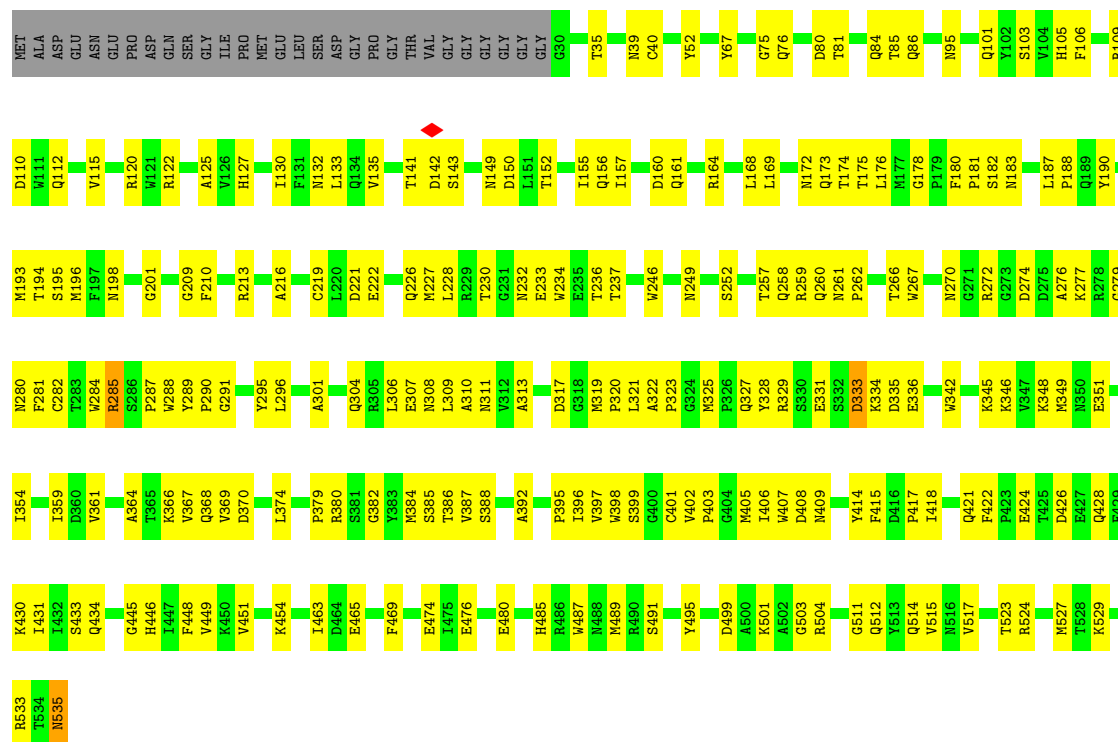
Chain P: 55% 39% 5%





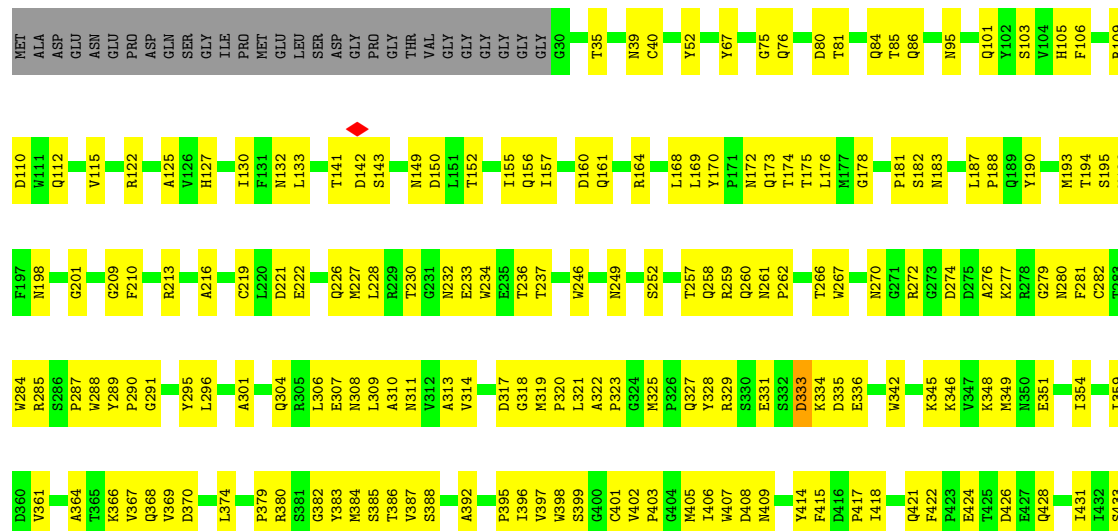
• Molecule 1: VP2

Chain Q: 55% 39% 5%



• Molecule 1: VP2

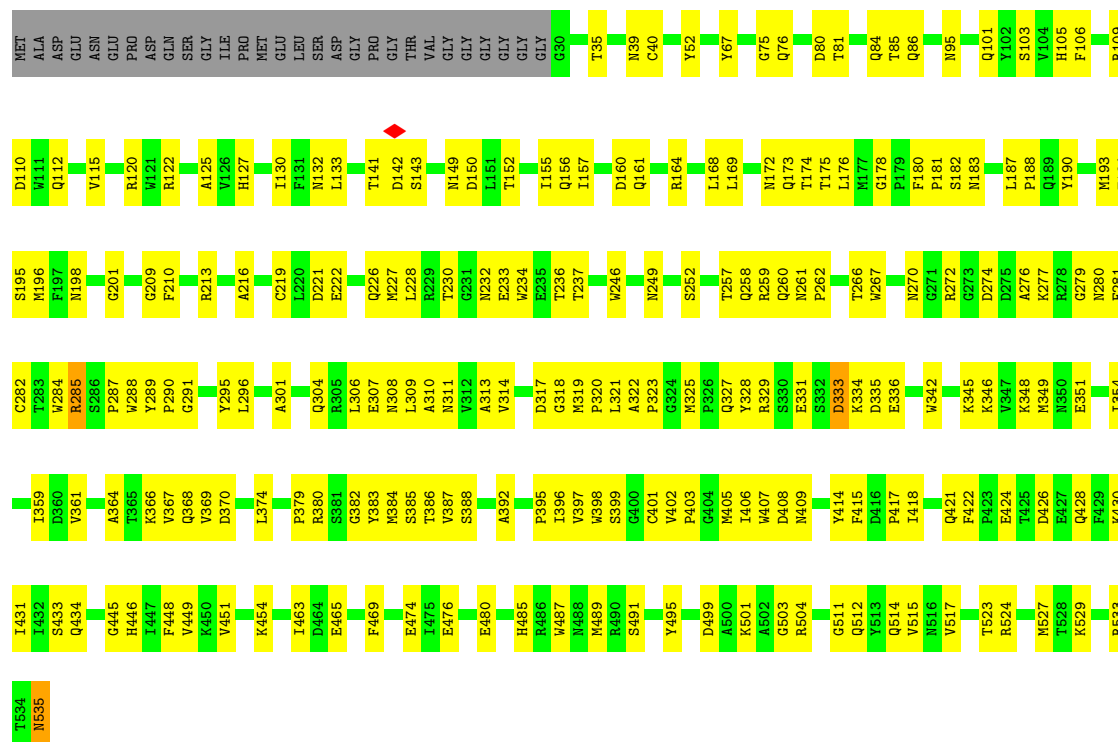
Chain R: 55% 39% 5%





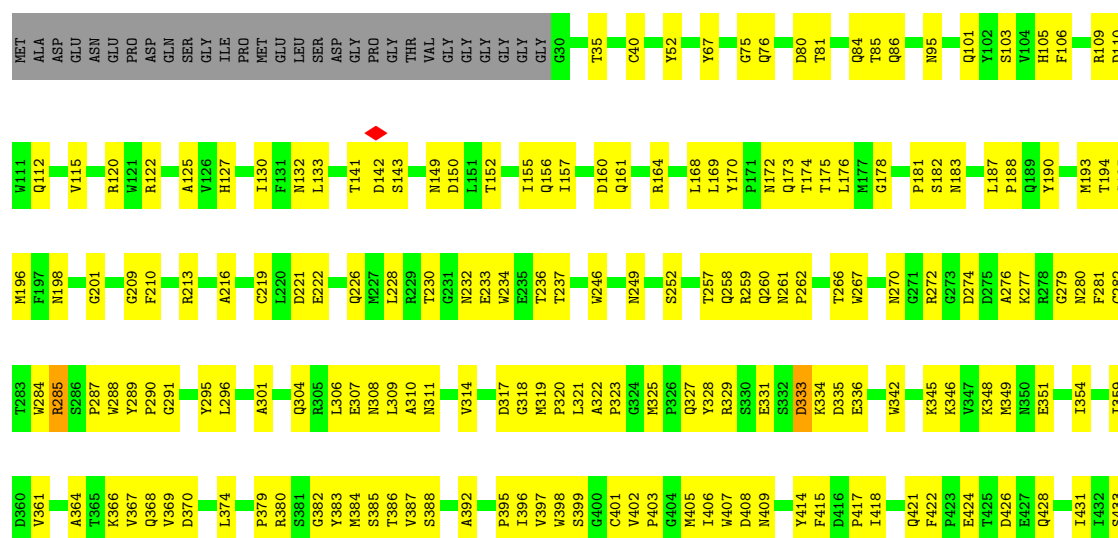
• Molecule 1: VP2

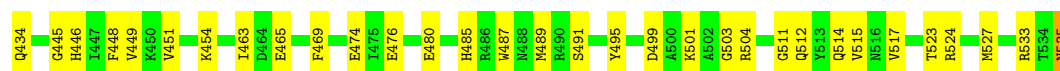
Chain S: 54% 40% 5%



• Molecule 1: VP2

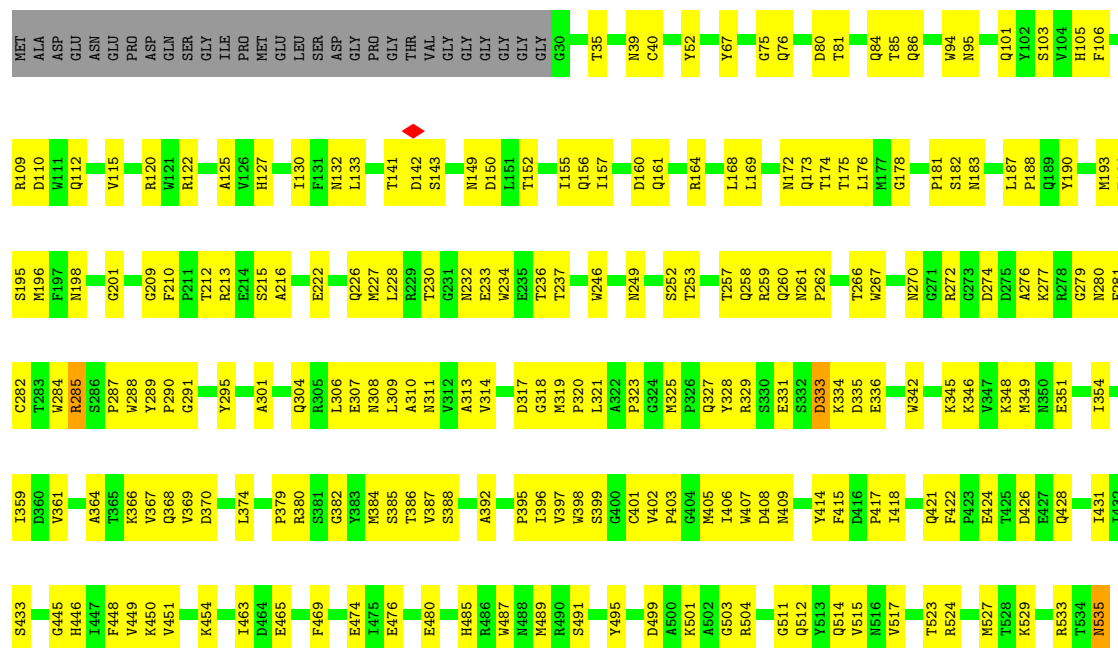
Chain T: 55% 39% 5%





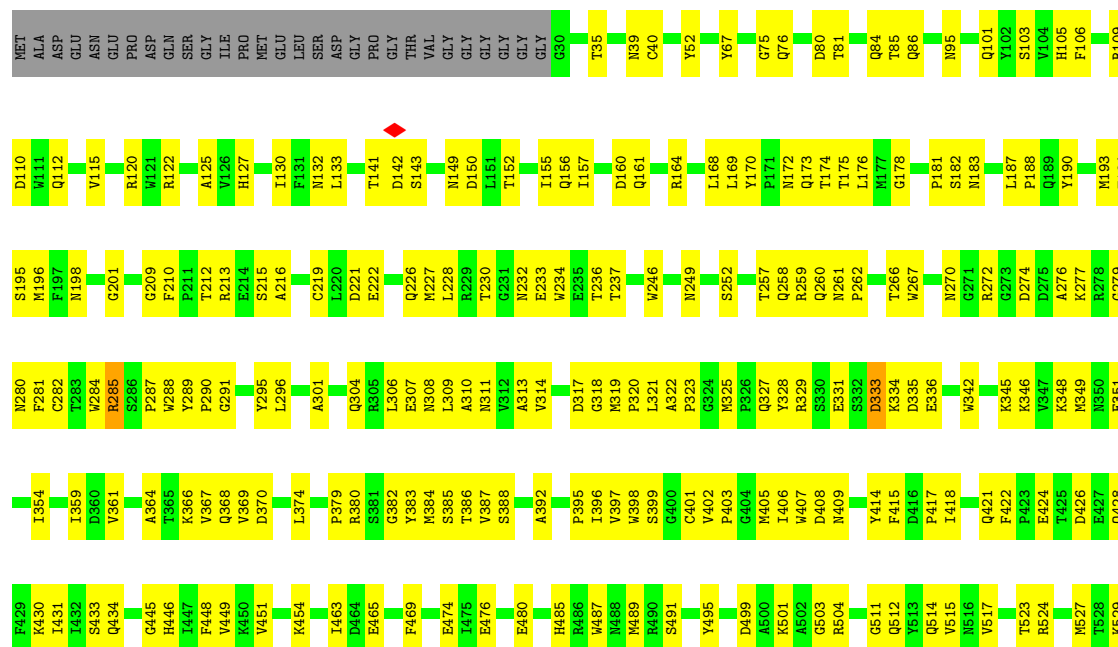
• Molecule 1: VP2

Chain U: 55% 39% 5%



• Molecule 1: VP2

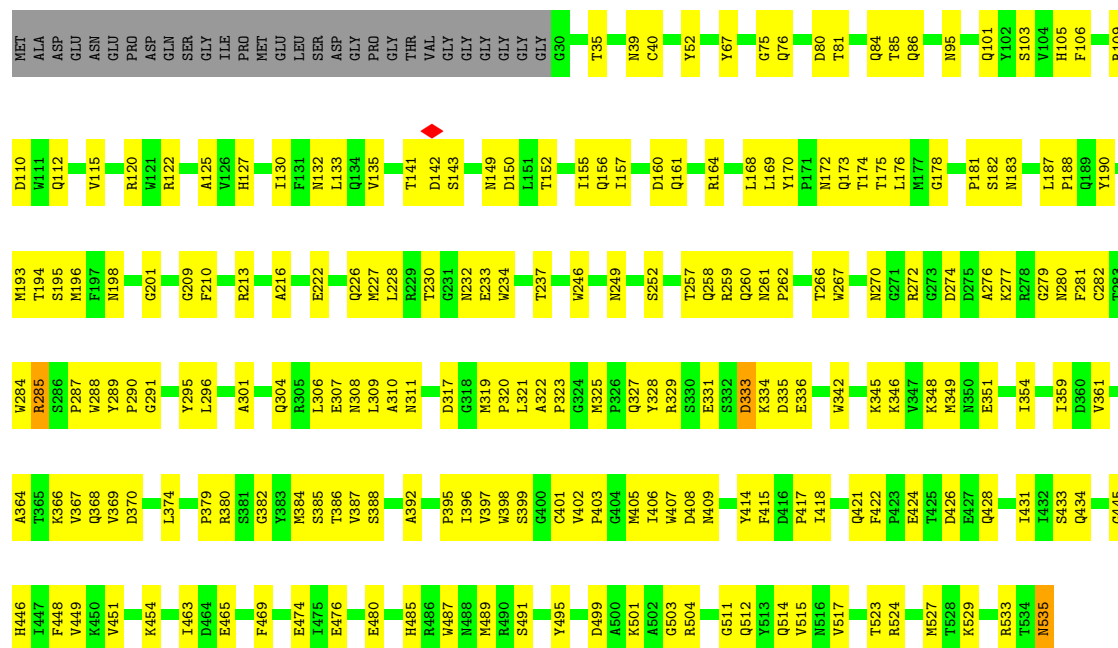
Chain V: 54% 40% 5%





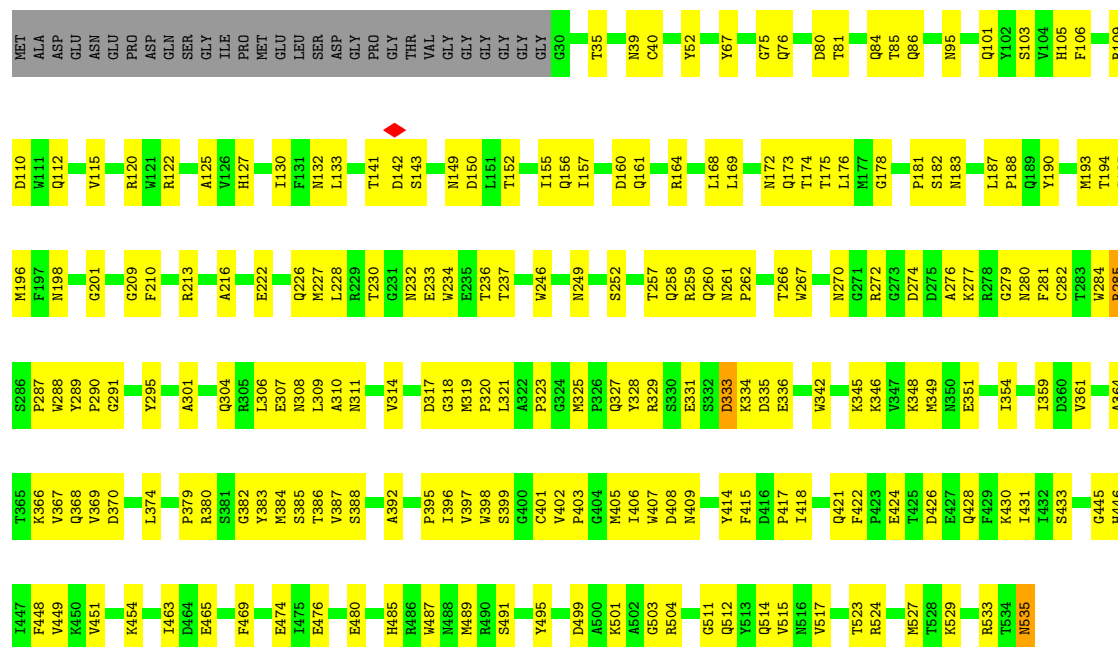
• Molecule 1: VP2

Chain W: 56% 39% • 5%



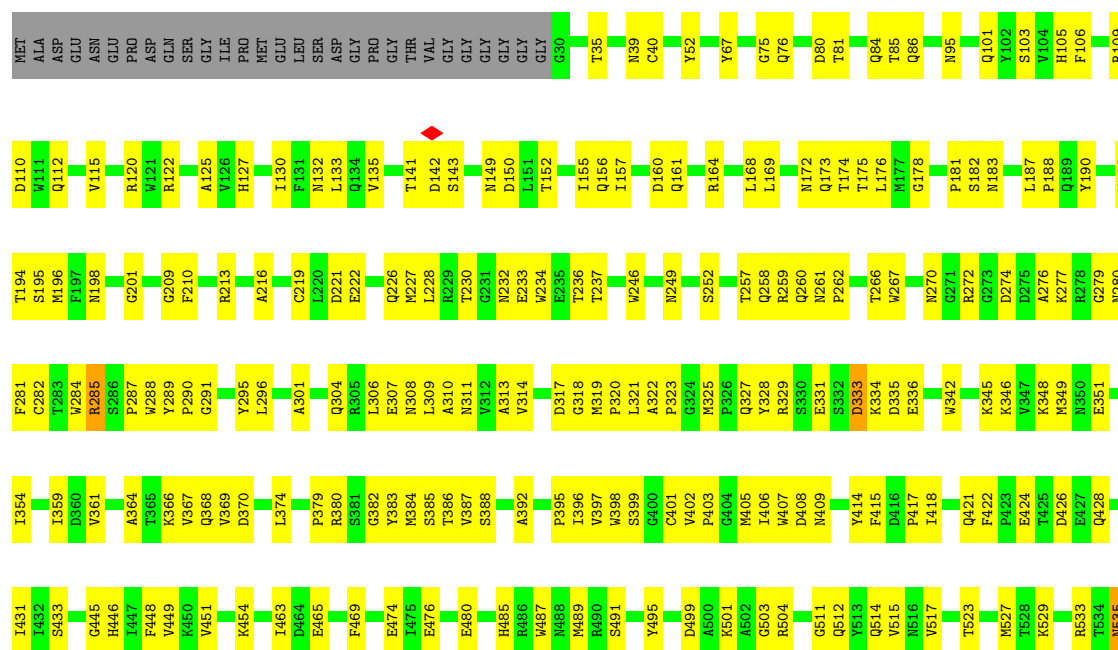
• Molecule 1: VP2

Chain X: 56% 39% • 5%



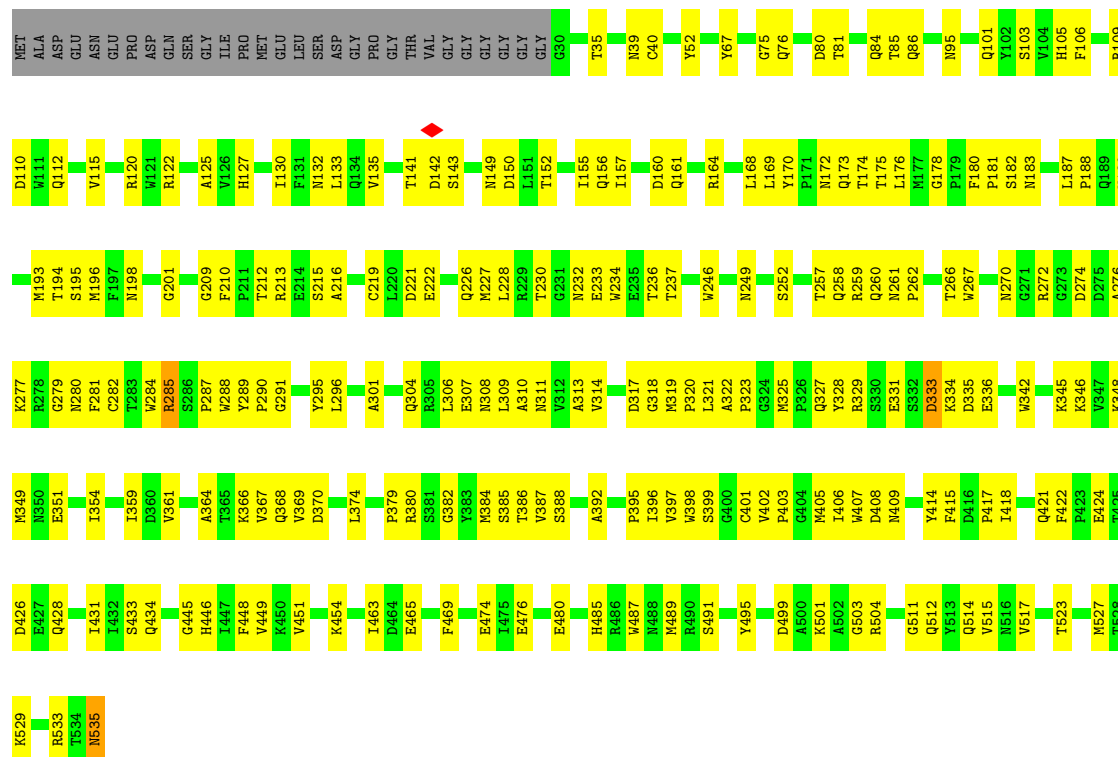
• Molecule 1: VP2

Chain Y:  55% 39% 5%



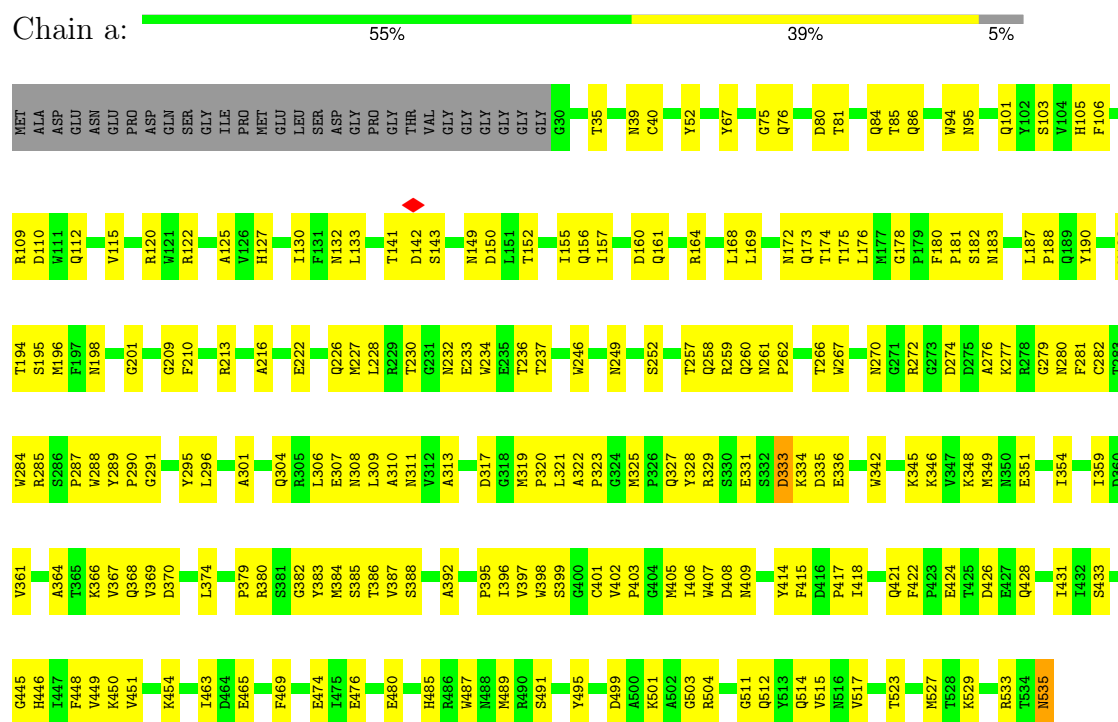
• Molecule 1: VP2

Chain Z:  54% 40% 5%



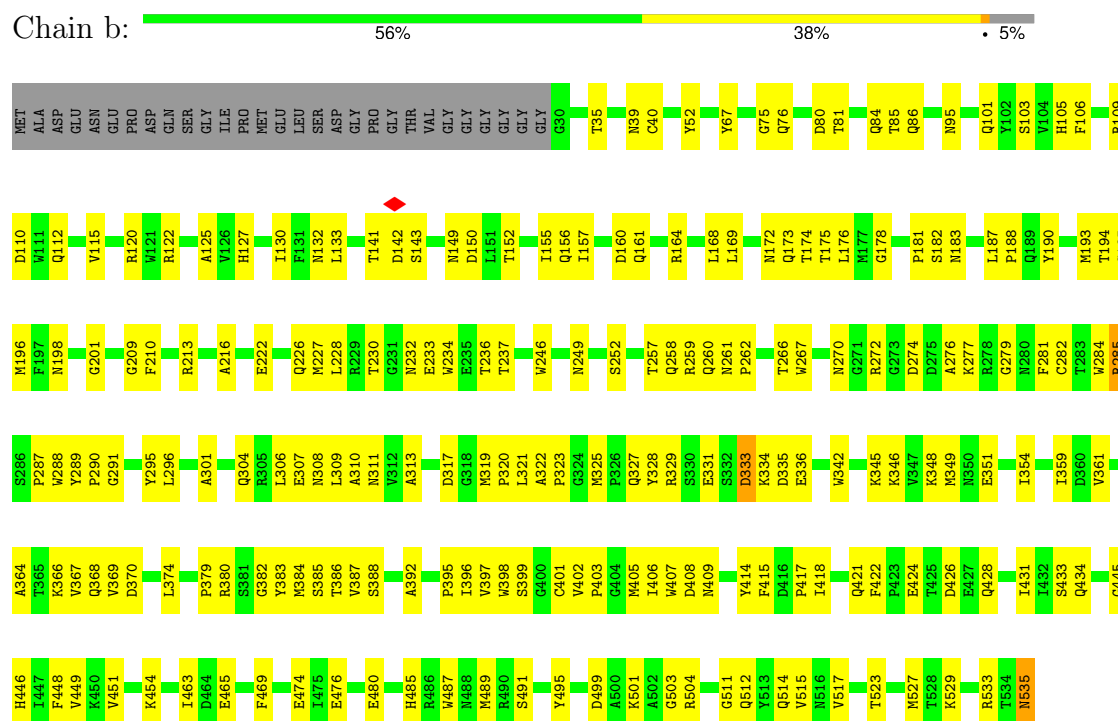
• Molecule 1: VP2

Chain a:



• Molecule 1: VP2

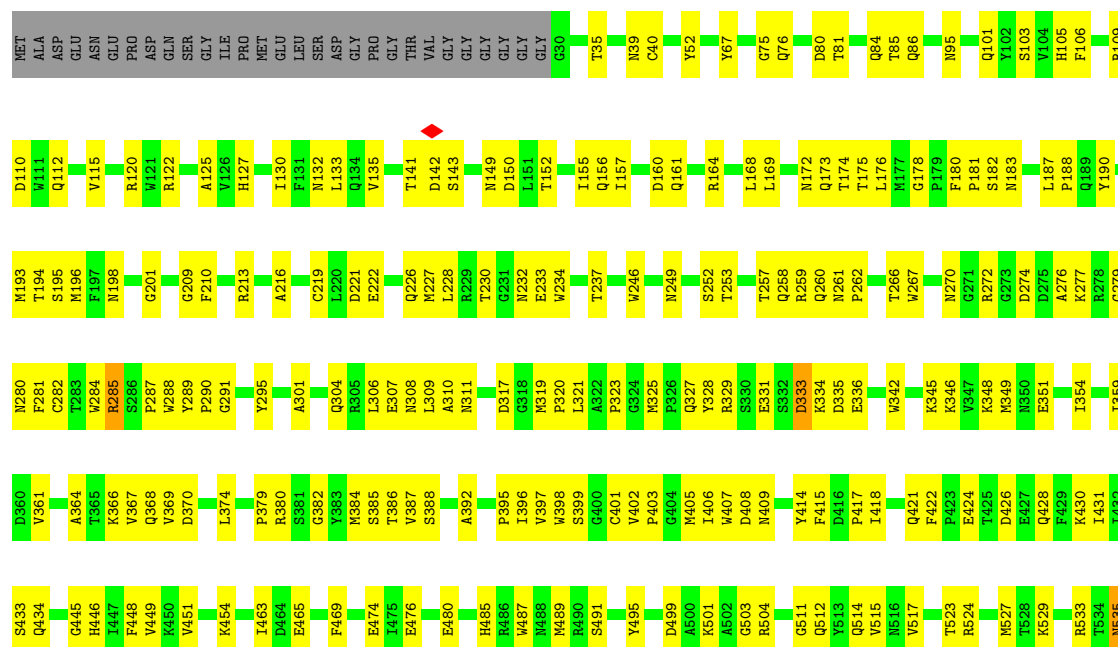
Chain b:



• Molecule 1: VP2

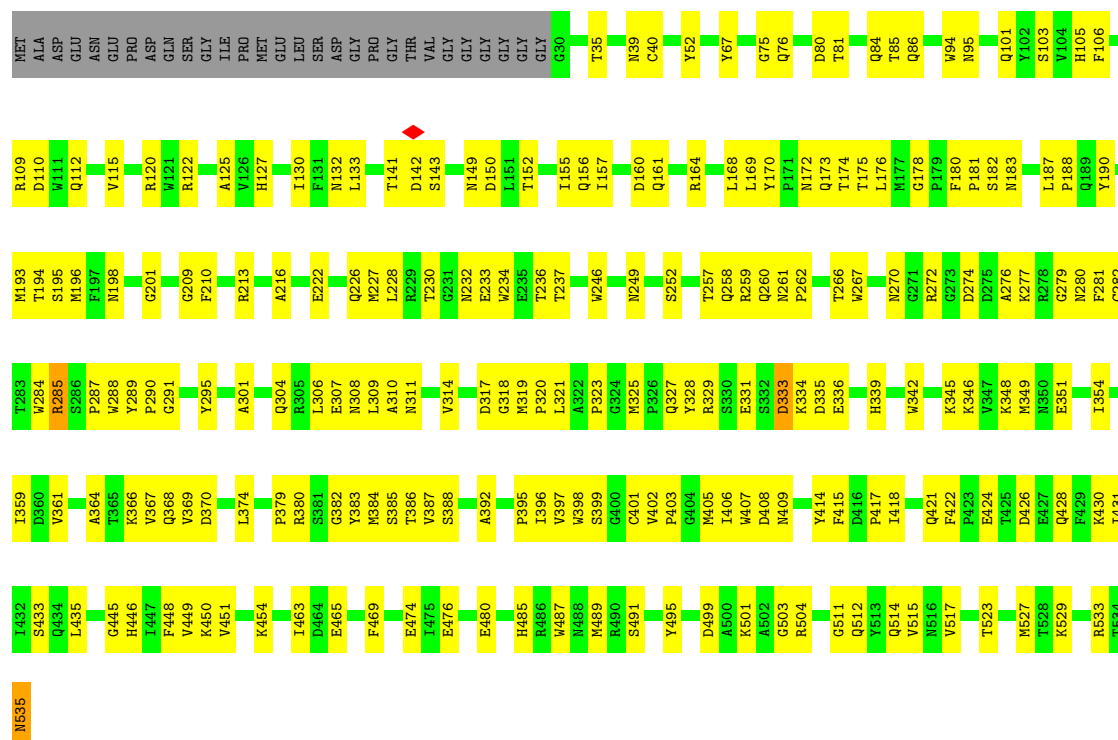
Chain c:





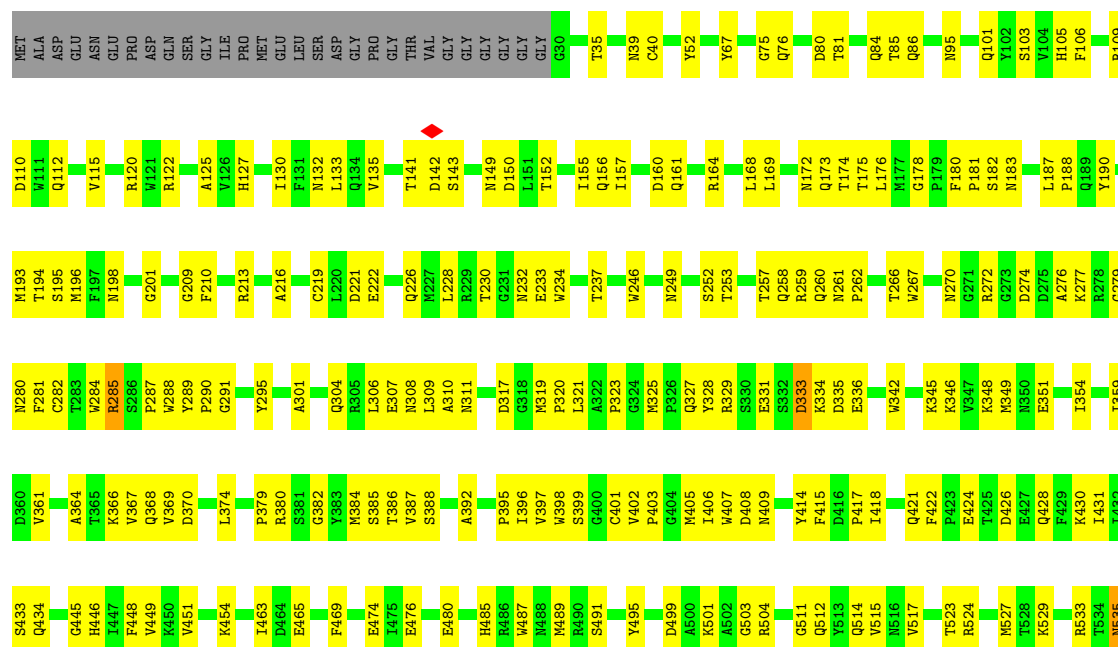
• Molecule 1: VP2

Chain d: 55% 39% 5%



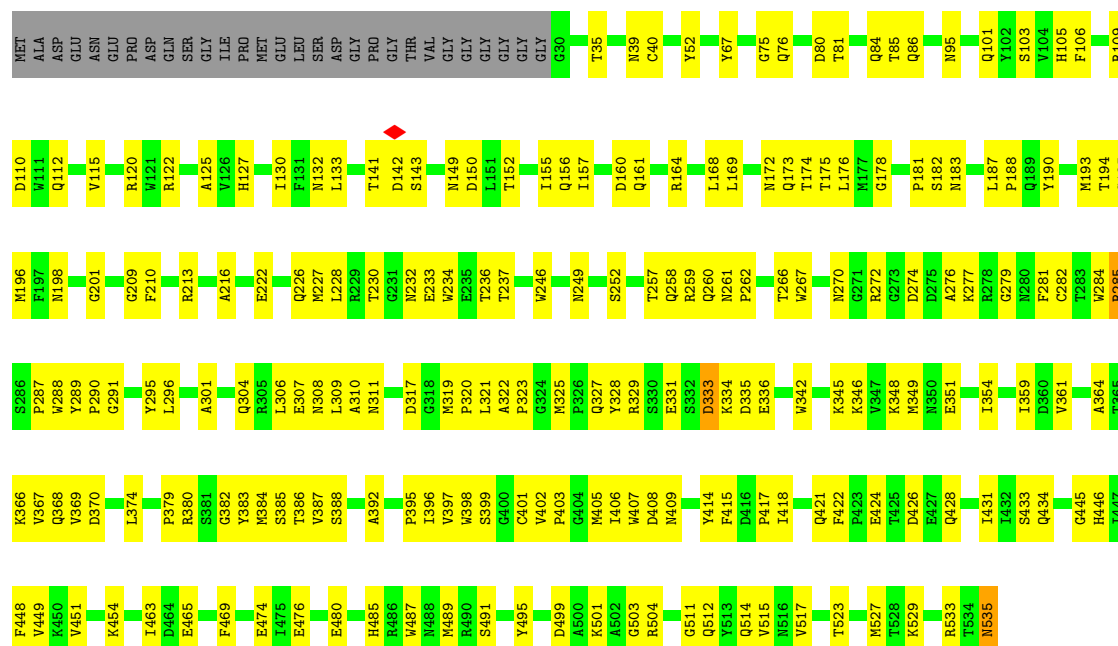
• Molecule 1: VP2

Chain e: 55% 39% 5%



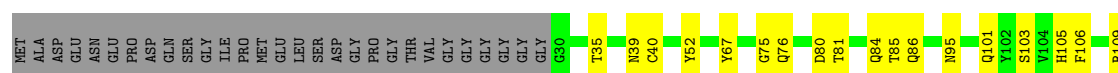
• Molecule 1: VP2

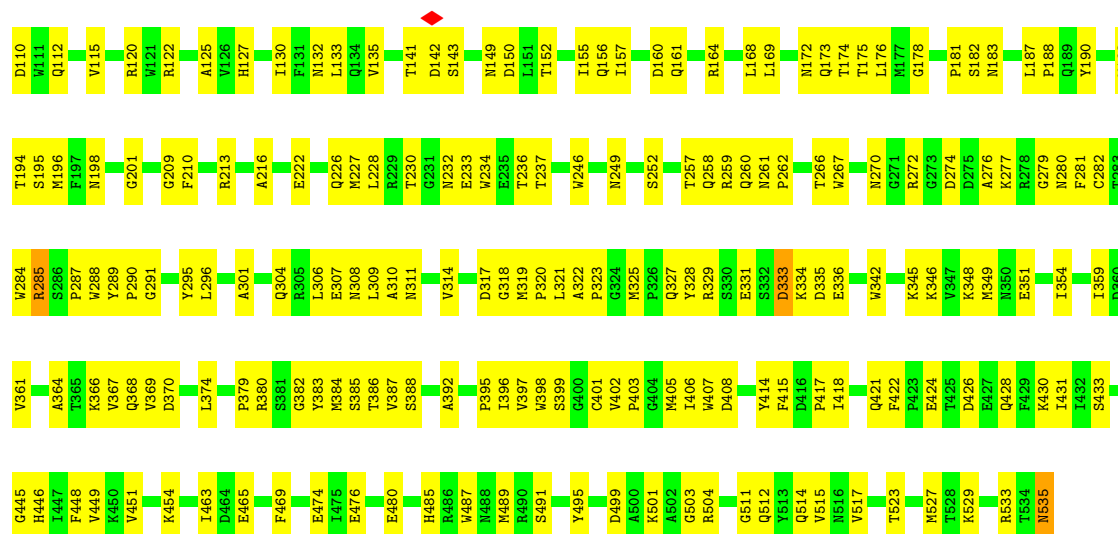
Chain f: 56% 38% • 5%



• Molecule 1: VP2

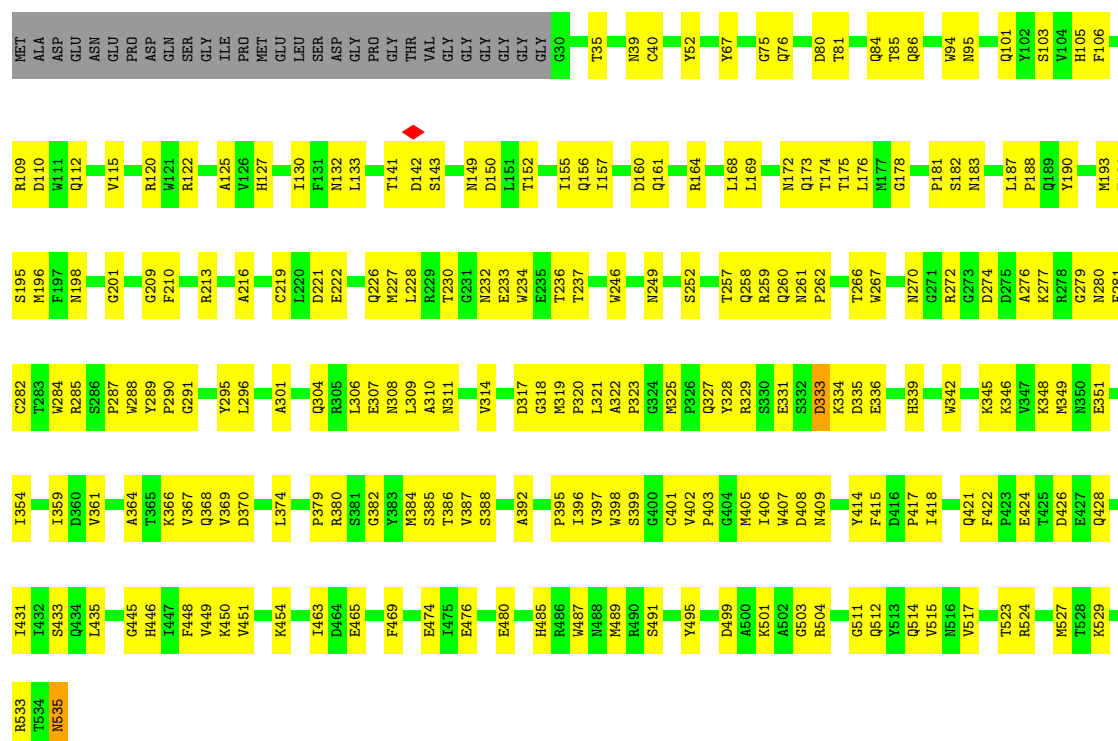
Chain g: 55% 39% • 5%





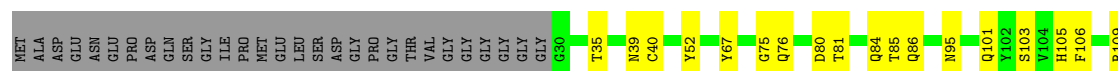
• Molecule 1: VP2

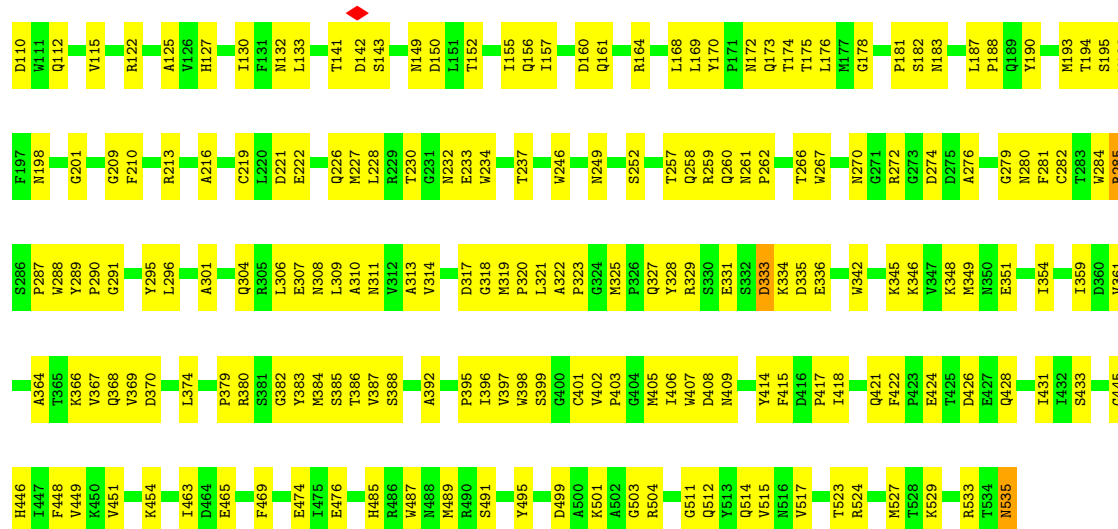
Chain h:



• Molecule 1: VP2

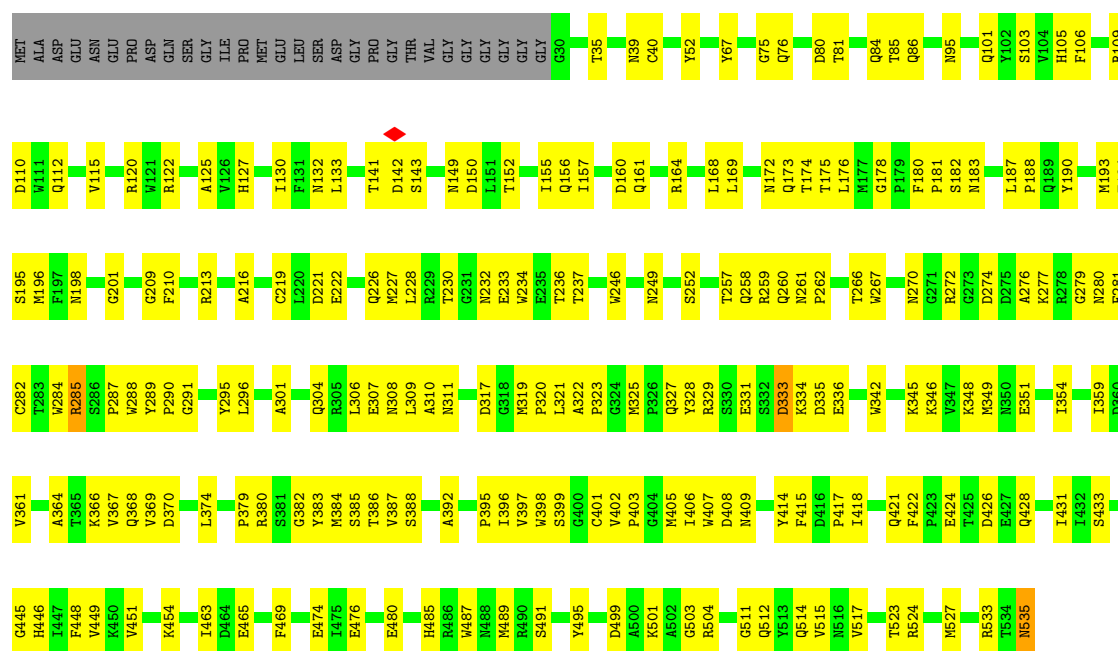
Chain i:





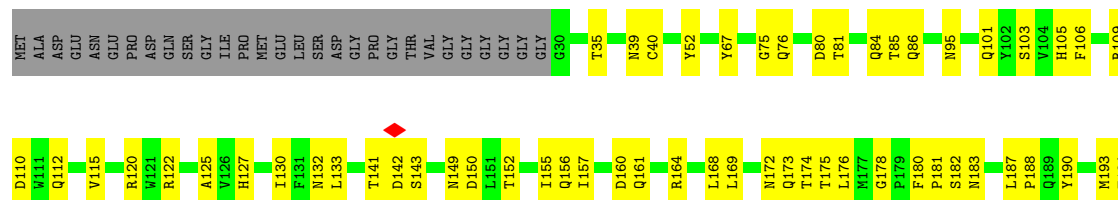
• Molecule 1: VP2

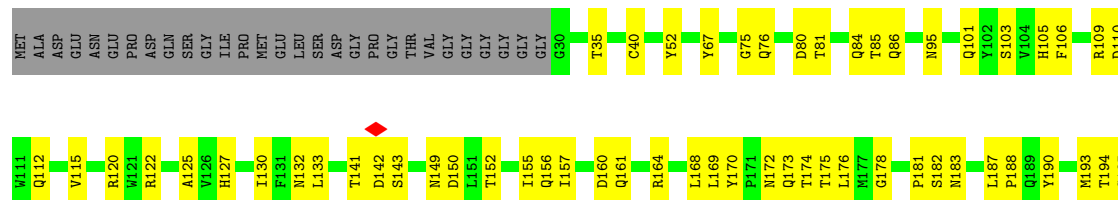
Chain j: 55% 39% • 5%

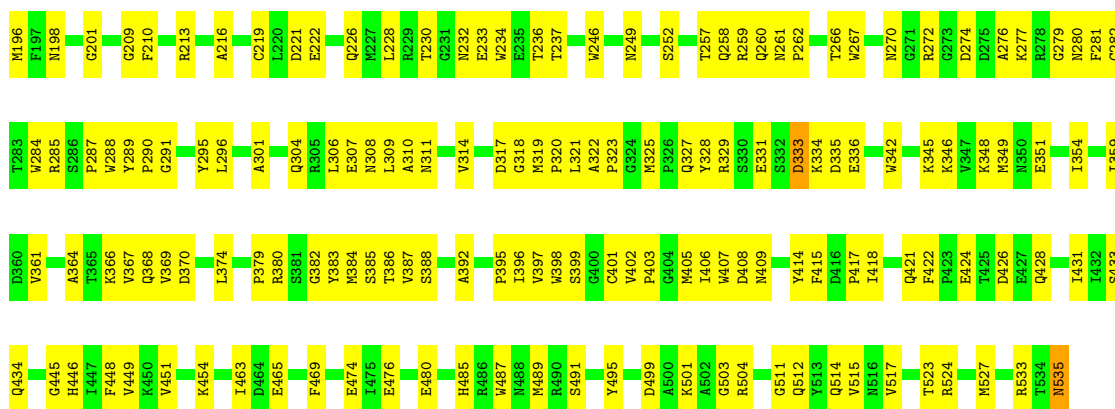


• Molecule 1: VP2

Chain k: 56% 39% • 5%

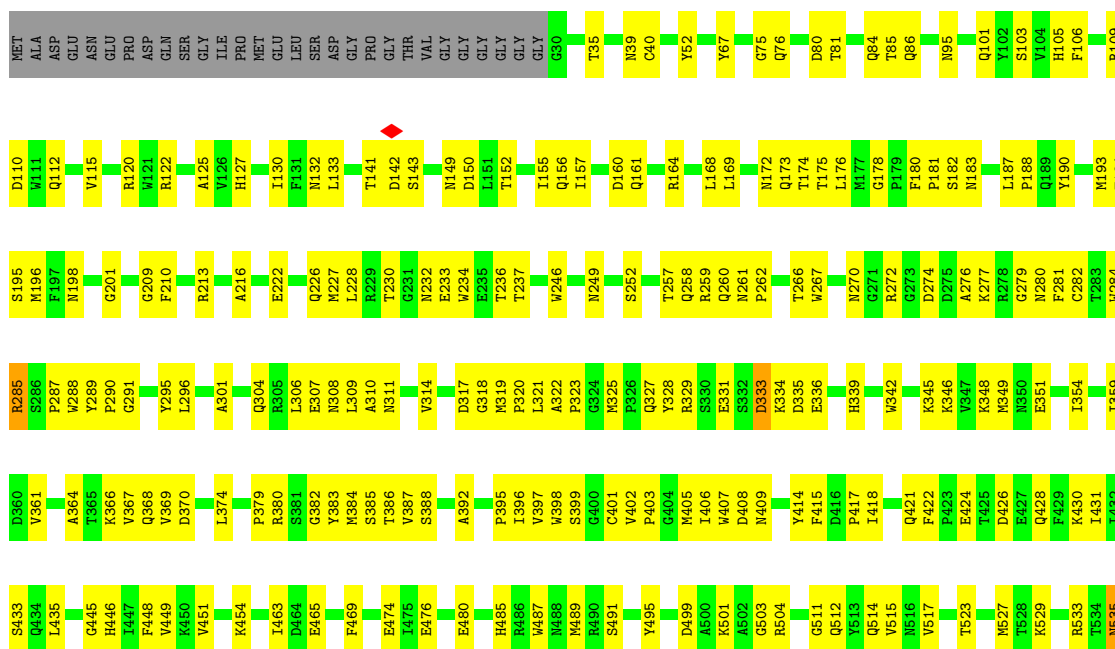






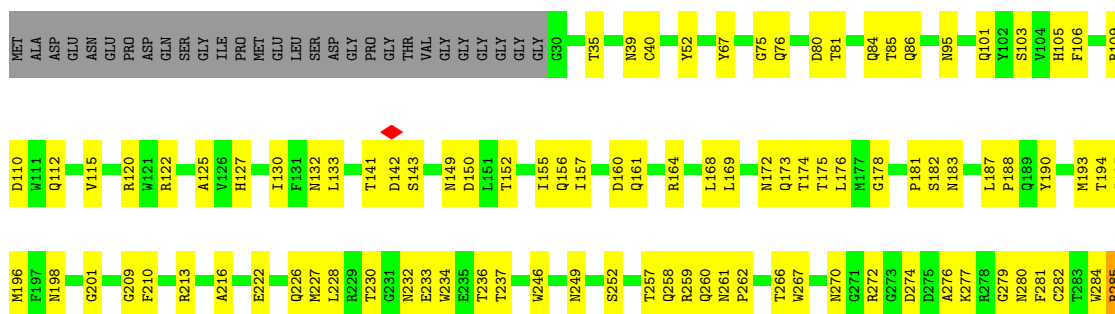
• Molecule 1: VP2

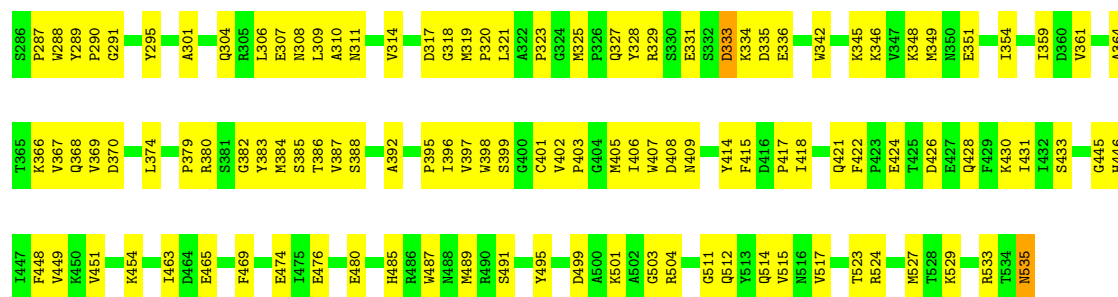
Chain n: 55% 39% 5%



• Molecule 1: VP2

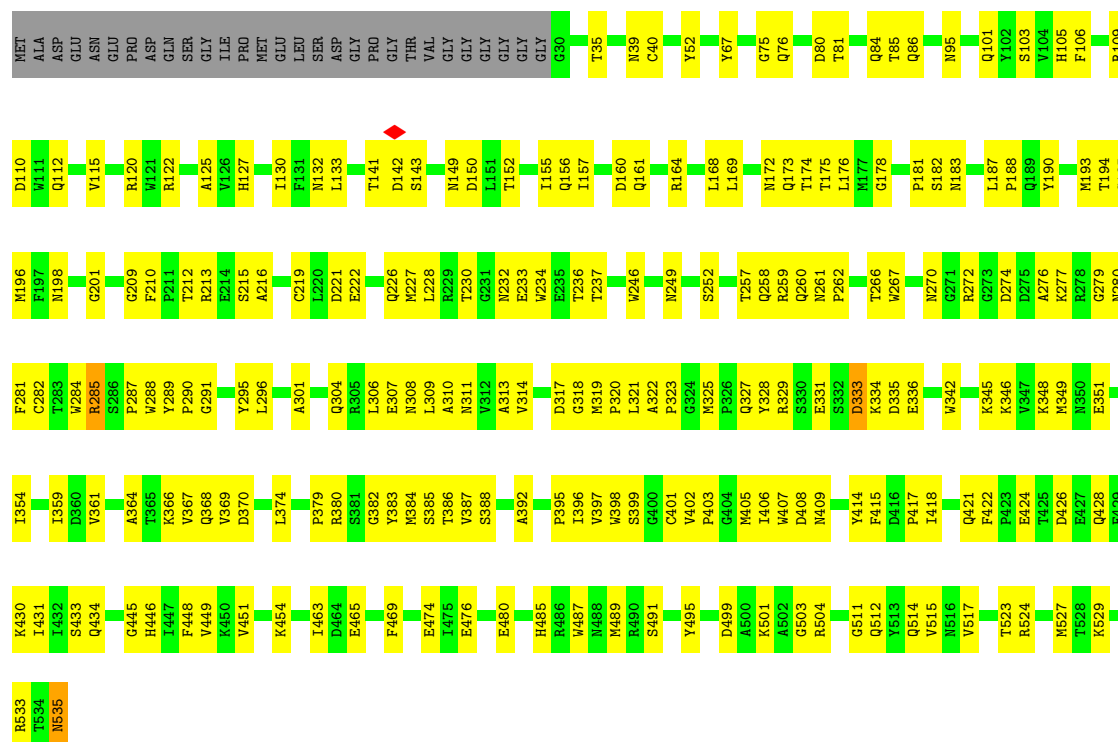
Chain o: 56% 39% 5%





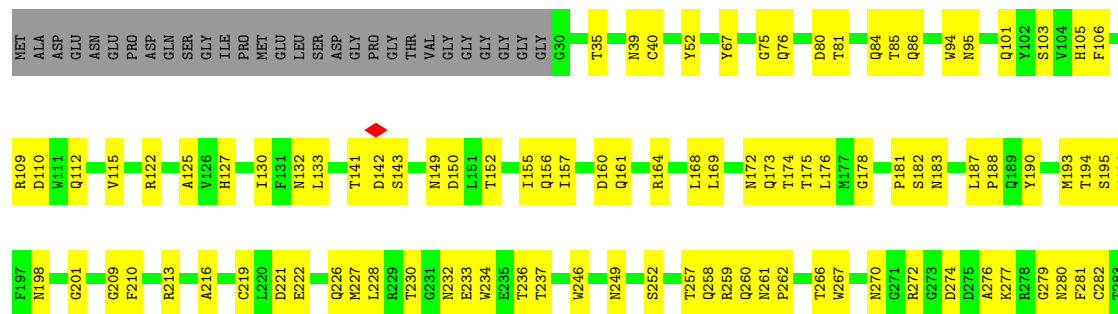
• Molecule 1: VP2

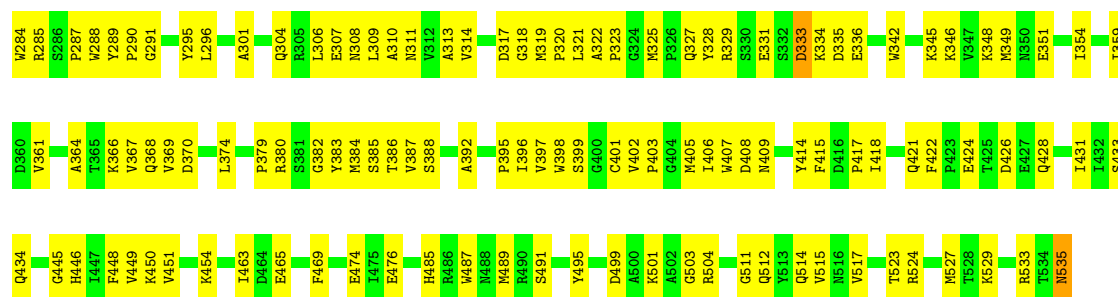
Chain p: 54% 40% 5%



• Molecule 1: VP2

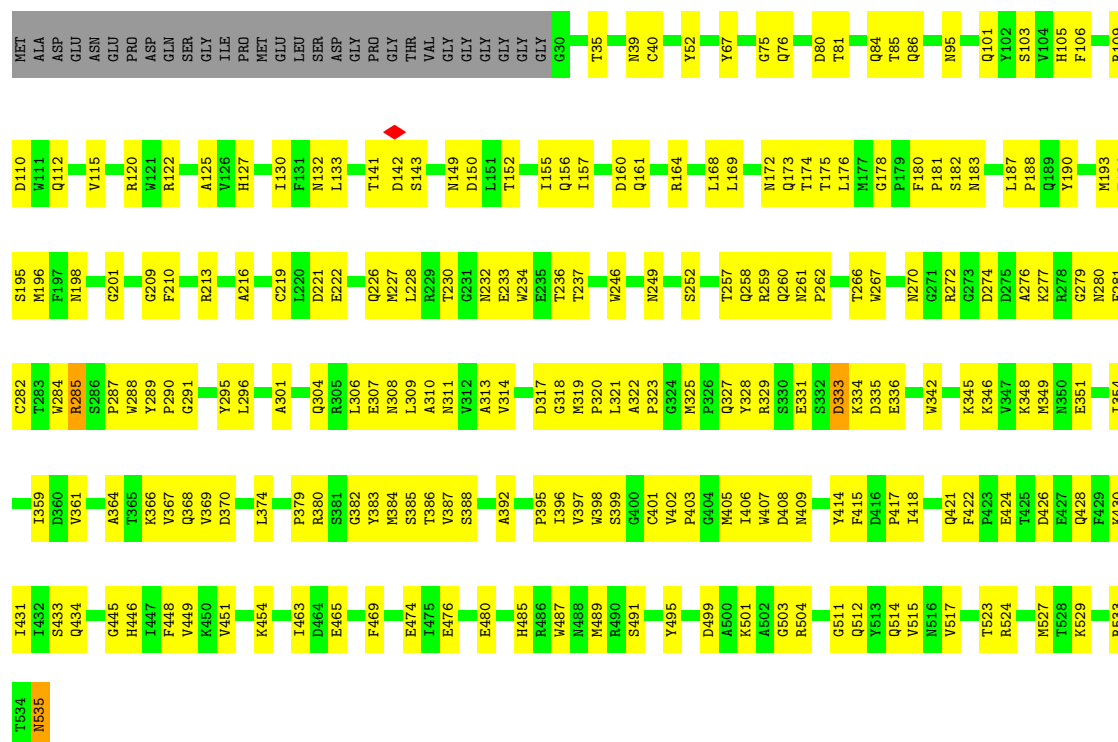
Chain q: 55% 40% 5%





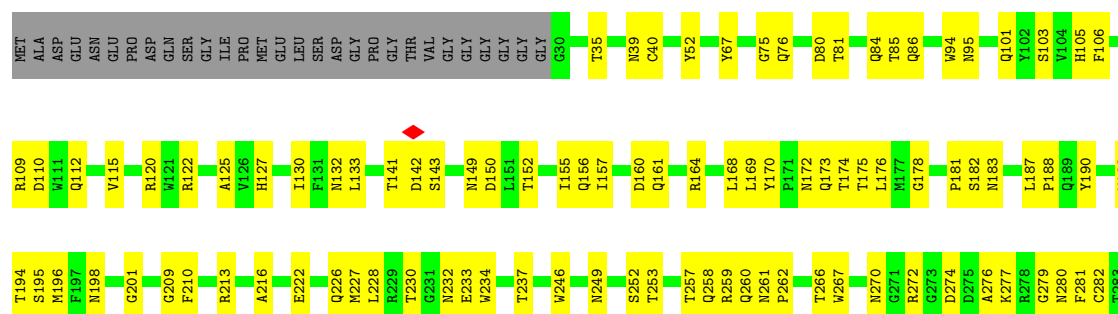
• Molecule 1: VP2

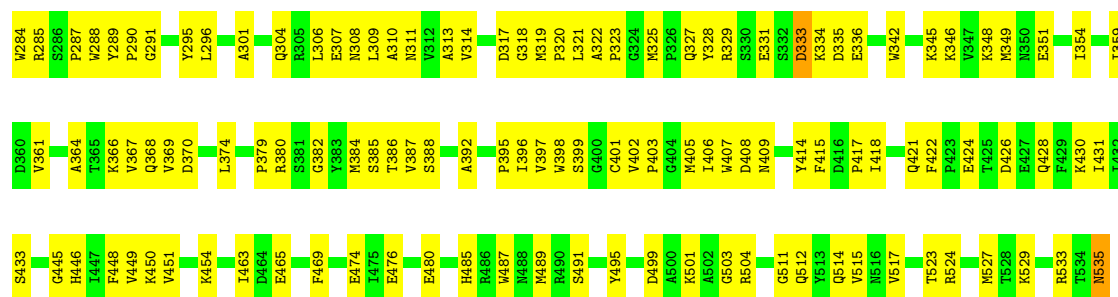
Chain r: 54% 40% 5%



• Molecule 1: VP2

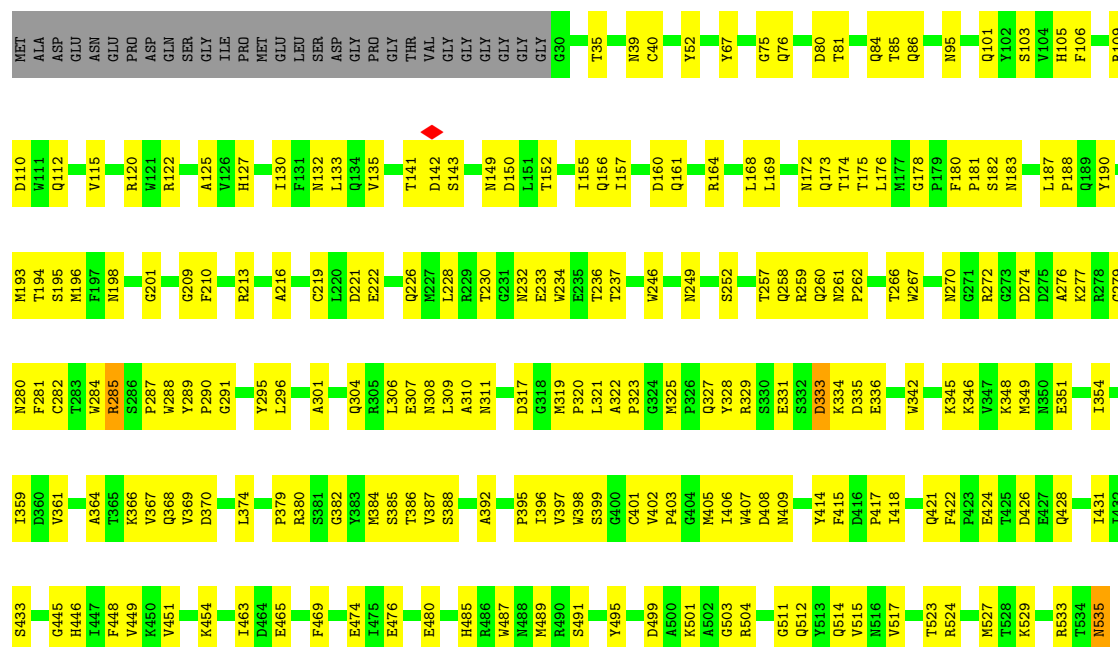
Chain s: 55% 40% 5%





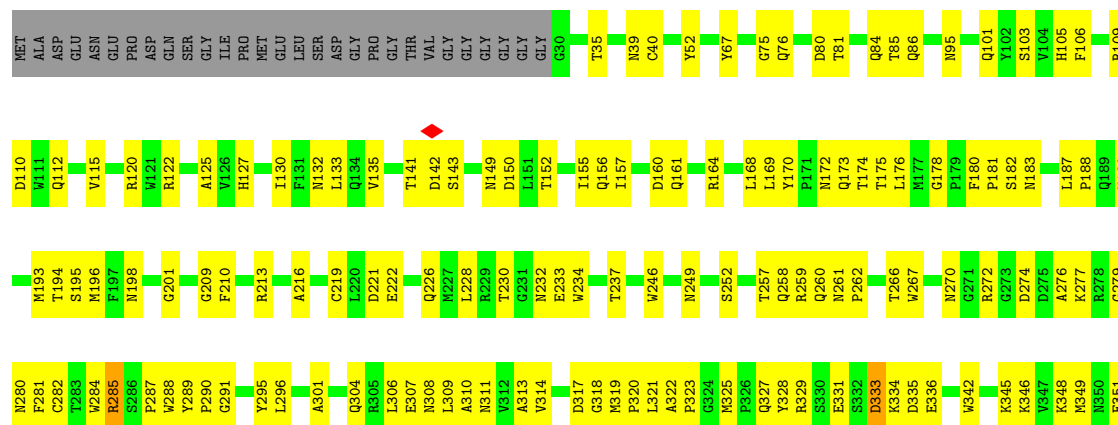
• Molecule 1: VP2

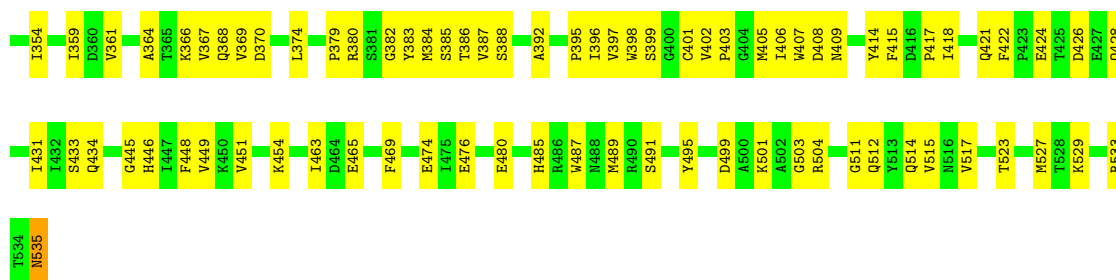
Chain t: 55% 39% 5%



• Molecule 1: VP2

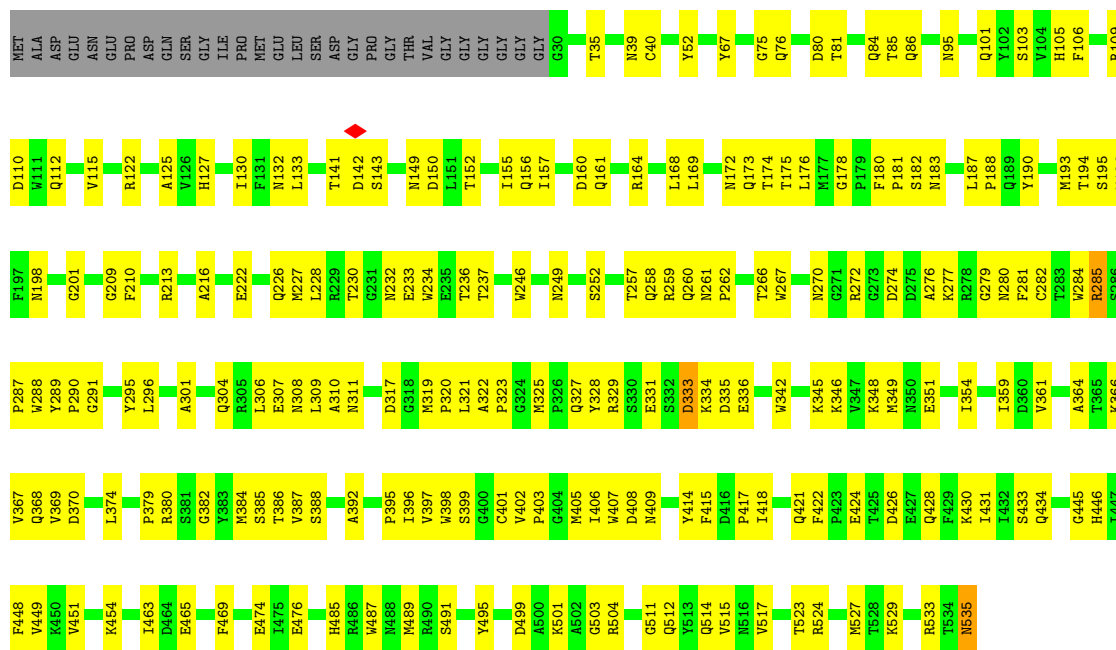
Chain u: 55% 39% 5%





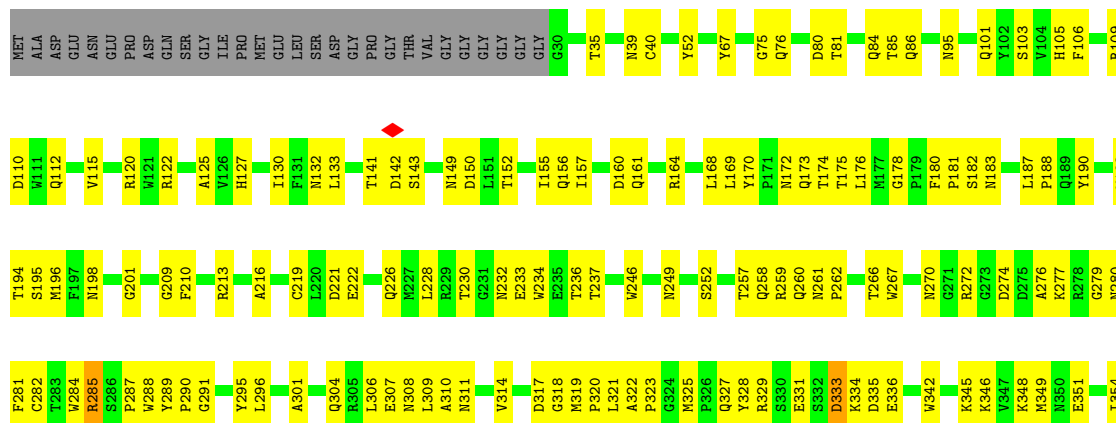
• Molecule 1: VP2

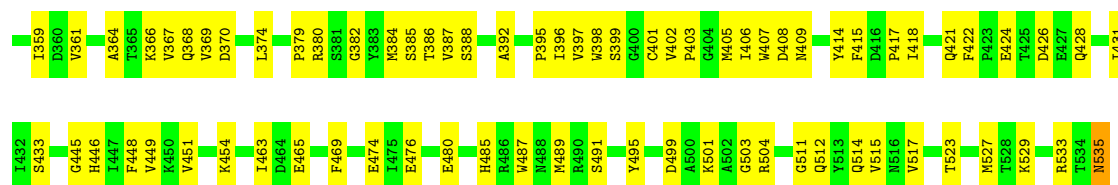
Chain v: 56% 38% 5%



• Molecule 1: VP2

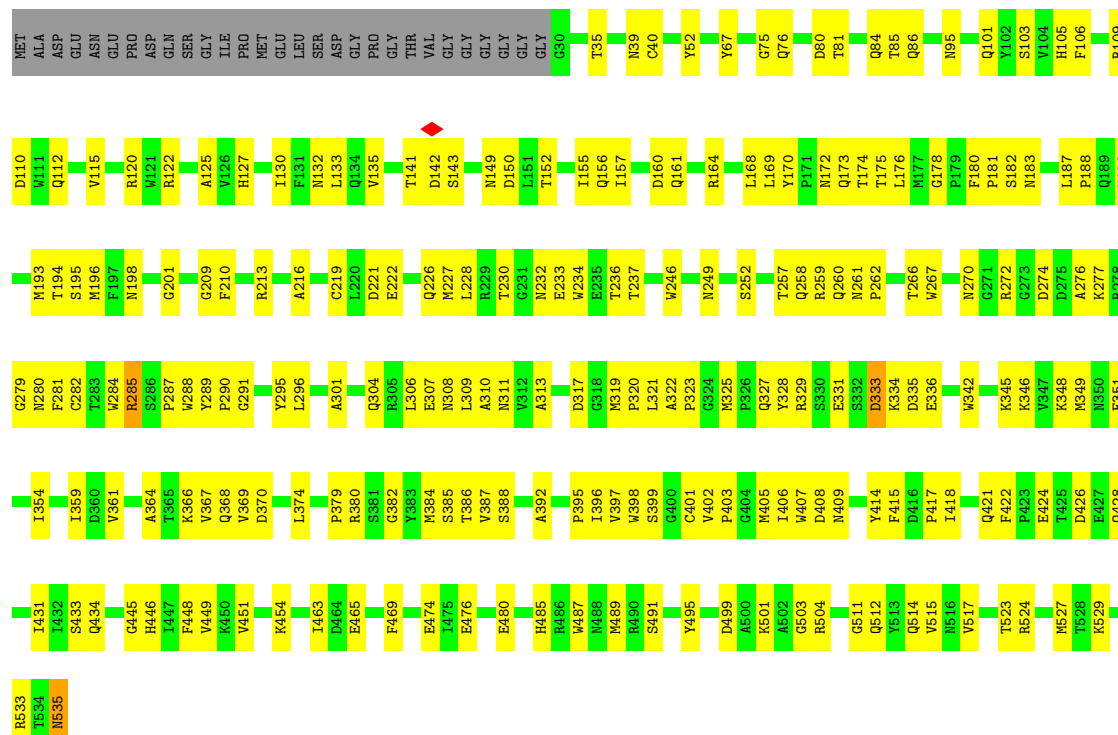
Chain w: 55% 39% 5%





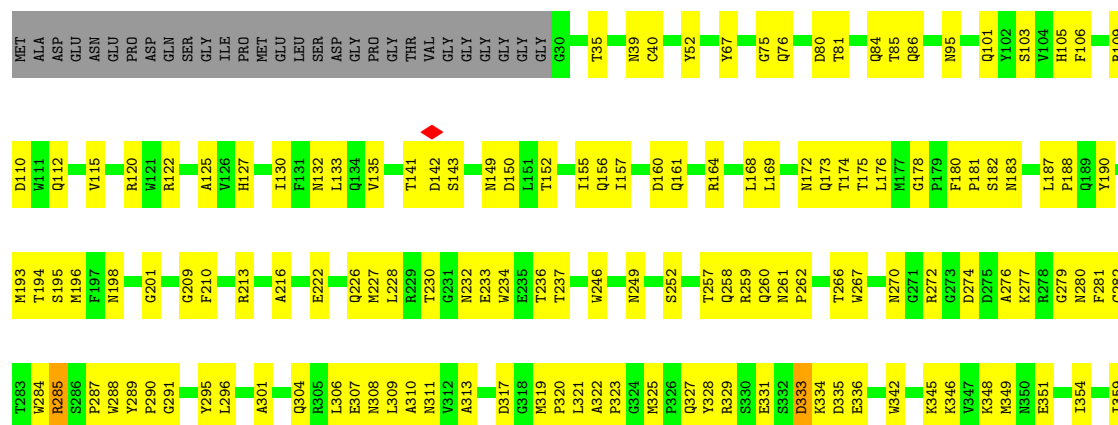
• Molecule 1: VP2

Chain x: 55% 39% 5%



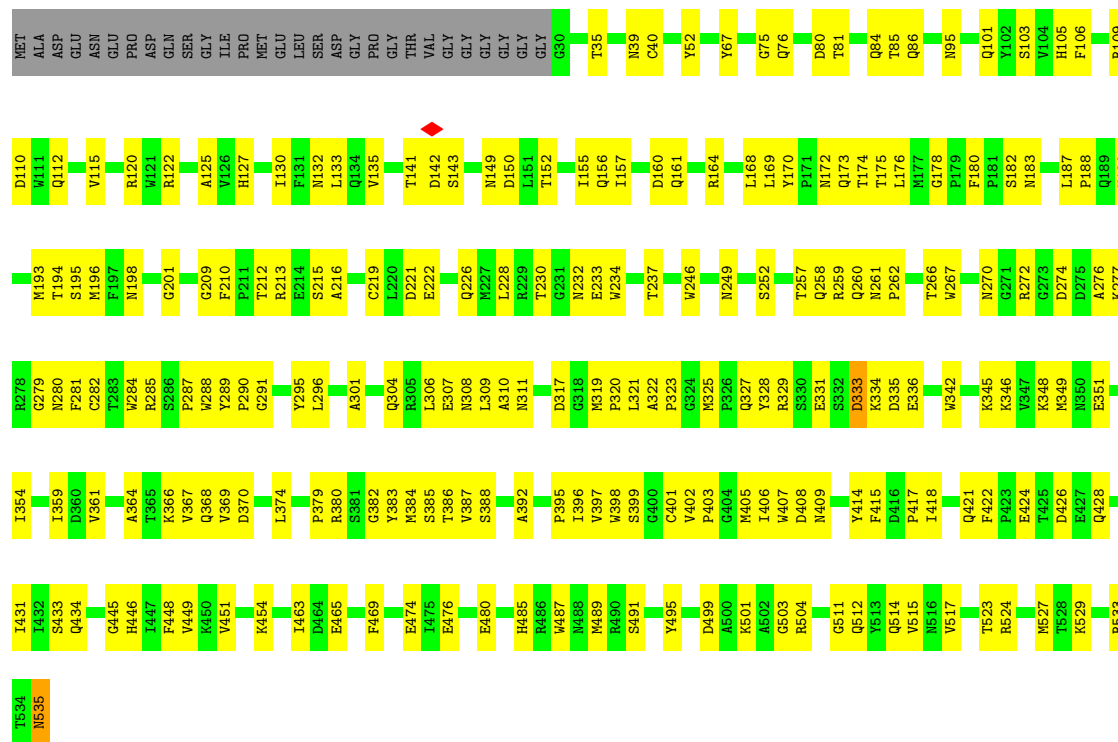
• Molecule 1: VP2

Chain y: 55% 39% 5%

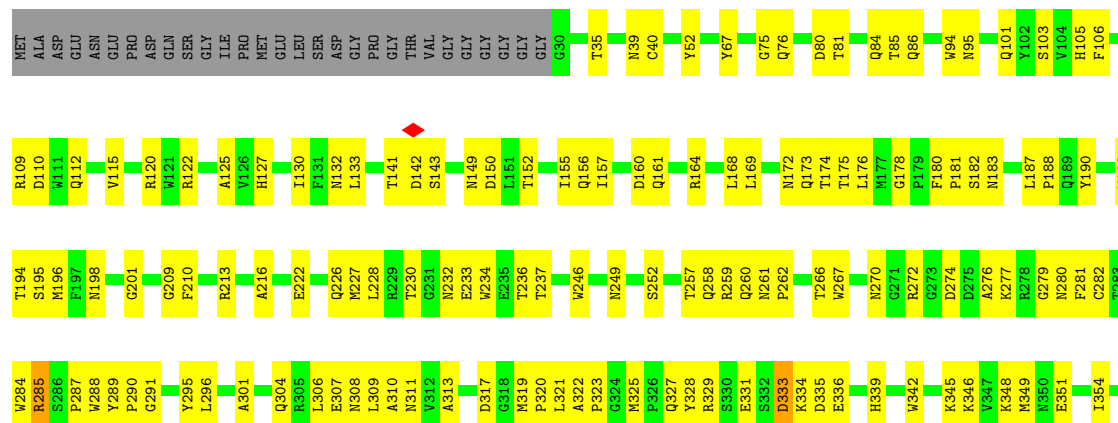


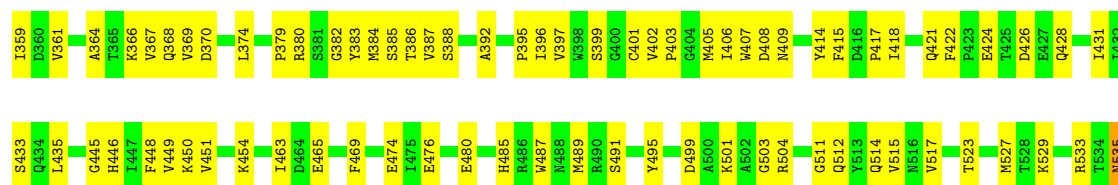


• Molecule 1: VP2



• Molecule 1: VP2

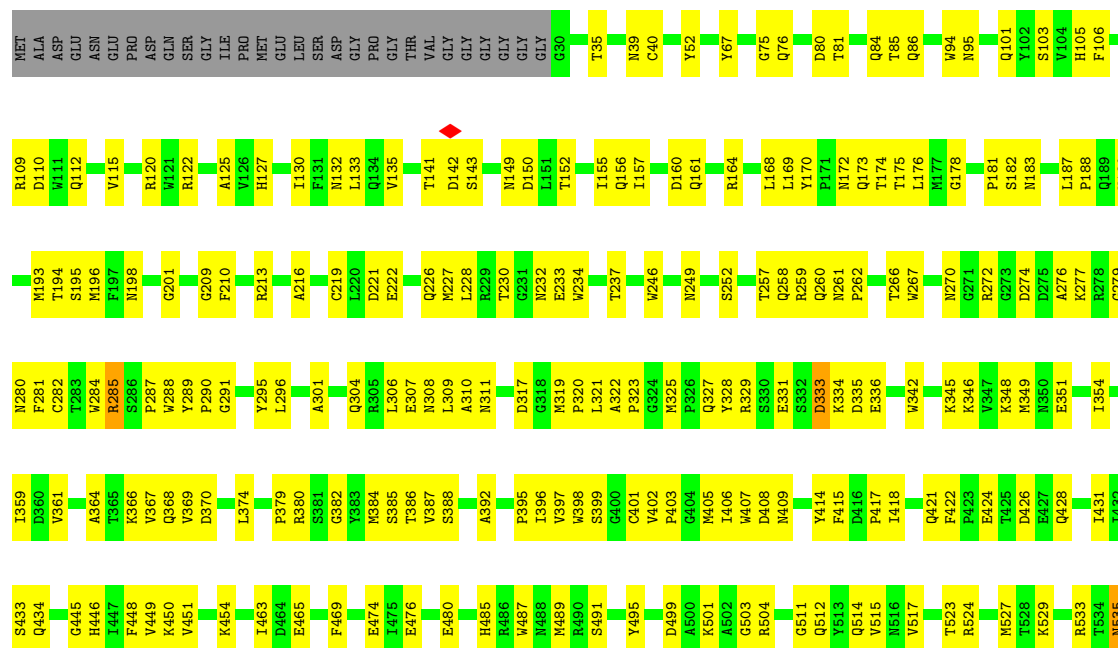






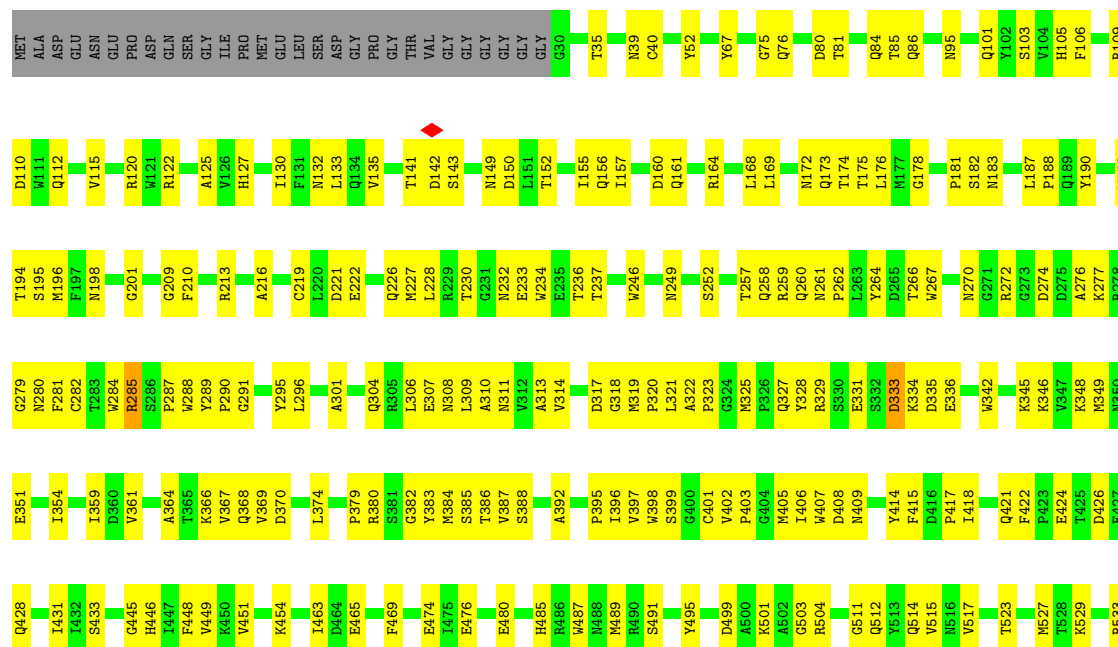
• Molecule 1: VP2

Chain 6: 55% 39% 5%



• Molecule 1: VP2

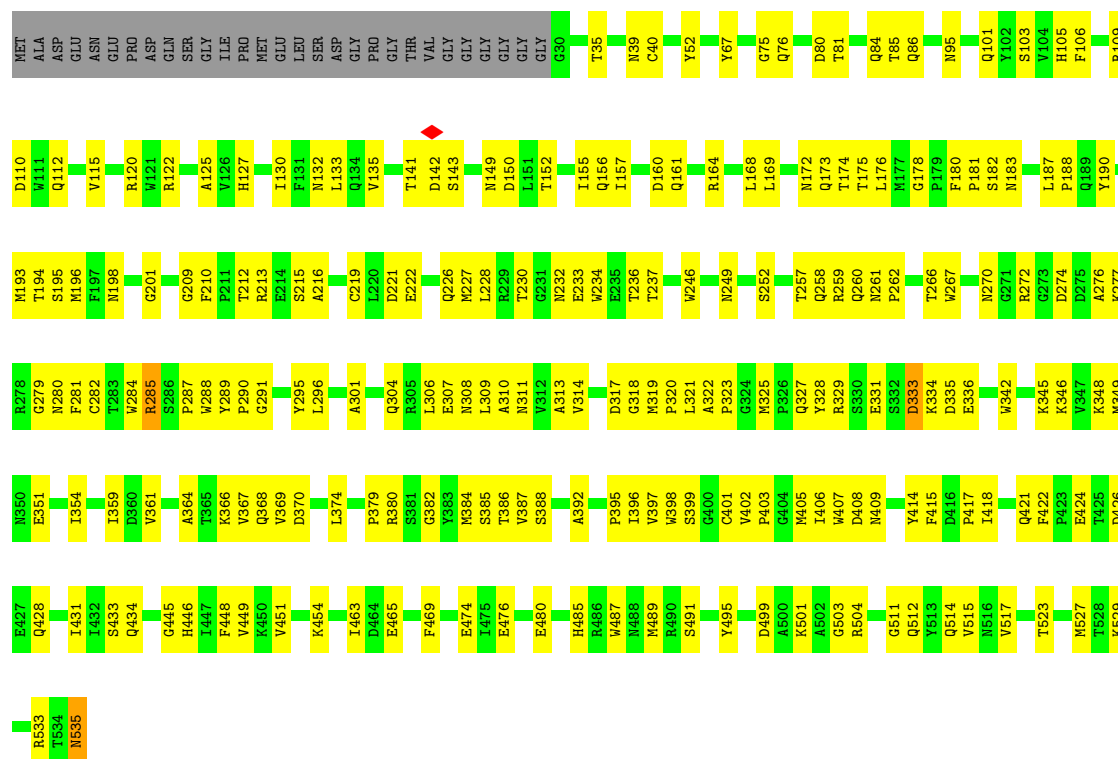
Chain 7: 55% 39% 5%



T534
N535

• Molecule 1: VP2

Chain 8:  54% 40% 5%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	35131	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	JEOL CRYO ARM 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	950	Depositor
Maximum defocus (nm)	1990	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	16.039	Depositor
Minimum map value	-7.913	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (\AA)	360.0, 360.0, 360.0	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	0.72, 0.72, 0.72	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: MG

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	0.49	1/4186 (0.0%)	0.55	0/5715
1	2	0.49	1/4186 (0.0%)	0.55	0/5715
1	3	0.49	1/4186 (0.0%)	0.55	0/5715
1	4	0.49	1/4186 (0.0%)	0.55	0/5715
1	5	0.49	1/4186 (0.0%)	0.55	0/5715
1	6	0.48	1/4186 (0.0%)	0.55	0/5715
1	7	0.49	1/4186 (0.0%)	0.55	0/5715
1	8	0.49	1/4186 (0.0%)	0.55	0/5715
1	A	0.49	1/4186 (0.0%)	0.55	0/5715
1	B	0.49	1/4186 (0.0%)	0.55	0/5715
1	C	0.49	1/4186 (0.0%)	0.55	0/5715
1	D	0.49	1/4186 (0.0%)	0.55	0/5715
1	E	0.49	1/4186 (0.0%)	0.55	0/5715
1	F	0.49	1/4186 (0.0%)	0.55	0/5715
1	G	0.49	1/4186 (0.0%)	0.55	0/5715
1	H	0.48	1/4186 (0.0%)	0.55	0/5715
1	I	0.49	1/4186 (0.0%)	0.55	0/5715
1	J	0.49	1/4186 (0.0%)	0.55	0/5715
1	K	0.48	1/4186 (0.0%)	0.55	0/5715
1	L	0.49	1/4186 (0.0%)	0.55	0/5715
1	M	0.49	1/4186 (0.0%)	0.55	0/5715
1	N	0.49	1/4186 (0.0%)	0.55	0/5715
1	O	0.49	1/4186 (0.0%)	0.55	0/5715
1	P	0.48	1/4186 (0.0%)	0.55	0/5715
1	Q	0.49	1/4186 (0.0%)	0.55	0/5715
1	R	0.48	1/4186 (0.0%)	0.55	0/5715
1	S	0.49	1/4186 (0.0%)	0.55	0/5715
1	T	0.49	1/4186 (0.0%)	0.55	0/5715
1	U	0.49	1/4186 (0.0%)	0.55	0/5715
1	V	0.49	1/4186 (0.0%)	0.55	0/5715
1	W	0.49	1/4186 (0.0%)	0.55	0/5715
1	X	0.49	1/4186 (0.0%)	0.55	0/5715

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	Y	0.49	1/4186 (0.0%)	0.55	0/5715
1	Z	0.49	1/4186 (0.0%)	0.55	0/5715
1	a	0.49	1/4186 (0.0%)	0.55	0/5715
1	b	0.49	1/4186 (0.0%)	0.55	0/5715
1	c	0.49	1/4186 (0.0%)	0.55	0/5715
1	d	0.49	1/4186 (0.0%)	0.55	0/5715
1	e	0.49	1/4186 (0.0%)	0.55	0/5715
1	f	0.49	1/4186 (0.0%)	0.55	0/5715
1	g	0.49	1/4186 (0.0%)	0.55	0/5715
1	h	0.49	1/4186 (0.0%)	0.55	0/5715
1	i	0.49	1/4186 (0.0%)	0.55	0/5715
1	j	0.48	1/4186 (0.0%)	0.55	0/5715
1	k	0.49	1/4186 (0.0%)	0.55	0/5715
1	l	0.49	1/4186 (0.0%)	0.55	0/5715
1	m	0.48	1/4186 (0.0%)	0.55	0/5715
1	n	0.49	1/4186 (0.0%)	0.55	0/5715
1	o	0.49	1/4186 (0.0%)	0.55	0/5715
1	p	0.48	1/4186 (0.0%)	0.55	0/5715
1	q	0.48	1/4186 (0.0%)	0.55	0/5715
1	r	0.49	1/4186 (0.0%)	0.55	0/5715
1	s	0.49	1/4186 (0.0%)	0.55	0/5715
1	t	0.48	1/4186 (0.0%)	0.55	0/5715
1	u	0.49	1/4186 (0.0%)	0.55	0/5715
1	v	0.49	1/4186 (0.0%)	0.55	0/5715
1	w	0.49	1/4186 (0.0%)	0.55	0/5715
1	x	0.49	1/4186 (0.0%)	0.55	0/5715
1	y	0.49	1/4186 (0.0%)	0.55	0/5715
1	z	0.49	1/4186 (0.0%)	0.55	0/5715
All	All	0.49	60/251160 (0.0%)	0.55	0/342900

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

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	7	0	1
1	8	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
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

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Mol	Chain	#Chirality outliers	#Planarity outliers
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
All	All	0	60

All (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	285	ARG	C-N	-5.80	1.21	1.33
1	d	285	ARG	C-N	-5.80	1.21	1.33
1	n	285	ARG	C-N	-5.80	1.21	1.33
1	3	285	ARG	C-N	-5.80	1.21	1.33
1	A	285	ARG	C-N	-5.80	1.21	1.33
1	y	285	ARG	C-N	-5.80	1.21	1.33
1	B	285	ARG	C-N	-5.79	1.21	1.33
1	S	285	ARG	C-N	-5.79	1.21	1.33
1	s	285	ARG	C-N	-5.79	1.21	1.33
1	2	285	ARG	C-N	-5.79	1.21	1.33
1	D	285	ARG	C-N	-5.78	1.21	1.33
1	N	285	ARG	C-N	-5.78	1.21	1.33
1	W	285	ARG	C-N	-5.78	1.21	1.33
1	Y	285	ARG	C-N	-5.78	1.21	1.33
1	i	285	ARG	C-N	-5.78	1.21	1.33
1	k	285	ARG	C-N	-5.78	1.21	1.33
1	7	285	ARG	C-N	-5.78	1.21	1.33
1	u	285	ARG	C-N	-5.77	1.21	1.33
1	E	285	ARG	C-N	-5.77	1.21	1.33
1	w	285	ARG	C-N	-5.77	1.21	1.33
1	L	285	ARG	C-N	-5.77	1.21	1.33
1	1	285	ARG	C-N	-5.77	1.21	1.33
1	O	285	ARG	C-N	-5.76	1.21	1.33
1	Z	285	ARG	C-N	-5.76	1.21	1.33
1	l	285	ARG	C-N	-5.76	1.21	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8	285	ARG	C-N	-5.76	1.21	1.33
1	6	285	ARG	C-N	-5.76	1.21	1.33
1	x	285	ARG	C-N	-5.75	1.21	1.33
1	R	285	ARG	C-N	-5.75	1.21	1.33
1	b	285	ARG	C-N	-5.75	1.21	1.33
1	c	285	ARG	C-N	-5.75	1.21	1.33
1	e	285	ARG	C-N	-5.75	1.21	1.33
1	f	285	ARG	C-N	-5.75	1.21	1.33
1	F	285	ARG	C-N	-5.75	1.21	1.33
1	M	285	ARG	C-N	-5.75	1.21	1.33
1	X	285	ARG	C-N	-5.75	1.21	1.33
1	h	285	ARG	C-N	-5.75	1.21	1.33
1	o	285	ARG	C-N	-5.75	1.21	1.33
1	v	285	ARG	C-N	-5.75	1.21	1.33
1	C	285	ARG	C-N	-5.75	1.21	1.33
1	I	285	ARG	C-N	-5.75	1.21	1.33
1	V	285	ARG	C-N	-5.75	1.21	1.33
1	g	285	ARG	C-N	-5.75	1.21	1.33
1	p	285	ARG	C-N	-5.75	1.21	1.33
1	J	285	ARG	C-N	-5.74	1.21	1.33
1	U	285	ARG	C-N	-5.74	1.21	1.33
1	q	285	ARG	C-N	-5.74	1.21	1.33
1	r	285	ARG	C-N	-5.74	1.21	1.33
1	z	285	ARG	C-N	-5.74	1.21	1.33
1	H	285	ARG	C-N	-5.74	1.21	1.33
1	P	285	ARG	C-N	-5.74	1.21	1.33
1	j	285	ARG	C-N	-5.74	1.21	1.33
1	5	285	ARG	C-N	-5.74	1.21	1.33
1	G	285	ARG	C-N	-5.74	1.21	1.33
1	Q	285	ARG	C-N	-5.74	1.21	1.33
1	t	285	ARG	C-N	-5.73	1.21	1.33
1	K	285	ARG	C-N	-5.72	1.21	1.33
1	T	285	ARG	C-N	-5.72	1.21	1.33
1	m	285	ARG	C-N	-5.72	1.21	1.33
1	4	285	ARG	C-N	-5.72	1.21	1.33

There are no bond angle outliers.

There are no chirality outliers.

All (60) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	333	ASP	Peptide

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Mol	Chain	Res	Type	Group
1	2	333	ASP	Peptide
1	3	333	ASP	Peptide
1	4	333	ASP	Peptide
1	5	333	ASP	Peptide
1	6	333	ASP	Peptide
1	7	333	ASP	Peptide
1	8	333	ASP	Peptide
1	A	333	ASP	Peptide
1	B	333	ASP	Peptide
1	C	333	ASP	Peptide
1	D	333	ASP	Peptide
1	E	333	ASP	Peptide
1	F	333	ASP	Peptide
1	G	333	ASP	Peptide
1	H	333	ASP	Peptide
1	I	333	ASP	Peptide
1	J	333	ASP	Peptide
1	K	333	ASP	Peptide
1	L	333	ASP	Peptide
1	M	333	ASP	Peptide
1	N	333	ASP	Peptide
1	O	333	ASP	Peptide
1	P	333	ASP	Peptide
1	Q	333	ASP	Peptide
1	R	333	ASP	Peptide
1	S	333	ASP	Peptide
1	T	333	ASP	Peptide
1	U	333	ASP	Peptide
1	V	333	ASP	Peptide
1	W	333	ASP	Peptide
1	X	333	ASP	Peptide
1	Y	333	ASP	Peptide
1	Z	333	ASP	Peptide
1	a	333	ASP	Peptide
1	b	333	ASP	Peptide
1	c	333	ASP	Peptide
1	d	333	ASP	Peptide
1	e	333	ASP	Peptide
1	f	333	ASP	Peptide
1	g	333	ASP	Peptide
1	h	333	ASP	Peptide
1	i	333	ASP	Peptide

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Mol	Chain	Res	Type	Group
1	j	333	ASP	Peptide
1	k	333	ASP	Peptide
1	l	333	ASP	Peptide
1	m	333	ASP	Peptide
1	n	333	ASP	Peptide
1	o	333	ASP	Peptide
1	p	333	ASP	Peptide
1	q	333	ASP	Peptide
1	r	333	ASP	Peptide
1	s	333	ASP	Peptide
1	t	333	ASP	Peptide
1	u	333	ASP	Peptide
1	v	333	ASP	Peptide
1	w	333	ASP	Peptide
1	x	333	ASP	Peptide
1	y	333	ASP	Peptide
1	z	333	ASP	Peptide

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	4063	0	3828	218	0
1	2	4063	0	3828	213	0
1	3	4063	0	3828	215	0
1	4	4063	0	3828	213	0
1	5	4063	0	3828	213	0
1	6	4063	0	3828	215	0
1	7	4063	0	3828	214	0
1	8	4063	0	3828	216	0
1	A	4063	0	3828	216	0
1	B	4063	0	3828	218	0
1	C	4063	0	3828	212	0
1	D	4063	0	3828	210	0
1	E	4063	0	3828	212	0
1	F	4063	0	3828	216	0
1	G	4063	0	3828	216	0
1	H	4063	0	3828	210	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	I	4063	0	3828	217	0
1	J	4063	0	3828	212	0
1	K	4063	0	3828	212	0
1	L	4063	0	3828	212	0
1	M	4063	0	3828	213	0
1	N	4063	0	3828	210	0
1	O	4063	0	3828	213	0
1	P	4063	0	3828	209	0
1	Q	4063	0	3828	217	0
1	R	4063	0	3828	215	0
1	S	4063	0	3828	215	0
1	T	4063	0	3828	211	0
1	U	4063	0	3828	216	0
1	V	4063	0	3828	218	0
1	W	4063	0	3828	212	0
1	X	4063	0	3828	215	0
1	Y	4063	0	3828	213	0
1	Z	4063	0	3828	216	0
1	a	4063	0	3828	214	0
1	b	4063	0	3828	212	0
1	c	4063	0	3828	215	0
1	d	4063	0	3828	213	0
1	e	4063	0	3828	214	0
1	f	4063	0	3828	210	0
1	g	4063	0	3828	211	0
1	h	4063	0	3828	211	0
1	i	4063	0	3828	210	0
1	j	4063	0	3828	208	0
1	k	4063	0	3828	211	0
1	l	4063	0	3828	214	0
1	m	4063	0	3828	206	0
1	n	4063	0	3828	211	0
1	o	4063	0	3828	214	0
1	p	4063	0	3828	218	0
1	q	4063	0	3828	215	0
1	r	4063	0	3828	216	0
1	s	4063	0	3828	216	0
1	t	4063	0	3828	215	0
1	u	4063	0	3828	215	0
1	v	4063	0	3828	212	0
1	w	4063	0	3828	214	0
1	x	4063	0	3828	216	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	y	4063	0	3828	215	0
1	z	4063	0	3828	213	0
2	1	2	0	0	0	0
2	2	2	0	0	0	0
2	3	2	0	0	0	0
2	4	2	0	0	0	0
2	5	2	0	0	0	0
2	6	2	0	0	0	0
2	7	2	0	0	0	0
2	8	2	0	0	0	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
2	G	2	0	0	0	0
2	H	2	0	0	0	0
2	I	2	0	0	0	0
2	J	2	0	0	0	0
2	K	2	0	0	0	0
2	L	2	0	0	0	0
2	M	2	0	0	0	0
2	N	2	0	0	0	0
2	O	2	0	0	0	0
2	P	2	0	0	0	0
2	Q	2	0	0	0	0
2	R	2	0	0	0	0
2	S	2	0	0	0	0
2	T	2	0	0	0	0
2	U	2	0	0	0	0
2	V	2	0	0	0	0
2	W	2	0	0	0	0
2	X	2	0	0	0	0
2	Y	2	0	0	0	0
2	Z	2	0	0	0	0
2	a	2	0	0	0	0
2	b	2	0	0	0	0
2	c	2	0	0	0	0
2	d	2	0	0	0	0
2	e	2	0	0	0	0
2	f	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	g	2	0	0	0	0
2	h	2	0	0	0	0
2	i	2	0	0	0	0
2	j	2	0	0	0	0
2	k	2	0	0	0	0
2	l	2	0	0	0	0
2	m	2	0	0	0	0
2	n	2	0	0	0	0
2	o	2	0	0	0	0
2	p	2	0	0	0	0
2	q	2	0	0	0	0
2	r	2	0	0	0	0
2	s	2	0	0	0	0
2	t	2	0	0	0	0
2	u	2	0	0	0	0
2	v	2	0	0	0	0
2	w	2	0	0	0	0
2	x	2	0	0	0	0
2	y	2	0	0	0	0
2	z	2	0	0	0	0
All	All	243900	0	229680	9870	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 21.

All (9870) 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:d:327:GLN:HE21	1:d:329:ARG:HD3	1.44	0.83
1:n:327:GLN:HE21	1:n:329:ARG:HD3	1.44	0.83
1:R:327:GLN:HE21	1:R:329:ARG:HD3	1.44	0.83
1:W:194:THR:HG21	1:W:216:ALA:H	1.44	0.83
1:q:327:GLN:HE21	1:q:329:ARG:HD3	1.44	0.83
1:z:327:GLN:HE21	1:z:329:ARG:HD3	1.44	0.83
1:L:327:GLN:HE21	1:L:329:ARG:HD3	1.44	0.83
1:V:327:GLN:HE21	1:V:329:ARG:HD3	1.44	0.83
1:p:327:GLN:HE21	1:p:329:ARG:HD3	1.44	0.83
1:4:327:GLN:HE21	1:4:329:ARG:HD3	1.44	0.83
1:6:194:THR:HG21	1:6:216:ALA:H	1.44	0.83
1:E:327:GLN:HE21	1:E:329:ARG:HD3	1.44	0.83
1:K:327:GLN:HE21	1:K:329:ARG:HD3	1.44	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:327:GLN:HE21	1:U:329:ARG:HD3	1.44	0.83
1:i:424:GLU:H	1:k:535:ASN:HD22	1.27	0.83
1:b:194:THR:HG21	1:b:216:ALA:H	1.44	0.83
1:e:194:THR:HG21	1:e:216:ALA:H	1.44	0.83
1:w:327:GLN:HE21	1:w:329:ARG:HD3	1.44	0.83
1:D:535:ASN:HD22	1:N:424:GLU:H	1.27	0.82
1:c:194:THR:HG21	1:c:216:ALA:H	1.44	0.82
1:f:194:THR:HG21	1:f:216:ALA:H	1.44	0.82
1:s:327:GLN:HE21	1:s:329:ARG:HD3	1.44	0.82
1:O:424:GLU:H	1:n:535:ASN:HD22	1.28	0.82
1:d:535:ASN:HD22	1:l:424:GLU:H	1.28	0.82
1:f:535:ASN:HD22	1:h:424:GLU:H	1.27	0.82
1:g:194:THR:HG21	1:g:216:ALA:H	1.44	0.82
1:2:194:THR:HG21	1:2:216:ALA:H	1.44	0.82
1:C:194:THR:HG21	1:C:216:ALA:H	1.44	0.82
1:c:327:GLN:HE21	1:c:329:ARG:HD3	1.44	0.82
1:I:194:THR:HG21	1:I:216:ALA:H	1.44	0.82
1:J:194:THR:HG21	1:J:216:ALA:H	1.44	0.82
1:M:424:GLU:H	1:b:535:ASN:HD22	1.27	0.82
1:T:327:GLN:HE21	1:T:329:ARG:HD3	1.44	0.82
1:e:327:GLN:HE21	1:e:329:ARG:HD3	1.44	0.82
1:f:327:GLN:HE21	1:f:329:ARG:HD3	1.44	0.82
1:j:327:GLN:HE21	1:j:329:ARG:HD3	1.44	0.82
1:m:327:GLN:HE21	1:m:329:ARG:HD3	1.44	0.82
1:P:327:GLN:HE21	1:P:329:ARG:HD3	1.44	0.82
1:M:327:GLN:HE21	1:M:329:ARG:HD3	1.44	0.82
1:b:327:GLN:HE21	1:b:329:ARG:HD3	1.44	0.82
1:L:194:THR:HG21	1:L:216:ALA:H	1.44	0.82
1:N:327:GLN:HE21	1:N:329:ARG:HD3	1.44	0.82
1:T:194:THR:HG21	1:T:216:ALA:H	1.44	0.82
1:X:194:THR:HG21	1:X:216:ALA:H	1.44	0.82
1:i:327:GLN:HE21	1:i:329:ARG:HD3	1.44	0.82
1:u:194:THR:HG21	1:u:216:ALA:H	1.44	0.82
1:z:194:THR:HG21	1:z:216:ALA:H	1.44	0.82
1:6:535:ASN:HD22	1:7:424:GLU:H	1.27	0.82
1:S:194:THR:HG21	1:S:216:ALA:H	1.44	0.82
1:W:535:ASN:HD22	1:Y:424:GLU:H	1.27	0.82
1:m:194:THR:HG21	1:m:216:ALA:H	1.44	0.82
1:x:327:GLN:HE21	1:x:329:ARG:HD3	1.44	0.82
1:7:194:THR:HG21	1:7:216:ALA:H	1.44	0.82
1:G:535:ASN:HD22	1:I:424:GLU:H	1.27	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:327:GLN:HE21	1:Q:329:ARG:HD3	1.44	0.82
1:Y:194:THR:HG21	1:Y:216:ALA:H	1.44	0.82
1:Y:327:GLN:HE21	1:Y:329:ARG:HD3	1.44	0.82
1:h:327:GLN:HE21	1:h:329:ARG:HD3	1.44	0.82
1:o:194:THR:HG21	1:o:216:ALA:H	1.44	0.82
1:r:194:THR:HG21	1:r:216:ALA:H	1.44	0.82
1:t:535:ASN:HD22	1:u:424:GLU:H	1.27	0.82
1:G:194:THR:HG21	1:G:216:ALA:H	1.44	0.82
1:X:424:GLU:H	1:e:535:ASN:HD22	1.27	0.82
1:t:194:THR:HG21	1:t:216:ALA:H	1.44	0.82
1:x:535:ASN:HD22	1:y:424:GLU:H	1.27	0.82
1:3:194:THR:HG21	1:3:216:ALA:H	1.44	0.82
1:7:327:GLN:HE21	1:7:329:ARG:HD3	1.44	0.82
1:B:327:GLN:HE21	1:B:329:ARG:HD3	1.44	0.81
1:B:424:GLU:H	1:L:535:ASN:HD22	1.27	0.81
1:B:535:ASN:HD22	1:J:424:GLU:H	1.26	0.81
1:H:327:GLN:HE21	1:H:329:ARG:HD3	1.44	0.81
1:Q:194:THR:HG21	1:Q:216:ALA:H	1.44	0.81
1:V:194:THR:HG21	1:V:216:ALA:H	1.44	0.81
1:W:327:GLN:HE21	1:W:329:ARG:HD3	1.44	0.81
1:a:194:THR:HG21	1:a:216:ALA:H	1.44	0.81
1:i:535:ASN:HD22	1:j:424:GLU:H	1.27	0.81
1:l:194:THR:HG21	1:l:216:ALA:H	1.44	0.81
1:v:327:GLN:HE21	1:v:329:ARG:HD3	1.44	0.81
1:5:327:GLN:HE21	1:5:329:ARG:HD3	1.44	0.81
1:6:327:GLN:HE21	1:6:329:ARG:HD3	1.44	0.81
1:F:194:THR:HG21	1:F:216:ALA:H	1.44	0.81
1:F:424:GLU:H	1:Q:535:ASN:HD22	1.27	0.81
1:J:535:ASN:HD22	1:L:424:GLU:H	1.28	0.81
1:O:194:THR:HG21	1:O:216:ALA:H	1.44	0.81
1:O:535:ASN:HD22	1:m:424:GLU:H	1.28	0.81
1:q:535:ASN:HD22	1:r:424:GLU:H	1.27	0.81
1:y:194:THR:HG21	1:y:216:ALA:H	1.44	0.81
1:z:424:GLU:H	1:2:535:ASN:HD22	1.27	0.81
1:A:327:GLN:HE21	1:A:329:ARG:HD3	1.44	0.81
1:N:535:ASN:HD22	1:P:424:GLU:H	1.27	0.81
1:R:535:ASN:HD22	1:S:424:GLU:H	1.27	0.81
1:S:327:GLN:HE21	1:S:329:ARG:HD3	1.44	0.81
1:T:424:GLU:H	1:l:535:ASN:HD22	1.28	0.81
1:c:535:ASN:HD22	1:o:424:GLU:H	1.27	0.81
1:h:194:THR:HG21	1:h:216:ALA:H	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:194:THR:HG21	1:p:216:ALA:H	1.44	0.81
1:r:327:GLN:HE21	1:r:329:ARG:HD3	1.44	0.81
1:s:194:THR:HG21	1:s:216:ALA:H	1.44	0.81
1:x:194:THR:HG21	1:x:216:ALA:H	1.44	0.81
1:z:535:ASN:HD22	1:1:424:GLU:H	1.28	0.81
1:1:327:GLN:HE21	1:1:329:ARG:HD3	1.44	0.81
1:U:194:THR:HG21	1:U:216:ALA:H	1.44	0.81
1:l:327:GLN:HE21	1:l:329:ARG:HD3	1.44	0.81
1:8:194:THR:HG21	1:8:216:ALA:H	1.44	0.81
1:D:194:THR:HG21	1:D:216:ALA:H	1.44	0.81
1:E:535:ASN:HD22	1:Q:424:GLU:H	1.28	0.81
1:M:194:THR:HG21	1:M:216:ALA:H	1.44	0.81
1:q:424:GLU:H	1:s:535:ASN:HD22	1.28	0.81
1:w:535:ASN:HD22	1:x:424:GLU:H	1.27	0.81
1:1:535:ASN:HD22	1:2:424:GLU:H	1.27	0.81
1:J:327:GLN:HE21	1:J:329:ARG:HD3	1.44	0.81
1:V:535:ASN:HD22	1:e:424:GLU:H	1.27	0.81
1:g:327:GLN:HE21	1:g:329:ARG:HD3	1.44	0.81
1:t:327:GLN:HE21	1:t:329:ARG:HD3	1.44	0.81
1:G:327:GLN:HE21	1:G:329:ARG:HD3	1.44	0.81
1:R:424:GLU:H	1:U:535:ASN:HD22	1.28	0.81
1:X:327:GLN:HE21	1:X:329:ARG:HD3	1.44	0.81
1:Z:194:THR:HG21	1:Z:216:ALA:H	1.44	0.81
1:c:424:GLU:H	1:p:535:ASN:HD22	1.27	0.81
1:k:194:THR:HG21	1:k:216:ALA:H	1.44	0.81
1:u:327:GLN:HE21	1:u:329:ARG:HD3	1.44	0.81
1:2:327:GLN:HE21	1:2:329:ARG:HD3	1.44	0.81
1:C:327:GLN:HE21	1:C:329:ARG:HD3	1.44	0.81
1:F:327:GLN:HE21	1:F:329:ARG:HD3	1.44	0.81
1:H:194:THR:HG21	1:H:216:ALA:H	1.44	0.81
1:O:327:GLN:HE21	1:O:329:ARG:HD3	1.44	0.81
1:R:194:THR:HG21	1:R:216:ALA:H	1.44	0.81
1:Z:424:GLU:H	1:3:535:ASN:HD22	1.28	0.81
1:o:327:GLN:HE21	1:o:329:ARG:HD3	1.44	0.81
1:1:194:THR:HG21	1:1:216:ALA:H	1.44	0.81
1:I:327:GLN:HE21	1:I:329:ARG:HD3	1.44	0.80
1:a:535:ASN:HD22	1:8:424:GLU:H	1.28	0.80
1:k:327:GLN:HE21	1:k:329:ARG:HD3	1.44	0.80
1:q:194:THR:HG21	1:q:216:ALA:H	1.44	0.80
1:v:194:THR:HG21	1:v:216:ALA:H	1.44	0.80
1:y:327:GLN:HE21	1:y:329:ARG:HD3	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:194:THR:HG21	1:w:216:ALA:H	1.44	0.80
1:A:194:THR:HG21	1:A:216:ALA:H	1.44	0.80
1:B:194:THR:HG21	1:B:216:ALA:H	1.44	0.80
1:E:194:THR:HG21	1:E:216:ALA:H	1.44	0.80
1:Z:327:GLN:HE21	1:Z:329:ARG:HD3	1.44	0.80
1:d:194:THR:HG21	1:d:216:ALA:H	1.44	0.80
1:5:194:THR:HG21	1:5:216:ALA:H	1.44	0.80
1:D:327:GLN:HE21	1:D:329:ARG:HD3	1.44	0.80
1:5:535:ASN:HD22	1:6:424:GLU:H	1.27	0.80
1:H:535:ASN:HD22	1:W:424:GLU:H	1.27	0.80
1:n:194:THR:HG21	1:n:216:ALA:H	1.44	0.80
1:C:535:ASN:HD22	1:b:424:GLU:H	1.27	0.80
1:N:194:THR:HG21	1:N:216:ALA:H	1.44	0.80
1:P:194:THR:HG21	1:P:216:ALA:H	1.44	0.80
1:j:194:THR:HG21	1:j:216:ALA:H	1.44	0.80
1:o:535:ASN:HD22	1:p:424:GLU:H	1.28	0.80
1:4:194:THR:HG21	1:4:216:ALA:H	1.44	0.80
1:f:424:GLU:H	1:g:535:ASN:HD22	1.27	0.80
1:3:327:GLN:HE21	1:3:329:ARG:HD3	1.44	0.80
1:8:327:GLN:HE21	1:8:329:ARG:HD3	1.44	0.80
1:a:327:GLN:HE21	1:a:329:ARG:HD3	1.44	0.80
1:V:424:GLU:H	1:X:535:ASN:HD22	1.27	0.80
1:i:194:THR:HG21	1:i:216:ALA:H	1.44	0.80
1:A:424:GLU:H	1:I:535:ASN:HD22	1.27	0.79
1:K:194:THR:HG21	1:K:216:ALA:H	1.44	0.79
1:u:535:ASN:HD22	1:v:424:GLU:H	1.27	0.79
1:5:424:GLU:H	1:7:535:ASN:HD22	1.27	0.79
1:H:424:GLU:H	1:Y:535:ASN:HD22	1.27	0.79
1:D:424:GLU:H	1:P:535:ASN:HD22	1.27	0.79
1:w:424:GLU:H	1:y:535:ASN:HD22	1.27	0.79
1:Z:535:ASN:HD22	1:4:424:GLU:H	1.28	0.79
1:j:535:ASN:HD22	1:k:424:GLU:H	1.27	0.79
1:E:424:GLU:H	1:F:535:ASN:HD22	1.27	0.79
1:g:424:GLU:H	1:h:535:ASN:HD22	1.28	0.79
1:K:424:GLU:H	1:8:535:ASN:HD22	1.28	0.79
1:S:535:ASN:HD22	1:U:424:GLU:H	1.27	0.78
1:r:535:ASN:HD22	1:s:424:GLU:H	1.27	0.78
1:C:424:GLU:H	1:M:535:ASN:HD22	1.28	0.78
1:A:535:ASN:HD22	1:G:424:GLU:H	1.27	0.78
1:t:424:GLU:H	1:v:535:ASN:HD22	1.27	0.78
1:m:535:ASN:HD22	1:n:424:GLU:H	1.27	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:535:ASN:HD22	1:d:424:GLU:H	1.27	0.77
1:K:535:ASN:HD22	1:a:424:GLU:H	1.27	0.77
1:E:387:VAL:HG23	1:Q:397:VAL:HG22	1.67	0.77
1:q:397:VAL:HG22	1:s:387:VAL:HG23	1.67	0.77
1:C:387:VAL:HG23	1:b:397:VAL:HG22	1.67	0.77
1:f:397:VAL:HG22	1:g:387:VAL:HG23	1.67	0.77
1:K:387:VAL:HG23	1:a:397:VAL:HG22	1.67	0.76
1:R:397:VAL:HG22	1:U:387:VAL:HG23	1.68	0.76
1:w:387:VAL:HG23	1:x:397:VAL:HG22	1.67	0.76
1:c:387:VAL:HG23	1:o:397:VAL:HG22	1.68	0.76
1:3:397:VAL:HG22	1:4:387:VAL:HG23	1.67	0.76
1:3:424:GLU:H	1:4:535:ASN:HD22	1.27	0.76
1:D:397:VAL:HG22	1:P:387:VAL:HG23	1.68	0.76
1:X:397:VAL:HG22	1:e:387:VAL:HG23	1.68	0.76
1:j:387:VAL:HG23	1:k:397:VAL:HG22	1.68	0.76
1:5:397:VAL:HG22	1:7:387:VAL:HG23	1.67	0.76
1:Z:397:VAL:HG22	1:3:387:VAL:HG23	1.68	0.76
1:a:387:VAL:HG23	1:8:397:VAL:HG22	1.68	0.76
1:1:387:VAL:HG23	1:2:397:VAL:HG22	1.68	0.76
1:B:387:VAL:HG23	1:J:397:VAL:HG22	1.68	0.76
1:T:387:VAL:HG23	1:d:397:VAL:HG22	1.67	0.76
1:m:387:VAL:HG23	1:n:397:VAL:HG22	1.68	0.76
1:J:387:VAL:HG23	1:L:397:VAL:HG22	1.67	0.76
1:w:397:VAL:HG22	1:y:387:VAL:HG23	1.67	0.76
1:H:397:VAL:HG22	1:Y:387:VAL:HG23	1.68	0.76
1:z:397:VAL:HG22	1:2:387:VAL:HG23	1.68	0.76
1:E:397:VAL:HG22	1:F:387:VAL:HG23	1.67	0.76
1:O:387:VAL:HG23	1:m:397:VAL:HG22	1.67	0.76
1:O:397:VAL:HG22	1:n:387:VAL:HG23	1.68	0.76
1:T:397:VAL:HG22	1:l:387:VAL:HG23	1.67	0.76
1:M:397:VAL:HG22	1:b:387:VAL:HG23	1.68	0.75
1:d:387:VAL:HG23	1:l:397:VAL:HG22	1.68	0.75
1:f:387:VAL:HG23	1:h:397:VAL:HG22	1.68	0.75
1:x:387:VAL:HG23	1:y:397:VAL:HG22	1.67	0.75
1:W:387:VAL:HG23	1:Y:397:VAL:HG22	1.68	0.75
1:z:387:VAL:HG23	1:1:397:VAL:HG22	1.68	0.75
1:6:387:VAL:HG23	1:7:397:VAL:HG22	1.68	0.75
1:D:168:LEU:H	1:D:446:HIS:HE1	1.35	0.75
1:F:397:VAL:HG22	1:Q:387:VAL:HG23	1.67	0.75
1:K:397:VAL:HG22	1:8:387:VAL:HG23	1.67	0.75
1:N:168:LEU:H	1:N:446:HIS:HE1	1.35	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:387:VAL:HG23	1:4:397:VAL:HG22	1.67	0.75
1:i:168:LEU:H	1:i:446:HIS:HE1	1.35	0.75
1:V:387:VAL:HG23	1:e:397:VAL:HG22	1.67	0.75
1:k:168:LEU:H	1:k:446:HIS:HE1	1.35	0.75
1:G:387:VAL:HG23	1:I:397:VAL:HG22	1.67	0.75
1:H:387:VAL:HG23	1:W:397:VAL:HG22	1.68	0.75
1:K:168:LEU:H	1:K:446:HIS:CE1	2.05	0.75
1:c:397:VAL:HG22	1:p:387:VAL:HG23	1.67	0.75
1:v:168:LEU:H	1:v:446:HIS:CE1	2.05	0.75
1:4:168:LEU:H	1:4:446:HIS:CE1	2.05	0.75
1:5:387:VAL:HG23	1:6:397:VAL:HG22	1.68	0.75
1:A:168:LEU:H	1:A:446:HIS:CE1	2.05	0.75
1:f:168:LEU:H	1:f:446:HIS:HE1	1.35	0.75
1:t:387:VAL:HG23	1:u:397:VAL:HG22	1.67	0.75
1:4:168:LEU:H	1:4:446:HIS:HE1	1.35	0.75
1:5:168:LEU:H	1:5:446:HIS:CE1	2.05	0.75
1:5:168:LEU:H	1:5:446:HIS:HE1	1.35	0.75
1:B:397:VAL:HG22	1:L:387:VAL:HG23	1.68	0.75
1:F:168:LEU:H	1:F:446:HIS:CE1	2.05	0.75
1:H:168:LEU:H	1:H:446:HIS:CE1	2.05	0.75
1:H:168:LEU:H	1:H:446:HIS:HE1	1.35	0.75
1:K:168:LEU:H	1:K:446:HIS:HE1	1.35	0.75
1:Q:81:THR:HG23	1:Q:84:GLN:HG3	1.69	0.75
1:n:168:LEU:H	1:n:446:HIS:CE1	2.05	0.75
1:s:81:THR:HG23	1:s:84:GLN:HG3	1.69	0.75
1:x:81:THR:HG23	1:x:84:GLN:HG3	1.69	0.75
1:y:168:LEU:H	1:y:446:HIS:CE1	2.05	0.75
1:F:168:LEU:H	1:F:446:HIS:HE1	1.35	0.75
1:G:81:THR:HG23	1:G:84:GLN:HG3	1.69	0.75
1:W:81:THR:HG23	1:W:84:GLN:HG3	1.69	0.75
1:b:168:LEU:H	1:b:446:HIS:HE1	1.35	0.75
1:c:81:THR:HG23	1:c:84:GLN:HG3	1.69	0.75
1:d:168:LEU:H	1:d:446:HIS:CE1	2.05	0.75
1:o:168:LEU:H	1:o:446:HIS:HE1	1.35	0.75
1:q:168:LEU:H	1:q:446:HIS:HE1	1.35	0.75
1:y:168:LEU:H	1:y:446:HIS:HE1	1.35	0.75
1:V:168:LEU:H	1:V:446:HIS:CE1	2.05	0.74
1:o:387:VAL:HG23	1:p:397:VAL:HG22	1.67	0.74
1:p:168:LEU:H	1:p:446:HIS:CE1	2.05	0.74
1:t:81:THR:HG23	1:t:84:GLN:HG3	1.69	0.74
1:z:168:LEU:H	1:z:446:HIS:HE1	1.35	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:168:LEU:H	1:2:446:HIS:CE1	2.05	0.74
1:J:168:LEU:H	1:J:446:HIS:CE1	2.05	0.74
1:L:168:LEU:H	1:L:446:HIS:HE1	1.35	0.74
1:R:168:LEU:H	1:R:446:HIS:HE1	1.35	0.74
1:R:387:VAL:HG23	1:S:397:VAL:HG22	1.68	0.74
1:U:81:THR:HG23	1:U:84:GLN:HG3	1.69	0.74
1:V:397:VAL:HG22	1:X:387:VAL:HG23	1.67	0.74
1:X:168:LEU:H	1:X:446:HIS:CE1	2.05	0.74
1:X:168:LEU:H	1:X:446:HIS:HE1	1.35	0.74
1:Y:81:THR:HG23	1:Y:84:GLN:HG3	1.69	0.74
1:e:81:THR:HG23	1:e:84:GLN:HG3	1.69	0.74
1:6:81:THR:HG23	1:6:84:GLN:HG3	1.69	0.74
1:E:168:LEU:H	1:E:446:HIS:HE1	1.35	0.74
1:i:387:VAL:HG23	1:j:397:VAL:HG22	1.68	0.74
1:m:168:LEU:H	1:m:446:HIS:HE1	1.35	0.74
1:o:168:LEU:H	1:o:446:HIS:CE1	2.05	0.74
1:r:81:THR:HG23	1:r:84:GLN:HG3	1.69	0.74
1:w:168:LEU:H	1:w:446:HIS:HE1	1.35	0.74
1:8:81:THR:HG23	1:8:84:GLN:HG3	1.69	0.74
1:K:81:THR:HG23	1:K:84:GLN:HG3	1.69	0.74
1:N:387:VAL:HG23	1:P:397:VAL:HG22	1.68	0.74
1:S:81:THR:HG23	1:S:84:GLN:HG3	1.69	0.74
1:T:81:THR:HG23	1:T:84:GLN:HG3	1.69	0.74
1:T:168:LEU:H	1:T:446:HIS:HE1	1.35	0.74
1:Z:81:THR:HG23	1:Z:84:GLN:HG3	1.69	0.74
1:c:168:LEU:H	1:c:446:HIS:CE1	2.05	0.74
1:e:168:LEU:H	1:e:446:HIS:CE1	2.05	0.74
1:g:397:VAL:HG22	1:h:387:VAL:HG23	1.67	0.74
1:l:168:LEU:H	1:l:446:HIS:CE1	2.05	0.74
1:m:81:THR:HG23	1:m:84:GLN:HG3	1.69	0.74
1:q:387:VAL:HG23	1:r:397:VAL:HG22	1.68	0.74
1:s:168:LEU:H	1:s:446:HIS:CE1	2.05	0.74
1:w:168:LEU:H	1:w:446:HIS:CE1	2.05	0.74
1:E:168:LEU:H	1:E:446:HIS:CE1	2.05	0.74
1:O:168:LEU:H	1:O:446:HIS:CE1	2.05	0.74
1:S:387:VAL:HG23	1:U:397:VAL:HG22	1.68	0.74
1:U:168:LEU:H	1:U:446:HIS:HE1	1.35	0.74
1:Y:168:LEU:H	1:Y:446:HIS:CE1	2.05	0.74
1:s:168:LEU:H	1:s:446:HIS:HE1	1.35	0.74
1:7:81:THR:HG23	1:7:84:GLN:HG3	1.69	0.74
1:C:397:VAL:HG22	1:M:387:VAL:HG23	1.67	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:387:VAL:HG23	1:N:397:VAL:HG22	1.68	0.74
1:G:168:LEU:H	1:G:446:HIS:CE1	2.05	0.74
1:T:168:LEU:H	1:T:446:HIS:CE1	2.05	0.74
1:i:81:THR:HG23	1:i:84:GLN:HG3	1.69	0.74
1:l:81:THR:HG23	1:l:84:GLN:HG3	1.69	0.74
1:t:168:LEU:H	1:t:446:HIS:CE1	2.05	0.74
1:t:397:VAL:HG22	1:v:387:VAL:HG23	1.67	0.74
1:7:168:LEU:H	1:7:446:HIS:CE1	2.05	0.74
1:8:168:LEU:H	1:8:446:HIS:CE1	2.05	0.74
1:I:331:GLU:HG3	1:I:334:LYS:HG3	1.70	0.74
1:N:81:THR:HG23	1:N:84:GLN:HG3	1.69	0.74
1:Q:168:LEU:H	1:Q:446:HIS:CE1	2.05	0.74
1:U:168:LEU:H	1:U:446:HIS:CE1	2.05	0.74
1:m:168:LEU:H	1:m:446:HIS:CE1	2.05	0.74
1:r:387:VAL:HG23	1:s:397:VAL:HG22	1.67	0.74
1:u:331:GLU:HG3	1:u:334:LYS:HG3	1.70	0.74
1:4:81:THR:HG23	1:4:84:GLN:HG3	1.69	0.74
1:A:387:VAL:HG23	1:G:397:VAL:HG22	1.67	0.74
1:F:331:GLU:HG3	1:F:334:LYS:HG3	1.70	0.74
1:J:81:THR:HG23	1:J:84:GLN:HG3	1.69	0.74
1:N:168:LEU:H	1:N:446:HIS:CE1	2.05	0.74
1:O:81:THR:HG23	1:O:84:GLN:HG3	1.69	0.74
1:U:331:GLU:HG3	1:U:334:LYS:HG3	1.70	0.74
1:Z:168:LEU:H	1:Z:446:HIS:CE1	2.05	0.74
1:d:81:THR:HG23	1:d:84:GLN:HG3	1.69	0.74
1:f:81:THR:HG23	1:f:84:GLN:HG3	1.69	0.74
1:i:397:VAL:HG22	1:k:387:VAL:HG23	1.68	0.74
1:n:81:THR:HG23	1:n:84:GLN:HG3	1.69	0.74
1:n:331:GLU:HG3	1:n:334:LYS:HG3	1.70	0.74
1:r:331:GLU:HG3	1:r:334:LYS:HG3	1.70	0.74
1:s:331:GLU:HG3	1:s:334:LYS:HG3	1.70	0.74
1:x:168:LEU:H	1:x:446:HIS:CE1	2.05	0.74
1:A:168:LEU:H	1:A:446:HIS:HE1	1.35	0.74
1:S:331:GLU:HG3	1:S:334:LYS:HG3	1.70	0.74
1:X:81:THR:HG23	1:X:84:GLN:HG3	1.69	0.74
1:b:81:THR:HG23	1:b:84:GLN:HG3	1.69	0.74
1:d:331:GLU:HG3	1:d:334:LYS:HG3	1.70	0.74
1:i:331:GLU:HG3	1:i:334:LYS:HG3	1.70	0.74
1:j:168:LEU:H	1:j:446:HIS:CE1	2.05	0.74
1:l:168:LEU:H	1:l:446:HIS:HE1	1.35	0.74
1:y:331:GLU:HG3	1:y:334:LYS:HG3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:81:THR:HG23	1:2:84:GLN:HG3	1.69	0.74
1:2:168:LEU:H	1:2:446:HIS:HE1	1.35	0.74
1:3:81:THR:HG23	1:3:84:GLN:HG3	1.69	0.74
1:6:168:LEU:H	1:6:446:HIS:CE1	2.05	0.74
1:H:331:GLU:HG3	1:H:334:LYS:HG3	1.70	0.74
1:K:331:GLU:HG3	1:K:334:LYS:HG3	1.70	0.74
1:N:331:GLU:HG3	1:N:334:LYS:HG3	1.70	0.74
1:P:168:LEU:H	1:P:446:HIS:CE1	2.05	0.74
1:W:168:LEU:H	1:W:446:HIS:CE1	2.05	0.74
1:W:331:GLU:HG3	1:W:334:LYS:HG3	1.70	0.74
1:a:81:THR:HG23	1:a:84:GLN:HG3	1.69	0.74
1:g:81:THR:HG23	1:g:84:GLN:HG3	1.69	0.74
1:o:81:THR:HG23	1:o:84:GLN:HG3	1.69	0.74
1:q:81:THR:HG23	1:q:84:GLN:HG3	1.69	0.74
1:v:81:THR:HG23	1:v:84:GLN:HG3	1.69	0.74
1:4:331:GLU:HG3	1:4:334:LYS:HG3	1.70	0.74
1:A:81:THR:HG23	1:A:84:GLN:HG3	1.69	0.73
1:B:331:GLU:HG3	1:B:334:LYS:HG3	1.70	0.73
1:F:81:THR:HG23	1:F:84:GLN:HG3	1.69	0.73
1:L:168:LEU:H	1:L:446:HIS:CE1	2.05	0.73
1:O:168:LEU:H	1:O:446:HIS:HE1	1.35	0.73
1:R:168:LEU:H	1:R:446:HIS:CE1	2.05	0.73
1:i:168:LEU:H	1:i:446:HIS:CE1	2.05	0.73
1:k:168:LEU:H	1:k:446:HIS:CE1	2.05	0.73
1:p:81:THR:HG23	1:p:84:GLN:HG3	1.69	0.73
1:q:168:LEU:H	1:q:446:HIS:CE1	2.05	0.73
1:5:331:GLU:HG3	1:5:334:LYS:HG3	1.70	0.73
1:6:331:GLU:HG3	1:6:334:LYS:HG3	1.70	0.73
1:C:81:THR:HG23	1:C:84:GLN:HG3	1.69	0.73
1:H:81:THR:HG23	1:H:84:GLN:HG3	1.69	0.73
1:J:168:LEU:H	1:J:446:HIS:HE1	1.35	0.73
1:L:331:GLU:HG3	1:L:334:LYS:HG3	1.70	0.73
1:M:81:THR:HG23	1:M:84:GLN:HG3	1.69	0.73
1:M:168:LEU:H	1:M:446:HIS:CE1	2.05	0.73
1:R:81:THR:HG23	1:R:84:GLN:HG3	1.69	0.73
1:V:81:THR:HG23	1:V:84:GLN:HG3	1.69	0.73
1:V:168:LEU:H	1:V:446:HIS:HE1	1.35	0.73
1:f:168:LEU:H	1:f:446:HIS:CE1	2.05	0.73
1:u:168:LEU:H	1:u:446:HIS:CE1	2.05	0.73
1:v:168:LEU:H	1:v:446:HIS:HE1	1.35	0.73
1:z:168:LEU:H	1:z:446:HIS:CE1	2.05	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:331:GLU:HG3	1:z:334:LYS:HG3	1.70	0.73
1:1:168:LEU:H	1:1:446:HIS:CE1	2.05	0.73
1:B:168:LEU:H	1:B:446:HIS:CE1	2.05	0.73
1:D:168:LEU:H	1:D:446:HIS:CE1	2.05	0.73
1:I:168:LEU:H	1:I:446:HIS:CE1	2.05	0.73
1:h:81:THR:HG23	1:h:84:GLN:HG3	1.69	0.73
1:h:168:LEU:H	1:h:446:HIS:CE1	2.05	0.73
1:y:81:THR:HG23	1:y:84:GLN:HG3	1.69	0.73
1:5:81:THR:HG23	1:5:84:GLN:HG3	1.69	0.73
1:C:168:LEU:H	1:C:446:HIS:HE1	1.35	0.73
1:b:168:LEU:H	1:b:446:HIS:CE1	2.05	0.73
1:u:387:VAL:HG23	1:v:397:VAL:HG22	1.67	0.73
1:1:331:GLU:HG3	1:1:334:LYS:HG3	1.70	0.73
1:E:81:THR:HG23	1:E:84:GLN:HG3	1.69	0.73
1:P:331:GLU:HG3	1:P:334:LYS:HG3	1.70	0.73
1:n:168:LEU:H	1:n:446:HIS:HE1	1.35	0.73
1:p:168:LEU:H	1:p:446:HIS:HE1	1.35	0.73
1:u:81:THR:HG23	1:u:84:GLN:HG3	1.69	0.73
1:w:81:THR:HG23	1:w:84:GLN:HG3	1.69	0.73
1:I:81:THR:HG23	1:I:84:GLN:HG3	1.69	0.73
1:W:168:LEU:H	1:W:446:HIS:HE1	1.35	0.73
1:a:168:LEU:H	1:a:446:HIS:CE1	2.05	0.73
1:g:168:LEU:H	1:g:446:HIS:HE1	1.35	0.73
1:g:168:LEU:H	1:g:446:HIS:CE1	2.05	0.73
1:6:168:LEU:H	1:6:446:HIS:HE1	1.35	0.73
1:A:397:VAL:HG22	1:I:387:VAL:HG23	1.67	0.73
1:L:81:THR:HG23	1:L:84:GLN:HG3	1.69	0.73
1:O:331:GLU:HG3	1:O:334:LYS:HG3	1.70	0.73
1:S:168:LEU:H	1:S:446:HIS:CE1	2.05	0.73
1:b:331:GLU:HG3	1:b:334:LYS:HG3	1.70	0.73
1:f:331:GLU:HG3	1:f:334:LYS:HG3	1.70	0.73
1:j:331:GLU:HG3	1:j:334:LYS:HG3	1.70	0.73
1:l:331:GLU:HG3	1:l:334:LYS:HG3	1.70	0.73
1:z:81:THR:HG23	1:z:84:GLN:HG3	1.69	0.73
1:3:168:LEU:H	1:3:446:HIS:CE1	2.05	0.73
1:8:168:LEU:H	1:8:446:HIS:HE1	1.35	0.73
1:C:168:LEU:H	1:C:446:HIS:CE1	2.05	0.73
1:D:81:THR:HG23	1:D:84:GLN:HG3	1.69	0.73
1:G:168:LEU:H	1:G:446:HIS:HE1	1.35	0.73
1:d:168:LEU:H	1:d:446:HIS:HE1	1.35	0.73
1:Z:168:LEU:H	1:Z:446:HIS:HE1	1.35	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:168:LEU:H	1:r:446:HIS:CE1	2.05	0.73
1:W:262:PRO:HG3	1:Y:193:MET:HG3	1.71	0.73
1:k:81:THR:HG23	1:k:84:GLN:HG3	1.69	0.73
1:t:168:LEU:H	1:t:446:HIS:HE1	1.35	0.73
1:6:262:PRO:HG3	1:7:193:MET:HG3	1.71	0.73
1:A:331:GLU:HG3	1:A:334:LYS:HG3	1.70	0.72
1:Q:331:GLU:HG3	1:Q:334:LYS:HG3	1.70	0.72
1:x:331:GLU:HG3	1:x:334:LYS:HG3	1.70	0.72
1:J:331:GLU:HG3	1:J:334:LYS:HG3	1.70	0.72
1:v:331:GLU:HG3	1:v:334:LYS:HG3	1.70	0.72
1:7:168:LEU:H	1:7:446:HIS:HE1	1.35	0.72
1:i:193:MET:HG3	1:k:262:PRO:HG3	1.71	0.72
1:C:331:GLU:HG3	1:C:334:LYS:HG3	1.70	0.72
1:D:262:PRO:HG3	1:N:193:MET:HG3	1.71	0.72
1:Y:168:LEU:H	1:Y:446:HIS:HE1	1.35	0.72
1:Z:331:GLU:HG3	1:Z:334:LYS:HG3	1.70	0.72
1:j:262:PRO:HG3	1:k:193:MET:HG3	1.71	0.72
1:p:331:GLU:HG3	1:p:334:LYS:HG3	1.70	0.72
1:2:331:GLU:HG3	1:2:334:LYS:HG3	1.70	0.72
1:8:331:GLU:HG3	1:8:334:LYS:HG3	1.70	0.72
1:D:193:MET:HG3	1:P:262:PRO:HG3	1.71	0.72
1:E:262:PRO:HG3	1:Q:193:MET:HG3	1.71	0.72
1:S:262:PRO:HG3	1:U:193:MET:HG3	1.72	0.72
1:V:193:MET:HG3	1:X:262:PRO:HG3	1.71	0.72
1:V:331:GLU:HG3	1:V:334:LYS:HG3	1.70	0.72
1:g:331:GLU:HG3	1:g:334:LYS:HG3	1.70	0.72
1:h:168:LEU:H	1:h:446:HIS:HE1	1.35	0.72
1:o:262:PRO:HG3	1:p:193:MET:HG3	1.71	0.72
1:P:81:THR:HG23	1:P:84:GLN:HG3	1.69	0.72
1:h:331:GLU:HG3	1:h:334:LYS:HG3	1.70	0.72
1:q:193:MET:HG3	1:s:262:PRO:HG3	1.72	0.72
1:r:262:PRO:HG3	1:s:193:MET:HG3	1.72	0.72
1:w:262:PRO:HG3	1:x:193:MET:HG3	1.71	0.72
1:E:193:MET:HG3	1:F:262:PRO:HG3	1.72	0.72
1:M:168:LEU:H	1:M:446:HIS:HE1	1.35	0.72
1:m:331:GLU:HG3	1:m:334:LYS:HG3	1.70	0.72
1:B:81:THR:HG23	1:B:84:GLN:HG3	1.69	0.72
1:D:331:GLU:HG3	1:D:334:LYS:HG3	1.70	0.72
1:M:331:GLU:HG3	1:M:334:LYS:HG3	1.70	0.72
1:R:193:MET:HG3	1:U:262:PRO:HG3	1.72	0.72
1:T:331:GLU:HG3	1:T:334:LYS:HG3	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:331:GLU:HG3	1:a:334:LYS:HG3	1.70	0.72
1:k:331:GLU:HG3	1:k:334:LYS:HG3	1.70	0.72
1:w:193:MET:HG3	1:y:262:PRO:HG3	1.72	0.72
1:4:196:MET:HB2	1:4:210:PHE:HB3	1.72	0.72
1:7:331:GLU:HG3	1:7:334:LYS:HG3	1.70	0.72
1:I:168:LEU:H	1:I:446:HIS:HE1	1.35	0.72
1:K:196:MET:HB2	1:K:210:PHE:HB3	1.72	0.72
1:P:196:MET:HB2	1:P:210:PHE:HB3	1.72	0.72
1:R:196:MET:HB2	1:R:210:PHE:HB3	1.72	0.72
1:S:168:LEU:H	1:S:446:HIS:HE1	1.35	0.72
1:c:168:LEU:H	1:c:446:HIS:HE1	1.35	0.72
1:e:168:LEU:H	1:e:446:HIS:HE1	1.35	0.72
1:j:81:THR:HG23	1:j:84:GLN:HG3	1.69	0.72
1:o:331:GLU:HG3	1:o:334:LYS:HG3	1.70	0.72
1:q:196:MET:HB2	1:q:210:PHE:HB3	1.72	0.72
1:t:331:GLU:HG3	1:t:334:LYS:HG3	1.70	0.72
1:u:168:LEU:H	1:u:446:HIS:HE1	1.35	0.72
1:1:81:THR:HG23	1:1:84:GLN:HG3	1.69	0.72
1:3:168:LEU:H	1:3:446:HIS:HE1	1.35	0.72
1:3:331:GLU:HG3	1:3:334:LYS:HG3	1.70	0.72
1:G:331:GLU:HG3	1:G:334:LYS:HG3	1.70	0.72
1:M:193:MET:HG3	1:b:262:PRO:HG3	1.72	0.72
1:O:262:PRO:HG3	1:m:193:MET:HG3	1.72	0.72
1:X:196:MET:HB2	1:X:210:PHE:HB3	1.72	0.72
1:a:168:LEU:H	1:a:446:HIS:HE1	1.35	0.72
1:e:331:GLU:HG3	1:e:334:LYS:HG3	1.70	0.72
1:j:196:MET:HB2	1:j:210:PHE:HB3	1.72	0.72
1:o:196:MET:HB2	1:o:210:PHE:HB3	1.72	0.72
1:r:168:LEU:H	1:r:446:HIS:HE1	1.35	0.72
1:E:196:MET:HB2	1:E:210:PHE:HB3	1.72	0.71
1:O:196:MET:HB2	1:O:210:PHE:HB3	1.72	0.71
1:T:193:MET:HG3	1:l:262:PRO:HG3	1.72	0.71
1:W:196:MET:HB2	1:W:210:PHE:HB3	1.72	0.71
1:Y:331:GLU:HG3	1:Y:334:LYS:HG3	1.70	0.71
1:c:331:GLU:HG3	1:c:334:LYS:HG3	1.70	0.71
1:e:196:MET:HB2	1:e:210:PHE:HB3	1.72	0.71
1:f:262:PRO:HG3	1:h:193:MET:HG3	1.72	0.71
1:l:196:MET:HB2	1:l:210:PHE:HB3	1.72	0.71
1:w:196:MET:HB2	1:w:210:PHE:HB3	1.72	0.71
1:E:331:GLU:HG3	1:E:334:LYS:HG3	1.70	0.71
1:L:196:MET:HB2	1:L:210:PHE:HB3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:168:LEU:H	1:P:446:HIS:HE1	1.35	0.71
1:X:331:GLU:HG3	1:X:334:LYS:HG3	1.70	0.71
1:c:196:MET:HB2	1:c:210:PHE:HB3	1.72	0.71
1:z:196:MET:HB2	1:z:210:PHE:HB3	1.72	0.71
1:2:196:MET:HB2	1:2:210:PHE:HB3	1.72	0.71
1:5:193:MET:HG3	1:7:262:PRO:HG3	1.72	0.71
1:6:196:MET:HB2	1:6:210:PHE:HB3	1.72	0.71
1:H:196:MET:HB2	1:H:210:PHE:HB3	1.72	0.71
1:J:196:MET:HB2	1:J:210:PHE:HB3	1.72	0.71
1:Q:168:LEU:H	1:Q:446:HIS:HE1	1.35	0.71
1:T:262:PRO:HG3	1:d:193:MET:HG3	1.72	0.71
1:B:168:LEU:H	1:B:446:HIS:HE1	1.35	0.71
1:H:193:MET:HG3	1:Y:262:PRO:HG3	1.72	0.71
1:Q:196:MET:HB2	1:Q:210:PHE:HB3	1.72	0.71
1:Z:196:MET:HB2	1:Z:210:PHE:HB3	1.72	0.71
1:m:262:PRO:HG3	1:n:193:MET:HG3	1.72	0.71
1:w:331:GLU:HG3	1:w:334:LYS:HG3	1.70	0.71
1:x:196:MET:HB2	1:x:210:PHE:HB3	1.72	0.71
1:5:196:MET:HB2	1:5:210:PHE:HB3	1.72	0.71
1:M:196:MET:HB2	1:M:210:PHE:HB3	1.72	0.71
1:b:196:MET:HB2	1:b:210:PHE:HB3	1.72	0.71
1:d:262:PRO:HG3	1:l:193:MET:HG3	1.72	0.71
1:f:193:MET:HG3	1:g:262:PRO:HG3	1.72	0.71
1:j:168:LEU:H	1:j:446:HIS:HE1	1.35	0.71
1:x:168:LEU:H	1:x:446:HIS:HE1	1.35	0.71
1:8:196:MET:HB2	1:8:210:PHE:HB3	1.72	0.71
1:d:196:MET:HB2	1:d:210:PHE:HB3	1.72	0.71
1:h:196:MET:HB2	1:h:210:PHE:HB3	1.72	0.71
1:H:262:PRO:HG3	1:W:193:MET:HG3	1.71	0.71
1:O:193:MET:HG3	1:n:262:PRO:HG3	1.72	0.71
1:f:196:MET:HB2	1:f:210:PHE:HB3	1.72	0.71
1:i:262:PRO:HG3	1:j:193:MET:HG3	1.72	0.71
1:n:196:MET:HB2	1:n:210:PHE:HB3	1.72	0.71
1:l:168:LEU:H	1:l:446:HIS:HE1	1.35	0.71
1:C:262:PRO:HG3	1:b:193:MET:HG3	1.72	0.71
1:J:262:PRO:HG3	1:L:193:MET:HG3	1.72	0.71
1:K:262:PRO:HG3	1:a:193:MET:HG3	1.72	0.71
1:X:193:MET:HG3	1:e:262:PRO:HG3	1.72	0.71
1:3:193:MET:HG3	1:4:262:PRO:HG3	1.72	0.71
1:C:196:MET:HB2	1:C:210:PHE:HB3	1.72	0.71
1:N:262:PRO:HG3	1:P:193:MET:HG3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:331:GLU:HG3	1:R:334:LYS:HG3	1.70	0.71
1:g:193:MET:HG3	1:h:262:PRO:HG3	1.71	0.71
1:q:331:GLU:HG3	1:q:334:LYS:HG3	1.70	0.71
1:z:193:MET:HG3	1:2:262:PRO:HG3	1.72	0.71
1:C:193:MET:HG3	1:M:262:PRO:HG3	1.71	0.71
1:T:196:MET:HB2	1:T:210:PHE:HB3	1.72	0.71
1:c:262:PRO:HG3	1:o:193:MET:HG3	1.72	0.71
1:g:196:MET:HB2	1:g:210:PHE:HB3	1.72	0.71
1:i:228:LEU:HD11	1:i:234:TRP:HB2	1.73	0.71
1:2:228:LEU:HD11	1:2:234:TRP:HB2	1.73	0.71
1:5:262:PRO:HG3	1:6:193:MET:HG3	1.72	0.71
1:A:193:MET:HG3	1:I:262:PRO:HG3	1.72	0.70
1:G:262:PRO:HG3	1:I:193:MET:HG3	1.71	0.70
1:J:228:LEU:HD11	1:J:234:TRP:HB2	1.73	0.70
1:N:228:LEU:HD11	1:N:234:TRP:HB2	1.73	0.70
1:Y:196:MET:HB2	1:Y:210:PHE:HB3	1.72	0.70
1:Z:228:LEU:HD11	1:Z:234:TRP:HB2	1.73	0.70
1:c:228:LEU:HD11	1:c:234:TRP:HB2	1.73	0.70
1:t:196:MET:HB2	1:t:210:PHE:HB3	1.72	0.70
1:x:228:LEU:HD11	1:x:234:TRP:HB2	1.73	0.70
1:8:228:LEU:HD11	1:8:234:TRP:HB2	1.73	0.70
1:B:262:PRO:HG3	1:J:193:MET:HG3	1.72	0.70
1:F:193:MET:HG3	1:Q:262:PRO:HG3	1.72	0.70
1:G:228:LEU:HD11	1:G:234:TRP:HB2	1.73	0.70
1:Q:228:LEU:HD11	1:Q:234:TRP:HB2	1.73	0.70
1:e:228:LEU:HD11	1:e:234:TRP:HB2	1.73	0.70
1:m:196:MET:HB2	1:m:210:PHE:HB3	1.72	0.70
1:t:228:LEU:HD11	1:t:234:TRP:HB2	1.73	0.70
1:t:262:PRO:HG3	1:u:193:MET:HG3	1.71	0.70
1:u:262:PRO:HG3	1:v:193:MET:HG3	1.72	0.70
1:y:196:MET:HB2	1:y:210:PHE:HB3	1.72	0.70
1:7:196:MET:HB2	1:7:210:PHE:HB3	1.72	0.70
1:G:196:MET:HB2	1:G:210:PHE:HB3	1.72	0.70
1:L:228:LEU:HD11	1:L:234:TRP:HB2	1.73	0.70
1:X:228:LEU:HD11	1:X:234:TRP:HB2	1.73	0.70
1:d:228:LEU:HD11	1:d:234:TRP:HB2	1.73	0.70
1:n:228:LEU:HD11	1:n:234:TRP:HB2	1.73	0.70
1:o:228:LEU:HD11	1:o:234:TRP:HB2	1.73	0.70
1:q:228:LEU:HD11	1:q:234:TRP:HB2	1.73	0.70
1:x:262:PRO:HG3	1:y:193:MET:HG3	1.72	0.70
1:1:196:MET:HB2	1:1:210:PHE:HB3	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:196:MET:HB2	1:B:210:PHE:HB3	1.72	0.70
1:F:196:MET:HB2	1:F:210:PHE:HB3	1.72	0.70
1:R:228:LEU:HD11	1:R:234:TRP:HB2	1.73	0.70
1:b:228:LEU:HD11	1:b:234:TRP:HB2	1.73	0.70
1:z:228:LEU:HD11	1:z:234:TRP:HB2	1.73	0.70
1:O:228:LEU:HD11	1:O:234:TRP:HB2	1.73	0.70
1:f:228:LEU:HD11	1:f:234:TRP:HB2	1.73	0.70
1:l:228:LEU:HD11	1:l:234:TRP:HB2	1.73	0.70
1:q:262:PRO:HG3	1:r:193:MET:HG3	1.72	0.70
1:u:228:LEU:HD11	1:u:234:TRP:HB2	1.73	0.70
1:E:228:LEU:HD11	1:E:234:TRP:HB2	1.73	0.70
1:I:196:MET:HB2	1:I:210:PHE:HB3	1.72	0.70
1:I:228:LEU:HD11	1:I:234:TRP:HB2	1.73	0.70
1:V:262:PRO:HG3	1:e:193:MET:HG3	1.72	0.70
1:Z:193:MET:HG3	1:3:262:PRO:HG3	1.72	0.70
1:c:193:MET:HG3	1:p:262:PRO:HG3	1.72	0.70
1:j:228:LEU:HD11	1:j:234:TRP:HB2	1.73	0.70
1:u:196:MET:HB2	1:u:210:PHE:HB3	1.72	0.70
1:A:262:PRO:HG3	1:G:193:MET:HG3	1.72	0.70
1:P:228:LEU:HD11	1:P:234:TRP:HB2	1.73	0.70
1:R:262:PRO:HG3	1:S:193:MET:HG3	1.71	0.70
1:a:262:PRO:HG3	1:8:193:MET:HG3	1.72	0.70
1:w:228:LEU:HD11	1:w:234:TRP:HB2	1.73	0.70
1:1:262:PRO:HG3	1:2:193:MET:HG3	1.72	0.70
1:C:228:LEU:HD11	1:C:234:TRP:HB2	1.73	0.70
1:K:193:MET:HG3	1:8:262:PRO:HG3	1.72	0.70
1:t:193:MET:HG3	1:v:262:PRO:HG3	1.72	0.70
1:z:262:PRO:HG3	1:1:193:MET:HG3	1.72	0.70
1:F:127:HIS:HB3	1:F:474:GLU:HB2	1.74	0.70
1:N:196:MET:HB2	1:N:210:PHE:HB3	1.72	0.70
1:U:127:HIS:HB3	1:U:474:GLU:HB2	1.74	0.70
1:g:228:LEU:HD11	1:g:234:TRP:HB2	1.73	0.70
1:s:127:HIS:HB3	1:s:474:GLU:HB2	1.74	0.70
1:w:127:HIS:HB3	1:w:474:GLU:HB2	1.74	0.70
1:E:127:HIS:HB3	1:E:474:GLU:HB2	1.74	0.70
1:J:127:HIS:HB3	1:J:474:GLU:HB2	1.74	0.70
1:y:127:HIS:HB3	1:y:474:GLU:HB2	1.74	0.70
1:6:127:HIS:HB3	1:6:474:GLU:HB2	1.74	0.70
1:7:228:LEU:HD11	1:7:234:TRP:HB2	1.73	0.70
1:O:127:HIS:HB3	1:O:474:GLU:HB2	1.74	0.69
1:U:196:MET:HB2	1:U:210:PHE:HB3	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:127:HIS:HB3	1:W:474:GLU:HB2	1.74	0.69
1:Y:127:HIS:HB3	1:Y:474:GLU:HB2	1.74	0.69
1:Y:228:LEU:HD11	1:Y:234:TRP:HB2	1.73	0.69
1:Z:262:PRO:HG3	1:4:193:MET:HG3	1.72	0.69
1:i:196:MET:HB2	1:i:210:PHE:HB3	1.72	0.69
1:l:127:HIS:HB3	1:l:474:GLU:HB2	1.74	0.69
1:m:127:HIS:HB3	1:m:474:GLU:HB2	1.74	0.69
1:2:127:HIS:HB3	1:2:474:GLU:HB2	1.74	0.69
1:I:127:HIS:HB3	1:I:474:GLU:HB2	1.74	0.69
1:N:127:HIS:HB3	1:N:474:GLU:HB2	1.74	0.69
1:T:127:HIS:HB3	1:T:474:GLU:HB2	1.74	0.69
1:W:228:LEU:HD11	1:W:234:TRP:HB2	1.73	0.69
1:u:127:HIS:HB3	1:u:474:GLU:HB2	1.74	0.69
1:v:228:LEU:HD11	1:v:234:TRP:HB2	1.73	0.69
1:6:228:LEU:HD11	1:6:234:TRP:HB2	1.73	0.69
1:D:196:MET:HB2	1:D:210:PHE:HB3	1.72	0.69
1:s:196:MET:HB2	1:s:210:PHE:HB3	1.72	0.69
1:7:127:HIS:HB3	1:7:474:GLU:HB2	1.74	0.69
1:A:228:LEU:HD11	1:A:234:TRP:HB2	1.73	0.69
1:K:228:LEU:HD11	1:K:234:TRP:HB2	1.73	0.69
1:M:127:HIS:HB3	1:M:474:GLU:HB2	1.74	0.69
1:V:196:MET:HB2	1:V:210:PHE:HB3	1.72	0.69
1:i:127:HIS:HB3	1:i:474:GLU:HB2	1.74	0.69
1:B:193:MET:HG3	1:L:262:PRO:HG3	1.72	0.69
1:O:289:TYR:OH	1:m:321:LEU:O	2.11	0.69
1:T:321:LEU:O	1:l:289:TYR:OH	2.11	0.69
1:h:127:HIS:HB3	1:h:474:GLU:HB2	1.74	0.69
1:k:196:MET:HB2	1:k:210:PHE:HB3	1.72	0.69
1:v:196:MET:HB2	1:v:210:PHE:HB3	1.72	0.69
1:x:289:TYR:OH	1:y:321:LEU:O	2.11	0.69
1:A:196:MET:HB2	1:A:210:PHE:HB3	1.72	0.69
1:F:321:LEU:O	1:Q:289:TYR:OH	2.11	0.69
1:G:127:HIS:HB3	1:G:474:GLU:HB2	1.74	0.69
1:M:228:LEU:HD11	1:M:234:TRP:HB2	1.73	0.69
1:h:228:LEU:HD11	1:h:234:TRP:HB2	1.73	0.69
1:p:196:MET:HB2	1:p:210:PHE:HB3	1.72	0.69
1:r:196:MET:HB2	1:r:210:PHE:HB3	1.72	0.69
1:t:127:HIS:HB3	1:t:474:GLU:HB2	1.74	0.69
1:8:127:HIS:HB3	1:8:474:GLU:HB2	1.74	0.69
1:B:127:HIS:HB3	1:B:474:GLU:HB2	1.74	0.69
1:H:127:HIS:HB3	1:H:474:GLU:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:196:MET:HB2	1:S:210:PHE:HB3	1.72	0.69
1:r:228:LEU:HD11	1:r:234:TRP:HB2	1.73	0.69
1:v:127:HIS:HB3	1:v:474:GLU:HB2	1.74	0.69
1:4:228:LEU:HD11	1:4:234:TRP:HB2	1.73	0.69
1:5:127:HIS:HB3	1:5:474:GLU:HB2	1.74	0.69
1:5:228:LEU:HD11	1:5:234:TRP:HB2	1.73	0.69
1:A:127:HIS:HB3	1:A:474:GLU:HB2	1.74	0.69
1:E:289:TYR:OH	1:Q:321:LEU:O	2.11	0.69
1:F:228:LEU:HD11	1:F:234:TRP:HB2	1.73	0.69
1:H:228:LEU:HD11	1:H:234:TRP:HB2	1.73	0.69
1:K:127:HIS:HB3	1:K:474:GLU:HB2	1.74	0.69
1:S:228:LEU:HD11	1:S:234:TRP:HB2	1.73	0.69
1:Z:127:HIS:HB3	1:Z:474:GLU:HB2	1.74	0.69
1:j:127:HIS:HB3	1:j:474:GLU:HB2	1.74	0.69
1:r:127:HIS:HB3	1:r:474:GLU:HB2	1.74	0.69
1:y:228:LEU:HD11	1:y:234:TRP:HB2	1.73	0.69
1:1:127:HIS:HB3	1:1:474:GLU:HB2	1.74	0.69
1:3:127:HIS:HB3	1:3:474:GLU:HB2	1.74	0.69
1:P:127:HIS:HB3	1:P:474:GLU:HB2	1.74	0.69
1:X:127:HIS:HB3	1:X:474:GLU:HB2	1.74	0.69
1:a:127:HIS:HB3	1:a:474:GLU:HB2	1.74	0.69
1:b:127:HIS:HB3	1:b:474:GLU:HB2	1.74	0.69
1:g:321:LEU:O	1:h:289:TYR:OH	2.11	0.69
1:o:127:HIS:HB3	1:o:474:GLU:HB2	1.74	0.69
1:w:289:TYR:OH	1:x:321:LEU:O	2.11	0.69
1:z:127:HIS:HB3	1:z:474:GLU:HB2	1.74	0.69
1:4:127:HIS:HB3	1:4:474:GLU:HB2	1.74	0.69
1:C:321:LEU:O	1:M:289:TYR:OH	2.11	0.69
1:L:127:HIS:HB3	1:L:474:GLU:HB2	1.74	0.69
1:S:127:HIS:HB3	1:S:474:GLU:HB2	1.74	0.69
1:f:127:HIS:HB3	1:f:474:GLU:HB2	1.74	0.69
1:1:228:LEU:HD11	1:1:234:TRP:HB2	1.73	0.69
1:B:175:THR:HB	1:B:188:PRO:HG3	1.76	0.68
1:R:175:THR:HB	1:R:188:PRO:HG3	1.76	0.68
1:R:321:LEU:O	1:U:289:TYR:OH	2.11	0.68
1:a:196:MET:HB2	1:a:210:PHE:HB3	1.72	0.68
1:i:289:TYR:OH	1:j:321:LEU:O	2.11	0.68
1:q:321:LEU:O	1:s:289:TYR:OH	2.11	0.68
1:B:228:LEU:HD11	1:B:234:TRP:HB2	1.73	0.68
1:U:228:LEU:HD11	1:U:234:TRP:HB2	1.73	0.68
1:t:289:TYR:OH	1:u:321:LEU:O	2.11	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:175:THR:HB	1:7:188:PRO:HG3	1.76	0.68
1:D:228:LEU:HD11	1:D:234:TRP:HB2	1.73	0.68
1:G:289:TYR:OH	1:I:321:LEU:O	2.11	0.68
1:P:175:THR:HB	1:P:188:PRO:HG3	1.76	0.68
1:R:127:HIS:HB3	1:R:474:GLU:HB2	1.74	0.68
1:X:175:THR:HB	1:X:188:PRO:HG3	1.76	0.68
1:Y:175:THR:HB	1:Y:188:PRO:HG3	1.76	0.68
1:a:228:LEU:HD11	1:a:234:TRP:HB2	1.73	0.68
1:j:175:THR:HB	1:j:188:PRO:HG3	1.76	0.68
1:l:175:THR:HB	1:l:188:PRO:HG3	1.76	0.68
1:o:175:THR:HB	1:o:188:PRO:HG3	1.76	0.68
1:p:127:HIS:HB3	1:p:474:GLU:HB2	1.74	0.68
1:q:175:THR:HB	1:q:188:PRO:HG3	1.76	0.68
1:3:196:MET:HB2	1:3:210:PHE:HB3	1.72	0.68
1:O:175:THR:HB	1:O:188:PRO:HG3	1.76	0.68
1:V:127:HIS:HB3	1:V:474:GLU:HB2	1.74	0.68
1:V:321:LEU:O	1:X:289:TYR:OH	2.11	0.68
1:q:127:HIS:HB3	1:q:474:GLU:HB2	1.74	0.68
1:s:228:LEU:HD11	1:s:234:TRP:HB2	1.73	0.68
1:z:175:THR:HB	1:z:188:PRO:HG3	1.76	0.68
1:1:175:THR:HB	1:1:188:PRO:HG3	1.76	0.68
1:A:175:THR:HB	1:A:188:PRO:HG3	1.76	0.68
1:L:175:THR:HB	1:L:188:PRO:HG3	1.76	0.68
1:Q:175:THR:HB	1:Q:188:PRO:HG3	1.76	0.68
1:d:175:THR:HB	1:d:188:PRO:HG3	1.76	0.68
1:f:175:THR:HB	1:f:188:PRO:HG3	1.76	0.68
1:k:228:LEU:HD11	1:k:234:TRP:HB2	1.73	0.68
1:n:175:THR:HB	1:n:188:PRO:HG3	1.76	0.68
1:w:175:THR:HB	1:w:188:PRO:HG3	1.76	0.68
1:x:175:THR:HB	1:x:188:PRO:HG3	1.76	0.68
1:1:289:TYR:OH	1:2:321:LEU:O	2.11	0.68
1:E:175:THR:HB	1:E:188:PRO:HG3	1.76	0.68
1:N:175:THR:HB	1:N:188:PRO:HG3	1.76	0.68
1:T:228:LEU:HD11	1:T:234:TRP:HB2	1.73	0.68
1:X:402:VAL:HG22	1:X:405:MET:HE3	1.76	0.68
1:b:175:THR:HB	1:b:188:PRO:HG3	1.76	0.68
1:d:289:TYR:OH	1:l:321:LEU:O	2.11	0.68
1:k:127:HIS:HB3	1:k:474:GLU:HB2	1.74	0.68
1:m:228:LEU:HD11	1:m:234:TRP:HB2	1.73	0.68
1:v:175:THR:HB	1:v:188:PRO:HG3	1.76	0.68
1:3:228:LEU:HD11	1:3:234:TRP:HB2	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:127:HIS:HB3	1:D:474:GLU:HB2	1.74	0.68
1:F:402:VAL:HG22	1:F:405:MET:HE3	1.76	0.68
1:H:289:TYR:OH	1:W:321:LEU:O	2.11	0.68
1:i:175:THR:HB	1:i:188:PRO:HG3	1.76	0.68
1:i:402:VAL:HG22	1:i:405:MET:HE3	1.76	0.68
1:o:402:VAL:HG22	1:o:405:MET:HE3	1.76	0.68
1:y:402:VAL:HG22	1:y:405:MET:HE3	1.76	0.68
1:2:175:THR:HB	1:2:188:PRO:HG3	1.76	0.68
1:6:175:THR:HB	1:6:188:PRO:HG3	1.76	0.68
1:K:175:THR:HB	1:K:188:PRO:HG3	1.76	0.68
1:N:402:VAL:HG22	1:N:405:MET:HE3	1.76	0.68
1:O:321:LEU:O	1:n:289:TYR:OH	2.11	0.68
1:e:127:HIS:HB3	1:e:474:GLU:HB2	1.74	0.68
1:p:175:THR:HB	1:p:188:PRO:HG3	1.76	0.68
1:x:402:VAL:HG22	1:x:405:MET:HE3	1.76	0.68
1:3:402:VAL:HG22	1:3:405:MET:HE3	1.76	0.68
1:5:289:TYR:OH	1:6:321:LEU:O	2.11	0.68
1:J:175:THR:HB	1:J:188:PRO:HG3	1.76	0.68
1:V:175:THR:HB	1:V:188:PRO:HG3	1.76	0.68
1:W:175:THR:HB	1:W:188:PRO:HG3	1.76	0.68
1:a:402:VAL:HG22	1:a:405:MET:HE3	1.76	0.68
1:c:127:HIS:HB3	1:c:474:GLU:HB2	1.74	0.68
1:c:321:LEU:O	1:p:289:TYR:OH	2.11	0.68
1:6:289:TYR:OH	1:7:321:LEU:O	2.11	0.68
1:L:402:VAL:HG22	1:L:405:MET:HE3	1.76	0.68
1:M:402:VAL:HG22	1:M:405:MET:HE3	1.76	0.68
1:V:228:LEU:HD11	1:V:234:TRP:HB2	1.73	0.68
1:h:402:VAL:HG22	1:h:405:MET:HE3	1.76	0.68
1:j:402:VAL:HG22	1:j:405:MET:HE3	1.76	0.68
1:n:402:VAL:HG22	1:n:405:MET:HE3	1.76	0.68
1:p:228:LEU:HD11	1:p:234:TRP:HB2	1.73	0.68
1:u:402:VAL:HG22	1:u:405:MET:HE3	1.76	0.68
1:4:175:THR:HB	1:4:188:PRO:HG3	1.76	0.68
1:P:402:VAL:HG22	1:P:405:MET:HE3	1.76	0.67
1:Q:402:VAL:HG22	1:Q:405:MET:HE3	1.76	0.67
1:T:175:THR:HB	1:T:188:PRO:HG3	1.76	0.67
1:c:175:THR:HB	1:c:188:PRO:HG3	1.76	0.67
1:d:402:VAL:HG22	1:d:405:MET:HE3	1.76	0.67
1:g:127:HIS:HB3	1:g:474:GLU:HB2	1.74	0.67
1:z:402:VAL:HG22	1:z:405:MET:HE3	1.76	0.67
1:C:127:HIS:HB3	1:C:474:GLU:HB2	1.74	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:402:VAL:HG22	1:I:405:MET:HE3	1.76	0.67
1:Q:127:HIS:HB3	1:Q:474:GLU:HB2	1.74	0.67
1:d:127:HIS:HB3	1:d:474:GLU:HB2	1.74	0.67
1:e:175:THR:HB	1:e:188:PRO:HG3	1.76	0.67
1:m:175:THR:HB	1:m:188:PRO:HG3	1.76	0.67
1:n:127:HIS:HB3	1:n:474:GLU:HB2	1.74	0.67
1:r:175:THR:HB	1:r:188:PRO:HG3	1.76	0.67
1:S:175:THR:HB	1:S:188:PRO:HG3	1.76	0.67
1:U:402:VAL:HG22	1:U:405:MET:HE3	1.76	0.67
1:c:402:VAL:HG22	1:c:405:MET:HE3	1.76	0.67
1:e:402:VAL:HG22	1:e:405:MET:HE3	1.76	0.67
1:x:127:HIS:HB3	1:x:474:GLU:HB2	1.74	0.67
1:G:402:VAL:HG22	1:G:405:MET:HE3	1.76	0.67
1:W:402:VAL:HG22	1:W:405:MET:HE3	1.76	0.67
1:Z:402:VAL:HG22	1:Z:405:MET:HE3	1.76	0.67
1:s:402:VAL:HG22	1:s:405:MET:HE3	1.76	0.67
1:3:321:LEU:O	1:4:289:TYR:OH	2.11	0.67
1:6:402:VAL:HG22	1:6:405:MET:HE3	1.76	0.67
1:8:402:VAL:HG22	1:8:405:MET:HE3	1.76	0.67
1:E:321:LEU:O	1:F:289:TYR:OH	2.11	0.67
1:2:402:VAL:HG22	1:2:405:MET:HE3	1.76	0.67
1:7:402:VAL:HG22	1:7:405:MET:HE3	1.76	0.67
1:A:402:VAL:HG22	1:A:405:MET:HE3	1.76	0.67
1:J:402:VAL:HG22	1:J:405:MET:HE3	1.76	0.67
1:K:289:TYR:OH	1:a:321:LEU:O	2.11	0.67
1:V:289:TYR:OH	1:e:321:LEU:O	2.11	0.67
1:Y:402:VAL:HG22	1:Y:405:MET:HE3	1.76	0.67
1:t:402:VAL:HG22	1:t:405:MET:HE3	1.76	0.67
1:G:175:THR:HB	1:G:188:PRO:HG3	1.76	0.67
1:M:321:LEU:O	1:b:289:TYR:OH	2.11	0.67
1:f:289:TYR:OH	1:h:321:LEU:O	2.11	0.67
1:k:175:THR:HB	1:k:188:PRO:HG3	1.76	0.67
1:m:402:VAL:HG22	1:m:405:MET:HE3	1.76	0.67
1:v:402:VAL:HG22	1:v:405:MET:HE3	1.76	0.67
1:w:321:LEU:O	1:y:289:TYR:OH	2.11	0.67
1:5:175:THR:HB	1:5:188:PRO:HG3	1.76	0.67
1:D:175:THR:HB	1:D:188:PRO:HG3	1.76	0.67
1:t:175:THR:HB	1:t:188:PRO:HG3	1.76	0.67
1:C:175:THR:HB	1:C:188:PRO:HG3	1.76	0.67
1:F:175:THR:HB	1:F:188:PRO:HG3	1.76	0.67
1:H:175:THR:HB	1:H:188:PRO:HG3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:402:VAL:HG22	1:b:405:MET:HE3	1.76	0.67
1:f:402:VAL:HG22	1:f:405:MET:HE3	1.76	0.67
1:g:175:THR:HB	1:g:188:PRO:HG3	1.76	0.67
1:y:175:THR:HB	1:y:188:PRO:HG3	1.76	0.67
1:D:402:VAL:HG22	1:D:405:MET:HE3	1.76	0.66
1:T:289:TYR:OH	1:d:321:LEU:O	2.11	0.66
1:T:402:VAL:HG22	1:T:405:MET:HE3	1.76	0.66
1:V:402:VAL:HG22	1:V:405:MET:HE3	1.76	0.66
1:a:289:TYR:OH	1:8:321:LEU:O	2.11	0.66
1:k:402:VAL:HG22	1:k:405:MET:HE3	1.76	0.66
1:p:402:VAL:HG22	1:p:405:MET:HE3	1.76	0.66
1:5:402:VAL:HG22	1:5:405:MET:HE3	1.76	0.66
1:E:402:VAL:HG22	1:E:405:MET:HE3	1.76	0.66
1:H:402:VAL:HG22	1:H:405:MET:HE3	1.76	0.66
1:M:175:THR:HB	1:M:188:PRO:HG3	1.76	0.66
1:3:175:THR:HB	1:3:188:PRO:HG3	1.76	0.66
1:R:402:VAL:HG22	1:R:405:MET:HE3	1.76	0.66
1:S:402:VAL:HG22	1:S:405:MET:HE3	1.76	0.66
1:a:175:THR:HB	1:a:188:PRO:HG3	1.76	0.66
1:h:175:THR:HB	1:h:188:PRO:HG3	1.76	0.66
1:m:289:TYR:OH	1:n:321:LEU:O	2.11	0.66
1:D:321:LEU:O	1:P:289:TYR:OH	2.11	0.66
1:j:289:TYR:OH	1:k:321:LEU:O	2.11	0.66
1:r:402:VAL:HG22	1:r:405:MET:HE3	1.76	0.66
1:t:321:LEU:O	1:v:289:TYR:OH	2.11	0.66
1:u:175:THR:HB	1:u:188:PRO:HG3	1.76	0.66
1:w:402:VAL:HG22	1:w:405:MET:HE3	1.76	0.66
1:B:321:LEU:O	1:L:289:TYR:OH	2.10	0.66
1:I:175:THR:HB	1:I:188:PRO:HG3	1.76	0.66
1:U:175:THR:HB	1:U:188:PRO:HG3	1.76	0.66
1:Z:321:LEU:O	1:3:289:TYR:OH	2.11	0.66
1:g:402:VAL:HG22	1:g:405:MET:HE3	1.76	0.66
1:q:402:VAL:HG22	1:q:405:MET:HE3	1.76	0.66
1:8:175:THR:HB	1:8:188:PRO:HG3	1.76	0.66
1:A:289:TYR:OH	1:G:321:LEU:O	2.11	0.66
1:Z:175:THR:HB	1:Z:188:PRO:HG3	1.76	0.66
1:s:175:THR:HB	1:s:188:PRO:HG3	1.76	0.66
1:z:289:TYR:OH	1:1:321:LEU:O	2.11	0.66
1:1:402:VAL:HG22	1:1:405:MET:HE3	1.76	0.66
1:C:402:VAL:HG22	1:C:405:MET:HE3	1.76	0.66
1:R:289:TYR:OH	1:S:321:LEU:O	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:321:LEU:O	1:e:289:TYR:OH	2.11	0.66
1:B:402:VAL:HG22	1:B:405:MET:HE3	1.76	0.66
1:b:259:ARG:NH2	1:b:535:ASN:O	2.29	0.66
1:f:259:ARG:NH2	1:f:535:ASN:O	2.29	0.66
1:i:259:ARG:NH2	1:i:535:ASN:O	2.29	0.66
1:J:289:TYR:OH	1:L:321:LEU:O	2.11	0.66
1:K:321:LEU:O	1:8:289:TYR:OH	2.11	0.66
1:N:259:ARG:NH2	1:N:535:ASN:O	2.29	0.66
1:Z:289:TYR:OH	1:4:321:LEU:O	2.11	0.66
1:l:259:ARG:NH2	1:l:535:ASN:O	2.29	0.66
1:u:289:TYR:OH	1:v:321:LEU:O	2.11	0.66
1:v:259:ARG:NH2	1:v:535:ASN:O	2.29	0.66
1:c:289:TYR:OH	1:o:321:LEU:O	2.11	0.66
1:q:289:TYR:OH	1:r:321:LEU:O	2.11	0.66
1:A:321:LEU:O	1:I:289:TYR:OH	2.11	0.65
1:S:289:TYR:OH	1:U:321:LEU:O	2.11	0.65
1:z:321:LEU:O	1:2:289:TYR:OH	2.11	0.65
1:6:259:ARG:NH2	1:6:535:ASN:O	2.29	0.65
1:r:289:TYR:OH	1:s:321:LEU:O	2.11	0.65
1:4:402:VAL:HG22	1:4:405:MET:HE3	1.76	0.65
1:E:259:ARG:NH2	1:E:535:ASN:O	2.29	0.65
1:K:402:VAL:HG22	1:K:405:MET:HE3	1.76	0.65
1:w:259:ARG:NH2	1:w:535:ASN:O	2.29	0.65
1:C:252:SER:HA	1:C:533:ARG:HG2	1.79	0.65
1:O:402:VAL:HG22	1:O:405:MET:HE3	1.76	0.65
1:f:321:LEU:O	1:g:289:TYR:OH	2.11	0.65
1:g:252:SER:HA	1:g:533:ARG:HG2	1.79	0.65
1:k:252:SER:HA	1:k:533:ARG:HG2	1.79	0.65
1:l:402:VAL:HG22	1:l:405:MET:HE3	1.76	0.65
1:C:289:TYR:OH	1:b:321:LEU:O	2.11	0.65
1:D:252:SER:HA	1:D:533:ARG:HG2	1.79	0.65
1:D:289:TYR:OH	1:N:321:LEU:O	2.11	0.65
1:P:369:VAL:HG13	1:P:527:MET:HE2	1.79	0.65
1:i:321:LEU:O	1:k:289:TYR:OH	2.11	0.65
1:j:369:VAL:HG13	1:j:527:MET:HE2	1.79	0.65
1:I:252:SER:HA	1:I:533:ARG:HG2	1.79	0.65
1:u:252:SER:HA	1:u:533:ARG:HG2	1.79	0.65
1:J:369:VAL:HG13	1:J:527:MET:HE2	1.79	0.65
1:L:369:VAL:HG13	1:L:527:MET:HE2	1.79	0.65
1:d:252:SER:HA	1:d:533:ARG:HG2	1.79	0.65
1:t:369:VAL:HG13	1:t:527:MET:HE2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:369:VAL:HG13	1:2:527:MET:HE2	1.79	0.65
1:3:252:SER:HA	1:3:533:ARG:HG2	1.79	0.65
1:C:369:VAL:HG13	1:C:527:MET:HE2	1.79	0.65
1:G:369:VAL:HG13	1:G:527:MET:HE2	1.79	0.65
1:N:252:SER:HA	1:N:533:ARG:HG2	1.79	0.65
1:P:252:SER:HA	1:P:533:ARG:HG2	1.79	0.65
1:S:252:SER:HA	1:S:533:ARG:HG2	1.79	0.65
1:S:369:VAL:HG13	1:S:527:MET:HE2	1.79	0.65
1:Y:259:ARG:NH2	1:Y:535:ASN:O	2.29	0.65
1:Z:252:SER:HA	1:Z:533:ARG:HG2	1.79	0.65
1:a:252:SER:HA	1:a:533:ARG:HG2	1.79	0.65
1:f:252:SER:HA	1:f:533:ARG:HG2	1.79	0.65
1:g:369:VAL:HG13	1:g:527:MET:HE2	1.79	0.65
1:n:252:SER:HA	1:n:533:ARG:HG2	1.79	0.65
1:w:369:VAL:HG13	1:w:527:MET:HE2	1.79	0.65
1:z:369:VAL:HG13	1:z:527:MET:HE2	1.79	0.65
1:7:259:ARG:NH2	1:7:535:ASN:O	2.29	0.65
1:8:252:SER:HA	1:8:533:ARG:HG2	1.79	0.65
1:E:369:VAL:HG13	1:E:527:MET:HE2	1.79	0.64
1:M:259:ARG:NH2	1:M:535:ASN:O	2.29	0.64
1:b:252:SER:HA	1:b:533:ARG:HG2	1.79	0.64
1:d:369:VAL:HG13	1:d:527:MET:HE2	1.79	0.64
1:i:252:SER:HA	1:i:533:ARG:HG2	1.79	0.64
1:j:252:SER:HA	1:j:533:ARG:HG2	1.79	0.64
1:r:252:SER:HA	1:r:533:ARG:HG2	1.79	0.64
1:4:369:VAL:HG13	1:4:527:MET:HE2	1.79	0.64
1:A:369:VAL:HG13	1:A:527:MET:HE2	1.79	0.64
1:K:369:VAL:HG13	1:K:527:MET:HE2	1.79	0.64
1:R:369:VAL:HG13	1:R:527:MET:HE2	1.79	0.64
1:c:252:SER:HA	1:c:533:ARG:HG2	1.79	0.64
1:e:252:SER:HA	1:e:533:ARG:HG2	1.79	0.64
1:4:252:SER:HA	1:4:533:ARG:HG2	1.79	0.64
1:K:252:SER:HA	1:K:533:ARG:HG2	1.79	0.64
1:M:80:ASP:OD2	1:b:272:ARG:NH1	2.30	0.64
1:T:272:ARG:NH1	1:d:80:ASP:OD2	2.30	0.64
1:Z:259:ARG:NH2	1:Z:535:ASN:O	2.29	0.64
1:d:259:ARG:NH2	1:d:535:ASN:O	2.29	0.64
1:h:259:ARG:NH2	1:h:535:ASN:O	2.29	0.64
1:k:369:VAL:HG13	1:k:527:MET:HE2	1.79	0.64
1:n:369:VAL:HG13	1:n:527:MET:HE2	1.79	0.64
1:q:369:VAL:HG13	1:q:527:MET:HE2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:369:VAL:HG13	1:r:527:MET:HE2	1.79	0.64
1:s:259:ARG:NH2	1:s:535:ASN:O	2.29	0.64
1:v:369:VAL:HG13	1:v:527:MET:HE2	1.79	0.64
1:B:289:TYR:OH	1:J:321:LEU:O	2.12	0.64
1:D:272:ARG:NH1	1:N:80:ASP:OD2	2.30	0.64
1:D:369:VAL:HG13	1:D:527:MET:HE2	1.79	0.64
1:H:321:LEU:O	1:Y:289:TYR:OH	2.11	0.64
1:U:259:ARG:NH2	1:U:535:ASN:O	2.29	0.64
1:Y:369:VAL:HG13	1:Y:527:MET:HE2	1.79	0.64
1:Z:369:VAL:HG13	1:Z:527:MET:HE2	1.79	0.64
1:f:272:ARG:NH1	1:h:80:ASP:OD2	2.30	0.64
1:n:259:ARG:NH2	1:n:535:ASN:O	2.29	0.64
1:z:272:ARG:NH1	1:1:80:ASP:OD2	2.30	0.64
1:7:369:VAL:HG13	1:7:527:MET:HE2	1.79	0.64
1:8:369:VAL:HG13	1:8:527:MET:HE2	1.79	0.64
1:B:80:ASP:OD2	1:L:272:ARG:NH1	2.30	0.64
1:C:80:ASP:OD2	1:M:272:ARG:NH1	2.30	0.64
1:V:272:ARG:NH1	1:e:80:ASP:OD2	2.30	0.64
1:c:80:ASP:OD2	1:p:272:ARG:NH1	2.30	0.64
1:c:369:VAL:HG13	1:c:527:MET:HE2	1.79	0.64
1:e:369:VAL:HG13	1:e:527:MET:HE2	1.79	0.64
1:i:80:ASP:OD2	1:k:272:ARG:NH1	2.30	0.64
1:m:272:ARG:NH1	1:n:80:ASP:OD2	2.30	0.64
1:1:272:ARG:NH1	1:2:80:ASP:OD2	2.30	0.64
1:8:259:ARG:NH2	1:8:535:ASN:O	2.29	0.64
1:S:272:ARG:NH1	1:U:80:ASP:OD2	2.30	0.64
1:g:80:ASP:OD2	1:h:272:ARG:NH1	2.30	0.64
1:o:289:TYR:OH	1:p:321:LEU:O	2.11	0.64
1:p:369:VAL:HG13	1:p:527:MET:HE2	1.79	0.64
1:A:80:ASP:OD2	1:I:272:ARG:NH1	2.30	0.64
1:C:272:ARG:NH1	1:b:80:ASP:OD2	2.30	0.64
1:E:272:ARG:NH1	1:Q:80:ASP:OD2	2.30	0.64
1:H:259:ARG:NH2	1:H:535:ASN:O	2.29	0.64
1:I:259:ARG:NH2	1:I:535:ASN:O	2.29	0.64
1:L:95:ASN:HB3	1:L:187:LEU:HB3	1.80	0.64
1:P:535:ASN:OD1	1:P:535:ASN:N	2.31	0.64
1:V:369:VAL:HG13	1:V:527:MET:HE2	1.79	0.64
1:W:369:VAL:HG13	1:W:527:MET:HE2	1.79	0.64
1:W:535:ASN:N	1:W:535:ASN:OD1	2.31	0.64
1:Y:95:ASN:HB3	1:Y:187:LEU:HB3	1.80	0.64
1:a:369:VAL:HG13	1:a:527:MET:HE2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:535:ASN:OD1	1:j:535:ASN:N	2.31	0.64
1:o:252:SER:HA	1:o:533:ARG:HG2	1.79	0.64
1:r:272:ARG:NH1	1:s:80:ASP:OD2	2.30	0.64
1:u:259:ARG:NH2	1:u:535:ASN:O	2.29	0.64
1:3:307:GLU:HA	1:3:311:ASN:HD21	1.63	0.64
1:5:369:VAL:HG13	1:5:527:MET:HE2	1.79	0.64
1:6:535:ASN:N	1:6:535:ASN:OD1	2.31	0.64
1:7:95:ASN:HB3	1:7:187:LEU:HB3	1.80	0.64
1:B:259:ARG:NH2	1:B:535:ASN:O	2.29	0.64
1:E:80:ASP:OD2	1:F:272:ARG:NH1	2.30	0.64
1:H:369:VAL:HG13	1:H:527:MET:HE2	1.79	0.64
1:R:259:ARG:NH2	1:R:535:ASN:O	2.29	0.64
1:V:95:ASN:HB3	1:V:187:LEU:HB3	1.80	0.64
1:Y:307:GLU:HA	1:Y:311:ASN:HD21	1.63	0.64
1:a:307:GLU:HA	1:a:311:ASN:HD21	1.63	0.64
1:f:80:ASP:OD2	1:g:272:ARG:NH1	2.30	0.64
1:p:95:ASN:HB3	1:p:187:LEU:HB3	1.80	0.64
1:u:272:ARG:NH1	1:v:80:ASP:OD2	2.30	0.64
1:w:272:ARG:NH1	1:x:80:ASP:OD2	2.30	0.64
1:w:386:THR:HG22	1:w:388:SER:H	1.63	0.64
1:x:259:ARG:NH2	1:x:535:ASN:O	2.29	0.64
1:3:369:VAL:HG13	1:3:527:MET:HE2	1.79	0.64
1:4:307:GLU:HA	1:4:311:ASN:HD21	1.63	0.64
1:5:259:ARG:NH2	1:5:535:ASN:O	2.29	0.64
1:6:369:VAL:HG13	1:6:527:MET:HE2	1.79	0.64
1:7:307:GLU:HA	1:7:311:ASN:HD21	1.63	0.64
1:B:272:ARG:NH1	1:J:80:ASP:OD2	2.30	0.64
1:E:386:THR:HG22	1:E:388:SER:H	1.63	0.64
1:G:259:ARG:NH2	1:G:535:ASN:O	2.29	0.64
1:I:369:VAL:HG13	1:I:527:MET:HE2	1.79	0.64
1:I:386:THR:HG22	1:I:388:SER:H	1.63	0.64
1:M:535:ASN:OD1	1:M:535:ASN:N	2.31	0.64
1:N:369:VAL:HG13	1:N:527:MET:HE2	1.79	0.64
1:Q:259:ARG:NH2	1:Q:535:ASN:O	2.29	0.64
1:U:252:SER:HA	1:U:533:ARG:HG2	1.79	0.64
1:X:252:SER:HA	1:X:533:ARG:HG2	1.79	0.64
1:Z:272:ARG:NH1	1:4:80:ASP:OD2	2.30	0.64
1:g:95:ASN:HB3	1:g:187:LEU:HB3	1.80	0.64
1:i:369:VAL:HG13	1:i:527:MET:HE2	1.79	0.64
1:o:369:VAL:HG13	1:o:527:MET:HE2	1.79	0.64
1:u:386:THR:HG22	1:u:388:SER:H	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:80:ASP:OD2	1:y:272:ARG:NH1	2.30	0.64
1:x:386:THR:HG22	1:x:388:SER:H	1.63	0.64
1:z:95:ASN:HB3	1:z:187:LEU:HB3	1.80	0.64
1:1:259:ARG:NH2	1:1:535:ASN:O	2.29	0.64
1:5:80:ASP:OD2	1:7:272:ARG:NH1	2.30	0.64
1:A:272:ARG:NH1	1:G:80:ASP:OD2	2.30	0.64
1:C:95:ASN:HB3	1:C:187:LEU:HB3	1.80	0.64
1:G:252:SER:HA	1:G:533:ARG:HG2	1.79	0.64
1:I:535:ASN:N	1:I:535:ASN:OD1	2.31	0.64
1:K:272:ARG:NH1	1:a:80:ASP:OD2	2.30	0.64
1:K:307:GLU:HA	1:K:311:ASN:HD21	1.63	0.64
1:Q:252:SER:HA	1:Q:533:ARG:HG2	1.79	0.64
1:Q:369:VAL:HG13	1:Q:527:MET:HE2	1.79	0.64
1:Q:386:THR:HG22	1:Q:388:SER:H	1.63	0.64
1:R:252:SER:HA	1:R:533:ARG:HG2	1.79	0.64
1:U:369:VAL:HG13	1:U:527:MET:HE2	1.79	0.64
1:W:272:ARG:NH1	1:Y:80:ASP:OD2	2.30	0.64
1:X:369:VAL:HG13	1:X:527:MET:HE2	1.79	0.64
1:h:535:ASN:OD1	1:h:535:ASN:N	2.31	0.64
1:q:252:SER:HA	1:q:533:ARG:HG2	1.79	0.64
1:q:259:ARG:NH2	1:q:535:ASN:O	2.29	0.64
1:u:369:VAL:HG13	1:u:527:MET:HE2	1.79	0.64
1:2:307:GLU:HA	1:2:311:ASN:HD21	1.63	0.64
1:8:535:ASN:N	1:8:535:ASN:OD1	2.31	0.64
1:A:307:GLU:HA	1:A:311:ASN:HD21	1.63	0.63
1:B:307:GLU:HA	1:B:311:ASN:HD21	1.63	0.63
1:F:252:SER:HA	1:F:533:ARG:HG2	1.79	0.63
1:G:307:GLU:HA	1:G:311:ASN:HD21	1.63	0.63
1:H:80:ASP:OD2	1:Y:272:ARG:NH1	2.31	0.63
1:K:80:ASP:OD2	1:8:272:ARG:NH1	2.30	0.63
1:R:272:ARG:NH1	1:S:80:ASP:OD2	2.30	0.63
1:R:535:ASN:OD1	1:R:535:ASN:N	2.31	0.63
1:U:386:THR:HG22	1:U:388:SER:H	1.63	0.63
1:V:80:ASP:OD2	1:X:272:ARG:NH1	2.30	0.63
1:X:80:ASP:OD2	1:e:272:ARG:NH1	2.30	0.63
1:X:95:ASN:HB3	1:X:187:LEU:HB3	1.80	0.63
1:Z:535:ASN:OD1	1:Z:535:ASN:N	2.31	0.63
1:q:535:ASN:N	1:q:535:ASN:OD1	2.31	0.63
1:s:369:VAL:HG13	1:s:527:MET:HE2	1.79	0.63
1:s:386:THR:HG22	1:s:388:SER:H	1.63	0.63
1:t:80:ASP:OD2	1:v:272:ARG:NH1	2.30	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:259:ARG:NH2	1:t:535:ASN:O	2.29	0.63
1:t:307:GLU:HA	1:t:311:ASN:HD21	1.63	0.63
1:u:95:ASN:HB3	1:u:187:LEU:HB3	1.80	0.63
1:x:252:SER:HA	1:x:533:ARG:HG2	1.79	0.63
1:2:259:ARG:NH2	1:2:535:ASN:O	2.29	0.63
1:3:80:ASP:OD2	1:4:272:ARG:NH1	2.30	0.63
1:5:321:LEU:O	1:7:289:TYR:OH	2.11	0.63
1:B:386:THR:HG22	1:B:388:SER:H	1.63	0.63
1:C:259:ARG:NH2	1:C:535:ASN:O	2.29	0.63
1:G:272:ARG:NH1	1:I:80:ASP:OD2	2.30	0.63
1:I:95:ASN:HB3	1:I:187:LEU:HB3	1.80	0.63
1:J:259:ARG:NH2	1:J:535:ASN:O	2.29	0.63
1:J:307:GLU:HA	1:J:311:ASN:HD21	1.63	0.63
1:K:535:ASN:N	1:K:535:ASN:OD1	2.31	0.63
1:N:289:TYR:OH	1:P:321:LEU:O	2.11	0.63
1:V:252:SER:HA	1:V:533:ARG:HG2	1.79	0.63
1:d:272:ARG:NH1	1:l:80:ASP:OD2	2.30	0.63
1:h:307:GLU:HA	1:h:311:ASN:HD21	1.63	0.63
1:o:95:ASN:HB3	1:o:187:LEU:HB3	1.80	0.63
1:o:272:ARG:NH1	1:p:80:ASP:OD2	2.30	0.63
1:q:272:ARG:NH1	1:r:80:ASP:OD2	2.30	0.63
1:s:252:SER:HA	1:s:533:ARG:HG2	1.79	0.63
1:t:252:SER:HA	1:t:533:ARG:HG2	1.79	0.63
1:u:535:ASN:OD1	1:u:535:ASN:N	2.31	0.63
1:v:307:GLU:HA	1:v:311:ASN:HD21	1.63	0.63
1:x:369:VAL:HG13	1:x:527:MET:HE2	1.79	0.63
1:z:307:GLU:HA	1:z:311:ASN:HD21	1.63	0.63
1:1:307:GLU:HA	1:1:311:ASN:HD21	1.63	0.63
1:1:386:THR:HG22	1:1:388:SER:H	1.63	0.63
1:2:386:THR:HG22	1:2:388:SER:H	1.63	0.63
1:4:535:ASN:N	1:4:535:ASN:OD1	2.31	0.63
1:6:272:ARG:NH1	1:7:80:ASP:OD2	2.30	0.63
1:F:259:ARG:NH2	1:F:535:ASN:O	2.29	0.63
1:F:369:VAL:HG13	1:F:527:MET:HE2	1.79	0.63
1:H:386:THR:HG22	1:H:388:SER:H	1.63	0.63
1:J:252:SER:HA	1:J:533:ARG:HG2	1.79	0.63
1:L:307:GLU:HA	1:L:311:ASN:HD21	1.63	0.63
1:M:307:GLU:HA	1:M:311:ASN:HD21	1.63	0.63
1:O:95:ASN:HB3	1:O:187:LEU:HB3	1.80	0.63
1:S:386:THR:HG22	1:S:388:SER:H	1.63	0.63
1:W:252:SER:HA	1:W:533:ARG:HG2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:95:ASN:HB3	1:b:187:LEU:HB3	1.80	0.63
1:c:272:ARG:NH1	1:o:80:ASP:OD2	2.30	0.63
1:l:95:ASN:HB3	1:l:187:LEU:HB3	1.80	0.63
1:p:252:SER:HA	1:p:533:ARG:HG2	1.79	0.63
1:r:95:ASN:HB3	1:r:187:LEU:HB3	1.80	0.63
1:r:386:THR:HG22	1:r:388:SER:H	1.63	0.63
1:t:272:ARG:NH1	1:u:80:ASP:OD2	2.30	0.63
1:t:386:THR:HG22	1:t:388:SER:H	1.63	0.63
1:u:307:GLU:HA	1:u:311:ASN:HD21	1.63	0.63
1:y:252:SER:HA	1:y:533:ARG:HG2	1.79	0.63
1:2:535:ASN:OD1	1:2:535:ASN:N	2.31	0.63
1:5:386:THR:HG22	1:5:388:SER:H	1.63	0.63
1:6:252:SER:HA	1:6:533:ARG:HG2	1.79	0.63
1:D:307:GLU:HA	1:D:311:ASN:HD21	1.63	0.63
1:G:386:THR:HG22	1:G:388:SER:H	1.63	0.63
1:H:252:SER:HA	1:H:533:ARG:HG2	1.79	0.63
1:H:535:ASN:OD1	1:H:535:ASN:N	2.31	0.63
1:I:307:GLU:HA	1:I:311:ASN:HD21	1.63	0.63
1:J:386:THR:HG22	1:J:388:SER:H	1.63	0.63
1:J:535:ASN:OD1	1:J:535:ASN:N	2.31	0.63
1:M:386:THR:HG22	1:M:388:SER:H	1.63	0.63
1:O:80:ASP:OD2	1:n:272:ARG:NH1	2.30	0.63
1:S:95:ASN:HB3	1:S:187:LEU:HB3	1.80	0.63
1:V:259:ARG:NH2	1:V:535:ASN:O	2.29	0.63
1:Y:252:SER:HA	1:Y:533:ARG:HG2	1.79	0.63
1:c:259:ARG:NH2	1:c:535:ASN:O	2.29	0.63
1:e:259:ARG:NH2	1:e:535:ASN:O	2.29	0.63
1:f:95:ASN:HB3	1:f:187:LEU:HB3	1.80	0.63
1:g:259:ARG:NH2	1:g:535:ASN:O	2.29	0.63
1:k:307:GLU:HA	1:k:311:ASN:HD21	1.63	0.63
1:n:307:GLU:HA	1:n:311:ASN:HD21	1.63	0.63
1:q:80:ASP:OD2	1:s:272:ARG:NH1	2.30	0.63
1:z:259:ARG:NH2	1:z:535:ASN:O	2.29	0.63
1:2:252:SER:HA	1:2:533:ARG:HG2	1.79	0.63
1:5:272:ARG:NH1	1:6:80:ASP:OD2	2.30	0.63
1:A:95:ASN:HB3	1:A:187:LEU:HB3	1.80	0.63
1:B:252:SER:HA	1:B:533:ARG:HG2	1.79	0.63
1:D:95:ASN:HB3	1:D:187:LEU:HB3	1.80	0.63
1:D:259:ARG:NH2	1:D:535:ASN:O	2.29	0.63
1:N:386:THR:HG22	1:N:388:SER:H	1.63	0.63
1:T:369:VAL:HG13	1:T:527:MET:HE2	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:386:THR:HG22	1:T:388:SER:H	1.63	0.63
1:h:252:SER:HA	1:h:533:ARG:HG2	1.79	0.63
1:k:259:ARG:NH2	1:k:535:ASN:O	2.29	0.63
1:k:386:THR:HG22	1:k:388:SER:H	1.63	0.63
1:q:95:ASN:HB3	1:q:187:LEU:HB3	1.80	0.63
1:v:95:ASN:HB3	1:v:187:LEU:HB3	1.80	0.63
1:z:252:SER:HA	1:z:533:ARG:HG2	1.79	0.63
1:5:252:SER:HA	1:5:533:ARG:HG2	1.79	0.63
1:5:535:ASN:OD1	1:5:535:ASN:N	2.31	0.63
1:7:252:SER:HA	1:7:533:ARG:HG2	1.79	0.63
1:D:386:THR:HG22	1:D:388:SER:H	1.63	0.63
1:G:95:ASN:HB3	1:G:187:LEU:HB3	1.80	0.63
1:H:194:THR:CG2	1:H:216:ALA:H	2.12	0.63
1:L:252:SER:HA	1:L:533:ARG:HG2	1.79	0.63
1:L:259:ARG:NH2	1:L:535:ASN:O	2.29	0.63
1:M:95:ASN:HB3	1:M:187:LEU:HB3	1.80	0.63
1:M:252:SER:HA	1:M:533:ARG:HG2	1.79	0.63
1:R:80:ASP:OD2	1:U:272:ARG:NH1	2.30	0.63
1:U:194:THR:CG2	1:U:216:ALA:H	2.12	0.63
1:a:259:ARG:NH2	1:a:535:ASN:O	2.29	0.63
1:d:307:GLU:HA	1:d:311:ASN:HD21	1.63	0.63
1:f:369:VAL:HG13	1:f:527:MET:HE2	1.79	0.63
1:h:95:ASN:HB3	1:h:187:LEU:HB3	1.80	0.63
1:h:386:THR:HG22	1:h:388:SER:H	1.63	0.63
1:k:95:ASN:HB3	1:k:187:LEU:HB3	1.80	0.63
1:l:386:THR:HG22	1:l:388:SER:H	1.63	0.63
1:m:252:SER:HA	1:m:533:ARG:HG2	1.79	0.63
1:p:259:ARG:NH2	1:p:535:ASN:O	2.29	0.63
1:t:95:ASN:HB3	1:t:187:LEU:HB3	1.80	0.63
1:y:259:ARG:NH2	1:y:535:ASN:O	2.29	0.63
1:y:369:VAL:HG13	1:y:527:MET:HE2	1.79	0.63
1:C:386:THR:HG22	1:C:388:SER:H	1.63	0.63
1:O:386:THR:HG22	1:O:388:SER:H	1.63	0.63
1:R:95:ASN:HB3	1:R:187:LEU:HB3	1.80	0.63
1:R:194:THR:CG2	1:R:216:ALA:H	2.12	0.63
1:T:252:SER:HA	1:T:533:ARG:HG2	1.79	0.63
1:U:95:ASN:HB3	1:U:187:LEU:HB3	1.80	0.63
1:V:535:ASN:N	1:V:535:ASN:OD1	2.31	0.63
1:X:386:THR:HG22	1:X:388:SER:H	1.63	0.63
1:X:535:ASN:OD1	1:X:535:ASN:N	2.31	0.63
1:a:386:THR:HG22	1:a:388:SER:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:194:THR:CG2	1:d:216:ALA:H	2.12	0.63
1:i:386:THR:HG22	1:i:388:SER:H	1.63	0.63
1:l:252:SER:HA	1:l:533:ARG:HG2	1.79	0.63
1:m:369:VAL:HG13	1:m:527:MET:HE2	1.79	0.63
1:m:386:THR:HG22	1:m:388:SER:H	1.63	0.63
1:n:194:THR:CG2	1:n:216:ALA:H	2.12	0.63
1:o:535:ASN:N	1:o:535:ASN:OD1	2.31	0.63
1:q:194:THR:CG2	1:q:216:ALA:H	2.12	0.63
1:s:95:ASN:HB3	1:s:187:LEU:HB3	1.80	0.63
1:s:194:THR:CG2	1:s:216:ALA:H	2.12	0.63
1:1:252:SER:HA	1:1:533:ARG:HG2	1.79	0.63
1:8:95:ASN:HB3	1:8:187:LEU:HB3	1.80	0.63
1:8:386:THR:HG22	1:8:388:SER:H	1.63	0.63
1:A:252:SER:HA	1:A:533:ARG:HG2	1.79	0.63
1:A:535:ASN:N	1:A:535:ASN:OD1	2.31	0.63
1:C:307:GLU:HA	1:C:311:ASN:HD21	1.63	0.63
1:L:535:ASN:N	1:L:535:ASN:OD1	2.31	0.63
1:N:95:ASN:HB3	1:N:187:LEU:HB3	1.80	0.63
1:N:307:GLU:HA	1:N:311:ASN:HD21	1.63	0.63
1:O:252:SER:HA	1:O:533:ARG:HG2	1.79	0.63
1:P:95:ASN:HB3	1:P:187:LEU:HB3	1.80	0.63
1:T:95:ASN:HB3	1:T:187:LEU:HB3	1.80	0.63
1:Z:95:ASN:HB3	1:Z:187:LEU:HB3	1.80	0.63
1:a:194:THR:CG2	1:a:216:ALA:H	2.12	0.63
1:b:369:VAL:HG13	1:b:527:MET:HE2	1.79	0.63
1:c:95:ASN:HB3	1:c:187:LEU:HB3	1.80	0.63
1:g:386:THR:HG22	1:g:388:SER:H	1.63	0.63
1:i:307:GLU:HA	1:i:311:ASN:HD21	1.63	0.63
1:j:95:ASN:HB3	1:j:187:LEU:HB3	1.80	0.63
1:p:535:ASN:OD1	1:p:535:ASN:N	2.31	0.63
1:v:252:SER:HA	1:v:533:ARG:HG2	1.79	0.63
1:v:535:ASN:N	1:v:535:ASN:OD1	2.31	0.63
1:z:80:ASP:OD2	1:2:272:ARG:NH1	2.30	0.63
1:3:95:ASN:HB3	1:3:187:LEU:HB3	1.80	0.63
1:3:194:THR:CG2	1:3:216:ALA:H	2.12	0.63
1:3:259:ARG:NH2	1:3:535:ASN:O	2.29	0.63
1:5:194:THR:CG2	1:5:216:ALA:H	2.12	0.63
1:J:272:ARG:NH1	1:L:80:ASP:OD2	2.30	0.63
1:P:386:THR:HG22	1:P:388:SER:H	1.63	0.63
1:Z:386:THR:HG22	1:Z:388:SER:H	1.63	0.63
1:b:386:THR:HG22	1:b:388:SER:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:95:ASN:HB3	1:e:187:LEU:HB3	1.80	0.63
1:f:307:GLU:HA	1:f:311:ASN:HD21	1.63	0.63
1:g:307:GLU:HA	1:g:311:ASN:HD21	1.63	0.63
1:i:95:ASN:HB3	1:i:187:LEU:HB3	1.80	0.63
1:m:95:ASN:HB3	1:m:187:LEU:HB3	1.80	0.63
1:o:386:THR:HG22	1:o:388:SER:H	1.63	0.63
1:z:535:ASN:N	1:z:535:ASN:OD1	2.31	0.63
1:3:386:THR:HG22	1:3:388:SER:H	1.63	0.63
1:3:535:ASN:N	1:3:535:ASN:OD1	2.31	0.63
1:8:307:GLU:HA	1:8:311:ASN:HD21	1.63	0.63
1:B:369:VAL:HG13	1:B:527:MET:HE2	1.79	0.62
1:E:252:SER:HA	1:E:533:ARG:HG2	1.79	0.62
1:E:307:GLU:HA	1:E:311:ASN:HD21	1.63	0.62
1:K:386:THR:HG22	1:K:388:SER:H	1.63	0.62
1:M:369:VAL:HG13	1:M:527:MET:HE2	1.79	0.62
1:O:272:ARG:NH1	1:m:80:ASP:OD2	2.30	0.62
1:O:535:ASN:OD1	1:O:535:ASN:N	2.31	0.62
1:Q:535:ASN:N	1:Q:535:ASN:OD1	2.31	0.62
1:W:289:TYR:OH	1:Y:321:LEU:O	2.11	0.62
1:Z:80:ASP:OD2	1:3:272:ARG:NH1	2.30	0.62
1:a:95:ASN:HB3	1:a:187:LEU:HB3	1.80	0.62
1:q:307:GLU:HA	1:q:311:ASN:HD21	1.63	0.62
1:w:252:SER:HA	1:w:533:ARG:HG2	1.79	0.62
1:y:194:THR:CG2	1:y:216:ALA:H	2.12	0.62
1:F:194:THR:CG2	1:F:216:ALA:H	2.12	0.62
1:O:369:VAL:HG13	1:O:527:MET:HE2	1.79	0.62
1:W:95:ASN:HB3	1:W:187:LEU:HB3	1.80	0.62
1:X:194:THR:CG2	1:X:216:ALA:H	2.12	0.62
1:Z:307:GLU:HA	1:Z:311:ASN:HD21	1.63	0.62
1:a:272:ARG:NH1	1:8:80:ASP:OD2	2.30	0.62
1:a:535:ASN:N	1:a:535:ASN:OD1	2.31	0.62
1:b:307:GLU:HA	1:b:311:ASN:HD21	1.63	0.62
1:e:386:THR:HG22	1:e:388:SER:H	1.63	0.62
1:e:535:ASN:OD1	1:e:535:ASN:N	2.31	0.62
1:f:386:THR:HG22	1:f:388:SER:H	1.63	0.62
1:o:194:THR:CG2	1:o:216:ALA:H	2.12	0.62
1:x:535:ASN:OD1	1:x:535:ASN:N	2.31	0.62
1:D:80:ASP:OD2	1:P:272:ARG:NH1	2.30	0.62
1:H:307:GLU:HA	1:H:311:ASN:HD21	1.63	0.62
1:K:95:ASN:HB3	1:K:187:LEU:HB3	1.80	0.62
1:P:307:GLU:HA	1:P:311:ASN:HD21	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:80:ASP:OD2	1:l:272:ARG:NH1	2.30	0.62
1:X:259:ARG:NH2	1:X:535:ASN:O	2.29	0.62
1:c:535:ASN:OD1	1:c:535:ASN:N	2.31	0.62
1:h:369:VAL:HG13	1:h:527:MET:HE2	1.79	0.62
1:j:386:THR:HG22	1:j:388:SER:H	1.63	0.62
1:l:369:VAL:HG13	1:l:527:MET:HE2	1.79	0.62
1:l:535:ASN:N	1:l:535:ASN:OD1	2.31	0.62
1:r:535:ASN:OD1	1:r:535:ASN:N	2.31	0.62
1:w:307:GLU:HA	1:w:311:ASN:HD21	1.63	0.62
1:x:95:ASN:HB3	1:x:187:LEU:HB3	1.80	0.62
1:1:369:VAL:HG13	1:1:527:MET:HE2	1.79	0.62
1:4:95:ASN:HB3	1:4:187:LEU:HB3	1.80	0.62
1:4:386:THR:HG22	1:4:388:SER:H	1.63	0.62
1:6:95:ASN:HB3	1:6:187:LEU:HB3	1.80	0.62
1:F:95:ASN:HB3	1:F:187:LEU:HB3	1.80	0.62
1:F:386:THR:HG22	1:F:388:SER:H	1.63	0.62
1:H:272:ARG:NH1	1:W:80:ASP:OD2	2.30	0.62
1:Q:95:ASN:HB3	1:Q:187:LEU:HB3	1.80	0.62
1:W:386:THR:HG22	1:W:388:SER:H	1.63	0.62
1:d:386:THR:HG22	1:d:388:SER:H	1.63	0.62
1:j:307:GLU:HA	1:j:311:ASN:HD21	1.63	0.62
1:m:259:ARG:NH2	1:m:535:ASN:O	2.29	0.62
1:o:259:ARG:NH2	1:o:535:ASN:O	2.29	0.62
1:x:194:THR:CG2	1:x:216:ALA:H	2.12	0.62
1:y:95:ASN:HB3	1:y:187:LEU:HB3	1.80	0.62
1:y:386:THR:HG22	1:y:388:SER:H	1.63	0.62
1:5:307:GLU:HA	1:5:311:ASN:HD21	1.63	0.62
1:7:386:THR:HG22	1:7:388:SER:H	1.63	0.62
1:B:95:ASN:HB3	1:B:187:LEU:HB3	1.80	0.62
1:Q:194:THR:CG2	1:Q:216:ALA:H	2.12	0.62
1:R:307:GLU:HA	1:R:311:ASN:HD21	1.63	0.62
1:S:535:ASN:N	1:S:535:ASN:OD1	2.31	0.62
1:T:259:ARG:NH2	1:T:535:ASN:O	2.29	0.62
1:X:307:GLU:HA	1:X:311:ASN:HD21	1.63	0.62
1:c:386:THR:HG22	1:c:388:SER:H	1.63	0.62
1:g:535:ASN:N	1:g:535:ASN:OD1	2.31	0.62
1:j:272:ARG:NH1	1:k:80:ASP:OD2	2.30	0.62
1:n:386:THR:HG22	1:n:388:SER:H	1.63	0.62
1:x:307:GLU:HA	1:x:311:ASN:HD21	1.63	0.62
1:1:95:ASN:HB3	1:1:187:LEU:HB3	1.80	0.62
1:F:80:ASP:OD2	1:Q:272:ARG:NH1	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:307:GLU:HA	1:F:311:ASN:HD21	1.63	0.62
1:J:133:LEU:HD11	1:J:155:ILE:HG12	1.82	0.62
1:R:386:THR:HG22	1:R:388:SER:H	1.63	0.62
1:Y:386:THR:HG22	1:Y:388:SER:H	1.63	0.62
1:Z:133:LEU:HD11	1:Z:155:ILE:HG12	1.82	0.62
1:b:535:ASN:OD1	1:b:535:ASN:N	2.31	0.62
1:e:307:GLU:HA	1:e:311:ASN:HD21	1.63	0.62
1:2:133:LEU:HD11	1:2:155:ILE:HG12	1.82	0.62
1:6:307:GLU:HA	1:6:311:ASN:HD21	1.63	0.62
1:8:133:LEU:HD11	1:8:155:ILE:HG12	1.82	0.62
1:C:535:ASN:N	1:C:535:ASN:OD1	2.31	0.62
1:D:194:THR:CG2	1:D:216:ALA:H	2.12	0.62
1:N:272:ARG:NH1	1:P:80:ASP:OD2	2.31	0.62
1:O:194:THR:CG2	1:O:216:ALA:H	2.12	0.62
1:Q:307:GLU:HA	1:Q:311:ASN:HD21	1.63	0.62
1:T:307:GLU:HA	1:T:311:ASN:HD21	1.63	0.62
1:U:535:ASN:OD1	1:U:535:ASN:N	2.31	0.62
1:Y:194:THR:CG2	1:Y:216:ALA:H	2.12	0.62
1:Y:535:ASN:N	1:Y:535:ASN:OD1	2.31	0.62
1:b:228:LEU:HD22	1:b:232:ASN:HB3	1.82	0.62
1:c:307:GLU:HA	1:c:311:ASN:HD21	1.63	0.62
1:f:194:THR:CG2	1:f:216:ALA:H	2.12	0.62
1:f:228:LEU:HD22	1:f:232:ASN:HB3	1.82	0.62
1:f:535:ASN:N	1:f:535:ASN:OD1	2.31	0.62
1:o:307:GLU:HA	1:o:311:ASN:HD21	1.63	0.62
1:p:386:THR:HG22	1:p:388:SER:H	1.63	0.62
1:y:307:GLU:HA	1:y:311:ASN:HD21	1.63	0.62
1:1:194:THR:CG2	1:1:216:ALA:H	2.12	0.62
1:3:133:LEU:HD11	1:3:155:ILE:HG12	1.82	0.62
1:6:386:THR:HG22	1:6:388:SER:H	1.63	0.62
1:7:194:THR:CG2	1:7:216:ALA:H	2.12	0.62
1:B:194:THR:CG2	1:B:216:ALA:H	2.12	0.62
1:D:228:LEU:HD22	1:D:232:ASN:HB3	1.82	0.62
1:F:228:LEU:HD22	1:F:232:ASN:HB3	1.82	0.62
1:N:194:THR:HG21	1:N:216:ALA:N	2.15	0.62
1:O:228:LEU:HD22	1:O:232:ASN:HB3	1.82	0.62
1:Q:228:LEU:HD22	1:Q:232:ASN:HB3	1.82	0.62
1:R:133:LEU:HD11	1:R:155:ILE:HG12	1.82	0.62
1:W:228:LEU:HD22	1:W:232:ASN:HB3	1.82	0.62
1:W:307:GLU:HA	1:W:311:ASN:HD21	1.63	0.62
1:a:133:LEU:HD11	1:a:155:ILE:HG12	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:194:THR:CG2	1:b:216:ALA:H	2.12	0.62
1:i:194:THR:HG21	1:i:216:ALA:N	2.15	0.62
1:k:228:LEU:HD22	1:k:232:ASN:HB3	1.82	0.62
1:l:194:THR:CG2	1:l:216:ALA:H	2.12	0.62
1:l:228:LEU:HD22	1:l:232:ASN:HB3	1.82	0.62
1:q:133:LEU:HD11	1:q:155:ILE:HG12	1.82	0.62
1:q:386:THR:HG22	1:q:388:SER:H	1.63	0.62
1:x:228:LEU:HD22	1:x:232:ASN:HB3	1.82	0.62
1:x:272:ARG:NH1	1:y:80:ASP:OD2	2.30	0.62
1:y:228:LEU:HD22	1:y:232:ASN:HB3	1.82	0.62
1:4:259:ARG:NH2	1:4:535:ASN:O	2.29	0.62
1:7:535:ASN:OD1	1:7:535:ASN:N	2.31	0.62
1:A:194:THR:CG2	1:A:216:ALA:H	2.12	0.62
1:A:386:THR:HG22	1:A:388:SER:H	1.63	0.62
1:E:95:ASN:HB3	1:E:187:LEU:HB3	1.80	0.62
1:G:228:LEU:HD22	1:G:232:ASN:HB3	1.82	0.62
1:G:535:ASN:OD1	1:G:535:ASN:N	2.31	0.62
1:I:133:LEU:HD11	1:I:155:ILE:HG12	1.82	0.62
1:K:259:ARG:NH2	1:K:535:ASN:O	2.29	0.62
1:L:386:THR:HG22	1:L:388:SER:H	1.63	0.62
1:V:133:LEU:HD11	1:V:155:ILE:HG12	1.82	0.62
1:V:386:THR:HG22	1:V:388:SER:H	1.63	0.62
1:i:272:ARG:NH1	1:j:80:ASP:OD2	2.31	0.62
1:k:194:THR:CG2	1:k:216:ALA:H	2.12	0.62
1:p:133:LEU:HD11	1:p:155:ILE:HG12	1.82	0.62
1:s:535:ASN:OD1	1:s:535:ASN:N	2.31	0.62
1:u:133:LEU:HD11	1:u:155:ILE:HG12	1.82	0.62
1:v:386:THR:HG22	1:v:388:SER:H	1.63	0.62
1:w:95:ASN:HB3	1:w:187:LEU:HB3	1.80	0.62
1:w:133:LEU:HD11	1:w:155:ILE:HG12	1.82	0.62
1:z:386:THR:HG22	1:z:388:SER:H	1.63	0.62
1:1:228:LEU:HD22	1:1:232:ASN:HB3	1.82	0.62
1:6:228:LEU:HD22	1:6:232:ASN:HB3	1.82	0.62
1:B:228:LEU:HD22	1:B:232:ASN:HB3	1.82	0.62
1:D:261:ASN:HB2	1:N:168:LEU:HD13	1.82	0.62
1:E:133:LEU:HD11	1:E:155:ILE:HG12	1.82	0.62
1:F:535:ASN:N	1:F:535:ASN:OD1	2.31	0.62
1:L:228:LEU:HD22	1:L:232:ASN:HB3	1.82	0.62
1:M:133:LEU:HD11	1:M:155:ILE:HG12	1.82	0.62
1:S:307:GLU:HA	1:S:311:ASN:HD21	1.63	0.62
1:U:133:LEU:HD11	1:U:155:ILE:HG12	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:307:GLU:HA	1:U:311:ASN:HD21	1.63	0.62
1:h:133:LEU:HD11	1:h:155:ILE:HG12	1.82	0.62
1:j:306:LEU:O	1:j:311:ASN:ND2	2.33	0.62
1:s:133:LEU:HD11	1:s:155:ILE:HG12	1.82	0.62
1:t:228:LEU:HD22	1:t:232:ASN:HB3	1.82	0.62
1:t:535:ASN:N	1:t:535:ASN:OD1	2.31	0.62
1:v:194:THR:CG2	1:v:216:ALA:H	2.12	0.62
1:z:228:LEU:HD22	1:z:232:ASN:HB3	1.82	0.62
1:2:306:LEU:O	1:2:311:ASN:ND2	2.33	0.62
1:C:228:LEU:HD22	1:C:232:ASN:HB3	1.82	0.61
1:I:194:THR:CG2	1:I:216:ALA:H	2.12	0.61
1:J:95:ASN:HB3	1:J:187:LEU:HB3	1.80	0.61
1:J:228:LEU:HD22	1:J:232:ASN:HB3	1.82	0.61
1:J:306:LEU:O	1:J:311:ASN:ND2	2.33	0.61
1:O:133:LEU:HD11	1:O:155:ILE:HG12	1.82	0.61
1:P:306:LEU:O	1:P:311:ASN:ND2	2.33	0.61
1:S:259:ARG:NH2	1:S:535:ASN:O	2.29	0.61
1:U:157:ILE:HG12	1:U:449:VAL:HG22	1.82	0.61
1:X:306:LEU:O	1:X:311:ASN:ND2	2.33	0.61
1:Y:228:LEU:HD22	1:Y:232:ASN:HB3	1.82	0.61
1:i:168:LEU:HD13	1:k:261:ASN:HB2	1.82	0.61
1:m:307:GLU:HA	1:m:311:ASN:HD21	1.63	0.61
1:n:95:ASN:HB3	1:n:187:LEU:HB3	1.80	0.61
1:o:306:LEU:O	1:o:311:ASN:ND2	2.33	0.61
1:p:307:GLU:HA	1:p:311:ASN:HD21	1.63	0.61
1:q:194:THR:HG21	1:q:216:ALA:N	2.15	0.61
1:r:259:ARG:NH2	1:r:535:ASN:O	2.29	0.61
1:v:194:THR:HG21	1:v:216:ALA:N	2.15	0.61
1:y:535:ASN:N	1:y:535:ASN:OD1	2.31	0.61
1:z:133:LEU:HD11	1:z:155:ILE:HG12	1.82	0.61
1:z:306:LEU:O	1:z:311:ASN:ND2	2.33	0.61
1:2:228:LEU:HD22	1:2:232:ASN:HB3	1.82	0.61
1:4:228:LEU:HD22	1:4:232:ASN:HB3	1.82	0.61
1:7:228:LEU:HD22	1:7:232:ASN:HB3	1.82	0.61
1:A:194:THR:HG21	1:A:216:ALA:N	2.15	0.61
1:C:194:THR:HG21	1:C:216:ALA:N	2.15	0.61
1:H:133:LEU:HD11	1:H:155:ILE:HG12	1.82	0.61
1:K:228:LEU:HD22	1:K:232:ASN:HB3	1.82	0.61
1:N:306:LEU:O	1:N:311:ASN:ND2	2.33	0.61
1:R:194:THR:HG21	1:R:216:ALA:N	2.15	0.61
1:V:307:GLU:HA	1:V:311:ASN:HD21	1.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:157:ILE:HG12	1:W:449:VAL:HG22	1.82	0.61
1:W:259:ARG:NH2	1:W:535:ASN:O	2.29	0.61
1:Z:168:LEU:HD13	1:3:261:ASN:HB2	1.83	0.61
1:a:261:ASN:HB2	1:8:168:LEU:HD13	1.83	0.61
1:d:194:THR:HG21	1:d:216:ALA:N	2.15	0.61
1:g:194:THR:HG21	1:g:216:ALA:N	2.15	0.61
1:g:228:LEU:HD22	1:g:232:ASN:HB3	1.82	0.61
1:j:259:ARG:NH2	1:j:535:ASN:O	2.29	0.61
1:o:228:LEU:HD22	1:o:232:ASN:HB3	1.82	0.61
1:r:307:GLU:HA	1:r:311:ASN:HD21	1.63	0.61
1:s:157:ILE:HG12	1:s:449:VAL:HG22	1.82	0.61
1:s:307:GLU:HA	1:s:311:ASN:HD21	1.63	0.61
1:u:194:THR:CG2	1:u:216:ALA:H	2.12	0.61
1:v:228:LEU:HD22	1:v:232:ASN:HB3	1.82	0.61
1:w:306:LEU:O	1:w:311:ASN:ND2	2.33	0.61
1:2:95:ASN:HB3	1:2:187:LEU:HB3	1.80	0.61
1:5:133:LEU:HD11	1:5:155:ILE:HG12	1.82	0.61
1:6:157:ILE:HG12	1:6:449:VAL:HG22	1.82	0.61
1:D:306:LEU:O	1:D:311:ASN:ND2	2.33	0.61
1:E:306:LEU:O	1:E:311:ASN:ND2	2.33	0.61
1:L:133:LEU:HD11	1:L:155:ILE:HG12	1.82	0.61
1:L:306:LEU:O	1:L:311:ASN:ND2	2.33	0.61
1:P:259:ARG:NH2	1:P:535:ASN:O	2.29	0.61
1:W:194:THR:CG2	1:W:216:ALA:H	2.12	0.61
1:X:228:LEU:HD22	1:X:232:ASN:HB3	1.82	0.61
1:a:157:ILE:HG12	1:a:449:VAL:HG22	1.82	0.61
1:a:228:LEU:HD22	1:a:232:ASN:HB3	1.82	0.61
1:i:194:THR:CG2	1:i:216:ALA:H	2.12	0.61
1:j:133:LEU:HD11	1:j:155:ILE:HG12	1.82	0.61
1:k:306:LEU:O	1:k:311:ASN:ND2	2.33	0.61
1:l:133:LEU:HD11	1:l:155:ILE:HG12	1.82	0.61
1:m:261:ASN:HB2	1:n:168:LEU:HD13	1.83	0.61
1:n:194:THR:HG21	1:n:216:ALA:N	2.15	0.61
1:y:157:ILE:HG12	1:y:449:VAL:HG22	1.82	0.61
1:z:194:THR:HG21	1:z:216:ALA:N	2.15	0.61
1:2:157:ILE:HG12	1:2:449:VAL:HG22	1.82	0.61
1:6:194:THR:CG2	1:6:216:ALA:H	2.12	0.61
1:A:228:LEU:HD22	1:A:232:ASN:HB3	1.82	0.61
1:F:157:ILE:HG12	1:F:449:VAL:HG22	1.82	0.61
1:L:194:THR:HG21	1:L:216:ALA:N	2.15	0.61
1:M:306:LEU:O	1:M:311:ASN:ND2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:133:LEU:HD11	1:P:155:ILE:HG12	1.82	0.61
1:P:228:LEU:HD22	1:P:232:ASN:HB3	1.82	0.61
1:T:261:ASN:HB2	1:d:168:LEU:HD13	1.83	0.61
1:b:133:LEU:HD11	1:b:155:ILE:HG12	1.82	0.61
1:d:95:ASN:HB3	1:d:187:LEU:HB3	1.80	0.61
1:h:194:THR:CG2	1:h:216:ALA:H	2.12	0.61
1:h:306:LEU:O	1:h:311:ASN:ND2	2.33	0.61
1:j:157:ILE:HG12	1:j:449:VAL:HG22	1.82	0.61
1:m:194:THR:CG2	1:m:216:ALA:H	2.12	0.61
1:o:157:ILE:HG12	1:o:449:VAL:HG22	1.82	0.61
1:x:306:LEU:O	1:x:311:ASN:ND2	2.33	0.61
1:3:157:ILE:HG12	1:3:449:VAL:HG22	1.82	0.61
1:3:228:LEU:HD22	1:3:232:ASN:HB3	1.82	0.61
1:C:157:ILE:HG12	1:C:449:VAL:HG22	1.82	0.61
1:G:261:ASN:HB2	1:I:168:LEU:HD13	1.83	0.61
1:K:194:THR:CG2	1:K:216:ALA:H	2.12	0.61
1:M:194:THR:CG2	1:M:216:ALA:H	2.12	0.61
1:N:194:THR:CG2	1:N:216:ALA:H	2.12	0.61
1:P:157:ILE:HG12	1:P:449:VAL:HG22	1.82	0.61
1:Q:133:LEU:HD11	1:Q:155:ILE:HG12	1.82	0.61
1:Q:306:LEU:O	1:Q:311:ASN:ND2	2.33	0.61
1:R:168:LEU:HD13	1:U:261:ASN:HB2	1.82	0.61
1:R:228:LEU:HD22	1:R:232:ASN:HB3	1.82	0.61
1:T:194:THR:CG2	1:T:216:ALA:H	2.12	0.61
1:W:261:ASN:HB2	1:Y:168:LEU:HD13	1.82	0.61
1:X:157:ILE:HG12	1:X:449:VAL:HG22	1.82	0.61
1:d:306:LEU:O	1:d:311:ASN:ND2	2.33	0.61
1:f:133:LEU:HD11	1:f:155:ILE:HG12	1.82	0.61
1:j:228:LEU:HD22	1:j:232:ASN:HB3	1.82	0.61
1:q:168:LEU:HD13	1:s:261:ASN:HB2	1.83	0.61
1:q:228:LEU:HD22	1:q:232:ASN:HB3	1.82	0.61
1:w:261:ASN:HB2	1:x:168:LEU:HD13	1.83	0.61
1:x:133:LEU:HD11	1:x:155:ILE:HG12	1.82	0.61
1:5:95:ASN:HB3	1:5:187:LEU:HB3	1.80	0.61
1:7:157:ILE:HG12	1:7:449:VAL:HG22	1.82	0.61
1:C:133:LEU:HD11	1:C:155:ILE:HG12	1.82	0.61
1:C:194:THR:CG2	1:C:216:ALA:H	2.12	0.61
1:D:194:THR:HG21	1:D:216:ALA:N	2.15	0.61
1:E:261:ASN:HB2	1:Q:168:LEU:HD13	1.83	0.61
1:H:95:ASN:HB3	1:H:187:LEU:HB3	1.80	0.61
1:J:157:ILE:HG12	1:J:449:VAL:HG22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:194:THR:HG21	1:P:216:ALA:N	2.15	0.61
1:d:157:ILE:HG12	1:d:449:VAL:HG22	1.82	0.61
1:g:157:ILE:HG12	1:g:449:VAL:HG22	1.82	0.61
1:j:194:THR:HG21	1:j:216:ALA:N	2.15	0.61
1:n:306:LEU:O	1:n:311:ASN:ND2	2.33	0.61
1:t:261:ASN:HB2	1:u:168:LEU:HD13	1.83	0.61
1:y:306:LEU:O	1:y:311:ASN:ND2	2.33	0.61
1:z:261:ASN:HB2	1:1:168:LEU:HD13	1.82	0.61
1:3:168:LEU:HD13	1:4:261:ASN:HB2	1.83	0.61
1:4:194:THR:CG2	1:4:216:ALA:H	2.12	0.61
1:A:157:ILE:HG12	1:A:449:VAL:HG22	1.82	0.61
1:B:261:ASN:HB2	1:J:168:LEU:HD13	1.82	0.61
1:D:133:LEU:HD11	1:D:155:ILE:HG12	1.82	0.61
1:F:306:LEU:O	1:F:311:ASN:ND2	2.33	0.61
1:K:261:ASN:HB2	1:a:168:LEU:HD13	1.83	0.61
1:O:194:THR:HG21	1:O:216:ALA:N	2.15	0.61
1:T:228:LEU:HD22	1:T:232:ASN:HB3	1.82	0.61
1:Y:157:ILE:HG12	1:Y:449:VAL:HG22	1.82	0.61
1:e:133:LEU:HD11	1:e:155:ILE:HG12	1.82	0.61
1:f:168:LEU:HD13	1:g:261:ASN:HB2	1.83	0.61
1:g:133:LEU:HD11	1:g:155:ILE:HG12	1.82	0.61
1:g:194:THR:CG2	1:g:216:ALA:H	2.12	0.61
1:k:133:LEU:HD11	1:k:155:ILE:HG12	1.82	0.61
1:k:194:THR:HG21	1:k:216:ALA:N	2.15	0.61
1:l:194:THR:HG21	1:l:216:ALA:N	2.15	0.61
1:l:307:GLU:HA	1:l:311:ASN:HD21	1.63	0.61
1:m:228:LEU:HD22	1:m:232:ASN:HB3	1.82	0.61
1:n:157:ILE:HG12	1:n:449:VAL:HG22	1.82	0.61
1:v:157:ILE:HG12	1:v:449:VAL:HG22	1.82	0.61
1:v:306:LEU:O	1:v:311:ASN:ND2	2.33	0.61
1:6:261:ASN:HB2	1:7:168:LEU:HD13	1.83	0.61
1:A:306:LEU:O	1:A:311:ASN:ND2	2.33	0.61
1:F:287:PRO:HB2	1:F:288:TRP:CE3	2.36	0.61
1:H:228:LEU:HD22	1:H:232:ASN:HB3	1.82	0.61
1:L:194:THR:CG2	1:L:216:ALA:H	2.12	0.61
1:N:261:ASN:HB2	1:P:168:LEU:HD13	1.82	0.61
1:O:168:LEU:HD13	1:n:261:ASN:HB2	1.83	0.61
1:S:133:LEU:HD11	1:S:155:ILE:HG12	1.82	0.61
1:c:133:LEU:HD11	1:c:155:ILE:HG12	1.82	0.61
1:d:261:ASN:HB2	1:l:168:LEU:HD13	1.83	0.61
1:i:261:ASN:HB2	1:j:168:LEU:HD13	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:306:LEU:O	1:q:311:ASN:ND2	2.33	0.61
1:y:287:PRO:HB2	1:y:288:TRP:CE3	2.36	0.61
1:z:194:THR:CG2	1:z:216:ALA:H	2.12	0.61
1:4:157:ILE:HG12	1:4:449:VAL:HG22	1.82	0.61
1:8:157:ILE:HG12	1:8:449:VAL:HG22	1.82	0.61
1:C:261:ASN:HB2	1:b:168:LEU:HD13	1.83	0.61
1:O:307:GLU:HA	1:O:311:ASN:HD21	1.63	0.61
1:R:306:LEU:O	1:R:311:ASN:ND2	2.33	0.61
1:U:194:THR:HG21	1:U:216:ALA:N	2.15	0.61
1:Y:287:PRO:HB2	1:Y:288:TRP:CE3	2.36	0.61
1:Z:157:ILE:HG12	1:Z:449:VAL:HG22	1.82	0.61
1:Z:228:LEU:HD22	1:Z:232:ASN:HB3	1.82	0.61
1:c:194:THR:CG2	1:c:216:ALA:H	2.12	0.61
1:c:261:ASN:HB2	1:o:168:LEU:HD13	1.83	0.61
1:n:133:LEU:HD11	1:n:155:ILE:HG12	1.82	0.61
1:r:133:LEU:HD11	1:r:155:ILE:HG12	1.82	0.61
1:s:194:THR:HG21	1:s:216:ALA:N	2.15	0.61
1:u:228:LEU:HD22	1:u:232:ASN:HB3	1.82	0.61
1:w:157:ILE:HG12	1:w:449:VAL:HG22	1.83	0.61
1:5:228:LEU:HD22	1:5:232:ASN:HB3	1.82	0.61
1:5:261:ASN:HB2	1:6:168:LEU:HD13	1.81	0.61
1:7:287:PRO:HB2	1:7:288:TRP:CE3	2.36	0.61
1:B:157:ILE:HG12	1:B:449:VAL:HG22	1.83	0.61
1:D:287:PRO:HB2	1:D:288:TRP:CE3	2.36	0.61
1:F:168:LEU:HD13	1:Q:261:ASN:HB2	1.83	0.61
1:H:287:PRO:HB2	1:H:288:TRP:CE3	2.36	0.61
1:I:228:LEU:HD22	1:I:232:ASN:HB3	1.82	0.61
1:J:261:ASN:HB2	1:L:168:LEU:HD13	1.83	0.61
1:K:157:ILE:HG12	1:K:449:VAL:HG22	1.82	0.61
1:L:157:ILE:HG12	1:L:449:VAL:HG22	1.82	0.61
1:S:287:PRO:HB2	1:S:288:TRP:CE3	2.36	0.61
1:V:157:ILE:HG12	1:V:449:VAL:HG22	1.82	0.61
1:W:133:LEU:HD11	1:W:155:ILE:HG12	1.82	0.61
1:X:168:LEU:HD13	1:e:261:ASN:HB2	1.83	0.61
1:Y:133:LEU:HD11	1:Y:155:ILE:HG12	1.82	0.61
1:d:133:LEU:HD11	1:d:155:ILE:HG12	1.82	0.61
1:h:228:LEU:HD22	1:h:232:ASN:HB3	1.82	0.61
1:i:287:PRO:HB2	1:i:288:TRP:CE3	2.36	0.61
1:k:287:PRO:HB2	1:k:288:TRP:CE3	2.36	0.61
1:o:261:ASN:HB2	1:p:168:LEU:HD13	1.83	0.61
1:p:194:THR:HG21	1:p:216:ALA:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:287:PRO:HB2	1:r:288:TRP:CE3	2.36	0.61
1:1:157:ILE:HG12	1:1:449:VAL:HG22	1.82	0.61
1:5:287:PRO:HB2	1:5:288:TRP:CE3	2.36	0.61
1:8:228:LEU:HD22	1:8:232:ASN:HB3	1.82	0.61
1:8:306:LEU:O	1:8:311:ASN:ND2	2.33	0.61
1:B:133:LEU:HD11	1:B:155:ILE:HG12	1.82	0.60
1:B:168:LEU:HD13	1:L:261:ASN:HB2	1.83	0.60
1:D:499:ASP:HA	1:D:504:ARG:HH11	1.66	0.60
1:E:157:ILE:HG12	1:E:449:VAL:HG22	1.83	0.60
1:I:499:ASP:HA	1:I:504:ARG:HH11	1.66	0.60
1:J:287:PRO:HB2	1:J:288:TRP:CE3	2.36	0.60
1:M:228:LEU:HD22	1:M:232:ASN:HB3	1.82	0.60
1:N:287:PRO:HB2	1:N:288:TRP:CE3	2.36	0.60
1:P:194:THR:CG2	1:P:216:ALA:H	2.12	0.60
1:T:287:PRO:HB2	1:T:288:TRP:CE3	2.36	0.60
1:U:228:LEU:HD22	1:U:232:ASN:HB3	1.82	0.60
1:V:168:LEU:HD13	1:X:261:ASN:HB2	1.83	0.60
1:V:194:THR:HG21	1:V:216:ALA:N	2.15	0.60
1:Z:306:LEU:O	1:Z:311:ASN:ND2	2.33	0.60
1:c:499:ASP:HA	1:c:504:ARG:HH11	1.66	0.60
1:e:194:THR:CG2	1:e:216:ALA:H	2.12	0.60
1:e:499:ASP:HA	1:e:504:ARG:HH11	1.66	0.60
1:j:194:THR:CG2	1:j:216:ALA:H	2.12	0.60
1:k:157:ILE:HG12	1:k:449:VAL:HG22	1.82	0.60
1:k:499:ASP:HA	1:k:504:ARG:HH11	1.66	0.60
1:m:287:PRO:HB2	1:m:288:TRP:CE3	2.36	0.60
1:o:287:PRO:HB2	1:o:288:TRP:CE3	2.36	0.60
1:p:157:ILE:HG12	1:p:449:VAL:HG22	1.82	0.60
1:u:499:ASP:HA	1:u:504:ARG:HH11	1.66	0.60
1:x:261:ASN:HB2	1:y:168:LEU:HD13	1.83	0.60
1:2:287:PRO:HB2	1:2:288:TRP:CE3	2.36	0.60
1:6:133:LEU:HD11	1:6:155:ILE:HG12	1.82	0.60
1:D:157:ILE:HG12	1:D:449:VAL:HG22	1.82	0.60
1:G:157:ILE:HG12	1:G:449:VAL:HG22	1.83	0.60
1:O:157:ILE:HG12	1:O:449:VAL:HG22	1.82	0.60
1:P:499:ASP:HA	1:P:504:ARG:HH11	1.67	0.60
1:T:306:LEU:O	1:T:311:ASN:ND2	2.33	0.60
1:W:287:PRO:HB2	1:W:288:TRP:CE3	2.36	0.60
1:X:287:PRO:HB2	1:X:288:TRP:CE3	2.36	0.60
1:c:228:LEU:HD22	1:c:232:ASN:HB3	1.82	0.60
1:d:287:PRO:HB2	1:d:288:TRP:CE3	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:228:LEU:HD22	1:e:232:ASN:HB3	1.82	0.60
1:m:306:LEU:O	1:m:311:ASN:ND2	2.33	0.60
1:n:287:PRO:HB2	1:n:288:TRP:CE3	2.36	0.60
1:p:287:PRO:HB2	1:p:288:TRP:CE3	2.36	0.60
1:q:261:ASN:HB2	1:r:168:LEU:HD13	1.82	0.60
1:s:228:LEU:HD22	1:s:232:ASN:HB3	1.82	0.60
1:t:157:ILE:HG12	1:t:449:VAL:HG22	1.83	0.60
1:z:157:ILE:HG12	1:z:449:VAL:HG22	1.82	0.60
1:z:168:LEU:HD13	1:2:261:ASN:HB2	1.83	0.60
1:z:287:PRO:HB2	1:z:288:TRP:CE3	2.36	0.60
1:z:499:ASP:HA	1:z:504:ARG:HH11	1.66	0.60
1:1:133:LEU:HD11	1:1:155:ILE:HG12	1.82	0.60
1:5:168:LEU:HD13	1:7:261:ASN:HB2	1.82	0.60
1:6:287:PRO:HB2	1:6:288:TRP:CE3	2.36	0.60
1:C:168:LEU:HD13	1:M:261:ASN:HB2	1.83	0.60
1:K:168:LEU:HD13	1:8:261:ASN:HB2	1.83	0.60
1:L:287:PRO:HB2	1:L:288:TRP:CE3	2.36	0.60
1:L:499:ASP:HA	1:L:504:ARG:HH11	1.66	0.60
1:O:306:LEU:O	1:O:311:ASN:ND2	2.33	0.60
1:R:261:ASN:HB2	1:S:168:LEU:HD13	1.82	0.60
1:V:287:PRO:HB2	1:V:288:TRP:CE3	2.36	0.60
1:Y:499:ASP:HA	1:Y:504:ARG:HH11	1.66	0.60
1:Z:261:ASN:HB2	1:4:168:LEU:HD13	1.83	0.60
1:b:499:ASP:HA	1:b:504:ARG:HH11	1.66	0.60
1:d:228:LEU:HD22	1:d:232:ASN:HB3	1.82	0.60
1:j:499:ASP:HA	1:j:504:ARG:HH11	1.67	0.60
1:l:157:ILE:HG12	1:l:449:VAL:HG22	1.83	0.60
1:p:228:LEU:HD22	1:p:232:ASN:HB3	1.82	0.60
1:1:261:ASN:HB2	1:2:168:LEU:HD13	1.82	0.60
1:4:499:ASP:HA	1:4:504:ARG:HH11	1.66	0.60
1:7:133:LEU:HD11	1:7:155:ILE:HG12	1.82	0.60
1:7:499:ASP:HA	1:7:504:ARG:HH11	1.66	0.60
1:C:287:PRO:HB2	1:C:288:TRP:CE3	2.36	0.60
1:I:287:PRO:HB2	1:I:288:TRP:CE3	2.36	0.60
1:K:499:ASP:HA	1:K:504:ARG:HH11	1.67	0.60
1:V:228:LEU:HD22	1:V:232:ASN:HB3	1.82	0.60
1:Z:287:PRO:HB2	1:Z:288:TRP:CE3	2.36	0.60
1:Z:499:ASP:HA	1:Z:504:ARG:HH11	1.66	0.60
1:a:194:THR:HG21	1:a:216:ALA:N	2.15	0.60
1:a:287:PRO:HB2	1:a:288:TRP:CE3	2.36	0.60
1:b:306:LEU:O	1:b:311:ASN:ND2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:168:LEU:HD13	1:h:261:ASN:HB2	1.83	0.60
1:r:228:LEU:HD22	1:r:232:ASN:HB3	1.82	0.60
1:3:287:PRO:HB2	1:3:288:TRP:CE3	2.36	0.60
1:8:287:PRO:HB2	1:8:288:TRP:CE3	2.36	0.60
1:A:259:ARG:NH2	1:A:535:ASN:O	2.29	0.60
1:H:499:ASP:HA	1:H:504:ARG:HH11	1.67	0.60
1:K:133:LEU:HD11	1:K:155:ILE:HG12	1.82	0.60
1:M:499:ASP:HA	1:M:504:ARG:HH11	1.66	0.60
1:R:287:PRO:HB2	1:R:288:TRP:CE3	2.36	0.60
1:S:228:LEU:HD22	1:S:232:ASN:HB3	1.82	0.60
1:f:306:LEU:O	1:f:311:ASN:ND2	2.33	0.60
1:h:194:THR:HG21	1:h:216:ALA:N	2.15	0.60
1:h:499:ASP:HA	1:h:504:ARG:HH11	1.66	0.60
1:j:261:ASN:HB2	1:k:168:LEU:HD13	1.83	0.60
1:l:306:LEU:O	1:l:311:ASN:ND2	2.33	0.60
1:n:228:LEU:HD22	1:n:232:ASN:HB3	1.82	0.60
1:p:499:ASP:HA	1:p:504:ARG:HH11	1.66	0.60
1:q:287:PRO:HB2	1:q:288:TRP:CE3	2.36	0.60
1:x:287:PRO:HB2	1:x:288:TRP:CE3	2.36	0.60
1:y:194:THR:HG21	1:y:216:ALA:N	2.15	0.60
1:3:194:THR:HG21	1:3:216:ALA:N	2.15	0.60
1:5:499:ASP:HA	1:5:504:ARG:HH11	1.66	0.60
1:A:168:LEU:HD13	1:I:261:ASN:HB2	1.83	0.60
1:B:222:GLU:HA	1:C:40:CYS:HB2	1.84	0.60
1:B:287:PRO:HB2	1:B:288:TRP:CE3	2.36	0.60
1:I:157:ILE:HG12	1:I:449:VAL:HG22	1.82	0.60
1:N:228:LEU:HD22	1:N:232:ASN:HB3	1.82	0.60
1:Q:287:PRO:HB2	1:Q:288:TRP:CE3	2.36	0.60
1:Q:499:ASP:HA	1:Q:504:ARG:HH11	1.66	0.60
1:R:157:ILE:HG12	1:R:449:VAL:HG22	1.82	0.60
1:S:157:ILE:HG12	1:S:449:VAL:HG22	1.82	0.60
1:V:499:ASP:HA	1:V:504:ARG:HH11	1.66	0.60
1:a:306:LEU:O	1:a:311:ASN:ND2	2.33	0.60
1:b:287:PRO:HB2	1:b:288:TRP:CE3	2.36	0.60
1:f:194:THR:HG21	1:f:216:ALA:N	2.15	0.60
1:f:499:ASP:HA	1:f:504:ARG:HH11	1.67	0.60
1:g:287:PRO:HB2	1:g:288:TRP:CE3	2.36	0.60
1:m:157:ILE:HG12	1:m:449:VAL:HG22	1.82	0.60
1:n:499:ASP:HA	1:n:504:ARG:HH11	1.66	0.60
1:t:133:LEU:HD11	1:t:155:ILE:HG12	1.82	0.60
1:u:261:ASN:HB2	1:v:168:LEU:HD13	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:287:PRO:HB2	1:u:288:TRP:CE3	2.36	0.60
1:v:133:LEU:HD11	1:v:155:ILE:HG12	1.82	0.60
1:1:287:PRO:HB2	1:1:288:TRP:CE3	2.36	0.60
1:3:306:LEU:O	1:3:311:ASN:ND2	2.33	0.60
1:4:133:LEU:HD11	1:4:155:ILE:HG12	1.82	0.60
1:6:385:SER:OG	1:7:295:TYR:O	2.19	0.60
1:8:499:ASP:HA	1:8:504:ARG:HH11	1.66	0.60
1:A:133:LEU:HD11	1:A:155:ILE:HG12	1.82	0.60
1:A:261:ASN:HB2	1:G:168:LEU:HD13	1.83	0.60
1:D:168:LEU:HD13	1:P:261:ASN:HB2	1.83	0.60
1:F:194:THR:HG21	1:F:216:ALA:N	2.15	0.60
1:G:385:SER:OG	1:I:295:TYR:O	2.19	0.60
1:J:499:ASP:HA	1:J:504:ARG:HH11	1.67	0.60
1:M:40:CYS:HB2	1:N:222:GLU:HA	1.84	0.60
1:M:168:LEU:HD13	1:b:261:ASN:HB2	1.83	0.60
1:M:194:THR:HG21	1:M:216:ALA:N	2.15	0.60
1:N:499:ASP:HA	1:N:504:ARG:HH11	1.66	0.60
1:O:259:ARG:NH2	1:O:535:ASN:O	2.29	0.60
1:X:40:CYS:HB2	1:Y:222:GLU:HA	1.84	0.60
1:X:133:LEU:HD11	1:X:155:ILE:HG12	1.82	0.60
1:e:287:PRO:HB2	1:e:288:TRP:CE3	2.36	0.60
1:f:287:PRO:HB2	1:f:288:TRP:CE3	2.36	0.60
1:i:228:LEU:HD22	1:i:232:ASN:HB3	1.82	0.60
1:i:499:ASP:HA	1:i:504:ARG:HH11	1.66	0.60
1:o:40:CYS:HB2	1:7:222:GLU:HA	1.84	0.60
1:o:133:LEU:HD11	1:o:155:ILE:HG12	1.82	0.60
1:q:157:ILE:HG12	1:q:449:VAL:HG22	1.83	0.60
1:r:194:THR:CG2	1:r:216:ALA:H	2.12	0.60
1:t:168:LEU:HD13	1:v:261:ASN:HB2	1.83	0.60
1:5:157:ILE:HG12	1:5:449:VAL:HG22	1.82	0.60
1:C:499:ASP:HA	1:C:504:ARG:HH11	1.66	0.60
1:G:133:LEU:HD11	1:G:155:ILE:HG12	1.82	0.60
1:H:168:LEU:HD13	1:Y:261:ASN:HB2	1.82	0.60
1:K:287:PRO:HB2	1:K:288:TRP:CE3	2.36	0.60
1:P:287:PRO:HB2	1:P:288:TRP:CE3	2.36	0.60
1:T:133:LEU:HD11	1:T:155:ILE:HG12	1.82	0.60
1:T:157:ILE:HG12	1:T:449:VAL:HG22	1.82	0.60
1:Z:194:THR:CG2	1:Z:216:ALA:H	2.12	0.60
1:b:194:THR:HG21	1:b:216:ALA:N	2.15	0.60
1:c:287:PRO:HB2	1:c:288:TRP:CE3	2.36	0.60
1:d:499:ASP:HA	1:d:504:ARG:HH11	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:261:ASN:HB2	1:h:168:LEU:HD13	1.83	0.60
1:h:40:CYS:HB2	1:i:222:GLU:HA	1.84	0.60
1:i:157:ILE:HG12	1:i:449:VAL:HG22	1.82	0.60
1:k:535:ASN:OD1	1:k:535:ASN:N	2.31	0.60
1:m:133:LEU:HD11	1:m:155:ILE:HG12	1.82	0.60
1:s:499:ASP:HA	1:s:504:ARG:HH11	1.66	0.60
1:t:499:ASP:HA	1:t:504:ARG:HH11	1.67	0.60
1:u:157:ILE:HG12	1:u:449:VAL:HG22	1.82	0.60
1:x:157:ILE:HG12	1:x:449:VAL:HG22	1.82	0.60
1:x:499:ASP:HA	1:x:504:ARG:HH11	1.66	0.60
1:2:499:ASP:HA	1:2:504:ARG:HH11	1.66	0.60
1:3:499:ASP:HA	1:3:504:ARG:HH11	1.66	0.60
1:4:287:PRO:HB2	1:4:288:TRP:CE3	2.36	0.60
1:5:194:THR:HG21	1:5:216:ALA:N	2.15	0.60
1:E:228:LEU:HD22	1:E:232:ASN:HB3	1.82	0.60
1:G:499:ASP:HA	1:G:504:ARG:HH11	1.66	0.60
1:H:157:ILE:HG12	1:H:449:VAL:HG22	1.82	0.60
1:H:194:THR:HG21	1:H:216:ALA:N	2.15	0.60
1:O:40:CYS:HB2	1:P:222:GLU:HA	1.84	0.60
1:S:194:THR:CG2	1:S:216:ALA:H	2.12	0.60
1:U:499:ASP:HA	1:U:504:ARG:HH11	1.66	0.60
1:W:385:SER:OG	1:Y:295:TYR:O	2.19	0.60
1:a:499:ASP:HA	1:a:504:ARG:HH11	1.66	0.60
1:c:157:ILE:HG12	1:c:449:VAL:HG22	1.83	0.60
1:g:499:ASP:HA	1:g:504:ARG:HH11	1.66	0.60
1:j:222:GLU:HA	1:l:40:CYS:HB2	1.84	0.60
1:j:287:PRO:HB2	1:j:288:TRP:CE3	2.36	0.60
1:n:535:ASN:N	1:n:535:ASN:OD1	2.31	0.60
1:t:306:LEU:O	1:t:311:ASN:ND2	2.33	0.60
1:1:194:THR:HG21	1:1:216:ALA:N	2.15	0.60
1:7:194:THR:HG21	1:7:216:ALA:N	2.15	0.60
1:8:194:THR:CG2	1:8:216:ALA:H	2.12	0.60
1:B:109:ARG:NH1	1:B:110:ASP:OD1	2.35	0.60
1:B:194:THR:HG21	1:B:216:ALA:N	2.15	0.60
1:E:287:PRO:HB2	1:E:288:TRP:CE3	2.36	0.60
1:H:261:ASN:HB2	1:W:168:LEU:HD13	1.83	0.60
1:Q:157:ILE:HG12	1:Q:449:VAL:HG22	1.82	0.60
1:R:222:GLU:HA	1:V:40:CYS:HB2	1.84	0.60
1:T:499:ASP:HA	1:T:504:ARG:HH11	1.66	0.60
1:e:157:ILE:HG12	1:e:449:VAL:HG22	1.82	0.60
1:f:157:ILE:HG12	1:f:449:VAL:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:40:CYS:HB2	1:l:222:GLU:HA	1.84	0.60
1:l:287:PRO:HB2	1:l:288:TRP:CE3	2.36	0.60
1:o:194:THR:HG21	1:o:216:ALA:N	2.15	0.60
1:p:40:CYS:HB2	1:q:222:GLU:HA	1.84	0.60
1:r:157:ILE:HG12	1:r:449:VAL:HG22	1.83	0.60
1:z:222:GLU:HA	1:4:40:CYS:HB2	1.84	0.60
1:D:535:ASN:N	1:D:535:ASN:OD1	2.31	0.59
1:E:295:TYR:O	1:F:385:SER:OG	2.19	0.59
1:E:499:ASP:HA	1:E:504:ARG:HH11	1.66	0.59
1:F:317:ASP:HB2	1:Q:282:CYS:HB3	1.84	0.59
1:G:287:PRO:HB2	1:G:288:TRP:CE3	2.36	0.59
1:G:306:LEU:O	1:G:311:ASN:ND2	2.33	0.59
1:N:157:ILE:HG12	1:N:449:VAL:HG22	1.82	0.59
1:O:261:ASN:HB2	1:m:168:LEU:HD13	1.83	0.59
1:O:287:PRO:HB2	1:O:288:TRP:CE3	2.36	0.59
1:Q:194:THR:HG21	1:Q:216:ALA:N	2.15	0.59
1:S:109:ARG:NH1	1:S:110:ASP:OD1	2.35	0.59
1:T:535:ASN:N	1:T:535:ASN:OD1	2.31	0.59
1:U:109:ARG:NH1	1:U:110:ASP:OD1	2.35	0.59
1:V:306:LEU:O	1:V:311:ASN:ND2	2.33	0.59
1:X:109:ARG:NH1	1:X:110:ASP:OD1	2.35	0.59
1:Y:194:THR:HG21	1:Y:216:ALA:N	2.15	0.59
1:b:157:ILE:HG12	1:b:449:VAL:HG22	1.83	0.59
1:m:499:ASP:HA	1:m:504:ARG:HH11	1.67	0.59
1:n:222:GLU:HA	1:r:40:CYS:HB2	1.84	0.59
1:o:109:ARG:NH1	1:o:110:ASP:OD1	2.35	0.59
1:p:194:THR:CG2	1:p:216:ALA:H	2.12	0.59
1:p:306:LEU:O	1:p:311:ASN:ND2	2.33	0.59
1:r:109:ARG:NH1	1:r:110:ASP:OD1	2.35	0.59
1:w:194:THR:HG21	1:w:216:ALA:N	2.15	0.59
1:w:228:LEU:HD22	1:w:232:ASN:HB3	1.82	0.59
1:w:287:PRO:HB2	1:w:288:TRP:CE3	2.36	0.59
1:w:499:ASP:HA	1:w:504:ARG:HH11	1.66	0.59
1:x:282:CYS:HB3	1:y:317:ASP:HB2	1.84	0.59
1:1:109:ARG:NH1	1:1:110:ASP:OD1	2.35	0.59
1:2:194:THR:CG2	1:2:216:ALA:H	2.12	0.59
1:A:499:ASP:HA	1:A:504:ARG:HH11	1.67	0.59
1:D:109:ARG:NH1	1:D:110:ASP:OD1	2.35	0.59
1:E:194:THR:HG21	1:E:216:ALA:N	2.15	0.59
1:E:282:CYS:HB3	1:Q:317:ASP:HB2	1.84	0.59
1:K:40:CYS:HB2	1:L:222:GLU:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:109:ARG:NH1	1:K:110:ASP:OD1	2.35	0.59
1:M:287:PRO:HB2	1:M:288:TRP:CE3	2.36	0.59
1:O:222:GLU:HA	1:d:40:CYS:HB2	1.84	0.59
1:P:40:CYS:HB2	1:Q:222:GLU:HA	1.84	0.59
1:Q:109:ARG:NH1	1:Q:110:ASP:OD1	2.35	0.59
1:R:109:ARG:NH1	1:R:110:ASP:OD1	2.35	0.59
1:S:40:CYS:HB2	1:d:222:GLU:HA	1.84	0.59
1:T:168:LEU:HD13	1:l:261:ASN:HB2	1.83	0.59
1:U:287:PRO:HB2	1:U:288:TRP:CE3	2.36	0.59
1:V:194:THR:CG2	1:V:216:ALA:H	2.12	0.59
1:W:306:LEU:O	1:W:311:ASN:ND2	2.33	0.59
1:X:194:THR:HG21	1:X:216:ALA:N	2.15	0.59
1:X:222:GLU:HA	1:f:40:CYS:HB2	1.84	0.59
1:b:40:CYS:HB2	1:o:222:GLU:HA	1.84	0.59
1:b:109:ARG:NH1	1:b:110:ASP:OD1	2.35	0.59
1:d:535:ASN:N	1:d:535:ASN:OD1	2.31	0.59
1:f:109:ARG:NH1	1:f:110:ASP:OD1	2.35	0.59
1:j:40:CYS:HB2	1:x:222:GLU:HA	1.84	0.59
1:l:222:GLU:HA	1:n:40:CYS:HB2	1.84	0.59
1:q:109:ARG:NH1	1:q:110:ASP:OD1	2.35	0.59
1:s:109:ARG:NH1	1:s:110:ASP:OD1	2.35	0.59
1:s:287:PRO:HB2	1:s:288:TRP:CE3	2.36	0.59
1:t:287:PRO:HB2	1:t:288:TRP:CE3	2.36	0.59
1:u:282:CYS:HB3	1:v:317:ASP:HB2	1.84	0.59
1:v:499:ASP:HA	1:v:504:ARG:HH11	1.67	0.59
1:w:282:CYS:HB3	1:x:317:ASP:HB2	1.84	0.59
1:w:295:TYR:O	1:y:385:SER:OG	2.19	0.59
1:x:109:ARG:NH1	1:x:110:ASP:OD1	2.35	0.59
1:x:194:THR:HG21	1:x:216:ALA:N	2.15	0.59
1:y:133:LEU:HD11	1:y:155:ILE:HG12	1.82	0.59
1:z:317:ASP:HB2	1:2:282:CYS:HB3	1.84	0.59
1:1:499:ASP:HA	1:1:504:ARG:HH11	1.67	0.59
1:7:109:ARG:NH1	1:7:110:ASP:OD1	2.35	0.59
1:A:109:ARG:NH1	1:A:110:ASP:OD1	2.35	0.59
1:A:317:ASP:HB2	1:I:282:CYS:HB3	1.84	0.59
1:B:499:ASP:HA	1:B:504:ARG:HH11	1.66	0.59
1:B:535:ASN:OD1	1:B:535:ASN:N	2.31	0.59
1:E:168:LEU:HD13	1:F:261:ASN:HB2	1.83	0.59
1:F:133:LEU:HD11	1:F:155:ILE:HG12	1.82	0.59
1:G:106:PHE:HD1	1:G:110:ASP:HB3	1.68	0.59
1:I:40:CYS:HB2	1:J:222:GLU:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:109:ARG:NH1	1:J:110:ASP:OD1	2.35	0.59
1:J:194:THR:CG2	1:J:216:ALA:H	2.12	0.59
1:K:317:ASP:HB2	1:8:282:CYS:HB3	1.84	0.59
1:O:295:TYR:O	1:n:385:SER:OG	2.19	0.59
1:Y:109:ARG:NH1	1:Y:110:ASP:OD1	2.35	0.59
1:c:282:CYS:HB3	1:o:317:ASP:HB2	1.84	0.59
1:d:106:PHE:HD1	1:d:110:ASP:HB3	1.68	0.59
1:i:535:ASN:N	1:i:535:ASN:OD1	2.31	0.59
1:k:109:ARG:NH1	1:k:110:ASP:OD1	2.35	0.59
1:n:106:PHE:HD1	1:n:110:ASP:HB3	1.68	0.59
1:v:109:ARG:NH1	1:v:110:ASP:OD1	2.35	0.59
1:2:109:ARG:NH1	1:2:110:ASP:OD1	2.35	0.59
1:4:109:ARG:NH1	1:4:110:ASP:OD1	2.35	0.59
1:6:499:ASP:HA	1:6:504:ARG:HH11	1.66	0.59
1:A:40:CYS:HB2	1:E:222:GLU:HA	1.85	0.59
1:G:109:ARG:NH1	1:G:110:ASP:OD1	2.35	0.59
1:M:106:PHE:HD1	1:M:110:ASP:HB3	1.68	0.59
1:N:535:ASN:N	1:N:535:ASN:OD1	2.31	0.59
1:O:109:ARG:NH1	1:O:110:ASP:OD1	2.35	0.59
1:X:317:ASP:HB2	1:e:282:CYS:HB3	1.84	0.59
1:Z:282:CYS:HB3	1:4:317:ASP:HB2	1.84	0.59
1:d:385:SER:OG	1:l:295:TYR:O	2.19	0.59
1:h:106:PHE:HD1	1:h:110:ASP:HB3	1.68	0.59
1:h:287:PRO:HB2	1:h:288:TRP:CE3	2.36	0.59
1:m:535:ASN:OD1	1:m:535:ASN:N	2.31	0.59
1:n:109:ARG:NH1	1:n:110:ASP:OD1	2.35	0.59
1:t:106:PHE:HD1	1:t:110:ASP:HB3	1.68	0.59
1:t:109:ARG:NH1	1:t:110:ASP:OD1	2.35	0.59
1:u:40:CYS:HB2	1:2:222:GLU:HA	1.84	0.59
1:v:40:CYS:HB2	1:w:222:GLU:HA	1.85	0.59
1:w:168:LEU:HD13	1:y:261:ASN:HB2	1.83	0.59
1:5:306:LEU:O	1:5:311:ASN:ND2	2.33	0.59
1:6:306:LEU:O	1:6:311:ASN:ND2	2.33	0.59
1:8:109:ARG:NH1	1:8:110:ASP:OD1	2.35	0.59
1:G:40:CYS:HB2	1:W:222:GLU:HA	1.84	0.59
1:H:306:LEU:O	1:H:311:ASN:ND2	2.33	0.59
1:I:109:ARG:NH1	1:I:110:ASP:OD1	2.35	0.59
1:J:282:CYS:HB3	1:L:317:ASP:HB2	1.85	0.59
1:K:194:THR:HG21	1:K:216:ALA:N	2.15	0.59
1:K:222:GLU:HA	1:7:40:CYS:HB2	1.84	0.59
1:K:282:CYS:HB3	1:a:317:ASP:HB2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:109:ARG:NH1	1:L:110:ASP:OD1	2.35	0.59
1:N:133:LEU:HD11	1:N:155:ILE:HG12	1.82	0.59
1:W:499:ASP:HA	1:W:504:ARG:HH11	1.66	0.59
1:Z:109:ARG:NH1	1:Z:110:ASP:OD1	2.35	0.59
1:d:109:ARG:NH1	1:d:110:ASP:OD1	2.35	0.59
1:i:133:LEU:HD11	1:i:155:ILE:HG12	1.82	0.59
1:l:109:ARG:NH1	1:l:110:ASP:OD1	2.35	0.59
1:v:222:GLU:HA	1:1:40:CYS:HB2	1.85	0.59
1:1:535:ASN:N	1:1:535:ASN:OD1	2.31	0.59
1:3:317:ASP:HB2	1:4:282:CYS:HB3	1.85	0.59
1:5:109:ARG:NH1	1:5:110:ASP:OD1	2.35	0.59
1:A:287:PRO:HB2	1:A:288:TRP:CE3	2.36	0.59
1:H:109:ARG:NH1	1:H:110:ASP:OD1	2.35	0.59
1:I:304:GLN:OE1	1:I:308:ASN:ND2	2.36	0.59
1:J:194:THR:HG21	1:J:216:ALA:N	2.15	0.59
1:K:304:GLN:OE1	1:K:308:ASN:ND2	2.36	0.59
1:N:106:PHE:HD1	1:N:110:ASP:HB3	1.68	0.59
1:O:106:PHE:HD1	1:O:110:ASP:HB3	1.68	0.59
1:X:304:GLN:OE1	1:X:308:ASN:ND2	2.36	0.59
1:c:168:LEU:HD13	1:p:261:ASN:HB2	1.83	0.59
1:c:306:LEU:O	1:c:311:ASN:ND2	2.33	0.59
1:e:306:LEU:O	1:e:311:ASN:ND2	2.33	0.59
1:f:222:GLU:HA	1:z:40:CYS:HB2	1.85	0.59
1:i:295:TYR:O	1:k:385:SER:OG	2.19	0.59
1:p:222:GLU:HA	1:6:40:CYS:HB2	1.84	0.59
1:r:385:SER:OG	1:s:295:TYR:O	2.19	0.59
1:t:40:CYS:HB2	1:6:222:GLU:HA	1.84	0.59
1:u:109:ARG:NH1	1:u:110:ASP:OD1	2.35	0.59
1:v:287:PRO:HB2	1:v:288:TRP:CE3	2.36	0.59
1:w:535:ASN:N	1:w:535:ASN:OD1	2.31	0.59
1:z:109:ARG:NH1	1:z:110:ASP:OD1	2.35	0.59
1:G:194:THR:CG2	1:G:216:ALA:H	2.12	0.59
1:J:304:GLN:OE1	1:J:308:ASN:ND2	2.36	0.59
1:N:304:GLN:OE1	1:N:308:ASN:ND2	2.36	0.59
1:O:282:CYS:HB3	1:m:317:ASP:HB2	1.84	0.59
1:Q:40:CYS:HB2	1:S:222:GLU:HA	1.84	0.59
1:T:317:ASP:HB2	1:l:282:CYS:HB3	1.84	0.59
1:T:385:SER:OG	1:d:295:TYR:O	2.19	0.59
1:V:261:ASN:HB2	1:e:168:LEU:HD13	1.83	0.59
1:a:109:ARG:NH1	1:a:110:ASP:OD1	2.35	0.59
1:c:194:THR:HG21	1:c:216:ALA:N	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:157:ILE:HG12	1:h:449:VAL:HG22	1.82	0.59
1:i:106:PHE:HD1	1:i:110:ASP:HB3	1.68	0.59
1:i:304:GLN:OE1	1:i:308:ASN:ND2	2.36	0.59
1:j:282:CYS:HB3	1:k:317:ASP:HB2	1.84	0.59
1:k:106:PHE:HD1	1:k:110:ASP:HB3	1.68	0.59
1:l:106:PHE:HD1	1:l:110:ASP:HB3	1.68	0.59
1:o:304:GLN:OE1	1:o:308:ASN:ND2	2.36	0.59
1:r:261:ASN:HB2	1:s:168:LEU:HD13	1.82	0.59
1:t:194:THR:CG2	1:t:216:ALA:H	2.12	0.59
1:t:317:ASP:HB2	1:v:282:CYS:HB3	1.84	0.59
1:u:304:GLN:OE1	1:u:308:ASN:ND2	2.36	0.59
1:2:194:THR:HG21	1:2:216:ALA:N	2.15	0.59
1:3:109:ARG:NH1	1:3:110:ASP:OD1	2.35	0.59
1:4:304:GLN:OE1	1:4:308:ASN:ND2	2.36	0.59
1:5:304:GLN:OE1	1:5:308:ASN:ND2	2.36	0.59
1:A:282:CYS:HB3	1:G:317:ASP:HB2	1.85	0.59
1:A:385:SER:OG	1:G:295:TYR:O	2.19	0.59
1:B:160:ASP:OD1	1:B:164:ARG:HB3	2.03	0.59
1:D:106:PHE:HD1	1:D:110:ASP:HB3	1.68	0.59
1:D:317:ASP:HB2	1:P:282:CYS:HB3	1.84	0.59
1:D:385:SER:OG	1:N:295:TYR:O	2.19	0.59
1:E:535:ASN:OD1	1:E:535:ASN:N	2.31	0.59
1:G:304:GLN:OE1	1:G:308:ASN:ND2	2.36	0.59
1:H:160:ASP:OD1	1:H:164:ARG:HB3	2.03	0.59
1:H:304:GLN:OE1	1:H:308:ASN:ND2	2.36	0.59
1:L:40:CYS:HB2	1:b:222:GLU:HA	1.85	0.59
1:M:109:ARG:NH1	1:M:110:ASP:OD1	2.35	0.59
1:M:157:ILE:HG12	1:M:449:VAL:HG22	1.82	0.59
1:M:160:ASP:OD1	1:M:164:ARG:HB3	2.03	0.59
1:N:160:ASP:OD1	1:N:164:ARG:HB3	2.03	0.59
1:T:222:GLU:HA	1:i:40:CYS:HB2	1.84	0.59
1:V:109:ARG:NH1	1:V:110:ASP:OD1	2.35	0.59
1:V:222:GLU:HA	1:W:40:CYS:HB2	1.84	0.59
1:V:317:ASP:HB2	1:X:282:CYS:HB3	1.84	0.59
1:Y:40:CYS:HB2	1:4:222:GLU:HA	1.84	0.59
1:h:109:ARG:NH1	1:h:110:ASP:OD1	2.35	0.59
1:h:160:ASP:OD1	1:h:164:ARG:HB3	2.03	0.59
1:i:160:ASP:OD1	1:i:164:ARG:HB3	2.03	0.59
1:o:282:CYS:HB3	1:p:317:ASP:HB2	1.84	0.59
1:p:109:ARG:NH1	1:p:110:ASP:OD1	2.35	0.59
1:t:295:TYR:O	1:v:385:SER:OG	2.19	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:304:GLN:OE1	1:t:308:ASN:ND2	2.36	0.59
1:1:160:ASP:OD1	1:1:164:ARG:HB3	2.03	0.59
1:1:306:LEU:O	1:1:311:ASN:ND2	2.33	0.59
1:2:106:PHE:HD1	1:2:110:ASP:HB3	1.68	0.59
1:2:304:GLN:OE1	1:2:308:ASN:ND2	2.36	0.59
1:4:194:THR:HG21	1:4:216:ALA:N	2.15	0.59
1:5:160:ASP:OD1	1:5:164:ARG:HB3	2.03	0.59
1:6:109:ARG:NH1	1:6:110:ASP:OD1	2.35	0.59
1:C:160:ASP:OD1	1:C:164:ARG:HB3	2.03	0.59
1:D:304:GLN:OE1	1:D:308:ASN:ND2	2.36	0.59
1:F:304:GLN:OE1	1:F:308:ASN:ND2	2.36	0.59
1:J:106:PHE:HD1	1:J:110:ASP:HB3	1.68	0.59
1:N:40:CYS:HB2	1:m:222:GLU:HA	1.84	0.59
1:N:109:ARG:NH1	1:N:110:ASP:OD1	2.35	0.59
1:O:499:ASP:HA	1:O:504:ARG:HH11	1.66	0.59
1:R:106:PHE:HD1	1:R:110:ASP:HB3	1.68	0.59
1:S:106:PHE:HD1	1:S:110:ASP:HB3	1.68	0.59
1:V:282:CYS:HB3	1:e:317:ASP:HB2	1.84	0.59
1:W:109:ARG:NH1	1:W:110:ASP:OD1	2.35	0.59
1:a:160:ASP:OD1	1:a:164:ARG:HB3	2.03	0.59
1:c:160:ASP:OD1	1:c:164:ARG:HB3	2.03	0.59
1:c:222:GLU:HA	1:s:40:CYS:HB2	1.85	0.59
1:d:304:GLN:OE1	1:d:308:ASN:ND2	2.36	0.59
1:e:160:ASP:OD1	1:e:164:ARG:HB3	2.03	0.59
1:g:160:ASP:OD1	1:g:164:ARG:HB3	2.03	0.59
1:i:109:ARG:NH1	1:i:110:ASP:OD1	2.35	0.59
1:j:109:ARG:NH1	1:j:110:ASP:OD1	2.35	0.59
1:m:385:SER:OG	1:n:295:TYR:O	2.19	0.59
1:n:304:GLN:OE1	1:n:308:ASN:ND2	2.36	0.59
1:6:282:CYS:HB3	1:7:317:ASP:HB2	1.84	0.59
1:B:106:PHE:HD1	1:B:110:ASP:HB3	1.68	0.59
1:B:306:LEU:O	1:B:311:ASN:ND2	2.33	0.59
1:F:160:ASP:OD1	1:F:164:ARG:HB3	2.03	0.59
1:H:424:GLU:H	1:Y:535:ASN:ND2	2.00	0.59
1:O:317:ASP:HB2	1:n:282:CYS:HB3	1.85	0.59
1:P:127:HIS:CD2	1:P:237:THR:HG22	2.38	0.59
1:Q:127:HIS:CD2	1:Q:237:THR:HG22	2.38	0.59
1:T:295:TYR:O	1:l:385:SER:OG	2.19	0.59
1:Z:160:ASP:OD1	1:Z:164:ARG:HB3	2.03	0.59
1:Z:194:THR:HG21	1:Z:216:ALA:N	2.15	0.59
1:e:194:THR:HG21	1:e:216:ALA:N	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:304:GLN:OE1	1:g:308:ASN:ND2	2.36	0.59
1:j:127:HIS:CD2	1:j:237:THR:HG22	2.38	0.59
1:k:304:GLN:OE1	1:k:308:ASN:ND2	2.36	0.59
1:q:106:PHE:HD1	1:q:110:ASP:HB3	1.68	0.59
1:r:106:PHE:HD1	1:r:110:ASP:HB3	1.68	0.59
1:r:222:GLU:HA	1:x:40:CYS:HB2	1.84	0.59
1:u:306:LEU:O	1:u:311:ASN:ND2	2.33	0.59
1:w:194:THR:CG2	1:w:216:ALA:H	2.12	0.59
1:x:127:HIS:CD2	1:x:237:THR:HG22	2.38	0.59
1:y:160:ASP:OD1	1:y:164:ARG:HB3	2.03	0.59
1:y:304:GLN:OE1	1:y:308:ASN:ND2	2.36	0.59
1:z:282:CYS:HB3	1:1:317:ASP:HB2	1.84	0.59
1:3:160:ASP:OD1	1:3:164:ARG:HB3	2.03	0.59
1:5:106:PHE:HD1	1:5:110:ASP:HB3	1.68	0.59
1:C:304:GLN:OE1	1:C:308:ASN:ND2	2.36	0.58
1:D:295:TYR:O	1:P:385:SER:OG	2.19	0.58
1:H:106:PHE:HD1	1:H:110:ASP:HB3	1.68	0.58
1:K:106:PHE:HD1	1:K:110:ASP:HB3	1.68	0.58
1:K:127:HIS:CD2	1:K:237:THR:HG22	2.38	0.58
1:P:106:PHE:HD1	1:P:110:ASP:HB3	1.68	0.58
1:P:109:ARG:NH1	1:P:110:ASP:OD1	2.35	0.58
1:S:261:ASN:HB2	1:U:168:LEU:HD13	1.83	0.58
1:S:385:SER:OG	1:U:295:TYR:O	2.19	0.58
1:T:160:ASP:OD1	1:T:164:ARG:HB3	2.03	0.58
1:U:40:CYS:HB2	1:e:222:GLU:HA	1.85	0.58
1:W:160:ASP:OD1	1:W:164:ARG:HB3	2.03	0.58
1:W:282:CYS:HB3	1:Y:317:ASP:HB2	1.84	0.58
1:X:499:ASP:HA	1:X:504:ARG:HH11	1.66	0.58
1:a:127:HIS:CD2	1:a:237:THR:HG22	2.38	0.58
1:c:317:ASP:HB2	1:p:282:CYS:HB3	1.84	0.58
1:d:282:CYS:HB3	1:l:317:ASP:HB2	1.85	0.58
1:j:106:PHE:HD1	1:j:110:ASP:HB3	1.68	0.58
1:l:499:ASP:HA	1:l:504:ARG:HH11	1.66	0.58
1:m:160:ASP:OD1	1:m:164:ARG:HB3	2.03	0.58
1:o:127:HIS:CD2	1:o:237:THR:HG22	2.38	0.58
1:u:106:PHE:HD1	1:u:110:ASP:HB3	1.68	0.58
1:5:424:GLU:H	1:7:535:ASN:ND2	2.00	0.58
1:8:160:ASP:OD1	1:8:164:ARG:HB3	2.03	0.58
1:A:160:ASP:OD1	1:A:164:ARG:HB3	2.03	0.58
1:E:194:THR:CG2	1:E:216:ALA:H	2.12	0.58
1:G:282:CYS:HB3	1:I:317:ASP:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:304:GLN:OE1	1:L:308:ASN:ND2	2.36	0.58
1:O:385:SER:OG	1:m:295:TYR:O	2.19	0.58
1:S:499:ASP:HA	1:S:504:ARG:HH11	1.66	0.58
1:T:109:ARG:NH1	1:T:110:ASP:OD1	2.35	0.58
1:U:127:HIS:CD2	1:U:237:THR:HG22	2.38	0.58
1:X:127:HIS:CD2	1:X:237:THR:HG22	2.38	0.58
1:j:385:SER:OG	1:k:295:TYR:O	2.19	0.58
1:o:499:ASP:HA	1:o:504:ARG:HH11	1.66	0.58
1:s:127:HIS:CD2	1:s:237:THR:HG22	2.38	0.58
1:s:160:ASP:OD1	1:s:164:ARG:HB3	2.03	0.58
1:t:282:CYS:HB3	1:u:317:ASP:HB2	1.84	0.58
1:y:109:ARG:NH1	1:y:110:ASP:OD1	2.35	0.58
1:z:295:TYR:O	1:2:385:SER:OG	2.19	0.58
1:1:106:PHE:HD1	1:1:110:ASP:HB3	1.68	0.58
1:3:127:HIS:CD2	1:3:237:THR:HG22	2.38	0.58
1:4:127:HIS:CD2	1:4:237:THR:HG22	2.38	0.58
1:6:160:ASP:OD1	1:6:164:ARG:HB3	2.03	0.58
1:A:222:GLU:HA	1:B:40:CYS:HB2	1.85	0.58
1:E:109:ARG:NH1	1:E:110:ASP:OD1	2.35	0.58
1:F:40:CYS:HB2	1:G:222:GLU:HA	1.85	0.58
1:F:109:ARG:NH1	1:F:110:ASP:OD1	2.35	0.58
1:F:127:HIS:CD2	1:F:237:THR:HG22	2.38	0.58
1:F:499:ASP:HA	1:F:504:ARG:HH11	1.67	0.58
1:I:106:PHE:HD1	1:I:110:ASP:HB3	1.68	0.58
1:I:306:LEU:O	1:I:311:ASN:ND2	2.33	0.58
1:J:127:HIS:CD2	1:J:237:THR:HG22	2.38	0.58
1:M:127:HIS:CD2	1:M:237:THR:HG22	2.38	0.58
1:M:401:CYS:HA	1:M:405:MET:SD	2.44	0.58
1:P:160:ASP:OD1	1:P:164:ARG:HB3	2.03	0.58
1:Q:106:PHE:HD1	1:Q:110:ASP:HB3	1.68	0.58
1:R:282:CYS:HB3	1:S:317:ASP:HB2	1.84	0.58
1:U:160:ASP:OD1	1:U:164:ARG:HB3	2.03	0.58
1:U:401:CYS:HA	1:U:405:MET:SD	2.44	0.58
1:Y:401:CYS:HA	1:Y:405:MET:SD	2.44	0.58
1:e:401:CYS:HA	1:e:405:MET:SD	2.44	0.58
1:h:401:CYS:HA	1:h:405:MET:SD	2.44	0.58
1:i:366:LYS:HE2	1:i:368:GLN:HE21	1.69	0.58
1:l:366:LYS:HE2	1:l:368:GLN:HE21	1.69	0.58
1:m:109:ARG:NH1	1:m:110:ASP:OD1	2.35	0.58
1:q:282:CYS:HB3	1:r:317:ASP:HB2	1.84	0.58
1:r:499:ASP:HA	1:r:504:ARG:HH11	1.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:401:CYS:HA	1:s:405:MET:SD	2.44	0.58
1:v:160:ASP:OD1	1:v:164:ARG:HB3	2.03	0.58
1:w:109:ARG:NH1	1:w:110:ASP:OD1	2.35	0.58
1:x:106:PHE:HD1	1:x:110:ASP:HB3	1.68	0.58
1:y:127:HIS:CD2	1:y:237:THR:HG22	2.38	0.58
1:z:304:GLN:OE1	1:z:308:ASN:ND2	2.36	0.58
1:2:127:HIS:CD2	1:2:237:THR:HG22	2.38	0.58
1:4:106:PHE:HD1	1:4:110:ASP:HB3	1.68	0.58
1:7:401:CYS:HA	1:7:405:MET:SD	2.44	0.58
1:8:194:THR:HG21	1:8:216:ALA:N	2.15	0.58
1:B:317:ASP:HB2	1:L:282:CYS:HB3	1.85	0.58
1:D:282:CYS:HB3	1:N:317:ASP:HB2	1.84	0.58
1:E:127:HIS:CD2	1:E:237:THR:HG22	2.38	0.58
1:H:282:CYS:HB3	1:W:317:ASP:HB2	1.84	0.58
1:I:366:LYS:HE2	1:I:368:GLN:HE21	1.69	0.58
1:J:385:SER:OG	1:L:295:TYR:O	2.19	0.58
1:L:106:PHE:HD1	1:L:110:ASP:HB3	1.68	0.58
1:L:127:HIS:CD2	1:L:237:THR:HG22	2.38	0.58
1:M:317:ASP:HB2	1:b:282:CYS:HB3	1.84	0.58
1:N:366:LYS:HE2	1:N:368:GLN:HE21	1.69	0.58
1:N:401:CYS:HA	1:N:405:MET:SD	2.44	0.58
1:O:366:LYS:HE2	1:O:368:GLN:HE21	1.69	0.58
1:R:127:HIS:CD2	1:R:237:THR:HG22	2.38	0.58
1:S:282:CYS:HB3	1:U:317:ASP:HB2	1.84	0.58
1:T:194:THR:HG21	1:T:216:ALA:N	2.15	0.58
1:T:401:CYS:HA	1:T:405:MET:SD	2.44	0.58
1:V:295:TYR:O	1:X:385:SER:OG	2.19	0.58
1:W:366:LYS:HE2	1:W:368:GLN:HE21	1.69	0.58
1:W:401:CYS:HA	1:W:405:MET:SD	2.44	0.58
1:c:109:ARG:NH1	1:c:110:ASP:OD1	2.35	0.58
1:c:401:CYS:HA	1:c:405:MET:SD	2.44	0.58
1:e:106:PHE:HD1	1:e:110:ASP:HB3	1.68	0.58
1:g:346:LYS:HG2	1:g:514:GLN:HB3	1.86	0.58
1:g:401:CYS:HA	1:g:405:MET:SD	2.44	0.58
1:h:127:HIS:CD2	1:h:237:THR:HG22	2.38	0.58
1:i:317:ASP:HB2	1:k:282:CYS:HB3	1.84	0.58
1:j:160:ASP:OD1	1:j:164:ARG:HB3	2.03	0.58
1:k:222:GLU:HA	1:w:40:CYS:HB2	1.84	0.58
1:q:127:HIS:CD2	1:q:237:THR:HG22	2.38	0.58
1:r:401:CYS:HA	1:r:405:MET:SD	2.44	0.58
1:s:306:LEU:O	1:s:311:ASN:ND2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:222:GLU:HA	1:y:40:CYS:HB2	1.85	0.58
1:u:401:CYS:HA	1:u:405:MET:SD	2.44	0.58
1:1:401:CYS:HA	1:1:405:MET:SD	2.44	0.58
1:6:366:LYS:HE2	1:6:368:GLN:HE21	1.69	0.58
1:6:401:CYS:HA	1:6:405:MET:SD	2.44	0.58
1:A:127:HIS:CD2	1:A:237:THR:HG22	2.38	0.58
1:A:304:GLN:OE1	1:A:308:ASN:ND2	2.36	0.58
1:A:366:LYS:HE2	1:A:368:GLN:HE21	1.69	0.58
1:B:385:SER:OG	1:J:295:TYR:O	2.18	0.58
1:B:401:CYS:HA	1:B:405:MET:SD	2.44	0.58
1:C:401:CYS:HA	1:C:405:MET:SD	2.44	0.58
1:D:222:GLU:HA	1:E:40:CYS:HB2	1.84	0.58
1:E:160:ASP:OD1	1:E:164:ARG:HB3	2.03	0.58
1:J:160:ASP:OD1	1:J:164:ARG:HB3	2.03	0.58
1:N:127:HIS:CD2	1:N:237:THR:HG22	2.38	0.58
1:O:401:CYS:HA	1:O:405:MET:SD	2.44	0.58
1:R:304:GLN:OE1	1:R:308:ASN:ND2	2.36	0.58
1:S:401:CYS:HA	1:S:405:MET:SD	2.44	0.58
1:T:282:CYS:HB3	1:d:317:ASP:HB2	1.85	0.58
1:V:401:CYS:HA	1:V:405:MET:SD	2.44	0.58
1:W:127:HIS:CD2	1:W:237:THR:HG22	2.38	0.58
1:X:160:ASP:OD1	1:X:164:ARG:HB3	2.03	0.58
1:Y:160:ASP:OD1	1:Y:164:ARG:HB3	2.03	0.58
1:Y:304:GLN:OE1	1:Y:308:ASN:ND2	2.36	0.58
1:c:127:HIS:CD2	1:c:237:THR:HG22	2.38	0.58
1:e:109:ARG:NH1	1:e:110:ASP:OD1	2.35	0.58
1:f:282:CYS:HB3	1:h:317:ASP:HB2	1.85	0.58
1:i:127:HIS:CD2	1:i:237:THR:HG22	2.38	0.58
1:i:346:LYS:HG2	1:i:514:GLN:HB3	1.86	0.58
1:i:401:CYS:HA	1:i:405:MET:SD	2.44	0.58
1:l:401:CYS:HA	1:l:405:MET:SD	2.44	0.58
1:m:127:HIS:CD2	1:m:237:THR:HG22	2.38	0.58
1:m:282:CYS:HB3	1:n:317:ASP:HB2	1.85	0.58
1:m:304:GLN:OE1	1:m:308:ASN:ND2	2.36	0.58
1:m:401:CYS:HA	1:m:405:MET:SD	2.44	0.58
1:o:106:PHE:HD1	1:o:110:ASP:HB3	1.68	0.58
1:q:304:GLN:OE1	1:q:308:ASN:ND2	2.36	0.58
1:r:282:CYS:HB3	1:s:317:ASP:HB2	1.84	0.58
1:r:304:GLN:OE1	1:r:308:ASN:ND2	2.36	0.58
1:t:127:HIS:CD2	1:t:237:THR:HG22	2.38	0.58
1:u:366:LYS:HE2	1:u:368:GLN:HE21	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:304:GLN:OE1	1:v:308:ASN:ND2	2.36	0.58
1:w:106:PHE:HD1	1:w:110:ASP:HB3	1.68	0.58
1:y:499:ASP:HA	1:y:504:ARG:HH11	1.67	0.58
1:z:106:PHE:HD1	1:z:110:ASP:HB3	1.68	0.58
1:z:127:HIS:CD2	1:z:237:THR:HG22	2.38	0.58
1:1:346:LYS:HG2	1:1:514:GLN:HB3	1.86	0.58
1:7:127:HIS:CD2	1:7:237:THR:HG22	2.38	0.58
1:7:306:LEU:O	1:7:311:ASN:ND2	2.33	0.58
1:B:127:HIS:CD2	1:B:237:THR:HG22	2.38	0.58
1:C:346:LYS:HG2	1:C:514:GLN:HB3	1.86	0.58
1:G:127:HIS:CD2	1:G:237:THR:HG22	2.38	0.58
1:H:127:HIS:CD2	1:H:237:THR:HG22	2.38	0.58
1:H:222:GLU:HA	1:Z:40:CYS:HB2	1.84	0.58
1:I:127:HIS:CD2	1:I:237:THR:HG22	2.38	0.58
1:I:401:CYS:HA	1:I:405:MET:SD	2.44	0.58
1:J:401:CYS:HA	1:J:405:MET:SD	2.44	0.58
1:N:346:LYS:HG2	1:N:514:GLN:HB3	1.86	0.58
1:T:127:HIS:CD2	1:T:237:THR:HG22	2.38	0.58
1:U:304:GLN:OE1	1:U:308:ASN:ND2	2.36	0.58
1:U:306:LEU:O	1:U:311:ASN:ND2	2.33	0.58
1:U:346:LYS:HG2	1:U:514:GLN:HB3	1.86	0.58
1:Y:106:PHE:HD1	1:Y:110:ASP:HB3	1.68	0.58
1:a:304:GLN:OE1	1:a:308:ASN:ND2	2.36	0.58
1:c:106:PHE:HD1	1:c:110:ASP:HB3	1.68	0.58
1:d:401:CYS:HA	1:d:405:MET:SD	2.44	0.58
1:e:127:HIS:CD2	1:e:237:THR:HG22	2.38	0.58
1:e:304:GLN:OE1	1:e:308:ASN:ND2	2.36	0.58
1:h:304:GLN:OE1	1:h:308:ASN:ND2	2.36	0.58
1:l:127:HIS:CD2	1:l:237:THR:HG22	2.38	0.58
1:m:194:THR:HG21	1:m:216:ALA:N	2.15	0.58
1:o:160:ASP:OD1	1:o:164:ARG:HB3	2.03	0.58
1:o:385:SER:OG	1:p:295:TYR:O	2.19	0.58
1:p:366:LYS:HE2	1:p:368:GLN:HE21	1.69	0.58
1:p:401:CYS:HA	1:p:405:MET:SD	2.44	0.58
1:q:499:ASP:HA	1:q:504:ARG:HH11	1.67	0.58
1:r:366:LYS:HE2	1:r:368:GLN:HE21	1.69	0.58
1:s:346:LYS:HG2	1:s:514:GLN:HB3	1.86	0.58
1:u:160:ASP:OD1	1:u:164:ARG:HB3	2.03	0.58
1:v:366:LYS:HE2	1:v:368:GLN:HE21	1.69	0.58
1:w:127:HIS:CD2	1:w:237:THR:HG22	2.38	0.58
1:w:160:ASP:OD1	1:w:164:ARG:HB3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:424:GLU:H	1:y:535:ASN:ND2	2.01	0.58
1:2:160:ASP:OD1	1:2:164:ARG:HB3	2.03	0.58
1:5:317:ASP:HB2	1:7:282:CYS:HB3	1.85	0.58
1:5:401:CYS:HA	1:5:405:MET:SD	2.44	0.58
1:7:160:ASP:OD1	1:7:164:ARG:HB3	2.03	0.58
1:B:346:LYS:HG2	1:B:514:GLN:HB3	1.86	0.58
1:C:127:HIS:CD2	1:C:237:THR:HG22	2.38	0.58
1:E:106:PHE:HD1	1:E:110:ASP:HB3	1.68	0.58
1:I:160:ASP:OD1	1:I:164:ARG:HB3	2.03	0.58
1:O:127:HIS:CD2	1:O:237:THR:HG22	2.38	0.58
1:O:304:GLN:OE1	1:O:308:ASN:ND2	2.36	0.58
1:R:317:ASP:HB2	1:U:282:CYS:HB3	1.84	0.58
1:S:304:GLN:OE1	1:S:308:ASN:ND2	2.36	0.58
1:S:366:LYS:HE2	1:S:368:GLN:HE21	1.69	0.58
1:W:106:PHE:HD1	1:W:110:ASP:HB3	1.68	0.58
1:W:304:GLN:OE1	1:W:308:ASN:ND2	2.36	0.58
1:X:106:PHE:HD1	1:X:110:ASP:HB3	1.68	0.58
1:X:366:LYS:HE2	1:X:368:GLN:HE21	1.69	0.58
1:Y:127:HIS:CD2	1:Y:237:THR:HG22	2.38	0.58
1:c:304:GLN:OE1	1:c:308:ASN:ND2	2.36	0.58
1:d:160:ASP:OD1	1:d:164:ARG:HB3	2.03	0.58
1:d:346:LYS:HG2	1:d:514:GLN:HB3	1.86	0.58
1:g:106:PHE:HD1	1:g:110:ASP:HB3	1.68	0.58
1:h:366:LYS:HE2	1:h:368:GLN:HE21	1.69	0.58
1:l:160:ASP:OD1	1:l:164:ARG:HB3	2.03	0.58
1:l:304:GLN:OE1	1:l:308:ASN:ND2	2.36	0.58
1:n:160:ASP:OD1	1:n:164:ARG:HB3	2.03	0.58
1:n:346:LYS:HG2	1:n:514:GLN:HB3	1.86	0.58
1:n:401:CYS:HA	1:n:405:MET:SD	2.44	0.58
1:p:304:GLN:OE1	1:p:308:ASN:ND2	2.36	0.58
1:s:304:GLN:OE1	1:s:308:ASN:ND2	2.36	0.58
1:t:160:ASP:OD1	1:t:164:ARG:HB3	2.03	0.58
1:u:127:HIS:CD2	1:u:237:THR:HG22	2.38	0.58
1:v:127:HIS:CD2	1:v:237:THR:HG22	2.38	0.58
1:1:127:HIS:CD2	1:1:237:THR:HG22	2.38	0.58
1:2:40:CYS:HB2	1:3:222:GLU:HA	1.84	0.58
1:2:401:CYS:HA	1:2:405:MET:SD	2.44	0.58
1:5:127:HIS:CD2	1:5:237:THR:HG22	2.38	0.58
1:6:127:HIS:CD2	1:6:237:THR:HG22	2.38	0.58
1:7:106:PHE:HD1	1:7:110:ASP:HB3	1.68	0.58
1:7:304:GLN:OE1	1:7:308:ASN:ND2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:346:LYS:HG2	1:8:514:GLN:HB3	1.86	0.58
1:C:106:PHE:HD1	1:C:110:ASP:HB3	1.68	0.58
1:C:282:CYS:HB3	1:b:317:ASP:HB2	1.84	0.58
1:F:295:TYR:O	1:Q:385:SER:OG	2.19	0.58
1:G:160:ASP:OD1	1:G:164:ARG:HB3	2.03	0.58
1:H:401:CYS:HA	1:H:405:MET:SD	2.44	0.58
1:L:160:ASP:OD1	1:L:164:ARG:HB3	2.03	0.58
1:L:346:LYS:HG2	1:L:514:GLN:HB3	1.86	0.58
1:M:304:GLN:OE1	1:M:308:ASN:ND2	2.36	0.58
1:M:366:LYS:HE2	1:M:368:GLN:HE21	1.69	0.58
1:R:346:LYS:HG2	1:R:514:GLN:HB3	1.86	0.58
1:R:366:LYS:HE2	1:R:368:GLN:HE21	1.69	0.58
1:R:499:ASP:HA	1:R:504:ARG:HH11	1.66	0.58
1:T:304:GLN:OE1	1:T:308:ASN:ND2	2.36	0.58
1:V:160:ASP:OD1	1:V:164:ARG:HB3	2.03	0.58
1:V:304:GLN:OE1	1:V:308:ASN:ND2	2.36	0.58
1:V:366:LYS:HE2	1:V:368:GLN:HE21	1.69	0.58
1:W:346:LYS:HG2	1:W:514:GLN:HB3	1.86	0.58
1:Y:306:LEU:O	1:Y:311:ASN:ND2	2.33	0.58
1:c:346:LYS:HG2	1:c:514:GLN:HB3	1.86	0.58
1:e:40:CYS:HB2	1:h:222:GLU:HA	1.84	0.58
1:f:317:ASP:HB2	1:g:282:CYS:HB3	1.84	0.58
1:g:127:HIS:CD2	1:g:237:THR:HG22	2.38	0.58
1:g:317:ASP:HB2	1:h:282:CYS:HB3	1.84	0.58
1:o:366:LYS:HE2	1:o:368:GLN:HE21	1.69	0.58
1:p:160:ASP:OD1	1:p:164:ARG:HB3	2.03	0.58
1:q:317:ASP:HB2	1:s:282:CYS:HB3	1.84	0.58
1:x:385:SER:OG	1:y:295:TYR:O	2.19	0.58
1:1:281:PHE:H	1:2:85:THR:HG21	1.69	0.58
1:3:304:GLN:OE1	1:3:308:ASN:ND2	2.36	0.58
1:6:304:GLN:OE1	1:6:308:ASN:ND2	2.36	0.58
1:8:127:HIS:CD2	1:8:237:THR:HG22	2.38	0.58
1:A:106:PHE:HD1	1:A:110:ASP:HB3	1.68	0.58
1:B:304:GLN:OE1	1:B:308:ASN:ND2	2.36	0.58
1:C:317:ASP:HB2	1:M:282:CYS:HB3	1.84	0.58
1:H:346:LYS:HG2	1:H:514:GLN:HB3	1.86	0.58
1:J:40:CYS:HB2	1:a:222:GLU:HA	1.84	0.58
1:O:160:ASP:OD1	1:O:164:ARG:HB3	2.03	0.58
1:O:281:PHE:H	1:m:85:THR:HG21	1.69	0.58
1:S:306:LEU:O	1:S:311:ASN:ND2	2.33	0.58
1:X:401:CYS:HA	1:X:405:MET:SD	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:346:LYS:HG2	1:Y:514:GLN:HB3	1.86	0.58
1:Y:366:LYS:HE2	1:Y:368:GLN:HE21	1.69	0.58
1:Z:295:TYR:O	1:3:385:SER:OG	2.19	0.58
1:Z:304:GLN:OE1	1:Z:308:ASN:ND2	2.36	0.58
1:Z:346:LYS:HG2	1:Z:514:GLN:HB3	1.86	0.58
1:a:106:PHE:HD1	1:a:110:ASP:HB3	1.68	0.58
1:a:385:SER:OG	1:8:295:TYR:O	2.19	0.58
1:b:106:PHE:HD1	1:b:110:ASP:HB3	1.68	0.58
1:e:346:LYS:HG2	1:e:514:GLN:HB3	1.86	0.58
1:f:304:GLN:OE1	1:f:308:ASN:ND2	2.36	0.58
1:i:306:LEU:O	1:i:311:ASN:ND2	2.33	0.58
1:o:401:CYS:HA	1:o:405:MET:SD	2.44	0.58
1:q:160:ASP:OD1	1:q:164:ARG:HB3	2.03	0.58
1:q:346:LYS:HG2	1:q:514:GLN:HB3	1.86	0.58
1:q:366:LYS:HE2	1:q:368:GLN:HE21	1.69	0.58
1:x:304:GLN:OE1	1:x:308:ASN:ND2	2.36	0.58
1:x:346:LYS:HG2	1:x:514:GLN:HB3	1.86	0.58
1:z:160:ASP:OD1	1:z:164:ARG:HB3	2.03	0.58
1:z:346:LYS:HG2	1:z:514:GLN:HB3	1.86	0.58
1:1:385:SER:OG	1:2:295:TYR:O	2.19	0.58
1:6:346:LYS:HG2	1:6:514:GLN:HB3	1.86	0.58
1:7:346:LYS:HG2	1:7:514:GLN:HB3	1.86	0.58
1:7:366:LYS:HE2	1:7:368:GLN:HE21	1.69	0.58
1:A:85:THR:HG22	1:I:279:GLY:O	2.04	0.58
1:C:222:GLU:HA	1:D:40:CYS:HB2	1.84	0.58
1:E:85:THR:HG21	1:F:281:PHE:H	1.69	0.58
1:E:279:GLY:O	1:Q:85:THR:HG22	2.04	0.58
1:E:304:GLN:OE1	1:E:308:ASN:ND2	2.36	0.58
1:F:222:GLU:HA	1:R:40:CYS:HB2	1.85	0.58
1:F:346:LYS:HG2	1:F:514:GLN:HB3	1.86	0.58
1:F:401:CYS:HA	1:F:405:MET:SD	2.44	0.58
1:H:317:ASP:HB2	1:Y:282:CYS:HB3	1.85	0.58
1:I:307:GLU:HA	1:I:311:ASN:ND2	2.19	0.58
1:M:222:GLU:HA	1:c:40:CYS:HB2	1.84	0.58
1:N:279:GLY:O	1:P:85:THR:HG22	2.04	0.58
1:Q:304:GLN:OE1	1:Q:308:ASN:ND2	2.36	0.58
1:T:40:CYS:HB2	1:U:222:GLU:HA	1.84	0.58
1:T:85:THR:HG21	1:l:281:PHE:H	1.69	0.58
1:T:106:PHE:HD1	1:T:110:ASP:HB3	1.68	0.58
1:T:346:LYS:HG2	1:T:514:GLN:HB3	1.86	0.58
1:V:281:PHE:H	1:e:85:THR:HG21	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:127:HIS:CD2	1:Z:237:THR:HG22	2.38	0.58
1:Z:401:CYS:HA	1:Z:405:MET:SD	2.44	0.58
1:b:127:HIS:CD2	1:b:237:THR:HG22	2.38	0.58
1:b:304:GLN:OE1	1:b:308:ASN:ND2	2.36	0.58
1:g:222:GLU:HA	1:k:40:CYS:HB2	1.84	0.58
1:i:279:GLY:O	1:j:85:THR:HG22	2.04	0.58
1:m:346:LYS:HG2	1:m:514:GLN:HB3	1.86	0.58
1:n:366:LYS:HE2	1:n:368:GLN:HE21	1.69	0.58
1:r:306:LEU:O	1:r:311:ASN:ND2	2.33	0.58
1:v:106:PHE:HD1	1:v:110:ASP:HB3	1.68	0.58
1:w:85:THR:HG21	1:y:281:PHE:H	1.69	0.58
1:x:160:ASP:OD1	1:x:164:ARG:HB3	2.03	0.58
1:x:279:GLY:O	1:y:85:THR:HG22	2.04	0.58
1:x:401:CYS:HA	1:x:405:MET:SD	2.44	0.58
1:3:307:GLU:HA	1:3:311:ASN:ND2	2.19	0.58
1:5:222:GLU:HA	1:8:40:CYS:HB2	1.85	0.58
1:5:346:LYS:HG2	1:5:514:GLN:HB3	1.86	0.58
1:6:106:PHE:HD1	1:6:110:ASP:HB3	1.68	0.58
1:6:194:THR:HG21	1:6:216:ALA:N	2.15	0.58
1:8:304:GLN:OE1	1:8:308:ASN:ND2	2.36	0.58
1:C:109:ARG:NH1	1:C:110:ASP:OD1	2.35	0.57
1:C:281:PHE:H	1:b:85:THR:HG21	1.69	0.57
1:E:346:LYS:HG2	1:E:514:GLN:HB3	1.86	0.57
1:F:85:THR:HG22	1:Q:279:GLY:O	2.04	0.57
1:H:85:THR:HG22	1:Y:279:GLY:O	2.04	0.57
1:M:346:LYS:HG2	1:M:514:GLN:HB3	1.86	0.57
1:P:401:CYS:HA	1:P:405:MET:SD	2.44	0.57
1:Q:160:ASP:OD1	1:Q:164:ARG:HB3	2.03	0.57
1:Q:346:LYS:HG2	1:Q:514:GLN:HB3	1.86	0.57
1:Q:401:CYS:HA	1:Q:405:MET:SD	2.44	0.57
1:R:160:ASP:OD1	1:R:164:ARG:HB3	2.03	0.57
1:T:307:GLU:HA	1:T:311:ASN:ND2	2.19	0.57
1:W:194:THR:HG21	1:W:216:ALA:N	2.15	0.57
1:W:279:GLY:O	1:Y:85:THR:HG22	2.04	0.57
1:W:307:GLU:HA	1:W:311:ASN:ND2	2.19	0.57
1:b:401:CYS:HA	1:b:405:MET:SD	2.44	0.57
1:c:85:THR:HG21	1:p:281:PHE:H	1.69	0.57
1:f:85:THR:HG21	1:g:281:PHE:H	1.69	0.57
1:g:109:ARG:NH1	1:g:110:ASP:OD1	2.35	0.57
1:h:346:LYS:HG2	1:h:514:GLN:HB3	1.86	0.57
1:m:40:CYS:HB2	1:s:222:GLU:HA	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:40:CYS:HB2	1:y:222:GLU:HA	1.85	0.57
1:q:307:GLU:HA	1:q:311:ASN:ND2	2.19	0.57
1:r:127:HIS:CD2	1:r:237:THR:HG22	2.38	0.57
1:t:401:CYS:HA	1:t:405:MET:SD	2.44	0.57
1:u:307:GLU:HA	1:u:311:ASN:ND2	2.19	0.57
1:w:279:GLY:O	1:x:85:THR:HG22	2.04	0.57
1:w:304:GLN:OE1	1:w:308:ASN:ND2	2.36	0.57
1:w:317:ASP:HB2	1:y:282:CYS:HB3	1.85	0.57
1:w:346:LYS:HG2	1:w:514:GLN:HB3	1.86	0.57
1:z:366:LYS:HE2	1:z:368:GLN:HE21	1.69	0.57
1:1:304:GLN:OE1	1:1:308:ASN:ND2	2.36	0.57
1:3:106:PHE:HD1	1:3:110:ASP:HB3	1.68	0.57
1:5:85:THR:HG22	1:7:279:GLY:O	2.04	0.57
1:6:279:GLY:O	1:7:85:THR:HG22	2.04	0.57
1:6:307:GLU:HA	1:6:311:ASN:ND2	2.19	0.57
1:8:401:CYS:HA	1:8:405:MET:SD	2.44	0.57
1:A:85:THR:HG21	1:I:281:PHE:H	1.69	0.57
1:B:281:PHE:H	1:J:85:THR:HG21	1.69	0.57
1:C:85:THR:HG21	1:M:281:PHE:H	1.69	0.57
1:D:127:HIS:CD2	1:D:237:THR:HG22	2.38	0.57
1:D:279:GLY:O	1:N:85:THR:HG22	2.04	0.57
1:D:366:LYS:HE2	1:D:368:GLN:HE21	1.69	0.57
1:E:317:ASP:HB2	1:F:282:CYS:HB3	1.85	0.57
1:G:401:CYS:HA	1:G:405:MET:SD	2.44	0.57
1:H:40:CYS:HB2	1:I:222:GLU:HA	1.84	0.57
1:L:366:LYS:HE2	1:L:368:GLN:HE21	1.69	0.57
1:L:401:CYS:HA	1:L:405:MET:SD	2.44	0.57
1:R:307:GLU:HA	1:R:311:ASN:ND2	2.19	0.57
1:S:127:HIS:CD2	1:S:237:THR:HG22	2.38	0.57
1:T:279:GLY:O	1:d:85:THR:HG22	2.05	0.57
1:V:85:THR:HG21	1:X:281:PHE:H	1.69	0.57
1:V:279:GLY:O	1:e:85:THR:HG22	2.05	0.57
1:Z:385:SER:OG	1:4:295:TYR:O	2.19	0.57
1:a:366:LYS:HE2	1:a:368:GLN:HE21	1.69	0.57
1:c:85:THR:HG22	1:p:279:GLY:O	2.05	0.57
1:d:127:HIS:CD2	1:d:237:THR:HG22	2.38	0.57
1:d:366:LYS:HE2	1:d:368:GLN:HE21	1.69	0.57
1:f:106:PHE:HD1	1:f:110:ASP:HB3	1.68	0.57
1:f:127:HIS:CD2	1:f:237:THR:HG22	2.38	0.57
1:f:401:CYS:HA	1:f:405:MET:SD	2.44	0.57
1:g:85:THR:HG21	1:h:281:PHE:H	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:307:GLU:HA	1:i:311:ASN:ND2	2.19	0.57
1:k:127:HIS:CD2	1:k:237:THR:HG22	2.38	0.57
1:m:106:PHE:HD1	1:m:110:ASP:HB3	1.68	0.57
1:m:307:GLU:HA	1:m:311:ASN:ND2	2.20	0.57
1:m:366:LYS:HE2	1:m:368:GLN:HE21	1.69	0.57
1:o:281:PHE:H	1:p:85:THR:HG21	1.69	0.57
1:u:222:GLU:HA	1:5:40:CYS:HB2	1.85	0.57
1:u:279:GLY:O	1:v:85:THR:HG22	2.05	0.57
1:u:281:PHE:H	1:v:85:THR:HG21	1.69	0.57
1:y:401:CYS:HA	1:y:405:MET:SD	2.44	0.57
1:4:307:GLU:HA	1:4:311:ASN:ND2	2.19	0.57
1:5:85:THR:HG21	1:7:281:PHE:H	1.70	0.57
1:5:282:CYS:HB3	1:6:317:ASP:HB2	1.85	0.57
1:5:366:LYS:HE2	1:5:368:GLN:HE21	1.69	0.57
1:A:401:CYS:HA	1:A:405:MET:SD	2.44	0.57
1:D:401:CYS:HA	1:D:405:MET:SD	2.44	0.57
1:F:106:PHE:HD1	1:F:110:ASP:HB3	1.68	0.57
1:K:295:TYR:O	1:8:385:SER:OG	2.19	0.57
1:N:307:GLU:HA	1:N:311:ASN:ND2	2.19	0.57
1:P:366:LYS:HE2	1:P:368:GLN:HE21	1.69	0.57
1:Z:222:GLU:HA	1:a:40:CYS:HB2	1.84	0.57
1:a:401:CYS:HA	1:a:405:MET:SD	2.44	0.57
1:b:160:ASP:OD1	1:b:164:ARG:HB3	2.03	0.57
1:i:85:THR:HG22	1:k:279:GLY:O	2.04	0.57
1:k:401:CYS:HA	1:k:405:MET:SD	2.44	0.57
1:m:279:GLY:O	1:n:85:THR:HG22	2.05	0.57
1:p:106:PHE:HD1	1:p:110:ASP:HB3	1.68	0.57
1:r:160:ASP:OD1	1:r:164:ARG:HB3	2.03	0.57
1:v:401:CYS:HA	1:v:405:MET:SD	2.44	0.57
1:y:106:PHE:HD1	1:y:110:ASP:HB3	1.68	0.57
1:y:346:LYS:HG2	1:y:514:GLN:HB3	1.86	0.57
1:z:401:CYS:HA	1:z:405:MET:SD	2.44	0.57
1:3:40:CYS:HB2	1:8:222:GLU:HA	1.84	0.57
1:3:401:CYS:HA	1:3:405:MET:SD	2.44	0.57
1:4:366:LYS:HE2	1:4:368:GLN:HE21	1.69	0.57
1:B:257:THR:HG22	1:J:319:MET:HE2	1.87	0.57
1:H:366:LYS:HE2	1:H:368:GLN:HE21	1.69	0.57
1:J:281:PHE:H	1:L:85:THR:HG21	1.69	0.57
1:K:307:GLU:HA	1:K:311:ASN:ND2	2.20	0.57
1:K:366:LYS:HE2	1:K:368:GLN:HE21	1.69	0.57
1:S:160:ASP:OD1	1:S:164:ARG:HB3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:281:PHE:H	1:U:85:THR:HG21	1.69	0.57
1:T:366:LYS:HE2	1:T:368:GLN:HE21	1.69	0.57
1:V:85:THR:HG22	1:X:279:GLY:O	2.04	0.57
1:a:282:CYS:HB3	1:8:317:ASP:HB2	1.85	0.57
1:f:160:ASP:OD1	1:f:164:ARG:HB3	2.03	0.57
1:j:304:GLN:OE1	1:j:308:ASN:ND2	2.36	0.57
1:j:366:LYS:HE2	1:j:368:GLN:HE21	1.69	0.57
1:j:401:CYS:HA	1:j:405:MET:SD	2.44	0.57
1:k:160:ASP:OD1	1:k:164:ARG:HB3	2.03	0.57
1:k:366:LYS:HE2	1:k:368:GLN:HE21	1.69	0.57
1:m:281:PHE:H	1:n:85:THR:HG21	1.69	0.57
1:n:127:HIS:CD2	1:n:237:THR:HG22	2.38	0.57
1:o:279:GLY:O	1:p:85:THR:HG22	2.04	0.57
1:o:346:LYS:HG2	1:o:514:GLN:HB3	1.86	0.57
1:r:194:THR:HG21	1:r:216:ALA:N	2.15	0.57
1:z:85:THR:HG21	1:2:281:PHE:H	1.69	0.57
1:2:346:LYS:HG2	1:2:514:GLN:HB3	1.86	0.57
1:3:346:LYS:HG2	1:3:514:GLN:HB3	1.86	0.57
1:3:366:LYS:HE2	1:3:368:GLN:HE21	1.69	0.57
1:4:401:CYS:HA	1:4:405:MET:SD	2.44	0.57
1:E:401:CYS:HA	1:E:405:MET:SD	2.44	0.57
1:H:85:THR:HG21	1:Y:281:PHE:H	1.70	0.57
1:H:307:GLU:HA	1:H:311:ASN:ND2	2.19	0.57
1:I:346:LYS:HG2	1:I:514:GLN:HB3	1.86	0.57
1:J:346:LYS:HG2	1:J:514:GLN:HB3	1.86	0.57
1:K:279:GLY:O	1:a:85:THR:HG22	2.05	0.57
1:K:401:CYS:HA	1:K:405:MET:SD	2.44	0.57
1:M:85:THR:HG21	1:b:281:PHE:H	1.70	0.57
1:S:194:THR:HG21	1:S:216:ALA:N	2.15	0.57
1:V:106:PHE:HD1	1:V:110:ASP:HB3	1.68	0.57
1:X:346:LYS:HG2	1:X:514:GLN:HB3	1.86	0.57
1:Z:317:ASP:HB2	1:3:282:CYS:HB3	1.85	0.57
1:i:424:GLU:H	1:k:535:ASN:ND2	2.01	0.57
1:r:279:GLY:O	1:s:85:THR:HG22	2.05	0.57
1:t:279:GLY:O	1:u:85:THR:HG22	2.04	0.57
1:2:366:LYS:HE2	1:2:368:GLN:HE21	1.69	0.57
1:3:85:THR:HG22	1:4:279:GLY:O	2.05	0.57
1:8:366:LYS:HE2	1:8:368:GLN:HE21	1.69	0.57
1:D:160:ASP:OD1	1:D:164:ARG:HB3	2.03	0.57
1:E:307:GLU:HA	1:E:311:ASN:ND2	2.19	0.57
1:G:279:GLY:O	1:I:85:THR:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:304:GLN:OE1	1:P:308:ASN:ND2	2.36	0.57
1:S:279:GLY:O	1:U:85:THR:HG22	2.05	0.57
1:T:281:PHE:H	1:d:85:THR:HG21	1.69	0.57
1:V:127:HIS:CD2	1:V:237:THR:HG22	2.38	0.57
1:V:346:LYS:HG2	1:V:514:GLN:HB3	1.86	0.57
1:W:281:PHE:H	1:Y:85:THR:HG21	1.69	0.57
1:d:307:GLU:HA	1:d:311:ASN:ND2	2.19	0.57
1:i:282:CYS:HB3	1:j:317:ASP:HB2	1.85	0.57
1:j:279:GLY:O	1:k:85:THR:HG22	2.04	0.57
1:r:281:PHE:H	1:s:85:THR:HG21	1.70	0.57
1:w:307:GLU:HA	1:w:311:ASN:ND2	2.19	0.57
1:w:401:CYS:HA	1:w:405:MET:SD	2.44	0.57
1:z:279:GLY:O	1:l:85:THR:HG22	2.05	0.57
1:5:281:PHE:H	1:6:85:THR:HG21	1.70	0.57
1:B:282:CYS:HB3	1:J:317:ASP:HB2	1.84	0.57
1:C:279:GLY:O	1:b:85:THR:HG22	2.05	0.57
1:C:307:GLU:HA	1:C:311:ASN:ND2	2.19	0.57
1:H:281:PHE:H	1:W:85:THR:HG21	1.70	0.57
1:J:366:LYS:HE2	1:J:368:GLN:HE21	1.69	0.57
1:K:281:PHE:H	1:a:85:THR:HG21	1.69	0.57
1:M:85:THR:HG22	1:b:279:GLY:O	2.05	0.57
1:M:424:GLU:H	1:b:535:ASN:ND2	2.01	0.57
1:O:346:LYS:HG2	1:O:514:GLN:HB3	1.86	0.57
1:U:307:GLU:HA	1:U:311:ASN:ND2	2.20	0.57
1:Z:85:THR:HG21	1:3:281:PHE:H	1.70	0.57
1:Z:366:LYS:HE2	1:Z:368:GLN:HE21	1.69	0.57
1:a:281:PHE:H	1:8:85:THR:HG21	1.70	0.57
1:a:346:LYS:HG2	1:a:514:GLN:HB3	1.86	0.57
1:f:281:PHE:H	1:h:85:THR:HG21	1.69	0.57
1:f:535:ASN:ND2	1:h:424:GLU:H	2.01	0.57
1:i:257:THR:HG22	1:j:319:MET:HE2	1.86	0.57
1:k:346:LYS:HG2	1:k:514:GLN:HB3	1.86	0.57
1:l:346:LYS:HG2	1:l:514:GLN:HB3	1.86	0.57
1:n:307:GLU:HA	1:n:311:ASN:ND2	2.19	0.57
1:s:307:GLU:HA	1:s:311:ASN:ND2	2.20	0.57
1:t:85:THR:HG22	1:v:279:GLY:O	2.05	0.57
1:t:281:PHE:H	1:u:85:THR:HG21	1.69	0.57
1:t:307:GLU:HA	1:t:311:ASN:ND2	2.19	0.57
1:u:194:THR:HG21	1:u:216:ALA:N	2.15	0.57
1:y:366:LYS:HE2	1:y:368:GLN:HE21	1.69	0.57
1:4:160:ASP:OD1	1:4:164:ARG:HB3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:281:PHE:H	1:7:85:THR:HG21	1.70	0.57
1:A:279:GLY:O	1:G:85:THR:HG22	2.05	0.57
1:B:279:GLY:O	1:J:85:THR:HG22	2.04	0.57
1:D:85:THR:HG22	1:P:279:GLY:O	2.04	0.57
1:D:346:LYS:HG2	1:D:514:GLN:HB3	1.86	0.57
1:G:281:PHE:H	1:I:85:THR:HG21	1.69	0.57
1:G:307:GLU:HA	1:G:311:ASN:ND2	2.19	0.57
1:K:160:ASP:OD1	1:K:164:ARG:HB3	2.03	0.57
1:N:257:THR:HG22	1:P:319:MET:HE2	1.86	0.57
1:N:282:CYS:HB3	1:P:317:ASP:HB2	1.85	0.57
1:R:281:PHE:H	1:S:85:THR:HG21	1.69	0.57
1:a:307:GLU:HA	1:a:311:ASN:ND2	2.19	0.57
1:c:366:LYS:HE2	1:c:368:GLN:HE21	1.69	0.57
1:e:366:LYS:HE2	1:e:368:GLN:HE21	1.69	0.57
1:f:85:THR:HG22	1:g:279:GLY:O	2.05	0.57
1:f:279:GLY:O	1:h:85:THR:HG22	2.05	0.57
1:g:366:LYS:HE2	1:g:368:GLN:HE21	1.69	0.57
1:o:307:GLU:HA	1:o:311:ASN:ND2	2.20	0.57
1:p:127:HIS:CD2	1:p:237:THR:HG22	2.38	0.57
1:p:346:LYS:HG2	1:p:514:GLN:HB3	1.86	0.57
1:q:401:CYS:HA	1:q:405:MET:SD	2.44	0.57
1:u:346:LYS:HG2	1:u:514:GLN:HB3	1.86	0.57
1:8:106:PHE:HD1	1:8:110:ASP:HB3	1.68	0.57
1:B:85:THR:HG22	1:L:279:GLY:O	2.05	0.57
1:D:281:PHE:H	1:N:85:THR:HG21	1.69	0.57
1:F:319:MET:HE2	1:Q:257:THR:HG22	1.87	0.57
1:F:366:LYS:HE2	1:F:368:GLN:HE21	1.69	0.57
1:X:307:GLU:HA	1:X:311:ASN:ND2	2.20	0.57
1:g:307:GLU:HA	1:g:311:ASN:ND2	2.19	0.57
1:k:307:GLU:HA	1:k:311:ASN:ND2	2.19	0.57
1:p:150:ASP:OD1	1:6:149:ASN:ND2	2.29	0.57
1:x:257:THR:HG22	1:y:319:MET:HE2	1.87	0.57
1:x:366:LYS:HE2	1:x:368:GLN:HE21	1.69	0.57
1:z:307:GLU:HA	1:z:311:ASN:ND2	2.19	0.57
1:3:85:THR:HG21	1:4:281:PHE:H	1.69	0.57
1:4:306:LEU:O	1:4:311:ASN:ND2	2.33	0.57
1:C:366:LYS:HE2	1:C:368:GLN:HE21	1.69	0.57
1:G:535:ASN:ND2	1:I:424:GLU:H	2.01	0.57
1:H:279:GLY:O	1:W:85:THR:HG22	2.04	0.57
1:I:194:THR:HG21	1:I:216:ALA:N	2.15	0.57
1:K:85:THR:HG22	1:8:279:GLY:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:307:GLU:HA	1:L:311:ASN:ND2	2.19	0.57
1:P:307:GLU:HA	1:P:311:ASN:ND2	2.19	0.57
1:R:85:THR:HG21	1:U:281:PHE:H	1.69	0.57
1:R:279:GLY:O	1:S:85:THR:HG22	2.05	0.57
1:R:401:CYS:HA	1:R:405:MET:SD	2.44	0.57
1:S:346:LYS:HG2	1:S:514:GLN:HB3	1.86	0.57
1:U:366:LYS:HE2	1:U:368:GLN:HE21	1.69	0.57
1:X:319:MET:HE2	1:e:257:THR:HG22	1.87	0.57
1:c:257:THR:HG22	1:o:319:MET:HE2	1.87	0.57
1:g:85:THR:HG22	1:h:279:GLY:O	2.04	0.57
1:j:307:GLU:HA	1:j:311:ASN:ND2	2.19	0.57
1:q:85:THR:HG21	1:s:281:PHE:H	1.69	0.57
1:r:346:LYS:HG2	1:r:514:GLN:HB3	1.86	0.57
1:1:257:THR:HG22	1:2:319:MET:HE2	1.87	0.57
1:1:282:CYS:HB3	1:2:317:ASP:HB2	1.85	0.57
1:5:279:GLY:O	1:6:85:THR:HG22	2.04	0.57
1:B:366:LYS:HE2	1:B:368:GLN:HE21	1.69	0.56
1:B:535:ASN:ND2	1:J:424:GLU:H	2.00	0.56
1:C:319:MET:HE2	1:M:257:THR:HG22	1.87	0.56
1:D:307:GLU:HA	1:D:311:ASN:ND2	2.19	0.56
1:K:257:THR:HG22	1:a:319:MET:HE2	1.87	0.56
1:K:424:GLU:H	1:8:535:ASN:ND2	2.01	0.56
1:O:85:THR:HG22	1:n:279:GLY:O	2.05	0.56
1:Q:366:LYS:HE2	1:Q:368:GLN:HE21	1.69	0.56
1:Z:106:PHE:HD1	1:Z:110:ASP:HB3	1.68	0.56
1:c:307:GLU:HA	1:c:311:ASN:ND2	2.20	0.56
1:i:85:THR:HG21	1:k:281:PHE:H	1.69	0.56
1:q:279:GLY:O	1:r:85:THR:HG22	2.05	0.56
1:q:281:PHE:H	1:r:85:THR:HG21	1.69	0.56
1:t:535:ASN:ND2	1:u:424:GLU:H	2.01	0.56
1:A:535:ASN:ND2	1:G:424:GLU:H	2.01	0.56
1:C:306:LEU:O	1:C:311:ASN:ND2	2.33	0.56
1:D:85:THR:HG21	1:P:281:PHE:H	1.70	0.56
1:G:194:THR:HG21	1:G:216:ALA:N	2.15	0.56
1:G:257:THR:HG22	1:I:319:MET:HE2	1.87	0.56
1:J:307:GLU:HA	1:J:311:ASN:ND2	2.20	0.56
1:K:306:LEU:O	1:K:311:ASN:ND2	2.33	0.56
1:P:346:LYS:HG2	1:P:514:GLN:HB3	1.86	0.56
1:Z:279:GLY:O	1:4:85:THR:HG22	2.04	0.56
1:Z:535:ASN:ND2	1:4:424:GLU:H	2.01	0.56
1:a:257:THR:HG22	1:8:319:MET:HE2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:346:LYS:HG2	1:b:514:GLN:HB3	1.86	0.56
1:c:279:GLY:O	1:o:85:THR:HG22	2.05	0.56
1:d:279:GLY:O	1:l:85:THR:HG22	2.05	0.56
1:d:281:PHE:H	1:l:85:THR:HG21	1.70	0.56
1:f:346:LYS:HG2	1:f:514:GLN:HB3	1.86	0.56
1:g:319:MET:HE2	1:h:257:THR:HG22	1.87	0.56
1:j:346:LYS:HG2	1:j:514:GLN:HB3	1.86	0.56
1:l:307:GLU:HA	1:l:311:ASN:ND2	2.20	0.56
1:s:366:LYS:HE2	1:s:368:GLN:HE21	1.69	0.56
1:t:257:THR:HG22	1:u:319:MET:HE2	1.87	0.56
1:3:319:MET:HE2	1:4:257:THR:HG22	1.87	0.56
1:5:307:GLU:HA	1:5:311:ASN:ND2	2.19	0.56
1:A:257:THR:HG22	1:G:319:MET:HE2	1.87	0.56
1:C:85:THR:HG22	1:M:279:GLY:O	2.04	0.56
1:C:385:SER:OG	1:b:295:TYR:O	2.19	0.56
1:E:366:LYS:HE2	1:E:368:GLN:HE21	1.69	0.56
1:K:346:LYS:HG2	1:K:514:GLN:HB3	1.86	0.56
1:O:85:THR:HG21	1:n:281:PHE:H	1.70	0.56
1:O:307:GLU:HA	1:O:311:ASN:ND2	2.20	0.56
1:U:106:PHE:HD1	1:U:110:ASP:HB3	1.68	0.56
1:V:150:ASP:OD1	1:W:149:ASN:ND2	2.29	0.56
1:X:85:THR:HG22	1:e:279:GLY:O	2.05	0.56
1:Y:307:GLU:HA	1:Y:311:ASN:ND2	2.19	0.56
1:Z:319:MET:HE2	1:3:257:THR:HG22	1.87	0.56
1:e:307:GLU:HA	1:e:311:ASN:ND2	2.20	0.56
1:g:306:LEU:O	1:g:311:ASN:ND2	2.33	0.56
1:j:281:PHE:H	1:k:85:THR:HG21	1.70	0.56
1:q:319:MET:HE2	1:s:257:THR:HG22	1.87	0.56
1:s:106:PHE:HD1	1:s:110:ASP:HB3	1.68	0.56
1:t:194:THR:HG21	1:t:216:ALA:N	2.15	0.56
1:t:346:LYS:HG2	1:t:514:GLN:HB3	1.86	0.56
1:v:307:GLU:HA	1:v:311:ASN:ND2	2.19	0.56
1:w:366:LYS:HE2	1:w:368:GLN:HE21	1.69	0.56
1:1:366:LYS:HE2	1:1:368:GLN:HE21	1.68	0.56
1:2:307:GLU:HA	1:2:311:ASN:ND2	2.19	0.56
1:4:346:LYS:HG2	1:4:514:GLN:HB3	1.86	0.56
1:7:307:GLU:HA	1:7:311:ASN:ND2	2.19	0.56
1:A:307:GLU:HA	1:A:311:ASN:ND2	2.19	0.56
1:E:85:THR:HG22	1:F:279:GLY:O	2.05	0.56
1:G:346:LYS:HG2	1:G:514:GLN:HB3	1.86	0.56
1:K:85:THR:HG21	1:8:281:PHE:H	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:281:PHE:H	1:P:85:THR:HG21	1.70	0.56
1:R:319:MET:HE2	1:U:257:THR:HG22	1.87	0.56
1:f:257:THR:HG22	1:h:319:MET:HE2	1.87	0.56
1:f:295:TYR:O	1:g:385:SER:OG	2.19	0.56
1:t:85:THR:HG21	1:v:281:PHE:H	1.69	0.56
1:t:319:MET:HE2	1:v:257:THR:HG22	1.87	0.56
1:t:424:GLU:H	1:v:535:ASN:ND2	2.01	0.56
1:v:346:LYS:HG2	1:v:514:GLN:HB3	1.86	0.56
1:1:279:GLY:O	1:2:85:THR:HG22	2.05	0.56
1:G:366:LYS:HE2	1:G:368:GLN:HE21	1.69	0.56
1:K:319:MET:HE2	1:8:257:THR:HG22	1.87	0.56
1:M:319:MET:HE2	1:b:257:THR:HG22	1.87	0.56
1:Q:307:GLU:HA	1:Q:311:ASN:ND2	2.19	0.56
1:R:85:THR:HG22	1:U:279:GLY:O	2.05	0.56
1:T:257:THR:HG22	1:d:319:MET:HE2	1.87	0.56
1:W:257:THR:HG22	1:Y:319:MET:HE2	1.87	0.56
1:m:257:THR:HG22	1:n:319:MET:HE2	1.87	0.56
1:o:257:THR:HG22	1:p:319:MET:HE2	1.87	0.56
1:r:307:GLU:HA	1:r:311:ASN:ND2	2.19	0.56
1:w:281:PHE:H	1:x:85:THR:HG21	1.69	0.56
1:z:281:PHE:H	1:1:85:THR:HG21	1.69	0.56
1:A:281:PHE:H	1:G:85:THR:HG21	1.69	0.56
1:J:279:GLY:O	1:L:85:THR:HG22	2.05	0.56
1:S:307:GLU:HA	1:S:311:ASN:ND2	2.19	0.56
1:V:319:MET:HE2	1:X:257:THR:HG22	1.87	0.56
1:Z:257:THR:HG22	1:4:319:MET:HE2	1.87	0.56
1:Z:281:PHE:H	1:4:85:THR:HG21	1.69	0.56
1:f:319:MET:HE2	1:g:257:THR:HG22	1.87	0.56
1:h:149:ASN:ND2	1:i:150:ASP:OD1	2.29	0.56
1:i:281:PHE:H	1:j:85:THR:HG21	1.70	0.56
1:w:85:THR:HG22	1:y:279:GLY:O	2.05	0.56
1:6:257:THR:HG22	1:7:319:MET:HE2	1.87	0.56
1:A:346:LYS:HG2	1:A:514:GLN:HB3	1.86	0.56
1:B:307:GLU:HA	1:B:311:ASN:ND2	2.19	0.56
1:C:257:THR:HG22	1:b:319:MET:HE2	1.87	0.56
1:b:307:GLU:HA	1:b:311:ASN:ND2	2.20	0.56
1:f:307:GLU:HA	1:f:311:ASN:ND2	2.20	0.56
1:h:307:GLU:HA	1:h:311:ASN:ND2	2.19	0.56
1:j:257:THR:HG22	1:k:319:MET:HE2	1.87	0.56
1:q:85:THR:HG22	1:s:279:GLY:O	2.05	0.56
1:t:366:LYS:HE2	1:t:368:GLN:HE21	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:307:GLU:HA	1:x:311:ASN:ND2	2.19	0.56
1:z:85:THR:HG22	1:2:279:GLY:O	2.05	0.56
1:E:281:PHE:H	1:Q:85:THR:HG21	1.69	0.56
1:H:319:MET:HE2	1:Y:257:THR:HG22	1.86	0.56
1:Z:150:ASP:OD1	1:a:149:ASN:ND2	2.29	0.56
1:Z:307:GLU:HA	1:Z:311:ASN:ND2	2.20	0.56
1:a:279:GLY:O	1:8:85:THR:HG22	2.05	0.56
1:b:366:LYS:HE2	1:b:368:GLN:HE21	1.69	0.56
1:5:319:MET:HE2	1:7:257:THR:HG22	1.87	0.56
1:A:319:MET:HE2	1:I:257:THR:HG22	1.87	0.56
1:D:257:THR:HG22	1:N:319:MET:HE2	1.87	0.56
1:D:319:MET:HE2	1:P:257:THR:HG22	1.87	0.56
1:M:307:GLU:HA	1:M:311:ASN:ND2	2.20	0.56
1:Z:85:THR:HG22	1:3:279:GLY:O	2.05	0.56
1:Z:424:GLU:H	1:3:535:ASN:ND2	2.01	0.56
1:c:319:MET:HE2	1:p:257:THR:HG22	1.87	0.56
1:f:366:LYS:HE2	1:f:368:GLN:HE21	1.69	0.56
1:p:307:GLU:HA	1:p:311:ASN:ND2	2.19	0.56
1:q:257:THR:HG22	1:r:319:MET:HE2	1.87	0.56
1:u:257:THR:HG22	1:v:319:MET:HE2	1.87	0.56
1:1:307:GLU:HA	1:1:311:ASN:ND2	2.19	0.56
1:1:535:ASN:ND2	1:2:424:GLU:H	2.01	0.56
1:8:307:GLU:HA	1:8:311:ASN:ND2	2.20	0.56
1:B:319:MET:HE2	1:L:257:THR:HG22	1.87	0.56
1:F:307:GLU:HA	1:F:311:ASN:ND2	2.19	0.56
1:M:149:ASN:ND2	1:N:150:ASP:OD1	2.29	0.56
1:V:257:THR:HG22	1:e:319:MET:HE2	1.87	0.56
1:a:535:ASN:ND2	1:8:424:GLU:H	2.01	0.56
1:y:307:GLU:HA	1:y:311:ASN:ND2	2.19	0.56
1:3:149:ASN:ND2	1:8:150:ASP:OD1	2.29	0.56
1:J:257:THR:HG22	1:L:319:MET:HE2	1.87	0.55
1:O:279:GLY:O	1:m:85:THR:HG22	2.04	0.55
1:R:257:THR:HG22	1:S:319:MET:HE2	1.87	0.55
1:V:307:GLU:HA	1:V:311:ASN:ND2	2.19	0.55
1:i:319:MET:HE2	1:k:257:THR:HG22	1.87	0.55
1:w:257:THR:HG22	1:x:319:MET:HE2	1.87	0.55
1:x:281:PHE:H	1:y:85:THR:HG21	1.69	0.55
1:E:257:THR:HG22	1:Q:319:MET:HE2	1.87	0.55
1:T:85:THR:HG22	1:l:279:GLY:O	2.05	0.55
1:T:319:MET:HE2	1:l:257:THR:HG22	1.87	0.55
1:w:319:MET:HE2	1:y:257:THR:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:319:MET:HE2	1:2:257:THR:HG22	1.87	0.55
1:B:85:THR:HG21	1:L:281:PHE:H	1.70	0.55
1:B:173:GLN:NE2	1:L:261:ASN:O	2.40	0.55
1:E:319:MET:HE2	1:F:257:THR:HG22	1.87	0.55
1:E:535:ASN:ND2	1:Q:424:GLU:H	2.01	0.55
1:F:85:THR:HG21	1:Q:281:PHE:H	1.69	0.55
1:F:424:GLU:H	1:Q:535:ASN:ND2	2.01	0.55
1:O:257:THR:HG22	1:m:319:MET:HE2	1.87	0.55
1:W:535:ASN:ND2	1:Y:424:GLU:H	2.01	0.55
1:X:85:THR:HG21	1:e:281:PHE:H	1.70	0.55
1:c:281:PHE:H	1:o:85:THR:HG21	1.70	0.55
1:3:424:GLU:H	1:4:535:ASN:ND2	2.01	0.55
1:I:161:GLN:HE22	1:I:445:GLY:H	1.55	0.55
1:N:261:ASN:O	1:P:173:GLN:NE2	2.39	0.55
1:R:295:TYR:O	1:U:385:SER:OG	2.19	0.55
1:c:295:TYR:O	1:p:385:SER:OG	2.19	0.55
1:i:261:ASN:O	1:j:173:GLN:NE2	2.39	0.55
1:m:161:GLN:HE22	1:m:445:GLY:H	1.55	0.55
1:q:424:GLU:H	1:s:535:ASN:ND2	2.01	0.55
1:r:257:THR:HG22	1:s:319:MET:HE2	1.87	0.55
1:u:161:GLN:HE22	1:u:445:GLY:H	1.55	0.55
1:z:257:THR:HG22	1:1:319:MET:HE2	1.87	0.55
1:6:535:ASN:ND2	1:7:424:GLU:H	2.01	0.55
1:7:161:GLN:HE22	1:7:445:GLY:H	1.55	0.55
1:B:261:ASN:O	1:J:173:GLN:NE2	2.40	0.55
1:K:535:ASN:ND2	1:a:424:GLU:H	2.01	0.55
1:R:424:GLU:H	1:U:535:ASN:ND2	2.02	0.55
1:T:161:GLN:HE22	1:T:445:GLY:H	1.55	0.55
1:Y:161:GLN:HE22	1:Y:445:GLY:H	1.55	0.55
1:c:385:SER:OG	1:o:295:TYR:O	2.19	0.55
1:q:295:TYR:O	1:s:385:SER:OG	2.19	0.55
1:r:150:ASP:OD1	1:x:149:ASN:ND2	2.29	0.55
1:w:535:ASN:ND2	1:x:424:GLU:H	2.01	0.55
1:H:173:GLN:NE2	1:Y:261:ASN:O	2.39	0.55
1:H:257:THR:HG22	1:W:319:MET:HE2	1.87	0.55
1:O:535:ASN:ND2	1:m:424:GLU:H	2.01	0.55
1:Q:161:GLN:HE22	1:Q:445:GLY:H	1.55	0.55
1:x:535:ASN:ND2	1:y:424:GLU:H	2.01	0.55
1:5:173:GLN:NE2	1:7:261:ASN:O	2.39	0.55
1:5:257:THR:HG22	1:6:319:MET:HE2	1.87	0.55
1:M:173:GLN:NE2	1:b:261:ASN:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:290:PRO:HB2	1:O:379:PRO:HD3	1.89	0.55
1:S:257:THR:HG22	1:U:319:MET:HE2	1.87	0.55
1:T:424:GLU:H	1:l:535:ASN:ND2	2.01	0.55
1:f:261:ASN:O	1:h:173:GLN:NE2	2.40	0.55
1:l:290:PRO:HB2	1:l:379:PRO:HD3	1.89	0.55
1:x:161:GLN:HE22	1:x:445:GLY:H	1.55	0.55
1:z:161:GLN:HE22	1:z:445:GLY:H	1.55	0.55
1:J:161:GLN:HE22	1:J:445:GLY:H	1.55	0.55
1:L:161:GLN:HE22	1:L:445:GLY:H	1.55	0.55
1:O:319:MET:HE2	1:n:257:THR:HG22	1.87	0.55
1:X:295:TYR:O	1:e:385:SER:OG	2.19	0.55
1:c:173:GLN:NE2	1:p:261:ASN:O	2.40	0.55
1:w:385:SER:OG	1:x:295:TYR:O	2.19	0.55
1:z:491:SER:HB3	1:l:213:ARG:HD2	1.89	0.55
1:K:213:ARG:HD2	1:8:491:SER:HB3	1.89	0.55
1:O:149:ASN:ND2	1:P:150:ASP:OD1	2.29	0.55
1:O:213:ARG:HD2	1:n:491:SER:HB3	1.89	0.55
1:Q:149:ASN:ND2	1:S:150:ASP:OD1	2.29	0.55
1:V:261:ASN:O	1:e:173:GLN:NE2	2.40	0.55
1:V:385:SER:OG	1:e:295:TYR:O	2.19	0.55
1:X:161:GLN:HE22	1:X:445:GLY:H	1.55	0.55
1:d:257:THR:HG22	1:l:319:MET:HE2	1.87	0.55
1:d:491:SER:HB3	1:l:213:ARG:HD2	1.89	0.55
1:v:290:PRO:HB2	1:v:379:PRO:HD3	1.89	0.55
1:z:261:ASN:O	1:l:173:GLN:NE2	2.40	0.55
1:6:491:SER:HB3	1:7:213:ARG:HD2	1.89	0.55
1:C:161:GLN:HE22	1:C:445:GLY:H	1.55	0.55
1:H:385:SER:OG	1:W:295:TYR:O	2.19	0.55
1:J:290:PRO:HB2	1:J:379:PRO:HD3	1.89	0.55
1:P:290:PRO:HB2	1:P:379:PRO:HD3	1.89	0.55
1:S:161:GLN:HE22	1:S:445:GLY:H	1.55	0.55
1:T:290:PRO:HB2	1:T:379:PRO:HD3	1.89	0.55
1:W:261:ASN:O	1:Y:173:GLN:NE2	2.40	0.55
1:c:290:PRO:HB2	1:c:379:PRO:HD3	1.89	0.55
1:e:290:PRO:HB2	1:e:379:PRO:HD3	1.89	0.55
1:g:161:GLN:HE22	1:g:445:GLY:H	1.55	0.55
1:j:150:ASP:OD1	1:l:149:ASN:ND2	2.29	0.55
1:j:290:PRO:HB2	1:j:379:PRO:HD3	1.89	0.55
1:n:290:PRO:HB2	1:n:379:PRO:HD3	1.89	0.55
1:o:161:GLN:HE22	1:o:445:GLY:H	1.55	0.55
1:q:161:GLN:HE22	1:q:445:GLY:H	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:150:ASP:OD1	1:5:149:ASN:ND2	2.30	0.55
1:2:161:GLN:HE22	1:2:445:GLY:H	1.55	0.55
1:2:290:PRO:HB2	1:2:379:PRO:HD3	1.89	0.55
1:5:385:SER:OG	1:6:295:TYR:O	2.18	0.55
1:A:290:PRO:HB2	1:A:379:PRO:HD3	1.89	0.54
1:B:213:ARG:HD2	1:L:491:SER:HB3	1.90	0.54
1:C:295:TYR:O	1:M:385:SER:OG	2.19	0.54
1:F:213:ARG:HD2	1:Q:491:SER:HB3	1.90	0.54
1:H:149:ASN:ND2	1:I:150:ASP:OD1	2.29	0.54
1:H:213:ARG:HD2	1:Y:491:SER:HB3	1.89	0.54
1:H:395:PRO:CG	1:Y:387:VAL:HG11	2.37	0.54
1:L:290:PRO:HB2	1:L:379:PRO:HD3	1.89	0.54
1:O:173:GLN:NE2	1:n:261:ASN:O	2.40	0.54
1:R:161:GLN:HE22	1:R:445:GLY:H	1.55	0.54
1:R:386:THR:HG22	1:R:388:SER:N	2.23	0.54
1:S:535:ASN:ND2	1:U:424:GLU:H	2.01	0.54
1:d:290:PRO:HB2	1:d:379:PRO:HD3	1.89	0.54
1:q:386:THR:HG22	1:q:388:SER:N	2.23	0.54
1:q:491:SER:HB3	1:r:213:ARG:HD2	1.89	0.54
1:r:161:GLN:HE22	1:r:445:GLY:H	1.55	0.54
1:z:213:ARG:HD2	1:2:491:SER:HB3	1.89	0.54
1:z:290:PRO:HB2	1:z:379:PRO:HD3	1.89	0.54
1:8:259:ARG:HH12	1:8:535:ASN:ND2	2.06	0.54
1:E:385:SER:OG	1:Q:295:TYR:O	2.19	0.54
1:G:290:PRO:HB2	1:G:379:PRO:HD3	1.89	0.54
1:K:261:ASN:O	1:a:173:GLN:NE2	2.40	0.54
1:O:491:SER:HB3	1:m:213:ARG:HD2	1.89	0.54
1:R:127:HIS:HD2	1:R:237:THR:HG22	1.73	0.54
1:U:386:THR:HG22	1:U:388:SER:N	2.23	0.54
1:W:491:SER:HB3	1:Y:213:ARG:HD2	1.89	0.54
1:X:290:PRO:HB2	1:X:379:PRO:HD3	1.89	0.54
1:Z:259:ARG:HH12	1:Z:535:ASN:ND2	2.06	0.54
1:Z:491:SER:HB3	1:4:213:ARG:HD2	1.90	0.54
1:a:290:PRO:HB2	1:a:379:PRO:HD3	1.89	0.54
1:d:161:GLN:HE22	1:d:445:GLY:H	1.55	0.54
1:d:261:ASN:O	1:l:173:GLN:NE2	2.40	0.54
1:e:161:GLN:HE22	1:e:445:GLY:H	1.55	0.54
1:i:491:SER:HB3	1:j:213:ARG:HD2	1.89	0.54
1:j:386:THR:HG22	1:j:388:SER:N	2.23	0.54
1:q:385:SER:OG	1:r:295:TYR:O	2.19	0.54
1:y:161:GLN:HE22	1:y:445:GLY:H	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:261:ASN:O	1:2:173:GLN:NE2	2.40	0.54
1:3:290:PRO:HB2	1:3:379:PRO:HD3	1.89	0.54
1:6:261:ASN:O	1:7:173:GLN:NE2	2.40	0.54
1:A:173:GLN:NE2	1:I:261:ASN:O	2.40	0.54
1:A:261:ASN:O	1:G:173:GLN:NE2	2.40	0.54
1:B:127:HIS:HD2	1:B:237:THR:HG22	1.73	0.54
1:C:127:HIS:HD2	1:C:237:THR:HG22	1.73	0.54
1:I:259:ARG:HH12	1:I:535:ASN:ND2	2.06	0.54
1:J:491:SER:HB3	1:L:213:ARG:HD2	1.89	0.54
1:N:387:VAL:HG11	1:P:395:PRO:CG	2.37	0.54
1:N:491:SER:HB3	1:P:213:ARG:HD2	1.89	0.54
1:P:386:THR:HG22	1:P:388:SER:N	2.23	0.54
1:Y:259:ARG:HH12	1:Y:535:ASN:ND2	2.06	0.54
1:Z:386:THR:HG22	1:Z:388:SER:N	2.23	0.54
1:c:259:ARG:HH12	1:c:535:ASN:ND2	2.06	0.54
1:g:127:HIS:HD2	1:g:237:THR:HG22	1.73	0.54
1:i:387:VAL:HG11	1:j:395:PRO:CG	2.37	0.54
1:m:290:PRO:HB2	1:m:379:PRO:HD3	1.89	0.54
1:n:161:GLN:HE22	1:n:445:GLY:H	1.55	0.54
1:o:290:PRO:HB2	1:o:379:PRO:HD3	1.89	0.54
1:q:127:HIS:HD2	1:q:237:THR:HG22	1.73	0.54
1:u:259:ARG:HH12	1:u:535:ASN:ND2	2.06	0.54
1:v:161:GLN:HE22	1:v:445:GLY:H	1.55	0.54
1:x:491:SER:HB3	1:y:213:ARG:HD2	1.90	0.54
1:z:115:VAL:O	1:z:249:ASN:ND2	2.39	0.54
1:3:173:GLN:NE2	1:4:261:ASN:O	2.40	0.54
1:A:259:ARG:HH12	1:A:535:ASN:ND2	2.06	0.54
1:D:173:GLN:NE2	1:P:261:ASN:O	2.40	0.54
1:F:161:GLN:HE22	1:F:445:GLY:H	1.55	0.54
1:H:261:ASN:O	1:W:173:GLN:NE2	2.40	0.54
1:N:535:ASN:ND2	1:P:424:GLU:H	2.00	0.54
1:R:491:SER:HB3	1:S:213:ARG:HD2	1.89	0.54
1:T:213:ARG:HD2	1:l:491:SER:HB3	1.90	0.54
1:V:173:GLN:NE2	1:X:261:ASN:O	2.40	0.54
1:V:491:SER:HB3	1:e:213:ARG:HD2	1.90	0.54
1:W:161:GLN:HE22	1:W:445:GLY:H	1.55	0.54
1:X:259:ARG:HH12	1:X:535:ASN:ND2	2.06	0.54
1:Z:213:ARG:HD2	1:3:491:SER:HB3	1.89	0.54
1:Z:290:PRO:HB2	1:Z:379:PRO:HD3	1.89	0.54
1:b:127:HIS:HD2	1:b:237:THR:HG22	1.73	0.54
1:c:161:GLN:HE22	1:c:445:GLY:H	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:491:SER:HB3	1:o:213:ARG:HD2	1.89	0.54
1:e:259:ARG:HH12	1:e:535:ASN:ND2	2.06	0.54
1:f:127:HIS:HD2	1:f:237:THR:HG22	1.73	0.54
1:f:290:PRO:HB2	1:f:379:PRO:HD3	1.89	0.54
1:j:261:ASN:O	1:k:173:GLN:NE2	2.40	0.54
1:l:127:HIS:HD2	1:l:237:THR:HG22	1.73	0.54
1:m:491:SER:HB3	1:n:213:ARG:HD2	1.89	0.54
1:o:127:HIS:HD2	1:o:237:THR:HG22	1.73	0.54
1:o:259:ARG:HH12	1:o:535:ASN:ND2	2.06	0.54
1:s:386:THR:HG22	1:s:388:SER:N	2.23	0.54
1:t:173:GLN:NE2	1:v:261:ASN:O	2.40	0.54
1:t:261:ASN:O	1:u:173:GLN:NE2	2.40	0.54
1:t:290:PRO:HB2	1:t:379:PRO:HD3	1.89	0.54
1:w:173:GLN:NE2	1:y:261:ASN:O	2.40	0.54
1:1:127:HIS:HD2	1:1:237:THR:HG22	1.73	0.54
1:5:261:ASN:O	1:6:173:GLN:NE2	2.40	0.54
1:8:260:GLN:H	1:8:260:GLN:CD	2.16	0.54
1:8:386:THR:HG22	1:8:388:SER:N	2.23	0.54
1:A:161:GLN:HE22	1:A:445:GLY:H	1.55	0.54
1:B:164:ARG:HG3	1:L:485:HIS:CG	2.43	0.54
1:C:259:ARG:HH12	1:C:535:ASN:ND2	2.06	0.54
1:C:386:THR:HG22	1:C:388:SER:N	2.23	0.54
1:D:260:GLN:CD	1:D:260:GLN:H	2.16	0.54
1:E:173:GLN:NE2	1:F:261:ASN:O	2.40	0.54
1:G:261:ASN:O	1:I:173:GLN:NE2	2.40	0.54
1:I:290:PRO:HB2	1:I:379:PRO:HD3	1.89	0.54
1:K:161:GLN:HE22	1:K:445:GLY:H	1.55	0.54
1:K:259:ARG:HH12	1:K:535:ASN:ND2	2.06	0.54
1:O:127:HIS:HD2	1:O:237:THR:HG22	1.73	0.54
1:R:535:ASN:ND2	1:S:424:GLU:H	2.01	0.54
1:S:261:ASN:O	1:U:173:GLN:NE2	2.40	0.54
1:V:127:HIS:HD2	1:V:237:THR:HG22	1.73	0.54
1:X:213:ARG:HD2	1:e:491:SER:HB3	1.89	0.54
1:Z:260:GLN:H	1:Z:260:GLN:CD	2.16	0.54
1:a:161:GLN:HE22	1:a:445:GLY:H	1.55	0.54
1:a:491:SER:HB3	1:8:213:ARG:HD2	1.89	0.54
1:b:290:PRO:HB2	1:b:379:PRO:HD3	1.89	0.54
1:c:213:ARG:HD2	1:p:491:SER:HB3	1.90	0.54
1:c:260:GLN:H	1:c:260:GLN:CD	2.16	0.54
1:g:295:TYR:O	1:h:385:SER:OG	2.19	0.54
1:g:386:THR:HG22	1:g:388:SER:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:290:PRO:HB2	1:h:379:PRO:HD3	1.89	0.54
1:i:161:GLN:HE22	1:i:445:GLY:H	1.55	0.54
1:k:260:GLN:H	1:k:260:GLN:CD	2.16	0.54
1:k:386:THR:HG22	1:k:388:SER:N	2.23	0.54
1:o:261:ASN:O	1:p:173:GLN:NE2	2.40	0.54
1:r:261:ASN:O	1:s:173:GLN:NE2	2.40	0.54
1:u:260:GLN:H	1:u:260:GLN:CD	2.16	0.54
1:u:261:ASN:O	1:v:173:GLN:NE2	2.40	0.54
1:v:259:ARG:HH12	1:v:535:ASN:ND2	2.06	0.54
1:w:127:HIS:HD2	1:w:237:THR:HG22	1.73	0.54
1:x:261:ASN:O	1:y:173:GLN:NE2	2.40	0.54
1:4:161:GLN:HE22	1:4:445:GLY:H	1.55	0.54
1:4:259:ARG:HH12	1:4:535:ASN:ND2	2.06	0.54
1:6:161:GLN:HE22	1:6:445:GLY:H	1.55	0.54
1:7:259:ARG:HH12	1:7:535:ASN:ND2	2.06	0.54
1:8:290:PRO:HB2	1:8:379:PRO:HD3	1.89	0.54
1:C:213:ARG:HD2	1:M:491:SER:HB3	1.89	0.54
1:E:127:HIS:HD2	1:E:237:THR:HG22	1.73	0.54
1:F:173:GLN:NE2	1:Q:261:ASN:O	2.40	0.54
1:I:260:GLN:CD	1:I:260:GLN:H	2.16	0.54
1:M:290:PRO:HB2	1:M:379:PRO:HD3	1.89	0.54
1:N:161:GLN:HE22	1:N:445:GLY:H	1.55	0.54
1:O:260:GLN:CD	1:O:260:GLN:H	2.16	0.54
1:R:385:SER:OG	1:S:295:TYR:O	2.19	0.54
1:T:386:THR:HG22	1:T:388:SER:N	2.22	0.54
1:T:491:SER:HB3	1:d:213:ARG:HD2	1.89	0.54
1:V:161:GLN:HE22	1:V:445:GLY:H	1.55	0.54
1:W:260:GLN:CD	1:W:260:GLN:H	2.16	0.54
1:X:150:ASP:OD1	1:f:149:ASN:ND2	2.29	0.54
1:Y:127:HIS:HD2	1:Y:237:THR:HG22	1.73	0.54
1:e:260:GLN:H	1:e:260:GLN:CD	2.16	0.54
1:f:173:GLN:NE2	1:g:261:ASN:O	2.40	0.54
1:g:150:ASP:OD1	1:k:149:ASN:ND2	2.29	0.54
1:g:259:ARG:HH12	1:g:535:ASN:ND2	2.06	0.54
1:l:106:PHE:O	1:l:414:TYR:OH	2.25	0.54
1:l:161:GLN:HE22	1:l:445:GLY:H	1.55	0.54
1:l:260:GLN:CD	1:l:260:GLN:H	2.16	0.54
1:m:259:ARG:HH12	1:m:535:ASN:ND2	2.06	0.54
1:m:386:THR:HG22	1:m:388:SER:N	2.23	0.54
1:p:127:HIS:HD2	1:p:237:THR:HG22	1.73	0.54
1:p:161:GLN:HE22	1:p:445:GLY:H	1.55	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:290:PRO:HB2	1:q:379:PRO:HD3	1.89	0.54
1:q:535:ASN:ND2	1:r:424:GLU:H	2.01	0.54
1:r:535:ASN:ND2	1:s:424:GLU:H	2.01	0.54
1:u:290:PRO:HB2	1:u:379:PRO:HD3	1.89	0.54
1:w:386:THR:HG22	1:w:388:SER:N	2.23	0.54
1:1:161:GLN:HE22	1:1:445:GLY:H	1.55	0.54
1:6:260:GLN:CD	1:6:260:GLN:H	2.16	0.54
1:7:290:PRO:HB2	1:7:379:PRO:HD3	1.89	0.54
1:8:161:GLN:HE22	1:8:445:GLY:H	1.55	0.54
1:B:161:GLN:HE22	1:B:445:GLY:H	1.55	0.54
1:C:150:ASP:OD1	1:D:149:ASN:ND2	2.29	0.54
1:C:261:ASN:O	1:b:173:GLN:NE2	2.40	0.54
1:C:485:HIS:CG	1:b:164:ARG:HG3	2.43	0.54
1:D:386:THR:HG22	1:D:388:SER:N	2.23	0.54
1:E:386:THR:HG22	1:E:388:SER:N	2.23	0.54
1:O:161:GLN:HE22	1:O:445:GLY:H	1.55	0.54
1:O:386:THR:HG22	1:O:388:SER:N	2.23	0.54
1:R:290:PRO:HB2	1:R:379:PRO:HD3	1.89	0.54
1:T:259:ARG:HH12	1:T:535:ASN:ND2	2.06	0.54
1:V:290:PRO:HB2	1:V:379:PRO:HD3	1.89	0.54
1:V:348:LYS:HB2	1:V:351:GLU:HG2	1.90	0.54
1:X:164:ARG:HG3	1:e:485:HIS:CG	2.43	0.54
1:Z:161:GLN:HE22	1:Z:445:GLY:H	1.55	0.54
1:b:115:VAL:O	1:b:249:ASN:ND2	2.39	0.54
1:c:485:HIS:CG	1:o:164:ARG:HG3	2.43	0.54
1:f:115:VAL:O	1:f:249:ASN:ND2	2.39	0.54
1:f:164:ARG:HG3	1:g:485:HIS:CG	2.43	0.54
1:f:385:SER:OG	1:h:295:TYR:O	2.19	0.54
1:f:491:SER:HB3	1:h:213:ARG:HD2	1.89	0.54
1:j:387:VAL:HG11	1:k:395:PRO:CG	2.38	0.54
1:q:213:ARG:HD2	1:s:491:SER:HB3	1.89	0.54
1:t:112:GLN:HB2	1:5:489:MET:HG2	1.90	0.54
1:x:387:VAL:HG11	1:y:395:PRO:CG	2.38	0.54
1:3:161:GLN:HE22	1:3:445:GLY:H	1.55	0.54
1:3:386:THR:HG22	1:3:388:SER:N	2.23	0.54
1:4:290:PRO:HB2	1:4:379:PRO:HD3	1.89	0.54
1:4:348:LYS:HB2	1:4:351:GLU:HG2	1.90	0.54
1:5:259:ARG:HH12	1:5:535:ASN:ND2	2.06	0.54
1:A:213:ARG:HD2	1:I:491:SER:HB3	1.90	0.54
1:B:406:ILE:HG22	1:J:428:GLN:HG2	1.90	0.54
1:C:260:GLN:H	1:C:260:GLN:CD	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:395:PRO:CG	1:M:387:VAL:HG11	2.38	0.54
1:D:387:VAL:HG11	1:N:395:PRO:CG	2.38	0.54
1:D:395:PRO:CG	1:P:387:VAL:HG11	2.38	0.54
1:F:395:PRO:CG	1:Q:387:VAL:HG11	2.38	0.54
1:H:295:TYR:O	1:Y:385:SER:OG	2.18	0.54
1:J:127:HIS:HD2	1:J:237:THR:HG22	1.73	0.54
1:K:290:PRO:HB2	1:K:379:PRO:HD3	1.89	0.54
1:K:348:LYS:HB2	1:K:351:GLU:HG2	1.90	0.54
1:M:213:ARG:HD2	1:b:491:SER:HB3	1.89	0.54
1:M:295:TYR:O	1:b:385:SER:OG	2.19	0.54
1:O:395:PRO:CG	1:n:387:VAL:HG11	2.38	0.54
1:O:424:GLU:H	1:n:535:ASN:ND2	2.01	0.54
1:R:213:ARG:HD2	1:U:491:SER:HB3	1.89	0.54
1:R:259:ARG:HH12	1:R:535:ASN:ND2	2.06	0.54
1:R:261:ASN:O	1:S:173:GLN:NE2	2.40	0.54
1:S:259:ARG:HH12	1:S:535:ASN:ND2	2.06	0.54
1:W:106:PHE:O	1:W:414:TYR:OH	2.25	0.54
1:Y:290:PRO:HB2	1:Y:379:PRO:HD3	1.89	0.54
1:Z:127:HIS:HD2	1:Z:237:THR:HG22	1.73	0.54
1:a:348:LYS:HB2	1:a:351:GLU:HG2	1.90	0.54
1:a:386:THR:HG22	1:a:388:SER:N	2.23	0.54
1:f:485:HIS:CG	1:h:164:ARG:HG3	2.43	0.54
1:g:213:ARG:HD2	1:h:491:SER:HB3	1.89	0.54
1:i:395:PRO:CG	1:k:387:VAL:HG11	2.38	0.54
1:i:535:ASN:ND2	1:j:424:GLU:H	2.00	0.54
1:p:290:PRO:HB2	1:p:379:PRO:HD3	1.89	0.54
1:p:348:LYS:HB2	1:p:351:GLU:HG2	1.90	0.54
1:r:259:ARG:HH12	1:r:535:ASN:ND2	2.06	0.54
1:t:259:ARG:HH12	1:t:535:ASN:ND2	2.06	0.54
1:v:149:ASN:ND2	1:w:150:ASP:OD1	2.29	0.54
1:z:173:GLN:NE2	1:2:261:ASN:O	2.40	0.54
1:z:395:PRO:CG	1:2:387:VAL:HG11	2.38	0.54
1:1:491:SER:HB3	1:2:213:ARG:HD2	1.89	0.54
1:2:127:HIS:HD2	1:2:237:THR:HG22	1.73	0.54
1:2:260:GLN:H	1:2:260:GLN:CD	2.16	0.54
1:2:386:THR:HG22	1:2:388:SER:N	2.23	0.54
1:3:348:LYS:HB2	1:3:351:GLU:HG2	1.90	0.54
1:4:386:THR:HG22	1:4:388:SER:N	2.23	0.54
1:5:395:PRO:CG	1:7:387:VAL:HG11	2.38	0.54
1:6:106:PHE:O	1:6:414:TYR:OH	2.25	0.54
1:6:290:PRO:HB2	1:6:379:PRO:HD3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:127:HIS:HD2	1:8:237:THR:HG22	1.73	0.54
1:8:348:LYS:HB2	1:8:351:GLU:HG2	1.90	0.54
1:A:127:HIS:HD2	1:A:237:THR:HG22	1.73	0.54
1:A:295:TYR:O	1:I:385:SER:OG	2.19	0.54
1:A:387:VAL:HG11	1:G:395:PRO:CG	2.38	0.54
1:A:424:GLU:H	1:I:535:ASN:ND2	2.01	0.54
1:C:348:LYS:HB2	1:C:351:GLU:HG2	1.90	0.54
1:D:348:LYS:HB2	1:D:351:GLU:HG2	1.90	0.54
1:E:261:ASN:O	1:Q:173:GLN:NE2	2.40	0.54
1:F:127:HIS:HD2	1:F:237:THR:HG22	1.73	0.54
1:F:260:GLN:CD	1:F:260:GLN:H	2.16	0.54
1:H:127:HIS:HD2	1:H:237:THR:HG22	1.73	0.54
1:H:259:ARG:HH12	1:H:535:ASN:ND2	2.06	0.54
1:H:387:VAL:HG11	1:W:395:PRO:CG	2.38	0.54
1:H:535:ASN:ND2	1:W:424:GLU:H	2.01	0.54
1:J:260:GLN:H	1:J:260:GLN:CD	2.16	0.54
1:J:272:ARG:NH2	1:L:301:ALA:O	2.37	0.54
1:J:386:THR:HG22	1:J:388:SER:N	2.23	0.54
1:K:260:GLN:H	1:K:260:GLN:CD	2.16	0.54
1:K:395:PRO:CG	1:8:387:VAL:HG11	2.38	0.54
1:K:485:HIS:CG	1:a:164:ARG:HG3	2.43	0.54
1:M:164:ARG:HG3	1:b:485:HIS:CG	2.43	0.54
1:M:259:ARG:HH12	1:M:535:ASN:ND2	2.06	0.54
1:V:260:GLN:CD	1:V:260:GLN:H	2.16	0.54
1:W:290:PRO:HB2	1:W:379:PRO:HD3	1.89	0.54
1:W:386:THR:HG22	1:W:388:SER:N	2.23	0.54
1:Z:348:LYS:HB2	1:Z:351:GLU:HG2	1.90	0.54
1:a:261:ASN:O	1:8:173:GLN:NE2	2.40	0.54
1:b:259:ARG:HH12	1:b:535:ASN:ND2	2.06	0.54
1:c:164:ARG:HG3	1:p:485:HIS:CG	2.43	0.54
1:d:387:VAL:HG11	1:l:395:PRO:CG	2.38	0.54
1:d:535:ASN:ND2	1:l:424:GLU:H	2.01	0.54
1:g:260:GLN:CD	1:g:260:GLN:H	2.16	0.54
1:g:348:LYS:HB2	1:g:351:GLU:HG2	1.90	0.54
1:g:395:PRO:CG	1:h:387:VAL:HG11	2.38	0.54
1:h:259:ARG:HH12	1:h:535:ASN:ND2	2.06	0.54
1:j:149:ASN:ND2	1:x:150:ASP:OD1	2.29	0.54
1:k:348:LYS:HB2	1:k:351:GLU:HG2	1.90	0.54
1:l:386:THR:HG22	1:l:388:SER:N	2.23	0.54
1:n:386:THR:HG22	1:n:388:SER:N	2.23	0.54
1:p:260:GLN:H	1:p:260:GLN:CD	2.16	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:386:THR:HG22	1:p:388:SER:N	2.23	0.54
1:q:259:ARG:HH12	1:q:535:ASN:ND2	2.06	0.54
1:q:261:ASN:O	1:r:173:GLN:NE2	2.40	0.54
1:t:161:GLN:HE22	1:t:445:GLY:H	1.55	0.54
1:v:127:HIS:HD2	1:v:237:THR:HG22	1.73	0.54
1:w:161:GLN:HE22	1:w:445:GLY:H	1.55	0.54
1:w:348:LYS:HB2	1:w:351:GLU:HG2	1.90	0.54
1:y:127:HIS:HD2	1:y:237:THR:HG22	1.73	0.54
1:4:260:GLN:CD	1:4:260:GLN:H	2.16	0.54
1:5:127:HIS:HD2	1:5:237:THR:HG22	1.73	0.54
1:5:164:ARG:HG3	1:7:485:HIS:CG	2.43	0.54
1:5:213:ARG:HD2	1:7:491:SER:HB3	1.90	0.54
1:7:127:HIS:HD2	1:7:237:THR:HG22	1.73	0.54
1:A:485:HIS:CG	1:G:164:ARG:HG3	2.43	0.54
1:B:259:ARG:HH12	1:B:535:ASN:ND2	2.06	0.54
1:D:261:ASN:O	1:N:173:GLN:NE2	2.40	0.54
1:E:260:GLN:H	1:E:260:GLN:CD	2.16	0.54
1:E:272:ARG:HB3	1:Q:309:LEU:HD21	1.90	0.54
1:E:348:LYS:HB2	1:E:351:GLU:HG2	1.90	0.54
1:G:161:GLN:HE22	1:G:445:GLY:H	1.55	0.54
1:G:259:ARG:HH12	1:G:535:ASN:ND2	2.06	0.54
1:I:386:THR:HG22	1:I:388:SER:N	2.23	0.54
1:J:259:ARG:HH12	1:J:535:ASN:ND2	2.06	0.54
1:J:261:ASN:O	1:L:173:GLN:NE2	2.40	0.54
1:J:387:VAL:HG11	1:L:395:PRO:CG	2.38	0.54
1:K:386:THR:HG22	1:K:388:SER:N	2.23	0.54
1:M:161:GLN:HE22	1:M:445:GLY:H	1.55	0.54
1:P:259:ARG:HH12	1:P:535:ASN:ND2	2.06	0.54
1:R:387:VAL:HG11	1:S:395:PRO:CG	2.38	0.54
1:T:261:ASN:O	1:d:173:GLN:NE2	2.40	0.54
1:U:259:ARG:HH12	1:U:535:ASN:ND2	2.06	0.54
1:V:485:HIS:CG	1:e:164:ARG:HG3	2.43	0.54
1:X:260:GLN:H	1:X:260:GLN:CD	2.16	0.54
1:Z:173:GLN:NE2	1:3:261:ASN:O	2.40	0.54
1:Z:387:VAL:HG11	1:4:395:PRO:CG	2.38	0.54
1:Z:395:PRO:CG	1:3:387:VAL:HG11	2.38	0.54
1:b:149:ASN:ND2	1:o:150:ASP:OD1	2.29	0.54
1:d:386:THR:HG22	1:d:388:SER:N	2.23	0.54
1:f:259:ARG:HH12	1:f:535:ASN:ND2	2.06	0.54
1:h:161:GLN:HE22	1:h:445:GLY:H	1.55	0.54
1:m:261:ASN:O	1:n:173:GLN:NE2	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:260:GLN:CD	1:o:260:GLN:H	2.16	0.54
1:t:395:PRO:CG	1:v:387:VAL:HG11	2.38	0.54
1:t:491:SER:HB3	1:u:213:ARG:HD2	1.90	0.54
1:u:491:SER:HB3	1:v:213:ARG:HD2	1.90	0.54
1:w:260:GLN:CD	1:w:260:GLN:H	2.16	0.54
1:x:259:ARG:HH12	1:x:535:ASN:ND2	2.06	0.54
1:y:260:GLN:H	1:y:260:GLN:CD	2.16	0.54
1:z:301:ALA:O	1:2:272:ARG:NH2	2.37	0.54
1:3:164:ARG:HG3	1:4:485:HIS:CG	2.43	0.54
1:4:127:HIS:HD2	1:4:237:THR:HG22	1.73	0.54
1:5:535:ASN:ND2	1:6:424:GLU:H	2.00	0.54
1:6:127:HIS:HD2	1:6:237:THR:HG22	1.73	0.54
1:6:386:THR:HG22	1:6:388:SER:N	2.23	0.54
1:B:424:GLU:H	1:L:535:ASN:ND2	2.01	0.53
1:G:491:SER:HB3	1:I:213:ARG:HD2	1.90	0.53
1:H:164:ARG:HG3	1:Y:485:HIS:CG	2.43	0.53
1:H:428:GLN:HG2	1:Y:406:ILE:HG22	1.90	0.53
1:I:127:HIS:HD2	1:I:237:THR:HG22	1.73	0.53
1:K:387:VAL:HG11	1:a:395:PRO:CG	2.38	0.53
1:N:127:HIS:HD2	1:N:237:THR:HG22	1.73	0.53
1:Q:259:ARG:HH12	1:Q:535:ASN:ND2	2.06	0.53
1:S:260:GLN:H	1:S:260:GLN:CD	2.16	0.53
1:T:150:ASP:OD1	1:i:149:ASN:ND2	2.29	0.53
1:T:173:GLN:NE2	1:l:261:ASN:O	2.40	0.53
1:V:272:ARG:HB3	1:e:309:LEU:HD21	1.90	0.53
1:V:386:THR:HG22	1:V:388:SER:N	2.23	0.53
1:W:127:HIS:HD2	1:W:237:THR:HG22	1.73	0.53
1:X:395:PRO:CG	1:e:387:VAL:HG11	2.38	0.53
1:a:387:VAL:HG11	1:8:395:PRO:CG	2.38	0.53
1:c:309:LEU:HD21	1:p:272:ARG:HB3	1.90	0.53
1:c:387:VAL:HG11	1:o:395:PRO:CG	2.38	0.53
1:f:424:GLU:H	1:g:535:ASN:ND2	2.01	0.53
1:i:127:HIS:HD2	1:i:237:THR:HG22	1.73	0.53
1:i:173:GLN:NE2	1:k:261:ASN:O	2.40	0.53
1:j:259:ARG:HH12	1:j:535:ASN:ND2	2.06	0.53
1:k:127:HIS:HD2	1:k:237:THR:HG22	1.73	0.53
1:s:259:ARG:HH12	1:s:535:ASN:ND2	2.06	0.53
1:t:386:THR:HG22	1:t:388:SER:N	2.23	0.53
1:u:127:HIS:HD2	1:u:237:THR:HG22	1.73	0.53
1:u:385:SER:OG	1:v:295:TYR:O	2.19	0.53
1:u:386:THR:HG22	1:u:388:SER:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:261:ASN:O	1:x:173:GLN:NE2	2.40	0.53
1:w:272:ARG:HB3	1:x:309:LEU:HD21	1.90	0.53
1:y:348:LYS:HB2	1:y:351:GLU:HG2	1.90	0.53
1:1:259:ARG:HH12	1:1:535:ASN:ND2	2.06	0.53
1:2:259:ARG:HH12	1:2:535:ASN:ND2	2.06	0.53
1:3:395:PRO:CG	1:4:387:VAL:HG11	2.38	0.53
1:B:386:THR:HG22	1:B:388:SER:N	2.23	0.53
1:C:290:PRO:HB2	1:C:379:PRO:HD3	1.89	0.53
1:D:491:SER:HB3	1:N:213:ARG:HD2	1.89	0.53
1:E:161:GLN:HE22	1:E:445:GLY:H	1.55	0.53
1:E:272:ARG:NH2	1:Q:301:ALA:O	2.36	0.53
1:E:491:SER:HB3	1:Q:213:ARG:HD2	1.90	0.53
1:F:348:LYS:HB2	1:F:351:GLU:HG2	1.90	0.53
1:G:386:THR:HG22	1:G:388:SER:N	2.23	0.53
1:G:387:VAL:HG11	1:I:395:PRO:CG	2.38	0.53
1:K:127:HIS:HD2	1:K:237:THR:HG22	1.73	0.53
1:L:259:ARG:HH12	1:L:535:ASN:ND2	2.06	0.53
1:L:386:THR:HG22	1:L:388:SER:N	2.23	0.53
1:N:260:GLN:CD	1:N:260:GLN:H	2.16	0.53
1:O:406:ILE:HG22	1:m:428:GLN:HG2	1.91	0.53
1:P:149:ASN:ND2	1:Q:150:ASP:OD1	2.29	0.53
1:T:428:GLN:HG2	1:l:406:ILE:HG22	1.91	0.53
1:X:127:HIS:HD2	1:X:237:THR:HG22	1.73	0.53
1:Z:261:ASN:O	1:4:173:GLN:NE2	2.40	0.53
1:e:348:LYS:HB2	1:e:351:GLU:HG2	1.90	0.53
1:f:213:ARG:HD2	1:g:491:SER:HB3	1.90	0.53
1:i:213:ARG:HD2	1:k:491:SER:HB3	1.89	0.53
1:i:290:PRO:HB2	1:i:379:PRO:HD3	1.89	0.53
1:i:406:ILE:HG22	1:j:428:GLN:HG2	1.90	0.53
1:j:485:HIS:CG	1:k:164:ARG:HG3	2.44	0.53
1:k:259:ARG:HH12	1:k:535:ASN:ND2	2.06	0.53
1:m:387:VAL:HG11	1:n:395:PRO:CG	2.38	0.53
1:q:387:VAL:HG11	1:r:395:PRO:CG	2.38	0.53
1:t:164:ARG:HG3	1:v:485:HIS:CG	2.43	0.53
1:u:535:ASN:ND2	1:v:424:GLU:H	2.01	0.53
1:1:406:ILE:HG22	1:2:428:GLN:HG2	1.91	0.53
1:2:489:MET:HG2	1:4:112:GLN:HB2	1.91	0.53
1:5:161:GLN:HE22	1:5:445:GLY:H	1.55	0.53
1:5:295:TYR:O	1:7:385:SER:OG	2.19	0.53
1:5:428:GLN:HG2	1:7:406:ILE:HG22	1.90	0.53
1:A:149:ASN:ND2	1:E:150:ASP:OD1	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:67:TYR:O	1:C:511:GLY:HA2	2.09	0.53
1:B:295:TYR:O	1:L:385:SER:OG	2.19	0.53
1:B:491:SER:HB3	1:J:213:ARG:HD2	1.90	0.53
1:C:424:GLU:H	1:M:535:ASN:ND2	2.01	0.53
1:C:491:SER:HB3	1:b:213:ARG:HD2	1.90	0.53
1:D:127:HIS:HD2	1:D:237:THR:HG22	1.73	0.53
1:D:164:ARG:HG3	1:P:485:HIS:CG	2.44	0.53
1:D:259:ARG:HH12	1:D:535:ASN:ND2	2.06	0.53
1:E:164:ARG:HG3	1:F:485:HIS:CG	2.43	0.53
1:E:309:LEU:HD21	1:F:272:ARG:HB3	1.91	0.53
1:E:485:HIS:CG	1:Q:164:ARG:HG3	2.43	0.53
1:H:386:THR:HG22	1:H:388:SER:N	2.23	0.53
1:H:491:SER:HB3	1:W:213:ARG:HD2	1.89	0.53
1:M:127:HIS:HD2	1:M:237:THR:HG22	1.73	0.53
1:M:260:GLN:H	1:M:260:GLN:CD	2.16	0.53
1:M:309:LEU:HD21	1:b:272:ARG:HB3	1.91	0.53
1:N:406:ILE:HG22	1:P:428:GLN:HG2	1.90	0.53
1:O:261:ASN:O	1:m:173:GLN:NE2	2.40	0.53
1:P:348:LYS:HB2	1:P:351:GLU:HG2	1.90	0.53
1:Q:290:PRO:HB2	1:Q:379:PRO:HD3	1.89	0.53
1:R:260:GLN:H	1:R:260:GLN:CD	2.16	0.53
1:R:301:ALA:O	1:U:272:ARG:NH2	2.37	0.53
1:T:387:VAL:HG11	1:d:395:PRO:CG	2.38	0.53
1:U:115:VAL:O	1:U:249:ASN:ND2	2.39	0.53
1:X:309:LEU:HD21	1:e:272:ARG:HB3	1.91	0.53
1:X:348:LYS:HB2	1:X:351:GLU:HG2	1.90	0.53
1:a:127:HIS:HD2	1:a:237:THR:HG22	1.73	0.53
1:c:261:ASN:O	1:o:173:GLN:NE2	2.40	0.53
1:c:348:LYS:HB2	1:c:351:GLU:HG2	1.90	0.53
1:f:272:ARG:HB3	1:h:309:LEU:HD21	1.91	0.53
1:f:395:PRO:CG	1:g:387:VAL:HG11	2.38	0.53
1:g:290:PRO:HB2	1:g:379:PRO:HD3	1.89	0.53
1:h:260:GLN:H	1:h:260:GLN:CD	2.16	0.53
1:j:348:LYS:HB2	1:j:351:GLU:HG2	1.90	0.53
1:o:348:LYS:HB2	1:o:351:GLU:HG2	1.90	0.53
1:q:260:GLN:CD	1:q:260:GLN:H	2.16	0.53
1:q:485:HIS:CG	1:r:164:ARG:HG3	2.43	0.53
1:t:387:VAL:HG11	1:u:395:PRO:CG	2.39	0.53
1:t:485:HIS:CG	1:u:164:ARG:HG3	2.43	0.53
1:w:309:LEU:HD21	1:y:272:ARG:HB3	1.91	0.53
1:w:491:SER:HB3	1:x:213:ARG:HD2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:259:ARG:HH12	1:z:535:ASN:ND2	2.06	0.53
1:z:386:THR:HG22	1:z:388:SER:N	2.23	0.53
1:z:485:HIS:CG	1:1:164:ARG:HG3	2.43	0.53
1:5:290:PRO:HB2	1:5:379:PRO:HD3	1.89	0.53
1:5:386:THR:HG22	1:5:388:SER:N	2.23	0.53
1:A:260:GLN:CD	1:A:260:GLN:H	2.16	0.53
1:A:386:THR:HG22	1:A:388:SER:N	2.23	0.53
1:B:387:VAL:HG11	1:J:395:PRO:CG	2.38	0.53
1:B:422:PHE:CE2	1:B:431:ILE:HB	2.44	0.53
1:B:489:MET:HG2	1:I:112:GLN:HB2	1.90	0.53
1:C:173:GLN:NE2	1:M:261:ASN:O	2.40	0.53
1:C:387:VAL:HG11	1:b:395:PRO:CG	2.38	0.53
1:C:406:ILE:HG22	1:b:428:GLN:HG2	1.91	0.53
1:E:387:VAL:HG11	1:Q:395:PRO:CG	2.39	0.53
1:H:260:GLN:H	1:H:260:GLN:CD	2.16	0.53
1:H:290:PRO:HB2	1:H:379:PRO:HD3	1.89	0.53
1:J:489:MET:HG2	1:K:112:GLN:HB2	1.91	0.53
1:K:173:GLN:NE2	1:8:261:ASN:O	2.40	0.53
1:L:333:ASP:HA	1:L:368:GLN:OE1	2.09	0.53
1:N:259:ARG:HH12	1:N:535:ASN:ND2	2.06	0.53
1:N:290:PRO:HB2	1:N:379:PRO:HD3	1.89	0.53
1:R:272:ARG:HB3	1:S:309:LEU:HD21	1.91	0.53
1:R:485:HIS:CG	1:S:164:ARG:HG3	2.44	0.53
1:S:272:ARG:NH2	1:U:301:ALA:O	2.37	0.53
1:V:259:ARG:HH12	1:V:535:ASN:ND2	2.06	0.53
1:Z:164:ARG:HG3	1:3:485:HIS:CG	2.43	0.53
1:Z:485:HIS:CG	1:4:164:ARG:HG3	2.43	0.53
1:b:260:GLN:CD	1:b:260:GLN:H	2.16	0.53
1:c:272:ARG:HB3	1:o:309:LEU:HD21	1.91	0.53
1:c:386:THR:HG22	1:c:388:SER:N	2.23	0.53
1:d:106:PHE:O	1:d:414:TYR:OH	2.25	0.53
1:e:106:PHE:O	1:e:414:TYR:OH	2.25	0.53
1:h:127:HIS:HD2	1:h:237:THR:HG22	1.73	0.53
1:i:259:ARG:HH12	1:i:535:ASN:ND2	2.06	0.53
1:j:112:GLN:HB2	1:w:489:MET:HG2	1.90	0.53
1:o:386:THR:HG22	1:o:388:SER:N	2.23	0.53
1:p:259:ARG:HH12	1:p:535:ASN:ND2	2.06	0.53
1:r:260:GLN:CD	1:r:260:GLN:H	2.16	0.53
1:s:115:VAL:O	1:s:249:ASN:ND2	2.39	0.53
1:s:260:GLN:H	1:s:260:GLN:CD	2.16	0.53
1:v:260:GLN:H	1:v:260:GLN:CD	2.16	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:348:LYS:HB2	1:v:351:GLU:HG2	1.90	0.53
1:w:164:ARG:HG3	1:y:485:HIS:CG	2.43	0.53
1:w:259:ARG:HH12	1:w:535:ASN:ND2	2.06	0.53
1:w:485:HIS:CG	1:x:164:ARG:HG3	2.43	0.53
1:x:290:PRO:HB2	1:x:379:PRO:HD3	1.89	0.53
1:x:348:LYS:HB2	1:x:351:GLU:HG2	1.90	0.53
1:1:260:GLN:CD	1:1:260:GLN:H	2.16	0.53
1:1:290:PRO:HB2	1:1:379:PRO:HD3	1.89	0.53
1:1:386:THR:HG22	1:1:388:SER:N	2.23	0.53
1:1:422:PHE:CE2	1:1:431:ILE:HB	2.44	0.53
1:3:127:HIS:HD2	1:3:237:THR:HG22	1.73	0.53
1:5:67:TYR:O	1:8:511:GLY:HA2	2.09	0.53
1:A:406:ILE:HG22	1:G:428:GLN:HG2	1.91	0.53
1:B:290:PRO:HB2	1:B:379:PRO:HD3	1.89	0.53
1:C:272:ARG:HB3	1:b:309:LEU:HD21	1.90	0.53
1:C:535:ASN:ND2	1:b:424:GLU:H	2.01	0.53
1:D:161:GLN:HE22	1:D:445:GLY:H	1.55	0.53
1:D:290:PRO:HB2	1:D:379:PRO:HD3	1.89	0.53
1:E:259:ARG:HH12	1:E:535:ASN:ND2	2.06	0.53
1:E:489:MET:HG2	1:P:112:GLN:HB2	1.90	0.53
1:G:112:GLN:HB2	1:H:489:MET:HG2	1.91	0.53
1:G:272:ARG:HB3	1:I:309:LEU:HD21	1.90	0.53
1:G:485:HIS:CG	1:I:164:ARG:HG3	2.43	0.53
1:H:161:GLN:HE22	1:H:445:GLY:H	1.55	0.53
1:K:164:ARG:HG3	1:8:485:HIS:CG	2.43	0.53
1:K:491:SER:HB3	1:a:213:ARG:HD2	1.89	0.53
1:L:348:LYS:HB2	1:L:351:GLU:HG2	1.90	0.53
1:M:395:PRO:CG	1:b:387:VAL:HG11	2.38	0.53
1:N:112:GLN:HB2	1:O:489:MET:HG2	1.91	0.53
1:N:149:ASN:ND2	1:m:150:ASP:OD1	2.29	0.53
1:O:164:ARG:HG3	1:n:485:HIS:CG	2.43	0.53
1:R:173:GLN:NE2	1:U:261:ASN:O	2.40	0.53
1:S:127:HIS:HD2	1:S:237:THR:HG22	1.73	0.53
1:S:272:ARG:HB3	1:U:309:LEU:HD21	1.91	0.53
1:S:491:SER:HB3	1:U:213:ARG:HD2	1.89	0.53
1:U:161:GLN:HE22	1:U:445:GLY:H	1.55	0.53
1:U:260:GLN:H	1:U:260:GLN:CD	2.16	0.53
1:U:290:PRO:HB2	1:U:379:PRO:HD3	1.89	0.53
1:V:387:VAL:HG11	1:e:395:PRO:CG	2.38	0.53
1:W:115:VAL:O	1:W:249:ASN:ND2	2.39	0.53
1:W:489:MET:HG2	1:X:112:GLN:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:106:PHE:O	1:X:414:TYR:OH	2.25	0.53
1:X:173:GLN:NE2	1:e:261:ASN:O	2.40	0.53
1:X:386:THR:HG22	1:X:388:SER:N	2.23	0.53
1:Z:422:PHE:CE2	1:Z:431:ILE:HB	2.44	0.53
1:a:485:HIS:CG	1:8:164:ARG:HG3	2.43	0.53
1:f:260:GLN:H	1:f:260:GLN:CD	2.16	0.53
1:f:428:GLN:HG2	1:g:406:ILE:HG22	1.91	0.53
1:i:112:GLN:HB2	1:l:489:MET:HG2	1.91	0.53
1:i:260:GLN:CD	1:i:260:GLN:H	2.16	0.53
1:j:161:GLN:HE22	1:j:445:GLY:H	1.55	0.53
1:o:106:PHE:O	1:o:414:TYR:OH	2.25	0.53
1:o:112:GLN:HB2	1:6:489:MET:HG2	1.91	0.53
1:q:272:ARG:HB3	1:r:309:LEU:HD21	1.91	0.53
1:r:127:HIS:HD2	1:r:237:THR:HG22	1.73	0.53
1:r:290:PRO:HB2	1:r:379:PRO:HD3	1.89	0.53
1:t:115:VAL:O	1:t:249:ASN:ND2	2.39	0.53
1:t:272:ARG:HB3	1:u:309:LEU:HD21	1.90	0.53
1:t:428:GLN:HG2	1:v:406:ILE:HG22	1.91	0.53
1:w:272:ARG:NH2	1:x:301:ALA:O	2.36	0.53
1:w:387:VAL:HG11	1:x:395:PRO:CG	2.39	0.53
1:3:213:ARG:HD2	1:4:491:SER:HB3	1.89	0.53
1:3:428:GLN:HG2	1:4:406:ILE:HG22	1.91	0.53
1:5:387:VAL:HG11	1:6:395:PRO:CG	2.38	0.53
1:A:348:LYS:HB2	1:A:351:GLU:HG2	1.90	0.53
1:B:260:GLN:H	1:B:260:GLN:CD	2.16	0.53
1:D:213:ARG:HD2	1:P:491:SER:HB3	1.89	0.53
1:E:106:PHE:O	1:E:414:TYR:OH	2.25	0.53
1:E:395:PRO:CG	1:F:387:VAL:HG11	2.38	0.53
1:G:333:ASP:HA	1:G:368:GLN:OE1	2.09	0.53
1:H:333:ASP:HA	1:H:368:GLN:OE1	2.09	0.53
1:K:406:ILE:HG22	1:a:428:GLN:HG2	1.91	0.53
1:K:422:PHE:CE2	1:K:431:ILE:HB	2.44	0.53
1:N:422:PHE:CE2	1:N:431:ILE:HB	2.44	0.53
1:O:387:VAL:HG11	1:m:395:PRO:CG	2.38	0.53
1:Q:348:LYS:HB2	1:Q:351:GLU:HG2	1.90	0.53
1:R:395:PRO:CG	1:U:387:VAL:HG11	2.38	0.53
1:S:290:PRO:HB2	1:S:379:PRO:HD3	1.89	0.53
1:S:333:ASP:HA	1:S:368:GLN:OE1	2.09	0.53
1:V:213:ARG:HD2	1:X:491:SER:HB3	1.89	0.53
1:V:333:ASP:HA	1:V:368:GLN:OE1	2.09	0.53
1:a:259:ARG:HH12	1:a:535:ASN:ND2	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:106:PHE:O	1:c:414:TYR:OH	2.25	0.53
1:c:395:PRO:CG	1:p:387:VAL:HG11	2.38	0.53
1:d:422:PHE:CE2	1:d:431:ILE:HB	2.44	0.53
1:e:386:THR:HG22	1:e:388:SER:N	2.23	0.53
1:f:309:LEU:HD21	1:g:272:ARG:HB3	1.90	0.53
1:g:164:ARG:HG3	1:h:485:HIS:CG	2.43	0.53
1:g:173:GLN:NE2	1:h:261:ASN:O	2.40	0.53
1:g:301:ALA:O	1:h:272:ARG:NH2	2.37	0.53
1:g:424:GLU:H	1:h:535:ASN:ND2	2.01	0.53
1:i:422:PHE:CE2	1:i:431:ILE:HB	2.44	0.53
1:k:161:GLN:HE22	1:k:445:GLY:H	1.55	0.53
1:k:290:PRO:HB2	1:k:379:PRO:HD3	1.89	0.53
1:m:535:ASN:ND2	1:n:424:GLU:H	2.01	0.53
1:o:387:VAL:HG11	1:p:395:PRO:CG	2.38	0.53
1:p:422:PHE:CE2	1:p:431:ILE:HB	2.44	0.53
1:q:173:GLN:NE2	1:s:261:ASN:O	2.40	0.53
1:q:301:ALA:O	1:s:272:ARG:NH2	2.37	0.53
1:q:395:PRO:CG	1:s:387:VAL:HG11	2.38	0.53
1:r:333:ASP:HA	1:r:368:GLN:OE1	2.09	0.53
1:r:491:SER:HB3	1:s:213:ARG:HD2	1.89	0.53
1:s:161:GLN:HE22	1:s:445:GLY:H	1.55	0.53
1:s:290:PRO:HB2	1:s:379:PRO:HD3	1.89	0.53
1:t:333:ASP:HA	1:t:368:GLN:OE1	2.09	0.53
1:w:428:GLN:HG2	1:y:406:ILE:HG22	1.91	0.53
1:y:386:THR:HG22	1:y:388:SER:N	2.23	0.53
1:z:309:LEU:HD21	1:2:272:ARG:HB3	1.91	0.53
1:z:333:ASP:HA	1:z:368:GLN:OE1	2.09	0.53
1:z:348:LYS:HB2	1:z:351:GLU:HG2	1.90	0.53
1:1:485:HIS:CG	1:2:164:ARG:HG3	2.43	0.53
1:3:259:ARG:HH12	1:3:535:ASN:ND2	2.06	0.53
1:3:301:ALA:O	1:4:272:ARG:NH2	2.37	0.53
1:3:333:ASP:HA	1:3:368:GLN:OE1	2.09	0.53
1:4:422:PHE:CE2	1:4:431:ILE:HB	2.44	0.53
1:5:333:ASP:HA	1:5:368:GLN:OE1	2.09	0.53
1:7:386:THR:HG22	1:7:388:SER:N	2.23	0.53
1:8:422:PHE:CE2	1:8:431:ILE:HB	2.44	0.53
1:B:485:HIS:CG	1:J:164:ARG:HG3	2.44	0.53
1:E:112:GLN:HB2	1:P:489:MET:HG2	1.91	0.53
1:E:333:ASP:HA	1:E:368:GLN:OE1	2.09	0.53
1:E:428:GLN:HG2	1:F:406:ILE:HG22	1.91	0.53
1:F:386:THR:OG1	1:F:392:ALA:O	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:115:VAL:O	1:G:249:ASN:ND2	2.39	0.53
1:K:385:SER:OG	1:a:295:TYR:O	2.19	0.53
1:L:260:GLN:CD	1:L:260:GLN:H	2.16	0.53
1:M:386:THR:HG22	1:M:388:SER:N	2.23	0.53
1:P:161:GLN:HE22	1:P:445:GLY:H	1.55	0.53
1:P:260:GLN:H	1:P:260:GLN:CD	2.16	0.53
1:Q:112:GLN:HB2	1:R:489:MET:HG2	1.91	0.53
1:Q:333:ASP:HA	1:Q:368:GLN:OE1	2.09	0.53
1:Q:511:GLY:HA2	1:S:67:TYR:O	2.09	0.53
1:R:164:ARG:HG3	1:U:485:HIS:CG	2.43	0.53
1:R:406:ILE:HG22	1:S:428:GLN:HG2	1.91	0.53
1:S:387:VAL:HG11	1:U:395:PRO:CG	2.38	0.53
1:S:485:HIS:CG	1:U:164:ARG:HG3	2.43	0.53
1:T:272:ARG:HB3	1:d:309:LEU:HD21	1.91	0.53
1:U:333:ASP:HA	1:U:368:GLN:OE1	2.09	0.53
1:V:422:PHE:CE2	1:V:431:ILE:HB	2.44	0.53
1:V:428:GLN:HG2	1:X:406:ILE:HG22	1.91	0.53
1:Y:386:THR:HG22	1:Y:388:SER:N	2.23	0.53
1:Z:386:THR:OG1	1:Z:392:ALA:O	2.27	0.53
1:a:333:ASP:HA	1:a:368:GLN:OE1	2.09	0.53
1:d:259:ARG:HH12	1:d:535:ASN:ND2	2.06	0.53
1:d:485:HIS:CG	1:l:164:ARG:HG3	2.43	0.53
1:f:386:THR:HG22	1:f:388:SER:N	2.23	0.53
1:f:387:VAL:HG11	1:h:395:PRO:CG	2.38	0.53
1:j:260:GLN:CD	1:j:260:GLN:H	2.16	0.53
1:j:489:MET:HG2	1:w:112:GLN:HB2	1.91	0.53
1:j:491:SER:HB3	1:k:213:ARG:HD2	1.89	0.53
1:m:272:ARG:HB3	1:n:309:LEU:HD21	1.91	0.53
1:m:422:PHE:CE2	1:m:431:ILE:HB	2.44	0.53
1:n:259:ARG:HH12	1:n:535:ASN:ND2	2.06	0.53
1:n:422:PHE:CE2	1:n:431:ILE:HB	2.44	0.53
1:p:333:ASP:HA	1:p:368:GLN:OE1	2.09	0.53
1:q:164:ARG:HG3	1:s:485:HIS:CG	2.43	0.53
1:q:406:ILE:HG22	1:r:428:GLN:HG2	1.91	0.53
1:r:272:ARG:HB3	1:s:309:LEU:HD21	1.91	0.53
1:r:386:THR:HG22	1:r:388:SER:N	2.23	0.53
1:r:387:VAL:HG11	1:s:395:PRO:CG	2.38	0.53
1:s:333:ASP:HA	1:s:368:GLN:OE1	2.09	0.53
1:s:386:THR:OG1	1:s:392:ALA:O	2.27	0.53
1:t:260:GLN:CD	1:t:260:GLN:H	2.16	0.53
1:t:348:LYS:HB2	1:t:351:GLU:HG2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:386:THR:HG22	1:v:388:SER:N	2.23	0.53
1:w:333:ASP:HA	1:w:368:GLN:OE1	2.09	0.53
1:w:395:PRO:CG	1:y:387:VAL:HG11	2.38	0.53
1:6:259:ARG:HH12	1:6:535:ASN:ND2	2.06	0.53
1:6:333:ASP:HA	1:6:368:GLN:OE1	2.09	0.53
1:7:260:GLN:H	1:7:260:GLN:CD	2.16	0.53
1:8:386:THR:OG1	1:8:392:ALA:O	2.27	0.53
1:A:422:PHE:CE2	1:A:431:ILE:HB	2.44	0.53
1:A:428:GLN:HG2	1:I:406:ILE:HG22	1.91	0.53
1:C:164:ARG:HG3	1:M:485:HIS:CG	2.43	0.53
1:C:301:ALA:O	1:M:272:ARG:NH2	2.37	0.53
1:E:422:PHE:CE2	1:E:431:ILE:HB	2.44	0.53
1:G:348:LYS:HB2	1:G:351:GLU:HG2	1.90	0.53
1:K:149:ASN:ND2	1:L:150:ASP:OD1	2.29	0.53
1:K:272:ARG:NH2	1:a:301:ALA:O	2.37	0.53
1:M:333:ASP:HA	1:M:368:GLN:OE1	2.09	0.53
1:N:408:ASP:HA	1:P:426:ASP:HB2	1.91	0.53
1:O:272:ARG:HB3	1:m:309:LEU:HD21	1.91	0.53
1:S:386:THR:HG22	1:S:388:SER:N	2.23	0.53
1:T:260:GLN:CD	1:T:260:GLN:H	2.16	0.53
1:T:395:PRO:CG	1:l:387:VAL:HG11	2.38	0.53
1:T:422:PHE:CE2	1:T:431:ILE:HB	2.44	0.53
1:U:386:THR:OG1	1:U:392:ALA:O	2.27	0.53
1:V:395:PRO:CG	1:X:387:VAL:HG11	2.38	0.53
1:W:259:ARG:HH12	1:W:535:ASN:ND2	2.06	0.53
1:W:333:ASP:HA	1:W:368:GLN:OE1	2.09	0.53
1:W:348:LYS:HB2	1:W:351:GLU:HG2	1.90	0.53
1:Z:406:ILE:HG22	1:4:428:GLN:HG2	1.91	0.53
1:a:272:ARG:HB3	1:8:309:LEU:HD21	1.91	0.53
1:b:161:GLN:HE22	1:b:445:GLY:H	1.55	0.53
1:b:386:THR:HG22	1:b:388:SER:N	2.23	0.53
1:c:422:PHE:CE2	1:c:431:ILE:HB	2.44	0.53
1:e:422:PHE:CE2	1:e:431:ILE:HB	2.44	0.53
1:g:511:GLY:HA2	1:1:67:TYR:O	2.09	0.53
1:h:386:THR:HG22	1:h:388:SER:N	2.23	0.53
1:i:408:ASP:HA	1:j:426:ASP:HB2	1.91	0.53
1:m:406:ILE:HG22	1:n:428:GLN:HG2	1.91	0.53
1:o:406:ILE:HG22	1:p:428:GLN:HG2	1.91	0.53
1:o:491:SER:HB3	1:p:213:ARG:HD2	1.89	0.53
1:o:511:GLY:HA2	1:7:67:TYR:O	2.09	0.53
1:q:489:MET:HG2	1:x:112:GLN:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:67:TYR:O	1:x:511:GLY:HA2	2.09	0.53
1:r:272:ARG:NH2	1:s:301:ALA:O	2.37	0.53
1:r:485:HIS:CG	1:s:164:ARG:HG3	2.43	0.53
1:t:385:SER:OG	1:u:295:TYR:O	2.19	0.53
1:u:406:ILE:HG22	1:v:428:GLN:HG2	1.91	0.53
1:w:106:PHE:O	1:w:414:TYR:OH	2.25	0.53
1:w:290:PRO:HB2	1:w:379:PRO:HD3	1.89	0.53
1:x:333:ASP:HA	1:x:368:GLN:OE1	2.09	0.53
1:y:259:ARG:HH12	1:y:535:ASN:ND2	2.06	0.53
1:y:386:THR:OG1	1:y:392:ALA:O	2.27	0.53
1:y:422:PHE:CE2	1:y:431:ILE:HB	2.44	0.53
1:1:333:ASP:HA	1:1:368:GLN:OE1	2.09	0.53
1:6:348:LYS:HB2	1:6:351:GLU:HG2	1.90	0.53
1:B:333:ASP:HA	1:B:368:GLN:OE1	2.09	0.53
1:B:395:PRO:CG	1:L:387:VAL:HG11	2.38	0.53
1:D:309:LEU:HD21	1:P:272:ARG:HB3	1.91	0.53
1:E:213:ARG:HD2	1:F:491:SER:HB3	1.90	0.53
1:E:290:PRO:HB2	1:E:379:PRO:HD3	1.89	0.53
1:F:164:ARG:HG3	1:Q:485:HIS:CG	2.43	0.53
1:F:259:ARG:HH12	1:F:535:ASN:ND2	2.06	0.53
1:F:422:PHE:CE2	1:F:431:ILE:HB	2.44	0.53
1:H:485:HIS:CG	1:W:164:ARG:HG3	2.44	0.53
1:J:272:ARG:HB3	1:L:309:LEU:HD21	1.91	0.53
1:J:485:HIS:CG	1:L:164:ARG:HG3	2.43	0.53
1:K:428:GLN:HG2	1:8:406:ILE:HG22	1.91	0.53
1:L:127:HIS:HD2	1:L:237:THR:HG22	1.73	0.53
1:N:333:ASP:HA	1:N:368:GLN:OE1	2.09	0.53
1:O:309:LEU:HD21	1:n:272:ARG:HB3	1.91	0.53
1:P:386:THR:OG1	1:P:392:ALA:O	2.27	0.53
1:P:422:PHE:CE2	1:P:431:ILE:HB	2.44	0.53
1:Q:489:MET:HG2	1:R:112:GLN:HB2	1.91	0.53
1:T:406:ILE:HG22	1:d:428:GLN:HG2	1.91	0.53
1:V:386:THR:OG1	1:V:392:ALA:O	2.27	0.53
1:X:424:GLU:H	1:e:535:ASN:ND2	2.01	0.53
1:X:428:GLN:HG2	1:e:406:ILE:HG22	1.91	0.53
1:X:511:GLY:HA2	1:Y:67:TYR:O	2.09	0.53
1:Y:112:GLN:HB2	1:Z:489:MET:HG2	1.91	0.53
1:Y:348:LYS:HB2	1:Y:351:GLU:HG2	1.90	0.53
1:Z:309:LEU:HD21	1:3:272:ARG:HB3	1.91	0.53
1:c:333:ASP:HA	1:c:368:GLN:OE1	2.09	0.53
1:c:406:ILE:HG22	1:o:428:GLN:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:272:ARG:HB3	1:l:309:LEU:HD21	1.91	0.53
1:d:489:MET:HG2	1:n:112:GLN:HB2	1.91	0.53
1:f:67:TYR:O	1:z:511:GLY:HA2	2.09	0.53
1:h:333:ASP:HA	1:h:368:GLN:OE1	2.09	0.53
1:j:386:THR:OG1	1:j:392:ALA:O	2.27	0.53
1:j:406:ILE:HG22	1:k:428:GLN:HG2	1.91	0.53
1:m:260:GLN:H	1:m:260:GLN:CD	2.16	0.53
1:p:386:THR:OG1	1:p:392:ALA:O	2.27	0.53
1:p:489:MET:HG2	1:s:112:GLN:HB2	1.91	0.53
1:u:115:VAL:O	1:u:249:ASN:ND2	2.39	0.53
1:v:422:PHE:CE2	1:v:431:ILE:HB	2.44	0.53
1:w:422:PHE:CE2	1:w:431:ILE:HB	2.44	0.53
1:z:260:GLN:CD	1:z:260:GLN:H	2.16	0.53
1:5:426:ASP:HB2	1:7:408:ASP:HA	1.91	0.53
1:5:491:SER:HB3	1:6:213:ARG:HD2	1.90	0.53
1:7:112:GLN:HB2	1:8:489:MET:HG2	1.91	0.53
1:A:511:GLY:HA2	1:E:67:TYR:O	2.09	0.53
1:B:348:LYS:HB2	1:B:351:GLU:HG2	1.90	0.53
1:D:428:GLN:HG2	1:P:406:ILE:HG22	1.91	0.53
1:F:290:PRO:HB2	1:F:379:PRO:HD3	1.89	0.53
1:G:386:THR:OG1	1:G:392:ALA:O	2.27	0.53
1:H:67:TYR:O	1:Z:511:GLY:HA2	2.09	0.53
1:H:348:LYS:HB2	1:H:351:GLU:HG2	1.90	0.53
1:H:426:ASP:HB2	1:Y:408:ASP:HA	1.91	0.53
1:I:422:PHE:CE2	1:I:431:ILE:HB	2.44	0.53
1:L:511:GLY:HA2	1:b:67:TYR:O	2.09	0.53
1:M:428:GLN:HG2	1:b:406:ILE:HG22	1.91	0.53
1:N:485:HIS:CG	1:P:164:ARG:HG3	2.43	0.53
1:O:485:HIS:CG	1:m:164:ARG:HG3	2.43	0.53
1:P:127:HIS:HD2	1:P:237:THR:HG22	1.73	0.53
1:Q:260:GLN:CD	1:Q:260:GLN:H	2.16	0.53
1:T:309:LEU:HD21	1:l:272:ARG:HB3	1.91	0.53
1:T:348:LYS:HB2	1:T:351:GLU:HG2	1.90	0.53
1:T:485:HIS:CG	1:d:164:ARG:HG3	2.43	0.53
1:T:535:ASN:ND2	1:d:424:GLU:H	2.01	0.53
1:U:112:GLN:HB2	1:V:489:MET:HG2	1.91	0.53
1:U:127:HIS:HD2	1:U:237:THR:HG22	1.73	0.53
1:U:489:MET:HG2	1:V:112:GLN:HB2	1.91	0.53
1:Y:260:GLN:CD	1:Y:260:GLN:H	2.16	0.53
1:b:348:LYS:HB2	1:b:351:GLU:HG2	1.90	0.53
1:d:112:GLN:HB2	1:n:489:MET:HG2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:260:GLN:CD	1:d:260:GLN:H	2.16	0.53
1:e:333:ASP:HA	1:e:368:GLN:OE1	2.09	0.53
1:f:161:GLN:HE22	1:f:445:GLY:H	1.55	0.53
1:f:348:LYS:HB2	1:f:351:GLU:HG2	1.90	0.53
1:f:406:ILE:HG22	1:h:428:GLN:HG2	1.91	0.53
1:i:333:ASP:HA	1:i:368:GLN:OE1	2.09	0.53
1:j:422:PHE:CE2	1:j:431:ILE:HB	2.44	0.53
1:n:260:GLN:H	1:n:260:GLN:CD	2.16	0.53
1:o:422:PHE:CE2	1:o:431:ILE:HB	2.44	0.53
1:q:112:GLN:HB2	1:x:489:MET:HG2	1.91	0.53
1:u:112:GLN:HB2	1:1:489:MET:HG2	1.91	0.53
1:u:422:PHE:CE2	1:u:431:ILE:HB	2.44	0.53
1:w:213:ARG:HD2	1:y:491:SER:HB3	1.90	0.53
1:x:485:HIS:CG	1:y:164:ARG:HG3	2.43	0.53
1:y:333:ASP:HA	1:y:368:GLN:OE1	2.09	0.53
1:z:406:ILE:HG22	1:1:428:GLN:HG2	1.91	0.53
1:2:333:ASP:HA	1:2:368:GLN:OE1	2.09	0.53
1:3:295:TYR:O	1:4:385:SER:OG	2.19	0.53
1:5:348:LYS:HB2	1:5:351:GLU:HG2	1.90	0.53
1:7:333:ASP:HA	1:7:368:GLN:OE1	2.09	0.53
1:7:348:LYS:HB2	1:7:351:GLU:HG2	1.90	0.53
1:A:164:ARG:HG3	1:I:485:HIS:CG	2.43	0.52
1:A:395:PRO:CG	1:I:387:VAL:HG11	2.38	0.52
1:B:454:LYS:HG2	1:B:463:ILE:HD12	1.92	0.52
1:D:454:LYS:HG2	1:D:463:ILE:HD12	1.92	0.52
1:F:333:ASP:HA	1:F:368:GLN:OE1	2.09	0.52
1:H:106:PHE:O	1:H:414:TYR:OH	2.25	0.52
1:H:454:LYS:HG2	1:H:463:ILE:HD12	1.92	0.52
1:I:511:GLY:HA2	1:J:67:TYR:O	2.09	0.52
1:M:67:TYR:O	1:c:511:GLY:HA2	2.09	0.52
1:N:272:ARG:NH2	1:P:301:ALA:O	2.37	0.52
1:N:454:LYS:HG2	1:N:463:ILE:HD12	1.91	0.52
1:N:511:GLY:HA2	1:m:67:TYR:O	2.10	0.52
1:O:67:TYR:O	1:d:511:GLY:HA2	2.10	0.52
1:O:259:ARG:HH12	1:O:535:ASN:ND2	2.06	0.52
1:P:333:ASP:HA	1:P:368:GLN:OE1	2.09	0.52
1:T:67:TYR:O	1:i:511:GLY:HA2	2.10	0.52
1:T:164:ARG:HG3	1:l:485:HIS:CG	2.43	0.52
1:T:333:ASP:HA	1:T:368:GLN:OE1	2.09	0.52
1:U:511:GLY:HA2	1:e:67:TYR:O	2.09	0.52
1:W:387:VAL:HG11	1:Y:395:PRO:CG	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:422:PHE:CE2	1:X:431:ILE:HB	2.44	0.52
1:Y:489:MET:HG2	1:Z:112:GLN:HB2	1.91	0.52
1:a:454:LYS:HG2	1:a:463:ILE:HD12	1.92	0.52
1:i:164:ARG:HG3	1:k:485:HIS:CG	2.44	0.52
1:i:454:LYS:HG2	1:i:463:ILE:HD12	1.91	0.52
1:j:67:TYR:O	1:l:511:GLY:HA2	2.09	0.52
1:j:272:ARG:HB3	1:k:309:LEU:HD21	1.91	0.52
1:k:422:PHE:CE2	1:k:431:ILE:HB	2.44	0.52
1:k:454:LYS:HG2	1:k:463:ILE:HD12	1.92	0.52
1:l:259:ARG:HH12	1:l:535:ASN:ND2	2.06	0.52
1:m:333:ASP:HA	1:m:368:GLN:OE1	2.09	0.52
1:m:348:LYS:HB2	1:m:351:GLU:HG2	1.90	0.52
1:m:485:HIS:CG	1:n:164:ARG:HG3	2.43	0.52
1:p:112:GLN:HB2	1:s:489:MET:HG2	1.91	0.52
1:q:333:ASP:HA	1:q:368:GLN:OE1	2.09	0.52
1:t:301:ALA:O	1:v:272:ARG:NH2	2.37	0.52
1:t:386:THR:OG1	1:t:392:ALA:O	2.27	0.52
1:v:150:ASP:OD1	1:1:149:ASN:ND2	2.29	0.52
1:v:511:GLY:HA2	1:w:67:TYR:O	2.09	0.52
1:x:260:GLN:H	1:x:260:GLN:CD	2.16	0.52
1:x:272:ARG:HB3	1:y:309:LEU:HD21	1.90	0.52
1:x:422:PHE:CE2	1:x:431:ILE:HB	2.44	0.52
1:y:290:PRO:HB2	1:y:379:PRO:HD3	1.89	0.52
1:z:127:HIS:HD2	1:z:237:THR:HG22	1.73	0.52
1:z:150:ASP:OD1	1:4:149:ASN:ND2	2.29	0.52
1:z:164:ARG:HG3	1:2:485:HIS:CG	2.43	0.52
1:z:535:ASN:ND2	1:1:424:GLU:H	2.01	0.52
1:1:348:LYS:HB2	1:1:351:GLU:HG2	1.90	0.52
1:1:387:VAL:HG11	1:2:395:PRO:CG	2.38	0.52
1:3:454:LYS:HG2	1:3:463:ILE:HD12	1.92	0.52
1:5:454:LYS:HG2	1:5:463:ILE:HD12	1.92	0.52
1:6:387:VAL:HG11	1:7:395:PRO:CG	2.38	0.52
1:7:422:PHE:CE2	1:7:431:ILE:HB	2.44	0.52
1:D:386:THR:OG1	1:D:392:ALA:O	2.27	0.52
1:D:422:PHE:CE2	1:D:431:ILE:HB	2.44	0.52
1:F:309:LEU:HD21	1:Q:272:ARG:HB3	1.90	0.52
1:G:260:GLN:CD	1:G:260:GLN:H	2.16	0.52
1:G:489:MET:HG2	1:H:112:GLN:HB2	1.90	0.52
1:J:333:ASP:HA	1:J:368:GLN:OE1	2.09	0.52
1:K:309:LEU:HD21	1:8:272:ARG:HB3	1.91	0.52
1:K:333:ASP:HA	1:K:368:GLN:OE1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:422:PHE:CE2	1:L:431:ILE:HB	2.44	0.52
1:M:454:LYS:HG2	1:M:463:ILE:HD12	1.92	0.52
1:N:386:THR:OG1	1:N:392:ALA:O	2.27	0.52
1:O:348:LYS:HB2	1:O:351:GLU:HG2	1.90	0.52
1:O:511:GLY:HA2	1:P:67:TYR:O	2.09	0.52
1:Q:386:THR:HG22	1:Q:388:SER:N	2.23	0.52
1:Q:422:PHE:CE2	1:Q:431:ILE:HB	2.44	0.52
1:Q:454:LYS:HG2	1:Q:463:ILE:HD12	1.92	0.52
1:R:333:ASP:HA	1:R:368:GLN:OE1	2.09	0.52
1:S:106:PHE:O	1:S:414:TYR:OH	2.25	0.52
1:S:348:LYS:HB2	1:S:351:GLU:HG2	1.90	0.52
1:V:67:TYR:O	1:W:511:GLY:HA2	2.10	0.52
1:X:67:TYR:O	1:f:511:GLY:HA2	2.09	0.52
1:Y:106:PHE:O	1:Y:414:TYR:OH	2.25	0.52
1:Y:422:PHE:CE2	1:Y:431:ILE:HB	2.44	0.52
1:c:67:TYR:O	1:s:511:GLY:HA2	2.09	0.52
1:c:127:HIS:HD2	1:c:237:THR:HG22	1.73	0.52
1:e:112:GLN:HB2	1:f:489:MET:HG2	1.91	0.52
1:e:511:GLY:HA2	1:h:67:TYR:O	2.09	0.52
1:i:485:HIS:CG	1:j:164:ARG:HG3	2.43	0.52
1:j:127:HIS:HD2	1:j:237:THR:HG22	1.73	0.52
1:j:333:ASP:HA	1:j:368:GLN:OE1	2.09	0.52
1:l:67:TYR:O	1:n:511:GLY:HA2	2.10	0.52
1:l:348:LYS:HB2	1:l:351:GLU:HG2	1.90	0.52
1:p:67:TYR:O	1:6:511:GLY:HA2	2.10	0.52
1:p:149:ASN:ND2	1:q:150:ASP:OD1	2.29	0.52
1:r:106:PHE:O	1:r:414:TYR:OH	2.25	0.52
1:r:348:LYS:HB2	1:r:351:GLU:HG2	1.90	0.52
1:u:387:VAL:HG11	1:v:395:PRO:CG	2.38	0.52
1:u:511:GLY:HA2	1:2:67:TYR:O	2.09	0.52
1:x:35:THR:HG1	1:x:132:ASN:H	1.58	0.52
1:x:454:LYS:HG2	1:x:463:ILE:HD12	1.92	0.52
1:z:387:VAL:HG11	1:1:395:PRO:CG	2.38	0.52
1:1:454:LYS:HG2	1:1:463:ILE:HD12	1.92	0.52
1:3:260:GLN:CD	1:3:260:GLN:H	2.16	0.52
1:3:309:LEU:HD21	1:4:272:ARG:HB3	1.91	0.52
1:4:333:ASP:HA	1:4:368:GLN:OE1	2.09	0.52
1:5:106:PHE:O	1:5:414:TYR:OH	2.25	0.52
1:5:485:HIS:CG	1:6:164:ARG:HG3	2.44	0.52
1:7:489:MET:HG2	1:8:112:GLN:HB2	1.91	0.52
1:A:272:ARG:NH2	1:G:301:ALA:O	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:408:ASP:HA	1:G:426:ASP:HB2	1.92	0.52
1:C:489:MET:HG2	1:L:112:GLN:HB2	1.91	0.52
1:D:333:ASP:HA	1:D:368:GLN:OE1	2.09	0.52
1:D:406:ILE:HG22	1:N:428:GLN:HG2	1.91	0.52
1:D:485:HIS:CG	1:N:164:ARG:HG3	2.44	0.52
1:D:489:MET:HG2	1:M:112:GLN:HB2	1.91	0.52
1:I:454:LYS:HG2	1:I:463:ILE:HD12	1.92	0.52
1:J:112:GLN:HB2	1:K:489:MET:HG2	1.91	0.52
1:K:272:ARG:HB3	1:a:309:LEU:HD21	1.91	0.52
1:L:334:LYS:HE3	1:L:336:GLU:OE2	2.10	0.52
1:M:348:LYS:HB2	1:M:351:GLU:HG2	1.90	0.52
1:Q:35:THR:HG1	1:Q:132:ASN:H	1.58	0.52
1:R:106:PHE:O	1:R:414:TYR:OH	2.25	0.52
1:S:422:PHE:CE2	1:S:431:ILE:HB	2.44	0.52
1:U:454:LYS:HG2	1:U:463:ILE:HD12	1.91	0.52
1:V:309:LEU:HD21	1:X:272:ARG:HB3	1.90	0.52
1:Y:333:ASP:HA	1:Y:368:GLN:OE1	2.09	0.52
1:a:386:THR:OG1	1:a:392:ALA:O	2.27	0.52
1:a:422:PHE:CE2	1:a:431:ILE:HB	2.44	0.52
1:b:454:LYS:HG2	1:b:463:ILE:HD12	1.92	0.52
1:b:489:MET:HG2	1:c:112:GLN:HB2	1.91	0.52
1:b:511:GLY:HA2	1:o:67:TYR:O	2.09	0.52
1:c:535:ASN:ND2	1:o:424:GLU:H	2.01	0.52
1:d:348:LYS:HB2	1:d:351:GLU:HG2	1.90	0.52
1:e:127:HIS:HD2	1:e:237:THR:HG22	1.73	0.52
1:f:454:LYS:HG2	1:f:463:ILE:HD12	1.91	0.52
1:g:489:MET:HG2	1:z:112:GLN:HB2	1.91	0.52
1:h:348:LYS:HB2	1:h:351:GLU:HG2	1.90	0.52
1:h:454:LYS:HG2	1:h:463:ILE:HD12	1.92	0.52
1:i:386:THR:HG22	1:i:388:SER:N	2.23	0.52
1:i:386:THR:OG1	1:i:392:ALA:O	2.27	0.52
1:k:67:TYR:O	1:w:511:GLY:HA2	2.09	0.52
1:k:333:ASP:HA	1:k:368:GLN:OE1	2.09	0.52
1:s:127:HIS:HD2	1:s:237:THR:HG22	1.73	0.52
1:s:422:PHE:CE2	1:s:431:ILE:HB	2.44	0.52
1:t:426:ASP:HB2	1:v:408:ASP:HA	1.92	0.52
1:t:489:MET:HG2	1:5:112:GLN:HB2	1.91	0.52
1:u:485:HIS:CG	1:v:164:ARG:HG3	2.43	0.52
1:v:386:THR:OG1	1:v:392:ALA:O	2.27	0.52
1:x:386:THR:HG22	1:x:388:SER:N	2.23	0.52
1:z:385:SER:OG	1:l:295:TYR:O	2.19	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:422:PHE:CE2	1:z:431:ILE:HB	2.44	0.52
1:3:386:THR:OG1	1:3:392:ALA:O	2.27	0.52
1:5:260:GLN:H	1:5:260:GLN:CD	2.16	0.52
1:7:106:PHE:O	1:7:414:TYR:OH	2.25	0.52
1:A:67:TYR:O	1:B:511:GLY:HA2	2.09	0.52
1:A:309:LEU:HD21	1:I:272:ARG:HB3	1.90	0.52
1:B:428:GLN:HG2	1:L:406:ILE:HG22	1.91	0.52
1:E:334:LYS:HE3	1:E:336:GLU:OE2	2.10	0.52
1:G:454:LYS:HG2	1:G:463:ILE:HD12	1.92	0.52
1:H:422:PHE:CE2	1:H:431:ILE:HB	2.44	0.52
1:I:333:ASP:HA	1:I:368:GLN:OE1	2.09	0.52
1:J:406:ILE:HG22	1:L:428:GLN:HG2	1.91	0.52
1:J:422:PHE:CE2	1:J:431:ILE:HB	2.44	0.52
1:J:511:GLY:HA2	1:a:67:TYR:O	2.09	0.52
1:K:386:THR:OG1	1:K:392:ALA:O	2.27	0.52
1:M:150:ASP:OD1	1:c:149:ASN:ND2	2.29	0.52
1:M:334:LYS:HE3	1:M:336:GLU:OE2	2.10	0.52
1:S:489:MET:HG2	1:T:112:GLN:HB2	1.91	0.52
1:U:106:PHE:O	1:U:414:TYR:OH	2.25	0.52
1:U:422:PHE:CE2	1:U:431:ILE:HB	2.44	0.52
1:W:112:GLN:HB2	1:X:489:MET:HG2	1.91	0.52
1:W:272:ARG:HB3	1:Y:309:LEU:HD21	1.91	0.52
1:W:406:ILE:HG22	1:Y:428:GLN:HG2	1.91	0.52
1:Y:386:THR:OG1	1:Y:392:ALA:O	2.27	0.52
1:Z:272:ARG:HB3	1:4:309:LEU:HD21	1.91	0.52
1:Z:408:ASP:HA	1:4:426:ASP:HB2	1.92	0.52
1:d:406:ILE:HG22	1:l:428:GLN:HG2	1.91	0.52
1:h:112:GLN:HB2	1:k:489:MET:HG2	1.91	0.52
1:h:334:LYS:HE3	1:h:336:GLU:OE2	2.10	0.52
1:h:511:GLY:HA2	1:i:67:TYR:O	2.09	0.52
1:i:272:ARG:NH2	1:j:301:ALA:O	2.37	0.52
1:i:428:GLN:HG2	1:k:406:ILE:HG22	1.91	0.52
1:j:334:LYS:HE3	1:j:336:GLU:OE2	2.10	0.52
1:n:348:LYS:HB2	1:n:351:GLU:HG2	1.90	0.52
1:o:272:ARG:HB3	1:p:309:LEU:HD21	1.90	0.52
1:o:489:MET:HG2	1:6:112:GLN:HB2	1.91	0.52
1:r:422:PHE:CE2	1:r:431:ILE:HB	2.44	0.52
1:r:454:LYS:HG2	1:r:463:ILE:HD12	1.91	0.52
1:s:106:PHE:O	1:s:414:TYR:OH	2.25	0.52
1:t:454:LYS:HG2	1:t:463:ILE:HD12	1.92	0.52
1:u:272:ARG:HB3	1:v:309:LEU:HD21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:454:LYS:HG2	1:u:463:ILE:HD12	1.92	0.52
1:v:67:TYR:O	1:1:511:GLY:HA2	2.09	0.52
1:v:333:ASP:HA	1:v:368:GLN:OE1	2.09	0.52
1:w:334:LYS:HE3	1:w:336:GLU:OE2	2.10	0.52
1:z:334:LYS:HE3	1:z:336:GLU:OE2	2.10	0.52
1:2:112:GLN:HB2	1:4:489:MET:HG2	1.91	0.52
1:2:511:GLY:HA2	1:3:67:TYR:O	2.09	0.52
1:7:386:THR:OG1	1:7:392:ALA:O	2.27	0.52
1:A:272:ARG:HB3	1:G:309:LEU:HD21	1.90	0.52
1:A:333:ASP:HA	1:A:368:GLN:OE1	2.09	0.52
1:A:386:THR:OG1	1:A:392:ALA:O	2.27	0.52
1:B:272:ARG:HB3	1:J:309:LEU:HD21	1.91	0.52
1:D:67:TYR:O	1:E:511:GLY:HA2	2.09	0.52
1:E:406:ILE:HG22	1:Q:428:GLN:HG2	1.91	0.52
1:G:511:GLY:HA2	1:W:67:TYR:O	2.09	0.52
1:K:408:ASP:HA	1:a:426:ASP:HB2	1.92	0.52
1:K:426:ASP:HB2	1:8:408:ASP:HA	1.92	0.52
1:M:511:GLY:HA2	1:N:67:TYR:O	2.09	0.52
1:N:386:THR:HG22	1:N:388:SER:N	2.23	0.52
1:O:422:PHE:CE2	1:O:431:ILE:HB	2.44	0.52
1:O:428:GLN:HG2	1:n:406:ILE:HG22	1.91	0.52
1:P:334:LYS:HE3	1:P:336:GLU:OE2	2.10	0.52
1:Q:334:LYS:HE3	1:Q:336:GLU:OE2	2.10	0.52
1:R:348:LYS:HB2	1:R:351:GLU:HG2	1.90	0.52
1:R:422:PHE:CE2	1:R:431:ILE:HB	2.44	0.52
1:T:258:GLN:HA	1:T:260:GLN:NE2	2.25	0.52
1:V:164:ARG:HG3	1:X:485:HIS:CG	2.43	0.52
1:V:258:GLN:HA	1:V:260:GLN:NE2	2.25	0.52
1:V:454:LYS:HG2	1:V:463:ILE:HD12	1.92	0.52
1:W:408:ASP:HA	1:Y:426:ASP:HB2	1.92	0.52
1:Z:334:LYS:HE3	1:Z:336:GLU:OE2	2.10	0.52
1:c:386:THR:OG1	1:c:392:ALA:O	2.27	0.52
1:e:149:ASN:ND2	1:h:150:ASP:OD1	2.29	0.52
1:g:333:ASP:HA	1:g:368:GLN:OE1	2.09	0.52
1:l:333:ASP:HA	1:l:368:GLN:OE1	2.09	0.52
1:m:112:GLN:HB2	1:r:489:MET:HG2	1.91	0.52
1:p:258:GLN:HA	1:p:260:GLN:NE2	2.25	0.52
1:q:422:PHE:CE2	1:q:431:ILE:HB	2.44	0.52
1:s:454:LYS:HG2	1:s:463:ILE:HD12	1.92	0.52
1:t:309:LEU:HD21	1:v:272:ARG:HB3	1.91	0.52
1:t:511:GLY:HA2	1:6:67:TYR:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:489:MET:HG2	1:l:112:GLN:HB2	1.91	0.52
1:w:406:ILE:HG22	1:x:428:GLN:HG2	1.91	0.52
1:x:334:LYS:HE3	1:x:336:GLU:OE2	2.10	0.52
1:1:272:ARG:HB3	1:2:309:LEU:HD21	1.91	0.52
1:2:422:PHE:CE2	1:2:431:ILE:HB	2.44	0.52
1:3:422:PHE:CE2	1:3:431:ILE:HB	2.44	0.52
1:3:426:ASP:HB2	1:4:408:ASP:HA	1.92	0.52
1:4:386:THR:OG1	1:4:392:ALA:O	2.27	0.52
1:5:422:PHE:CE2	1:5:431:ILE:HB	2.44	0.52
1:6:258:GLN:HA	1:6:260:GLN:NE2	2.25	0.52
1:6:272:ARG:HB3	1:7:309:LEU:HD21	1.91	0.52
1:6:406:ILE:HG22	1:7:428:GLN:HG2	1.91	0.52
1:6:408:ASP:HA	1:7:426:ASP:HB2	1.92	0.52
1:8:334:LYS:HE3	1:8:336:GLU:OE2	2.10	0.52
1:A:112:GLN:HB2	1:F:489:MET:HG2	1.91	0.52
1:B:112:GLN:HB2	1:I:489:MET:HG2	1.91	0.52
1:C:333:ASP:HA	1:C:368:GLN:OE1	2.09	0.52
1:D:424:GLU:H	1:P:535:ASN:ND2	2.01	0.52
1:E:454:LYS:HG2	1:E:463:ILE:HD12	1.92	0.52
1:F:428:GLN:HG2	1:Q:406:ILE:HG22	1.91	0.52
1:F:511:GLY:HA2	1:G:67:TYR:O	2.09	0.52
1:G:127:HIS:HD2	1:G:237:THR:HG22	1.73	0.52
1:H:511:GLY:HA2	1:I:67:TYR:O	2.10	0.52
1:J:386:THR:OG1	1:J:392:ALA:O	2.27	0.52
1:N:348:LYS:HB2	1:N:351:GLU:HG2	1.90	0.52
1:O:333:ASP:HA	1:O:368:GLN:OE1	2.09	0.52
1:R:426:ASP:HB2	1:U:408:ASP:HA	1.92	0.52
1:S:334:LYS:HE3	1:S:336:GLU:OE2	2.10	0.52
1:S:454:LYS:HG2	1:S:463:ILE:HD12	1.92	0.52
1:U:348:LYS:HB2	1:U:351:GLU:HG2	1.90	0.52
1:V:426:ASP:HB2	1:X:408:ASP:HA	1.92	0.52
1:W:258:GLN:HA	1:W:260:GLN:NE2	2.25	0.52
1:Y:334:LYS:HE3	1:Y:336:GLU:OE2	2.10	0.52
1:a:112:GLN:HB2	1:3:489:MET:HG2	1.91	0.52
1:a:489:MET:HG2	1:3:112:GLN:HB2	1.91	0.52
1:d:35:THR:HG1	1:d:132:ASN:H	1.58	0.52
1:e:386:THR:OG1	1:e:392:ALA:O	2.27	0.52
1:f:333:ASP:HA	1:f:368:GLN:OE1	2.09	0.52
1:f:422:PHE:CE2	1:f:431:ILE:HB	2.44	0.52
1:g:67:TYR:O	1:k:511:GLY:HA2	2.10	0.52
1:g:422:PHE:CE2	1:g:431:ILE:HB	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:348:LYS:HB2	1:i:351:GLU:HG2	1.90	0.52
1:l:422:PHE:CE2	1:l:431:ILE:HB	2.44	0.52
1:m:258:GLN:HA	1:m:260:GLN:NE2	2.25	0.52
1:m:408:ASP:HA	1:n:426:ASP:HB2	1.92	0.52
1:o:408:ASP:HA	1:p:426:ASP:HB2	1.92	0.52
1:o:485:HIS:CG	1:p:164:ARG:HG3	2.43	0.52
1:p:115:VAL:O	1:p:249:ASN:ND2	2.39	0.52
1:p:454:LYS:HG2	1:p:463:ILE:HD12	1.92	0.52
1:q:348:LYS:HB2	1:q:351:GLU:HG2	1.90	0.52
1:r:334:LYS:HE3	1:r:336:GLU:OE2	2.10	0.52
1:s:348:LYS:HB2	1:s:351:GLU:HG2	1.90	0.52
1:t:422:PHE:CE2	1:t:431:ILE:HB	2.44	0.52
1:u:67:TYR:O	1:5:511:GLY:HA2	2.10	0.52
1:u:386:THR:OG1	1:u:392:ALA:O	2.27	0.52
1:w:454:LYS:HG2	1:w:463:ILE:HD12	1.92	0.52
1:x:406:ILE:HG22	1:y:428:GLN:HG2	1.91	0.52
1:2:386:THR:OG1	1:2:392:ALA:O	2.27	0.52
1:B:426:ASP:HB2	1:L:408:ASP:HA	1.92	0.52
1:C:67:TYR:O	1:D:511:GLY:HA2	2.10	0.52
1:C:112:GLN:HB2	1:L:489:MET:HG2	1.91	0.52
1:C:309:LEU:HD21	1:M:272:ARG:HB3	1.90	0.52
1:C:422:PHE:CE2	1:C:431:ILE:HB	2.44	0.52
1:C:426:ASP:HB2	1:M:408:ASP:HA	1.92	0.52
1:D:272:ARG:NH2	1:N:301:ALA:O	2.37	0.52
1:D:408:ASP:HA	1:N:426:ASP:HB2	1.92	0.52
1:E:35:THR:HG1	1:E:132:ASN:H	1.58	0.52
1:F:386:THR:HG22	1:F:388:SER:N	2.23	0.52
1:G:422:PHE:CE2	1:G:431:ILE:HB	2.44	0.52
1:H:272:ARG:HB3	1:W:309:LEU:HD21	1.91	0.52
1:I:258:GLN:HA	1:I:260:GLN:NE2	2.25	0.52
1:Q:258:GLN:HA	1:Q:260:GLN:NE2	2.25	0.52
1:R:67:TYR:O	1:V:511:GLY:HA2	2.09	0.52
1:R:150:ASP:OD1	1:V:149:ASN:ND2	2.29	0.52
1:T:408:ASP:HA	1:d:426:ASP:HB2	1.92	0.52
1:X:115:VAL:O	1:X:249:ASN:ND2	2.39	0.52
1:X:333:ASP:HA	1:X:368:GLN:OE1	2.09	0.52
1:X:386:THR:OG1	1:X:392:ALA:O	2.27	0.52
1:X:454:LYS:HG2	1:X:463:ILE:HD12	1.92	0.52
1:a:260:GLN:CD	1:a:260:GLN:H	2.16	0.52
1:b:258:GLN:HA	1:b:260:GLN:NE2	2.25	0.52
1:b:422:PHE:CE2	1:b:431:ILE:HB	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:334:LYS:HE3	1:d:336:GLU:OE2	2.10	0.52
1:f:258:GLN:HA	1:f:260:GLN:NE2	2.25	0.52
1:g:112:GLN:HB2	1:z:489:MET:HG2	1.91	0.52
1:g:426:ASP:HB2	1:h:408:ASP:HA	1.92	0.52
1:g:428:GLN:HG2	1:h:406:ILE:HG22	1.91	0.52
1:i:309:LEU:HD21	1:k:272:ARG:HB3	1.91	0.52
1:i:426:ASP:HB2	1:k:408:ASP:HA	1.92	0.52
1:j:258:GLN:HA	1:j:260:GLN:NE2	2.25	0.52
1:m:489:MET:HG2	1:r:112:GLN:HB2	1.91	0.52
1:n:35:THR:HG1	1:n:132:ASN:H	1.58	0.52
1:n:334:LYS:HE3	1:n:336:GLU:OE2	2.10	0.52
1:t:67:TYR:O	1:y:511:GLY:HA2	2.09	0.52
1:u:333:ASP:HA	1:u:368:GLN:OE1	2.09	0.52
1:v:112:GLN:HB2	1:y:489:MET:HG2	1.91	0.52
1:x:258:GLN:HA	1:x:260:GLN:NE2	2.25	0.52
1:z:67:TYR:O	1:4:511:GLY:HA2	2.09	0.52
1:z:428:GLN:HG2	1:2:406:ILE:HG22	1.91	0.52
1:2:348:LYS:HB2	1:2:351:GLU:HG2	1.90	0.52
1:3:511:GLY:HA2	1:8:67:TYR:O	2.10	0.52
1:6:485:HIS:CG	1:7:164:ARG:HG3	2.44	0.52
1:7:334:LYS:HE3	1:7:336:GLU:OE2	2.10	0.52
1:C:428:GLN:HG2	1:M:406:ILE:HG22	1.91	0.52
1:D:535:ASN:ND2	1:N:424:GLU:H	2.01	0.52
1:E:258:GLN:HA	1:E:260:GLN:NE2	2.25	0.52
1:E:317:ASP:OD1	1:E:317:ASP:N	2.43	0.52
1:I:386:THR:OG1	1:I:392:ALA:O	2.27	0.52
1:P:258:GLN:HA	1:P:260:GLN:NE2	2.25	0.52
1:R:428:GLN:HG2	1:U:406:ILE:HG22	1.91	0.52
1:S:112:GLN:HB2	1:T:489:MET:HG2	1.91	0.52
1:S:511:GLY:HA2	1:d:67:TYR:O	2.09	0.52
1:V:115:VAL:O	1:V:249:ASN:ND2	2.39	0.52
1:W:485:HIS:CG	1:Y:164:ARG:HG3	2.44	0.52
1:Z:67:TYR:O	1:a:511:GLY:HA2	2.10	0.52
1:a:334:LYS:HE3	1:a:336:GLU:OE2	2.10	0.52
1:b:333:ASP:HA	1:b:368:GLN:OE1	2.09	0.52
1:d:127:HIS:HD2	1:d:237:THR:HG22	1.73	0.52
1:g:309:LEU:HD21	1:h:272:ARG:HB3	1.90	0.52
1:g:386:THR:OG1	1:g:392:ALA:O	2.27	0.52
1:h:489:MET:HG2	1:k:112:GLN:HB2	1.91	0.52
1:j:454:LYS:HG2	1:j:463:ILE:HD12	1.92	0.52
1:n:258:GLN:HA	1:n:260:GLN:NE2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:454:LYS:HG2	1:o:463:ILE:HD12	1.92	0.52
1:p:511:GLY:HA2	1:q:67:TYR:O	2.09	0.52
1:q:426:ASP:HB2	1:s:408:ASP:HA	1.92	0.52
1:q:511:GLY:HA2	1:y:67:TYR:O	2.09	0.52
1:r:408:ASP:HA	1:s:426:ASP:HB2	1.92	0.52
1:t:127:HIS:HD2	1:t:237:THR:HG22	1.73	0.52
1:w:317:ASP:OD1	1:w:317:ASP:N	2.43	0.52
1:1:258:GLN:HA	1:1:260:GLN:NE2	2.25	0.52
1:3:334:LYS:HE3	1:3:336:GLU:OE2	2.10	0.52
1:B:258:GLN:HA	1:B:260:GLN:NE2	2.25	0.52
1:C:258:GLN:HA	1:C:260:GLN:NE2	2.25	0.52
1:D:112:GLN:HB2	1:M:489:MET:HG2	1.91	0.52
1:D:272:ARG:HB3	1:N:309:LEU:HD21	1.91	0.52
1:D:426:ASP:HB2	1:P:408:ASP:HA	1.92	0.52
1:F:67:TYR:O	1:R:511:GLY:HA2	2.09	0.52
1:G:334:LYS:HE3	1:G:336:GLU:OE2	2.10	0.52
1:J:348:LYS:HB2	1:J:351:GLU:HG2	1.90	0.52
1:K:511:GLY:HA2	1:L:67:TYR:O	2.09	0.52
1:M:258:GLN:HA	1:M:260:GLN:NE2	2.25	0.52
1:N:334:LYS:HE3	1:N:336:GLU:OE2	2.10	0.52
1:P:454:LYS:HG2	1:P:463:ILE:HD12	1.92	0.52
1:Q:127:HIS:HD2	1:Q:237:THR:HG22	1.73	0.52
1:R:258:GLN:HA	1:R:260:GLN:NE2	2.25	0.52
1:Y:454:LYS:HG2	1:Y:463:ILE:HD12	1.91	0.52
1:Z:428:GLN:HG2	1:3:406:ILE:HG22	1.91	0.52
1:c:426:ASP:HB2	1:p:408:ASP:HA	1.92	0.52
1:d:258:GLN:HA	1:d:260:GLN:NE2	2.25	0.52
1:d:333:ASP:HA	1:d:368:GLN:OE1	2.09	0.52
1:g:258:GLN:HA	1:g:260:GLN:NE2	2.25	0.52
1:h:422:PHE:CE2	1:h:431:ILE:HB	2.44	0.52
1:i:258:GLN:HA	1:i:260:GLN:NE2	2.25	0.52
1:i:301:ALA:O	1:k:272:ARG:NH2	2.37	0.52
1:m:106:PHE:O	1:m:414:TYR:OH	2.25	0.52
1:n:333:ASP:HA	1:n:368:GLN:OE1	2.09	0.52
1:n:454:LYS:HG2	1:n:463:ILE:HD12	1.92	0.52
1:o:115:VAL:O	1:o:249:ASN:ND2	2.39	0.52
1:o:333:ASP:HA	1:o:368:GLN:OE1	2.09	0.52
1:o:386:THR:OG1	1:o:392:ALA:O	2.27	0.52
1:u:258:GLN:HA	1:u:260:GLN:NE2	2.25	0.52
1:w:258:GLN:HA	1:w:260:GLN:NE2	2.25	0.52
1:w:428:GLN:O	1:y:430:LYS:NZ	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:454:LYS:HG2	1:y:463:ILE:HD12	1.92	0.52
1:z:408:ASP:HA	1:1:426:ASP:HB2	1.92	0.52
1:1:317:ASP:OD1	1:1:317:ASP:N	2.43	0.52
1:5:115:VAL:O	1:5:249:ASN:ND2	2.39	0.52
1:7:454:LYS:HG2	1:7:463:ILE:HD12	1.92	0.52
1:B:317:ASP:OD1	1:B:317:ASP:N	2.43	0.52
1:C:386:THR:OG1	1:C:392:ALA:O	2.27	0.52
1:E:428:GLN:O	1:F:430:LYS:NZ	2.39	0.52
1:I:334:LYS:HE3	1:I:336:GLU:OE2	2.10	0.52
1:J:454:LYS:HG2	1:J:463:ILE:HD12	1.91	0.52
1:K:67:TYR:O	1:7:511:GLY:HA2	2.10	0.52
1:M:422:PHE:CE2	1:M:431:ILE:HB	2.44	0.52
1:N:258:GLN:HA	1:N:260:GLN:NE2	2.25	0.52
1:N:489:MET:HG2	1:O:112:GLN:HB2	1.91	0.52
1:O:258:GLN:HA	1:O:260:GLN:NE2	2.25	0.52
1:S:408:ASP:HA	1:U:426:ASP:HB2	1.92	0.52
1:U:317:ASP:OD1	1:U:317:ASP:N	2.43	0.52
1:V:301:ALA:O	1:X:272:ARG:NH2	2.37	0.52
1:V:408:ASP:HA	1:e:426:ASP:HB2	1.92	0.52
1:W:386:THR:OG1	1:W:392:ALA:O	2.27	0.52
1:Y:511:GLY:HA2	1:4:67:TYR:O	2.10	0.52
1:a:406:ILE:HG22	1:8:428:GLN:HG2	1.91	0.52
1:f:426:ASP:HB2	1:g:408:ASP:HA	1.92	0.52
1:h:258:GLN:HA	1:h:260:GLN:NE2	2.25	0.52
1:i:334:LYS:HE3	1:i:336:GLU:OE2	2.10	0.52
1:i:385:SER:OG	1:j:295:TYR:O	2.18	0.52
1:j:408:ASP:HA	1:k:426:ASP:HB2	1.92	0.52
1:k:150:ASP:OD1	1:w:149:ASN:ND2	2.29	0.52
1:k:258:GLN:HA	1:k:260:GLN:NE2	2.25	0.52
1:l:258:GLN:HA	1:l:260:GLN:NE2	2.25	0.52
1:n:127:HIS:HD2	1:n:237:THR:HG22	1.73	0.52
1:q:258:GLN:HA	1:q:260:GLN:NE2	2.25	0.52
1:q:428:GLN:HG2	1:s:406:ILE:HG22	1.91	0.52
1:s:334:LYS:HE3	1:s:336:GLU:OE2	2.10	0.52
1:t:213:ARG:HD2	1:v:491:SER:HB3	1.90	0.52
1:t:334:LYS:HE3	1:t:336:GLU:OE2	2.10	0.52
1:u:334:LYS:HE3	1:u:336:GLU:OE2	2.10	0.52
1:u:408:ASP:HA	1:v:426:ASP:HB2	1.92	0.52
1:x:127:HIS:HD2	1:x:237:THR:HG22	1.73	0.52
1:2:454:LYS:HG2	1:2:463:ILE:HD12	1.92	0.52
1:5:406:ILE:HG22	1:6:428:GLN:HG2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:386:THR:OG1	1:6:392:ALA:O	2.27	0.52
1:6:422:PHE:CE2	1:6:431:ILE:HB	2.44	0.52
1:A:426:ASP:HB2	1:I:408:ASP:HA	1.92	0.51
1:A:491:SER:HB3	1:G:213:ARG:HD2	1.90	0.51
1:B:115:VAL:O	1:B:249:ASN:ND2	2.39	0.51
1:C:408:ASP:HA	1:b:426:ASP:HB2	1.92	0.51
1:D:258:GLN:HA	1:D:260:GLN:NE2	2.25	0.51
1:F:258:GLN:HA	1:F:260:GLN:NE2	2.25	0.51
1:F:454:LYS:HG2	1:F:463:ILE:HD12	1.92	0.51
1:H:115:VAL:O	1:H:249:ASN:ND2	2.39	0.51
1:H:386:THR:OG1	1:H:392:ALA:O	2.27	0.51
1:N:385:SER:OG	1:P:295:TYR:O	2.18	0.51
1:U:334:LYS:HE3	1:U:336:GLU:OE2	2.10	0.51
1:V:406:ILE:HG22	1:e:428:GLN:HG2	1.91	0.51
1:Z:333:ASP:HA	1:Z:368:GLN:OE1	2.09	0.51
1:b:112:GLN:HB2	1:c:489:MET:HG2	1.91	0.51
1:b:386:THR:OG1	1:b:392:ALA:O	2.27	0.51
1:c:334:LYS:HE3	1:c:336:GLU:OE2	2.10	0.51
1:d:454:LYS:HG2	1:d:463:ILE:HD12	1.92	0.51
1:i:489:MET:HG2	1:l:112:GLN:HB2	1.91	0.51
1:j:535:ASN:ND2	1:k:424:GLU:H	2.01	0.51
1:l:334:LYS:HE3	1:l:336:GLU:OE2	2.10	0.51
1:n:67:TYR:O	1:r:511:GLY:HA2	2.09	0.51
1:o:430:LYS:NZ	1:p:428:GLN:O	2.39	0.51
1:q:309:LEU:HD21	1:s:272:ARG:HB3	1.91	0.51
1:r:406:ILE:HG22	1:s:428:GLN:HG2	1.91	0.51
1:s:317:ASP:OD1	1:s:317:ASP:N	2.43	0.51
1:t:406:ILE:HG22	1:u:428:GLN:HG2	1.91	0.51
1:v:334:LYS:HE3	1:v:336:GLU:OE2	2.10	0.51
1:y:258:GLN:HA	1:y:260:GLN:NE2	2.25	0.51
1:z:258:GLN:HA	1:z:260:GLN:NE2	2.25	0.51
1:A:334:LYS:HE3	1:A:336:GLU:OE2	2.10	0.51
1:B:334:LYS:HE3	1:B:336:GLU:OE2	2.10	0.51
1:E:260:GLN:NE2	1:E:281:PHE:HB3	2.26	0.51
1:F:260:GLN:NE2	1:F:281:PHE:HB3	2.26	0.51
1:L:454:LYS:HG2	1:L:463:ILE:HD12	1.92	0.51
1:N:272:ARG:HB3	1:P:309:LEU:HD21	1.91	0.51
1:O:334:LYS:HE3	1:O:336:GLU:OE2	2.10	0.51
1:R:454:LYS:HG2	1:R:463:ILE:HD12	1.92	0.51
1:T:106:PHE:O	1:T:414:TYR:OH	2.25	0.51
1:W:454:LYS:HG2	1:W:463:ILE:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:317:ASP:OD1	1:Y:317:ASP:N	2.43	0.51
1:c:258:GLN:HA	1:c:260:GLN:NE2	2.25	0.51
1:c:428:GLN:HG2	1:p:406:ILE:HG22	1.91	0.51
1:e:489:MET:HG2	1:f:112:GLN:HB2	1.91	0.51
1:f:386:THR:OG1	1:f:392:ALA:O	2.27	0.51
1:n:150:ASP:OD1	1:r:149:ASN:ND2	2.29	0.51
1:q:454:LYS:HG2	1:q:463:ILE:HD12	1.92	0.51
1:u:348:LYS:HB2	1:u:351:GLU:HG2	1.90	0.51
1:w:260:GLN:NE2	1:w:281:PHE:HB3	2.26	0.51
1:6:334:LYS:HE3	1:6:336:GLU:OE2	2.10	0.51
1:6:454:LYS:HG2	1:6:463:ILE:HD12	1.92	0.51
1:8:333:ASP:HA	1:8:368:GLN:OE1	2.09	0.51
1:A:106:PHE:O	1:A:414:TYR:OH	2.25	0.51
1:A:150:ASP:OD1	1:B:149:ASN:ND2	2.31	0.51
1:A:489:MET:HG2	1:F:112:GLN:HB2	1.91	0.51
1:B:386:THR:OG1	1:B:392:ALA:O	2.27	0.51
1:G:406:ILE:HG22	1:I:428:GLN:HG2	1.91	0.51
1:H:406:ILE:HG22	1:W:428:GLN:HG2	1.91	0.51
1:I:348:LYS:HB2	1:I:351:GLU:HG2	1.90	0.51
1:J:334:LYS:HE3	1:J:336:GLU:OE2	2.10	0.51
1:K:260:GLN:NE2	1:K:281:PHE:HB3	2.26	0.51
1:L:258:GLN:HA	1:L:260:GLN:NE2	2.25	0.51
1:P:260:GLN:NE2	1:P:281:PHE:HB3	2.26	0.51
1:Q:260:GLN:NE2	1:Q:281:PHE:HB3	2.26	0.51
1:R:309:LEU:HD21	1:U:272:ARG:HB3	1.91	0.51
1:S:406:ILE:HG22	1:U:428:GLN:HG2	1.91	0.51
1:T:511:GLY:HA2	1:U:67:TYR:O	2.09	0.51
1:W:334:LYS:HE3	1:W:336:GLU:OE2	2.10	0.51
1:W:422:PHE:CE2	1:W:431:ILE:HB	2.44	0.51
1:Z:258:GLN:HA	1:Z:260:GLN:NE2	2.25	0.51
1:a:258:GLN:HA	1:a:260:GLN:NE2	2.25	0.51
1:e:334:LYS:HE3	1:e:336:GLU:OE2	2.10	0.51
1:f:408:ASP:HA	1:h:426:ASP:HB2	1.92	0.51
1:g:35:THR:HG1	1:g:132:ASN:H	1.58	0.51
1:g:317:ASP:OD1	1:g:317:ASP:N	2.43	0.51
1:h:386:THR:OG1	1:h:392:ALA:O	2.27	0.51
1:j:260:GLN:NE2	1:j:281:PHE:HB3	2.26	0.51
1:m:127:HIS:HD2	1:m:237:THR:HG22	1.73	0.51
1:m:149:ASN:ND2	1:s:150:ASP:OD1	2.29	0.51
1:p:317:ASP:OD1	1:p:317:ASP:N	2.43	0.51
1:q:149:ASN:ND2	1:y:150:ASP:OD1	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:106:PHE:O	1:v:414:TYR:OH	2.25	0.51
1:x:260:GLN:NE2	1:x:281:PHE:HB3	2.26	0.51
1:y:260:GLN:NE2	1:y:281:PHE:HB3	2.26	0.51
1:z:454:LYS:HG2	1:z:463:ILE:HD12	1.92	0.51
1:1:115:VAL:O	1:1:249:ASN:ND2	2.39	0.51
1:2:334:LYS:HE3	1:2:336:GLU:OE2	2.10	0.51
1:4:260:GLN:NE2	1:4:281:PHE:HB3	2.26	0.51
1:5:386:THR:OG1	1:5:392:ALA:O	2.27	0.51
1:7:317:ASP:OD1	1:7:317:ASP:N	2.43	0.51
1:8:258:GLN:HA	1:8:260:GLN:NE2	2.25	0.51
1:C:317:ASP:OD1	1:C:317:ASP:N	2.43	0.51
1:D:150:ASP:OD1	1:E:149:ASN:ND2	2.29	0.51
1:E:426:ASP:HB2	1:F:408:ASP:HA	1.92	0.51
1:F:115:VAL:O	1:F:249:ASN:ND2	2.39	0.51
1:M:386:THR:OG1	1:M:392:ALA:O	2.27	0.51
1:M:426:ASP:HB2	1:b:408:ASP:HA	1.92	0.51
1:P:317:ASP:OD1	1:P:317:ASP:N	2.43	0.51
1:Q:115:VAL:O	1:Q:249:ASN:ND2	2.39	0.51
1:S:258:GLN:HA	1:S:260:GLN:NE2	2.25	0.51
1:T:127:HIS:HD2	1:T:237:THR:HG22	1.73	0.51
1:T:260:GLN:NE2	1:T:281:PHE:HB3	2.26	0.51
1:V:317:ASP:OD1	1:V:317:ASP:N	2.43	0.51
1:V:428:GLN:O	1:X:430:LYS:NZ	2.39	0.51
1:c:317:ASP:OD1	1:c:317:ASP:N	2.43	0.51
1:d:408:ASP:HA	1:l:426:ASP:HB2	1.92	0.51
1:j:317:ASP:OD1	1:j:317:ASP:N	2.43	0.51
1:m:260:GLN:NE2	1:m:281:PHE:HB3	2.26	0.51
1:m:511:GLY:HA2	1:s:67:TYR:O	2.09	0.51
1:n:115:VAL:O	1:n:249:ASN:ND2	2.39	0.51
1:v:258:GLN:HA	1:v:260:GLN:NE2	2.25	0.51
1:w:426:ASP:HB2	1:y:408:ASP:HA	1.92	0.51
1:y:115:VAL:O	1:y:249:ASN:ND2	2.39	0.51
1:z:272:ARG:HB3	1:1:309:LEU:HD21	1.91	0.51
1:1:334:LYS:HE3	1:1:336:GLU:OE2	2.10	0.51
1:1:386:THR:OG1	1:1:392:ALA:O	2.27	0.51
1:3:258:GLN:HA	1:3:260:GLN:NE2	2.25	0.51
1:4:454:LYS:HG2	1:4:463:ILE:HD12	1.92	0.51
1:5:309:LEU:HD21	1:7:272:ARG:HB3	1.91	0.51
1:A:258:GLN:HA	1:A:260:GLN:NE2	2.25	0.51
1:H:309:LEU:HD21	1:Y:272:ARG:HB3	1.91	0.51
1:K:454:LYS:HG2	1:K:463:ILE:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:408:ASP:HA	1:m:426:ASP:HB2	1.92	0.51
1:O:426:ASP:HB2	1:n:408:ASP:HA	1.92	0.51
1:Q:386:THR:OG1	1:Q:392:ALA:O	2.27	0.51
1:T:386:THR:OG1	1:T:392:ALA:O	2.27	0.51
1:T:426:ASP:HB2	1:l:408:ASP:HA	1.92	0.51
1:V:424:GLU:H	1:X:535:ASN:ND2	2.01	0.51
1:X:317:ASP:OD1	1:X:317:ASP:N	2.43	0.51
1:Z:426:ASP:HB2	1:3:408:ASP:HA	1.92	0.51
1:e:258:GLN:HA	1:e:260:GLN:NE2	2.25	0.51
1:e:317:ASP:OD1	1:e:317:ASP:N	2.43	0.51
1:f:301:ALA:O	1:g:272:ARG:NH2	2.37	0.51
1:f:317:ASP:OD1	1:f:317:ASP:N	2.43	0.51
1:i:272:ARG:HB3	1:j:309:LEU:HD21	1.91	0.51
1:o:317:ASP:OD1	1:o:317:ASP:N	2.43	0.51
1:r:258:GLN:HA	1:r:260:GLN:NE2	2.25	0.51
1:v:489:MET:HG2	1:y:112:GLN:HB2	1.91	0.51
1:5:408:ASP:HA	1:6:426:ASP:HB2	1.91	0.51
1:8:106:PHE:O	1:8:414:TYR:OH	2.25	0.51
1:B:260:GLN:NE2	1:B:281:PHE:HB3	2.26	0.51
1:B:309:LEU:HD21	1:L:272:ARG:HB3	1.91	0.51
1:C:334:LYS:HE3	1:C:336:GLU:OE2	2.10	0.51
1:D:334:LYS:HE3	1:D:336:GLU:OE2	2.10	0.51
1:F:150:ASP:OD1	1:R:149:ASN:ND2	2.29	0.51
1:G:260:GLN:NE2	1:G:281:PHE:HB3	2.26	0.51
1:K:334:LYS:HE3	1:K:336:GLU:OE2	2.10	0.51
1:L:386:THR:OG1	1:L:392:ALA:O	2.27	0.51
1:S:149:ASN:ND2	1:d:150:ASP:OD1	2.29	0.51
1:T:317:ASP:OD1	1:T:317:ASP:N	2.43	0.51
1:X:426:ASP:HB2	1:e:408:ASP:HA	1.92	0.51
1:a:408:ASP:HA	1:8:426:ASP:HB2	1.92	0.51
1:b:106:PHE:O	1:b:414:TYR:OH	2.25	0.51
1:c:260:GLN:NE2	1:c:281:PHE:HB3	2.26	0.51
1:c:408:ASP:HA	1:o:426:ASP:HB2	1.92	0.51
1:d:260:GLN:NE2	1:d:281:PHE:HB3	2.26	0.51
1:g:334:LYS:HE3	1:g:336:GLU:OE2	2.10	0.51
1:m:317:ASP:OD1	1:m:317:ASP:N	2.43	0.51
1:q:272:ARG:NH2	1:r:301:ALA:O	2.37	0.51
1:t:260:GLN:NE2	1:t:281:PHE:HB3	2.26	0.51
1:w:386:THR:OG1	1:w:392:ALA:O	2.27	0.51
1:x:115:VAL:O	1:x:249:ASN:ND2	2.39	0.51
1:x:386:THR:OG1	1:x:392:ALA:O	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:106:PHE:O	1:1:414:TYR:OH	2.25	0.51
1:2:149:ASN:ND2	1:3:150:ASP:OD1	2.29	0.51
1:C:272:ARG:NH2	1:b:301:ALA:O	2.37	0.51
1:G:258:GLN:HA	1:G:260:GLN:NE2	2.25	0.51
1:J:258:GLN:HA	1:J:260:GLN:NE2	2.25	0.51
1:M:260:GLN:NE2	1:M:281:PHE:HB3	2.26	0.51
1:M:317:ASP:OD1	1:M:317:ASP:N	2.43	0.51
1:O:454:LYS:HG2	1:O:463:ILE:HD12	1.92	0.51
1:V:260:GLN:NE2	1:V:281:PHE:HB3	2.26	0.51
1:X:258:GLN:HA	1:X:260:GLN:NE2	2.25	0.51
1:a:260:GLN:NE2	1:a:281:PHE:HB3	2.26	0.51
1:c:301:ALA:O	1:p:272:ARG:NH2	2.37	0.51
1:e:260:GLN:NE2	1:e:281:PHE:HB3	2.26	0.51
1:h:260:GLN:NE2	1:h:281:PHE:HB3	2.26	0.51
1:l:454:LYS:HG2	1:l:463:ILE:HD12	1.92	0.51
1:m:334:LYS:HE3	1:m:336:GLU:OE2	2.10	0.51
1:m:386:THR:OG1	1:m:392:ALA:O	2.27	0.51
1:m:454:LYS:HG2	1:m:463:ILE:HD12	1.92	0.51
1:n:260:GLN:NE2	1:n:281:PHE:HB3	2.26	0.51
1:o:258:GLN:HA	1:o:260:GLN:NE2	2.25	0.51
1:o:334:LYS:HE3	1:o:336:GLU:OE2	2.10	0.51
1:o:535:ASN:ND2	1:p:424:GLU:H	2.01	0.51
1:p:260:GLN:NE2	1:p:281:PHE:HB3	2.26	0.51
1:t:258:GLN:HA	1:t:260:GLN:NE2	2.25	0.51
1:2:258:GLN:HA	1:2:260:GLN:NE2	2.25	0.51
1:3:115:VAL:O	1:3:249:ASN:ND2	2.39	0.51
1:4:334:LYS:HE3	1:4:336:GLU:OE2	2.10	0.51
1:5:272:ARG:HB3	1:6:309:LEU:HD21	1.92	0.51
1:5:334:LYS:HE3	1:5:336:GLU:OE2	2.10	0.51
1:A:260:GLN:NE2	1:A:281:PHE:HB3	2.26	0.51
1:B:408:ASP:HA	1:J:426:ASP:HB2	1.91	0.51
1:E:386:THR:OG1	1:E:392:ALA:O	2.27	0.51
1:H:260:GLN:NE2	1:H:281:PHE:HB3	2.26	0.51
1:H:408:ASP:HA	1:W:426:ASP:HB2	1.92	0.51
1:J:149:ASN:ND2	1:a:150:ASP:OD1	2.29	0.51
1:O:149:ASN:OD1	1:P:454:LYS:NZ	2.44	0.51
1:O:260:GLN:NE2	1:O:281:PHE:HB3	2.26	0.51
1:R:260:GLN:NE2	1:R:281:PHE:HB3	2.26	0.51
1:R:334:LYS:HE3	1:R:336:GLU:OE2	2.10	0.51
1:R:408:ASP:HA	1:S:426:ASP:HB2	1.92	0.51
1:T:149:ASN:OD1	1:U:454:LYS:NZ	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:334:LYS:HE3	1:T:336:GLU:OE2	2.10	0.51
1:W:35:THR:HG1	1:W:132:ASN:H	1.59	0.51
1:W:260:GLN:NE2	1:W:281:PHE:HB3	2.26	0.51
1:Z:106:PHE:O	1:Z:414:TYR:OH	2.25	0.51
1:b:334:LYS:HE3	1:b:336:GLU:OE2	2.10	0.51
1:d:115:VAL:O	1:d:249:ASN:ND2	2.39	0.51
1:f:106:PHE:O	1:f:414:TYR:OH	2.25	0.51
1:g:260:GLN:NE2	1:g:281:PHE:HB3	2.26	0.51
1:h:317:ASP:OD1	1:h:317:ASP:N	2.43	0.51
1:j:454:LYS:NZ	1:l:149:ASN:OD1	2.44	0.51
1:k:334:LYS:HE3	1:k:336:GLU:OE2	2.10	0.51
1:q:386:THR:OG1	1:q:392:ALA:O	2.27	0.51
1:r:35:THR:HG1	1:r:132:ASN:H	1.59	0.51
1:v:260:GLN:NE2	1:v:281:PHE:HB3	2.26	0.51
1:y:334:LYS:HE3	1:y:336:GLU:OE2	2.10	0.51
1:z:386:THR:OG1	1:z:392:ALA:O	2.27	0.51
1:1:260:GLN:NE2	1:1:281:PHE:HB3	2.26	0.51
1:2:115:VAL:O	1:2:249:ASN:ND2	2.39	0.51
1:3:260:GLN:NE2	1:3:281:PHE:HB3	2.26	0.51
1:C:260:GLN:NE2	1:C:281:PHE:HB3	2.26	0.51
1:D:35:THR:HG1	1:D:132:ASN:H	1.59	0.51
1:D:260:GLN:NE2	1:D:281:PHE:HB3	2.26	0.51
1:F:334:LYS:HE3	1:F:336:GLU:OE2	2.10	0.51
1:H:334:LYS:HE3	1:H:336:GLU:OE2	2.10	0.51
1:K:317:ASP:OD1	1:K:317:ASP:N	2.43	0.51
1:R:272:ARG:NH2	1:S:301:ALA:O	2.37	0.51
1:T:454:LYS:HG2	1:T:463:ILE:HD12	1.92	0.51
1:U:35:THR:HG1	1:U:132:ASN:H	1.59	0.51
1:U:258:GLN:HA	1:U:260:GLN:NE2	2.25	0.51
1:W:503:GLY:O	1:W:514:GLN:HG3	2.11	0.51
1:X:35:THR:HG1	1:X:132:ASN:H	1.59	0.51
1:Z:454:LYS:HG2	1:Z:463:ILE:HD12	1.92	0.51
1:j:106:PHE:O	1:j:414:TYR:OH	2.25	0.51
1:l:260:GLN:NE2	1:l:281:PHE:HB3	2.26	0.51
1:o:35:THR:HG1	1:o:132:ASN:H	1.58	0.51
1:q:260:GLN:NE2	1:q:281:PHE:HB3	2.26	0.51
1:q:317:ASP:OD1	1:q:317:ASP:N	2.43	0.51
1:q:408:ASP:HA	1:r:426:ASP:HB2	1.92	0.51
1:1:503:GLY:O	1:1:514:GLN:HG3	2.11	0.51
1:5:260:GLN:NE2	1:5:281:PHE:HB3	2.26	0.51
1:6:260:GLN:NE2	1:6:281:PHE:HB3	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:454:LYS:HG2	1:8:463:ILE:HD12	1.92	0.51
1:A:503:GLY:O	1:A:514:GLN:HG3	2.11	0.51
1:B:106:PHE:O	1:B:414:TYR:OH	2.25	0.51
1:B:503:GLY:O	1:B:514:GLN:HG3	2.11	0.51
1:C:503:GLY:O	1:C:514:GLN:HG3	2.11	0.51
1:D:503:GLY:O	1:D:514:GLN:HG3	2.11	0.51
1:I:106:PHE:O	1:I:414:TYR:OH	2.25	0.51
1:K:115:VAL:O	1:K:249:ASN:ND2	2.39	0.51
1:K:503:GLY:O	1:K:514:GLN:HG3	2.11	0.51
1:M:503:GLY:O	1:M:514:GLN:HG3	2.11	0.51
1:O:454:LYS:NZ	1:d:149:ASN:OD1	2.44	0.51
1:R:317:ASP:OD1	1:R:317:ASP:N	2.43	0.51
1:R:386:THR:OG1	1:R:392:ALA:O	2.27	0.51
1:R:503:GLY:O	1:R:514:GLN:HG3	2.11	0.51
1:S:35:THR:HG1	1:S:132:ASN:H	1.59	0.51
1:T:115:VAL:O	1:T:249:ASN:ND2	2.39	0.51
1:X:334:LYS:HE3	1:X:336:GLU:OE2	2.10	0.51
1:a:115:VAL:O	1:a:249:ASN:ND2	2.39	0.51
1:c:454:LYS:HG2	1:c:463:ILE:HD12	1.92	0.51
1:c:503:GLY:O	1:c:514:GLN:HG3	2.11	0.51
1:d:386:THR:OG1	1:d:392:ALA:O	2.27	0.51
1:e:454:LYS:HG2	1:e:463:ILE:HD12	1.92	0.51
1:f:334:LYS:HE3	1:f:336:GLU:OE2	2.10	0.51
1:g:115:VAL:O	1:g:249:ASN:ND2	2.39	0.51
1:g:503:GLY:O	1:g:514:GLN:HG3	2.11	0.51
1:k:260:GLN:NE2	1:k:281:PHE:HB3	2.26	0.51
1:k:503:GLY:O	1:k:514:GLN:HG3	2.11	0.51
1:l:454:LYS:NZ	1:n:149:ASN:OD1	2.44	0.51
1:q:334:LYS:HE3	1:q:336:GLU:OE2	2.10	0.51
1:q:503:GLY:O	1:q:514:GLN:HG3	2.11	0.51
1:r:503:GLY:O	1:r:514:GLN:HG3	2.11	0.51
1:s:35:THR:HG1	1:s:132:ASN:H	1.59	0.51
1:s:258:GLN:HA	1:s:260:GLN:NE2	2.25	0.51
1:v:503:GLY:O	1:v:514:GLN:HG3	2.11	0.51
1:4:317:ASP:OD1	1:4:317:ASP:N	2.43	0.51
1:4:503:GLY:O	1:4:514:GLN:HG3	2.11	0.51
1:6:503:GLY:O	1:6:514:GLN:HG3	2.11	0.51
1:7:258:GLN:HA	1:7:260:GLN:NE2	2.25	0.51
1:E:408:ASP:HA	1:Q:426:ASP:HB2	1.92	0.50
1:J:115:VAL:O	1:J:249:ASN:ND2	2.39	0.50
1:L:106:PHE:O	1:L:414:TYR:OH	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:282:CYS:O	1:P:320:PRO:HD3	2.12	0.50
1:S:386:THR:OG1	1:S:392:ALA:O	2.27	0.50
1:S:503:GLY:O	1:S:514:GLN:HG3	2.11	0.50
1:V:272:ARG:NH2	1:e:301:ALA:O	2.37	0.50
1:Y:258:GLN:HA	1:Y:260:GLN:NE2	2.25	0.50
1:Y:260:GLN:NE2	1:Y:281:PHE:HB3	2.26	0.50
1:Y:503:GLY:O	1:Y:514:GLN:HG3	2.11	0.50
1:Z:260:GLN:NE2	1:Z:281:PHE:HB3	2.26	0.50
1:e:503:GLY:O	1:e:514:GLN:HG3	2.12	0.50
1:h:503:GLY:O	1:h:514:GLN:HG3	2.11	0.50
1:i:282:CYS:O	1:j:320:PRO:HD3	2.12	0.50
1:q:106:PHE:O	1:q:414:TYR:OH	2.25	0.50
1:r:260:GLN:NE2	1:r:281:PHE:HB3	2.26	0.50
1:w:408:ASP:HA	1:x:426:ASP:HB2	1.92	0.50
1:z:426:ASP:HB2	1:2:408:ASP:HA	1.92	0.50
1:7:503:GLY:O	1:7:514:GLN:HG3	2.11	0.50
1:8:260:GLN:NE2	1:8:281:PHE:HB3	2.26	0.50
1:C:115:VAL:O	1:C:249:ASN:ND2	2.39	0.50
1:H:35:THR:HG1	1:H:132:ASN:H	1.58	0.50
1:H:258:GLN:HA	1:H:260:GLN:NE2	2.25	0.50
1:J:106:PHE:O	1:J:414:TYR:OH	2.25	0.50
1:J:408:ASP:HA	1:L:426:ASP:HB2	1.92	0.50
1:K:258:GLN:HA	1:K:260:GLN:NE2	2.25	0.50
1:L:260:GLN:NE2	1:L:281:PHE:HB3	2.26	0.50
1:L:384:MET:HE1	1:L:395:PRO:HD3	1.94	0.50
1:P:106:PHE:O	1:P:414:TYR:OH	2.25	0.50
1:P:511:GLY:HA2	1:Q:67:TYR:O	2.10	0.50
1:V:503:GLY:O	1:V:514:GLN:HG3	2.11	0.50
1:V:535:ASN:ND2	1:e:424:GLU:H	2.01	0.50
1:Z:346:LYS:HA	1:Z:514:GLN:HA	1.94	0.50
1:c:424:GLU:H	1:p:535:ASN:ND2	2.01	0.50
1:j:511:GLY:HA2	1:x:67:TYR:O	2.10	0.50
1:m:115:VAL:O	1:m:249:ASN:ND2	2.39	0.50
1:n:317:ASP:OD1	1:n:317:ASP:N	2.43	0.50
1:n:386:THR:OG1	1:n:392:ALA:O	2.27	0.50
1:p:503:GLY:O	1:p:514:GLN:HG3	2.11	0.50
1:r:386:THR:OG1	1:r:392:ALA:O	2.27	0.50
1:x:408:ASP:HA	1:y:426:ASP:HB2	1.92	0.50
1:z:260:GLN:NE2	1:z:281:PHE:HB3	2.26	0.50
1:z:384:MET:HE1	1:z:395:PRO:HD3	1.94	0.50
1:2:106:PHE:O	1:2:414:TYR:OH	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:346:LYS:HA	1:C:514:GLN:HA	1.94	0.50
1:E:115:VAL:O	1:E:249:ASN:ND2	2.39	0.50
1:G:408:ASP:HA	1:I:426:ASP:HB2	1.92	0.50
1:K:85:THR:CG2	1:8:281:PHE:H	2.24	0.50
1:O:503:GLY:O	1:O:514:GLN:HG3	2.11	0.50
1:Q:503:GLY:O	1:Q:514:GLN:HG3	2.11	0.50
1:S:260:GLN:NE2	1:S:281:PHE:HB3	2.26	0.50
1:S:281:PHE:H	1:U:85:THR:CG2	2.25	0.50
1:U:384:MET:HE1	1:U:395:PRO:HD3	1.94	0.50
1:V:334:LYS:HE3	1:V:336:GLU:OE2	2.10	0.50
1:d:317:ASP:OD1	1:d:317:ASP:N	2.43	0.50
1:l:115:VAL:O	1:l:249:ASN:ND2	2.39	0.50
1:l:386:THR:OG1	1:l:392:ALA:O	2.27	0.50
1:s:384:MET:HE1	1:s:395:PRO:HD3	1.94	0.50
1:t:149:ASN:ND2	1:6:150:ASP:OD1	2.29	0.50
1:t:408:ASP:HA	1:u:426:ASP:HB2	1.92	0.50
1:u:106:PHE:O	1:u:414:TYR:OH	2.25	0.50
1:4:115:VAL:O	1:4:249:ASN:ND2	2.39	0.50
1:5:503:GLY:O	1:5:514:GLN:HG3	2.11	0.50
1:7:260:GLN:NE2	1:7:281:PHE:HB3	2.26	0.50
1:E:424:GLU:H	1:F:535:ASN:ND2	2.01	0.50
1:G:384:MET:HE1	1:G:395:PRO:HD3	1.94	0.50
1:J:260:GLN:NE2	1:J:281:PHE:HB3	2.26	0.50
1:J:503:GLY:O	1:J:514:GLN:HG3	2.11	0.50
1:J:535:ASN:ND2	1:L:424:GLU:H	2.01	0.50
1:K:281:PHE:H	1:a:85:THR:CG2	2.25	0.50
1:O:386:THR:OG1	1:O:392:ALA:O	2.27	0.50
1:V:281:PHE:H	1:e:85:THR:CG2	2.25	0.50
1:X:503:GLY:O	1:X:514:GLN:HG3	2.11	0.50
1:Z:281:PHE:H	1:4:85:THR:CG2	2.24	0.50
1:c:85:THR:CG2	1:p:281:PHE:H	2.25	0.50
1:f:503:GLY:O	1:f:514:GLN:HG3	2.11	0.50
1:k:115:VAL:O	1:k:249:ASN:ND2	2.39	0.50
1:l:503:GLY:O	1:l:514:GLN:HG3	2.11	0.50
1:o:503:GLY:O	1:o:514:GLN:HG3	2.11	0.50
1:p:334:LYS:HE3	1:p:336:GLU:OE2	2.10	0.50
1:r:281:PHE:H	1:s:85:THR:CG2	2.25	0.50
1:s:260:GLN:NE2	1:s:281:PHE:HB3	2.26	0.50
1:t:384:MET:HE1	1:t:395:PRO:HD3	1.94	0.50
1:v:384:MET:HE1	1:v:395:PRO:HD3	1.94	0.50
1:w:115:VAL:O	1:w:249:ASN:ND2	2.39	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:503:GLY:O	1:x:514:GLN:HG3	2.11	0.50
1:1:408:ASP:HA	1:2:426:ASP:HB2	1.92	0.50
1:2:503:GLY:O	1:2:514:GLN:HG3	2.11	0.50
1:4:258:GLN:HA	1:4:260:GLN:NE2	2.25	0.50
1:5:258:GLN:HA	1:5:260:GLN:NE2	2.25	0.50
1:8:346:LYS:HA	1:8:514:GLN:HA	1.94	0.50
1:A:85:THR:CG2	1:I:281:PHE:H	2.25	0.50
1:A:384:MET:HE1	1:A:395:PRO:HD3	1.94	0.50
1:B:282:CYS:O	1:J:320:PRO:HD3	2.12	0.50
1:B:301:ALA:O	1:L:272:ARG:NH2	2.36	0.50
1:C:485:HIS:CB	1:b:164:ARG:HG3	2.42	0.50
1:D:115:VAL:O	1:D:249:ASN:ND2	2.39	0.50
1:F:193:MET:HE3	1:Q:258:GLN:O	2.12	0.50
1:O:115:VAL:O	1:O:249:ASN:ND2	2.39	0.50
1:P:503:GLY:O	1:P:514:GLN:HG3	2.12	0.50
1:R:281:PHE:H	1:S:85:THR:CG2	2.25	0.50
1:T:85:THR:CG2	1:l:281:PHE:H	2.24	0.50
1:U:260:GLN:NE2	1:U:281:PHE:HB3	2.26	0.50
1:U:503:GLY:O	1:U:514:GLN:HG3	2.11	0.50
1:Z:85:THR:CG2	1:3:281:PHE:H	2.25	0.50
1:a:281:PHE:H	1:8:85:THR:CG2	2.25	0.50
1:b:35:THR:HG1	1:b:132:ASN:H	1.58	0.50
1:b:503:GLY:O	1:b:514:GLN:HG3	2.11	0.50
1:f:164:ARG:HG3	1:g:485:HIS:CB	2.42	0.50
1:f:260:GLN:NE2	1:f:281:PHE:HB3	2.26	0.50
1:f:384:MET:HE1	1:f:395:PRO:HD3	1.94	0.50
1:g:106:PHE:O	1:g:414:TYR:OH	2.25	0.50
1:g:346:LYS:HA	1:g:514:GLN:HA	1.94	0.50
1:i:115:VAL:O	1:i:249:ASN:ND2	2.39	0.50
1:i:260:GLN:NE2	1:i:281:PHE:HB3	2.26	0.50
1:l:384:MET:HE1	1:l:395:PRO:HD3	1.94	0.50
1:n:503:GLY:O	1:n:514:GLN:HG3	2.11	0.50
1:q:193:MET:HE3	1:s:258:GLN:O	2.12	0.50
1:q:281:PHE:H	1:r:85:THR:CG2	2.25	0.50
1:t:150:ASP:OD1	1:y:149:ASN:ND2	2.29	0.50
1:u:35:THR:HG1	1:u:132:ASN:H	1.58	0.50
1:u:281:PHE:H	1:v:85:THR:CG2	2.25	0.50
1:z:106:PHE:O	1:z:414:TYR:OH	2.25	0.50
1:3:317:ASP:OD1	1:3:317:ASP:N	2.43	0.50
1:A:454:LYS:HG2	1:A:463:ILE:HD12	1.92	0.50
1:B:164:ARG:HG3	1:L:485:HIS:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:346:LYS:HA	1:B:514:GLN:HA	1.94	0.50
1:C:193:MET:HE3	1:M:258:GLN:O	2.12	0.50
1:F:426:ASP:HB2	1:Q:408:ASP:HA	1.92	0.50
1:H:320:PRO:HD3	1:Y:282:CYS:O	2.12	0.50
1:H:503:GLY:O	1:H:514:GLN:HG3	2.12	0.50
1:M:346:LYS:HA	1:M:514:GLN:HA	1.94	0.50
1:N:115:VAL:O	1:N:249:ASN:ND2	2.39	0.50
1:N:260:GLN:NE2	1:N:281:PHE:HB3	2.26	0.50
1:N:346:LYS:HA	1:N:514:GLN:HA	1.94	0.50
1:O:164:ARG:HG3	1:n:485:HIS:CB	2.42	0.50
1:O:281:PHE:H	1:m:85:THR:CG2	2.24	0.50
1:O:384:MET:HE1	1:O:395:PRO:HD3	1.94	0.50
1:R:193:MET:HE3	1:U:258:GLN:O	2.12	0.50
1:V:384:MET:HE1	1:V:395:PRO:HD3	1.94	0.50
1:a:317:ASP:OD1	1:a:317:ASP:N	2.43	0.50
1:b:384:MET:HE1	1:b:395:PRO:HD3	1.94	0.50
1:d:485:HIS:CB	1:l:164:ARG:HG3	2.42	0.50
1:d:503:GLY:O	1:d:514:GLN:HG3	2.11	0.50
1:g:193:MET:HE3	1:h:258:GLN:O	2.12	0.50
1:i:346:LYS:HA	1:i:514:GLN:HA	1.94	0.50
1:o:384:MET:HE1	1:o:395:PRO:HD3	1.94	0.50
1:p:384:MET:HE1	1:p:395:PRO:HD3	1.94	0.50
1:s:503:GLY:O	1:s:514:GLN:HG3	2.11	0.50
1:t:258:GLN:O	1:u:193:MET:HE3	2.12	0.50
1:t:281:PHE:H	1:u:85:THR:CG2	2.24	0.50
1:x:258:GLN:O	1:y:193:MET:HE3	2.12	0.50
1:z:85:THR:CG2	1:2:281:PHE:H	2.25	0.50
1:z:346:LYS:HA	1:z:514:GLN:HA	1.94	0.50
1:z:424:GLU:H	1:2:535:ASN:ND2	2.01	0.50
1:1:346:LYS:HA	1:1:514:GLN:HA	1.94	0.50
1:6:346:LYS:HA	1:6:514:GLN:HA	1.94	0.50
1:7:115:VAL:O	1:7:249:ASN:ND2	2.39	0.50
1:A:115:VAL:O	1:A:249:ASN:ND2	2.39	0.50
1:B:485:HIS:CB	1:J:164:ARG:HG3	2.42	0.50
1:C:35:THR:HG1	1:C:132:ASN:H	1.58	0.50
1:D:346:LYS:HA	1:D:514:GLN:HA	1.94	0.50
1:E:193:MET:HE3	1:F:258:GLN:O	2.12	0.50
1:G:258:GLN:O	1:I:193:MET:HE3	2.12	0.50
1:I:384:MET:HE1	1:I:395:PRO:HD3	1.94	0.50
1:J:281:PHE:H	1:L:85:THR:CG2	2.25	0.50
1:K:193:MET:HE3	1:8:258:GLN:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:115:VAL:O	1:L:249:ASN:ND2	2.39	0.50
1:Q:149:ASN:OD1	1:S:454:LYS:NZ	2.44	0.50
1:U:346:LYS:HA	1:U:514:GLN:HA	1.94	0.50
1:W:346:LYS:HA	1:W:514:GLN:HA	1.94	0.50
1:X:260:GLN:NE2	1:X:281:PHE:HB3	2.26	0.50
1:X:384:MET:HE1	1:X:395:PRO:HD3	1.94	0.50
1:Y:115:VAL:O	1:Y:249:ASN:ND2	2.39	0.50
1:b:260:GLN:NE2	1:b:281:PHE:HB3	2.26	0.50
1:g:454:LYS:HG2	1:g:463:ILE:HD12	1.92	0.50
1:h:346:LYS:HA	1:h:514:GLN:HA	1.94	0.50
1:j:503:GLY:O	1:j:514:GLN:HG3	2.12	0.50
1:k:346:LYS:HA	1:k:514:GLN:HA	1.94	0.50
1:o:260:GLN:NE2	1:o:281:PHE:HB3	2.26	0.50
1:q:115:VAL:O	1:q:249:ASN:ND2	2.39	0.50
1:r:384:MET:HE1	1:r:395:PRO:HD3	1.94	0.50
1:s:346:LYS:HA	1:s:514:GLN:HA	1.94	0.50
1:v:454:LYS:HG2	1:v:463:ILE:HD12	1.92	0.50
1:2:260:GLN:NE2	1:2:281:PHE:HB3	2.26	0.50
1:3:85:THR:CG2	1:4:281:PHE:H	2.25	0.50
1:5:35:THR:HG1	1:5:132:ASN:H	1.58	0.50
1:6:115:VAL:O	1:6:249:ASN:ND2	2.39	0.50
1:7:384:MET:HE1	1:7:395:PRO:HD3	1.94	0.50
1:A:485:HIS:CB	1:G:164:ARG:HG3	2.42	0.50
1:B:320:PRO:HD3	1:L:282:CYS:O	2.12	0.50
1:C:106:PHE:O	1:C:414:TYR:OH	2.25	0.50
1:E:503:GLY:O	1:E:514:GLN:HG3	2.11	0.50
1:G:281:PHE:H	1:I:85:THR:CG2	2.24	0.50
1:G:485:HIS:CB	1:I:164:ARG:HG3	2.42	0.50
1:I:260:GLN:NE2	1:I:281:PHE:HB3	2.26	0.50
1:K:150:ASP:OD1	1:7:149:ASN:ND2	2.29	0.50
1:K:164:ARG:HG3	1:8:485:HIS:CB	2.42	0.50
1:L:346:LYS:HA	1:L:514:GLN:HA	1.94	0.50
1:P:384:MET:HE1	1:P:395:PRO:HD3	1.94	0.50
1:Q:317:ASP:OD1	1:Q:317:ASP:N	2.43	0.50
1:S:258:GLN:O	1:U:193:MET:HE3	2.12	0.50
1:S:317:ASP:OD1	1:S:317:ASP:N	2.43	0.50
1:S:384:MET:HE1	1:S:395:PRO:HD3	1.94	0.50
1:T:258:GLN:O	1:d:193:MET:HE3	2.12	0.50
1:Y:384:MET:HE1	1:Y:395:PRO:HD3	1.94	0.50
1:Z:258:GLN:O	1:4:193:MET:HE3	2.12	0.50
1:Z:485:HIS:CB	1:4:164:ARG:HG3	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:384:MET:HE1	1:a:395:PRO:HD3	1.94	0.50
1:f:35:THR:HG1	1:f:132:ASN:H	1.58	0.50
1:f:485:HIS:CB	1:h:164:ARG:HG3	2.42	0.50
1:j:384:MET:HE1	1:j:395:PRO:HD3	1.94	0.50
1:k:386:THR:OG1	1:k:392:ALA:O	2.27	0.50
1:m:258:GLN:O	1:n:193:MET:HE3	2.12	0.50
1:r:317:ASP:OD1	1:r:317:ASP:N	2.43	0.50
1:t:149:ASN:OD1	1:6:454:LYS:NZ	2.44	0.50
1:t:164:ARG:HG3	1:v:485:HIS:CB	2.42	0.50
1:u:260:GLN:NE2	1:u:281:PHE:HB3	2.26	0.50
1:u:384:MET:HE1	1:u:395:PRO:HD3	1.94	0.50
1:w:193:MET:HE3	1:y:258:GLN:O	2.12	0.50
1:x:317:ASP:OD1	1:x:317:ASP:N	2.43	0.50
1:3:384:MET:HE1	1:3:395:PRO:HD3	1.94	0.50
1:A:164:ARG:HG3	1:I:485:HIS:CB	2.42	0.50
1:D:384:MET:HE1	1:D:395:PRO:HD3	1.94	0.50
1:D:485:HIS:CB	1:N:164:ARG:HG3	2.42	0.50
1:E:281:PHE:H	1:Q:85:THR:CG2	2.24	0.50
1:F:85:THR:CG2	1:Q:281:PHE:H	2.25	0.50
1:F:503:GLY:O	1:F:514:GLN:HG3	2.11	0.50
1:G:149:ASN:OD1	1:W:454:LYS:NZ	2.44	0.50
1:G:149:ASN:ND2	1:W:150:ASP:OD1	2.29	0.50
1:H:282:CYS:O	1:W:320:PRO:HD3	2.12	0.50
1:M:164:ARG:HG3	1:b:485:HIS:CB	2.42	0.50
1:T:384:MET:HE1	1:T:395:PRO:HD3	1.94	0.50
1:X:164:ARG:HG3	1:e:485:HIS:CB	2.42	0.50
1:Z:193:MET:HE3	1:3:258:GLN:O	2.12	0.50
1:j:281:PHE:H	1:k:85:THR:CG2	2.25	0.50
1:k:384:MET:HE1	1:k:395:PRO:HD3	1.94	0.50
1:m:384:MET:HE1	1:m:395:PRO:HD3	1.94	0.50
1:m:485:HIS:CB	1:n:164:ARG:HG3	2.42	0.50
1:r:258:GLN:O	1:s:193:MET:HE3	2.12	0.50
1:t:35:THR:HG1	1:t:132:ASN:H	1.59	0.50
1:t:485:HIS:CB	1:u:164:ARG:HG3	2.42	0.50
1:v:115:VAL:O	1:v:249:ASN:ND2	2.39	0.50
1:w:503:GLY:O	1:w:514:GLN:HG3	2.11	0.50
1:x:346:LYS:HA	1:x:514:GLN:HA	1.94	0.50
1:y:106:PHE:O	1:y:414:TYR:OH	2.25	0.50
1:y:503:GLY:O	1:y:514:GLN:HG3	2.11	0.50
1:z:272:ARG:NH2	1:1:301:ALA:O	2.37	0.50
1:5:164:ARG:HG3	1:7:485:HIS:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:281:PHE:H	1:b:85:THR:CG2	2.25	0.49
1:C:454:LYS:HG2	1:C:463:ILE:HD12	1.92	0.49
1:D:85:THR:CG2	1:P:281:PHE:H	2.25	0.49
1:F:106:PHE:O	1:F:414:TYR:OH	2.25	0.49
1:F:149:ASN:ND2	1:G:150:ASP:OD1	2.29	0.49
1:G:503:GLY:O	1:G:514:GLN:HG3	2.11	0.49
1:J:485:HIS:CB	1:L:164:ARG:HG3	2.42	0.49
1:K:35:THR:HG1	1:K:132:ASN:H	1.58	0.49
1:O:85:THR:CG2	1:n:281:PHE:H	2.25	0.49
1:R:115:VAL:O	1:R:249:ASN:ND2	2.39	0.49
1:S:346:LYS:HA	1:S:514:GLN:HA	1.94	0.49
1:T:485:HIS:CB	1:d:164:ARG:HG3	2.42	0.49
1:b:346:LYS:HA	1:b:514:GLN:HA	1.94	0.49
1:c:164:ARG:HG3	1:p:485:HIS:CB	2.42	0.49
1:c:346:LYS:HA	1:c:514:GLN:HA	1.94	0.49
1:c:485:HIS:CB	1:o:164:ARG:HG3	2.42	0.49
1:d:281:PHE:H	1:l:85:THR:CG2	2.25	0.49
1:e:346:LYS:HA	1:e:514:GLN:HA	1.94	0.49
1:f:346:LYS:HA	1:f:514:GLN:HA	1.94	0.49
1:g:384:MET:HE1	1:g:395:PRO:HD3	1.94	0.49
1:i:164:ARG:HG3	1:k:485:HIS:CB	2.42	0.49
1:i:503:GLY:O	1:i:514:GLN:HG3	2.11	0.49
1:o:149:ASN:ND2	1:7:150:ASP:OD1	2.29	0.49
1:o:281:PHE:H	1:p:85:THR:CG2	2.25	0.49
1:r:346:LYS:HA	1:r:514:GLN:HA	1.94	0.49
1:r:485:HIS:CB	1:s:164:ARG:HG3	2.42	0.49
1:t:503:GLY:O	1:t:514:GLN:HG3	2.11	0.49
1:u:485:HIS:CB	1:v:164:ARG:HG3	2.42	0.49
1:w:281:PHE:H	1:x:85:THR:CG2	2.24	0.49
1:x:281:PHE:H	1:y:85:THR:CG2	2.25	0.49
1:1:258:GLN:O	1:2:193:MET:HE3	2.12	0.49
1:2:367:VAL:HG11	1:2:517:VAL:HG12	1.94	0.49
1:5:282:CYS:O	1:6:320:PRO:HD3	2.12	0.49
1:C:384:MET:HE1	1:C:395:PRO:HD3	1.94	0.49
1:D:106:PHE:O	1:D:414:TYR:OH	2.25	0.49
1:D:164:ARG:HG3	1:P:485:HIS:CB	2.42	0.49
1:G:35:THR:HG1	1:G:132:ASN:H	1.59	0.49
1:H:258:GLN:O	1:W:193:MET:HE3	2.12	0.49
1:K:384:MET:HE1	1:K:395:PRO:HD3	1.94	0.49
1:M:367:VAL:HG11	1:M:517:VAL:HG12	1.95	0.49
1:N:503:GLY:O	1:N:514:GLN:HG3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:346:LYS:HA	1:O:514:GLN:HA	1.94	0.49
1:S:282:CYS:O	1:U:320:PRO:HD3	2.13	0.49
1:S:485:HIS:CB	1:U:164:ARG:HG3	2.42	0.49
1:T:346:LYS:HA	1:T:514:GLN:HA	1.94	0.49
1:U:367:VAL:HG11	1:U:517:VAL:HG12	1.95	0.49
1:V:346:LYS:HA	1:V:514:GLN:HA	1.94	0.49
1:W:384:MET:HE1	1:W:395:PRO:HD3	1.94	0.49
1:Y:149:ASN:ND2	1:4:150:ASP:OD1	2.29	0.49
1:a:258:GLN:O	1:8:193:MET:HE3	2.12	0.49
1:c:258:GLN:O	1:o:193:MET:HE3	2.12	0.49
1:f:85:THR:CG2	1:g:281:PHE:H	2.25	0.49
1:h:367:VAL:HG11	1:h:517:VAL:HG12	1.95	0.49
1:j:485:HIS:CB	1:k:164:ARG:HG3	2.42	0.49
1:r:282:CYS:O	1:s:320:PRO:HD3	2.13	0.49
1:z:164:ARG:HG3	1:2:485:HIS:CB	2.42	0.49
1:z:320:PRO:HD3	1:2:282:CYS:O	2.12	0.49
1:1:281:PHE:H	1:2:85:THR:CG2	2.25	0.49
1:5:266:THR:HA	1:6:173:GLN:HA	1.93	0.49
1:6:384:MET:HE1	1:6:395:PRO:HD3	1.94	0.49
1:7:367:VAL:HG11	1:7:517:VAL:HG12	1.95	0.49
1:A:320:PRO:HD3	1:I:282:CYS:O	2.13	0.49
1:A:346:LYS:HA	1:A:514:GLN:HA	1.94	0.49
1:C:85:THR:CG2	1:M:281:PHE:H	2.25	0.49
1:C:258:GLN:O	1:b:193:MET:HE3	2.12	0.49
1:C:320:PRO:HD3	1:M:282:CYS:O	2.13	0.49
1:D:320:PRO:HD3	1:P:282:CYS:O	2.12	0.49
1:E:485:HIS:CB	1:Q:164:ARG:HG3	2.42	0.49
1:J:282:CYS:O	1:L:320:PRO:HD3	2.13	0.49
1:L:503:GLY:O	1:L:514:GLN:HG3	2.11	0.49
1:O:320:PRO:HD3	1:n:282:CYS:O	2.12	0.49
1:Q:346:LYS:HA	1:Q:514:GLN:HA	1.94	0.49
1:R:35:THR:HG1	1:R:132:ASN:H	1.58	0.49
1:R:282:CYS:O	1:S:320:PRO:HD3	2.13	0.49
1:R:328:TYR:HD2	1:R:380:ARG:HG3	1.78	0.49
1:R:384:MET:HE1	1:R:395:PRO:HD3	1.94	0.49
1:V:85:THR:CG2	1:X:281:PHE:H	2.25	0.49
1:V:258:GLN:O	1:e:193:MET:HE3	2.12	0.49
1:V:485:HIS:CB	1:e:164:ARG:HG3	2.42	0.49
1:W:281:PHE:H	1:Y:85:THR:CG2	2.25	0.49
1:W:282:CYS:O	1:Y:320:PRO:HD3	2.12	0.49
1:X:85:THR:CG2	1:e:281:PHE:H	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:193:MET:HE3	1:e:258:GLN:O	2.12	0.49
1:Y:367:VAL:HG11	1:Y:517:VAL:HG12	1.95	0.49
1:Z:503:GLY:O	1:Z:514:GLN:HG3	2.11	0.49
1:a:503:GLY:O	1:a:514:GLN:HG3	2.11	0.49
1:d:328:TYR:HD2	1:d:380:ARG:HG3	1.78	0.49
1:g:320:PRO:HD3	1:h:282:CYS:O	2.13	0.49
1:i:328:TYR:HD2	1:i:380:ARG:HG3	1.78	0.49
1:k:35:THR:HG1	1:k:132:ASN:H	1.58	0.49
1:l:346:LYS:HA	1:l:514:GLN:HA	1.94	0.49
1:m:346:LYS:HA	1:m:514:GLN:HA	1.94	0.49
1:n:328:TYR:HD2	1:n:380:ARG:HG3	1.78	0.49
1:o:272:ARG:NH2	1:p:301:ALA:O	2.37	0.49
1:p:346:LYS:HA	1:p:514:GLN:HA	1.94	0.49
1:q:282:CYS:O	1:r:320:PRO:HD3	2.13	0.49
1:q:384:MET:HE1	1:q:395:PRO:HD3	1.94	0.49
1:s:367:VAL:HG11	1:s:517:VAL:HG12	1.95	0.49
1:v:346:LYS:HA	1:v:514:GLN:HA	1.94	0.49
1:w:485:HIS:CB	1:x:164:ARG:HG3	2.42	0.49
1:4:384:MET:HE1	1:4:395:PRO:HD3	1.94	0.49
1:5:320:PRO:HD3	1:7:282:CYS:O	2.12	0.49
1:5:384:MET:HE1	1:5:395:PRO:HD3	1.94	0.49
1:6:282:CYS:O	1:7:320:PRO:HD3	2.12	0.49
1:8:384:MET:HE1	1:8:395:PRO:HD3	1.94	0.49
1:C:164:ARG:HG3	1:M:485:HIS:CB	2.42	0.49
1:D:193:MET:HE3	1:P:258:GLN:O	2.12	0.49
1:D:258:GLN:O	1:N:193:MET:HE3	2.12	0.49
1:D:281:PHE:H	1:N:85:THR:CG2	2.25	0.49
1:E:328:TYR:HD2	1:E:380:ARG:HG3	1.78	0.49
1:H:384:MET:HE1	1:H:395:PRO:HD3	1.94	0.49
1:J:367:VAL:HG11	1:J:517:VAL:HG12	1.95	0.49
1:K:485:HIS:CB	1:a:164:ARG:HG3	2.42	0.49
1:L:328:TYR:HD2	1:L:380:ARG:HG3	1.78	0.49
1:M:193:MET:HE3	1:b:258:GLN:O	2.12	0.49
1:M:454:LYS:NZ	1:c:149:ASN:OD1	2.44	0.49
1:N:328:TYR:HD2	1:N:380:ARG:HG3	1.78	0.49
1:Y:346:LYS:HA	1:Y:514:GLN:HA	1.94	0.49
1:Z:317:ASP:OD1	1:Z:317:ASP:N	2.43	0.49
1:c:193:MET:HE3	1:p:258:GLN:O	2.12	0.49
1:c:281:PHE:H	1:o:85:THR:CG2	2.25	0.49
1:d:282:CYS:O	1:l:320:PRO:HD3	2.12	0.49
1:f:193:MET:HE3	1:g:258:GLN:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:258:GLN:O	1:h:193:MET:HE3	2.12	0.49
1:g:85:THR:CG2	1:h:281:PHE:H	2.25	0.49
1:g:164:ARG:HG3	1:h:485:HIS:CB	2.42	0.49
1:i:85:THR:CG2	1:k:281:PHE:H	2.25	0.49
1:i:193:MET:HE3	1:k:258:GLN:O	2.12	0.49
1:i:258:GLN:O	1:j:193:MET:HE3	2.13	0.49
1:j:367:VAL:HG11	1:j:517:VAL:HG12	1.95	0.49
1:k:106:PHE:O	1:k:414:TYR:OH	2.25	0.49
1:m:503:GLY:O	1:m:514:GLN:HG3	2.11	0.49
1:q:35:THR:HG1	1:q:132:ASN:H	1.59	0.49
1:q:328:TYR:HD2	1:q:380:ARG:HG3	1.78	0.49
1:u:282:CYS:O	1:v:320:PRO:HD3	2.13	0.49
1:w:328:TYR:HD2	1:w:380:ARG:HG3	1.78	0.49
1:w:367:VAL:HG11	1:w:517:VAL:HG12	1.95	0.49
1:z:328:TYR:HD2	1:z:380:ARG:HG3	1.78	0.49
1:3:35:THR:HG1	1:3:132:ASN:H	1.59	0.49
1:3:367:VAL:HG11	1:3:517:VAL:HG12	1.95	0.49
1:3:503:GLY:O	1:3:514:GLN:HG3	2.11	0.49
1:6:281:PHE:H	1:7:85:THR:CG2	2.25	0.49
1:7:346:LYS:HA	1:7:514:GLN:HA	1.94	0.49
1:8:317:ASP:OD1	1:8:317:ASP:N	2.43	0.49
1:8:503:GLY:O	1:8:514:GLN:HG3	2.11	0.49
1:A:193:MET:HE3	1:I:258:GLN:O	2.12	0.49
1:B:193:MET:HE3	1:L:258:GLN:O	2.12	0.49
1:B:266:THR:HA	1:J:173:GLN:HA	1.94	0.49
1:B:384:MET:HE1	1:B:395:PRO:HD3	1.94	0.49
1:D:173:GLN:HA	1:P:266:THR:HA	1.95	0.49
1:E:367:VAL:HG11	1:E:517:VAL:HG12	1.95	0.49
1:F:346:LYS:HA	1:F:514:GLN:HA	1.94	0.49
1:H:164:ARG:HG3	1:Y:485:HIS:CB	2.42	0.49
1:H:346:LYS:HA	1:H:514:GLN:HA	1.94	0.49
1:I:35:THR:HG1	1:I:132:ASN:H	1.58	0.49
1:J:266:THR:HA	1:L:173:GLN:HA	1.95	0.49
1:N:258:GLN:O	1:P:193:MET:HE3	2.13	0.49
1:N:384:MET:HE1	1:N:395:PRO:HD3	1.94	0.49
1:P:367:VAL:HG11	1:P:517:VAL:HG12	1.95	0.49
1:Q:384:MET:HE1	1:Q:395:PRO:HD3	1.94	0.49
1:T:282:CYS:O	1:d:320:PRO:HD3	2.13	0.49
1:V:35:THR:HG1	1:V:132:ASN:H	1.59	0.49
1:V:320:PRO:HD3	1:X:282:CYS:O	2.13	0.49
1:X:149:ASN:ND2	1:Y:150:ASP:OD1	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:346:LYS:HA	1:a:514:GLN:HA	1.94	0.49
1:a:367:VAL:HG11	1:a:517:VAL:HG12	1.95	0.49
1:b:328:TYR:HD2	1:b:380:ARG:HG3	1.78	0.49
1:f:281:PHE:H	1:h:85:THR:CG2	2.25	0.49
1:f:328:TYR:HD2	1:f:380:ARG:HG3	1.78	0.49
1:j:258:GLN:O	1:k:193:MET:HE3	2.12	0.49
1:j:282:CYS:O	1:k:320:PRO:HD3	2.12	0.49
1:m:282:CYS:O	1:n:320:PRO:HD3	2.13	0.49
1:t:454:LYS:NZ	1:y:149:ASN:OD1	2.44	0.49
1:u:258:GLN:O	1:v:193:MET:HE3	2.12	0.49
1:v:367:VAL:HG11	1:v:517:VAL:HG12	1.95	0.49
1:w:282:CYS:O	1:x:320:PRO:HD3	2.13	0.49
1:x:384:MET:HE1	1:x:395:PRO:HD3	1.94	0.49
1:y:346:LYS:HA	1:y:514:GLN:HA	1.94	0.49
1:y:384:MET:HE1	1:y:395:PRO:HD3	1.94	0.49
1:z:173:GLN:HA	1:2:266:THR:HA	1.95	0.49
1:z:282:CYS:O	1:1:320:PRO:HD3	2.13	0.49
1:z:485:HIS:CB	1:1:164:ARG:HG3	2.42	0.49
1:z:503:GLY:O	1:z:514:GLN:HG3	2.11	0.49
1:1:282:CYS:O	1:2:320:PRO:HD3	2.13	0.49
1:1:384:MET:HE1	1:1:395:PRO:HD3	1.94	0.49
1:1:485:HIS:CB	1:2:164:ARG:HG3	2.42	0.49
1:3:164:ARG:HG3	1:4:485:HIS:CB	2.42	0.49
1:3:346:LYS:HA	1:3:514:GLN:HA	1.94	0.49
1:4:35:THR:HG1	1:4:132:ASN:H	1.58	0.49
1:5:346:LYS:HA	1:5:514:GLN:HA	1.94	0.49
1:C:387:VAL:HG11	1:b:395:PRO:HG2	1.95	0.49
1:D:328:TYR:HD2	1:D:380:ARG:HG3	1.78	0.49
1:E:282:CYS:O	1:Q:320:PRO:HD3	2.13	0.49
1:F:384:MET:HE1	1:F:395:PRO:HD3	1.94	0.49
1:H:387:VAL:HG11	1:W:395:PRO:HG2	1.95	0.49
1:L:367:VAL:HG11	1:L:517:VAL:HG12	1.95	0.49
1:M:85:THR:CG2	1:b:281:PHE:H	2.25	0.49
1:M:395:PRO:HG2	1:b:387:VAL:HG11	1.95	0.49
1:R:164:ARG:HG3	1:U:485:HIS:CB	2.42	0.49
1:X:173:GLN:HA	1:e:266:THR:HA	1.95	0.49
1:X:328:TYR:HD2	1:X:380:ARG:HG3	1.78	0.49
1:Z:384:MET:HE1	1:Z:395:PRO:HD3	1.94	0.49
1:a:35:THR:HG1	1:a:132:ASN:H	1.59	0.49
1:e:35:THR:HG1	1:e:132:ASN:H	1.58	0.49
1:e:328:TYR:HD2	1:e:380:ARG:HG3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:395:PRO:HG2	1:g:387:VAL:HG11	1.95	0.49
1:i:320:PRO:HD3	1:k:282:CYS:O	2.12	0.49
1:i:384:MET:HE1	1:i:395:PRO:HD3	1.94	0.49
1:i:485:HIS:CB	1:j:164:ARG:HG3	2.42	0.49
1:j:266:THR:HA	1:k:173:GLN:HA	1.95	0.49
1:k:328:TYR:HD2	1:k:380:ARG:HG3	1.78	0.49
1:o:258:GLN:O	1:p:193:MET:HE3	2.12	0.49
1:o:282:CYS:O	1:p:320:PRO:HD3	2.13	0.49
1:o:328:TYR:HD2	1:o:380:ARG:HG3	1.78	0.49
1:z:258:GLN:O	1:1:193:MET:HE3	2.12	0.49
1:z:281:PHE:H	1:1:85:THR:CG2	2.25	0.49
1:2:328:TYR:HD2	1:2:380:ARG:HG3	1.78	0.49
1:5:173:GLN:HA	1:7:266:THR:HA	1.94	0.49
1:5:258:GLN:O	1:6:193:MET:HE3	2.13	0.49
1:5:328:TYR:HD2	1:5:380:ARG:HG3	1.78	0.49
1:B:258:GLN:O	1:J:193:MET:HE3	2.13	0.49
1:C:454:LYS:NZ	1:D:149:ASN:OD1	2.44	0.49
1:D:282:CYS:O	1:N:320:PRO:HD3	2.12	0.49
1:D:395:PRO:HG2	1:P:387:VAL:HG11	1.95	0.49
1:F:149:ASN:OD1	1:G:454:LYS:NZ	2.44	0.49
1:G:387:VAL:HG11	1:I:395:PRO:HG2	1.95	0.49
1:H:328:TYR:HD2	1:H:380:ARG:HG3	1.78	0.49
1:I:503:GLY:O	1:I:514:GLN:HG3	2.11	0.49
1:J:328:TYR:HD2	1:J:380:ARG:HG3	1.78	0.49
1:K:106:PHE:O	1:K:414:TYR:OH	2.25	0.49
1:N:485:HIS:CB	1:P:164:ARG:HG3	2.42	0.49
1:R:258:GLN:O	1:S:193:MET:HE3	2.12	0.49
1:R:367:VAL:HG11	1:R:517:VAL:HG12	1.95	0.49
1:T:503:GLY:O	1:T:514:GLN:HG3	2.12	0.49
1:V:193:MET:HE3	1:X:258:GLN:O	2.12	0.49
1:V:387:VAL:HG11	1:e:395:PRO:HG2	1.95	0.49
1:X:395:PRO:HG2	1:e:387:VAL:HG11	1.95	0.49
1:a:282:CYS:O	1:8:320:PRO:HD3	2.12	0.49
1:b:367:VAL:HG11	1:b:517:VAL:HG12	1.95	0.49
1:c:266:THR:HA	1:o:173:GLN:HA	1.95	0.49
1:c:387:VAL:HG11	1:o:395:PRO:HG2	1.95	0.49
1:e:149:ASN:OD1	1:h:454:LYS:NZ	2.44	0.49
1:f:387:VAL:HG11	1:h:395:PRO:HG2	1.95	0.49
1:q:164:ARG:HG3	1:s:485:HIS:CB	2.42	0.49
1:q:258:GLN:O	1:r:193:MET:HE3	2.12	0.49
1:t:387:VAL:HG11	1:u:395:PRO:HG2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:503:GLY:O	1:u:514:GLN:HG3	2.11	0.49
1:w:85:THR:CG2	1:y:281:PHE:H	2.25	0.49
1:z:367:VAL:HG11	1:z:517:VAL:HG12	1.95	0.49
1:4:106:PHE:O	1:4:414:TYR:OH	2.25	0.49
1:A:258:GLN:O	1:G:193:MET:HE3	2.12	0.49
1:A:367:VAL:HG11	1:A:517:VAL:HG12	1.95	0.49
1:B:125:ALA:H	1:B:476:GLU:HB2	1.78	0.49
1:C:282:CYS:O	1:b:320:PRO:HD3	2.13	0.49
1:C:328:TYR:HD2	1:C:380:ARG:HG3	1.78	0.49
1:D:198:ASN:ND2	1:D:201:GLY:O	2.45	0.49
1:E:85:THR:CG2	1:F:281:PHE:H	2.25	0.49
1:E:125:ALA:H	1:E:476:GLU:HB2	1.78	0.49
1:E:346:LYS:HA	1:E:514:GLN:HA	1.94	0.49
1:E:384:MET:HE1	1:E:395:PRO:HD3	1.94	0.49
1:E:387:VAL:HG11	1:Q:395:PRO:HG2	1.95	0.49
1:I:174:THR:HB	1:I:354:ILE:HD12	1.95	0.49
1:J:258:GLN:O	1:L:193:MET:HE3	2.12	0.49
1:M:174:THR:HB	1:M:354:ILE:HD12	1.95	0.49
1:T:281:PHE:H	1:d:85:THR:CG2	2.25	0.49
1:X:320:PRO:HD3	1:e:282:CYS:O	2.13	0.49
1:Y:174:THR:HB	1:Y:354:ILE:HD12	1.95	0.49
1:Z:164:ARG:HG3	1:3:485:HIS:CB	2.42	0.49
1:c:328:TYR:HD2	1:c:380:ARG:HG3	1.78	0.49
1:c:384:MET:HE1	1:c:395:PRO:HD3	1.94	0.49
1:c:395:PRO:HG2	1:p:387:VAL:HG11	1.95	0.49
1:d:174:THR:HB	1:d:354:ILE:HD12	1.95	0.49
1:d:384:MET:HE1	1:d:395:PRO:HD3	1.94	0.49
1:f:367:VAL:HG11	1:f:517:VAL:HG12	1.95	0.49
1:g:367:VAL:HG11	1:g:517:VAL:HG12	1.95	0.49
1:h:174:THR:HB	1:h:354:ILE:HD12	1.95	0.49
1:j:346:LYS:HA	1:j:514:GLN:HA	1.94	0.49
1:j:387:VAL:HG11	1:k:395:PRO:HG2	1.95	0.49
1:l:35:THR:HG1	1:l:132:ASN:H	1.59	0.49
1:m:198:ASN:ND2	1:m:201:GLY:O	2.45	0.49
1:n:174:THR:HB	1:n:354:ILE:HD12	1.95	0.49
1:o:266:THR:HA	1:p:173:GLN:HA	1.95	0.49
1:o:387:VAL:HG11	1:p:395:PRO:HG2	1.95	0.49
1:o:485:HIS:CB	1:p:164:ARG:HG3	2.42	0.49
1:q:485:HIS:CB	1:r:164:ARG:HG3	2.42	0.49
1:t:193:MET:HE3	1:v:258:GLN:O	2.12	0.49
1:v:328:TYR:HD2	1:v:380:ARG:HG3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:125:ALA:H	1:w:476:GLU:HB2	1.78	0.49
1:w:346:LYS:HA	1:w:514:GLN:HA	1.94	0.49
1:1:125:ALA:H	1:1:476:GLU:HB2	1.78	0.49
1:6:35:THR:HG1	1:6:132:ASN:H	1.58	0.49
1:6:367:VAL:HG11	1:6:517:VAL:HG12	1.95	0.49
1:7:174:THR:HB	1:7:354:ILE:HD12	1.95	0.49
1:A:328:TYR:HD2	1:A:380:ARG:HG3	1.78	0.49
1:B:281:PHE:H	1:J:85:THR:CG2	2.25	0.49
1:C:367:VAL:HG11	1:C:517:VAL:HG12	1.95	0.49
1:F:328:TYR:HD2	1:F:380:ARG:HG3	1.78	0.49
1:H:173:GLN:HA	1:Y:266:THR:HA	1.94	0.49
1:H:281:PHE:H	1:W:85:THR:CG2	2.25	0.49
1:K:258:GLN:O	1:a:193:MET:HE3	2.12	0.49
1:N:387:VAL:HG11	1:P:395:PRO:HG2	1.94	0.49
1:O:35:THR:HG1	1:O:132:ASN:H	1.58	0.49
1:O:150:ASP:OD1	1:d:149:ASN:ND2	2.29	0.49
1:P:328:TYR:HD2	1:P:380:ARG:HG3	1.78	0.49
1:Q:198:ASN:ND2	1:Q:201:GLY:O	2.45	0.49
1:R:485:HIS:CB	1:S:164:ARG:HG3	2.42	0.49
1:V:173:GLN:HA	1:X:266:THR:HA	1.95	0.49
1:W:367:VAL:HG11	1:W:517:VAL:HG12	1.95	0.49
1:Y:328:TYR:HD2	1:Y:380:ARG:HG3	1.78	0.49
1:Z:320:PRO:HD3	1:3:282:CYS:O	2.12	0.49
1:a:485:HIS:CB	1:8:164:ARG:HG3	2.42	0.49
1:c:282:CYS:O	1:o:320:PRO:HD3	2.13	0.49
1:d:125:ALA:H	1:d:476:GLU:HB2	1.78	0.49
1:f:320:PRO:HD3	1:g:282:CYS:O	2.13	0.49
1:g:328:TYR:HD2	1:g:380:ARG:HG3	1.78	0.49
1:j:328:TYR:HD2	1:j:380:ARG:HG3	1.78	0.49
1:k:198:ASN:ND2	1:k:201:GLY:O	2.45	0.49
1:l:150:ASP:OD1	1:n:149:ASN:ND2	2.29	0.49
1:l:198:ASN:ND2	1:l:201:GLY:O	2.45	0.49
1:m:281:PHE:H	1:n:85:THR:CG2	2.25	0.49
1:n:125:ALA:H	1:n:476:GLU:HB2	1.78	0.49
1:n:384:MET:HE1	1:n:395:PRO:HD3	1.94	0.49
1:q:367:VAL:HG11	1:q:517:VAL:HG12	1.95	0.49
1:u:174:THR:HB	1:u:354:ILE:HD12	1.95	0.49
1:w:384:MET:HE1	1:w:395:PRO:HD3	1.94	0.49
1:w:387:VAL:HG11	1:x:395:PRO:HG2	1.95	0.49
1:z:387:VAL:HG11	1:1:395:PRO:HG2	1.95	0.49
1:7:328:TYR:HD2	1:7:380:ARG:HG3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:395:PRO:HG2	1:L:387:VAL:HG11	1.95	0.49
1:C:266:THR:HA	1:b:173:GLN:HA	1.95	0.49
1:E:164:ARG:HG3	1:F:485:HIS:CB	2.42	0.49
1:G:328:TYR:HD2	1:G:380:ARG:HG3	1.78	0.49
1:H:272:ARG:NH2	1:W:301:ALA:O	2.37	0.49
1:I:149:ASN:OD1	1:J:454:LYS:NZ	2.44	0.49
1:I:317:ASP:OD1	1:I:317:ASP:N	2.43	0.49
1:J:346:LYS:HA	1:J:514:GLN:HA	1.94	0.49
1:M:384:MET:HE1	1:M:395:PRO:HD3	1.94	0.49
1:O:193:MET:HE3	1:n:258:GLN:O	2.12	0.49
1:O:198:ASN:ND2	1:O:201:GLY:O	2.45	0.49
1:O:258:GLN:O	1:m:193:MET:HE3	2.12	0.49
1:P:115:VAL:O	1:P:249:ASN:ND2	2.39	0.49
1:P:174:THR:HB	1:P:354:ILE:HD12	1.95	0.49
1:P:346:LYS:HA	1:P:514:GLN:HA	1.94	0.49
1:R:395:PRO:HG2	1:U:387:VAL:HG11	1.95	0.49
1:S:328:TYR:HD2	1:S:380:ARG:HG3	1.78	0.49
1:T:198:ASN:ND2	1:T:201:GLY:O	2.45	0.49
1:U:174:THR:HB	1:U:354:ILE:HD12	1.95	0.49
1:U:328:TYR:HD2	1:U:380:ARG:HG3	1.78	0.49
1:V:164:ARG:HG3	1:X:485:HIS:CB	2.42	0.49
1:W:387:VAL:HG11	1:Y:395:PRO:HG2	1.95	0.49
1:Z:454:LYS:NZ	1:a:149:ASN:OD1	2.44	0.49
1:e:384:MET:HE1	1:e:395:PRO:HD3	1.94	0.49
1:g:454:LYS:NZ	1:k:149:ASN:OD1	2.44	0.49
1:i:387:VAL:HG11	1:j:395:PRO:HG2	1.94	0.49
1:j:198:ASN:ND2	1:j:201:GLY:O	2.45	0.49
1:n:346:LYS:HA	1:n:514:GLN:HA	1.94	0.49
1:o:149:ASN:OD1	1:7:454:LYS:NZ	2.44	0.49
1:o:346:LYS:HA	1:o:514:GLN:HA	1.94	0.49
1:p:35:THR:HG1	1:p:132:ASN:H	1.59	0.49
1:q:266:THR:HA	1:r:173:GLN:HA	1.94	0.49
1:q:346:LYS:HA	1:q:514:GLN:HA	1.94	0.49
1:r:328:TYR:HD2	1:r:380:ARG:HG3	1.78	0.49
1:t:328:TYR:HD2	1:t:380:ARG:HG3	1.78	0.49
1:x:485:HIS:CB	1:y:164:ARG:HG3	2.42	0.49
1:y:174:THR:HB	1:y:354:ILE:HD12	1.95	0.49
1:y:328:TYR:HD2	1:y:380:ARG:HG3	1.78	0.49
1:y:367:VAL:HG11	1:y:517:VAL:HG12	1.95	0.49
1:z:193:MET:HE3	1:2:258:GLN:O	2.12	0.49
1:2:346:LYS:HA	1:2:514:GLN:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:328:TYR:HD2	1:3:380:ARG:HG3	1.78	0.49
1:5:85:THR:CG2	1:7:281:PHE:H	2.25	0.49
1:5:272:ARG:NH2	1:6:301:ALA:O	2.38	0.49
1:6:258:GLN:O	1:7:193:MET:HE3	2.12	0.49
1:6:387:VAL:HG11	1:7:395:PRO:HG2	1.95	0.49
1:F:164:ARG:HG3	1:Q:485:HIS:CB	2.42	0.48
1:F:174:THR:HB	1:F:354:ILE:HD12	1.95	0.48
1:F:367:VAL:HG11	1:F:517:VAL:HG12	1.95	0.48
1:K:346:LYS:HA	1:K:514:GLN:HA	1.94	0.48
1:M:320:PRO:HD3	1:b:282:CYS:O	2.13	0.48
1:P:198:ASN:ND2	1:P:201:GLY:O	2.45	0.48
1:R:454:LYS:NZ	1:V:149:ASN:OD1	2.44	0.48
1:S:387:VAL:HG11	1:U:395:PRO:HG2	1.95	0.48
1:T:174:THR:HB	1:T:354:ILE:HD12	1.95	0.48
1:V:395:PRO:HG2	1:X:387:VAL:HG11	1.95	0.48
1:W:258:GLN:O	1:Y:193:MET:HE3	2.12	0.48
1:X:174:THR:HB	1:X:354:ILE:HD12	1.95	0.48
1:X:346:LYS:HA	1:X:514:GLN:HA	1.94	0.48
1:Y:101:GLN:HE21	1:Y:415:PHE:HA	1.78	0.48
1:Z:125:ALA:H	1:Z:476:GLU:HB2	1.78	0.48
1:Z:395:PRO:HG2	1:3:387:VAL:HG11	1.95	0.48
1:a:328:TYR:HD2	1:a:380:ARG:HG3	1.78	0.48
1:b:174:THR:HB	1:b:354:ILE:HD12	1.95	0.48
1:c:115:VAL:O	1:c:249:ASN:ND2	2.39	0.48
1:c:174:THR:HB	1:c:354:ILE:HD12	1.95	0.48
1:f:173:GLN:HA	1:g:266:THR:HA	1.95	0.48
1:f:174:THR:HB	1:f:354:ILE:HD12	1.95	0.48
1:g:174:THR:HB	1:g:354:ILE:HD12	1.95	0.48
1:h:384:MET:HE1	1:h:395:PRO:HD3	1.94	0.48
1:j:174:THR:HB	1:j:354:ILE:HD12	1.95	0.48
1:m:328:TYR:HD2	1:m:380:ARG:HG3	1.78	0.48
1:m:387:VAL:HG11	1:n:395:PRO:HG2	1.95	0.48
1:n:106:PHE:O	1:n:414:TYR:OH	2.25	0.48
1:q:395:PRO:HG2	1:s:387:VAL:HG11	1.95	0.48
1:r:101:GLN:HE21	1:r:415:PHE:HA	1.78	0.48
1:t:174:THR:HB	1:t:354:ILE:HD12	1.95	0.48
1:w:164:ARG:HG3	1:y:485:HIS:CB	2.42	0.48
1:w:258:GLN:O	1:x:193:MET:HE3	2.12	0.48
1:x:174:THR:HB	1:x:354:ILE:HD12	1.95	0.48
1:x:198:ASN:ND2	1:x:201:GLY:O	2.45	0.48
1:3:149:ASN:OD1	1:8:454:LYS:NZ	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:193:MET:HE3	1:4:258:GLN:O	2.12	0.48
1:4:125:ALA:H	1:4:476:GLU:HB2	1.78	0.48
1:7:101:GLN:HE21	1:7:415:PHE:HA	1.78	0.48
1:8:125:ALA:H	1:8:476:GLU:HB2	1.78	0.48
1:A:387:VAL:HG11	1:G:395:PRO:HG2	1.95	0.48
1:B:85:THR:CG2	1:L:281:PHE:H	2.25	0.48
1:B:387:VAL:HG11	1:J:395:PRO:HG2	1.94	0.48
1:C:174:THR:HB	1:C:354:ILE:HD12	1.95	0.48
1:D:266:THR:HA	1:N:173:GLN:HA	1.95	0.48
1:E:258:GLN:O	1:Q:193:MET:HE3	2.12	0.48
1:G:174:THR:HB	1:G:354:ILE:HD12	1.95	0.48
1:H:85:THR:CG2	1:Y:281:PHE:H	2.26	0.48
1:H:125:ALA:H	1:H:476:GLU:HB2	1.78	0.48
1:I:125:ALA:H	1:I:476:GLU:HB2	1.78	0.48
1:J:101:GLN:HE21	1:J:415:PHE:HA	1.78	0.48
1:J:174:THR:HB	1:J:354:ILE:HD12	1.95	0.48
1:K:125:ALA:H	1:K:476:GLU:HB2	1.78	0.48
1:O:282:CYS:O	1:m:320:PRO:HD3	2.13	0.48
1:Q:174:THR:HB	1:Q:354:ILE:HD12	1.95	0.48
1:R:101:GLN:HE21	1:R:415:PHE:HA	1.79	0.48
1:R:266:THR:HA	1:S:173:GLN:HA	1.94	0.48
1:S:101:GLN:HE21	1:S:415:PHE:HA	1.79	0.48
1:T:193:MET:HE3	1:l:258:GLN:O	2.12	0.48
1:T:387:VAL:HG11	1:d:395:PRO:HG2	1.95	0.48
1:V:266:THR:HA	1:e:173:GLN:HA	1.95	0.48
1:W:101:GLN:HE21	1:W:415:PHE:HA	1.78	0.48
1:W:266:THR:HA	1:Y:173:GLN:HA	1.95	0.48
1:W:328:TYR:HD2	1:W:380:ARG:HG3	1.78	0.48
1:W:485:HIS:CB	1:Y:164:ARG:HG3	2.42	0.48
1:X:125:ALA:H	1:X:476:GLU:HB2	1.78	0.48
1:X:149:ASN:OD1	1:Y:454:LYS:NZ	2.44	0.48
1:Z:328:TYR:HD2	1:Z:380:ARG:HG3	1.78	0.48
1:a:387:VAL:HG11	1:8:395:PRO:HG2	1.95	0.48
1:d:258:GLN:O	1:l:193:MET:HE3	2.12	0.48
1:d:346:LYS:HA	1:d:514:GLN:HA	1.94	0.48
1:e:115:VAL:O	1:e:249:ASN:ND2	2.39	0.48
1:e:174:THR:HB	1:e:354:ILE:HD12	1.95	0.48
1:i:173:GLN:HA	1:k:266:THR:HA	1.95	0.48
1:l:125:ALA:H	1:l:476:GLU:HB2	1.78	0.48
1:o:125:ALA:H	1:o:476:GLU:HB2	1.78	0.48
1:o:174:THR:HB	1:o:354:ILE:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:101:GLN:HE21	1:q:415:PHE:HA	1.79	0.48
1:r:387:VAL:HG11	1:s:395:PRO:HG2	1.95	0.48
1:s:125:ALA:H	1:s:476:GLU:HB2	1.78	0.48
1:s:174:THR:HB	1:s:354:ILE:HD12	1.95	0.48
1:s:328:TYR:HD2	1:s:380:ARG:HG3	1.78	0.48
1:u:317:ASP:OD1	1:u:317:ASP:N	2.43	0.48
1:x:387:VAL:HG11	1:y:395:PRO:HG2	1.95	0.48
1:1:266:THR:HA	1:2:173:GLN:HA	1.94	0.48
1:3:106:PHE:O	1:3:414:TYR:OH	2.25	0.48
1:5:125:ALA:H	1:5:476:GLU:HB2	1.78	0.48
1:5:281:PHE:H	1:6:85:THR:CG2	2.25	0.48
1:5:387:VAL:HG11	1:6:395:PRO:HG2	1.95	0.48
1:6:101:GLN:HE21	1:6:415:PHE:HA	1.78	0.48
1:6:328:TYR:HD2	1:6:380:ARG:HG3	1.78	0.48
1:8:115:VAL:O	1:8:249:ASN:ND2	2.39	0.48
1:A:282:CYS:O	1:G:320:PRO:HD3	2.12	0.48
1:C:395:PRO:HG2	1:M:387:VAL:HG11	1.95	0.48
1:F:395:PRO:HG2	1:Q:387:VAL:HG11	1.95	0.48
1:I:328:TYR:HD2	1:I:380:ARG:HG3	1.78	0.48
1:L:35:THR:HG1	1:L:132:ASN:H	1.58	0.48
1:Q:125:ALA:H	1:Q:476:GLU:HB2	1.78	0.48
1:R:173:GLN:HA	1:U:266:THR:HA	1.95	0.48
1:R:346:LYS:HA	1:R:514:GLN:HA	1.94	0.48
1:S:266:THR:HA	1:U:173:GLN:HA	1.95	0.48
1:S:367:VAL:HG11	1:S:517:VAL:HG12	1.95	0.48
1:T:320:PRO:HD3	1:l:282:CYS:O	2.13	0.48
1:T:328:TYR:HD2	1:T:380:ARG:HG3	1.78	0.48
1:T:454:LYS:NZ	1:i:149:ASN:OD1	2.43	0.48
1:U:125:ALA:H	1:U:476:GLU:HB2	1.78	0.48
1:W:125:ALA:H	1:W:476:GLU:HB2	1.78	0.48
1:W:174:THR:HB	1:W:354:ILE:HD12	1.95	0.48
1:X:367:VAL:HG11	1:X:517:VAL:HG12	1.95	0.48
1:Z:101:GLN:HE21	1:Z:415:PHE:HA	1.79	0.48
1:Z:367:VAL:HG11	1:Z:517:VAL:HG12	1.95	0.48
1:c:173:GLN:HA	1:p:266:THR:HA	1.95	0.48
1:f:101:GLN:HE21	1:f:415:PHE:HA	1.78	0.48
1:f:282:CYS:O	1:h:320:PRO:HD3	2.13	0.48
1:h:328:TYR:HD2	1:h:380:ARG:HG3	1.78	0.48
1:i:281:PHE:H	1:j:85:THR:CG2	2.26	0.48
1:m:174:THR:HB	1:m:354:ILE:HD12	1.95	0.48
1:q:320:PRO:HD3	1:s:282:CYS:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:367:VAL:HG11	1:r:517:VAL:HG12	1.95	0.48
1:x:125:ALA:H	1:x:476:GLU:HB2	1.78	0.48
1:2:101:GLN:HE21	1:2:415:PHE:HA	1.79	0.48
1:2:174:THR:HB	1:2:354:ILE:HD12	1.95	0.48
1:4:346:LYS:HA	1:4:514:GLN:HA	1.94	0.48
1:6:266:THR:HA	1:7:173:GLN:HA	1.95	0.48
1:A:281:PHE:H	1:G:85:THR:CG2	2.25	0.48
1:G:346:LYS:HA	1:G:514:GLN:HA	1.94	0.48
1:H:395:PRO:HG2	1:Y:387:VAL:HG11	1.94	0.48
1:M:115:VAL:O	1:M:249:ASN:ND2	2.39	0.48
1:M:328:TYR:HD2	1:M:380:ARG:HG3	1.78	0.48
1:N:281:PHE:H	1:P:85:THR:CG2	2.26	0.48
1:N:367:VAL:HG11	1:N:517:VAL:HG12	1.95	0.48
1:O:125:ALA:H	1:O:476:GLU:HB2	1.78	0.48
1:R:85:THR:CG2	1:U:281:PHE:H	2.25	0.48
1:R:320:PRO:HD3	1:U:282:CYS:O	2.13	0.48
1:V:101:GLN:HE21	1:V:415:PHE:HA	1.79	0.48
1:V:328:TYR:HD2	1:V:380:ARG:HG3	1.78	0.48
1:Z:173:GLN:HA	1:3:266:THR:HA	1.95	0.48
1:Z:174:THR:HB	1:Z:354:ILE:HD12	1.95	0.48
1:Z:282:CYS:O	1:4:320:PRO:HD3	2.13	0.48
1:a:109:ARG:HG3	1:a:110:ASP:N	2.29	0.48
1:a:266:THR:HA	1:8:173:GLN:HA	1.95	0.48
1:b:101:GLN:HE21	1:b:415:PHE:HA	1.78	0.48
1:c:150:ASP:OD1	1:s:149:ASN:ND2	2.29	0.48
1:j:115:VAL:O	1:j:249:ASN:ND2	2.39	0.48
1:o:367:VAL:HG11	1:o:517:VAL:HG12	1.95	0.48
1:p:149:ASN:OD1	1:q:454:LYS:NZ	2.44	0.48
1:q:173:GLN:HA	1:s:266:THR:HA	1.95	0.48
1:r:115:VAL:O	1:r:249:ASN:ND2	2.39	0.48
1:r:266:THR:HA	1:s:173:GLN:HA	1.95	0.48
1:u:125:ALA:H	1:u:476:GLU:HB2	1.78	0.48
1:u:328:TYR:HD2	1:u:380:ARG:HG3	1.78	0.48
1:3:109:ARG:HG3	1:3:110:ASP:N	2.29	0.48
1:3:125:ALA:H	1:3:476:GLU:HB2	1.78	0.48
1:5:485:HIS:CB	1:6:164:ARG:HG3	2.42	0.48
1:6:125:ALA:H	1:6:476:GLU:HB2	1.78	0.48
1:6:174:THR:HB	1:6:354:ILE:HD12	1.95	0.48
1:6:485:HIS:CB	1:7:164:ARG:HG3	2.42	0.48
1:8:101:GLN:HE21	1:8:415:PHE:HA	1.79	0.48
1:8:174:THR:HB	1:8:354:ILE:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:328:TYR:HD2	1:8:380:ARG:HG3	1.78	0.48
1:8:367:VAL:HG11	1:8:517:VAL:HG12	1.95	0.48
1:E:320:PRO:HD3	1:F:282:CYS:O	2.12	0.48
1:H:367:VAL:HG11	1:H:517:VAL:HG12	1.95	0.48
1:I:346:LYS:HA	1:I:514:GLN:HA	1.94	0.48
1:I:367:VAL:HG11	1:I:517:VAL:HG12	1.95	0.48
1:O:387:VAL:HG11	1:m:395:PRO:HG2	1.95	0.48
1:O:395:PRO:HG2	1:n:387:VAL:HG11	1.95	0.48
1:W:272:ARG:NH2	1:Y:301:ALA:O	2.37	0.48
1:a:101:GLN:HE21	1:a:415:PHE:HA	1.79	0.48
1:a:106:PHE:O	1:a:414:TYR:OH	2.25	0.48
1:a:125:ALA:H	1:a:476:GLU:HB2	1.78	0.48
1:d:387:VAL:HG11	1:l:395:PRO:HG2	1.95	0.48
1:g:395:PRO:HG2	1:h:387:VAL:HG11	1.95	0.48
1:i:367:VAL:HG11	1:i:517:VAL:HG12	1.95	0.48
1:k:174:THR:HB	1:k:354:ILE:HD12	1.95	0.48
1:l:174:THR:HB	1:l:354:ILE:HD12	1.95	0.48
1:p:101:GLN:HE21	1:p:415:PHE:HA	1.79	0.48
1:p:182:SER:OG	1:p:349:MET:SD	2.72	0.48
1:p:328:TYR:HD2	1:p:380:ARG:HG3	1.78	0.48
1:q:85:THR:CG2	1:s:281:PHE:H	2.25	0.48
1:t:85:THR:CG2	1:v:281:PHE:H	2.25	0.48
1:t:320:PRO:HD3	1:v:282:CYS:O	2.13	0.48
1:t:367:VAL:HG11	1:t:517:VAL:HG12	1.95	0.48
1:t:395:PRO:HG2	1:v:387:VAL:HG11	1.95	0.48
1:u:346:LYS:HA	1:u:514:GLN:HA	1.94	0.48
1:5:101:GLN:HE21	1:5:415:PHE:HA	1.78	0.48
1:5:367:VAL:HG11	1:5:517:VAL:HG12	1.95	0.48
1:7:35:THR:HG1	1:7:132:ASN:H	1.59	0.48
1:A:101:GLN:HE21	1:A:415:PHE:HA	1.79	0.48
1:D:174:THR:HB	1:D:354:ILE:HD12	1.95	0.48
1:E:173:GLN:HA	1:F:266:THR:HA	1.95	0.48
1:E:395:PRO:HG2	1:F:387:VAL:HG11	1.95	0.48
1:F:454:LYS:NZ	1:R:149:ASN:OD1	2.44	0.48
1:G:101:GLN:HE21	1:G:415:PHE:HA	1.79	0.48
1:G:266:THR:HA	1:I:173:GLN:HA	1.95	0.48
1:G:367:VAL:HG11	1:G:517:VAL:HG12	1.95	0.48
1:H:101:GLN:HE21	1:H:415:PHE:HA	1.78	0.48
1:H:142:ASP:OD1	1:H:143:SER:N	2.47	0.48
1:H:266:THR:HA	1:W:173:GLN:HA	1.95	0.48
1:H:485:HIS:CB	1:W:164:ARG:HG3	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:320:PRO:HD3	1:8:282:CYS:O	2.13	0.48
1:K:328:TYR:HD2	1:K:380:ARG:HG3	1.78	0.48
1:L:101:GLN:HE21	1:L:415:PHE:HA	1.79	0.48
1:M:198:ASN:ND2	1:M:201:GLY:O	2.45	0.48
1:N:109:ARG:HG3	1:N:110:ASP:N	2.29	0.48
1:N:149:ASN:OD1	1:m:454:LYS:NZ	2.43	0.48
1:O:109:ARG:HG3	1:O:110:ASP:N	2.29	0.48
1:O:142:ASP:OD1	1:O:143:SER:N	2.47	0.48
1:O:174:THR:HB	1:O:354:ILE:HD12	1.95	0.48
1:O:485:HIS:CB	1:m:164:ARG:HG3	2.42	0.48
1:P:35:THR:HG1	1:P:132:ASN:H	1.59	0.48
1:T:35:THR:HG1	1:T:132:ASN:H	1.59	0.48
1:T:164:ARG:HG3	1:l:485:HIS:CB	2.42	0.48
1:T:266:THR:HA	1:d:173:GLN:HA	1.95	0.48
1:T:395:PRO:HG2	1:l:387:VAL:HG11	1.95	0.48
1:U:149:ASN:ND2	1:e:150:ASP:OD1	2.29	0.48
1:W:109:ARG:HG3	1:W:110:ASP:N	2.29	0.48
1:Z:115:VAL:O	1:Z:249:ASN:ND2	2.39	0.48
1:c:101:GLN:HE21	1:c:415:PHE:HA	1.78	0.48
1:c:320:PRO:HD3	1:p:282:CYS:O	2.13	0.48
1:d:142:ASP:OD1	1:d:143:SER:N	2.47	0.48
1:i:109:ARG:HG3	1:i:110:ASP:N	2.29	0.48
1:i:266:THR:HA	1:j:173:GLN:HA	1.94	0.48
1:l:142:ASP:OD1	1:l:143:SER:N	2.47	0.48
1:q:109:ARG:HG3	1:q:110:ASP:N	2.29	0.48
1:q:174:THR:HB	1:q:354:ILE:HD12	1.95	0.48
1:t:101:GLN:HE21	1:t:415:PHE:HA	1.79	0.48
1:t:266:THR:HA	1:u:173:GLN:HA	1.95	0.48
1:t:346:LYS:HA	1:t:514:GLN:HA	1.94	0.48
1:y:35:THR:HG1	1:y:132:ASN:H	1.59	0.48
1:z:35:THR:HG1	1:z:132:ASN:H	1.58	0.48
1:1:272:ARG:NH2	1:2:301:ALA:O	2.37	0.48
1:1:387:VAL:HG11	1:2:395:PRO:HG2	1.95	0.48
1:3:101:GLN:HE21	1:3:415:PHE:HA	1.79	0.48
1:3:320:PRO:HD3	1:4:282:CYS:O	2.13	0.48
1:4:101:GLN:HE21	1:4:415:PHE:HA	1.79	0.48
1:5:142:ASP:OD1	1:5:143:SER:N	2.47	0.48
1:A:395:PRO:HG2	1:l:387:VAL:HG11	1.95	0.48
1:A:454:LYS:NZ	1:B:149:ASN:OD1	2.45	0.48
1:D:367:VAL:HG11	1:D:517:VAL:HG12	1.95	0.48
1:F:35:THR:HG1	1:F:132:ASN:H	1.59	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:125:ALA:H	1:F:476:GLU:HB2	1.78	0.48
1:F:320:PRO:HD3	1:Q:282:CYS:O	2.13	0.48
1:H:193:MET:HE3	1:Y:258:GLN:O	2.13	0.48
1:I:101:GLN:HE21	1:I:415:PHE:HA	1.79	0.48
1:K:282:CYS:O	1:a:320:PRO:HD3	2.13	0.48
1:L:174:THR:HB	1:L:354:ILE:HD12	1.95	0.48
1:N:499:ASP:HA	1:N:504:ARG:NH1	2.29	0.48
1:O:266:THR:HA	1:m:173:GLN:HA	1.95	0.48
1:P:101:GLN:HE21	1:P:415:PHE:HA	1.78	0.48
1:P:499:ASP:HA	1:P:504:ARG:NH1	2.29	0.48
1:Q:367:VAL:HG11	1:Q:517:VAL:HG12	1.95	0.48
1:S:115:VAL:O	1:S:249:ASN:ND2	2.39	0.48
1:S:142:ASP:OD1	1:S:143:SER:N	2.47	0.48
1:S:499:ASP:HA	1:S:504:ARG:NH1	2.29	0.48
1:T:101:GLN:HE21	1:T:415:PHE:HA	1.79	0.48
1:T:173:GLN:HA	1:l:266:THR:HA	1.95	0.48
1:Z:266:THR:HA	1:4:173:GLN:HA	1.95	0.48
1:c:367:VAL:HG11	1:c:517:VAL:HG12	1.95	0.48
1:e:101:GLN:HE21	1:e:415:PHE:HA	1.78	0.48
1:e:367:VAL:HG11	1:e:517:VAL:HG12	1.95	0.48
1:h:115:VAL:O	1:h:249:ASN:ND2	2.39	0.48
1:h:198:ASN:ND2	1:h:201:GLY:O	2.45	0.48
1:h:307:GLU:OE1	1:h:307:GLU:N	2.47	0.48
1:i:499:ASP:HA	1:i:504:ARG:NH1	2.29	0.48
1:j:499:ASP:HA	1:j:504:ARG:NH1	2.29	0.48
1:l:109:ARG:HG3	1:l:110:ASP:N	2.29	0.48
1:m:101:GLN:HE21	1:m:415:PHE:HA	1.79	0.48
1:m:266:THR:HA	1:n:173:GLN:HA	1.95	0.48
1:n:142:ASP:OD1	1:n:143:SER:N	2.47	0.48
1:n:367:VAL:HG11	1:n:517:VAL:HG12	1.95	0.48
1:r:499:ASP:HA	1:r:504:ARG:NH1	2.29	0.48
1:u:101:GLN:HE21	1:u:415:PHE:HA	1.79	0.48
1:u:367:VAL:HG11	1:u:517:VAL:HG12	1.95	0.48
1:u:387:VAL:HG11	1:v:395:PRO:HG2	1.95	0.48
1:v:101:GLN:HE21	1:v:415:PHE:HA	1.79	0.48
1:w:320:PRO:HD3	1:y:282:CYS:O	2.12	0.48
1:w:395:PRO:HG2	1:y:387:VAL:HG11	1.95	0.48
1:y:125:ALA:H	1:y:476:GLU:HB2	1.78	0.48
1:z:101:GLN:HE21	1:z:415:PHE:HA	1.79	0.48
1:6:109:ARG:HG3	1:6:110:ASP:N	2.29	0.48
1:B:454:LYS:NZ	1:C:149:ASN:OD1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:149:ASN:OD1	1:I:454:LYS:NZ	2.44	0.48
1:I:182:SER:OG	1:I:349:MET:SD	2.72	0.48
1:K:101:GLN:HE21	1:K:415:PHE:HA	1.79	0.48
1:K:142:ASP:OD1	1:K:143:SER:N	2.47	0.48
1:M:307:GLU:OE1	1:M:307:GLU:N	2.47	0.48
1:N:230:THR:HG21	1:m:152:THR:HG21	1.96	0.48
1:N:266:THR:HA	1:P:173:GLN:HA	1.94	0.48
1:O:499:ASP:HA	1:O:504:ARG:NH1	2.29	0.48
1:R:109:ARG:HG3	1:R:110:ASP:N	2.29	0.48
1:R:174:THR:HB	1:R:354:ILE:HD12	1.95	0.48
1:S:174:THR:HB	1:S:354:ILE:HD12	1.95	0.48
1:T:109:ARG:HG3	1:T:110:ASP:N	2.29	0.48
1:T:152:THR:HG21	1:i:230:THR:HG21	1.96	0.48
1:V:282:CYS:O	1:e:320:PRO:HD3	2.13	0.48
1:V:367:VAL:HG11	1:V:517:VAL:HG12	1.95	0.48
1:Z:387:VAL:HG11	1:4:395:PRO:HG2	1.95	0.48
1:d:367:VAL:HG11	1:d:517:VAL:HG12	1.95	0.48
1:g:149:ASN:OD1	1:l:454:LYS:NZ	2.44	0.48
1:k:367:VAL:HG11	1:k:517:VAL:HG12	1.95	0.48
1:l:328:TYR:HD2	1:l:380:ARG:HG3	1.78	0.48
1:l:499:ASP:HA	1:l:504:ARG:NH1	2.29	0.48
1:m:35:THR:HG1	1:m:132:ASN:H	1.59	0.48
1:m:109:ARG:HG3	1:m:110:ASP:N	2.29	0.48
1:m:125:ALA:H	1:m:476:GLU:HB2	1.78	0.48
1:r:142:ASP:OD1	1:r:143:SER:N	2.47	0.48
1:u:454:LYS:NZ	1:5:149:ASN:OD1	2.44	0.48
1:w:173:GLN:HA	1:y:266:THR:HA	1.95	0.48
1:x:282:CYS:O	1:y:320:PRO:HD3	2.13	0.48
1:2:109:ARG:HG3	1:2:110:ASP:N	2.29	0.48
1:4:328:TYR:HD2	1:4:380:ARG:HG3	1.78	0.48
1:5:317:ASP:OD1	1:5:317:ASP:N	2.43	0.48
1:5:395:PRO:HG2	1:7:387:VAL:HG11	1.95	0.48
1:A:173:GLN:HA	1:I:266:THR:HA	1.95	0.48
1:B:499:ASP:HA	1:B:504:ARG:NH1	2.29	0.48
1:D:387:VAL:HG11	1:N:395:PRO:HG2	1.95	0.48
1:H:109:ARG:HG3	1:H:110:ASP:N	2.29	0.48
1:H:317:ASP:OD1	1:H:317:ASP:N	2.43	0.48
1:J:109:ARG:HG3	1:J:110:ASP:N	2.29	0.48
1:K:173:GLN:HA	1:8:266:THR:HA	1.95	0.48
1:K:266:THR:HA	1:a:173:GLN:HA	1.95	0.48
1:K:395:PRO:HG2	1:8:387:VAL:HG11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:499:ASP:HA	1:L:504:ARG:NH1	2.29	0.48
1:M:106:PHE:O	1:M:414:TYR:OH	2.25	0.48
1:M:173:GLN:HA	1:b:266:THR:HA	1.95	0.48
1:O:173:GLN:HA	1:n:266:THR:HA	1.95	0.48
1:T:367:VAL:HG11	1:T:517:VAL:HG12	1.95	0.48
1:V:125:ALA:H	1:V:476:GLU:HB2	1.78	0.48
1:Y:35:THR:HG1	1:Y:132:ASN:H	1.59	0.48
1:Z:515:VAL:HG12	1:Z:517:VAL:HG23	1.96	0.48
1:e:307:GLU:N	1:e:307:GLU:OE1	2.47	0.48
1:g:173:GLN:HA	1:h:266:THR:HA	1.95	0.48
1:h:106:PHE:O	1:h:414:TYR:OH	2.25	0.48
1:i:395:PRO:HG2	1:k:387:VAL:HG11	1.95	0.48
1:j:101:GLN:HE21	1:j:415:PHE:HA	1.78	0.48
1:j:125:ALA:H	1:j:476:GLU:HB2	1.78	0.48
1:l:367:VAL:HG11	1:l:517:VAL:HG12	1.95	0.48
1:m:272:ARG:NH2	1:n:301:ALA:O	2.37	0.48
1:p:142:ASP:OD1	1:p:143:SER:N	2.47	0.48
1:p:174:THR:HB	1:p:354:ILE:HD12	1.95	0.48
1:q:515:VAL:HG12	1:q:517:VAL:HG23	1.96	0.48
1:r:174:THR:HB	1:r:354:ILE:HD12	1.95	0.48
1:s:142:ASP:OD1	1:s:143:SER:N	2.47	0.48
1:u:182:SER:OG	1:u:349:MET:SD	2.72	0.48
1:x:266:THR:HA	1:y:173:GLN:HA	1.95	0.48
1:x:328:TYR:HD2	1:x:380:ARG:HG3	1.78	0.48
1:x:367:VAL:HG11	1:x:517:VAL:HG12	1.95	0.48
1:z:174:THR:HB	1:z:354:ILE:HD12	1.95	0.48
1:z:499:ASP:HA	1:z:504:ARG:NH1	2.29	0.48
1:3:142:ASP:OD1	1:3:143:SER:N	2.47	0.48
1:3:173:GLN:HA	1:4:266:THR:HA	1.95	0.48
1:4:142:ASP:OD1	1:4:143:SER:N	2.47	0.48
1:4:174:THR:HB	1:4:354:ILE:HD12	1.95	0.48
1:5:193:MET:HE3	1:7:258:GLN:O	2.13	0.48
1:6:272:ARG:NH2	1:7:301:ALA:O	2.37	0.48
1:8:515:VAL:HG12	1:8:517:VAL:HG23	1.96	0.48
1:B:35:THR:HG1	1:B:132:ASN:H	1.59	0.48
1:B:142:ASP:OD1	1:B:143:SER:N	2.47	0.48
1:B:307:GLU:N	1:B:307:GLU:OE1	2.47	0.48
1:B:403:PRO:HD3	1:J:401:CYS:SG	2.54	0.48
1:C:173:GLN:HA	1:M:266:THR:HA	1.95	0.48
1:D:142:ASP:OD1	1:D:143:SER:N	2.47	0.48
1:F:173:GLN:HA	1:Q:266:THR:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:109:ARG:HG3	1:G:110:ASP:N	2.29	0.48
1:I:307:GLU:OE1	1:I:307:GLU:N	2.47	0.48
1:I:499:ASP:HA	1:I:504:ARG:NH1	2.29	0.48
1:J:515:VAL:HG12	1:J:517:VAL:HG23	1.96	0.48
1:K:174:THR:HB	1:K:354:ILE:HD12	1.95	0.48
1:M:125:ALA:H	1:M:476:GLU:HB2	1.78	0.48
1:N:125:ALA:H	1:N:476:GLU:HB2	1.78	0.48
1:N:174:THR:HB	1:N:354:ILE:HD12	1.95	0.48
1:N:403:PRO:HD3	1:P:401:CYS:SG	2.54	0.48
1:O:328:TYR:HD2	1:O:380:ARG:HG3	1.78	0.48
1:O:367:VAL:HG11	1:O:517:VAL:HG12	1.95	0.48
1:P:125:ALA:H	1:P:476:GLU:HB2	1.78	0.48
1:Q:328:TYR:HD2	1:Q:380:ARG:HG3	1.78	0.48
1:Q:515:VAL:HG12	1:Q:517:VAL:HG23	1.96	0.48
1:R:515:VAL:HG12	1:R:517:VAL:HG23	1.96	0.48
1:T:125:ALA:H	1:T:476:GLU:HB2	1.78	0.48
1:U:142:ASP:OD1	1:U:143:SER:N	2.47	0.48
1:V:142:ASP:OD1	1:V:143:SER:N	2.47	0.48
1:V:174:THR:HB	1:V:354:ILE:HD12	1.95	0.48
1:a:142:ASP:OD1	1:a:143:SER:N	2.47	0.48
1:b:142:ASP:OD1	1:b:143:SER:N	2.47	0.48
1:c:307:GLU:OE1	1:c:307:GLU:N	2.47	0.48
1:d:101:GLN:HE21	1:d:415:PHE:HA	1.79	0.48
1:d:266:THR:HA	1:l:173:GLN:HA	1.95	0.48
1:f:266:THR:HA	1:h:173:GLN:HA	1.95	0.48
1:i:174:THR:HB	1:i:354:ILE:HD12	1.95	0.48
1:i:403:PRO:HD3	1:j:401:CYS:SG	2.54	0.48
1:m:367:VAL:HG11	1:m:517:VAL:HG12	1.95	0.48
1:p:125:ALA:H	1:p:476:GLU:HB2	1.78	0.48
1:p:367:VAL:HG11	1:p:517:VAL:HG12	1.95	0.48
1:r:198:ASN:ND2	1:r:201:GLY:O	2.45	0.48
1:u:266:THR:HA	1:v:173:GLN:HA	1.95	0.48
1:u:307:GLU:N	1:u:307:GLU:OE1	2.47	0.48
1:u:499:ASP:HA	1:u:504:ARG:NH1	2.29	0.48
1:v:182:SER:OG	1:v:349:MET:SD	2.72	0.48
1:y:317:ASP:OD1	1:y:317:ASP:N	2.43	0.48
1:z:307:GLU:OE1	1:z:307:GLU:N	2.47	0.48
1:1:174:THR:HB	1:1:354:ILE:HD12	1.95	0.48
1:1:499:ASP:HA	1:1:504:ARG:NH1	2.29	0.48
1:2:384:MET:HE1	1:2:395:PRO:HD3	1.94	0.48
1:5:109:ARG:HG3	1:5:110:ASP:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:198:ASN:ND2	1:5:201:GLY:O	2.45	0.48
1:5:307:GLU:OE1	1:5:307:GLU:N	2.47	0.48
1:7:125:ALA:H	1:7:476:GLU:HB2	1.78	0.48
1:8:35:THR:HG1	1:8:132:ASN:H	1.59	0.48
1:A:182:SER:OG	1:A:349:MET:SD	2.72	0.47
1:A:285:ARG:O	1:G:170:TYR:OH	2.29	0.47
1:B:174:THR:HB	1:B:354:ILE:HD12	1.95	0.47
1:E:142:ASP:OD1	1:E:143:SER:N	2.47	0.47
1:F:317:ASP:OD1	1:F:317:ASP:N	2.43	0.47
1:H:198:ASN:ND2	1:H:201:GLY:O	2.45	0.47
1:H:307:GLU:OE1	1:H:307:GLU:N	2.47	0.47
1:J:384:MET:HE1	1:J:395:PRO:HD3	1.94	0.47
1:K:109:ARG:HG3	1:K:110:ASP:N	2.29	0.47
1:L:149:ASN:OD1	1:b:454:LYS:NZ	2.44	0.47
1:L:307:GLU:OE1	1:L:307:GLU:N	2.47	0.47
1:N:198:ASN:ND2	1:N:201:GLY:O	2.45	0.47
1:R:142:ASP:OD1	1:R:143:SER:N	2.47	0.47
1:R:307:GLU:N	1:R:307:GLU:OE1	2.47	0.47
1:S:198:ASN:ND2	1:S:201:GLY:O	2.45	0.47
1:S:307:GLU:OE1	1:S:307:GLU:N	2.47	0.47
1:W:307:GLU:N	1:W:307:GLU:OE1	2.47	0.47
1:Y:125:ALA:H	1:Y:476:GLU:HB2	1.78	0.47
1:Z:499:ASP:HA	1:Z:504:ARG:NH1	2.29	0.47
1:a:333:ASP:OD1	1:a:368:GLN:NE2	2.47	0.47
1:f:142:ASP:OD1	1:f:143:SER:N	2.47	0.47
1:i:125:ALA:H	1:i:476:GLU:HB2	1.78	0.47
1:i:535:ASN:HB3	1:j:424:GLU:CD	2.39	0.47
1:j:35:THR:HG1	1:j:132:ASN:H	1.59	0.47
1:k:125:ALA:H	1:k:476:GLU:HB2	1.78	0.47
1:k:142:ASP:OD1	1:k:143:SER:N	2.47	0.47
1:m:182:SER:OG	1:m:349:MET:SD	2.72	0.47
1:n:101:GLN:HE21	1:n:415:PHE:HA	1.79	0.47
1:q:307:GLU:OE1	1:q:307:GLU:N	2.47	0.47
1:r:307:GLU:OE1	1:r:307:GLU:N	2.47	0.47
1:t:109:ARG:HG3	1:t:110:ASP:N	2.29	0.47
1:u:142:ASP:OD1	1:u:143:SER:N	2.47	0.47
1:w:142:ASP:OD1	1:w:143:SER:N	2.47	0.47
1:w:285:ARG:O	1:x:170:TYR:OH	2.29	0.47
1:x:515:VAL:HG12	1:x:517:VAL:HG23	1.96	0.47
1:y:142:ASP:OD1	1:y:143:SER:N	2.47	0.47
1:y:307:GLU:OE1	1:y:307:GLU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:499:ASP:HA	1:y:504:ARG:NH1	2.29	0.47
1:1:142:ASP:OD1	1:1:143:SER:N	2.47	0.47
1:1:307:GLU:OE1	1:1:307:GLU:N	2.47	0.47
1:1:328:TYR:HD2	1:1:380:ARG:HG3	1.78	0.47
1:2:515:VAL:HG12	1:2:517:VAL:HG23	1.96	0.47
1:3:333:ASP:OD1	1:3:368:GLN:NE2	2.47	0.47
1:6:307:GLU:OE1	1:6:307:GLU:N	2.47	0.47
1:8:198:ASN:ND2	1:8:201:GLY:O	2.45	0.47
1:8:499:ASP:HA	1:8:504:ARG:NH1	2.29	0.47
1:B:109:ARG:HG3	1:B:110:ASP:N	2.29	0.47
1:B:328:TYR:HD2	1:B:380:ARG:HG3	1.78	0.47
1:F:142:ASP:OD1	1:F:143:SER:N	2.47	0.47
1:F:307:GLU:OE1	1:F:307:GLU:N	2.47	0.47
1:G:125:ALA:H	1:G:476:GLU:HB2	1.78	0.47
1:G:282:CYS:O	1:I:320:PRO:HD3	2.13	0.47
1:I:142:ASP:OD1	1:I:143:SER:N	2.47	0.47
1:K:152:THR:HG21	1:7:230:THR:HG21	1.96	0.47
1:K:387:VAL:HG11	1:a:395:PRO:HG2	1.95	0.47
1:N:535:ASN:HB3	1:P:424:GLU:CD	2.40	0.47
1:P:515:VAL:HG12	1:P:517:VAL:HG23	1.96	0.47
1:Q:101:GLN:HE21	1:Q:415:PHE:HA	1.79	0.47
1:R:387:VAL:HG11	1:S:395:PRO:HG2	1.95	0.47
1:S:333:ASP:OD1	1:S:368:GLN:NE2	2.47	0.47
1:T:307:GLU:OE1	1:T:307:GLU:N	2.47	0.47
1:U:109:ARG:HG3	1:U:110:ASP:N	2.29	0.47
1:a:307:GLU:OE1	1:a:307:GLU:N	2.47	0.47
1:b:499:ASP:HA	1:b:504:ARG:NH1	2.29	0.47
1:g:515:VAL:HG12	1:g:517:VAL:HG23	1.96	0.47
1:h:125:ALA:H	1:h:476:GLU:HB2	1.78	0.47
1:h:499:ASP:HA	1:h:504:ARG:NH1	2.29	0.47
1:h:515:VAL:HG12	1:h:517:VAL:HG23	1.96	0.47
1:i:198:ASN:ND2	1:i:201:GLY:O	2.45	0.47
1:i:307:GLU:OE1	1:i:307:GLU:N	2.47	0.47
1:j:515:VAL:HG12	1:j:517:VAL:HG23	1.96	0.47
1:k:276:ALA:HB1	1:k:284:TRP:CD1	2.50	0.47
1:q:142:ASP:OD1	1:q:143:SER:N	2.47	0.47
1:s:276:ALA:HB1	1:s:284:TRP:CD1	2.50	0.47
1:t:317:ASP:OD1	1:t:317:ASP:N	2.43	0.47
1:v:174:THR:HB	1:v:354:ILE:HD12	1.95	0.47
1:z:395:PRO:HG2	1:2:387:VAL:HG11	1.95	0.47
1:1:109:ARG:HG3	1:1:110:ASP:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:395:PRO:HG2	1:4:387:VAL:HG11	1.95	0.47
1:7:307:GLU:N	1:7:307:GLU:OE1	2.47	0.47
1:A:125:ALA:H	1:A:476:GLU:HB2	1.78	0.47
1:A:174:THR:HB	1:A:354:ILE:HD12	1.95	0.47
1:B:535:ASN:HB3	1:J:424:GLU:CD	2.39	0.47
1:D:125:ALA:H	1:D:476:GLU:HB2	1.78	0.47
1:D:276:ALA:HB1	1:D:284:TRP:CD1	2.50	0.47
1:D:401:CYS:SG	1:P:403:PRO:HD3	2.55	0.47
1:F:499:ASP:HA	1:F:504:ARG:NH1	2.29	0.47
1:F:515:VAL:HG12	1:F:517:VAL:HG23	1.96	0.47
1:H:276:ALA:HB1	1:H:284:TRP:CD1	2.50	0.47
1:I:276:ALA:HB1	1:I:284:TRP:CD1	2.50	0.47
1:J:35:THR:HG1	1:J:132:ASN:H	1.59	0.47
1:M:499:ASP:HA	1:M:504:ARG:NH1	2.29	0.47
1:M:515:VAL:HG12	1:M:517:VAL:HG23	1.96	0.47
1:N:307:GLU:OE1	1:N:307:GLU:N	2.47	0.47
1:Q:109:ARG:HG3	1:Q:110:ASP:N	2.29	0.47
1:T:182:SER:OG	1:T:349:MET:SD	2.72	0.47
1:T:272:ARG:NH2	1:d:301:ALA:O	2.37	0.47
1:Y:168:LEU:N	1:Y:446:HIS:HE1	2.10	0.47
1:Y:230:THR:HG21	1:4:152:THR:HG21	1.96	0.47
1:Y:307:GLU:OE1	1:Y:307:GLU:N	2.47	0.47
1:Z:198:ASN:ND2	1:Z:201:GLY:O	2.45	0.47
1:a:174:THR:HB	1:a:354:ILE:HD12	1.95	0.47
1:b:276:ALA:HB1	1:b:284:TRP:CD1	2.50	0.47
1:c:333:ASP:OD1	1:c:368:GLN:NE2	2.47	0.47
1:f:109:ARG:HG3	1:f:110:ASP:N	2.29	0.47
1:f:276:ALA:HB1	1:f:284:TRP:CD1	2.50	0.47
1:f:307:GLU:OE1	1:f:307:GLU:N	2.47	0.47
1:f:499:ASP:HA	1:f:504:ARG:NH1	2.29	0.47
1:g:125:ALA:H	1:g:476:GLU:HB2	1.78	0.47
1:j:403:PRO:HD3	1:k:401:CYS:SG	2.55	0.47
1:m:307:GLU:N	1:m:307:GLU:OE1	2.47	0.47
1:r:276:ALA:HB1	1:r:284:TRP:CD1	2.49	0.47
1:r:515:VAL:HG12	1:r:517:VAL:HG23	1.96	0.47
1:s:109:ARG:HG3	1:s:110:ASP:N	2.29	0.47
1:u:276:ALA:HB1	1:u:284:TRP:CD1	2.50	0.47
1:u:515:VAL:HG12	1:u:517:VAL:HG23	1.96	0.47
1:v:276:ALA:HB1	1:v:284:TRP:CD1	2.50	0.47
1:x:101:GLN:HE21	1:x:415:PHE:HA	1.79	0.47
1:y:515:VAL:HG12	1:y:517:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:35:THR:HG1	1:1:132:ASN:H	1.59	0.47
1:2:35:THR:HG1	1:2:132:ASN:H	1.59	0.47
1:3:307:GLU:OE1	1:3:307:GLU:N	2.47	0.47
1:4:109:ARG:HG3	1:4:110:ASP:N	2.29	0.47
1:4:367:VAL:HG11	1:4:517:VAL:HG12	1.95	0.47
1:5:276:ALA:HB1	1:5:284:TRP:CD1	2.50	0.47
1:5:424:GLU:CD	1:7:535:ASN:HB3	2.39	0.47
1:5:535:ASN:HB3	1:6:424:GLU:CD	2.39	0.47
1:A:276:ALA:HB1	1:A:284:TRP:CD1	2.50	0.47
1:B:515:VAL:HG12	1:B:517:VAL:HG23	1.96	0.47
1:C:515:VAL:HG12	1:C:517:VAL:HG23	1.96	0.47
1:E:266:THR:HA	1:Q:173:GLN:HA	1.95	0.47
1:G:307:GLU:N	1:G:307:GLU:OE1	2.47	0.47
1:G:317:ASP:OD1	1:G:317:ASP:N	2.43	0.47
1:G:515:VAL:HG12	1:G:517:VAL:HG23	1.96	0.47
1:H:150:ASP:OD1	1:Z:149:ASN:ND2	2.29	0.47
1:I:515:VAL:HG12	1:I:517:VAL:HG23	1.96	0.47
1:J:387:VAL:HG11	1:L:395:PRO:HG2	1.95	0.47
1:K:367:VAL:HG11	1:K:517:VAL:HG12	1.95	0.47
1:L:142:ASP:OD1	1:L:143:SER:N	2.47	0.47
1:L:276:ALA:HB1	1:L:284:TRP:CD1	2.50	0.47
1:M:109:ARG:HG3	1:M:110:ASP:N	2.29	0.47
1:O:276:ALA:HB1	1:O:284:TRP:CD1	2.50	0.47
1:Q:276:ALA:HB1	1:Q:284:TRP:CD1	2.50	0.47
1:S:515:VAL:HG12	1:S:517:VAL:HG23	1.96	0.47
1:U:230:THR:HG21	1:e:152:THR:HG21	1.97	0.47
1:U:276:ALA:HB1	1:U:284:TRP:CD1	2.50	0.47
1:Y:142:ASP:OD1	1:Y:143:SER:N	2.47	0.47
1:Z:35:THR:HG1	1:Z:132:ASN:H	1.59	0.47
1:b:109:ARG:HG3	1:b:110:ASP:N	2.29	0.47
1:b:307:GLU:N	1:b:307:GLU:OE1	2.47	0.47
1:c:152:THR:HG21	1:s:230:THR:HG21	1.97	0.47
1:c:430:LYS:NZ	1:o:428:GLN:O	2.39	0.47
1:d:515:VAL:HG12	1:d:517:VAL:HG23	1.96	0.47
1:e:333:ASP:OD1	1:e:368:GLN:NE2	2.47	0.47
1:h:109:ARG:HG3	1:h:110:ASP:N	2.29	0.47
1:h:142:ASP:OD1	1:h:143:SER:N	2.47	0.47
1:j:307:GLU:N	1:j:307:GLU:OE1	2.47	0.47
1:k:101:GLN:HE21	1:k:415:PHE:HA	1.78	0.47
1:l:276:ALA:HB1	1:l:284:TRP:CD1	2.50	0.47
1:o:333:ASP:OD1	1:o:368:GLN:NE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:333:ASP:OD1	1:r:368:GLN:NE2	2.48	0.47
1:t:125:ALA:H	1:t:476:GLU:HB2	1.78	0.47
1:t:282:CYS:O	1:u:320:PRO:HD3	2.13	0.47
1:t:307:GLU:OE1	1:t:307:GLU:N	2.47	0.47
1:v:125:ALA:H	1:v:476:GLU:HB2	1.78	0.47
1:w:266:THR:HA	1:x:173:GLN:HA	1.95	0.47
1:x:109:ARG:HG3	1:x:110:ASP:N	2.29	0.47
1:x:276:ALA:HB1	1:x:284:TRP:CD1	2.50	0.47
1:z:266:THR:HA	1:1:173:GLN:HA	1.95	0.47
1:z:276:ALA:HB1	1:z:284:TRP:CD1	2.50	0.47
1:3:174:THR:HB	1:3:354:ILE:HD12	1.95	0.47
1:5:174:THR:HB	1:5:354:ILE:HD12	1.95	0.47
1:7:168:LEU:N	1:7:446:HIS:HE1	2.10	0.47
1:A:103:SER:HA	1:A:414:TYR:CZ	2.50	0.47
1:A:333:ASP:OD1	1:A:368:GLN:NE2	2.47	0.47
1:B:152:THR:HG21	1:C:230:THR:HG21	1.96	0.47
1:B:168:LEU:N	1:B:446:HIS:HE1	2.10	0.47
1:B:173:GLN:HA	1:L:266:THR:HA	1.95	0.47
1:B:272:ARG:NH2	1:J:301:ALA:O	2.37	0.47
1:B:276:ALA:HB1	1:B:284:TRP:CD1	2.50	0.47
1:C:101:GLN:HE21	1:C:415:PHE:HA	1.79	0.47
1:C:125:ALA:H	1:C:476:GLU:HB2	1.78	0.47
1:D:101:GLN:HE21	1:D:415:PHE:HA	1.78	0.47
1:G:276:ALA:HB1	1:G:284:TRP:CD1	2.50	0.47
1:H:174:THR:HB	1:H:354:ILE:HD12	1.95	0.47
1:H:230:THR:HG21	1:I:152:THR:HG21	1.97	0.47
1:H:333:ASP:OD1	1:H:368:GLN:NE2	2.47	0.47
1:H:515:VAL:HG12	1:H:517:VAL:HG23	1.96	0.47
1:I:230:THR:HG21	1:J:152:THR:HG21	1.97	0.47
1:K:333:ASP:OD1	1:K:368:GLN:NE2	2.47	0.47
1:L:109:ARG:HG3	1:L:110:ASP:N	2.29	0.47
1:M:142:ASP:OD1	1:M:143:SER:N	2.47	0.47
1:M:182:SER:OG	1:M:349:MET:SD	2.72	0.47
1:O:101:GLN:HE21	1:O:415:PHE:HA	1.79	0.47
1:Q:103:SER:HA	1:Q:414:TYR:CZ	2.50	0.47
1:Q:333:ASP:OD1	1:Q:368:GLN:NE2	2.48	0.47
1:S:125:ALA:H	1:S:476:GLU:HB2	1.78	0.47
1:S:276:ALA:HB1	1:S:284:TRP:CD1	2.50	0.47
1:T:276:ALA:HB1	1:T:284:TRP:CD1	2.50	0.47
1:U:182:SER:OG	1:U:349:MET:SD	2.72	0.47
1:U:333:ASP:OD1	1:U:368:GLN:NE2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:333:ASP:OD1	1:X:368:GLN:NE2	2.48	0.47
1:a:515:VAL:HG12	1:a:517:VAL:HG23	1.96	0.47
1:c:499:ASP:HA	1:c:504:ARG:NH1	2.29	0.47
1:d:499:ASP:HA	1:d:504:ARG:NH1	2.29	0.47
1:e:109:ARG:HG3	1:e:110:ASP:N	2.29	0.47
1:e:270:ASN:HD21	1:e:274:ASP:HB2	1.80	0.47
1:g:109:ARG:HG3	1:g:110:ASP:N	2.29	0.47
1:n:515:VAL:HG12	1:n:517:VAL:HG23	1.96	0.47
1:q:387:VAL:HG11	1:r:395:PRO:HG2	1.95	0.47
1:s:182:SER:OG	1:s:349:MET:SD	2.72	0.47
1:s:307:GLU:OE1	1:s:307:GLU:N	2.47	0.47
1:s:333:ASP:OD1	1:s:368:GLN:NE2	2.47	0.47
1:t:276:ALA:HB1	1:t:284:TRP:CD1	2.50	0.47
1:t:333:ASP:OD1	1:t:368:GLN:NE2	2.47	0.47
1:t:515:VAL:HG12	1:t:517:VAL:HG23	1.96	0.47
1:u:109:ARG:HG3	1:u:110:ASP:N	2.29	0.47
1:u:230:THR:HG21	1:2:152:THR:HG21	1.97	0.47
1:v:103:SER:HA	1:v:414:TYR:CZ	2.50	0.47
1:v:333:ASP:OD1	1:v:368:GLN:NE2	2.47	0.47
1:w:515:VAL:HG12	1:w:517:VAL:HG23	1.96	0.47
1:x:103:SER:HA	1:x:414:TYR:CZ	2.50	0.47
1:x:333:ASP:OD1	1:x:368:GLN:NE2	2.48	0.47
1:1:515:VAL:HG12	1:1:517:VAL:HG23	1.96	0.47
1:3:499:ASP:HA	1:3:504:ARG:NH1	2.29	0.47
1:7:142:ASP:OD1	1:7:143:SER:N	2.47	0.47
1:A:266:THR:HA	1:G:173:GLN:HA	1.95	0.47
1:C:109:ARG:HG3	1:C:110:ASP:N	2.29	0.47
1:C:276:ALA:HB1	1:C:284:TRP:CD1	2.50	0.47
1:D:333:ASP:OD1	1:D:368:GLN:NE2	2.47	0.47
1:E:515:VAL:HG12	1:E:517:VAL:HG23	1.96	0.47
1:F:230:THR:HG21	1:G:152:THR:HG21	1.97	0.47
1:F:270:ASN:HD21	1:F:274:ASP:HB2	1.80	0.47
1:F:276:ALA:HB1	1:F:284:TRP:CD1	2.50	0.47
1:I:115:VAL:O	1:I:249:ASN:ND2	2.39	0.47
1:J:125:ALA:H	1:J:476:GLU:HB2	1.78	0.47
1:L:333:ASP:OD1	1:L:368:GLN:NE2	2.48	0.47
1:P:103:SER:HA	1:P:414:TYR:CZ	2.50	0.47
1:P:307:GLU:OE1	1:P:307:GLU:N	2.47	0.47
1:Q:230:THR:HG21	1:S:152:THR:HG21	1.97	0.47
1:R:125:ALA:H	1:R:476:GLU:HB2	1.78	0.47
1:T:103:SER:HA	1:T:414:TYR:CZ	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:230:THR:HG21	1:U:152:THR:HG21	1.97	0.47
1:V:515:VAL:HG12	1:V:517:VAL:HG23	1.96	0.47
1:X:307:GLU:OE1	1:X:307:GLU:N	2.47	0.47
1:Z:103:SER:HA	1:Z:414:TYR:CZ	2.50	0.47
1:a:103:SER:HA	1:a:414:TYR:CZ	2.50	0.47
1:a:499:ASP:HA	1:a:504:ARG:NH1	2.29	0.47
1:b:230:THR:HG21	1:o:152:THR:HG21	1.97	0.47
1:c:109:ARG:HG3	1:c:110:ASP:N	2.29	0.47
1:d:109:ARG:HG3	1:d:110:ASP:N	2.29	0.47
1:e:499:ASP:HA	1:e:504:ARG:NH1	2.29	0.47
1:f:125:ALA:H	1:f:476:GLU:HB2	1.78	0.47
1:f:182:SER:OG	1:f:349:MET:SD	2.72	0.47
1:g:333:ASP:OD1	1:g:368:GLN:NE2	2.47	0.47
1:h:101:GLN:HE21	1:h:415:PHE:HA	1.79	0.47
1:i:276:ALA:HB1	1:i:284:TRP:CD1	2.50	0.47
1:j:103:SER:HA	1:j:414:TYR:CZ	2.50	0.47
1:m:103:SER:HA	1:m:414:TYR:CZ	2.50	0.47
1:m:142:ASP:OD1	1:m:143:SER:N	2.47	0.47
1:m:230:THR:HG21	1:s:152:THR:HG21	1.97	0.47
1:m:276:ALA:HB1	1:m:284:TRP:CD1	2.50	0.47
1:n:109:ARG:HG3	1:n:110:ASP:N	2.29	0.47
1:n:276:ALA:HB1	1:n:284:TRP:CD1	2.50	0.47
1:n:499:ASP:HA	1:n:504:ARG:NH1	2.29	0.47
1:o:109:ARG:HG3	1:o:110:ASP:N	2.29	0.47
1:o:307:GLU:OE1	1:o:307:GLU:N	2.47	0.47
1:p:499:ASP:HA	1:p:504:ARG:NH1	2.29	0.47
1:p:515:VAL:HG12	1:p:517:VAL:HG23	1.96	0.47
1:v:317:ASP:OD1	1:v:317:ASP:N	2.43	0.47
1:w:174:THR:HB	1:w:354:ILE:HD12	1.95	0.47
1:z:109:ARG:HG3	1:z:110:ASP:N	2.29	0.47
1:z:125:ALA:H	1:z:476:GLU:HB2	1.78	0.47
1:z:142:ASP:OD1	1:z:143:SER:N	2.47	0.47
1:1:168:LEU:N	1:1:446:HIS:HE1	2.10	0.47
1:1:276:ALA:HB1	1:1:284:TRP:CD1	2.50	0.47
1:3:103:SER:HA	1:3:414:TYR:CZ	2.50	0.47
1:3:515:VAL:HG12	1:3:517:VAL:HG23	1.96	0.47
1:4:333:ASP:OD1	1:4:368:GLN:NE2	2.48	0.47
1:5:515:VAL:HG12	1:5:517:VAL:HG23	1.96	0.47
1:A:142:ASP:OD1	1:A:143:SER:N	2.47	0.47
1:A:149:ASN:OD1	1:E:454:LYS:NZ	2.44	0.47
1:A:230:THR:HG21	1:E:152:THR:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:424:GLU:CD	1:I:535:ASN:HB3	2.40	0.47
1:A:499:ASP:HA	1:A:504:ARG:NH1	2.29	0.47
1:B:367:VAL:HG11	1:B:517:VAL:HG12	1.95	0.47
1:C:142:ASP:OD1	1:C:143:SER:N	2.47	0.47
1:D:182:SER:OG	1:D:349:MET:SD	2.72	0.47
1:D:380:ARG:N	1:N:313:ALA:O	2.39	0.47
1:D:403:PRO:HD3	1:N:401:CYS:SG	2.55	0.47
1:D:535:ASN:HB3	1:N:424:GLU:CD	2.40	0.47
1:E:109:ARG:HG3	1:E:110:ASP:N	2.29	0.47
1:E:174:THR:HB	1:E:354:ILE:HD12	1.95	0.47
1:E:424:GLU:CD	1:F:535:ASN:HB3	2.40	0.47
1:E:535:ASN:HB3	1:Q:424:GLU:CD	2.40	0.47
1:F:301:ALA:O	1:Q:272:ARG:NH2	2.37	0.47
1:G:142:ASP:OD1	1:G:143:SER:N	2.47	0.47
1:G:270:ASN:HD21	1:G:274:ASP:HB2	1.80	0.47
1:G:333:ASP:OD1	1:G:368:GLN:NE2	2.48	0.47
1:H:424:GLU:CD	1:Y:535:ASN:HB3	2.39	0.47
1:H:535:ASN:HB3	1:W:424:GLU:CD	2.40	0.47
1:I:103:SER:HA	1:I:414:TYR:CZ	2.50	0.47
1:I:109:ARG:HG3	1:I:110:ASP:N	2.29	0.47
1:I:333:ASP:OD1	1:I:368:GLN:NE2	2.48	0.47
1:J:333:ASP:OD1	1:J:368:GLN:NE2	2.48	0.47
1:K:170:TYR:OH	1:8:285:ARG:O	2.29	0.47
1:L:125:ALA:H	1:L:476:GLU:HB2	1.78	0.47
1:L:515:VAL:HG12	1:L:517:VAL:HG23	1.96	0.47
1:M:101:GLN:HE21	1:M:415:PHE:HA	1.79	0.47
1:M:230:THR:HG21	1:N:152:THR:HG21	1.97	0.47
1:N:142:ASP:OD1	1:N:143:SER:N	2.47	0.47
1:N:276:ALA:HB1	1:N:284:TRP:CD1	2.50	0.47
1:O:307:GLU:N	1:O:307:GLU:OE1	2.47	0.47
1:P:142:ASP:OD1	1:P:143:SER:N	2.47	0.47
1:P:270:ASN:HD21	1:P:274:ASP:HB2	1.80	0.47
1:Q:142:ASP:OD1	1:Q:143:SER:N	2.47	0.47
1:Q:499:ASP:HA	1:Q:504:ARG:NH1	2.29	0.47
1:R:333:ASP:OD1	1:R:368:GLN:NE2	2.47	0.47
1:R:403:PRO:HD3	1:S:401:CYS:SG	2.55	0.47
1:R:424:GLU:CD	1:U:535:ASN:HB3	2.40	0.47
1:S:109:ARG:HG3	1:S:110:ASP:N	2.29	0.47
1:S:270:ASN:HD21	1:S:274:ASP:HB2	1.80	0.47
1:T:142:ASP:OD1	1:T:143:SER:N	2.47	0.47
1:T:333:ASP:OD1	1:T:368:GLN:NE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:515:VAL:HG12	1:T:517:VAL:HG23	1.96	0.47
1:T:535:ASN:HB3	1:d:424:GLU:CD	2.40	0.47
1:U:307:GLU:OE1	1:U:307:GLU:N	2.47	0.47
1:U:499:ASP:HA	1:U:504:ARG:NH1	2.29	0.47
1:V:109:ARG:HG3	1:V:110:ASP:N	2.29	0.47
1:V:276:ALA:HB1	1:V:284:TRP:CD1	2.50	0.47
1:V:333:ASP:OD1	1:V:368:GLN:NE2	2.47	0.47
1:V:401:CYS:SG	1:X:403:PRO:HD3	2.55	0.47
1:V:499:ASP:HA	1:V:504:ARG:NH1	2.29	0.47
1:W:103:SER:HA	1:W:414:TYR:CZ	2.50	0.47
1:W:333:ASP:OD1	1:W:368:GLN:NE2	2.47	0.47
1:X:109:ARG:HG3	1:X:110:ASP:N	2.29	0.47
1:X:152:THR:HG21	1:f:230:THR:HG21	1.97	0.47
1:X:428:GLN:O	1:e:430:LYS:NZ	2.39	0.47
1:Y:276:ALA:HB1	1:Y:284:TRP:CD1	2.50	0.47
1:Z:285:ARG:O	1:4:170:TYR:OH	2.29	0.47
1:Z:307:GLU:N	1:Z:307:GLU:OE1	2.47	0.47
1:Z:333:ASP:OD1	1:Z:368:GLN:NE2	2.48	0.47
1:b:125:ALA:H	1:b:476:GLU:HB2	1.78	0.47
1:b:198:ASN:ND2	1:b:201:GLY:O	2.45	0.47
1:c:35:THR:HG1	1:c:132:ASN:H	1.59	0.47
1:c:125:ALA:H	1:c:476:GLU:HB2	1.78	0.47
1:c:270:ASN:HD21	1:c:274:ASP:HB2	1.80	0.47
1:d:270:ASN:HD21	1:d:274:ASP:HB2	1.80	0.47
1:d:276:ALA:HB1	1:d:284:TRP:CD1	2.50	0.47
1:d:333:ASP:OD1	1:d:368:GLN:NE2	2.47	0.47
1:f:103:SER:HA	1:f:414:TYR:CZ	2.50	0.47
1:f:152:THR:HG21	1:z:230:THR:HG21	1.97	0.47
1:g:101:GLN:HE21	1:g:415:PHE:HA	1.79	0.47
1:g:142:ASP:OD1	1:g:143:SER:N	2.47	0.47
1:g:276:ALA:HB1	1:g:284:TRP:CD1	2.50	0.47
1:h:182:SER:OG	1:h:349:MET:SD	2.72	0.47
1:h:230:THR:HG21	1:i:152:THR:HG21	1.97	0.47
1:i:401:CYS:SG	1:k:403:PRO:HD3	2.55	0.47
1:i:424:GLU:CD	1:k:535:ASN:HB3	2.40	0.47
1:j:142:ASP:OD1	1:j:143:SER:N	2.47	0.47
1:j:270:ASN:HD21	1:j:274:ASP:HB2	1.80	0.47
1:k:182:SER:OG	1:k:349:MET:SD	2.72	0.47
1:k:333:ASP:OD1	1:k:368:GLN:NE2	2.47	0.47
1:l:101:GLN:HE21	1:l:415:PHE:HA	1.79	0.47
1:l:317:ASP:OD1	1:l:317:ASP:N	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:333:ASP:OD1	1:m:368:GLN:NE2	2.47	0.47
1:m:535:ASN:HB3	1:n:424:GLU:CD	2.40	0.47
1:n:270:ASN:HD21	1:n:274:ASP:HB2	1.80	0.47
1:n:333:ASP:OD1	1:n:368:GLN:NE2	2.47	0.47
1:o:403:PRO:HD3	1:p:401:CYS:SG	2.55	0.47
1:p:276:ALA:HB1	1:p:284:TRP:CD1	2.50	0.47
1:q:230:THR:HG21	1:y:152:THR:HG21	1.97	0.47
1:q:333:ASP:OD1	1:q:368:GLN:NE2	2.48	0.47
1:q:403:PRO:HD3	1:r:401:CYS:SG	2.55	0.47
1:r:109:ARG:HG3	1:r:110:ASP:N	2.29	0.47
1:r:125:ALA:H	1:r:476:GLU:HB2	1.78	0.47
1:r:152:THR:HG21	1:x:230:THR:HG21	1.97	0.47
1:r:270:ASN:HD21	1:r:274:ASP:HB2	1.80	0.47
1:t:152:THR:HG21	1:y:230:THR:HG21	1.97	0.47
1:t:173:GLN:HA	1:v:266:THR:HA	1.95	0.47
1:t:270:ASN:HD21	1:t:274:ASP:HB2	1.80	0.47
1:u:103:SER:HA	1:u:414:TYR:CZ	2.50	0.47
1:u:333:ASP:OD1	1:u:368:GLN:NE2	2.48	0.47
1:u:535:ASN:HB3	1:v:424:GLU:CD	2.40	0.47
1:v:142:ASP:OD1	1:v:143:SER:N	2.47	0.47
1:v:149:ASN:OD1	1:w:454:LYS:NZ	2.44	0.47
1:v:230:THR:HG21	1:w:152:THR:HG21	1.97	0.47
1:v:499:ASP:HA	1:v:504:ARG:NH1	2.29	0.47
1:w:101:GLN:HE21	1:w:415:PHE:HA	1.79	0.47
1:w:109:ARG:HG3	1:w:110:ASP:N	2.29	0.47
1:w:424:GLU:CD	1:y:535:ASN:HB3	2.40	0.47
1:w:535:ASN:HB3	1:x:424:GLU:CD	2.40	0.47
1:y:270:ASN:HD21	1:y:274:ASP:HB2	1.80	0.47
1:y:276:ALA:HB1	1:y:284:TRP:CD1	2.50	0.47
1:z:333:ASP:OD1	1:z:368:GLN:NE2	2.47	0.47
1:1:403:PRO:HD3	1:2:401:CYS:SG	2.55	0.47
1:5:150:ASP:OD1	1:8:149:ASN:ND2	2.29	0.47
1:5:333:ASP:OD1	1:5:368:GLN:NE2	2.47	0.47
1:6:103:SER:HA	1:6:414:TYR:CZ	2.50	0.47
1:6:333:ASP:OD1	1:6:368:GLN:NE2	2.47	0.47
1:6:403:PRO:HD3	1:7:401:CYS:SG	2.55	0.47
1:7:276:ALA:HB1	1:7:284:TRP:CD1	2.50	0.47
1:8:103:SER:HA	1:8:414:TYR:CZ	2.50	0.47
1:8:109:ARG:HG3	1:8:110:ASP:N	2.29	0.47
1:8:307:GLU:OE1	1:8:307:GLU:N	2.47	0.47
1:8:333:ASP:OD1	1:8:368:GLN:NE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:317:ASP:OD1	1:A:317:ASP:N	2.43	0.47
1:A:401:CYS:SG	1:I:403:PRO:HD3	2.55	0.47
1:B:401:CYS:SG	1:L:403:PRO:HD3	2.55	0.47
1:C:333:ASP:OD1	1:C:368:GLN:NE2	2.48	0.47
1:E:101:GLN:HE21	1:E:415:PHE:HA	1.79	0.47
1:F:152:THR:HG21	1:R:230:THR:HG21	1.97	0.47
1:F:333:ASP:OD1	1:F:368:GLN:NE2	2.47	0.47
1:G:535:ASN:HB3	1:I:424:GLU:CD	2.40	0.47
1:H:103:SER:HA	1:H:414:TYR:CZ	2.50	0.47
1:J:142:ASP:OD1	1:J:143:SER:N	2.47	0.47
1:J:149:ASN:OD1	1:a:454:LYS:NZ	2.44	0.47
1:J:270:ASN:HD21	1:J:274:ASP:HB2	1.80	0.47
1:J:307:GLU:N	1:J:307:GLU:OE1	2.47	0.47
1:L:230:THR:HG21	1:b:152:THR:HG21	1.97	0.47
1:M:152:THR:HG21	1:c:230:THR:HG21	1.97	0.47
1:M:424:GLU:CD	1:b:535:ASN:HB3	2.40	0.47
1:P:230:THR:HG21	1:Q:152:THR:HG21	1.97	0.47
1:Q:182:SER:OG	1:Q:349:MET:SD	2.72	0.47
1:U:101:GLN:HE21	1:U:415:PHE:HA	1.79	0.47
1:U:168:LEU:N	1:U:446:HIS:HE1	2.10	0.47
1:V:198:ASN:ND2	1:V:201:GLY:O	2.45	0.47
1:V:307:GLU:OE1	1:V:307:GLU:N	2.47	0.47
1:V:535:ASN:HB3	1:e:424:GLU:CD	2.40	0.47
1:W:403:PRO:HD3	1:Y:401:CYS:SG	2.55	0.47
1:W:535:ASN:HB3	1:Y:424:GLU:CD	2.40	0.47
1:Z:270:ASN:HD21	1:Z:274:ASP:HB2	1.80	0.47
1:b:103:SER:HA	1:b:414:TYR:CZ	2.50	0.47
1:b:333:ASP:OD1	1:b:368:GLN:NE2	2.47	0.47
1:c:424:GLU:CD	1:p:535:ASN:HB3	2.40	0.47
1:e:230:THR:HG21	1:h:152:THR:HG21	1.97	0.47
1:f:333:ASP:OD1	1:f:368:GLN:NE2	2.47	0.47
1:f:535:ASN:HB3	1:h:424:GLU:CD	2.40	0.47
1:i:142:ASP:OD1	1:i:143:SER:N	2.47	0.47
1:m:515:VAL:HG12	1:m:517:VAL:HG23	1.96	0.47
1:n:182:SER:OG	1:n:349:MET:SD	2.72	0.47
1:p:109:ARG:HG3	1:p:110:ASP:N	2.29	0.47
1:q:125:ALA:H	1:q:476:GLU:HB2	1.78	0.47
1:q:424:GLU:CD	1:s:535:ASN:HB3	2.40	0.47
1:t:535:ASN:HB3	1:u:424:GLU:CD	2.40	0.47
1:u:152:THR:HG21	1:5:230:THR:HG21	1.97	0.47
1:u:270:ASN:HD21	1:u:274:ASP:HB2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:152:THR:HG21	1:1:230:THR:HG21	1.97	0.47
1:w:276:ALA:HB1	1:w:284:TRP:CD1	2.50	0.47
1:x:142:ASP:OD1	1:x:143:SER:N	2.47	0.47
1:x:182:SER:OG	1:x:349:MET:SD	2.72	0.47
1:x:499:ASP:HA	1:x:504:ARG:NH1	2.29	0.47
1:z:515:VAL:HG12	1:z:517:VAL:HG23	1.96	0.47
1:1:198:ASN:ND2	1:1:201:GLY:O	2.45	0.47
1:1:367:VAL:HG11	1:1:517:VAL:HG12	1.95	0.47
1:2:125:ALA:H	1:2:476:GLU:HB2	1.78	0.47
1:2:142:ASP:OD1	1:2:143:SER:N	2.47	0.47
1:2:333:ASP:OD1	1:2:368:GLN:NE2	2.47	0.47
1:4:198:ASN:ND2	1:4:201:GLY:O	2.45	0.47
1:5:103:SER:HA	1:5:414:TYR:CZ	2.50	0.47
1:6:276:ALA:HB1	1:6:284:TRP:CD1	2.50	0.47
1:C:401:CYS:SG	1:M:403:PRO:HD3	2.55	0.47
1:C:499:ASP:HA	1:C:504:ARG:NH1	2.29	0.47
1:D:307:GLU:OE1	1:D:307:GLU:N	2.47	0.47
1:E:276:ALA:HB1	1:E:284:TRP:CD1	2.50	0.47
1:G:103:SER:HA	1:G:414:TYR:CZ	2.50	0.47
1:I:270:ASN:HD21	1:I:274:ASP:HB2	1.80	0.47
1:J:103:SER:HA	1:J:414:TYR:CZ	2.50	0.47
1:J:276:ALA:HB1	1:J:284:TRP:CD1	2.50	0.47
1:K:270:ASN:HD21	1:K:274:ASP:HB2	1.80	0.47
1:K:424:GLU:CD	1:8:535:ASN:HB3	2.40	0.47
1:K:499:ASP:HA	1:K:504:ARG:NH1	2.29	0.47
1:N:317:ASP:OD1	1:N:317:ASP:N	2.43	0.47
1:P:333:ASP:OD1	1:P:368:GLN:NE2	2.47	0.47
1:W:276:ALA:HB1	1:W:284:TRP:CD1	2.50	0.47
1:Y:515:VAL:HG12	1:Y:517:VAL:HG23	1.96	0.47
1:Z:109:ARG:HG3	1:Z:110:ASP:N	2.29	0.47
1:b:270:ASN:HD21	1:b:274:ASP:HB2	1.80	0.47
1:c:401:CYS:SG	1:p:403:PRO:HD3	2.55	0.47
1:e:125:ALA:H	1:e:476:GLU:HB2	1.78	0.47
1:e:142:ASP:OD1	1:e:143:SER:N	2.47	0.47
1:e:515:VAL:HG12	1:e:517:VAL:HG23	1.96	0.47
1:f:150:ASP:OD1	1:z:149:ASN:ND2	2.29	0.47
1:f:198:ASN:ND2	1:f:201:GLY:O	2.45	0.47
1:f:270:ASN:HD21	1:f:274:ASP:HB2	1.80	0.47
1:g:401:CYS:SG	1:h:403:PRO:HD3	2.55	0.47
1:i:101:GLN:HE21	1:i:415:PHE:HA	1.78	0.47
1:j:333:ASP:OD1	1:j:368:GLN:NE2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:307:GLU:OE1	1:k:307:GLU:N	2.47	0.47
1:l:307:GLU:OE1	1:l:307:GLU:N	2.47	0.47
1:p:307:GLU:OE1	1:p:307:GLU:N	2.47	0.47
1:p:333:ASP:OD1	1:p:368:GLN:NE2	2.48	0.47
1:s:168:LEU:N	1:s:446:HIS:HE1	2.10	0.47
1:t:103:SER:HA	1:t:414:TYR:CZ	2.50	0.47
1:t:142:ASP:OD1	1:t:143:SER:N	2.47	0.47
1:u:323:PRO:HA	1:u:336:GLU:O	2.15	0.47
1:u:403:PRO:HD3	1:v:401:CYS:SG	2.55	0.47
1:y:109:ARG:HG3	1:y:110:ASP:N	2.29	0.47
1:y:333:ASP:OD1	1:y:368:GLN:NE2	2.47	0.47
1:z:403:PRO:HD3	1:1:401:CYS:SG	2.55	0.47
1:2:149:ASN:OD1	1:3:454:LYS:NZ	2.44	0.47
1:2:270:ASN:HD21	1:2:274:ASP:HB2	1.80	0.47
1:2:307:GLU:OE1	1:2:307:GLU:N	2.47	0.47
1:4:499:ASP:HA	1:4:504:ARG:NH1	2.29	0.47
1:6:535:ASN:HB3	1:7:424:GLU:CD	2.40	0.47
1:8:270:ASN:HD21	1:8:274:ASP:HB2	1.80	0.47
1:B:323:PRO:HA	1:B:336:GLU:O	2.15	0.47
1:C:270:ASN:HD21	1:C:274:ASP:HB2	1.80	0.47
1:E:333:ASP:OD1	1:E:368:GLN:NE2	2.48	0.47
1:E:403:PRO:HD3	1:Q:401:CYS:SG	2.55	0.47
1:F:109:ARG:HG3	1:F:110:ASP:N	2.29	0.47
1:H:401:CYS:SG	1:Y:403:PRO:HD3	2.54	0.47
1:H:403:PRO:HD3	1:W:401:CYS:SG	2.55	0.47
1:I:323:PRO:HA	1:I:336:GLU:O	2.15	0.47
1:J:499:ASP:HA	1:J:504:ARG:NH1	2.29	0.47
1:K:182:SER:OG	1:K:349:MET:SD	2.72	0.47
1:K:198:ASN:ND2	1:K:201:GLY:O	2.45	0.47
1:K:515:VAL:HG12	1:K:517:VAL:HG23	1.96	0.47
1:M:323:PRO:HA	1:M:336:GLU:O	2.15	0.47
1:M:333:ASP:OD1	1:M:368:GLN:NE2	2.48	0.47
1:N:323:PRO:HA	1:N:336:GLU:O	2.15	0.47
1:O:317:ASP:OD1	1:O:317:ASP:N	2.43	0.47
1:P:109:ARG:HG3	1:P:110:ASP:N	2.29	0.47
1:T:149:ASN:ND2	1:U:150:ASP:OD1	2.29	0.47
1:T:323:PRO:HA	1:T:336:GLU:O	2.15	0.47
1:U:270:ASN:HD21	1:U:274:ASP:HB2	1.80	0.47
1:V:403:PRO:HD3	1:e:401:CYS:SG	2.55	0.47
1:X:101:GLN:HE21	1:X:415:PHE:HA	1.79	0.47
1:X:142:ASP:OD1	1:X:143:SER:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:270:ASN:HD21	1:X:274:ASP:HB2	1.80	0.47
1:X:323:PRO:HA	1:X:336:GLU:O	2.15	0.47
1:X:515:VAL:HG12	1:X:517:VAL:HG23	1.96	0.47
1:Y:103:SER:HA	1:Y:414:TYR:CZ	2.50	0.47
1:Z:276:ALA:HB1	1:Z:284:TRP:CD1	2.50	0.47
1:a:198:ASN:ND2	1:a:201:GLY:O	2.45	0.47
1:a:276:ALA:HB1	1:a:284:TRP:CD1	2.50	0.47
1:c:142:ASP:OD1	1:c:143:SER:N	2.47	0.47
1:c:515:VAL:HG12	1:c:517:VAL:HG23	1.96	0.47
1:c:535:ASN:HB3	1:o:424:GLU:CD	2.40	0.47
1:e:103:SER:HA	1:e:414:TYR:CZ	2.50	0.47
1:g:230:THR:HG21	1:1:152:THR:HG21	1.96	0.47
1:g:270:ASN:HD21	1:g:274:ASP:HB2	1.80	0.47
1:g:499:ASP:HA	1:g:504:ARG:NH1	2.29	0.47
1:h:333:ASP:OD1	1:h:368:GLN:NE2	2.48	0.47
1:i:313:ALA:O	1:k:380:ARG:N	2.39	0.47
1:j:230:THR:HG21	1:x:152:THR:HG21	1.97	0.47
1:l:152:THR:HG21	1:n:230:THR:HG21	1.97	0.47
1:m:323:PRO:HA	1:m:336:GLU:O	2.15	0.47
1:o:323:PRO:HA	1:o:336:GLU:O	2.15	0.47
1:p:198:ASN:ND2	1:p:201:GLY:O	2.45	0.47
1:p:323:PRO:HA	1:p:336:GLU:O	2.15	0.47
1:r:535:ASN:HB3	1:s:424:GLU:CD	2.40	0.47
1:s:101:GLN:HE21	1:s:415:PHE:HA	1.79	0.47
1:s:270:ASN:HD21	1:s:274:ASP:HB2	1.80	0.47
1:t:403:PRO:HD3	1:u:401:CYS:SG	2.55	0.47
1:v:515:VAL:HG12	1:v:517:VAL:HG23	1.96	0.47
1:w:333:ASP:OD1	1:w:368:GLN:NE2	2.48	0.47
1:w:403:PRO:HD3	1:x:401:CYS:SG	2.55	0.47
1:x:272:ARG:NH2	1:y:301:ALA:O	2.37	0.47
1:1:323:PRO:HA	1:1:336:GLU:O	2.15	0.47
1:2:103:SER:HA	1:2:414:TYR:CZ	2.50	0.47
1:2:276:ALA:HB1	1:2:284:TRP:CD1	2.50	0.47
1:2:499:ASP:HA	1:2:504:ARG:NH1	2.29	0.47
1:4:270:ASN:HD21	1:4:274:ASP:HB2	1.80	0.47
1:4:515:VAL:HG12	1:4:517:VAL:HG23	1.96	0.47
1:6:515:VAL:HG12	1:6:517:VAL:HG23	1.96	0.47
1:7:515:VAL:HG12	1:7:517:VAL:HG23	1.96	0.47
1:A:515:VAL:HG12	1:A:517:VAL:HG23	1.96	0.46
1:B:198:ASN:ND2	1:B:201:GLY:O	2.45	0.46
1:B:285:ARG:NH2	1:J:335:ASP:O	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:403:PRO:HD3	1:b:401:CYS:SG	2.55	0.46
1:D:424:GLU:CD	1:P:535:ASN:HB3	2.40	0.46
1:E:103:SER:HA	1:E:414:TYR:CZ	2.50	0.46
1:E:198:ASN:ND2	1:E:201:GLY:O	2.45	0.46
1:E:499:ASP:HA	1:E:504:ARG:NH1	2.29	0.46
1:G:403:PRO:HD3	1:I:401:CYS:SG	2.55	0.46
1:K:168:LEU:N	1:K:446:HIS:HE1	2.10	0.46
1:K:323:PRO:HA	1:K:336:GLU:O	2.15	0.46
1:M:401:CYS:SG	1:b:403:PRO:HD3	2.55	0.46
1:N:101:GLN:HE21	1:N:415:PHE:HA	1.78	0.46
1:N:333:ASP:OD1	1:N:368:GLN:NE2	2.48	0.46
1:O:535:ASN:HB3	1:m:424:GLU:CD	2.40	0.46
1:P:276:ALA:HB1	1:P:284:TRP:CD1	2.50	0.46
1:S:535:ASN:HB3	1:U:424:GLU:CD	2.40	0.46
1:T:424:GLU:CD	1:l:535:ASN:HB3	2.40	0.46
1:V:103:SER:HA	1:V:414:TYR:CZ	2.50	0.46
1:V:323:PRO:HA	1:V:336:GLU:O	2.15	0.46
1:W:499:ASP:HA	1:W:504:ARG:NH1	2.29	0.46
1:W:515:VAL:HG12	1:W:517:VAL:HG23	1.96	0.46
1:X:230:THR:HG21	1:Y:152:THR:HG21	1.97	0.46
1:X:424:GLU:CD	1:e:535:ASN:HB3	2.40	0.46
1:Y:333:ASP:OD1	1:Y:368:GLN:NE2	2.48	0.46
1:Z:142:ASP:OD1	1:Z:143:SER:N	2.47	0.46
1:Z:424:GLU:CD	1:3:535:ASN:HB3	2.40	0.46
1:Z:535:ASN:HB3	1:4:424:GLU:CD	2.40	0.46
1:a:535:ASN:HB3	1:8:424:GLU:CD	2.40	0.46
1:c:103:SER:HA	1:c:414:TYR:CZ	2.50	0.46
1:c:276:ALA:HB1	1:c:284:TRP:CD1	2.50	0.46
1:d:182:SER:OG	1:d:349:MET:SD	2.72	0.46
1:h:323:PRO:HA	1:h:336:GLU:O	2.15	0.46
1:i:317:ASP:OD1	1:i:317:ASP:N	2.43	0.46
1:i:323:PRO:HA	1:i:336:GLU:O	2.15	0.46
1:i:333:ASP:OD1	1:i:368:GLN:NE2	2.48	0.46
1:j:109:ARG:HG3	1:j:110:ASP:N	2.29	0.46
1:m:499:ASP:HA	1:m:504:ARG:NH1	2.29	0.46
1:o:142:ASP:OD1	1:o:143:SER:N	2.47	0.46
1:o:270:ASN:HD21	1:o:274:ASP:HB2	1.80	0.46
1:o:515:VAL:HG12	1:o:517:VAL:HG23	1.96	0.46
1:q:276:ALA:HB1	1:q:284:TRP:CD1	2.50	0.46
1:w:307:GLU:OE1	1:w:307:GLU:N	2.47	0.46
1:y:101:GLN:HE21	1:y:415:PHE:HA	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:424:GLU:CD	1:2:535:ASN:HB3	2.40	0.46
1:1:333:ASP:OD1	1:1:368:GLN:NE2	2.48	0.46
1:1:535:ASN:HB3	1:2:424:GLU:CD	2.40	0.46
1:2:182:SER:OG	1:2:349:MET:SD	2.72	0.46
1:3:198:ASN:ND2	1:3:201:GLY:O	2.45	0.46
1:3:276:ALA:HB1	1:3:284:TRP:CD1	2.50	0.46
1:7:109:ARG:HG3	1:7:110:ASP:N	2.29	0.46
1:7:333:ASP:OD1	1:7:368:GLN:NE2	2.47	0.46
1:8:142:ASP:OD1	1:8:143:SER:N	2.47	0.46
1:8:276:ALA:HB1	1:8:284:TRP:CD1	2.50	0.46
1:A:109:ARG:HG3	1:A:110:ASP:N	2.29	0.46
1:A:323:PRO:HA	1:A:336:GLU:O	2.15	0.46
1:B:103:SER:HA	1:B:414:TYR:CZ	2.50	0.46
1:B:333:ASP:OD1	1:B:368:GLN:NE2	2.47	0.46
1:C:103:SER:HA	1:C:414:TYR:CZ	2.50	0.46
1:C:182:SER:OG	1:C:349:MET:SD	2.72	0.46
1:E:307:GLU:OE1	1:E:307:GLU:N	2.47	0.46
1:F:101:GLN:HE21	1:F:415:PHE:HA	1.79	0.46
1:J:535:ASN:HB3	1:L:424:GLU:CD	2.40	0.46
1:K:103:SER:HA	1:K:414:TYR:CZ	2.50	0.46
1:L:323:PRO:HA	1:L:336:GLU:O	2.15	0.46
1:M:301:ALA:O	1:b:272:ARG:NH2	2.36	0.46
1:O:152:THR:HG21	1:d:230:THR:HG21	1.97	0.46
1:O:230:THR:HG21	1:P:152:THR:HG21	1.97	0.46
1:R:276:ALA:HB1	1:R:284:TRP:CD1	2.50	0.46
1:S:103:SER:HA	1:S:414:TYR:CZ	2.50	0.46
1:S:403:PRO:HD3	1:U:401:CYS:SG	2.55	0.46
1:T:499:ASP:HA	1:T:504:ARG:NH1	2.29	0.46
1:U:103:SER:HA	1:U:414:TYR:CZ	2.50	0.46
1:X:276:ALA:HB1	1:X:284:TRP:CD1	2.50	0.46
1:d:307:GLU:OE1	1:d:307:GLU:N	2.47	0.46
1:e:276:ALA:HB1	1:e:284:TRP:CD1	2.50	0.46
1:f:401:CYS:SG	1:g:403:PRO:HD3	2.55	0.46
1:f:403:PRO:HD3	1:h:401:CYS:SG	2.55	0.46
1:g:103:SER:HA	1:g:414:TYR:CZ	2.50	0.46
1:g:182:SER:OG	1:g:349:MET:SD	2.72	0.46
1:g:424:GLU:CD	1:h:535:ASN:HB3	2.40	0.46
1:i:270:ASN:HD21	1:i:274:ASP:HB2	1.80	0.46
1:j:276:ALA:HB1	1:j:284:TRP:CD1	2.50	0.46
1:o:230:THR:HG21	1:7:152:THR:HG21	1.97	0.46
1:o:276:ALA:HB1	1:o:284:TRP:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:103:SER:HA	1:p:414:TYR:CZ	2.50	0.46
1:s:323:PRO:HA	1:s:336:GLU:O	2.15	0.46
1:v:323:PRO:HA	1:v:336:GLU:O	2.15	0.46
1:w:103:SER:HA	1:w:414:TYR:CZ	2.50	0.46
1:w:499:ASP:HA	1:w:504:ARG:NH1	2.29	0.46
1:z:323:PRO:HA	1:z:336:GLU:O	2.15	0.46
1:4:323:PRO:HA	1:4:336:GLU:O	2.15	0.46
1:5:403:PRO:HD3	1:6:401:CYS:SG	2.55	0.46
1:7:103:SER:HA	1:7:414:TYR:CZ	2.50	0.46
1:C:424:GLU:CD	1:M:535:ASN:HB3	2.40	0.46
1:D:152:THR:HG21	1:E:230:THR:HG21	1.97	0.46
1:E:182:SER:OG	1:E:349:MET:SD	2.72	0.46
1:G:106:PHE:O	1:G:414:TYR:OH	2.25	0.46
1:G:198:ASN:ND2	1:G:201:GLY:O	2.45	0.46
1:J:403:PRO:HD3	1:L:401:CYS:SG	2.55	0.46
1:K:307:GLU:OE1	1:K:307:GLU:N	2.47	0.46
1:K:535:ASN:HB3	1:a:424:GLU:CD	2.40	0.46
1:L:270:ASN:HD21	1:L:274:ASP:HB2	1.80	0.46
1:N:270:ASN:HD21	1:N:274:ASP:HB2	1.80	0.46
1:N:515:VAL:HG12	1:N:517:VAL:HG23	1.96	0.46
1:O:403:PRO:HD3	1:m:401:CYS:SG	2.55	0.46
1:Q:307:GLU:OE1	1:Q:307:GLU:N	2.47	0.46
1:R:103:SER:HA	1:R:414:TYR:CZ	2.50	0.46
1:R:401:CYS:SG	1:U:403:PRO:HD3	2.55	0.46
1:T:401:CYS:SG	1:l:403:PRO:HD3	2.55	0.46
1:U:198:ASN:ND2	1:U:201:GLY:O	2.45	0.46
1:U:323:PRO:HA	1:U:336:GLU:O	2.15	0.46
1:W:142:ASP:OD1	1:W:143:SER:N	2.47	0.46
1:Y:109:ARG:HG3	1:Y:110:ASP:N	2.29	0.46
1:Z:152:THR:HG21	1:a:230:THR:HG21	1.97	0.46
1:Z:323:PRO:HA	1:Z:336:GLU:O	2.15	0.46
1:a:403:PRO:HD3	1:8:401:CYS:SG	2.55	0.46
1:b:515:VAL:HG12	1:b:517:VAL:HG23	1.96	0.46
1:c:323:PRO:HA	1:c:336:GLU:O	2.15	0.46
1:e:323:PRO:HA	1:e:336:GLU:O	2.15	0.46
1:j:152:THR:HG21	1:l:230:THR:HG21	1.97	0.46
1:k:109:ARG:HG3	1:k:110:ASP:N	2.29	0.46
1:k:317:ASP:OD1	1:k:317:ASP:N	2.43	0.46
1:l:515:VAL:HG12	1:l:517:VAL:HG23	1.96	0.46
1:n:307:GLU:OE1	1:n:307:GLU:N	2.47	0.46
1:o:101:GLN:HE21	1:o:415:PHE:HA	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:103:SER:HA	1:q:414:TYR:CZ	2.50	0.46
1:q:270:ASN:HD21	1:q:274:ASP:HB2	1.80	0.46
1:r:285:ARG:O	1:s:170:TYR:OH	2.29	0.46
1:s:515:VAL:HG12	1:s:517:VAL:HG23	1.96	0.46
1:t:106:PHE:O	1:t:414:TYR:OH	2.25	0.46
1:v:109:ARG:HG3	1:v:110:ASP:N	2.29	0.46
1:w:182:SER:OG	1:w:349:MET:SD	2.72	0.46
1:w:198:ASN:ND2	1:w:201:GLY:O	2.45	0.46
1:x:307:GLU:OE1	1:x:307:GLU:N	2.47	0.46
1:z:401:CYS:SG	1:2:403:PRO:HD3	2.55	0.46
1:1:103:SER:HA	1:1:414:TYR:CZ	2.50	0.46
1:3:230:THR:HG21	1:8:152:THR:HG21	1.97	0.46
1:3:401:CYS:SG	1:4:403:PRO:HD3	2.55	0.46
1:4:168:LEU:N	1:4:446:HIS:HE1	2.10	0.46
1:5:401:CYS:SG	1:7:403:PRO:HD3	2.55	0.46
1:6:499:ASP:HA	1:6:504:ARG:NH1	2.29	0.46
1:8:323:PRO:HA	1:8:336:GLU:O	2.15	0.46
1:D:515:VAL:HG12	1:D:517:VAL:HG23	1.96	0.46
1:K:403:PRO:HD3	1:a:401:CYS:SG	2.55	0.46
1:O:323:PRO:HA	1:O:336:GLU:O	2.15	0.46
1:O:401:CYS:SG	1:n:403:PRO:HD3	2.55	0.46
1:O:515:VAL:HG12	1:O:517:VAL:HG23	1.96	0.46
1:R:182:SER:OG	1:R:349:MET:SD	2.72	0.46
1:T:403:PRO:HD3	1:d:401:CYS:SG	2.55	0.46
1:Z:401:CYS:SG	1:3:403:PRO:HD3	2.55	0.46
1:f:515:VAL:HG12	1:f:517:VAL:HG23	1.96	0.46
1:i:515:VAL:HG12	1:i:517:VAL:HG23	1.96	0.46
1:j:535:ASN:HB3	1:k:424:GLU:CD	2.40	0.46
1:k:152:THR:HG21	1:w:230:THR:HG21	1.97	0.46
1:l:182:SER:OG	1:l:349:MET:SD	2.72	0.46
1:l:323:PRO:HA	1:l:336:GLU:O	2.15	0.46
1:l:333:ASP:OD1	1:l:368:GLN:NE2	2.48	0.46
1:o:535:ASN:HB3	1:p:424:GLU:CD	2.40	0.46
1:q:182:SER:OG	1:q:349:MET:SD	2.72	0.46
1:r:103:SER:HA	1:r:414:TYR:CZ	2.50	0.46
1:r:403:PRO:HD3	1:s:401:CYS:SG	2.55	0.46
1:s:103:SER:HA	1:s:414:TYR:CZ	2.50	0.46
1:s:198:ASN:ND2	1:s:201:GLY:O	2.45	0.46
1:t:323:PRO:HA	1:t:336:GLU:O	2.15	0.46
1:v:307:GLU:OE1	1:v:307:GLU:N	2.47	0.46
1:x:535:ASN:HB3	1:y:424:GLU:CD	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:323:PRO:HA	1:y:336:GLU:O	2.15	0.46
1:z:270:ASN:HD21	1:z:274:ASP:HB2	1.80	0.46
1:z:454:LYS:NZ	1:4:149:ASN:OD1	2.44	0.46
1:1:285:ARG:O	1:2:170:TYR:OH	2.29	0.46
1:4:103:SER:HA	1:4:414:TYR:CZ	2.50	0.46
1:4:307:GLU:N	1:4:307:GLU:OE1	2.47	0.46
1:6:142:ASP:OD1	1:6:143:SER:N	2.47	0.46
1:A:307:GLU:OE1	1:A:307:GLU:N	2.47	0.46
1:C:535:ASN:HB3	1:b:424:GLU:CD	2.40	0.46
1:D:109:ARG:HG3	1:D:110:ASP:N	2.29	0.46
1:D:317:ASP:OD1	1:D:317:ASP:N	2.43	0.46
1:E:270:ASN:HD21	1:E:274:ASP:HB2	1.80	0.46
1:F:323:PRO:HA	1:F:336:GLU:O	2.15	0.46
1:F:424:GLU:CD	1:Q:535:ASN:HB3	2.40	0.46
1:K:401:CYS:SG	1:8:403:PRO:HD3	2.55	0.46
1:L:149:ASN:ND2	1:b:150:ASP:OD1	2.29	0.46
1:L:182:SER:OG	1:L:349:MET:SD	2.72	0.46
1:O:270:ASN:HD21	1:O:274:ASP:HB2	1.80	0.46
1:O:333:ASP:OD1	1:O:368:GLN:NE2	2.48	0.46
1:P:323:PRO:HA	1:P:336:GLU:O	2.15	0.46
1:U:515:VAL:HG12	1:U:517:VAL:HG23	1.96	0.46
1:V:424:GLU:CD	1:X:535:ASN:HB3	2.40	0.46
1:Z:403:PRO:HD3	1:4:401:CYS:SG	2.55	0.46
1:d:403:PRO:HD3	1:l:401:CYS:SG	2.55	0.46
1:f:272:ARG:NH2	1:h:301:ALA:O	2.36	0.46
1:f:424:GLU:CD	1:g:535:ASN:HB3	2.40	0.46
1:w:270:ASN:HD21	1:w:274:ASP:HB2	1.80	0.46
1:w:301:ALA:O	1:y:272:ARG:NH2	2.37	0.46
1:3:424:GLU:CD	1:4:535:ASN:HB3	2.40	0.46
1:4:276:ALA:HB1	1:4:284:TRP:CD1	2.50	0.46
1:5:270:ASN:HD21	1:5:274:ASP:HB2	1.80	0.46
1:7:499:ASP:HA	1:7:504:ARG:NH1	2.29	0.46
1:A:285:ARG:NH2	1:G:335:ASP:O	2.45	0.46
1:A:535:ASN:HB3	1:G:424:GLU:CD	2.40	0.46
1:B:150:ASP:OD1	1:C:149:ASN:ND2	2.29	0.46
1:B:178:GLY:HA3	1:B:183:ASN:HD22	1.81	0.46
1:C:428:GLN:HB3	1:C:431:ILE:HG23	1.98	0.46
1:G:323:PRO:HA	1:G:336:GLU:O	2.15	0.46
1:H:270:ASN:HD21	1:H:274:ASP:HB2	1.80	0.46
1:H:428:GLN:HB3	1:H:431:ILE:HG23	1.98	0.46
1:K:276:ALA:HB1	1:K:284:TRP:CD1	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:301:ALA:O	1:8:272:ARG:NH2	2.37	0.46
1:L:428:GLN:HB3	1:L:431:ILE:HG23	1.98	0.46
1:O:103:SER:HA	1:O:414:TYR:CZ	2.50	0.46
1:R:178:GLY:HA3	1:R:183:ASN:HD22	1.81	0.46
1:R:270:ASN:HD21	1:R:274:ASP:HB2	1.80	0.46
1:R:323:PRO:HA	1:R:336:GLU:O	2.15	0.46
1:R:535:ASN:HB3	1:S:424:GLU:CD	2.40	0.46
1:V:130:ILE:HG23	1:V:469:PHE:CD1	2.51	0.46
1:X:168:LEU:N	1:X:446:HIS:HE1	2.10	0.46
1:Y:323:PRO:HA	1:Y:336:GLU:O	2.15	0.46
1:Z:170:TYR:OH	1:3:285:ARG:O	2.29	0.46
1:d:323:PRO:HA	1:d:336:GLU:O	2.15	0.46
1:e:198:ASN:ND2	1:e:201:GLY:O	2.45	0.46
1:g:307:GLU:OE1	1:g:307:GLU:N	2.47	0.46
1:g:428:GLN:HB3	1:g:431:ILE:HG23	1.98	0.46
1:h:270:ASN:HD21	1:h:274:ASP:HB2	1.80	0.46
1:j:323:PRO:HA	1:j:336:GLU:O	2.15	0.46
1:k:515:VAL:HG12	1:k:517:VAL:HG23	1.96	0.46
1:l:103:SER:HA	1:l:414:TYR:CZ	2.50	0.46
1:l:270:ASN:HD21	1:l:274:ASP:HB2	1.80	0.46
1:m:403:PRO:HD3	1:n:401:CYS:SG	2.55	0.46
1:n:103:SER:HA	1:n:414:TYR:CZ	2.50	0.46
1:p:130:ILE:HG23	1:p:469:PHE:CD1	2.51	0.46
1:q:323:PRO:HA	1:q:336:GLU:O	2.15	0.46
1:q:401:CYS:SG	1:s:403:PRO:HD3	2.55	0.46
1:q:499:ASP:HA	1:q:504:ARG:NH1	2.29	0.46
1:q:535:ASN:HB3	1:r:424:GLU:CD	2.40	0.46
1:r:323:PRO:HA	1:r:336:GLU:O	2.15	0.46
1:t:401:CYS:SG	1:v:403:PRO:HD3	2.55	0.46
1:t:424:GLU:CD	1:v:535:ASN:HB3	2.40	0.46
1:w:401:CYS:SG	1:y:403:PRO:HD3	2.55	0.46
1:y:103:SER:HA	1:y:414:TYR:CZ	2.50	0.46
1:y:130:ILE:HG23	1:y:469:PHE:CD1	2.51	0.46
1:z:182:SER:OG	1:z:349:MET:SD	2.72	0.46
1:z:428:GLN:HB3	1:z:431:ILE:HG23	1.98	0.46
1:z:535:ASN:HB3	1:1:424:GLU:CD	2.40	0.46
1:5:152:THR:HG21	1:8:230:THR:HG21	1.97	0.46
1:5:428:GLN:HB3	1:5:431:ILE:HG23	1.98	0.46
1:A:152:THR:HG21	1:B:230:THR:HG21	1.98	0.46
1:A:403:PRO:HD3	1:G:401:CYS:SG	2.55	0.46
1:C:307:GLU:OE1	1:C:307:GLU:N	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:499:ASP:HA	1:D:504:ARG:NH1	2.29	0.46
1:E:301:ALA:O	1:F:272:ARG:NH2	2.37	0.46
1:F:130:ILE:HG23	1:F:469:PHE:CD1	2.51	0.46
1:H:152:THR:HG21	1:Z:230:THR:HG21	1.97	0.46
1:K:428:GLN:HB3	1:K:431:ILE:HG23	1.98	0.46
1:N:103:SER:HA	1:N:414:TYR:CZ	2.50	0.46
1:O:182:SER:OG	1:O:349:MET:SD	2.72	0.46
1:Y:451:VAL:HG11	1:Y:465:GLU:HG3	1.98	0.46
1:Y:499:ASP:HA	1:Y:504:ARG:NH1	2.29	0.46
1:Z:428:GLN:HB3	1:Z:431:ILE:HG23	1.98	0.46
1:d:103:SER:HA	1:d:414:TYR:CZ	2.50	0.46
1:h:276:ALA:HB1	1:h:284:TRP:CD1	2.50	0.46
1:n:198:ASN:ND2	1:n:201:GLY:O	2.45	0.46
1:n:323:PRO:HA	1:n:336:GLU:O	2.15	0.46
1:o:103:SER:HA	1:o:414:TYR:CZ	2.50	0.46
1:q:178:GLY:HA3	1:q:183:ASN:HD22	1.81	0.46
1:2:130:ILE:HG23	1:2:469:PHE:CD1	2.51	0.46
1:2:317:ASP:OD1	1:2:317:ASP:N	2.43	0.46
1:3:270:ASN:HD21	1:3:274:ASP:HB2	1.80	0.46
1:3:428:GLN:HB3	1:3:431:ILE:HG23	1.98	0.46
1:5:323:PRO:HA	1:5:336:GLU:O	2.15	0.46
1:5:451:VAL:HG11	1:5:465:GLU:HG3	1.98	0.46
1:7:130:ILE:HG23	1:7:469:PHE:CD1	2.51	0.46
1:8:428:GLN:HB3	1:8:431:ILE:HG23	1.98	0.46
1:A:35:THR:HG1	1:A:132:ASN:H	1.58	0.46
1:B:424:GLU:CD	1:L:535:ASN:HB3	2.40	0.46
1:B:428:GLN:HB3	1:B:431:ILE:HG23	1.98	0.46
1:B:451:VAL:HG11	1:B:465:GLU:HG3	1.98	0.46
1:C:152:THR:HG21	1:D:230:THR:HG21	1.97	0.46
1:F:103:SER:HA	1:F:414:TYR:CZ	2.50	0.46
1:F:401:CYS:SG	1:Q:403:PRO:HD3	2.55	0.46
1:H:323:PRO:HA	1:H:336:GLU:O	2.15	0.46
1:H:451:VAL:HG11	1:H:465:GLU:HG3	1.98	0.46
1:I:178:GLY:HA3	1:I:183:ASN:HD22	1.81	0.46
1:J:130:ILE:HG23	1:J:469:PHE:CD1	2.51	0.46
1:K:451:VAL:HG11	1:K:465:GLU:HG3	1.98	0.46
1:L:130:ILE:HG23	1:L:469:PHE:CD1	2.51	0.46
1:M:270:ASN:HD21	1:M:274:ASP:HB2	1.80	0.46
1:N:130:ILE:HG23	1:N:469:PHE:CD1	2.51	0.46
1:O:424:GLU:CD	1:n:535:ASN:HB3	2.40	0.46
1:Q:130:ILE:HG23	1:Q:469:PHE:CD1	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:323:PRO:HA	1:S:336:GLU:O	2.15	0.46
1:T:130:ILE:HG23	1:T:469:PHE:CD1	2.51	0.46
1:T:348:LYS:HG2	1:T:512:GLN:HE21	1.81	0.46
1:V:348:LYS:HG2	1:V:512:GLN:HE21	1.81	0.46
1:W:130:ILE:HG23	1:W:469:PHE:CD1	2.51	0.46
1:W:270:ASN:HD21	1:W:274:ASP:HB2	1.80	0.46
1:W:285:ARG:NH2	1:Y:335:ASP:O	2.44	0.46
1:X:103:SER:HA	1:X:414:TYR:CZ	2.50	0.46
1:Y:130:ILE:HG23	1:Y:469:PHE:CD1	2.51	0.46
1:Z:313:ALA:O	1:3:380:ARG:N	2.39	0.46
1:a:270:ASN:HD21	1:a:274:ASP:HB2	1.80	0.46
1:a:323:PRO:HA	1:a:336:GLU:O	2.15	0.46
1:a:428:GLN:HB3	1:a:431:ILE:HG23	1.98	0.46
1:a:451:VAL:HG11	1:a:465:GLU:HG3	1.98	0.46
1:b:428:GLN:HB3	1:b:431:ILE:HG23	1.98	0.46
1:d:198:ASN:ND2	1:d:201:GLY:O	2.45	0.46
1:f:428:GLN:HB3	1:f:431:ILE:HG23	1.98	0.46
1:g:149:ASN:ND2	1:1:150:ASP:OD1	2.29	0.46
1:i:130:ILE:HG23	1:i:469:PHE:CD1	2.51	0.46
1:k:323:PRO:HA	1:k:336:GLU:O	2.15	0.46
1:k:499:ASP:HA	1:k:504:ARG:NH1	2.29	0.46
1:l:130:ILE:HG23	1:l:469:PHE:CD1	2.51	0.46
1:p:230:THR:HG21	1:q:152:THR:HG21	1.97	0.46
1:t:198:ASN:ND2	1:t:201:GLY:O	2.45	0.46
1:t:335:ASP:O	1:v:285:ARG:NH2	2.45	0.46
1:v:270:ASN:HD21	1:v:274:ASP:HB2	1.80	0.46
1:x:130:ILE:HG23	1:x:469:PHE:CD1	2.51	0.46
1:1:130:ILE:HG23	1:1:469:PHE:CD1	2.51	0.46
1:1:178:GLY:HA3	1:1:183:ASN:HD22	1.81	0.46
1:1:451:VAL:HG11	1:1:465:GLU:HG3	1.98	0.46
1:3:323:PRO:HA	1:3:336:GLU:O	2.15	0.46
1:4:428:GLN:HB3	1:4:431:ILE:HG23	1.98	0.46
1:6:130:ILE:HG23	1:6:469:PHE:CD1	2.51	0.46
1:6:270:ASN:HD21	1:6:274:ASP:HB2	1.80	0.46
1:7:323:PRO:HA	1:7:336:GLU:O	2.15	0.46
1:7:451:VAL:HG11	1:7:465:GLU:HG3	1.98	0.46
1:8:451:VAL:HG11	1:8:465:GLU:HG3	1.98	0.46
1:B:130:ILE:HG23	1:B:469:PHE:CD1	2.51	0.46
1:D:323:PRO:HA	1:D:336:GLU:O	2.15	0.46
1:E:130:ILE:HG23	1:E:469:PHE:CD1	2.51	0.46
1:E:170:TYR:OH	1:F:285:ARG:O	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:401:CYS:SG	1:F:403:PRO:HD3	2.55	0.46
1:F:198:ASN:ND2	1:F:201:GLY:O	2.45	0.46
1:G:272:ARG:NH2	1:I:301:ALA:O	2.36	0.46
1:G:499:ASP:HA	1:G:504:ARG:NH1	2.29	0.46
1:I:130:ILE:HG23	1:I:469:PHE:CD1	2.51	0.46
1:J:317:ASP:OD1	1:J:317:ASP:N	2.43	0.46
1:M:103:SER:HA	1:M:414:TYR:CZ	2.50	0.46
1:M:276:ALA:HB1	1:M:284:TRP:CD1	2.50	0.46
1:O:130:ILE:HG23	1:O:469:PHE:CD1	2.51	0.46
1:R:451:VAL:HG11	1:R:465:GLU:HG3	1.98	0.46
1:R:499:ASP:HA	1:R:504:ARG:NH1	2.29	0.46
1:S:428:GLN:HB3	1:S:431:ILE:HG23	1.98	0.46
1:T:168:LEU:N	1:T:446:HIS:HE1	2.10	0.46
1:V:270:ASN:HD21	1:V:274:ASP:HB2	1.80	0.46
1:Z:272:ARG:NH2	1:4:301:ALA:O	2.37	0.46
1:Z:451:VAL:HG11	1:Z:465:GLU:HG3	1.98	0.46
1:a:130:ILE:HG23	1:a:469:PHE:CD1	2.51	0.46
1:c:169:LEU:HD22	1:c:421:GLN:HB3	1.98	0.46
1:c:198:ASN:ND2	1:c:201:GLY:O	2.45	0.46
1:c:403:PRO:HD3	1:o:401:CYS:SG	2.55	0.46
1:g:152:THR:HG21	1:k:230:THR:HG21	1.97	0.46
1:h:451:VAL:HG11	1:h:465:GLU:HG3	1.98	0.46
1:i:35:THR:HG1	1:i:132:ASN:H	1.59	0.46
1:i:103:SER:HA	1:i:414:TYR:CZ	2.50	0.46
1:m:130:ILE:HG23	1:m:469:PHE:CD1	2.51	0.46
1:m:348:LYS:HG2	1:m:512:GLN:HE21	1.81	0.46
1:o:168:LEU:N	1:o:446:HIS:HE1	2.10	0.46
1:p:348:LYS:HG2	1:p:512:GLN:HE21	1.81	0.46
1:p:428:GLN:HB3	1:p:431:ILE:HG23	1.98	0.46
1:r:428:GLN:HB3	1:r:431:ILE:HG23	1.98	0.46
1:t:130:ILE:HG23	1:t:469:PHE:CD1	2.51	0.46
1:t:272:ARG:NH2	1:u:301:ALA:O	2.36	0.46
1:u:130:ILE:HG23	1:u:469:PHE:CD1	2.51	0.46
1:u:178:GLY:HA3	1:u:183:ASN:HD22	1.81	0.46
1:w:170:TYR:OH	1:y:285:ARG:O	2.29	0.46
1:x:403:PRO:HD3	1:y:401:CYS:SG	2.55	0.46
1:z:130:ILE:HG23	1:z:469:PHE:CD1	2.51	0.46
1:1:101:GLN:HE21	1:1:415:PHE:HA	1.79	0.46
1:1:428:GLN:HB3	1:1:431:ILE:HG23	1.98	0.46
1:3:130:ILE:HG23	1:3:469:PHE:CD1	2.51	0.46
1:3:451:VAL:HG11	1:3:465:GLU:HG3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:451:VAL:HG11	1:4:465:GLU:HG3	1.98	0.46
1:A:270:ASN:HD21	1:A:274:ASP:HB2	1.80	0.46
1:B:101:GLN:HE21	1:B:415:PHE:HA	1.79	0.46
1:C:169:LEU:HD22	1:C:421:GLN:HB3	1.98	0.46
1:E:323:PRO:HA	1:E:336:GLU:O	2.15	0.46
1:F:451:VAL:HG11	1:F:465:GLU:HG3	1.98	0.46
1:G:130:ILE:HG23	1:G:469:PHE:CD1	2.51	0.46
1:J:428:GLN:HB3	1:J:431:ILE:HG23	1.98	0.46
1:L:169:LEU:HD22	1:L:421:GLN:HB3	1.98	0.46
1:M:451:VAL:HG11	1:M:465:GLU:HG3	1.98	0.46
1:N:35:THR:HG1	1:N:132:ASN:H	1.59	0.46
1:N:178:GLY:HA3	1:N:183:ASN:HD22	1.81	0.46
1:P:451:VAL:HG11	1:P:465:GLU:HG3	1.98	0.46
1:R:152:THR:HG21	1:V:230:THR:HG21	1.97	0.46
1:S:182:SER:OG	1:S:349:MET:SD	2.72	0.46
1:T:169:LEU:HD22	1:T:421:GLN:HB3	1.98	0.46
1:T:270:ASN:HD21	1:T:274:ASP:HB2	1.80	0.46
1:V:428:GLN:HB3	1:V:431:ILE:HG23	1.98	0.46
1:X:401:CYS:SG	1:e:403:PRO:HD3	2.55	0.46
1:X:428:GLN:HB3	1:X:431:ILE:HG23	1.98	0.46
1:Y:198:ASN:ND2	1:Y:201:GLY:O	2.45	0.46
1:Z:169:LEU:HD22	1:Z:421:GLN:HB3	1.98	0.46
1:a:348:LYS:HG2	1:a:512:GLN:HE21	1.81	0.46
1:c:182:SER:OG	1:c:349:MET:SD	2.72	0.46
1:d:535:ASN:HB3	1:l:424:GLU:CD	2.40	0.46
1:e:169:LEU:HD22	1:e:421:GLN:HB3	1.98	0.46
1:e:182:SER:OG	1:e:349:MET:SD	2.72	0.46
1:g:169:LEU:HD22	1:g:421:GLN:HB3	1.98	0.46
1:h:103:SER:HA	1:h:414:TYR:CZ	2.50	0.46
1:i:178:GLY:HA3	1:i:183:ASN:HD22	1.81	0.46
1:j:451:VAL:HG11	1:j:465:GLU:HG3	1.98	0.46
1:k:428:GLN:HB3	1:k:431:ILE:HG23	1.98	0.46
1:m:169:LEU:HD22	1:m:421:GLN:HB3	1.98	0.46
1:o:428:GLN:HB3	1:o:431:ILE:HG23	1.98	0.46
1:q:451:VAL:HG11	1:q:465:GLU:HG3	1.98	0.46
1:t:230:THR:HG21	1:6:152:THR:HG21	1.97	0.46
1:v:35:THR:HG1	1:v:132:ASN:H	1.58	0.46
1:w:130:ILE:HG23	1:w:469:PHE:CD1	2.51	0.46
1:x:451:VAL:HG11	1:x:465:GLU:HG3	1.98	0.46
1:y:451:VAL:HG11	1:y:465:GLU:HG3	1.98	0.46
1:z:103:SER:HA	1:z:414:TYR:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:178:GLY:HA3	1:z:183:ASN:HD22	1.81	0.46
1:2:169:LEU:HD22	1:2:421:GLN:HB3	1.98	0.46
1:3:182:SER:OG	1:3:349:MET:SD	2.72	0.46
1:6:428:GLN:HB3	1:6:431:ILE:HG23	1.98	0.46
1:8:130:ILE:HG23	1:8:469:PHE:CD1	2.51	0.46
1:8:169:LEU:HD22	1:8:421:GLN:HB3	1.98	0.46
1:A:178:GLY:HA3	1:A:183:ASN:HD22	1.81	0.45
1:B:285:ARG:O	1:J:170:TYR:OH	2.30	0.45
1:D:103:SER:HA	1:D:414:TYR:CZ	2.50	0.45
1:D:428:GLN:HB3	1:D:431:ILE:HG23	1.98	0.45
1:F:178:GLY:HA3	1:F:183:ASN:HD22	1.81	0.45
1:G:230:THR:HG21	1:W:152:THR:HG21	1.97	0.45
1:J:230:THR:HG21	1:a:152:THR:HG21	1.97	0.45
1:J:323:PRO:HA	1:J:336:GLU:O	2.15	0.45
1:M:428:GLN:HB3	1:M:431:ILE:HG23	1.98	0.45
1:N:169:LEU:HD22	1:N:421:GLN:HB3	1.99	0.45
1:N:285:ARG:NH2	1:P:335:ASP:O	2.44	0.45
1:O:169:LEU:HD22	1:O:421:GLN:HB3	1.98	0.45
1:Q:348:LYS:HG2	1:Q:512:GLN:HE21	1.81	0.45
1:Q:451:VAL:HG11	1:Q:465:GLU:HG3	1.98	0.45
1:U:169:LEU:HD22	1:U:421:GLN:HB3	1.98	0.45
1:W:169:LEU:HD22	1:W:421:GLN:HB3	1.99	0.45
1:W:178:GLY:HA3	1:W:183:ASN:HD22	1.81	0.45
1:W:428:GLN:HB3	1:W:431:ILE:HG23	1.98	0.45
1:X:301:ALA:O	1:e:272:ARG:NH2	2.36	0.45
1:X:348:LYS:HG2	1:X:512:GLN:HE21	1.81	0.45
1:Z:130:ILE:HG23	1:Z:469:PHE:CD1	2.51	0.45
1:b:130:ILE:HG23	1:b:469:PHE:CD1	2.51	0.45
1:f:130:ILE:HG23	1:f:469:PHE:CD1	2.51	0.45
1:h:428:GLN:HB3	1:h:431:ILE:HG23	1.98	0.45
1:j:348:LYS:HG2	1:j:512:GLN:HE21	1.81	0.45
1:l:169:LEU:HD22	1:l:421:GLN:HB3	1.98	0.45
1:m:168:LEU:N	1:m:446:HIS:HE1	2.10	0.45
1:o:348:LYS:HG2	1:o:512:GLN:HE21	1.81	0.45
1:q:348:LYS:HG2	1:q:512:GLN:HE21	1.81	0.45
1:r:182:SER:OG	1:r:349:MET:SD	2.72	0.45
1:s:169:LEU:HD22	1:s:421:GLN:HB3	1.98	0.45
1:t:499:ASP:HA	1:t:504:ARG:NH1	2.29	0.45
1:t:501:LYS:HE2	1:6:209:GLY:O	2.16	0.45
1:v:178:GLY:HA3	1:v:183:ASN:HD22	1.81	0.45
1:x:348:LYS:HG2	1:x:512:GLN:HE21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:198:ASN:ND2	1:y:201:GLY:O	2.45	0.45
1:z:169:LEU:HD22	1:z:421:GLN:HB3	1.99	0.45
1:1:285:ARG:NH2	1:2:335:ASP:O	2.45	0.45
1:2:428:GLN:HB3	1:2:431:ILE:HG23	1.98	0.45
1:3:348:LYS:HG2	1:3:512:GLN:HE21	1.81	0.45
1:6:169:LEU:HD22	1:6:421:GLN:HB3	1.99	0.45
1:6:285:ARG:NH2	1:7:335:ASP:O	2.44	0.45
1:B:209:GLY:O	1:C:501:LYS:HE2	2.16	0.45
1:C:168:LEU:N	1:C:446:HIS:HE1	2.10	0.45
1:D:285:ARG:NH2	1:N:335:ASP:O	2.44	0.45
1:G:501:LYS:HE2	1:W:209:GLY:O	2.17	0.45
1:J:169:LEU:HD22	1:J:421:GLN:HB3	1.98	0.45
1:L:103:SER:HA	1:L:414:TYR:CZ	2.50	0.45
1:L:178:GLY:HA3	1:L:183:ASN:HD22	1.81	0.45
1:L:198:ASN:ND2	1:L:201:GLY:O	2.45	0.45
1:N:348:LYS:HG2	1:N:512:GLN:HE21	1.81	0.45
1:P:348:LYS:HG2	1:P:512:GLN:HE21	1.81	0.45
1:Y:428:GLN:HB3	1:Y:431:ILE:HG23	1.98	0.45
1:Z:285:ARG:NH2	1:4:335:ASP:O	2.45	0.45
1:a:380:ARG:N	1:8:313:ALA:O	2.39	0.45
1:d:430:LYS:NZ	1:l:428:GLN:O	2.39	0.45
1:g:130:ILE:HG23	1:g:469:PHE:CD1	2.51	0.45
1:g:168:LEU:N	1:g:446:HIS:HE1	2.10	0.45
1:g:323:PRO:HA	1:g:336:GLU:O	2.15	0.45
1:h:178:GLY:HA3	1:h:183:ASN:HD22	1.81	0.45
1:i:169:LEU:HD22	1:i:421:GLN:HB3	1.99	0.45
1:i:285:ARG:NH2	1:j:335:ASP:O	2.44	0.45
1:i:348:LYS:HG2	1:i:512:GLN:HE21	1.81	0.45
1:l:348:LYS:HG2	1:l:512:GLN:HE21	1.81	0.45
1:m:270:ASN:HD21	1:m:274:ASP:HB2	1.80	0.45
1:p:152:THR:HG21	1:6:230:THR:HG21	1.97	0.45
1:p:270:ASN:HD21	1:p:274:ASP:HB2	1.80	0.45
1:s:348:LYS:HG2	1:s:512:GLN:HE21	1.81	0.45
1:w:178:GLY:HA3	1:w:183:ASN:HD22	1.81	0.45
1:w:323:PRO:HA	1:w:336:GLU:O	2.15	0.45
1:x:270:ASN:HD21	1:x:274:ASP:HB2	1.80	0.45
1:y:178:GLY:HA3	1:y:183:ASN:HD22	1.81	0.45
1:z:152:THR:HG21	1:4:230:THR:HG21	1.97	0.45
1:2:323:PRO:HA	1:2:336:GLU:O	2.15	0.45
1:6:178:GLY:HA3	1:6:183:ASN:HD22	1.81	0.45
1:6:348:LYS:HG2	1:6:512:GLN:HE21	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:198:ASN:ND2	1:7:201:GLY:O	2.45	0.45
1:A:335:ASP:O	1:I:285:ARG:NH2	2.45	0.45
1:A:348:LYS:HG2	1:A:512:GLN:HE21	1.81	0.45
1:C:130:ILE:HG23	1:C:469:PHE:CD1	2.51	0.45
1:C:323:PRO:HA	1:C:336:GLU:O	2.15	0.45
1:E:178:GLY:HA3	1:E:183:ASN:HD22	1.81	0.45
1:E:348:LYS:HG2	1:E:512:GLN:HE21	1.81	0.45
1:H:209:GLY:O	1:Z:501:LYS:HE2	2.17	0.45
1:H:313:ALA:O	1:Y:380:ARG:N	2.39	0.45
1:M:178:GLY:HA3	1:M:183:ASN:HD22	1.81	0.45
1:O:348:LYS:HG2	1:O:512:GLN:HE21	1.81	0.45
1:R:348:LYS:HG2	1:R:512:GLN:HE21	1.81	0.45
1:U:348:LYS:HG2	1:U:512:GLN:HE21	1.81	0.45
1:W:323:PRO:HA	1:W:336:GLU:O	2.15	0.45
1:W:348:LYS:HG2	1:W:512:GLN:HE21	1.81	0.45
1:X:451:VAL:HG11	1:X:465:GLU:HG3	1.98	0.45
1:a:178:GLY:HA3	1:a:183:ASN:HD22	1.81	0.45
1:a:182:SER:OG	1:a:349:MET:SD	2.72	0.45
1:b:169:LEU:HD22	1:b:421:GLN:HB3	1.98	0.45
1:b:323:PRO:HA	1:b:336:GLU:O	2.15	0.45
1:c:130:ILE:HG23	1:c:469:PHE:CD1	2.51	0.45
1:e:130:ILE:HG23	1:e:469:PHE:CD1	2.51	0.45
1:h:130:ILE:HG23	1:h:469:PHE:CD1	2.51	0.45
1:k:103:SER:HA	1:k:414:TYR:CZ	2.50	0.45
1:q:130:ILE:HG23	1:q:469:PHE:CD1	2.51	0.45
1:t:428:GLN:HB3	1:t:431:ILE:HG23	1.98	0.45
1:w:348:LYS:HG2	1:w:512:GLN:HE21	1.81	0.45
1:y:182:SER:OG	1:y:349:MET:SD	2.72	0.45
1:2:230:THR:HG21	1:3:152:THR:HG21	1.97	0.45
1:3:178:GLY:HA3	1:3:183:ASN:HD22	1.81	0.45
1:4:122:ARG:HB3	1:4:246:TRP:HA	1.99	0.45
1:4:130:ILE:HG23	1:4:469:PHE:CD1	2.51	0.45
1:4:348:LYS:HG2	1:4:512:GLN:HE21	1.81	0.45
1:5:384:MET:O	1:6:310:ALA:HA	2.17	0.45
1:7:428:GLN:HB3	1:7:431:ILE:HG23	1.98	0.45
1:8:182:SER:OG	1:8:349:MET:SD	2.72	0.45
1:B:169:LEU:HD22	1:B:421:GLN:HB3	1.98	0.45
1:C:348:LYS:HG2	1:C:512:GLN:HE21	1.81	0.45
1:E:122:ARG:HB3	1:E:246:TRP:HA	1.99	0.45
1:G:428:GLN:HB3	1:G:431:ILE:HG23	1.98	0.45
1:I:501:LYS:HE2	1:J:209:GLY:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:122:ARG:HB3	1:K:246:TRP:HA	1.99	0.45
1:K:130:ILE:HG23	1:K:469:PHE:CD1	2.51	0.45
1:K:230:THR:HG21	1:L:152:THR:HG21	1.97	0.45
1:K:335:ASP:O	1:8:285:ARG:NH2	2.45	0.45
1:L:122:ARG:HB3	1:L:246:TRP:HA	1.99	0.45
1:M:130:ILE:HG23	1:M:469:PHE:CD1	2.51	0.45
1:O:178:GLY:HA3	1:O:183:ASN:HD22	1.81	0.45
1:Q:270:ASN:HD21	1:Q:274:ASP:HB2	1.80	0.45
1:R:130:ILE:HG23	1:R:469:PHE:CD1	2.51	0.45
1:V:169:LEU:HD22	1:V:421:GLN:HB3	1.98	0.45
1:W:122:ARG:HB3	1:W:246:TRP:HA	1.99	0.45
1:X:178:GLY:HA3	1:X:183:ASN:HD22	1.81	0.45
1:Y:178:GLY:HA3	1:Y:183:ASN:HD22	1.81	0.45
1:Y:348:LYS:HG2	1:Y:512:GLN:HE21	1.81	0.45
1:Z:209:GLY:O	1:a:501:LYS:HE2	2.17	0.45
1:d:122:ARG:HB3	1:d:246:TRP:HA	1.99	0.45
1:f:169:LEU:HD22	1:f:421:GLN:HB3	1.98	0.45
1:f:323:PRO:HA	1:f:336:GLU:O	2.15	0.45
1:g:348:LYS:HG2	1:g:512:GLN:HE21	1.81	0.45
1:n:122:ARG:HB3	1:n:246:TRP:HA	1.99	0.45
1:n:168:LEU:N	1:n:446:HIS:HE1	2.10	0.45
1:o:451:VAL:HG11	1:o:465:GLU:HG3	1.98	0.45
1:s:499:ASP:HA	1:s:504:ARG:NH1	2.29	0.45
1:t:451:VAL:HG11	1:t:465:GLU:HG3	1.98	0.45
1:u:169:LEU:HD22	1:u:421:GLN:HB3	1.98	0.45
1:u:428:GLN:HB3	1:u:431:ILE:HG23	1.98	0.45
1:u:451:VAL:HG11	1:u:465:GLU:HG3	1.98	0.45
1:u:501:LYS:HE2	1:2:209:GLY:O	2.17	0.45
1:v:130:ILE:HG23	1:v:469:PHE:CD1	2.51	0.45
1:v:348:LYS:HG2	1:v:512:GLN:HE21	1.81	0.45
1:w:122:ARG:HB3	1:w:246:TRP:HA	1.99	0.45
1:z:122:ARG:HB3	1:z:246:TRP:HA	1.99	0.45
1:1:270:ASN:HD21	1:1:274:ASP:HB2	1.80	0.45
1:2:198:ASN:ND2	1:2:201:GLY:O	2.45	0.45
1:2:501:LYS:HE2	1:3:209:GLY:O	2.17	0.45
1:3:501:LYS:HE2	1:8:209:GLY:O	2.17	0.45
1:6:122:ARG:HB3	1:6:246:TRP:HA	1.99	0.45
1:6:323:PRO:HA	1:6:336:GLU:O	2.15	0.45
1:7:178:GLY:HA3	1:7:183:ASN:HD22	1.81	0.45
1:7:348:LYS:HG2	1:7:512:GLN:HE21	1.81	0.45
1:B:270:ASN:HD21	1:B:274:ASP:HB2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:335:ASP:O	1:L:285:ARG:NH2	2.44	0.45
1:B:348:LYS:HG2	1:B:512:GLN:HE21	1.81	0.45
1:F:122:ARG:HB3	1:F:246:TRP:HA	1.99	0.45
1:F:169:LEU:HD22	1:F:421:GLN:HB3	1.98	0.45
1:F:501:LYS:HE2	1:G:209:GLY:O	2.17	0.45
1:H:335:ASP:O	1:Y:285:ARG:NH2	2.44	0.45
1:I:169:LEU:HD22	1:I:421:GLN:HB3	1.98	0.45
1:J:122:ARG:HB3	1:J:246:TRP:HA	1.99	0.45
1:J:198:ASN:ND2	1:J:201:GLY:O	2.45	0.45
1:J:501:LYS:HE2	1:a:209:GLY:O	2.17	0.45
1:K:348:LYS:HG2	1:K:512:GLN:HE21	1.81	0.45
1:N:451:VAL:HG11	1:N:465:GLU:HG3	1.98	0.45
1:O:428:GLN:O	1:n:430:LYS:NZ	2.39	0.45
1:P:130:ILE:HG23	1:P:469:PHE:CD1	2.51	0.45
1:Q:178:GLY:HA3	1:Q:183:ASN:HD22	1.81	0.45
1:S:130:ILE:HG23	1:S:469:PHE:CD1	2.51	0.45
1:S:451:VAL:HG11	1:S:465:GLU:HG3	1.98	0.45
1:T:122:ARG:HB3	1:T:246:TRP:HA	1.99	0.45
1:T:501:LYS:HE2	1:U:209:GLY:O	2.17	0.45
1:U:428:GLN:HB3	1:U:431:ILE:HG23	1.98	0.45
1:V:152:THR:HG21	1:W:230:THR:HG21	1.97	0.45
1:X:499:ASP:HA	1:X:504:ARG:NH1	2.29	0.45
1:Y:182:SER:OG	1:Y:349:MET:SD	2.72	0.45
1:Y:270:ASN:HD21	1:Y:274:ASP:HB2	1.80	0.45
1:c:272:ARG:NH2	1:o:301:ALA:O	2.36	0.45
1:h:169:LEU:HD22	1:h:421:GLN:HB3	1.99	0.45
1:i:335:ASP:O	1:k:285:ARG:NH2	2.44	0.45
1:i:451:VAL:HG11	1:i:465:GLU:HG3	1.98	0.45
1:j:178:GLY:HA3	1:j:183:ASN:HD22	1.81	0.45
1:k:451:VAL:HG11	1:k:465:GLU:HG3	1.98	0.45
1:l:178:GLY:HA3	1:l:183:ASN:HD22	1.81	0.45
1:m:122:ARG:HB3	1:m:246:TRP:HA	1.99	0.45
1:m:501:LYS:HE2	1:s:209:GLY:O	2.17	0.45
1:n:152:THR:HG21	1:r:230:THR:HG21	1.97	0.45
1:p:169:LEU:HD22	1:p:421:GLN:HB3	1.98	0.45
1:p:178:GLY:HA3	1:p:183:ASN:HD22	1.81	0.45
1:r:451:VAL:HG11	1:r:465:GLU:HG3	1.98	0.45
1:s:130:ILE:HG23	1:s:469:PHE:CD1	2.51	0.45
1:s:428:GLN:HB3	1:s:431:ILE:HG23	1.98	0.45
1:u:285:ARG:NH2	1:v:335:ASP:O	2.45	0.45
1:x:178:GLY:HA3	1:x:183:ASN:HD22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:122:ARG:HB3	1:y:246:TRP:HA	1.99	0.45
1:y:169:LEU:HD22	1:y:421:GLN:HB3	1.98	0.45
1:z:198:ASN:ND2	1:z:201:GLY:O	2.45	0.45
1:1:169:LEU:HD22	1:1:421:GLN:HB3	1.98	0.45
1:4:182:SER:OG	1:4:349:MET:SD	2.72	0.45
1:5:130:ILE:HG23	1:5:469:PHE:CD1	2.51	0.45
1:7:270:ASN:HD21	1:7:274:ASP:HB2	1.80	0.45
1:A:101:GLN:OE1	1:A:176:LEU:HD13	2.17	0.45
1:A:130:ILE:HG23	1:A:469:PHE:CD1	2.51	0.45
1:C:451:VAL:HG11	1:C:465:GLU:HG3	1.98	0.45
1:D:172:ASN:OD1	1:D:417:PRO:HD3	2.17	0.45
1:D:178:GLY:HA3	1:D:183:ASN:HD22	1.81	0.45
1:D:451:VAL:HG11	1:D:465:GLU:HG3	1.98	0.45
1:F:101:GLN:OE1	1:F:176:LEU:HD13	2.17	0.45
1:G:451:VAL:HG11	1:G:465:GLU:HG3	1.98	0.45
1:I:198:ASN:ND2	1:I:201:GLY:O	2.45	0.45
1:I:451:VAL:HG11	1:I:465:GLU:HG3	1.98	0.45
1:M:169:LEU:HD22	1:M:421:GLN:HB3	1.98	0.45
1:N:172:ASN:OD1	1:N:417:PRO:HD3	2.17	0.45
1:P:178:GLY:HA3	1:P:183:ASN:HD22	1.81	0.45
1:Q:169:LEU:HD22	1:Q:421:GLN:HB3	1.98	0.45
1:Q:323:PRO:HA	1:Q:336:GLU:O	2.15	0.45
1:S:178:GLY:HA3	1:S:183:ASN:HD22	1.81	0.45
1:U:130:ILE:HG23	1:U:469:PHE:CD1	2.51	0.45
1:V:178:GLY:HA3	1:V:183:ASN:HD22	1.81	0.45
1:X:130:ILE:HG23	1:X:469:PHE:CD1	2.51	0.45
1:X:169:LEU:HD22	1:X:421:GLN:HB3	1.98	0.45
1:d:348:LYS:HG2	1:d:512:GLN:HE21	1.81	0.45
1:i:172:ASN:OD1	1:i:417:PRO:HD3	2.17	0.45
1:j:130:ILE:HG23	1:j:469:PHE:CD1	2.51	0.45
1:k:168:LEU:N	1:k:446:HIS:HE1	2.10	0.45
1:k:169:LEU:HD22	1:k:421:GLN:HB3	1.99	0.45
1:k:172:ASN:OD1	1:k:417:PRO:HD3	2.17	0.45
1:o:169:LEU:HD22	1:o:421:GLN:HB3	1.98	0.45
1:o:178:GLY:HA3	1:o:183:ASN:HD22	1.81	0.45
1:o:499:ASP:HA	1:o:504:ARG:NH1	2.29	0.45
1:t:209:GLY:O	1:y:501:LYS:HE2	2.17	0.45
1:w:428:GLN:HB3	1:w:431:ILE:HG23	1.98	0.45
1:x:169:LEU:HD22	1:x:421:GLN:HB3	1.98	0.45
1:2:101:GLN:OE1	1:2:176:LEU:HD13	2.17	0.45
1:2:122:ARG:HB3	1:2:246:TRP:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:178:GLY:HA3	1:4:183:ASN:HD22	1.81	0.45
1:5:209:GLY:O	1:8:501:LYS:HE2	2.17	0.45
1:6:168:LEU:N	1:6:446:HIS:HE1	2.10	0.45
1:6:198:ASN:ND2	1:6:201:GLY:O	2.45	0.45
1:D:122:ARG:HB3	1:D:246:TRP:HA	1.99	0.45
1:D:169:LEU:HD22	1:D:421:GLN:HB3	1.99	0.45
1:D:270:ASN:HD21	1:D:274:ASP:HB2	1.80	0.45
1:E:428:GLN:HB3	1:E:431:ILE:HG23	1.98	0.45
1:F:182:SER:OG	1:F:349:MET:SD	2.72	0.45
1:H:130:ILE:HG23	1:H:469:PHE:CD1	2.51	0.45
1:I:101:GLN:OE1	1:I:176:LEU:HD13	2.17	0.45
1:I:172:ASN:OD1	1:I:417:PRO:HD3	2.17	0.45
1:I:428:GLN:HB3	1:I:431:ILE:HG23	1.98	0.45
1:J:101:GLN:OE1	1:J:176:LEU:HD13	2.17	0.45
1:L:348:LYS:HG2	1:L:512:GLN:HE21	1.81	0.45
1:M:348:LYS:HG2	1:M:512:GLN:HE21	1.81	0.45
1:N:168:LEU:N	1:N:446:HIS:HE1	2.10	0.45
1:S:230:THR:HG21	1:d:152:THR:HG21	1.97	0.45
1:T:101:GLN:OE1	1:T:176:LEU:HD13	2.17	0.45
1:W:198:ASN:ND2	1:W:201:GLY:O	2.45	0.45
1:Z:101:GLN:OE1	1:Z:176:LEU:HD13	2.17	0.45
1:Z:178:GLY:HA3	1:Z:183:ASN:HD22	1.81	0.45
1:Z:182:SER:OG	1:Z:349:MET:SD	2.72	0.45
1:c:122:ARG:HB3	1:c:246:TRP:HA	1.99	0.45
1:d:168:LEU:N	1:d:446:HIS:HE1	2.10	0.45
1:e:348:LYS:HG2	1:e:512:GLN:HE21	1.81	0.45
1:g:451:VAL:HG11	1:g:465:GLU:HG3	1.98	0.45
1:g:501:LYS:HE2	1:l:209:GLY:O	2.17	0.45
1:i:168:LEU:N	1:i:446:HIS:HE1	2.10	0.45
1:k:122:ARG:HB3	1:k:246:TRP:HA	1.99	0.45
1:k:178:GLY:HA3	1:k:183:ASN:HD22	1.81	0.45
1:n:348:LYS:HG2	1:n:512:GLN:HE21	1.81	0.45
1:o:130:ILE:HG23	1:o:469:PHE:CD1	2.51	0.45
1:r:178:GLY:HA3	1:r:183:ASN:HD22	1.81	0.45
1:u:101:GLN:OE1	1:u:176:LEU:HD13	2.17	0.45
1:u:172:ASN:OD1	1:u:417:PRO:HD3	2.17	0.45
1:v:101:GLN:OE1	1:v:176:LEU:HD13	2.17	0.45
1:x:122:ARG:HB3	1:x:246:TRP:HA	1.99	0.45
1:y:101:GLN:OE1	1:y:176:LEU:HD13	2.17	0.45
1:5:182:SER:OG	1:5:349:MET:SD	2.72	0.45
1:5:499:ASP:HA	1:5:504:ARG:NH1	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:101:GLN:OE1	1:8:176:LEU:HD13	2.17	0.45
1:B:310:ALA:HA	1:L:384:MET:O	2.17	0.45
1:K:178:GLY:HA3	1:K:183:ASN:HD22	1.81	0.45
1:L:172:ASN:OD1	1:L:417:PRO:HD3	2.17	0.45
1:Q:122:ARG:HB3	1:Q:246:TRP:HA	1.99	0.45
1:S:380:ARG:N	1:U:313:ALA:O	2.39	0.45
1:V:172:ASN:OD1	1:V:417:PRO:HD3	2.17	0.45
1:W:168:LEU:N	1:W:446:HIS:HE1	2.10	0.45
1:X:172:ASN:OD1	1:X:417:PRO:HD3	2.17	0.45
1:X:198:ASN:ND2	1:X:201:GLY:O	2.45	0.45
1:a:172:ASN:OD1	1:a:417:PRO:HD3	2.17	0.45
1:b:172:ASN:OD1	1:b:417:PRO:HD3	2.17	0.45
1:b:182:SER:OG	1:b:349:MET:SD	2.72	0.45
1:c:348:LYS:HG2	1:c:512:GLN:HE21	1.81	0.45
1:d:141:THR:HG22	1:d:142:ASP:OD1	2.17	0.45
1:d:428:GLN:HB3	1:d:431:ILE:HG23	1.98	0.45
1:e:122:ARG:HB3	1:e:246:TRP:HA	1.99	0.45
1:f:172:ASN:OD1	1:f:417:PRO:HD3	2.17	0.45
1:h:348:LYS:HG2	1:h:512:GLN:HE21	1.81	0.45
1:k:270:ASN:HD21	1:k:274:ASP:HB2	1.80	0.45
1:m:101:GLN:OE1	1:m:176:LEU:HD13	2.17	0.45
1:n:141:THR:HG22	1:n:142:ASP:OD1	2.17	0.45
1:n:178:GLY:HA3	1:n:183:ASN:HD22	1.81	0.45
1:n:428:GLN:HB3	1:n:431:ILE:HG23	1.98	0.45
1:o:172:ASN:OD1	1:o:417:PRO:HD3	2.17	0.45
1:o:198:ASN:ND2	1:o:201:GLY:O	2.45	0.45
1:p:172:ASN:OD1	1:p:417:PRO:HD3	2.17	0.45
1:r:101:GLN:OE1	1:r:176:LEU:HD13	2.17	0.45
1:r:130:ILE:HG23	1:r:469:PHE:CD1	2.51	0.45
1:u:198:ASN:ND2	1:u:201:GLY:O	2.45	0.45
1:v:141:THR:HG22	1:v:142:ASP:OD1	2.17	0.45
1:x:323:PRO:HA	1:x:336:GLU:O	2.15	0.45
1:z:348:LYS:HG2	1:z:512:GLN:HE21	1.81	0.45
1:1:348:LYS:HG2	1:1:512:GLN:HE21	1.81	0.45
1:1:384:MET:O	1:2:310:ALA:HA	2.17	0.45
1:3:172:ASN:OD1	1:3:417:PRO:HD3	2.17	0.45
1:5:169:LEU:HD22	1:5:421:GLN:HB3	1.98	0.45
1:C:35:THR:HB	1:C:233:GLU:HB3	1.99	0.45
1:D:168:LEU:N	1:D:446:HIS:HE1	2.10	0.45
1:D:384:MET:O	1:N:310:ALA:HA	2.17	0.45
1:E:141:THR:HG22	1:E:142:ASP:OD1	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:101:GLN:OE1	1:G:176:LEU:HD13	2.17	0.45
1:G:122:ARG:HB3	1:G:246:TRP:HA	1.99	0.45
1:H:122:ARG:HB3	1:H:246:TRP:HA	1.99	0.45
1:H:169:LEU:HD22	1:H:421:GLN:HB3	1.99	0.45
1:H:384:MET:O	1:W:310:ALA:HA	2.17	0.45
1:H:499:ASP:HA	1:H:504:ARG:NH1	2.29	0.45
1:K:172:ASN:OD1	1:K:417:PRO:HD3	2.17	0.45
1:M:35:THR:HB	1:M:233:GLU:HB3	1.99	0.45
1:N:182:SER:OG	1:N:349:MET:SD	2.72	0.45
1:O:122:ARG:HB3	1:O:246:TRP:HA	1.99	0.45
1:P:122:ARG:HB3	1:P:246:TRP:HA	1.99	0.45
1:R:172:ASN:OD1	1:R:417:PRO:HD3	2.17	0.45
1:S:101:GLN:OE1	1:S:176:LEU:HD13	2.17	0.45
1:X:35:THR:HB	1:X:233:GLU:HB3	1.99	0.45
1:c:35:THR:HB	1:c:233:GLU:HB3	1.99	0.45
1:d:101:GLN:OE1	1:d:176:LEU:HD13	2.17	0.45
1:d:178:GLY:HA3	1:d:183:ASN:HD22	1.81	0.45
1:e:35:THR:HB	1:e:233:GLU:HB3	1.99	0.45
1:e:178:GLY:HA3	1:e:183:ASN:HD22	1.81	0.45
1:g:35:THR:HB	1:g:233:GLU:HB3	1.99	0.45
1:h:35:THR:HB	1:h:233:GLU:HB3	1.99	0.45
1:i:310:ALA:HA	1:k:384:MET:O	2.17	0.45
1:j:141:THR:HG22	1:j:142:ASP:OD1	2.17	0.45
1:l:101:GLN:OE1	1:l:176:LEU:HD13	2.17	0.45
1:l:122:ARG:HB3	1:l:246:TRP:HA	1.99	0.45
1:n:35:THR:HB	1:n:233:GLU:HB3	1.99	0.45
1:n:101:GLN:OE1	1:n:176:LEU:HD13	2.17	0.45
1:o:35:THR:HB	1:o:233:GLU:HB3	1.99	0.45
1:p:141:THR:HG22	1:p:142:ASP:OD1	2.17	0.45
1:q:35:THR:HB	1:q:233:GLU:HB3	1.99	0.45
1:q:168:LEU:N	1:q:446:HIS:HE1	2.10	0.45
1:r:209:GLY:O	1:x:501:LYS:HE2	2.17	0.45
1:t:101:GLN:OE1	1:t:176:LEU:HD13	2.17	0.45
1:w:141:THR:HG22	1:w:142:ASP:OD1	2.17	0.45
1:z:172:ASN:OD1	1:z:417:PRO:HD3	2.17	0.45
1:z:285:ARG:NH2	1:1:335:ASP:O	2.45	0.45
1:1:141:THR:HG22	1:1:142:ASP:OD1	2.17	0.45
1:2:35:THR:HB	1:2:233:GLU:HB3	1.99	0.45
1:3:122:ARG:HB3	1:3:246:TRP:HA	1.99	0.45
1:4:172:ASN:OD1	1:4:417:PRO:HD3	2.17	0.45
1:5:122:ARG:HB3	1:5:246:TRP:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:313:ALA:O	1:7:380:ARG:N	2.39	0.45
1:6:35:THR:HB	1:6:233:GLU:HB3	1.99	0.45
1:8:178:GLY:HA3	1:8:183:ASN:HD22	1.81	0.45
1:A:75:GLY:CA	1:A:86:GLN:HG3	2.47	0.45
1:A:141:THR:HG22	1:A:142:ASP:OD1	2.17	0.45
1:B:101:GLN:OE1	1:B:176:LEU:HD13	2.17	0.45
1:B:141:THR:HG22	1:B:142:ASP:OD1	2.17	0.45
1:B:384:MET:O	1:J:310:ALA:HA	2.17	0.45
1:C:384:MET:O	1:b:310:ALA:HA	2.17	0.45
1:F:335:ASP:O	1:Q:285:ARG:NH2	2.45	0.45
1:G:285:ARG:NH2	1:I:335:ASP:O	2.45	0.45
1:J:35:THR:HB	1:J:233:GLU:HB3	1.99	0.45
1:K:454:LYS:NZ	1:7:149:ASN:OD1	2.43	0.45
1:M:141:THR:HG22	1:M:142:ASP:OD1	2.17	0.45
1:N:75:GLY:CA	1:N:86:GLN:HG3	2.48	0.45
1:O:101:GLN:OE1	1:O:176:LEU:HD13	2.17	0.45
1:P:141:THR:HG22	1:P:142:ASP:OD1	2.17	0.45
1:Q:501:LYS:HE2	1:S:209:GLY:O	2.17	0.45
1:R:35:THR:HB	1:R:233:GLU:HB3	1.99	0.45
1:R:310:ALA:HA	1:U:384:MET:O	2.17	0.45
1:T:178:GLY:HA3	1:T:183:ASN:HD22	1.81	0.45
1:V:141:THR:HG22	1:V:142:ASP:OD1	2.17	0.45
1:W:35:THR:HB	1:W:233:GLU:HB3	1.99	0.45
1:W:172:ASN:OD1	1:W:417:PRO:HD3	2.17	0.45
1:X:75:GLY:CA	1:X:86:GLN:HG3	2.47	0.45
1:a:122:ARG:HB3	1:a:246:TRP:HA	1.99	0.45
1:c:101:GLN:OE1	1:c:176:LEU:HD13	2.17	0.45
1:c:141:THR:HG22	1:c:142:ASP:OD1	2.17	0.45
1:c:172:ASN:OD1	1:c:417:PRO:HD3	2.17	0.45
1:d:35:THR:HB	1:d:233:GLU:HB3	1.99	0.45
1:e:101:GLN:OE1	1:e:176:LEU:HD13	2.17	0.45
1:e:141:THR:HG22	1:e:142:ASP:OD1	2.17	0.45
1:e:172:ASN:OD1	1:e:417:PRO:HD3	2.17	0.45
1:e:451:VAL:HG11	1:e:465:GLU:HG3	1.98	0.45
1:f:178:GLY:HA3	1:f:183:ASN:HD22	1.81	0.45
1:f:310:ALA:HA	1:g:384:MET:O	2.17	0.45
1:h:101:GLN:OE1	1:h:176:LEU:HD13	2.17	0.45
1:h:141:THR:HG22	1:h:142:ASP:OD1	2.17	0.45
1:i:75:GLY:CA	1:i:86:GLN:HG3	2.48	0.45
1:j:122:ARG:HB3	1:j:246:TRP:HA	1.99	0.45
1:k:130:ILE:HG23	1:k:469:PHE:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:75:GLY:CA	1:m:86:GLN:HG3	2.47	0.45
1:m:178:GLY:HA3	1:m:183:ASN:HD22	1.81	0.45
1:o:75:GLY:CA	1:o:86:GLN:HG3	2.47	0.45
1:q:172:ASN:OD1	1:q:417:PRO:HD3	2.17	0.45
1:q:384:MET:O	1:r:310:ALA:HA	2.17	0.45
1:r:75:GLY:CA	1:r:86:GLN:HG3	2.47	0.45
1:r:380:ARG:N	1:s:313:ALA:O	2.39	0.45
1:s:122:ARG:HB3	1:s:246:TRP:HA	1.99	0.45
1:t:122:ARG:HB3	1:t:246:TRP:HA	1.99	0.45
1:v:75:GLY:CA	1:v:86:GLN:HG3	2.47	0.45
1:z:101:GLN:OE1	1:z:176:LEU:HD13	2.17	0.45
1:2:348:LYS:HG2	1:2:512:GLN:HE21	1.81	0.45
1:4:141:THR:HG22	1:4:142:ASP:OD1	2.17	0.45
1:A:209:GLY:O	1:B:501:LYS:HE2	2.17	0.44
1:A:384:MET:O	1:G:310:ALA:HA	2.17	0.44
1:B:122:ARG:HB3	1:B:246:TRP:HA	1.99	0.44
1:C:101:GLN:OE1	1:C:176:LEU:HD13	2.17	0.44
1:D:130:ILE:HG23	1:D:469:PHE:CD1	2.51	0.44
1:H:348:LYS:HG2	1:H:512:GLN:HE21	1.81	0.44
1:J:348:LYS:HG2	1:J:512:GLN:HE21	1.81	0.44
1:K:141:THR:HG22	1:K:142:ASP:OD1	2.17	0.44
1:L:101:GLN:OE1	1:L:176:LEU:HD13	2.17	0.44
1:M:310:ALA:HA	1:b:384:MET:O	2.17	0.44
1:R:168:LEU:N	1:R:446:HIS:HE1	2.10	0.44
1:S:75:GLY:CA	1:S:86:GLN:HG3	2.47	0.44
1:S:501:LYS:HE2	1:d:209:GLY:O	2.17	0.44
1:T:75:GLY:CA	1:T:86:GLN:HG3	2.47	0.44
1:T:301:ALA:O	1:l:272:ARG:NH2	2.37	0.44
1:T:384:MET:O	1:d:310:ALA:HA	2.17	0.44
1:U:122:ARG:HB3	1:U:246:TRP:HA	1.99	0.44
1:U:172:ASN:OD1	1:U:417:PRO:HD3	2.17	0.44
1:W:384:MET:O	1:Y:310:ALA:HA	2.17	0.44
1:c:428:GLN:HB3	1:c:431:ILE:HG23	1.98	0.44
1:c:451:VAL:HG11	1:c:465:GLU:HG3	1.98	0.44
1:c:454:LYS:NZ	1:s:149:ASN:OD1	2.44	0.44
1:d:384:MET:O	1:l:310:ALA:HA	2.17	0.44
1:e:428:GLN:HB3	1:c:431:ILE:HG23	1.98	0.44
1:e:501:LYS:HE2	1:h:209:GLY:O	2.17	0.44
1:f:384:MET:O	1:h:310:ALA:HA	2.17	0.44
1:g:101:GLN:OE1	1:g:176:LEU:HD13	2.17	0.44
1:h:149:ASN:OD1	1:i:454:LYS:NZ	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:141:THR:HG22	1:l:142:ASP:OD1	2.17	0.44
1:l:428:GLN:HB3	1:l:431:ILE:HG23	1.98	0.44
1:q:310:ALA:HA	1:s:384:MET:O	2.17	0.44
1:s:172:ASN:OD1	1:s:417:PRO:HD3	2.17	0.44
1:s:451:VAL:HG11	1:s:465:GLU:HG3	1.98	0.44
1:t:285:ARG:NH2	1:u:335:ASP:O	2.45	0.44
1:u:209:GLY:O	1:5:501:LYS:HE2	2.17	0.44
1:v:172:ASN:OD1	1:v:417:PRO:HD3	2.17	0.44
1:v:428:GLN:HB3	1:v:431:ILE:HG23	1.98	0.44
1:x:172:ASN:OD1	1:x:417:PRO:HD3	2.17	0.44
1:x:285:ARG:NH2	1:y:335:ASP:O	2.45	0.44
1:y:428:GLN:HB3	1:y:431:ILE:HG23	1.98	0.44
1:z:35:THR:HB	1:z:233:GLU:HB3	1.99	0.44
1:1:101:GLN:OE1	1:1:176:LEU:HD13	2.17	0.44
1:1:122:ARG:HB3	1:1:246:TRP:HA	1.99	0.44
1:3:310:ALA:HA	1:4:384:MET:O	2.17	0.44
1:5:35:THR:HB	1:5:233:GLU:HB3	1.99	0.44
1:5:335:ASP:O	1:7:285:ARG:NH2	2.44	0.44
1:5:348:LYS:HG2	1:5:512:GLN:HE21	1.81	0.44
1:6:172:ASN:OD1	1:6:417:PRO:HD3	2.17	0.44
1:7:182:SER:OG	1:7:349:MET:SD	2.72	0.44
1:8:348:LYS:HG2	1:8:512:GLN:HE21	1.81	0.44
1:A:172:ASN:OD1	1:A:417:PRO:HD3	2.17	0.44
1:E:101:GLN:OE1	1:E:176:LEU:HD13	2.17	0.44
1:F:209:GLY:O	1:R:501:LYS:HE2	2.17	0.44
1:F:348:LYS:HG2	1:F:512:GLN:HE21	1.81	0.44
1:F:428:GLN:HB3	1:F:431:ILE:HG23	1.98	0.44
1:G:348:LYS:HG2	1:G:512:GLN:HE21	1.81	0.44
1:H:182:SER:OG	1:H:349:MET:SD	2.72	0.44
1:H:501:LYS:HE2	1:I:209:GLY:O	2.17	0.44
1:K:384:MET:O	1:a:310:ALA:HA	2.17	0.44
1:L:35:THR:HB	1:L:233:GLU:HB3	1.99	0.44
1:L:75:GLY:CA	1:L:86:GLN:HG3	2.47	0.44
1:L:451:VAL:HG11	1:L:465:GLU:HG3	1.98	0.44
1:M:101:GLN:OE1	1:M:176:LEU:HD13	2.17	0.44
1:M:209:GLY:O	1:c:501:LYS:HE2	2.17	0.44
1:O:141:THR:HG22	1:O:142:ASP:OD1	2.17	0.44
1:O:310:ALA:HA	1:n:384:MET:O	2.17	0.44
1:O:428:GLN:HB3	1:O:431:ILE:HG23	1.98	0.44
1:P:75:GLY:CA	1:P:86:GLN:HG3	2.47	0.44
1:P:428:GLN:HB3	1:P:431:ILE:HG23	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:501:LYS:HE2	1:Q:209:GLY:O	2.17	0.44
1:Q:172:ASN:OD1	1:Q:417:PRO:HD3	2.17	0.44
1:Q:428:GLN:HB3	1:Q:431:ILE:HG23	1.98	0.44
1:R:428:GLN:HB3	1:R:431:ILE:HG23	1.98	0.44
1:S:385:SER:HB3	1:S:396:ILE:HD11	2.00	0.44
1:T:105:HIS:CD2	1:T:418:ILE:HD11	2.53	0.44
1:T:428:GLN:HB3	1:T:431:ILE:HG23	1.98	0.44
1:U:178:GLY:HA3	1:U:183:ASN:HD22	1.81	0.44
1:U:451:VAL:HG11	1:U:465:GLU:HG3	1.98	0.44
1:V:384:MET:O	1:e:310:ALA:HA	2.17	0.44
1:X:310:ALA:HA	1:e:384:MET:O	2.17	0.44
1:Y:149:ASN:OD1	1:4:454:LYS:NZ	2.43	0.44
1:Z:35:THR:HB	1:Z:233:GLU:HB3	1.99	0.44
1:Z:172:ASN:OD1	1:Z:417:PRO:HD3	2.17	0.44
1:Z:348:LYS:HG2	1:Z:512:GLN:HE21	1.81	0.44
1:b:122:ARG:HB3	1:b:246:TRP:HA	1.99	0.44
1:b:178:GLY:HA3	1:b:183:ASN:HD22	1.81	0.44
1:c:178:GLY:HA3	1:c:183:ASN:HD22	1.81	0.44
1:c:384:MET:O	1:o:310:ALA:HA	2.17	0.44
1:f:122:ARG:HB3	1:f:246:TRP:HA	1.99	0.44
1:g:75:GLY:CA	1:g:86:GLN:HG3	2.47	0.44
1:j:75:GLY:CA	1:j:86:GLN:HG3	2.47	0.44
1:j:172:ASN:OD1	1:j:417:PRO:HD3	2.17	0.44
1:j:501:LYS:HE2	1:x:209:GLY:O	2.17	0.44
1:k:35:THR:HB	1:k:233:GLU:HB3	1.99	0.44
1:m:384:MET:O	1:n:310:ALA:HA	2.17	0.44
1:m:451:VAL:HG11	1:m:465:GLU:HG3	1.98	0.44
1:n:209:GLY:O	1:r:501:LYS:HE2	2.17	0.44
1:p:101:GLN:OE1	1:p:176:LEU:HD13	2.17	0.44
1:p:122:ARG:HB3	1:p:246:TRP:HA	1.99	0.44
1:q:501:LYS:HE2	1:y:209:GLY:O	2.17	0.44
1:t:310:ALA:HA	1:v:384:MET:O	2.17	0.44
1:t:428:GLN:O	1:v:430:LYS:NZ	2.39	0.44
1:x:75:GLY:CA	1:x:86:GLN:HG3	2.47	0.44
1:x:428:GLN:HB3	1:x:431:ILE:HG23	1.98	0.44
1:y:105:HIS:CD2	1:y:418:ILE:HD11	2.53	0.44
1:y:141:THR:HG22	1:y:142:ASP:OD1	2.17	0.44
1:z:75:GLY:CA	1:z:86:GLN:HG3	2.47	0.44
1:z:384:MET:O	1:1:310:ALA:HA	2.17	0.44
1:z:430:LYS:NZ	1:1:428:GLN:O	2.39	0.44
1:2:105:HIS:CD2	1:2:418:ILE:HD11	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:105:HIS:CD2	1:5:418:ILE:HD11	2.53	0.44
1:6:101:GLN:OE1	1:6:176:LEU:HD13	2.17	0.44
1:7:105:HIS:CD2	1:7:418:ILE:HD11	2.53	0.44
1:A:301:ALA:O	1:I:272:ARG:NH2	2.37	0.44
1:A:428:GLN:HB3	1:A:431:ILE:HG23	1.98	0.44
1:B:194:THR:HG22	1:B:195:SER:H	1.83	0.44
1:C:75:GLY:CA	1:C:86:GLN:HG3	2.47	0.44
1:D:35:THR:HB	1:D:233:GLU:HB3	1.99	0.44
1:D:75:GLY:CA	1:D:86:GLN:HG3	2.48	0.44
1:D:105:HIS:CD2	1:D:418:ILE:HD11	2.53	0.44
1:F:105:HIS:CD2	1:F:418:ILE:HD11	2.53	0.44
1:F:141:THR:HG22	1:F:142:ASP:OD1	2.17	0.44
1:G:172:ASN:OD1	1:G:417:PRO:HD3	2.17	0.44
1:H:35:THR:HB	1:H:233:GLU:HB3	1.99	0.44
1:H:105:HIS:CD2	1:H:418:ILE:HD11	2.53	0.44
1:H:178:GLY:HA3	1:H:183:ASN:HD22	1.81	0.44
1:J:105:HIS:CD2	1:J:418:ILE:HD11	2.53	0.44
1:L:52:TYR:CD1	1:L:474:GLU:HG2	2.53	0.44
1:L:501:LYS:HE2	1:b:209:GLY:O	2.17	0.44
1:M:501:LYS:HE2	1:N:209:GLY:O	2.17	0.44
1:N:285:ARG:O	1:P:170:TYR:OH	2.30	0.44
1:O:267:TRP:CE3	1:m:359:ILE:HD13	2.53	0.44
1:O:272:ARG:NH2	1:m:301:ALA:O	2.37	0.44
1:O:501:LYS:HE2	1:P:209:GLY:O	2.17	0.44
1:P:172:ASN:OD1	1:P:417:PRO:HD3	2.17	0.44
1:Q:75:GLY:CA	1:Q:86:GLN:HG3	2.47	0.44
1:R:141:THR:HG22	1:R:142:ASP:OD1	2.17	0.44
1:R:384:MET:O	1:S:310:ALA:HA	2.17	0.44
1:T:359:ILE:HD13	1:l:267:TRP:CE3	2.53	0.44
1:T:451:VAL:HG11	1:T:465:GLU:HG3	1.98	0.44
1:V:101:GLN:OE1	1:V:176:LEU:HD13	2.17	0.44
1:V:122:ARG:HB3	1:V:246:TRP:HA	1.99	0.44
1:W:75:GLY:CA	1:W:86:GLN:HG3	2.48	0.44
1:W:101:GLN:OE1	1:W:176:LEU:HD13	2.17	0.44
1:W:141:THR:HG22	1:W:142:ASP:OD1	2.17	0.44
1:Y:105:HIS:CD2	1:Y:418:ILE:HD11	2.53	0.44
1:b:317:ASP:OD1	1:b:317:ASP:N	2.43	0.44
1:b:348:LYS:HG2	1:b:512:GLN:HE21	1.81	0.44
1:b:451:VAL:HG11	1:b:465:GLU:HG3	1.98	0.44
1:c:310:ALA:HA	1:p:384:MET:O	2.17	0.44
1:c:385:SER:HB3	1:c:396:ILE:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:169:LEU:HD22	1:d:421:GLN:HB3	1.98	0.44
1:d:385:SER:HB3	1:d:396:ILE:HD11	2.00	0.44
1:d:451:VAL:HG11	1:d:465:GLU:HG3	1.98	0.44
1:e:385:SER:HB3	1:e:396:ILE:HD11	2.00	0.44
1:f:209:GLY:O	1:z:501:LYS:HE2	2.17	0.44
1:i:141:THR:HG22	1:i:142:ASP:OD1	2.17	0.44
1:i:182:SER:OG	1:i:349:MET:SD	2.72	0.44
1:j:428:GLN:HB3	1:j:431:ILE:HG23	1.98	0.44
1:k:105:HIS:CD2	1:k:418:ILE:HD11	2.53	0.44
1:k:141:THR:HG22	1:k:142:ASP:OD1	2.17	0.44
1:k:348:LYS:HG2	1:k:512:GLN:HE21	1.81	0.44
1:m:105:HIS:CD2	1:m:418:ILE:HD11	2.53	0.44
1:n:172:ASN:OD1	1:n:417:PRO:HD3	2.17	0.44
1:n:385:SER:HB3	1:n:396:ILE:HD11	2.00	0.44
1:n:451:VAL:HG11	1:n:465:GLU:HG3	1.98	0.44
1:o:501:LYS:HE2	1:7:209:GLY:O	2.17	0.44
1:p:451:VAL:HG11	1:p:465:GLU:HG3	1.98	0.44
1:q:141:THR:HG22	1:q:142:ASP:OD1	2.17	0.44
1:q:428:GLN:HB3	1:q:431:ILE:HG23	1.98	0.44
1:r:385:SER:HB3	1:r:396:ILE:HD11	2.00	0.44
1:t:178:GLY:HA3	1:t:183:ASN:HD22	1.81	0.44
1:t:348:LYS:HG2	1:t:512:GLN:HE21	1.81	0.44
1:v:198:ASN:ND2	1:v:201:GLY:O	2.45	0.44
1:w:101:GLN:OE1	1:w:176:LEU:HD13	2.17	0.44
1:w:451:VAL:HG11	1:w:465:GLU:HG3	1.98	0.44
1:y:348:LYS:HG2	1:y:512:GLN:HE21	1.81	0.44
1:z:451:VAL:HG11	1:z:465:GLU:HG3	1.98	0.44
1:6:75:GLY:CA	1:6:86:GLN:HG3	2.47	0.44
1:6:384:MET:O	1:7:310:ALA:HA	2.17	0.44
1:8:35:THR:HB	1:8:233:GLU:HB3	1.99	0.44
1:8:75:GLY:CA	1:8:86:GLN:HG3	2.47	0.44
1:8:172:ASN:OD1	1:8:417:PRO:HD3	2.17	0.44
1:A:198:ASN:ND2	1:A:201:GLY:O	2.45	0.44
1:A:451:VAL:HG11	1:A:465:GLU:HG3	1.98	0.44
1:C:105:HIS:CD2	1:C:418:ILE:HD11	2.53	0.44
1:C:172:ASN:OD1	1:C:417:PRO:HD3	2.17	0.44
1:D:101:GLN:OE1	1:D:176:LEU:HD13	2.17	0.44
1:D:141:THR:HG22	1:D:142:ASP:OD1	2.17	0.44
1:D:194:THR:HG22	1:D:195:SER:H	1.83	0.44
1:D:310:ALA:HA	1:P:384:MET:O	2.17	0.44
1:D:348:LYS:HG2	1:D:512:GLN:HE21	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:172:ASN:OD1	1:E:417:PRO:HD3	2.17	0.44
1:E:451:VAL:HG11	1:E:465:GLU:HG3	1.98	0.44
1:G:178:GLY:HA3	1:G:183:ASN:HD22	1.81	0.44
1:G:194:THR:HG22	1:G:195:SER:H	1.83	0.44
1:I:35:THR:HB	1:I:233:GLU:HB3	1.99	0.44
1:K:75:GLY:CA	1:K:86:GLN:HG3	2.47	0.44
1:K:385:SER:HB3	1:K:396:ILE:HD11	2.00	0.44
1:M:168:LEU:N	1:M:446:HIS:HE1	2.10	0.44
1:N:384:MET:O	1:P:310:ALA:HA	2.17	0.44
1:P:35:THR:HB	1:P:233:GLU:HB3	1.99	0.44
1:P:101:GLN:OE1	1:P:176:LEU:HD13	2.17	0.44
1:P:168:LEU:N	1:P:446:HIS:HE1	2.10	0.44
1:R:52:TYR:CD1	1:R:474:GLU:HG2	2.53	0.44
1:S:35:THR:HB	1:S:233:GLU:HB3	1.99	0.44
1:T:194:THR:HG22	1:T:195:SER:H	1.83	0.44
1:U:501:LYS:HE2	1:e:209:GLY:O	2.17	0.44
1:V:35:THR:HB	1:V:233:GLU:HB3	1.99	0.44
1:V:310:ALA:HA	1:X:384:MET:O	2.17	0.44
1:V:451:VAL:HG11	1:V:465:GLU:HG3	1.98	0.44
1:Z:105:HIS:CD2	1:Z:418:ILE:HD11	2.53	0.44
1:a:105:HIS:CD2	1:a:418:ILE:HD11	2.53	0.44
1:d:130:ILE:HG23	1:d:469:PHE:CD1	2.51	0.44
1:d:172:ASN:OD1	1:d:417:PRO:HD3	2.17	0.44
1:f:35:THR:HB	1:f:233:GLU:HB3	1.99	0.44
1:f:141:THR:HG22	1:f:142:ASP:OD1	2.17	0.44
1:f:348:LYS:HG2	1:f:512:GLN:HE21	1.81	0.44
1:f:385:SER:HB3	1:f:396:ILE:HD11	2.00	0.44
1:j:35:THR:HB	1:j:233:GLU:HB3	1.99	0.44
1:j:209:GLY:O	1:l:501:LYS:HE2	2.17	0.44
1:j:384:MET:O	1:k:310:ALA:HA	2.17	0.44
1:k:75:GLY:CA	1:k:86:GLN:HG3	2.48	0.44
1:k:194:THR:HG22	1:k:195:SER:H	1.83	0.44
1:l:451:VAL:HG11	1:l:465:GLU:HG3	1.98	0.44
1:m:194:THR:HG22	1:m:195:SER:H	1.83	0.44
1:m:428:GLN:HB3	1:m:431:ILE:HG23	1.98	0.44
1:n:105:HIS:CD2	1:n:418:ILE:HD11	2.53	0.44
1:n:130:ILE:HG23	1:n:469:PHE:CD1	2.51	0.44
1:o:384:MET:O	1:p:310:ALA:HA	2.17	0.44
1:p:35:THR:HB	1:p:233:GLU:HB3	1.99	0.44
1:q:198:ASN:ND2	1:q:201:GLY:O	2.45	0.44
1:r:35:THR:HB	1:r:233:GLU:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:141:THR:HG22	1:s:142:ASP:OD1	2.17	0.44
1:s:178:GLY:HA3	1:s:183:ASN:HD22	1.81	0.44
1:t:52:TYR:CD1	1:t:474:GLU:HG2	2.53	0.44
1:t:169:LEU:HD22	1:t:421:GLN:HB3	1.98	0.44
1:t:172:ASN:OD1	1:t:417:PRO:HD3	2.17	0.44
1:t:194:THR:HG22	1:t:195:SER:H	1.83	0.44
1:u:75:GLY:CA	1:u:86:GLN:HG3	2.47	0.44
1:u:348:LYS:HG2	1:u:512:GLN:HE21	1.81	0.44
1:u:370:ASP:H	1:u:527:MET:HE1	1.83	0.44
1:v:451:VAL:HG11	1:v:465:GLU:HG3	1.98	0.44
1:x:141:THR:HG22	1:x:142:ASP:OD1	2.17	0.44
1:x:384:MET:O	1:y:310:ALA:HA	2.17	0.44
1:z:52:TYR:CD1	1:z:474:GLU:HG2	2.53	0.44
1:1:172:ASN:OD1	1:1:417:PRO:HD3	2.17	0.44
1:2:178:GLY:HA3	1:2:183:ASN:HD22	1.81	0.44
1:4:75:GLY:CA	1:4:86:GLN:HG3	2.47	0.44
1:4:385:SER:HB3	1:4:396:ILE:HD11	2.00	0.44
1:5:75:GLY:CA	1:5:86:GLN:HG3	2.47	0.44
1:5:141:THR:HG22	1:5:142:ASP:OD1	2.17	0.44
1:6:141:THR:HG22	1:6:142:ASP:OD1	2.17	0.44
1:7:75:GLY:CA	1:7:86:GLN:HG3	2.47	0.44
1:8:105:HIS:CD2	1:8:418:ILE:HD11	2.53	0.44
1:A:501:LYS:HE2	1:E:209:GLY:O	2.17	0.44
1:C:178:GLY:HA3	1:C:183:ASN:HD22	1.81	0.44
1:C:209:GLY:O	1:D:501:LYS:HE2	2.17	0.44
1:F:310:ALA:HA	1:Q:384:MET:O	2.17	0.44
1:G:52:TYR:CD1	1:G:474:GLU:HG2	2.53	0.44
1:G:141:THR:HG22	1:G:142:ASP:OD1	2.17	0.44
1:G:169:LEU:HD22	1:G:421:GLN:HB3	1.98	0.44
1:G:384:MET:O	1:I:310:ALA:HA	2.17	0.44
1:H:75:GLY:CA	1:H:86:GLN:HG3	2.47	0.44
1:H:141:THR:HG22	1:H:142:ASP:OD1	2.17	0.44
1:I:75:GLY:CA	1:I:86:GLN:HG3	2.47	0.44
1:I:105:HIS:CD2	1:I:418:ILE:HD11	2.53	0.44
1:I:370:ASP:H	1:I:527:MET:HE1	1.83	0.44
1:J:172:ASN:OD1	1:J:417:PRO:HD3	2.17	0.44
1:J:182:SER:OG	1:J:349:MET:SD	2.72	0.44
1:J:451:VAL:HG11	1:J:465:GLU:HG3	1.98	0.44
1:L:161:GLN:NE2	1:L:445:GLY:H	2.16	0.44
1:M:149:ASN:OD1	1:N:454:LYS:NZ	2.44	0.44
1:N:141:THR:HG22	1:N:142:ASP:OD1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:194:THR:HG22	1:N:195:SER:H	1.83	0.44
1:O:52:TYR:CD1	1:O:474:GLU:HG2	2.53	0.44
1:O:451:VAL:HG11	1:O:465:GLU:HG3	1.98	0.44
1:Q:141:THR:HG22	1:Q:142:ASP:OD1	2.17	0.44
1:R:169:LEU:HD22	1:R:421:GLN:HB3	1.98	0.44
1:R:380:ARG:N	1:S:313:ALA:O	2.39	0.44
1:T:52:TYR:CD1	1:T:474:GLU:HG2	2.53	0.44
1:U:141:THR:HG22	1:U:142:ASP:OD1	2.17	0.44
1:U:149:ASN:OD1	1:e:454:LYS:NZ	2.44	0.44
1:V:75:GLY:CA	1:V:86:GLN:HG3	2.47	0.44
1:W:182:SER:OG	1:W:349:MET:SD	2.72	0.44
1:W:451:VAL:HG11	1:W:465:GLU:HG3	1.98	0.44
1:X:209:GLY:O	1:f:501:LYS:HE2	2.17	0.44
1:X:501:LYS:HE2	1:Y:209:GLY:O	2.17	0.44
1:Y:101:GLN:OE1	1:Y:176:LEU:HD13	2.17	0.44
1:Y:169:LEU:HD22	1:Y:421:GLN:HB3	1.99	0.44
1:Y:194:THR:HG22	1:Y:195:SER:H	1.83	0.44
1:Z:75:GLY:CA	1:Z:86:GLN:HG3	2.47	0.44
1:Z:267:TRP:CE3	1:4:359:ILE:HD13	2.53	0.44
1:a:75:GLY:CA	1:a:86:GLN:HG3	2.47	0.44
1:a:194:THR:HG22	1:a:195:SER:H	1.83	0.44
1:b:35:THR:HB	1:b:233:GLU:HB3	1.99	0.44
1:b:101:GLN:OE1	1:b:176:LEU:HD13	2.17	0.44
1:b:141:THR:HG22	1:b:142:ASP:OD1	2.17	0.44
1:b:385:SER:HB3	1:b:396:ILE:HD11	2.00	0.44
1:c:75:GLY:CA	1:c:86:GLN:HG3	2.47	0.44
1:d:105:HIS:CD2	1:d:418:ILE:HD11	2.53	0.44
1:f:101:GLN:OE1	1:f:176:LEU:HD13	2.17	0.44
1:f:451:VAL:HG11	1:f:465:GLU:HG3	1.98	0.44
1:g:105:HIS:CD2	1:g:418:ILE:HD11	2.53	0.44
1:h:501:LYS:HE2	1:i:209:GLY:O	2.17	0.44
1:i:194:THR:HG22	1:i:195:SER:H	1.83	0.44
1:i:384:MET:O	1:j:310:ALA:HA	2.17	0.44
1:j:272:ARG:NH2	1:k:301:ALA:O	2.37	0.44
1:k:101:GLN:OE1	1:k:176:LEU:HD13	2.17	0.44
1:l:52:TYR:CD1	1:l:474:GLU:HG2	2.53	0.44
1:m:52:TYR:CD1	1:m:474:GLU:HG2	2.53	0.44
1:n:169:LEU:HD22	1:n:421:GLN:HB3	1.98	0.44
1:q:370:ASP:H	1:q:527:MET:HE1	1.83	0.44
1:t:75:GLY:CA	1:t:86:GLN:HG3	2.47	0.44
1:u:35:THR:HB	1:u:233:GLU:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:209:GLY:O	1:1:501:LYS:HE2	2.17	0.44
1:v:501:LYS:HE2	1:w:209:GLY:O	2.17	0.44
1:z:161:GLN:NE2	1:z:445:GLY:H	2.16	0.44
1:z:310:ALA:HA	1:2:384:MET:O	2.17	0.44
1:1:194:THR:HG22	1:1:195:SER:H	1.83	0.44
1:3:75:GLY:CA	1:3:86:GLN:HG3	2.47	0.44
1:3:105:HIS:CD2	1:3:418:ILE:HD11	2.53	0.44
1:3:194:THR:HG22	1:3:195:SER:H	1.83	0.44
1:5:178:GLY:HA3	1:5:183:ASN:HD22	1.81	0.44
1:6:182:SER:OG	1:6:349:MET:SD	2.72	0.44
1:7:101:GLN:OE1	1:7:176:LEU:HD13	2.17	0.44
1:7:169:LEU:HD22	1:7:421:GLN:HB3	1.99	0.44
1:7:194:THR:HG22	1:7:195:SER:H	1.83	0.44
1:A:161:GLN:NE2	1:A:445:GLY:H	2.16	0.44
1:A:430:LYS:NZ	1:G:428:GLN:O	2.39	0.44
1:B:105:HIS:CD2	1:B:418:ILE:HD11	2.53	0.44
1:B:172:ASN:OD1	1:B:417:PRO:HD3	2.17	0.44
1:C:161:GLN:NE2	1:C:445:GLY:H	2.16	0.44
1:D:52:TYR:CD1	1:D:474:GLU:HG2	2.53	0.44
1:E:105:HIS:CD2	1:E:418:ILE:HD11	2.53	0.44
1:F:428:GLN:O	1:Q:430:LYS:NZ	2.39	0.44
1:G:75:GLY:CA	1:G:86:GLN:HG3	2.47	0.44
1:H:172:ASN:OD1	1:H:417:PRO:HD3	2.17	0.44
1:H:310:ALA:HA	1:Y:384:MET:O	2.17	0.44
1:I:348:LYS:HG2	1:I:512:GLN:HE21	1.81	0.44
1:J:178:GLY:HA3	1:J:183:ASN:HD22	1.81	0.44
1:K:359:ILE:HD13	1:8:267:TRP:CE3	2.53	0.44
1:M:172:ASN:OD1	1:M:417:PRO:HD3	2.17	0.44
1:R:75:GLY:CA	1:R:86:GLN:HG3	2.47	0.44
1:R:170:TYR:OH	1:U:285:ARG:O	2.29	0.44
1:R:198:ASN:ND2	1:R:201:GLY:O	2.45	0.44
1:R:209:GLY:O	1:V:501:LYS:HE2	2.17	0.44
1:R:370:ASP:H	1:R:527:MET:HE1	1.83	0.44
1:S:105:HIS:CD2	1:S:418:ILE:HD11	2.53	0.44
1:S:122:ARG:HB3	1:S:246:TRP:HA	1.99	0.44
1:T:141:THR:HG22	1:T:142:ASP:OD1	2.17	0.44
1:T:385:SER:HB3	1:T:396:ILE:HD11	2.00	0.44
1:U:35:THR:HB	1:U:233:GLU:HB3	1.99	0.44
1:V:105:HIS:CD2	1:V:418:ILE:HD11	2.53	0.44
1:V:267:TRP:CE3	1:e:359:ILE:HD13	2.53	0.44
1:V:359:ILE:HD13	1:X:267:TRP:CE3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:122:ARG:HB3	1:X:246:TRP:HA	1.99	0.44
1:Y:75:GLY:CA	1:Y:86:GLN:HG3	2.48	0.44
1:Z:384:MET:O	1:4:310:ALA:HA	2.17	0.44
1:b:501:LYS:HE2	1:o:209:GLY:O	2.17	0.44
1:c:209:GLY:O	1:s:501:LYS:HE2	2.17	0.44
1:c:359:ILE:HD13	1:p:267:TRP:CE3	2.53	0.44
1:e:75:GLY:CA	1:e:86:GLN:HG3	2.47	0.44
1:g:172:ASN:OD1	1:g:417:PRO:HD3	2.17	0.44
1:g:209:GLY:O	1:k:501:LYS:HE2	2.17	0.44
1:h:172:ASN:OD1	1:h:417:PRO:HD3	2.17	0.44
1:h:194:THR:HG22	1:h:195:SER:H	1.83	0.44
1:j:101:GLN:OE1	1:j:176:LEU:HD13	2.17	0.44
1:j:168:LEU:N	1:j:446:HIS:HE1	2.10	0.44
1:j:169:LEU:HD22	1:j:421:GLN:HB3	1.99	0.44
1:j:182:SER:OG	1:j:349:MET:SD	2.72	0.44
1:k:52:TYR:CD1	1:k:474:GLU:HG2	2.53	0.44
1:k:209:GLY:O	1:w:501:LYS:HE2	2.17	0.44
1:p:105:HIS:CD2	1:p:418:ILE:HD11	2.53	0.44
1:q:52:TYR:CD1	1:q:474:GLU:HG2	2.53	0.44
1:q:194:THR:HG22	1:q:195:SER:H	1.83	0.44
1:r:122:ARG:HB3	1:r:246:TRP:HA	1.99	0.44
1:u:105:HIS:CD2	1:u:418:ILE:HD11	2.53	0.44
1:v:35:THR:HB	1:v:233:GLU:HB3	1.99	0.44
1:v:161:GLN:NE2	1:v:445:GLY:H	2.16	0.44
1:w:172:ASN:OD1	1:w:417:PRO:HD3	2.17	0.44
1:w:267:TRP:CE3	1:x:359:ILE:HD13	2.53	0.44
1:1:52:TYR:CD1	1:1:474:GLU:HG2	2.53	0.44
1:1:105:HIS:CD2	1:1:418:ILE:HD11	2.53	0.44
1:2:172:ASN:OD1	1:2:417:PRO:HD3	2.17	0.44
1:4:169:LEU:HD22	1:4:421:GLN:HB3	1.98	0.44
1:5:52:TYR:CD1	1:5:474:GLU:HG2	2.53	0.44
1:5:172:ASN:OD1	1:5:417:PRO:HD3	2.17	0.44
1:6:451:VAL:HG11	1:6:465:GLU:HG3	1.98	0.44
1:7:52:TYR:CD1	1:7:474:GLU:HG2	2.53	0.44
1:7:141:THR:HG22	1:7:142:ASP:OD1	2.17	0.44
1:A:35:THR:HB	1:A:233:GLU:HB3	1.99	0.44
1:B:325:MET:SD	1:L:403:PRO:HD2	2.58	0.44
1:B:495:TYR:HB2	1:I:489:MET:HB2	2.00	0.44
1:D:209:GLY:O	1:E:501:LYS:HE2	2.17	0.44
1:E:76:GLN:HB2	1:E:84:GLN:OE1	2.18	0.44
1:E:194:THR:HG22	1:E:195:SER:H	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:267:TRP:CE3	1:Q:359:ILE:HD13	2.53	0.44
1:E:385:SER:HB3	1:E:396:ILE:HD11	2.00	0.44
1:F:75:GLY:CA	1:F:86:GLN:HG3	2.47	0.44
1:F:359:ILE:HD13	1:Q:267:TRP:CE3	2.53	0.44
1:G:35:THR:HB	1:G:233:GLU:HB3	1.99	0.44
1:G:105:HIS:CD2	1:G:418:ILE:HD11	2.53	0.44
1:H:52:TYR:CD1	1:H:474:GLU:HG2	2.53	0.44
1:I:52:TYR:CD1	1:I:474:GLU:HG2	2.53	0.44
1:J:384:MET:O	1:L:310:ALA:HA	2.17	0.44
1:K:161:GLN:NE2	1:K:445:GLY:H	2.16	0.44
1:K:169:LEU:HD22	1:K:421:GLN:HB3	1.98	0.44
1:K:209:GLY:O	1:7:501:LYS:HE2	2.18	0.44
1:K:310:ALA:HA	1:8:384:MET:O	2.17	0.44
1:K:370:ASP:H	1:K:527:MET:HE1	1.83	0.44
1:L:76:GLN:HB2	1:L:84:GLN:OE1	2.18	0.44
1:M:194:THR:HG22	1:M:195:SER:H	1.83	0.44
1:P:169:LEU:HD22	1:P:421:GLN:HB3	1.99	0.44
1:R:194:THR:HG22	1:R:195:SER:H	1.83	0.44
1:S:169:LEU:HD22	1:S:421:GLN:HB3	1.98	0.44
1:T:428:GLN:O	1:l:430:LYS:NZ	2.39	0.44
1:U:161:GLN:NE2	1:U:445:GLY:H	2.16	0.44
1:W:194:THR:HG22	1:W:195:SER:H	1.83	0.44
1:W:370:ASP:H	1:W:527:MET:HE1	1.83	0.44
1:X:194:THR:HG22	1:X:195:SER:H	1.83	0.44
1:Y:52:TYR:CD1	1:Y:474:GLU:HG2	2.53	0.44
1:Y:141:THR:HG22	1:Y:142:ASP:OD1	2.17	0.44
1:Z:52:TYR:CD1	1:Z:474:GLU:HG2	2.53	0.44
1:Z:310:ALA:HA	1:3:384:MET:O	2.17	0.44
1:a:169:LEU:HD22	1:a:421:GLN:HB3	1.98	0.44
1:a:384:MET:O	1:8:310:ALA:HA	2.17	0.44
1:d:272:ARG:NH2	1:l:301:ALA:O	2.37	0.44
1:g:161:GLN:NE2	1:g:445:GLY:H	2.16	0.44
1:g:178:GLY:HA3	1:g:183:ASN:HD22	1.81	0.44
1:g:310:ALA:HA	1:h:384:MET:O	2.17	0.44
1:h:168:LEU:N	1:h:446:HIS:HE1	2.10	0.44
1:i:101:GLN:OE1	1:i:176:LEU:HD13	2.17	0.44
1:l:75:GLY:CA	1:l:86:GLN:HG3	2.47	0.44
1:m:141:THR:HG22	1:m:142:ASP:OD1	2.17	0.44
1:m:385:SER:HB3	1:m:396:ILE:HD11	2.00	0.44
1:o:105:HIS:CD2	1:o:418:ILE:HD11	2.53	0.44
1:o:267:TRP:CE3	1:p:359:ILE:HD13	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:75:GLY:CA	1:p:86:GLN:HG3	2.47	0.44
1:p:106:PHE:O	1:p:414:TYR:OH	2.25	0.44
1:p:385:SER:HB3	1:p:396:ILE:HD11	2.00	0.44
1:p:501:LYS:HE2	1:q:209:GLY:O	2.17	0.44
1:q:75:GLY:CA	1:q:86:GLN:HG3	2.47	0.44
1:q:101:GLN:OE1	1:q:176:LEU:HD13	2.17	0.44
1:q:169:LEU:HD22	1:q:421:GLN:HB3	1.98	0.44
1:r:105:HIS:CD2	1:r:418:ILE:HD11	2.53	0.44
1:s:161:GLN:NE2	1:s:445:GLY:H	2.16	0.44
1:t:141:THR:HG22	1:t:142:ASP:OD1	2.17	0.44
1:t:384:MET:O	1:u:310:ALA:HA	2.17	0.44
1:u:52:TYR:CD1	1:u:474:GLU:HG2	2.53	0.44
1:u:272:ARG:NH2	1:v:301:ALA:O	2.37	0.44
1:v:81:THR:HG23	1:v:84:GLN:CG	2.45	0.44
1:w:105:HIS:CD2	1:w:418:ILE:HD11	2.53	0.44
1:w:194:THR:HG22	1:w:195:SER:H	1.83	0.44
1:x:52:TYR:CD1	1:x:474:GLU:HG2	2.53	0.44
1:x:267:TRP:CE3	1:y:359:ILE:HD13	2.53	0.44
1:y:75:GLY:CA	1:y:86:GLN:HG3	2.47	0.44
1:z:76:GLN:HB2	1:z:84:GLN:OE1	2.18	0.44
1:z:317:ASP:OD1	1:z:317:ASP:N	2.43	0.44
1:3:169:LEU:HD22	1:3:421:GLN:HB3	1.98	0.44
1:4:370:ASP:H	1:4:527:MET:HE1	1.83	0.44
1:5:101:GLN:OE1	1:5:176:LEU:HD13	2.17	0.44
1:5:310:ALA:HA	1:7:384:MET:O	2.17	0.44
1:6:194:THR:HG22	1:6:195:SER:H	1.83	0.44
1:6:370:ASP:H	1:6:527:MET:HE1	1.83	0.44
1:A:52:TYR:CD1	1:A:474:GLU:HG2	2.53	0.44
1:A:122:ARG:HB3	1:A:246:TRP:HA	1.99	0.44
1:A:194:THR:HG22	1:A:195:SER:H	1.83	0.44
1:A:310:ALA:HA	1:I:384:MET:O	2.17	0.44
1:B:52:TYR:CD1	1:B:474:GLU:HG2	2.53	0.44
1:C:285:ARG:NH2	1:b:335:ASP:O	2.45	0.44
1:C:310:ALA:HA	1:M:384:MET:O	2.17	0.44
1:D:335:ASP:O	1:P:285:ARG:NH2	2.44	0.44
1:E:384:MET:O	1:Q:310:ALA:HA	2.17	0.44
1:H:194:THR:HG22	1:H:195:SER:H	1.83	0.44
1:H:385:SER:HB3	1:H:396:ILE:HD11	2.00	0.44
1:J:52:TYR:CD1	1:J:474:GLU:HG2	2.53	0.44
1:L:317:ASP:OD1	1:L:317:ASP:N	2.43	0.44
1:M:105:HIS:CD2	1:M:418:ILE:HD11	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:101:GLN:OE1	1:N:176:LEU:HD13	2.17	0.44
1:O:75:GLY:CA	1:O:86:GLN:HG3	2.47	0.44
1:O:209:GLY:O	1:d:501:LYS:HE2	2.17	0.44
1:P:385:SER:HB3	1:P:396:ILE:HD11	2.00	0.44
1:R:101:GLN:OE1	1:R:176:LEU:HD13	2.17	0.44
1:R:122:ARG:HB3	1:R:246:TRP:HA	1.99	0.44
1:S:172:ASN:OD1	1:S:417:PRO:HD3	2.17	0.44
1:U:75:GLY:CA	1:U:86:GLN:HG3	2.47	0.44
1:W:282:CYS:HB2	1:Y:306:LEU:HD22	2.00	0.44
1:W:385:SER:HB3	1:W:396:ILE:HD11	2.00	0.44
1:X:105:HIS:CD2	1:X:418:ILE:HD11	2.53	0.44
1:X:385:SER:HB3	1:X:396:ILE:HD11	2.00	0.44
1:Y:161:GLN:NE2	1:Y:445:GLY:H	2.16	0.44
1:Y:501:LYS:HE2	1:4:209:GLY:O	2.17	0.44
1:d:285:ARG:NH2	1:l:335:ASP:O	2.45	0.44
1:e:105:HIS:CD2	1:e:418:ILE:HD11	2.53	0.44
1:f:359:ILE:HD13	1:g:267:TRP:CE3	2.53	0.44
1:i:122:ARG:HB3	1:i:246:TRP:HA	1.99	0.44
1:i:385:SER:HB3	1:i:396:ILE:HD11	2.00	0.44
1:o:122:ARG:HB3	1:o:246:TRP:HA	1.99	0.44
1:o:141:THR:HG22	1:o:142:ASP:OD1	2.17	0.44
1:o:194:THR:HG22	1:o:195:SER:H	1.83	0.44
1:o:385:SER:HB3	1:o:396:ILE:HD11	2.00	0.44
1:q:122:ARG:HB3	1:q:246:TRP:HA	1.99	0.44
1:r:172:ASN:OD1	1:r:417:PRO:HD3	2.17	0.44
1:r:348:LYS:HG2	1:r:512:GLN:HE21	1.81	0.44
1:r:384:MET:O	1:s:310:ALA:HA	2.17	0.44
1:t:35:THR:HB	1:t:233:GLU:HB3	1.99	0.44
1:t:105:HIS:CD2	1:t:418:ILE:HD11	2.53	0.44
1:u:149:ASN:ND2	1:2:150:ASP:OD1	2.29	0.44
1:u:384:MET:O	1:v:310:ALA:HA	2.17	0.44
1:w:76:GLN:HB2	1:w:84:GLN:OE1	2.18	0.44
1:w:169:LEU:HD22	1:w:421:GLN:HB3	1.98	0.44
1:w:384:MET:O	1:x:310:ALA:HA	2.17	0.44
1:w:385:SER:HB3	1:w:396:ILE:HD11	2.00	0.44
1:z:105:HIS:CD2	1:z:418:ILE:HD11	2.53	0.44
1:2:52:TYR:CD1	1:2:474:GLU:HG2	2.53	0.44
1:2:168:LEU:N	1:2:446:HIS:HE1	2.10	0.44
1:2:194:THR:HG22	1:2:195:SER:H	1.83	0.44
1:2:451:VAL:HG11	1:2:465:GLU:HG3	1.98	0.44
1:4:161:GLN:NE2	1:4:445:GLY:H	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:385:SER:HB3	1:5:396:ILE:HD11	2.00	0.44
1:6:105:HIS:CD2	1:6:418:ILE:HD11	2.53	0.44
1:6:282:CYS:HB2	1:7:306:LEU:HD22	2.00	0.44
1:6:385:SER:HB3	1:6:396:ILE:HD11	2.00	0.44
1:7:161:GLN:NE2	1:7:445:GLY:H	2.16	0.44
1:8:52:TYR:CD1	1:8:474:GLU:HG2	2.53	0.44
1:A:81:THR:HG23	1:A:84:GLN:CG	2.45	0.44
1:B:161:GLN:NE2	1:B:445:GLY:H	2.16	0.44
1:C:267:TRP:CE3	1:b:359:ILE:HD13	2.53	0.44
1:E:169:LEU:HD22	1:E:421:GLN:HB3	1.98	0.44
1:H:101:GLN:OE1	1:H:176:LEU:HD13	2.17	0.44
1:J:194:THR:HG22	1:J:195:SER:H	1.83	0.44
1:K:105:HIS:CD2	1:K:418:ILE:HD11	2.53	0.44
1:K:194:THR:HG22	1:K:195:SER:H	1.83	0.44
1:L:105:HIS:CD2	1:L:418:ILE:HD11	2.53	0.44
1:M:370:ASP:H	1:M:527:MET:HE1	1.83	0.44
1:N:52:TYR:CD1	1:N:474:GLU:HG2	2.53	0.44
1:N:122:ARG:HB3	1:N:246:TRP:HA	1.99	0.44
1:N:385:SER:HB3	1:N:396:ILE:HD11	2.00	0.44
1:O:301:ALA:O	1:n:272:ARG:NH2	2.37	0.44
1:Q:52:TYR:CD1	1:Q:474:GLU:HG2	2.53	0.44
1:Q:106:PHE:O	1:Q:414:TYR:OH	2.25	0.44
1:S:348:LYS:HG2	1:S:512:GLN:HE21	1.81	0.44
1:S:384:MET:O	1:U:310:ALA:HA	2.17	0.44
1:U:101:GLN:OE1	1:U:176:LEU:HD13	2.17	0.44
1:V:182:SER:OG	1:V:349:MET:SD	2.72	0.44
1:V:385:SER:HB3	1:V:396:ILE:HD11	2.00	0.44
1:W:105:HIS:CD2	1:W:418:ILE:HD11	2.53	0.44
1:X:52:TYR:CD1	1:X:474:GLU:HG2	2.53	0.44
1:X:359:ILE:HD13	1:e:267:TRP:CE3	2.53	0.44
1:a:35:THR:HB	1:a:233:GLU:HB3	1.99	0.44
1:a:161:GLN:NE2	1:a:445:GLY:H	2.16	0.44
1:c:105:HIS:CD2	1:c:418:ILE:HD11	2.53	0.44
1:c:267:TRP:CE3	1:o:359:ILE:HD13	2.53	0.44
1:f:75:GLY:CA	1:f:86:GLN:HG3	2.47	0.44
1:f:335:ASP:O	1:g:285:ARG:NH2	2.45	0.44
1:g:52:TYR:CD1	1:g:474:GLU:HG2	2.53	0.44
1:g:141:THR:HG22	1:g:142:ASP:OD1	2.17	0.44
1:i:52:TYR:CD1	1:i:474:GLU:HG2	2.53	0.44
1:i:105:HIS:CD2	1:i:418:ILE:HD11	2.53	0.44
1:i:428:GLN:HB3	1:i:431:ILE:HG23	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:385:SER:HB3	1:j:396:ILE:HD11	2.00	0.44
1:l:209:GLY:O	1:n:501:LYS:HE2	2.17	0.44
1:l:370:ASP:H	1:l:527:MET:HE1	1.83	0.44
1:m:35:THR:HB	1:m:233:GLU:HB3	1.99	0.44
1:o:101:GLN:OE1	1:o:176:LEU:HD13	2.17	0.44
1:p:52:TYR:CD1	1:p:474:GLU:HG2	2.53	0.44
1:q:105:HIS:CD2	1:q:418:ILE:HD11	2.53	0.44
1:q:380:ARG:N	1:r:313:ALA:O	2.39	0.44
1:r:169:LEU:HD22	1:r:421:GLN:HB3	1.98	0.44
1:s:35:THR:HB	1:s:233:GLU:HB3	1.99	0.44
1:s:75:GLY:CA	1:s:86:GLN:HG3	2.47	0.44
1:s:194:THR:HG22	1:s:195:SER:H	1.83	0.44
1:u:76:GLN:HB2	1:u:84:GLN:OE1	2.18	0.44
1:u:141:THR:HG22	1:u:142:ASP:OD1	2.17	0.44
1:v:52:TYR:CD1	1:v:474:GLU:HG2	2.53	0.44
1:v:122:ARG:HB3	1:v:246:TRP:HA	1.99	0.44
1:y:172:ASN:OD1	1:y:417:PRO:HD3	2.17	0.44
1:z:385:SER:HB3	1:z:396:ILE:HD11	2.00	0.44
1:1:161:GLN:NE2	1:1:445:GLY:H	2.16	0.44
1:3:35:THR:HB	1:3:233:GLU:HB3	1.99	0.44
1:3:161:GLN:NE2	1:3:445:GLY:H	2.16	0.44
1:5:194:THR:HG22	1:5:195:SER:H	1.83	0.44
1:8:141:THR:HG22	1:8:142:ASP:OD1	2.17	0.44
1:A:169:LEU:HD22	1:A:421:GLN:HB3	1.98	0.43
1:A:370:ASP:H	1:A:527:MET:HE1	1.83	0.43
1:B:306:LEU:HD22	1:L:282:CYS:HB2	2.00	0.43
1:B:385:SER:HB3	1:B:396:ILE:HD11	2.00	0.43
1:B:428:GLN:O	1:L:430:LYS:NZ	2.39	0.43
1:C:52:TYR:CD1	1:C:474:GLU:HG2	2.53	0.43
1:C:198:ASN:ND2	1:C:201:GLY:O	2.45	0.43
1:C:370:ASP:H	1:C:527:MET:HE1	1.83	0.43
1:D:301:ALA:O	1:P:272:ARG:NH2	2.37	0.43
1:F:172:ASN:OD1	1:F:417:PRO:HD3	2.17	0.43
1:F:306:LEU:HD22	1:Q:282:CYS:HB2	2.00	0.43
1:G:403:PRO:HD2	1:I:325:MET:SD	2.58	0.43
1:I:76:GLN:HB2	1:I:84:GLN:OE1	2.18	0.43
1:J:141:THR:HG22	1:J:142:ASP:OD1	2.17	0.43
1:L:141:THR:HG22	1:L:142:ASP:OD1	2.17	0.43
1:L:190:TYR:CD1	1:L:448:PHE:HE1	2.36	0.43
1:L:385:SER:HB3	1:L:396:ILE:HD11	2.00	0.43
1:N:105:HIS:CD2	1:N:418:ILE:HD11	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:428:GLN:HB3	1:N:431:ILE:HG23	1.98	0.43
1:O:306:LEU:HD22	1:n:282:CYS:HB2	2.00	0.43
1:O:335:ASP:O	1:n:285:ARG:NH2	2.45	0.43
1:O:370:ASP:H	1:O:527:MET:HE1	1.83	0.43
1:Q:194:THR:HG22	1:Q:195:SER:H	1.83	0.43
1:R:76:GLN:HB2	1:R:84:GLN:OE1	2.18	0.43
1:S:141:THR:HG22	1:S:142:ASP:OD1	2.17	0.43
1:T:76:GLN:HB2	1:T:84:GLN:OE1	2.18	0.43
1:T:209:GLY:O	1:i:501:LYS:HE2	2.17	0.43
1:U:194:THR:HG22	1:U:195:SER:H	1.83	0.43
1:U:212:THR:O	1:U:215:SER:OG	2.35	0.43
1:U:385:SER:HB3	1:U:396:ILE:HD11	2.00	0.43
1:V:52:TYR:CD1	1:V:474:GLU:HG2	2.53	0.43
1:W:380:ARG:N	1:Y:313:ALA:O	2.39	0.43
1:X:141:THR:HG22	1:X:142:ASP:OD1	2.17	0.43
1:X:182:SER:OG	1:X:349:MET:SD	2.72	0.43
1:Y:35:THR:HB	1:Y:233:GLU:HB3	1.99	0.43
1:Z:81:THR:HG23	1:Z:84:GLN:CG	2.45	0.43
1:Z:141:THR:HG22	1:Z:142:ASP:OD1	2.17	0.43
1:a:52:TYR:CD1	1:a:474:GLU:HG2	2.53	0.43
1:a:101:GLN:OE1	1:a:176:LEU:HD13	2.17	0.43
1:b:75:GLY:CA	1:b:86:GLN:HG3	2.47	0.43
1:d:194:THR:HG22	1:d:195:SER:H	1.83	0.43
1:d:282:CYS:HB2	1:l:306:LEU:HD22	2.00	0.43
1:g:122:ARG:HB3	1:g:246:TRP:HA	1.99	0.43
1:h:105:HIS:CD2	1:h:418:ILE:HD11	2.53	0.43
1:h:370:ASP:H	1:h:527:MET:HE1	1.83	0.43
1:j:267:TRP:CE3	1:k:359:ILE:HD13	2.53	0.43
1:l:385:SER:HB3	1:l:396:ILE:HD11	2.00	0.43
1:m:370:ASP:H	1:m:527:MET:HE1	1.83	0.43
1:n:52:TYR:CD1	1:n:474:GLU:HG2	2.53	0.43
1:n:194:THR:HG22	1:n:195:SER:H	1.83	0.43
1:o:52:TYR:CD1	1:o:474:GLU:HG2	2.53	0.43
1:q:76:GLN:HB2	1:q:84:GLN:OE1	2.18	0.43
1:r:52:TYR:CD1	1:r:474:GLU:HG2	2.53	0.43
1:r:141:THR:HG22	1:r:142:ASP:OD1	2.17	0.43
1:s:52:TYR:CD1	1:s:474:GLU:HG2	2.53	0.43
1:s:101:GLN:OE1	1:s:176:LEU:HD13	2.17	0.43
1:v:194:THR:HG22	1:v:195:SER:H	1.83	0.43
1:x:105:HIS:CD2	1:x:418:ILE:HD11	2.53	0.43
1:x:194:THR:HG22	1:x:195:SER:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:282:CYS:HB2	1:y:306:LEU:HD22	2.00	0.43
1:2:141:THR:HG22	1:2:142:ASP:OD1	2.17	0.43
1:3:370:ASP:H	1:3:527:MET:HE1	1.83	0.43
1:4:52:TYR:CD1	1:4:474:GLU:HG2	2.53	0.43
1:4:105:HIS:CD2	1:4:418:ILE:HD11	2.53	0.43
1:4:194:THR:HG22	1:4:195:SER:H	1.83	0.43
1:C:141:THR:HG22	1:C:142:ASP:OD1	2.17	0.43
1:D:161:GLN:NE2	1:D:445:GLY:H	2.16	0.43
1:D:359:ILE:HD13	1:P:267:TRP:CE3	2.53	0.43
1:D:370:ASP:H	1:D:527:MET:HE1	1.83	0.43
1:E:190:TYR:CD1	1:E:448:PHE:HE1	2.37	0.43
1:F:385:SER:HB3	1:F:396:ILE:HD11	2.00	0.43
1:J:76:GLN:HB2	1:J:84:GLN:OE1	2.18	0.43
1:J:267:TRP:CE3	1:L:359:ILE:HD13	2.53	0.43
1:K:52:TYR:CD1	1:K:474:GLU:HG2	2.53	0.43
1:K:101:GLN:OE1	1:K:176:LEU:HD13	2.17	0.43
1:K:190:TYR:CD1	1:K:448:PHE:HE1	2.37	0.43
1:N:370:ASP:H	1:N:527:MET:HE1	1.83	0.43
1:O:359:ILE:HD13	1:n:267:TRP:CE3	2.54	0.43
1:Q:105:HIS:CD2	1:Q:418:ILE:HD11	2.53	0.43
1:R:105:HIS:CD2	1:R:418:ILE:HD11	2.53	0.43
1:R:385:SER:HB3	1:R:396:ILE:HD11	2.00	0.43
1:S:52:TYR:CD1	1:S:474:GLU:HG2	2.53	0.43
1:S:403:PRO:HD2	1:U:325:MET:SD	2.59	0.43
1:T:35:THR:HB	1:T:233:GLU:HB3	1.99	0.43
1:T:190:TYR:CD1	1:T:448:PHE:HE1	2.37	0.43
1:T:267:TRP:CE3	1:d:359:ILE:HD13	2.53	0.43
1:T:370:ASP:H	1:T:527:MET:HE1	1.83	0.43
1:U:52:TYR:CD1	1:U:474:GLU:HG2	2.53	0.43
1:X:101:GLN:OE1	1:X:176:LEU:HD13	2.17	0.43
1:X:190:TYR:CD1	1:X:448:PHE:HE1	2.37	0.43
1:Y:190:TYR:CD1	1:Y:448:PHE:HE1	2.36	0.43
1:a:267:TRP:CE3	1:8:359:ILE:HD13	2.54	0.43
1:a:370:ASP:H	1:a:527:MET:HE1	1.83	0.43
1:d:52:TYR:CD1	1:d:474:GLU:HG2	2.53	0.43
1:d:76:GLN:HB2	1:d:84:GLN:OE1	2.18	0.43
1:f:428:GLN:O	1:g:430:LYS:NZ	2.39	0.43
1:g:198:ASN:ND2	1:g:201:GLY:O	2.45	0.43
1:g:370:ASP:H	1:g:527:MET:HE1	1.83	0.43
1:i:370:ASP:H	1:i:527:MET:HE1	1.83	0.43
1:j:285:ARG:NH2	1:k:335:ASP:O	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:161:GLN:NE2	1:k:445:GLY:H	2.16	0.43
1:m:76:GLN:HB2	1:m:84:GLN:OE1	2.18	0.43
1:m:172:ASN:OD1	1:m:417:PRO:HD3	2.17	0.43
1:m:190:TYR:CD1	1:m:448:PHE:HE1	2.37	0.43
1:q:325:MET:SD	1:s:403:PRO:HD2	2.59	0.43
1:s:385:SER:HB3	1:s:396:ILE:HD11	2.00	0.43
1:t:403:PRO:HD2	1:u:325:MET:SD	2.59	0.43
1:u:81:THR:HG23	1:u:84:GLN:CG	2.45	0.43
1:v:169:LEU:HD22	1:v:421:GLN:HB3	1.98	0.43
1:w:190:TYR:CD1	1:w:448:PHE:HE1	2.37	0.43
1:y:385:SER:HB3	1:y:396:ILE:HD11	2.00	0.43
1:z:141:THR:HG22	1:z:142:ASP:OD1	2.17	0.43
1:z:190:TYR:CD1	1:z:448:PHE:HE1	2.37	0.43
1:3:52:TYR:CD1	1:3:474:GLU:HG2	2.53	0.43
1:3:101:GLN:OE1	1:3:176:LEU:HD13	2.17	0.43
1:3:141:THR:HG22	1:3:142:ASP:OD1	2.17	0.43
1:4:101:GLN:OE1	1:4:176:LEU:HD13	2.17	0.43
1:4:190:TYR:CD1	1:4:448:PHE:HE1	2.37	0.43
1:6:403:PRO:HD2	1:7:325:MET:SD	2.59	0.43
1:7:35:THR:HB	1:7:233:GLU:HB3	1.99	0.43
1:7:81:THR:HG23	1:7:84:GLN:CG	2.45	0.43
1:7:190:TYR:CD1	1:7:448:PHE:HE1	2.36	0.43
1:A:105:HIS:CD2	1:A:418:ILE:HD11	2.53	0.43
1:A:403:PRO:HD2	1:G:325:MET:SD	2.59	0.43
1:B:282:CYS:HB2	1:J:306:LEU:HD22	2.00	0.43
1:C:122:ARG:HB3	1:C:246:TRP:HA	1.99	0.43
1:C:282:CYS:HB2	1:b:306:LEU:HD22	2.01	0.43
1:H:282:CYS:HB2	1:W:306:LEU:HD22	2.00	0.43
1:I:141:THR:HG22	1:I:142:ASP:OD1	2.17	0.43
1:I:168:LEU:N	1:I:446:HIS:HE1	2.10	0.43
1:I:194:THR:HG22	1:I:195:SER:H	1.83	0.43
1:K:306:LEU:HD22	1:8:282:CYS:HB2	2.01	0.43
1:M:325:MET:SD	1:b:403:PRO:HD2	2.58	0.43
1:M:359:ILE:HD13	1:b:267:TRP:CE3	2.53	0.43
1:N:190:TYR:CD1	1:N:448:PHE:HE1	2.36	0.43
1:N:501:LYS:HE2	1:m:209:GLY:O	2.17	0.43
1:O:76:GLN:HB2	1:O:84:GLN:OE1	2.18	0.43
1:O:172:ASN:OD1	1:O:417:PRO:HD3	2.17	0.43
1:O:385:SER:HB3	1:O:396:ILE:HD11	2.00	0.43
1:P:182:SER:OG	1:P:349:MET:SD	2.72	0.43
1:P:194:THR:HG22	1:P:195:SER:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:168:LEU:N	1:Q:446:HIS:HE1	2.10	0.43
1:R:325:MET:SD	1:U:403:PRO:HD2	2.59	0.43
1:T:172:ASN:OD1	1:T:417:PRO:HD3	2.17	0.43
1:T:310:ALA:HA	1:l:384:MET:O	2.17	0.43
1:V:106:PHE:O	1:V:414:TYR:OH	2.25	0.43
1:W:403:PRO:HD2	1:Y:325:MET:SD	2.59	0.43
1:X:161:GLN:NE2	1:X:445:GLY:H	2.16	0.43
1:Y:81:THR:HG23	1:Y:84:GLN:CG	2.45	0.43
1:Z:282:CYS:HB2	1:4:306:LEU:HD22	2.01	0.43
1:Z:359:ILE:HD13	1:3:267:TRP:CE3	2.54	0.43
1:c:282:CYS:HB2	1:o:306:LEU:HD22	2.00	0.43
1:d:75:GLY:CA	1:d:86:GLN:HG3	2.47	0.43
1:d:267:TRP:CE3	1:l:359:ILE:HD13	2.54	0.43
1:e:76:GLN:HB2	1:e:84:GLN:OE1	2.18	0.43
1:f:76:GLN:HB2	1:f:84:GLN:OE1	2.18	0.43
1:f:168:LEU:N	1:f:446:HIS:HE1	2.10	0.43
1:f:267:TRP:CE3	1:h:359:ILE:HD13	2.53	0.43
1:f:306:LEU:HD22	1:g:282:CYS:HB2	2.01	0.43
1:f:403:PRO:HD2	1:h:325:MET:SD	2.58	0.43
1:g:359:ILE:HD13	1:h:267:TRP:CE3	2.53	0.43
1:i:190:TYR:CD1	1:i:448:PHE:HE1	2.36	0.43
1:i:306:LEU:HD22	1:k:282:CYS:HB2	2.00	0.43
1:j:76:GLN:HB2	1:j:84:GLN:OE1	2.18	0.43
1:j:194:THR:HG22	1:j:195:SER:H	1.83	0.43
1:k:370:ASP:H	1:k:527:MET:HE1	1.83	0.43
1:l:172:ASN:OD1	1:l:417:PRO:HD3	2.17	0.43
1:m:267:TRP:CE3	1:n:359:ILE:HD13	2.53	0.43
1:n:76:GLN:HB2	1:n:84:GLN:OE1	2.18	0.43
1:n:190:TYR:CD1	1:n:448:PHE:HE1	2.36	0.43
1:o:190:TYR:CD1	1:o:448:PHE:HE1	2.37	0.43
1:q:385:SER:HB3	1:q:396:ILE:HD11	2.00	0.43
1:t:282:CYS:HB2	1:u:306:LEU:HD22	2.01	0.43
1:t:325:MET:SD	1:v:403:PRO:HD2	2.59	0.43
1:u:194:THR:HG22	1:u:195:SER:H	1.83	0.43
1:v:370:ASP:H	1:v:527:MET:HE1	1.83	0.43
1:x:106:PHE:O	1:x:414:TYR:OH	2.25	0.43
1:x:385:SER:HB3	1:x:396:ILE:HD11	2.00	0.43
1:y:35:THR:HB	1:y:233:GLU:HB3	1.99	0.43
1:z:267:TRP:CE3	1:1:359:ILE:HD13	2.53	0.43
1:1:267:TRP:CE3	1:2:359:ILE:HD13	2.53	0.43
1:1:385:SER:HB3	1:1:396:ILE:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:75:GLY:CA	1:2:86:GLN:HG3	2.47	0.43
1:2:76:GLN:HB2	1:2:84:GLN:OE1	2.18	0.43
1:7:122:ARG:HB3	1:7:246:TRP:HA	1.99	0.43
1:C:359:ILE:HD13	1:M:267:TRP:CE3	2.53	0.43
1:D:282:CYS:HB2	1:N:306:LEU:HD22	2.00	0.43
1:D:385:SER:HB3	1:D:396:ILE:HD11	2.00	0.43
1:F:35:THR:HB	1:F:233:GLU:HB3	1.99	0.43
1:F:52:TYR:CD1	1:F:474:GLU:HG2	2.53	0.43
1:F:325:MET:SD	1:Q:403:PRO:HD2	2.59	0.43
1:G:190:TYR:CD1	1:G:448:PHE:HE1	2.37	0.43
1:G:267:TRP:CE3	1:I:359:ILE:HD13	2.53	0.43
1:G:282:CYS:HB2	1:I:306:LEU:HD22	2.01	0.43
1:I:122:ARG:HB3	1:I:246:TRP:HA	1.99	0.43
1:I:149:ASN:ND2	1:J:150:ASP:OD1	2.29	0.43
1:J:168:LEU:N	1:J:446:HIS:HE1	2.10	0.43
1:M:190:TYR:CD1	1:M:448:PHE:HE1	2.37	0.43
1:O:106:PHE:O	1:O:414:TYR:OH	2.25	0.43
1:O:384:MET:O	1:m:310:ALA:HA	2.17	0.43
1:P:76:GLN:HB2	1:P:84:GLN:OE1	2.18	0.43
1:P:105:HIS:CD2	1:P:418:ILE:HD11	2.53	0.43
1:Q:101:GLN:OE1	1:Q:176:LEU:HD13	2.17	0.43
1:Q:385:SER:HB3	1:Q:396:ILE:HD11	2.00	0.43
1:T:403:PRO:HD2	1:d:325:MET:SD	2.58	0.43
1:X:306:LEU:HD22	1:e:282:CYS:HB2	2.00	0.43
1:X:325:MET:SD	1:e:403:PRO:HD2	2.58	0.43
1:Y:122:ARG:HB3	1:Y:246:TRP:HA	1.99	0.43
1:Y:370:ASP:H	1:Y:527:MET:HE1	1.83	0.43
1:a:141:THR:HG22	1:a:142:ASP:OD1	2.17	0.43
1:a:272:ARG:NH2	1:8:301:ALA:O	2.37	0.43
1:b:76:GLN:HB2	1:b:84:GLN:OE1	2.18	0.43
1:c:76:GLN:HB2	1:c:84:GLN:OE1	2.18	0.43
1:c:403:PRO:HD2	1:o:325:MET:SD	2.58	0.43
1:c:428:GLN:O	1:p:430:LYS:NZ	2.39	0.43
1:d:190:TYR:CD1	1:d:448:PHE:HE1	2.36	0.43
1:g:306:LEU:HD22	1:h:282:CYS:HB2	2.00	0.43
1:g:385:SER:HB3	1:g:396:ILE:HD11	2.00	0.43
1:h:190:TYR:CD1	1:h:448:PHE:HE1	2.37	0.43
1:h:385:SER:HB3	1:h:396:ILE:HD11	2.00	0.43
1:j:105:HIS:CD2	1:j:418:ILE:HD11	2.53	0.43
1:k:385:SER:HB3	1:k:396:ILE:HD11	2.00	0.43
1:l:76:GLN:HB2	1:l:84:GLN:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:75:GLY:CA	1:n:86:GLN:HG3	2.47	0.43
1:n:454:LYS:NZ	1:r:149:ASN:OD1	2.44	0.43
1:o:161:GLN:NE2	1:o:445:GLY:H	2.16	0.43
1:o:182:SER:OG	1:o:349:MET:SD	2.72	0.43
1:r:403:PRO:HD2	1:s:325:MET:SD	2.59	0.43
1:v:105:HIS:CD2	1:v:418:ILE:HD11	2.53	0.43
1:w:35:THR:HG1	1:w:132:ASN:H	1.59	0.43
1:x:76:GLN:HB2	1:x:84:GLN:OE1	2.18	0.43
1:x:403:PRO:HD2	1:y:325:MET:SD	2.59	0.43
1:y:194:THR:HG22	1:y:195:SER:H	1.83	0.43
1:z:282:CYS:HB2	1:1:306:LEU:HD22	2.01	0.43
1:z:359:ILE:HD13	1:2:267:TRP:CE3	2.53	0.43
1:z:403:PRO:HD2	1:1:325:MET:SD	2.59	0.43
1:1:35:THR:HB	1:1:233:GLU:HB3	1.99	0.43
1:6:52:TYR:CD1	1:6:474:GLU:HG2	2.53	0.43
1:6:190:TYR:CD1	1:6:448:PHE:HE1	2.36	0.43
1:8:81:THR:HG23	1:8:84:GLN:CG	2.45	0.43
1:B:35:THR:HB	1:B:233:GLU:HB3	1.99	0.43
1:C:385:SER:HB3	1:C:396:ILE:HD11	2.00	0.43
1:E:75:GLY:CA	1:E:86:GLN:HG3	2.47	0.43
1:E:403:PRO:HD2	1:Q:325:MET:SD	2.58	0.43
1:F:194:THR:HG22	1:F:195:SER:H	1.83	0.43
1:H:190:TYR:CD1	1:H:448:PHE:HE1	2.36	0.43
1:H:267:TRP:CE3	1:W:359:ILE:HD13	2.53	0.43
1:H:370:ASP:H	1:H:527:MET:HE1	1.83	0.43
1:I:81:THR:HG23	1:I:84:GLN:CG	2.45	0.43
1:J:75:GLY:CA	1:J:86:GLN:HG3	2.47	0.43
1:M:385:SER:HB3	1:M:396:ILE:HD11	2.00	0.43
1:Q:76:GLN:HB2	1:Q:84:GLN:OE1	2.18	0.43
1:Q:190:TYR:CD1	1:Q:448:PHE:HE1	2.37	0.43
1:S:76:GLN:HB2	1:S:84:GLN:OE1	2.18	0.43
1:S:149:ASN:OD1	1:d:454:LYS:NZ	2.44	0.43
1:U:105:HIS:CD2	1:U:418:ILE:HD11	2.53	0.43
1:V:194:THR:HG22	1:V:195:SER:H	1.83	0.43
1:V:325:MET:SD	1:X:403:PRO:HD2	2.59	0.43
1:W:52:TYR:CD1	1:W:474:GLU:HG2	2.53	0.43
1:W:190:TYR:CD1	1:W:448:PHE:HE1	2.36	0.43
1:W:267:TRP:CE3	1:Y:359:ILE:HD13	2.53	0.43
1:X:76:GLN:HB2	1:X:84:GLN:OE1	2.18	0.43
1:Z:76:GLN:HB2	1:Z:84:GLN:OE1	2.18	0.43
1:Z:194:THR:HG22	1:Z:195:SER:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:105:HIS:CD2	1:b:418:ILE:HD11	2.53	0.43
1:d:161:GLN:NE2	1:d:445:GLY:H	2.16	0.43
1:f:52:TYR:CD1	1:f:474:GLU:HG2	2.53	0.43
1:h:52:TYR:CD1	1:h:474:GLU:HG2	2.53	0.43
1:j:52:TYR:CD1	1:j:474:GLU:HG2	2.53	0.43
1:l:190:TYR:CD1	1:l:448:PHE:HE1	2.37	0.43
1:m:403:PRO:HD2	1:n:325:MET:SD	2.58	0.43
1:r:76:GLN:HB2	1:r:84:GLN:OE1	2.18	0.43
1:t:76:GLN:HB2	1:t:84:GLN:OE1	2.18	0.43
1:t:161:GLN:NE2	1:t:445:GLY:H	2.16	0.43
1:t:190:TYR:CD1	1:t:448:PHE:HE1	2.37	0.43
1:t:359:ILE:HD13	1:v:267:TRP:CE3	2.53	0.43
1:w:75:GLY:CA	1:w:86:GLN:HG3	2.47	0.43
1:x:101:GLN:OE1	1:x:176:LEU:HD13	2.17	0.43
1:y:52:TYR:CD1	1:y:474:GLU:HG2	2.53	0.43
1:5:285:ARG:NH2	1:6:335:ASP:O	2.45	0.43
1:6:380:ARG:N	1:7:313:ALA:O	2.39	0.43
1:7:370:ASP:H	1:7:527:MET:HE1	1.83	0.43
1:8:76:GLN:HB2	1:8:84:GLN:OE1	2.18	0.43
1:B:359:ILE:HD13	1:L:267:TRP:CE3	2.53	0.43
1:B:370:ASP:H	1:B:527:MET:HE1	1.83	0.43
1:G:76:GLN:HB2	1:G:84:GLN:OE1	2.18	0.43
1:G:161:GLN:NE2	1:G:445:GLY:H	2.16	0.43
1:G:495:TYR:HB2	1:H:489:MET:HB2	2.01	0.43
1:H:76:GLN:HB2	1:H:84:GLN:OE1	2.18	0.43
1:H:301:ALA:O	1:Y:272:ARG:NH2	2.37	0.43
1:K:267:TRP:CE3	1:a:359:ILE:HD13	2.53	0.43
1:M:52:TYR:CD1	1:M:474:GLU:HG2	2.53	0.43
1:M:122:ARG:HB3	1:M:246:TRP:HA	1.99	0.43
1:O:190:TYR:CD1	1:O:448:PHE:HE1	2.37	0.43
1:O:403:PRO:HD2	1:m:325:MET:SD	2.59	0.43
1:P:52:TYR:CD1	1:P:474:GLU:HG2	2.53	0.43
1:S:190:TYR:CD1	1:S:448:PHE:HE1	2.37	0.43
1:U:76:GLN:HB2	1:U:84:GLN:OE1	2.18	0.43
1:U:370:ASP:H	1:U:527:MET:HE1	1.83	0.43
1:V:430:LYS:NZ	1:e:428:GLN:O	2.39	0.43
1:Y:76:GLN:HB2	1:Y:84:GLN:OE1	2.18	0.43
1:Z:301:ALA:O	1:3:272:ARG:NH2	2.37	0.43
1:b:52:TYR:CD1	1:b:474:GLU:HG2	2.53	0.43
1:b:168:LEU:N	1:b:446:HIS:HE1	2.10	0.43
1:d:370:ASP:H	1:d:527:MET:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:194:THR:HG22	1:e:195:SER:H	1.83	0.43
1:f:81:THR:HG23	1:f:84:GLN:CG	2.45	0.43
1:f:105:HIS:CD2	1:f:418:ILE:HD11	2.53	0.43
1:h:122:ARG:HB3	1:h:246:TRP:HA	1.99	0.43
1:j:161:GLN:NE2	1:j:445:GLY:H	2.16	0.43
1:n:161:GLN:NE2	1:n:445:GLY:H	2.16	0.43
1:o:76:GLN:HB2	1:o:84:GLN:OE1	2.18	0.43
1:o:403:PRO:HD2	1:p:325:MET:SD	2.59	0.43
1:p:76:GLN:HB2	1:p:84:GLN:OE1	2.18	0.43
1:p:190:TYR:CD1	1:p:448:PHE:HE1	2.37	0.43
1:q:306:LEU:HD22	1:s:282:CYS:HB2	2.01	0.43
1:s:105:HIS:CD2	1:s:418:ILE:HD11	2.53	0.43
1:s:370:ASP:H	1:s:527:MET:HE1	1.83	0.43
1:u:122:ARG:HB3	1:u:246:TRP:HA	1.99	0.43
1:w:52:TYR:CD1	1:w:474:GLU:HG2	2.53	0.43
1:w:403:PRO:HD2	1:x:325:MET:SD	2.58	0.43
1:x:190:TYR:CD1	1:x:448:PHE:HE1	2.37	0.43
1:z:194:THR:HG22	1:z:195:SER:H	1.83	0.43
1:1:182:SER:OG	1:1:349:MET:SD	2.72	0.43
1:1:190:TYR:CD1	1:1:448:PHE:HE1	2.36	0.43
1:1:282:CYS:HB2	1:2:306:LEU:HD22	2.01	0.43
1:1:370:ASP:H	1:1:527:MET:HE1	1.83	0.43
1:3:359:ILE:HD13	1:4:267:TRP:CE3	2.53	0.43
1:5:190:TYR:CD1	1:5:448:PHE:HE1	2.37	0.43
1:5:370:ASP:H	1:5:527:MET:HE1	1.83	0.43
1:6:267:TRP:CE3	1:7:359:ILE:HD13	2.53	0.43
1:6:317:ASP:OD1	1:6:317:ASP:N	2.43	0.43
1:8:194:THR:HG22	1:8:195:SER:H	1.83	0.43
1:A:267:TRP:CE3	1:G:359:ILE:HD13	2.53	0.43
1:A:385:SER:HB3	1:A:396:ILE:HD11	2.00	0.43
1:B:190:TYR:CD1	1:B:448:PHE:HE1	2.37	0.43
1:C:306:LEU:HD22	1:M:282:CYS:HB2	2.00	0.43
1:D:190:TYR:CD1	1:D:448:PHE:HE1	2.36	0.43
1:E:52:TYR:CD1	1:E:474:GLU:HG2	2.53	0.43
1:E:310:ALA:HA	1:F:384:MET:O	2.17	0.43
1:H:285:ARG:NH2	1:W:335:ASP:O	2.44	0.43
1:K:501:LYS:HE2	1:L:209:GLY:O	2.17	0.43
1:L:194:THR:HG22	1:L:195:SER:H	1.83	0.43
1:M:75:GLY:CA	1:M:86:GLN:HG3	2.47	0.43
1:P:161:GLN:NE2	1:P:445:GLY:H	2.16	0.43
1:R:306:LEU:HD22	1:U:282:CYS:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:267:TRP:CE3	1:U:359:ILE:HD13	2.53	0.43
1:V:190:TYR:CD1	1:V:448:PHE:HE1	2.37	0.43
1:V:282:CYS:HB2	1:e:306:LEU:HD22	2.01	0.43
1:W:161:GLN:NE2	1:W:445:GLY:H	2.16	0.43
1:Y:172:ASN:OD1	1:Y:417:PRO:HD3	2.17	0.43
1:Z:122:ARG:HB3	1:Z:246:TRP:HA	1.99	0.43
1:Z:403:PRO:HD2	1:4:325:MET:SD	2.59	0.43
1:a:190:TYR:CD1	1:a:448:PHE:HE1	2.36	0.43
1:c:194:THR:HG22	1:c:195:SER:H	1.83	0.43
1:c:306:LEU:HD22	1:p:282:CYS:HB2	2.01	0.43
1:c:370:ASP:H	1:c:527:MET:HE1	1.83	0.43
1:h:75:GLY:CA	1:h:86:GLN:HG3	2.47	0.43
1:i:35:THR:HB	1:i:233:GLU:HB3	1.99	0.43
1:i:359:ILE:HD13	1:k:267:TRP:CE3	2.53	0.43
1:l:35:THR:HB	1:l:233:GLU:HB3	1.99	0.43
1:n:370:ASP:H	1:n:527:MET:HE1	1.83	0.43
1:p:194:THR:HG22	1:p:195:SER:H	1.83	0.43
1:p:209:GLY:O	1:6:501:LYS:HE2	2.17	0.43
1:r:190:TYR:CD1	1:r:448:PHE:HE1	2.37	0.43
1:r:267:TRP:CE3	1:s:359:ILE:HD13	2.53	0.43
1:t:182:SER:OG	1:t:349:MET:SD	2.72	0.43
1:t:267:TRP:CE3	1:u:359:ILE:HD13	2.53	0.43
1:u:168:LEU:N	1:u:446:HIS:HE1	2.10	0.43
1:v:385:SER:HB3	1:v:396:ILE:HD11	2.00	0.43
1:x:168:LEU:N	1:x:446:HIS:HE1	2.10	0.43
1:5:76:GLN:HB2	1:5:84:GLN:OE1	2.18	0.43
1:5:454:LYS:NZ	1:8:149:ASN:OD1	2.45	0.43
1:7:76:GLN:HB2	1:7:84:GLN:OE1	2.18	0.43
1:8:122:ARG:HB3	1:8:246:TRP:HA	1.99	0.43
1:B:331:GLU:H	1:B:331:GLU:CD	2.27	0.43
1:C:76:GLN:HB2	1:C:84:GLN:OE1	2.18	0.43
1:C:190:TYR:CD1	1:C:448:PHE:HE1	2.37	0.43
1:D:76:GLN:HB2	1:D:84:GLN:OE1	2.18	0.43
1:D:267:TRP:CE3	1:N:359:ILE:HD13	2.53	0.43
1:D:495:TYR:HB2	1:M:489:MET:HB2	2.01	0.43
1:E:35:THR:HB	1:E:233:GLU:HB3	1.99	0.43
1:E:331:GLU:H	1:E:331:GLU:CD	2.27	0.43
1:I:156:GLN:HA	1:I:226:GLN:O	2.19	0.43
1:K:325:MET:SD	1:8:403:PRO:HD2	2.59	0.43
1:M:161:GLN:NE2	1:M:445:GLY:H	2.16	0.43
1:N:35:THR:HB	1:N:233:GLU:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:76:GLN:HB2	1:N:84:GLN:OE1	2.18	0.43
1:N:161:GLN:NE2	1:N:445:GLY:H	2.16	0.43
1:N:331:GLU:H	1:N:331:GLU:CD	2.27	0.43
1:P:190:TYR:CD1	1:P:448:PHE:HE1	2.36	0.43
1:R:359:ILE:HD13	1:U:267:TRP:CE3	2.53	0.43
1:R:523:THR:HA	1:R:527:MET:SD	2.59	0.43
1:T:325:MET:SD	1:I:403:PRO:HD2	2.59	0.43
1:V:76:GLN:HB2	1:V:84:GLN:OE1	2.18	0.43
1:c:161:GLN:NE2	1:c:445:GLY:H	2.16	0.43
1:c:190:TYR:CD1	1:c:448:PHE:HE1	2.36	0.43
1:e:52:TYR:CD1	1:e:474:GLU:HG2	2.53	0.43
1:h:489:MET:HB2	1:k:495:TYR:HB2	2.01	0.43
1:i:76:GLN:HB2	1:i:84:GLN:OE1	2.18	0.43
1:i:161:GLN:NE2	1:i:445:GLY:H	2.16	0.43
1:i:282:CYS:HB2	1:j:306:LEU:HD22	2.00	0.43
1:k:76:GLN:HB2	1:k:84:GLN:OE1	2.18	0.43
1:k:190:TYR:CD1	1:k:448:PHE:HE1	2.36	0.43
1:l:194:THR:HG22	1:l:195:SER:H	1.83	0.43
1:m:282:CYS:HB2	1:n:306:LEU:HD22	2.01	0.43
1:q:359:ILE:HD13	1:s:267:TRP:CE3	2.53	0.43
1:q:403:PRO:HD2	1:r:325:MET:SD	2.59	0.43
1:u:156:GLN:HA	1:u:226:GLN:O	2.19	0.43
1:u:190:TYR:CD1	1:u:448:PHE:HE1	2.37	0.43
1:u:489:MET:HB2	1:l:495:TYR:HB2	2.01	0.43
1:w:310:ALA:HA	1:y:384:MET:O	2.17	0.43
1:w:331:GLU:H	1:w:331:GLU:CD	2.27	0.43
1:w:359:ILE:HD13	1:y:267:TRP:CE3	2.53	0.43
1:1:331:GLU:H	1:1:331:GLU:CD	2.27	0.43
1:2:385:SER:HB3	1:2:396:ILE:HD11	2.00	0.43
1:3:190:TYR:CD1	1:3:448:PHE:HE1	2.36	0.43
1:6:161:GLN:NE2	1:6:445:GLY:H	2.16	0.43
1:7:172:ASN:OD1	1:7:417:PRO:HD3	2.17	0.43
1:8:156:GLN:HA	1:8:226:GLN:O	2.19	0.43
1:A:156:GLN:HA	1:A:226:GLN:O	2.19	0.43
1:E:495:TYR:HB2	1:P:489:MET:HB2	2.01	0.43
1:F:523:THR:HA	1:F:527:MET:SD	2.59	0.43
1:G:156:GLN:HA	1:G:226:GLN:O	2.19	0.43
1:G:182:SER:OG	1:G:349:MET:SD	2.72	0.43
1:I:190:TYR:CD1	1:I:448:PHE:HE1	2.37	0.43
1:K:403:PRO:HD2	1:a:325:MET:SD	2.58	0.43
1:N:282:CYS:HB2	1:P:306:LEU:HD22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:403:PRO:HD2	1:P:325:MET:SD	2.59	0.43
1:O:194:THR:HG22	1:O:195:SER:H	1.83	0.43
1:O:523:THR:HA	1:O:527:MET:SD	2.59	0.43
1:Q:370:ASP:H	1:Q:527:MET:HE1	1.83	0.43
1:R:156:GLN:HA	1:R:226:GLN:O	2.19	0.43
1:R:403:PRO:HD2	1:S:325:MET:SD	2.59	0.43
1:S:168:LEU:N	1:S:446:HIS:HE1	2.10	0.43
1:T:282:CYS:HB2	1:d:306:LEU:HD22	2.01	0.43
1:T:306:LEU:HD22	1:l:282:CYS:HB2	2.01	0.43
1:V:209:GLY:O	1:W:501:LYS:HE2	2.17	0.43
1:V:313:ALA:O	1:X:380:ARG:N	2.39	0.43
1:W:317:ASP:OD1	1:W:317:ASP:N	2.43	0.43
1:X:156:GLN:HA	1:X:226:GLN:O	2.19	0.43
1:Z:156:GLN:HA	1:Z:226:GLN:O	2.19	0.43
1:b:81:THR:HG23	1:b:84:GLN:CG	2.45	0.43
1:c:156:GLN:HA	1:c:226:GLN:O	2.19	0.43
1:c:523:THR:HA	1:c:527:MET:SD	2.59	0.43
1:d:523:THR:HA	1:d:527:MET:SD	2.59	0.43
1:e:370:ASP:H	1:e:527:MET:HE1	1.83	0.43
1:e:523:THR:HA	1:e:527:MET:SD	2.59	0.43
1:f:325:MET:SD	1:g:403:PRO:HD2	2.59	0.43
1:g:190:TYR:CD1	1:g:448:PHE:HE1	2.37	0.43
1:h:161:GLN:NE2	1:h:445:GLY:H	2.16	0.43
1:i:331:GLU:H	1:i:331:GLU:CD	2.27	0.43
1:i:403:PRO:HD2	1:j:325:MET:SD	2.59	0.43
1:j:190:TYR:CD1	1:j:448:PHE:HE1	2.36	0.43
1:j:489:MET:HB2	1:w:495:TYR:HB2	2.01	0.43
1:n:523:THR:HA	1:n:527:MET:SD	2.59	0.43
1:o:156:GLN:HA	1:o:226:GLN:O	2.19	0.43
1:q:190:TYR:CD1	1:q:448:PHE:HE1	2.37	0.43
1:s:76:GLN:HB2	1:s:84:GLN:OE1	2.18	0.43
1:t:156:GLN:HA	1:t:226:GLN:O	2.19	0.43
1:v:156:GLN:HA	1:v:226:GLN:O	2.19	0.43
1:y:523:THR:HA	1:y:527:MET:SD	2.59	0.43
1:z:209:GLY:O	1:4:501:LYS:HE2	2.17	0.43
1:1:75:GLY:CA	1:1:86:GLN:HG3	2.47	0.43
1:3:385:SER:HB3	1:3:396:ILE:HD11	2.00	0.43
1:5:301:ALA:O	1:7:272:ARG:NH2	2.37	0.43
1:6:76:GLN:HB2	1:6:84:GLN:OE1	2.18	0.43
1:B:75:GLY:CA	1:B:86:GLN:HG3	2.47	0.43
1:B:267:TRP:CE3	1:J:359:ILE:HD13	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:287:PRO:O	1:J:433:SER:HA	2.19	0.43
1:D:156:GLN:HA	1:D:226:GLN:O	2.19	0.43
1:E:359:ILE:HD13	1:F:267:TRP:CE3	2.53	0.43
1:J:161:GLN:NE2	1:J:445:GLY:H	2.16	0.43
1:J:385:SER:HB3	1:J:396:ILE:HD11	2.00	0.43
1:K:156:GLN:HA	1:K:226:GLN:O	2.19	0.43
1:K:523:THR:HA	1:K:527:MET:SD	2.59	0.43
1:M:170:TYR:OH	1:b:285:ARG:O	2.29	0.43
1:M:295:TYR:CE2	1:M:382:GLY:HA3	2.54	0.43
1:N:106:PHE:O	1:N:414:TYR:OH	2.25	0.43
1:O:35:THR:HB	1:O:233:GLU:HB3	1.99	0.43
1:O:156:GLN:HA	1:O:226:GLN:O	2.19	0.43
1:O:282:CYS:HB2	1:m:306:LEU:HD22	2.01	0.43
1:W:76:GLN:HB2	1:W:84:GLN:OE1	2.18	0.43
1:W:156:GLN:HA	1:W:226:GLN:O	2.19	0.43
1:W:523:THR:HA	1:W:527:MET:SD	2.59	0.43
1:a:156:GLN:HA	1:a:226:GLN:O	2.19	0.43
1:a:385:SER:HB3	1:a:396:ILE:HD11	2.00	0.43
1:b:331:GLU:H	1:b:331:GLU:CD	2.27	0.43
1:c:52:TYR:CD1	1:c:474:GLU:HG2	2.53	0.43
1:d:489:MET:HB2	1:n:495:TYR:HB2	2.01	0.43
1:d:495:TYR:HB2	1:n:489:MET:HB2	2.01	0.43
1:e:156:GLN:HA	1:e:226:GLN:O	2.19	0.43
1:e:161:GLN:NE2	1:e:445:GLY:H	2.16	0.43
1:e:190:TYR:CD1	1:e:448:PHE:HE1	2.37	0.43
1:f:331:GLU:H	1:f:331:GLU:CD	2.27	0.43
1:h:295:TYR:CE2	1:h:382:GLY:HA3	2.54	0.43
1:k:156:GLN:HA	1:k:226:GLN:O	2.19	0.43
1:l:105:HIS:CD2	1:l:418:ILE:HD11	2.53	0.43
1:l:523:THR:HA	1:l:527:MET:SD	2.59	0.43
1:o:370:ASP:H	1:o:527:MET:HE1	1.83	0.43
1:q:156:GLN:HA	1:q:226:GLN:O	2.19	0.43
1:q:523:THR:HA	1:q:527:MET:SD	2.59	0.43
1:r:331:GLU:H	1:r:331:GLU:CD	2.27	0.43
1:s:81:THR:HG23	1:s:84:GLN:CG	2.45	0.43
1:w:35:THR:HB	1:w:233:GLU:HB3	1.99	0.43
1:1:403:PRO:HD2	1:2:325:MET:SD	2.59	0.43
1:2:161:GLN:NE2	1:2:445:GLY:H	2.16	0.43
1:3:325:MET:SD	1:4:403:PRO:HD2	2.59	0.43
1:3:335:ASP:O	1:4:285:ARG:NH2	2.45	0.43
1:4:156:GLN:HA	1:4:226:GLN:O	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:523:THR:HA	1:4:527:MET:SD	2.59	0.43
1:5:325:MET:SD	1:7:403:PRO:HD2	2.59	0.43
1:6:523:THR:HA	1:6:527:MET:SD	2.59	0.43
1:8:212:THR:O	1:8:215:SER:OG	2.35	0.43
1:A:295:TYR:CE2	1:A:382:GLY:HA3	2.54	0.42
1:A:325:MET:SD	1:I:403:PRO:HD2	2.59	0.42
1:B:76:GLN:HB2	1:B:84:GLN:OE1	2.18	0.42
1:C:403:PRO:HD2	1:b:325:MET:SD	2.59	0.42
1:C:495:TYR:HB2	1:L:489:MET:HB2	2.01	0.42
1:E:285:ARG:NH2	1:Q:335:ASP:O	2.45	0.42
1:G:370:ASP:H	1:G:527:MET:HE1	1.83	0.42
1:G:385:SER:HB3	1:G:396:ILE:HD11	2.00	0.42
1:H:156:GLN:HA	1:H:226:GLN:O	2.19	0.42
1:H:325:MET:SD	1:Y:403:PRO:HD2	2.59	0.42
1:H:403:PRO:HD2	1:W:325:MET:SD	2.59	0.42
1:J:495:TYR:HB2	1:K:489:MET:HB2	2.01	0.42
1:K:285:ARG:NH2	1:a:335:ASP:O	2.45	0.42
1:N:287:PRO:O	1:P:433:SER:HA	2.19	0.42
1:O:325:MET:SD	1:n:403:PRO:HD2	2.59	0.42
1:P:81:THR:HG23	1:P:84:GLN:CG	2.45	0.42
1:P:523:THR:HA	1:P:527:MET:SD	2.59	0.42
1:Q:156:GLN:HA	1:Q:226:GLN:O	2.19	0.42
1:R:190:TYR:CD1	1:R:448:PHE:HE1	2.37	0.42
1:S:331:GLU:CD	1:S:331:GLU:H	2.27	0.42
1:W:489:MET:HB2	1:X:495:TYR:HB2	2.01	0.42
1:X:523:THR:HA	1:X:527:MET:SD	2.59	0.42
1:Y:295:TYR:CE2	1:Y:382:GLY:HA3	2.54	0.42
1:Y:385:SER:HB3	1:Y:396:ILE:HD11	2.00	0.42
1:d:295:TYR:CE2	1:d:382:GLY:HA3	2.54	0.42
1:f:370:ASP:H	1:f:527:MET:HE1	1.83	0.42
1:g:76:GLN:HB2	1:g:84:GLN:OE1	2.18	0.42
1:i:287:PRO:O	1:j:433:SER:HA	2.19	0.42
1:j:81:THR:HG23	1:j:84:GLN:CG	2.45	0.42
1:j:523:THR:HA	1:j:527:MET:SD	2.59	0.42
1:l:156:GLN:HA	1:l:226:GLN:O	2.19	0.42
1:n:295:TYR:CE2	1:n:382:GLY:HA3	2.54	0.42
1:o:495:TYR:HB2	1:6:489:MET:HB2	2.01	0.42
1:p:495:TYR:HB2	1:s:489:MET:HB2	2.01	0.42
1:r:194:THR:HG22	1:r:195:SER:H	1.83	0.42
1:r:282:CYS:HB2	1:s:306:LEU:HD22	2.00	0.42
1:r:430:LYS:NZ	1:s:428:GLN:O	2.39	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:495:TYR:HB2	1:5:489:MET:HB2	2.01	0.42
1:u:267:TRP:CE3	1:v:359:ILE:HD13	2.53	0.42
1:u:403:PRO:HD2	1:v:325:MET:SD	2.59	0.42
1:v:295:TYR:CE2	1:v:382:GLY:HA3	2.54	0.42
1:w:325:MET:SD	1:y:403:PRO:HD2	2.59	0.42
1:x:370:ASP:H	1:x:527:MET:HE1	1.83	0.42
1:y:370:ASP:H	1:y:527:MET:HE1	1.83	0.42
1:3:156:GLN:HA	1:3:226:GLN:O	2.19	0.42
1:4:35:THR:HB	1:4:233:GLU:HB3	1.99	0.42
1:6:156:GLN:HA	1:6:226:GLN:O	2.19	0.42
1:7:156:GLN:HA	1:7:226:GLN:O	2.19	0.42
1:7:385:SER:HB3	1:7:396:ILE:HD11	2.00	0.42
1:A:76:GLN:HB2	1:A:84:GLN:OE1	2.18	0.42
1:A:190:TYR:CD1	1:A:448:PHE:HE1	2.37	0.42
1:A:306:LEU:HD22	1:I:282:CYS:HB2	2.00	0.42
1:A:359:ILE:HD13	1:I:267:TRP:CE3	2.53	0.42
1:A:523:THR:HA	1:A:527:MET:SD	2.59	0.42
1:B:182:SER:OG	1:B:349:MET:SD	2.72	0.42
1:E:325:MET:SD	1:F:403:PRO:HD2	2.59	0.42
1:E:523:THR:HA	1:E:527:MET:SD	2.59	0.42
1:G:523:THR:HA	1:G:527:MET:SD	2.59	0.42
1:H:433:SER:HA	1:Y:287:PRO:O	2.19	0.42
1:I:523:THR:HA	1:I:527:MET:SD	2.59	0.42
1:J:295:TYR:CE2	1:J:382:GLY:HA3	2.54	0.42
1:J:499:ASP:OD1	1:J:524:ARG:NH2	2.43	0.42
1:K:35:THR:HB	1:K:233:GLU:HB3	1.99	0.42
1:K:331:GLU:H	1:K:331:GLU:CD	2.27	0.42
1:L:331:GLU:H	1:L:331:GLU:CD	2.27	0.42
1:N:295:TYR:CE2	1:N:382:GLY:HA3	2.54	0.42
1:O:105:HIS:CD2	1:O:418:ILE:HD11	2.53	0.42
1:Q:35:THR:HB	1:Q:233:GLU:HB3	1.99	0.42
1:Q:523:THR:HA	1:Q:527:MET:SD	2.59	0.42
1:U:81:THR:HG23	1:U:84:GLN:CG	2.45	0.42
1:U:156:GLN:HA	1:U:226:GLN:O	2.19	0.42
1:U:331:GLU:H	1:U:331:GLU:CD	2.27	0.42
1:U:345:LYS:HE3	1:U:364:ALA:O	2.20	0.42
1:V:403:PRO:HD2	1:e:325:MET:SD	2.59	0.42
1:X:370:ASP:H	1:X:527:MET:HE1	1.83	0.42
1:Y:156:GLN:HA	1:Y:226:GLN:O	2.19	0.42
1:Z:212:THR:O	1:Z:215:SER:OG	2.35	0.42
1:Z:370:ASP:H	1:Z:527:MET:HE1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:335:ASP:HB3	1:b:368:GLN:NE2	2.34	0.42
1:c:295:TYR:CE2	1:c:382:GLY:HA3	2.54	0.42
1:c:325:MET:SD	1:p:403:PRO:HD2	2.59	0.42
1:d:156:GLN:HA	1:d:226:GLN:O	2.19	0.42
1:d:403:PRO:HD2	1:l:325:MET:SD	2.59	0.42
1:e:295:TYR:CE2	1:e:382:GLY:HA3	2.54	0.42
1:f:335:ASP:HB3	1:f:368:GLN:NE2	2.34	0.42
1:h:523:THR:HA	1:h:527:MET:SD	2.59	0.42
1:i:295:TYR:CE2	1:i:382:GLY:HA3	2.54	0.42
1:k:295:TYR:CE2	1:k:382:GLY:HA3	2.54	0.42
1:m:489:MET:HB2	1:r:495:TYR:HB2	2.01	0.42
1:o:523:THR:HA	1:o:527:MET:SD	2.59	0.42
1:p:370:ASP:H	1:p:527:MET:HE1	1.83	0.42
1:r:335:ASP:HB3	1:r:368:GLN:NE2	2.35	0.42
1:s:156:GLN:HA	1:s:226:GLN:O	2.19	0.42
1:s:345:LYS:HE3	1:s:364:ALA:O	2.20	0.42
1:t:285:ARG:O	1:u:170:TYR:OH	2.29	0.42
1:t:370:ASP:H	1:t:527:MET:HE1	1.83	0.42
1:t:523:THR:HA	1:t:527:MET:SD	2.59	0.42
1:u:282:CYS:HB2	1:v:306:LEU:HD22	2.00	0.42
1:v:76:GLN:HB2	1:v:84:GLN:OE1	2.18	0.42
1:v:190:TYR:CD1	1:v:448:PHE:HE1	2.37	0.42
1:v:523:THR:HA	1:v:527:MET:SD	2.59	0.42
1:w:523:THR:HA	1:w:527:MET:SD	2.59	0.42
1:z:331:GLU:H	1:z:331:GLU:CD	2.27	0.42
1:1:76:GLN:HB2	1:1:84:GLN:OE1	2.18	0.42
1:2:190:TYR:CD1	1:2:448:PHE:HE1	2.36	0.42
1:2:295:TYR:CE2	1:2:382:GLY:HA3	2.54	0.42
1:2:495:TYR:HB2	1:4:489:MET:HB2	2.01	0.42
1:2:499:ASP:OD1	1:2:524:ARG:NH2	2.43	0.42
1:2:523:THR:HA	1:2:527:MET:SD	2.59	0.42
1:3:76:GLN:HB2	1:3:84:GLN:OE1	2.18	0.42
1:3:168:LEU:N	1:3:446:HIS:HE1	2.10	0.42
1:4:76:GLN:HB2	1:4:84:GLN:OE1	2.18	0.42
1:5:156:GLN:HA	1:5:226:GLN:O	2.19	0.42
1:5:161:GLN:NE2	1:5:445:GLY:H	2.16	0.42
1:5:267:TRP:CE3	1:6:359:ILE:HD13	2.54	0.42
1:5:285:ARG:O	1:6:170:TYR:OH	2.29	0.42
1:5:403:PRO:HD2	1:6:325:MET:SD	2.59	0.42
1:5:433:SER:HA	1:7:287:PRO:O	2.19	0.42
1:7:295:TYR:CE2	1:7:382:GLY:HA3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:495:TYR:HB2	1:F:489:MET:HB2	2.01	0.42
1:C:194:THR:HG22	1:C:195:SER:H	1.83	0.42
1:C:489:MET:HB2	1:L:495:TYR:HB2	2.01	0.42
1:D:295:TYR:CE2	1:D:382:GLY:HA3	2.54	0.42
1:E:370:ASP:H	1:E:527:MET:HE1	1.83	0.42
1:F:370:ASP:H	1:F:527:MET:HE1	1.83	0.42
1:H:306:LEU:HD22	1:Y:282:CYS:HB2	2.00	0.42
1:H:331:GLU:H	1:H:331:GLU:CD	2.27	0.42
1:I:335:ASP:HB3	1:I:368:GLN:NE2	2.35	0.42
1:J:190:TYR:CD1	1:J:448:PHE:HE1	2.37	0.42
1:M:335:ASP:O	1:b:285:ARG:NH2	2.45	0.42
1:M:523:THR:HA	1:M:527:MET:SD	2.59	0.42
1:Q:370:ASP:OD1	1:Q:527:MET:HE1	2.20	0.42
1:R:345:LYS:HE3	1:R:364:ALA:O	2.20	0.42
1:S:194:THR:HG22	1:S:195:SER:H	1.83	0.42
1:S:282:CYS:HB2	1:U:306:LEU:HD22	2.00	0.42
1:S:335:ASP:HB3	1:S:368:GLN:NE2	2.35	0.42
1:S:430:LYS:NZ	1:U:428:GLN:O	2.39	0.42
1:S:495:TYR:HB2	1:T:489:MET:HB2	2.01	0.42
1:T:370:ASP:OD1	1:T:527:MET:HE1	2.20	0.42
1:U:370:ASP:OD1	1:U:527:MET:HE1	2.20	0.42
1:U:489:MET:HB2	1:V:495:TYR:HB2	2.01	0.42
1:W:495:TYR:HB2	1:X:489:MET:HB2	2.01	0.42
1:X:335:ASP:HB3	1:X:368:GLN:NE2	2.35	0.42
1:Y:331:GLU:H	1:Y:331:GLU:CD	2.27	0.42
1:Y:495:TYR:HB2	1:Z:489:MET:HB2	2.01	0.42
1:Z:325:MET:SD	1:3:403:PRO:HD2	2.59	0.42
1:Z:523:THR:HA	1:Z:527:MET:SD	2.59	0.42
1:a:76:GLN:HB2	1:a:84:GLN:OE1	2.18	0.42
1:a:403:PRO:HD2	1:8:325:MET:SD	2.59	0.42
1:b:370:ASP:H	1:b:527:MET:HE1	1.83	0.42
1:c:331:GLU:H	1:c:331:GLU:CD	2.27	0.42
1:d:331:GLU:H	1:d:331:GLU:CD	2.27	0.42
1:e:331:GLU:H	1:e:331:GLU:CD	2.27	0.42
1:g:489:MET:HB2	1:z:495:TYR:HB2	2.01	0.42
1:g:495:TYR:HB2	1:z:489:MET:HB2	2.01	0.42
1:i:106:PHE:O	1:i:414:TYR:OH	2.25	0.42
1:m:370:ASP:OD1	1:m:527:MET:HE1	2.20	0.42
1:n:156:GLN:HA	1:n:226:GLN:O	2.19	0.42
1:n:331:GLU:CD	1:n:331:GLU:H	2.27	0.42
1:o:335:ASP:HB3	1:o:368:GLN:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:489:MET:HB2	1:6:495:TYR:HB2	2.01	0.42
1:p:454:LYS:NZ	1:6:149:ASN:OD1	2.44	0.42
1:r:156:GLN:HA	1:r:226:GLN:O	2.19	0.42
1:s:331:GLU:H	1:s:331:GLU:CD	2.27	0.42
1:s:370:ASP:OD1	1:s:527:MET:HE1	2.20	0.42
1:t:385:SER:HB3	1:t:396:ILE:HD11	2.00	0.42
1:u:335:ASP:HB3	1:u:368:GLN:NE2	2.35	0.42
1:w:335:ASP:HB3	1:w:368:GLN:NE2	2.34	0.42
1:x:35:THR:HB	1:x:233:GLU:HB3	1.99	0.42
1:x:156:GLN:HA	1:x:226:GLN:O	2.19	0.42
1:x:161:GLN:NE2	1:x:445:GLY:H	2.16	0.42
1:x:370:ASP:OD1	1:x:527:MET:HE1	2.20	0.42
1:x:523:THR:HA	1:x:527:MET:SD	2.59	0.42
1:z:370:ASP:H	1:z:527:MET:HE1	1.83	0.42
1:4:331:GLU:H	1:4:331:GLU:CD	2.27	0.42
1:5:282:CYS:HB2	1:6:306:LEU:HD22	2.01	0.42
1:7:495:TYR:HB2	1:8:489:MET:HB2	2.01	0.42
1:8:331:GLU:H	1:8:331:GLU:CD	2.27	0.42
1:8:370:ASP:H	1:8:527:MET:HE1	1.83	0.42
1:8:523:THR:HA	1:8:527:MET:SD	2.59	0.42
1:C:156:GLN:HA	1:C:226:GLN:O	2.19	0.42
1:C:325:MET:SD	1:M:403:PRO:HD2	2.59	0.42
1:D:335:ASP:HB3	1:D:368:GLN:NE2	2.35	0.42
1:D:433:SER:HA	1:P:287:PRO:O	2.20	0.42
1:E:335:ASP:HB3	1:E:368:GLN:NE2	2.34	0.42
1:F:291:GLY:HA3	1:F:407:TRP:HB3	2.02	0.42
1:F:331:GLU:H	1:F:331:GLU:CD	2.27	0.42
1:F:370:ASP:OD1	1:F:527:MET:HE1	2.20	0.42
1:H:161:GLN:NE2	1:H:445:GLY:H	2.16	0.42
1:J:523:THR:HA	1:J:527:MET:SD	2.59	0.42
1:K:76:GLN:HB2	1:K:84:GLN:OE1	2.18	0.42
1:L:156:GLN:HA	1:L:226:GLN:O	2.19	0.42
1:M:76:GLN:HB2	1:M:84:GLN:OE1	2.18	0.42
1:N:345:LYS:HE3	1:N:364:ALA:O	2.20	0.42
1:O:295:TYR:CE2	1:O:382:GLY:HA3	2.54	0.42
1:Q:161:GLN:NE2	1:Q:445:GLY:H	2.16	0.42
1:R:267:TRP:CE3	1:S:359:ILE:HD13	2.53	0.42
1:S:156:GLN:HA	1:S:226:GLN:O	2.19	0.42
1:T:295:TYR:CE2	1:T:382:GLY:HA3	2.54	0.42
1:V:370:ASP:H	1:V:527:MET:HE1	1.83	0.42
1:X:433:SER:HA	1:e:287:PRO:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:331:GLU:H	1:Z:331:GLU:CD	2.27	0.42
1:a:335:ASP:HB3	1:a:368:GLN:NE2	2.35	0.42
1:b:190:TYR:CD1	1:b:448:PHE:HE1	2.36	0.42
1:b:495:TYR:HB2	1:c:489:MET:HB2	2.01	0.42
1:c:168:LEU:N	1:c:446:HIS:HE1	2.10	0.42
1:c:287:PRO:O	1:o:433:SER:HA	2.20	0.42
1:d:370:ASP:OD1	1:d:527:MET:HE1	2.20	0.42
1:e:489:MET:HB2	1:f:495:TYR:HB2	2.01	0.42
1:g:156:GLN:HA	1:g:226:GLN:O	2.19	0.42
1:g:523:THR:HA	1:g:527:MET:SD	2.59	0.42
1:h:76:GLN:HB2	1:h:84:GLN:OE1	2.18	0.42
1:j:287:PRO:O	1:k:433:SER:HA	2.20	0.42
1:m:295:TYR:CE2	1:m:382:GLY:HA3	2.54	0.42
1:n:370:ASP:OD1	1:n:527:MET:HE1	2.20	0.42
1:o:380:ARG:N	1:p:313:ALA:O	2.39	0.42
1:q:345:LYS:HE3	1:q:364:ALA:O	2.20	0.42
1:u:523:THR:HA	1:u:527:MET:SD	2.59	0.42
1:v:495:TYR:HB2	1:y:489:MET:HB2	2.01	0.42
1:w:345:LYS:HE3	1:w:364:ALA:O	2.19	0.42
1:y:291:GLY:HA3	1:y:407:TRP:HB3	2.02	0.42
1:y:331:GLU:H	1:y:331:GLU:CD	2.27	0.42
1:y:370:ASP:OD1	1:y:527:MET:HE1	2.20	0.42
1:z:325:MET:SD	1:2:403:PRO:HD2	2.59	0.42
1:5:331:GLU:H	1:5:331:GLU:CD	2.27	0.42
1:5:359:ILE:HD13	1:7:267:TRP:CE3	2.54	0.42
1:7:331:GLU:H	1:7:331:GLU:CD	2.27	0.42
1:7:345:LYS:HE3	1:7:364:ALA:O	2.20	0.42
1:8:385:SER:HB3	1:8:396:ILE:HD11	2.00	0.42
1:A:345:LYS:HE3	1:A:364:ALA:O	2.20	0.42
1:C:523:THR:HA	1:C:527:MET:SD	2.59	0.42
1:E:345:LYS:HE3	1:E:364:ALA:O	2.19	0.42
1:G:331:GLU:H	1:G:331:GLU:CD	2.27	0.42
1:H:359:ILE:HD13	1:Y:267:TRP:CE3	2.54	0.42
1:L:370:ASP:H	1:L:527:MET:HE1	1.83	0.42
1:L:523:THR:HA	1:L:527:MET:SD	2.59	0.42
1:M:35:THR:HG1	1:M:132:ASN:H	1.59	0.42
1:M:345:LYS:HE3	1:M:364:ALA:O	2.20	0.42
1:N:370:ASP:OD1	1:N:527:MET:HE1	2.20	0.42
1:Q:489:MET:HB2	1:R:495:TYR:HB2	2.01	0.42
1:T:287:PRO:O	1:d:433:SER:HA	2.20	0.42
1:V:370:ASP:OD1	1:V:527:MET:HE1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:345:LYS:HE3	1:Y:364:ALA:O	2.20	0.42
1:Z:295:TYR:CE2	1:Z:382:GLY:HA3	2.54	0.42
1:a:168:LEU:N	1:a:446:HIS:HE1	2.10	0.42
1:a:345:LYS:HE3	1:a:364:ALA:O	2.20	0.42
1:b:291:GLY:HA3	1:b:407:TRP:HB3	2.02	0.42
1:b:370:ASP:OD1	1:b:527:MET:HE1	2.20	0.42
1:d:335:ASP:HB3	1:d:368:GLN:NE2	2.35	0.42
1:f:282:CYS:HB2	1:h:306:LEU:HD22	2.00	0.42
1:f:291:GLY:HA3	1:f:407:TRP:HB3	2.02	0.42
1:f:370:ASP:OD1	1:f:527:MET:HE1	2.20	0.42
1:g:325:MET:SD	1:h:403:PRO:HD2	2.59	0.42
1:h:345:LYS:HE3	1:h:364:ALA:O	2.20	0.42
1:i:345:LYS:HE3	1:i:364:ALA:O	2.20	0.42
1:k:335:ASP:HB3	1:k:368:GLN:NE2	2.35	0.42
1:l:295:TYR:CE2	1:l:382:GLY:HA3	2.54	0.42
1:m:345:LYS:HE3	1:m:364:ALA:O	2.20	0.42
1:m:523:THR:HA	1:m:527:MET:SD	2.59	0.42
1:n:335:ASP:HB3	1:n:368:GLN:NE2	2.35	0.42
1:p:331:GLU:H	1:p:331:GLU:CD	2.27	0.42
1:p:370:ASP:OD1	1:p:527:MET:HE1	2.20	0.42
1:q:161:GLN:NE2	1:q:445:GLY:H	2.16	0.42
1:q:495:TYR:HB2	1:x:489:MET:HB2	2.01	0.42
1:v:345:LYS:HE3	1:v:364:ALA:O	2.20	0.42
1:w:285:ARG:NH2	1:x:335:ASP:O	2.45	0.42
1:w:370:ASP:H	1:w:527:MET:HE1	1.83	0.42
1:y:156:GLN:HA	1:y:226:GLN:O	2.19	0.42
1:z:81:THR:HG23	1:z:84:GLN:CG	2.45	0.42
1:z:156:GLN:HA	1:z:226:GLN:O	2.19	0.42
1:z:306:LEU:HD22	1:2:282:CYS:HB2	2.00	0.42
1:1:287:PRO:O	1:2:433:SER:HA	2.20	0.42
1:3:335:ASP:HB3	1:3:368:GLN:NE2	2.35	0.42
1:5:345:LYS:HE3	1:5:364:ALA:O	2.20	0.42
1:B:295:TYR:CE2	1:B:382:GLY:HA3	2.54	0.42
1:D:325:MET:SD	1:P:403:PRO:HD2	2.59	0.42
1:E:291:GLY:HA3	1:E:407:TRP:HB3	2.02	0.42
1:E:306:LEU:HD22	1:F:282:CYS:HB2	2.01	0.42
1:F:76:GLN:HB2	1:F:84:GLN:OE1	2.18	0.42
1:G:285:ARG:O	1:I:170:TYR:OH	2.29	0.42
1:G:335:ASP:HB3	1:G:368:GLN:NE2	2.34	0.42
1:I:385:SER:HB3	1:I:396:ILE:HD11	2.00	0.42
1:J:370:ASP:H	1:J:527:MET:HE1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:403:PRO:HD2	1:L:325:MET:SD	2.59	0.42
1:M:306:LEU:HD22	1:b:282:CYS:HB2	2.00	0.42
1:N:267:TRP:CE3	1:P:359:ILE:HD13	2.54	0.42
1:N:291:GLY:HA3	1:N:407:TRP:HB3	2.02	0.42
1:O:370:ASP:OD1	1:O:527:MET:HE1	2.20	0.42
1:P:345:LYS:HE3	1:P:364:ALA:O	2.20	0.42
1:Q:331:GLU:H	1:Q:331:GLU:CD	2.27	0.42
1:T:335:ASP:HB3	1:T:368:GLN:NE2	2.35	0.42
1:T:345:LYS:HE3	1:T:364:ALA:O	2.20	0.42
1:U:291:GLY:HA3	1:U:407:TRP:HB3	2.02	0.42
1:V:306:LEU:HD22	1:X:282:CYS:HB2	2.00	0.42
1:V:331:GLU:H	1:V:331:GLU:CD	2.27	0.42
1:V:523:THR:HA	1:V:527:MET:SD	2.59	0.42
1:Y:489:MET:HB2	1:Z:495:TYR:HB2	2.01	0.42
1:Z:190:TYR:CD1	1:Z:448:PHE:HE1	2.37	0.42
1:Z:385:SER:HB3	1:Z:396:ILE:HD11	2.00	0.42
1:f:190:TYR:CD1	1:f:448:PHE:HE1	2.36	0.42
1:g:194:THR:HG22	1:g:195:SER:H	1.83	0.42
1:g:370:ASP:OD1	1:g:527:MET:HE1	2.20	0.42
1:i:267:TRP:CE3	1:j:359:ILE:HD13	2.54	0.42
1:i:291:GLY:HA3	1:i:407:TRP:HB3	2.02	0.42
1:i:370:ASP:OD1	1:i:527:MET:HE1	2.20	0.42
1:i:399:SER:HA	1:j:398:TRP:CD1	2.55	0.42
1:j:403:PRO:HD2	1:k:325:MET:SD	2.59	0.42
1:k:370:ASP:OD1	1:k:527:MET:HE1	2.20	0.42
1:m:287:PRO:O	1:n:433:SER:HA	2.20	0.42
1:m:335:ASP:HB3	1:m:368:GLN:NE2	2.35	0.42
1:o:282:CYS:HB2	1:p:306:LEU:HD22	2.00	0.42
1:p:212:THR:O	1:p:215:SER:OG	2.35	0.42
1:p:335:ASP:HB3	1:p:368:GLN:NE2	2.35	0.42
1:q:267:TRP:CE3	1:r:359:ILE:HD13	2.53	0.42
1:s:190:TYR:CD1	1:s:448:PHE:HE1	2.37	0.42
1:t:331:GLU:H	1:t:331:GLU:CD	2.27	0.42
1:t:345:LYS:HE3	1:t:364:ALA:O	2.20	0.42
1:u:385:SER:HB3	1:u:396:ILE:HD11	2.00	0.42
1:w:156:GLN:HA	1:w:226:GLN:O	2.19	0.42
1:w:291:GLY:HA3	1:w:407:TRP:HB3	2.02	0.42
1:w:306:LEU:HD22	1:y:282:CYS:HB2	2.01	0.42
1:x:335:ASP:HB3	1:x:368:GLN:NE2	2.35	0.42
1:z:523:THR:HA	1:z:527:MET:SD	2.59	0.42
1:1:345:LYS:HE3	1:1:364:ALA:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:370:ASP:H	1:2:527:MET:HE1	1.83	0.42
1:3:295:TYR:CE2	1:3:382:GLY:HA3	2.54	0.42
1:3:345:LYS:HE3	1:3:364:ALA:O	2.20	0.42
1:5:287:PRO:O	1:6:433:SER:HA	2.19	0.42
1:8:190:TYR:CD1	1:8:448:PHE:HE1	2.37	0.42
1:A:335:ASP:HB3	1:A:368:GLN:NE2	2.35	0.42
1:B:345:LYS:HE3	1:B:364:ALA:O	2.20	0.42
1:B:399:SER:HA	1:J:398:TRP:CD1	2.55	0.42
1:C:370:ASP:OD1	1:C:527:MET:HE1	2.20	0.42
1:C:485:HIS:HB2	1:b:164:ARG:HG3	2.02	0.42
1:D:454:LYS:NZ	1:E:149:ASN:OD1	2.44	0.42
1:E:156:GLN:HA	1:E:226:GLN:O	2.19	0.42
1:F:156:GLN:HA	1:F:226:GLN:O	2.19	0.42
1:F:190:TYR:CD1	1:F:448:PHE:HE1	2.37	0.42
1:G:345:LYS:HE3	1:G:364:ALA:O	2.20	0.42
1:H:168:LEU:N	1:H:446:HIS:HE1	2.10	0.42
1:H:345:LYS:HE3	1:H:364:ALA:O	2.20	0.42
1:I:331:GLU:H	1:I:331:GLU:CD	2.27	0.42
1:J:156:GLN:HA	1:J:226:GLN:O	2.19	0.42
1:J:282:CYS:HB2	1:L:306:LEU:HD22	2.01	0.42
1:L:81:THR:HG23	1:L:84:GLN:CG	2.45	0.42
1:N:156:GLN:HA	1:N:226:GLN:O	2.19	0.42
1:N:399:SER:HA	1:P:398:TRP:CD1	2.55	0.42
1:N:485:HIS:HB2	1:P:164:ARG:HG3	2.02	0.42
1:P:335:ASP:HB3	1:P:368:GLN:NE2	2.35	0.42
1:Q:335:ASP:HB3	1:Q:368:GLN:NE2	2.35	0.42
1:Q:345:LYS:HE3	1:Q:364:ALA:O	2.20	0.42
1:T:523:THR:HA	1:T:527:MET:SD	2.59	0.42
1:U:190:TYR:CD1	1:U:448:PHE:HE1	2.36	0.42
1:V:156:GLN:HA	1:V:226:GLN:O	2.19	0.42
1:W:295:TYR:CE2	1:W:382:GLY:HA3	2.54	0.42
1:Y:523:THR:HA	1:Y:527:MET:SD	2.59	0.42
1:d:342:TRP:CH2	1:d:361:VAL:HG22	2.55	0.42
1:e:168:LEU:N	1:e:446:HIS:HE1	2.10	0.42
1:f:156:GLN:HA	1:f:226:GLN:O	2.19	0.42
1:g:81:THR:HG23	1:g:84:GLN:CG	2.45	0.42
1:i:523:THR:HA	1:i:527:MET:SD	2.59	0.42
1:j:295:TYR:CE2	1:j:382:GLY:HA3	2.54	0.42
1:j:335:ASP:HB3	1:j:368:GLN:NE2	2.35	0.42
1:j:345:LYS:HE3	1:j:364:ALA:O	2.20	0.42
1:j:370:ASP:H	1:j:527:MET:HE1	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:370:ASP:OD1	1:l:527:MET:HE1	2.20	0.42
1:m:291:GLY:HA3	1:m:407:TRP:HB3	2.02	0.42
1:n:342:TRP:CH2	1:n:361:VAL:HG22	2.55	0.42
1:n:345:LYS:HE3	1:n:364:ALA:O	2.20	0.42
1:p:295:TYR:CE2	1:p:382:GLY:HA3	2.54	0.42
1:q:81:THR:HG23	1:q:84:GLN:CG	2.45	0.42
1:r:345:LYS:HE3	1:r:364:ALA:O	2.20	0.42
1:s:291:GLY:HA3	1:s:407:TRP:HB3	2.02	0.42
1:v:331:GLU:H	1:v:331:GLU:CD	2.27	0.42
1:v:335:ASP:HB3	1:v:368:GLN:NE2	2.35	0.42
1:x:331:GLU:H	1:x:331:GLU:CD	2.27	0.42
1:y:76:GLN:HB2	1:y:84:GLN:OE1	2.18	0.42
1:y:190:TYR:CD1	1:y:448:PHE:HE1	2.37	0.42
1:2:156:GLN:HA	1:2:226:GLN:O	2.19	0.42
1:2:335:ASP:HB3	1:2:368:GLN:NE2	2.35	0.42
1:3:433:SER:HA	1:4:287:PRO:O	2.20	0.42
1:4:295:TYR:CE2	1:4:382:GLY:HA3	2.54	0.42
1:5:168:LEU:N	1:5:446:HIS:HE1	2.10	0.42
1:5:306:LEU:HD22	1:7:282:CYS:HB2	2.01	0.42
1:7:489:MET:HB2	1:8:495:TYR:HB2	2.01	0.42
1:8:295:TYR:CE2	1:8:382:GLY:HA3	2.54	0.42
1:A:164:ARG:HG3	1:I:485:HIS:HB2	2.02	0.42
1:B:370:ASP:OD1	1:B:527:MET:HE1	2.20	0.42
1:B:374:LEU:HD21	1:B:409:ASN:O	2.20	0.42
1:C:81:THR:HG23	1:C:84:GLN:CG	2.45	0.42
1:C:335:ASP:HB3	1:C:368:GLN:NE2	2.35	0.42
1:D:370:ASP:OD1	1:D:527:MET:HE1	2.20	0.42
1:E:164:ARG:HG3	1:F:485:HIS:HB2	2.02	0.42
1:E:342:TRP:CH2	1:E:361:VAL:HG22	2.55	0.42
1:H:285:ARG:O	1:W:170:TYR:OH	2.30	0.42
1:H:287:PRO:O	1:W:433:SER:HA	2.20	0.42
1:K:287:PRO:O	1:a:433:SER:HA	2.20	0.42
1:K:295:TYR:CE2	1:K:382:GLY:HA3	2.54	0.42
1:N:489:MET:HB2	1:O:495:TYR:HB2	2.01	0.42
1:N:523:THR:HA	1:N:527:MET:SD	2.59	0.42
1:P:291:GLY:HA3	1:P:407:TRP:HB3	2.02	0.42
1:P:295:TYR:CE2	1:P:382:GLY:HA3	2.54	0.42
1:P:342:TRP:CH2	1:P:361:VAL:HG22	2.55	0.42
1:P:370:ASP:H	1:P:527:MET:HE1	1.83	0.42
1:P:370:ASP:OD1	1:P:527:MET:HE1	2.20	0.42
1:Q:374:LEU:HD21	1:Q:409:ASN:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:81:THR:HG23	1:R:84:GLN:CG	2.45	0.42
1:R:161:GLN:NE2	1:R:445:GLY:H	2.16	0.42
1:R:282:CYS:HB2	1:S:306:LEU:HD22	2.01	0.42
1:R:291:GLY:HA3	1:R:407:TRP:HB3	2.02	0.42
1:R:335:ASP:HB3	1:R:368:GLN:NE2	2.35	0.42
1:R:342:TRP:CH2	1:R:361:VAL:HG22	2.55	0.42
1:S:295:TYR:CE2	1:S:382:GLY:HA3	2.54	0.42
1:S:345:LYS:HE3	1:S:364:ALA:O	2.20	0.42
1:T:285:ARG:O	1:d:170:TYR:OH	2.29	0.42
1:T:291:GLY:HA3	1:T:407:TRP:HB3	2.02	0.42
1:V:295:TYR:CE2	1:V:382:GLY:HA3	2.54	0.42
1:V:335:ASP:HB3	1:V:368:GLN:NE2	2.35	0.42
1:V:433:SER:HA	1:X:287:PRO:O	2.20	0.42
1:W:370:ASP:OD1	1:W:527:MET:HE1	2.20	0.42
1:X:81:THR:HG23	1:X:84:GLN:CG	2.45	0.42
1:Y:370:ASP:OD1	1:Y:527:MET:HE1	2.20	0.42
1:a:295:TYR:CE2	1:a:382:GLY:HA3	2.54	0.42
1:a:489:MET:HB2	1:3:495:TYR:HB2	2.01	0.42
1:b:156:GLN:HA	1:b:226:GLN:O	2.19	0.42
1:b:194:THR:HG22	1:b:195:SER:H	1.83	0.42
1:d:345:LYS:HE3	1:d:364:ALA:O	2.20	0.42
1:f:164:ARG:HG3	1:g:485:HIS:HB2	2.02	0.42
1:f:285:ARG:NH2	1:h:335:ASP:O	2.45	0.42
1:h:35:THR:HG1	1:h:132:ASN:H	1.59	0.42
1:i:156:GLN:HA	1:i:226:GLN:O	2.19	0.42
1:i:485:HIS:HB2	1:j:164:ARG:HG3	2.02	0.42
1:j:291:GLY:HA3	1:j:407:TRP:HB3	2.02	0.42
1:j:342:TRP:CH2	1:j:361:VAL:HG22	2.55	0.42
1:j:399:SER:HA	1:k:398:TRP:CD1	2.55	0.42
1:k:454:LYS:NZ	1:w:149:ASN:OD1	2.44	0.42
1:k:523:THR:HA	1:k:527:MET:SD	2.59	0.42
1:n:81:THR:HG23	1:n:84:GLN:CG	2.45	0.42
1:o:81:THR:HG23	1:o:84:GLN:CG	2.45	0.42
1:o:287:PRO:O	1:p:433:SER:HA	2.20	0.42
1:p:156:GLN:HA	1:p:226:GLN:O	2.19	0.42
1:p:523:THR:HA	1:p:527:MET:SD	2.59	0.42
1:q:282:CYS:HB2	1:r:306:LEU:HD22	2.01	0.42
1:q:291:GLY:HA3	1:q:407:TRP:HB3	2.02	0.42
1:q:335:ASP:HB3	1:q:368:GLN:NE2	2.35	0.42
1:q:342:TRP:CH2	1:q:361:VAL:HG22	2.55	0.42
1:q:433:SER:HA	1:s:287:PRO:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:374:LEU:HD21	1:s:409:ASN:O	2.20	0.42
1:s:523:THR:HA	1:s:527:MET:SD	2.59	0.42
1:t:287:PRO:O	1:u:433:SER:HA	2.20	0.42
1:t:335:ASP:HB3	1:t:368:GLN:NE2	2.35	0.42
1:u:331:GLU:H	1:u:331:GLU:CD	2.27	0.42
1:x:345:LYS:HE3	1:x:364:ALA:O	2.20	0.42
1:x:374:LEU:HD21	1:x:409:ASN:O	2.20	0.42
1:1:295:TYR:CE2	1:1:382:GLY:HA3	2.54	0.42
1:1:370:ASP:OD1	1:1:527:MET:HE1	2.20	0.42
1:3:342:TRP:CH2	1:3:361:VAL:HG22	2.55	0.42
1:5:164:ARG:HG3	1:7:485:HIS:HB2	2.02	0.42
1:5:291:GLY:HA3	1:5:407:TRP:HB3	2.02	0.42
1:5:342:TRP:CH2	1:5:361:VAL:HG22	2.55	0.42
1:6:295:TYR:CE2	1:6:382:GLY:HA3	2.54	0.42
1:6:370:ASP:OD1	1:6:527:MET:HE1	2.20	0.42
1:8:335:ASP:HB3	1:8:368:GLN:NE2	2.35	0.42
1:8:370:ASP:OD1	1:8:527:MET:HE1	2.20	0.42
1:A:287:PRO:O	1:G:433:SER:HA	2.20	0.42
1:A:291:GLY:HA3	1:A:407:TRP:HB3	2.02	0.42
1:A:331:GLU:H	1:A:331:GLU:CD	2.27	0.42
1:A:433:SER:HA	1:I:287:PRO:O	2.20	0.42
1:B:156:GLN:HA	1:B:226:GLN:O	2.19	0.42
1:B:403:PRO:HD2	1:J:325:MET:SD	2.59	0.42
1:B:433:SER:HA	1:L:287:PRO:O	2.19	0.42
1:C:291:GLY:HA3	1:C:407:TRP:HB3	2.02	0.42
1:D:398:TRP:CD1	1:P:399:SER:HA	2.55	0.42
1:D:523:THR:HA	1:D:527:MET:SD	2.59	0.42
1:F:342:TRP:CH2	1:F:361:VAL:HG22	2.55	0.42
1:G:287:PRO:O	1:I:433:SER:HA	2.20	0.42
1:G:370:ASP:OD1	1:G:527:MET:HE1	2.20	0.42
1:H:291:GLY:HA3	1:H:407:TRP:HB3	2.02	0.42
1:H:523:THR:HA	1:H:527:MET:SD	2.59	0.42
1:I:370:ASP:OD1	1:I:527:MET:HE1	2.20	0.42
1:J:331:GLU:H	1:J:331:GLU:CD	2.27	0.42
1:J:335:ASP:HB3	1:J:368:GLN:NE2	2.35	0.42
1:K:398:TRP:CD1	1:8:399:SER:HA	2.55	0.42
1:O:161:GLN:NE2	1:O:445:GLY:H	2.16	0.42
1:O:285:ARG:O	1:m:170:TYR:OH	2.29	0.42
1:O:287:PRO:O	1:m:433:SER:HA	2.20	0.42
1:Q:296:LEU:HD13	1:Q:322:ALA:HA	2.02	0.42
1:R:374:LEU:HD23	1:R:529:LYS:HE2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:433:SER:HA	1:U:287:PRO:O	2.20	0.42
1:S:370:ASP:OD1	1:S:527:MET:HE1	2.20	0.42
1:T:399:SER:HA	1:d:398:TRP:CD1	2.55	0.42
1:U:295:TYR:CE2	1:U:382:GLY:HA3	2.54	0.42
1:V:212:THR:O	1:V:215:SER:OG	2.35	0.42
1:V:345:LYS:HE3	1:V:364:ALA:O	2.20	0.42
1:V:374:LEU:HD21	1:V:409:ASN:O	2.20	0.42
1:W:331:GLU:H	1:W:331:GLU:CD	2.27	0.42
1:W:345:LYS:HE3	1:W:364:ALA:O	2.20	0.42
1:Z:306:LEU:HD22	1:3:282:CYS:HB2	2.00	0.42
1:Z:335:ASP:HB3	1:Z:368:GLN:NE2	2.35	0.42
1:Z:370:ASP:OD1	1:Z:527:MET:HE1	2.20	0.42
1:Z:399:SER:HA	1:4:398:TRP:CD1	2.55	0.42
1:a:282:CYS:HB2	1:8:306:LEU:HD22	2.00	0.42
1:a:342:TRP:CH2	1:a:361:VAL:HG22	2.55	0.42
1:b:374:LEU:HD21	1:b:409:ASN:O	2.20	0.42
1:b:374:LEU:HD23	1:b:529:LYS:HE2	2.02	0.42
1:d:81:THR:HG23	1:d:84:GLN:CG	2.45	0.42
1:d:181:PRO:HD3	1:n:487:TRP:CH2	2.55	0.42
1:d:487:TRP:CH2	1:n:181:PRO:HD3	2.55	0.42
1:f:194:THR:HG22	1:f:195:SER:H	1.83	0.42
1:f:374:LEU:HD23	1:f:529:LYS:HE2	2.02	0.42
1:g:295:TYR:CE2	1:g:382:GLY:HA3	2.54	0.42
1:h:370:ASP:OD1	1:h:527:MET:HE1	2.20	0.42
1:i:374:LEU:HD21	1:i:409:ASN:O	2.20	0.42
1:i:433:SER:HA	1:k:287:PRO:O	2.20	0.42
1:j:370:ASP:OD1	1:j:527:MET:HE1	2.20	0.42
1:m:399:SER:HA	1:n:398:TRP:CD1	2.55	0.42
1:n:374:LEU:HD21	1:n:409:ASN:O	2.20	0.42
1:o:331:GLU:H	1:o:331:GLU:CD	2.27	0.42
1:p:374:LEU:HD21	1:p:409:ASN:O	2.20	0.42
1:r:295:TYR:CE2	1:r:382:GLY:HA3	2.54	0.42
1:r:370:ASP:OD1	1:r:527:MET:HE1	2.20	0.42
1:r:370:ASP:H	1:r:527:MET:HE1	1.83	0.42
1:s:295:TYR:CE2	1:s:382:GLY:HA3	2.54	0.42
1:t:295:TYR:CE2	1:t:382:GLY:HA3	2.54	0.42
1:t:370:ASP:OD1	1:t:527:MET:HE1	2.20	0.42
1:t:433:SER:HA	1:v:287:PRO:O	2.20	0.42
1:u:345:LYS:HE3	1:u:364:ALA:O	2.20	0.42
1:w:161:GLN:NE2	1:w:445:GLY:H	2.16	0.42
1:w:164:ARG:HG3	1:y:485:HIS:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:342:TRP:CH2	1:w:361:VAL:HG22	2.55	0.42
1:w:433:SER:HA	1:y:287:PRO:O	2.20	0.42
1:x:295:TYR:CE2	1:x:382:GLY:HA3	2.54	0.42
1:x:296:LEU:HD13	1:x:322:ALA:HA	2.02	0.42
1:y:342:TRP:CH2	1:y:361:VAL:HG22	2.55	0.42
1:1:374:LEU:HD21	1:1:409:ASN:O	2.20	0.42
1:2:331:GLU:H	1:2:331:GLU:CD	2.27	0.42
1:5:335:ASP:HB3	1:5:368:GLN:NE2	2.35	0.42
1:5:523:THR:HA	1:5:527:MET:SD	2.59	0.42
1:6:335:ASP:HB3	1:6:368:GLN:NE2	2.35	0.42
1:6:345:LYS:HE3	1:6:364:ALA:O	2.20	0.42
1:6:374:LEU:HD23	1:6:529:LYS:HE2	2.02	0.42
1:7:370:ASP:OD1	1:7:527:MET:HE1	2.20	0.42
1:7:523:THR:HA	1:7:527:MET:SD	2.59	0.42
1:A:282:CYS:HB2	1:G:306:LEU:HD22	2.01	0.42
1:A:499:ASP:OD1	1:A:524:ARG:NH2	2.43	0.42
1:D:374:LEU:HD21	1:D:409:ASN:O	2.20	0.42
1:E:374:LEU:HD23	1:E:529:LYS:HE2	2.02	0.42
1:E:433:SER:HA	1:F:287:PRO:O	2.20	0.42
1:E:489:MET:HB2	1:P:495:TYR:HB2	2.01	0.42
1:F:164:ARG:HG3	1:Q:485:HIS:HB2	2.02	0.42
1:H:335:ASP:HB3	1:H:368:GLN:NE2	2.35	0.42
1:H:342:TRP:CH2	1:H:361:VAL:HG22	2.55	0.42
1:I:345:LYS:HE3	1:I:364:ALA:O	2.20	0.42
1:J:296:LEU:HD13	1:J:322:ALA:HA	2.02	0.42
1:J:345:LYS:HE3	1:J:364:ALA:O	2.20	0.42
1:K:282:CYS:HB2	1:a:306:LEU:HD22	2.01	0.42
1:M:291:GLY:HA3	1:M:407:TRP:HB3	2.02	0.42
1:M:370:ASP:OD1	1:M:527:MET:HE1	2.20	0.42
1:N:374:LEU:HD21	1:N:409:ASN:O	2.20	0.42
1:O:212:THR:O	1:O:215:SER:OG	2.35	0.42
1:O:398:TRP:CD1	1:n:399:SER:HA	2.55	0.42
1:P:156:GLN:HA	1:P:226:GLN:O	2.19	0.42
1:S:370:ASP:H	1:S:527:MET:HE1	1.83	0.42
1:S:523:THR:HA	1:S:527:MET:SD	2.59	0.42
1:T:433:SER:HA	1:l:287:PRO:O	2.20	0.42
1:U:374:LEU:HD21	1:U:409:ASN:O	2.20	0.42
1:U:523:THR:HA	1:U:527:MET:SD	2.59	0.42
1:V:398:TRP:CD1	1:X:399:SER:HA	2.55	0.42
1:W:335:ASP:HB3	1:W:368:GLN:NE2	2.35	0.42
1:W:374:LEU:HD23	1:W:529:LYS:HE2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:331:GLU:H	1:X:331:GLU:CD	2.27	0.42
1:X:398:TRP:CD1	1:e:399:SER:HA	2.55	0.42
1:a:287:PRO:O	1:8:433:SER:HA	2.20	0.42
1:a:495:TYR:HB2	1:3:489:MET:HB2	2.01	0.42
1:b:161:GLN:NE2	1:b:445:GLY:H	2.16	0.42
1:c:399:SER:HA	1:o:398:TRP:CD1	2.55	0.42
1:d:287:PRO:O	1:l:433:SER:HA	2.20	0.42
1:d:374:LEU:HD21	1:d:409:ASN:O	2.20	0.42
1:d:399:SER:HA	1:l:398:TRP:CD1	2.55	0.42
1:f:161:GLN:NE2	1:f:445:GLY:H	2.16	0.42
1:f:374:LEU:HD21	1:f:409:ASN:O	2.20	0.42
1:g:291:GLY:HA3	1:g:407:TRP:HB3	2.02	0.42
1:g:335:ASP:HB3	1:g:368:GLN:NE2	2.35	0.42
1:g:345:LYS:HE3	1:g:364:ALA:O	2.20	0.42
1:h:39:ASN:O	1:h:52:TYR:HB3	2.20	0.42
1:h:291:GLY:HA3	1:h:407:TRP:HB3	2.02	0.42
1:h:374:LEU:HD21	1:h:409:ASN:O	2.20	0.42
1:i:489:MET:HB2	1:l:495:TYR:HB2	2.01	0.42
1:j:296:LEU:HD13	1:j:322:ALA:HA	2.02	0.42
1:j:374:LEU:HD21	1:j:409:ASN:O	2.20	0.42
1:l:331:GLU:H	1:l:331:GLU:CD	2.27	0.42
1:m:331:GLU:H	1:m:331:GLU:CD	2.27	0.42
1:o:370:ASP:OD1	1:o:527:MET:HE1	2.20	0.42
1:o:399:SER:HA	1:p:398:TRP:CD1	2.55	0.42
1:p:345:LYS:HE3	1:p:364:ALA:O	2.20	0.42
1:q:164:ARG:HG3	1:s:485:HIS:HB2	2.02	0.42
1:q:295:TYR:CE2	1:q:382:GLY:HA3	2.54	0.42
1:u:287:PRO:O	1:v:433:SER:HA	2.20	0.42
1:u:485:HIS:HB2	1:v:164:ARG:HG3	2.02	0.42
1:v:291:GLY:HA3	1:v:407:TRP:HB3	2.02	0.42
1:x:485:HIS:HB2	1:y:164:ARG:HG3	2.02	0.42
1:y:81:THR:HG23	1:y:84:GLN:CG	2.45	0.42
1:1:156:GLN:HA	1:1:226:GLN:O	2.19	0.42
1:1:399:SER:HA	1:2:398:TRP:CD1	2.55	0.42
1:2:81:THR:HG23	1:2:84:GLN:CG	2.45	0.42
1:2:345:LYS:HE3	1:2:364:ALA:O	2.20	0.42
1:2:489:MET:HB2	1:4:495:TYR:HB2	2.01	0.42
1:3:331:GLU:H	1:3:331:GLU:CD	2.27	0.42
1:4:291:GLY:HA3	1:4:407:TRP:HB3	2.02	0.42
1:4:370:ASP:OD1	1:4:527:MET:HE1	2.20	0.42
1:6:331:GLU:H	1:6:331:GLU:CD	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:374:LEU:HD21	1:A:409:ASN:O	2.20	0.41
1:A:487:TRP:CH2	1:F:181:PRO:HD3	2.55	0.41
1:B:335:ASP:HB3	1:B:368:GLN:NE2	2.34	0.41
1:B:398:TRP:CD1	1:L:399:SER:HA	2.55	0.41
1:C:181:PRO:HD3	1:L:487:TRP:CH2	2.55	0.41
1:C:295:TYR:CE2	1:C:382:GLY:HA3	2.54	0.41
1:C:345:LYS:HE3	1:C:364:ALA:O	2.20	0.41
1:D:287:PRO:O	1:N:433:SER:HA	2.20	0.41
1:D:306:LEU:HD22	1:P:282:CYS:HB2	2.00	0.41
1:D:403:PRO:HD2	1:N:325:MET:SD	2.59	0.41
1:E:39:ASN:O	1:E:52:TYR:HB3	2.20	0.41
1:E:161:GLN:NE2	1:E:445:GLY:H	2.16	0.41
1:E:282:CYS:HB2	1:Q:306:LEU:HD22	2.01	0.41
1:E:399:SER:HA	1:Q:398:TRP:CD1	2.55	0.41
1:F:161:GLN:NE2	1:F:445:GLY:H	2.16	0.41
1:F:374:LEU:HD21	1:F:409:ASN:O	2.20	0.41
1:G:280:ASN:CG	1:I:84:GLN:HB2	2.45	0.41
1:G:295:TYR:CE2	1:G:382:GLY:HA3	2.54	0.41
1:G:296:LEU:HD13	1:G:322:ALA:HA	2.02	0.41
1:H:370:ASP:OD1	1:H:527:MET:HE1	2.20	0.41
1:H:398:TRP:CD1	1:Y:399:SER:HA	2.55	0.41
1:I:374:LEU:HD23	1:I:529:LYS:HE2	2.02	0.41
1:J:81:THR:HG23	1:J:84:GLN:CG	2.45	0.41
1:K:291:GLY:HA3	1:K:407:TRP:HB3	2.02	0.41
1:K:345:LYS:HE3	1:K:364:ALA:O	2.20	0.41
1:M:39:ASN:O	1:M:52:TYR:HB3	2.20	0.41
1:M:331:GLU:H	1:M:331:GLU:CD	2.27	0.41
1:M:374:LEU:HD21	1:M:409:ASN:O	2.20	0.41
1:N:374:LEU:HD23	1:N:529:LYS:HE2	2.02	0.41
1:O:164:ARG:HG3	1:n:485:HIS:HB2	2.02	0.41
1:O:331:GLU:H	1:O:331:GLU:CD	2.27	0.41
1:O:374:LEU:HD23	1:O:529:LYS:HE2	2.02	0.41
1:O:433:SER:HA	1:n:287:PRO:O	2.20	0.41
1:P:296:LEU:HD13	1:P:322:ALA:HA	2.02	0.41
1:P:374:LEU:HD21	1:P:409:ASN:O	2.20	0.41
1:Q:295:TYR:CE2	1:Q:382:GLY:HA3	2.54	0.41
1:R:164:ARG:HG3	1:U:485:HIS:HB2	2.02	0.41
1:R:370:ASP:OD1	1:R:527:MET:HE1	2.20	0.41
1:S:181:PRO:HD3	1:T:487:TRP:CH2	2.55	0.41
1:S:374:LEU:HD23	1:S:529:LYS:HE2	2.02	0.41
1:S:374:LEU:HD21	1:S:409:ASN:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:331:GLU:H	1:T:331:GLU:CD	2.27	0.41
1:X:295:TYR:CE2	1:X:382:GLY:HA3	2.54	0.41
1:Z:374:LEU:HD23	1:Z:529:LYS:HE2	2.02	0.41
1:Z:433:SER:HA	1:3:287:PRO:O	2.20	0.41
1:b:181:PRO:HD3	1:c:487:TRP:CH2	2.55	0.41
1:b:295:TYR:CE2	1:b:382:GLY:HA3	2.54	0.41
1:b:487:TRP:CH2	1:c:181:PRO:HD3	2.55	0.41
1:b:523:THR:HA	1:b:527:MET:SD	2.59	0.41
1:c:342:TRP:CH2	1:c:361:VAL:HG22	2.55	0.41
1:d:485:HIS:HB2	1:l:164:ARG:HG3	2.02	0.41
1:e:342:TRP:CH2	1:e:361:VAL:HG22	2.55	0.41
1:e:487:TRP:CH2	1:f:181:PRO:HD3	2.55	0.41
1:i:325:MET:SD	1:k:403:PRO:HD2	2.59	0.41
1:j:495:TYR:HB2	1:w:489:MET:HB2	2.01	0.41
1:k:374:LEU:HD21	1:k:409:ASN:O	2.20	0.41
1:l:161:GLN:NE2	1:l:445:GLY:H	2.16	0.41
1:l:374:LEU:HD23	1:l:529:LYS:HE2	2.02	0.41
1:m:487:TRP:CH2	1:r:181:PRO:HD3	2.55	0.41
1:o:295:TYR:CE2	1:o:382:GLY:HA3	2.54	0.41
1:q:370:ASP:OD1	1:q:527:MET:HE1	2.20	0.41
1:q:374:LEU:HD23	1:q:529:LYS:HE2	2.02	0.41
1:r:374:LEU:HD21	1:r:409:ASN:O	2.20	0.41
1:r:374:LEU:HD23	1:r:529:LYS:HE2	2.02	0.41
1:s:335:ASP:HB3	1:s:368:GLN:NE2	2.35	0.41
1:t:306:LEU:HD22	1:v:282:CYS:HB2	2.01	0.41
1:t:499:ASP:OD1	1:t:524:ARG:NH2	2.43	0.41
1:u:370:ASP:OD1	1:u:527:MET:HE1	2.20	0.41
1:u:374:LEU:HD23	1:u:529:LYS:HE2	2.02	0.41
1:v:374:LEU:HD21	1:v:409:ASN:O	2.20	0.41
1:w:39:ASN:O	1:w:52:TYR:HB3	2.20	0.41
1:w:374:LEU:HD23	1:w:529:LYS:HE2	2.02	0.41
1:w:399:SER:HA	1:x:398:TRP:CD1	2.55	0.41
1:x:280:ASN:CG	1:y:84:GLN:HB2	2.45	0.41
1:y:161:GLN:NE2	1:y:445:GLY:H	2.16	0.41
1:y:374:LEU:HD21	1:y:409:ASN:O	2.20	0.41
1:z:295:TYR:CE2	1:z:382:GLY:HA3	2.54	0.41
1:2:296:LEU:HD13	1:2:322:ALA:HA	2.02	0.41
1:3:370:ASP:OD1	1:3:527:MET:HE1	2.20	0.41
1:5:370:ASP:OD1	1:5:527:MET:HE1	2.20	0.41
1:5:399:SER:HA	1:6:398:TRP:CD1	2.55	0.41
1:8:374:LEU:HD23	1:8:529:LYS:HE2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:495:TYR:HB2	1:I:489:MET:CB	2.50	0.41
1:B:523:THR:HA	1:B:527:MET:SD	2.59	0.41
1:C:277:LYS:HE3	1:b:80:ASP:O	2.20	0.41
1:C:287:PRO:O	1:b:433:SER:HA	2.20	0.41
1:D:399:SER:HA	1:N:398:TRP:CD1	2.55	0.41
1:E:370:ASP:OD1	1:E:527:MET:HE1	2.20	0.41
1:E:374:LEU:HD21	1:E:409:ASN:O	2.20	0.41
1:E:380:ARG:N	1:Q:313:ALA:O	2.39	0.41
1:F:84:GLN:HB2	1:Q:280:ASN:CG	2.45	0.41
1:F:296:LEU:HD13	1:F:322:ALA:HA	2.02	0.41
1:G:277:LYS:HE3	1:I:80:ASP:O	2.20	0.41
1:G:342:TRP:CH2	1:G:361:VAL:HG22	2.55	0.41
1:G:495:TYR:HB2	1:H:489:MET:CB	2.50	0.41
1:H:295:TYR:CE2	1:H:382:GLY:HA3	2.54	0.41
1:K:39:ASN:O	1:K:52:TYR:HB3	2.20	0.41
1:K:370:ASP:OD1	1:K:527:MET:HE1	2.20	0.41
1:L:291:GLY:HA3	1:L:407:TRP:HB3	2.02	0.41
1:L:295:TYR:CE2	1:L:382:GLY:HA3	2.54	0.41
1:M:156:GLN:HA	1:M:226:GLN:O	2.19	0.41
1:M:398:TRP:CD1	1:b:399:SER:HA	2.55	0.41
1:O:39:ASN:O	1:O:52:TYR:HB3	2.20	0.41
1:O:335:ASP:HB3	1:O:368:GLN:NE2	2.35	0.41
1:O:342:TRP:CH2	1:O:361:VAL:HG22	2.55	0.41
1:O:345:LYS:HE3	1:O:364:ALA:O	2.20	0.41
1:R:295:TYR:CE2	1:R:382:GLY:HA3	2.54	0.41
1:T:84:GLN:HB2	1:l:280:ASN:CG	2.45	0.41
1:T:156:GLN:HA	1:T:226:GLN:O	2.19	0.41
1:U:335:ASP:HB3	1:U:368:GLN:NE2	2.35	0.41
1:V:170:TYR:OH	1:X:285:ARG:O	2.29	0.41
1:V:499:ASP:OD1	1:V:524:ARG:NH2	2.43	0.41
1:X:370:ASP:OD1	1:X:527:MET:HE1	2.20	0.41
1:a:331:GLU:H	1:a:331:GLU:CD	2.27	0.41
1:a:370:ASP:OD1	1:a:527:MET:HE1	2.20	0.41
1:c:39:ASN:O	1:c:52:TYR:HB3	2.20	0.41
1:c:433:SER:HA	1:p:287:PRO:O	2.20	0.41
1:e:181:PRO:HD3	1:f:487:TRP:CH2	2.56	0.41
1:e:345:LYS:HE3	1:e:364:ALA:O	2.20	0.41
1:f:80:ASP:O	1:g:277:LYS:HE3	2.20	0.41
1:f:295:TYR:CE2	1:f:382:GLY:HA3	2.54	0.41
1:f:296:LEU:HD13	1:f:322:ALA:HA	2.02	0.41
1:f:342:TRP:CH2	1:f:361:VAL:HG22	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:433:SER:HA	1:g:287:PRO:O	2.20	0.41
1:g:181:PRO:HD3	1:z:487:TRP:CH2	2.56	0.41
1:g:331:GLU:H	1:g:331:GLU:CD	2.27	0.41
1:g:433:SER:HA	1:h:287:PRO:O	2.20	0.41
1:h:156:GLN:HA	1:h:226:GLN:O	2.19	0.41
1:h:331:GLU:H	1:h:331:GLU:CD	2.27	0.41
1:h:342:TRP:CH2	1:h:361:VAL:HG22	2.55	0.41
1:i:296:LEU:HD13	1:i:322:ALA:HA	2.02	0.41
1:i:374:LEU:HD23	1:i:529:LYS:HE2	2.02	0.41
1:i:398:TRP:CD1	1:k:399:SER:HA	2.55	0.41
1:j:156:GLN:HA	1:j:226:GLN:O	2.19	0.41
1:j:282:CYS:HB2	1:k:306:LEU:HD22	2.00	0.41
1:k:296:LEU:HD13	1:k:322:ALA:HA	2.02	0.41
1:k:374:LEU:HD23	1:k:529:LYS:HE2	2.02	0.41
1:l:335:ASP:HB3	1:l:368:GLN:NE2	2.35	0.41
1:l:342:TRP:CH2	1:l:361:VAL:HG22	2.55	0.41
1:l:345:LYS:HE3	1:l:364:ALA:O	2.20	0.41
1:m:156:GLN:HA	1:m:226:GLN:O	2.19	0.41
1:m:342:TRP:CH2	1:m:361:VAL:HG22	2.55	0.41
1:p:296:LEU:HD13	1:p:322:ALA:HA	2.02	0.41
1:p:374:LEU:HD23	1:p:529:LYS:HE2	2.02	0.41
1:q:489:MET:HB2	1:x:495:TYR:HB2	2.01	0.41
1:r:523:THR:HA	1:r:527:MET:SD	2.59	0.41
1:t:280:ASN:CG	1:u:84:GLN:HB2	2.45	0.41
1:t:296:LEU:HD13	1:t:322:ALA:HA	2.02	0.41
1:t:489:MET:CB	1:5:495:TYR:HB2	2.50	0.41
1:v:374:LEU:HD23	1:v:529:LYS:HE2	2.02	0.41
1:v:487:TRP:CH2	1:y:181:PRO:HD3	2.55	0.41
1:y:345:LYS:HE3	1:y:364:ALA:O	2.20	0.41
1:z:291:GLY:HA3	1:z:407:TRP:HB3	2.02	0.41
1:2:39:ASN:O	1:2:52:TYR:HB3	2.20	0.41
1:3:306:LEU:HD22	1:4:282:CYS:HB2	2.01	0.41
1:3:523:THR:HA	1:3:527:MET:SD	2.59	0.41
1:4:39:ASN:O	1:4:52:TYR:HB3	2.20	0.41
1:5:295:TYR:CE2	1:5:382:GLY:HA3	2.54	0.41
1:7:39:ASN:O	1:7:52:TYR:HB3	2.20	0.41
1:A:374:LEU:HD23	1:A:529:LYS:HE2	2.02	0.41
1:B:156:GLN:HG2	1:B:227:MET:HG2	2.03	0.41
1:B:164:ARG:HG3	1:L:485:HIS:HB2	2.02	0.41
1:B:485:HIS:HB2	1:J:164:ARG:HG3	2.02	0.41
1:C:398:TRP:CD1	1:M:399:SER:HA	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:433:SER:HA	1:M:287:PRO:O	2.20	0.41
1:D:39:ASN:O	1:D:52:TYR:HB3	2.20	0.41
1:D:296:LEU:HD13	1:D:322:ALA:HA	2.02	0.41
1:E:398:TRP:CD1	1:F:399:SER:HA	2.55	0.41
1:E:495:TYR:HB2	1:P:489:MET:CB	2.50	0.41
1:F:81:THR:HG23	1:F:84:GLN:CG	2.45	0.41
1:H:399:SER:HA	1:W:398:TRP:CD1	2.55	0.41
1:J:39:ASN:O	1:J:52:TYR:HB3	2.20	0.41
1:J:342:TRP:CH2	1:J:361:VAL:HG22	2.55	0.41
1:J:489:MET:HB2	1:K:495:TYR:HB2	2.01	0.41
1:K:280:ASN:CG	1:a:84:GLN:HB2	2.46	0.41
1:K:335:ASP:HB3	1:K:368:GLN:NE2	2.35	0.41
1:M:164:ARG:HG3	1:b:485:HIS:HB2	2.02	0.41
1:M:342:TRP:CH2	1:M:361:VAL:HG22	2.55	0.41
1:N:181:PRO:HD3	1:O:487:TRP:CH2	2.56	0.41
1:N:296:LEU:HD13	1:N:322:ALA:HA	2.02	0.41
1:O:280:ASN:CG	1:m:84:GLN:HB2	2.45	0.41
1:P:331:GLU:CD	1:P:331:GLU:H	2.27	0.41
1:Q:342:TRP:CH2	1:Q:361:VAL:HG22	2.55	0.41
1:T:170:TYR:OH	1:l:285:ARG:O	2.29	0.41
1:T:342:TRP:CH2	1:T:361:VAL:HG22	2.55	0.41
1:V:287:PRO:O	1:e:433:SER:HA	2.20	0.41
1:V:296:LEU:HD13	1:V:322:ALA:HA	2.02	0.41
1:V:374:LEU:HD23	1:V:529:LYS:HE2	2.02	0.41
1:W:181:PRO:HD3	1:X:487:TRP:CH2	2.56	0.41
1:W:342:TRP:CH2	1:W:361:VAL:HG22	2.55	0.41
1:W:495:TYR:HB2	1:X:489:MET:CB	2.51	0.41
1:Y:39:ASN:O	1:Y:52:TYR:HB3	2.20	0.41
1:b:296:LEU:HD13	1:b:322:ALA:HA	2.02	0.41
1:b:342:TRP:CH2	1:b:361:VAL:HG22	2.55	0.41
1:c:84:GLN:HB2	1:p:280:ASN:CG	2.45	0.41
1:c:280:ASN:CG	1:o:84:GLN:HB2	2.46	0.41
1:c:335:ASP:HB3	1:c:368:GLN:NE2	2.34	0.41
1:c:345:LYS:HE3	1:c:364:ALA:O	2.20	0.41
1:c:370:ASP:OD1	1:c:527:MET:HE1	2.20	0.41
1:e:39:ASN:O	1:e:52:TYR:HB3	2.20	0.41
1:f:287:PRO:O	1:h:433:SER:HA	2.20	0.41
1:f:399:SER:HA	1:h:398:TRP:CD1	2.55	0.41
1:g:398:TRP:CD1	1:h:399:SER:HA	2.55	0.41
1:i:181:PRO:HD3	1:l:487:TRP:CH2	2.56	0.41
1:i:335:ASP:HB3	1:i:368:GLN:NE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:499:ASP:OD1	1:i:524:ARG:NH2	2.43	0.41
1:k:39:ASN:O	1:k:52:TYR:HB3	2.20	0.41
1:l:39:ASN:O	1:l:52:TYR:HB3	2.20	0.41
1:o:277:LYS:HE3	1:p:80:ASP:O	2.20	0.41
1:o:489:MET:CB	1:6:495:TYR:HB2	2.51	0.41
1:p:181:PRO:HD3	1:s:487:TRP:CH2	2.55	0.41
1:r:296:LEU:HD13	1:r:322:ALA:HA	2.02	0.41
1:t:277:LYS:HE3	1:u:80:ASP:O	2.21	0.41
1:t:342:TRP:CH2	1:t:361:VAL:HG22	2.55	0.41
1:u:296:LEU:HD13	1:u:322:ALA:HA	2.02	0.41
1:v:489:MET:HB2	1:y:495:TYR:HB2	2.01	0.41
1:w:280:ASN:CG	1:x:84:GLN:HB2	2.45	0.41
1:w:282:CYS:HB2	1:x:306:LEU:HD22	2.01	0.41
1:w:370:ASP:OD1	1:w:527:MET:HE1	2.20	0.41
1:w:374:LEU:HD21	1:w:409:ASN:O	2.20	0.41
1:x:287:PRO:O	1:y:433:SER:HA	2.20	0.41
1:y:168:LEU:N	1:y:446:HIS:HE1	2.10	0.41
1:y:296:LEU:HD13	1:y:322:ALA:HA	2.02	0.41
1:z:370:ASP:OD1	1:z:527:MET:HE1	2.20	0.41
1:z:398:TRP:CD1	1:2:399:SER:HA	2.55	0.41
1:1:335:ASP:HB3	1:1:368:GLN:NE2	2.35	0.41
1:1:523:THR:HA	1:1:527:MET:SD	2.59	0.41
1:2:342:TRP:CH2	1:2:361:VAL:HG22	2.55	0.41
1:3:84:GLN:HB2	1:4:280:ASN:CG	2.46	0.41
1:4:345:LYS:HE3	1:4:364:ALA:O	2.20	0.41
1:5:398:TRP:CD1	1:7:399:SER:HA	2.55	0.41
1:6:287:PRO:O	1:7:433:SER:HA	2.20	0.41
1:6:342:TRP:CH2	1:6:361:VAL:HG22	2.55	0.41
1:8:345:LYS:HE3	1:8:364:ALA:O	2.20	0.41
1:A:181:PRO:HD3	1:F:487:TRP:CH2	2.55	0.41
1:A:489:MET:HB2	1:F:495:TYR:HB2	2.01	0.41
1:C:84:GLN:HB2	1:M:280:ASN:CG	2.45	0.41
1:C:331:GLU:CD	1:C:331:GLU:H	2.27	0.41
1:D:84:GLN:HB2	1:P:280:ASN:CG	2.46	0.41
1:D:374:LEU:HD23	1:D:529:LYS:HE2	2.02	0.41
1:E:295:TYR:CE2	1:E:382:GLY:HA3	2.54	0.41
1:F:168:LEU:N	1:F:446:HIS:HE1	2.10	0.41
1:F:295:TYR:CE2	1:F:382:GLY:HA3	2.54	0.41
1:F:345:LYS:HE3	1:F:364:ALA:O	2.20	0.41
1:F:433:SER:HA	1:Q:287:PRO:O	2.20	0.41
1:G:399:SER:HA	1:I:398:TRP:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:164:ARG:HG3	1:Y:485:HIS:HB2	2.02	0.41
1:I:291:GLY:HA3	1:I:407:TRP:HB3	2.02	0.41
1:I:295:TYR:CE2	1:I:382:GLY:HA3	2.54	0.41
1:I:296:LEU:HD13	1:I:322:ALA:HA	2.02	0.41
1:J:399:SER:HA	1:L:398:TRP:CD1	2.55	0.41
1:K:374:LEU:HD21	1:K:409:ASN:O	2.20	0.41
1:L:370:ASP:OD1	1:L:527:MET:HE1	2.20	0.41
1:L:374:LEU:HD23	1:L:529:LYS:HE2	2.02	0.41
1:M:433:SER:HA	1:b:287:PRO:O	2.20	0.41
1:N:335:ASP:HB3	1:N:368:GLN:NE2	2.35	0.41
1:N:342:TRP:CH2	1:N:361:VAL:HG22	2.55	0.41
1:N:495:TYR:HB2	1:O:489:MET:HB2	2.01	0.41
1:N:499:ASP:OD1	1:N:524:ARG:NH2	2.43	0.41
1:Q:499:ASP:OD1	1:Q:524:ARG:NH2	2.43	0.41
1:R:84:GLN:HB2	1:U:280:ASN:CG	2.46	0.41
1:R:287:PRO:O	1:S:433:SER:HA	2.20	0.41
1:S:342:TRP:CH2	1:S:361:VAL:HG22	2.55	0.41
1:U:374:LEU:HD23	1:U:529:LYS:HE2	2.02	0.41
1:V:80:ASP:O	1:X:277:LYS:HE3	2.20	0.41
1:V:280:ASN:CG	1:e:84:GLN:HB2	2.45	0.41
1:W:287:PRO:O	1:Y:433:SER:HA	2.20	0.41
1:X:80:ASP:O	1:e:277:LYS:HE3	2.21	0.41
1:X:84:GLN:HB2	1:e:280:ASN:CG	2.46	0.41
1:X:342:TRP:CH2	1:X:361:VAL:HG22	2.55	0.41
1:Z:345:LYS:HE3	1:Z:364:ALA:O	2.20	0.41
1:a:399:SER:HA	1:8:398:TRP:CD1	2.55	0.41
1:a:523:THR:HA	1:a:527:MET:SD	2.59	0.41
1:c:80:ASP:O	1:p:277:LYS:HE3	2.20	0.41
1:c:277:LYS:HE3	1:o:80:ASP:O	2.21	0.41
1:e:370:ASP:OD1	1:e:527:MET:HE1	2.20	0.41
1:f:345:LYS:HE3	1:f:364:ALA:O	2.20	0.41
1:f:485:HIS:HB2	1:h:164:ARG:HG3	2.02	0.41
1:f:523:THR:HA	1:f:527:MET:SD	2.59	0.41
1:g:84:GLN:HB2	1:h:280:ASN:CG	2.45	0.41
1:i:342:TRP:CH2	1:i:361:VAL:HG22	2.55	0.41
1:i:428:GLN:O	1:k:430:LYS:NZ	2.40	0.41
1:i:495:TYR:HB2	1:l:489:MET:HB2	2.01	0.41
1:j:280:ASN:CG	1:k:84:GLN:HB2	2.46	0.41
1:j:489:MET:CB	1:w:495:TYR:HB2	2.50	0.41
1:k:345:LYS:HE3	1:k:364:ALA:O	2.20	0.41
1:o:342:TRP:CH2	1:o:361:VAL:HG22	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:487:TRP:CH2	1:6:181:PRO:HD3	2.56	0.41
1:o:495:TYR:HB2	1:6:489:MET:CB	2.51	0.41
1:q:84:GLN:HB2	1:s:280:ASN:CG	2.46	0.41
1:q:287:PRO:O	1:r:433:SER:HA	2.20	0.41
1:q:398:TRP:CD1	1:s:399:SER:HA	2.55	0.41
1:r:342:TRP:CH2	1:r:361:VAL:HG22	2.55	0.41
1:t:399:SER:HA	1:u:398:TRP:CD1	2.55	0.41
1:t:485:HIS:HB2	1:u:164:ARG:HG3	2.02	0.41
1:t:489:MET:HB2	1:5:495:TYR:HB2	2.01	0.41
1:u:181:PRO:HD3	1:1:487:TRP:CH2	2.56	0.41
1:u:291:GLY:HA3	1:u:407:TRP:HB3	2.02	0.41
1:u:295:TYR:CE2	1:u:382:GLY:HA3	2.54	0.41
1:v:39:ASN:O	1:v:52:TYR:HB3	2.20	0.41
1:w:295:TYR:CE2	1:w:382:GLY:HA3	2.54	0.41
1:w:380:ARG:N	1:x:313:ALA:O	2.39	0.41
1:w:398:TRP:CD1	1:y:399:SER:HA	2.55	0.41
1:x:342:TRP:CH2	1:x:361:VAL:HG22	2.55	0.41
1:1:156:GLN:HG2	1:1:227:MET:HG2	2.03	0.41
1:1:342:TRP:CH2	1:1:361:VAL:HG22	2.55	0.41
1:2:212:THR:O	1:2:215:SER:OG	2.35	0.41
1:3:374:LEU:HD23	1:3:529:LYS:HE2	2.02	0.41
1:6:291:GLY:HA3	1:6:407:TRP:HB3	2.02	0.41
1:A:80:ASP:O	1:I:277:LYS:HE3	2.20	0.41
1:B:296:LEU:HD13	1:B:322:ALA:HA	2.02	0.41
1:B:313:ALA:O	1:L:380:ARG:N	2.38	0.41
1:B:342:TRP:CH2	1:B:361:VAL:HG22	2.55	0.41
1:C:280:ASN:CG	1:b:84:GLN:HB2	2.45	0.41
1:D:291:GLY:HA3	1:D:407:TRP:HB3	2.02	0.41
1:D:342:TRP:CH2	1:D:361:VAL:HG22	2.55	0.41
1:F:120:ARG:NE	1:F:480:GLU:OE1	2.54	0.41
1:F:313:ALA:O	1:Q:380:ARG:N	2.39	0.41
1:G:181:PRO:HD3	1:H:487:TRP:CH2	2.56	0.41
1:G:485:HIS:HB2	1:I:164:ARG:HG3	2.02	0.41
1:G:487:TRP:CH2	1:H:181:PRO:HD3	2.56	0.41
1:H:277:LYS:HE3	1:W:80:ASP:O	2.21	0.41
1:H:374:LEU:HD21	1:H:409:ASN:O	2.20	0.41
1:K:277:LYS:HE3	1:a:80:ASP:O	2.21	0.41
1:K:342:TRP:CH2	1:K:361:VAL:HG22	2.55	0.41
1:L:39:ASN:O	1:L:52:TYR:HB3	2.20	0.41
1:M:335:ASP:HB3	1:M:368:GLN:NE2	2.35	0.41
1:M:499:ASP:OD1	1:M:524:ARG:NH2	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:495:TYR:HB2	1:R:489:MET:HB2	2.01	0.41
1:R:39:ASN:O	1:R:52:TYR:HB3	2.20	0.41
1:R:331:GLU:H	1:R:331:GLU:CD	2.27	0.41
1:R:398:TRP:CD1	1:U:399:SER:HA	2.55	0.41
1:R:485:HIS:HB2	1:S:164:ARG:HG3	2.02	0.41
1:S:489:MET:HB2	1:T:495:TYR:HB2	2.01	0.41
1:T:161:GLN:NE2	1:T:445:GLY:H	2.16	0.41
1:U:487:TRP:CH2	1:V:181:PRO:HD3	2.56	0.41
1:U:495:TYR:HB2	1:V:489:MET:HB2	2.01	0.41
1:V:277:LYS:HE3	1:e:80:ASP:O	2.20	0.41
1:W:280:ASN:CG	1:Y:84:GLN:HB2	2.46	0.41
1:W:489:MET:CB	1:X:495:TYR:HB2	2.51	0.41
1:Y:156:GLN:HG2	1:Y:227:MET:HG2	2.03	0.41
1:Z:80:ASP:O	1:3:277:LYS:HE3	2.21	0.41
1:Z:161:GLN:NE2	1:Z:445:GLY:H	2.16	0.41
1:Z:398:TRP:CD1	1:3:399:SER:HA	2.55	0.41
1:a:374:LEU:HD23	1:a:529:LYS:HE2	2.02	0.41
1:b:489:MET:HB2	1:c:495:TYR:HB2	2.01	0.41
1:d:156:GLN:HG2	1:d:227:MET:HG2	2.03	0.41
1:e:335:ASP:HB3	1:e:368:GLN:NE2	2.34	0.41
1:e:495:TYR:HB2	1:f:489:MET:HB2	2.01	0.41
1:f:84:GLN:HB2	1:g:280:ASN:CG	2.46	0.41
1:j:331:GLU:H	1:j:331:GLU:CD	2.27	0.41
1:k:342:TRP:CH2	1:k:361:VAL:HG22	2.55	0.41
1:m:495:TYR:HB2	1:r:489:MET:HB2	2.01	0.41
1:n:156:GLN:HG2	1:n:227:MET:HG2	2.03	0.41
1:n:291:GLY:HA3	1:n:407:TRP:HB3	2.02	0.41
1:n:374:LEU:HD23	1:n:529:LYS:HE2	2.02	0.41
1:o:291:GLY:HA3	1:o:407:TRP:HB3	2.02	0.41
1:o:345:LYS:HE3	1:o:364:ALA:O	2.20	0.41
1:o:485:HIS:HB2	1:p:164:ARG:HG3	2.02	0.41
1:p:161:GLN:NE2	1:p:445:GLY:H	2.16	0.41
1:p:489:MET:HB2	1:s:495:TYR:HB2	2.01	0.41
1:p:499:ASP:OD1	1:p:524:ARG:NH2	2.43	0.41
1:q:331:GLU:H	1:q:331:GLU:CD	2.27	0.41
1:r:161:GLN:NE2	1:r:445:GLY:H	2.16	0.41
1:s:374:LEU:HD23	1:s:529:LYS:HE2	2.02	0.41
1:v:181:PRO:HD3	1:y:487:TRP:CH2	2.55	0.41
1:v:499:ASP:OD1	1:v:524:ARG:NH2	2.43	0.41
1:y:120:ARG:NE	1:y:480:GLU:OE1	2.54	0.41
1:y:295:TYR:CE2	1:y:382:GLY:HA3	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:277:LYS:HE3	1:1:80:ASP:O	2.21	0.41
1:z:374:LEU:HD23	1:z:529:LYS:HE2	2.02	0.41
1:2:291:GLY:HA3	1:2:407:TRP:HB3	2.02	0.41
1:3:39:ASN:O	1:3:52:TYR:HB3	2.20	0.41
1:4:335:ASP:HB3	1:4:368:GLN:NE2	2.35	0.41
1:4:342:TRP:CH2	1:4:361:VAL:HG22	2.55	0.41
1:4:374:LEU:HD21	1:4:409:ASN:O	2.20	0.41
1:5:374:LEU:HD21	1:5:409:ASN:O	2.20	0.41
1:6:39:ASN:O	1:6:52:TYR:HB3	2.20	0.41
1:7:156:GLN:HG2	1:7:227:MET:HG2	2.03	0.41
1:A:39:ASN:O	1:A:52:TYR:HB3	2.20	0.41
1:A:398:TRP:CD1	1:I:399:SER:HA	2.55	0.41
1:B:80:ASP:O	1:L:277:LYS:HE3	2.21	0.41
1:B:120:ARG:NE	1:B:480:GLU:OE1	2.54	0.41
1:B:374:LEU:HD23	1:B:529:LYS:HE2	2.02	0.41
1:C:156:GLN:HG2	1:C:227:MET:HG2	2.03	0.41
1:D:181:PRO:HD3	1:M:487:TRP:CH2	2.56	0.41
1:D:345:LYS:HE3	1:D:364:ALA:O	2.20	0.41
1:E:80:ASP:O	1:F:277:LYS:HE3	2.21	0.41
1:E:277:LYS:HE3	1:Q:80:ASP:O	2.20	0.41
1:E:280:ASN:CG	1:Q:84:GLN:HB2	2.45	0.41
1:F:156:GLN:HG2	1:F:227:MET:HG2	2.03	0.41
1:G:374:LEU:HD21	1:G:409:ASN:O	2.20	0.41
1:G:489:MET:HB2	1:H:495:TYR:HB2	2.01	0.41
1:G:489:MET:CB	1:H:495:TYR:HB2	2.51	0.41
1:J:212:THR:O	1:J:215:SER:OG	2.35	0.41
1:J:287:PRO:O	1:L:433:SER:HA	2.20	0.41
1:J:291:GLY:HA3	1:J:407:TRP:HB3	2.02	0.41
1:J:370:ASP:OD1	1:J:527:MET:HE1	2.20	0.41
1:J:374:LEU:HD21	1:J:409:ASN:O	2.20	0.41
1:K:296:LEU:HD13	1:K:322:ALA:HA	2.02	0.41
1:N:489:MET:CB	1:O:495:TYR:HB2	2.51	0.41
1:O:120:ARG:NE	1:O:480:GLU:OE1	2.54	0.41
1:O:156:GLN:HG2	1:O:227:MET:HG2	2.03	0.41
1:Q:120:ARG:NE	1:Q:480:GLU:OE1	2.54	0.41
1:R:277:LYS:HE3	1:S:80:ASP:O	2.21	0.41
1:R:280:ASN:CG	1:S:84:GLN:HB2	2.46	0.41
1:S:161:GLN:NE2	1:S:445:GLY:H	2.16	0.41
1:S:285:ARG:NH2	1:U:335:ASP:O	2.45	0.41
1:S:296:LEU:HD13	1:S:322:ALA:HA	2.02	0.41
1:T:277:LYS:HE3	1:d:80:ASP:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:374:LEU:HD21	1:T:409:ASN:O	2.20	0.41
1:U:489:MET:CB	1:V:495:TYR:HB2	2.51	0.41
1:U:499:ASP:CG	1:U:524:ARG:HH12	2.29	0.41
1:V:161:GLN:NE2	1:V:445:GLY:H	2.16	0.41
1:W:39:ASN:O	1:W:52:TYR:HB3	2.20	0.41
1:W:277:LYS:HE3	1:Y:80:ASP:O	2.21	0.41
1:W:291:GLY:HA3	1:W:407:TRP:HB3	2.02	0.41
1:W:374:LEU:HD21	1:W:409:ASN:O	2.20	0.41
1:X:156:GLN:HG2	1:X:227:MET:HG2	2.03	0.41
1:X:291:GLY:HA3	1:X:407:TRP:HB3	2.02	0.41
1:X:345:LYS:HE3	1:X:364:ALA:O	2.20	0.41
1:Y:342:TRP:CH2	1:Y:361:VAL:HG22	2.55	0.41
1:a:39:ASN:O	1:a:52:TYR:HB3	2.20	0.41
1:a:156:GLN:HG2	1:a:227:MET:HG2	2.03	0.41
1:a:277:LYS:HE3	1:8:80:ASP:O	2.21	0.41
1:a:485:HIS:HB2	1:8:164:ARG:HG3	2.02	0.41
1:b:345:LYS:HE3	1:b:364:ALA:O	2.20	0.41
1:b:489:MET:CB	1:c:495:TYR:HB2	2.51	0.41
1:d:291:GLY:HA3	1:d:407:TRP:HB3	2.02	0.41
1:d:374:LEU:HD23	1:d:529:LYS:HE2	2.02	0.41
1:e:495:TYR:HB2	1:f:489:MET:CB	2.51	0.41
1:g:156:GLN:HG2	1:g:227:MET:HG2	2.03	0.41
1:g:342:TRP:CH2	1:g:361:VAL:HG22	2.55	0.41
1:g:487:TRP:CH2	1:z:181:PRO:HD3	2.55	0.41
1:h:487:TRP:CH2	1:k:181:PRO:HD3	2.56	0.41
1:i:170:TYR:OH	1:k:285:ARG:O	2.30	0.41
1:l:120:ARG:NE	1:l:480:GLU:OE1	2.54	0.41
1:l:156:GLN:HG2	1:l:227:MET:HG2	2.03	0.41
1:m:277:LYS:HE3	1:n:80:ASP:O	2.21	0.41
1:m:374:LEU:HD21	1:m:409:ASN:O	2.20	0.41
1:q:39:ASN:O	1:q:52:TYR:HB3	2.20	0.41
1:q:277:LYS:HE3	1:r:80:ASP:O	2.21	0.41
1:q:485:HIS:HB2	1:r:164:ARG:HG3	2.02	0.41
1:q:489:MET:CB	1:x:495:TYR:HB2	2.51	0.41
1:r:399:SER:HA	1:s:398:TRP:CD1	2.55	0.41
1:s:499:ASP:CG	1:s:524:ARG:HH12	2.29	0.41
1:t:168:LEU:N	1:t:446:HIS:HE1	2.10	0.41
1:u:39:ASN:O	1:u:52:TYR:HB3	2.20	0.41
1:u:277:LYS:HE3	1:v:80:ASP:O	2.20	0.41
1:u:280:ASN:CG	1:v:84:GLN:HB2	2.45	0.41
1:v:342:TRP:CH2	1:v:361:VAL:HG22	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:277:LYS:HE3	1:x:80:ASP:O	2.20	0.41
1:x:120:ARG:NE	1:x:480:GLU:OE1	2.54	0.41
1:y:156:GLN:HG2	1:y:227:MET:HG2	2.03	0.41
1:z:380:ARG:N	1:1:313:ALA:O	2.39	0.41
1:z:399:SER:HA	1:1:398:TRP:CD1	2.55	0.41
1:z:433:SER:HA	1:2:287:PRO:O	2.20	0.41
1:1:277:LYS:HE3	1:2:80:ASP:O	2.21	0.41
1:1:296:LEU:HD13	1:1:322:ALA:HA	2.02	0.41
1:1:374:LEU:HD23	1:1:529:LYS:HE2	2.02	0.41
1:2:370:ASP:OD1	1:2:527:MET:HE1	2.20	0.41
1:2:374:LEU:HD21	1:2:409:ASN:O	2.20	0.41
1:3:80:ASP:O	1:4:277:LYS:HE3	2.21	0.41
1:3:156:GLN:HG2	1:3:227:MET:HG2	2.03	0.41
1:3:296:LEU:HD13	1:3:322:ALA:HA	2.02	0.41
1:6:277:LYS:HE3	1:7:80:ASP:O	2.21	0.41
1:6:280:ASN:CG	1:7:84:GLN:HB2	2.46	0.41
1:6:374:LEU:HD21	1:6:409:ASN:O	2.20	0.41
1:A:84:GLN:HB2	1:I:280:ASN:CG	2.46	0.41
1:A:342:TRP:CH2	1:A:361:VAL:HG22	2.55	0.41
1:A:370:ASP:OD1	1:A:527:MET:HE1	2.20	0.41
1:C:120:ARG:NE	1:C:480:GLU:OE1	2.54	0.41
1:C:342:TRP:CH2	1:C:361:VAL:HG22	2.55	0.41
1:C:487:TRP:CH2	1:L:181:PRO:HD3	2.55	0.41
1:D:80:ASP:O	1:P:277:LYS:HE3	2.21	0.41
1:D:164:ARG:HG3	1:P:485:HIS:HB2	2.02	0.41
1:E:487:TRP:CH2	1:P:181:PRO:HD3	2.56	0.41
1:F:335:ASP:HB3	1:F:368:GLN:NE2	2.35	0.41
1:G:168:LEU:N	1:G:446:HIS:HE1	2.10	0.41
1:G:380:ARG:N	1:I:313:ALA:O	2.39	0.41
1:I:39:ASN:O	1:I:52:TYR:HB3	2.20	0.41
1:I:342:TRP:CH2	1:I:361:VAL:HG22	2.55	0.41
1:K:84:GLN:HB2	1:8:280:ASN:CG	2.45	0.41
1:L:342:TRP:CH2	1:L:361:VAL:HG22	2.55	0.41
1:O:81:THR:HG23	1:O:84:GLN:CG	2.45	0.41
1:O:296:LEU:HD13	1:O:322:ALA:HA	2.02	0.41
1:O:374:LEU:HD21	1:O:409:ASN:O	2.20	0.41
1:R:323:PRO:HG2	1:R:434:GLN:HB3	2.03	0.41
1:R:399:SER:HA	1:S:398:TRP:CD1	2.55	0.41
1:S:39:ASN:O	1:S:52:TYR:HB3	2.20	0.41
1:T:323:PRO:HG2	1:T:434:GLN:HB3	2.03	0.41
1:X:164:ARG:HG3	1:e:485:HIS:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:335:ASP:HB3	1:Y:368:GLN:NE2	2.35	0.41
1:Y:489:MET:CB	1:Z:495:TYR:HB2	2.51	0.41
1:Z:84:GLN:HB2	1:3:280:ASN:CG	2.46	0.41
1:Z:164:ARG:HG3	1:3:485:HIS:HB2	2.02	0.41
1:Z:280:ASN:CG	1:4:84:GLN:HB2	2.45	0.41
1:a:280:ASN:CG	1:8:84:GLN:HB2	2.46	0.41
1:c:291:GLY:HA3	1:c:407:TRP:HB3	2.02	0.41
1:e:291:GLY:HA3	1:e:407:TRP:HB3	2.02	0.41
1:g:489:MET:CB	1:z:495:TYR:HB2	2.51	0.41
1:h:181:PRO:HD3	1:k:487:TRP:CH2	2.56	0.41
1:h:335:ASP:HB3	1:h:368:GLN:NE2	2.35	0.41
1:i:489:MET:CB	1:l:495:TYR:HB2	2.51	0.41
1:j:277:LYS:HE3	1:k:80:ASP:O	2.21	0.41
1:j:485:HIS:HB2	1:k:164:ARG:HG3	2.02	0.41
1:k:291:GLY:HA3	1:k:407:TRP:HB3	2.02	0.41
1:m:161:GLN:NE2	1:m:445:GLY:H	2.16	0.41
1:m:323:PRO:HG2	1:m:434:GLN:HB3	2.03	0.41
1:o:156:GLN:HG2	1:o:227:MET:HG2	2.03	0.41
1:p:495:TYR:HB2	1:s:489:MET:CB	2.51	0.41
1:q:280:ASN:CG	1:r:84:GLN:HB2	2.46	0.41
1:q:399:SER:HA	1:r:398:TRP:CD1	2.55	0.41
1:t:181:PRO:HD3	1:5:487:TRP:CH2	2.56	0.41
1:t:374:LEU:HD21	1:t:409:ASN:O	2.20	0.41
1:u:161:GLN:NE2	1:u:445:GLY:H	2.16	0.41
1:u:374:LEU:HD21	1:u:409:ASN:O	2.20	0.41
1:u:399:SER:HA	1:v:398:TRP:CD1	2.55	0.41
1:w:80:ASP:O	1:y:277:LYS:HE3	2.21	0.41
1:y:323:PRO:HG2	1:y:434:GLN:HB3	2.03	0.41
1:z:39:ASN:O	1:z:52:TYR:HB3	2.20	0.41
1:z:156:GLN:HG2	1:z:227:MET:HG2	2.03	0.41
1:z:335:ASP:HB3	1:z:368:GLN:NE2	2.35	0.41
1:z:342:TRP:CH2	1:z:361:VAL:HG22	2.55	0.41
1:1:120:ARG:NE	1:1:480:GLU:OE1	2.54	0.41
1:4:296:LEU:HD13	1:4:322:ALA:HA	2.02	0.41
1:4:499:ASP:CG	1:4:524:ARG:HH12	2.29	0.41
1:5:264:TYR:OH	1:6:188:PRO:HA	2.21	0.41
1:6:296:LEU:HD13	1:6:322:ALA:HA	2.02	0.41
1:7:291:GLY:HA3	1:7:407:TRP:HB3	2.02	0.41
1:7:342:TRP:CH2	1:7:361:VAL:HG22	2.55	0.41
1:7:489:MET:CB	1:8:495:TYR:HB2	2.51	0.41
1:A:156:GLN:HG2	1:A:227:MET:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:280:ASN:CG	1:G:84:GLN:HB2	2.46	0.41
1:A:495:TYR:HB2	1:F:489:MET:CB	2.51	0.41
1:C:489:MET:CB	1:L:495:TYR:HB2	2.51	0.41
1:C:495:TYR:HB2	1:L:489:MET:CB	2.51	0.41
1:D:285:ARG:O	1:N:170:TYR:OH	2.30	0.41
1:D:485:HIS:HB2	1:N:164:ARG:HG3	2.03	0.41
1:D:487:TRP:CH2	1:M:181:PRO:HD3	2.56	0.41
1:D:495:TYR:HB2	1:M:489:MET:CB	2.51	0.41
1:E:181:PRO:HD3	1:P:487:TRP:CH2	2.56	0.41
1:E:296:LEU:HD13	1:E:322:ALA:HA	2.02	0.41
1:F:323:PRO:HG2	1:F:434:GLN:HB3	2.03	0.41
1:F:398:TRP:CD1	1:Q:399:SER:HA	2.55	0.41
1:H:39:ASN:O	1:H:52:TYR:HB3	2.20	0.41
1:I:374:LEU:HD21	1:I:409:ASN:O	2.20	0.41
1:K:323:PRO:HG2	1:K:434:GLN:HB3	2.03	0.41
1:K:499:ASP:CG	1:K:524:ARG:HH12	2.29	0.41
1:L:156:GLN:HG2	1:L:227:MET:HG2	2.03	0.41
1:L:335:ASP:HB3	1:L:368:GLN:NE2	2.35	0.41
1:L:499:ASP:OD1	1:L:524:ARG:NH2	2.43	0.41
1:O:291:GLY:HA3	1:O:407:TRP:HB3	2.02	0.41
1:P:120:ARG:NE	1:P:480:GLU:OE1	2.54	0.41
1:Q:156:GLN:HG2	1:Q:227:MET:HG2	2.03	0.41
1:Q:181:PRO:HD3	1:R:487:TRP:CH2	2.56	0.41
1:Q:234:TRP:CH2	1:Q:236:THR:HB	2.56	0.41
1:Q:487:TRP:CH2	1:R:181:PRO:HD3	2.56	0.41
1:Q:489:MET:CB	1:R:495:TYR:HB2	2.51	0.41
1:Q:495:TYR:HB2	1:R:489:MET:CB	2.51	0.41
1:R:156:GLN:HG2	1:R:227:MET:HG2	2.03	0.41
1:R:290:PRO:O	1:R:383:TYR:OH	2.39	0.41
1:R:313:ALA:O	1:U:380:ARG:N	2.39	0.41
1:S:277:LYS:HE3	1:U:80:ASP:O	2.21	0.41
1:S:280:ASN:CG	1:U:84:GLN:HB2	2.46	0.41
1:S:287:PRO:O	1:U:433:SER:HA	2.20	0.41
1:S:399:SER:HA	1:U:398:TRP:CD1	2.55	0.41
1:U:120:ARG:NE	1:U:480:GLU:OE1	2.54	0.41
1:U:342:TRP:CH2	1:U:361:VAL:HG22	2.55	0.41
1:V:39:ASN:O	1:V:52:TYR:HB3	2.20	0.41
1:V:156:GLN:HG2	1:V:227:MET:HG2	2.03	0.41
1:V:164:ARG:HG3	1:X:485:HIS:HB2	2.03	0.41
1:V:285:ARG:NH2	1:e:335:ASP:O	2.45	0.41
1:V:399:SER:HA	1:e:398:TRP:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:499:ASP:CG	1:V:524:ARG:HH12	2.29	0.41
1:W:156:GLN:HG2	1:W:227:MET:HG2	2.03	0.41
1:W:296:LEU:HD13	1:W:322:ALA:HA	2.02	0.41
1:Y:291:GLY:HA3	1:Y:407:TRP:HB3	2.02	0.41
1:Y:374:LEU:HD21	1:Y:409:ASN:O	2.20	0.41
1:Z:39:ASN:O	1:Z:52:TYR:HB3	2.20	0.41
1:Z:296:LEU:HD13	1:Z:322:ALA:HA	2.02	0.41
1:a:296:LEU:HD13	1:a:322:ALA:HA	2.02	0.41
1:c:164:ARG:HG3	1:p:485:HIS:HB2	2.02	0.41
1:c:374:LEU:HD21	1:c:409:ASN:O	2.20	0.41
1:c:398:TRP:CD1	1:p:399:SER:HA	2.55	0.41
1:d:39:ASN:O	1:d:52:TYR:HB3	2.20	0.41
1:e:489:MET:CB	1:f:495:TYR:HB2	2.51	0.41
1:g:120:ARG:NE	1:g:480:GLU:OE1	2.54	0.41
1:g:495:TYR:HB2	1:z:489:MET:CB	2.51	0.41
1:h:489:MET:CB	1:k:495:TYR:HB2	2.51	0.41
1:h:495:TYR:HB2	1:k:489:MET:HB2	2.01	0.41
1:h:499:ASP:OD1	1:h:524:ARG:NH2	2.43	0.41
1:i:164:ARG:HG3	1:k:485:HIS:HB2	2.03	0.41
1:j:181:PRO:HD3	1:w:487:TRP:CH2	2.56	0.41
1:l:296:LEU:HD13	1:l:322:ALA:HA	2.02	0.41
1:o:374:LEU:HD21	1:o:409:ASN:O	2.20	0.41
1:p:156:GLN:HG2	1:p:227:MET:HG2	2.03	0.41
1:p:499:ASP:CG	1:p:524:ARG:HH12	2.29	0.41
1:q:156:GLN:HG2	1:q:227:MET:HG2	2.03	0.41
1:q:290:PRO:O	1:q:383:TYR:OH	2.39	0.41
1:q:323:PRO:HG2	1:q:434:GLN:HB3	2.03	0.41
1:q:495:TYR:HB2	1:x:489:MET:CB	2.51	0.41
1:r:39:ASN:O	1:r:52:TYR:HB3	2.20	0.41
1:r:287:PRO:O	1:s:433:SER:HA	2.20	0.41
1:r:291:GLY:HA3	1:r:407:TRP:HB3	2.02	0.41
1:s:120:ARG:NE	1:s:480:GLU:OE1	2.54	0.41
1:t:487:TRP:CH2	1:5:181:PRO:HD3	2.56	0.41
1:u:487:TRP:CH2	1:1:181:PRO:HD3	2.56	0.41
1:v:370:ASP:OD1	1:v:527:MET:HE1	2.20	0.41
1:v:495:TYR:HB2	1:y:489:MET:CB	2.51	0.41
1:w:296:LEU:HD13	1:w:322:ALA:HA	2.02	0.41
1:x:156:GLN:HG2	1:x:227:MET:HG2	2.03	0.41
1:x:234:TRP:CH2	1:x:236:THR:HB	2.56	0.41
1:x:380:ARG:N	1:y:313:ALA:O	2.39	0.41
1:x:499:ASP:OD1	1:x:524:ARG:NH2	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:335:ASP:HB3	1:y:368:GLN:NE2	2.35	0.41
1:z:84:GLN:HB2	1:2:280:ASN:CG	2.46	0.41
1:z:287:PRO:O	1:1:433:SER:HA	2.20	0.41
1:z:345:LYS:HE3	1:z:364:ALA:O	2.20	0.41
1:1:290:PRO:HD3	1:2:319:MET:CE	2.51	0.41
1:4:323:PRO:HG2	1:4:434:GLN:HB3	2.03	0.41
1:5:39:ASN:O	1:5:52:TYR:HB3	2.20	0.41
1:7:335:ASP:HB3	1:7:368:GLN:NE2	2.35	0.41
1:7:374:LEU:HD21	1:7:409:ASN:O	2.20	0.41
1:8:161:GLN:NE2	1:8:445:GLY:H	2.16	0.41
1:8:296:LEU:HD13	1:8:322:ALA:HA	2.02	0.41
1:A:489:MET:CB	1:F:495:TYR:HB2	2.51	0.41
1:A:499:ASP:CG	1:A:524:ARG:HH12	2.29	0.41
1:B:487:TRP:CH2	1:I:181:PRO:HD3	2.56	0.41
1:C:39:ASN:O	1:C:52:TYR:HB3	2.20	0.41
1:C:234:TRP:CH2	1:C:236:THR:HB	2.56	0.41
1:C:290:PRO:HD3	1:b:319:MET:CE	2.51	0.41
1:C:296:LEU:HD13	1:C:322:ALA:HA	2.02	0.41
1:C:374:LEU:HD23	1:C:529:LYS:HE2	2.02	0.41
1:D:290:PRO:O	1:D:383:TYR:OH	2.39	0.41
1:D:323:PRO:HG2	1:D:434:GLN:HB3	2.03	0.41
1:D:331:GLU:H	1:D:331:GLU:CD	2.27	0.41
1:D:430:LYS:NZ	1:N:428:GLN:O	2.40	0.41
1:D:489:MET:HB2	1:M:495:TYR:HB2	2.01	0.41
1:E:180:PHE:H	1:E:183:ASN:ND2	2.19	0.41
1:E:219:CYS:SG	1:E:221:ASP:HB2	2.61	0.41
1:E:290:PRO:HD3	1:Q:319:MET:CE	2.51	0.41
1:G:290:PRO:HD3	1:I:319:MET:CE	2.51	0.41
1:G:291:GLY:HA3	1:G:407:TRP:HB3	2.02	0.41
1:H:81:THR:HG23	1:H:84:GLN:CG	2.45	0.41
1:H:374:LEU:HD23	1:H:529:LYS:HE2	2.02	0.41
1:H:499:ASP:CG	1:H:524:ARG:HH12	2.29	0.41
1:I:161:GLN:NE2	1:I:445:GLY:H	2.16	0.41
1:I:290:PRO:O	1:I:383:TYR:OH	2.39	0.41
1:J:180:PHE:H	1:J:183:ASN:ND2	2.19	0.41
1:J:280:ASN:CG	1:L:84:GLN:HB2	2.46	0.41
1:K:80:ASP:O	1:8:277:LYS:HE3	2.20	0.41
1:K:164:ARG:HG3	1:8:485:HIS:HB2	2.02	0.41
1:K:290:PRO:O	1:K:383:TYR:OH	2.39	0.41
1:K:314:VAL:H	1:K:318:GLY:HA2	1.86	0.41
1:K:485:HIS:HB2	1:a:164:ARG:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:234:TRP:CH2	1:L:236:THR:HB	2.56	0.41
1:L:345:LYS:HE3	1:L:364:ALA:O	2.20	0.41
1:M:156:GLN:HG2	1:M:227:MET:HG2	2.03	0.41
1:M:219:CYS:SG	1:M:221:ASP:HB2	2.61	0.41
1:M:296:LEU:HD13	1:M:322:ALA:HA	2.02	0.41
1:M:319:MET:CE	1:b:290:PRO:HD3	2.51	0.41
1:M:374:LEU:HD23	1:M:529:LYS:HE2	2.02	0.41
1:N:219:CYS:SG	1:N:221:ASP:HB2	2.61	0.41
1:N:487:TRP:CH2	1:O:181:PRO:HD3	2.56	0.41
1:O:219:CYS:SG	1:O:221:ASP:HB2	2.61	0.41
1:O:277:LYS:HE3	1:m:80:ASP:O	2.20	0.41
1:P:39:ASN:O	1:P:52:TYR:HB3	2.20	0.41
1:P:180:PHE:H	1:P:183:ASN:ND2	2.19	0.41
1:P:219:CYS:SG	1:P:221:ASP:HB2	2.61	0.41
1:P:234:TRP:CH2	1:P:236:THR:HB	2.56	0.41
1:R:319:MET:CE	1:U:290:PRO:HD3	2.51	0.41
1:R:499:ASP:CG	1:R:524:ARG:HH12	2.29	0.41
1:S:219:CYS:SG	1:S:221:ASP:HB2	2.61	0.41
1:S:276:ALA:HB1	1:S:284:TRP:NE1	2.36	0.41
1:S:291:GLY:HA3	1:S:407:TRP:HB3	2.02	0.41
1:S:323:PRO:HG2	1:S:434:GLN:HB3	2.03	0.41
1:S:487:TRP:CH2	1:T:181:PRO:HD3	2.56	0.41
1:T:80:ASP:O	1:l:277:LYS:HE3	2.20	0.41
1:T:120:ARG:NE	1:T:480:GLU:OE1	2.54	0.41
1:T:280:ASN:CG	1:d:84:GLN:HB2	2.46	0.41
1:T:290:PRO:O	1:T:383:TYR:OH	2.39	0.41
1:T:398:TRP:CD1	1:l:399:SER:HA	2.55	0.41
1:U:39:ASN:O	1:U:52:TYR:HB3	2.20	0.41
1:U:156:GLN:HG2	1:U:227:MET:HG2	2.03	0.41
1:V:84:GLN:HB2	1:X:280:ASN:CG	2.45	0.41
1:V:234:TRP:CH2	1:V:236:THR:HB	2.56	0.41
1:V:323:PRO:HG2	1:V:434:GLN:HB3	2.03	0.41
1:V:342:TRP:CH2	1:V:361:VAL:HG22	2.55	0.41
1:V:485:HIS:HB2	1:e:164:ARG:HG3	2.02	0.41
1:W:276:ALA:HB1	1:W:284:TRP:NE1	2.36	0.41
1:X:39:ASN:O	1:X:52:TYR:HB3	2.20	0.41
1:X:120:ARG:NE	1:X:480:GLU:OE1	2.54	0.41
1:X:374:LEU:HD21	1:X:409:ASN:O	2.20	0.41
1:Y:219:CYS:SG	1:Y:221:ASP:HB2	2.61	0.41
1:Y:495:TYR:HB2	1:Z:489:MET:CB	2.51	0.41
1:Z:287:PRO:O	1:4:433:SER:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:319:MET:CE	1:3:290:PRO:HD3	2.51	0.41
1:Z:342:TRP:CH2	1:Z:361:VAL:HG22	2.55	0.41
1:Z:374:LEU:HD21	1:Z:409:ASN:O	2.20	0.41
1:Z:485:HIS:HB2	1:4:164:ARG:HG3	2.02	0.41
1:a:180:PHE:H	1:a:183:ASN:ND2	2.19	0.41
1:a:290:PRO:HD3	1:8:319:MET:CE	2.51	0.41
1:a:495:TYR:HB2	1:3:489:MET:CB	2.51	0.41
1:b:120:ARG:NE	1:b:480:GLU:OE1	2.54	0.41
1:b:234:TRP:CH2	1:b:236:THR:HB	2.56	0.41
1:b:290:PRO:O	1:b:383:TYR:OH	2.39	0.41
1:b:495:TYR:HB2	1:c:489:MET:CB	2.51	0.41
1:c:120:ARG:NE	1:c:480:GLU:OE1	2.54	0.41
1:c:219:CYS:SG	1:c:221:ASP:HB2	2.61	0.41
1:c:485:HIS:HB2	1:o:164:ARG:HG3	2.02	0.41
1:d:277:LYS:HE3	1:l:80:ASP:O	2.21	0.41
1:d:314:VAL:H	1:d:318:GLY:HA2	1.86	0.41
1:e:120:ARG:NE	1:e:480:GLU:OE1	2.54	0.41
1:e:219:CYS:SG	1:e:221:ASP:HB2	2.61	0.41
1:e:374:LEU:HD21	1:e:409:ASN:O	2.20	0.41
1:f:120:ARG:NE	1:f:480:GLU:OE1	2.54	0.41
1:f:234:TRP:CH2	1:f:236:THR:HB	2.56	0.41
1:f:290:PRO:O	1:f:383:TYR:OH	2.39	0.41
1:f:290:PRO:HD3	1:h:319:MET:CE	2.51	0.41
1:f:319:MET:CE	1:g:290:PRO:HD3	2.51	0.41
1:g:234:TRP:CH2	1:g:236:THR:HB	2.56	0.41
1:g:296:LEU:HD13	1:g:322:ALA:HA	2.02	0.41
1:g:374:LEU:HD23	1:g:529:LYS:HE2	2.02	0.41
1:h:156:GLN:HG2	1:h:227:MET:HG2	2.03	0.41
1:h:219:CYS:SG	1:h:221:ASP:HB2	2.61	0.41
1:h:296:LEU:HD13	1:h:322:ALA:HA	2.02	0.41
1:h:374:LEU:HD23	1:h:529:LYS:HE2	2.02	0.41
1:i:487:TRP:CH2	1:l:181:PRO:HD3	2.56	0.41
1:j:39:ASN:O	1:j:52:TYR:HB3	2.20	0.41
1:j:120:ARG:NE	1:j:480:GLU:OE1	2.54	0.41
1:j:156:GLN:HG2	1:j:227:MET:HG2	2.03	0.41
1:j:180:PHE:H	1:j:183:ASN:ND2	2.19	0.41
1:j:219:CYS:SG	1:j:221:ASP:HB2	2.61	0.41
1:j:234:TRP:CH2	1:j:236:THR:HB	2.56	0.41
1:j:487:TRP:CH2	1:w:181:PRO:HD3	2.56	0.41
1:k:290:PRO:O	1:k:383:TYR:OH	2.39	0.41
1:k:323:PRO:HG2	1:k:434:GLN:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:331:GLU:H	1:k:331:GLU:CD	2.27	0.41
1:l:81:THR:HG23	1:l:84:GLN:CG	2.45	0.41
1:l:219:CYS:SG	1:l:221:ASP:HB2	2.61	0.41
1:l:291:GLY:HA3	1:l:407:TRP:HB3	2.02	0.41
1:l:374:LEU:HD21	1:l:409:ASN:O	2.20	0.41
1:m:120:ARG:NE	1:m:480:GLU:OE1	2.54	0.41
1:m:181:PRO:HD3	1:r:487:TRP:CH2	2.56	0.41
1:m:280:ASN:CG	1:n:84:GLN:HB2	2.46	0.41
1:n:39:ASN:O	1:n:52:TYR:HB3	2.20	0.41
1:n:314:VAL:H	1:n:318:GLY:HA2	1.86	0.41
1:o:120:ARG:NE	1:o:480:GLU:OE1	2.54	0.41
1:o:181:PRO:HD3	1:6:487:TRP:CH2	2.56	0.41
1:p:39:ASN:O	1:p:52:TYR:HB3	2.20	0.41
1:p:234:TRP:CH2	1:p:236:THR:HB	2.56	0.41
1:p:323:PRO:HG2	1:p:434:GLN:HB3	2.03	0.41
1:q:181:PRO:HD3	1:x:487:TRP:CH2	2.56	0.41
1:q:319:MET:CE	1:s:290:PRO:HD3	2.51	0.41
1:q:487:TRP:CH2	1:x:181:PRO:HD3	2.56	0.41
1:q:499:ASP:CG	1:q:524:ARG:HH12	2.29	0.41
1:r:219:CYS:SG	1:r:221:ASP:HB2	2.61	0.41
1:r:234:TRP:CH2	1:r:236:THR:HB	2.56	0.41
1:r:276:ALA:HB1	1:r:284:TRP:NE1	2.36	0.41
1:r:277:LYS:HE3	1:s:80:ASP:O	2.21	0.41
1:r:280:ASN:CG	1:s:84:GLN:HB2	2.46	0.41
1:r:285:ARG:NH2	1:s:335:ASP:O	2.45	0.41
1:r:323:PRO:HG2	1:r:434:GLN:HB3	2.03	0.41
1:s:156:GLN:HG2	1:s:227:MET:HG2	2.03	0.41
1:s:314:VAL:H	1:s:318:GLY:HA2	1.86	0.41
1:s:342:TRP:CH2	1:s:361:VAL:HG22	2.55	0.41
1:t:84:GLN:HB2	1:v:280:ASN:CG	2.46	0.41
1:t:290:PRO:HD3	1:u:319:MET:CE	2.51	0.41
1:t:291:GLY:HA3	1:t:407:TRP:HB3	2.02	0.41
1:t:398:TRP:CD1	1:v:399:SER:HA	2.55	0.41
1:u:219:CYS:SG	1:u:221:ASP:HB2	2.61	0.41
1:u:290:PRO:O	1:u:383:TYR:OH	2.39	0.41
1:u:342:TRP:CH2	1:u:361:VAL:HG22	2.55	0.41
1:v:156:GLN:HG2	1:v:227:MET:HG2	2.03	0.41
1:w:180:PHE:H	1:w:183:ASN:ND2	2.19	0.41
1:w:219:CYS:SG	1:w:221:ASP:HB2	2.61	0.41
1:w:290:PRO:HD3	1:x:319:MET:CE	2.51	0.41
1:x:39:ASN:O	1:x:52:TYR:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:39:ASN:O	1:y:52:TYR:HB3	2.20	0.41
1:y:234:TRP:CH2	1:y:236:THR:HB	2.56	0.41
1:z:80:ASP:O	1:2:277:LYS:HE3	2.21	0.41
1:z:234:TRP:CH2	1:z:236:THR:HB	2.56	0.41
1:z:485:HIS:HB2	1:1:164:ARG:HG3	2.02	0.41
1:z:499:ASP:OD1	1:z:524:ARG:NH2	2.43	0.41
1:1:280:ASN:CG	1:2:84:GLN:HB2	2.46	0.41
1:1:291:GLY:HA3	1:1:407:TRP:HB3	2.02	0.41
1:1:485:HIS:HB2	1:2:164:ARG:HG3	2.02	0.41
1:1:499:ASP:CG	1:1:524:ARG:HH12	2.29	0.41
1:2:180:PHE:H	1:2:183:ASN:ND2	2.19	0.41
1:3:164:ARG:HG3	1:4:485:HIS:HB2	2.02	0.41
1:4:276:ALA:HB1	1:4:284:TRP:NE1	2.36	0.41
1:4:290:PRO:O	1:4:383:TYR:OH	2.39	0.41
1:4:314:VAL:H	1:4:318:GLY:HA2	1.86	0.41
1:5:81:THR:HG23	1:5:84:GLN:CG	2.45	0.41
1:5:234:TRP:CH2	1:5:236:THR:HB	2.56	0.41
1:5:499:ASP:CG	1:5:524:ARG:HH12	2.29	0.41
1:6:156:GLN:HG2	1:6:227:MET:HG2	2.03	0.41
1:6:399:SER:HA	1:7:398:TRP:CD1	2.55	0.41
1:7:219:CYS:SG	1:7:221:ASP:HB2	2.61	0.41
1:7:495:TYR:HB2	1:8:489:MET:CB	2.51	0.41
1:8:39:ASN:O	1:8:52:TYR:HB3	2.20	0.41
1:8:180:PHE:H	1:8:183:ASN:ND2	2.19	0.41
1:8:374:LEU:HD21	1:8:409:ASN:O	2.20	0.41
1:A:180:PHE:H	1:A:183:ASN:ND2	2.19	0.41
1:A:276:ALA:HB1	1:A:284:TRP:NE1	2.36	0.41
1:A:399:SER:HA	1:G:398:TRP:CD1	2.55	0.41
1:B:499:ASP:CG	1:B:524:ARG:HH12	2.29	0.41
1:D:234:TRP:CH2	1:D:236:THR:HB	2.56	0.41
1:E:234:TRP:CH2	1:E:236:THR:HB	2.56	0.41
1:E:287:PRO:O	1:Q:433:SER:HA	2.20	0.41
1:F:39:ASN:O	1:F:52:TYR:HB3	2.20	0.41
1:F:80:ASP:O	1:Q:277:LYS:HE3	2.20	0.41
1:F:234:TRP:CH2	1:F:236:THR:HB	2.56	0.41
1:F:290:PRO:O	1:F:383:TYR:OH	2.39	0.41
1:G:120:ARG:NE	1:G:480:GLU:OE1	2.54	0.41
1:H:234:TRP:CH2	1:H:236:THR:HB	2.56	0.41
1:I:133:LEU:HD21	1:I:135:VAL:HG23	2.03	0.41
1:I:180:PHE:H	1:I:183:ASN:ND2	2.19	0.41
1:I:219:CYS:SG	1:I:221:ASP:HB2	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:277:LYS:HE3	1:L:80:ASP:O	2.21	0.41
1:J:487:TRP:CH2	1:K:181:PRO:HD3	2.56	0.41
1:K:276:ALA:HB1	1:K:284:TRP:NE1	2.36	0.41
1:K:433:SER:HA	1:8:287:PRO:O	2.20	0.41
1:M:80:ASP:O	1:b:277:LYS:HE3	2.21	0.41
1:M:499:ASP:CG	1:M:524:ARG:HH12	2.29	0.41
1:O:80:ASP:O	1:n:277:LYS:HE3	2.21	0.41
1:O:234:TRP:CH2	1:O:236:THR:HB	2.56	0.41
1:O:399:SER:HA	1:m:398:TRP:CD1	2.55	0.41
1:P:156:GLN:HG2	1:P:227:MET:HG2	2.03	0.41
1:P:290:PRO:O	1:P:383:TYR:OH	2.39	0.41
1:Q:39:ASN:O	1:Q:52:TYR:HB3	2.20	0.41
1:Q:291:GLY:HA3	1:Q:407:TRP:HB3	2.02	0.41
1:Q:499:ASP:CG	1:Q:524:ARG:HH12	2.29	0.41
1:R:374:LEU:HD21	1:R:409:ASN:O	2.20	0.41
1:S:234:TRP:CH2	1:S:236:THR:HB	2.56	0.41
1:S:485:HIS:HB2	1:U:164:ARG:HG3	2.03	0.41
1:T:219:CYS:SG	1:T:221:ASP:HB2	2.61	0.41
1:T:234:TRP:CH2	1:T:236:THR:HB	2.56	0.41
1:U:314:VAL:H	1:U:318:GLY:HA2	1.86	0.41
1:V:290:PRO:O	1:V:383:TYR:OH	2.39	0.41
1:W:120:ARG:NE	1:W:480:GLU:OE1	2.54	0.41
1:W:399:SER:HA	1:Y:398:TRP:CD1	2.55	0.41
1:W:487:TRP:CH2	1:X:181:PRO:HD3	2.56	0.41
1:X:335:ASP:O	1:e:285:ARG:NH2	2.45	0.41
1:X:374:LEU:HD23	1:X:529:LYS:HE2	2.02	0.41
1:Y:133:LEU:HD21	1:Y:135:VAL:HG23	2.03	0.41
1:Y:290:PRO:O	1:Y:383:TYR:OH	2.39	0.41
1:Y:296:LEU:HD13	1:Y:322:ALA:HA	2.02	0.41
1:Z:180:PHE:H	1:Z:183:ASN:ND2	2.19	0.41
1:Z:277:LYS:HE3	1:4:80:ASP:O	2.20	0.41
1:a:181:PRO:HD3	1:3:487:TRP:CH2	2.55	0.41
1:a:276:ALA:HB1	1:a:284:TRP:NE1	2.36	0.41
1:a:374:LEU:HD21	1:a:409:ASN:O	2.20	0.41
1:a:489:MET:CB	1:3:495:TYR:HB2	2.51	0.41
1:c:290:PRO:HD3	1:o:319:MET:CE	2.51	0.41
1:c:335:ASP:O	1:p:285:ARG:NH2	2.45	0.41
1:d:276:ALA:HB1	1:d:284:TRP:NE1	2.36	0.41
1:e:180:PHE:H	1:e:183:ASN:ND2	2.19	0.41
1:f:39:ASN:O	1:f:52:TYR:HB3	2.20	0.41
1:f:277:LYS:HE3	1:h:80:ASP:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:323:PRO:HG2	1:f:434:GLN:HB3	2.03	0.41
1:h:499:ASP:CG	1:h:524:ARG:HH12	2.29	0.41
1:i:219:CYS:SG	1:i:221:ASP:HB2	2.61	0.41
1:j:290:PRO:O	1:j:383:TYR:OH	2.39	0.41
1:k:234:TRP:CH2	1:k:236:THR:HB	2.56	0.41
1:l:180:PHE:H	1:l:183:ASN:ND2	2.19	0.41
1:l:234:TRP:CH2	1:l:236:THR:HB	2.56	0.41
1:m:219:CYS:SG	1:m:221:ASP:HB2	2.61	0.41
1:m:234:TRP:CH2	1:m:236:THR:HB	2.56	0.41
1:m:290:PRO:O	1:m:383:TYR:OH	2.39	0.41
1:m:489:MET:CB	1:r:495:TYR:HB2	2.51	0.41
1:n:290:PRO:O	1:n:383:TYR:OH	2.39	0.41
1:o:39:ASN:O	1:o:52:TYR:HB3	2.20	0.41
1:p:314:VAL:H	1:p:318:GLY:HA2	1.86	0.41
1:p:342:TRP:CH2	1:p:361:VAL:HG22	2.55	0.41
1:p:487:TRP:CH2	1:s:181:PRO:HD3	2.55	0.41
1:q:314:VAL:H	1:q:318:GLY:HA2	1.86	0.41
1:q:374:LEU:HD21	1:q:409:ASN:O	2.20	0.41
1:r:485:HIS:HB2	1:s:164:ARG:HG3	2.03	0.41
1:s:39:ASN:O	1:s:52:TYR:HB3	2.20	0.41
1:t:120:ARG:NE	1:t:480:GLU:OE1	2.54	0.41
1:t:380:ARG:N	1:u:313:ALA:O	2.39	0.41
1:t:495:TYR:HB2	1:5:489:MET:CB	2.51	0.41
1:u:180:PHE:H	1:u:183:ASN:ND2	2.19	0.41
1:u:495:TYR:HB2	1:1:489:MET:CB	2.51	0.41
1:v:489:MET:CB	1:y:495:TYR:HB2	2.51	0.41
1:v:499:ASP:CG	1:v:524:ARG:HH12	2.29	0.41
1:w:234:TRP:CH2	1:w:236:THR:HB	2.56	0.41
1:x:290:PRO:HD3	1:y:319:MET:CE	2.51	0.41
1:x:323:PRO:HG2	1:x:434:GLN:HB3	2.03	0.41
1:x:399:SER:HA	1:y:398:TRP:CD1	2.55	0.41
1:x:499:ASP:CG	1:x:524:ARG:HH12	2.29	0.41
1:y:290:PRO:O	1:y:383:TYR:OH	2.39	0.41
1:2:120:ARG:NE	1:2:480:GLU:OE1	2.54	0.41
1:2:323:PRO:HG2	1:2:434:GLN:HB3	2.03	0.41
1:3:180:PHE:H	1:3:183:ASN:ND2	2.19	0.41
1:3:276:ALA:HB1	1:3:284:TRP:NE1	2.37	0.41
1:3:374:LEU:HD21	1:3:409:ASN:O	2.20	0.41
1:5:84:GLN:HB2	1:7:280:ASN:CG	2.46	0.41
1:6:276:ALA:HB1	1:6:284:TRP:NE1	2.36	0.41
1:7:133:LEU:HD21	1:7:135:VAL:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:290:PRO:O	1:7:383:TYR:OH	2.39	0.41
1:8:342:TRP:CH2	1:8:361:VAL:HG22	2.55	0.41
1:B:234:TRP:CH2	1:B:236:THR:HB	2.56	0.40
1:B:276:ALA:HB1	1:B:284:TRP:NE1	2.36	0.40
1:B:291:GLY:HA3	1:B:407:TRP:HB3	2.02	0.40
1:B:489:MET:HB2	1:I:495:TYR:HB2	2.01	0.40
1:B:489:MET:CB	1:I:495:TYR:HB2	2.51	0.40
1:C:133:LEU:HD21	1:C:135:VAL:HG23	2.03	0.40
1:E:84:GLN:HB2	1:F:280:ASN:CG	2.46	0.40
1:F:133:LEU:HD21	1:F:135:VAL:HG23	2.03	0.40
1:F:180:PHE:H	1:F:183:ASN:ND2	2.19	0.40
1:F:276:ALA:HB1	1:F:284:TRP:NE1	2.36	0.40
1:G:234:TRP:CH2	1:G:236:THR:HB	2.56	0.40
1:H:84:GLN:HB2	1:Y:280:ASN:CG	2.47	0.40
1:H:280:ASN:CG	1:W:84:GLN:HB2	2.46	0.40
1:I:314:VAL:H	1:I:318:GLY:HA2	1.86	0.40
1:I:323:PRO:HG2	1:I:434:GLN:HB3	2.03	0.40
1:J:120:ARG:NE	1:J:480:GLU:OE1	2.54	0.40
1:J:290:PRO:O	1:J:383:TYR:OH	2.39	0.40
1:J:323:PRO:HG2	1:J:434:GLN:HB3	2.03	0.40
1:J:485:HIS:HB2	1:L:164:ARG:HG3	2.02	0.40
1:L:296:LEU:HD13	1:L:322:ALA:HA	2.02	0.40
1:M:234:TRP:CH2	1:M:236:THR:HB	2.56	0.40
1:N:39:ASN:O	1:N:52:TYR:HB3	2.20	0.40
1:N:314:VAL:H	1:N:318:GLY:HA2	1.87	0.40
1:O:180:PHE:H	1:O:183:ASN:ND2	2.19	0.40
1:Q:276:ALA:HB1	1:Q:284:TRP:NE1	2.36	0.40
1:Q:323:PRO:HG2	1:Q:434:GLN:HB3	2.03	0.40
1:R:314:VAL:H	1:R:318:GLY:HA2	1.87	0.40
1:S:120:ARG:NE	1:S:480:GLU:OE1	2.54	0.40
1:T:314:VAL:H	1:T:318:GLY:HA2	1.86	0.40
1:U:181:PRO:HD3	1:V:487:TRP:CH2	2.55	0.40
1:V:120:ARG:NE	1:V:480:GLU:OE1	2.54	0.40
1:W:499:ASP:CG	1:W:524:ARG:HH12	2.29	0.40
1:X:319:MET:CE	1:e:290:PRO:HD3	2.51	0.40
1:Z:156:GLN:HG2	1:Z:227:MET:HG2	2.03	0.40
1:Z:291:GLY:HA3	1:Z:407:TRP:HB3	2.02	0.40
1:a:487:TRP:CH2	1:3:181:PRO:HD3	2.55	0.40
1:b:39:ASN:O	1:b:52:TYR:HB3	2.20	0.40
1:b:323:PRO:HG2	1:b:434:GLN:HB3	2.03	0.40
1:c:180:PHE:H	1:c:183:ASN:ND2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:290:PRO:O	1:d:383:TYR:OH	2.39	0.40
1:e:133:LEU:HD21	1:e:135:VAL:HG23	2.03	0.40
1:g:39:ASN:O	1:g:52:TYR:HB3	2.20	0.40
1:g:80:ASP:O	1:h:277:LYS:HE3	2.20	0.40
1:g:133:LEU:HD21	1:g:135:VAL:HG23	2.03	0.40
1:i:314:VAL:H	1:i:318:GLY:HA2	1.87	0.40
1:m:314:VAL:H	1:m:318:GLY:HA2	1.86	0.40
1:n:276:ALA:HB1	1:n:284:TRP:NE1	2.36	0.40
1:o:280:ASN:CG	1:p:84:GLN:HB2	2.45	0.40
1:o:290:PRO:O	1:o:383:TYR:OH	2.39	0.40
1:p:290:PRO:O	1:p:383:TYR:OH	2.39	0.40
1:q:296:LEU:HD13	1:q:322:ALA:HA	2.02	0.40
1:q:313:ALA:O	1:s:380:ARG:N	2.39	0.40
1:r:120:ARG:NE	1:r:480:GLU:OE1	2.54	0.40
1:t:234:TRP:CH2	1:t:236:THR:HB	2.56	0.40
1:t:374:LEU:HD23	1:t:529:LYS:HE2	2.02	0.40
1:u:133:LEU:HD21	1:u:135:VAL:HG23	2.04	0.40
1:u:323:PRO:HG2	1:u:434:GLN:HB3	2.03	0.40
1:v:180:PHE:H	1:v:183:ASN:ND2	2.19	0.40
1:v:276:ALA:HB1	1:v:284:TRP:NE1	2.36	0.40
1:w:84:GLN:HB2	1:y:280:ASN:CG	2.46	0.40
1:x:276:ALA:HB1	1:x:284:TRP:NE1	2.36	0.40
1:x:291:GLY:HA3	1:x:407:TRP:HB3	2.02	0.40
1:y:133:LEU:HD21	1:y:135:VAL:HG23	2.03	0.40
1:y:276:ALA:HB1	1:y:284:TRP:NE1	2.36	0.40
1:y:499:ASP:CG	1:y:524:ARG:HH12	2.29	0.40
1:z:276:ALA:HB1	1:z:284:TRP:NE1	2.36	0.40
1:1:133:LEU:HD21	1:1:135:VAL:HG23	2.03	0.40
1:1:276:ALA:HB1	1:1:284:TRP:NE1	2.36	0.40
1:2:219:CYS:SG	1:2:221:ASP:HB2	2.61	0.40
1:2:290:PRO:O	1:2:383:TYR:OH	2.39	0.40
1:2:487:TRP:CH2	1:4:181:PRO:HD3	2.56	0.40
1:3:234:TRP:CH2	1:3:236:THR:HB	2.56	0.40
1:4:180:PHE:H	1:4:183:ASN:ND2	2.19	0.40
1:6:81:THR:HG23	1:6:84:GLN:CG	2.45	0.40
1:6:120:ARG:NE	1:6:480:GLU:OE1	2.54	0.40
1:6:499:ASP:CG	1:6:524:ARG:HH12	2.29	0.40
1:8:156:GLN:HG2	1:8:227:MET:HG2	2.03	0.40
1:8:234:TRP:CH2	1:8:236:THR:HB	2.56	0.40
1:8:291:GLY:HA3	1:8:407:TRP:HB3	2.02	0.40
1:8:323:PRO:HG2	1:8:434:GLN:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:323:PRO:HG2	1:A:434:GLN:HB3	2.03	0.40
1:B:133:LEU:HD21	1:B:135:VAL:HG23	2.03	0.40
1:B:277:LYS:HE3	1:J:80:ASP:O	2.22	0.40
1:C:80:ASP:O	1:M:277:LYS:HE3	2.20	0.40
1:C:314:VAL:H	1:C:318:GLY:HA2	1.86	0.40
1:D:276:ALA:HB1	1:D:284:TRP:NE1	2.36	0.40
1:D:489:MET:CB	1:M:495:TYR:HB2	2.51	0.40
1:E:276:ALA:HB1	1:E:284:TRP:NE1	2.36	0.40
1:F:319:MET:CE	1:Q:290:PRO:HD3	2.51	0.40
1:F:499:ASP:CG	1:F:524:ARG:HH12	2.29	0.40
1:G:81:THR:HG23	1:G:84:GLN:CG	2.45	0.40
1:G:260:GLN:HG3	1:G:281:PHE:CD1	2.57	0.40
1:G:374:LEU:HD23	1:G:529:LYS:HE2	2.02	0.40
1:I:260:GLN:HG3	1:I:281:PHE:CD1	2.57	0.40
1:J:219:CYS:SG	1:J:221:ASP:HB2	2.61	0.40
1:J:495:TYR:HB2	1:K:489:MET:CB	2.51	0.40
1:K:180:PHE:H	1:K:183:ASN:ND2	2.19	0.40
1:L:276:ALA:HB1	1:L:284:TRP:NE1	2.37	0.40
1:M:314:VAL:H	1:M:318:GLY:HA2	1.86	0.40
1:N:260:GLN:HG3	1:N:281:PHE:CD1	2.57	0.40
1:Q:133:LEU:HD21	1:Q:135:VAL:HG23	2.03	0.40
1:R:276:ALA:HB1	1:R:284:TRP:NE1	2.36	0.40
1:R:296:LEU:HD13	1:R:322:ALA:HA	2.02	0.40
1:S:314:VAL:H	1:S:318:GLY:HA2	1.86	0.40
1:S:495:TYR:HB2	1:T:489:MET:CB	2.51	0.40
1:T:276:ALA:HB1	1:T:284:TRP:NE1	2.36	0.40
1:T:499:ASP:OD1	1:T:524:ARG:NH2	2.43	0.40
1:V:291:GLY:HA3	1:V:407:TRP:HB3	2.02	0.40
1:V:314:VAL:H	1:V:318:GLY:HA2	1.87	0.40
1:V:335:ASP:O	1:X:285:ARG:NH2	2.45	0.40
1:W:133:LEU:HD21	1:W:135:VAL:HG23	2.03	0.40
1:X:234:TRP:CH2	1:X:236:THR:HB	2.56	0.40
1:X:290:PRO:O	1:X:383:TYR:OH	2.39	0.40
1:X:499:ASP:CG	1:X:524:ARG:HH12	2.29	0.40
1:Y:120:ARG:NE	1:Y:480:GLU:OE1	2.54	0.40
1:Y:374:LEU:HD23	1:Y:529:LYS:HE2	2.02	0.40
1:Y:487:TRP:CH2	1:Z:181:PRO:HD3	2.56	0.40
1:Z:133:LEU:HD21	1:Z:135:VAL:HG23	2.04	0.40
1:Z:234:TRP:CH2	1:Z:236:THR:HB	2.56	0.40
1:Z:323:PRO:HG2	1:Z:434:GLN:HB3	2.03	0.40
1:a:234:TRP:CH2	1:a:236:THR:HB	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:133:LEU:HD21	1:c:135:VAL:HG23	2.03	0.40
1:c:374:LEU:HD23	1:c:529:LYS:HE2	2.02	0.40
1:d:120:ARG:NE	1:d:480:GLU:OE1	2.54	0.40
1:d:234:TRP:CH2	1:d:236:THR:HB	2.56	0.40
1:d:280:ASN:CG	1:l:84:GLN:HB2	2.46	0.40
1:d:489:MET:CB	1:n:495:TYR:HB2	2.51	0.40
1:e:374:LEU:HD23	1:e:529:LYS:HE2	2.02	0.40
1:h:234:TRP:CH2	1:h:236:THR:HB	2.56	0.40
1:i:156:GLN:HG2	1:i:227:MET:HG2	2.03	0.40
1:i:260:GLN:HG3	1:i:281:PHE:CD1	2.57	0.40
1:j:499:ASP:CG	1:j:524:ARG:HH12	2.29	0.40
1:m:276:ALA:HB1	1:m:284:TRP:NE1	2.36	0.40
1:n:120:ARG:NE	1:n:480:GLU:OE1	2.54	0.40
1:o:234:TRP:CH2	1:o:236:THR:HB	2.56	0.40
1:o:285:ARG:NH2	1:p:335:ASP:O	2.45	0.40
1:o:374:LEU:HD23	1:o:529:LYS:HE2	2.02	0.40
1:o:499:ASP:CG	1:o:524:ARG:HH12	2.29	0.40
1:p:120:ARG:NE	1:p:480:GLU:OE1	2.54	0.40
1:r:314:VAL:H	1:r:318:GLY:HA2	1.86	0.40
1:u:260:GLN:HG3	1:u:281:PHE:CD1	2.57	0.40
1:u:314:VAL:H	1:u:318:GLY:HA2	1.86	0.40
1:u:489:MET:CB	1:l:495:TYR:HB2	2.51	0.40
1:v:168:LEU:N	1:v:446:HIS:HE1	2.10	0.40
1:w:276:ALA:HB1	1:w:284:TRP:NE1	2.36	0.40
1:w:287:PRO:O	1:x:433:SER:HA	2.20	0.40
1:x:133:LEU:HD21	1:x:135:VAL:HG23	2.03	0.40
1:x:277:LYS:HE3	1:y:80:ASP:O	2.20	0.40
1:y:180:PHE:H	1:y:183:ASN:ND2	2.19	0.40
1:z:280:ASN:CG	1:l:84:GLN:HB2	2.46	0.40
1:z:296:LEU:HD13	1:z:322:ALA:HA	2.02	0.40
1:z:374:LEU:HD21	1:z:409:ASN:O	2.20	0.40
1:2:133:LEU:HD21	1:2:135:VAL:HG23	2.03	0.40
1:4:212:THR:O	1:4:215:SER:OG	2.35	0.40
1:5:323:PRO:HG2	1:5:434:GLN:HB3	2.03	0.40
1:5:374:LEU:HD23	1:5:529:LYS:HE2	2.02	0.40
1:6:133:LEU:HD21	1:6:135:VAL:HG23	2.03	0.40
1:6:260:GLN:HG3	1:6:281:PHE:CD1	2.57	0.40
1:7:120:ARG:NE	1:7:480:GLU:OE1	2.54	0.40
1:7:296:LEU:HD13	1:7:322:ALA:HA	2.02	0.40
1:7:314:VAL:H	1:7:318:GLY:HA2	1.86	0.40
1:A:168:LEU:N	1:A:446:HIS:HE1	2.10	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:234:TRP:CH2	1:A:236:THR:HB	2.56	0.40
1:A:290:PRO:HD3	1:G:319:MET:CE	2.51	0.40
1:B:181:PRO:HD3	1:I:487:TRP:CH2	2.56	0.40
1:B:319:MET:CE	1:L:290:PRO:HD3	2.51	0.40
1:E:120:ARG:NE	1:E:480:GLU:OE1	2.54	0.40
1:E:260:GLN:HG3	1:E:281:PHE:CD1	2.57	0.40
1:E:314:VAL:H	1:E:318:GLY:HA2	1.87	0.40
1:G:39:ASN:O	1:G:52:TYR:HB3	2.20	0.40
1:G:133:LEU:HD21	1:G:135:VAL:HG23	2.04	0.40
1:H:276:ALA:HB1	1:H:284:TRP:NE1	2.36	0.40
1:H:296:LEU:HD13	1:H:322:ALA:HA	2.02	0.40
1:H:323:PRO:HG2	1:H:434:GLN:HB3	2.03	0.40
1:J:133:LEU:HD21	1:J:135:VAL:HG23	2.03	0.40
1:J:260:GLN:HG3	1:J:281:PHE:CD1	2.57	0.40
1:K:219:CYS:SG	1:K:221:ASP:HB2	2.61	0.40
1:K:319:MET:CE	1:8:290:PRO:HD3	2.51	0.40
1:L:133:LEU:HD21	1:L:135:VAL:HG23	2.03	0.40
1:L:260:GLN:HG3	1:L:281:PHE:CD1	2.57	0.40
1:L:374:LEU:HD21	1:L:409:ASN:O	2.20	0.40
1:N:156:GLN:HG2	1:N:227:MET:HG2	2.03	0.40
1:N:280:ASN:CG	1:P:84:GLN:HB2	2.47	0.40
1:N:495:TYR:HB2	1:O:489:MET:CB	2.51	0.40
1:O:84:GLN:HB2	1:n:280:ASN:CG	2.46	0.40
1:O:485:HIS:HB2	1:m:164:ARG:HG3	2.02	0.40
1:O:499:ASP:CG	1:O:524:ARG:HH12	2.29	0.40
1:P:499:ASP:CG	1:P:524:ARG:HH12	2.29	0.40
1:Q:180:PHE:H	1:Q:183:ASN:ND2	2.19	0.40
1:R:234:TRP:CH2	1:R:236:THR:HB	2.56	0.40
1:S:156:GLN:HG2	1:S:227:MET:HG2	2.03	0.40
1:S:290:PRO:O	1:S:383:TYR:OH	2.39	0.40
1:T:296:LEU:HD13	1:T:322:ALA:HA	2.02	0.40
1:V:219:CYS:SG	1:V:221:ASP:HB2	2.61	0.40
1:W:260:GLN:HG3	1:W:281:PHE:CD1	2.57	0.40
1:W:323:PRO:HG2	1:W:434:GLN:HB3	2.03	0.40
1:Y:234:TRP:CH2	1:Y:236:THR:HB	2.56	0.40
1:Z:219:CYS:SG	1:Z:221:ASP:HB2	2.61	0.40
1:a:291:GLY:HA3	1:a:407:TRP:HB3	2.02	0.40
1:c:323:PRO:HG2	1:c:434:GLN:HB3	2.03	0.40
1:d:495:TYR:HB2	1:n:489:MET:CB	2.51	0.40
1:e:276:ALA:HB1	1:e:284:TRP:NE1	2.36	0.40
1:e:323:PRO:HG2	1:e:434:GLN:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:314:VAL:H	1:g:318:GLY:HA2	1.86	0.40
1:h:120:ARG:NE	1:h:480:GLU:OE1	2.54	0.40
1:h:314:VAL:H	1:h:318:GLY:HA2	1.86	0.40
1:h:495:TYR:HB2	1:k:489:MET:CB	2.51	0.40
1:i:39:ASN:O	1:i:52:TYR:HB3	2.20	0.40
1:i:81:THR:HG23	1:i:84:GLN:CG	2.45	0.40
1:i:280:ASN:CG	1:j:84:GLN:HB2	2.47	0.40
1:k:276:ALA:HB1	1:k:284:TRP:NE1	2.36	0.40
1:l:168:LEU:N	1:l:446:HIS:HE1	2.10	0.40
1:m:296:LEU:HD13	1:m:322:ALA:HA	2.02	0.40
1:m:499:ASP:OD1	1:m:524:ARG:NH2	2.43	0.40
1:n:180:PHE:H	1:n:183:ASN:ND2	2.19	0.40
1:n:234:TRP:CH2	1:n:236:THR:HB	2.56	0.40
1:p:168:LEU:N	1:p:446:HIS:HE1	2.10	0.40
1:p:291:GLY:HA3	1:p:407:TRP:HB3	2.02	0.40
1:q:276:ALA:HB1	1:q:284:TRP:NE1	2.36	0.40
1:r:290:PRO:O	1:r:383:TYR:OH	2.39	0.40
1:t:39:ASN:O	1:t:52:TYR:HB3	2.20	0.40
1:t:80:ASP:O	1:v:277:LYS:HE3	2.21	0.40
1:t:260:GLN:HG3	1:t:281:PHE:CD1	2.57	0.40
1:t:319:MET:CE	1:v:290:PRO:HD3	2.51	0.40
1:t:499:ASP:CG	1:t:524:ARG:HH12	2.29	0.40
1:u:495:TYR:HB2	1:l:489:MET:HB2	2.01	0.40
1:v:323:PRO:HG2	1:v:434:GLN:HB3	2.03	0.40
1:w:260:GLN:HG3	1:w:281:PHE:CD1	2.57	0.40
1:w:314:VAL:H	1:w:318:GLY:HA2	1.87	0.40
1:w:485:HIS:HB2	1:x:164:ARG:HG3	2.02	0.40
1:x:180:PHE:H	1:x:183:ASN:ND2	2.19	0.40
1:z:133:LEU:HD21	1:z:135:VAL:HG23	2.03	0.40
1:z:219:CYS:SG	1:z:221:ASP:HB2	2.61	0.40
1:2:495:TYR:HB2	1:4:489:MET:CB	2.51	0.40
1:3:291:GLY:HA3	1:3:407:TRP:HB3	2.02	0.40
1:5:276:ALA:HB1	1:5:284:TRP:NE1	2.36	0.40
1:5:296:LEU:HD13	1:5:322:ALA:HA	2.02	0.40
1:6:323:PRO:HG2	1:6:434:GLN:HB3	2.03	0.40
1:7:487:TRP:CH2	1:8:181:PRO:HD3	2.56	0.40
1:8:133:LEU:HD21	1:8:135:VAL:HG23	2.04	0.40
1:8:219:CYS:SG	1:8:221:ASP:HB2	2.61	0.40
1:B:39:ASN:O	1:B:52:TYR:HB3	2.20	0.40
1:B:84:GLN:HB2	1:L:280:ASN:CG	2.46	0.40
1:B:290:PRO:O	1:B:383:TYR:OH	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:290:PRO:HD3	1:J:319:MET:CE	2.52	0.40
1:E:489:MET:CB	1:P:495:TYR:HB2	2.51	0.40
1:G:180:PHE:H	1:G:183:ASN:ND2	2.19	0.40
1:G:219:CYS:SG	1:G:221:ASP:HB2	2.61	0.40
1:G:499:ASP:CG	1:G:524:ARG:HH12	2.29	0.40
1:H:80:ASP:O	1:Y:277:LYS:HE3	2.22	0.40
1:I:120:ARG:NE	1:I:480:GLU:OE1	2.54	0.40
1:J:276:ALA:HB1	1:J:284:TRP:NE1	2.36	0.40
1:K:234:TRP:CH2	1:K:236:THR:HB	2.56	0.40
1:K:290:PRO:HD3	1:a:319:MET:CE	2.51	0.40
1:K:380:ARG:N	1:a:313:ALA:O	2.39	0.40
1:L:219:CYS:SG	1:L:221:ASP:HB2	2.61	0.40
1:M:94:TRP:HA	1:M:450:LYS:HB3	2.04	0.40
1:M:120:ARG:NE	1:M:480:GLU:OE1	2.54	0.40
1:Q:219:CYS:SG	1:Q:221:ASP:HB2	2.61	0.40
1:Q:374:LEU:HD23	1:Q:529:LYS:HE2	2.02	0.40
1:R:80:ASP:O	1:U:277:LYS:HE3	2.21	0.40
1:R:195:SER:N	1:U:253:THR:O	2.54	0.40
1:R:219:CYS:SG	1:R:221:ASP:HB2	2.61	0.40
1:S:180:PHE:H	1:S:183:ASN:ND2	2.19	0.40
1:S:290:PRO:HD3	1:U:319:MET:CE	2.51	0.40
1:T:164:ARG:HG3	1:l:485:HIS:HB2	2.02	0.40
1:U:94:TRP:HA	1:U:450:LYS:HB3	2.04	0.40
1:V:168:LEU:N	1:V:446:HIS:HE1	2.10	0.40
1:V:290:PRO:HD3	1:e:319:MET:CE	2.51	0.40
1:V:319:MET:CE	1:X:290:PRO:HD3	2.51	0.40
1:W:81:THR:HG23	1:W:84:GLN:CG	2.45	0.40
1:X:195:SER:N	1:e:253:THR:O	2.54	0.40
1:Y:314:VAL:H	1:Y:318:GLY:HA2	1.87	0.40
1:Z:120:ARG:NE	1:Z:480:GLU:OE1	2.54	0.40
1:Z:290:PRO:HD3	1:4:319:MET:CE	2.51	0.40
1:Z:314:VAL:H	1:Z:318:GLY:HA2	1.86	0.40
1:a:94:TRP:HA	1:a:450:LYS:HB3	2.04	0.40
1:b:156:GLN:HG2	1:b:227:MET:HG2	2.03	0.40
1:c:156:GLN:HG2	1:c:227:MET:HG2	2.03	0.40
1:c:253:THR:O	1:o:195:SER:N	2.54	0.40
1:c:276:ALA:HB1	1:c:284:TRP:NE1	2.36	0.40
1:c:319:MET:CE	1:p:290:PRO:HD3	2.51	0.40
1:d:180:PHE:H	1:d:183:ASN:ND2	2.19	0.40
1:f:156:GLN:HG2	1:f:227:MET:HG2	2.03	0.40
1:h:94:TRP:HA	1:h:450:LYS:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:495:TYR:HB2	1:l:489:MET:CB	2.51	0.40
1:k:120:ARG:NE	1:k:480:GLU:OE1	2.54	0.40
1:l:133:LEU:HD21	1:l:135:VAL:HG23	2.04	0.40
1:l:499:ASP:CG	1:l:524:ARG:HH12	2.29	0.40
1:o:314:VAL:H	1:o:318:GLY:HA2	1.86	0.40
1:p:219:CYS:SG	1:p:221:ASP:HB2	2.61	0.40
1:q:80:ASP:O	1:s:277:LYS:HE3	2.21	0.40
1:q:195:SER:N	1:s:253:THR:O	2.54	0.40
1:q:219:CYS:SG	1:q:221:ASP:HB2	2.61	0.40
1:q:428:GLN:O	1:s:430:LYS:NZ	2.39	0.40
1:r:260:GLN:HG3	1:r:281:PHE:CD1	2.57	0.40
1:r:290:PRO:HD3	1:s:319:MET:CE	2.51	0.40
1:s:94:TRP:HA	1:s:450:LYS:HB3	2.04	0.40
1:t:133:LEU:HD21	1:t:135:VAL:HG23	2.04	0.40
1:t:180:PHE:H	1:t:183:ASN:ND2	2.19	0.40
1:t:219:CYS:SG	1:t:221:ASP:HB2	2.61	0.40
1:u:120:ARG:NE	1:u:480:GLU:OE1	2.54	0.40
1:v:234:TRP:CH2	1:v:236:THR:HB	2.56	0.40
1:w:81:THR:HG23	1:w:84:GLN:CG	2.45	0.40
1:x:219:CYS:SG	1:x:221:ASP:HB2	2.61	0.40
1:x:374:LEU:HD23	1:x:529:LYS:HE2	2.02	0.40
1:z:120:ARG:NE	1:z:480:GLU:OE1	2.54	0.40
1:z:164:ARG:HG3	1:2:485:HIS:HB2	2.03	0.40
1:z:260:GLN:HG3	1:z:281:PHE:CD1	2.57	0.40
1:z:290:PRO:HD3	1:1:319:MET:CE	2.51	0.40
1:1:234:TRP:CH2	1:1:236:THR:HB	2.56	0.40
1:1:290:PRO:O	1:1:383:TYR:OH	2.39	0.40
1:1:323:PRO:HG2	1:1:434:GLN:HB3	2.03	0.40
1:2:260:GLN:HG3	1:2:281:PHE:CD1	2.57	0.40
1:3:94:TRP:HA	1:3:450:LYS:HB3	2.04	0.40
1:3:290:PRO:O	1:3:383:TYR:OH	2.39	0.40
1:4:219:CYS:SG	1:4:221:ASP:HB2	2.61	0.40
1:4:234:TRP:CH2	1:4:236:THR:HB	2.56	0.40
1:5:80:ASP:O	1:7:277:LYS:HE3	2.22	0.40
1:5:120:ARG:NE	1:5:480:GLU:OE1	2.54	0.40
1:5:188:PRO:HA	1:7:264:TYR:OH	2.21	0.40
1:5:260:GLN:HG3	1:5:281:PHE:CD1	2.57	0.40
1:6:219:CYS:SG	1:6:221:ASP:HB2	2.61	0.40
1:6:290:PRO:HD3	1:7:319:MET:CE	2.52	0.40
1:7:181:PRO:HD3	1:8:487:TRP:CH2	2.56	0.40
1:8:120:ARG:NE	1:8:480:GLU:OE1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:314:VAL:H	1:8:318:GLY:HA2	1.86	0.40
1:A:260:GLN:HG3	1:A:281:PHE:CD1	2.57	0.40
1:A:277:LYS:HE3	1:G:80:ASP:O	2.21	0.40
1:A:296:LEU:HD13	1:A:322:ALA:HA	2.02	0.40
1:A:313:ALA:O	1:I:380:ARG:N	2.39	0.40
1:A:314:VAL:H	1:A:318:GLY:HA2	1.86	0.40
1:B:40:CYS:SG	1:B:181:PRO:HB3	2.62	0.40
1:B:219:CYS:SG	1:B:221:ASP:HB2	2.61	0.40
1:B:323:PRO:HG2	1:B:434:GLN:HB3	2.03	0.40
1:B:339:HIS:CE1	1:B:435:LEU:HA	2.57	0.40
1:C:40:CYS:SG	1:C:181:PRO:HB3	2.62	0.40
1:C:164:ARG:HG3	1:M:485:HIS:HB2	2.02	0.40
1:C:290:PRO:O	1:C:383:TYR:OH	2.39	0.40
1:C:319:MET:CE	1:M:290:PRO:HD3	2.51	0.40
1:C:380:ARG:N	1:b:313:ALA:O	2.39	0.40
1:C:399:SER:HA	1:b:398:TRP:CD1	2.55	0.40
1:D:120:ARG:NE	1:D:480:GLU:OE1	2.54	0.40
1:D:219:CYS:SG	1:D:221:ASP:HB2	2.61	0.40
1:E:485:HIS:HB2	1:Q:164:ARG:HG3	2.02	0.40
1:H:120:ARG:NE	1:H:480:GLU:OE1	2.54	0.40
1:H:260:GLN:HG3	1:H:281:PHE:CD1	2.57	0.40
1:I:40:CYS:SG	1:I:181:PRO:HB3	2.62	0.40
1:J:374:LEU:HD23	1:J:529:LYS:HE2	2.02	0.40
1:K:374:LEU:HD23	1:K:529:LYS:HE2	2.02	0.40
1:K:399:SER:HA	1:a:398:TRP:CD1	2.55	0.40
1:L:120:ARG:NE	1:L:480:GLU:OE1	2.54	0.40
1:M:339:HIS:CE1	1:M:435:LEU:HA	2.57	0.40
1:N:290:PRO:O	1:N:383:TYR:OH	2.39	0.40
1:O:133:LEU:HD21	1:O:135:VAL:HG23	2.04	0.40
1:O:168:LEU:N	1:O:446:HIS:HE1	2.10	0.40
1:S:499:ASP:CG	1:S:524:ARG:HH12	2.29	0.40
1:T:260:GLN:HG3	1:T:281:PHE:CD1	2.57	0.40
1:T:290:PRO:HD3	1:d:319:MET:CE	2.51	0.40
1:T:499:ASP:CG	1:T:524:ARG:HH12	2.29	0.40
1:U:234:TRP:CH2	1:U:236:THR:HB	2.56	0.40
1:U:495:TYR:HB2	1:V:489:MET:CB	2.51	0.40
1:W:40:CYS:SG	1:W:181:PRO:HB3	2.62	0.40
1:W:290:PRO:HD3	1:Y:319:MET:CE	2.52	0.40
1:X:314:VAL:H	1:X:318:GLY:HA2	1.86	0.40
1:Y:181:PRO:HD3	1:Z:487:TRP:CH2	2.56	0.40
1:Z:40:CYS:SG	1:Z:181:PRO:HB3	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:120:ARG:NE	1:a:480:GLU:OE1	2.54	0.40
1:a:260:GLN:HG3	1:a:281:PHE:CD1	2.57	0.40
1:a:290:PRO:O	1:a:383:TYR:OH	2.39	0.40
1:b:260:GLN:HG3	1:b:281:PHE:CD1	2.57	0.40
1:c:285:ARG:NH2	1:o:335:ASP:O	2.45	0.40
1:c:499:ASP:CG	1:c:524:ARG:HH12	2.29	0.40
1:d:94:TRP:HA	1:d:450:LYS:HB3	2.04	0.40
1:d:339:HIS:CE1	1:d:435:LEU:HA	2.57	0.40
1:e:499:ASP:CG	1:e:524:ARG:HH12	2.29	0.40
1:f:260:GLN:HG3	1:f:281:PHE:CD1	2.57	0.40
1:f:398:TRP:CD1	1:g:399:SER:HA	2.55	0.40
1:g:40:CYS:SG	1:g:181:PRO:HB3	2.62	0.40
1:g:290:PRO:O	1:g:383:TYR:OH	2.39	0.40
1:g:319:MET:CE	1:h:290:PRO:HD3	2.51	0.40
1:h:339:HIS:CE1	1:h:435:LEU:HA	2.57	0.40
1:i:290:PRO:O	1:i:383:TYR:OH	2.39	0.40
1:j:495:TYR:HB2	1:w:489:MET:CB	2.51	0.40
1:k:180:PHE:H	1:k:183:ASN:ND2	2.19	0.40
1:k:219:CYS:SG	1:k:221:ASP:HB2	2.61	0.40
1:l:339:HIS:CE1	1:l:435:LEU:HA	2.57	0.40
1:m:260:GLN:HG3	1:m:281:PHE:CD1	2.57	0.40
1:n:296:LEU:HD13	1:n:322:ALA:HA	2.02	0.40
1:n:339:HIS:CE1	1:n:435:LEU:HA	2.57	0.40
1:o:290:PRO:HD3	1:p:319:MET:CE	2.51	0.40
1:p:489:MET:CB	1:s:495:TYR:HB2	2.51	0.40
1:q:94:TRP:HA	1:q:450:LYS:HB3	2.04	0.40
1:q:234:TRP:CH2	1:q:236:THR:HB	2.56	0.40
1:r:40:CYS:SG	1:r:181:PRO:HB3	2.62	0.40
1:r:156:GLN:HG2	1:r:227:MET:HG2	2.03	0.40
1:r:180:PHE:H	1:r:183:ASN:ND2	2.19	0.40
1:r:499:ASP:CG	1:r:524:ARG:HH12	2.29	0.40
1:s:260:GLN:HG3	1:s:281:PHE:CD1	2.57	0.40
1:s:296:LEU:HD13	1:s:322:ALA:HA	2.02	0.40
1:u:40:CYS:SG	1:u:181:PRO:HB3	2.62	0.40
1:v:40:CYS:SG	1:v:181:PRO:HB3	2.62	0.40
1:v:296:LEU:HD13	1:v:322:ALA:HA	2.02	0.40
1:w:120:ARG:NE	1:w:480:GLU:OE1	2.54	0.40
1:y:260:GLN:HG3	1:y:281:PHE:CD1	2.57	0.40
1:z:329:ARG:NE	1:z:331:GLU:OE2	2.47	0.40
1:1:39:ASN:O	1:1:52:TYR:HB3	2.20	0.40
1:1:40:CYS:SG	1:1:181:PRO:HB3	2.62	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:219:CYS:SG	1:1:221:ASP:HB2	2.61	0.40
1:1:339:HIS:CE1	1:1:435:LEU:HA	2.57	0.40
1:2:276:ALA:HB1	1:2:284:TRP:NE1	2.36	0.40
1:2:374:LEU:HD23	1:2:529:LYS:HE2	2.02	0.40
1:2:489:MET:CB	1:4:495:TYR:HB2	2.51	0.40
1:3:120:ARG:NE	1:3:480:GLU:OE1	2.54	0.40
1:3:260:GLN:HG3	1:3:281:PHE:CD1	2.57	0.40
1:3:313:ALA:O	1:4:380:ARG:N	2.39	0.40
1:3:319:MET:CE	1:4:290:PRO:HD3	2.51	0.40
1:3:339:HIS:CE1	1:3:435:LEU:HA	2.57	0.40
1:5:156:GLN:HG2	1:5:227:MET:HG2	2.03	0.40
1:5:290:PRO:HD3	1:6:319:MET:CE	2.51	0.40
1:6:40:CYS:SG	1:6:181:PRO:HB3	2.62	0.40
1:6:94:TRP:HA	1:6:450:LYS:HB3	2.04	0.40
1:7:234:TRP:CH2	1:7:236:THR:HB	2.56	0.40
1:7:374:LEU:HD23	1:7:529:LYS:HE2	2.02	0.40
1:8:40:CYS:SG	1:8:181:PRO:HB3	2.62	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	2	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	3	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	4	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	5	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	6	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	7	504/535 (94%)	497 (99%)	7 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	8	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	A	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	B	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	C	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	D	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	E	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	F	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	G	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	H	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	I	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	J	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	K	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	L	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	M	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	N	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	O	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	P	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	Q	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	R	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	S	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	T	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	U	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	V	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	W	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	X	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	Y	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	Z	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	a	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	b	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	c	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	d	504/535 (94%)	497 (99%)	7 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	e	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	f	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	g	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	h	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	i	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	j	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	k	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	l	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	m	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	n	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	o	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	p	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	q	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	r	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	s	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	t	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	u	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	v	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	w	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	x	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	y	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
1	z	504/535 (94%)	497 (99%)	7 (1%)	0	100	100
All	All	30240/32100 (94%)	29820 (99%)	420 (1%)	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	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	2	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	3	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	4	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	5	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	6	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	7	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	8	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	A	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	B	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	C	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	D	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	E	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	F	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	G	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	H	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	I	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	J	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	K	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	L	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	M	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	N	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	O	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	P	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	Q	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	R	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	S	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	T	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	U	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	V	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	W	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	X	446/465 (96%)	445 (100%)	1 (0%)	92	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Y	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	Z	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	a	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	b	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	c	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	d	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	e	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	f	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	g	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	h	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	i	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	j	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	k	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	l	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	m	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	n	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	o	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	p	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	q	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	r	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	s	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	t	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	u	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	v	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	w	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	x	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	y	446/465 (96%)	445 (100%)	1 (0%)	92	96
1	z	446/465 (96%)	445 (100%)	1 (0%)	92	96
All	All	26760/27900 (96%)	26700 (100%)	60 (0%)	91	96

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

Mol	Chain	Res	Type
1	A	535	ASN
1	B	535	ASN
1	C	535	ASN
1	D	535	ASN
1	E	535	ASN
1	F	535	ASN
1	G	535	ASN
1	H	535	ASN
1	I	535	ASN
1	J	535	ASN
1	K	535	ASN
1	L	535	ASN
1	M	535	ASN
1	N	535	ASN
1	O	535	ASN
1	P	535	ASN
1	Q	535	ASN
1	R	535	ASN
1	S	535	ASN
1	T	535	ASN
1	U	535	ASN
1	V	535	ASN
1	W	535	ASN
1	X	535	ASN
1	Y	535	ASN
1	Z	535	ASN
1	a	535	ASN
1	b	535	ASN
1	c	535	ASN
1	d	535	ASN
1	e	535	ASN
1	f	535	ASN
1	g	535	ASN
1	h	535	ASN
1	i	535	ASN
1	j	535	ASN
1	k	535	ASN
1	l	535	ASN
1	m	535	ASN
1	n	535	ASN
1	o	535	ASN
1	p	535	ASN
1	q	535	ASN

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Mol	Chain	Res	Type
1	r	535	ASN
1	s	535	ASN
1	t	535	ASN
1	u	535	ASN
1	v	535	ASN
1	w	535	ASN
1	x	535	ASN
1	y	535	ASN
1	z	535	ASN
1	1	535	ASN
1	2	535	ASN
1	3	535	ASN
1	4	535	ASN
1	5	535	ASN
1	6	535	ASN
1	7	535	ASN
1	8	535	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1012) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	56	HIS
1	A	77	HIS
1	A	101	GLN
1	A	127	HIS
1	A	134	GLN
1	A	161	GLN
1	A	226	GLN
1	A	248	ASN
1	A	260	GLN
1	A	280	ASN
1	A	308	ASN
1	A	327	GLN
1	A	368	GLN
1	A	428	GLN
1	A	446	HIS
1	A	485	HIS
1	A	512	GLN
1	B	56	HIS
1	B	77	HIS
1	B	101	GLN
1	B	127	HIS

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Mol	Chain	Res	Type
1	B	134	GLN
1	B	161	GLN
1	B	226	GLN
1	B	248	ASN
1	B	260	GLN
1	B	280	ASN
1	B	308	ASN
1	B	327	GLN
1	B	358	GLN
1	B	368	GLN
1	B	428	GLN
1	B	446	HIS
1	B	512	GLN
1	C	56	HIS
1	C	77	HIS
1	C	101	GLN
1	C	127	HIS
1	C	134	GLN
1	C	161	GLN
1	C	226	GLN
1	C	248	ASN
1	C	260	GLN
1	C	280	ASN
1	C	308	ASN
1	C	327	GLN
1	C	368	GLN
1	C	428	GLN
1	C	446	HIS
1	C	485	HIS
1	C	512	GLN
1	D	56	HIS
1	D	77	HIS
1	D	101	GLN
1	D	127	HIS
1	D	134	GLN
1	D	161	GLN
1	D	226	GLN
1	D	248	ASN
1	D	260	GLN
1	D	280	ASN
1	D	308	ASN
1	D	327	GLN

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Mol	Chain	Res	Type
1	D	358	GLN
1	D	368	GLN
1	D	428	GLN
1	D	446	HIS
1	D	512	GLN
1	E	56	HIS
1	E	77	HIS
1	E	101	GLN
1	E	127	HIS
1	E	134	GLN
1	E	161	GLN
1	E	183	ASN
1	E	226	GLN
1	E	260	GLN
1	E	280	ASN
1	E	308	ASN
1	E	327	GLN
1	E	368	GLN
1	E	428	GLN
1	E	446	HIS
1	E	512	GLN
1	F	56	HIS
1	F	77	HIS
1	F	101	GLN
1	F	127	HIS
1	F	161	GLN
1	F	226	GLN
1	F	248	ASN
1	F	260	GLN
1	F	280	ASN
1	F	308	ASN
1	F	327	GLN
1	F	368	GLN
1	F	428	GLN
1	F	446	HIS
1	F	485	HIS
1	F	512	GLN
1	G	56	HIS
1	G	77	HIS
1	G	101	GLN
1	G	127	HIS
1	G	134	GLN

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Mol	Chain	Res	Type
1	G	161	GLN
1	G	226	GLN
1	G	248	ASN
1	G	260	GLN
1	G	280	ASN
1	G	308	ASN
1	G	327	GLN
1	G	368	GLN
1	G	446	HIS
1	G	485	HIS
1	G	512	GLN
1	H	56	HIS
1	H	77	HIS
1	H	101	GLN
1	H	127	HIS
1	H	161	GLN
1	H	226	GLN
1	H	260	GLN
1	H	280	ASN
1	H	308	ASN
1	H	327	GLN
1	H	358	GLN
1	H	368	GLN
1	H	428	GLN
1	H	446	HIS
1	H	512	GLN
1	I	56	HIS
1	I	77	HIS
1	I	101	GLN
1	I	127	HIS
1	I	161	GLN
1	I	183	ASN
1	I	226	GLN
1	I	248	ASN
1	I	260	GLN
1	I	280	ASN
1	I	308	ASN
1	I	327	GLN
1	I	358	GLN
1	I	368	GLN
1	I	428	GLN
1	I	446	HIS

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Mol	Chain	Res	Type
1	I	485	HIS
1	I	512	GLN
1	J	56	HIS
1	J	77	HIS
1	J	101	GLN
1	J	127	HIS
1	J	134	GLN
1	J	161	GLN
1	J	183	ASN
1	J	226	GLN
1	J	248	ASN
1	J	260	GLN
1	J	280	ASN
1	J	308	ASN
1	J	327	GLN
1	J	358	GLN
1	J	368	GLN
1	J	428	GLN
1	J	446	HIS
1	J	512	GLN
1	K	56	HIS
1	K	77	HIS
1	K	101	GLN
1	K	127	HIS
1	K	161	GLN
1	K	183	ASN
1	K	226	GLN
1	K	260	GLN
1	K	280	ASN
1	K	308	ASN
1	K	327	GLN
1	K	368	GLN
1	K	428	GLN
1	K	446	HIS
1	K	485	HIS
1	K	512	GLN
1	L	56	HIS
1	L	77	HIS
1	L	101	GLN
1	L	127	HIS
1	L	134	GLN
1	L	161	GLN

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Mol	Chain	Res	Type
1	L	183	ASN
1	L	226	GLN
1	L	248	ASN
1	L	260	GLN
1	L	280	ASN
1	L	308	ASN
1	L	327	GLN
1	L	358	GLN
1	L	368	GLN
1	L	428	GLN
1	L	446	HIS
1	L	485	HIS
1	L	512	GLN
1	M	56	HIS
1	M	77	HIS
1	M	101	GLN
1	M	127	HIS
1	M	161	GLN
1	M	226	GLN
1	M	248	ASN
1	M	260	GLN
1	M	280	ASN
1	M	308	ASN
1	M	327	GLN
1	M	368	GLN
1	M	446	HIS
1	M	485	HIS
1	M	512	GLN
1	N	56	HIS
1	N	77	HIS
1	N	101	GLN
1	N	127	HIS
1	N	134	GLN
1	N	161	GLN
1	N	183	ASN
1	N	226	GLN
1	N	248	ASN
1	N	260	GLN
1	N	280	ASN
1	N	308	ASN
1	N	327	GLN
1	N	368	GLN

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Mol	Chain	Res	Type
1	N	428	GLN
1	N	446	HIS
1	N	512	GLN
1	O	56	HIS
1	O	77	HIS
1	O	101	GLN
1	O	127	HIS
1	O	161	GLN
1	O	226	GLN
1	O	260	GLN
1	O	280	ASN
1	O	308	ASN
1	O	327	GLN
1	O	358	GLN
1	O	368	GLN
1	O	428	GLN
1	O	446	HIS
1	O	512	GLN
1	P	56	HIS
1	P	77	HIS
1	P	101	GLN
1	P	127	HIS
1	P	134	GLN
1	P	161	GLN
1	P	183	ASN
1	P	226	GLN
1	P	248	ASN
1	P	260	GLN
1	P	280	ASN
1	P	308	ASN
1	P	327	GLN
1	P	358	GLN
1	P	368	GLN
1	P	428	GLN
1	P	446	HIS
1	P	512	GLN
1	Q	56	HIS
1	Q	77	HIS
1	Q	101	GLN
1	Q	127	HIS
1	Q	134	GLN
1	Q	161	GLN

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Mol	Chain	Res	Type
1	Q	226	GLN
1	Q	248	ASN
1	Q	260	GLN
1	Q	280	ASN
1	Q	308	ASN
1	Q	327	GLN
1	Q	358	GLN
1	Q	368	GLN
1	Q	428	GLN
1	Q	446	HIS
1	Q	485	HIS
1	Q	512	GLN
1	R	56	HIS
1	R	77	HIS
1	R	101	GLN
1	R	127	HIS
1	R	134	GLN
1	R	161	GLN
1	R	226	GLN
1	R	248	ASN
1	R	260	GLN
1	R	280	ASN
1	R	308	ASN
1	R	327	GLN
1	R	358	GLN
1	R	368	GLN
1	R	428	GLN
1	R	446	HIS
1	R	485	HIS
1	R	512	GLN
1	S	56	HIS
1	S	77	HIS
1	S	101	GLN
1	S	127	HIS
1	S	134	GLN
1	S	161	GLN
1	S	183	ASN
1	S	226	GLN
1	S	248	ASN
1	S	260	GLN
1	S	280	ASN
1	S	308	ASN

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Mol	Chain	Res	Type
1	S	327	GLN
1	S	368	GLN
1	S	428	GLN
1	S	446	HIS
1	S	485	HIS
1	S	512	GLN
1	T	56	HIS
1	T	77	HIS
1	T	101	GLN
1	T	127	HIS
1	T	161	GLN
1	T	226	GLN
1	T	248	ASN
1	T	260	GLN
1	T	280	ASN
1	T	308	ASN
1	T	327	GLN
1	T	368	GLN
1	T	428	GLN
1	T	446	HIS
1	T	485	HIS
1	T	512	GLN
1	U	56	HIS
1	U	77	HIS
1	U	101	GLN
1	U	127	HIS
1	U	134	GLN
1	U	161	GLN
1	U	226	GLN
1	U	260	GLN
1	U	280	ASN
1	U	308	ASN
1	U	327	GLN
1	U	358	GLN
1	U	368	GLN
1	U	428	GLN
1	U	446	HIS
1	U	485	HIS
1	U	512	GLN
1	V	56	HIS
1	V	77	HIS
1	V	101	GLN

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Mol	Chain	Res	Type
1	V	127	HIS
1	V	134	GLN
1	V	161	GLN
1	V	226	GLN
1	V	248	ASN
1	V	260	GLN
1	V	280	ASN
1	V	308	ASN
1	V	327	GLN
1	V	358	GLN
1	V	368	GLN
1	V	428	GLN
1	V	446	HIS
1	V	485	HIS
1	V	512	GLN
1	W	56	HIS
1	W	77	HIS
1	W	101	GLN
1	W	127	HIS
1	W	161	GLN
1	W	183	ASN
1	W	226	GLN
1	W	248	ASN
1	W	260	GLN
1	W	280	ASN
1	W	308	ASN
1	W	327	GLN
1	W	358	GLN
1	W	368	GLN
1	W	428	GLN
1	W	446	HIS
1	W	485	HIS
1	W	512	GLN
1	X	56	HIS
1	X	77	HIS
1	X	101	GLN
1	X	127	HIS
1	X	134	GLN
1	X	161	GLN
1	X	226	GLN
1	X	248	ASN
1	X	260	GLN

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Mol	Chain	Res	Type
1	X	280	ASN
1	X	308	ASN
1	X	327	GLN
1	X	358	GLN
1	X	368	GLN
1	X	428	GLN
1	X	446	HIS
1	X	512	GLN
1	Y	56	HIS
1	Y	77	HIS
1	Y	101	GLN
1	Y	127	HIS
1	Y	134	GLN
1	Y	161	GLN
1	Y	226	GLN
1	Y	260	GLN
1	Y	280	ASN
1	Y	308	ASN
1	Y	327	GLN
1	Y	358	GLN
1	Y	368	GLN
1	Y	428	GLN
1	Y	446	HIS
1	Y	485	HIS
1	Y	512	GLN
1	Z	56	HIS
1	Z	77	HIS
1	Z	101	GLN
1	Z	127	HIS
1	Z	161	GLN
1	Z	183	ASN
1	Z	226	GLN
1	Z	248	ASN
1	Z	260	GLN
1	Z	280	ASN
1	Z	308	ASN
1	Z	327	GLN
1	Z	368	GLN
1	Z	428	GLN
1	Z	446	HIS
1	Z	512	GLN
1	a	56	HIS

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Mol	Chain	Res	Type
1	a	77	HIS
1	a	101	GLN
1	a	127	HIS
1	a	134	GLN
1	a	161	GLN
1	a	183	ASN
1	a	226	GLN
1	a	248	ASN
1	a	260	GLN
1	a	280	ASN
1	a	308	ASN
1	a	327	GLN
1	a	368	GLN
1	a	428	GLN
1	a	446	HIS
1	a	512	GLN
1	b	56	HIS
1	b	77	HIS
1	b	101	GLN
1	b	127	HIS
1	b	134	GLN
1	b	161	GLN
1	b	226	GLN
1	b	248	ASN
1	b	260	GLN
1	b	280	ASN
1	b	308	ASN
1	b	327	GLN
1	b	358	GLN
1	b	368	GLN
1	b	446	HIS
1	b	485	HIS
1	b	512	GLN
1	c	56	HIS
1	c	77	HIS
1	c	101	GLN
1	c	127	HIS
1	c	161	GLN
1	c	226	GLN
1	c	260	GLN
1	c	280	ASN
1	c	308	ASN

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Mol	Chain	Res	Type
1	c	327	GLN
1	c	358	GLN
1	c	368	GLN
1	c	428	GLN
1	c	446	HIS
1	c	485	HIS
1	c	512	GLN
1	d	56	HIS
1	d	77	HIS
1	d	101	GLN
1	d	127	HIS
1	d	161	GLN
1	d	226	GLN
1	d	248	ASN
1	d	260	GLN
1	d	280	ASN
1	d	308	ASN
1	d	327	GLN
1	d	358	GLN
1	d	368	GLN
1	d	428	GLN
1	d	446	HIS
1	d	485	HIS
1	d	512	GLN
1	e	56	HIS
1	e	77	HIS
1	e	101	GLN
1	e	127	HIS
1	e	161	GLN
1	e	226	GLN
1	e	260	GLN
1	e	280	ASN
1	e	308	ASN
1	e	327	GLN
1	e	368	GLN
1	e	428	GLN
1	e	446	HIS
1	e	485	HIS
1	e	512	GLN
1	f	56	HIS
1	f	77	HIS
1	f	101	GLN

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Mol	Chain	Res	Type
1	f	127	HIS
1	f	134	GLN
1	f	161	GLN
1	f	226	GLN
1	f	248	ASN
1	f	260	GLN
1	f	280	ASN
1	f	308	ASN
1	f	327	GLN
1	f	358	GLN
1	f	368	GLN
1	f	446	HIS
1	f	485	HIS
1	f	512	GLN
1	g	56	HIS
1	g	77	HIS
1	g	101	GLN
1	g	127	HIS
1	g	161	GLN
1	g	226	GLN
1	g	248	ASN
1	g	260	GLN
1	g	280	ASN
1	g	308	ASN
1	g	327	GLN
1	g	368	GLN
1	g	428	GLN
1	g	446	HIS
1	g	512	GLN
1	h	56	HIS
1	h	77	HIS
1	h	101	GLN
1	h	127	HIS
1	h	161	GLN
1	h	226	GLN
1	h	248	ASN
1	h	260	GLN
1	h	280	ASN
1	h	308	ASN
1	h	327	GLN
1	h	368	GLN
1	h	428	GLN

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Mol	Chain	Res	Type
1	h	446	HIS
1	h	485	HIS
1	h	512	GLN
1	i	56	HIS
1	i	77	HIS
1	i	101	GLN
1	i	127	HIS
1	i	134	GLN
1	i	161	GLN
1	i	226	GLN
1	i	248	ASN
1	i	260	GLN
1	i	280	ASN
1	i	308	ASN
1	i	327	GLN
1	i	368	GLN
1	i	428	GLN
1	i	446	HIS
1	i	485	HIS
1	i	512	GLN
1	j	56	HIS
1	j	77	HIS
1	j	101	GLN
1	j	127	HIS
1	j	161	GLN
1	j	183	ASN
1	j	226	GLN
1	j	248	ASN
1	j	260	GLN
1	j	280	ASN
1	j	308	ASN
1	j	327	GLN
1	j	358	GLN
1	j	368	GLN
1	j	428	GLN
1	j	446	HIS
1	j	512	GLN
1	k	56	HIS
1	k	77	HIS
1	k	101	GLN
1	k	127	HIS
1	k	134	GLN

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Mol	Chain	Res	Type
1	k	161	GLN
1	k	183	ASN
1	k	226	GLN
1	k	248	ASN
1	k	260	GLN
1	k	280	ASN
1	k	308	ASN
1	k	327	GLN
1	k	368	GLN
1	k	428	GLN
1	k	446	HIS
1	k	512	GLN
1	l	56	HIS
1	l	77	HIS
1	l	101	GLN
1	l	127	HIS
1	l	161	GLN
1	l	226	GLN
1	l	260	GLN
1	l	280	ASN
1	l	308	ASN
1	l	327	GLN
1	l	358	GLN
1	l	368	GLN
1	l	428	GLN
1	l	446	HIS
1	l	485	HIS
1	l	512	GLN
1	m	56	HIS
1	m	77	HIS
1	m	101	GLN
1	m	127	HIS
1	m	161	GLN
1	m	226	GLN
1	m	248	ASN
1	m	260	GLN
1	m	280	ASN
1	m	308	ASN
1	m	327	GLN
1	m	368	GLN
1	m	428	GLN
1	m	446	HIS

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Mol	Chain	Res	Type
1	m	485	HIS
1	m	512	GLN
1	n	56	HIS
1	n	77	HIS
1	n	101	GLN
1	n	127	HIS
1	n	161	GLN
1	n	226	GLN
1	n	248	ASN
1	n	260	GLN
1	n	280	ASN
1	n	308	ASN
1	n	327	GLN
1	n	368	GLN
1	n	428	GLN
1	n	446	HIS
1	n	485	HIS
1	n	512	GLN
1	o	56	HIS
1	o	77	HIS
1	o	101	GLN
1	o	127	HIS
1	o	134	GLN
1	o	161	GLN
1	o	226	GLN
1	o	248	ASN
1	o	260	GLN
1	o	280	ASN
1	o	308	ASN
1	o	327	GLN
1	o	358	GLN
1	o	368	GLN
1	o	428	GLN
1	o	446	HIS
1	o	485	HIS
1	o	512	GLN
1	p	56	HIS
1	p	77	HIS
1	p	101	GLN
1	p	127	HIS
1	p	134	GLN
1	p	161	GLN

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Mol	Chain	Res	Type
1	p	226	GLN
1	p	248	ASN
1	p	260	GLN
1	p	280	ASN
1	p	308	ASN
1	p	327	GLN
1	p	358	GLN
1	p	368	GLN
1	p	428	GLN
1	p	446	HIS
1	p	485	HIS
1	p	512	GLN
1	q	56	HIS
1	q	77	HIS
1	q	101	GLN
1	q	127	HIS
1	q	134	GLN
1	q	161	GLN
1	q	226	GLN
1	q	260	GLN
1	q	280	ASN
1	q	308	ASN
1	q	327	GLN
1	q	358	GLN
1	q	368	GLN
1	q	428	GLN
1	q	446	HIS
1	q	485	HIS
1	q	512	GLN
1	r	56	HIS
1	r	77	HIS
1	r	101	GLN
1	r	127	HIS
1	r	134	GLN
1	r	161	GLN
1	r	226	GLN
1	r	248	ASN
1	r	260	GLN
1	r	280	ASN
1	r	308	ASN
1	r	327	GLN
1	r	368	GLN

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Mol	Chain	Res	Type
1	r	428	GLN
1	r	446	HIS
1	r	512	GLN
1	s	56	HIS
1	s	77	HIS
1	s	101	GLN
1	s	127	HIS
1	s	134	GLN
1	s	161	GLN
1	s	226	GLN
1	s	260	GLN
1	s	280	ASN
1	s	308	ASN
1	s	327	GLN
1	s	358	GLN
1	s	368	GLN
1	s	428	GLN
1	s	446	HIS
1	s	485	HIS
1	s	512	GLN
1	t	56	HIS
1	t	77	HIS
1	t	101	GLN
1	t	127	HIS
1	t	134	GLN
1	t	161	GLN
1	t	226	GLN
1	t	248	ASN
1	t	260	GLN
1	t	280	ASN
1	t	308	ASN
1	t	327	GLN
1	t	368	GLN
1	t	446	HIS
1	t	485	HIS
1	t	512	GLN
1	u	56	HIS
1	u	77	HIS
1	u	101	GLN
1	u	127	HIS
1	u	161	GLN
1	u	183	ASN

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Mol	Chain	Res	Type
1	u	226	GLN
1	u	248	ASN
1	u	260	GLN
1	u	280	ASN
1	u	308	ASN
1	u	327	GLN
1	u	358	GLN
1	u	368	GLN
1	u	428	GLN
1	u	446	HIS
1	u	485	HIS
1	u	512	GLN
1	v	56	HIS
1	v	77	HIS
1	v	101	GLN
1	v	127	HIS
1	v	134	GLN
1	v	161	GLN
1	v	226	GLN
1	v	248	ASN
1	v	260	GLN
1	v	280	ASN
1	v	308	ASN
1	v	327	GLN
1	v	368	GLN
1	v	428	GLN
1	v	446	HIS
1	v	485	HIS
1	v	512	GLN
1	w	56	HIS
1	w	77	HIS
1	w	101	GLN
1	w	127	HIS
1	w	134	GLN
1	w	161	GLN
1	w	183	ASN
1	w	226	GLN
1	w	260	GLN
1	w	280	ASN
1	w	308	ASN
1	w	327	GLN
1	w	368	GLN

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Mol	Chain	Res	Type
1	w	446	HIS
1	w	512	GLN
1	x	56	HIS
1	x	77	HIS
1	x	101	GLN
1	x	127	HIS
1	x	134	GLN
1	x	161	GLN
1	x	226	GLN
1	x	248	ASN
1	x	260	GLN
1	x	280	ASN
1	x	308	ASN
1	x	327	GLN
1	x	358	GLN
1	x	368	GLN
1	x	428	GLN
1	x	446	HIS
1	x	485	HIS
1	x	512	GLN
1	y	56	HIS
1	y	77	HIS
1	y	101	GLN
1	y	127	HIS
1	y	161	GLN
1	y	226	GLN
1	y	248	ASN
1	y	260	GLN
1	y	280	ASN
1	y	308	ASN
1	y	327	GLN
1	y	368	GLN
1	y	428	GLN
1	y	446	HIS
1	y	485	HIS
1	y	512	GLN
1	z	56	HIS
1	z	77	HIS
1	z	101	GLN
1	z	127	HIS
1	z	134	GLN
1	z	161	GLN

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Mol	Chain	Res	Type
1	z	183	ASN
1	z	226	GLN
1	z	248	ASN
1	z	260	GLN
1	z	280	ASN
1	z	308	ASN
1	z	327	GLN
1	z	358	GLN
1	z	368	GLN
1	z	428	GLN
1	z	446	HIS
1	z	485	HIS
1	z	512	GLN
1	1	56	HIS
1	1	77	HIS
1	1	101	GLN
1	1	127	HIS
1	1	134	GLN
1	1	161	GLN
1	1	226	GLN
1	1	248	ASN
1	1	260	GLN
1	1	280	ASN
1	1	308	ASN
1	1	327	GLN
1	1	358	GLN
1	1	368	GLN
1	1	428	GLN
1	1	446	HIS
1	1	512	GLN
1	2	56	HIS
1	2	77	HIS
1	2	101	GLN
1	2	127	HIS
1	2	134	GLN
1	2	161	GLN
1	2	183	ASN
1	2	226	GLN
1	2	248	ASN
1	2	260	GLN
1	2	280	ASN
1	2	308	ASN

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Mol	Chain	Res	Type
1	2	327	GLN
1	2	358	GLN
1	2	368	GLN
1	2	428	GLN
1	2	446	HIS
1	2	512	GLN
1	3	56	HIS
1	3	77	HIS
1	3	101	GLN
1	3	127	HIS
1	3	134	GLN
1	3	161	GLN
1	3	183	ASN
1	3	226	GLN
1	3	248	ASN
1	3	260	GLN
1	3	280	ASN
1	3	308	ASN
1	3	327	GLN
1	3	368	GLN
1	3	428	GLN
1	3	446	HIS
1	3	512	GLN
1	4	56	HIS
1	4	77	HIS
1	4	101	GLN
1	4	127	HIS
1	4	161	GLN
1	4	183	ASN
1	4	226	GLN
1	4	260	GLN
1	4	280	ASN
1	4	308	ASN
1	4	327	GLN
1	4	368	GLN
1	4	428	GLN
1	4	446	HIS
1	4	485	HIS
1	4	512	GLN
1	5	56	HIS
1	5	77	HIS
1	5	101	GLN

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Mol	Chain	Res	Type
1	5	127	HIS
1	5	161	GLN
1	5	226	GLN
1	5	248	ASN
1	5	260	GLN
1	5	280	ASN
1	5	308	ASN
1	5	327	GLN
1	5	358	GLN
1	5	368	GLN
1	5	428	GLN
1	5	446	HIS
1	5	485	HIS
1	5	512	GLN
1	6	56	HIS
1	6	77	HIS
1	6	101	GLN
1	6	127	HIS
1	6	161	GLN
1	6	183	ASN
1	6	226	GLN
1	6	248	ASN
1	6	260	GLN
1	6	280	ASN
1	6	308	ASN
1	6	327	GLN
1	6	358	GLN
1	6	368	GLN
1	6	428	GLN
1	6	446	HIS
1	6	485	HIS
1	6	512	GLN
1	7	56	HIS
1	7	77	HIS
1	7	101	GLN
1	7	127	HIS
1	7	134	GLN
1	7	161	GLN
1	7	226	GLN
1	7	260	GLN
1	7	280	ASN
1	7	308	ASN

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Mol	Chain	Res	Type
1	7	327	GLN
1	7	358	GLN
1	7	368	GLN
1	7	428	GLN
1	7	446	HIS
1	7	485	HIS
1	7	512	GLN
1	8	56	HIS
1	8	77	HIS
1	8	101	GLN
1	8	127	HIS
1	8	134	GLN
1	8	161	GLN
1	8	183	ASN
1	8	226	GLN
1	8	248	ASN
1	8	260	GLN
1	8	280	ASN
1	8	308	ASN
1	8	327	GLN
1	8	358	GLN
1	8	368	GLN
1	8	428	GLN
1	8	446	HIS
1	8	512	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 120 ligands modelled in this entry, 120 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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.

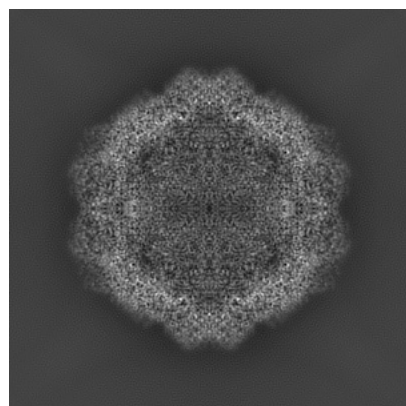
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-48927. These allow visual inspection of the internal detail of the map and identification of artifacts.

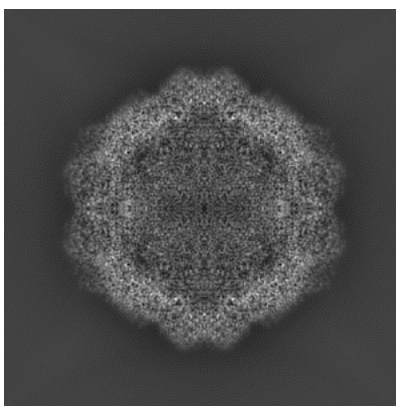
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

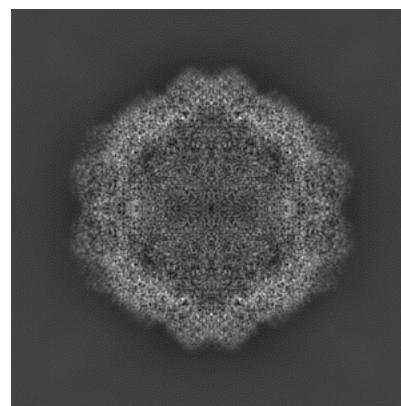
6.1.1 Primary map



X

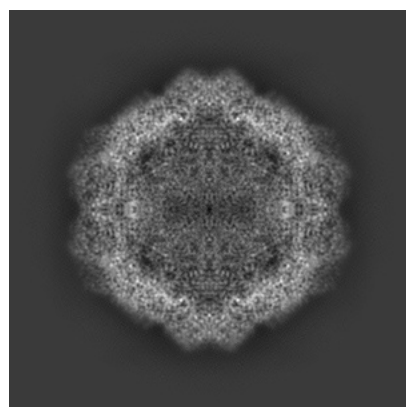


Y

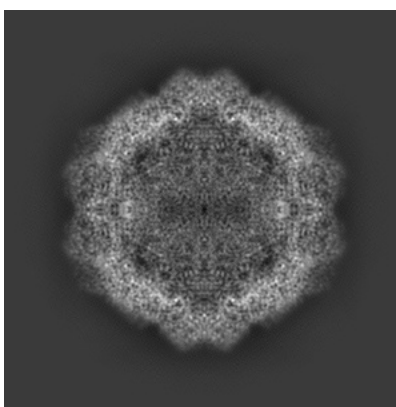


Z

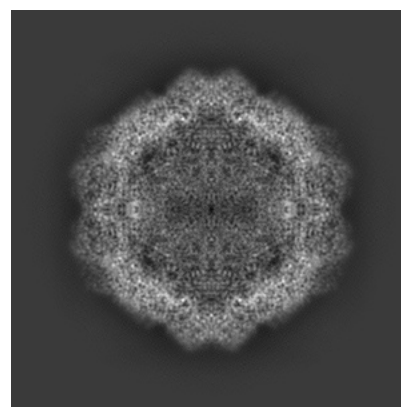
6.1.2 Raw map



X



Y

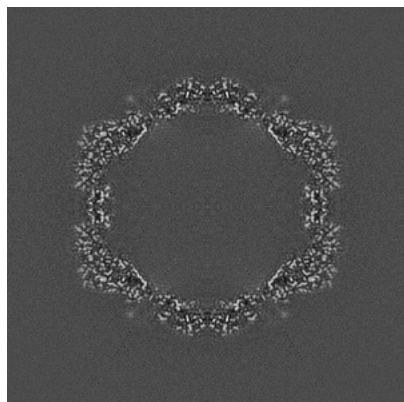


Z

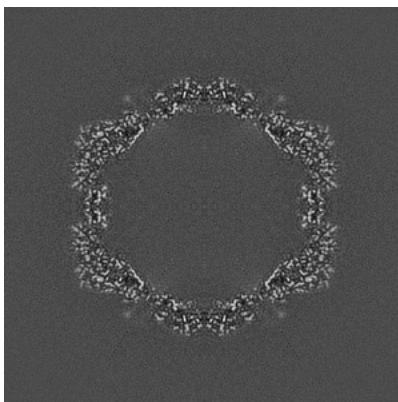
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

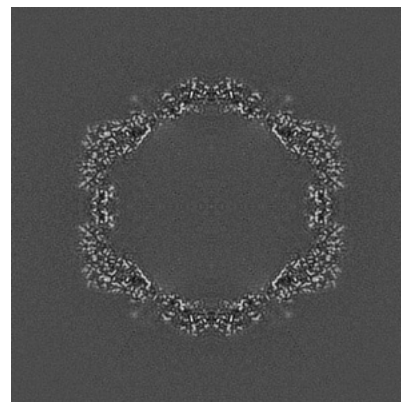
6.2.1 Primary map



X Index: 250

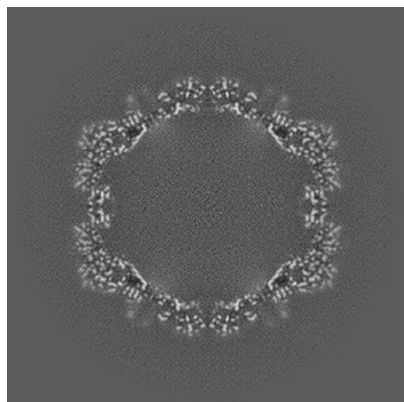


Y Index: 250

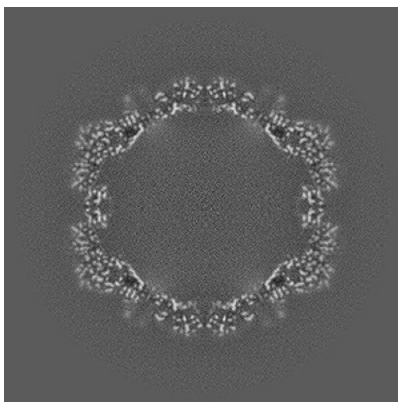


Z Index: 250

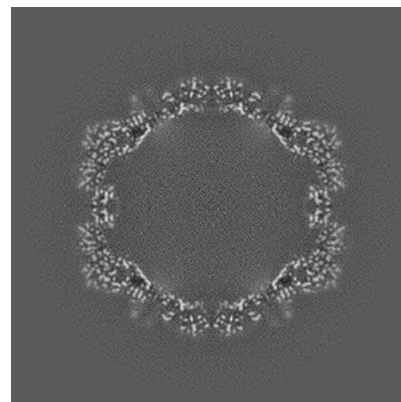
6.2.2 Raw map



X Index: 250



Y Index: 250

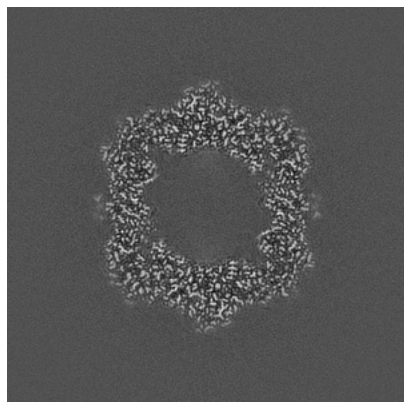


Z Index: 250

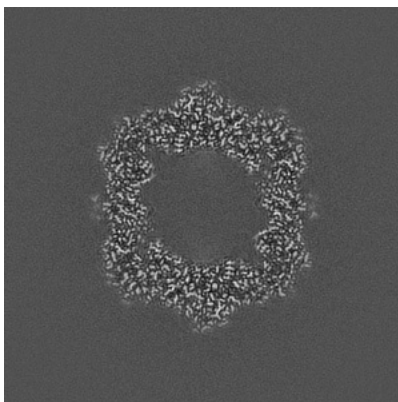
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

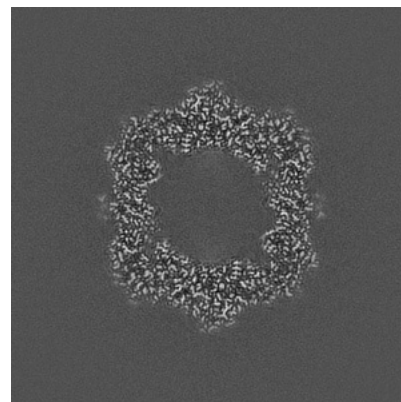
6.3.1 Primary map



X Index: 343

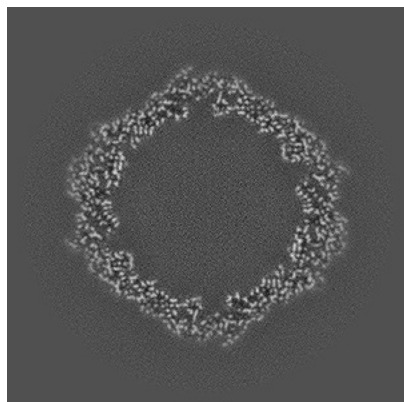


Y Index: 343

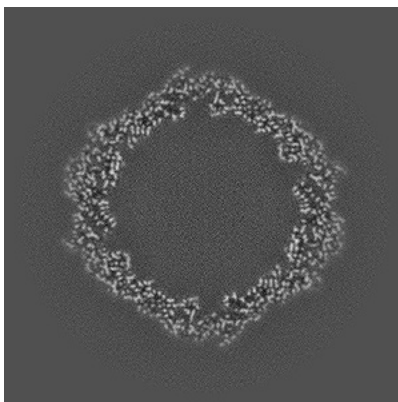


Z Index: 343

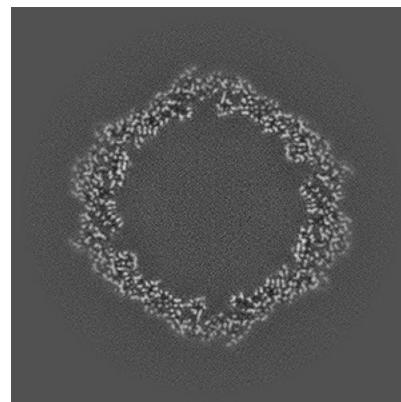
6.3.2 Raw map



X Index: 279



Y Index: 279

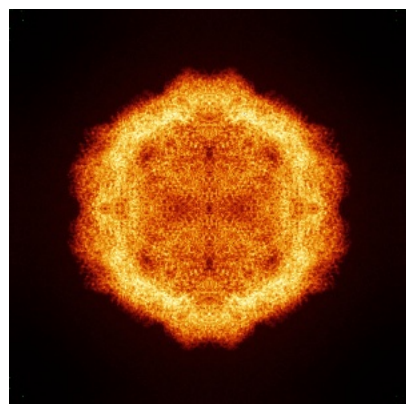


Z Index: 279

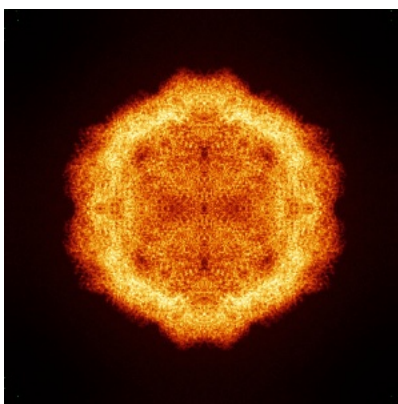
The images above show the largest variance slices of the map in three orthogonal directions.

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

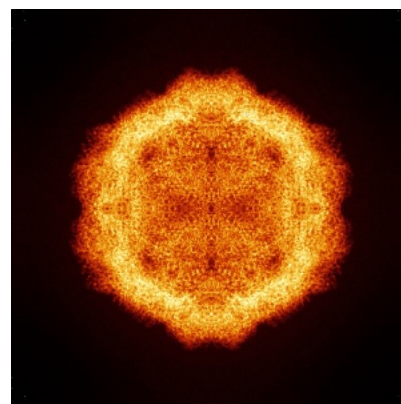
6.4.1 Primary map



X

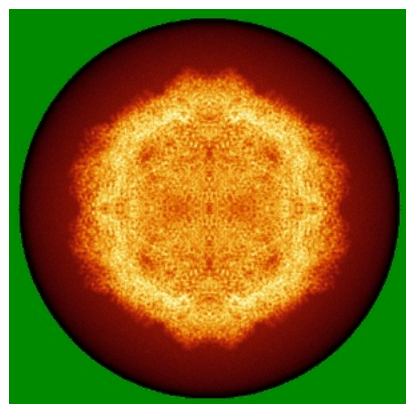


Y

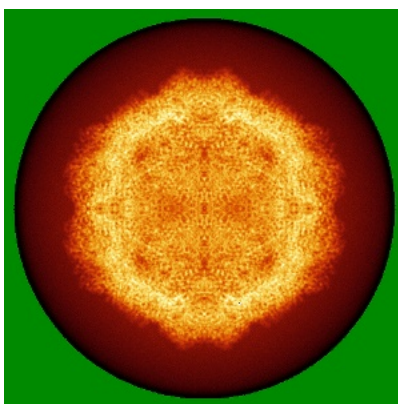


Z

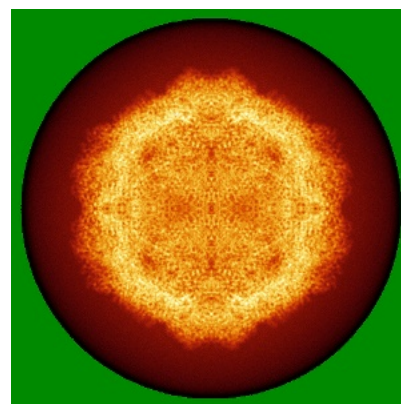
6.4.2 Raw map



X



Y

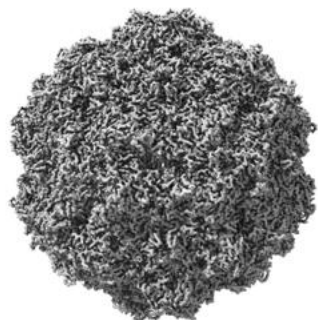


Z

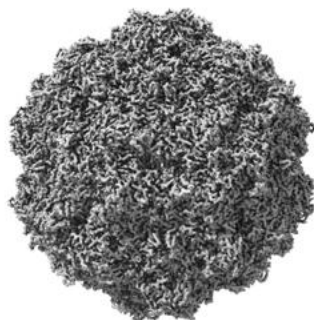
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X



Y



Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

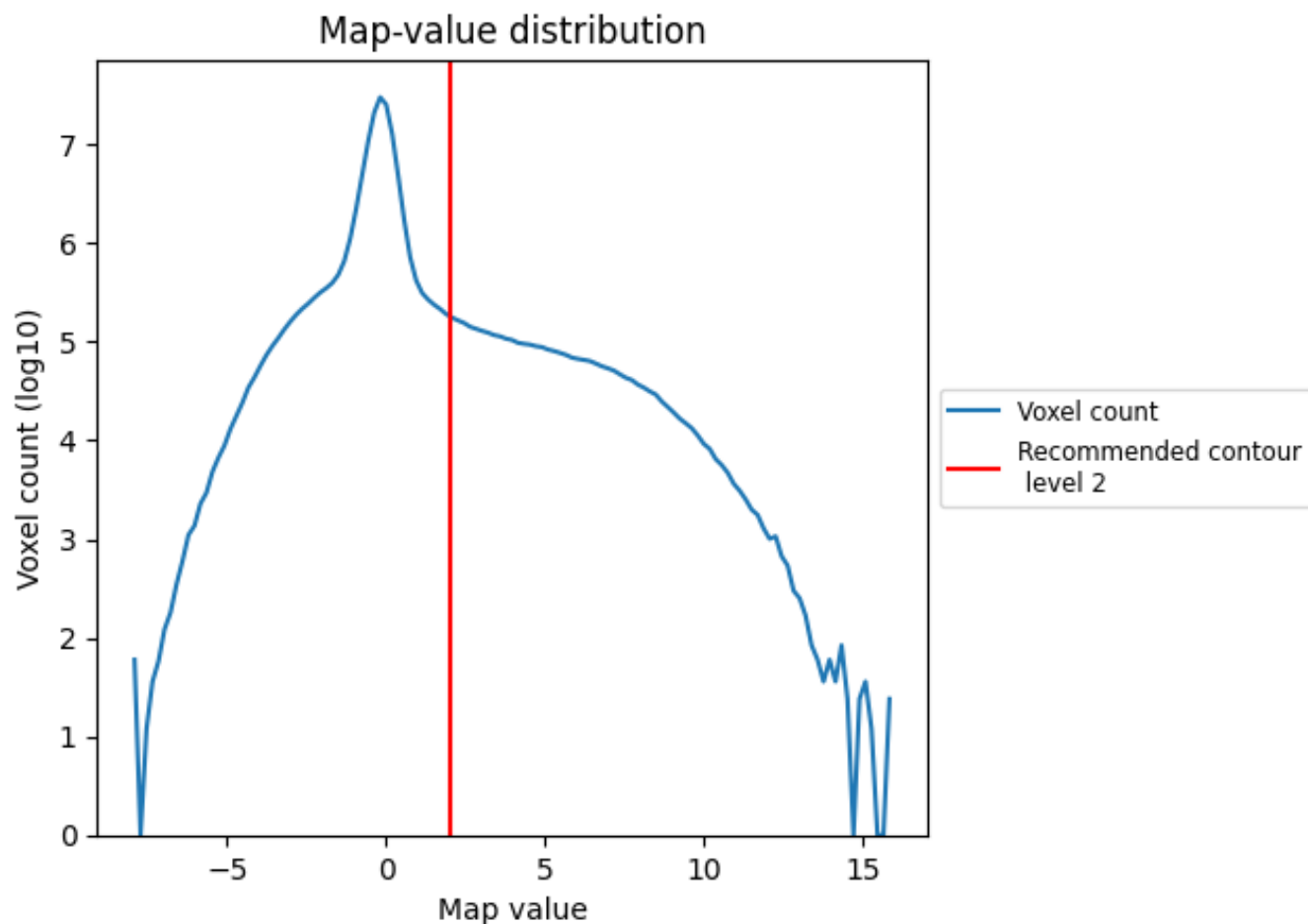
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

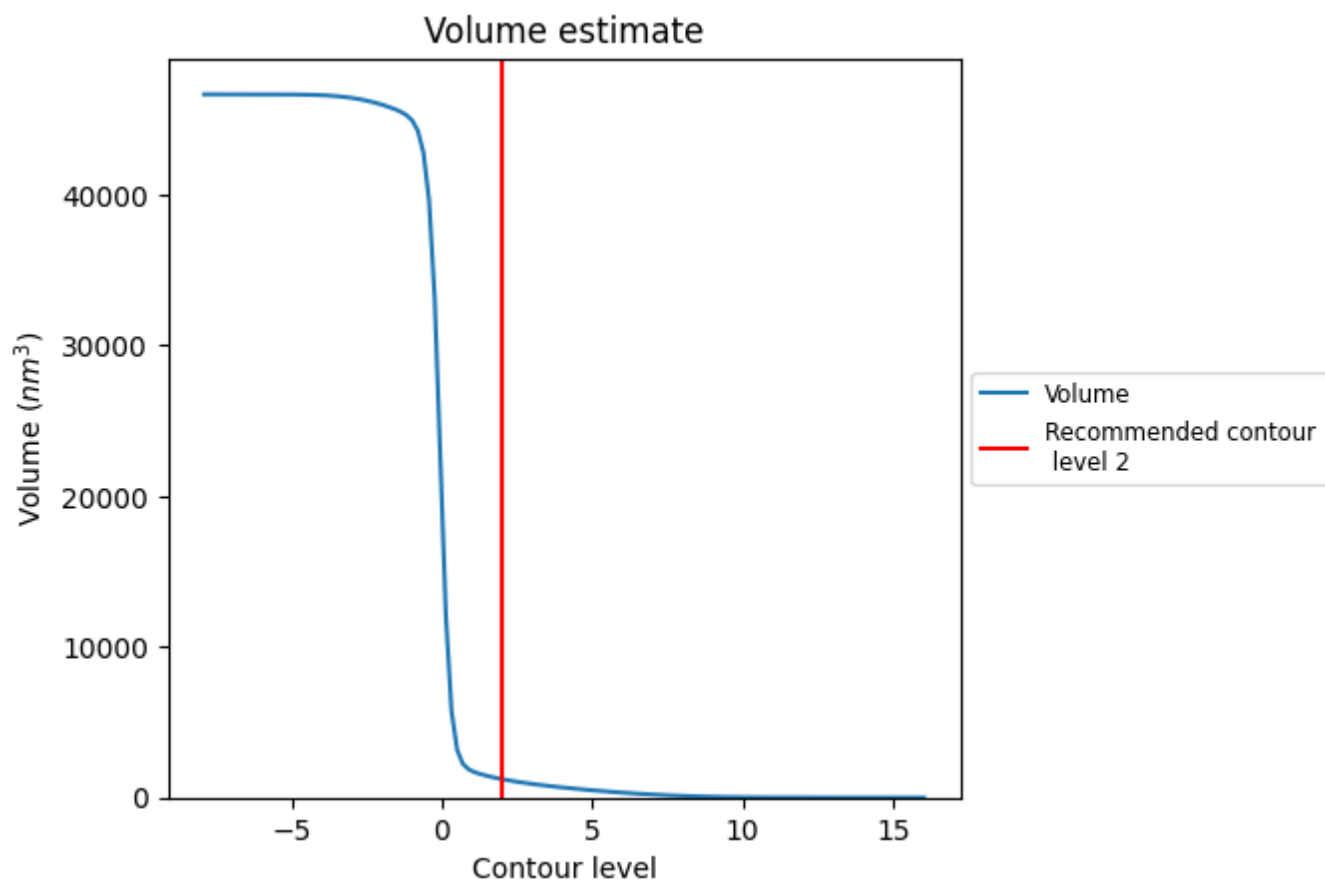
This section contains the results of statistical analysis of the map.

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.

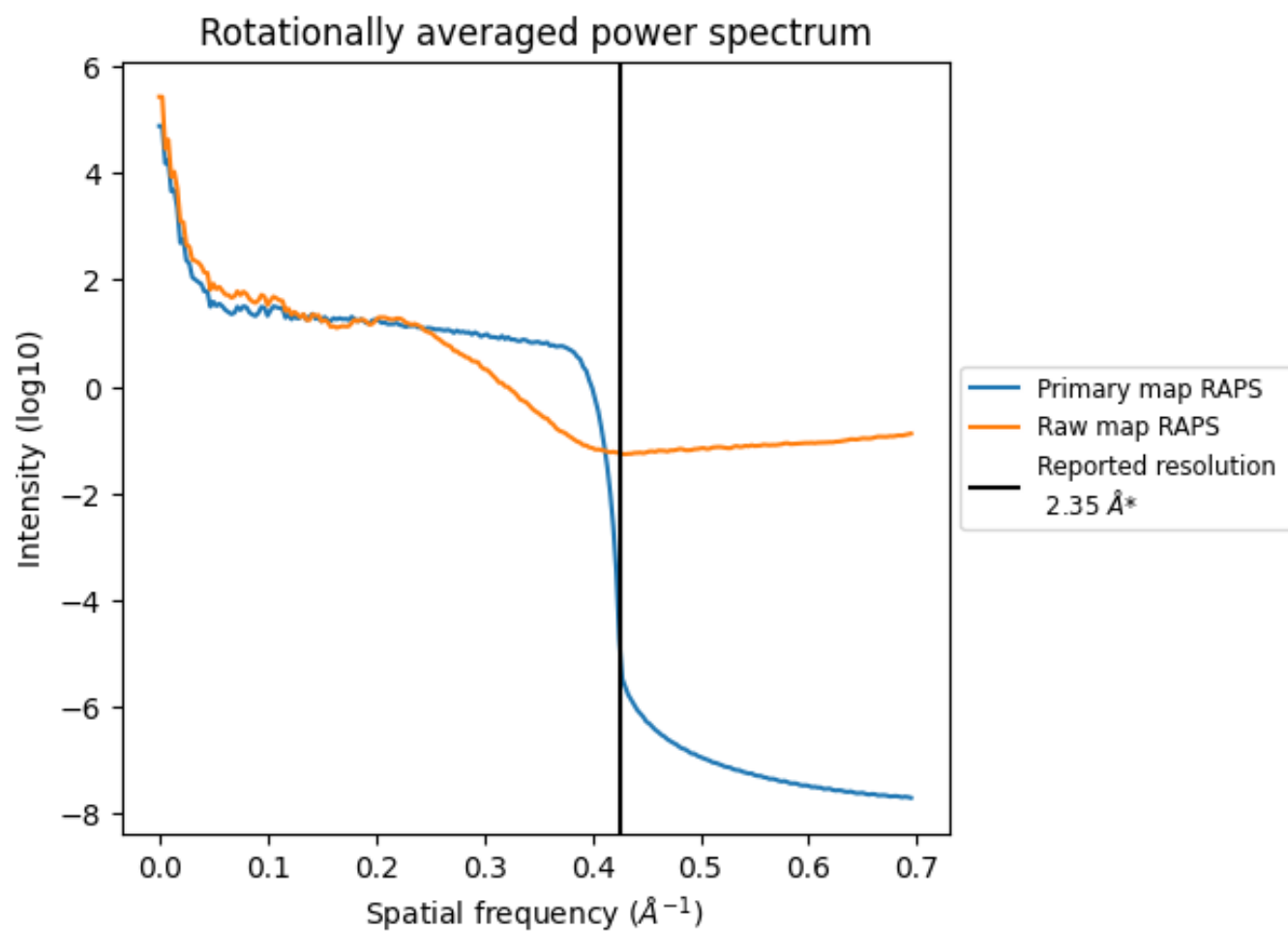
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1218 nm^3 ; this corresponds to an approximate mass of 1100 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 [i](#)

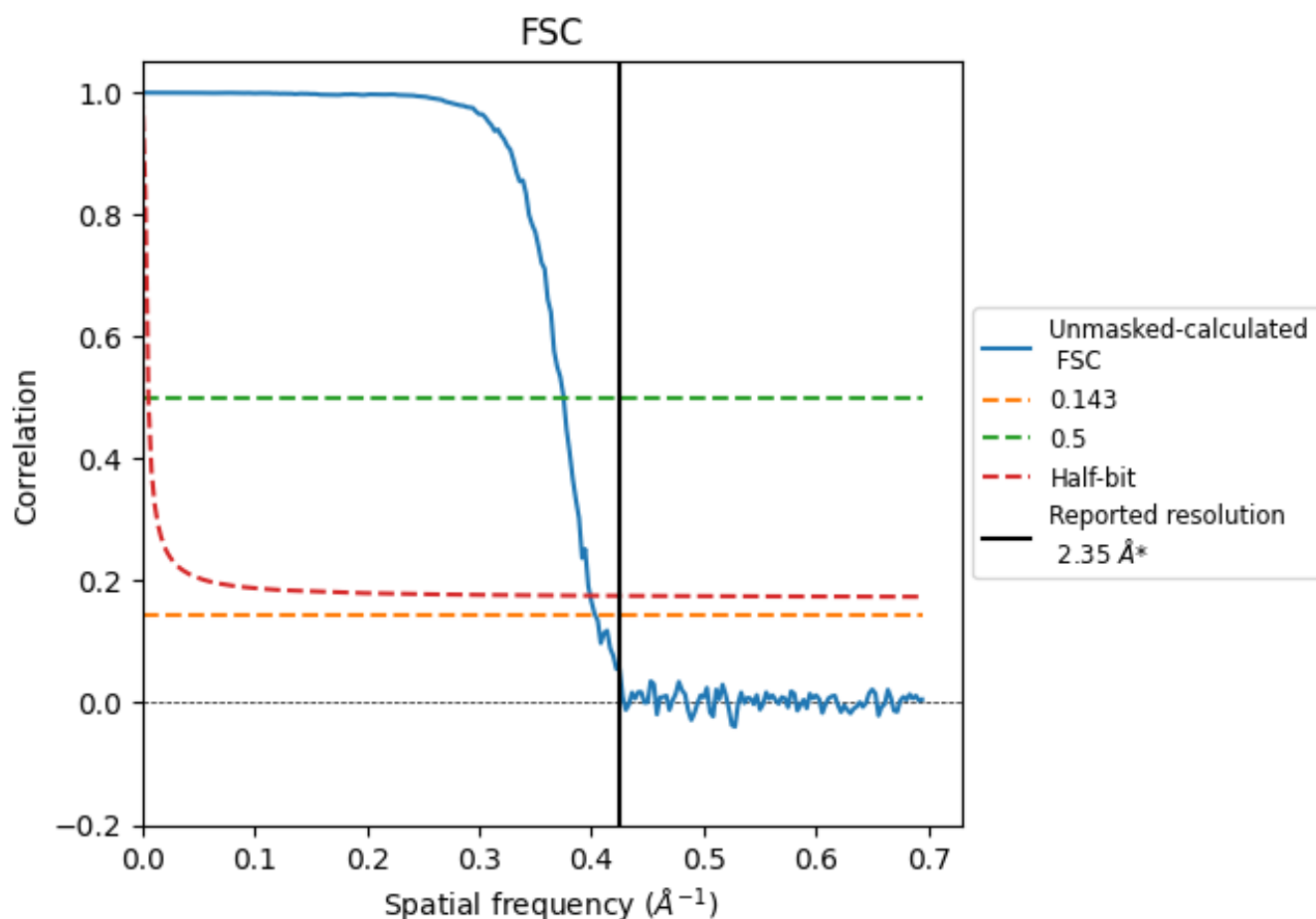


*Reported resolution corresponds to spatial frequency of 0.426 Å⁻¹

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.426 \AA^{-1}

8.2 Resolution estimates [i](#)

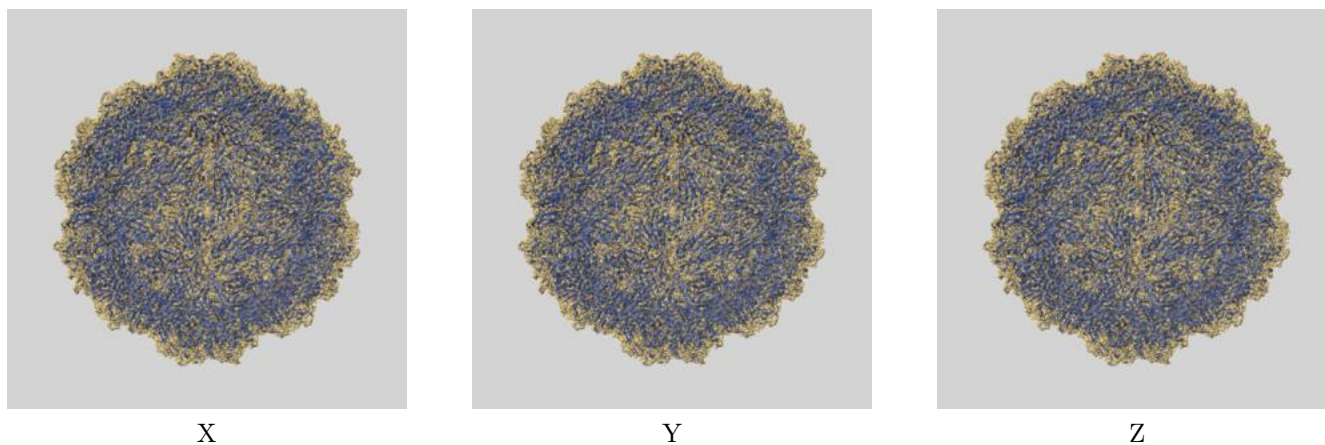
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.35	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.48	2.67	2.51

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

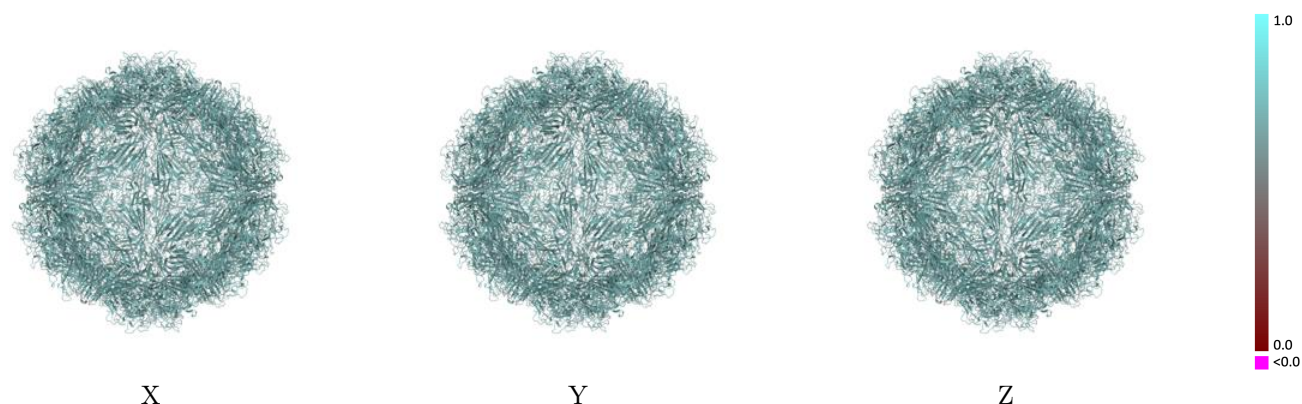
This section contains information regarding the fit between EMDB map EMD-48927 and PDB model 9N5M. Per-residue inclusion information can be found in section 3 on page 12.

9.1 Map-model overlay [i](#)



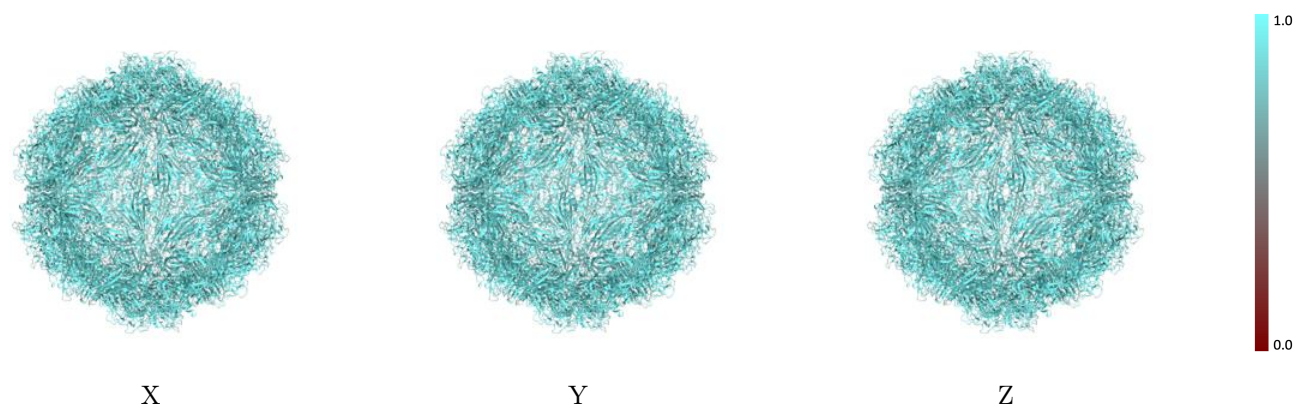
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



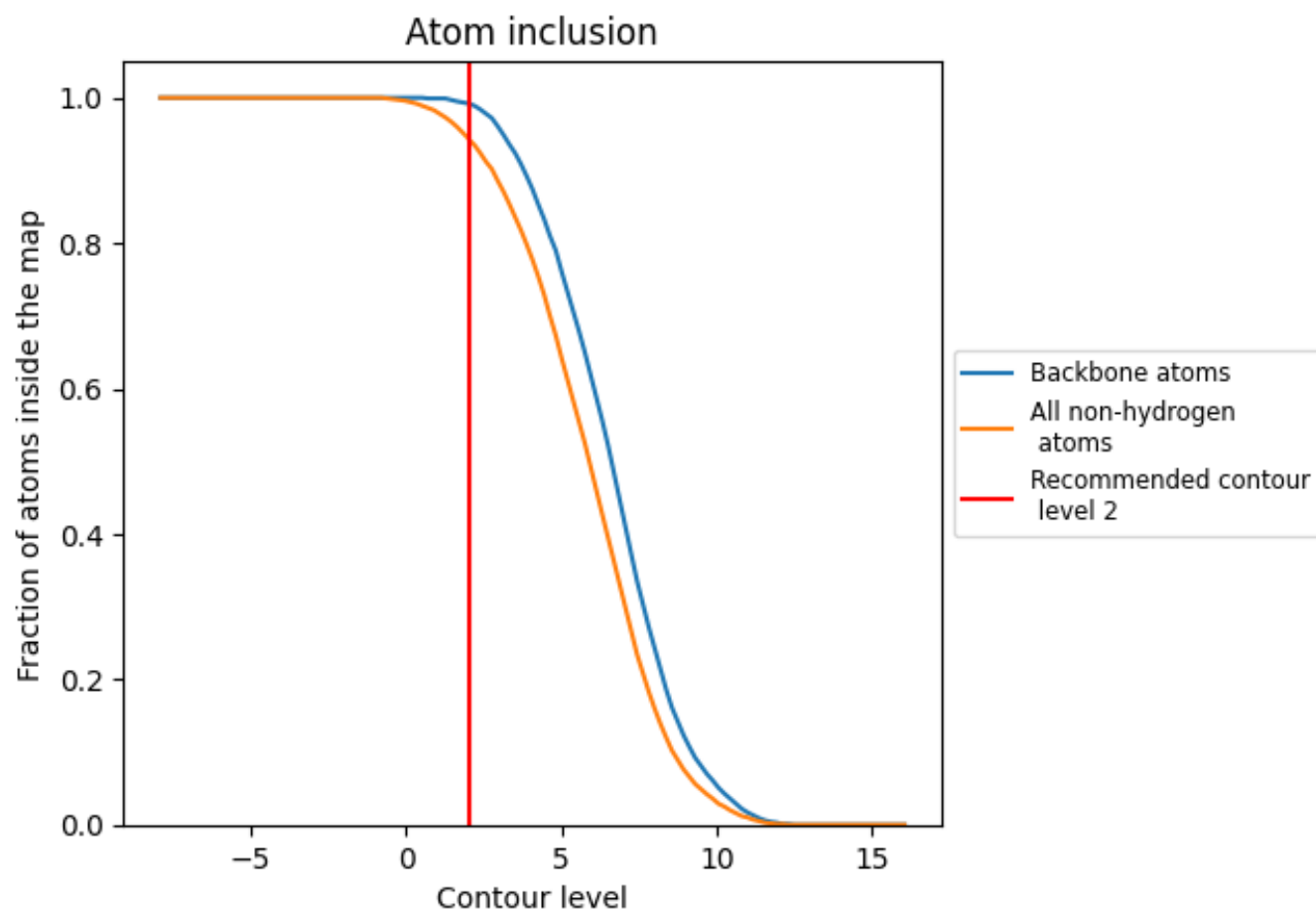
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 99% of all backbone atoms, 94% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ





















































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

Chain	Atom inclusion	Q-score
All	 0.9440	 0.6820
1	 0.9450	 0.6830
2	 0.9450	 0.6830
3	 0.9430	 0.6830
4	 0.9420	 0.6820
5	 0.9440	 0.6820
6	 0.9450	 0.6820
7	 0.9450	 0.6820
8	 0.9430	 0.6810
A	 0.9430	 0.6810
B	 0.9450	 0.6830
C	 0.9420	 0.6820
D	 0.9450	 0.6820
E	 0.9430	 0.6820
F	 0.9430	 0.6820
G	 0.9430	 0.6810
H	 0.9450	 0.6820
I	 0.9420	 0.6810
J	 0.9450	 0.6830
K	 0.9420	 0.6820
L	 0.9450	 0.6820
M	 0.9430	 0.6830
N	 0.9450	 0.6820
O	 0.9430	 0.6830
P	 0.9450	 0.6820
Q	 0.9420	 0.6820
R	 0.9450	 0.6830
S	 0.9450	 0.6820
T	 0.9420	 0.6830
U	 0.9450	 0.6820
V	 0.9420	 0.6820
W	 0.9450	 0.6820
X	 0.9430	 0.6820
Y	 0.9450	 0.6810
Z	 0.9430	 0.6820



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Chain	Atom inclusion	Q-score
a	 0.9430	 0.6820
b	 0.9430	 0.6820
c	 0.9430	 0.6820
d	 0.9430	 0.6830
e	 0.9430	 0.6820
f	 0.9430	 0.6820
g	 0.9420	 0.6820
h	 0.9430	 0.6830
i	 0.9450	 0.6820
j	 0.9450	 0.6820
k	 0.9450	 0.6830
l	 0.9430	 0.6830
m	 0.9420	 0.6830
n	 0.9430	 0.6830
o	 0.9430	 0.6820
p	 0.9420	 0.6820
q	 0.9450	 0.6820
r	 0.9450	 0.6830
s	 0.9450	 0.6820
t	 0.9430	 0.6820
u	 0.9420	 0.6820
v	 0.9430	 0.6820
w	 0.9430	 0.6810
x	 0.9420	 0.6820
y	 0.9430	 0.6810
z	 0.9450	 0.6820