



## Full wwPDB EM Validation Report ⓘ

May 14, 2025 – 04:53 AM EDT

PDB ID : 8TU0 / pdb\_00008tu0  
EMDB ID : EMD-41614  
Title : The Capsid of Canine Minute Virus  
Authors : Velez, M.; Mietzsch, M.; McKenna, R.  
Deposited on : 2023-08-15  
Resolution : 2.72 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](mailto: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>.

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

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

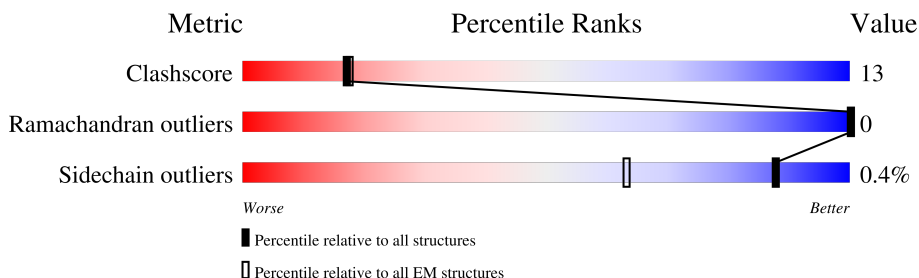
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 2.72 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.









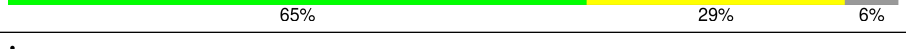
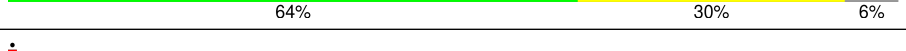
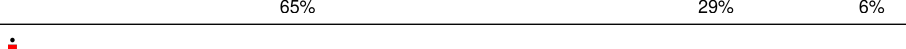
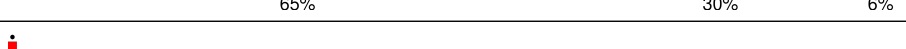
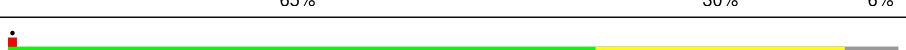

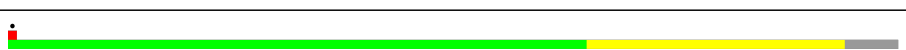

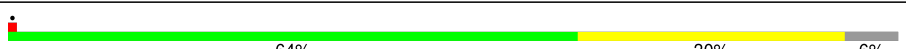





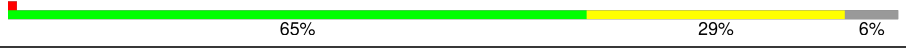
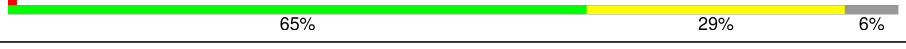



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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  $\geq 3$ , 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	571	
1	2	571	
1	3	571	
1	4	571	
1	5	571	
1	6	571	
1	7	571	
1	8	571	







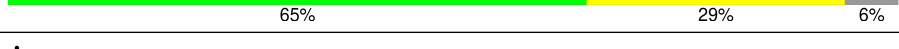
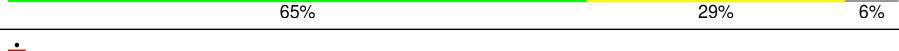
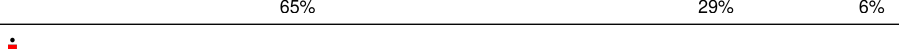
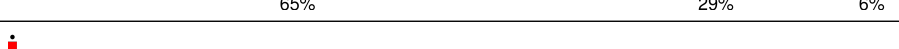
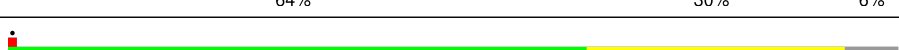

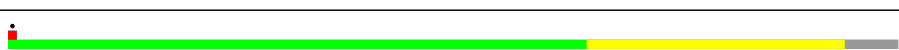

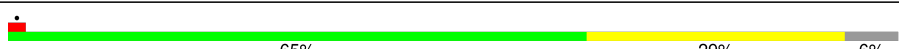





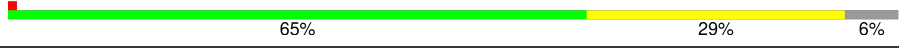
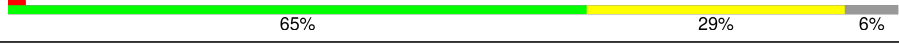



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Mol	Chain	Length	Quality of chain
1	A	571	
1	B	571	
1	C	571	
1	D	571	
1	E	571	
1	F	571	
1	G	571	
1	H	571	
1	I	571	
1	J	571	
1	K	571	
1	L	571	
1	M	571	
1	N	571	
1	O	571	
1	P	571	
1	Q	571	
1	R	571	
1	S	571	
1	T	571	
1	U	571	
1	V	571	
1	W	571	
1	X	571	
1	Y	571	



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Mol	Chain	Length	Quality of chain
1	Z	571	
1	a	571	
1	b	571	
1	c	571	
1	d	571	
1	e	571	
1	f	571	
1	g	571	
1	h	571	
1	i	571	
1	j	571	
1	k	571	
1	l	571	
1	m	571	
1	n	571	
1	o	571	
1	p	571	
1	q	571	
1	r	571	
1	s	571	
1	t	571	
1	u	571	
1	v	571	
1	w	571	
1	x	571	

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Mol	Chain	Length	Quality of chain
1	y	571	 64%30%6%
1	z	571	 65%29%6%

## 2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 258960 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	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	B	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	C	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	D	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	E	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	F	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	G	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	H	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	I	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	J	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	K	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	L	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	M	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	N	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	O	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	P	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	Q	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	S	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	T	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	U	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	V	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	W	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	X	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	Y	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	Z	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	a	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	b	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	c	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	d	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	e	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	f	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	g	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	h	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	i	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	j	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	k	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	l	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	n	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	o	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	p	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	q	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	r	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	s	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	t	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	u	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	v	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	w	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	x	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	y	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	z	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	1	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	2	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	3	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	4	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	5	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	6	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		
1	7	538	Total	C	N	O	S	0	0
			4316	2728	740	833	15		

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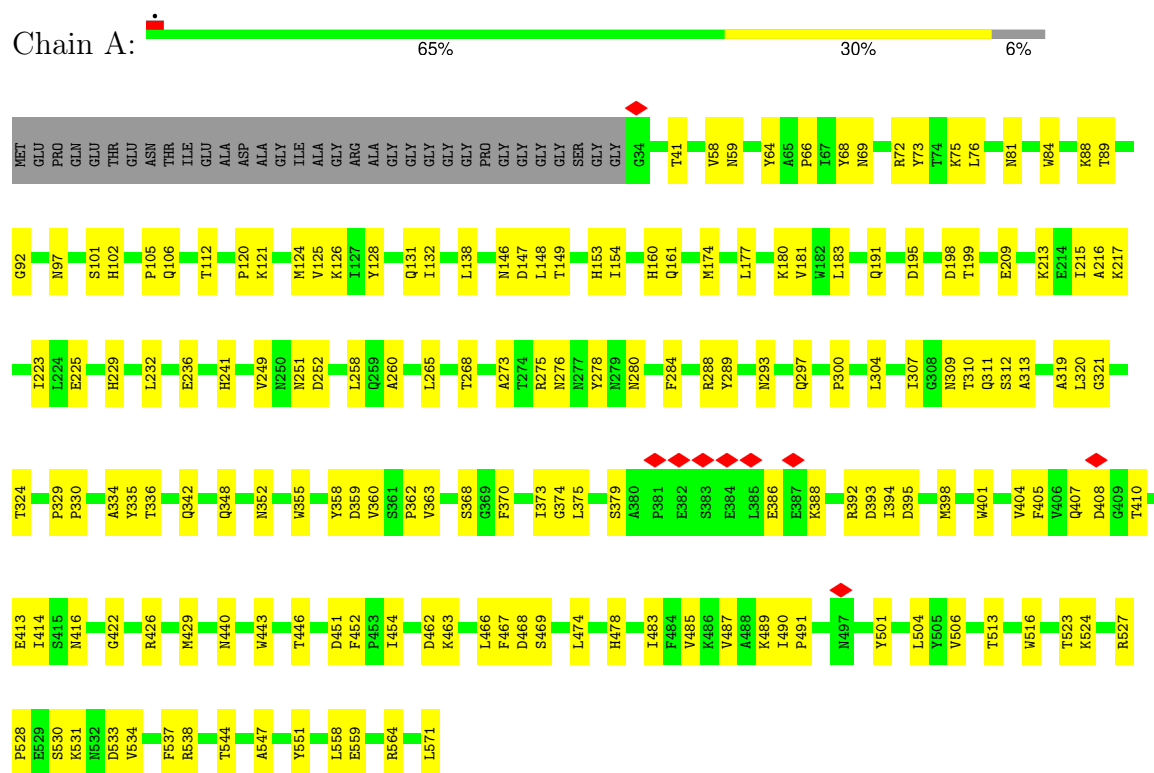
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Mol	Chain	Residues	Atoms					AltConf	Trace
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			4316	2728	740	833	15		

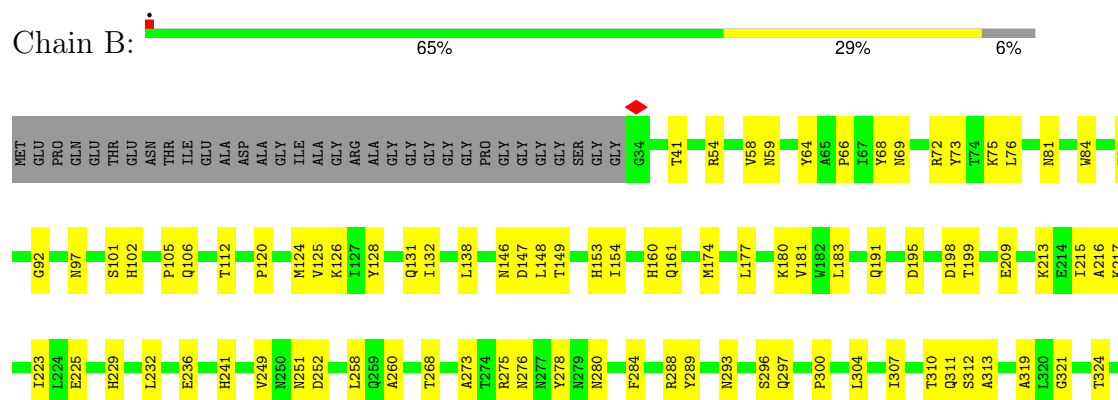
### 3 Residue-property plots

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

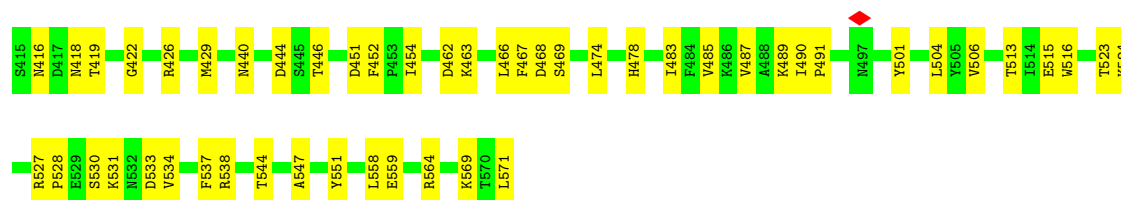
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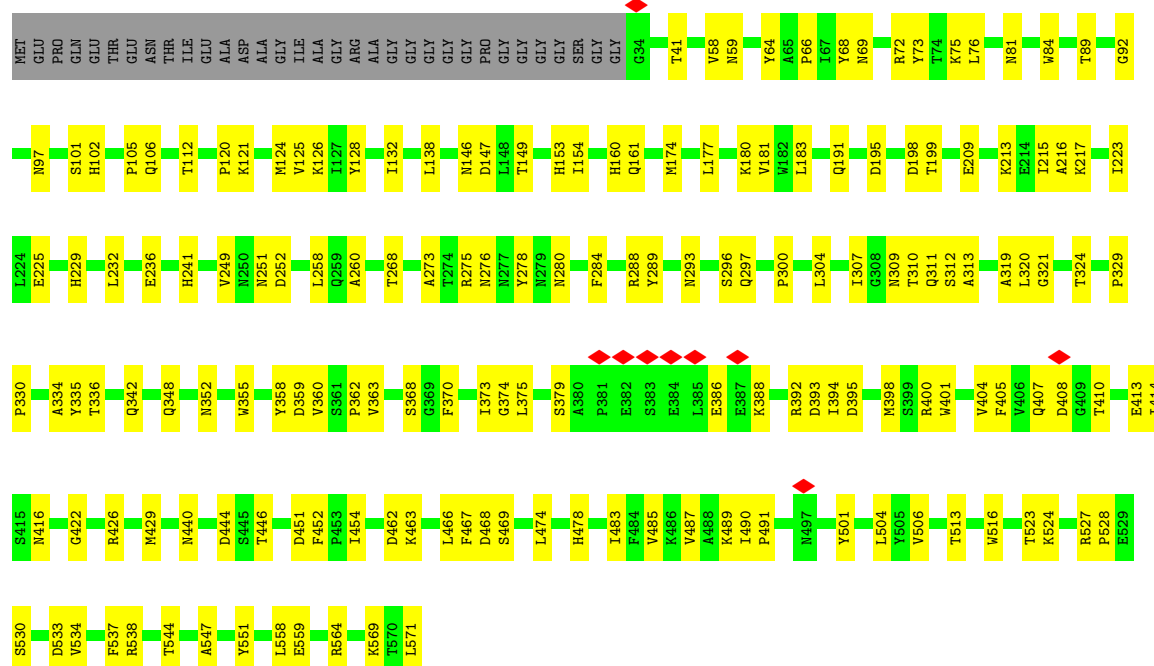
#### • Molecule 1: VP2



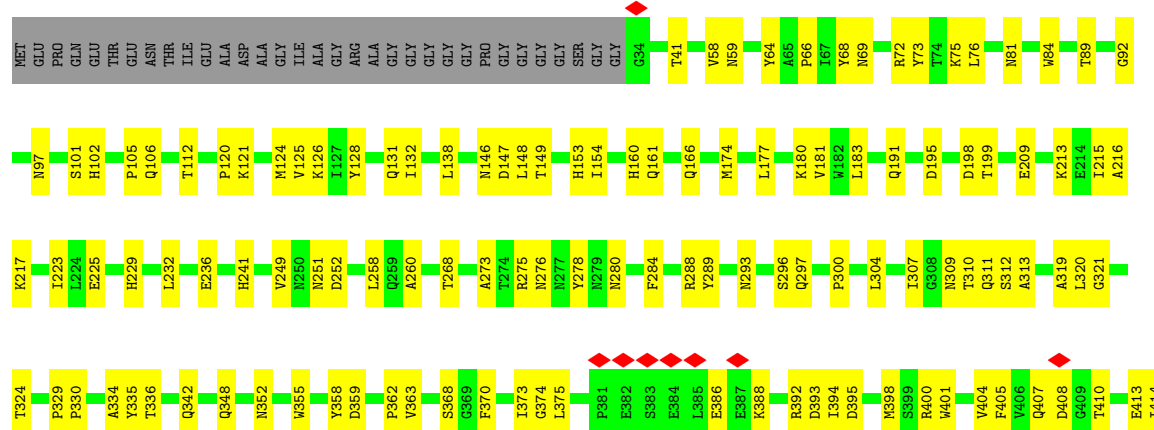


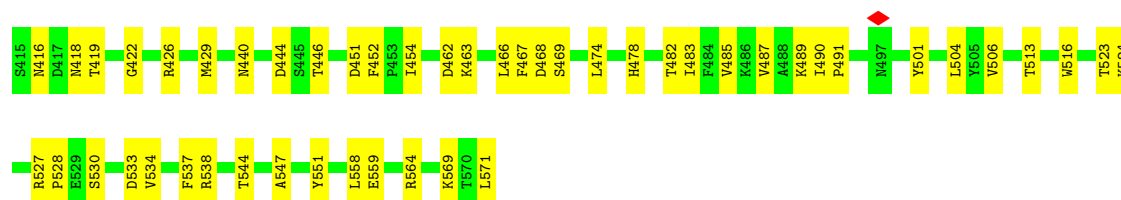


• Molecule 1: VP2



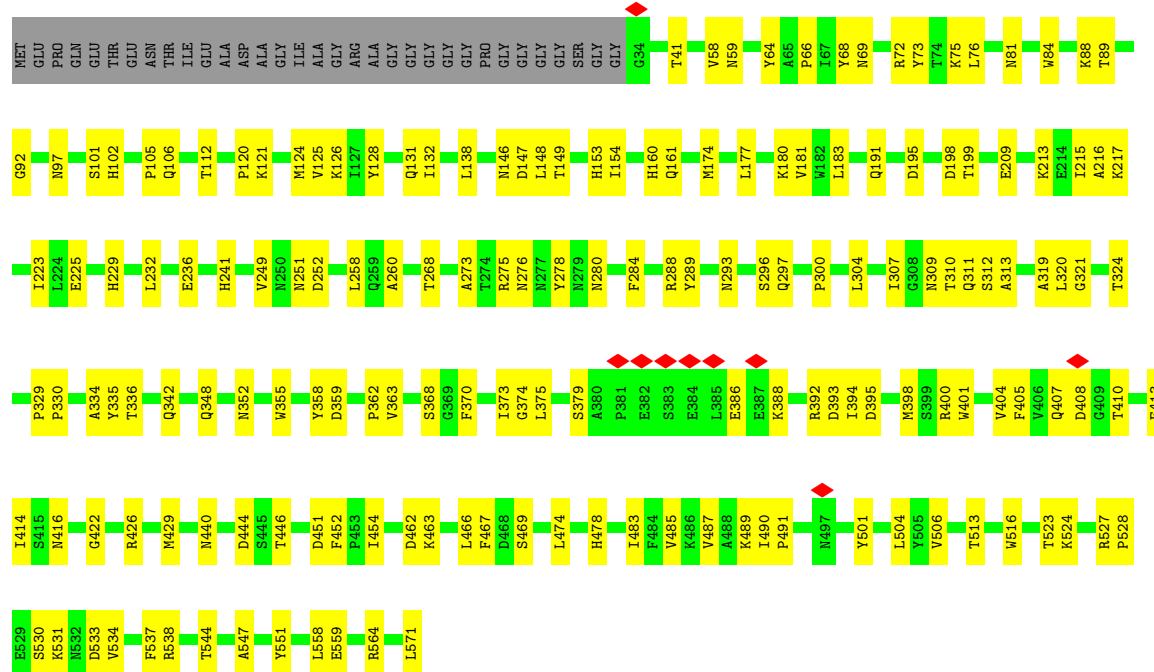
• Molecule 1: VP2





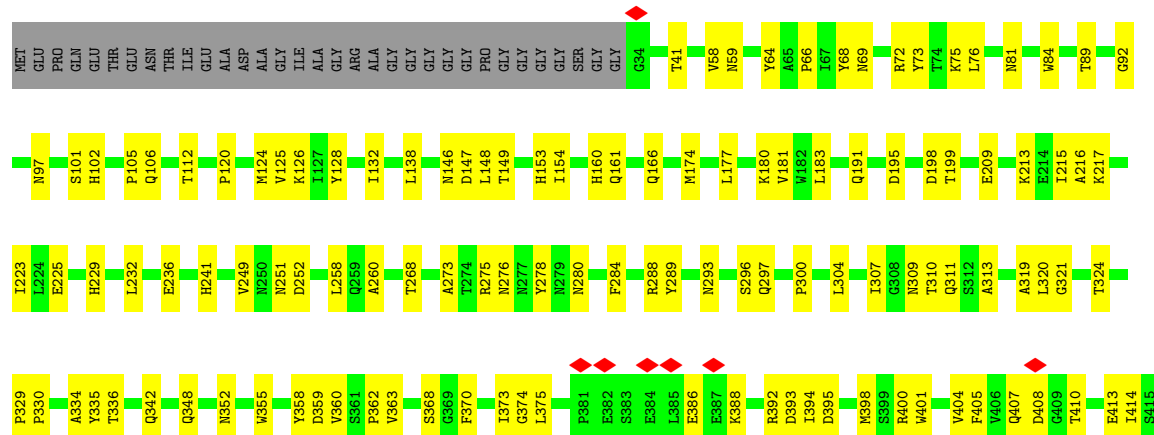
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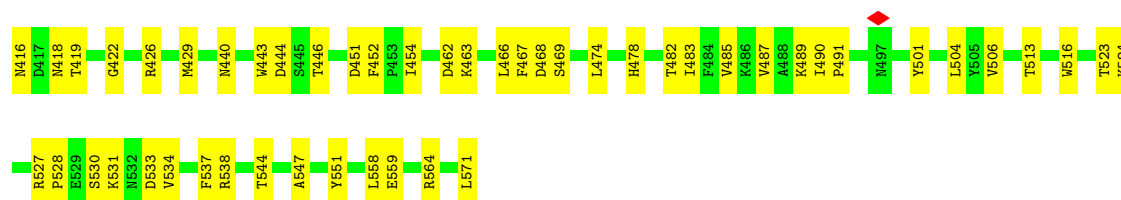
Chain G: 65% 29% 6%



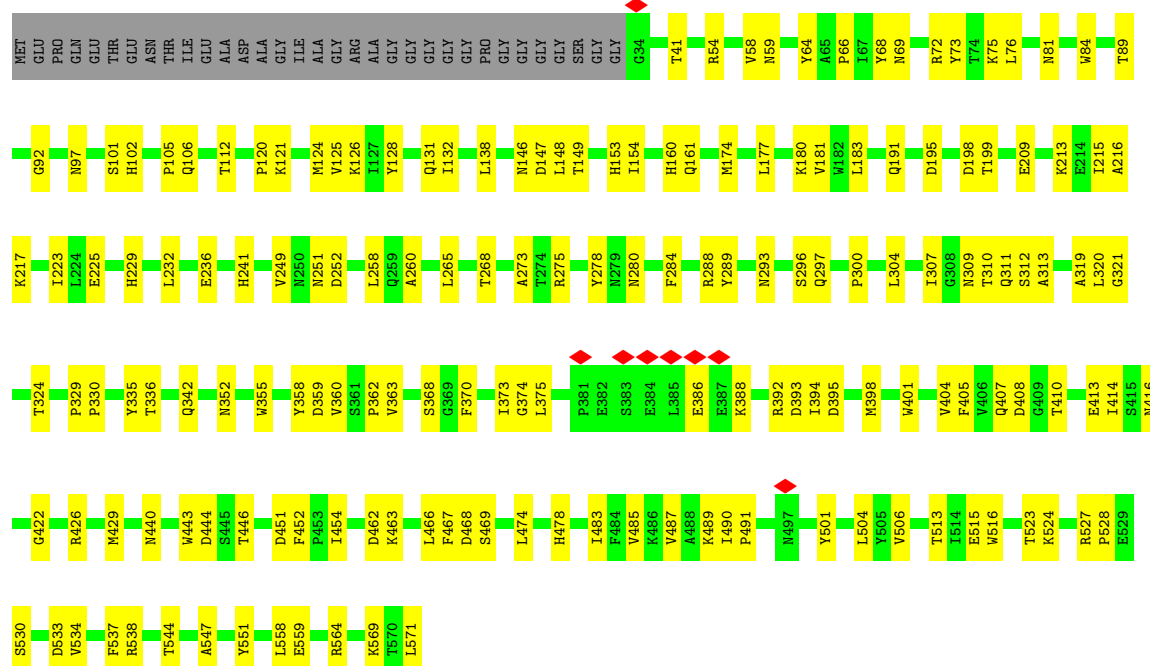
• Molecule 1: VP2

Chain H: 64% 30% 6%

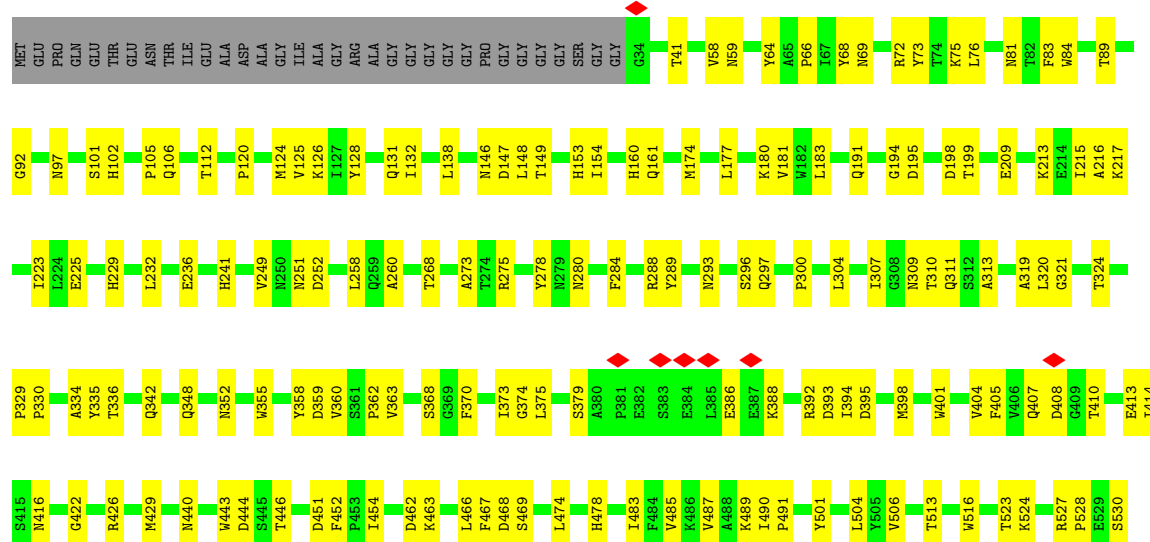




• Molecule 1: VP2



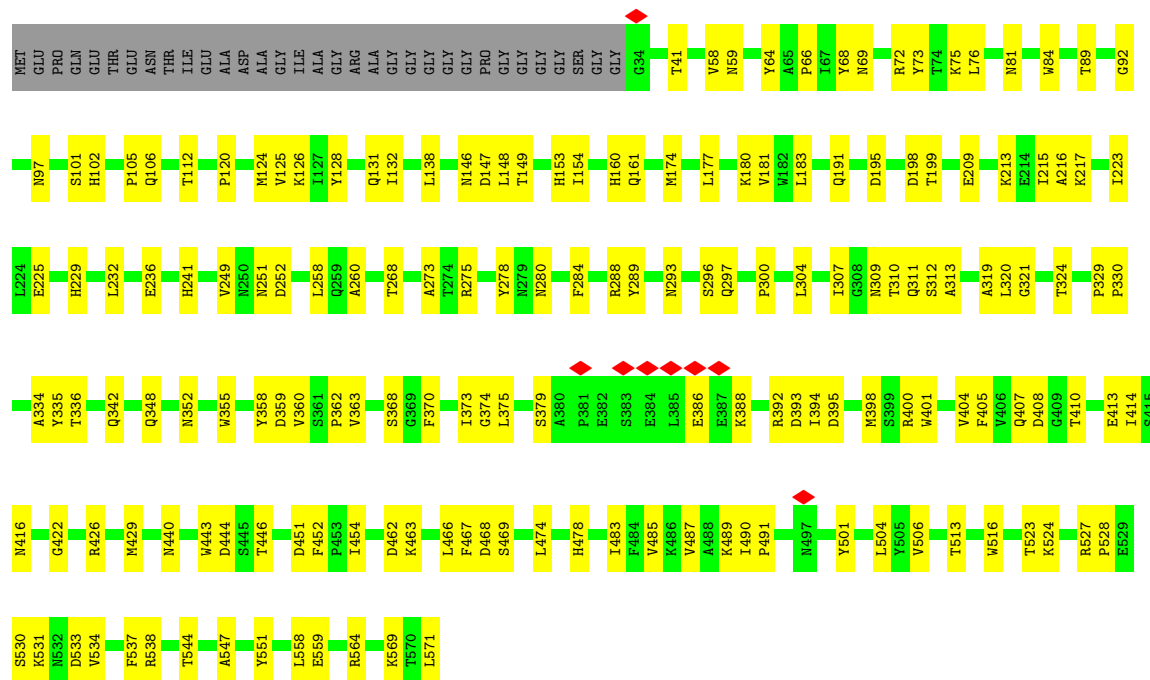
• Molecule 1: VP2





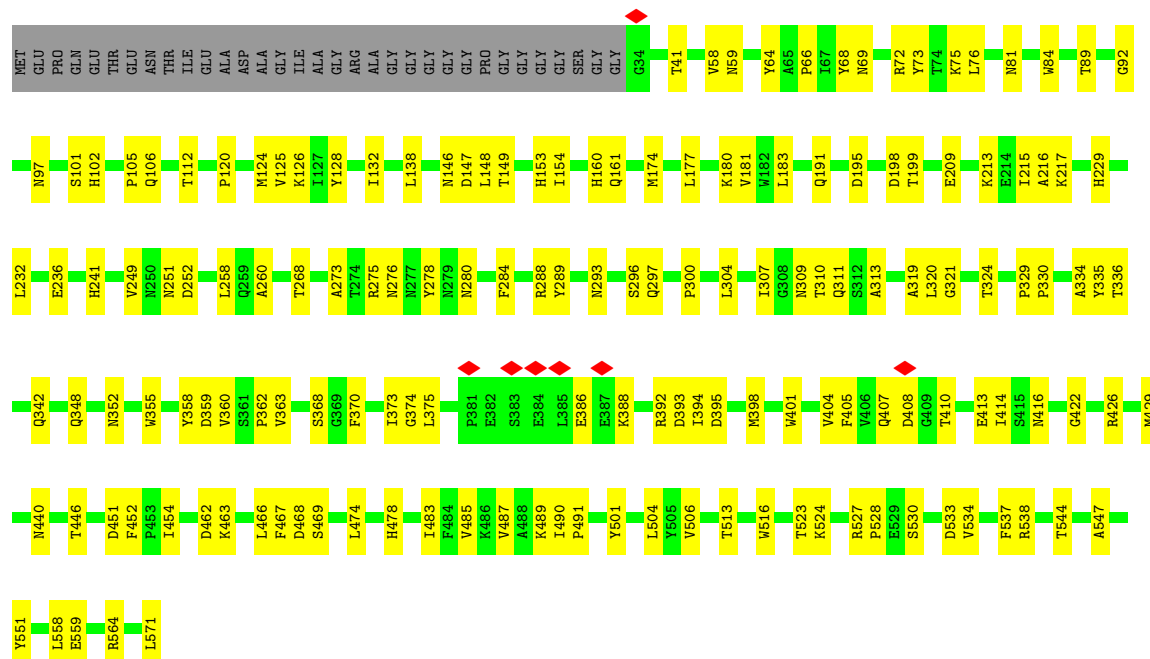
• Molecule 1: VP2

Chain K: 65% 30% 6%

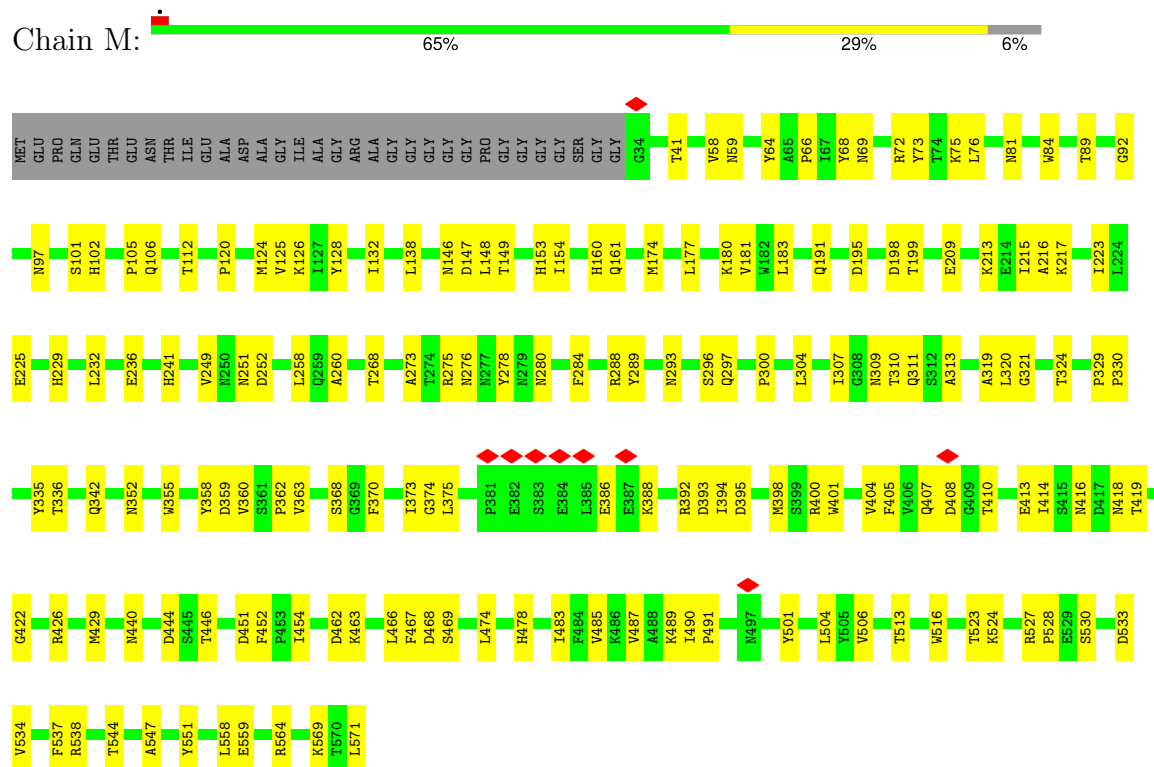


• Molecule 1: VP2

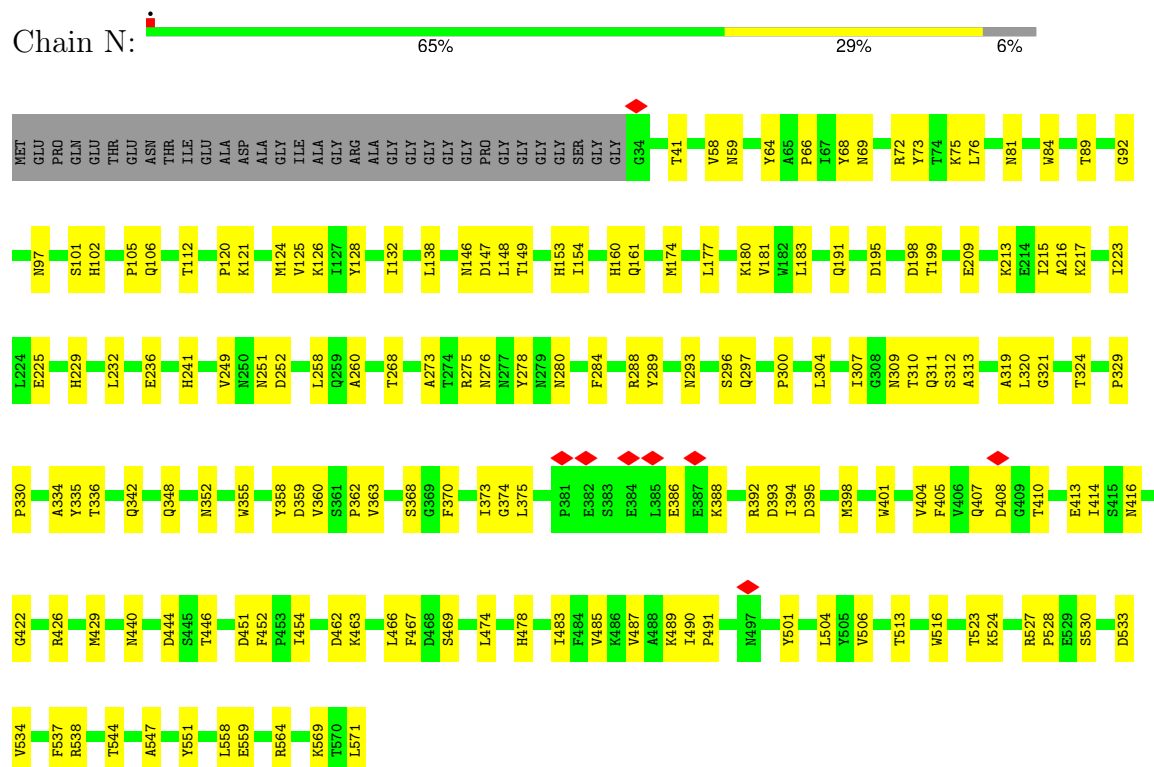
Chain L: 66% 28% 6%



- Molecule 1: VP2



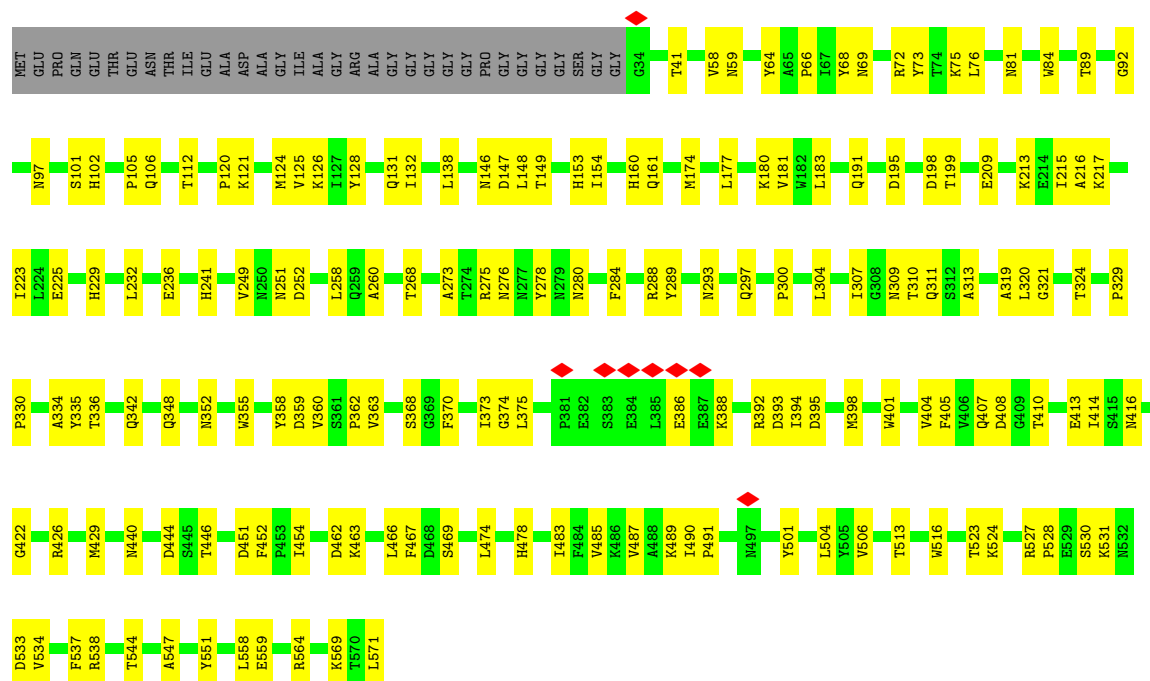
- Molecule 1: VP2



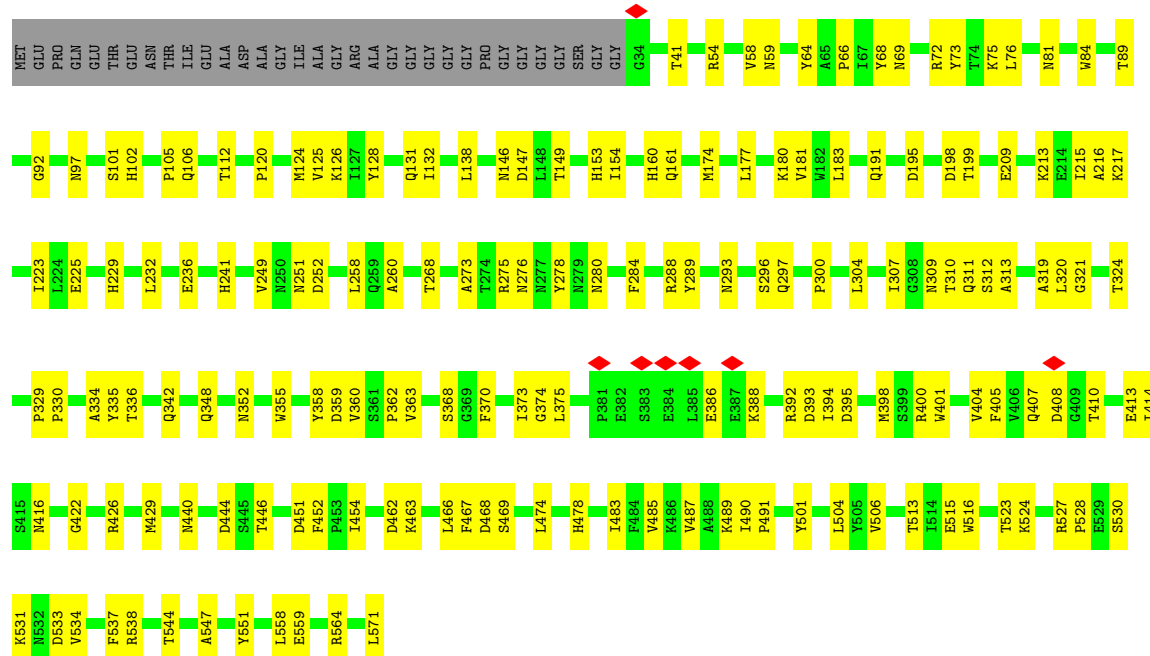
- Molecule 1: VP2



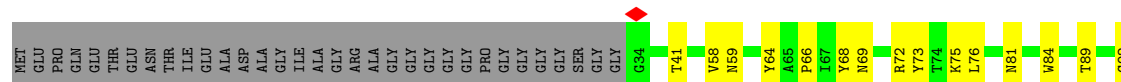


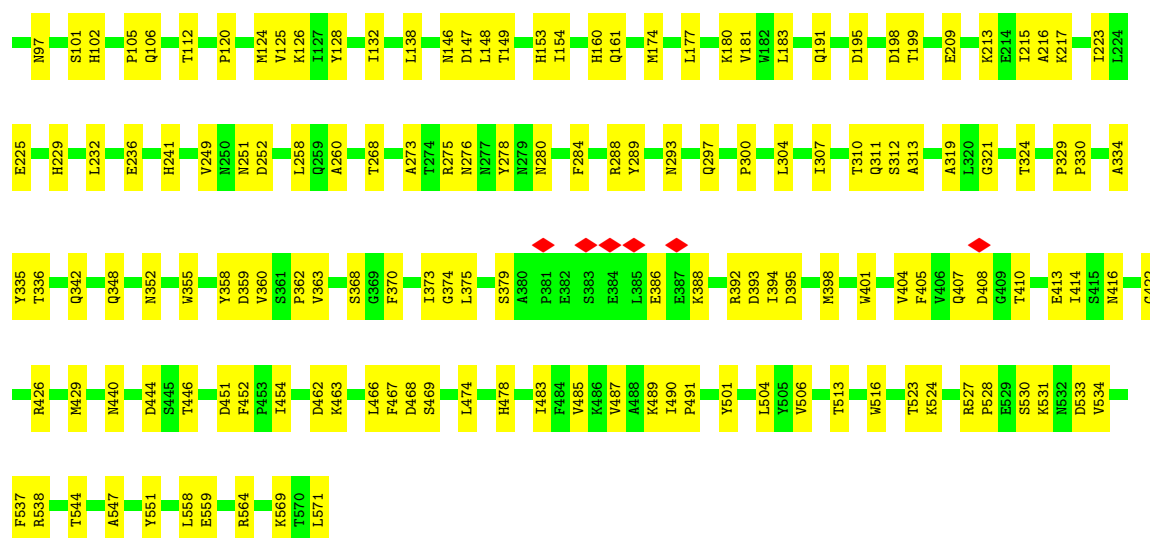


• Molecule 1: VP2

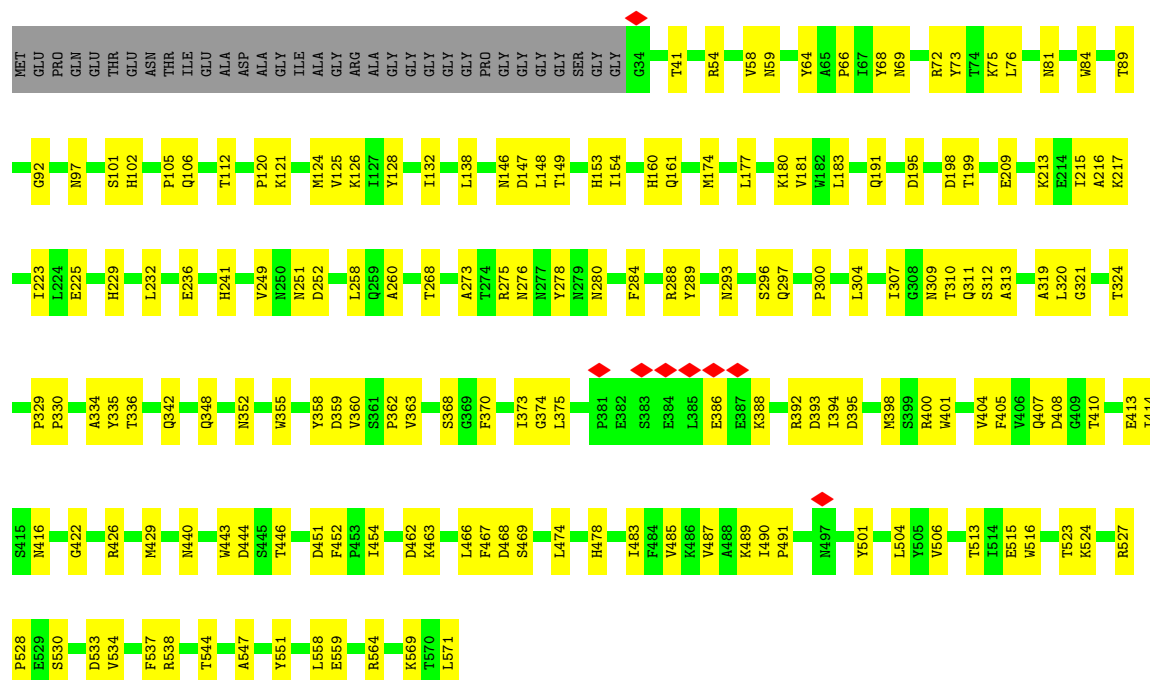


• Molecule 1: VP2

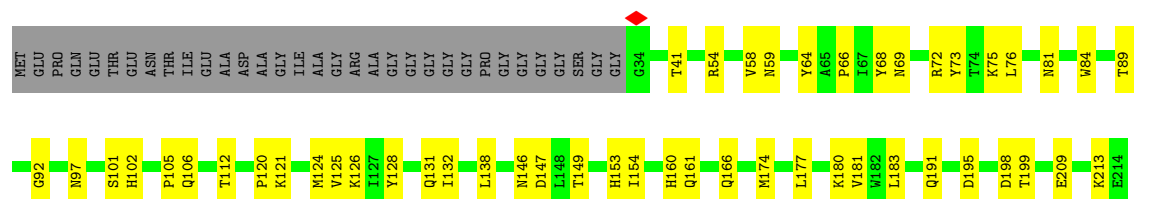


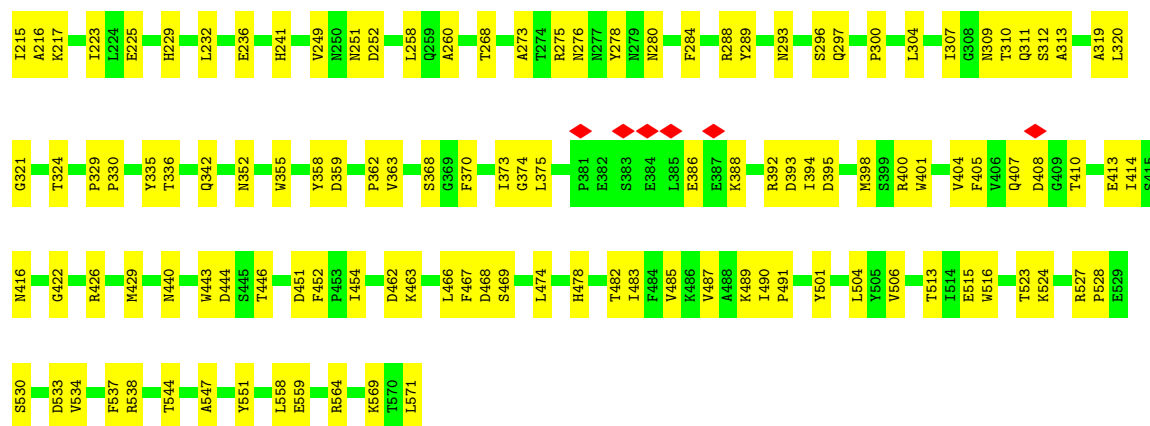


### • Molecule 1: VP2

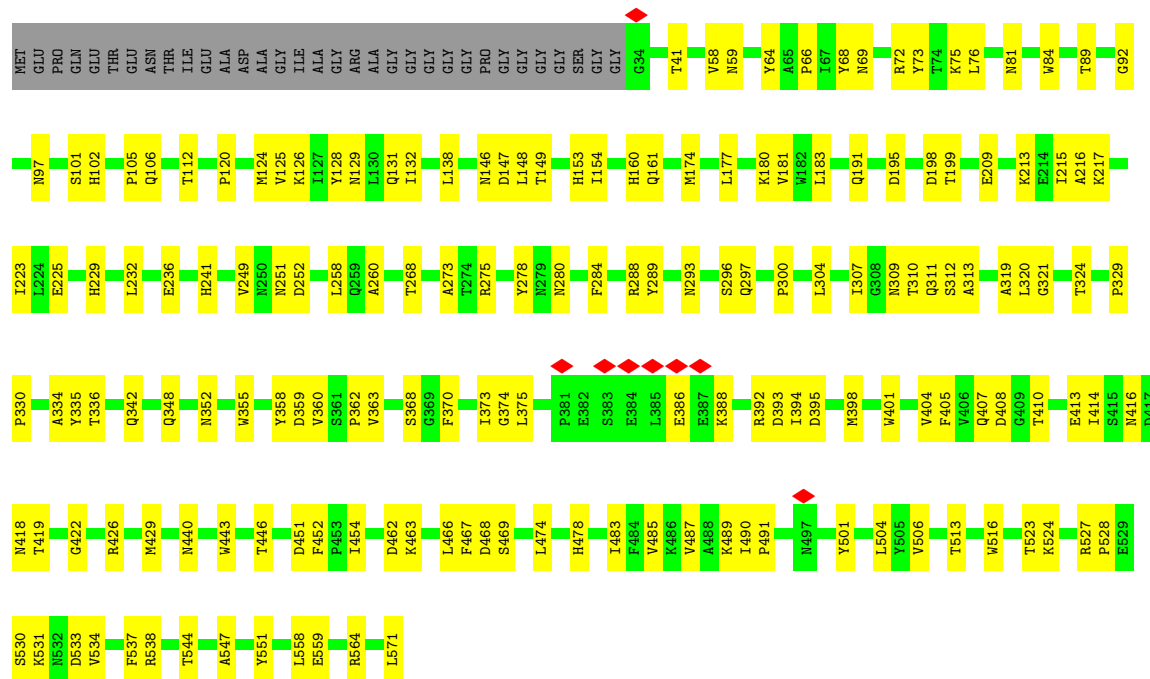


### • Molecule 1: VP2

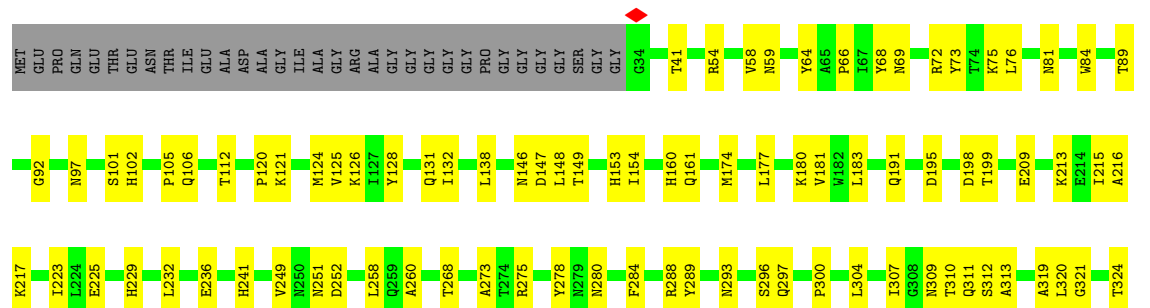


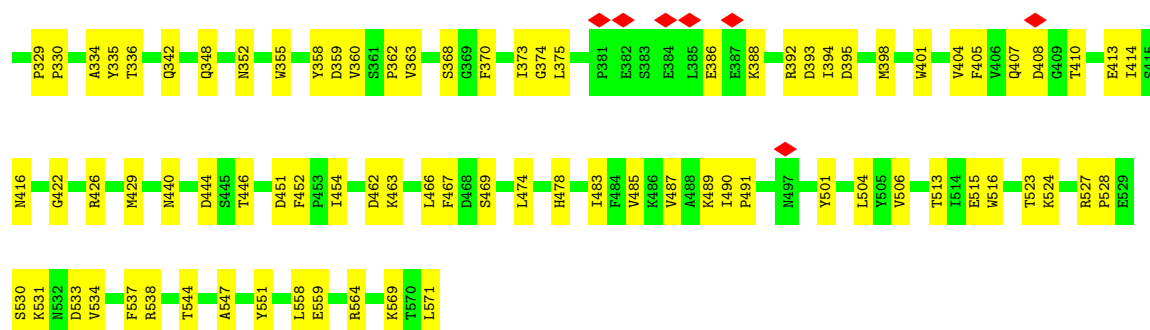


• Molecule 1: VP2

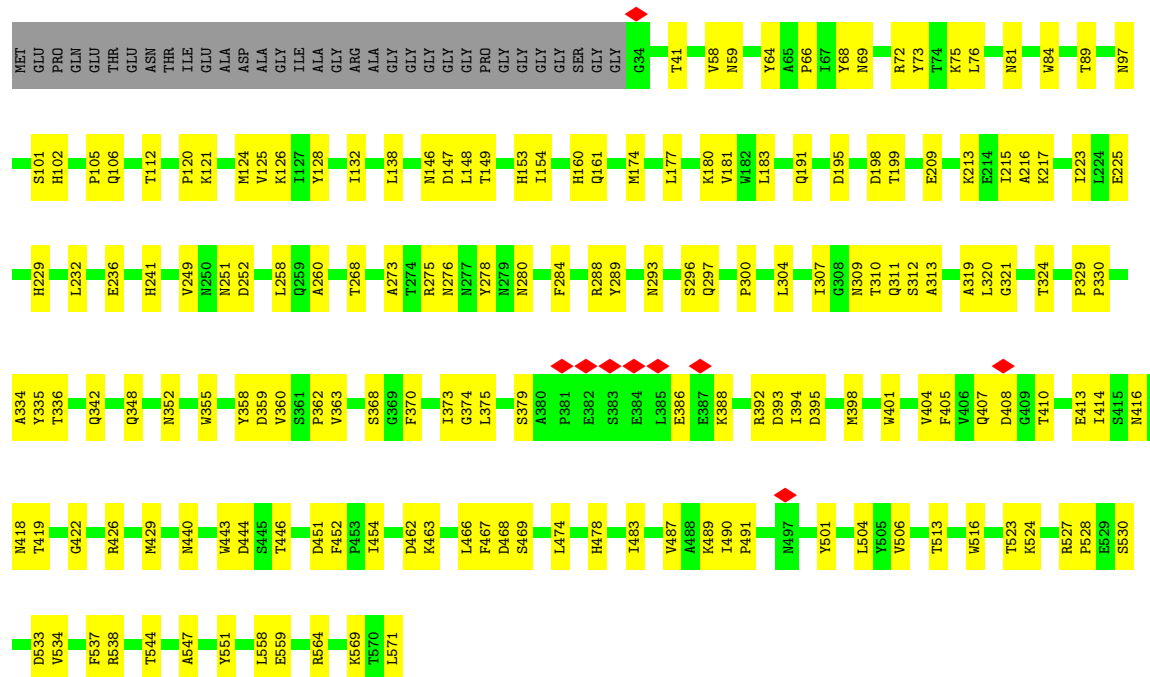


• Molecule 1: VP2

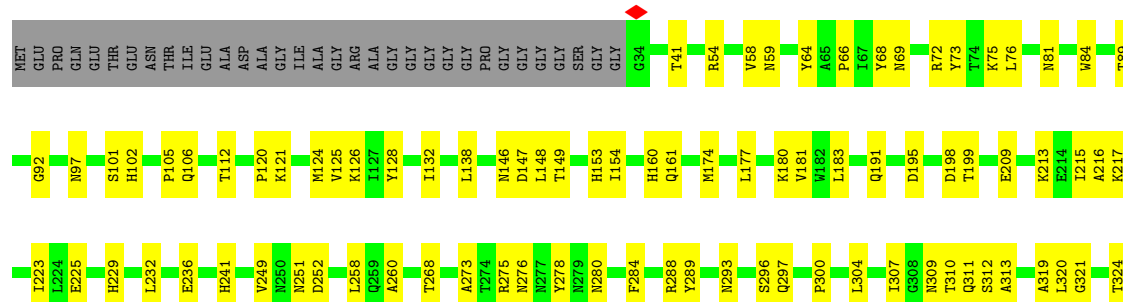


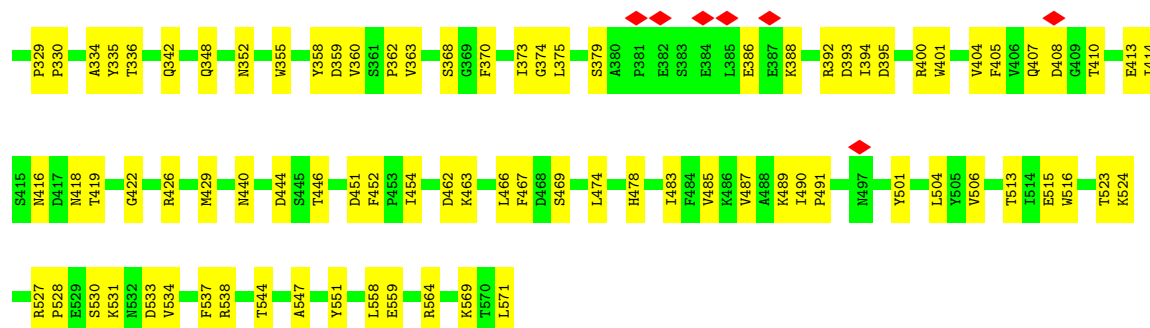


• Molecule 1: VP2

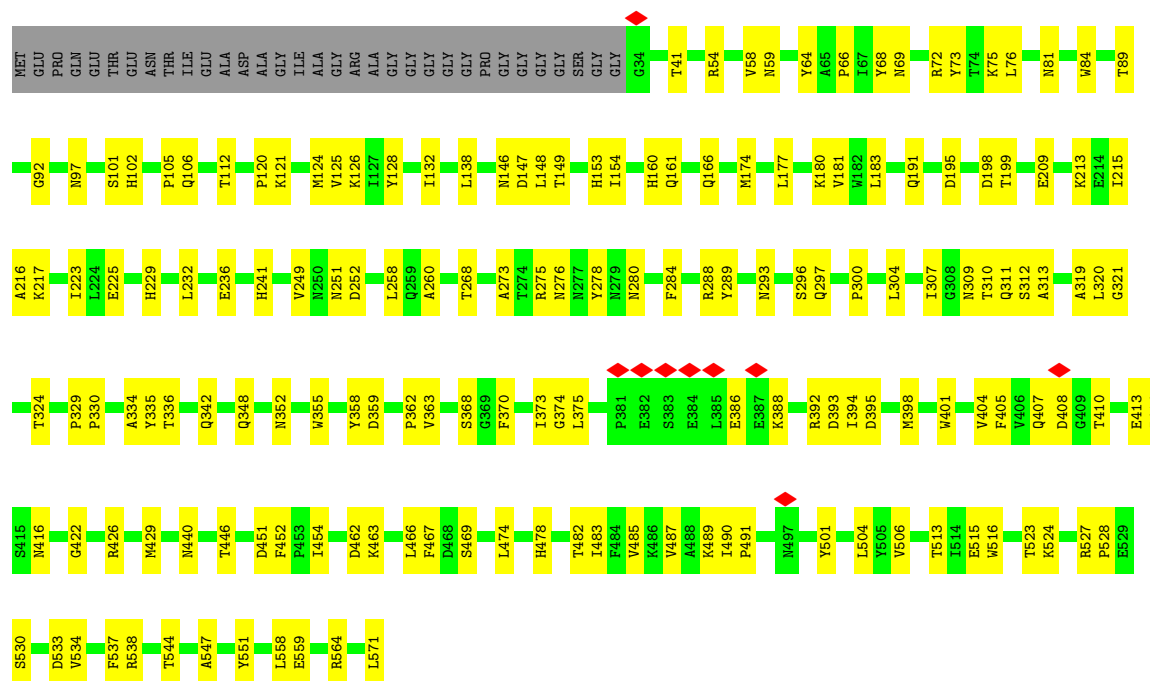


• Molecule 1: VP2

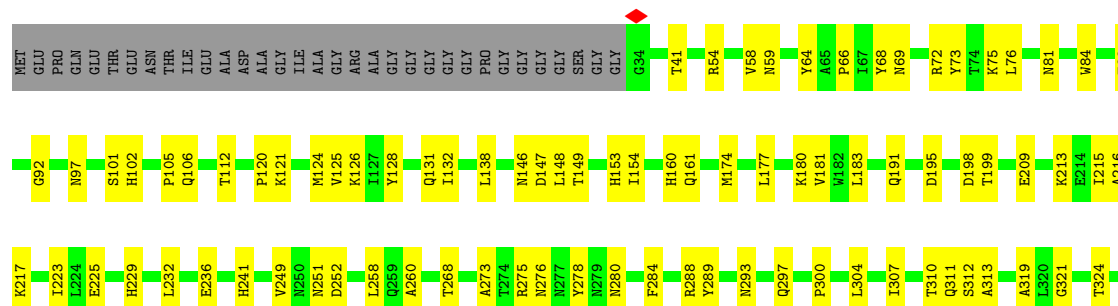


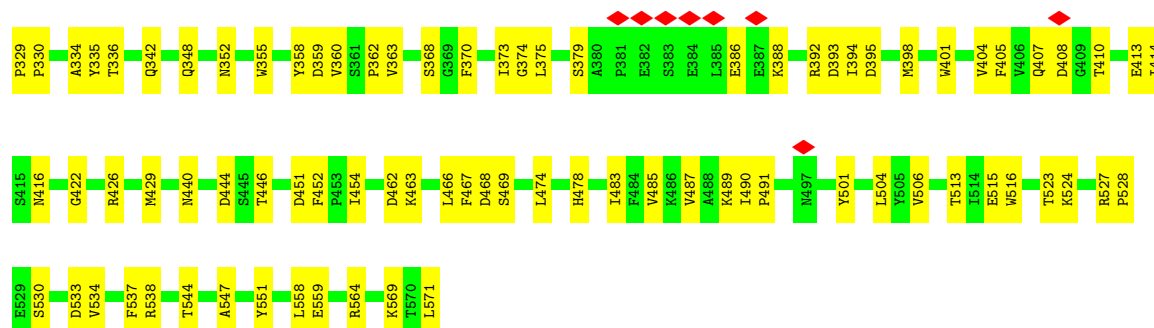


• Molecule 1: VP2



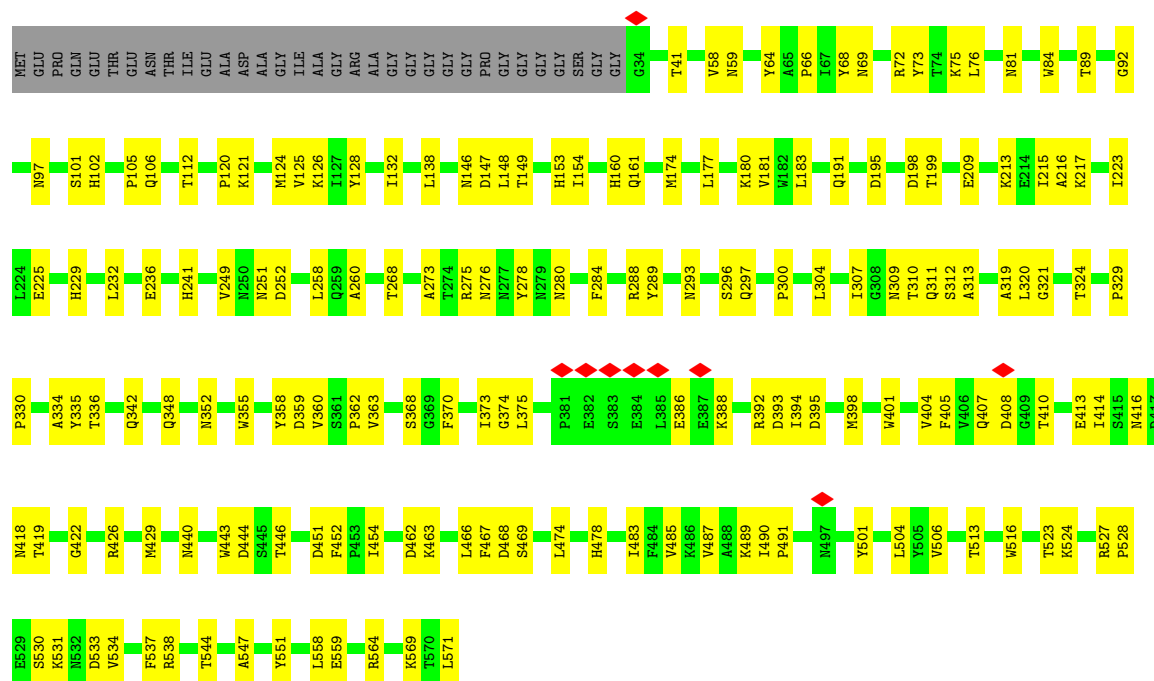
• Molecule 1: VP2





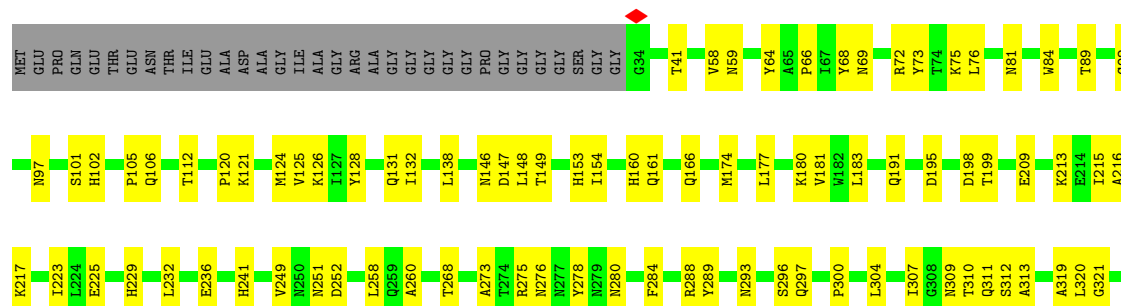
• Molecule 1: VP2

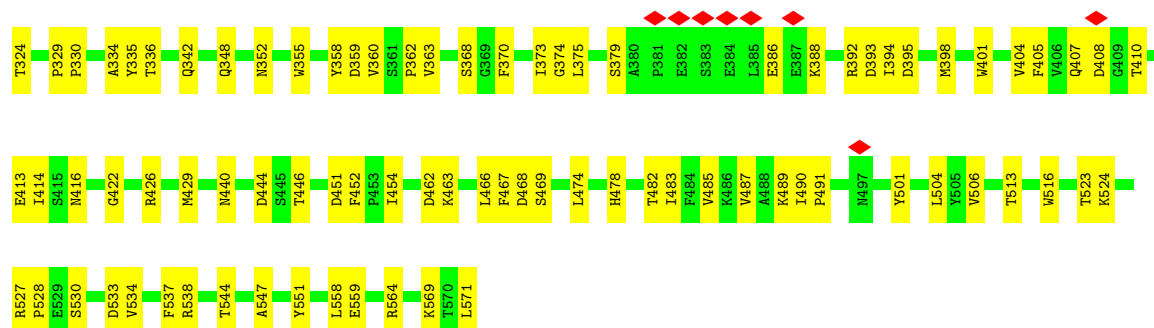
Chain b: 64% 30% 6%



• Molecule 1: VP2

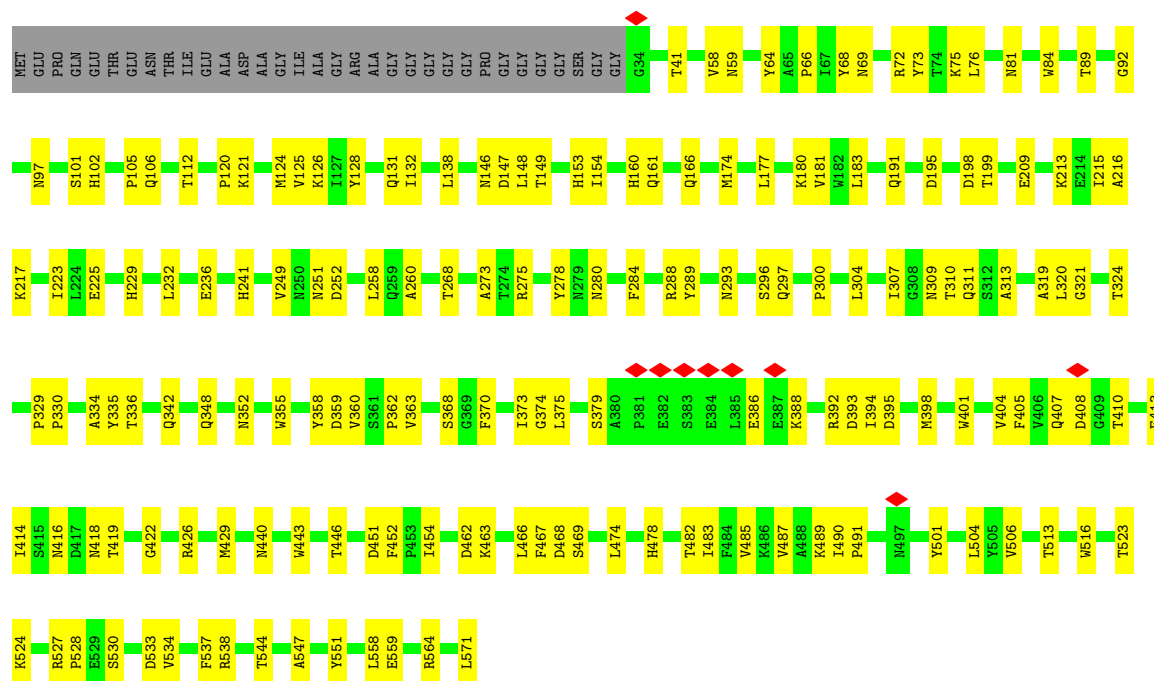
Chain c: 64% 30% 6%





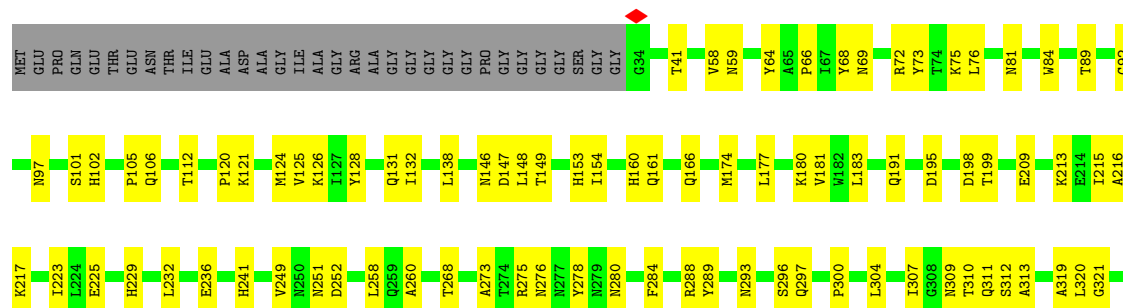
• Molecule 1: VP2

Chain d: 65% 30% 6%

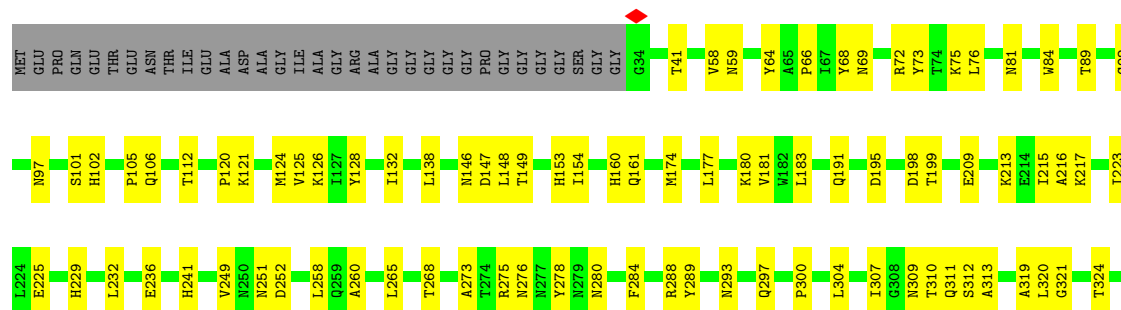


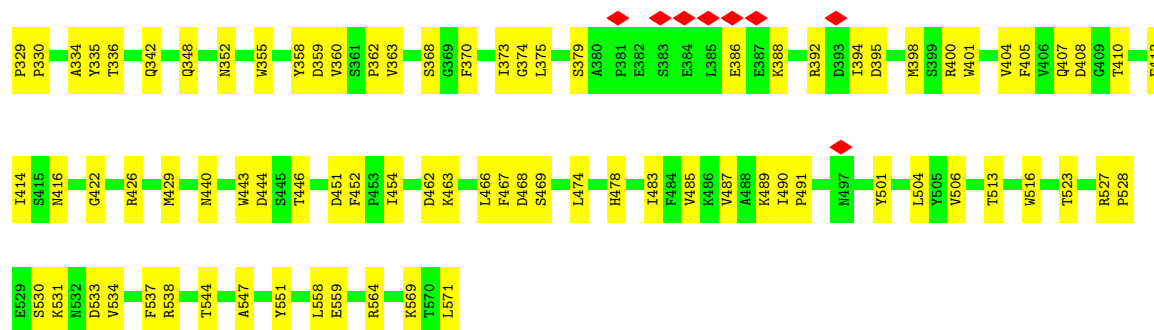
• Molecule 1: VP2

Chain e: 64% 30% 6%

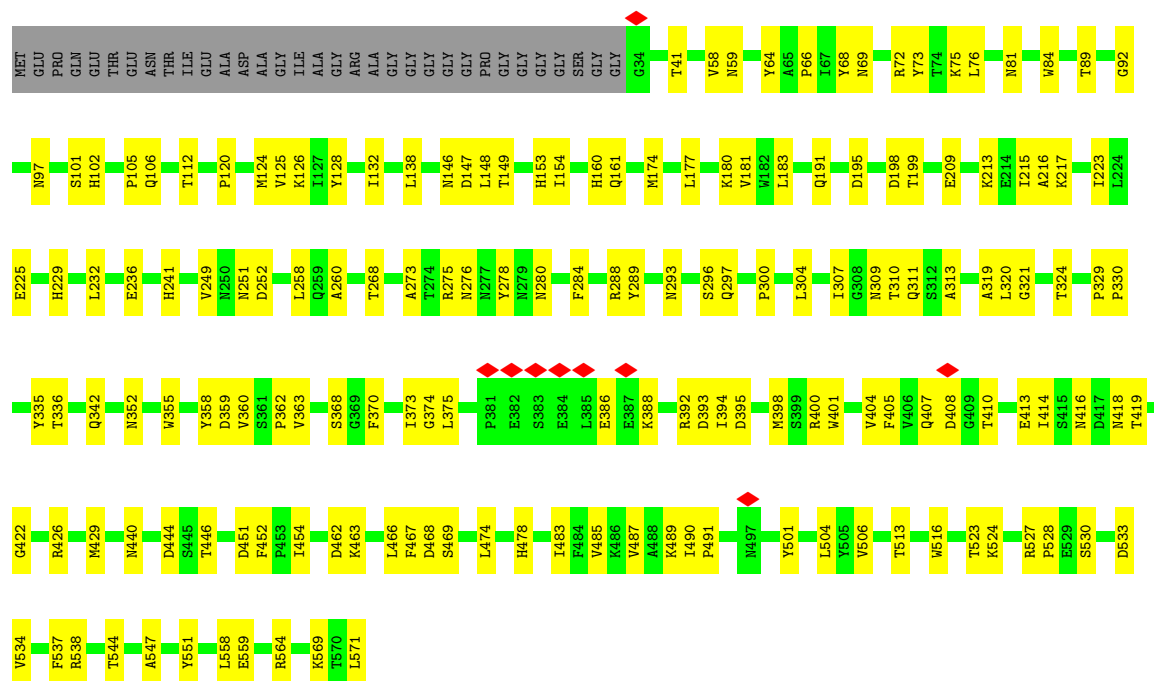




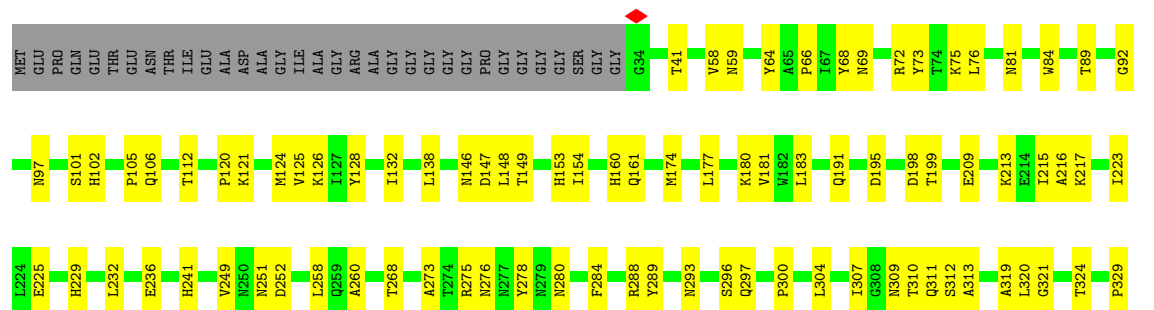


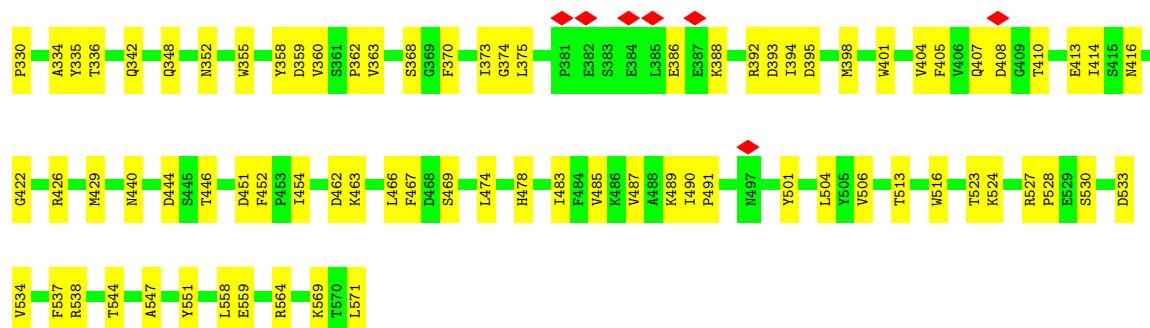


• Molecule 1: VP2

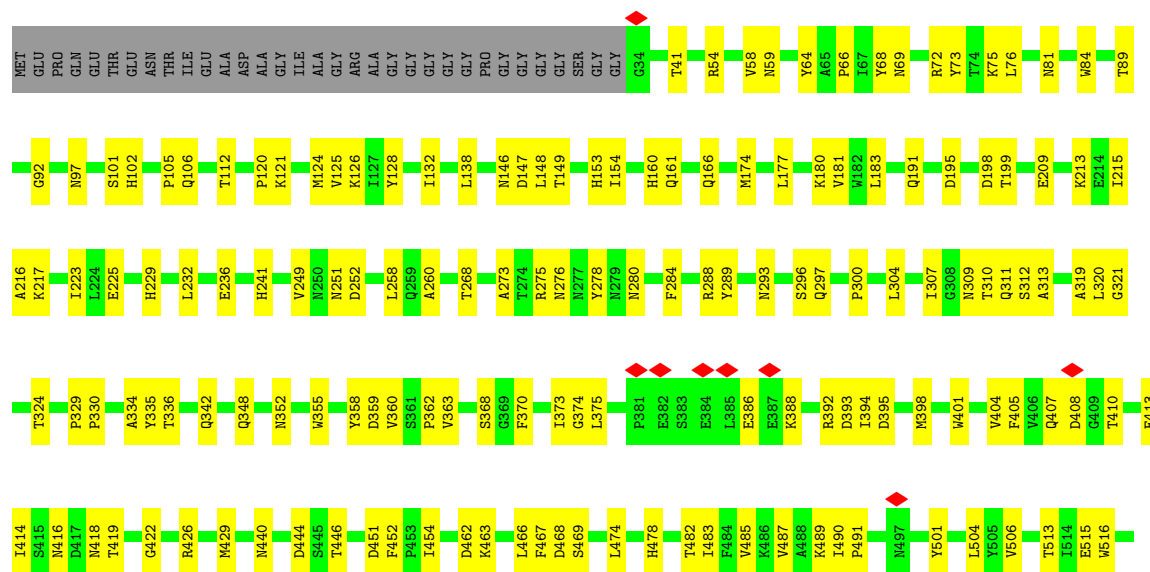


• Molecule 1: VP2

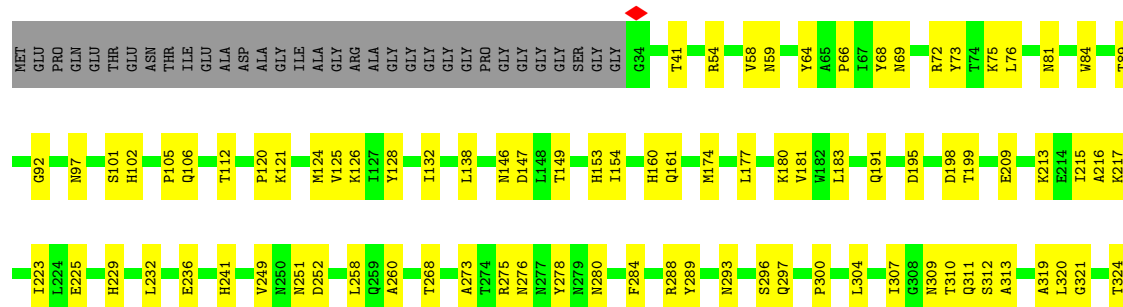


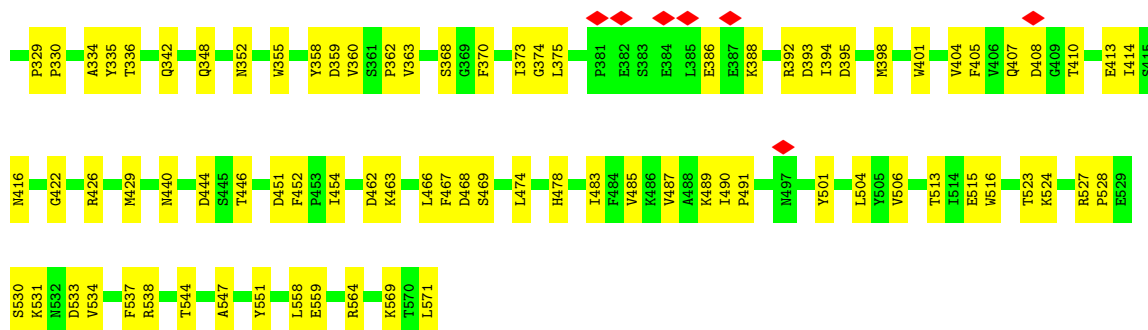


• Molecule 1: VP2

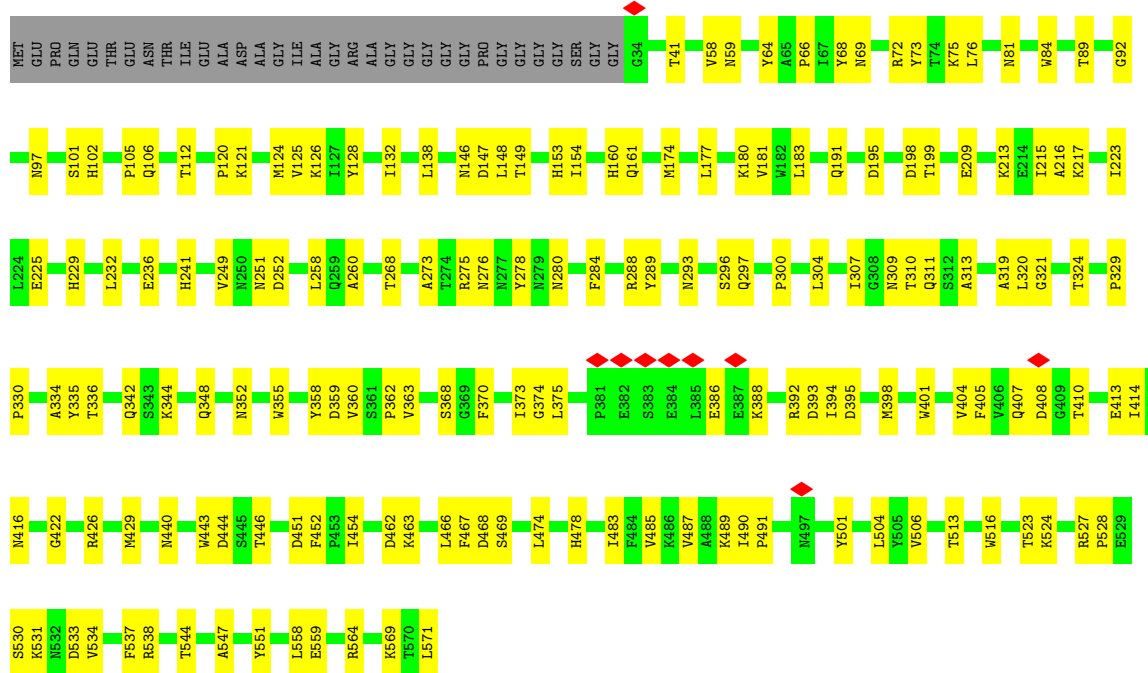


• Molecule 1: VP2

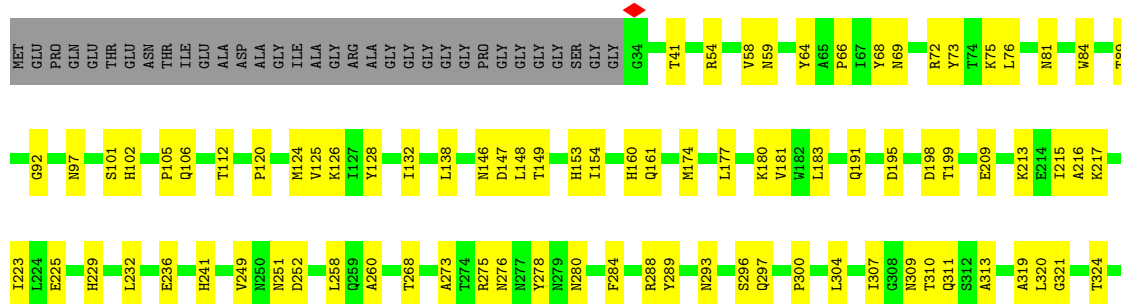


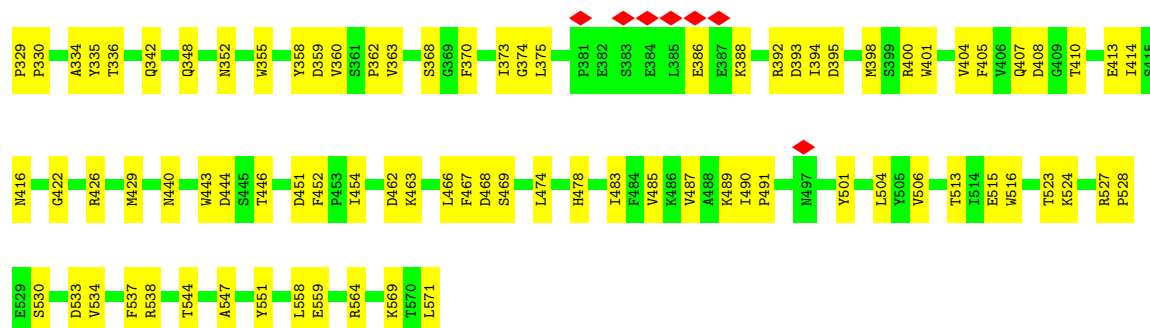


• Molecule 1: VP2

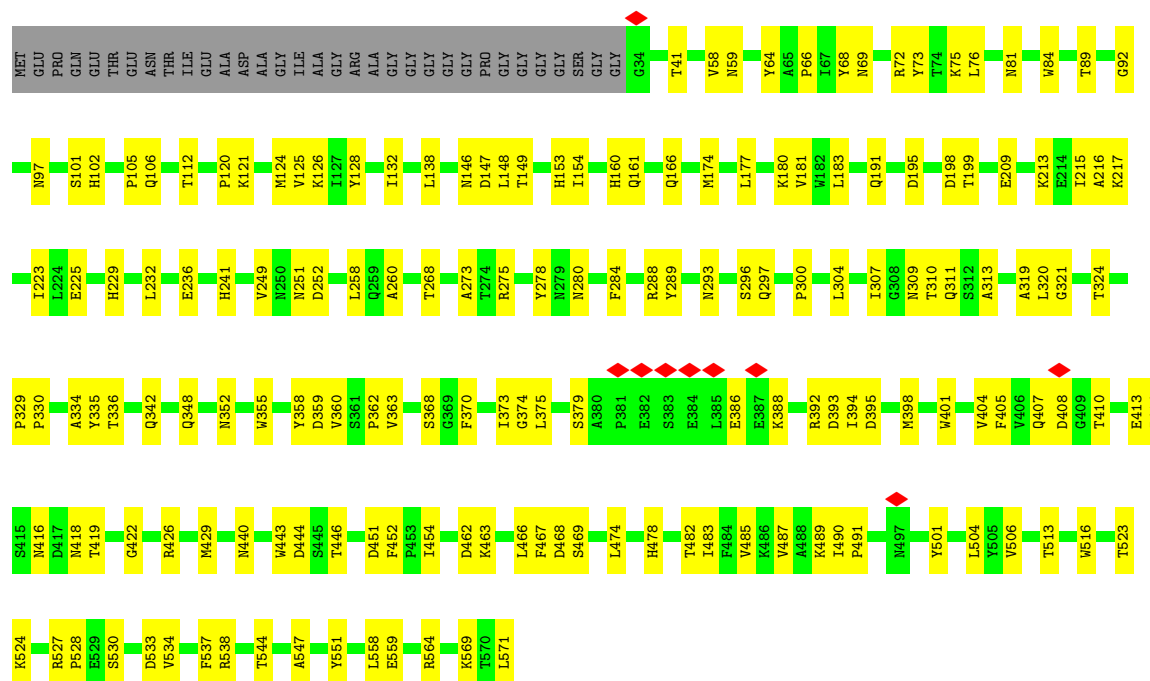


• Molecule 1: VP2

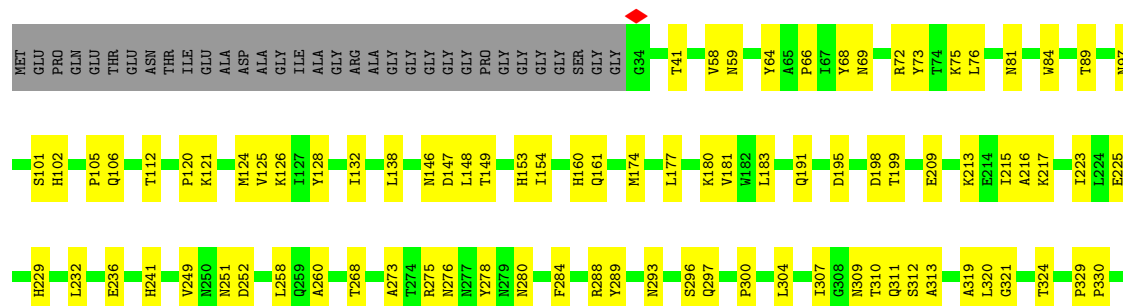


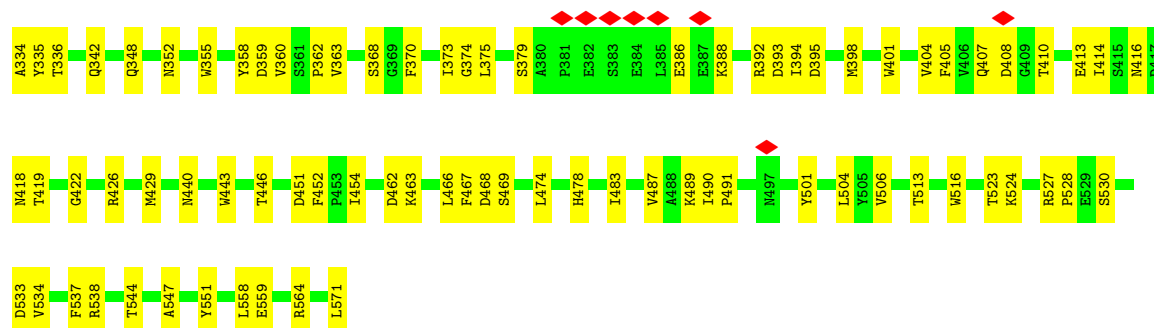


• Molecule 1: VP2

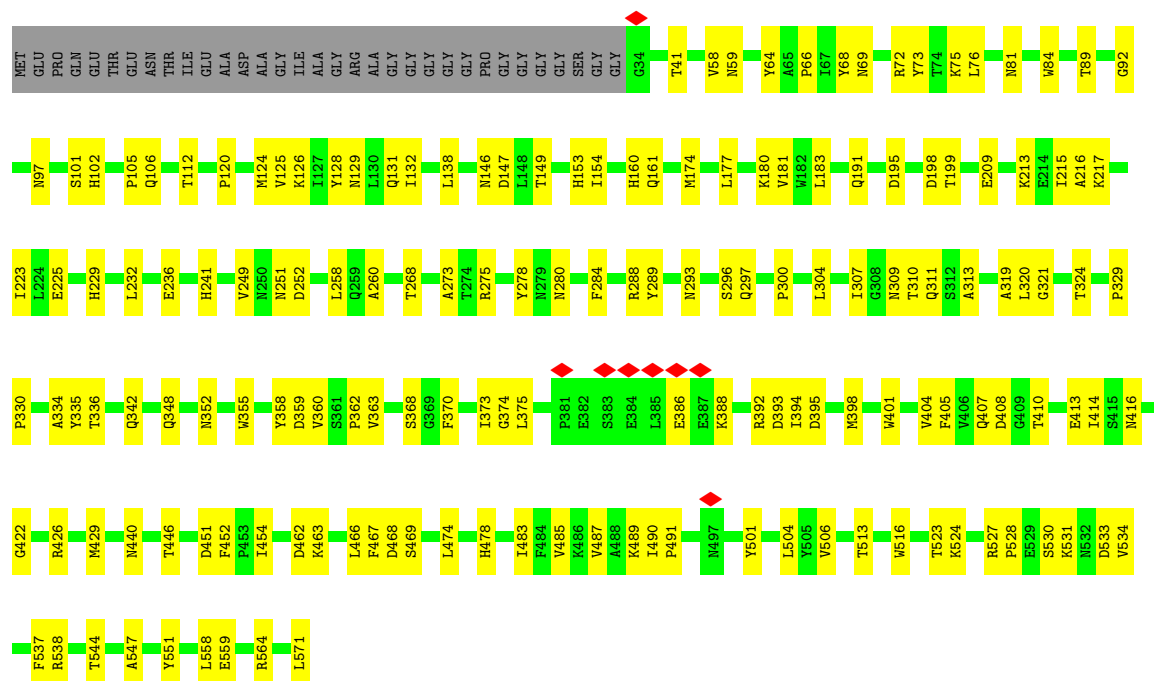


• Molecule 1: VP2

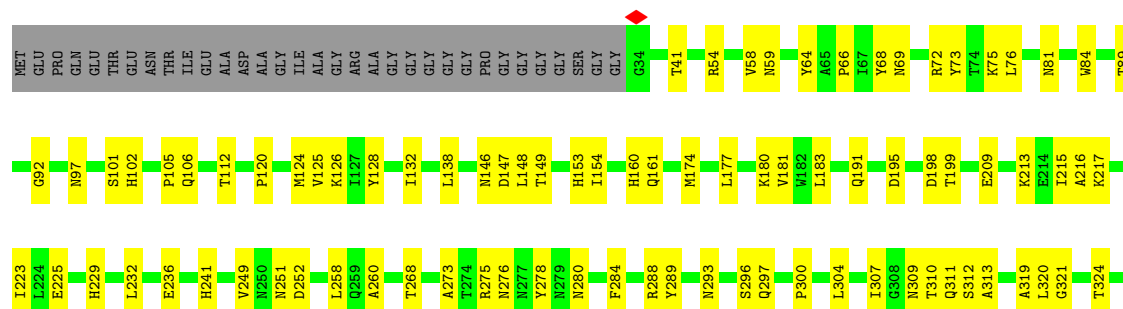


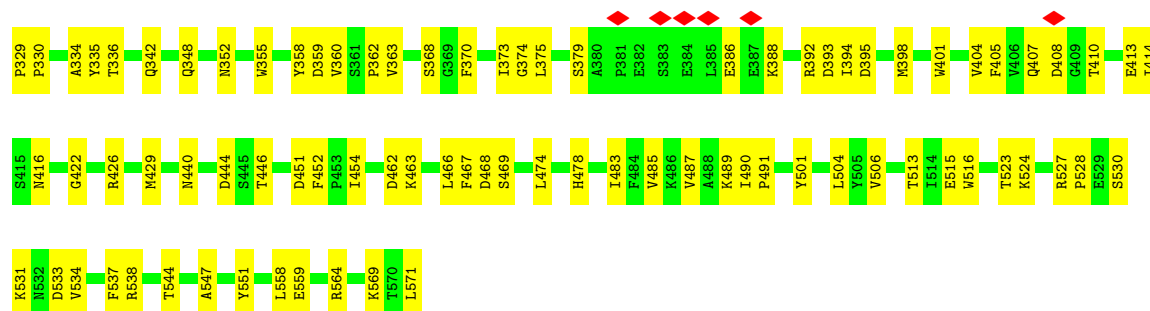


• Molecule 1: VP2

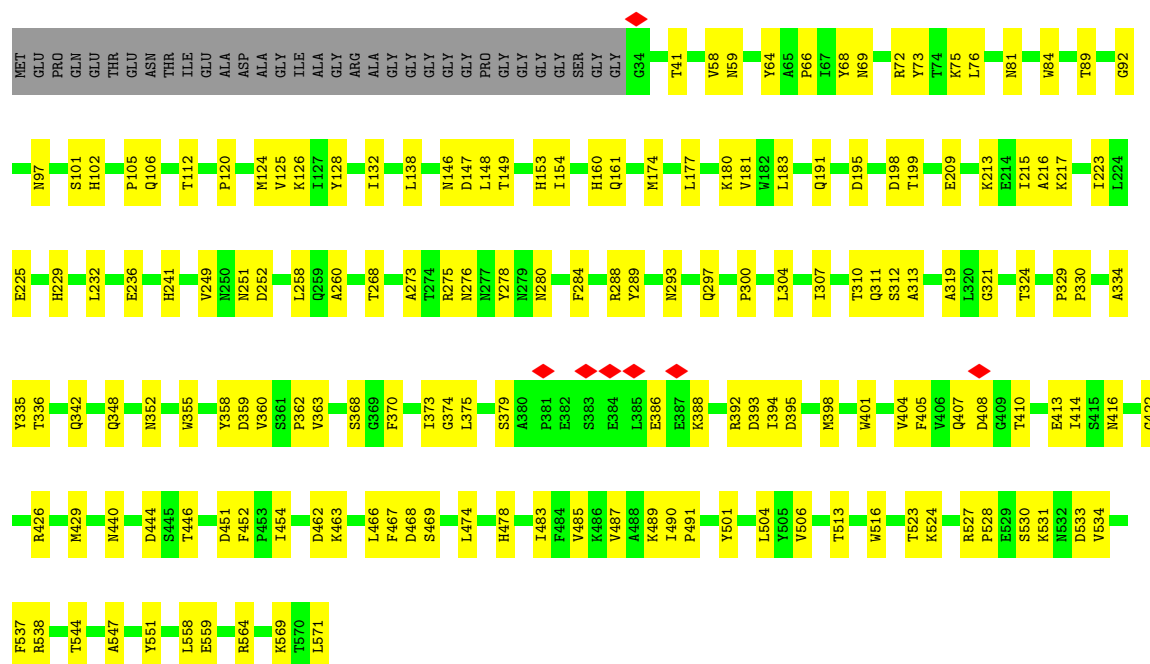


• Molecule 1: VP2

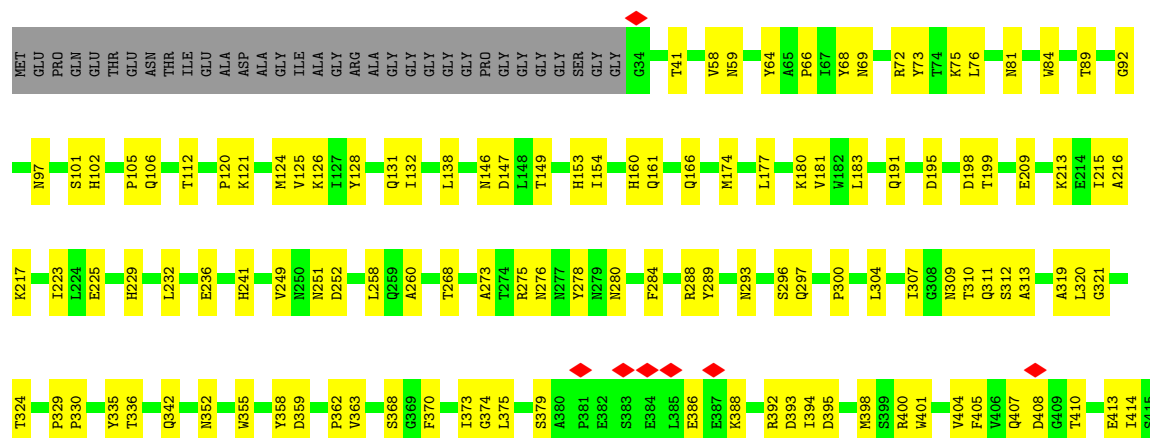


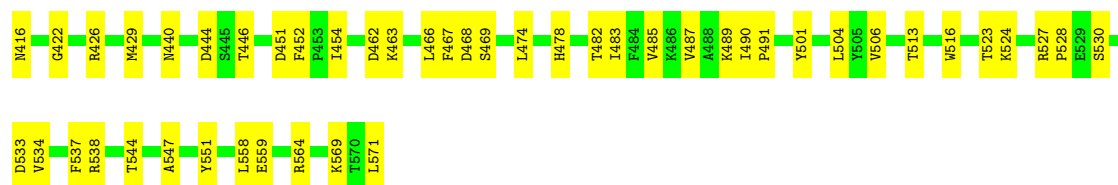


• Molecule 1: VP2



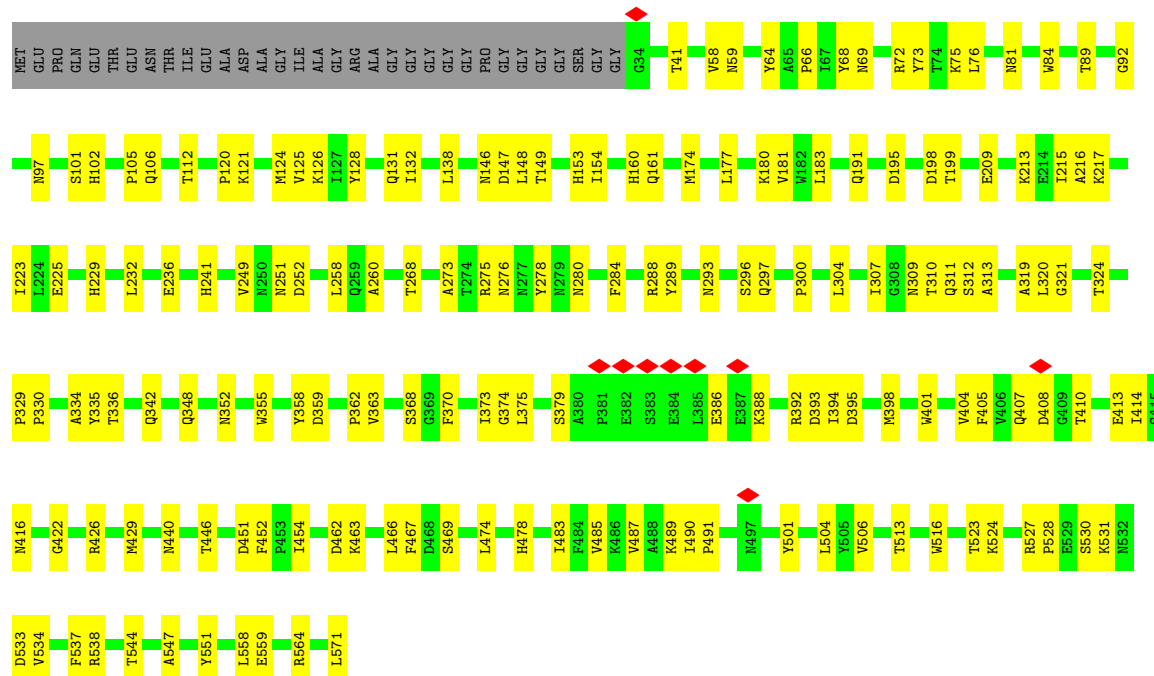
• Molecule 1: VP2





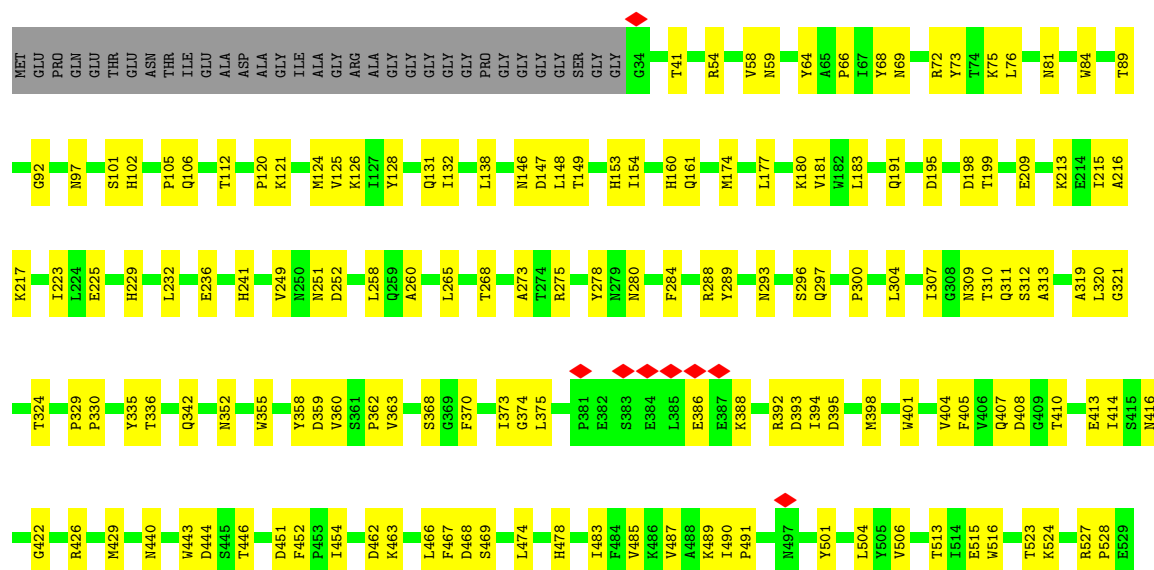
• Molecule 1: VP2

Chain t: 65% 29% 6%

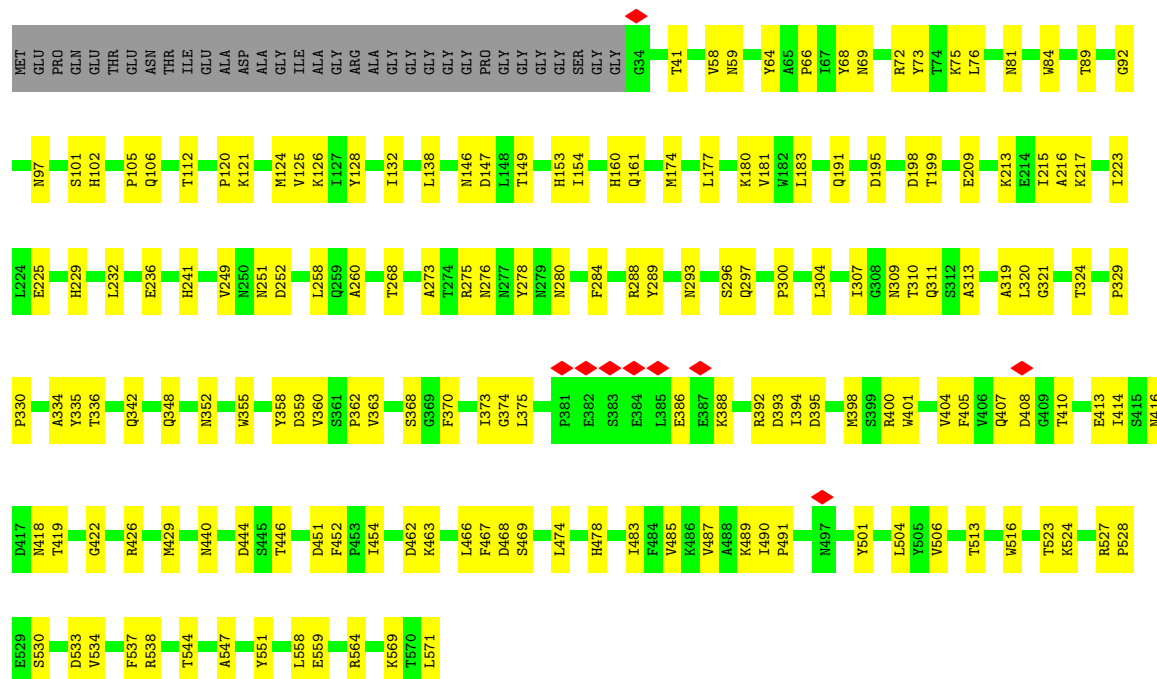


• Molecule 1: VP2

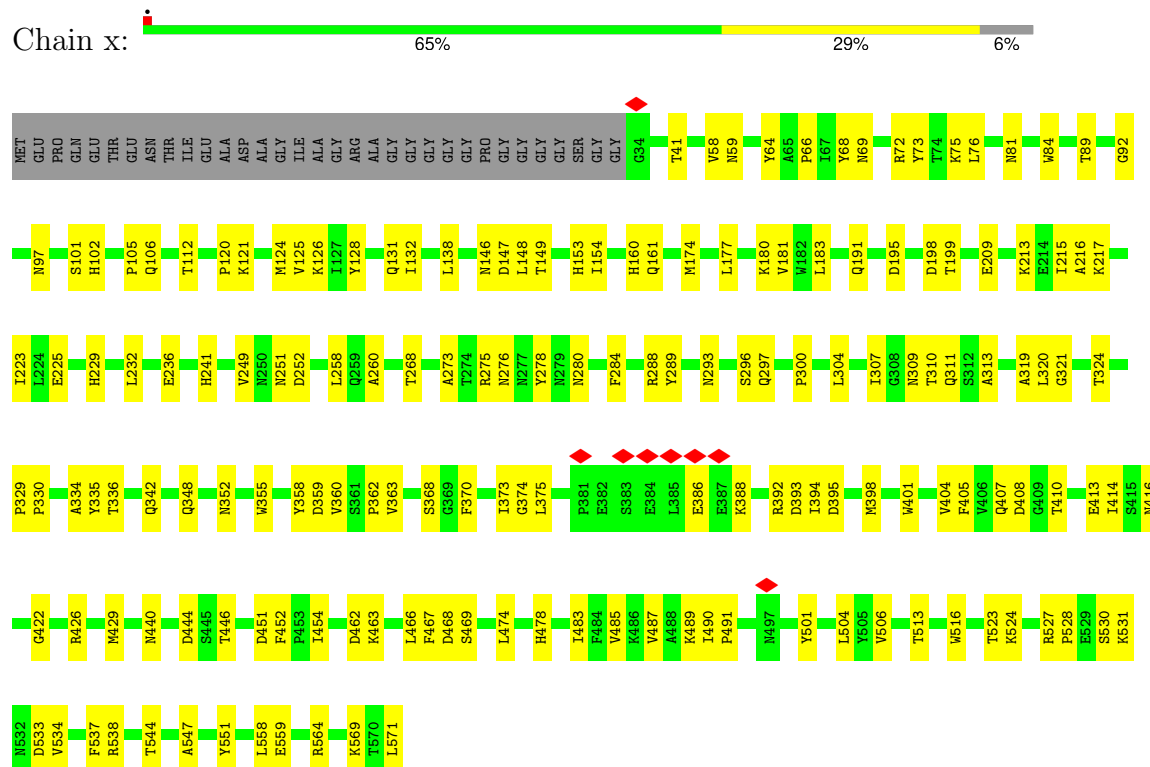
Chain u: 65% 29% 6%



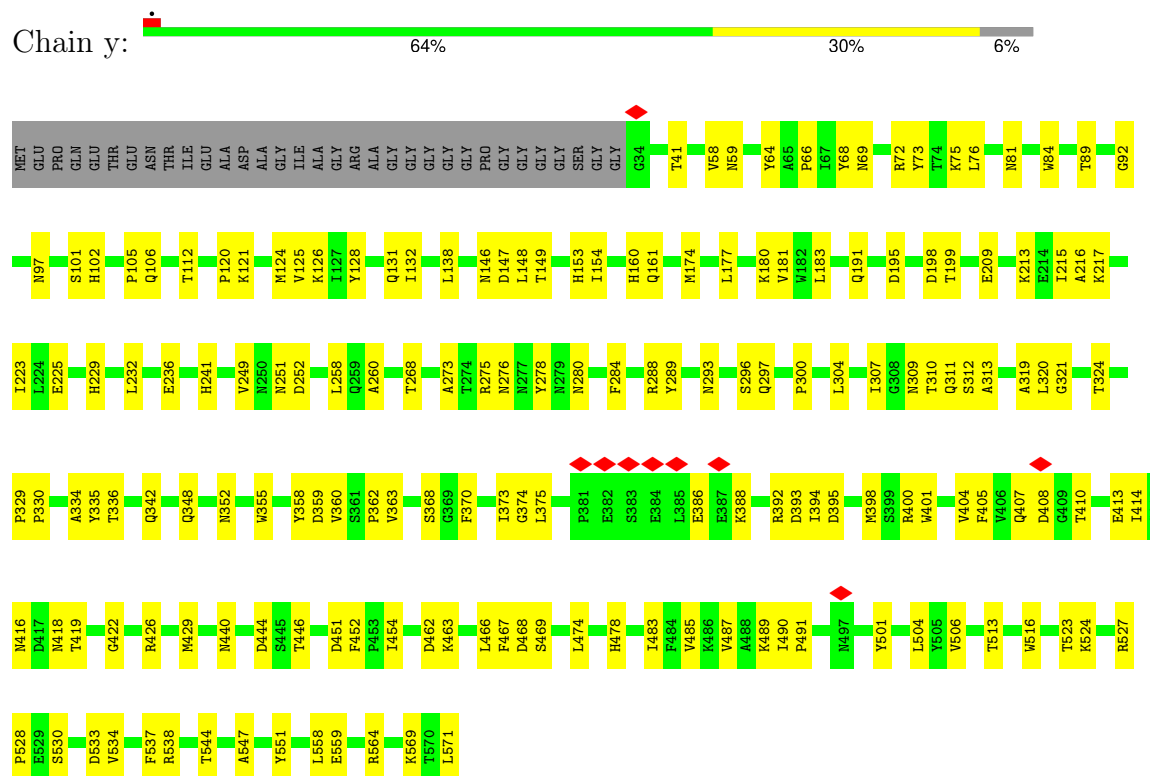




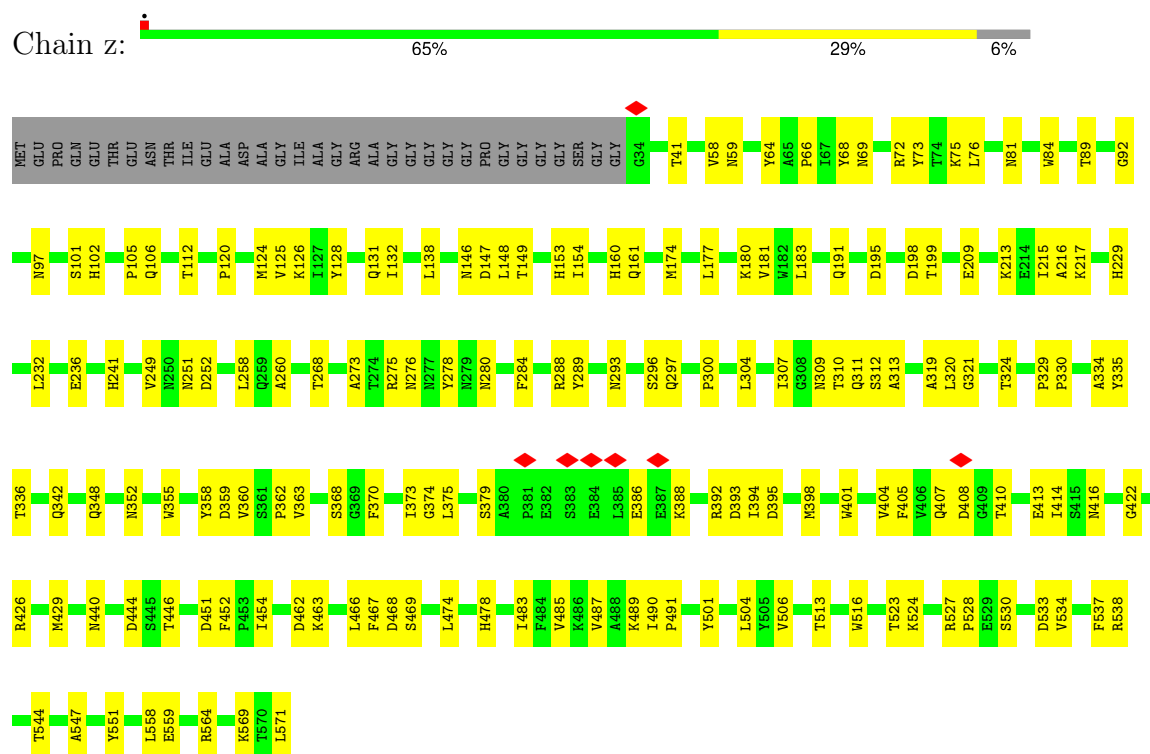
- Molecule 1: VP2



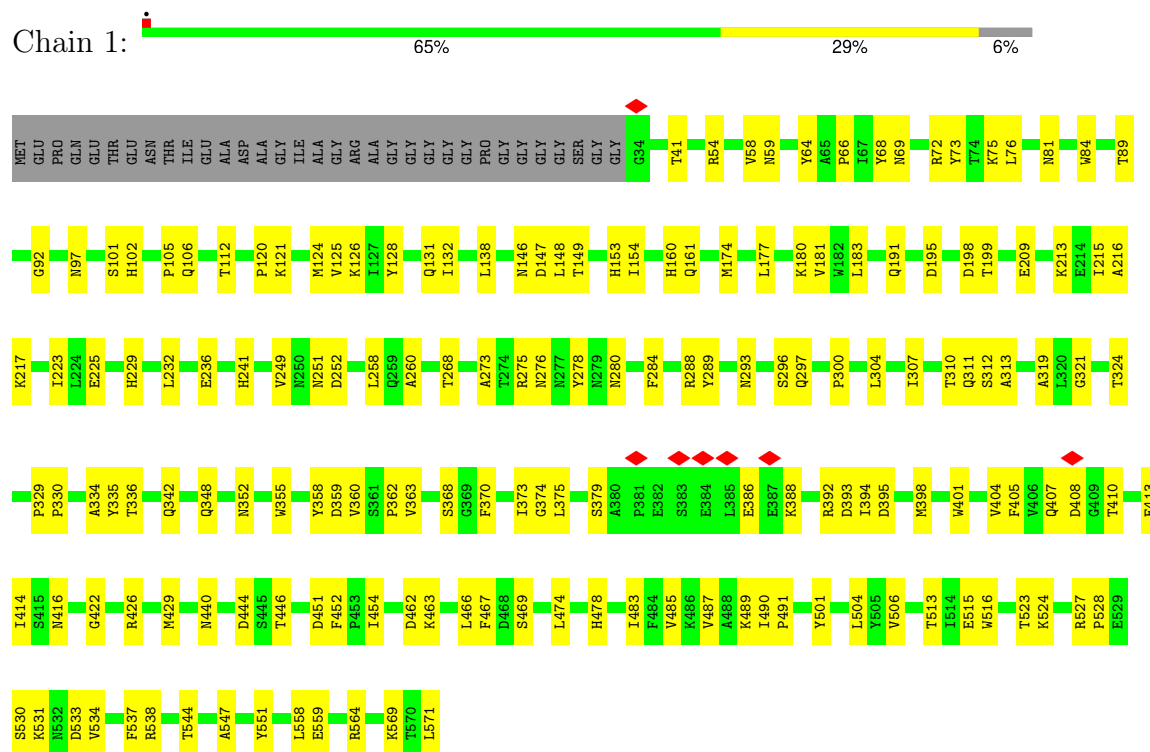
- Molecule 1: VP2



- Molecule 1: VP2

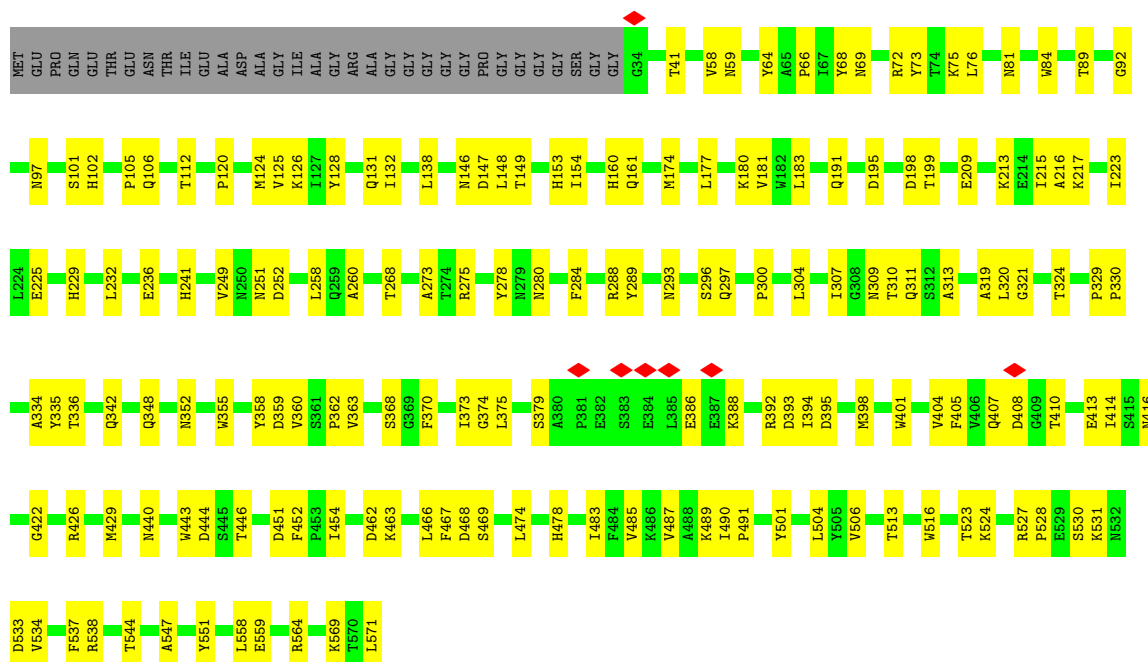


- Molecule 1: VP2

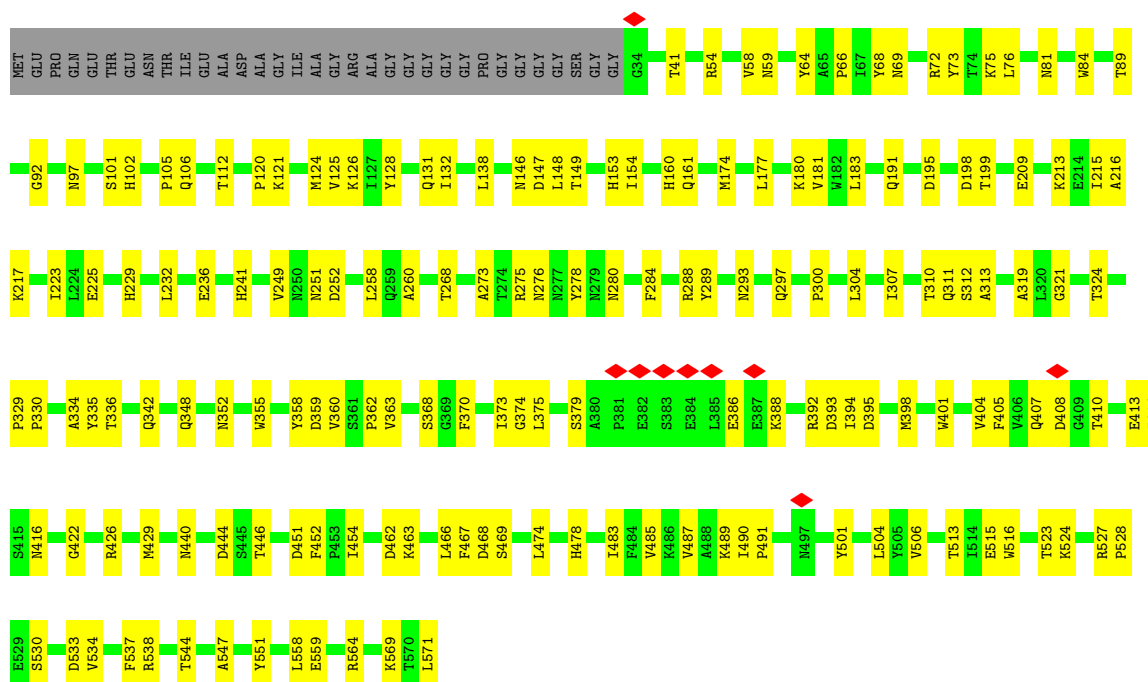


- Molecule 1: VP2

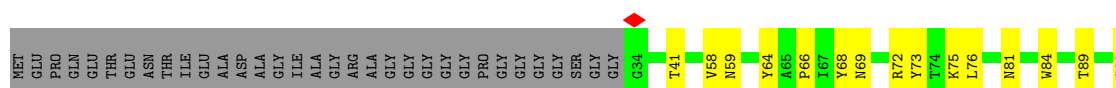


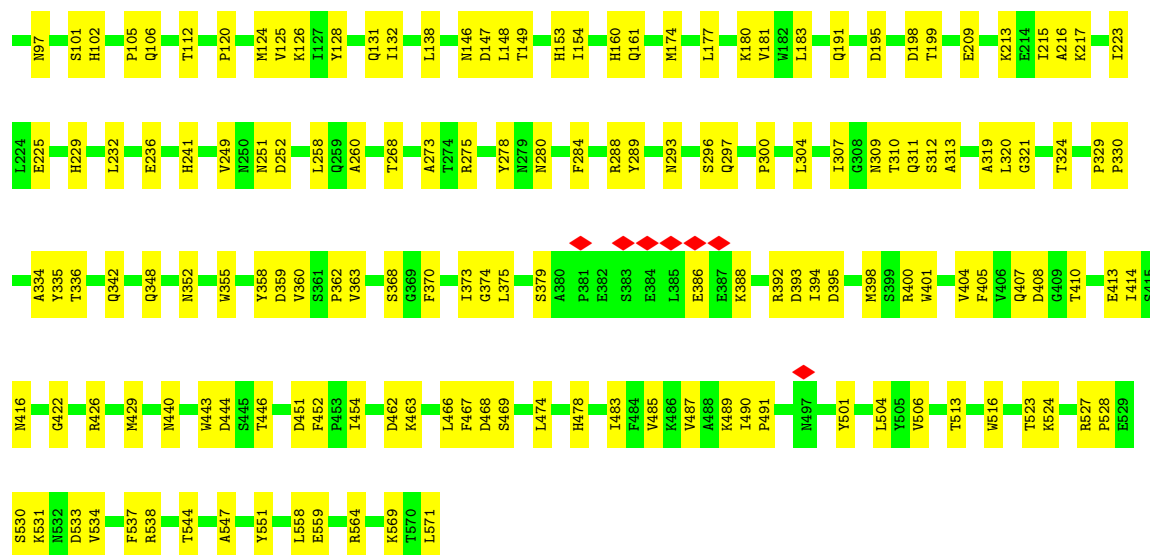


• Molecule 1: VP2

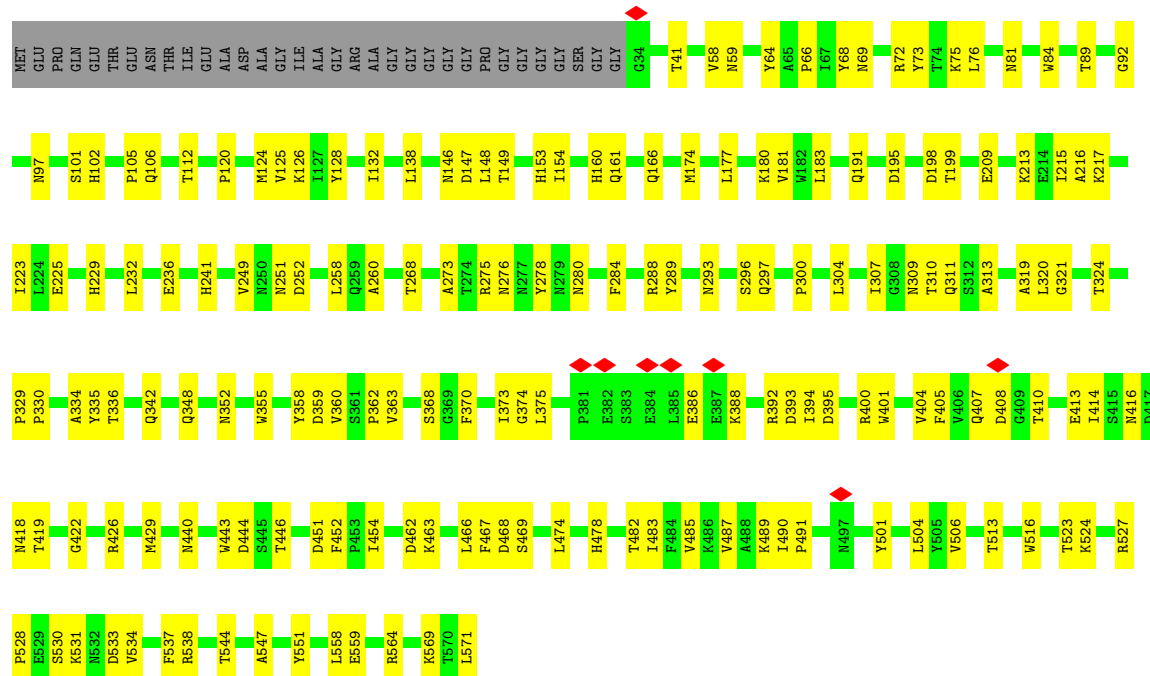


• Molecule 1: VP2

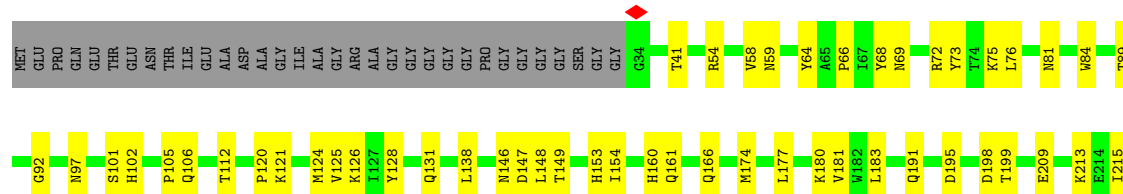




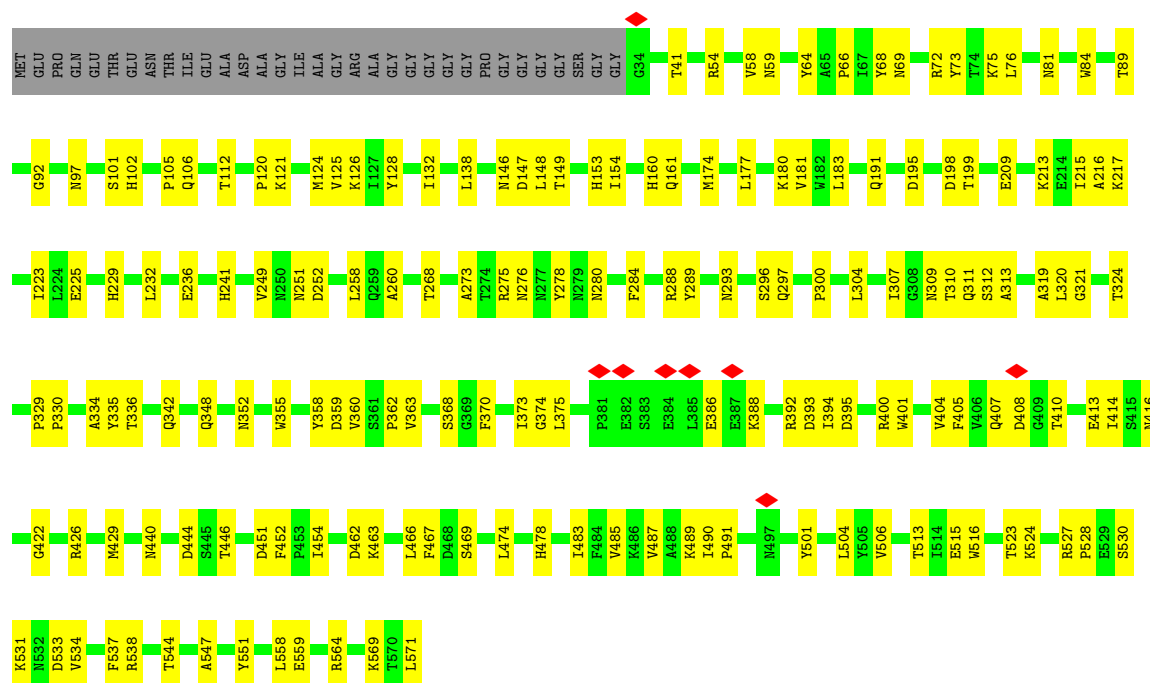
• Molecule 1: VP2



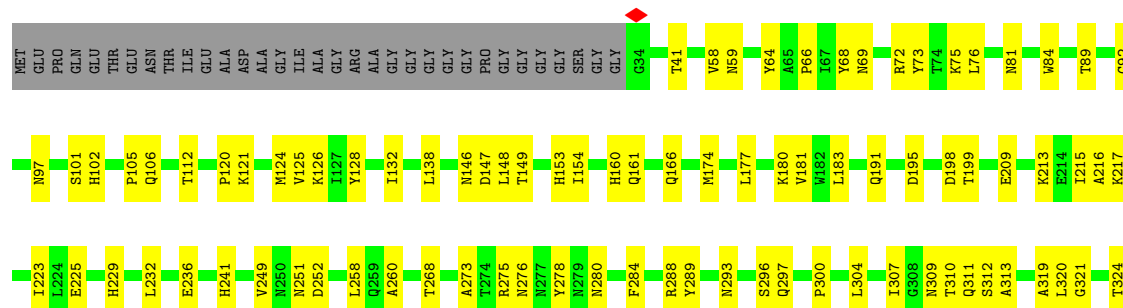
• Molecule 1: VP2

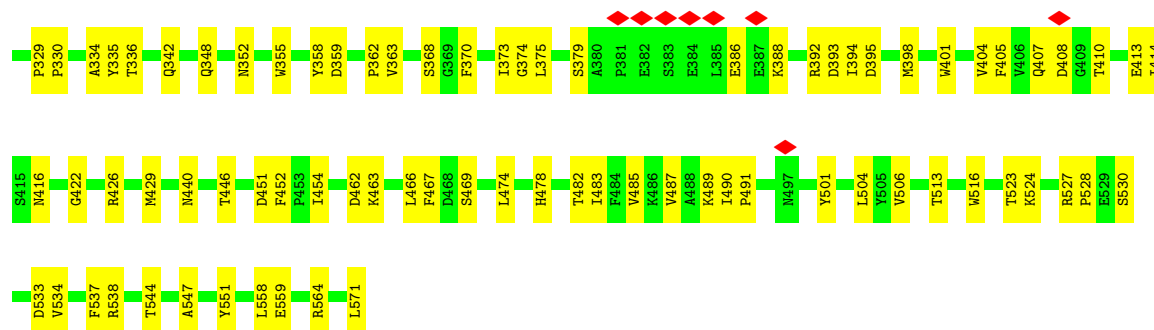


- Molecule 1: VP2



- Molecule 1: VP2





## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	50866	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	59	Depositor
Minimum defocus (nm)	400	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-64 (8k x 8k)	Depositor
Maximum map value	18.235	Depositor
Minimum map value	-11.460	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	424.12, 424.12, 424.12	wwPDB
Map dimensions	460, 460, 460	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.922, 0.922, 0.922	Depositor



## 5 Model quality [i](#)

### 5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 5$	RMSZ	$\# Z  > 5$
1	1	0.44	0/4445	0.51	0/6058
1	2	0.44	0/4445	0.51	0/6058
1	3	0.44	0/4445	0.51	0/6058
1	4	0.45	0/4445	0.51	0/6058
1	5	0.44	0/4445	0.51	0/6058
1	6	0.45	0/4445	0.51	0/6058
1	7	0.45	0/4445	0.51	0/6058
1	8	0.45	0/4445	0.51	0/6058
1	A	0.44	0/4445	0.51	0/6058
1	B	0.44	0/4445	0.51	0/6058
1	C	0.45	0/4445	0.51	0/6058
1	D	0.45	0/4445	0.51	0/6058
1	E	0.45	0/4445	0.51	0/6058
1	F	0.44	0/4445	0.51	0/6058
1	G	0.45	0/4445	0.51	0/6058
1	H	0.44	0/4445	0.51	0/6058
1	I	0.44	0/4445	0.51	0/6058
1	J	0.44	0/4445	0.51	0/6058
1	K	0.44	0/4445	0.51	0/6058
1	L	0.45	0/4445	0.51	0/6058
1	M	0.45	0/4445	0.51	0/6058
1	N	0.44	0/4445	0.51	0/6058
1	O	0.45	0/4445	0.51	0/6058
1	P	0.44	0/4445	0.51	0/6058
1	Q	0.44	0/4445	0.51	0/6058
1	R	0.44	0/4445	0.51	0/6058
1	S	0.44	0/4445	0.51	0/6058
1	T	0.44	0/4445	0.51	0/6058
1	U	0.45	0/4445	0.51	0/6058
1	V	0.44	0/4445	0.51	0/6058
1	W	0.45	0/4445	0.51	0/6058
1	X	0.44	0/4445	0.51	0/6058
1	Y	0.45	0/4445	0.51	0/6058
1	Z	0.45	0/4445	0.51	0/6058

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	a	0.44	0/4445	0.51	0/6058
1	b	0.44	0/4445	0.51	0/6058
1	c	0.44	0/4445	0.51	0/6058
1	d	0.44	0/4445	0.51	0/6058
1	e	0.44	0/4445	0.51	0/6058
1	f	0.44	0/4445	0.51	0/6058
1	g	0.44	0/4445	0.51	0/6058
1	h	0.45	0/4445	0.51	0/6058
1	i	0.45	0/4445	0.51	0/6058
1	j	0.45	0/4445	0.51	0/6058
1	k	0.45	0/4445	0.51	0/6058
1	l	0.45	0/4445	0.51	0/6058
1	m	0.45	0/4445	0.51	0/6058
1	n	0.44	0/4445	0.51	0/6058
1	o	0.44	0/4445	0.51	0/6058
1	p	0.44	0/4445	0.51	0/6058
1	q	0.44	0/4445	0.51	0/6058
1	r	0.44	0/4445	0.51	0/6058
1	s	0.45	0/4445	0.51	0/6058
1	t	0.44	0/4445	0.51	0/6058
1	u	0.44	0/4445	0.51	0/6058
1	v	0.44	0/4445	0.51	0/6058
1	w	0.44	0/4445	0.51	0/6058
1	x	0.44	0/4445	0.51	0/6058
1	y	0.44	0/4445	0.51	0/6058
1	z	0.44	0/4445	0.51	0/6058
All	All	0.44	0/266700	0.51	0/363480

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4316	0	4058	146	0
1	2	4316	0	4058	148	0
1	3	4316	0	4058	145	0
1	4	4316	0	4058	148	0
1	5	4316	0	4058	145	0
1	6	4316	0	4058	142	0
1	7	4316	0	4058	143	0
1	8	4316	0	4058	143	0
1	A	4316	0	4058	146	0
1	B	4316	0	4058	145	0
1	C	4316	0	4058	149	0
1	D	4316	0	4058	147	0
1	E	4316	0	4058	144	0
1	F	4316	0	4058	149	0
1	G	4316	0	4058	146	0
1	H	4316	0	4058	142	0
1	I	4316	0	4058	146	0
1	J	4316	0	4058	148	0
1	K	4316	0	4058	148	0
1	L	4316	0	4058	140	0
1	M	4316	0	4058	144	0
1	N	4316	0	4058	142	0
1	O	4316	0	4058	145	0
1	P	4316	0	4058	146	0
1	Q	4316	0	4058	143	0
1	R	4316	0	4058	144	0
1	S	4316	0	4058	145	0
1	T	4316	0	4058	148	0
1	U	4316	0	4058	147	0
1	V	4316	0	4058	146	0
1	W	4316	0	4058	145	0
1	X	4316	0	4058	145	0
1	Y	4316	0	4058	146	0
1	Z	4316	0	4058	144	0
1	a	4316	0	4058	145	0
1	b	4316	0	4058	147	0
1	c	4316	0	4058	149	0
1	d	4316	0	4058	145	0
1	e	4316	0	4058	149	0
1	f	4316	0	4058	145	0
1	g	4316	0	4058	144	0
1	h	4316	0	4058	144	0
1	i	4316	0	4058	144	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4316	0	4058	147	0
1	k	4316	0	4058	144	0
1	l	4316	0	4058	146	0
1	m	4316	0	4058	146	0
1	n	4316	0	4058	145	0
1	o	4316	0	4058	144	0
1	p	4316	0	4058	142	0
1	q	4316	0	4058	145	0
1	r	4316	0	4058	145	0
1	s	4316	0	4058	145	0
1	t	4316	0	4058	147	0
1	u	4316	0	4058	145	0
1	v	4316	0	4058	144	0
1	w	4316	0	4058	144	0
1	x	4316	0	4058	144	0
1	y	4316	0	4058	147	0
1	z	4316	0	4058	144	0
All	All	258960	0	243480	6757	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 13.

All (6757) 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:H:275:ARG:HH22	1:H:414:ILE:CD1	1.59	1.16
1:F:275:ARG:HH22	1:F:414:ILE:CD1	1.59	1.15
1:R:275:ARG:HH22	1:R:414:ILE:CD1	1.59	1.15
1:X:275:ARG:HH22	1:X:414:ILE:CD1	1.59	1.15
1:o:275:ARG:HH22	1:o:414:ILE:CD1	1.59	1.15
1:q:275:ARG:HH22	1:q:414:ILE:CD1	1.59	1.15
1:y:275:ARG:HH22	1:y:414:ILE:CD1	1.59	1.15
1:5:275:ARG:HH22	1:5:414:ILE:CD1	1.59	1.15
1:Z:275:ARG:HH22	1:Z:414:ILE:CD1	1.59	1.15
1:8:275:ARG:HH22	1:8:414:ILE:CD1	1.59	1.15
1:G:275:ARG:HH22	1:G:414:ILE:CD1	1.60	1.15
1:t:275:ARG:HH22	1:t:414:ILE:CD1	1.60	1.15
1:I:275:ARG:HH22	1:I:414:ILE:CD1	1.59	1.15
1:O:275:ARG:HH22	1:O:414:ILE:CD1	1.60	1.15
1:V:275:ARG:HH22	1:V:414:ILE:CD1	1.60	1.15
1:W:275:ARG:HH22	1:W:414:ILE:CD1	1.59	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:275:ARG:HH22	1:l:414:ILE:CD1	1.60	1.15
1:p:275:ARG:HH22	1:p:414:ILE:CD1	1.60	1.15
1:u:275:ARG:HH22	1:u:414:ILE:CD1	1.59	1.15
1:6:275:ARG:HH22	1:6:414:ILE:CD1	1.59	1.15
1:A:275:ARG:HH22	1:A:414:ILE:CD1	1.59	1.15
1:Y:275:ARG:HH22	1:Y:414:ILE:CD1	1.59	1.15
1:b:275:ARG:HH22	1:b:414:ILE:CD1	1.59	1.15
1:f:275:ARG:HH22	1:f:414:ILE:CD1	1.59	1.15
1:v:275:ARG:HH22	1:v:414:ILE:CD1	1.59	1.15
1:1:275:ARG:HH22	1:1:414:ILE:CD1	1.59	1.15
1:B:275:ARG:HH22	1:B:414:ILE:CD1	1.59	1.14
1:P:275:ARG:HH22	1:P:414:ILE:CD1	1.59	1.14
1:3:275:ARG:HH22	1:3:414:ILE:CD1	1.59	1.14
1:7:275:ARG:HH22	1:7:414:ILE:CD1	1.59	1.14
1:J:275:ARG:HH22	1:J:414:ILE:CD1	1.59	1.14
1:a:275:ARG:HH22	1:a:414:ILE:CD1	1.59	1.14
1:j:275:ARG:HH22	1:j:414:ILE:CD1	1.59	1.14
1:s:275:ARG:HH22	1:s:414:ILE:CD1	1.59	1.14
1:D:275:ARG:HH22	1:D:414:ILE:CD1	1.59	1.14
1:U:275:ARG:HH22	1:U:414:ILE:CD1	1.60	1.14
1:2:275:ARG:HH22	1:2:414:ILE:CD1	1.59	1.14
1:g:275:ARG:HH22	1:g:414:ILE:CD1	1.59	1.14
1:k:275:ARG:HH22	1:k:414:ILE:CD1	1.59	1.14
1:x:275:ARG:HH22	1:x:414:ILE:CD1	1.59	1.14
1:C:275:ARG:HH22	1:C:414:ILE:CD1	1.60	1.14
1:K:275:ARG:HH22	1:K:414:ILE:CD1	1.60	1.14
1:4:275:ARG:HH22	1:4:414:ILE:CD1	1.60	1.14
1:L:275:ARG:HH22	1:L:414:ILE:CD1	1.59	1.13
1:Q:275:ARG:HH22	1:Q:414:ILE:CD1	1.59	1.13
1:T:275:ARG:HH22	1:T:414:ILE:CD1	1.60	1.13
1:d:275:ARG:HH22	1:d:414:ILE:CD1	1.59	1.13
1:i:275:ARG:HH22	1:i:414:ILE:CD1	1.59	1.13
1:N:275:ARG:HH22	1:N:414:ILE:CD1	1.59	1.13
1:m:275:ARG:HH22	1:m:414:ILE:CD1	1.60	1.13
1:n:275:ARG:HH22	1:n:414:ILE:CD1	1.59	1.13
1:z:275:ARG:HH22	1:z:414:ILE:CD1	1.59	1.13
1:E:275:ARG:HH22	1:E:414:ILE:CD1	1.60	1.13
1:c:275:ARG:HH22	1:c:414:ILE:CD1	1.59	1.13
1:e:275:ARG:HH22	1:e:414:ILE:CD1	1.59	1.13
1:w:275:ARG:HH22	1:w:414:ILE:CD1	1.60	1.13
1:r:275:ARG:HH22	1:r:414:ILE:CD1	1.60	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:275:ARG:HH22	1:S:414:ILE:CD1	1.59	1.12
1:M:275:ARG:HH22	1:M:414:ILE:CD1	1.59	1.12
1:h:275:ARG:HH22	1:h:414:ILE:CD1	1.59	1.11
1:Y:275:ARG:HH22	1:Y:414:ILE:HD12	1.34	0.93
1:Z:275:ARG:HH22	1:Z:414:ILE:HD12	1.34	0.93
1:7:275:ARG:HH22	1:7:414:ILE:HD12	1.34	0.93
1:8:275:ARG:HH22	1:8:414:ILE:HD12	1.34	0.93
1:a:275:ARG:HH22	1:a:414:ILE:HD12	1.34	0.93
1:3:275:ARG:HH22	1:3:414:ILE:HD12	1.34	0.93
1:v:275:ARG:HH22	1:v:414:ILE:HD12	1.34	0.93
1:A:275:ARG:HH22	1:A:414:ILE:HD12	1.34	0.92
1:t:275:ARG:HH22	1:t:414:ILE:HD12	1.34	0.92
1:G:275:ARG:HH22	1:G:414:ILE:HD12	1.34	0.92
1:X:275:ARG:HH22	1:X:414:ILE:HD12	1.34	0.92
1:o:275:ARG:HH22	1:o:414:ILE:HD12	1.34	0.92
1:5:275:ARG:HH22	1:5:414:ILE:HD12	1.34	0.92
1:H:275:ARG:HH22	1:H:414:ILE:HD12	1.34	0.92
1:J:275:ARG:HH22	1:J:414:ILE:HD12	1.34	0.92
1:W:275:ARG:HH22	1:W:414:ILE:HD12	1.34	0.92
1:b:362:PRO:HB3	1:b:374:GLY:HA3	1.52	0.92
1:f:362:PRO:HB3	1:f:374:GLY:HA3	1.52	0.92
1:z:362:PRO:HB3	1:z:374:GLY:HA3	1.52	0.92
1:2:275:ARG:HH22	1:2:414:ILE:HD12	1.34	0.92
1:6:275:ARG:HH22	1:6:414:ILE:HD12	1.34	0.92
1:m:275:ARG:HH22	1:m:414:ILE:HD12	1.34	0.92
1:B:275:ARG:HH22	1:B:414:ILE:HD12	1.34	0.92
1:L:362:PRO:HB3	1:L:374:GLY:HA3	1.52	0.92
1:L:275:ARG:HH22	1:L:414:ILE:HD12	1.34	0.92
1:T:275:ARG:HH22	1:T:414:ILE:HD12	1.34	0.92
1:1:275:ARG:HH22	1:1:414:ILE:HD12	1.34	0.92
1:E:362:PRO:HB3	1:E:374:GLY:HA3	1.52	0.92
1:I:275:ARG:HH22	1:I:414:ILE:HD12	1.34	0.92
1:u:275:ARG:HH22	1:u:414:ILE:HD12	1.34	0.92
1:w:362:PRO:HB3	1:w:374:GLY:HA3	1.52	0.92
1:X:362:PRO:HB3	1:X:374:GLY:HA3	1.52	0.91
1:G:362:PRO:HB3	1:G:374:GLY:HA3	1.52	0.91
1:d:362:PRO:HB3	1:d:374:GLY:HA3	1.52	0.91
1:t:362:PRO:HB3	1:t:374:GLY:HA3	1.52	0.91
1:z:275:ARG:HH22	1:z:414:ILE:HD12	1.34	0.91
1:n:362:PRO:HB3	1:n:374:GLY:HA3	1.52	0.91
1:o:362:PRO:HB3	1:o:374:GLY:HA3	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:PRO:HB3	1:B:374:GLY:HA3	1.52	0.91
1:V:275:ARG:HH22	1:V:414:ILE:HD12	1.34	0.91
1:1:362:PRO:HB3	1:1:374:GLY:HA3	1.52	0.91
1:6:362:PRO:HB3	1:6:374:GLY:HA3	1.52	0.91
1:C:362:PRO:HB3	1:C:374:GLY:HA3	1.52	0.91
1:W:362:PRO:HB3	1:W:374:GLY:HA3	1.52	0.91
1:p:275:ARG:HH22	1:p:414:ILE:HD12	1.34	0.91
1:K:362:PRO:HB3	1:K:374:GLY:HA3	1.52	0.91
1:c:362:PRO:HB3	1:c:374:GLY:HA3	1.52	0.91
1:e:362:PRO:HB3	1:e:374:GLY:HA3	1.52	0.91
1:k:362:PRO:HB3	1:k:374:GLY:HA3	1.52	0.90
1:C:275:ARG:HH22	1:C:414:ILE:HD12	1.34	0.90
1:D:362:PRO:HB3	1:D:374:GLY:HA3	1.52	0.90
1:J:362:PRO:HB3	1:J:374:GLY:HA3	1.52	0.90
1:g:362:PRO:HB3	1:g:374:GLY:HA3	1.52	0.90
1:j:362:PRO:HB3	1:j:374:GLY:HA3	1.52	0.90
1:4:362:PRO:HB3	1:4:374:GLY:HA3	1.52	0.90
1:K:275:ARG:HH22	1:K:414:ILE:HD12	1.34	0.90
1:Z:275:ARG:NH2	1:Z:414:ILE:CD1	2.35	0.90
1:2:362:PRO:HB3	1:2:374:GLY:HA3	1.52	0.90
1:8:275:ARG:NH2	1:8:414:ILE:CD1	2.35	0.90
1:E:275:ARG:NH2	1:E:414:ILE:CD1	2.35	0.90
1:P:362:PRO:HB3	1:P:374:GLY:HA3	1.52	0.90
1:Q:362:PRO:HB3	1:Q:374:GLY:HA3	1.52	0.90
1:g:275:ARG:HH22	1:g:414:ILE:HD12	1.34	0.90
1:7:362:PRO:HB3	1:7:374:GLY:HA3	1.52	0.90
1:H:362:PRO:HB3	1:H:374:GLY:HA3	1.52	0.90
1:I:362:PRO:HB3	1:I:374:GLY:HA3	1.52	0.90
1:S:362:PRO:HB3	1:S:374:GLY:HA3	1.52	0.90
1:V:362:PRO:HB3	1:V:374:GLY:HA3	1.52	0.90
1:Y:362:PRO:HB3	1:Y:374:GLY:HA3	1.52	0.90
1:u:362:PRO:HB3	1:u:374:GLY:HA3	1.52	0.90
1:w:275:ARG:HH22	1:w:414:ILE:HD12	1.34	0.90
1:w:275:ARG:NH2	1:w:414:ILE:CD1	2.35	0.90
1:x:362:PRO:HB3	1:x:374:GLY:HA3	1.52	0.90
1:5:362:PRO:HB3	1:5:374:GLY:HA3	1.52	0.90
1:A:275:ARG:NH2	1:A:414:ILE:CD1	2.35	0.90
1:I:275:ARG:NH2	1:I:414:ILE:CD1	2.35	0.90
1:g:275:ARG:NH2	1:g:414:ILE:CD1	2.35	0.90
1:p:362:PRO:HB3	1:p:374:GLY:HA3	1.52	0.90
1:v:362:PRO:HB3	1:v:374:GLY:HA3	1.52	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:275:ARG:HH22	1:4:414:ILE:HD12	1.34	0.90
1:A:362:PRO:HB3	1:A:374:GLY:HA3	1.52	0.90
1:C:275:ARG:NH2	1:C:414:ILE:CD1	2.35	0.90
1:M:362:PRO:HB3	1:M:374:GLY:HA3	1.52	0.90
1:P:275:ARG:HH22	1:P:414:ILE:HD12	1.34	0.90
1:S:275:ARG:HH22	1:S:414:ILE:HD12	1.34	0.90
1:d:275:ARG:HH22	1:d:414:ILE:HD12	1.34	0.90
1:d:275:ARG:NH2	1:d:414:ILE:CD1	2.35	0.90
1:f:275:ARG:HH22	1:f:414:ILE:HD12	1.34	0.90
1:n:275:ARG:NH2	1:n:414:ILE:CD1	2.35	0.90
1:r:362:PRO:HB3	1:r:374:GLY:HA3	1.52	0.90
1:u:275:ARG:NH2	1:u:414:ILE:CD1	2.35	0.90
1:v:275:ARG:NH2	1:v:414:ILE:CD1	2.35	0.90
1:x:275:ARG:NH2	1:x:414:ILE:CD1	2.35	0.90
1:M:275:ARG:NH2	1:M:414:ILE:CD1	2.35	0.90
1:N:275:ARG:HH22	1:N:414:ILE:HD12	1.34	0.90
1:Q:275:ARG:NH2	1:Q:414:ILE:CD1	2.35	0.90
1:a:362:PRO:HB3	1:a:374:GLY:HA3	1.52	0.90
1:h:362:PRO:HB3	1:h:374:GLY:HA3	1.52	0.90
1:j:275:ARG:HH22	1:j:414:ILE:HD12	1.34	0.90
1:r:275:ARG:HH22	1:r:414:ILE:HD12	1.34	0.90
1:T:275:ARG:NH2	1:T:414:ILE:CD1	2.35	0.90
1:h:275:ARG:NH2	1:h:414:ILE:CD1	2.35	0.90
1:m:275:ARG:NH2	1:m:414:ILE:CD1	2.35	0.90
1:3:362:PRO:HB3	1:3:374:GLY:HA3	1.52	0.90
1:7:275:ARG:NH2	1:7:414:ILE:CD1	2.35	0.90
1:E:275:ARG:HH22	1:E:414:ILE:HD12	1.34	0.89
1:O:275:ARG:NH2	1:O:414:ILE:CD1	2.35	0.89
1:R:275:ARG:HH22	1:R:414:ILE:HD12	1.34	0.89
1:U:362:PRO:HB3	1:U:374:GLY:HA3	1.52	0.89
1:Y:275:ARG:NH2	1:Y:414:ILE:CD1	2.35	0.89
1:b:275:ARG:HH22	1:b:414:ILE:HD12	1.34	0.89
1:i:275:ARG:HH22	1:i:414:ILE:HD12	1.34	0.89
1:q:362:PRO:HB3	1:q:374:GLY:HA3	1.52	0.89
1:s:362:PRO:HB3	1:s:374:GLY:HA3	1.52	0.89
1:4:275:ARG:NH2	1:4:414:ILE:CD1	2.35	0.89
1:K:275:ARG:NH2	1:K:414:ILE:CD1	2.35	0.89
1:N:362:PRO:HB3	1:N:374:GLY:HA3	1.52	0.89
1:O:362:PRO:HB3	1:O:374:GLY:HA3	1.52	0.89
1:e:275:ARG:HH22	1:e:414:ILE:HD12	1.34	0.89
1:l:275:ARG:NH2	1:l:414:ILE:CD1	2.35	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:275:ARG:HH22	1:n:414:ILE:HD12	1.34	0.89
1:q:275:ARG:HH22	1:q:414:ILE:HD12	1.34	0.89
1:y:275:ARG:HH22	1:y:414:ILE:HD12	1.34	0.89
1:M:275:ARG:HH22	1:M:414:ILE:HD12	1.34	0.89
1:Z:362:PRO:HB3	1:Z:374:GLY:HA3	1.52	0.89
1:i:362:PRO:HB3	1:i:374:GLY:HA3	1.52	0.89
1:j:275:ARG:NH2	1:j:414:ILE:CD1	2.35	0.89
1:p:275:ARG:NH2	1:p:414:ILE:CD1	2.35	0.89
1:z:275:ARG:NH2	1:z:414:ILE:CD1	2.35	0.89
1:l:275:ARG:NH2	1:l:414:ILE:CD1	2.35	0.89
1:L:275:ARG:NH2	1:L:414:ILE:CD1	2.35	0.89
1:O:275:ARG:HH22	1:O:414:ILE:HD12	1.34	0.89
1:P:275:ARG:NH2	1:P:414:ILE:CD1	2.35	0.89
1:R:362:PRO:HB3	1:R:374:GLY:HA3	1.52	0.89
1:V:275:ARG:NH2	1:V:414:ILE:CD1	2.35	0.89
1:a:275:ARG:NH2	1:a:414:ILE:CD1	2.35	0.89
1:c:275:ARG:HH22	1:c:414:ILE:HD12	1.34	0.89
1:e:275:ARG:NH2	1:e:414:ILE:CD1	2.35	0.89
1:B:275:ARG:NH2	1:B:414:ILE:CD1	2.35	0.89
1:h:275:ARG:HH22	1:h:414:ILE:HD12	1.34	0.89
1:l:362:PRO:HB3	1:l:374:GLY:HA3	1.52	0.89
1:3:275:ARG:NH2	1:3:414:ILE:CD1	2.35	0.89
1:8:362:PRO:HB3	1:8:374:GLY:HA3	1.52	0.89
1:F:275:ARG:HH22	1:F:414:ILE:HD12	1.34	0.89
1:S:275:ARG:NH2	1:S:414:ILE:CD1	2.35	0.89
1:c:275:ARG:NH2	1:c:414:ILE:CD1	2.35	0.89
1:i:275:ARG:NH2	1:i:414:ILE:CD1	2.35	0.89
1:N:275:ARG:NH2	1:N:414:ILE:CD1	2.35	0.89
1:o:275:ARG:NH2	1:o:414:ILE:CD1	2.35	0.89
1:U:275:ARG:HH22	1:U:414:ILE:HD12	1.34	0.89
1:l:275:ARG:HH22	1:l:414:ILE:HD12	1.34	0.89
1:r:275:ARG:NH2	1:r:414:ILE:CD1	2.35	0.89
1:s:275:ARG:HH22	1:s:414:ILE:HD12	1.34	0.89
1:x:275:ARG:HH22	1:x:414:ILE:HD12	1.34	0.89
1:X:275:ARG:NH2	1:X:414:ILE:CD1	2.35	0.89
1:t:275:ARG:NH2	1:t:414:ILE:CD1	2.35	0.89
1:G:275:ARG:NH2	1:G:414:ILE:CD1	2.35	0.89
1:U:275:ARG:NH2	1:U:414:ILE:CD1	2.35	0.89
1:6:275:ARG:NH2	1:6:414:ILE:CD1	2.35	0.89
1:D:275:ARG:NH2	1:D:414:ILE:CD1	2.35	0.88
1:Q:275:ARG:HH22	1:Q:414:ILE:HD12	1.34	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:275:ARG:NH2	1:b:414:ILE:CD1	2.35	0.88
1:W:275:ARG:NH2	1:W:414:ILE:CD1	2.35	0.88
1:f:275:ARG:NH2	1:f:414:ILE:CD1	2.35	0.88
1:q:275:ARG:NH2	1:q:414:ILE:CD1	2.35	0.88
1:s:275:ARG:NH2	1:s:414:ILE:CD1	2.35	0.88
1:k:275:ARG:NH2	1:k:414:ILE:CD1	2.35	0.88
1:D:275:ARG:HH22	1:D:414:ILE:HD12	1.34	0.88
1:F:275:ARG:NH2	1:F:414:ILE:CD1	2.35	0.88
1:R:275:ARG:NH2	1:R:414:ILE:CD1	2.35	0.88
1:m:362:PRO:HB3	1:m:374:GLY:HA3	1.52	0.88
1:2:275:ARG:NH2	1:2:414:ILE:CD1	2.35	0.88
1:5:275:ARG:NH2	1:5:414:ILE:CD1	2.35	0.88
1:y:275:ARG:NH2	1:y:414:ILE:CD1	2.35	0.88
1:H:275:ARG:NH2	1:H:414:ILE:CD1	2.35	0.88
1:J:275:ARG:NH2	1:J:414:ILE:CD1	2.35	0.88
1:y:362:PRO:HB3	1:y:374:GLY:HA3	1.52	0.88
1:F:362:PRO:HB3	1:F:374:GLY:HA3	1.52	0.88
1:T:362:PRO:HB3	1:T:374:GLY:HA3	1.52	0.88
1:k:275:ARG:HH22	1:k:414:ILE:HD12	1.34	0.88
1:d:275:ARG:NH2	1:d:414:ILE:HD11	1.96	0.81
1:E:275:ARG:NH2	1:E:414:ILE:HD11	1.95	0.81
1:N:275:ARG:NH2	1:N:414:ILE:HD11	1.95	0.81
1:P:275:ARG:NH2	1:P:414:ILE:HD11	1.96	0.81
1:Q:275:ARG:NH2	1:Q:414:ILE:HD11	1.96	0.81
1:T:275:ARG:NH2	1:T:414:ILE:HD11	1.96	0.81
1:Z:275:ARG:NH2	1:Z:414:ILE:HD11	1.95	0.81
1:a:275:ARG:NH2	1:a:414:ILE:HD11	1.96	0.81
1:g:275:ARG:NH2	1:g:414:ILE:HD11	1.96	0.81
1:v:275:ARG:NH2	1:v:414:ILE:HD11	1.96	0.81
1:w:275:ARG:NH2	1:w:414:ILE:HD11	1.96	0.81
1:x:275:ARG:NH2	1:x:414:ILE:HD11	1.96	0.81
1:3:275:ARG:NH2	1:3:414:ILE:HD11	1.96	0.81
1:6:275:ARG:NH2	1:6:414:ILE:HD11	1.96	0.81
1:8:275:ARG:NH2	1:8:414:ILE:HD11	1.95	0.81
1:A:275:ARG:NH2	1:A:414:ILE:HD11	1.96	0.81
1:C:275:ARG:NH2	1:C:414:ILE:HD11	1.96	0.81
1:I:275:ARG:NH2	1:I:414:ILE:HD11	1.96	0.81
1:W:275:ARG:NH2	1:W:414:ILE:HD11	1.96	0.81
1:i:275:ARG:NH2	1:i:414:ILE:HD11	1.96	0.81
1:j:275:ARG:NH2	1:j:414:ILE:HD11	1.96	0.81
1:m:275:ARG:NH2	1:m:414:ILE:HD11	1.96	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:275:ARG:HH22	1:P:414:ILE:HD11	1.46	0.81
1:u:275:ARG:NH2	1:u:414:ILE:HD11	1.96	0.81
1:7:275:ARG:NH2	1:7:414:ILE:HD11	1.95	0.81
1:R:275:ARG:NH2	1:R:414:ILE:HD11	1.96	0.81
1:Y:275:ARG:NH2	1:Y:414:ILE:HD11	1.95	0.81
1:j:275:ARG:HH22	1:j:414:ILE:HD11	1.46	0.81
1:q:275:ARG:NH2	1:q:414:ILE:HD11	1.95	0.81
1:s:275:ARG:HH22	1:s:414:ILE:HD11	1.46	0.81
1:T:275:ARG:HH22	1:T:414:ILE:HD11	1.46	0.81
1:U:275:ARG:HH22	1:U:414:ILE:HD11	1.46	0.81
1:c:275:ARG:NH2	1:c:414:ILE:HD11	1.96	0.81
1:e:275:ARG:HH22	1:e:414:ILE:HD11	1.46	0.81
1:e:275:ARG:NH2	1:e:414:ILE:HD11	1.96	0.81
1:m:275:ARG:HH22	1:m:414:ILE:HD11	1.46	0.81
1:B:275:ARG:NH2	1:B:414:ILE:HD11	1.96	0.81
1:Y:275:ARG:HH22	1:Y:414:ILE:HD11	1.46	0.81
1:c:275:ARG:HH22	1:c:414:ILE:HD11	1.46	0.81
1:1:275:ARG:NH2	1:1:414:ILE:HD11	1.96	0.81
1:E:275:ARG:HH22	1:E:414:ILE:HD11	1.46	0.81
1:n:275:ARG:HH22	1:n:414:ILE:HD11	1.46	0.81
1:w:275:ARG:HH22	1:w:414:ILE:HD11	1.46	0.81
1:7:275:ARG:HH22	1:7:414:ILE:HD11	1.46	0.81
1:n:275:ARG:NH2	1:n:414:ILE:HD11	1.96	0.80
1:O:275:ARG:NH2	1:O:414:ILE:HD11	1.96	0.80
1:d:275:ARG:HH22	1:d:414:ILE:HD11	1.46	0.80
1:5:275:ARG:NH2	1:5:414:ILE:HD11	1.96	0.80
1:G:275:ARG:HH22	1:G:414:ILE:HD11	1.46	0.80
1:l:275:ARG:NH2	1:l:414:ILE:HD11	1.96	0.80
1:t:275:ARG:HH22	1:t:414:ILE:HD11	1.46	0.80
1:H:275:ARG:NH2	1:H:414:ILE:HD11	1.96	0.80
1:M:275:ARG:HH22	1:M:414:ILE:HD11	1.46	0.80
1:h:275:ARG:HH22	1:h:414:ILE:HD11	1.46	0.80
1:i:275:ARG:HH22	1:i:414:ILE:HD11	1.46	0.80
1:F:275:ARG:HH22	1:F:414:ILE:HD11	1.46	0.80
1:N:275:ARG:HH22	1:N:414:ILE:HD11	1.46	0.80
1:6:275:ARG:HH22	1:6:414:ILE:HD11	1.46	0.80
1:S:275:ARG:NH2	1:S:414:ILE:HD11	1.95	0.80
1:W:275:ARG:HH22	1:W:414:ILE:HD11	1.46	0.80
1:X:275:ARG:NH2	1:X:414:ILE:HD11	1.95	0.80
1:L:275:ARG:HH22	1:L:414:ILE:HD11	1.46	0.80
1:y:275:ARG:HH22	1:y:414:ILE:HD11	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:275:ARG:HH22	1:z:414:ILE:HD11	1.46	0.80
1:2:275:ARG:NH2	1:2:414:ILE:HD11	1.95	0.80
1:D:275:ARG:NH2	1:D:414:ILE:HD11	1.95	0.80
1:K:275:ARG:HH22	1:K:414:ILE:HD11	1.46	0.80
1:o:275:ARG:NH2	1:o:414:ILE:HD11	1.95	0.80
1:4:275:ARG:HH22	1:4:414:ILE:HD11	1.46	0.80
1:k:275:ARG:NH2	1:k:414:ILE:HD11	1.96	0.80
1:r:275:ARG:NH2	1:r:414:ILE:HD11	1.96	0.80
1:F:275:ARG:NH2	1:F:414:ILE:HD11	1.96	0.80
1:J:275:ARG:NH2	1:J:414:ILE:HD11	1.95	0.80
1:M:275:ARG:NH2	1:M:414:ILE:HD11	1.95	0.80
1:f:275:ARG:NH2	1:f:414:ILE:HD11	1.96	0.80
1:v:275:ARG:HH22	1:v:414:ILE:HD11	1.46	0.80
1:y:275:ARG:NH2	1:y:414:ILE:HD11	1.96	0.80
1:R:275:ARG:HH22	1:R:414:ILE:HD11	1.46	0.79
1:b:275:ARG:NH2	1:b:414:ILE:HD11	1.96	0.79
1:q:275:ARG:HH22	1:q:414:ILE:HD11	1.46	0.79
1:C:275:ARG:HH22	1:C:414:ILE:HD11	1.46	0.79
1:g:275:ARG:HH22	1:g:414:ILE:HD11	1.46	0.79
1:h:275:ARG:NH2	1:h:414:ILE:HD11	1.95	0.79
1:A:275:ARG:HH22	1:A:414:ILE:HD11	1.46	0.79
1:U:275:ARG:NH2	1:U:414:ILE:HD11	1.95	0.79
1:k:275:ARG:HH22	1:k:414:ILE:HD11	1.46	0.79
1:s:275:ARG:NH2	1:s:414:ILE:HD11	1.95	0.79
1:b:275:ARG:HH22	1:b:414:ILE:HD11	1.46	0.79
1:K:275:ARG:NH2	1:K:414:ILE:HD11	1.96	0.79
1:f:275:ARG:HH22	1:f:414:ILE:HD11	1.46	0.79
1:G:275:ARG:NH2	1:G:414:ILE:HD11	1.95	0.79
1:p:275:ARG:NH2	1:p:414:ILE:HD11	1.96	0.78
1:4:275:ARG:NH2	1:4:414:ILE:HD11	1.96	0.78
1:I:275:ARG:HH22	1:I:414:ILE:HD11	1.46	0.78
1:t:275:ARG:NH2	1:t:414:ILE:HD11	1.96	0.78
1:J:275:ARG:HH22	1:J:414:ILE:HD11	1.46	0.78
1:V:275:ARG:NH2	1:V:414:ILE:HD11	1.96	0.78
1:u:275:ARG:HH22	1:u:414:ILE:HD11	1.46	0.78
1:z:275:ARG:NH2	1:z:414:ILE:HD11	1.95	0.78
1:2:275:ARG:HH22	1:2:414:ILE:HD11	1.46	0.78
1:D:275:ARG:HH22	1:D:414:ILE:HD11	1.46	0.78
1:L:275:ARG:NH2	1:L:414:ILE:HD11	1.96	0.77
1:3:275:ARG:HH22	1:3:414:ILE:HD11	1.46	0.76
1:a:275:ARG:HH22	1:a:414:ILE:HD11	1.46	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:275:ARG:HH22	1:1:414:ILE:HD11	1.46	0.76
1:8:275:ARG:HH22	1:8:414:ILE:HD11	1.46	0.76
1:B:275:ARG:HH22	1:B:414:ILE:HD11	1.46	0.76
1:V:275:ARG:HH22	1:V:414:ILE:HD11	1.46	0.76
1:Z:275:ARG:HH22	1:Z:414:ILE:HD11	1.46	0.76
1:A:249:VAL:HG22	1:A:474:LEU:HD11	1.68	0.76
1:c:249:VAL:HG22	1:c:474:LEU:HD11	1.68	0.76
1:e:249:VAL:HG22	1:e:474:LEU:HD11	1.68	0.76
1:h:249:VAL:HG22	1:h:474:LEU:HD11	1.68	0.76
1:v:249:VAL:HG22	1:v:474:LEU:HD11	1.68	0.76
1:M:249:VAL:HG22	1:M:474:LEU:HD11	1.68	0.76
1:S:249:VAL:HG22	1:S:474:LEU:HD11	1.68	0.76
1:r:249:VAL:HG22	1:r:474:LEU:HD11	1.68	0.76
1:R:249:VAL:HG22	1:R:474:LEU:HD11	1.68	0.75
1:q:249:VAL:HG22	1:q:474:LEU:HD11	1.68	0.75
1:B:249:VAL:HG22	1:B:474:LEU:HD11	1.68	0.75
1:D:280:ASN:ND2	1:D:416:ASN:O	2.20	0.75
1:L:280:ASN:ND2	1:L:416:ASN:O	2.20	0.75
1:k:249:VAL:HG22	1:k:474:LEU:HD11	1.68	0.75
1:t:280:ASN:ND2	1:t:416:ASN:O	2.20	0.75
1:z:280:ASN:ND2	1:z:416:ASN:O	2.20	0.75
1:1:249:VAL:HG22	1:1:474:LEU:HD11	1.68	0.75
1:B:280:ASN:ND2	1:B:416:ASN:O	2.20	0.75
1:D:249:VAL:HG22	1:D:474:LEU:HD11	1.68	0.75
1:G:280:ASN:ND2	1:G:416:ASN:O	2.20	0.75
1:g:280:ASN:ND2	1:g:416:ASN:O	2.20	0.75
1:k:280:ASN:ND2	1:k:416:ASN:O	2.20	0.75
1:1:280:ASN:ND2	1:1:416:ASN:O	2.20	0.75
1:C:280:ASN:ND2	1:C:416:ASN:O	2.20	0.75
1:L:249:VAL:HG22	1:L:474:LEU:HD11	1.68	0.75
1:Q:280:ASN:ND2	1:Q:416:ASN:O	2.20	0.75
1:S:280:ASN:ND2	1:S:416:ASN:O	2.20	0.75
1:X:249:VAL:HG22	1:X:474:LEU:HD11	1.68	0.75
1:Z:280:ASN:ND2	1:Z:416:ASN:O	2.20	0.75
1:c:280:ASN:ND2	1:c:416:ASN:O	2.20	0.75
1:j:280:ASN:ND2	1:j:416:ASN:O	2.20	0.75
1:r:280:ASN:ND2	1:r:416:ASN:O	2.20	0.75
1:z:249:VAL:HG22	1:z:474:LEU:HD11	1.68	0.75
1:6:280:ASN:ND2	1:6:416:ASN:O	2.20	0.75
1:8:280:ASN:ND2	1:8:416:ASN:O	2.20	0.75
1:H:249:VAL:HG22	1:H:474:LEU:HD11	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:275:ARG:HH22	1:H:414:ILE:HD11	1.46	0.75
1:K:249:VAL:HG22	1:K:474:LEU:HD11	1.68	0.75
1:P:280:ASN:ND2	1:P:416:ASN:O	2.20	0.75
1:R:280:ASN:ND2	1:R:416:ASN:O	2.20	0.75
1:W:280:ASN:ND2	1:W:416:ASN:O	2.20	0.75
1:e:280:ASN:ND2	1:e:416:ASN:O	2.20	0.75
1:f:249:VAL:HG22	1:f:474:LEU:HD11	1.68	0.75
1:j:249:VAL:HG22	1:j:474:LEU:HD11	1.68	0.75
1:o:249:VAL:HG22	1:o:474:LEU:HD11	1.68	0.75
1:q:280:ASN:ND2	1:q:416:ASN:O	2.20	0.75
1:x:280:ASN:ND2	1:x:416:ASN:O	2.20	0.75
1:2:249:VAL:HG22	1:2:474:LEU:HD11	1.68	0.75
1:5:275:ARG:HH22	1:5:414:ILE:HD11	1.46	0.75
1:F:249:VAL:HG22	1:F:474:LEU:HD11	1.68	0.75
1:G:249:VAL:HG22	1:G:474:LEU:HD11	1.68	0.75
1:J:249:VAL:HG22	1:J:474:LEU:HD11	1.68	0.75
1:J:280:ASN:ND2	1:J:416:ASN:O	2.20	0.75
1:N:280:ASN:ND2	1:N:416:ASN:O	2.20	0.75
1:P:249:VAL:HG22	1:P:474:LEU:HD11	1.68	0.75
1:b:249:VAL:HG22	1:b:474:LEU:HD11	1.68	0.75
1:l:280:ASN:ND2	1:l:416:ASN:O	2.20	0.75
1:s:249:VAL:HG22	1:s:474:LEU:HD11	1.68	0.75
1:y:249:VAL:HG22	1:y:474:LEU:HD11	1.68	0.75
1:2:280:ASN:ND2	1:2:416:ASN:O	2.20	0.75
1:5:249:VAL:HG22	1:5:474:LEU:HD11	1.68	0.75
1:H:280:ASN:ND2	1:H:416:ASN:O	2.20	0.75
1:O:280:ASN:ND2	1:O:416:ASN:O	2.20	0.75
1:U:249:VAL:HG22	1:U:474:LEU:HD11	1.68	0.75
1:a:249:VAL:HG22	1:a:474:LEU:HD11	1.68	0.75
1:d:249:VAL:HG22	1:d:474:LEU:HD11	1.68	0.75
1:i:280:ASN:ND2	1:i:416:ASN:O	2.20	0.75
1:n:249:VAL:HG22	1:n:474:LEU:HD11	1.68	0.75
1:4:249:VAL:HG22	1:4:474:LEU:HD11	1.68	0.75
1:5:280:ASN:ND2	1:5:416:ASN:O	2.20	0.75
1:6:249:VAL:HG22	1:6:474:LEU:HD11	1.68	0.75
1:W:249:VAL:HG22	1:W:474:LEU:HD11	1.68	0.75
1:X:280:ASN:ND2	1:X:416:ASN:O	2.20	0.75
1:Y:280:ASN:ND2	1:Y:416:ASN:O	2.20	0.75
1:m:280:ASN:ND2	1:m:416:ASN:O	2.20	0.75
1:p:280:ASN:ND2	1:p:416:ASN:O	2.20	0.75
1:t:249:VAL:HG22	1:t:474:LEU:HD11	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:249:VAL:HG22	1:3:474:LEU:HD11	1.68	0.75
1:V:280:ASN:ND2	1:V:416:ASN:O	2.20	0.75
1:Z:249:VAL:HG22	1:Z:474:LEU:HD11	1.68	0.75
1:o:280:ASN:ND2	1:o:416:ASN:O	2.20	0.75
1:t:112:THR:O	1:t:251:ASN:ND2	2.20	0.75
1:G:112:THR:O	1:G:251:ASN:ND2	2.20	0.74
1:T:280:ASN:ND2	1:T:416:ASN:O	2.20	0.74
1:b:112:THR:O	1:b:251:ASN:ND2	2.20	0.74
1:f:112:THR:O	1:f:251:ASN:ND2	2.20	0.74
1:4:280:ASN:ND2	1:4:416:ASN:O	2.20	0.74
1:7:280:ASN:ND2	1:7:416:ASN:O	2.20	0.74
1:K:280:ASN:ND2	1:K:416:ASN:O	2.20	0.74
1:a:280:ASN:ND2	1:a:416:ASN:O	2.20	0.74
1:8:249:VAL:HG22	1:8:474:LEU:HD11	1.68	0.74
1:M:280:ASN:ND2	1:M:416:ASN:O	2.20	0.74
1:h:280:ASN:ND2	1:h:416:ASN:O	2.20	0.74
1:3:280:ASN:ND2	1:3:416:ASN:O	2.20	0.74
1:H:112:THR:O	1:H:251:ASN:ND2	2.20	0.74
1:Q:249:VAL:HG22	1:Q:474:LEU:HD11	1.68	0.74
1:p:112:THR:O	1:p:251:ASN:ND2	2.20	0.74
1:5:112:THR:O	1:5:251:ASN:ND2	2.20	0.74
1:C:249:VAL:HG22	1:C:474:LEU:HD11	1.68	0.74
1:L:112:THR:O	1:L:251:ASN:ND2	2.20	0.74
1:V:112:THR:O	1:V:251:ASN:ND2	2.20	0.74
1:Y:249:VAL:HG22	1:Y:474:LEU:HD11	1.68	0.74
1:u:280:ASN:ND2	1:u:416:ASN:O	2.20	0.74
1:z:112:THR:O	1:z:251:ASN:ND2	2.20	0.74
1:7:249:VAL:HG22	1:7:474:LEU:HD11	1.68	0.74
1:A:280:ASN:ND2	1:A:416:ASN:O	2.20	0.74
1:O:249:VAL:HG22	1:O:474:LEU:HD11	1.68	0.74
1:b:280:ASN:ND2	1:b:416:ASN:O	2.20	0.74
1:f:280:ASN:ND2	1:f:416:ASN:O	2.20	0.74
1:i:249:VAL:HG22	1:i:474:LEU:HD11	1.68	0.74
1:s:280:ASN:ND2	1:s:416:ASN:O	2.20	0.74
1:v:280:ASN:ND2	1:v:416:ASN:O	2.20	0.74
1:x:249:VAL:HG22	1:x:474:LEU:HD11	1.68	0.74
1:I:280:ASN:ND2	1:I:416:ASN:O	2.20	0.74
1:N:112:THR:O	1:N:251:ASN:ND2	2.20	0.74
1:U:280:ASN:ND2	1:U:416:ASN:O	2.20	0.74
1:d:280:ASN:ND2	1:d:416:ASN:O	2.20	0.74
1:g:249:VAL:HG22	1:g:474:LEU:HD11	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:249:VAL:HG22	1:w:474:LEU:HD11	1.68	0.74
1:y:280:ASN:ND2	1:y:416:ASN:O	2.20	0.74
1:F:280:ASN:ND2	1:F:416:ASN:O	2.20	0.74
1:N:249:VAL:HG22	1:N:474:LEU:HD11	1.68	0.74
1:X:112:THR:O	1:X:251:ASN:ND2	2.20	0.74
1:c:112:THR:O	1:c:251:ASN:ND2	2.20	0.74
1:e:112:THR:O	1:e:251:ASN:ND2	2.20	0.74
1:i:112:THR:O	1:i:251:ASN:ND2	2.20	0.74
1:n:280:ASN:ND2	1:n:416:ASN:O	2.20	0.74
1:E:249:VAL:HG22	1:E:474:LEU:HD11	1.68	0.74
1:l:249:VAL:HG22	1:l:474:LEU:HD11	1.68	0.74
1:o:112:THR:O	1:o:251:ASN:ND2	2.20	0.74
1:B:112:THR:O	1:B:251:ASN:ND2	2.20	0.73
1:U:112:THR:O	1:U:251:ASN:ND2	2.20	0.73
1:h:112:THR:O	1:h:251:ASN:ND2	2.20	0.73
1:p:249:VAL:HG22	1:p:474:LEU:HD11	1.68	0.73
1:w:280:ASN:ND2	1:w:416:ASN:O	2.20	0.73
1:M:112:THR:O	1:M:251:ASN:ND2	2.20	0.73
1:V:249:VAL:HG22	1:V:474:LEU:HD11	1.68	0.73
1:Y:112:THR:O	1:Y:251:ASN:ND2	2.20	0.73
1:E:280:ASN:ND2	1:E:416:ASN:O	2.20	0.73
1:I:249:VAL:HG22	1:I:474:LEU:HD11	1.68	0.73
1:s:112:THR:O	1:s:251:ASN:ND2	2.20	0.73
1:1:112:THR:O	1:1:251:ASN:ND2	2.20	0.73
1:6:112:THR:O	1:6:251:ASN:ND2	2.20	0.73
1:7:112:THR:O	1:7:251:ASN:ND2	2.20	0.73
1:q:112:THR:O	1:q:251:ASN:ND2	2.20	0.73
1:R:112:THR:O	1:R:251:ASN:ND2	2.20	0.73
1:W:112:THR:O	1:W:251:ASN:ND2	2.20	0.73
1:u:112:THR:O	1:u:251:ASN:ND2	2.20	0.73
1:u:249:VAL:HG22	1:u:474:LEU:HD11	1.68	0.73
1:4:112:THR:O	1:4:251:ASN:ND2	2.20	0.73
1:K:112:THR:O	1:K:251:ASN:ND2	2.20	0.73
1:r:112:THR:O	1:r:251:ASN:ND2	2.20	0.73
1:F:112:THR:O	1:F:251:ASN:ND2	2.20	0.73
1:I:112:THR:O	1:I:251:ASN:ND2	2.20	0.73
1:S:112:THR:O	1:S:251:ASN:ND2	2.20	0.73
1:d:112:THR:O	1:d:251:ASN:ND2	2.20	0.73
1:y:112:THR:O	1:y:251:ASN:ND2	2.20	0.73
1:J:112:THR:O	1:J:251:ASN:ND2	2.20	0.73
1:P:112:THR:O	1:P:251:ASN:ND2	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:112:THR:O	1:Z:251:ASN:ND2	2.20	0.73
1:2:112:THR:O	1:2:251:ASN:ND2	2.20	0.73
1:j:112:THR:O	1:j:251:ASN:ND2	2.20	0.73
1:n:112:THR:O	1:n:251:ASN:ND2	2.20	0.73
1:8:112:THR:O	1:8:251:ASN:ND2	2.20	0.73
1:3:112:THR:O	1:3:251:ASN:ND2	2.20	0.73
1:m:112:THR:O	1:m:251:ASN:ND2	2.20	0.72
1:m:249:VAL:HG22	1:m:474:LEU:HD11	1.68	0.72
1:a:112:THR:O	1:a:251:ASN:ND2	2.20	0.72
1:g:112:THR:O	1:g:251:ASN:ND2	2.20	0.72
1:T:112:THR:O	1:T:251:ASN:ND2	2.20	0.72
1:x:112:THR:O	1:x:251:ASN:ND2	2.20	0.72
1:A:112:THR:O	1:A:251:ASN:ND2	2.20	0.72
1:C:112:THR:O	1:C:251:ASN:ND2	2.20	0.72
1:D:112:THR:O	1:D:251:ASN:ND2	2.20	0.72
1:T:249:VAL:HG22	1:T:474:LEU:HD11	1.68	0.72
1:k:112:THR:O	1:k:251:ASN:ND2	2.20	0.72
1:w:112:THR:O	1:w:251:ASN:ND2	2.20	0.72
1:Q:112:THR:O	1:Q:251:ASN:ND2	2.20	0.72
1:v:112:THR:O	1:v:251:ASN:ND2	2.20	0.72
1:E:112:THR:O	1:E:251:ASN:ND2	2.20	0.72
1:g:149:THR:OG1	1:k:146:ASN:ND2	2.23	0.72
1:l:112:THR:O	1:l:251:ASN:ND2	2.20	0.72
1:O:112:THR:O	1:O:251:ASN:ND2	2.20	0.72
1:Q:275:ARG:HH22	1:Q:414:ILE:HD11	1.46	0.72
1:k:149:THR:OG1	1:w:146:ASN:ND2	2.23	0.72
1:D:149:THR:OG1	1:E:146:ASN:ND2	2.23	0.71
1:O:149:THR:OG1	1:d:146:ASN:ND2	2.24	0.71
1:Z:149:THR:OG1	1:a:146:ASN:ND2	2.24	0.71
1:l:149:THR:OG1	1:n:146:ASN:ND2	2.24	0.71
1:3:146:ASN:ND2	1:8:149:THR:OG1	2.24	0.71
1:T:146:ASN:ND2	1:U:149:THR:OG1	2.24	0.71
1:l:275:ARG:HH22	1:l:414:ILE:HD11	1.46	0.71
1:m:146:ASN:ND2	1:s:149:THR:OG1	2.24	0.71
1:A:146:ASN:ND2	1:E:149:THR:OG1	2.24	0.71
1:H:149:THR:OG1	1:Z:146:ASN:ND2	2.23	0.71
1:x:275:ARG:HH22	1:x:414:ILE:HD11	1.46	0.71
1:C:149:THR:OG1	1:D:146:ASN:ND2	2.24	0.71
1:K:149:THR:OG1	1:7:146:ASN:ND2	2.24	0.71
1:Y:146:ASN:ND2	1:4:149:THR:OG1	2.24	0.71
1:j:149:THR:OG1	1:l:146:ASN:ND2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:149:THR:OG1	1:5:146:ASN:ND2	2.23	0.71
1:v:146:ASN:ND2	1:w:149:THR:OG1	2.24	0.71
1:5:149:THR:OG1	1:8:146:ASN:ND2	2.23	0.71
1:H:146:ASN:ND2	1:I:149:THR:OG1	2.23	0.71
1:M:146:ASN:ND2	1:N:149:THR:OG1	2.23	0.71
1:O:146:ASN:ND2	1:P:149:THR:OG1	2.23	0.71
1:X:146:ASN:ND2	1:Y:149:THR:OG1	2.23	0.71
1:X:149:THR:OG1	1:f:146:ASN:ND2	2.24	0.71
1:K:146:ASN:ND2	1:L:149:THR:OG1	2.24	0.71
1:L:146:ASN:ND2	1:b:149:THR:OG1	2.24	0.71
1:O:275:ARG:HH22	1:O:414:ILE:HD11	1.46	0.71
1:S:275:ARG:HH22	1:S:414:ILE:HD11	1.46	0.71
1:b:146:ASN:ND2	1:o:149:THR:OG1	2.24	0.71
1:f:149:THR:OG1	1:z:146:ASN:ND2	2.24	0.71
1:h:146:ASN:ND2	1:i:149:THR:OG1	2.24	0.71
1:o:146:ASN:ND2	1:7:149:THR:OG1	2.23	0.71
1:F:149:THR:OG1	1:R:146:ASN:ND2	2.24	0.70
1:P:146:ASN:ND2	1:Q:149:THR:OG1	2.23	0.70
1:r:149:THR:OG1	1:x:146:ASN:ND2	2.24	0.70
1:N:146:ASN:ND2	1:m:149:THR:OG1	2.24	0.70
1:R:149:THR:OG1	1:V:146:ASN:ND2	2.24	0.70
1:T:149:THR:OG1	1:i:146:ASN:ND2	2.24	0.70
1:p:146:ASN:ND2	1:q:149:THR:OG1	2.24	0.70
1:q:146:ASN:ND2	1:y:149:THR:OG1	2.24	0.70
1:z:149:THR:OG1	1:4:146:ASN:ND2	2.24	0.70
1:J:146:ASN:ND2	1:a:149:THR:OG1	2.24	0.70
1:e:146:ASN:ND2	1:h:149:THR:OG1	2.23	0.70
1:M:149:THR:OG1	1:c:146:ASN:ND2	2.24	0.70
1:Z:275:ARG:NH2	1:Z:414:ILE:HD12	2.05	0.70
1:2:146:ASN:ND2	1:3:149:THR:OG1	2.24	0.70
1:F:146:ASN:ND2	1:G:149:THR:OG1	2.24	0.70
1:I:311:GLN:HE21	1:I:313:ALA:HB2	1.57	0.70
1:u:311:GLN:HE21	1:u:313:ALA:HB2	1.57	0.70
1:M:311:GLN:HE21	1:M:313:ALA:HB2	1.57	0.70
1:W:311:GLN:HE21	1:W:313:ALA:HB2	1.57	0.70
1:j:146:ASN:ND2	1:x:149:THR:OG1	2.24	0.70
1:r:275:ARG:HH22	1:r:414:ILE:HD11	1.46	0.70
1:t:146:ASN:ND2	1:6:149:THR:OG1	2.23	0.70
1:v:149:THR:OG1	1:1:146:ASN:ND2	2.24	0.70
1:6:311:GLN:HE21	1:6:313:ALA:HB2	1.57	0.70
1:A:149:THR:OG1	1:B:146:ASN:ND2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:146:ASN:ND2	1:W:149:THR:OG1	2.23	0.70
1:Q:275:ARG:NH2	1:Q:414:ILE:HD12	2.05	0.70
1:a:311:GLN:HE21	1:a:313:ALA:HB2	1.57	0.70
1:e:311:GLN:HE21	1:e:313:ALA:HB2	1.57	0.70
1:f:311:GLN:HE21	1:f:313:ALA:HB2	1.57	0.70
1:h:311:GLN:HE21	1:h:313:ALA:HB2	1.57	0.70
1:t:149:THR:OG1	1:y:146:ASN:ND2	2.24	0.70
1:3:311:GLN:HE21	1:3:313:ALA:HB2	1.57	0.70
1:B:149:THR:OG1	1:C:146:ASN:ND2	2.24	0.70
1:b:311:GLN:HE21	1:b:313:ALA:HB2	1.57	0.70
1:c:311:GLN:HE21	1:c:313:ALA:HB2	1.57	0.70
1:n:149:THR:OG1	1:r:146:ASN:ND2	2.24	0.70
1:x:275:ARG:NH2	1:x:414:ILE:HD12	2.05	0.70
1:Q:146:ASN:ND2	1:S:149:THR:OG1	2.25	0.70
1:S:146:ASN:ND2	1:d:149:THR:OG1	2.24	0.70
1:U:146:ASN:ND2	1:e:149:THR:OG1	2.24	0.70
1:E:275:ARG:NH2	1:E:414:ILE:HD12	2.05	0.70
1:R:311:GLN:HE21	1:R:313:ALA:HB2	1.57	0.70
1:c:149:THR:OG1	1:s:146:ASN:ND2	2.24	0.70
1:g:311:GLN:HE21	1:g:313:ALA:HB2	1.57	0.70
1:j:275:ARG:NH2	1:j:414:ILE:HD12	2.05	0.70
1:V:311:GLN:HE21	1:V:313:ALA:HB2	1.57	0.69
1:q:311:GLN:HE21	1:q:313:ALA:HB2	1.57	0.69
1:w:275:ARG:NH2	1:w:414:ILE:HD12	2.05	0.69
1:C:311:GLN:HE21	1:C:313:ALA:HB2	1.57	0.69
1:Q:311:GLN:HE21	1:Q:313:ALA:HB2	1.57	0.69
1:V:149:THR:OG1	1:W:146:ASN:ND2	2.24	0.69
1:p:149:THR:OG1	1:6:146:ASN:ND2	2.24	0.69
1:p:275:ARG:HH22	1:p:414:ILE:HD11	1.46	0.69
1:p:311:GLN:HE21	1:p:313:ALA:HB2	1.57	0.69
1:x:311:GLN:HE21	1:x:313:ALA:HB2	1.57	0.69
1:I:275:ARG:NH2	1:I:414:ILE:HD12	2.05	0.69
1:P:275:ARG:NH2	1:P:414:ILE:HD12	2.05	0.69
1:k:311:GLN:HE21	1:k:313:ALA:HB2	1.57	0.69
1:q:275:ARG:NH2	1:q:414:ILE:HD12	2.05	0.69
1:u:275:ARG:NH2	1:u:414:ILE:HD12	2.05	0.69
1:D:311:GLN:HE21	1:D:313:ALA:HB2	1.57	0.69
1:o:311:GLN:HE21	1:o:313:ALA:HB2	1.57	0.69
1:u:146:ASN:ND2	1:2:149:THR:OG1	2.25	0.69
1:R:275:ARG:NH2	1:R:414:ILE:HD12	2.05	0.69
1:X:311:GLN:HE21	1:X:313:ALA:HB2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:311:GLN:HE21	1:i:313:ALA:HB2	1.57	0.69
1:I:146:ASN:ND2	1:J:149:THR:OG1	2.25	0.69
1:L:311:GLN:HE21	1:L:313:ALA:HB2	1.57	0.69
1:Y:311:GLN:HE21	1:Y:313:ALA:HB2	1.57	0.69
1:Z:311:GLN:HE21	1:Z:313:ALA:HB2	1.57	0.69
1:l:311:GLN:HE21	1:l:313:ALA:HB2	1.57	0.69
1:O:311:GLN:HE21	1:O:313:ALA:HB2	1.57	0.69
1:n:275:ARG:NH2	1:n:414:ILE:HD12	2.05	0.69
1:8:311:GLN:HE21	1:8:313:ALA:HB2	1.57	0.69
1:N:311:GLN:HE21	1:N:313:ALA:HB2	1.57	0.69
1:T:311:GLN:HE21	1:T:313:ALA:HB2	1.57	0.69
1:d:275:ARG:NH2	1:d:414:ILE:HD12	2.05	0.69
1:d:311:GLN:HE21	1:d:313:ALA:HB2	1.57	0.69
1:m:311:GLN:HE21	1:m:313:ALA:HB2	1.57	0.69
1:n:311:GLN:HE21	1:n:313:ALA:HB2	1.57	0.69
1:z:311:GLN:HE21	1:z:313:ALA:HB2	1.57	0.69
1:7:311:GLN:HE21	1:7:313:ALA:HB2	1.57	0.69
1:E:311:GLN:HE21	1:E:313:ALA:HB2	1.57	0.69
1:K:311:GLN:HE21	1:K:313:ALA:HB2	1.57	0.69
1:m:275:ARG:NH2	1:m:414:ILE:HD12	2.05	0.69
1:4:311:GLN:HE21	1:4:313:ALA:HB2	1.57	0.69
1:G:311:GLN:HE21	1:G:313:ALA:HB2	1.57	0.69
1:g:146:ASN:ND2	1:1:149:THR:OG1	2.25	0.69
1:j:311:GLN:HE21	1:j:313:ALA:HB2	1.57	0.68
1:s:311:GLN:HE21	1:s:313:ALA:HB2	1.57	0.68
1:F:311:GLN:HE21	1:F:313:ALA:HB2	1.57	0.68
1:J:311:GLN:HE21	1:J:313:ALA:HB2	1.57	0.68
1:T:275:ARG:NH2	1:T:414:ILE:HD12	2.05	0.68
1:w:311:GLN:HE21	1:w:313:ALA:HB2	1.57	0.68
1:y:311:GLN:HE21	1:y:313:ALA:HB2	1.57	0.68
1:1:311:GLN:HE21	1:1:313:ALA:HB2	1.57	0.68
1:H:311:GLN:HE21	1:H:313:ALA:HB2	1.57	0.68
1:P:311:GLN:HE21	1:P:313:ALA:HB2	1.57	0.68
1:t:311:GLN:HE21	1:t:313:ALA:HB2	1.57	0.68
1:1:275:ARG:NH2	1:1:414:ILE:HD12	2.05	0.68
1:U:311:GLN:HE21	1:U:313:ALA:HB2	1.57	0.68
1:Y:275:ARG:NH2	1:Y:414:ILE:HD12	2.05	0.68
1:B:275:ARG:NH2	1:B:414:ILE:HD12	2.05	0.68
1:B:311:GLN:HE21	1:B:313:ALA:HB2	1.57	0.68
1:2:311:GLN:HE21	1:2:313:ALA:HB2	1.57	0.68
1:W:275:ARG:NH2	1:W:414:ILE:HD12	2.05	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:311:GLN:HE21	1:r:313:ALA:HB2	1.57	0.68
1:5:311:GLN:HE21	1:5:313:ALA:HB2	1.57	0.68
1:7:275:ARG:NH2	1:7:414:ILE:HD12	2.05	0.68
1:v:311:GLN:HE21	1:v:313:ALA:HB2	1.57	0.68
1:A:311:GLN:HE21	1:A:313:ALA:HB2	1.57	0.68
1:D:392:ARG:HH21	1:D:446:THR:HG21	1.59	0.68
1:O:392:ARG:HH21	1:O:446:THR:HG21	1.59	0.68
1:S:311:GLN:HE21	1:S:313:ALA:HB2	1.57	0.68
1:c:392:ARG:HH21	1:c:446:THR:HG21	1.59	0.68
1:e:392:ARG:HH21	1:e:446:THR:HG21	1.59	0.68
1:k:392:ARG:HH21	1:k:446:THR:HG21	1.59	0.68
1:l:392:ARG:HH21	1:l:446:THR:HG21	1.59	0.68
1:3:275:ARG:NH2	1:3:414:ILE:HD12	2.05	0.68
1:6:275:ARG:NH2	1:6:414:ILE:HD12	2.05	0.68
1:a:275:ARG:NH2	1:a:414:ILE:HD12	2.05	0.68
1:n:392:ARG:HH21	1:n:446:THR:HG21	1.59	0.68
1:r:392:ARG:HH21	1:r:446:THR:HG21	1.59	0.68
1:v:392:ARG:HH21	1:v:446:THR:HG21	1.59	0.68
1:z:275:ARG:NH2	1:z:414:ILE:HD12	2.05	0.68
1:A:392:ARG:HH21	1:A:446:THR:HG21	1.59	0.67
1:S:392:ARG:HH21	1:S:446:THR:HG21	1.59	0.67
1:d:392:ARG:HH21	1:d:446:THR:HG21	1.59	0.67
1:L:275:ARG:NH2	1:L:414:ILE:HD12	2.05	0.67
1:U:275:ARG:NH2	1:U:414:ILE:HD12	2.05	0.67
1:F:392:ARG:HH21	1:F:446:THR:HG21	1.59	0.67
1:L:392:ARG:HH21	1:L:446:THR:HG21	1.59	0.67
1:h:392:ARG:HH21	1:h:446:THR:HG21	1.59	0.67
1:o:275:ARG:NH2	1:o:414:ILE:HD12	2.05	0.67
1:s:275:ARG:NH2	1:s:414:ILE:HD12	2.05	0.67
1:y:392:ARG:HH21	1:y:446:THR:HG21	1.59	0.67
1:z:392:ARG:HH21	1:z:446:THR:HG21	1.59	0.67
1:X:275:ARG:NH2	1:X:414:ILE:HD12	2.05	0.67
1:p:392:ARG:HH21	1:p:446:THR:HG21	1.59	0.67
1:M:392:ARG:HH21	1:M:446:THR:HG21	1.59	0.67
1:N:392:ARG:HH21	1:N:446:THR:HG21	1.59	0.67
1:Z:392:ARG:HH21	1:Z:446:THR:HG21	1.59	0.67
1:i:275:ARG:NH2	1:i:414:ILE:HD12	2.05	0.67
1:3:392:ARG:HH21	1:3:446:THR:HG21	1.59	0.67
1:G:392:ARG:HH21	1:G:446:THR:HG21	1.59	0.67
1:I:392:ARG:HH21	1:I:446:THR:HG21	1.59	0.67
1:V:392:ARG:HH21	1:V:446:THR:HG21	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:392:ARG:HH21	1:i:446:THR:HG21	1.59	0.67
1:K:533:ASP:OD1	1:K:534:VAL:N	2.28	0.67
1:N:275:ARG:NH2	1:N:414:ILE:HD12	2.05	0.67
1:P:392:ARG:HH21	1:P:446:THR:HG21	1.59	0.67
1:Q:392:ARG:HH21	1:Q:446:THR:HG21	1.59	0.67
1:X:533:ASP:OD1	1:X:534:VAL:N	2.28	0.67
1:a:392:ARG:HH21	1:a:446:THR:HG21	1.59	0.67
1:o:533:ASP:OD1	1:o:534:VAL:N	2.28	0.67
1:l:392:ARG:HH21	1:l:446:THR:HG21	1.59	0.67
1:4:533:ASP:OD1	1:4:534:VAL:N	2.28	0.67
1:G:275:ARG:NH2	1:G:414:ILE:HD12	2.05	0.67
1:G:533:ASP:OD1	1:G:534:VAL:N	2.28	0.67
1:T:392:ARG:HH21	1:T:446:THR:HG21	1.59	0.67
1:g:275:ARG:NH2	1:g:414:ILE:HD12	2.05	0.67
1:t:392:ARG:HH21	1:t:446:THR:HG21	1.59	0.67
1:t:533:ASP:OD1	1:t:534:VAL:N	2.28	0.67
1:u:392:ARG:HH21	1:u:446:THR:HG21	1.59	0.67
1:x:392:ARG:HH21	1:x:446:THR:HG21	1.59	0.67
1:4:392:ARG:HH21	1:4:446:THR:HG21	1.59	0.67
1:8:392:ARG:HH21	1:8:446:THR:HG21	1.59	0.67
1:E:533:ASP:OD1	1:E:534:VAL:N	2.28	0.67
1:F:533:ASP:OD1	1:F:534:VAL:N	2.28	0.67
1:I:533:ASP:OD1	1:I:534:VAL:N	2.28	0.67
1:K:392:ARG:HH21	1:K:446:THR:HG21	1.59	0.67
1:R:533:ASP:OD1	1:R:534:VAL:N	2.28	0.67
1:W:392:ARG:HH21	1:W:446:THR:HG21	1.59	0.67
1:j:392:ARG:HH21	1:j:446:THR:HG21	1.59	0.67
1:q:533:ASP:OD1	1:q:534:VAL:N	2.28	0.67
1:w:533:ASP:OD1	1:w:534:VAL:N	2.28	0.67
1:B:392:ARG:HH21	1:B:446:THR:HG21	1.59	0.66
1:H:392:ARG:HH21	1:H:446:THR:HG21	1.59	0.66
1:Z:533:ASP:OD1	1:Z:534:VAL:N	2.28	0.66
1:d:533:ASP:OD1	1:d:534:VAL:N	2.28	0.66
1:m:392:ARG:HH21	1:m:446:THR:HG21	1.59	0.66
1:n:533:ASP:OD1	1:n:534:VAL:N	2.28	0.66
1:u:533:ASP:OD1	1:u:534:VAL:N	2.28	0.66
1:w:392:ARG:HH21	1:w:446:THR:HG21	1.59	0.66
1:y:533:ASP:OD1	1:y:534:VAL:N	2.28	0.66
1:5:392:ARG:HH21	1:5:446:THR:HG21	1.59	0.66
1:5:533:ASP:OD1	1:5:534:VAL:N	2.28	0.66
1:C:275:ARG:NH2	1:C:414:ILE:HD12	2.05	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:533:ASP:OD1	1:H:534:VAL:N	2.28	0.66
1:J:533:ASP:OD1	1:J:534:VAL:N	2.28	0.66
1:a:533:ASP:OD1	1:a:534:VAL:N	2.28	0.66
1:h:533:ASP:OD1	1:h:534:VAL:N	2.28	0.66
1:s:392:ARG:HH21	1:s:446:THR:HG21	1.59	0.66
1:t:275:ARG:NH2	1:t:414:ILE:HD12	2.05	0.66
1:2:533:ASP:OD1	1:2:534:VAL:N	2.28	0.66
1:3:533:ASP:OD1	1:3:534:VAL:N	2.28	0.66
1:5:275:ARG:NH2	1:5:414:ILE:HD12	2.05	0.66
1:6:392:ARG:HH21	1:6:446:THR:HG21	1.59	0.66
1:8:533:ASP:OD1	1:8:534:VAL:N	2.28	0.66
1:D:275:ARG:NH2	1:D:414:ILE:HD12	2.05	0.66
1:E:392:ARG:HH21	1:E:446:THR:HG21	1.59	0.66
1:L:533:ASP:OD1	1:L:534:VAL:N	2.28	0.66
1:M:533:ASP:OD1	1:M:534:VAL:N	2.28	0.66
1:U:392:ARG:HH21	1:U:446:THR:HG21	1.59	0.66
1:k:275:ARG:NH2	1:k:414:ILE:HD12	2.05	0.66
1:k:533:ASP:OD1	1:k:534:VAL:N	2.28	0.66
1:z:533:ASP:OD1	1:z:534:VAL:N	2.28	0.66
1:D:533:ASP:OD1	1:D:534:VAL:N	2.28	0.66
1:N:533:ASP:OD1	1:N:534:VAL:N	2.28	0.66
1:O:533:ASP:OD1	1:O:534:VAL:N	2.28	0.66
1:U:533:ASP:OD1	1:U:534:VAL:N	2.28	0.66
1:W:533:ASP:OD1	1:W:534:VAL:N	2.28	0.66
1:b:533:ASP:OD1	1:b:534:VAL:N	2.28	0.66
1:i:533:ASP:OD1	1:i:534:VAL:N	2.28	0.66
1:s:533:ASP:OD1	1:s:534:VAL:N	2.28	0.66
1:S:533:ASP:OD1	1:S:534:VAL:N	2.28	0.66
1:V:275:ARG:NH2	1:V:414:ILE:HD12	2.05	0.66
1:f:533:ASP:OD1	1:f:534:VAL:N	2.28	0.66
1:l:533:ASP:OD1	1:l:534:VAL:N	2.28	0.66
1:p:275:ARG:NH2	1:p:414:ILE:HD12	2.05	0.66
1:6:533:ASP:OD1	1:6:534:VAL:N	2.28	0.66
1:7:392:ARG:HH21	1:7:446:THR:HG21	1.59	0.66
1:H:275:ARG:NH2	1:H:414:ILE:HD12	2.05	0.66
1:P:533:ASP:OD1	1:P:534:VAL:N	2.28	0.66
1:V:533:ASP:OD1	1:V:534:VAL:N	2.28	0.66
1:g:392:ARG:HH21	1:g:446:THR:HG21	1.59	0.66
1:p:533:ASP:OD1	1:p:534:VAL:N	2.28	0.66
1:r:533:ASP:OD1	1:r:534:VAL:N	2.28	0.66
1:J:392:ARG:HH21	1:J:446:THR:HG21	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:392:ARG:HH21	1:Y:446:THR:HG21	1.59	0.66
1:j:533:ASP:OD1	1:j:534:VAL:N	2.28	0.66
1:x:533:ASP:OD1	1:x:534:VAL:N	2.28	0.66
1:C:392:ARG:HH21	1:C:446:THR:HG21	1.59	0.66
1:R:392:ARG:HH21	1:R:446:THR:HG21	1.59	0.66
1:T:533:ASP:OD1	1:T:534:VAL:N	2.28	0.66
1:q:392:ARG:HH21	1:q:446:THR:HG21	1.59	0.66
1:Q:533:ASP:OD1	1:Q:534:VAL:N	2.28	0.66
1:m:533:ASP:OD1	1:m:534:VAL:N	2.28	0.66
1:f:392:ARG:HH21	1:f:446:THR:HG21	1.59	0.66
1:2:392:ARG:HH21	1:2:446:THR:HG21	1.59	0.66
1:S:489:LYS:HE3	1:S:501:TYR:HB3	1.79	0.65
1:7:533:ASP:OD1	1:7:534:VAL:N	2.28	0.65
1:C:533:ASP:OD1	1:C:534:VAL:N	2.28	0.65
1:D:489:LYS:HE3	1:D:501:TYR:HB3	1.79	0.65
1:J:489:LYS:HE3	1:J:501:TYR:HB3	1.79	0.65
1:c:533:ASP:OD1	1:c:534:VAL:N	2.28	0.65
1:e:533:ASP:OD1	1:e:534:VAL:N	2.28	0.65
1:f:489:LYS:HE3	1:f:501:TYR:HB3	1.79	0.65
1:g:533:ASP:OD1	1:g:534:VAL:N	2.28	0.65
1:k:489:LYS:HE3	1:k:501:TYR:HB3	1.79	0.65
1:r:489:LYS:HE3	1:r:501:TYR:HB3	1.79	0.65
1:2:489:LYS:HE3	1:2:501:TYR:HB3	1.79	0.65
1:W:489:LYS:HE3	1:W:501:TYR:HB3	1.79	0.65
1:Y:533:ASP:OD1	1:Y:534:VAL:N	2.28	0.65
1:b:392:ARG:HH21	1:b:446:THR:HG21	1.59	0.65
1:b:489:LYS:HE3	1:b:501:TYR:HB3	1.79	0.65
1:6:489:LYS:HE3	1:6:501:TYR:HB3	1.79	0.65
1:A:533:ASP:OD1	1:A:534:VAL:N	2.28	0.65
1:B:533:ASP:OD1	1:B:534:VAL:N	2.28	0.65
1:E:407:GLN:HE21	1:Q:321:GLY:H	1.45	0.65
1:G:489:LYS:HE3	1:G:501:TYR:HB3	1.79	0.65
1:X:392:ARG:HH21	1:X:446:THR:HG21	1.59	0.65
1:a:489:LYS:HE3	1:a:501:TYR:HB3	1.79	0.65
1:l:275:ARG:NH2	1:l:414:ILE:HD12	2.05	0.65
1:p:489:LYS:HE3	1:p:501:TYR:HB3	1.79	0.65
1:v:533:ASP:OD1	1:v:534:VAL:N	2.28	0.65
1:1:533:ASP:OD1	1:1:534:VAL:N	2.28	0.65
1:A:407:GLN:HE21	1:G:321:GLY:H	1.45	0.65
1:C:489:LYS:HE3	1:C:501:TYR:HB3	1.79	0.65
1:K:321:GLY:H	1:8:407:GLN:HE21	1.45	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:489:LYS:HE3	1:M:501:TYR:HB3	1.79	0.65
1:V:489:LYS:HE3	1:V:501:TYR:HB3	1.79	0.65
1:X:489:LYS:HE3	1:X:501:TYR:HB3	1.79	0.65
1:g:489:LYS:HE3	1:g:501:TYR:HB3	1.79	0.65
1:t:321:GLY:H	1:v:407:GLN:HE21	1.45	0.65
1:t:489:LYS:HE3	1:t:501:TYR:HB3	1.79	0.65
1:3:489:LYS:HE3	1:3:501:TYR:HB3	1.79	0.65
1:Z:407:GLN:HE21	1:4:321:GLY:H	1.45	0.65
1:c:489:LYS:HE3	1:c:501:TYR:HB3	1.79	0.65
1:e:489:LYS:HE3	1:e:501:TYR:HB3	1.79	0.65
1:h:275:ARG:NH2	1:h:414:ILE:HD12	2.05	0.65
1:h:489:LYS:HE3	1:h:501:TYR:HB3	1.79	0.65
1:o:392:ARG:HH21	1:o:446:THR:HG21	1.59	0.65
1:o:489:LYS:HE3	1:o:501:TYR:HB3	1.79	0.65
1:K:489:LYS:HE3	1:K:501:TYR:HB3	1.79	0.65
1:R:407:GLN:HE21	1:S:321:GLY:H	1.45	0.65
1:w:407:GLN:HE21	1:x:321:GLY:H	1.45	0.65
1:A:321:GLY:H	1:I:407:GLN:HE21	1.44	0.65
1:S:407:GLN:HE21	1:U:321:GLY:H	1.45	0.65
1:l:489:LYS:HE3	1:l:501:TYR:HB3	1.79	0.65
1:q:407:GLN:HE21	1:r:321:GLY:H	1.45	0.65
1:r:407:GLN:HE21	1:s:321:GLY:H	1.45	0.65
1:v:275:ARG:NH2	1:v:414:ILE:HD12	2.05	0.65
1:4:489:LYS:HE3	1:4:501:TYR:HB3	1.79	0.65
1:O:275:ARG:NH2	1:O:414:ILE:HD12	2.05	0.65
1:O:321:GLY:H	1:n:407:GLN:HE21	1.45	0.65
1:O:489:LYS:HE3	1:O:501:TYR:HB3	1.79	0.65
1:P:489:LYS:HE3	1:P:501:TYR:HB3	1.79	0.65
1:T:321:GLY:H	1:l:407:GLN:HE21	1.45	0.65
1:j:489:LYS:HE3	1:j:501:TYR:HB3	1.79	0.65
1:u:407:GLN:HE21	1:v:321:GLY:H	1.44	0.65
1:H:321:GLY:H	1:Y:407:GLN:HE21	1.45	0.65
1:M:275:ARG:NH2	1:M:414:ILE:HD12	2.05	0.65
1:d:407:GLN:HE21	1:l:321:GLY:H	1.45	0.65
1:L:489:LYS:HE3	1:L:501:TYR:HB3	1.79	0.64
1:O:407:GLN:HE21	1:m:321:GLY:H	1.45	0.64
1:q:489:LYS:HE3	1:q:501:TYR:HB3	1.78	0.64
1:z:489:LYS:HE3	1:z:501:TYR:HB3	1.79	0.64
1:6:407:GLN:HE21	1:7:321:GLY:H	1.45	0.64
1:A:275:ARG:NH2	1:A:414:ILE:HD12	2.05	0.64
1:G:407:GLN:HE21	1:I:321:GLY:H	1.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:489:LYS:HE3	1:R:501:TYR:HB3	1.79	0.64
1:W:407:GLN:HE21	1:Y:321:GLY:H	1.45	0.64
1:5:321:GLY:H	1:7:407:GLN:HE21	1.45	0.64
1:F:321:GLY:H	1:Q:407:GLN:HE21	1.44	0.64
1:H:489:LYS:HE3	1:H:501:TYR:HB3	1.79	0.64
1:T:407:GLN:HE21	1:d:321:GLY:H	1.45	0.64
1:X:321:GLY:H	1:e:407:GLN:HE21	1.45	0.64
1:t:407:GLN:HE21	1:u:321:GLY:H	1.45	0.64
1:B:407:GLN:HE21	1:J:321:GLY:H	1.45	0.64
1:B:489:LYS:HE3	1:B:501:TYR:HB3	1.79	0.64
1:F:489:LYS:HE3	1:F:501:TYR:HB3	1.79	0.64
1:Z:321:GLY:H	1:3:407:GLN:HE21	1.45	0.64
1:Z:489:LYS:HE3	1:Z:501:TYR:HB3	1.79	0.64
1:c:407:GLN:HE21	1:o:321:GLY:H	1.45	0.64
1:m:407:GLN:HE21	1:n:321:GLY:H	1.45	0.64
1:l:407:GLN:HE21	1:2:321:GLY:H	1.45	0.64
1:l:489:LYS:HE3	1:l:501:TYR:HB3	1.79	0.64
1:5:489:LYS:HE3	1:5:501:TYR:HB3	1.79	0.64
1:8:489:LYS:HE3	1:8:501:TYR:HB3	1.79	0.64
1:S:275:ARG:NH2	1:S:414:ILE:HD12	2.05	0.64
1:Y:489:LYS:HE3	1:Y:501:TYR:HB3	1.79	0.64
1:a:407:GLN:HE21	1:8:321:GLY:H	1.45	0.64
1:x:489:LYS:HE3	1:x:501:TYR:HB3	1.79	0.64
1:y:489:LYS:HE3	1:y:501:TYR:HB3	1.79	0.64
1:B:321:GLY:H	1:L:407:GLN:HE21	1.45	0.64
1:E:489:LYS:HE3	1:E:501:TYR:HB3	1.79	0.64
1:f:321:GLY:H	1:g:407:GLN:HE21	1.44	0.64
1:7:489:LYS:HE3	1:7:501:TYR:HB3	1.79	0.64
1:Q:489:LYS:HE3	1:Q:501:TYR:HB3	1.79	0.64
1:w:489:LYS:HE3	1:w:501:TYR:HB3	1.79	0.64
1:z:407:GLN:HE21	1:l:321:GLY:H	1.45	0.64
1:i:489:LYS:HE3	1:i:501:TYR:HB3	1.79	0.64
1:J:407:GLN:HE21	1:L:321:GLY:H	1.45	0.64
1:N:489:LYS:HE3	1:N:501:TYR:HB3	1.79	0.64
1:c:527:ARG:NH2	1:o:216:ALA:O	2.31	0.64
1:r:275:ARG:NH2	1:r:414:ILE:HD12	2.05	0.64
1:x:407:GLN:HE21	1:y:321:GLY:H	1.45	0.64
1:R:216:ALA:O	1:U:527:ARG:NH2	2.31	0.63
1:X:216:ALA:O	1:e:527:ARG:NH2	2.31	0.63
1:q:216:ALA:O	1:s:527:ARG:NH2	2.31	0.63
1:v:489:LYS:HE3	1:v:501:TYR:HB3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:321:GLY:H	1:2:407:GLN:HE21	1.45	0.63
1:A:489:LYS:HE3	1:A:501:TYR:HB3	1.79	0.63
1:B:216:ALA:O	1:L:527:ARG:NH2	2.31	0.63
1:C:407:GLN:HE21	1:b:321:GLY:H	1.45	0.63
1:H:216:ALA:O	1:Y:527:ARG:NH2	2.31	0.63
1:R:527:ARG:NH2	1:S:216:ALA:O	2.31	0.63
1:a:527:ARG:NH2	1:8:216:ALA:O	2.31	0.63
1:c:216:ALA:O	1:p:527:ARG:NH2	2.31	0.63
1:d:489:LYS:HE3	1:d:501:TYR:HB3	1.79	0.63
1:n:489:LYS:HE3	1:n:501:TYR:HB3	1.79	0.63
1:q:527:ARG:NH2	1:r:216:ALA:O	2.31	0.63
1:J:275:ARG:NH2	1:J:414:ILE:HD12	2.05	0.63
1:K:407:GLN:HE21	1:a:321:GLY:H	1.45	0.63
1:U:489:LYS:HE3	1:U:501:TYR:HB3	1.79	0.63
1:V:527:ARG:NH2	1:e:216:ALA:O	2.31	0.63
1:Z:216:ALA:O	1:3:527:ARG:NH2	2.31	0.63
1:u:489:LYS:HE3	1:u:501:TYR:HB3	1.79	0.63
1:z:527:ARG:NH2	1:1:216:ALA:O	2.31	0.63
1:3:321:GLY:H	1:4:407:GLN:HE21	1.45	0.63
1:5:216:ALA:O	1:7:527:ARG:NH2	2.31	0.63
1:5:527:ARG:NH2	1:6:216:ALA:O	2.31	0.63
1:8:275:ARG:NH2	1:8:414:ILE:HD12	2.05	0.63
1:H:527:ARG:NH2	1:W:216:ALA:O	2.31	0.63
1:S:527:ARG:NH2	1:U:216:ALA:O	2.31	0.63
1:g:209:GLU:OE2	1:h:538:ARG:NH2	2.31	0.63
1:m:489:LYS:HE3	1:m:501:TYR:HB3	1.79	0.63
1:s:489:LYS:HE3	1:s:501:TYR:HB3	1.78	0.63
1:t:216:ALA:O	1:v:527:ARG:NH2	2.31	0.63
1:2:275:ARG:NH2	1:2:414:ILE:HD12	2.05	0.63
1:A:527:ARG:NH2	1:G:216:ALA:O	2.31	0.63
1:C:216:ALA:O	1:M:527:ARG:NH2	2.31	0.63
1:D:407:GLN:HE21	1:N:321:GLY:H	1.45	0.63
1:I:489:LYS:HE3	1:I:501:TYR:HB3	1.79	0.63
1:T:489:LYS:HE3	1:T:501:TYR:HB3	1.79	0.63
1:V:407:GLN:HE21	1:e:321:GLY:H	1.45	0.63
1:i:321:GLY:H	1:k:407:GLN:HE21	1.45	0.63
1:C:321:GLY:H	1:M:407:GLN:HE21	1.45	0.63
1:E:321:GLY:H	1:F:407:GLN:HE21	1.45	0.63
1:V:216:ALA:O	1:X:527:ARG:NH2	2.31	0.63
1:j:527:ARG:NH2	1:k:216:ALA:O	2.31	0.63
1:o:527:ARG:NH2	1:p:216:ALA:O	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:527:ARG:NH2	1:s:216:ALA:O	2.31	0.63
1:D:216:ALA:O	1:P:527:ARG:NH2	2.31	0.63
1:F:216:ALA:O	1:Q:527:ARG:NH2	2.31	0.63
1:V:321:GLY:H	1:X:407:GLN:HE21	1.45	0.63
1:c:321:GLY:H	1:p:407:GLN:HE21	1.45	0.63
1:w:321:GLY:H	1:y:407:GLN:HE21	1.45	0.63
1:x:527:ARG:NH2	1:y:216:ALA:O	2.31	0.63
1:6:527:ARG:NH2	1:7:216:ALA:O	2.31	0.63
1:J:124:MET:SD	1:J:241:HIS:NE2	2.72	0.63
1:K:124:MET:SD	1:K:241:HIS:NE2	2.72	0.63
1:W:527:ARG:NH2	1:Y:216:ALA:O	2.31	0.63
1:2:124:MET:SD	1:2:241:HIS:NE2	2.72	0.63
1:4:124:MET:SD	1:4:241:HIS:NE2	2.72	0.63
1:U:124:MET:SD	1:U:241:HIS:NE2	2.72	0.63
1:a:124:MET:SD	1:a:241:HIS:NE2	2.72	0.63
1:s:124:MET:SD	1:s:241:HIS:NE2	2.72	0.63
1:3:124:MET:SD	1:3:241:HIS:NE2	2.72	0.63
1:R:321:GLY:H	1:U:407:GLN:HE21	1.45	0.62
1:c:124:MET:SD	1:c:241:HIS:NE2	2.72	0.62
1:e:124:MET:SD	1:e:241:HIS:NE2	2.72	0.62
1:o:407:GLN:HE21	1:p:321:GLY:H	1.45	0.62
1:w:216:ALA:O	1:y:527:ARG:NH2	2.31	0.62
1:C:527:ARG:NH2	1:b:216:ALA:O	2.31	0.62
1:E:216:ALA:O	1:F:527:ARG:NH2	2.31	0.62
1:E:527:ARG:NH2	1:Q:216:ALA:O	2.31	0.62
1:F:124:MET:SD	1:F:241:HIS:NE2	2.72	0.62
1:N:407:GLN:HE21	1:P:321:GLY:H	1.45	0.62
1:O:124:MET:SD	1:O:241:HIS:NE2	2.72	0.62
1:O:216:ALA:O	1:n:527:ARG:NH2	2.31	0.62
1:Y:124:MET:SD	1:Y:241:HIS:NE2	2.72	0.62
1:d:527:ARG:NH2	1:l:216:ALA:O	2.31	0.62
1:i:407:GLN:HE21	1:j:321:GLY:H	1.45	0.62
1:l:124:MET:SD	1:l:241:HIS:NE2	2.72	0.62
1:m:527:ARG:NH2	1:n:216:ALA:O	2.31	0.62
1:w:527:ARG:NH2	1:x:216:ALA:O	2.31	0.62
1:y:124:MET:SD	1:y:241:HIS:NE2	2.72	0.62
1:7:124:MET:SD	1:7:241:HIS:NE2	2.72	0.62
1:B:124:MET:SD	1:B:241:HIS:NE2	2.72	0.62
1:H:124:MET:SD	1:H:241:HIS:NE2	2.72	0.62
1:S:124:MET:SD	1:S:241:HIS:NE2	2.72	0.62
1:q:321:GLY:H	1:s:407:GLN:HE21	1.45	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:124:MET:SD	1:w:241:HIS:NE2	2.72	0.62
1:l:124:MET:SD	1:l:241:HIS:NE2	2.72	0.62
1:5:124:MET:SD	1:5:241:HIS:NE2	2.72	0.62
1:A:216:ALA:O	1:I:527:ARG:NH2	2.31	0.62
1:B:527:ARG:NH2	1:J:216:ALA:O	2.31	0.62
1:E:124:MET:SD	1:E:241:HIS:NE2	2.72	0.62
1:L:124:MET:SD	1:L:241:HIS:NE2	2.72	0.62
1:R:124:MET:SD	1:R:241:HIS:NE2	2.72	0.62
1:T:527:ARG:NH2	1:d:216:ALA:O	2.31	0.62
1:X:124:MET:SD	1:X:241:HIS:NE2	2.72	0.62
1:d:124:MET:SD	1:d:241:HIS:NE2	2.72	0.62
1:n:124:MET:SD	1:n:241:HIS:NE2	2.72	0.62
1:o:124:MET:SD	1:o:241:HIS:NE2	2.72	0.62
1:q:124:MET:SD	1:q:241:HIS:NE2	2.72	0.62
1:u:527:ARG:NH2	1:v:216:ALA:O	2.31	0.62
1:v:124:MET:SD	1:v:241:HIS:NE2	2.72	0.62
1:z:124:MET:SD	1:z:241:HIS:NE2	2.72	0.62
1:z:216:ALA:O	1:2:527:ARG:NH2	2.31	0.62
1:6:124:MET:SD	1:6:241:HIS:NE2	2.72	0.62
1:A:124:MET:SD	1:A:241:HIS:NE2	2.72	0.62
1:C:124:MET:SD	1:C:241:HIS:NE2	2.72	0.62
1:J:527:ARG:NH2	1:L:216:ALA:O	2.31	0.62
1:M:124:MET:SD	1:M:241:HIS:NE2	2.72	0.62
1:M:321:GLY:H	1:b:407:GLN:HE21	1.45	0.62
1:T:124:MET:SD	1:T:241:HIS:NE2	2.72	0.62
1:b:275:ARG:NH2	1:b:414:ILE:HD12	2.05	0.62
1:f:209:GLU:OE2	1:g:538:ARG:NH2	2.32	0.62
1:f:407:GLN:HE21	1:h:321:GLY:H	1.45	0.62
1:g:124:MET:SD	1:g:241:HIS:NE2	2.72	0.62
1:g:216:ALA:O	1:h:527:ARG:NH2	2.32	0.62
1:h:124:MET:SD	1:h:241:HIS:NE2	2.72	0.62
1:r:124:MET:SD	1:r:241:HIS:NE2	2.72	0.62
1:t:124:MET:SD	1:t:241:HIS:NE2	2.72	0.62
1:4:275:ARG:NH2	1:4:414:ILE:HD12	2.05	0.62
1:G:124:MET:SD	1:G:241:HIS:NE2	2.72	0.62
1:W:124:MET:SD	1:W:241:HIS:NE2	2.72	0.62
1:Z:124:MET:SD	1:Z:241:HIS:NE2	2.72	0.62
1:g:321:GLY:H	1:h:407:GLN:HE21	1.46	0.62
1:t:527:ARG:NH2	1:u:216:ALA:O	2.31	0.62
1:l:527:ARG:NH2	1:2:216:ALA:O	2.31	0.62
1:G:527:ARG:NH2	1:I:216:ALA:O	2.31	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:216:ALA:O	1:b:527:ARG:NH2	2.31	0.62
1:N:124:MET:SD	1:N:241:HIS:NE2	2.72	0.62
1:P:124:MET:SD	1:P:241:HIS:NE2	2.72	0.62
1:V:124:MET:SD	1:V:241:HIS:NE2	2.72	0.62
1:f:527:ARG:NH2	1:h:216:ALA:O	2.31	0.62
1:j:124:MET:SD	1:j:241:HIS:NE2	2.72	0.62
1:j:407:GLN:HE21	1:k:321:GLY:H	1.45	0.62
1:m:124:MET:SD	1:m:241:HIS:NE2	2.72	0.62
1:p:124:MET:SD	1:p:241:HIS:NE2	2.72	0.62
1:5:407:GLN:HE21	1:6:321:GLY:H	1.45	0.62
1:8:124:MET:SD	1:8:241:HIS:NE2	2.72	0.62
1:H:407:GLN:HE21	1:W:321:GLY:H	1.45	0.62
1:K:275:ARG:NH2	1:K:414:ILE:HD12	2.05	0.62
1:Q:124:MET:SD	1:Q:241:HIS:NE2	2.72	0.62
1:Z:527:ARG:NH2	1:4:216:ALA:O	2.31	0.62
1:b:124:MET:SD	1:b:241:HIS:NE2	2.72	0.62
1:i:124:MET:SD	1:i:241:HIS:NE2	2.72	0.62
1:i:527:ARG:NH2	1:j:216:ALA:O	2.31	0.62
1:o:275:ARG:HH22	1:o:414:ILE:HD11	1.46	0.62
1:x:124:MET:SD	1:x:241:HIS:NE2	2.72	0.62
1:I:124:MET:SD	1:I:241:HIS:NE2	2.72	0.62
1:K:527:ARG:NH2	1:a:216:ALA:O	2.31	0.62
1:N:527:ARG:NH2	1:P:216:ALA:O	2.31	0.62
1:3:216:ALA:O	1:4:527:ARG:NH2	2.31	0.62
1:D:124:MET:SD	1:D:241:HIS:NE2	2.72	0.62
1:D:321:GLY:H	1:P:407:GLN:HE21	1.45	0.62
1:E:538:ARG:NH2	1:Q:209:GLU:OE2	2.33	0.62
1:K:216:ALA:O	1:8:527:ARG:NH2	2.31	0.62
1:X:275:ARG:HH22	1:X:414:ILE:HD11	1.46	0.62
1:f:124:MET:SD	1:f:241:HIS:NE2	2.72	0.62
1:f:275:ARG:NH2	1:f:414:ILE:HD12	2.05	0.62
1:O:538:ARG:NH2	1:m:209:GLU:OE2	2.33	0.61
1:k:124:MET:SD	1:k:241:HIS:NE2	2.72	0.61
1:u:124:MET:SD	1:u:241:HIS:NE2	2.72	0.61
1:x:538:ARG:NH2	1:y:209:GLU:OE2	2.33	0.61
1:T:209:GLU:OE2	1:l:538:ARG:NH2	2.33	0.61
1:Z:209:GLU:OE2	1:3:538:ARG:NH2	2.33	0.61
1:N:538:ARG:NH2	1:P:209:GLU:OE2	2.33	0.61
1:R:209:GLU:OE2	1:U:538:ARG:NH2	2.33	0.61
1:a:538:ARG:NH2	1:8:209:GLU:OE2	2.33	0.61
1:d:538:ARG:NH2	1:l:209:GLU:OE2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:209:GLU:OE2	1:s:538:ARG:NH2	2.33	0.61
1:D:527:ARG:NH2	1:N:216:ALA:O	2.31	0.61
1:F:209:GLU:OE2	1:Q:538:ARG:NH2	2.33	0.61
1:O:209:GLU:OE2	1:n:538:ARG:NH2	2.33	0.61
1:R:538:ARG:NH2	1:S:209:GLU:OE2	2.33	0.61
1:i:216:ALA:O	1:k:527:ARG:NH2	2.31	0.61
1:i:538:ARG:NH2	1:j:209:GLU:OE2	2.33	0.61
1:q:538:ARG:NH2	1:r:209:GLU:OE2	2.33	0.61
1:B:538:ARG:NH2	1:J:209:GLU:OE2	2.33	0.61
1:H:538:ARG:NH2	1:W:209:GLU:OE2	2.33	0.61
1:O:527:ARG:NH2	1:m:216:ALA:O	2.31	0.61
1:e:275:ARG:NH2	1:e:414:ILE:HD12	2.05	0.61
1:j:538:ARG:NH2	1:k:209:GLU:OE2	2.33	0.61
1:1:538:ARG:NH2	1:2:209:GLU:OE2	2.33	0.61
1:C:538:ARG:NH2	1:b:209:GLU:OE2	2.33	0.61
1:T:216:ALA:O	1:l:527:ARG:NH2	2.31	0.61
1:w:538:ARG:NH2	1:x:209:GLU:OE2	2.33	0.61
1:A:209:GLU:OE2	1:I:538:ARG:NH2	2.33	0.61
1:D:209:GLU:OE2	1:P:538:ARG:NH2	2.33	0.61
1:K:209:GLU:OE2	1:8:538:ARG:NH2	2.33	0.61
1:Z:538:ARG:NH2	1:4:209:GLU:OE2	2.33	0.61
1:f:216:ALA:O	1:g:527:ARG:NH2	2.32	0.61
1:i:209:GLU:OE2	1:k:538:ARG:NH2	2.33	0.61
1:u:538:ARG:NH2	1:v:209:GLU:OE2	2.33	0.61
1:C:209:GLU:OE2	1:M:538:ARG:NH2	2.33	0.61
1:D:538:ARG:NH2	1:N:209:GLU:OE2	2.33	0.61
1:V:209:GLU:OE2	1:X:538:ARG:NH2	2.33	0.61
1:c:275:ARG:NH2	1:c:414:ILE:HD12	2.05	0.61
1:C:59:ASN:ND2	1:C:102:HIS:HA	2.16	0.61
1:M:209:GLU:OE2	1:b:538:ARG:NH2	2.33	0.61
1:o:538:ARG:NH2	1:p:209:GLU:OE2	2.33	0.61
1:y:275:ARG:NH2	1:y:414:ILE:HD12	2.05	0.61
1:G:59:ASN:ND2	1:G:102:HIS:HA	2.16	0.60
1:K:59:ASN:ND2	1:K:102:HIS:HA	2.16	0.60
1:c:59:ASN:ND2	1:c:102:HIS:HA	2.16	0.60
1:t:538:ARG:NH2	1:u:209:GLU:OE2	2.33	0.60
1:4:59:ASN:ND2	1:4:102:HIS:HA	2.16	0.60
1:A:59:ASN:ND2	1:A:102:HIS:HA	2.16	0.60
1:E:59:ASN:ND2	1:E:102:HIS:HA	2.16	0.60
1:G:538:ARG:NH2	1:I:209:GLU:OE2	2.33	0.60
1:K:538:ARG:NH2	1:a:209:GLU:OE2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:59:ASN:ND2	1:Q:102:HIS:HA	2.16	0.60
1:R:59:ASN:ND2	1:R:102:HIS:HA	2.16	0.60
1:e:59:ASN:ND2	1:e:102:HIS:HA	2.16	0.60
1:g:59:ASN:ND2	1:g:102:HIS:HA	2.17	0.60
1:m:538:ARG:NH2	1:n:209:GLU:OE2	2.33	0.60
1:q:59:ASN:ND2	1:q:102:HIS:HA	2.16	0.60
1:t:59:ASN:ND2	1:t:102:HIS:HA	2.16	0.60
1:v:59:ASN:ND2	1:v:102:HIS:HA	2.16	0.60
1:C:97:ASN:OD1	1:C:454:ILE:N	2.35	0.60
1:D:97:ASN:OD1	1:D:454:ILE:N	2.35	0.60
1:T:538:ARG:NH2	1:d:209:GLU:OE2	2.33	0.60
1:r:538:ARG:NH2	1:s:209:GLU:OE2	2.33	0.60
1:t:209:GLU:OE2	1:v:538:ARG:NH2	2.33	0.60
1:w:59:ASN:ND2	1:w:102:HIS:HA	2.17	0.60
1:x:59:ASN:ND2	1:x:102:HIS:HA	2.17	0.60
1:5:59:ASN:ND2	1:5:102:HIS:HA	2.17	0.60
1:B:59:ASN:ND2	1:B:102:HIS:HA	2.16	0.60
1:E:209:GLU:OE2	1:F:538:ARG:NH2	2.33	0.60
1:H:59:ASN:ND2	1:H:102:HIS:HA	2.17	0.60
1:J:59:ASN:ND2	1:J:102:HIS:HA	2.16	0.60
1:S:538:ARG:NH2	1:U:209:GLU:OE2	2.33	0.60
1:V:59:ASN:ND2	1:V:102:HIS:HA	2.16	0.60
1:a:59:ASN:ND2	1:a:102:HIS:HA	2.16	0.60
1:b:59:ASN:ND2	1:b:102:HIS:HA	2.16	0.60
1:f:59:ASN:ND2	1:f:102:HIS:HA	2.17	0.60
1:w:209:GLU:OE2	1:y:538:ARG:NH2	2.33	0.60
1:1:59:ASN:ND2	1:1:102:HIS:HA	2.16	0.60
1:2:59:ASN:ND2	1:2:102:HIS:HA	2.16	0.60
1:3:59:ASN:ND2	1:3:102:HIS:HA	2.16	0.60
1:3:209:GLU:OE2	1:4:538:ARG:NH2	2.33	0.60
1:A:538:ARG:NH2	1:G:209:GLU:OE2	2.33	0.60
1:F:275:ARG:NH2	1:F:414:ILE:HD12	2.05	0.60
1:M:59:ASN:ND2	1:M:102:HIS:HA	2.16	0.60
1:c:209:GLU:OE2	1:p:538:ARG:NH2	2.33	0.60
1:f:538:ARG:NH2	1:h:209:GLU:OE2	2.33	0.60
1:m:59:ASN:ND2	1:m:102:HIS:HA	2.16	0.60
1:r:59:ASN:ND2	1:r:102:HIS:HA	2.16	0.60
1:T:59:ASN:ND2	1:T:102:HIS:HA	2.16	0.60
1:V:538:ARG:NH2	1:e:209:GLU:OE2	2.33	0.60
1:X:59:ASN:ND2	1:X:102:HIS:HA	2.16	0.60
1:X:209:GLU:OE2	1:e:538:ARG:NH2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:59:ASN:ND2	1:Y:102:HIS:HA	2.17	0.60
1:h:59:ASN:ND2	1:h:102:HIS:HA	2.17	0.60
1:p:59:ASN:ND2	1:p:102:HIS:HA	2.16	0.60
1:z:209:GLU:OE2	1:2:538:ARG:NH2	2.33	0.60
1:7:59:ASN:ND2	1:7:102:HIS:HA	2.17	0.60
1:S:59:ASN:ND2	1:S:102:HIS:HA	2.16	0.60
1:c:538:ARG:NH2	1:o:209:GLU:OE2	2.33	0.60
1:o:59:ASN:ND2	1:o:102:HIS:HA	2.16	0.60
1:F:258:LEU:HA	1:F:571:LEU:HD21	1.84	0.60
1:J:538:ARG:NH2	1:L:209:GLU:OE2	2.33	0.60
1:U:97:ASN:OD1	1:U:454:ILE:N	2.35	0.60
1:Y:258:LEU:HA	1:Y:571:LEU:HD21	1.84	0.60
1:s:97:ASN:OD1	1:s:454:ILE:N	2.35	0.60
1:5:209:GLU:OE2	1:7:538:ARG:NH2	2.33	0.60
1:7:258:LEU:HA	1:7:571:LEU:HD21	1.84	0.60
1:H:209:GLU:OE2	1:Y:538:ARG:NH2	2.33	0.60
1:K:258:LEU:HA	1:K:571:LEU:HD21	1.84	0.60
1:y:258:LEU:HA	1:y:571:LEU:HD21	1.84	0.60
1:4:258:LEU:HA	1:4:571:LEU:HD21	1.84	0.60
1:N:59:ASN:ND2	1:N:102:HIS:HA	2.17	0.60
1:X:258:LEU:HA	1:X:571:LEU:HD21	1.84	0.60
1:i:59:ASN:ND2	1:i:102:HIS:HA	2.17	0.60
1:m:258:LEU:HA	1:m:571:LEU:HD21	1.84	0.60
1:o:258:LEU:HA	1:o:571:LEU:HD21	1.84	0.60
1:1:258:LEU:HA	1:1:571:LEU:HD21	1.84	0.60
1:2:258:LEU:HA	1:2:571:LEU:HD21	1.84	0.60
1:B:258:LEU:HA	1:B:571:LEU:HD21	1.84	0.59
1:G:258:LEU:HA	1:G:571:LEU:HD21	1.84	0.59
1:J:258:LEU:HA	1:J:571:LEU:HD21	1.84	0.59
1:L:59:ASN:ND2	1:L:102:HIS:HA	2.16	0.59
1:T:258:LEU:HA	1:T:571:LEU:HD21	1.84	0.59
1:W:258:LEU:HA	1:W:571:LEU:HD21	1.84	0.59
1:b:258:LEU:HA	1:b:571:LEU:HD21	1.84	0.59
1:k:258:LEU:HA	1:k:571:LEU:HD21	1.84	0.59
1:t:258:LEU:HA	1:t:571:LEU:HD21	1.84	0.59
1:v:258:LEU:HA	1:v:571:LEU:HD21	1.84	0.59
1:1:97:ASN:OD1	1:1:454:ILE:N	2.35	0.59
1:2:97:ASN:OD1	1:2:454:ILE:N	2.35	0.59
1:8:59:ASN:ND2	1:8:102:HIS:HA	2.16	0.59
1:A:258:LEU:HA	1:A:571:LEU:HD21	1.84	0.59
1:B:97:ASN:OD1	1:B:454:ILE:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:258:LEU:HA	1:C:571:LEU:HD21	1.84	0.59
1:F:59:ASN:ND2	1:F:102:HIS:HA	2.16	0.59
1:I:59:ASN:ND2	1:I:102:HIS:HA	2.17	0.59
1:J:97:ASN:OD1	1:J:454:ILE:N	2.35	0.59
1:Z:59:ASN:ND2	1:Z:102:HIS:HA	2.16	0.59
1:f:258:LEU:HA	1:f:571:LEU:HD21	1.84	0.59
1:i:97:ASN:OD1	1:i:454:ILE:N	2.35	0.59
1:u:59:ASN:ND2	1:u:102:HIS:HA	2.16	0.59
1:6:258:LEU:HA	1:6:571:LEU:HD21	1.84	0.59
1:D:258:LEU:HA	1:D:571:LEU:HD21	1.84	0.59
1:N:97:ASN:OD1	1:N:454:ILE:N	2.35	0.59
1:g:258:LEU:HA	1:g:571:LEU:HD21	1.84	0.59
1:l:59:ASN:ND2	1:l:102:HIS:HA	2.16	0.59
1:n:59:ASN:ND2	1:n:102:HIS:HA	2.16	0.59
1:z:59:ASN:ND2	1:z:102:HIS:HA	2.17	0.59
1:z:97:ASN:OD1	1:z:454:ILE:N	2.35	0.59
1:3:258:LEU:HA	1:3:571:LEU:HD21	1.84	0.59
1:S:258:LEU:HA	1:S:571:LEU:HD21	1.84	0.59
1:a:258:LEU:HA	1:a:571:LEU:HD21	1.84	0.59
1:d:59:ASN:ND2	1:d:102:HIS:HA	2.16	0.59
1:r:258:LEU:HA	1:r:571:LEU:HD21	1.84	0.59
1:s:59:ASN:ND2	1:s:102:HIS:HA	2.16	0.59
1:x:258:LEU:HA	1:x:571:LEU:HD21	1.84	0.59
1:y:59:ASN:ND2	1:y:102:HIS:HA	2.16	0.59
1:6:538:ARG:NH2	1:7:209:GLU:OE2	2.33	0.59
1:D:154:ILE:HD12	1:D:232:LEU:HD12	1.85	0.59
1:H:258:LEU:HA	1:H:571:LEU:HD21	1.84	0.59
1:L:97:ASN:OD1	1:L:454:ILE:N	2.35	0.59
1:O:59:ASN:ND2	1:O:102:HIS:HA	2.16	0.59
1:Q:258:LEU:HA	1:Q:571:LEU:HD21	1.84	0.59
1:W:59:ASN:ND2	1:W:102:HIS:HA	2.17	0.59
1:W:154:ILE:HD12	1:W:232:LEU:HD12	1.85	0.59
1:W:538:ARG:NH2	1:Y:209:GLU:OE2	2.33	0.59
1:v:97:ASN:OD1	1:v:454:ILE:N	2.35	0.59
1:w:258:LEU:HA	1:w:571:LEU:HD21	1.84	0.59
1:z:538:ARG:NH2	1:1:209:GLU:OE2	2.33	0.59
1:5:258:LEU:HA	1:5:571:LEU:HD21	1.84	0.59
1:5:538:ARG:NH2	1:6:209:GLU:OE2	2.33	0.59
1:B:195:ASP:HB2	1:B:335:TYR:H	1.68	0.59
1:K:154:ILE:HD12	1:K:232:LEU:HD12	1.85	0.59
1:L:154:ILE:HD12	1:L:232:LEU:HD12	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:154:ILE:HD12	1:T:232:LEU:HD12	1.85	0.59
1:U:59:ASN:ND2	1:U:102:HIS:HA	2.16	0.59
1:a:154:ILE:HD12	1:a:232:LEU:HD12	1.85	0.59
1:d:154:ILE:HD12	1:d:232:LEU:HD12	1.85	0.59
1:j:59:ASN:ND2	1:j:102:HIS:HA	2.17	0.59
1:k:154:ILE:HD12	1:k:232:LEU:HD12	1.85	0.59
1:n:154:ILE:HD12	1:n:232:LEU:HD12	1.85	0.59
1:p:97:ASN:OD1	1:p:454:ILE:N	2.35	0.59
1:w:154:ILE:HD12	1:w:232:LEU:HD12	1.85	0.59
1:x:97:ASN:OD1	1:x:454:ILE:N	2.35	0.59
1:3:154:ILE:HD12	1:3:232:LEU:HD12	1.85	0.59
1:3:451:ASP:O	1:3:452:PHE:HD1	1.86	0.59
1:4:97:ASN:OD1	1:4:454:ILE:N	2.35	0.59
1:6:59:ASN:ND2	1:6:102:HIS:HA	2.17	0.59
1:6:154:ILE:HD12	1:6:232:LEU:HD12	1.85	0.59
1:A:97:ASN:OD1	1:A:454:ILE:N	2.35	0.59
1:B:209:GLU:OE2	1:L:538:ARG:NH2	2.33	0.59
1:D:59:ASN:ND2	1:D:102:HIS:HA	2.17	0.59
1:E:154:ILE:HD12	1:E:232:LEU:HD12	1.85	0.59
1:E:258:LEU:HA	1:E:571:LEU:HD21	1.84	0.59
1:P:59:ASN:ND2	1:P:102:HIS:HA	2.17	0.59
1:P:258:LEU:HA	1:P:571:LEU:HD21	1.84	0.59
1:Q:97:ASN:OD1	1:Q:454:ILE:N	2.35	0.59
1:a:451:ASP:O	1:a:452:PHE:HD1	1.86	0.59
1:k:59:ASN:ND2	1:k:102:HIS:HA	2.17	0.59
1:m:154:ILE:HD12	1:m:232:LEU:HD12	1.85	0.59
1:u:195:ASP:HB2	1:u:335:TYR:H	1.68	0.59
1:w:451:ASP:O	1:w:452:PHE:HD1	1.86	0.59
1:1:195:ASP:HB2	1:1:335:TYR:H	1.68	0.59
1:4:154:ILE:HD12	1:4:232:LEU:HD12	1.85	0.59
1:C:154:ILE:HD12	1:C:232:LEU:HD12	1.85	0.59
1:E:451:ASP:O	1:E:452:PHE:HD1	1.86	0.59
1:I:195:ASP:HB2	1:I:335:TYR:H	1.68	0.59
1:K:97:ASN:OD1	1:K:454:ILE:N	2.35	0.59
1:Q:154:ILE:HD12	1:Q:232:LEU:HD12	1.85	0.59
1:V:97:ASN:OD1	1:V:454:ILE:N	2.35	0.59
1:X:195:ASP:HB2	1:X:335:TYR:H	1.68	0.59
1:c:154:ILE:HD12	1:c:232:LEU:HD12	1.85	0.59
1:e:154:ILE:HD12	1:e:232:LEU:HD12	1.85	0.59
1:j:258:LEU:HA	1:j:571:LEU:HD21	1.84	0.59
1:l:195:ASP:HB2	1:l:335:TYR:H	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:195:ASP:HB2	1:o:335:TYR:H	1.68	0.59
1:x:154:ILE:HD12	1:x:232:LEU:HD12	1.85	0.59
1:z:154:ILE:HD12	1:z:232:LEU:HD12	1.85	0.59
1:2:154:ILE:HD12	1:2:232:LEU:HD12	1.85	0.59
1:C:195:ASP:HB2	1:C:335:TYR:H	1.68	0.59
1:J:154:ILE:HD12	1:J:232:LEU:HD12	1.85	0.59
1:O:195:ASP:HB2	1:O:335:TYR:H	1.68	0.59
1:Q:195:ASP:HB2	1:Q:335:TYR:H	1.68	0.59
1:g:154:ILE:HD12	1:g:232:LEU:HD12	1.85	0.59
1:g:195:ASP:HB2	1:g:335:TYR:H	1.68	0.59
1:h:195:ASP:HB2	1:h:335:TYR:H	1.68	0.59
1:s:154:ILE:HD12	1:s:232:LEU:HD12	1.85	0.59
1:l:451:ASP:O	1:l:452:PHE:HD1	1.86	0.59
1:3:97:ASN:OD1	1:3:454:ILE:N	2.35	0.59
1:6:195:ASP:HB2	1:6:335:TYR:H	1.68	0.59
1:R:451:ASP:O	1:R:452:PHE:HD1	1.86	0.59
1:U:154:ILE:HD12	1:U:232:LEU:HD12	1.85	0.59
1:W:195:ASP:HB2	1:W:335:TYR:H	1.68	0.59
1:X:154:ILE:HD12	1:X:232:LEU:HD12	1.85	0.59
1:o:154:ILE:HD12	1:o:232:LEU:HD12	1.85	0.59
1:q:451:ASP:O	1:q:452:PHE:HD1	1.86	0.59
1:x:195:ASP:HB2	1:x:335:TYR:H	1.68	0.59
1:5:97:ASN:OD1	1:5:454:ILE:N	2.35	0.59
1:B:451:ASP:O	1:B:452:PHE:HD1	1.86	0.58
1:E:97:ASN:OD1	1:E:454:ILE:N	2.35	0.58
1:H:310:THR:HB	1:Y:275:ARG:H	1.68	0.58
1:I:97:ASN:OD1	1:I:454:ILE:N	2.35	0.58
1:M:195:ASP:HB2	1:M:335:TYR:H	1.68	0.58
1:V:258:LEU:HA	1:V:571:LEU:HD21	1.84	0.58
1:W:275:ARG:H	1:Y:310:THR:HB	1.68	0.58
1:X:451:ASP:O	1:X:452:PHE:HD1	1.86	0.58
1:a:97:ASN:OD1	1:a:454:ILE:N	2.35	0.58
1:f:195:ASP:HB2	1:f:335:TYR:H	1.68	0.58
1:n:258:LEU:HA	1:n:571:LEU:HD21	1.84	0.58
1:p:258:LEU:HA	1:p:571:LEU:HD21	1.84	0.58
1:q:195:ASP:HB2	1:q:335:TYR:H	1.68	0.58
1:u:97:ASN:OD1	1:u:454:ILE:N	2.35	0.58
1:u:451:ASP:O	1:u:452:PHE:HD1	1.86	0.58
1:y:451:ASP:O	1:y:452:PHE:HD1	1.86	0.58
1:6:275:ARG:H	1:7:310:THR:HB	1.68	0.58
1:D:451:ASP:O	1:D:452:PHE:HD1	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:451:ASP:O	1:F:452:PHE:HD1	1.86	0.58
1:G:154:ILE:HD12	1:G:232:LEU:HD12	1.85	0.58
1:H:97:ASN:OD1	1:H:454:ILE:N	2.35	0.58
1:R:195:ASP:HB2	1:R:335:TYR:H	1.68	0.58
1:Z:195:ASP:HB2	1:Z:335:TYR:H	1.68	0.58
1:d:258:LEU:HA	1:d:571:LEU:HD21	1.84	0.58
1:h:97:ASN:OD1	1:h:454:ILE:N	2.35	0.58
1:k:451:ASP:O	1:k:452:PHE:HD1	1.86	0.58
1:o:451:ASP:O	1:o:452:PHE:HD1	1.86	0.58
1:q:97:ASN:OD1	1:q:454:ILE:N	2.35	0.58
1:u:258:LEU:HA	1:u:571:LEU:HD21	1.84	0.58
1:w:97:ASN:OD1	1:w:454:ILE:N	2.35	0.58
1:5:310:THR:HB	1:7:275:ARG:H	1.68	0.58
1:C:304:LEU:HD22	1:C:363:VAL:HG21	1.86	0.58
1:I:258:LEU:HA	1:I:571:LEU:HD21	1.84	0.58
1:I:451:ASP:O	1:I:452:PHE:HD1	1.86	0.58
1:L:258:LEU:HA	1:L:571:LEU:HD21	1.84	0.58
1:M:97:ASN:OD1	1:M:454:ILE:N	2.35	0.58
1:N:275:ARG:H	1:P:310:THR:HB	1.68	0.58
1:O:258:LEU:HA	1:O:571:LEU:HD21	1.84	0.58
1:R:97:ASN:OD1	1:R:454:ILE:N	2.35	0.58
1:S:97:ASN:OD1	1:S:454:ILE:N	2.35	0.58
1:Z:258:LEU:HA	1:Z:571:LEU:HD21	1.84	0.58
1:Z:310:THR:HB	1:3:275:ARG:H	1.68	0.58
1:a:275:ARG:H	1:8:310:THR:HB	1.68	0.58
1:b:195:ASP:HB2	1:b:335:TYR:H	1.68	0.58
1:b:304:LEU:HD22	1:b:363:VAL:HG21	1.86	0.58
1:c:304:LEU:HD22	1:c:363:VAL:HG21	1.86	0.58
1:i:275:ARG:H	1:j:310:THR:HB	1.68	0.58
1:l:258:LEU:HA	1:l:571:LEU:HD21	1.84	0.58
1:r:97:ASN:OD1	1:r:454:ILE:N	2.35	0.58
1:s:451:ASP:O	1:s:452:PHE:HD1	1.86	0.58
1:t:154:ILE:HD12	1:t:232:LEU:HD12	1.85	0.58
1:z:258:LEU:HA	1:z:571:LEU:HD21	1.84	0.58
1:z:304:LEU:HD22	1:z:363:VAL:HG21	1.86	0.58
1:z:310:THR:HB	1:2:275:ARG:H	1.68	0.58
1:z:451:ASP:O	1:z:452:PHE:HD1	1.86	0.58
1:7:304:LEU:HD22	1:7:363:VAL:HG21	1.86	0.58
1:7:451:ASP:O	1:7:452:PHE:HD1	1.86	0.58
1:8:195:ASP:HB2	1:8:335:TYR:H	1.68	0.58
1:B:154:ILE:HD12	1:B:232:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:275:ARG:H	1:L:310:THR:HB	1.68	0.58
1:L:304:LEU:HD22	1:L:363:VAL:HG21	1.86	0.58
1:L:451:ASP:O	1:L:452:PHE:HD1	1.86	0.58
1:N:195:ASP:HB2	1:N:335:TYR:H	1.68	0.58
1:T:451:ASP:O	1:T:452:PHE:HD1	1.86	0.58
1:U:451:ASP:O	1:U:452:PHE:HD1	1.86	0.58
1:Y:304:LEU:HD22	1:Y:363:VAL:HG21	1.86	0.58
1:Z:275:ARG:H	1:4:310:THR:HB	1.68	0.58
1:b:451:ASP:O	1:b:452:PHE:HD1	1.86	0.58
1:e:258:LEU:HA	1:e:571:LEU:HD21	1.84	0.58
1:e:304:LEU:HD22	1:e:363:VAL:HG21	1.86	0.58
1:f:304:LEU:HD22	1:f:363:VAL:HG21	1.86	0.58
1:g:304:LEU:HD22	1:g:363:VAL:HG21	1.86	0.58
1:h:258:LEU:HA	1:h:571:LEU:HD21	1.84	0.58
1:i:451:ASP:O	1:i:452:PHE:HD1	1.86	0.58
1:j:451:ASP:O	1:j:452:PHE:HD1	1.86	0.58
1:k:304:LEU:HD22	1:k:363:VAL:HG21	1.86	0.58
1:z:195:ASP:HB2	1:z:335:TYR:H	1.68	0.58
1:1:154:ILE:HD12	1:1:232:LEU:HD12	1.85	0.58
1:8:258:LEU:HA	1:8:571:LEU:HD21	1.84	0.58
1:D:195:ASP:HB2	1:D:335:TYR:H	1.68	0.58
1:D:275:ARG:H	1:N:310:THR:HB	1.68	0.58
1:D:304:LEU:HD22	1:D:363:VAL:HG21	1.86	0.58
1:J:451:ASP:O	1:J:452:PHE:HD1	1.86	0.58
1:K:310:THR:HB	1:8:275:ARG:H	1.68	0.58
1:M:258:LEU:HA	1:M:571:LEU:HD21	1.84	0.58
1:M:310:THR:HB	1:b:275:ARG:H	1.68	0.58
1:N:451:ASP:O	1:N:452:PHE:HD1	1.86	0.58
1:O:310:THR:HB	1:n:275:ARG:H	1.68	0.58
1:U:195:ASP:HB2	1:U:335:TYR:H	1.68	0.58
1:U:258:LEU:HA	1:U:571:LEU:HD21	1.84	0.58
1:Y:154:ILE:HD12	1:Y:232:LEU:HD12	1.85	0.58
1:Y:451:ASP:O	1:Y:452:PHE:HD1	1.86	0.58
1:d:275:ARG:H	1:l:310:THR:HB	1.69	0.58
1:f:451:ASP:O	1:f:452:PHE:HD1	1.86	0.58
1:m:304:LEU:HD22	1:m:363:VAL:HG21	1.86	0.58
1:m:451:ASP:O	1:m:452:PHE:HD1	1.86	0.58
1:v:490:ILE:HD12	1:v:504:LEU:HD21	1.86	0.58
1:w:195:ASP:HB2	1:w:335:TYR:H	1.68	0.58
1:z:275:ARG:H	1:1:310:THR:HB	1.68	0.58
1:3:195:ASP:HB2	1:3:335:TYR:H	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:304:LEU:HD22	1:6:363:VAL:HG21	1.86	0.58
1:7:154:ILE:HD12	1:7:232:LEU:HD12	1.85	0.58
1:A:490:ILE:HD12	1:A:504:LEU:HD21	1.86	0.58
1:B:310:THR:HB	1:L:275:ARG:H	1.68	0.58
1:F:154:ILE:HD12	1:F:232:LEU:HD12	1.85	0.58
1:F:304:LEU:HD22	1:F:363:VAL:HG21	1.86	0.58
1:G:97:ASN:OD1	1:G:454:ILE:N	2.35	0.58
1:G:490:ILE:HD12	1:G:504:LEU:HD21	1.86	0.58
1:K:490:ILE:HD12	1:K:504:LEU:HD21	1.86	0.58
1:O:154:ILE:HD12	1:O:232:LEU:HD12	1.85	0.58
1:P:304:LEU:HD22	1:P:363:VAL:HG21	1.86	0.58
1:P:451:ASP:O	1:P:452:PHE:HD1	1.86	0.58
1:T:304:LEU:HD22	1:T:363:VAL:HG21	1.86	0.58
1:W:304:LEU:HD22	1:W:363:VAL:HG21	1.86	0.58
1:c:258:LEU:HA	1:c:571:LEU:HD21	1.84	0.58
1:d:304:LEU:HD22	1:d:363:VAL:HG21	1.86	0.58
1:g:310:THR:HB	1:h:275:ARG:H	1.68	0.58
1:h:304:LEU:HD22	1:h:363:VAL:HG21	1.86	0.58
1:i:195:ASP:HB2	1:i:335:TYR:H	1.68	0.58
1:j:304:LEU:HD22	1:j:363:VAL:HG21	1.86	0.58
1:n:304:LEU:HD22	1:n:363:VAL:HG21	1.86	0.58
1:s:258:LEU:HA	1:s:571:LEU:HD21	1.84	0.58
1:t:490:ILE:HD12	1:t:504:LEU:HD21	1.86	0.58
1:y:154:ILE:HD12	1:y:232:LEU:HD12	1.85	0.58
1:y:304:LEU:HD22	1:y:363:VAL:HG21	1.86	0.58
1:2:451:ASP:O	1:2:452:PHE:HD1	1.86	0.58
1:4:490:ILE:HD12	1:4:504:LEU:HD21	1.86	0.58
1:6:451:ASP:O	1:6:452:PHE:HD1	1.86	0.58
1:D:310:THR:HB	1:P:275:ARG:H	1.68	0.58
1:E:195:ASP:HB2	1:E:335:TYR:H	1.68	0.58
1:H:154:ILE:HD12	1:H:232:LEU:HD12	1.85	0.58
1:H:451:ASP:O	1:H:452:PHE:HD1	1.86	0.58
1:L:195:ASP:HB2	1:L:335:TYR:H	1.68	0.58
1:M:451:ASP:O	1:M:452:PHE:HD1	1.86	0.58
1:N:154:ILE:HD12	1:N:232:LEU:HD12	1.85	0.58
1:S:195:ASP:HB2	1:S:335:TYR:H	1.68	0.58
1:T:310:THR:HB	1:l:275:ARG:H	1.68	0.58
1:V:451:ASP:O	1:V:452:PHE:HD1	1.86	0.58
1:a:195:ASP:HB2	1:a:335:TYR:H	1.68	0.58
1:c:490:ILE:HD12	1:c:504:LEU:HD21	1.86	0.58
1:e:490:ILE:HD12	1:e:504:LEU:HD21	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:275:ARG:H	1:h:310:THR:HB	1.69	0.58
1:g:451:ASP:O	1:g:452:PHE:HD1	1.86	0.58
1:i:154:ILE:HD12	1:i:232:LEU:HD12	1.85	0.58
1:i:310:THR:HB	1:k:275:ARG:H	1.68	0.58
1:k:195:ASP:HB2	1:k:335:TYR:H	1.68	0.58
1:k:490:ILE:HD12	1:k:504:LEU:HD21	1.86	0.58
1:l:154:ILE:HD12	1:l:232:LEU:HD12	1.85	0.58
1:o:97:ASN:OD1	1:o:454:ILE:N	2.35	0.58
1:p:451:ASP:O	1:p:452:PHE:HD1	1.86	0.58
1:r:451:ASP:O	1:r:452:PHE:HD1	1.86	0.58
1:t:97:ASN:OD1	1:t:454:ILE:N	2.35	0.58
1:w:275:ARG:H	1:x:310:THR:HB	1.68	0.58
1:D:490:ILE:HD12	1:D:504:LEU:HD21	1.86	0.58
1:M:304:LEU:HD22	1:M:363:VAL:HG21	1.86	0.58
1:O:275:ARG:H	1:m:310:THR:HB	1.68	0.58
1:S:451:ASP:O	1:S:452:PHE:HD1	1.86	0.58
1:S:490:ILE:HD12	1:S:504:LEU:HD21	1.86	0.58
1:V:154:ILE:HD12	1:V:232:LEU:HD12	1.85	0.58
1:V:195:ASP:HB2	1:V:335:TYR:H	1.68	0.58
1:W:451:ASP:O	1:W:452:PHE:HD1	1.86	0.58
1:c:275:ARG:H	1:o:310:THR:HB	1.68	0.58
1:h:451:ASP:O	1:h:452:PHE:HD1	1.86	0.58
1:r:195:ASP:HB2	1:r:335:TYR:H	1.68	0.58
1:s:195:ASP:HB2	1:s:335:TYR:H	1.68	0.58
1:4:304:LEU:HD22	1:4:363:VAL:HG21	1.86	0.58
1:5:154:ILE:HD12	1:5:232:LEU:HD12	1.85	0.58
1:5:451:ASP:O	1:5:452:PHE:HD1	1.86	0.58
1:8:97:ASN:OD1	1:8:454:ILE:N	2.35	0.58
1:C:451:ASP:O	1:C:452:PHE:HD1	1.86	0.58
1:J:490:ILE:HD12	1:J:504:LEU:HD21	1.86	0.58
1:K:304:LEU:HD22	1:K:363:VAL:HG21	1.86	0.58
1:N:258:LEU:HA	1:N:571:LEU:HD21	1.84	0.58
1:N:490:ILE:HD12	1:N:504:LEU:HD21	1.86	0.58
1:O:451:ASP:O	1:O:452:PHE:HD1	1.86	0.58
1:R:258:LEU:HA	1:R:571:LEU:HD21	1.84	0.58
1:S:275:ARG:H	1:U:310:THR:HB	1.68	0.58
1:V:275:ARG:H	1:e:310:THR:HB	1.69	0.58
1:V:310:THR:HB	1:X:275:ARG:H	1.69	0.58
1:X:97:ASN:OD1	1:X:454:ILE:N	2.35	0.58
1:X:310:THR:HB	1:e:275:ARG:H	1.68	0.58
1:Z:97:ASN:OD1	1:Z:454:ILE:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:490:ILE:HD12	1:Z:504:LEU:HD21	1.86	0.58
1:c:451:ASP:O	1:c:452:PHE:HD1	1.86	0.58
1:f:154:ILE:HD12	1:f:232:LEU:HD12	1.85	0.58
1:i:258:LEU:HA	1:i:571:LEU:HD21	1.84	0.58
1:j:275:ARG:H	1:k:310:THR:HB	1.68	0.58
1:l:304:LEU:HD22	1:l:363:VAL:HG21	1.86	0.58
1:o:275:ARG:H	1:p:310:THR:HB	1.69	0.58
1:o:304:LEU:HD22	1:o:363:VAL:HG21	1.86	0.58
1:p:154:ILE:HD12	1:p:232:LEU:HD12	1.85	0.58
1:p:195:ASP:HB2	1:p:335:TYR:H	1.68	0.58
1:q:258:LEU:HA	1:q:571:LEU:HD21	1.84	0.58
1:r:490:ILE:HD12	1:r:504:LEU:HD21	1.86	0.58
1:1:304:LEU:HD22	1:1:363:VAL:HG21	1.86	0.58
1:A:275:ARG:H	1:G:310:THR:HB	1.68	0.58
1:B:304:LEU:HD22	1:B:363:VAL:HG21	1.86	0.58
1:I:154:ILE:HD12	1:I:232:LEU:HD12	1.85	0.58
1:O:304:LEU:HD22	1:O:363:VAL:HG21	1.86	0.58
1:P:490:ILE:HD12	1:P:504:LEU:HD21	1.86	0.58
1:Q:304:LEU:HD22	1:Q:363:VAL:HG21	1.86	0.58
1:T:195:ASP:HB2	1:T:335:TYR:H	1.68	0.58
1:Z:451:ASP:O	1:Z:452:PHE:HD1	1.86	0.58
1:b:154:ILE:HD12	1:b:232:LEU:HD12	1.85	0.58
1:e:195:ASP:HB2	1:e:335:TYR:H	1.68	0.58
1:e:451:ASP:O	1:e:452:PHE:HD1	1.86	0.58
1:h:154:ILE:HD12	1:h:232:LEU:HD12	1.85	0.58
1:i:490:ILE:HD12	1:i:504:LEU:HD21	1.86	0.58
1:j:490:ILE:HD12	1:j:504:LEU:HD21	1.86	0.58
1:l:451:ASP:O	1:l:452:PHE:HD1	1.86	0.58
1:m:195:ASP:HB2	1:m:335:TYR:H	1.68	0.58
1:q:490:ILE:HD12	1:q:504:LEU:HD21	1.86	0.58
1:r:275:ARG:H	1:s:310:THR:HB	1.68	0.58
1:t:195:ASP:HB2	1:t:335:TYR:H	1.68	0.58
1:u:154:ILE:HD12	1:u:232:LEU:HD12	1.85	0.58
1:w:490:ILE:HD12	1:w:504:LEU:HD21	1.86	0.58
1:x:304:LEU:HD22	1:x:363:VAL:HG21	1.86	0.58
1:z:490:ILE:HD12	1:z:504:LEU:HD21	1.86	0.58
1:2:490:ILE:HD12	1:2:504:LEU:HD21	1.86	0.58
1:7:195:ASP:HB2	1:7:335:TYR:H	1.68	0.58
1:7:490:ILE:HD12	1:7:504:LEU:HD21	1.86	0.58
1:8:490:ILE:HD12	1:8:504:LEU:HD21	1.86	0.58
1:B:490:ILE:HD12	1:B:504:LEU:HD21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:490:ILE:HD12	1:E:504:LEU:HD21	1.86	0.57
1:H:304:LEU:HD22	1:H:363:VAL:HG21	1.86	0.57
1:L:490:ILE:HD12	1:L:504:LEU:HD21	1.86	0.57
1:U:304:LEU:HD22	1:U:363:VAL:HG21	1.86	0.57
1:X:304:LEU:HD22	1:X:363:VAL:HG21	1.86	0.57
1:Y:97:ASN:OD1	1:Y:454:ILE:N	2.35	0.57
1:Y:195:ASP:HB2	1:Y:335:TYR:H	1.68	0.57
1:c:310:THR:HB	1:p:275:ARG:H	1.69	0.57
1:r:304:LEU:HD22	1:r:363:VAL:HG21	1.86	0.57
1:v:195:ASP:HB2	1:v:335:TYR:H	1.68	0.57
1:x:490:ILE:HD12	1:x:504:LEU:HD21	1.86	0.57
1:1:490:ILE:HD12	1:1:504:LEU:HD21	1.86	0.57
1:5:304:LEU:HD22	1:5:363:VAL:HG21	1.86	0.57
1:A:195:ASP:HB2	1:A:335:TYR:H	1.68	0.57
1:G:195:ASP:HB2	1:G:335:TYR:H	1.68	0.57
1:G:451:ASP:O	1:G:452:PHE:HD1	1.86	0.57
1:M:154:ILE:HD12	1:M:232:LEU:HD12	1.85	0.57
1:Q:490:ILE:HD12	1:Q:504:LEU:HD21	1.86	0.57
1:R:490:ILE:HD12	1:R:504:LEU:HD21	1.86	0.57
1:S:304:LEU:HD22	1:S:363:VAL:HG21	1.86	0.57
1:Y:490:ILE:HD12	1:Y:504:LEU:HD21	1.86	0.57
1:c:195:ASP:HB2	1:c:335:TYR:H	1.68	0.57
1:f:310:THR:HB	1:g:275:ARG:H	1.68	0.57
1:m:490:ILE:HD12	1:m:504:LEU:HD21	1.86	0.57
1:t:310:THR:HB	1:v:275:ARG:H	1.68	0.57
1:v:154:ILE:HD12	1:v:232:LEU:HD12	1.85	0.57
1:7:97:ASN:OD1	1:7:454:ILE:N	2.35	0.57
1:8:451:ASP:O	1:8:452:PHE:HD1	1.86	0.57
1:A:154:ILE:HD12	1:A:232:LEU:HD12	1.85	0.57
1:A:451:ASP:O	1:A:452:PHE:HD1	1.86	0.57
1:F:195:ASP:HB2	1:F:335:TYR:H	1.68	0.57
1:P:154:ILE:HD12	1:P:232:LEU:HD12	1.85	0.57
1:d:195:ASP:HB2	1:d:335:TYR:H	1.68	0.57
1:s:304:LEU:HD22	1:s:363:VAL:HG21	1.86	0.57
1:t:451:ASP:O	1:t:452:PHE:HD1	1.86	0.57
1:u:275:ARG:H	1:v:310:THR:HB	1.69	0.57
1:6:97:ASN:OD1	1:6:454:ILE:N	2.35	0.57
1:E:275:ARG:H	1:Q:310:THR:HB	1.69	0.57
1:F:490:ILE:HD12	1:F:504:LEU:HD21	1.86	0.57
1:G:275:ARG:H	1:I:310:THR:HB	1.69	0.57
1:H:195:ASP:HB2	1:H:335:TYR:H	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:451:ASP:O	1:Q:452:PHE:HD1	1.86	0.57
1:T:490:ILE:HD12	1:T:504:LEU:HD21	1.86	0.57
1:W:97:ASN:OD1	1:W:454:ILE:N	2.35	0.57
1:j:154:ILE:HD12	1:j:232:LEU:HD12	1.85	0.57
1:o:490:ILE:HD12	1:o:504:LEU:HD21	1.86	0.57
1:q:275:ARG:H	1:r:310:THR:HB	1.68	0.57
1:t:275:ARG:H	1:u:310:THR:HB	1.69	0.57
1:v:451:ASP:O	1:v:452:PHE:HD1	1.86	0.57
1:8:154:ILE:HD12	1:8:232:LEU:HD12	1.85	0.57
1:B:275:ARG:H	1:J:310:THR:HB	1.68	0.57
1:F:310:THR:HB	1:Q:275:ARG:H	1.69	0.57
1:J:304:LEU:HD22	1:J:363:VAL:HG21	1.86	0.57
1:P:195:ASP:HB2	1:P:335:TYR:H	1.68	0.57
1:T:275:ARG:H	1:d:310:THR:HB	1.69	0.57
1:X:490:ILE:HD12	1:X:504:LEU:HD21	1.86	0.57
1:m:275:ARG:H	1:n:310:THR:HB	1.69	0.57
1:2:195:ASP:HB2	1:2:335:TYR:H	1.68	0.57
1:C:275:ARG:H	1:b:310:THR:HB	1.69	0.57
1:E:310:THR:HB	1:F:275:ARG:H	1.68	0.57
1:K:451:ASP:O	1:K:452:PHE:HD1	1.86	0.57
1:R:154:ILE:HD12	1:R:232:LEU:HD12	1.85	0.57
1:R:275:ARG:H	1:S:310:THR:HB	1.68	0.57
1:R:304:LEU:HD22	1:R:363:VAL:HG21	1.86	0.57
1:T:97:ASN:OD1	1:T:454:ILE:N	2.35	0.57
1:Z:154:ILE:HD12	1:Z:232:LEU:HD12	1.85	0.57
1:b:490:ILE:HD12	1:b:504:LEU:HD21	1.86	0.57
1:n:195:ASP:HB2	1:n:335:TYR:H	1.68	0.57
1:q:154:ILE:HD12	1:q:232:LEU:HD12	1.85	0.57
1:q:304:LEU:HD22	1:q:363:VAL:HG21	1.86	0.57
1:t:304:LEU:HD22	1:t:363:VAL:HG21	1.86	0.57
1:x:275:ARG:H	1:y:310:THR:HB	1.69	0.57
1:x:451:ASP:O	1:x:452:PHE:HD1	1.86	0.57
1:y:490:ILE:HD12	1:y:504:LEU:HD21	1.86	0.57
1:2:304:LEU:HD22	1:2:363:VAL:HG21	1.86	0.57
1:5:195:ASP:HB2	1:5:335:TYR:H	1.68	0.57
1:C:310:THR:HB	1:M:275:ARG:H	1.69	0.57
1:J:195:ASP:HB2	1:J:335:TYR:H	1.68	0.57
1:f:490:ILE:HD12	1:f:504:LEU:HD21	1.86	0.57
1:j:195:ASP:HB2	1:j:335:TYR:H	1.68	0.57
1:m:97:ASN:OD1	1:m:454:ILE:N	2.35	0.57
1:u:490:ILE:HD12	1:u:504:LEU:HD21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:195:ASP:HB2	1:y:335:TYR:H	1.68	0.57
1:1:275:ARG:H	1:2:310:THR:HB	1.68	0.57
1:A:310:THR:HB	1:I:275:ARG:H	1.69	0.57
1:G:304:LEU:HD22	1:G:363:VAL:HG21	1.86	0.57
1:I:490:ILE:HD12	1:I:504:LEU:HD21	1.86	0.57
1:M:490:ILE:HD12	1:M:504:LEU:HD21	1.86	0.57
1:N:304:LEU:HD22	1:N:363:VAL:HG21	1.86	0.57
1:h:490:ILE:HD12	1:h:504:LEU:HD21	1.86	0.57
1:w:310:THR:HB	1:y:275:ARG:H	1.69	0.57
1:3:304:LEU:HD22	1:3:363:VAL:HG21	1.86	0.57
1:4:451:ASP:O	1:4:452:PHE:HD1	1.86	0.57
1:A:304:LEU:HD22	1:A:363:VAL:HG21	1.86	0.57
1:a:304:LEU:HD22	1:a:363:VAL:HG21	1.86	0.57
1:c:97:ASN:OD1	1:c:454:ILE:N	2.35	0.57
1:d:451:ASP:O	1:d:452:PHE:HD1	1.86	0.57
1:i:304:LEU:HD22	1:i:363:VAL:HG21	1.86	0.57
1:j:97:ASN:OD1	1:j:454:ILE:N	2.35	0.57
1:p:304:LEU:HD22	1:p:363:VAL:HG21	1.86	0.57
1:q:310:THR:HB	1:s:275:ARG:H	1.68	0.57
1:r:154:ILE:HD12	1:r:232:LEU:HD12	1.85	0.57
1:C:490:ILE:HD12	1:C:504:LEU:HD21	1.86	0.57
1:K:195:ASP:HB2	1:K:335:TYR:H	1.68	0.57
1:S:154:ILE:HD12	1:S:232:LEU:HD12	1.85	0.57
1:V:304:LEU:HD22	1:V:363:VAL:HG21	1.86	0.57
1:Z:362:PRO:HD2	1:3:297:GLN:HE22	1.70	0.57
1:e:97:ASN:OD1	1:e:454:ILE:N	2.35	0.57
1:v:304:LEU:HD22	1:v:363:VAL:HG21	1.86	0.57
1:w:362:PRO:HD2	1:y:297:GLN:HE22	1.70	0.57
1:4:195:ASP:HB2	1:4:335:TYR:H	1.68	0.57
1:5:275:ARG:H	1:6:310:THR:HB	1.68	0.57
1:5:490:ILE:HD12	1:5:504:LEU:HD21	1.86	0.57
1:E:362:PRO:HD2	1:F:297:GLN:HE22	1.70	0.56
1:H:275:ARG:H	1:W:310:THR:HB	1.68	0.56
1:a:297:GLN:HE22	1:8:362:PRO:HD2	1.70	0.56
1:m:297:GLN:HE22	1:n:362:PRO:HD2	1.70	0.56
1:G:297:GLN:HE22	1:I:362:PRO:HD2	1.70	0.56
1:H:490:ILE:HD12	1:H:504:LEU:HD21	1.86	0.56
1:M:362:PRO:HD2	1:b:297:GLN:HE22	1.70	0.56
1:P:97:ASN:OD1	1:P:454:ILE:N	2.35	0.56
1:R:310:THR:HB	1:U:275:ARG:H	1.68	0.56
1:T:297:GLN:HE22	1:d:362:PRO:HD2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:463:LYS:HD2	1:h:466:LEU:HD21	1.87	0.56
1:g:490:ILE:HD12	1:g:504:LEU:HD21	1.86	0.56
1:j:466:LEU:HD21	1:k:463:LYS:HD2	1.88	0.56
1:n:451:ASP:O	1:n:452:PHE:HD1	1.86	0.56
1:t:297:GLN:HE22	1:u:362:PRO:HD2	1.70	0.56
1:z:362:PRO:HD2	1:2:297:GLN:HE22	1.70	0.56
1:A:466:LEU:HD21	1:G:463:LYS:HD2	1.87	0.56
1:C:362:PRO:HD2	1:M:297:GLN:HE22	1.70	0.56
1:D:463:LYS:HD2	1:P:466:LEU:HD21	1.88	0.56
1:G:544:THR:HG21	1:W:191:GLN:HE22	1.71	0.56
1:H:191:GLN:HE22	1:Z:544:THR:HG21	1.71	0.56
1:H:297:GLN:HE22	1:W:362:PRO:HD2	1.71	0.56
1:J:297:GLN:HE22	1:L:362:PRO:HD2	1.70	0.56
1:K:297:GLN:HE22	1:a:362:PRO:HD2	1.70	0.56
1:K:466:LEU:HD21	1:a:463:LYS:HD2	1.88	0.56
1:V:362:PRO:HD2	1:X:297:GLN:HE22	1.70	0.56
1:V:463:LYS:HD2	1:X:466:LEU:HD21	1.88	0.56
1:f:97:ASN:OD1	1:f:454:ILE:N	2.35	0.56
1:f:297:GLN:HE22	1:h:362:PRO:HD2	1.70	0.56
1:l:97:ASN:OD1	1:l:454:ILE:N	2.35	0.56
1:o:297:GLN:HE22	1:p:362:PRO:HD2	1.70	0.56
1:o:466:LEU:HD21	1:p:463:LYS:HD2	1.88	0.56
1:3:310:THR:HB	1:4:275:ARG:H	1.69	0.56
1:3:362:PRO:HD2	1:4:297:GLN:HE22	1.70	0.56
1:3:463:LYS:HD2	1:4:466:LEU:HD21	1.88	0.56
1:5:191:GLN:HE22	1:8:544:THR:HG21	1.71	0.56
1:5:297:GLN:HE22	1:6:362:PRO:HD2	1.71	0.56
1:6:490:ILE:HD12	1:6:504:LEU:HD21	1.86	0.56
1:8:304:LEU:HD22	1:8:363:VAL:HG21	1.86	0.56
1:E:304:LEU:HD22	1:E:363:VAL:HG21	1.86	0.56
1:K:275:ARG:H	1:a:310:THR:HB	1.69	0.56
1:O:466:LEU:HD21	1:m:463:LYS:HD2	1.88	0.56
1:O:544:THR:HG21	1:P:191:GLN:HE22	1.71	0.56
1:T:463:LYS:HD2	1:l:466:LEU:HD21	1.88	0.56
1:W:490:ILE:HD12	1:W:504:LEU:HD21	1.86	0.56
1:Z:304:LEU:HD22	1:Z:363:VAL:HG21	1.86	0.56
1:Z:463:LYS:HD2	1:3:466:LEU:HD21	1.88	0.56
1:a:466:LEU:HD21	1:8:463:LYS:HD2	1.88	0.56
1:b:97:ASN:OD1	1:b:454:ILE:N	2.35	0.56
1:b:544:THR:HG21	1:o:191:GLN:HE22	1.71	0.56
1:j:191:GLN:HE22	1:l:544:THR:HG21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:490:ILE:HD12	1:s:504:LEU:HD21	1.86	0.56
1:t:463:LYS:HD2	1:v:466:LEU:HD21	1.88	0.56
1:t:544:THR:HG21	1:6:191:GLN:HE22	1.71	0.56
1:A:297:GLN:HE22	1:G:362:PRO:HD2	1.71	0.56
1:A:544:THR:HG21	1:E:191:GLN:HE22	1.71	0.56
1:O:490:ILE:HD12	1:O:504:LEU:HD21	1.86	0.56
1:R:191:GLN:HE22	1:V:544:THR:HG21	1.71	0.56
1:U:490:ILE:HD12	1:U:504:LEU:HD21	1.86	0.56
1:X:191:GLN:HE22	1:f:544:THR:HG21	1.71	0.56
1:d:490:ILE:HD12	1:d:504:LEU:HD21	1.86	0.56
1:l:490:ILE:HD12	1:l:504:LEU:HD21	1.86	0.56
1:q:362:PRO:HD2	1:s:297:GLN:HE22	1.70	0.56
1:r:297:GLN:HE22	1:s:362:PRO:HD2	1.70	0.56
1:t:362:PRO:HD2	1:v:297:GLN:HE22	1.70	0.56
1:w:304:LEU:HD22	1:w:363:VAL:HG21	1.86	0.56
1:1:466:LEU:HD21	1:2:463:LYS:HD2	1.88	0.56
1:B:466:LEU:HD21	1:J:463:LYS:HD2	1.88	0.56
1:E:463:LYS:HD2	1:F:466:LEU:HD21	1.88	0.56
1:G:466:LEU:HD21	1:I:463:LYS:HD2	1.88	0.56
1:H:362:PRO:HD2	1:Y:297:GLN:HE22	1.71	0.56
1:I:304:LEU:HD22	1:I:363:VAL:HG21	1.86	0.56
1:J:466:LEU:HD21	1:L:463:LYS:HD2	1.88	0.56
1:O:97:ASN:OD1	1:O:454:ILE:N	2.35	0.56
1:S:297:GLN:HE22	1:U:362:PRO:HD2	1.70	0.56
1:S:544:THR:HG21	1:d:191:GLN:HE22	1.71	0.56
1:V:490:ILE:HD12	1:V:504:LEU:HD21	1.86	0.56
1:f:463:LYS:HD2	1:g:466:LEU:HD21	1.86	0.56
1:m:544:THR:HG21	1:s:191:GLN:HE22	1.71	0.56
1:n:191:GLN:HE22	1:r:544:THR:HG21	1.71	0.56
1:p:544:THR:HG21	1:q:191:GLN:HE22	1.71	0.56
1:v:544:THR:HG21	1:w:191:GLN:HE22	1.71	0.56
1:w:463:LYS:HD2	1:y:466:LEU:HD21	1.88	0.56
1:z:463:LYS:HD2	1:2:466:LEU:HD21	1.88	0.56
1:5:362:PRO:HD2	1:7:297:GLN:HE22	1.71	0.56
1:A:191:GLN:HE22	1:B:544:THR:HG21	1.71	0.56
1:C:297:GLN:HE22	1:b:362:PRO:HD2	1.70	0.56
1:N:544:THR:HG21	1:m:191:GLN:HE22	1.71	0.56
1:O:297:GLN:HE22	1:m:362:PRO:HD2	1.70	0.56
1:R:362:PRO:HD2	1:U:297:GLN:HE22	1.70	0.56
1:T:191:GLN:HE22	1:i:544:THR:HG21	1.71	0.56
1:T:544:THR:HG21	1:U:191:GLN:HE22	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:297:GLN:HE22	1:e:362:PRO:HD2	1.70	0.56
1:a:490:ILE:HD12	1:a:504:LEU:HD21	1.86	0.56
1:c:297:GLN:HE22	1:o:362:PRO:HD2	1.70	0.56
1:n:490:ILE:HD12	1:n:504:LEU:HD21	1.86	0.56
1:p:490:ILE:HD12	1:p:504:LEU:HD21	1.86	0.56
1:r:191:GLN:HE22	1:x:544:THR:HG21	1.71	0.56
1:t:466:LEU:HD21	1:u:463:LYS:HD2	1.88	0.56
1:v:191:GLN:HE22	1:l:544:THR:HG21	1.71	0.56
1:z:466:LEU:HD21	1:l:463:LYS:HD2	1.88	0.56
1:6:297:GLN:HE22	1:7:362:PRO:HD2	1.71	0.56
1:A:362:PRO:HD2	1:I:297:GLN:HE22	1.71	0.56
1:B:463:LYS:HD2	1:L:466:LEU:HD21	1.88	0.56
1:M:191:GLN:HE22	1:c:544:THR:HG21	1.71	0.56
1:T:362:PRO:HD2	1:l:297:GLN:HE22	1.70	0.56
1:T:466:LEU:HD21	1:d:463:LYS:HD2	1.88	0.56
1:W:297:GLN:HE22	1:Y:362:PRO:HD2	1.71	0.56
1:c:362:PRO:HD2	1:p:297:GLN:HE22	1.70	0.56
1:c:463:LYS:HD2	1:p:466:LEU:HD21	1.88	0.56
1:g:544:THR:HG21	1:l:191:GLN:HE22	1.71	0.56
1:i:362:PRO:HD2	1:k:297:GLN:HE22	1.71	0.56
1:u:304:LEU:HD22	1:u:363:VAL:HG21	1.86	0.56
1:K:544:THR:HG21	1:L:191:GLN:HE22	1.71	0.56
1:X:362:PRO:HD2	1:e:297:GLN:HE22	1.70	0.56
1:j:544:THR:HG21	1:x:191:GLN:HE22	1.71	0.56
1:u:297:GLN:HE22	1:v:362:PRO:HD2	1.71	0.56
1:x:466:LEU:HD21	1:y:463:LYS:HD2	1.88	0.56
1:3:490:ILE:HD12	1:3:504:LEU:HD21	1.86	0.56
1:5:463:LYS:HD2	1:7:466:LEU:HD21	1.88	0.56
1:C:463:LYS:HD2	1:M:466:LEU:HD21	1.88	0.56
1:F:463:LYS:HD2	1:Q:466:LEU:HD21	1.87	0.56
1:H:463:LYS:HD2	1:Y:466:LEU:HD21	1.88	0.56
1:I:544:THR:HG21	1:J:191:GLN:HE22	1.71	0.56
1:K:392:ARG:NH2	1:K:446:THR:HG21	2.21	0.56
1:R:297:GLN:HE22	1:S:362:PRO:HD2	1.70	0.56
1:V:466:LEU:HD21	1:e:463:LYS:HD2	1.88	0.56
1:Y:544:THR:HG21	1:4:191:GLN:HE22	1.71	0.56
1:e:544:THR:HG21	1:h:191:GLN:HE22	1.71	0.56
1:m:466:LEU:HD21	1:n:463:LYS:HD2	1.88	0.56
1:q:297:GLN:HE22	1:r:362:PRO:HD2	1.70	0.56
1:u:544:THR:HG21	1:2:191:GLN:HE22	1.71	0.56
1:z:191:GLN:HE22	1:4:544:THR:HG21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:191:GLN:HE22	1:C:544:THR:HG21	1.71	0.55
1:D:297:GLN:HE22	1:N:362:PRO:HD2	1.71	0.55
1:G:392:ARG:NH2	1:G:446:THR:HG21	2.22	0.55
1:P:544:THR:HG21	1:Q:191:GLN:HE22	1.71	0.55
1:t:392:ARG:NH2	1:t:446:THR:HG21	2.22	0.55
1:4:392:ARG:NH2	1:4:446:THR:HG21	2.21	0.55
1:K:191:GLN:HE22	1:7:544:THR:HG21	1.71	0.55
1:O:191:GLN:HE22	1:d:544:THR:HG21	1.71	0.55
1:V:191:GLN:HE22	1:W:544:THR:HG21	1.71	0.55
1:d:297:GLN:HE22	1:l:362:PRO:HD2	1.70	0.55
1:f:392:ARG:NH2	1:f:446:THR:HG21	2.22	0.55
1:l:191:GLN:HE22	1:n:544:THR:HG21	1.71	0.55
1:B:362:PRO:HD2	1:L:297:GLN:HE22	1.70	0.55
1:C:191:GLN:HE22	1:D:544:THR:HG21	1.71	0.55
1:F:544:THR:HG21	1:G:191:GLN:HE22	1.71	0.55
1:L:392:ARG:NH2	1:L:446:THR:HG21	2.22	0.55
1:O:463:LYS:HD2	1:n:466:LEU:HD21	1.88	0.55
1:P:392:ARG:NH2	1:P:446:THR:HG21	2.22	0.55
1:X:392:ARG:NH2	1:X:446:THR:HG21	2.22	0.55
1:b:392:ARG:NH2	1:b:446:THR:HG21	2.22	0.55
1:g:362:PRO:HD2	1:h:297:GLN:HE22	1.72	0.55
1:j:392:ARG:NH2	1:j:446:THR:HG21	2.22	0.55
1:k:97:ASN:OD1	1:k:454:ILE:N	2.35	0.55
1:r:392:ARG:NH2	1:r:446:THR:HG21	2.22	0.55
1:t:191:GLN:HE22	1:y:544:THR:HG21	1.71	0.55
1:z:392:ARG:NH2	1:z:446:THR:HG21	2.22	0.55
1:D:466:LEU:HD21	1:N:463:LYS:HD2	1.88	0.55
1:K:362:PRO:HD2	1:8:297:GLN:HE22	1.70	0.55
1:O:362:PRO:HD2	1:n:297:GLN:HE22	1.70	0.55
1:S:392:ARG:NH2	1:S:446:THR:HG21	2.22	0.55
1:T:392:ARG:NH2	1:T:446:THR:HG21	2.21	0.55
1:d:466:LEU:HD21	1:l:463:LYS:HD2	1.88	0.55
1:i:463:LYS:HD2	1:k:466:LEU:HD21	1.88	0.55
1:i:466:LEU:HD21	1:j:463:LYS:HD2	1.88	0.55
1:o:392:ARG:NH2	1:o:446:THR:HG21	2.22	0.55
1:p:191:GLN:HE22	1:6:544:THR:HG21	1.71	0.55
1:y:392:ARG:NH2	1:y:446:THR:HG21	2.22	0.55
1:1:392:ARG:NH2	1:1:446:THR:HG21	2.22	0.55
1:E:297:GLN:HE22	1:Q:362:PRO:HD2	1.70	0.55
1:E:392:ARG:NH2	1:E:446:THR:HG21	2.22	0.55
1:F:392:ARG:NH2	1:F:446:THR:HG21	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:466:LEU:HD21	1:P:463:LYS:HD2	1.88	0.55
1:R:463:LYS:HD2	1:U:466:LEU:HD21	1.88	0.55
1:R:466:LEU:HD21	1:S:463:LYS:HD2	1.88	0.55
1:a:392:ARG:NH2	1:a:446:THR:HG21	2.22	0.55
1:c:466:LEU:HD21	1:o:463:LYS:HD2	1.88	0.55
1:d:392:ARG:NH2	1:d:446:THR:HG21	2.22	0.55
1:f:191:GLN:HE22	1:z:544:THR:HG21	1.71	0.55
1:m:392:ARG:NH2	1:m:446:THR:HG21	2.21	0.55
1:q:466:LEU:HD21	1:r:463:LYS:HD2	1.88	0.55
1:w:297:GLN:HE22	1:x:362:PRO:HD2	1.70	0.55
1:z:297:GLN:HE22	1:l:362:PRO:HD2	1.70	0.55
1:3:392:ARG:NH2	1:3:446:THR:HG21	2.22	0.55
1:B:297:GLN:HE22	1:J:362:PRO:HD2	1.70	0.55
1:B:392:ARG:NH2	1:B:446:THR:HG21	2.22	0.55
1:Q:544:THR:HG21	1:S:191:GLN:HE22	1.71	0.55
1:V:392:ARG:NH2	1:V:446:THR:HG21	2.22	0.55
1:Z:191:GLN:HE22	1:a:544:THR:HG21	1.71	0.55
1:n:392:ARG:NH2	1:n:446:THR:HG21	2.22	0.55
1:p:392:ARG:NH2	1:p:446:THR:HG21	2.22	0.55
1:q:463:LYS:HD2	1:s:466:LEU:HD21	1.88	0.55
1:F:191:GLN:HE22	1:R:544:THR:HG21	1.71	0.55
1:X:463:LYS:HD2	1:e:466:LEU:HD21	1.88	0.55
1:Y:392:ARG:NH2	1:Y:446:THR:HG21	2.22	0.55
1:Z:297:GLN:HE22	1:4:362:PRO:HD2	1.70	0.55
1:i:297:GLN:HE22	1:j:362:PRO:HD2	1.71	0.55
1:i:392:ARG:NH2	1:i:446:THR:HG21	2.22	0.55
1:q:544:THR:HG21	1:y:191:GLN:HE22	1.71	0.55
1:w:392:ARG:NH2	1:w:446:THR:HG21	2.22	0.55
1:w:466:LEU:HD21	1:x:463:LYS:HD2	1.88	0.55
1:l:297:GLN:HE22	1:2:362:PRO:HD2	1.70	0.55
1:H:466:LEU:HD21	1:W:463:LYS:HD2	1.88	0.55
1:J:544:THR:HG21	1:a:191:GLN:HE22	1.71	0.55
1:K:463:LYS:HD2	1:8:466:LEU:HD21	1.88	0.55
1:L:544:THR:HG21	1:b:191:GLN:HE22	1.71	0.55
1:N:297:GLN:HE22	1:P:362:PRO:HD2	1.71	0.55
1:N:392:ARG:NH2	1:N:446:THR:HG21	2.22	0.55
1:r:466:LEU:HD21	1:s:463:LYS:HD2	1.88	0.55
1:y:97:ASN:OD1	1:y:454:ILE:N	2.35	0.55
1:3:544:THR:HG21	1:8:191:GLN:HE22	1.71	0.55
1:5:466:LEU:HD21	1:6:463:LYS:HD2	1.88	0.55
1:7:392:ARG:NH2	1:7:446:THR:HG21	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:191:GLN:HE22	1:E:544:THR:HG21	1.71	0.55
1:E:466:LEU:HD21	1:Q:463:LYS:HD2	1.88	0.55
1:M:463:LYS:HD2	1:b:466:LEU:HD21	1.88	0.55
1:S:466:LEU:HD21	1:U:463:LYS:HD2	1.88	0.55
1:o:544:THR:HG21	1:7:191:GLN:HE22	1.71	0.55
1:x:297:GLN:HE22	1:y:362:PRO:HD2	1.71	0.55
1:2:544:THR:HG21	1:3:191:GLN:HE22	1.71	0.55
1:F:97:ASN:OD1	1:F:454:ILE:N	2.35	0.55
1:O:392:ARG:NH2	1:O:446:THR:HG21	2.22	0.55
1:X:544:THR:HG21	1:Y:191:GLN:HE22	1.71	0.55
1:Z:466:LEU:HD21	1:4:463:LYS:HD2	1.88	0.55
1:c:191:GLN:HE22	1:s:544:THR:HG21	1.71	0.55
1:A:215:ILE:HD11	1:A:329:PRO:HG2	1.90	0.54
1:h:544:THR:HG21	1:i:191:GLN:HE22	1.71	0.54
1:k:191:GLN:HE22	1:w:544:THR:HG21	1.71	0.54
1:l:392:ARG:NH2	1:l:446:THR:HG21	2.22	0.54
1:A:463:LYS:HD2	1:I:466:LEU:HD21	1.87	0.54
1:E:215:ILE:HD11	1:E:329:PRO:HG2	1.90	0.54
1:H:544:THR:HG21	1:I:191:GLN:HE22	1.71	0.54
1:M:544:THR:HG21	1:N:191:GLN:HE22	1.71	0.54
1:U:392:ARG:NH2	1:U:446:THR:HG21	2.22	0.54
1:U:544:THR:HG21	1:e:191:GLN:HE22	1.71	0.54
1:V:215:ILE:HD11	1:V:329:PRO:HG2	1.90	0.54
1:f:466:LEU:HD21	1:h:463:LYS:HD2	1.88	0.54
1:p:215:ILE:HD11	1:p:329:PRO:HG2	1.90	0.54
1:v:215:ILE:HD11	1:v:329:PRO:HG2	1.90	0.54
1:w:215:ILE:HD11	1:w:329:PRO:HG2	1.90	0.54
1:D:215:ILE:HD11	1:D:329:PRO:HG2	1.89	0.54
1:D:362:PRO:HD2	1:P:297:GLN:HE22	1.71	0.54
1:F:362:PRO:HD2	1:Q:297:GLN:HE22	1.71	0.54
1:G:215:ILE:HD11	1:G:329:PRO:HG2	1.90	0.54
1:T:215:ILE:HD11	1:T:329:PRO:HG2	1.90	0.54
1:Y:215:ILE:HD11	1:Y:329:PRO:HG2	1.90	0.54
1:f:215:ILE:HD11	1:f:329:PRO:HG2	1.90	0.54
1:k:215:ILE:HD11	1:k:329:PRO:HG2	1.90	0.54
1:t:215:ILE:HD11	1:t:329:PRO:HG2	1.90	0.54
1:u:191:GLN:HE22	1:5:544:THR:HG21	1.71	0.54
1:u:466:LEU:HD21	1:v:463:LYS:HD2	1.87	0.54
1:x:215:ILE:HD11	1:x:329:PRO:HG2	1.90	0.54
1:7:215:ILE:HD11	1:7:329:PRO:HG2	1.90	0.54
1:Q:215:ILE:HD11	1:Q:329:PRO:HG2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:215:ILE:HD11	1:U:329:PRO:HG2	1.90	0.54
1:b:215:ILE:HD11	1:b:329:PRO:HG2	1.90	0.54
1:j:297:GLN:HE22	1:k:362:PRO:HD2	1.71	0.54
1:m:215:ILE:HD11	1:m:329:PRO:HG2	1.90	0.54
1:s:215:ILE:HD11	1:s:329:PRO:HG2	1.90	0.54
1:A:392:ARG:NH2	1:A:446:THR:HG21	2.22	0.54
1:C:466:LEU:HD21	1:b:463:LYS:HD2	1.88	0.54
1:h:392:ARG:NH2	1:h:446:THR:HG21	2.21	0.54
1:s:392:ARG:NH2	1:s:446:THR:HG21	2.22	0.54
1:u:392:ARG:NH2	1:u:446:THR:HG21	2.22	0.54
1:M:392:ARG:NH2	1:M:446:THR:HG21	2.22	0.54
1:N:215:ILE:HD11	1:N:329:PRO:HG2	1.90	0.54
1:W:466:LEU:HD21	1:Y:463:LYS:HD2	1.88	0.54
1:i:215:ILE:HD11	1:i:329:PRO:HG2	1.90	0.54
1:u:215:ILE:HD11	1:u:329:PRO:HG2	1.90	0.54
1:6:392:ARG:NH2	1:6:446:THR:HG21	2.22	0.54
1:I:215:ILE:HD11	1:I:329:PRO:HG2	1.90	0.54
1:I:392:ARG:NH2	1:I:446:THR:HG21	2.22	0.54
1:W:392:ARG:NH2	1:W:446:THR:HG21	2.22	0.54
1:g:97:ASN:OD1	1:g:454:ILE:N	2.34	0.54
1:g:191:GLN:HE22	1:k:544:THR:HG21	1.72	0.54
1:g:215:ILE:HD11	1:g:329:PRO:HG2	1.90	0.54
1:v:392:ARG:NH2	1:v:446:THR:HG21	2.22	0.54
1:2:392:ARG:NH2	1:2:446:THR:HG21	2.22	0.54
1:3:215:ILE:HD11	1:3:329:PRO:HG2	1.90	0.54
1:6:466:LEU:HD21	1:7:463:LYS:HD2	1.88	0.54
1:C:215:ILE:HD11	1:C:329:PRO:HG2	1.90	0.54
1:S:215:ILE:HD11	1:S:329:PRO:HG2	1.90	0.54
1:c:215:ILE:HD11	1:c:329:PRO:HG2	1.90	0.54
1:c:392:ARG:NH2	1:c:446:THR:HG21	2.22	0.54
1:k:392:ARG:NH2	1:k:446:THR:HG21	2.22	0.54
1:l:215:ILE:HD11	1:l:329:PRO:HG2	1.89	0.54
1:n:97:ASN:OD1	1:n:454:ILE:N	2.35	0.54
1:z:215:ILE:HD11	1:z:329:PRO:HG2	1.90	0.54
1:D:392:ARG:NH2	1:D:446:THR:HG21	2.22	0.54
1:J:392:ARG:NH2	1:J:446:THR:HG21	2.22	0.54
1:L:215:ILE:HD11	1:L:329:PRO:HG2	1.90	0.54
1:O:215:ILE:HD11	1:O:329:PRO:HG2	1.89	0.54
1:a:215:ILE:HD11	1:a:329:PRO:HG2	1.90	0.54
1:e:215:ILE:HD11	1:e:329:PRO:HG2	1.90	0.54
1:e:392:ARG:NH2	1:e:446:THR:HG21	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:215:ILE:HD11	1:6:329:PRO:HG2	1.89	0.54
1:r:215:ILE:HD11	1:r:329:PRO:HG2	1.90	0.54
1:M:215:ILE:HD11	1:M:329:PRO:HG2	1.90	0.53
1:W:215:ILE:HD11	1:W:329:PRO:HG2	1.89	0.53
1:d:97:ASN:OD1	1:d:454:ILE:N	2.35	0.53
1:g:392:ARG:NH2	1:g:446:THR:HG21	2.22	0.53
1:2:215:ILE:HD11	1:2:329:PRO:HG2	1.90	0.53
1:C:392:ARG:NH2	1:C:446:THR:HG21	2.22	0.53
1:J:215:ILE:HD11	1:J:329:PRO:HG2	1.90	0.53
1:h:215:ILE:HD11	1:h:329:PRO:HG2	1.90	0.53
1:o:215:ILE:HD11	1:o:329:PRO:HG2	1.90	0.53
1:5:392:ARG:NH2	1:5:446:THR:HG21	2.22	0.53
1:H:392:ARG:NH2	1:H:446:THR:HG21	2.22	0.53
1:X:215:ILE:HD11	1:X:329:PRO:HG2	1.90	0.53
1:f:362:PRO:HD2	1:g:297:GLN:HE22	1.73	0.53
1:S:379:SER:OG	1:S:451:ASP:OD2	2.26	0.53
1:Q:392:ARG:NH2	1:Q:446:THR:HG21	2.22	0.53
1:8:392:ARG:NH2	1:8:446:THR:HG21	2.22	0.53
1:A:307:ILE:HG12	1:I:408:ASP:O	2.09	0.53
1:B:215:ILE:HD11	1:B:329:PRO:HG2	1.90	0.53
1:Z:392:ARG:NH2	1:Z:446:THR:HG21	2.22	0.53
1:n:215:ILE:HD11	1:n:329:PRO:HG2	1.90	0.53
1:u:408:ASP:O	1:v:307:ILE:HG12	2.09	0.53
1:Q:527:ARG:NH1	1:R:544:THR:OG1	2.38	0.53
1:x:392:ARG:NH2	1:x:446:THR:HG21	2.22	0.53
1:B:544:THR:OG1	1:I:527:ARG:NH1	2.38	0.53
1:d:215:ILE:HD11	1:d:329:PRO:HG2	1.90	0.53
1:q:544:THR:OG1	1:x:527:ARG:NH1	2.38	0.53
1:1:215:ILE:HD11	1:1:329:PRO:HG2	1.90	0.53
1:Q:544:THR:OG1	1:R:527:ARG:NH1	2.38	0.53
1:q:527:ARG:NH1	1:x:544:THR:OG1	2.38	0.53
1:u:527:ARG:NH1	1:1:544:THR:OG1	2.38	0.53
1:H:215:ILE:HD11	1:H:329:PRO:HG2	1.90	0.52
1:K:215:ILE:HD11	1:K:329:PRO:HG2	1.90	0.52
1:R:392:ARG:NH2	1:R:446:THR:HG21	2.22	0.52
1:Z:215:ILE:HD11	1:Z:329:PRO:HG2	1.89	0.52
1:b:527:ARG:HH11	1:c:544:THR:HG1	1.57	0.52
1:4:215:ILE:HD11	1:4:329:PRO:HG2	1.90	0.52
1:F:215:ILE:HD11	1:F:329:PRO:HG2	1.90	0.52
1:e:544:THR:HG1	1:f:527:ARG:HH11	1.57	0.52
1:f:307:ILE:HG12	1:g:408:ASP:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:215:ILE:HD11	1:q:329:PRO:HG2	1.89	0.52
1:y:215:ILE:HD11	1:y:329:PRO:HG2	1.90	0.52
1:8:215:ILE:HD11	1:8:329:PRO:HG2	1.89	0.52
1:F:307:ILE:HG12	1:Q:408:ASP:O	2.09	0.52
1:5:215:ILE:HD11	1:5:329:PRO:HG2	1.90	0.52
1:q:392:ARG:NH2	1:q:446:THR:HG21	2.22	0.52
1:P:215:ILE:HD11	1:P:329:PRO:HG2	1.90	0.52
1:R:215:ILE:HD11	1:R:329:PRO:HG2	1.90	0.52
1:e:268:THR:O	1:e:288:ARG:NH1	2.43	0.52
1:j:215:ILE:HD11	1:j:329:PRO:HG2	1.90	0.52
1:J:544:THR:OG1	1:K:527:ARG:NH1	2.39	0.52
1:2:544:THR:OG1	1:4:527:ARG:NH1	2.39	0.52
1:J:527:ARG:NH1	1:K:544:THR:OG1	2.39	0.52
1:g:527:ARG:NH1	1:z:544:THR:OG1	2.38	0.52
1:G:408:ASP:O	1:I:307:ILE:HG12	2.10	0.52
1:O:307:ILE:HG12	1:n:408:ASP:O	2.10	0.52
1:d:408:ASP:O	1:l:307:ILE:HG12	2.10	0.52
1:t:408:ASP:O	1:u:307:ILE:HG12	2.10	0.52
1:u:544:THR:OG1	1:1:527:ARG:NH1	2.38	0.52
1:D:408:ASP:O	1:N:307:ILE:HG12	2.10	0.52
1:G:252:ASP:O	1:G:564:ARG:NH2	2.43	0.52
1:H:408:ASP:O	1:W:307:ILE:HG12	2.10	0.52
1:i:307:ILE:HG12	1:k:408:ASP:O	2.10	0.52
1:5:408:ASP:O	1:6:307:ILE:HG12	2.10	0.52
1:J:408:ASP:O	1:L:307:ILE:HG12	2.10	0.52
1:N:408:ASP:O	1:P:307:ILE:HG12	2.10	0.52
1:f:408:ASP:O	1:h:307:ILE:HG12	2.10	0.52
1:i:408:ASP:O	1:j:307:ILE:HG12	2.10	0.52
1:t:252:ASP:O	1:t:564:ARG:NH2	2.43	0.52
1:z:307:ILE:HG12	1:2:408:ASP:O	2.10	0.52
1:2:527:ARG:NH1	1:4:544:THR:OG1	2.39	0.52
1:B:408:ASP:O	1:J:307:ILE:HG12	2.10	0.51
1:B:527:ARG:NH1	1:I:544:THR:OG1	2.38	0.51
1:C:252:ASP:O	1:C:564:ARG:NH2	2.43	0.51
1:D:307:ILE:HG12	1:P:408:ASP:O	2.10	0.51
1:E:408:ASP:O	1:Q:307:ILE:HG12	2.10	0.51
1:I:300:PRO:HB3	1:I:401:TRP:CD1	2.46	0.51
1:M:307:ILE:HG12	1:b:408:ASP:O	2.10	0.51
1:N:300:PRO:HB3	1:N:401:TRP:CD1	2.46	0.51
1:P:252:ASP:O	1:P:564:ARG:NH2	2.44	0.51
1:R:307:ILE:HG12	1:U:408:ASP:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:252:ASP:O	1:T:564:ARG:NH2	2.44	0.51
1:T:408:ASP:O	1:d:307:ILE:HG12	2.10	0.51
1:V:252:ASP:O	1:V:564:ARG:NH2	2.43	0.51
1:d:300:PRO:HB3	1:d:401:TRP:CD1	2.46	0.51
1:g:252:ASP:O	1:g:564:ARG:NH2	2.44	0.51
1:i:300:PRO:HB3	1:i:401:TRP:CD1	2.46	0.51
1:i:544:THR:OG1	1:l:527:ARG:NH1	2.39	0.51
1:j:252:ASP:O	1:j:564:ARG:NH2	2.44	0.51
1:j:408:ASP:O	1:k:307:ILE:HG12	2.10	0.51
1:k:252:ASP:O	1:k:564:ARG:NH2	2.44	0.51
1:m:252:ASP:O	1:m:564:ARG:NH2	2.44	0.51
1:m:408:ASP:O	1:n:307:ILE:HG12	2.10	0.51
1:n:252:ASP:O	1:n:564:ARG:NH2	2.44	0.51
1:n:300:PRO:HB3	1:n:401:TRP:CD1	2.46	0.51
1:o:311:GLN:O	1:o:312:SER:OG	2.25	0.51
1:q:307:ILE:HG12	1:s:408:ASP:O	2.10	0.51
1:u:300:PRO:HB3	1:u:401:TRP:CD1	2.46	0.51
1:w:278:TYR:HB3	1:w:422:GLY:HA2	1.93	0.51
1:1:408:ASP:O	1:2:307:ILE:HG12	2.10	0.51
1:3:252:ASP:O	1:3:564:ARG:NH2	2.44	0.51
1:D:252:ASP:O	1:D:564:ARG:NH2	2.44	0.51
1:H:307:ILE:HG12	1:Y:408:ASP:O	2.10	0.51
1:K:408:ASP:O	1:a:307:ILE:HG12	2.10	0.51
1:O:268:THR:O	1:O:288:ARG:NH1	2.43	0.51
1:O:408:ASP:O	1:m:307:ILE:HG12	2.10	0.51
1:Q:252:ASP:O	1:Q:564:ARG:NH2	2.44	0.51
1:Q:300:PRO:HB3	1:Q:401:TRP:CD1	2.46	0.51
1:S:252:ASP:O	1:S:564:ARG:NH2	2.44	0.51
1:S:408:ASP:O	1:U:307:ILE:HG12	2.10	0.51
1:T:307:ILE:HG12	1:l:408:ASP:O	2.10	0.51
1:V:408:ASP:O	1:e:307:ILE:HG12	2.10	0.51
1:X:311:GLN:O	1:X:312:SER:OG	2.25	0.51
1:a:252:ASP:O	1:a:564:ARG:NH2	2.44	0.51
1:d:252:ASP:O	1:d:564:ARG:NH2	2.44	0.51
1:d:544:THR:OG1	1:n:527:ARG:NH1	2.38	0.51
1:p:252:ASP:O	1:p:564:ARG:NH2	2.43	0.51
1:q:300:PRO:HB3	1:q:401:TRP:CD1	2.46	0.51
1:r:252:ASP:O	1:r:564:ARG:NH2	2.44	0.51
1:v:300:PRO:HB3	1:v:401:TRP:CD1	2.46	0.51
1:w:300:PRO:HB3	1:w:401:TRP:CD1	2.46	0.51
1:w:408:ASP:O	1:x:307:ILE:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:252:ASP:O	1:x:564:ARG:NH2	2.44	0.51
1:z:252:ASP:O	1:z:564:ARG:NH2	2.43	0.51
1:z:278:TYR:HB3	1:z:422:GLY:HA2	1.93	0.51
1:3:300:PRO:HB3	1:3:401:TRP:CD1	2.46	0.51
1:3:307:ILE:HG12	1:4:408:ASP:O	2.10	0.51
1:5:307:ILE:HG12	1:7:408:ASP:O	2.10	0.51
1:A:300:PRO:HB3	1:A:401:TRP:CD1	2.46	0.51
1:E:278:TYR:HB3	1:E:422:GLY:HA2	1.93	0.51
1:E:300:PRO:HB3	1:E:401:TRP:CD1	2.46	0.51
1:E:359:ASP:N	1:E:359:ASP:OD1	2.44	0.51
1:L:252:ASP:O	1:L:564:ARG:NH2	2.44	0.51
1:L:278:TYR:HB3	1:L:422:GLY:HA2	1.93	0.51
1:N:252:ASP:O	1:N:564:ARG:NH2	2.44	0.51
1:R:300:PRO:HB3	1:R:401:TRP:CD1	2.46	0.51
1:T:278:TYR:HB3	1:T:422:GLY:HA2	1.93	0.51
1:W:252:ASP:O	1:W:564:ARG:NH2	2.44	0.51
1:Z:307:ILE:HG12	1:3:408:ASP:O	2.10	0.51
1:a:300:PRO:HB3	1:a:401:TRP:CD1	2.46	0.51
1:b:252:ASP:O	1:b:564:ARG:NH2	2.44	0.51
1:b:278:TYR:HB3	1:b:422:GLY:HA2	1.93	0.51
1:b:300:PRO:HB3	1:b:401:TRP:CD1	2.46	0.51
1:c:307:ILE:HG12	1:p:408:ASP:O	2.10	0.51
1:f:252:ASP:O	1:f:564:ARG:NH2	2.44	0.51
1:f:278:TYR:HB3	1:f:422:GLY:HA2	1.93	0.51
1:f:300:PRO:HB3	1:f:401:TRP:CD1	2.46	0.51
1:m:278:TYR:HB3	1:m:422:GLY:HA2	1.93	0.51
1:r:408:ASP:O	1:s:307:ILE:HG12	2.10	0.51
1:t:307:ILE:HG12	1:v:408:ASP:O	2.10	0.51
1:x:300:PRO:HB3	1:x:401:TRP:CD1	2.46	0.51
1:x:408:ASP:O	1:y:307:ILE:HG12	2.10	0.51
1:1:252:ASP:O	1:1:564:ARG:NH2	2.44	0.51
1:4:278:TYR:HB3	1:4:422:GLY:HA2	1.93	0.51
1:6:252:ASP:O	1:6:564:ARG:NH2	2.44	0.51
1:A:408:ASP:O	1:G:307:ILE:HG12	2.10	0.51
1:B:252:ASP:O	1:B:564:ARG:NH2	2.44	0.51
1:B:300:PRO:HB3	1:B:401:TRP:CD1	2.46	0.51
1:C:307:ILE:HG12	1:M:408:ASP:O	2.10	0.51
1:K:278:TYR:HB3	1:K:422:GLY:HA2	1.93	0.51
1:K:300:PRO:HB3	1:K:401:TRP:CD1	2.46	0.51
1:N:278:TYR:HB3	1:N:422:GLY:HA2	1.93	0.51
1:N:544:THR:OG1	1:O:527:ARG:NH1	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:300:PRO:HB3	1:X:401:TRP:CD1	2.46	0.51
1:a:408:ASP:O	1:8:307:ILE:HG12	2.10	0.51
1:d:527:ARG:NH1	1:n:544:THR:OG1	2.38	0.51
1:e:252:ASP:O	1:e:564:ARG:NH2	2.44	0.51
1:h:544:THR:OG1	1:k:527:ARG:NH1	2.38	0.51
1:i:252:ASP:O	1:i:564:ARG:NH2	2.44	0.51
1:i:278:TYR:HB3	1:i:422:GLY:HA2	1.93	0.51
1:l:268:THR:O	1:l:288:ARG:NH1	2.43	0.51
1:p:41:THR:HG1	1:p:129:ASN:H	1.58	0.51
1:w:359:ASP:OD1	1:w:359:ASP:N	2.44	0.51
1:1:300:PRO:HB3	1:1:401:TRP:CD1	2.46	0.51
1:2:252:ASP:O	1:2:564:ARG:NH2	2.44	0.51
1:C:408:ASP:O	1:b:307:ILE:HG12	2.10	0.51
1:E:252:ASP:O	1:E:564:ARG:NH2	2.43	0.51
1:H:252:ASP:O	1:H:564:ARG:NH2	2.44	0.51
1:J:252:ASP:O	1:J:564:ARG:NH2	2.44	0.51
1:P:278:TYR:HB3	1:P:422:GLY:HA2	1.93	0.51
1:U:278:TYR:HB3	1:U:422:GLY:HA2	1.93	0.51
1:c:252:ASP:O	1:c:564:ARG:NH2	2.44	0.51
1:o:300:PRO:HB3	1:o:401:TRP:CD1	2.46	0.51
1:s:278:TYR:HB3	1:s:422:GLY:HA2	1.93	0.51
1:v:252:ASP:O	1:v:564:ARG:NH2	2.44	0.51
1:w:252:ASP:O	1:w:564:ARG:NH2	2.43	0.51
1:4:252:ASP:O	1:4:564:ARG:NH2	2.44	0.51
1:4:300:PRO:HB3	1:4:401:TRP:CD1	2.46	0.51
1:6:268:THR:O	1:6:288:ARG:NH1	2.43	0.51
1:A:252:ASP:O	1:A:564:ARG:NH2	2.44	0.51
1:C:300:PRO:HB3	1:C:401:TRP:CD1	2.46	0.51
1:J:300:PRO:HB3	1:J:401:TRP:CD1	2.46	0.51
1:K:252:ASP:O	1:K:564:ARG:NH2	2.44	0.51
1:K:307:ILE:HG12	1:8:408:ASP:O	2.10	0.51
1:M:252:ASP:O	1:M:564:ARG:NH2	2.43	0.51
1:P:300:PRO:HB3	1:P:401:TRP:CD1	2.46	0.51
1:Y:252:ASP:O	1:Y:564:ARG:NH2	2.44	0.51
1:Z:278:TYR:HB3	1:Z:422:GLY:HA2	1.93	0.51
1:c:300:PRO:HB3	1:c:401:TRP:CD1	2.46	0.51
1:e:76:LEU:HD22	1:e:84:TRP:CZ3	2.46	0.51
1:j:278:TYR:HB3	1:j:422:GLY:HA2	1.93	0.51
1:j:300:PRO:HB3	1:j:401:TRP:CD1	2.46	0.51
1:l:278:TYR:HB3	1:l:422:GLY:HA2	1.93	0.51
1:3:278:TYR:HB3	1:3:422:GLY:HA2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:252:ASP:O	1:5:564:ARG:NH2	2.44	0.51
1:8:268:THR:O	1:8:288:ARG:NH1	2.43	0.51
1:8:278:TYR:HB3	1:8:422:GLY:HA2	1.93	0.51
1:O:278:TYR:HB3	1:O:422:GLY:HA2	1.93	0.51
1:P:386:GLU:HG3	1:P:388:LYS:HG3	1.93	0.51
1:R:76:LEU:HD22	1:R:84:TRP:CZ3	2.46	0.51
1:S:76:LEU:HD22	1:S:84:TRP:CZ3	2.46	0.51
1:W:268:THR:O	1:W:288:ARG:NH1	2.43	0.51
1:Z:268:THR:O	1:Z:288:ARG:NH1	2.43	0.51
1:a:278:TYR:HB3	1:a:422:GLY:HA2	1.93	0.51
1:c:76:LEU:HD22	1:c:84:TRP:CZ3	2.46	0.51
1:d:76:LEU:HD22	1:d:84:TRP:CZ3	2.46	0.51
1:d:278:TYR:HB3	1:d:422:GLY:HA2	1.93	0.51
1:e:300:PRO:HB3	1:e:401:TRP:CD1	2.46	0.51
1:g:300:PRO:HB3	1:g:401:TRP:CD1	2.46	0.51
1:r:76:LEU:HD22	1:r:84:TRP:CZ3	2.46	0.51
1:r:293:ASN:HD21	1:s:319:ALA:HA	1.76	0.51
1:w:307:ILE:HG12	1:y:408:ASP:O	2.10	0.51
1:2:300:PRO:HB3	1:2:401:TRP:CD1	2.46	0.51
1:5:278:TYR:HB3	1:5:422:GLY:HA2	1.93	0.51
1:7:252:ASP:O	1:7:564:ARG:NH2	2.44	0.51
1:B:76:LEU:HD22	1:B:84:TRP:CZ3	2.46	0.51
1:D:527:ARG:NH1	1:M:544:THR:OG1	2.39	0.51
1:D:544:THR:OG1	1:M:527:ARG:NH1	2.39	0.51
1:H:278:TYR:HB3	1:H:422:GLY:HA2	1.93	0.51
1:H:300:PRO:HB3	1:H:401:TRP:CD1	2.46	0.51
1:H:319:ALA:HA	1:Y:293:ASN:HD21	1.76	0.51
1:I:69:ASN:ND2	1:I:72:ARG:O	2.44	0.51
1:M:359:ASP:OD1	1:M:359:ASP:N	2.44	0.51
1:Q:268:THR:O	1:Q:288:ARG:NH1	2.43	0.51
1:R:252:ASP:O	1:R:564:ARG:NH2	2.44	0.51
1:S:69:ASN:ND2	1:S:72:ARG:O	2.44	0.51
1:T:319:ALA:HA	1:l:293:ASN:HD21	1.76	0.51
1:V:268:THR:O	1:V:288:ARG:NH1	2.43	0.51
1:V:278:TYR:HB3	1:V:422:GLY:HA2	1.93	0.51
1:X:307:ILE:HG12	1:e:408:ASP:O	2.10	0.51
1:Z:76:LEU:HD22	1:Z:84:TRP:CZ3	2.46	0.51
1:Z:252:ASP:O	1:Z:564:ARG:NH2	2.43	0.51
1:Z:408:ASP:O	1:4:307:ILE:HG12	2.10	0.51
1:a:69:ASN:ND2	1:a:72:ARG:O	2.44	0.51
1:a:76:LEU:HD22	1:a:84:TRP:CZ3	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:293:ASN:HD21	1:h:319:ALA:HA	1.76	0.51
1:h:252:ASP:O	1:h:564:ARG:NH2	2.44	0.51
1:j:386:GLU:HG3	1:j:388:LYS:HG3	1.93	0.51
1:k:300:PRO:HB3	1:k:401:TRP:CD1	2.46	0.51
1:l:300:PRO:HB3	1:l:401:TRP:CD1	2.46	0.51
1:m:148:LEU:O	1:m:149:THR:OG1	2.28	0.51
1:n:76:LEU:HD22	1:n:84:TRP:CZ3	2.46	0.51
1:n:278:TYR:HB3	1:n:422:GLY:HA2	1.93	0.51
1:o:278:TYR:HB3	1:o:422:GLY:HA2	1.93	0.51
1:p:300:PRO:HB3	1:p:401:TRP:CD1	2.46	0.51
1:q:76:LEU:HD22	1:q:84:TRP:CZ3	2.46	0.51
1:q:278:TYR:HB3	1:q:422:GLY:HA2	1.92	0.51
1:r:69:ASN:ND2	1:r:72:ARG:O	2.44	0.51
1:u:69:ASN:ND2	1:u:72:ARG:O	2.44	0.51
1:z:300:PRO:HB3	1:z:401:TRP:CD1	2.46	0.51
1:3:69:ASN:ND2	1:3:72:ARG:O	2.44	0.51
1:3:76:LEU:HD22	1:3:84:TRP:CZ3	2.46	0.51
1:5:300:PRO:HB3	1:5:401:TRP:CD1	2.46	0.51
1:5:319:ALA:HA	1:7:293:ASN:HD21	1.76	0.51
1:8:76:LEU:HD22	1:8:84:TRP:CZ3	2.46	0.51
1:8:252:ASP:O	1:8:564:ARG:NH2	2.43	0.51
1:C:69:ASN:ND2	1:C:72:ARG:O	2.44	0.51
1:C:527:ARG:NH1	1:L:544:THR:OG1	2.39	0.51
1:D:300:PRO:HB3	1:D:401:TRP:CD1	2.46	0.51
1:E:307:ILE:HG12	1:F:408:ASP:O	2.10	0.51
1:F:69:ASN:ND2	1:F:72:ARG:O	2.44	0.51
1:K:76:LEU:HD22	1:K:84:TRP:CZ3	2.46	0.51
1:L:300:PRO:HB3	1:L:401:TRP:CD1	2.46	0.51
1:M:319:ALA:HA	1:b:293:ASN:HD21	1.76	0.51
1:O:69:ASN:ND2	1:O:72:ARG:O	2.44	0.51
1:O:252:ASP:O	1:O:564:ARG:NH2	2.43	0.51
1:O:293:ASN:HD21	1:m:319:ALA:HA	1.76	0.51
1:O:300:PRO:HB3	1:O:401:TRP:CD1	2.46	0.51
1:S:293:ASN:HD21	1:U:319:ALA:HA	1.76	0.51
1:T:268:THR:O	1:T:288:ARG:NH1	2.43	0.51
1:T:300:PRO:HB3	1:T:401:TRP:CD1	2.46	0.51
1:U:252:ASP:O	1:U:564:ARG:NH2	2.44	0.51
1:V:300:PRO:HB3	1:V:401:TRP:CD1	2.46	0.51
1:X:69:ASN:ND2	1:X:72:ARG:O	2.44	0.51
1:X:278:TYR:HB3	1:X:422:GLY:HA2	1.93	0.51
1:c:69:ASN:ND2	1:c:72:ARG:O	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:408:ASP:O	1:o:307:ILE:HG12	2.10	0.51
1:e:69:ASN:ND2	1:e:72:ARG:O	2.44	0.51
1:g:69:ASN:ND2	1:g:72:ARG:O	2.44	0.51
1:h:359:ASP:OD1	1:h:359:ASP:N	2.44	0.51
1:h:527:ARG:NH1	1:k:544:THR:OG1	2.39	0.51
1:j:359:ASP:N	1:j:359:ASP:OD1	2.44	0.51
1:l:69:ASN:ND2	1:l:72:ARG:O	2.44	0.51
1:l:386:GLU:HG3	1:l:388:LYS:HG3	1.93	0.51
1:o:69:ASN:ND2	1:o:72:ARG:O	2.44	0.51
1:o:252:ASP:O	1:o:564:ARG:NH2	2.43	0.51
1:p:268:THR:O	1:p:288:ARG:NH1	2.43	0.51
1:p:278:TYR:HB3	1:p:422:GLY:HA2	1.93	0.51
1:s:252:ASP:O	1:s:564:ARG:NH2	2.44	0.51
1:w:76:LEU:HD22	1:w:84:TRP:CZ3	2.46	0.51
1:x:268:THR:O	1:x:288:ARG:NH1	2.43	0.51
1:y:69:ASN:ND2	1:y:72:ARG:O	2.44	0.51
1:y:300:PRO:HB3	1:y:401:TRP:CD1	2.46	0.51
1:1:76:LEU:HD22	1:1:84:TRP:CZ3	2.46	0.51
1:7:300:PRO:HB3	1:7:401:TRP:CD1	2.46	0.51
1:A:293:ASN:HD21	1:G:319:ALA:HA	1.76	0.51
1:C:544:THR:OG1	1:L:527:ARG:NH1	2.39	0.51
1:D:278:TYR:HB3	1:D:422:GLY:HA2	1.93	0.51
1:F:300:PRO:HB3	1:F:401:TRP:CD1	2.46	0.51
1:H:293:ASN:HD21	1:W:319:ALA:HA	1.76	0.51
1:I:76:LEU:HD22	1:I:84:TRP:CZ3	2.46	0.51
1:K:319:ALA:HA	1:8:293:ASN:HD21	1.76	0.51
1:M:69:ASN:ND2	1:M:72:ARG:O	2.44	0.51
1:M:300:PRO:HB3	1:M:401:TRP:CD1	2.46	0.51
1:O:386:GLU:HG3	1:O:388:LYS:HG3	1.93	0.51
1:R:69:ASN:ND2	1:R:72:ARG:O	2.44	0.51
1:R:278:TYR:HB3	1:R:422:GLY:HA2	1.93	0.51
1:V:319:ALA:HA	1:X:293:ASN:HD21	1.76	0.51
1:X:386:GLU:HG3	1:X:388:LYS:HG3	1.93	0.51
1:Y:300:PRO:HB3	1:Y:401:TRP:CD1	2.46	0.51
1:Z:293:ASN:HD21	1:4:319:ALA:HA	1.76	0.51
1:a:386:GLU:HG3	1:a:388:LYS:HG3	1.93	0.51
1:d:69:ASN:ND2	1:d:72:ARG:O	2.44	0.51
1:e:386:GLU:HG3	1:e:388:LYS:HG3	1.93	0.51
1:g:278:TYR:HB3	1:g:422:GLY:HA2	1.93	0.51
1:h:69:ASN:ND2	1:h:72:ARG:O	2.44	0.51
1:h:278:TYR:HB3	1:h:422:GLY:HA2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:300:PRO:HB3	1:h:401:TRP:CD1	2.46	0.51
1:i:311:GLN:O	1:i:312:SER:OG	2.25	0.51
1:k:76:LEU:HD22	1:k:84:TRP:CZ3	2.46	0.51
1:l:359:ASP:OD1	1:l:359:ASP:N	2.44	0.51
1:m:268:THR:O	1:m:288:ARG:NH1	2.43	0.51
1:n:69:ASN:ND2	1:n:72:ARG:O	2.44	0.51
1:n:386:GLU:HG3	1:n:388:LYS:HG3	1.93	0.51
1:o:386:GLU:HG3	1:o:388:LYS:HG3	1.93	0.51
1:q:69:ASN:ND2	1:q:72:ARG:O	2.44	0.51
1:q:252:ASP:O	1:q:564:ARG:NH2	2.44	0.51
1:q:379:SER:OG	1:q:451:ASP:OD2	2.26	0.51
1:t:319:ALA:HA	1:v:293:ASN:HD21	1.76	0.51
1:u:252:ASP:O	1:u:564:ARG:NH2	2.44	0.51
1:u:278:TYR:HB3	1:u:422:GLY:HA2	1.93	0.51
1:y:76:LEU:HD22	1:y:84:TRP:CZ3	2.46	0.51
1:y:268:THR:O	1:y:288:ARG:NH1	2.43	0.51
1:z:408:ASP:O	1:l:307:ILE:HG12	2.10	0.51
1:3:319:ALA:HA	1:4:293:ASN:HD21	1.76	0.51
1:3:386:GLU:HG3	1:3:388:LYS:HG3	1.93	0.51
1:4:76:LEU:HD22	1:4:84:TRP:CZ3	2.46	0.51
1:5:148:LEU:O	1:5:149:THR:OG1	2.28	0.51
1:A:76:LEU:HD22	1:A:84:TRP:CZ3	2.46	0.50
1:B:69:ASN:ND2	1:B:72:ARG:O	2.44	0.50
1:B:307:ILE:HG12	1:L:408:ASP:O	2.10	0.50
1:C:278:TYR:HB3	1:C:422:GLY:HA2	1.93	0.50
1:D:76:LEU:HD22	1:D:84:TRP:CZ3	2.46	0.50
1:E:69:ASN:ND2	1:E:72:ARG:O	2.44	0.50
1:E:76:LEU:HD22	1:E:84:TRP:CZ3	2.46	0.50
1:E:125:VAL:HG21	1:E:483:ILE:HD11	1.94	0.50
1:F:76:LEU:HD22	1:F:84:TRP:CZ3	2.46	0.50
1:F:268:THR:O	1:F:288:ARG:NH1	2.43	0.50
1:F:278:TYR:HB3	1:F:422:GLY:HA2	1.93	0.50
1:I:252:ASP:O	1:I:564:ARG:NH2	2.44	0.50
1:M:278:TYR:HB3	1:M:422:GLY:HA2	1.93	0.50
1:N:69:ASN:ND2	1:N:72:ARG:O	2.44	0.50
1:N:276:ASN:OD1	1:N:276:ASN:N	2.45	0.50
1:O:359:ASP:OD1	1:O:359:ASP:N	2.44	0.50
1:P:276:ASN:OD1	1:P:276:ASN:N	2.45	0.50
1:P:359:ASP:N	1:P:359:ASP:OD1	2.44	0.50
1:W:300:PRO:HB3	1:W:401:TRP:CD1	2.46	0.50
1:X:76:LEU:HD22	1:X:84:TRP:CZ3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:252:ASP:O	1:X:564:ARG:NH2	2.43	0.50
1:X:319:ALA:HA	1:e:293:ASN:HD21	1.76	0.50
1:Z:386:GLU:HG3	1:Z:388:LYS:HG3	1.93	0.50
1:c:293:ASN:HD21	1:o:319:ALA:HA	1.76	0.50
1:c:386:GLU:HG3	1:c:388:LYS:HG3	1.93	0.50
1:g:544:THR:OG1	1:z:527:ARG:NH1	2.38	0.50
1:i:276:ASN:OD1	1:i:276:ASN:N	2.45	0.50
1:j:276:ASN:OD1	1:j:276:ASN:N	2.45	0.50
1:k:278:TYR:HB3	1:k:422:GLY:HA2	1.93	0.50
1:l:76:LEU:HD22	1:l:84:TRP:CZ3	2.46	0.50
1:l:252:ASP:O	1:l:564:ARG:NH2	2.43	0.50
1:m:69:ASN:ND2	1:m:72:ARG:O	2.44	0.50
1:m:300:PRO:HB3	1:m:401:TRP:CD1	2.46	0.50
1:o:76:LEU:HD22	1:o:84:TRP:CZ3	2.46	0.50
1:o:293:ASN:HD21	1:p:319:ALA:HA	1.76	0.50
1:q:311:GLN:O	1:q:312:SER:OG	2.25	0.50
1:q:319:ALA:HA	1:s:293:ASN:HD21	1.76	0.50
1:r:276:ASN:OD1	1:r:276:ASN:N	2.45	0.50
1:u:76:LEU:HD22	1:u:84:TRP:CZ3	2.46	0.50
1:v:278:TYR:HB3	1:v:422:GLY:HA2	1.93	0.50
1:w:69:ASN:ND2	1:w:72:ARG:O	2.44	0.50
1:w:125:VAL:HG21	1:w:483:ILE:HD11	1.94	0.50
1:z:276:ASN:OD1	1:z:276:ASN:N	2.45	0.50
1:1:69:ASN:ND2	1:1:72:ARG:O	2.44	0.50
1:5:293:ASN:HD21	1:6:319:ALA:HA	1.76	0.50
1:6:69:ASN:ND2	1:6:72:ARG:O	2.44	0.50
1:6:300:PRO:HB3	1:6:401:TRP:CD1	2.46	0.50
1:7:386:GLU:HG3	1:7:388:LYS:HG3	1.93	0.50
1:A:278:TYR:HB3	1:A:422:GLY:HA2	1.93	0.50
1:B:293:ASN:HD21	1:J:319:ALA:HA	1.76	0.50
1:C:276:ASN:OD1	1:C:276:ASN:N	2.45	0.50
1:D:319:ALA:HA	1:P:293:ASN:HD21	1.76	0.50
1:F:252:ASP:O	1:F:564:ARG:NH2	2.44	0.50
1:H:148:LEU:O	1:H:149:THR:OG1	2.28	0.50
1:H:359:ASP:N	1:H:359:ASP:OD1	2.44	0.50
1:I:278:TYR:HB3	1:I:422:GLY:HA2	1.93	0.50
1:K:293:ASN:HD21	1:a:319:ALA:HA	1.76	0.50
1:L:76:LEU:HD22	1:L:84:TRP:CZ3	2.46	0.50
1:L:276:ASN:OD1	1:L:276:ASN:N	2.45	0.50
1:O:76:LEU:HD22	1:O:84:TRP:CZ3	2.46	0.50
1:Q:69:ASN:ND2	1:Q:72:ARG:O	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:319:ALA:HA	1:U:293:ASN:HD21	1.76	0.50
1:R:386:GLU:HG3	1:R:388:LYS:HG3	1.93	0.50
1:S:276:ASN:OD1	1:S:276:ASN:N	2.45	0.50
1:S:300:PRO:HB3	1:S:401:TRP:CD1	2.46	0.50
1:T:69:ASN:ND2	1:T:72:ARG:O	2.44	0.50
1:W:69:ASN:ND2	1:W:72:ARG:O	2.44	0.50
1:X:276:ASN:OD1	1:X:276:ASN:N	2.44	0.50
1:Y:69:ASN:ND2	1:Y:72:ARG:O	2.44	0.50
1:Y:386:GLU:HG3	1:Y:388:LYS:HG3	1.93	0.50
1:Z:300:PRO:HB3	1:Z:401:TRP:CD1	2.46	0.50
1:c:359:ASP:OD1	1:c:359:ASP:N	2.44	0.50
1:d:386:GLU:HG3	1:d:388:LYS:HG3	1.93	0.50
1:g:307:ILE:HG12	1:h:408:ASP:O	2.11	0.50
1:g:359:ASP:OD1	1:g:359:ASP:N	2.44	0.50
1:i:69:ASN:ND2	1:i:72:ARG:O	2.44	0.50
1:j:293:ASN:HD21	1:k:319:ALA:HA	1.76	0.50
1:o:276:ASN:OD1	1:o:276:ASN:N	2.44	0.50
1:u:359:ASP:N	1:u:359:ASP:OD1	2.44	0.50
1:x:69:ASN:ND2	1:x:72:ARG:O	2.44	0.50
1:y:278:TYR:HB3	1:y:422:GLY:HA2	1.93	0.50
1:z:76:LEU:HD22	1:z:84:TRP:CZ3	2.46	0.50
1:1:278:TYR:HB3	1:1:422:GLY:HA2	1.93	0.50
1:2:278:TYR:HB3	1:2:422:GLY:HA2	1.93	0.50
1:5:359:ASP:N	1:5:359:ASP:OD1	2.44	0.50
1:7:69:ASN:ND2	1:7:72:ARG:O	2.44	0.50
1:8:386:GLU:HG3	1:8:388:LYS:HG3	1.93	0.50
1:A:386:GLU:HG3	1:A:388:LYS:HG3	1.93	0.50
1:B:278:TYR:HB3	1:B:422:GLY:HA2	1.93	0.50
1:C:125:VAL:HG21	1:C:483:ILE:HD11	1.94	0.50
1:C:359:ASP:OD1	1:C:359:ASP:N	2.44	0.50
1:D:293:ASN:HD21	1:N:319:ALA:HA	1.76	0.50
1:G:293:ASN:HD21	1:I:319:ALA:HA	1.77	0.50
1:H:76:LEU:HD22	1:H:84:TRP:CZ3	2.46	0.50
1:I:125:VAL:HG21	1:I:483:ILE:HD11	1.94	0.50
1:I:359:ASP:OD1	1:I:359:ASP:N	2.44	0.50
1:J:386:GLU:HG3	1:J:388:LYS:HG3	1.93	0.50
1:M:276:ASN:OD1	1:M:276:ASN:N	2.45	0.50
1:N:311:GLN:O	1:N:312:SER:OG	2.25	0.50
1:O:319:ALA:HA	1:n:293:ASN:HD21	1.76	0.50
1:P:69:ASN:ND2	1:P:72:ARG:O	2.44	0.50
1:P:76:LEU:HD22	1:P:84:TRP:CZ3	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:278:TYR:HB3	1:Q:422:GLY:HA2	1.93	0.50
1:S:125:VAL:HG21	1:S:483:ILE:HD11	1.94	0.50
1:S:278:TYR:HB3	1:S:422:GLY:HA2	1.93	0.50
1:T:76:LEU:HD22	1:T:84:TRP:CZ3	2.46	0.50
1:T:386:GLU:HG3	1:T:388:LYS:HG3	1.93	0.50
1:Z:125:VAL:HG21	1:Z:483:ILE:HD11	1.94	0.50
1:b:76:LEU:HD22	1:b:84:TRP:CZ3	2.46	0.50
1:b:370:PHE:CG	1:b:373:ILE:HD12	2.47	0.50
1:f:370:PHE:CG	1:f:373:ILE:HD12	2.47	0.50
1:g:125:VAL:HG21	1:g:483:ILE:HD11	1.94	0.50
1:g:276:ASN:OD1	1:g:276:ASN:N	2.45	0.50
1:j:69:ASN:ND2	1:j:72:ARG:O	2.44	0.50
1:j:76:LEU:HD22	1:j:84:TRP:CZ3	2.46	0.50
1:o:408:ASP:O	1:p:307:ILE:HG12	2.10	0.50
1:q:386:GLU:HG3	1:q:388:LYS:HG3	1.93	0.50
1:r:125:VAL:HG21	1:r:483:ILE:HD11	1.94	0.50
1:r:300:PRO:HB3	1:r:401:TRP:CD1	2.46	0.50
1:s:370:PHE:CG	1:s:373:ILE:HD12	2.47	0.50
1:t:293:ASN:HD21	1:u:319:ALA:HA	1.77	0.50
1:u:125:VAL:HG21	1:u:483:ILE:HD11	1.94	0.50
1:v:386:GLU:HG3	1:v:388:LYS:HG3	1.93	0.50
1:x:293:ASN:HD21	1:y:319:ALA:HA	1.77	0.50
1:y:252:ASP:O	1:y:564:ARG:NH2	2.44	0.50
1:1:293:ASN:HD21	1:2:319:ALA:HA	1.76	0.50
1:2:386:GLU:HG3	1:2:388:LYS:HG3	1.93	0.50
1:6:278:TYR:HB3	1:6:422:GLY:HA2	1.93	0.50
1:8:125:VAL:HG21	1:8:483:ILE:HD11	1.94	0.50
1:8:300:PRO:HB3	1:8:401:TRP:CD1	2.46	0.50
1:C:293:ASN:HD21	1:b:319:ALA:HA	1.76	0.50
1:G:232:LEU:HD22	1:G:236:GLU:HB3	1.94	0.50
1:J:278:TYR:HB3	1:J:422:GLY:HA2	1.93	0.50
1:M:268:THR:O	1:M:288:ARG:NH1	2.43	0.50
1:N:125:VAL:HG21	1:N:483:ILE:HD11	1.94	0.50
1:R:311:GLN:O	1:R:312:SER:OG	2.25	0.50
1:T:293:ASN:HD21	1:d:319:ALA:HA	1.76	0.50
1:U:370:PHE:CG	1:U:373:ILE:HD12	2.47	0.50
1:V:125:VAL:HG21	1:V:483:ILE:HD11	1.94	0.50
1:V:307:ILE:HG12	1:X:408:ASP:O	2.10	0.50
1:W:92:GLY:O	1:W:485:VAL:N	2.38	0.50
1:W:278:TYR:HB3	1:W:422:GLY:HA2	1.93	0.50
1:e:359:ASP:OD1	1:e:359:ASP:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:76:LEU:HD22	1:f:84:TRP:CZ3	2.46	0.50
1:f:386:GLU:HG3	1:f:388:LYS:HG3	1.93	0.50
1:h:268:THR:O	1:h:288:ARG:NH1	2.43	0.50
1:h:386:GLU:HG3	1:h:388:LYS:HG3	1.93	0.50
1:i:319:ALA:HA	1:k:293:ASN:HD21	1.76	0.50
1:m:76:LEU:HD22	1:m:84:TRP:CZ3	2.46	0.50
1:m:386:GLU:HG3	1:m:388:LYS:HG3	1.93	0.50
1:p:125:VAL:HG21	1:p:483:ILE:HD11	1.94	0.50
1:r:370:PHE:CG	1:r:373:ILE:HD12	2.47	0.50
1:t:232:LEU:HD22	1:t:236:GLU:HB3	1.94	0.50
1:v:76:LEU:HD22	1:v:84:TRP:CZ3	2.46	0.50
1:w:319:ALA:HA	1:y:293:ASN:HD21	1.76	0.50
1:1:359:ASP:OD1	1:1:359:ASP:N	2.44	0.50
1:5:76:LEU:HD22	1:5:84:TRP:CZ3	2.46	0.50
1:6:92:GLY:O	1:6:485:VAL:N	2.38	0.50
1:B:232:LEU:HD22	1:B:236:GLU:HB3	1.94	0.50
1:C:370:PHE:CG	1:C:373:ILE:HD12	2.47	0.50
1:E:370:PHE:CG	1:E:373:ILE:HD12	2.47	0.50
1:F:232:LEU:HD22	1:F:236:GLU:HB3	1.94	0.50
1:F:370:PHE:CG	1:F:373:ILE:HD12	2.47	0.50
1:G:300:PRO:HB3	1:G:401:TRP:CD1	2.46	0.50
1:H:69:ASN:ND2	1:H:72:ARG:O	2.44	0.50
1:K:125:VAL:HG21	1:K:483:ILE:HD11	1.94	0.50
1:K:359:ASP:OD1	1:K:359:ASP:N	2.44	0.50
1:L:386:GLU:HG3	1:L:388:LYS:HG3	1.93	0.50
1:M:386:GLU:HG3	1:M:388:LYS:HG3	1.93	0.50
1:Q:76:LEU:HD22	1:Q:84:TRP:CZ3	2.46	0.50
1:R:408:ASP:O	1:S:307:ILE:HG12	2.10	0.50
1:V:41:THR:HG1	1:V:129:ASN:H	1.59	0.50
1:V:76:LEU:HD22	1:V:84:TRP:CZ3	2.46	0.50
1:W:76:LEU:HD22	1:W:84:TRP:CZ3	2.46	0.50
1:X:370:PHE:CG	1:X:373:ILE:HD12	2.47	0.50
1:b:386:GLU:HG3	1:b:388:LYS:HG3	1.93	0.50
1:c:232:LEU:HD22	1:c:236:GLU:HB3	1.94	0.50
1:d:293:ASN:HD21	1:l:319:ALA:HA	1.76	0.50
1:e:232:LEU:HD22	1:e:236:GLU:HB3	1.94	0.50
1:g:370:PHE:CG	1:g:373:ILE:HD12	2.47	0.50
1:i:125:VAL:HG21	1:i:483:ILE:HD11	1.94	0.50
1:i:386:GLU:HG3	1:i:388:LYS:HG3	1.93	0.50
1:j:370:PHE:CG	1:j:373:ILE:HD12	2.47	0.50
1:m:293:ASN:HD21	1:n:319:ALA:HA	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:370:PHE:CG	1:o:373:ILE:HD12	2.47	0.50
1:q:408:ASP:O	1:r:307:ILE:HG12	2.10	0.50
1:r:278:TYR:HB3	1:r:422:GLY:HA2	1.93	0.50
1:w:370:PHE:CG	1:w:373:ILE:HD12	2.47	0.50
1:x:278:TYR:HB3	1:x:422:GLY:HA2	1.93	0.50
1:x:359:ASP:OD1	1:x:359:ASP:N	2.44	0.50
1:y:232:LEU:HD22	1:y:236:GLU:HB3	1.94	0.50
1:1:232:LEU:HD22	1:1:236:GLU:HB3	1.94	0.50
1:2:76:LEU:HD22	1:2:84:TRP:CZ3	2.46	0.50
1:4:125:VAL:HG21	1:4:483:ILE:HD11	1.94	0.50
1:4:359:ASP:N	1:4:359:ASP:OD1	2.44	0.50
1:6:76:LEU:HD22	1:6:84:TRP:CZ3	2.46	0.50
1:B:359:ASP:OD1	1:B:359:ASP:N	2.44	0.50
1:E:319:ALA:HA	1:F:293:ASN:HD21	1.76	0.50
1:G:69:ASN:ND2	1:G:72:ARG:O	2.44	0.50
1:G:359:ASP:N	1:G:359:ASP:OD1	2.44	0.50
1:G:370:PHE:CG	1:G:373:ILE:HD12	2.47	0.50
1:G:386:GLU:HG3	1:G:388:LYS:HG3	1.93	0.50
1:J:76:LEU:HD22	1:J:84:TRP:CZ3	2.46	0.50
1:K:386:GLU:HG3	1:K:388:LYS:HG3	1.93	0.50
1:L:268:THR:O	1:L:288:ARG:NH1	2.43	0.50
1:N:386:GLU:HG3	1:N:388:LYS:HG3	1.93	0.50
1:P:370:PHE:CG	1:P:373:ILE:HD12	2.47	0.50
1:S:370:PHE:CG	1:S:373:ILE:HD12	2.47	0.50
1:U:232:LEU:HD22	1:U:236:GLU:HB3	1.94	0.50
1:V:69:ASN:ND2	1:V:72:ARG:O	2.44	0.50
1:Y:232:LEU:HD22	1:Y:236:GLU:HB3	1.94	0.50
1:g:76:LEU:HD22	1:g:84:TRP:CZ3	2.46	0.50
1:g:319:ALA:HA	1:h:293:ASN:HD21	1.76	0.50
1:k:311:GLN:O	1:k:312:SER:OG	2.25	0.50
1:p:69:ASN:ND2	1:p:72:ARG:O	2.44	0.50
1:s:232:LEU:HD22	1:s:236:GLU:HB3	1.94	0.50
1:s:300:PRO:HB3	1:s:401:TRP:CD1	2.46	0.50
1:s:359:ASP:N	1:s:359:ASP:OD1	2.44	0.50
1:t:69:ASN:ND2	1:t:72:ARG:O	2.44	0.50
1:t:125:VAL:HG21	1:t:483:ILE:HD11	1.94	0.50
1:u:58:VAL:HG22	1:u:513:THR:HG23	1.94	0.50
1:v:359:ASP:N	1:v:359:ASP:OD1	2.44	0.50
1:x:76:LEU:HD22	1:x:84:TRP:CZ3	2.46	0.50
1:y:370:PHE:CG	1:y:373:ILE:HD12	2.47	0.50
1:z:319:ALA:HA	1:2:293:ASN:HD21	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:359:ASP:OD1	1:3:359:ASP:N	2.44	0.50
1:5:69:ASN:ND2	1:5:72:ARG:O	2.44	0.50
1:B:125:VAL:HG21	1:B:483:ILE:HD11	1.94	0.50
1:C:76:LEU:HD22	1:C:84:TRP:CZ3	2.46	0.50
1:C:319:ALA:HA	1:M:293:ASN:HD21	1.76	0.50
1:D:125:VAL:HG21	1:D:483:ILE:HD11	1.94	0.50
1:D:544:THR:HG1	1:M:527:ARG:HH11	1.57	0.50
1:F:319:ALA:HA	1:Q:293:ASN:HD21	1.77	0.50
1:G:125:VAL:HG21	1:G:483:ILE:HD11	1.94	0.50
1:H:386:GLU:HG3	1:H:388:LYS:HG3	1.93	0.50
1:I:58:VAL:HG22	1:I:513:THR:HG23	1.94	0.50
1:J:293:ASN:HD21	1:L:319:ALA:HA	1.76	0.50
1:K:370:PHE:CG	1:K:373:ILE:HD12	2.47	0.50
1:M:469:SER:HA	1:b:440:ASN:HD21	1.77	0.50
1:P:232:LEU:HD22	1:P:236:GLU:HB3	1.94	0.50
1:Q:359:ASP:OD1	1:Q:359:ASP:N	2.44	0.50
1:R:125:VAL:HG21	1:R:483:ILE:HD11	1.94	0.50
1:U:359:ASP:N	1:U:359:ASP:OD1	2.44	0.50
1:W:293:ASN:HD21	1:Y:319:ALA:HA	1.76	0.50
1:W:408:ASP:O	1:Y:307:ILE:HG12	2.10	0.50
1:Y:125:VAL:HG21	1:Y:483:ILE:HD11	1.94	0.50
1:c:148:LEU:O	1:c:149:THR:OG1	2.28	0.50
1:e:148:LEU:O	1:e:149:THR:OG1	2.28	0.50
1:i:370:PHE:CG	1:i:373:ILE:HD12	2.47	0.50
1:l:125:VAL:HG21	1:l:483:ILE:HD11	1.94	0.50
1:o:359:ASP:OD1	1:o:359:ASP:N	2.44	0.50
1:p:76:LEU:HD22	1:p:84:TRP:CZ3	2.46	0.50
1:q:125:VAL:HG21	1:q:483:ILE:HD11	1.94	0.50
1:t:300:PRO:HB3	1:t:401:TRP:CD1	2.46	0.50
1:t:370:PHE:CG	1:t:373:ILE:HD12	2.47	0.50
1:t:386:GLU:HG3	1:t:388:LYS:HG3	1.93	0.50
1:z:232:LEU:HD22	1:z:236:GLU:HB3	1.94	0.50
1:z:268:THR:O	1:z:288:ARG:NH1	2.43	0.50
1:z:386:GLU:HG3	1:z:388:LYS:HG3	1.93	0.50
1:1:125:VAL:HG21	1:1:483:ILE:HD11	1.94	0.50
1:4:370:PHE:CG	1:4:373:ILE:HD12	2.47	0.50
1:4:386:GLU:HG3	1:4:388:LYS:HG3	1.93	0.50
1:5:386:GLU:HG3	1:5:388:LYS:HG3	1.93	0.50
1:6:293:ASN:HD21	1:7:319:ALA:HA	1.76	0.50
1:7:125:VAL:HG21	1:7:483:ILE:HD11	1.94	0.50
1:7:232:LEU:HD22	1:7:236:GLU:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:359:ASP:OD1	1:A:359:ASP:N	2.44	0.50
1:A:440:ASN:HD21	1:G:469:SER:HA	1.77	0.50
1:C:469:SER:HA	1:M:440:ASN:HD21	1.77	0.50
1:D:311:GLN:O	1:D:312:SER:OG	2.25	0.50
1:J:125:VAL:HG21	1:J:483:ILE:HD11	1.94	0.50
1:L:69:ASN:ND2	1:L:72:ARG:O	2.44	0.50
1:N:370:PHE:CG	1:N:373:ILE:HD12	2.47	0.50
1:O:125:VAL:HG21	1:O:483:ILE:HD11	1.94	0.50
1:R:232:LEU:HD22	1:R:236:GLU:HB3	1.94	0.50
1:T:125:VAL:HG21	1:T:483:ILE:HD11	1.94	0.50
1:U:300:PRO:HB3	1:U:401:TRP:CD1	2.46	0.50
1:U:527:ARG:NH1	1:V:544:THR:OG1	2.39	0.50
1:Y:370:PHE:CG	1:Y:373:ILE:HD12	2.47	0.50
1:Z:370:PHE:CG	1:Z:373:ILE:HD12	2.47	0.50
1:a:359:ASP:OD1	1:a:359:ASP:N	2.44	0.50
1:g:386:GLU:HG3	1:g:388:LYS:HG3	1.93	0.50
1:j:232:LEU:HD22	1:j:236:GLU:HB3	1.94	0.50
1:k:125:VAL:HG21	1:k:483:ILE:HD11	1.94	0.50
1:m:125:VAL:HG21	1:m:483:ILE:HD11	1.94	0.50
1:m:370:PHE:CG	1:m:373:ILE:HD12	2.47	0.50
1:q:232:LEU:HD22	1:q:236:GLU:HB3	1.94	0.50
1:t:359:ASP:OD1	1:t:359:ASP:N	2.44	0.50
1:v:69:ASN:ND2	1:v:72:ARG:O	2.44	0.50
1:z:69:ASN:ND2	1:z:72:ARG:O	2.44	0.50
1:2:125:VAL:HG21	1:2:483:ILE:HD11	1.94	0.50
1:5:58:VAL:HG22	1:5:513:THR:HG23	1.94	0.50
1:6:408:ASP:O	1:7:307:ILE:HG12	2.10	0.50
1:7:370:PHE:CG	1:7:373:ILE:HD12	2.47	0.50
1:A:69:ASN:ND2	1:A:72:ARG:O	2.44	0.50
1:F:125:VAL:HG21	1:F:483:ILE:HD11	1.94	0.50
1:G:278:TYR:HB3	1:G:422:GLY:HA2	1.93	0.50
1:H:58:VAL:HG22	1:H:513:THR:HG23	1.94	0.50
1:K:469:SER:HA	1:8:440:ASN:HD21	1.77	0.50
1:L:232:LEU:HD22	1:L:236:GLU:HB3	1.94	0.50
1:N:293:ASN:HD21	1:P:319:ALA:HA	1.76	0.50
1:P:268:THR:O	1:P:288:ARG:NH1	2.43	0.50
1:W:544:THR:OG1	1:X:527:ARG:NH1	2.39	0.50
1:Y:76:LEU:HD22	1:Y:84:TRP:CZ3	2.46	0.50
1:Y:278:TYR:HB3	1:Y:422:GLY:HA2	1.93	0.50
1:Z:440:ASN:HD21	1:4:469:SER:HA	1.77	0.50
1:c:278:TYR:HB3	1:c:422:GLY:HA2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:319:ALA:HA	1:p:293:ASN:HD21	1.76	0.50
1:c:440:ASN:HD21	1:o:469:SER:HA	1.77	0.50
1:f:440:ASN:HD21	1:h:469:SER:HA	1.77	0.50
1:j:268:THR:O	1:j:288:ARG:NH1	2.43	0.50
1:k:69:ASN:ND2	1:k:72:ARG:O	2.44	0.50
1:m:232:LEU:HD22	1:m:236:GLU:HB3	1.94	0.50
1:o:440:ASN:HD21	1:p:469:SER:HA	1.77	0.50
1:q:293:ASN:HD21	1:r:319:ALA:HA	1.76	0.50
1:r:232:LEU:HD22	1:r:236:GLU:HB3	1.94	0.50
1:t:268:THR:O	1:t:288:ARG:NH1	2.43	0.50
1:t:278:TYR:HB3	1:t:422:GLY:HA2	1.93	0.50
1:t:469:SER:HA	1:v:440:ASN:HD21	1.77	0.50
1:v:232:LEU:HD22	1:v:236:GLU:HB3	1.94	0.50
1:w:276:ASN:OD1	1:w:276:ASN:N	2.45	0.50
1:2:148:LEU:O	1:2:149:THR:OG1	2.28	0.50
1:3:370:PHE:CG	1:3:373:ILE:HD12	2.47	0.50
1:5:370:PHE:CG	1:5:373:ILE:HD12	2.47	0.50
1:8:370:PHE:CG	1:8:373:ILE:HD12	2.47	0.50
1:A:232:LEU:HD22	1:A:236:GLU:HB3	1.94	0.49
1:B:386:GLU:HG3	1:B:388:LYS:HG3	1.93	0.49
1:C:386:GLU:HG3	1:C:388:LYS:HG3	1.93	0.49
1:D:69:ASN:ND2	1:D:72:ARG:O	2.44	0.49
1:D:359:ASP:OD1	1:D:359:ASP:N	2.44	0.49
1:D:469:SER:HA	1:P:440:ASN:HD21	1.77	0.49
1:E:276:ASN:OD1	1:E:276:ASN:N	2.45	0.49
1:G:76:LEU:HD22	1:G:84:TRP:CZ3	2.46	0.49
1:H:370:PHE:CG	1:H:373:ILE:HD12	2.47	0.49
1:S:232:LEU:HD22	1:S:236:GLU:HB3	1.94	0.49
1:T:232:LEU:HD22	1:T:236:GLU:HB3	1.94	0.49
1:T:370:PHE:CG	1:T:373:ILE:HD12	2.47	0.49
1:U:69:ASN:ND2	1:U:72:ARG:O	2.44	0.49
1:V:293:ASN:HD21	1:e:319:ALA:HA	1.76	0.49
1:V:469:SER:HA	1:X:440:ASN:HD21	1.77	0.49
1:W:386:GLU:HG3	1:W:388:LYS:HG3	1.93	0.49
1:X:469:SER:HA	1:e:440:ASN:HD21	1.77	0.49
1:Z:276:ASN:OD1	1:Z:276:ASN:N	2.45	0.49
1:Z:359:ASP:OD1	1:Z:359:ASP:N	2.44	0.49
1:a:370:PHE:CG	1:a:373:ILE:HD12	2.47	0.49
1:b:527:ARG:NH1	1:c:544:THR:OG1	2.38	0.49
1:e:278:TYR:HB3	1:e:422:GLY:HA2	1.93	0.49
1:i:293:ASN:HD21	1:j:319:ALA:HA	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:370:PHE:CG	1:k:373:ILE:HD12	2.47	0.49
1:o:58:VAL:HG22	1:o:513:THR:HG23	1.94	0.49
1:o:527:ARG:NH1	1:6:544:THR:OG1	2.39	0.49
1:q:336:THR:OG1	1:q:352:ASN:ND2	2.46	0.49
1:s:69:ASN:ND2	1:s:72:ARG:O	2.44	0.49
1:w:58:VAL:HG22	1:w:513:THR:HG23	1.94	0.49
1:x:336:THR:OG1	1:x:352:ASN:ND2	2.46	0.49
1:1:370:PHE:CG	1:1:373:ILE:HD12	2.47	0.49
1:4:58:VAL:HG22	1:4:513:THR:HG23	1.94	0.49
1:4:69:ASN:ND2	1:4:72:ARG:O	2.44	0.49
1:7:76:LEU:HD22	1:7:84:TRP:CZ3	2.46	0.49
1:7:278:TYR:HB3	1:7:422:GLY:HA2	1.93	0.49
1:8:359:ASP:OD1	1:8:359:ASP:N	2.44	0.49
1:B:370:PHE:CG	1:B:373:ILE:HD12	2.47	0.49
1:B:440:ASN:HD21	1:J:469:SER:HA	1.77	0.49
1:D:370:PHE:CG	1:D:373:ILE:HD12	2.47	0.49
1:E:58:VAL:HG22	1:E:513:THR:HG23	1.94	0.49
1:H:336:THR:OG1	1:H:352:ASN:ND2	2.46	0.49
1:I:370:PHE:CG	1:I:373:ILE:HD12	2.47	0.49
1:J:148:LEU:O	1:J:149:THR:OG1	2.28	0.49
1:K:58:VAL:HG22	1:K:513:THR:HG23	1.94	0.49
1:N:440:ASN:HD21	1:P:469:SER:HA	1.77	0.49
1:O:440:ASN:HD21	1:m:469:SER:HA	1.77	0.49
1:Q:336:THR:OG1	1:Q:352:ASN:ND2	2.46	0.49
1:Q:370:PHE:CG	1:Q:373:ILE:HD12	2.47	0.49
1:R:293:ASN:HD21	1:S:319:ALA:HA	1.76	0.49
1:R:336:THR:OG1	1:R:352:ASN:ND2	2.46	0.49
1:R:370:PHE:CG	1:R:373:ILE:HD12	2.47	0.49
1:R:469:SER:HA	1:U:440:ASN:HD21	1.77	0.49
1:X:58:VAL:HG22	1:X:513:THR:HG23	1.94	0.49
1:X:268:THR:O	1:X:288:ARG:NH1	2.43	0.49
1:Z:319:ALA:HA	1:3:293:ASN:HD21	1.76	0.49
1:a:440:ASN:HD21	1:8:469:SER:HA	1.77	0.49
1:b:92:GLY:O	1:b:485:VAL:N	2.38	0.49
1:c:336:THR:OG1	1:c:352:ASN:ND2	2.46	0.49
1:d:440:ASN:HD21	1:l:469:SER:HA	1.77	0.49
1:e:336:THR:OG1	1:e:352:ASN:ND2	2.46	0.49
1:g:330:PRO:HG3	1:h:368:SER:O	2.12	0.49
1:j:440:ASN:HD21	1:k:469:SER:HA	1.77	0.49
1:k:359:ASP:N	1:k:359:ASP:OD1	2.44	0.49
1:o:125:VAL:HG21	1:o:483:ILE:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:268:THR:O	1:o:288:ARG:NH1	2.43	0.49
1:q:469:SER:HA	1:s:440:ASN:HD21	1.77	0.49
1:s:76:LEU:HD22	1:s:84:TRP:CZ3	2.46	0.49
1:t:76:LEU:HD22	1:t:84:TRP:CZ3	2.46	0.49
1:u:370:PHE:CG	1:u:373:ILE:HD12	2.47	0.49
1:v:58:VAL:HG22	1:v:513:THR:HG23	1.94	0.49
1:v:92:GLY:O	1:v:485:VAL:N	2.38	0.49
1:x:386:GLU:HG3	1:x:388:LYS:HG3	1.93	0.49
1:y:58:VAL:HG22	1:y:513:THR:HG23	1.94	0.49
1:y:125:VAL:HG21	1:y:483:ILE:HD11	1.94	0.49
1:1:386:GLU:HG3	1:1:388:LYS:HG3	1.93	0.49
1:1:440:ASN:HD21	1:2:469:SER:HA	1.77	0.49
1:2:69:ASN:ND2	1:2:72:ARG:O	2.44	0.49
1:5:336:THR:OG1	1:5:352:ASN:ND2	2.46	0.49
1:6:386:GLU:HG3	1:6:388:LYS:HG3	1.93	0.49
1:A:58:VAL:HG22	1:A:513:THR:HG23	1.94	0.49
1:C:232:LEU:HD22	1:C:236:GLU:HB3	1.94	0.49
1:D:58:VAL:HG22	1:D:513:THR:HG23	1.94	0.49
1:E:232:LEU:HD22	1:E:236:GLU:HB3	1.94	0.49
1:F:58:VAL:HG22	1:F:513:THR:HG23	1.94	0.49
1:G:268:THR:O	1:G:288:ARG:NH1	2.43	0.49
1:I:386:GLU:HG3	1:I:388:LYS:HG3	1.94	0.49
1:J:69:ASN:ND2	1:J:72:ARG:O	2.44	0.49
1:J:370:PHE:CG	1:J:373:ILE:HD12	2.47	0.49
1:K:69:ASN:ND2	1:K:72:ARG:O	2.44	0.49
1:M:232:LEU:HD22	1:M:236:GLU:HB3	1.94	0.49
1:N:232:LEU:HD22	1:N:236:GLU:HB3	1.94	0.49
1:N:336:THR:OG1	1:N:352:ASN:ND2	2.46	0.49
1:O:469:SER:HA	1:n:440:ASN:HD21	1.77	0.49
1:P:58:VAL:HG22	1:P:513:THR:HG23	1.94	0.49
1:S:58:VAL:HG22	1:S:513:THR:HG23	1.94	0.49
1:S:336:THR:OG1	1:S:352:ASN:ND2	2.46	0.49
1:S:440:ASN:HD21	1:U:469:SER:HA	1.77	0.49
1:T:41:THR:OG1	1:T:128:TYR:HB2	2.13	0.49
1:T:469:SER:HA	1:l:440:ASN:HD21	1.77	0.49
1:U:76:LEU:HD22	1:U:84:TRP:CZ3	2.46	0.49
1:U:386:GLU:HG3	1:U:388:LYS:HG3	1.93	0.49
1:Z:69:ASN:ND2	1:Z:72:ARG:O	2.44	0.49
1:Z:469:SER:HA	1:3:440:ASN:HD21	1.77	0.49
1:a:293:ASN:HD21	1:8:319:ALA:HA	1.76	0.49
1:f:336:THR:OG1	1:f:352:ASN:ND2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:336:THR:OG1	1:g:352:ASN:ND2	2.46	0.49
1:h:232:LEU:HD22	1:h:236:GLU:HB3	1.94	0.49
1:i:336:THR:OG1	1:i:352:ASN:ND2	2.46	0.49
1:i:440:ASN:HD21	1:j:469:SER:HA	1.78	0.49
1:k:58:VAL:HG22	1:k:513:THR:HG23	1.94	0.49
1:m:41:THR:OG1	1:m:128:TYR:HB2	2.13	0.49
1:p:544:THR:OG1	1:s:527:ARG:NH1	2.39	0.49
1:r:58:VAL:HG22	1:r:513:THR:HG23	1.94	0.49
1:r:336:THR:OG1	1:r:352:ASN:ND2	2.46	0.49
1:w:232:LEU:HD22	1:w:236:GLU:HB3	1.94	0.49
1:w:293:ASN:HD21	1:x:319:ALA:HA	1.76	0.49
1:x:370:PHE:CG	1:x:373:ILE:HD12	2.47	0.49
1:2:370:PHE:CG	1:2:373:ILE:HD12	2.47	0.49
1:A:41:THR:OG1	1:A:128:TYR:HB2	2.13	0.49
1:A:469:SER:HA	1:I:440:ASN:HD21	1.78	0.49
1:B:58:VAL:HG22	1:B:513:THR:HG23	1.94	0.49
1:C:41:THR:OG1	1:C:128:TYR:HB2	2.13	0.49
1:C:260:ALA:HB2	1:b:358:TYR:CE2	2.48	0.49
1:C:336:THR:OG1	1:C:352:ASN:ND2	2.46	0.49
1:C:440:ASN:HD21	1:b:469:SER:HA	1.77	0.49
1:H:440:ASN:HD21	1:W:469:SER:HA	1.77	0.49
1:M:76:LEU:HD22	1:M:84:TRP:CZ3	2.46	0.49
1:Q:41:THR:OG1	1:Q:128:TYR:HB2	2.13	0.49
1:T:58:VAL:HG22	1:T:513:THR:HG23	1.94	0.49
1:V:58:VAL:HG22	1:V:513:THR:HG23	1.94	0.49
1:X:125:VAL:HG21	1:X:483:ILE:HD11	1.94	0.49
1:b:41:THR:OG1	1:b:128:TYR:HB2	2.13	0.49
1:b:336:THR:OG1	1:b:352:ASN:ND2	2.46	0.49
1:d:41:THR:OG1	1:d:128:TYR:HB2	2.13	0.49
1:e:125:VAL:HG21	1:e:483:ILE:HD11	1.94	0.49
1:f:41:THR:OG1	1:f:128:TYR:HB2	2.13	0.49
1:f:92:GLY:O	1:f:485:VAL:N	2.38	0.49
1:f:260:ALA:HB2	1:h:358:TYR:CE2	2.48	0.49
1:h:370:PHE:CG	1:h:373:ILE:HD12	2.47	0.49
1:i:76:LEU:HD22	1:i:84:TRP:CZ3	2.46	0.49
1:i:232:LEU:HD22	1:i:236:GLU:HB3	1.94	0.49
1:j:58:VAL:HG22	1:j:513:THR:HG23	1.94	0.49
1:l:370:PHE:CG	1:l:373:ILE:HD12	2.47	0.49
1:m:58:VAL:HG22	1:m:513:THR:HG23	1.94	0.49
1:n:41:THR:OG1	1:n:128:TYR:HB2	2.13	0.49
1:p:58:VAL:HG22	1:p:513:THR:HG23	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:370:PHE:CG	1:q:373:ILE:HD12	2.47	0.49
1:s:336:THR:OG1	1:s:352:ASN:ND2	2.46	0.49
1:u:268:THR:O	1:u:288:ARG:NH1	2.43	0.49
1:u:440:ASN:HD21	1:v:469:SER:HA	1.78	0.49
1:z:58:VAL:HG22	1:z:513:THR:HG23	1.94	0.49
1:1:276:ASN:OD1	1:1:276:ASN:N	2.45	0.49
1:3:41:THR:OG1	1:3:128:TYR:HB2	2.13	0.49
1:5:440:ASN:HD21	1:6:469:SER:HA	1.77	0.49
1:8:69:ASN:ND2	1:8:72:ARG:O	2.44	0.49
1:A:92:GLY:O	1:A:485:VAL:N	2.38	0.49
1:A:370:PHE:CG	1:A:373:ILE:HD12	2.47	0.49
1:B:276:ASN:OD1	1:B:276:ASN:N	2.45	0.49
1:B:336:THR:OG1	1:B:352:ASN:ND2	2.46	0.49
1:E:293:ASN:HD21	1:Q:319:ALA:HA	1.77	0.49
1:E:311:GLN:O	1:E:312:SER:OG	2.25	0.49
1:I:232:LEU:HD22	1:I:236:GLU:HB3	1.94	0.49
1:L:58:VAL:HG22	1:L:513:THR:HG23	1.94	0.49
1:M:358:TYR:CE2	1:b:260:ALA:HB2	2.48	0.49
1:M:370:PHE:CG	1:M:373:ILE:HD12	2.47	0.49
1:N:76:LEU:HD22	1:N:84:TRP:CZ3	2.46	0.49
1:O:41:THR:OG1	1:O:128:TYR:HB2	2.13	0.49
1:O:58:VAL:HG22	1:O:513:THR:HG23	1.94	0.49
1:O:370:PHE:CG	1:O:373:ILE:HD12	2.47	0.49
1:Q:92:GLY:O	1:Q:485:VAL:N	2.38	0.49
1:S:544:THR:HG1	1:T:527:ARG:HH11	1.59	0.49
1:T:336:THR:OG1	1:T:352:ASN:ND2	2.46	0.49
1:U:336:THR:OG1	1:U:352:ASN:ND2	2.46	0.49
1:V:386:GLU:HG3	1:V:388:LYS:HG3	1.94	0.49
1:Z:41:THR:OG1	1:Z:128:TYR:HB2	2.13	0.49
1:a:41:THR:OG1	1:a:128:TYR:HB2	2.13	0.49
1:c:370:PHE:CG	1:c:373:ILE:HD12	2.47	0.49
1:d:370:PHE:CG	1:d:373:ILE:HD12	2.47	0.49
1:g:41:THR:OG1	1:g:128:TYR:HB2	2.13	0.49
1:g:232:LEU:HD22	1:g:236:GLU:HB3	1.94	0.49
1:k:41:THR:OG1	1:k:128:TYR:HB2	2.13	0.49
1:l:232:LEU:HD22	1:l:236:GLU:HB3	1.94	0.49
1:m:336:THR:OG1	1:m:352:ASN:ND2	2.46	0.49
1:n:336:THR:OG1	1:n:352:ASN:ND2	2.46	0.49
1:n:370:PHE:CG	1:n:373:ILE:HD12	2.47	0.49
1:q:276:ASN:OD1	1:q:276:ASN:N	2.45	0.49
1:r:440:ASN:HD21	1:s:469:SER:HA	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:386:GLU:HG3	1:s:388:LYS:HG3	1.93	0.49
1:u:386:GLU:HG3	1:u:388:LYS:HG3	1.94	0.49
1:v:41:THR:OG1	1:v:128:TYR:HB2	2.13	0.49
1:v:370:PHE:CG	1:v:373:ILE:HD12	2.47	0.49
1:x:41:THR:OG1	1:x:128:TYR:HB2	2.13	0.49
1:x:232:LEU:HD22	1:x:236:GLU:HB3	1.94	0.49
1:1:58:VAL:HG22	1:1:513:THR:HG23	1.94	0.49
1:1:336:THR:OG1	1:1:352:ASN:ND2	2.46	0.49
1:3:58:VAL:HG22	1:3:513:THR:HG23	1.94	0.49
1:7:276:ASN:OD1	1:7:276:ASN:N	2.45	0.49
1:8:41:THR:OG1	1:8:128:TYR:HB2	2.13	0.49
1:A:319:ALA:HA	1:I:293:ASN:HD21	1.77	0.49
1:C:358:TYR:CE2	1:M:260:ALA:HB2	2.48	0.49
1:D:41:THR:OG1	1:D:128:TYR:HB2	2.13	0.49
1:F:336:THR:OG1	1:F:352:ASN:ND2	2.46	0.49
1:I:268:THR:O	1:I:288:ARG:NH1	2.43	0.49
1:L:41:THR:OG1	1:L:128:TYR:HB2	2.13	0.49
1:O:232:LEU:HD22	1:O:236:GLU:HB3	1.94	0.49
1:R:260:ALA:HB2	1:S:358:TYR:CE2	2.48	0.49
1:T:440:ASN:HD21	1:d:469:SER:HA	1.77	0.49
1:U:41:THR:OG1	1:U:128:TYR:HB2	2.13	0.49
1:U:125:VAL:HG21	1:U:483:ILE:HD11	1.94	0.49
1:V:370:PHE:CG	1:V:373:ILE:HD12	2.47	0.49
1:W:41:THR:OG1	1:W:128:TYR:HB2	2.13	0.49
1:Y:276:ASN:OD1	1:Y:276:ASN:N	2.45	0.49
1:b:69:ASN:ND2	1:b:72:ARG:O	2.44	0.49
1:c:125:VAL:HG21	1:c:483:ILE:HD11	1.94	0.49
1:d:232:LEU:HD22	1:d:236:GLU:HB3	1.94	0.49
1:d:336:THR:OG1	1:d:352:ASN:ND2	2.46	0.49
1:e:370:PHE:CG	1:e:373:ILE:HD12	2.47	0.49
1:e:544:THR:OG1	1:f:527:ARG:NH1	2.39	0.49
1:f:69:ASN:ND2	1:f:72:ARG:O	2.44	0.49
1:f:125:VAL:HG21	1:f:483:ILE:HD11	1.94	0.49
1:h:58:VAL:HG22	1:h:513:THR:HG23	1.94	0.49
1:h:76:LEU:HD22	1:h:84:TRP:CZ3	2.46	0.49
1:k:268:THR:O	1:k:288:ARG:NH1	2.43	0.49
1:l:41:THR:OG1	1:l:128:TYR:HB2	2.13	0.49
1:l:58:VAL:HG22	1:l:513:THR:HG23	1.94	0.49
1:l:336:THR:OG1	1:l:352:ASN:ND2	2.46	0.49
1:m:527:ARG:HH11	1:r:544:THR:HG1	1.59	0.49
1:n:359:ASP:OD1	1:n:359:ASP:N	2.44	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:386:GLU:HG3	1:r:388:LYS:HG3	1.93	0.49
1:s:41:THR:OG1	1:s:128:TYR:HB2	2.13	0.49
1:s:125:VAL:HG21	1:s:483:ILE:HD11	1.94	0.49
1:u:293:ASN:HD21	1:v:319:ALA:HA	1.77	0.49
1:y:336:THR:OG1	1:y:352:ASN:ND2	2.46	0.49
1:y:386:GLU:HG3	1:y:388:LYS:HG3	1.93	0.49
1:6:370:PHE:CG	1:6:373:ILE:HD12	2.47	0.49
1:A:125:VAL:HG21	1:A:483:ILE:HD11	1.94	0.49
1:F:386:GLU:HG3	1:F:388:LYS:HG3	1.93	0.49
1:G:41:THR:OG1	1:G:128:TYR:HB2	2.13	0.49
1:I:336:THR:OG1	1:I:352:ASN:ND2	2.46	0.49
1:J:232:LEU:HD22	1:J:236:GLU:HB3	1.94	0.49
1:M:58:VAL:HG22	1:M:513:THR:HG23	1.94	0.49
1:N:527:ARG:NH1	1:O:544:THR:OG1	2.39	0.49
1:O:336:THR:OG1	1:O:352:ASN:ND2	2.46	0.49
1:P:336:THR:OG1	1:P:352:ASN:ND2	2.46	0.49
1:Q:232:LEU:HD22	1:Q:236:GLU:HB3	1.94	0.49
1:Q:386:GLU:HG3	1:Q:388:LYS:HG3	1.94	0.49
1:R:276:ASN:OD1	1:R:276:ASN:N	2.45	0.49
1:S:386:GLU:HG3	1:S:388:LYS:HG3	1.93	0.49
1:W:370:PHE:CG	1:W:373:ILE:HD12	2.47	0.49
1:Y:359:ASP:OD1	1:Y:359:ASP:N	2.44	0.49
1:Z:232:LEU:HD22	1:Z:236:GLU:HB3	1.94	0.49
1:a:58:VAL:HG22	1:a:513:THR:HG23	1.94	0.49
1:b:125:VAL:HG21	1:b:483:ILE:HD11	1.94	0.49
1:c:41:THR:OG1	1:c:128:TYR:HB2	2.13	0.49
1:c:260:ALA:HB2	1:o:358:TYR:CE2	2.48	0.49
1:d:359:ASP:OD1	1:d:359:ASP:N	2.44	0.49
1:g:358:TYR:CE2	1:h:260:ALA:HB2	2.48	0.49
1:j:125:VAL:HG21	1:j:483:ILE:HD11	1.94	0.49
1:j:336:THR:OG1	1:j:352:ASN:ND2	2.46	0.49
1:m:440:ASN:HD21	1:n:469:SER:HA	1.77	0.49
1:p:370:PHE:CG	1:p:373:ILE:HD12	2.47	0.49
1:p:386:GLU:HG3	1:p:388:LYS:HG3	1.94	0.49
1:q:260:ALA:HB2	1:r:358:TYR:CE2	2.48	0.49
1:t:41:THR:OG1	1:t:128:TYR:HB2	2.13	0.49
1:t:440:ASN:HD21	1:u:469:SER:HA	1.77	0.49
1:u:232:LEU:HD22	1:u:236:GLU:HB3	1.94	0.49
1:u:336:THR:OG1	1:u:352:ASN:ND2	2.46	0.49
1:z:41:THR:OG1	1:z:128:TYR:HB2	2.13	0.49
1:z:125:VAL:HG21	1:z:483:ILE:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:232:LEU:HD22	1:2:236:GLU:HB3	1.94	0.49
1:4:232:LEU:HD22	1:4:236:GLU:HB3	1.94	0.49
1:6:41:THR:OG1	1:6:128:TYR:HB2	2.13	0.49
1:E:527:ARG:NH1	1:P:544:THR:OG1	2.39	0.49
1:G:440:ASN:HD21	1:I:469:SER:HA	1.77	0.49
1:G:527:ARG:NH1	1:H:544:THR:OG1	2.39	0.49
1:K:268:THR:O	1:K:288:ARG:NH1	2.43	0.49
1:L:125:VAL:HG21	1:L:483:ILE:HD11	1.94	0.49
1:L:370:PHE:CG	1:L:373:ILE:HD12	2.47	0.49
1:N:41:THR:OG1	1:N:128:TYR:HB2	2.13	0.49
1:N:359:ASP:OD1	1:N:359:ASP:N	2.44	0.49
1:P:41:THR:OG1	1:P:128:TYR:HB2	2.13	0.49
1:V:358:TYR:CE2	1:X:260:ALA:HB2	2.48	0.49
1:X:358:TYR:CE2	1:e:260:ALA:HB2	2.48	0.49
1:Y:379:SER:OG	1:Y:451:ASP:OD2	2.26	0.49
1:f:330:PRO:HG3	1:g:368:SER:O	2.13	0.49
1:f:463:LYS:HE3	1:g:467:PHE:O	2.13	0.49
1:i:359:ASP:OD1	1:i:359:ASP:N	2.44	0.49
1:j:41:THR:OG1	1:j:128:TYR:HB2	2.13	0.49
1:q:148:LEU:O	1:q:149:THR:OG1	2.28	0.49
1:r:260:ALA:HB2	1:s:358:TYR:CE2	2.48	0.49
1:t:58:VAL:HG22	1:t:513:THR:HG23	1.94	0.49
1:x:92:GLY:O	1:x:485:VAL:N	2.38	0.49
1:x:125:VAL:HG21	1:x:483:ILE:HD11	1.94	0.49
1:x:440:ASN:HD21	1:y:469:SER:HA	1.77	0.49
1:z:370:PHE:CG	1:z:373:ILE:HD12	2.47	0.49
1:z:440:ASN:HD21	1:1:469:SER:HA	1.77	0.49
1:6:125:VAL:HG21	1:6:483:ILE:HD11	1.94	0.49
1:7:359:ASP:N	1:7:359:ASP:OD1	2.44	0.49
1:A:336:THR:OG1	1:A:352:ASN:ND2	2.46	0.49
1:D:213:LYS:HG3	1:D:217:LYS:HE3	1.95	0.49
1:D:268:THR:O	1:D:288:ARG:NH1	2.43	0.49
1:E:395:ASP:O	1:Q:329:PRO:HB3	2.13	0.49
1:G:58:VAL:HG22	1:G:513:THR:HG23	1.94	0.49
1:G:213:LYS:HG3	1:G:217:LYS:HE3	1.95	0.49
1:H:232:LEU:HD22	1:H:236:GLU:HB3	1.94	0.49
1:K:232:LEU:HD22	1:K:236:GLU:HB3	1.94	0.49
1:K:413:GLU:HG3	1:K:426:ARG:HB2	1.95	0.49
1:M:375:LEU:HD12	1:M:392:ARG:HD3	1.95	0.49
1:N:375:LEU:HD12	1:N:392:ARG:HD3	1.95	0.49
1:P:125:VAL:HG21	1:P:483:ILE:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:213:LYS:HG3	1:S:217:LYS:HE3	1.95	0.49
1:V:232:LEU:HD22	1:V:236:GLU:HB3	1.94	0.49
1:X:232:LEU:HD22	1:X:236:GLU:HB3	1.94	0.49
1:d:125:VAL:HG21	1:d:483:ILE:HD11	1.94	0.49
1:e:41:THR:OG1	1:e:128:TYR:HB2	2.13	0.49
1:h:41:THR:OG1	1:h:128:TYR:HB2	2.13	0.49
1:h:375:LEU:HD12	1:h:392:ARG:HD3	1.95	0.49
1:i:41:THR:OG1	1:i:128:TYR:HB2	2.13	0.49
1:k:213:LYS:HG3	1:k:217:LYS:HE3	1.95	0.49
1:n:232:LEU:HD22	1:n:236:GLU:HB3	1.94	0.49
1:o:232:LEU:HD22	1:o:236:GLU:HB3	1.94	0.49
1:o:260:ALA:HB2	1:p:358:TYR:CE2	2.48	0.49
1:p:527:ARG:NH1	1:s:544:THR:OG1	2.39	0.49
1:r:213:LYS:HG3	1:r:217:LYS:HE3	1.95	0.49
1:t:213:LYS:HG3	1:t:217:LYS:HE3	1.95	0.49
1:t:527:ARG:NH1	1:5:544:THR:OG1	2.39	0.49
1:v:125:VAL:HG21	1:v:483:ILE:HD11	1.94	0.49
1:x:260:ALA:HB2	1:y:358:TYR:CE2	2.48	0.49
1:2:336:THR:OG1	1:2:352:ASN:ND2	2.46	0.49
1:5:232:LEU:HD22	1:5:236:GLU:HB3	1.94	0.49
1:8:232:LEU:HD22	1:8:236:GLU:HB3	1.94	0.49
1:A:413:GLU:HG3	1:A:426:ARG:HB2	1.95	0.49
1:B:319:ALA:HA	1:L:293:ASN:HD21	1.76	0.49
1:D:232:LEU:HD22	1:D:236:GLU:HB3	1.94	0.49
1:D:386:GLU:HG3	1:D:388:LYS:HG3	1.93	0.49
1:G:395:ASP:O	1:I:329:PRO:HB3	2.13	0.49
1:G:413:GLU:HG3	1:G:426:ARG:HB2	1.95	0.49
1:J:336:THR:OG1	1:J:352:ASN:ND2	2.46	0.49
1:K:213:LYS:HG3	1:K:217:LYS:HE3	1.95	0.49
1:M:41:THR:OG1	1:M:128:TYR:HB2	2.13	0.49
1:P:213:LYS:HG3	1:P:217:LYS:HE3	1.95	0.49
1:Q:125:VAL:HG21	1:Q:483:ILE:HD11	1.94	0.49
1:S:41:THR:OG1	1:S:128:TYR:HB2	2.13	0.49
1:S:260:ALA:HB2	1:U:358:TYR:CE2	2.48	0.49
1:T:375:LEU:HD12	1:T:392:ARG:HD3	1.95	0.49
1:V:334:ALA:O	1:V:348:GLN:NE2	2.38	0.49
1:W:125:VAL:HG21	1:W:483:ILE:HD11	1.94	0.49
1:Y:336:THR:OG1	1:Y:352:ASN:ND2	2.46	0.49
1:g:148:LEU:O	1:g:149:THR:OG1	2.28	0.49
1:i:527:ARG:NH1	1:l:544:THR:OG1	2.39	0.49
1:j:407:GLN:NE2	1:k:321:GLY:H	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:544:THR:OG1	1:w:527:ARG:NH1	2.39	0.49
1:k:232:LEU:HD22	1:k:236:GLU:HB3	1.94	0.49
1:m:375:LEU:HD12	1:m:392:ARG:HD3	1.95	0.49
1:n:125:VAL:HG21	1:n:483:ILE:HD11	1.94	0.49
1:p:232:LEU:HD22	1:p:236:GLU:HB3	1.94	0.49
1:r:41:THR:OG1	1:r:128:TYR:HB2	2.13	0.49
1:t:395:ASP:O	1:u:329:PRO:HB3	2.13	0.49
1:v:336:THR:OG1	1:v:352:ASN:ND2	2.46	0.49
1:v:413:GLU:HG3	1:v:426:ARG:HB2	1.95	0.49
1:w:268:THR:O	1:w:288:ARG:NH1	2.43	0.49
1:w:358:TYR:CE2	1:y:260:ALA:HB2	2.48	0.49
1:z:336:THR:OG1	1:z:352:ASN:ND2	2.46	0.49
1:z:413:GLU:HG3	1:z:426:ARG:HB2	1.95	0.49
1:4:413:GLU:HG3	1:4:426:ARG:HB2	1.95	0.49
1:6:359:ASP:OD1	1:6:359:ASP:N	2.44	0.49
1:8:276:ASN:OD1	1:8:276:ASN:N	2.45	0.49
1:A:358:TYR:CE2	1:I:260:ALA:HB2	2.48	0.48
1:B:358:TYR:CE2	1:L:260:ALA:HB2	2.48	0.48
1:B:375:LEU:HD12	1:B:392:ARG:HD3	1.95	0.48
1:B:469:SER:HA	1:L:440:ASN:HD21	1.77	0.48
1:C:148:LEU:O	1:C:149:THR:OG1	2.28	0.48
1:C:395:ASP:O	1:b:329:PRO:HB3	2.13	0.48
1:D:321:GLY:H	1:P:407:GLN:NE2	2.11	0.48
1:D:375:LEU:HD12	1:D:392:ARG:HD3	1.95	0.48
1:E:358:TYR:CE2	1:F:260:ALA:HB2	2.48	0.48
1:E:386:GLU:HG3	1:E:388:LYS:HG3	1.93	0.48
1:F:375:LEU:HD12	1:F:392:ARG:HD3	1.95	0.48
1:F:413:GLU:HG3	1:F:426:ARG:HB2	1.95	0.48
1:G:260:ALA:HB2	1:I:358:TYR:CE2	2.48	0.48
1:H:125:VAL:HG21	1:H:483:ILE:HD11	1.94	0.48
1:I:41:THR:OG1	1:I:128:TYR:HB2	2.13	0.48
1:J:334:ALA:O	1:J:348:GLN:NE2	2.38	0.48
1:L:336:THR:OG1	1:L:352:ASN:ND2	2.46	0.48
1:L:413:GLU:HG3	1:L:426:ARG:HB2	1.95	0.48
1:M:336:THR:OG1	1:M:352:ASN:ND2	2.46	0.48
1:Q:58:VAL:HG22	1:Q:513:THR:HG23	1.94	0.48
1:R:394:ILE:HD13	1:R:558:LEU:HD12	1.95	0.48
1:V:375:LEU:HD12	1:V:392:ARG:HD3	1.95	0.48
1:V:413:GLU:HG3	1:V:426:ARG:HB2	1.95	0.48
1:W:336:THR:OG1	1:W:352:ASN:ND2	2.46	0.48
1:X:336:THR:OG1	1:X:352:ASN:ND2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:413:GLU:HG3	1:X:426:ARG:HB2	1.95	0.48
1:Y:58:VAL:HG22	1:Y:513:THR:HG23	1.94	0.48
1:Y:394:ILE:HD13	1:Y:558:LEU:HD12	1.95	0.48
1:a:375:LEU:HD12	1:a:392:ARG:HD3	1.95	0.48
1:b:375:LEU:HD12	1:b:392:ARG:HD3	1.95	0.48
1:c:375:LEU:HD12	1:c:392:ARG:HD3	1.95	0.48
1:f:232:LEU:HD22	1:f:236:GLU:HB3	1.94	0.48
1:f:375:LEU:HD12	1:f:392:ARG:HD3	1.95	0.48
1:g:213:LYS:HG3	1:g:217:LYS:HE3	1.95	0.48
1:i:58:VAL:HG22	1:i:513:THR:HG23	1.94	0.48
1:i:375:LEU:HD12	1:i:392:ARG:HD3	1.95	0.48
1:j:213:LYS:HG3	1:j:217:LYS:HE3	1.95	0.48
1:k:386:GLU:HG3	1:k:388:LYS:HG3	1.93	0.48
1:o:336:THR:OG1	1:o:352:ASN:ND2	2.46	0.48
1:p:41:THR:OG1	1:p:128:TYR:HB2	2.13	0.48
1:p:375:LEU:HD12	1:p:392:ARG:HD3	1.95	0.48
1:q:394:ILE:HD13	1:q:558:LEU:HD12	1.95	0.48
1:q:440:ASN:HD21	1:r:469:SER:HA	1.77	0.48
1:s:375:LEU:HD12	1:s:392:ARG:HD3	1.95	0.48
1:t:413:GLU:HG3	1:t:426:ARG:HB2	1.95	0.48
1:x:58:VAL:HG22	1:x:513:THR:HG23	1.94	0.48
1:y:413:GLU:HG3	1:y:426:ARG:HB2	1.95	0.48
1:1:41:THR:OG1	1:1:128:TYR:HB2	2.13	0.48
1:2:359:ASP:N	1:2:359:ASP:OD1	2.44	0.48
1:4:213:LYS:HG3	1:4:217:LYS:HE3	1.95	0.48
1:4:268:THR:O	1:4:288:ARG:NH1	2.43	0.48
1:5:41:THR:OG1	1:5:128:TYR:HB2	2.13	0.48
1:7:58:VAL:HG22	1:7:513:THR:HG23	1.94	0.48
1:7:336:THR:OG1	1:7:352:ASN:ND2	2.46	0.48
1:7:394:ILE:HD13	1:7:558:LEU:HD12	1.95	0.48
1:8:379:SER:OG	1:8:451:ASP:OD2	2.26	0.48
1:B:41:THR:OG1	1:B:128:TYR:HB2	2.13	0.48
1:C:213:LYS:HG3	1:C:217:LYS:HE3	1.95	0.48
1:E:268:THR:O	1:E:288:ARG:NH1	2.43	0.48
1:E:375:LEU:HD12	1:E:392:ARG:HD3	1.95	0.48
1:F:469:SER:HA	1:Q:440:ASN:HD21	1.78	0.48
1:H:41:THR:OG1	1:H:128:TYR:HB2	2.13	0.48
1:H:394:ILE:HD13	1:H:558:LEU:HD12	1.95	0.48
1:J:260:ALA:HB2	1:L:358:TYR:CE2	2.48	0.48
1:N:58:VAL:HG22	1:N:513:THR:HG23	1.94	0.48
1:N:213:LYS:HG3	1:N:217:LYS:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:260:ALA:HB2	1:P:358:TYR:CE2	2.48	0.48
1:O:329:PRO:HB3	1:n:395:ASP:O	2.14	0.48
1:O:358:TYR:CE2	1:n:260:ALA:HB2	2.48	0.48
1:R:58:VAL:HG22	1:R:513:THR:HG23	1.94	0.48
1:T:213:LYS:HG3	1:T:217:LYS:HE3	1.95	0.48
1:T:407:GLN:NE2	1:d:321:GLY:H	2.11	0.48
1:U:375:LEU:HD12	1:U:392:ARG:HD3	1.95	0.48
1:V:41:THR:OG1	1:V:128:TYR:HB2	2.13	0.48
1:W:359:ASP:N	1:W:359:ASP:OD1	2.44	0.48
1:Y:375:LEU:HD12	1:Y:392:ARG:HD3	1.95	0.48
1:Z:329:PRO:HB3	1:3:395:ASP:O	2.14	0.48
1:a:395:ASP:O	1:8:329:PRO:HB3	2.13	0.48
1:b:232:LEU:HD22	1:b:236:GLU:HB3	1.94	0.48
1:b:394:ILE:HD13	1:b:558:LEU:HD12	1.95	0.48
1:c:469:SER:HA	1:p:440:ASN:HD21	1.77	0.48
1:d:260:ALA:HB2	1:l:358:TYR:CE2	2.48	0.48
1:d:395:ASP:O	1:l:329:PRO:HB3	2.14	0.48
1:e:213:LYS:HG3	1:e:217:LYS:HE3	1.95	0.48
1:e:375:LEU:HD12	1:e:392:ARG:HD3	1.95	0.48
1:f:394:ILE:HD13	1:f:558:LEU:HD12	1.95	0.48
1:g:394:ILE:HD13	1:g:558:LEU:HD12	1.95	0.48
1:h:336:THR:OG1	1:h:352:ASN:ND2	2.46	0.48
1:j:413:GLU:HG3	1:j:426:ARG:HB2	1.95	0.48
1:k:375:LEU:HD12	1:k:392:ARG:HD3	1.95	0.48
1:m:213:LYS:HG3	1:m:217:LYS:HE3	1.95	0.48
1:m:407:GLN:NE2	1:n:321:GLY:H	2.11	0.48
1:n:268:THR:O	1:n:288:ARG:NH1	2.43	0.48
1:o:413:GLU:HG3	1:o:426:ARG:HB2	1.95	0.48
1:p:413:GLU:HG3	1:p:426:ARG:HB2	1.95	0.48
1:s:311:GLN:O	1:s:312:SER:OG	2.25	0.48
1:t:260:ALA:HB2	1:u:358:TYR:CE2	2.48	0.48
1:u:41:THR:OG1	1:u:128:TYR:HB2	2.13	0.48
1:w:375:LEU:HD12	1:w:392:ARG:HD3	1.95	0.48
1:y:375:LEU:HD12	1:y:392:ARG:HD3	1.95	0.48
1:z:260:ALA:HB2	1:l:358:TYR:CE2	2.48	0.48
1:1:375:LEU:HD12	1:1:392:ARG:HD3	1.95	0.48
1:2:334:ALA:O	1:2:348:GLN:NE2	2.38	0.48
1:2:413:GLU:HG3	1:2:426:ARG:HB2	1.95	0.48
1:3:125:VAL:HG21	1:3:483:ILE:HD11	1.94	0.48
1:3:375:LEU:HD12	1:3:392:ARG:HD3	1.95	0.48
1:5:394:ILE:HD13	1:5:558:LEU:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:232:LEU:HD22	1:6:236:GLU:HB3	1.94	0.48
1:6:336:THR:OG1	1:6:352:ASN:ND2	2.46	0.48
1:7:148:LEU:O	1:7:149:THR:OG1	2.28	0.48
1:7:268:THR:O	1:7:288:ARG:NH1	2.43	0.48
1:8:92:GLY:O	1:8:485:VAL:N	2.38	0.48
1:A:329:PRO:HB3	1:I:395:ASP:O	2.13	0.48
1:C:394:ILE:HD13	1:C:558:LEU:HD12	1.96	0.48
1:D:336:THR:OG1	1:D:352:ASN:ND2	2.46	0.48
1:E:440:ASN:HD21	1:Q:469:SER:HA	1.77	0.48
1:F:213:LYS:HG3	1:F:217:LYS:HE3	1.95	0.48
1:G:92:GLY:O	1:G:485:VAL:N	2.38	0.48
1:J:413:GLU:HG3	1:J:426:ARG:HB2	1.95	0.48
1:K:336:THR:OG1	1:K:352:ASN:ND2	2.46	0.48
1:P:413:GLU:HG3	1:P:426:ARG:HB2	1.95	0.48
1:R:440:ASN:HD21	1:S:469:SER:HA	1.77	0.48
1:U:544:THR:OG1	1:V:527:ARG:NH1	2.39	0.48
1:V:148:LEU:O	1:V:149:THR:OG1	2.28	0.48
1:V:260:ALA:HB2	1:e:358:TYR:CE2	2.48	0.48
1:V:329:PRO:HB3	1:X:395:ASP:O	2.14	0.48
1:V:440:ASN:HD21	1:e:469:SER:HA	1.77	0.48
1:W:232:LEU:HD22	1:W:236:GLU:HB3	1.94	0.48
1:Y:148:LEU:O	1:Y:149:THR:OG1	2.28	0.48
1:Y:413:GLU:HG3	1:Y:426:ARG:HB2	1.95	0.48
1:a:213:LYS:HG3	1:a:217:LYS:HE3	1.95	0.48
1:c:213:LYS:HG3	1:c:217:LYS:HE3	1.95	0.48
1:c:358:TYR:CE2	1:p:260:ALA:HB2	2.48	0.48
1:f:329:PRO:HB3	1:g:395:ASP:O	2.14	0.48
1:i:213:LYS:HG3	1:i:217:LYS:HE3	1.95	0.48
1:i:260:ALA:HB2	1:j:358:TYR:CE2	2.48	0.48
1:o:395:ASP:O	1:p:329:PRO:HB3	2.14	0.48
1:q:58:VAL:HG22	1:q:513:THR:HG23	1.94	0.48
1:t:92:GLY:O	1:t:485:VAL:N	2.38	0.48
1:u:260:ALA:HB2	1:v:358:TYR:CE2	2.48	0.48
1:u:394:ILE:HD13	1:u:558:LEU:HD12	1.95	0.48
1:w:440:ASN:HD21	1:x:469:SER:HA	1.77	0.48
1:x:395:ASP:O	1:y:329:PRO:HB3	2.13	0.48
1:y:213:LYS:HG3	1:y:217:LYS:HE3	1.95	0.48
1:z:293:ASN:HD21	1:1:319:ALA:HA	1.76	0.48
1:z:358:TYR:CE2	1:2:260:ALA:HB2	2.48	0.48
1:z:394:ILE:HD13	1:z:558:LEU:HD12	1.96	0.48
1:1:413:GLU:HG3	1:1:426:ARG:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:41:THR:OG1	1:4:128:TYR:HB2	2.13	0.48
1:4:336:THR:OG1	1:4:352:ASN:ND2	2.46	0.48
1:5:125:VAL:HG21	1:5:483:ILE:HD11	1.94	0.48
1:7:375:LEU:HD12	1:7:392:ARG:HD3	1.95	0.48
1:7:413:GLU:HG3	1:7:426:ARG:HB2	1.95	0.48
1:8:375:LEU:HD12	1:8:392:ARG:HD3	1.95	0.48
1:B:413:GLU:HG3	1:B:426:ARG:HB2	1.95	0.48
1:E:92:GLY:O	1:E:485:VAL:N	2.38	0.48
1:F:329:PRO:HB3	1:Q:395:ASP:O	2.14	0.48
1:F:358:TYR:CE2	1:Q:260:ALA:HB2	2.48	0.48
1:I:394:ILE:HD13	1:I:558:LEU:HD12	1.95	0.48
1:J:41:THR:OG1	1:J:128:TYR:HB2	2.13	0.48
1:J:359:ASP:N	1:J:359:ASP:OD1	2.44	0.48
1:L:394:ILE:HD13	1:L:558:LEU:HD12	1.96	0.48
1:M:125:VAL:HG21	1:M:483:ILE:HD11	1.94	0.48
1:M:148:LEU:O	1:M:149:THR:OG1	2.28	0.48
1:O:413:GLU:HG3	1:O:426:ARG:HB2	1.95	0.48
1:R:358:TYR:CE2	1:U:260:ALA:HB2	2.48	0.48
1:S:395:ASP:O	1:U:329:PRO:HB3	2.14	0.48
1:U:213:LYS:HG3	1:U:217:LYS:HE3	1.95	0.48
1:U:311:GLN:O	1:U:312:SER:OG	2.25	0.48
1:V:311:GLN:O	1:V:312:SER:OG	2.25	0.48
1:W:440:ASN:HD21	1:Y:469:SER:HA	1.77	0.48
1:X:394:ILE:HD13	1:X:558:LEU:HD12	1.96	0.48
1:Z:336:THR:OG1	1:Z:352:ASN:ND2	2.46	0.48
1:Z:375:LEU:HD12	1:Z:392:ARG:HD3	1.95	0.48
1:a:125:VAL:HG21	1:a:483:ILE:HD11	1.94	0.48
1:a:336:THR:OG1	1:a:352:ASN:ND2	2.46	0.48
1:b:58:VAL:HG22	1:b:513:THR:HG23	1.94	0.48
1:e:92:GLY:O	1:e:485:VAL:N	2.38	0.48
1:k:336:THR:OG1	1:k:352:ASN:ND2	2.46	0.48
1:l:413:GLU:HG3	1:l:426:ARG:HB2	1.95	0.48
1:o:394:ILE:HD13	1:o:558:LEU:HD12	1.96	0.48
1:p:334:ALA:O	1:p:348:GLN:NE2	2.38	0.48
1:q:41:THR:OG1	1:q:128:TYR:HB2	2.13	0.48
1:q:358:TYR:CE2	1:s:260:ALA:HB2	2.48	0.48
1:r:395:ASP:O	1:s:329:PRO:HB3	2.14	0.48
1:s:213:LYS:HG3	1:s:217:LYS:HE3	1.95	0.48
1:s:276:ASN:OD1	1:s:276:ASN:N	2.45	0.48
1:s:394:ILE:HD13	1:s:558:LEU:HD12	1.96	0.48
1:v:268:THR:O	1:v:288:ARG:NH1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:92:GLY:O	1:w:485:VAL:N	2.38	0.48
1:l:92:GLY:O	1:l:485:VAL:N	2.38	0.48
1:3:213:LYS:HG3	1:3:217:LYS:HE3	1.95	0.48
1:3:358:TYR:CE2	1:4:260:ALA:HB2	2.48	0.48
1:3:413:GLU:HG3	1:3:426:ARG:HB2	1.95	0.48
1:A:260:ALA:HB2	1:G:358:TYR:CE2	2.48	0.48
1:A:527:ARG:NH1	1:F:544:THR:OG1	2.38	0.48
1:C:58:VAL:HG22	1:C:513:THR:HG23	1.94	0.48
1:E:544:THR:OG1	1:P:527:ARG:NH1	2.38	0.48
1:G:394:ILE:HD13	1:G:558:LEU:HD12	1.96	0.48
1:G:537:PHE:CE1	1:G:559:GLU:HA	2.49	0.48
1:J:440:ASN:HD21	1:L:469:SER:HA	1.77	0.48
1:K:41:THR:OG1	1:K:128:TYR:HB2	2.13	0.48
1:K:260:ALA:HB2	1:a:358:TYR:CE2	2.48	0.48
1:O:537:PHE:CE1	1:O:559:GLU:HA	2.49	0.48
1:U:394:ILE:HD13	1:U:558:LEU:HD12	1.96	0.48
1:W:395:ASP:O	1:Y:329:PRO:HB3	2.14	0.48
1:W:537:PHE:CE1	1:W:559:GLU:HA	2.49	0.48
1:Y:268:THR:O	1:Y:288:ARG:NH1	2.43	0.48
1:Y:537:PHE:CE1	1:Y:559:GLU:HA	2.49	0.48
1:a:413:GLU:HG3	1:a:426:ARG:HB2	1.95	0.48
1:a:537:PHE:CE1	1:a:559:GLU:HA	2.49	0.48
1:d:268:THR:O	1:d:288:ARG:NH1	2.43	0.48
1:d:394:ILE:HD13	1:d:558:LEU:HD12	1.95	0.48
1:f:358:TYR:CE2	1:g:260:ALA:HB2	2.49	0.48
1:g:58:VAL:HG22	1:g:513:THR:HG23	1.94	0.48
1:j:527:ARG:NH1	1:w:544:THR:OG1	2.39	0.48
1:l:537:PHE:CE1	1:l:559:GLU:HA	2.49	0.48
1:n:394:ILE:HD13	1:n:558:LEU:HD12	1.95	0.48
1:p:336:THR:OG1	1:p:352:ASN:ND2	2.46	0.48
1:p:394:ILE:HD13	1:p:558:LEU:HD12	1.96	0.48
1:t:358:TYR:CE2	1:v:260:ALA:HB2	2.48	0.48
1:t:537:PHE:CE1	1:t:559:GLU:HA	2.49	0.48
1:u:395:ASP:O	1:v:329:PRO:HB3	2.14	0.48
1:w:213:LYS:HG3	1:w:217:LYS:HE3	1.95	0.48
1:w:386:GLU:HG3	1:w:388:LYS:HG3	1.93	0.48
1:2:268:THR:O	1:2:288:ARG:NH1	2.43	0.48
1:3:537:PHE:CE1	1:3:559:GLU:HA	2.49	0.48
1:6:395:ASP:O	1:7:329:PRO:HB3	2.14	0.48
1:7:537:PHE:CE1	1:7:559:GLU:HA	2.49	0.48
1:8:213:LYS:HG3	1:8:217:LYS:HE3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:336:THR:OG1	1:8:352:ASN:ND2	2.46	0.48
1:E:213:LYS:HG3	1:E:217:LYS:HE3	1.95	0.48
1:G:336:THR:OG1	1:G:352:ASN:ND2	2.46	0.48
1:G:375:LEU:HD12	1:G:392:ARG:HD3	1.95	0.48
1:J:58:VAL:HG22	1:J:513:THR:HG23	1.94	0.48
1:L:268:THR:HG21	1:L:289:TYR:HB2	1.96	0.48
1:N:395:ASP:O	1:P:329:PRO:HB3	2.14	0.48
1:O:268:THR:HG21	1:O:289:TYR:HB2	1.96	0.48
1:O:395:ASP:O	1:m:329:PRO:HB3	2.14	0.48
1:T:329:PRO:HB3	1:l:395:ASP:O	2.14	0.48
1:U:58:VAL:HG22	1:U:513:THR:HG23	1.94	0.48
1:U:276:ASN:OD1	1:U:276:ASN:N	2.45	0.48
1:V:394:ILE:HD13	1:V:558:LEU:HD12	1.96	0.48
1:W:58:VAL:HG22	1:W:513:THR:HG23	1.94	0.48
1:W:213:LYS:HG3	1:W:217:LYS:HE3	1.95	0.48
1:W:260:ALA:HB2	1:Y:358:TYR:CE2	2.48	0.48
1:W:268:THR:HG21	1:W:289:TYR:HB2	1.96	0.48
1:X:41:THR:OG1	1:X:128:TYR:HB2	2.13	0.48
1:Z:92:GLY:O	1:Z:485:VAL:N	2.38	0.48
1:Z:213:LYS:HG3	1:Z:217:LYS:HE3	1.95	0.48
1:Z:268:THR:HG21	1:Z:289:TYR:HB2	1.96	0.48
1:a:232:LEU:HD22	1:a:236:GLU:HB3	1.94	0.48
1:c:58:VAL:HG22	1:c:513:THR:HG23	1.94	0.48
1:d:58:VAL:HG22	1:d:513:THR:HG23	1.94	0.48
1:e:58:VAL:HG22	1:e:513:THR:HG23	1.94	0.48
1:f:58:VAL:HG22	1:f:513:THR:HG23	1.94	0.48
1:f:407:GLN:NE2	1:h:321:GLY:H	2.11	0.48
1:g:375:LEU:HD12	1:g:392:ARG:HD3	1.95	0.48
1:g:469:SER:HA	1:h:440:ASN:HD21	1.79	0.48
1:h:125:VAL:HG21	1:h:483:ILE:HD11	1.94	0.48
1:h:394:ILE:HD13	1:h:558:LEU:HD12	1.95	0.48
1:i:395:ASP:O	1:j:329:PRO:HB3	2.14	0.48
1:j:395:ASP:O	1:k:329:PRO:HB3	2.14	0.48
1:n:58:VAL:HG22	1:n:513:THR:HG23	1.94	0.48
1:t:336:THR:OG1	1:t:352:ASN:ND2	2.46	0.48
1:t:375:LEU:HD12	1:t:392:ARG:HD3	1.95	0.48
1:t:379:SER:OG	1:t:451:ASP:OD2	2.26	0.48
1:t:394:ILE:HD13	1:t:558:LEU:HD12	1.96	0.48
1:v:375:LEU:HD12	1:v:392:ARG:HD3	1.95	0.48
1:v:527:ARG:NH1	1:y:544:THR:OG1	2.39	0.48
1:w:260:ALA:HB2	1:x:358:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:395:ASP:O	1:x:329:PRO:HB3	2.14	0.48
1:x:268:THR:HG21	1:x:289:TYR:HB2	1.96	0.48
1:x:413:GLU:HG3	1:x:426:ARG:HB2	1.95	0.48
1:z:268:THR:HG21	1:z:289:TYR:HB2	1.96	0.48
1:2:41:THR:OG1	1:2:128:TYR:HB2	2.13	0.48
1:2:58:VAL:HG22	1:2:513:THR:HG23	1.94	0.48
1:3:232:LEU:HD22	1:3:236:GLU:HB3	1.94	0.48
1:3:336:THR:OG1	1:3:352:ASN:ND2	2.46	0.48
1:5:260:ALA:HB2	1:6:358:TYR:CE2	2.48	0.48
1:5:407:GLN:NE2	1:6:321:GLY:H	2.11	0.48
1:5:469:SER:HA	1:7:440:ASN:HD21	1.77	0.48
1:6:58:VAL:HG22	1:6:513:THR:HG23	1.94	0.48
1:6:213:LYS:HG3	1:6:217:LYS:HE3	1.95	0.48
1:6:268:THR:HG21	1:6:289:TYR:HB2	1.96	0.48
1:6:440:ASN:HD21	1:7:469:SER:HA	1.77	0.48
1:6:537:PHE:CE1	1:6:559:GLU:HA	2.49	0.48
1:A:268:THR:O	1:A:288:ARG:NH1	2.43	0.48
1:A:375:LEU:HD12	1:A:392:ARG:HD3	1.95	0.48
1:B:260:ALA:HB2	1:J:358:TYR:CE2	2.48	0.48
1:C:375:LEU:HD12	1:C:392:ARG:HD3	1.95	0.48
1:D:276:ASN:OD1	1:D:276:ASN:N	2.45	0.48
1:D:329:PRO:HB3	1:P:395:ASP:O	2.14	0.48
1:E:260:ALA:HB2	1:Q:358:TYR:CE2	2.48	0.48
1:G:379:SER:OG	1:G:451:ASP:OD2	2.26	0.48
1:H:375:LEU:HD12	1:H:392:ARG:HD3	1.95	0.48
1:H:407:GLN:NE2	1:W:321:GLY:H	2.11	0.48
1:K:358:TYR:CE2	1:8:260:ALA:HB2	2.48	0.48
1:K:537:PHE:CE1	1:K:559:GLU:HA	2.49	0.48
1:M:394:ILE:HD13	1:M:558:LEU:HD12	1.96	0.48
1:M:413:GLU:HG3	1:M:426:ARG:HB2	1.95	0.48
1:N:394:ILE:HD13	1:N:558:LEU:HD12	1.95	0.48
1:O:463:LYS:HE3	1:n:467:PHE:O	2.14	0.48
1:Q:268:THR:HG21	1:Q:289:TYR:HB2	1.96	0.48
1:R:41:THR:OG1	1:R:128:TYR:HB2	2.13	0.48
1:S:92:GLY:O	1:S:485:VAL:N	2.38	0.48
1:T:260:ALA:HB2	1:d:358:TYR:CE2	2.48	0.48
1:T:413:GLU:HG3	1:T:426:ARG:HB2	1.95	0.48
1:U:268:THR:HG21	1:U:289:TYR:HB2	1.96	0.48
1:V:336:THR:OG1	1:V:352:ASN:ND2	2.46	0.48
1:c:395:ASP:O	1:o:329:PRO:HB3	2.13	0.48
1:d:467:PHE:O	1:l:463:LYS:HE3	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:268:THR:O	1:f:288:ARG:NH1	2.43	0.48
1:f:319:ALA:HA	1:g:293:ASN:HD21	1.78	0.48
1:f:359:ASP:OD1	1:f:359:ASP:N	2.44	0.48
1:h:148:LEU:O	1:h:149:THR:OG1	2.28	0.48
1:h:213:LYS:HG3	1:h:217:LYS:HE3	1.95	0.48
1:h:413:GLU:HG3	1:h:426:ARG:HB2	1.95	0.48
1:k:394:ILE:HD13	1:k:558:LEU:HD12	1.95	0.48
1:k:413:GLU:HG3	1:k:426:ARG:HB2	1.95	0.48
1:l:92:GLY:O	1:l:485:VAL:N	2.38	0.48
1:l:268:THR:HG21	1:l:289:TYR:HB2	1.96	0.48
1:n:268:THR:HG21	1:n:289:TYR:HB2	1.96	0.48
1:o:41:THR:OG1	1:o:128:TYR:HB2	2.13	0.48
1:s:58:VAL:HG22	1:s:513:THR:HG23	1.94	0.48
1:s:268:THR:HG21	1:s:289:TYR:HB2	1.96	0.48
1:s:413:GLU:HG3	1:s:426:ARG:HB2	1.95	0.48
1:t:407:GLN:NE2	1:u:321:GLY:H	2.11	0.48
1:u:311:GLN:O	1:u:312:SER:OG	2.25	0.48
1:u:375:LEU:HD12	1:u:392:ARG:HD3	1.95	0.48
1:z:469:SER:HA	1:2:440:ASN:HD21	1.77	0.48
1:3:268:THR:HG21	1:3:289:TYR:HB2	1.96	0.48
1:4:537:PHE:CE1	1:4:559:GLU:HA	2.49	0.48
1:6:260:ALA:HB2	1:7:358:TYR:CE2	2.48	0.48
1:6:311:GLN:O	1:6:312:SER:OG	2.25	0.48
1:8:268:THR:HG21	1:8:289:TYR:HB2	1.96	0.48
1:B:92:GLY:O	1:B:485:VAL:N	2.38	0.48
1:C:311:GLN:O	1:C:312:SER:OG	2.25	0.48
1:C:537:PHE:CE1	1:C:559:GLU:HA	2.49	0.48
1:D:260:ALA:HB2	1:N:358:TYR:CE2	2.48	0.48
1:E:268:THR:HG21	1:E:289:TYR:HB2	1.96	0.48
1:H:260:ALA:HB2	1:W:358:TYR:CE2	2.48	0.48
1:H:469:SER:HA	1:Y:440:ASN:HD21	1.77	0.48
1:I:537:PHE:CE1	1:I:559:GLU:HA	2.49	0.48
1:J:268:THR:O	1:J:288:ARG:NH1	2.43	0.48
1:O:375:LEU:HD12	1:O:392:ARG:HD3	1.95	0.48
1:Q:413:GLU:HG3	1:Q:426:ARG:HB2	1.95	0.48
1:R:375:LEU:HD12	1:R:392:ARG:HD3	1.95	0.48
1:S:375:LEU:HD12	1:S:392:ARG:HD3	1.95	0.48
1:U:413:GLU:HG3	1:U:426:ARG:HB2	1.95	0.48
1:X:359:ASP:N	1:X:359:ASP:OD1	2.44	0.48
1:X:375:LEU:HD12	1:X:392:ARG:HD3	1.95	0.48
1:Z:58:VAL:HG22	1:Z:513:THR:HG23	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:268:THR:HG21	1:a:289:TYR:HB2	1.96	0.48
1:b:413:GLU:HG3	1:b:426:ARG:HB2	1.95	0.48
1:c:92:GLY:O	1:c:485:VAL:N	2.38	0.48
1:f:413:GLU:HG3	1:f:426:ARG:HB2	1.95	0.48
1:g:311:GLN:O	1:g:312:SER:OG	2.25	0.48
1:i:358:TYR:CE2	1:k:260:ALA:HB2	2.48	0.48
1:j:537:PHE:CE1	1:j:559:GLU:HA	2.49	0.48
1:l:375:LEU:HD12	1:l:392:ARG:HD3	1.95	0.48
1:m:260:ALA:HB2	1:n:358:TYR:CE2	2.48	0.48
1:m:413:GLU:HG3	1:m:426:ARG:HB2	1.95	0.48
1:q:375:LEU:HD12	1:q:392:ARG:HD3	1.95	0.48
1:q:395:ASP:O	1:r:329:PRO:HB3	2.14	0.48
1:r:375:LEU:HD12	1:r:392:ARG:HD3	1.95	0.48
1:r:394:ILE:HD13	1:r:558:LEU:HD12	1.95	0.48
1:u:537:PHE:CE1	1:u:559:GLU:HA	2.49	0.48
1:5:375:LEU:HD12	1:5:392:ARG:HD3	1.95	0.48
1:7:41:THR:OG1	1:7:128:TYR:HB2	2.13	0.48
1:8:58:VAL:HG22	1:8:513:THR:HG23	1.94	0.48
1:A:537:PHE:CE1	1:A:559:GLU:HA	2.49	0.48
1:B:76:LEU:HD22	1:B:84:TRP:HZ3	1.79	0.48
1:C:268:THR:HG21	1:C:289:TYR:HB2	1.96	0.48
1:D:413:GLU:HG3	1:D:426:ARG:HB2	1.95	0.48
1:E:41:THR:OG1	1:E:128:TYR:HB2	2.13	0.48
1:G:407:GLN:NE2	1:I:321:GLY:H	2.11	0.48
1:I:375:LEU:HD12	1:I:392:ARG:HD3	1.95	0.48
1:M:213:LYS:HG3	1:M:217:LYS:HE3	1.95	0.48
1:M:321:GLY:H	1:b:407:GLN:NE2	2.11	0.48
1:M:329:PRO:HB3	1:b:395:ASP:O	2.13	0.48
1:O:260:ALA:HB2	1:m:358:TYR:CE2	2.48	0.48
1:R:268:THR:HG21	1:R:289:TYR:HB2	1.96	0.48
1:R:329:PRO:HB3	1:U:395:ASP:O	2.14	0.48
1:R:395:ASP:O	1:S:329:PRO:HB3	2.14	0.48
1:T:358:TYR:CE2	1:l:260:ALA:HB2	2.48	0.48
1:X:268:THR:HG21	1:X:289:TYR:HB2	1.96	0.48
1:Z:260:ALA:HB2	1:4:358:TYR:CE2	2.48	0.48
1:b:537:PHE:CE1	1:b:559:GLU:HA	2.49	0.48
1:d:268:THR:HG21	1:d:289:TYR:HB2	1.96	0.48
1:f:537:PHE:CE1	1:f:559:GLU:HA	2.49	0.48
1:g:268:THR:HG21	1:g:289:TYR:HB2	1.96	0.48
1:g:329:PRO:HB3	1:h:395:ASP:O	2.13	0.48
1:i:394:ILE:HD13	1:i:558:LEU:HD12	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:276:ASN:OD1	1:k:276:ASN:N	2.45	0.48
1:o:76:LEU:HD22	1:o:84:TRP:HZ3	1.79	0.48
1:q:268:THR:HG21	1:q:289:TYR:HB2	1.96	0.48
1:r:92:GLY:O	1:r:485:VAL:N	2.38	0.48
1:v:537:PHE:CE1	1:v:559:GLU:HA	2.49	0.48
1:w:268:THR:HG21	1:w:289:TYR:HB2	1.96	0.48
1:w:469:SER:HA	1:y:440:ASN:HD21	1.77	0.48
1:x:276:ASN:OD1	1:x:276:ASN:N	2.45	0.48
1:1:260:ALA:HB2	1:2:358:TYR:CE2	2.48	0.48
1:5:358:TYR:CE2	1:7:260:ALA:HB2	2.48	0.48
1:D:394:ILE:HD13	1:D:558:LEU:HD12	1.95	0.48
1:E:336:THR:OG1	1:E:352:ASN:ND2	2.46	0.48
1:F:41:THR:OG1	1:F:128:TYR:HB2	2.13	0.48
1:G:76:LEU:HD22	1:G:84:TRP:HZ3	1.79	0.48
1:H:358:TYR:CE2	1:Y:260:ALA:HB2	2.48	0.48
1:M:76:LEU:HD22	1:M:84:TRP:HZ3	1.79	0.48
1:N:368:SER:O	1:P:330:PRO:HG3	2.14	0.48
1:N:467:PHE:O	1:P:463:LYS:HE3	2.14	0.48
1:P:537:PHE:CE1	1:P:559:GLU:HA	2.49	0.48
1:Q:276:ASN:OD1	1:Q:276:ASN:N	2.45	0.48
1:R:213:LYS:HG3	1:R:217:LYS:HE3	1.95	0.48
1:S:394:ILE:HD13	1:S:558:LEU:HD12	1.96	0.48
1:U:76:LEU:HD22	1:U:84:TRP:HZ3	1.79	0.48
1:V:76:LEU:HD22	1:V:84:TRP:HZ3	1.79	0.48
1:V:213:LYS:HG3	1:V:217:LYS:HE3	1.95	0.48
1:W:334:ALA:O	1:W:348:GLN:NE2	2.38	0.48
1:X:76:LEU:HD22	1:X:84:TRP:HZ3	1.79	0.48
1:X:329:PRO:HB3	1:e:395:ASP:O	2.14	0.48
1:X:537:PHE:CE1	1:X:559:GLU:HA	2.49	0.48
1:Y:41:THR:OG1	1:Y:128:TYR:HB2	2.13	0.48
1:Y:268:THR:HG21	1:Y:289:TYR:HB2	1.96	0.48
1:b:268:THR:O	1:b:288:ARG:NH1	2.43	0.48
1:b:359:ASP:N	1:b:359:ASP:OD1	2.44	0.48
1:i:368:SER:O	1:j:330:PRO:HG3	2.14	0.48
1:i:467:PHE:O	1:j:463:LYS:HE3	2.14	0.48
1:o:268:THR:HG21	1:o:289:TYR:HB2	1.96	0.48
1:o:537:PHE:CE1	1:o:559:GLU:HA	2.49	0.48
1:p:76:LEU:HD22	1:p:84:TRP:HZ3	1.79	0.48
1:p:213:LYS:HG3	1:p:217:LYS:HE3	1.95	0.48
1:s:76:LEU:HD22	1:s:84:TRP:HZ3	1.79	0.48
1:w:336:THR:OG1	1:w:352:ASN:ND2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:537:PHE:CE1	1:x:559:GLU:HA	2.49	0.48
1:y:41:THR:OG1	1:y:128:TYR:HB2	2.13	0.48
1:y:537:PHE:CE1	1:y:559:GLU:HA	2.49	0.48
1:z:213:LYS:HG3	1:z:217:LYS:HE3	1.95	0.48
1:1:76:LEU:HD22	1:1:84:TRP:HZ3	1.79	0.48
1:1:268:THR:O	1:1:288:ARG:NH1	2.43	0.48
1:A:395:ASP:O	1:G:329:PRO:HB3	2.13	0.47
1:B:268:THR:O	1:B:288:ARG:NH1	2.43	0.47
1:D:76:LEU:HD22	1:D:84:TRP:HZ3	1.79	0.47
1:D:358:TYR:CE2	1:P:260:ALA:HB2	2.48	0.47
1:D:395:ASP:O	1:N:329:PRO:HB3	2.14	0.47
1:E:368:SER:O	1:Q:330:PRO:HG3	2.14	0.47
1:F:537:PHE:CE1	1:F:559:GLU:HA	2.49	0.47
1:H:76:LEU:HD22	1:H:84:TRP:HZ3	1.79	0.47
1:H:213:LYS:HG3	1:H:217:LYS:HE3	1.95	0.47
1:H:395:ASP:O	1:W:329:PRO:HB3	2.14	0.47
1:I:268:THR:HG21	1:I:289:TYR:HB2	1.96	0.47
1:I:311:GLN:O	1:I:312:SER:OG	2.25	0.47
1:J:375:LEU:HD12	1:J:392:ARG:HD3	1.95	0.47
1:J:467:PHE:O	1:L:463:LYS:HE3	2.14	0.47
1:J:537:PHE:CE1	1:J:559:GLU:HA	2.49	0.47
1:K:368:SER:O	1:a:330:PRO:HG3	2.14	0.47
1:L:213:LYS:HG3	1:L:217:LYS:HE3	1.95	0.47
1:L:359:ASP:OD1	1:L:359:ASP:N	2.44	0.47
1:N:413:GLU:HG3	1:N:426:ARG:HB2	1.95	0.47
1:O:92:GLY:O	1:O:485:VAL:N	2.38	0.47
1:Q:537:PHE:CE1	1:Q:559:GLU:HA	2.49	0.47
1:R:330:PRO:HG3	1:U:368:SER:O	2.15	0.47
1:R:537:PHE:CE1	1:R:559:GLU:HA	2.49	0.47
1:S:148:LEU:O	1:S:149:THR:OG1	2.28	0.47
1:S:467:PHE:O	1:U:463:LYS:HE3	2.14	0.47
1:T:359:ASP:OD1	1:T:359:ASP:N	2.44	0.47
1:Z:537:PHE:CE1	1:Z:559:GLU:HA	2.49	0.47
1:g:268:THR:O	1:g:288:ARG:NH1	2.43	0.47
1:g:463:LYS:HE3	1:h:467:PHE:O	2.14	0.47
1:g:537:PHE:CE1	1:g:559:GLU:HA	2.49	0.47
1:i:329:PRO:HB3	1:k:395:ASP:O	2.14	0.47
1:i:413:GLU:HG3	1:i:426:ARG:HB2	1.95	0.47
1:n:213:LYS:HG3	1:n:217:LYS:HE3	1.95	0.47
1:o:375:LEU:HD12	1:o:392:ARG:HD3	1.95	0.47
1:q:213:LYS:HG3	1:q:217:LYS:HE3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:329:PRO:HB3	1:s:395:ASP:O	2.14	0.47
1:q:359:ASP:OD1	1:q:359:ASP:N	2.44	0.47
1:q:537:PHE:CE1	1:q:559:GLU:HA	2.49	0.47
1:r:467:PHE:O	1:s:463:LYS:HE3	2.14	0.47
1:t:76:LEU:HD22	1:t:84:TRP:HZ3	1.79	0.47
1:u:268:THR:HG21	1:u:289:TYR:HB2	1.96	0.47
1:w:41:THR:OG1	1:w:128:TYR:HB2	2.13	0.47
1:x:76:LEU:HD22	1:x:84:TRP:HZ3	1.79	0.47
1:2:537:PHE:CE1	1:2:559:GLU:HA	2.49	0.47
1:3:329:PRO:HB3	1:4:395:ASP:O	2.13	0.47
1:3:330:PRO:HG3	1:4:368:SER:O	2.14	0.47
1:5:76:LEU:HD22	1:5:84:TRP:HZ3	1.79	0.47
1:5:329:PRO:HB3	1:7:395:ASP:O	2.14	0.47
1:5:395:ASP:O	1:6:329:PRO:HB3	2.14	0.47
1:7:268:THR:HG21	1:7:289:TYR:HB2	1.96	0.47
1:A:330:PRO:HG3	1:I:368:SER:O	2.15	0.47
1:C:329:PRO:HB3	1:M:395:ASP:O	2.14	0.47
1:C:463:LYS:HE3	1:M:467:PHE:O	2.14	0.47
1:E:463:LYS:HE3	1:F:467:PHE:O	2.14	0.47
1:H:329:PRO:HB3	1:Y:395:ASP:O	2.14	0.47
1:K:330:PRO:HG3	1:8:368:SER:O	2.14	0.47
1:K:394:ILE:HD13	1:K:558:LEU:HD12	1.96	0.47
1:K:395:ASP:O	1:a:329:PRO:HB3	2.13	0.47
1:O:76:LEU:HD22	1:O:84:TRP:HZ3	1.79	0.47
1:O:330:PRO:HG3	1:n:368:SER:O	2.15	0.47
1:Q:213:LYS:HG3	1:Q:217:LYS:HE3	1.95	0.47
1:V:463:LYS:HE3	1:X:467:PHE:O	2.14	0.47
1:X:379:SER:OG	1:X:451:ASP:OD2	2.26	0.47
1:Z:394:ILE:HD13	1:Z:558:LEU:HD12	1.96	0.47
1:Z:463:LYS:HE3	1:3:467:PHE:O	2.14	0.47
1:a:467:PHE:O	1:8:463:LYS:HE3	2.14	0.47
1:b:213:LYS:HG3	1:b:217:LYS:HE3	1.95	0.47
1:d:213:LYS:HG3	1:d:217:LYS:HE3	1.95	0.47
1:d:368:SER:O	1:l:330:PRO:HG3	2.15	0.47
1:f:213:LYS:HG3	1:f:217:LYS:HE3	1.95	0.47
1:f:395:ASP:O	1:h:329:PRO:HB3	2.14	0.47
1:f:469:SER:HA	1:g:440:ASN:HD21	1.79	0.47
1:h:76:LEU:HD22	1:h:84:TRP:HZ3	1.79	0.47
1:j:76:LEU:HD22	1:j:84:TRP:HZ3	1.79	0.47
1:k:76:LEU:HD22	1:k:84:TRP:HZ3	1.79	0.47
1:l:76:LEU:HD22	1:l:84:TRP:HZ3	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:395:ASP:O	1:n:329:PRO:HB3	2.13	0.47
1:n:413:GLU:HG3	1:n:426:ARG:HB2	1.95	0.47
1:o:467:PHE:O	1:p:463:LYS:HE3	2.14	0.47
1:q:330:PRO:HG3	1:s:368:SER:O	2.15	0.47
1:r:379:SER:OG	1:r:451:ASP:OD2	2.26	0.47
1:r:413:GLU:HG3	1:r:426:ARG:HB2	1.95	0.47
1:u:368:SER:O	1:v:330:PRO:HG3	2.15	0.47
1:w:463:LYS:HE3	1:y:467:PHE:O	2.14	0.47
1:x:213:LYS:HG3	1:x:217:LYS:HE3	1.95	0.47
1:z:359:ASP:OD1	1:z:359:ASP:N	2.44	0.47
1:z:375:LEU:HD12	1:z:392:ARG:HD3	1.95	0.47
1:z:463:LYS:HE3	1:2:467:PHE:O	2.14	0.47
1:1:311:GLN:O	1:1:312:SER:OG	2.25	0.47
1:2:375:LEU:HD12	1:2:392:ARG:HD3	1.95	0.47
1:3:469:SER:HA	1:4:440:ASN:HD21	1.77	0.47
1:5:213:LYS:HG3	1:5:217:LYS:HE3	1.95	0.47
1:8:394:ILE:HD13	1:8:558:LEU:HD12	1.96	0.47
1:8:537:PHE:CE1	1:8:559:GLU:HA	2.49	0.47
1:A:368:SER:O	1:G:330:PRO:HG3	2.14	0.47
1:C:330:PRO:HG3	1:M:368:SER:O	2.14	0.47
1:D:268:THR:HG21	1:D:289:TYR:HB2	1.96	0.47
1:D:440:ASN:HD21	1:N:469:SER:HA	1.77	0.47
1:E:469:SER:HA	1:F:440:ASN:HD21	1.77	0.47
1:F:463:LYS:HE3	1:Q:467:PHE:O	2.14	0.47
1:H:268:THR:HG21	1:H:289:TYR:HB2	1.96	0.47
1:I:213:LYS:HG3	1:I:217:LYS:HE3	1.95	0.47
1:I:413:GLU:HG3	1:I:426:ARG:HB2	1.95	0.47
1:J:213:LYS:HG3	1:J:217:LYS:HE3	1.95	0.47
1:K:440:ASN:HD21	1:a:469:SER:HA	1.77	0.47
1:K:463:LYS:HE3	1:8:467:PHE:O	2.14	0.47
1:P:76:LEU:HD22	1:P:84:TRP:HZ3	1.79	0.47
1:R:368:SER:O	1:S:330:PRO:HG3	2.15	0.47
1:S:76:LEU:HD22	1:S:84:TRP:HZ3	1.79	0.47
1:S:413:GLU:HG3	1:S:426:ARG:HB2	1.95	0.47
1:T:395:ASP:O	1:d:329:PRO:HB3	2.13	0.47
1:T:467:PHE:O	1:d:463:LYS:HE3	2.14	0.47
1:U:275:ARG:HH22	1:U:414:ILE:CG1	2.25	0.47
1:W:413:GLU:HG3	1:W:426:ARG:HB2	1.95	0.47
1:W:527:ARG:NH1	1:X:544:THR:OG1	2.39	0.47
1:Z:358:TYR:CE2	1:3:260:ALA:HB2	2.48	0.47
1:Z:368:SER:O	1:4:330:PRO:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:276:ASN:OD1	1:a:276:ASN:N	2.45	0.47
1:a:407:GLN:NE2	1:8:321:GLY:H	2.11	0.47
1:d:413:GLU:HG3	1:d:426:ARG:HB2	1.95	0.47
1:h:544:THR:HG1	1:k:527:ARG:HH11	1.61	0.47
1:j:148:LEU:O	1:j:149:THR:OG1	2.28	0.47
1:j:260:ALA:HB2	1:k:358:TYR:CE2	2.48	0.47
1:k:268:THR:HG21	1:k:289:TYR:HB2	1.96	0.47
1:m:467:PHE:O	1:n:463:LYS:HE3	2.14	0.47
1:o:544:THR:OG1	1:6:527:ARG:NH1	2.39	0.47
1:q:368:SER:O	1:r:330:PRO:HG3	2.15	0.47
1:r:76:LEU:HD22	1:r:84:TRP:HZ3	1.79	0.47
1:r:275:ARG:HH22	1:r:414:ILE:CG1	2.25	0.47
1:t:329:PRO:HB3	1:v:395:ASP:O	2.13	0.47
1:w:368:SER:O	1:x:330:PRO:HG3	2.14	0.47
1:x:375:LEU:HD12	1:x:392:ARG:HD3	1.95	0.47
1:2:213:LYS:HG3	1:2:217:LYS:HE3	1.95	0.47
1:4:375:LEU:HD12	1:4:392:ARG:HD3	1.95	0.47
1:4:394:ILE:HD13	1:4:558:LEU:HD12	1.96	0.47
1:A:76:LEU:HD22	1:A:84:TRP:HZ3	1.79	0.47
1:A:148:LEU:O	1:A:149:THR:OG1	2.28	0.47
1:B:395:ASP:O	1:J:329:PRO:HB3	2.14	0.47
1:B:407:GLN:NE2	1:J:321:GLY:H	2.11	0.47
1:C:268:THR:O	1:C:288:ARG:NH1	2.43	0.47
1:D:148:LEU:O	1:D:149:THR:OG1	2.28	0.47
1:D:537:PHE:CE1	1:D:559:GLU:HA	2.49	0.47
1:F:268:THR:HG21	1:F:289:TYR:HB2	1.96	0.47
1:J:394:ILE:HD13	1:J:558:LEU:HD12	1.96	0.47
1:K:375:LEU:HD12	1:K:392:ARG:HD3	1.95	0.47
1:K:467:PHE:O	1:a:463:LYS:HE3	2.14	0.47
1:L:375:LEU:HD12	1:L:392:ARG:HD3	1.95	0.47
1:N:76:LEU:HD22	1:N:84:TRP:HZ3	1.79	0.47
1:Q:375:LEU:HD12	1:Q:392:ARG:HD3	1.95	0.47
1:R:359:ASP:N	1:R:359:ASP:OD1	2.44	0.47
1:S:537:PHE:CE1	1:S:559:GLU:HA	2.49	0.47
1:T:368:SER:O	1:d:330:PRO:HG3	2.14	0.47
1:Z:395:ASP:O	1:4:329:PRO:HB3	2.14	0.47
1:Z:467:PHE:O	1:4:463:LYS:HE3	2.14	0.47
1:a:260:ALA:HB2	1:8:358:TYR:CE2	2.48	0.47
1:d:375:LEU:HD12	1:d:392:ARG:HD3	1.95	0.47
1:g:76:LEU:HD22	1:g:84:TRP:HZ3	1.79	0.47
1:i:268:THR:O	1:i:288:ARG:NH1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:469:SER:HA	1:k:440:ASN:HD21	1.77	0.47
1:l:394:ILE:HD13	1:l:558:LEU:HD12	1.96	0.47
1:m:268:THR:HG21	1:m:289:TYR:HB2	1.96	0.47
1:m:276:ASN:OD1	1:m:276:ASN:N	2.45	0.47
1:m:359:ASP:N	1:m:359:ASP:OD1	2.44	0.47
1:m:537:PHE:CE1	1:m:559:GLU:HA	2.49	0.47
1:r:368:SER:O	1:s:330:PRO:HG3	2.15	0.47
1:r:537:PHE:CE1	1:r:559:GLU:HA	2.49	0.47
1:t:330:PRO:HG3	1:v:368:SER:O	2.14	0.47
1:u:213:LYS:HG3	1:u:217:LYS:HE3	1.95	0.47
1:u:407:GLN:NE2	1:v:321:GLY:H	2.10	0.47
1:u:413:GLU:HG3	1:u:426:ARG:HB2	1.95	0.47
1:v:311:GLN:O	1:v:312:SER:OG	2.25	0.47
1:y:268:THR:HG21	1:y:289:TYR:HB2	1.96	0.47
1:2:268:THR:HG21	1:2:289:TYR:HB2	1.96	0.47
1:5:268:THR:HG21	1:5:289:TYR:HB2	1.96	0.47
1:5:330:PRO:HG3	1:7:368:SER:O	2.14	0.47
1:5:413:GLU:HG3	1:5:426:ARG:HB2	1.95	0.47
1:6:334:ALA:O	1:6:348:GLN:NE2	2.38	0.47
1:6:413:GLU:HG3	1:6:426:ARG:HB2	1.95	0.47
1:A:213:LYS:HG3	1:A:217:LYS:HE3	1.95	0.47
1:A:544:THR:CB	1:F:527:ARG:HH11	2.28	0.47
1:B:394:ILE:HD13	1:B:558:LEU:HD12	1.96	0.47
1:B:467:PHE:O	1:J:463:LYS:HE3	2.14	0.47
1:C:321:GLY:HA3	1:C:359:ASP:HB2	1.97	0.47
1:C:413:GLU:HG3	1:C:426:ARG:HB2	1.95	0.47
1:C:467:PHE:O	1:b:463:LYS:HE3	2.14	0.47
1:C:544:THR:CB	1:L:527:ARG:HH11	2.28	0.47
1:D:321:GLY:HA3	1:D:359:ASP:HB2	1.97	0.47
1:D:330:PRO:HG3	1:P:368:SER:O	2.14	0.47
1:E:329:PRO:HB3	1:F:395:ASP:O	2.13	0.47
1:E:330:PRO:HG3	1:F:368:SER:O	2.14	0.47
1:H:330:PRO:HG3	1:Y:368:SER:O	2.14	0.47
1:H:413:GLU:HG3	1:H:426:ARG:HB2	1.95	0.47
1:J:268:THR:HG21	1:J:289:TYR:HB2	1.96	0.47
1:K:329:PRO:HB3	1:8:395:ASP:O	2.14	0.47
1:O:368:SER:O	1:m:330:PRO:HG3	2.14	0.47
1:P:148:LEU:O	1:P:149:THR:OG1	2.28	0.47
1:R:463:LYS:HE3	1:U:467:PHE:O	2.14	0.47
1:S:368:SER:O	1:U:330:PRO:HG3	2.15	0.47
1:S:544:THR:CB	1:T:527:ARG:HH11	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:268:THR:HG21	1:T:289:TYR:HB2	1.96	0.47
1:T:330:PRO:HG3	1:l:368:SER:O	2.14	0.47
1:T:537:PHE:CE1	1:T:559:GLU:HA	2.49	0.47
1:W:76:LEU:HD22	1:W:84:TRP:HZ3	1.79	0.47
1:W:375:LEU:HD12	1:W:392:ARG:HD3	1.95	0.47
1:Y:76:LEU:HD22	1:Y:84:TRP:HZ3	1.79	0.47
1:Y:213:LYS:HG3	1:Y:217:LYS:HE3	1.95	0.47
1:Z:321:GLY:H	1:3:407:GLN:NE2	2.11	0.47
1:a:394:ILE:HD13	1:a:558:LEU:HD12	1.95	0.47
1:g:321:GLY:HA3	1:g:359:ASP:HB2	1.97	0.47
1:i:76:LEU:HD22	1:i:84:TRP:HZ3	1.79	0.47
1:k:321:GLY:HA3	1:k:359:ASP:HB2	1.97	0.47
1:k:537:PHE:CE1	1:k:559:GLU:HA	2.49	0.47
1:m:368:SER:O	1:n:330:PRO:HG3	2.14	0.47
1:m:394:ILE:HD13	1:m:558:LEU:HD12	1.96	0.47
1:m:527:ARG:HH11	1:r:544:THR:CB	2.28	0.47
1:n:375:LEU:HD12	1:n:392:ARG:HD3	1.95	0.47
1:q:321:GLY:HA3	1:q:359:ASP:HB2	1.97	0.47
1:q:413:GLU:HG3	1:q:426:ARG:HB2	1.95	0.47
1:s:275:ARG:HH22	1:s:414:ILE:CG1	2.25	0.47
1:v:213:LYS:HG3	1:v:217:LYS:HE3	1.95	0.47
1:v:394:ILE:HD13	1:v:558:LEU:HD12	1.95	0.47
1:v:544:THR:CB	1:y:527:ARG:HH11	2.28	0.47
1:w:329:PRO:HB3	1:y:395:ASP:O	2.14	0.47
1:y:92:GLY:O	1:y:485:VAL:N	2.38	0.47
1:1:395:ASP:O	1:2:329:PRO:HB3	2.14	0.47
1:1:467:PHE:O	1:2:463:LYS:HE3	2.14	0.47
1:2:394:ILE:HD13	1:2:558:LEU:HD12	1.96	0.47
1:2:527:ARG:HH11	1:4:544:THR:CB	2.28	0.47
1:3:275:ARG:HH22	1:3:414:ILE:CG1	2.25	0.47
1:3:276:ASN:OD1	1:3:276:ASN:N	2.45	0.47
1:3:463:LYS:HE3	1:4:467:PHE:O	2.14	0.47
1:6:76:LEU:HD22	1:6:84:TRP:HZ3	1.79	0.47
1:6:375:LEU:HD12	1:6:392:ARG:HD3	1.95	0.47
1:A:394:ILE:HD13	1:A:558:LEU:HD12	1.95	0.47
1:B:311:GLN:O	1:B:312:SER:OG	2.25	0.47
1:B:321:GLY:HA3	1:B:359:ASP:HB2	1.97	0.47
1:B:544:THR:CB	1:I:527:ARG:HH11	2.28	0.47
1:C:76:LEU:HD22	1:C:84:TRP:HZ3	1.79	0.47
1:E:76:LEU:HD22	1:E:84:TRP:HZ3	1.79	0.47
1:F:321:GLY:HA3	1:F:359:ASP:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:76:LEU:HD22	1:J:84:TRP:HZ3	1.79	0.47
1:J:395:ASP:O	1:L:329:PRO:HB3	2.14	0.47
1:J:527:ARG:HH11	1:K:544:THR:CB	2.28	0.47
1:K:321:GLY:H	1:8:407:GLN:NE2	2.11	0.47
1:M:268:THR:HG21	1:M:289:TYR:HB2	1.96	0.47
1:O:394:ILE:HD13	1:O:558:LEU:HD12	1.96	0.47
1:R:268:THR:O	1:R:288:ARG:NH1	2.43	0.47
1:R:321:GLY:HA3	1:R:359:ASP:HB2	1.97	0.47
1:R:413:GLU:HG3	1:R:426:ARG:HB2	1.95	0.47
1:T:276:ASN:OD1	1:T:276:ASN:N	2.45	0.47
1:V:467:PHE:O	1:e:463:LYS:HE3	2.14	0.47
1:V:537:PHE:CE1	1:V:559:GLU:HA	2.49	0.47
1:X:463:LYS:HE3	1:e:467:PHE:O	2.14	0.47
1:Z:407:GLN:NE2	1:4:321:GLY:H	2.11	0.47
1:Z:413:GLU:HG3	1:Z:426:ARG:HB2	1.95	0.47
1:c:467:PHE:O	1:o:463:LYS:HE3	2.14	0.47
1:g:413:GLU:HG3	1:g:426:ARG:HB2	1.95	0.47
1:h:537:PHE:CE1	1:h:559:GLU:HA	2.49	0.47
1:j:368:SER:O	1:k:330:PRO:HG3	2.14	0.47
1:q:463:LYS:HE3	1:s:467:PHE:O	2.14	0.47
1:u:527:ARG:HH11	1:1:544:THR:CB	2.28	0.47
1:v:76:LEU:HD22	1:v:84:TRP:HZ3	1.79	0.47
1:w:330:PRO:HG3	1:y:368:SER:O	2.15	0.47
1:x:467:PHE:O	1:y:463:LYS:HE3	2.14	0.47
1:y:321:GLY:HA3	1:y:359:ASP:HB2	1.97	0.47
1:z:321:GLY:H	1:2:407:GLN:NE2	2.11	0.47
1:z:329:PRO:HB3	1:2:395:ASP:O	2.14	0.47
1:z:395:ASP:O	1:1:329:PRO:HB3	2.14	0.47
1:z:537:PHE:CE1	1:z:559:GLU:HA	2.49	0.47
1:1:321:GLY:HA3	1:1:359:ASP:HB2	1.97	0.47
1:1:394:ILE:HD13	1:1:558:LEU:HD12	1.96	0.47
1:1:407:GLN:NE2	1:2:321:GLY:H	2.11	0.47
1:1:537:PHE:CE1	1:1:559:GLU:HA	2.49	0.47
1:2:76:LEU:HD22	1:2:84:TRP:HZ3	1.79	0.47
1:3:394:ILE:HD13	1:3:558:LEU:HD12	1.95	0.47
1:5:537:PHE:CE1	1:5:559:GLU:HA	2.49	0.47
1:7:76:LEU:HD22	1:7:84:TRP:HZ3	1.79	0.47
1:A:311:GLN:O	1:A:312:SER:OG	2.25	0.47
1:A:321:GLY:H	1:I:407:GLN:NE2	2.10	0.47
1:A:467:PHE:O	1:G:463:LYS:HE3	2.14	0.47
1:B:268:THR:HG21	1:B:289:TYR:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:329:PRO:HB3	1:L:395:ASP:O	2.14	0.47
1:B:537:PHE:CE1	1:B:559:GLU:HA	2.49	0.47
1:C:368:SER:O	1:b:330:PRO:HG3	2.14	0.47
1:D:467:PHE:O	1:N:463:LYS:HE3	2.14	0.47
1:E:413:GLU:HG3	1:E:426:ARG:HB2	1.95	0.47
1:E:537:PHE:CE1	1:E:559:GLU:HA	2.49	0.47
1:F:92:GLY:O	1:F:485:VAL:N	2.38	0.47
1:F:394:ILE:HD13	1:F:558:LEU:HD12	1.95	0.47
1:G:368:SER:O	1:I:330:PRO:HG3	2.14	0.47
1:G:544:THR:OG1	1:H:527:ARG:NH1	2.38	0.47
1:H:537:PHE:CE1	1:H:559:GLU:HA	2.49	0.47
1:I:321:GLY:HA3	1:I:359:ASP:HB2	1.97	0.47
1:J:368:SER:O	1:L:330:PRO:HG3	2.15	0.47
1:J:407:GLN:NE2	1:L:321:GLY:H	2.11	0.47
1:L:537:PHE:CE1	1:L:559:GLU:HA	2.49	0.47
1:M:463:LYS:HE3	1:b:467:PHE:O	2.14	0.47
1:M:537:PHE:CE1	1:M:559:GLU:HA	2.49	0.47
1:N:268:THR:O	1:N:288:ARG:NH1	2.43	0.47
1:N:544:THR:CB	1:O:527:ARG:HH11	2.28	0.47
1:P:394:ILE:HD13	1:P:558:LEU:HD12	1.95	0.47
1:R:76:LEU:HD22	1:R:84:TRP:HZ3	1.79	0.47
1:T:394:ILE:HD13	1:T:558:LEU:HD12	1.96	0.47
1:V:321:GLY:HA3	1:V:359:ASP:HB2	1.97	0.47
1:V:368:SER:O	1:e:330:PRO:HG3	2.14	0.47
1:W:527:ARG:HH11	1:X:544:THR:CB	2.28	0.47
1:X:321:GLY:HA3	1:X:359:ASP:HB2	1.97	0.47
1:Z:321:GLY:HA3	1:Z:359:ASP:HB2	1.97	0.47
1:a:76:LEU:HD22	1:a:84:TRP:HZ3	1.79	0.47
1:a:275:ARG:HH22	1:a:414:ILE:CG1	2.25	0.47
1:b:76:LEU:HD22	1:b:84:TRP:HZ3	1.79	0.47
1:c:268:THR:HG21	1:c:289:TYR:HB2	1.96	0.47
1:c:330:PRO:HG3	1:p:368:SER:O	2.14	0.47
1:c:413:GLU:HG3	1:c:426:ARG:HB2	1.95	0.47
1:c:463:LYS:HE3	1:p:467:PHE:O	2.14	0.47
1:e:268:THR:HG21	1:e:289:TYR:HB2	1.96	0.47
1:f:76:LEU:HD22	1:f:84:TRP:HZ3	1.79	0.47
1:h:268:THR:HG21	1:h:289:TYR:HB2	1.96	0.47
1:i:407:GLN:NE2	1:j:321:GLY:H	2.11	0.47
1:i:544:THR:CB	1:l:527:ARG:HH11	2.28	0.47
1:j:311:GLN:O	1:j:312:SER:OG	2.25	0.47
1:j:394:ILE:HD13	1:j:558:LEU:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:321:GLY:HA3	1:n:359:ASP:HB2	1.97	0.47
1:o:321:GLY:HA3	1:o:359:ASP:HB2	1.97	0.47
1:o:368:SER:O	1:p:330:PRO:HG3	2.14	0.47
1:o:544:THR:CB	1:6:527:ARG:HH11	2.28	0.47
1:p:321:GLY:HA3	1:p:359:ASP:HB2	1.97	0.47
1:q:268:THR:O	1:q:288:ARG:NH1	2.43	0.47
1:r:268:THR:O	1:r:288:ARG:NH1	2.43	0.47
1:t:368:SER:O	1:u:330:PRO:HG3	2.14	0.47
1:t:544:THR:OG1	1:5:527:ARG:NH1	2.38	0.47
1:u:321:GLY:HA3	1:u:359:ASP:HB2	1.97	0.47
1:w:76:LEU:HD22	1:w:84:TRP:HZ3	1.79	0.47
1:w:537:PHE:CE1	1:w:559:GLU:HA	2.49	0.47
1:y:394:ILE:HD13	1:y:558:LEU:HD12	1.95	0.47
1:z:330:PRO:HG3	1:2:368:SER:O	2.15	0.47
1:z:407:GLN:NE2	1:1:321:GLY:H	2.11	0.47
1:1:148:LEU:O	1:1:149:THR:OG1	2.28	0.47
1:3:321:GLY:H	1:4:407:GLN:NE2	2.11	0.47
1:6:368:SER:O	1:7:330:PRO:HG3	2.15	0.47
1:7:213:LYS:HG3	1:7:217:LYS:HE3	1.95	0.47
1:8:321:GLY:HA3	1:8:359:ASP:HB2	1.97	0.47
1:8:413:GLU:HG3	1:8:426:ARG:HB2	1.95	0.47
1:A:268:THR:HG21	1:A:289:TYR:HB2	1.96	0.47
1:A:463:LYS:HE3	1:I:467:PHE:O	2.14	0.47
1:B:321:GLY:H	1:L:407:GLN:NE2	2.11	0.47
1:C:275:ARG:HH22	1:C:414:ILE:CG1	2.25	0.47
1:D:544:THR:CB	1:M:527:ARG:HH11	2.28	0.47
1:K:407:GLN:NE2	1:a:321:GLY:H	2.11	0.47
1:L:92:GLY:O	1:L:485:VAL:N	2.38	0.47
1:N:321:GLY:HA3	1:N:359:ASP:HB2	1.97	0.47
1:Q:76:LEU:HD22	1:Q:84:TRP:HZ3	1.79	0.47
1:V:330:PRO:HG3	1:X:368:SER:O	2.14	0.47
1:V:395:ASP:O	1:e:329:PRO:HB3	2.13	0.47
1:W:368:SER:O	1:Y:330:PRO:HG3	2.15	0.47
1:X:330:PRO:HG3	1:e:368:SER:O	2.15	0.47
1:Y:544:THR:CB	1:Z:527:ARG:HH11	2.28	0.47
1:a:321:GLY:HA3	1:a:359:ASP:HB2	1.97	0.47
1:c:329:PRO:HB3	1:p:395:ASP:O	2.13	0.47
1:c:394:ILE:HD13	1:c:558:LEU:HD12	1.95	0.47
1:c:537:PHE:CE1	1:c:559:GLU:HA	2.49	0.47
1:d:321:GLY:HA3	1:d:359:ASP:HB2	1.97	0.47
1:e:394:ILE:HD13	1:e:558:LEU:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:537:PHE:CE1	1:e:559:GLU:HA	2.49	0.47
1:f:467:PHE:O	1:h:463:LYS:HE3	2.14	0.47
1:g:544:THR:CB	1:z:527:ARG:HH11	2.28	0.47
1:h:527:ARG:HH11	1:k:544:THR:CB	2.28	0.47
1:h:527:ARG:HH11	1:k:544:THR:HG1	1.60	0.47
1:m:92:GLY:O	1:m:485:VAL:N	2.38	0.47
1:p:537:PHE:CE1	1:p:559:GLU:HA	2.49	0.47
1:q:76:LEU:HD22	1:q:84:TRP:HZ3	1.79	0.47
1:r:359:ASP:N	1:r:359:ASP:OD1	2.44	0.47
1:v:268:THR:HG21	1:v:289:TYR:HB2	1.96	0.47
1:w:413:GLU:HG3	1:w:426:ARG:HB2	1.95	0.47
1:x:321:GLY:HA3	1:x:359:ASP:HB2	1.97	0.47
1:1:268:THR:HG21	1:1:289:TYR:HB2	1.96	0.47
1:3:76:LEU:HD22	1:3:84:TRP:HZ3	1.79	0.47
1:B:527:ARG:HH11	1:I:544:THR:CB	2.28	0.47
1:D:368:SER:O	1:N:330:PRO:HG3	2.15	0.47
1:D:463:LYS:HE3	1:P:467:PHE:O	2.14	0.47
1:D:527:ARG:HH11	1:M:544:THR:CB	2.28	0.47
1:G:268:THR:HG21	1:G:289:TYR:HB2	1.96	0.47
1:H:321:GLY:HA3	1:H:359:ASP:HB2	1.97	0.47
1:H:467:PHE:O	1:W:463:LYS:HE3	2.14	0.47
1:N:407:GLN:NE2	1:P:321:GLY:H	2.11	0.47
1:N:537:PHE:CE1	1:N:559:GLU:HA	2.49	0.47
1:Q:394:ILE:HD13	1:Q:558:LEU:HD12	1.95	0.47
1:S:359:ASP:N	1:S:359:ASP:OD1	2.44	0.47
1:X:213:LYS:HG3	1:X:217:LYS:HE3	1.95	0.47
1:c:368:SER:O	1:o:330:PRO:HG3	2.15	0.47
1:e:413:GLU:HG3	1:e:426:ARG:HB2	1.95	0.47
1:e:444:ASP:OD2	1:e:569:LYS:NZ	2.47	0.47
1:h:544:THR:CB	1:k:527:ARG:HH11	2.28	0.47
1:i:321:GLY:HA3	1:i:359:ASP:HB2	1.97	0.47
1:i:463:LYS:HE3	1:k:467:PHE:O	2.15	0.47
1:l:213:LYS:HG3	1:l:217:LYS:HE3	1.95	0.47
1:o:213:LYS:HG3	1:o:217:LYS:HE3	1.95	0.47
1:t:268:THR:HG21	1:t:289:TYR:HB2	1.96	0.47
1:t:467:PHE:O	1:u:463:LYS:HE3	2.15	0.47
1:u:467:PHE:O	1:v:463:LYS:HE3	2.14	0.47
1:x:334:ALA:O	1:x:348:GLN:NE2	2.38	0.47
1:x:394:ILE:HD13	1:x:558:LEU:HD12	1.96	0.47
1:z:76:LEU:HD22	1:z:84:TRP:HZ3	1.79	0.47
1:1:368:SER:O	1:2:330:PRO:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:321:GLY:HA3	1:3:359:ASP:HB2	1.97	0.47
1:5:467:PHE:O	1:6:463:LYS:HE3	2.14	0.47
1:6:394:ILE:HD13	1:6:558:LEU:HD12	1.95	0.47
1:7:544:THR:CB	1:8:527:ARG:HH11	2.28	0.47
1:B:148:LEU:O	1:B:149:THR:OG1	2.28	0.47
1:B:213:LYS:HG3	1:B:217:LYS:HE3	1.95	0.47
1:B:368:SER:O	1:J:330:PRO:HG3	2.15	0.47
1:D:407:GLN:NE2	1:N:321:GLY:H	2.11	0.47
1:G:276:ASN:OD1	1:G:276:ASN:N	2.45	0.47
1:G:467:PHE:O	1:I:463:LYS:HE3	2.15	0.47
1:H:368:SER:O	1:W:330:PRO:HG3	2.14	0.47
1:L:148:LEU:O	1:L:149:THR:OG1	2.28	0.47
1:O:213:LYS:HG3	1:O:217:LYS:HE3	1.95	0.47
1:P:311:GLN:O	1:P:312:SER:OG	2.25	0.47
1:R:407:GLN:NE2	1:S:321:GLY:H	2.11	0.47
1:S:268:THR:O	1:S:288:ARG:NH1	2.43	0.47
1:S:527:ARG:HH11	1:T:544:THR:CB	2.28	0.47
1:U:92:GLY:O	1:U:485:VAL:N	2.38	0.47
1:W:394:ILE:HD13	1:W:558:LEU:HD12	1.95	0.47
1:a:544:THR:OG1	1:3:527:ARG:NH1	2.38	0.47
1:f:268:THR:HG21	1:f:289:TYR:HB2	1.96	0.47
1:f:321:GLY:H	1:g:407:GLN:NE2	2.11	0.47
1:i:321:GLY:H	1:k:407:GLN:NE2	2.11	0.47
1:i:537:PHE:CE1	1:i:559:GLU:HA	2.49	0.47
1:j:375:LEU:HD12	1:j:392:ARG:HD3	1.95	0.47
1:j:467:PHE:O	1:k:463:LYS:HE3	2.14	0.47
1:t:276:ASN:OD1	1:t:276:ASN:N	2.45	0.47
1:t:463:LYS:HE3	1:v:467:PHE:O	2.14	0.47
1:z:92:GLY:O	1:z:485:VAL:N	2.38	0.47
1:5:321:GLY:HA3	1:5:359:ASP:HB2	1.97	0.47
1:E:394:ILE:HD13	1:E:558:LEU:HD12	1.96	0.46
1:E:527:ARG:HH11	1:P:544:THR:CB	2.28	0.46
1:M:330:PRO:HG3	1:b:368:SER:O	2.15	0.46
1:N:181:VAL:HG11	1:m:491:PRO:CG	2.46	0.46
1:N:268:THR:HG21	1:N:289:TYR:HB2	1.96	0.46
1:Q:321:GLY:HA3	1:Q:359:ASP:HB2	1.97	0.46
1:Q:334:ALA:O	1:Q:348:GLN:NE2	2.38	0.46
1:R:334:ALA:O	1:R:348:GLN:NE2	2.38	0.46
1:S:527:ARG:NH1	1:T:544:THR:OG1	2.39	0.46
1:T:463:LYS:HE3	1:l:467:PHE:O	2.14	0.46
1:T:491:PRO:CG	1:i:181:VAL:HG11	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:537:PHE:CE1	1:U:559:GLU:HA	2.49	0.46
1:b:321:GLY:HA3	1:b:359:ASP:HB2	1.97	0.46
1:d:537:PHE:CE1	1:d:559:GLU:HA	2.49	0.46
1:e:76:LEU:HD22	1:e:84:TRP:HZ3	1.79	0.46
1:f:368:SER:O	1:h:330:PRO:HG3	2.15	0.46
1:i:268:THR:HG21	1:i:289:TYR:HB2	1.96	0.46
1:i:330:PRO:HG3	1:k:368:SER:O	2.15	0.46
1:j:527:ARG:HH11	1:w:544:THR:CB	2.28	0.46
1:j:544:THR:CB	1:w:527:ARG:HH11	2.28	0.46
1:n:537:PHE:CE1	1:n:559:GLU:HA	2.49	0.46
1:q:467:PHE:O	1:r:463:LYS:HE3	2.14	0.46
1:r:311:GLN:O	1:r:312:SER:OG	2.25	0.46
1:s:537:PHE:CE1	1:s:559:GLU:HA	2.49	0.46
1:u:544:THR:CB	1:1:527:ARG:HH11	2.28	0.46
1:w:394:ILE:HD13	1:w:558:LEU:HD12	1.95	0.46
1:1:213:LYS:HG3	1:1:217:LYS:HE3	1.95	0.46
1:3:148:LEU:O	1:3:149:THR:OG1	2.28	0.46
1:7:544:THR:OG1	1:8:527:ARG:NH1	2.39	0.46
1:L:76:LEU:HD22	1:L:84:TRP:HZ3	1.79	0.46
1:O:467:PHE:O	1:m:463:LYS:HE3	2.14	0.46
1:P:375:LEU:HD12	1:P:392:ARG:HD3	1.95	0.46
1:T:92:GLY:O	1:T:485:VAL:N	2.38	0.46
1:Y:321:GLY:HA3	1:Y:359:ASP:HB2	1.97	0.46
1:b:268:THR:HG21	1:b:289:TYR:HB2	1.96	0.46
1:b:544:THR:CB	1:c:527:ARG:HH11	2.28	0.46
1:m:544:THR:CB	1:r:527:ARG:HH11	2.28	0.46
1:q:407:GLN:NE2	1:r:321:GLY:H	2.11	0.46
1:x:148:LEU:O	1:x:149:THR:OG1	2.28	0.46
1:z:148:LEU:O	1:z:149:THR:OG1	2.28	0.46
1:z:368:SER:O	1:1:330:PRO:HG3	2.15	0.46
1:5:368:SER:O	1:6:330:PRO:HG3	2.14	0.46
1:B:330:PRO:HG3	1:L:368:SER:O	2.15	0.46
1:E:544:THR:CB	1:P:527:ARG:HH11	2.28	0.46
1:F:76:LEU:HD22	1:F:84:TRP:HZ3	1.79	0.46
1:I:76:LEU:HD22	1:I:84:TRP:HZ3	1.79	0.46
1:N:275:ARG:HH22	1:N:414:ILE:CG1	2.25	0.46
1:Q:148:LEU:O	1:Q:149:THR:OG1	2.28	0.46
1:S:268:THR:HG21	1:S:289:TYR:HB2	1.96	0.46
1:U:177:LEU:HD11	1:U:551:TYR:CG	2.51	0.46
1:W:467:PHE:O	1:Y:463:LYS:HE3	2.14	0.46
1:c:76:LEU:HD22	1:c:84:TRP:HZ3	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:527:ARG:HH11	1:f:544:THR:CB	2.28	0.46
1:f:321:GLY:HA3	1:f:359:ASP:HB2	1.97	0.46
1:m:527:ARG:NH1	1:r:544:THR:OG1	2.39	0.46
1:s:177:LEU:HD11	1:s:551:TYR:CG	2.51	0.46
1:B:463:LYS:HE3	1:L:467:PHE:O	2.14	0.46
1:C:177:LEU:HD11	1:C:551:TYR:CG	2.51	0.46
1:F:177:LEU:HD11	1:F:551:TYR:CG	2.51	0.46
1:N:527:ARG:HH11	1:O:544:THR:CB	2.28	0.46
1:R:467:PHE:O	1:S:463:LYS:HE3	2.14	0.46
1:S:311:GLN:O	1:S:312:SER:OG	2.25	0.46
1:S:544:THR:OG1	1:T:527:ARG:NH1	2.39	0.46
1:Z:76:LEU:HD22	1:Z:84:TRP:HZ3	1.79	0.46
1:Z:330:PRO:HG3	1:3:368:SER:O	2.15	0.46
1:a:368:SER:O	1:8:330:PRO:HG3	2.15	0.46
1:a:527:ARG:NH1	1:3:544:THR:OG1	2.38	0.46
1:b:148:LEU:O	1:b:149:THR:OG1	2.28	0.46
1:f:148:LEU:O	1:f:149:THR:OG1	2.28	0.46
1:f:463:LYS:CE	1:g:467:PHE:O	2.64	0.46
1:g:181:VAL:HG11	1:1:491:PRO:CG	2.46	0.46
1:g:491:PRO:CG	1:k:181:VAL:HG11	2.46	0.46
1:g:530:SER:HA	1:z:533:ASP:OD1	2.16	0.46
1:i:527:ARG:HH11	1:l:544:THR:CB	2.28	0.46
1:j:92:GLY:O	1:j:485:VAL:N	2.38	0.46
1:n:92:GLY:O	1:n:485:VAL:N	2.38	0.46
1:p:544:THR:CB	1:s:527:ARG:HH11	2.28	0.46
1:q:334:ALA:O	1:q:348:GLN:NE2	2.38	0.46
1:r:268:THR:HG21	1:r:289:TYR:HB2	1.96	0.46
1:r:321:GLY:HA3	1:r:359:ASP:HB2	1.97	0.46
1:r:407:GLN:NE2	1:s:321:GLY:H	2.11	0.46
1:s:92:GLY:O	1:s:485:VAL:N	2.38	0.46
1:w:467:PHE:O	1:x:463:LYS:HE3	2.14	0.46
1:x:368:SER:O	1:y:330:PRO:HG3	2.14	0.46
1:y:76:LEU:HD22	1:y:84:TRP:HZ3	1.79	0.46
1:4:321:GLY:HA3	1:4:359:ASP:HB2	1.97	0.46
1:6:467:PHE:O	1:7:463:LYS:HE3	2.14	0.46
1:7:321:GLY:HA3	1:7:359:ASP:HB2	1.97	0.46
1:8:76:LEU:HD22	1:8:84:TRP:HZ3	1.79	0.46
1:A:491:PRO:CG	1:B:181:VAL:HG11	2.46	0.46
1:C:491:PRO:CG	1:D:181:VAL:HG11	2.46	0.46
1:F:330:PRO:HG3	1:Q:368:SER:O	2.15	0.46
1:H:181:VAL:HG11	1:I:491:PRO:CG	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:268:THR:O	1:H:288:ARG:NH1	2.43	0.46
1:H:463:LYS:HE3	1:Y:467:PHE:O	2.14	0.46
1:I:177:LEU:HD11	1:I:551:TYR:CG	2.51	0.46
1:K:92:GLY:O	1:K:485:VAL:N	2.38	0.46
1:K:321:GLY:HA3	1:K:359:ASP:HB2	1.97	0.46
1:P:177:LEU:HD11	1:P:551:TYR:CG	2.51	0.46
1:P:268:THR:HG21	1:P:289:TYR:HB2	1.96	0.46
1:S:407:GLN:NE2	1:U:321:GLY:H	2.11	0.46
1:T:76:LEU:HD22	1:T:84:TRP:HZ3	1.79	0.46
1:U:527:ARG:HH11	1:V:544:THR:CB	2.28	0.46
1:Y:544:THR:OG1	1:Z:527:ARG:NH1	2.39	0.46
1:a:148:LEU:O	1:a:149:THR:OG1	2.28	0.46
1:a:544:THR:CB	1:3:527:ARG:HH11	2.28	0.46
1:d:92:GLY:O	1:d:485:VAL:N	2.38	0.46
1:f:177:LEU:HD11	1:f:551:TYR:CG	2.51	0.46
1:g:92:GLY:O	1:g:485:VAL:N	2.38	0.46
1:g:177:LEU:HD11	1:g:551:TYR:CG	2.51	0.46
1:j:268:THR:HG21	1:j:289:TYR:HB2	1.96	0.46
1:m:544:THR:OG1	1:r:527:ARG:NH1	2.39	0.46
1:o:407:GLN:NE2	1:p:321:GLY:H	2.11	0.46
1:u:76:LEU:HD22	1:u:84:TRP:HZ3	1.79	0.46
1:u:177:LEU:HD11	1:u:551:TYR:CG	2.51	0.46
1:u:491:PRO:CG	1:5:181:VAL:HG11	2.46	0.46
1:v:491:PRO:CG	1:1:181:VAL:HG11	2.46	0.46
1:y:177:LEU:HD11	1:y:551:TYR:CG	2.51	0.46
1:4:76:LEU:HD22	1:4:84:TRP:HZ3	1.79	0.46
1:4:92:GLY:O	1:4:485:VAL:N	2.38	0.46
1:B:491:PRO:CG	1:C:181:VAL:HG11	2.46	0.46
1:C:407:GLN:NE2	1:b:321:GLY:H	2.11	0.46
1:H:491:PRO:CG	1:Z:181:VAL:HG11	2.46	0.46
1:J:177:LEU:HD11	1:J:551:TYR:CG	2.51	0.46
1:M:418:ASN:O	1:M:419:THR:OG1	2.33	0.46
1:O:407:GLN:NE2	1:m:321:GLY:H	2.11	0.46
1:Q:181:VAL:HG11	1:S:491:PRO:CG	2.46	0.46
1:Q:544:THR:CB	1:R:527:ARG:HH11	2.28	0.46
1:S:321:GLY:HA3	1:S:359:ASP:HB2	1.97	0.46
1:U:181:VAL:HG11	1:e:491:PRO:CG	2.46	0.46
1:V:268:THR:HG21	1:V:289:TYR:HB2	1.96	0.46
1:V:321:GLY:H	1:X:407:GLN:NE2	2.11	0.46
1:b:177:LEU:HD11	1:b:551:TYR:CG	2.51	0.46
1:c:491:PRO:CG	1:s:181:VAL:HG11	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:321:GLY:HA3	1:e:359:ASP:HB2	1.97	0.46
1:e:527:ARG:NH1	1:f:544:THR:OG1	2.39	0.46
1:j:177:LEU:HD11	1:j:551:TYR:CG	2.51	0.46
1:l:148:LEU:O	1:l:149:THR:OG1	2.28	0.46
1:m:181:VAL:HG11	1:s:491:PRO:CG	2.46	0.46
1:q:527:ARG:HH11	1:x:544:THR:CB	2.28	0.46
1:r:491:PRO:CG	1:x:181:VAL:HG11	2.46	0.46
1:w:321:GLY:H	1:y:407:GLN:NE2	2.11	0.46
1:w:321:GLY:HA3	1:w:359:ASP:HB2	1.97	0.46
1:z:467:PHE:O	1:1:463:LYS:HE3	2.14	0.46
1:2:177:LEU:HD11	1:2:551:TYR:CG	2.51	0.46
1:4:268:THR:HG21	1:4:289:TYR:HB2	1.96	0.46
1:5:463:LYS:HE3	1:7:467:PHE:O	2.14	0.46
1:A:321:GLY:HA3	1:A:359:ASP:HB2	1.97	0.46
1:E:177:LEU:HD11	1:E:551:TYR:CG	2.51	0.46
1:E:321:GLY:H	1:F:407:GLN:NE2	2.11	0.46
1:O:148:LEU:O	1:O:149:THR:OG1	2.28	0.46
1:T:177:LEU:HD11	1:T:551:TYR:CG	2.51	0.46
1:T:321:GLY:H	1:l:407:GLN:NE2	2.11	0.46
1:W:321:GLY:HA3	1:W:359:ASP:HB2	1.97	0.46
1:X:491:PRO:CG	1:f:181:VAL:HG11	2.46	0.46
1:Y:177:LEU:HD11	1:Y:551:TYR:CG	2.51	0.46
1:Y:527:ARG:HH11	1:Z:544:THR:CB	2.28	0.46
1:Z:311:GLN:O	1:Z:312:SER:OG	2.25	0.46
1:Z:491:PRO:CG	1:a:181:VAL:HG11	2.46	0.46
1:a:527:ARG:HH11	1:3:544:THR:CB	2.28	0.46
1:b:527:ARG:HH11	1:c:544:THR:CB	2.28	0.46
1:c:321:GLY:HA3	1:c:359:ASP:HB2	1.97	0.46
1:h:418:ASN:O	1:h:419:THR:OG1	2.33	0.46
1:i:275:ARG:HH22	1:i:414:ILE:CG1	2.25	0.46
1:m:76:LEU:HD22	1:m:84:TRP:HZ3	1.79	0.46
1:m:177:LEU:HD11	1:m:551:TYR:CG	2.51	0.46
1:p:268:THR:HG21	1:p:289:TYR:HB2	1.96	0.46
1:z:491:PRO:CG	1:4:181:VAL:HG11	2.46	0.46
1:3:181:VAL:HG11	1:8:491:PRO:CG	2.46	0.46
1:5:491:PRO:CG	1:8:181:VAL:HG11	2.46	0.46
1:6:321:GLY:HA3	1:6:359:ASP:HB2	1.97	0.46
1:E:321:GLY:HA3	1:E:359:ASP:HB2	1.97	0.46
1:E:467:PHE:O	1:Q:463:LYS:HE3	2.15	0.46
1:F:321:GLY:H	1:Q:407:GLN:NE2	2.10	0.46
1:J:275:ARG:HH22	1:J:414:ILE:CG1	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:76:LEU:HD22	1:K:84:TRP:HZ3	1.79	0.46
1:K:177:LEU:HD11	1:K:551:TYR:CG	2.51	0.46
1:K:181:VAL:HG11	1:L:491:PRO:CG	2.46	0.46
1:K:268:THR:HG21	1:K:289:TYR:HB2	1.96	0.46
1:M:321:GLY:HA3	1:M:359:ASP:HB2	1.97	0.46
1:N:148:LEU:O	1:N:149:THR:OG1	2.28	0.46
1:P:92:GLY:O	1:P:485:VAL:N	2.38	0.46
1:T:181:VAL:HG11	1:U:491:PRO:CG	2.46	0.46
1:b:181:VAL:HG11	1:o:491:PRO:CG	2.46	0.46
1:c:268:THR:O	1:c:288:ARG:NH1	2.43	0.46
1:g:401:TRP:CE3	1:g:404:VAL:HG23	2.51	0.46
1:v:321:GLY:HA3	1:v:359:ASP:HB2	1.97	0.46
1:w:177:LEU:HD11	1:w:551:TYR:CG	2.51	0.46
1:z:321:GLY:HA3	1:z:359:ASP:HB2	1.97	0.46
1:4:177:LEU:HD11	1:4:551:TYR:CG	2.51	0.46
1:5:268:THR:O	1:5:288:ARG:NH1	2.43	0.46
1:7:177:LEU:HD11	1:7:551:TYR:CG	2.51	0.46
1:7:527:ARG:HH11	1:8:544:THR:CB	2.28	0.46
1:A:527:ARG:HH11	1:F:544:THR:CB	2.28	0.46
1:C:401:TRP:CE3	1:C:404:VAL:HG23	2.51	0.46
1:G:321:GLY:HA3	1:G:359:ASP:HB2	1.97	0.46
1:P:401:TRP:CE3	1:P:404:VAL:HG23	2.51	0.46
1:a:311:GLN:O	1:a:312:SER:OG	2.25	0.46
1:c:311:GLN:O	1:c:312:SER:OG	2.25	0.46
1:e:544:THR:CB	1:f:527:ARG:HH11	2.28	0.46
1:h:321:GLY:HA3	1:h:359:ASP:HB2	1.97	0.46
1:j:401:TRP:CE3	1:j:404:VAL:HG23	2.51	0.46
1:k:401:TRP:CE3	1:k:404:VAL:HG23	2.51	0.46
1:k:491:PRO:CG	1:w:181:VAL:HG11	2.46	0.46
1:l:177:LEU:HD11	1:l:551:TYR:CG	2.51	0.46
1:l:401:TRP:CE3	1:l:404:VAL:HG23	2.51	0.46
1:m:444:ASP:OD2	1:m:569:LYS:NZ	2.47	0.46
1:s:401:TRP:CE3	1:s:404:VAL:HG23	2.51	0.46
1:t:321:GLY:HA3	1:t:359:ASP:HB2	1.97	0.46
1:x:101:SER:HB2	1:x:174:MET:HB3	1.98	0.46
1:3:268:THR:O	1:3:288:ARG:NH1	2.43	0.46
1:6:177:LEU:HD11	1:6:551:TYR:CG	2.51	0.46
1:A:101:SER:HB2	1:A:174:MET:HB3	1.98	0.46
1:C:92:GLY:O	1:C:485:VAL:N	2.38	0.46
1:D:491:PRO:CG	1:E:181:VAL:HG11	2.46	0.46
1:F:401:TRP:CE3	1:F:404:VAL:HG23	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:491:PRO:CG	1:R:181:VAL:HG11	2.46	0.46
1:J:181:VAL:HG11	1:a:491:PRO:CG	2.46	0.46
1:K:491:PRO:CG	1:7:181:VAL:HG11	2.46	0.46
1:L:101:SER:HB2	1:L:174:MET:HB3	1.98	0.46
1:M:491:PRO:CG	1:c:181:VAL:HG11	2.46	0.46
1:O:177:LEU:HD11	1:O:551:TYR:CG	2.51	0.46
1:O:181:VAL:HG11	1:P:491:PRO:CG	2.46	0.46
1:O:334:ALA:O	1:O:348:GLN:NE2	2.38	0.46
1:O:401:TRP:CE3	1:O:404:VAL:HG23	2.51	0.46
1:U:401:TRP:CE3	1:U:404:VAL:HG23	2.51	0.46
1:W:177:LEU:HD11	1:W:551:TYR:CG	2.51	0.46
1:W:401:TRP:CE3	1:W:404:VAL:HG23	2.51	0.46
1:Y:92:GLY:O	1:Y:485:VAL:N	2.38	0.46
1:b:544:THR:OG1	1:c:527:ARG:NH1	2.38	0.46
1:e:181:VAL:HG11	1:h:491:PRO:CG	2.46	0.46
1:j:491:PRO:CG	1:l:181:VAL:HG11	2.46	0.46
1:n:177:LEU:HD11	1:n:551:TYR:CG	2.51	0.46
1:q:181:VAL:HG11	1:y:491:PRO:CG	2.46	0.46
1:r:177:LEU:HD11	1:r:551:TYR:CG	2.51	0.46
1:v:101:SER:HB2	1:v:174:MET:HB3	1.98	0.46
1:v:527:ARG:HH11	1:y:544:THR:CB	2.28	0.46
1:y:401:TRP:CE3	1:y:404:VAL:HG23	2.51	0.46
1:3:311:GLN:O	1:3:312:SER:OG	2.25	0.46
1:6:407:GLN:NE2	1:7:321:GLY:H	2.11	0.46
1:8:311:GLN:O	1:8:312:SER:OG	2.25	0.46
1:D:401:TRP:CE3	1:D:404:VAL:HG23	2.51	0.45
1:G:177:LEU:HD11	1:G:551:TYR:CG	2.51	0.45
1:G:181:VAL:HG11	1:W:491:PRO:CG	2.46	0.45
1:G:401:TRP:CE3	1:G:404:VAL:HG23	2.51	0.45
1:I:181:VAL:HG11	1:J:491:PRO:CG	2.46	0.45
1:K:311:GLN:O	1:K:312:SER:OG	2.25	0.45
1:L:321:GLY:HA3	1:L:359:ASP:HB2	1.97	0.45
1:P:101:SER:HB2	1:P:174:MET:HB3	1.98	0.45
1:Q:101:SER:HB2	1:Q:174:MET:HB3	1.99	0.45
1:S:177:LEU:HD11	1:S:551:TYR:CG	2.51	0.45
1:S:181:VAL:HG11	1:d:491:PRO:CG	2.46	0.45
1:S:401:TRP:CE3	1:S:404:VAL:HG23	2.51	0.45
1:U:544:THR:CB	1:V:527:ARG:HH11	2.28	0.45
1:V:407:GLN:NE2	1:e:321:GLY:H	2.11	0.45
1:W:407:GLN:NE2	1:Y:321:GLY:H	2.11	0.45
1:Y:101:SER:HB2	1:Y:174:MET:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:181:VAL:HG11	1:4:491:PRO:CG	2.46	0.45
1:Y:401:TRP:CE3	1:Y:404:VAL:HG23	2.51	0.45
1:b:334:ALA:O	1:b:348:GLN:NE2	2.38	0.45
1:c:177:LEU:HD11	1:c:551:TYR:CG	2.51	0.45
1:d:177:LEU:HD11	1:d:551:TYR:CG	2.51	0.45
1:g:523:THR:HG21	1:z:106:GLN:HE22	1.81	0.45
1:i:148:LEU:O	1:i:149:THR:OG1	2.28	0.45
1:n:491:PRO:CG	1:r:181:VAL:HG11	2.46	0.45
1:p:181:VAL:HG11	1:q:491:PRO:CG	2.46	0.45
1:r:401:TRP:CE3	1:r:404:VAL:HG23	2.51	0.45
1:u:181:VAL:HG11	1:2:491:PRO:CG	2.46	0.45
1:v:177:LEU:HD11	1:v:551:TYR:CG	2.51	0.45
1:x:407:GLN:NE2	1:y:321:GLY:H	2.11	0.45
1:y:359:ASP:OD1	1:y:359:ASP:N	2.44	0.45
1:2:181:VAL:HG11	1:3:491:PRO:CG	2.46	0.45
1:2:275:ARG:HH22	1:2:414:ILE:CG1	2.25	0.45
1:3:547:ALA:HA	1:8:75:LYS:HB3	1.98	0.45
1:6:401:TRP:CE3	1:6:404:VAL:HG23	2.51	0.45
1:7:101:SER:HB2	1:7:174:MET:HB3	1.98	0.45
1:7:401:TRP:CE3	1:7:404:VAL:HG23	2.51	0.45
1:A:177:LEU:HD11	1:A:551:TYR:CG	2.51	0.45
1:A:547:ALA:HA	1:E:75:LYS:HB3	1.98	0.45
1:R:177:LEU:HD11	1:R:551:TYR:CG	2.51	0.45
1:R:491:PRO:CG	1:V:181:VAL:HG11	2.46	0.45
1:U:321:GLY:HA3	1:U:359:ASP:HB2	1.97	0.45
1:Z:75:LYS:HB3	1:a:547:ALA:HA	1.98	0.45
1:a:268:THR:O	1:a:288:ARG:NH1	2.43	0.45
1:g:527:ARG:HH11	1:z:544:THR:CB	2.28	0.45
1:h:401:TRP:CE3	1:h:404:VAL:HG23	2.51	0.45
1:j:101:SER:HB2	1:j:174:MET:HB3	1.98	0.45
1:n:275:ARG:HH22	1:n:414:ILE:CG1	2.25	0.45
1:o:181:VAL:HG11	1:7:491:PRO:CG	2.46	0.45
1:p:527:ARG:HH11	1:s:544:THR:CB	2.28	0.45
1:p:544:THR:HG1	1:s:527:ARG:HH11	1.58	0.45
1:q:101:SER:HB2	1:q:174:MET:HB3	1.98	0.45
1:q:177:LEU:HD11	1:q:551:TYR:CG	2.51	0.45
1:s:321:GLY:HA3	1:s:359:ASP:HB2	1.97	0.45
1:t:177:LEU:HD11	1:t:551:TYR:CG	2.51	0.45
1:t:181:VAL:HG11	1:6:491:PRO:CG	2.46	0.45
1:t:401:TRP:CE3	1:t:404:VAL:HG23	2.51	0.45
1:v:75:LYS:HB3	1:1:547:ALA:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:547:ALA:HA	1:w:75:LYS:HB3	1.98	0.45
1:z:101:SER:HB2	1:z:174:MET:HB3	1.99	0.45
1:2:321:GLY:HA3	1:2:359:ASP:HB2	1.97	0.45
1:2:544:THR:CB	1:4:527:ARG:HH11	2.28	0.45
1:6:121:LYS:HA	1:6:121:LYS:HD2	1.79	0.45
1:A:181:VAL:HG11	1:E:491:PRO:CG	2.46	0.45
1:B:177:LEU:HD11	1:B:551:TYR:CG	2.51	0.45
1:B:273:ALA:HB1	1:B:284:PHE:HB3	1.99	0.45
1:F:181:VAL:HG11	1:G:491:PRO:CG	2.46	0.45
1:F:359:ASP:OD1	1:F:359:ASP:N	2.44	0.45
1:H:177:LEU:HD11	1:H:551:TYR:CG	2.51	0.45
1:J:321:GLY:HA3	1:J:359:ASP:HB2	1.97	0.45
1:K:273:ALA:HB1	1:K:284:PHE:HB3	1.99	0.45
1:M:401:TRP:CE3	1:M:404:VAL:HG23	2.51	0.45
1:O:321:GLY:HA3	1:O:359:ASP:HB2	1.97	0.45
1:P:181:VAL:HG11	1:Q:491:PRO:CG	2.46	0.45
1:T:401:TRP:CE3	1:T:404:VAL:HG23	2.51	0.45
1:V:359:ASP:OD1	1:V:359:ASP:N	2.44	0.45
1:W:273:ALA:HB1	1:W:284:PHE:HB3	1.99	0.45
1:X:181:VAL:HG11	1:Y:491:PRO:CG	2.46	0.45
1:c:321:GLY:H	1:p:407:GLN:NE2	2.11	0.45
1:c:407:GLN:NE2	1:o:321:GLY:H	2.11	0.45
1:d:273:ALA:HB1	1:d:284:PHE:HB3	1.99	0.45
1:d:401:TRP:CE3	1:d:404:VAL:HG23	2.51	0.45
1:e:177:LEU:HD11	1:e:551:TYR:CG	2.51	0.45
1:e:311:GLN:O	1:e:312:SER:OG	2.25	0.45
1:l:121:LYS:HA	1:l:121:LYS:HD2	1.79	0.45
1:l:321:GLY:HA3	1:l:359:ASP:HB2	1.97	0.45
1:m:401:TRP:CE3	1:m:404:VAL:HG23	2.51	0.45
1:n:76:LEU:HD22	1:n:84:TRP:HZ3	1.79	0.45
1:n:273:ALA:HB1	1:n:284:PHE:HB3	1.99	0.45
1:n:401:TRP:CE3	1:n:404:VAL:HG23	2.51	0.45
1:p:491:PRO:CG	1:6:181:VAL:HG11	2.46	0.45
1:t:491:PRO:CG	1:y:181:VAL:HG11	2.46	0.45
1:1:177:LEU:HD11	1:1:551:TYR:CG	2.51	0.45
1:1:273:ALA:HB1	1:1:284:PHE:HB3	1.99	0.45
1:1:379:SER:OG	1:1:451:ASP:OD2	2.26	0.45
1:4:273:ALA:HB1	1:4:284:PHE:HB3	1.99	0.45
1:5:177:LEU:HD11	1:5:551:TYR:CG	2.51	0.45
1:6:273:ALA:HB1	1:6:284:PHE:HB3	1.99	0.45
1:C:527:ARG:HH11	1:L:544:THR:CB	2.28	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:527:ARG:HH11	1:L:544:THR:HG1	1.62	0.45
1:J:544:THR:CB	1:K:527:ARG:HH11	2.28	0.45
1:K:75:LYS:HB3	1:7:547:ALA:HA	1.99	0.45
1:K:334:ALA:O	1:K:348:GLN:NE2	2.38	0.45
1:L:177:LEU:HD11	1:L:551:TYR:CG	2.51	0.45
1:M:177:LEU:HD11	1:M:551:TYR:CG	2.51	0.45
1:N:401:TRP:CE3	1:N:404:VAL:HG23	2.51	0.45
1:P:334:ALA:O	1:P:348:GLN:NE2	2.38	0.45
1:Q:401:TRP:CE3	1:Q:404:VAL:HG23	2.51	0.45
1:R:101:SER:HB2	1:R:174:MET:HB3	1.98	0.45
1:U:273:ALA:HB1	1:U:284:PHE:HB3	1.99	0.45
1:U:547:ALA:HA	1:e:75:LYS:HB3	1.99	0.45
1:V:491:PRO:CG	1:W:181:VAL:HG11	2.46	0.45
1:W:101:SER:HB2	1:W:174:MET:HB3	1.98	0.45
1:W:121:LYS:HA	1:W:121:LYS:HD2	1.79	0.45
1:Y:334:ALA:O	1:Y:348:GLN:NE2	2.38	0.45
1:Y:547:ALA:HA	1:4:75:LYS:HB3	1.99	0.45
1:Z:177:LEU:HD11	1:Z:551:TYR:CG	2.51	0.45
1:c:75:LYS:HB3	1:s:547:ALA:HA	1.99	0.45
1:d:76:LEU:HD22	1:d:84:TRP:HZ3	1.79	0.45
1:d:407:GLN:NE2	1:l:321:GLY:H	2.11	0.45
1:f:311:GLN:O	1:f:312:SER:OG	2.25	0.45
1:f:324:THR:HG23	1:g:405:PHE:HB2	1.98	0.45
1:h:177:LEU:HD11	1:h:551:TYR:CG	2.51	0.45
1:i:401:TRP:CE3	1:i:404:VAL:HG23	2.51	0.45
1:j:181:VAL:HG11	1:x:491:PRO:CG	2.46	0.45
1:l:334:ALA:O	1:l:348:GLN:NE2	2.38	0.45
1:r:148:LEU:O	1:r:149:THR:OG1	2.28	0.45
1:s:273:ALA:HB1	1:s:284:PHE:HB3	1.99	0.45
1:t:311:GLN:O	1:t:312:SER:OG	2.25	0.45
1:v:181:VAL:HG11	1:w:491:PRO:CG	2.46	0.45
1:w:101:SER:HB2	1:w:174:MET:HB3	1.98	0.45
1:x:273:ALA:HB1	1:x:284:PHE:HB3	1.99	0.45
1:x:401:TRP:CE3	1:x:404:VAL:HG23	2.51	0.45
1:z:379:SER:OG	1:z:451:ASP:OD2	2.26	0.45
1:3:177:LEU:HD11	1:3:551:TYR:CG	2.51	0.45
1:4:401:TRP:CE3	1:4:404:VAL:HG23	2.51	0.45
1:7:311:GLN:O	1:7:312:SER:OG	2.25	0.45
1:C:321:GLY:H	1:M:407:GLN:NE2	2.11	0.45
1:D:273:ALA:HB1	1:D:284:PHE:HB3	1.99	0.45
1:E:73:TYR:CE1	1:E:89:THR:HG23	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:73:TYR:CE1	1:F:89:THR:HG23	2.52	0.45
1:G:73:TYR:CE1	1:G:89:THR:HG23	2.52	0.45
1:I:92:GLY:O	1:I:485:VAL:N	2.38	0.45
1:K:401:TRP:CE3	1:K:404:VAL:HG23	2.51	0.45
1:K:547:ALA:HA	1:L:75:LYS:HB3	1.98	0.45
1:L:181:VAL:HG11	1:b:491:PRO:CG	2.46	0.45
1:M:181:VAL:HG11	1:N:491:PRO:CG	2.46	0.45
1:O:273:ALA:HB1	1:O:284:PHE:HB3	1.99	0.45
1:Q:273:ALA:HB1	1:Q:284:PHE:HB3	1.99	0.45
1:T:148:LEU:O	1:T:149:THR:OG1	2.28	0.45
1:Y:418:ASN:O	1:Y:419:THR:OG1	2.33	0.45
1:Z:101:SER:HB2	1:Z:174:MET:HB3	1.99	0.45
1:a:101:SER:HB2	1:a:174:MET:HB3	1.98	0.45
1:a:177:LEU:HD11	1:a:551:TYR:CG	2.51	0.45
1:d:275:ARG:HH22	1:d:414:ILE:CG1	2.25	0.45
1:d:418:ASN:O	1:d:419:THR:OG1	2.33	0.45
1:g:533:ASP:OD1	1:z:530:SER:HA	2.17	0.45
1:j:321:GLY:HA3	1:j:359:ASP:HB2	1.97	0.45
1:j:547:ALA:HA	1:x:75:LYS:HB3	1.99	0.45
1:l:273:ALA:HB1	1:l:284:PHE:HB3	1.99	0.45
1:n:418:ASN:O	1:n:419:THR:OG1	2.33	0.45
1:u:405:PHE:HB2	1:v:324:THR:HG23	1.99	0.45
1:v:531:LYS:HD2	1:v:531:LYS:HA	1.76	0.45
1:z:177:LEU:HD11	1:z:551:TYR:CG	2.51	0.45
1:4:311:GLN:O	1:4:312:SER:OG	2.25	0.45
1:5:73:TYR:CE1	1:5:89:THR:HG23	2.52	0.45
1:5:401:TRP:CE3	1:5:404:VAL:HG23	2.51	0.45
1:5:444:ASP:OD2	1:5:569:LYS:NZ	2.47	0.45
1:6:101:SER:HB2	1:6:174:MET:HB3	1.98	0.45
1:7:92:GLY:O	1:7:485:VAL:N	2.38	0.45
1:8:177:LEU:HD11	1:8:551:TYR:CG	2.51	0.45
1:8:401:TRP:CE3	1:8:404:VAL:HG23	2.51	0.45
1:A:73:TYR:CE1	1:A:89:THR:HG23	2.52	0.45
1:A:324:THR:HG23	1:I:405:PHE:HB2	1.99	0.45
1:B:379:SER:OG	1:B:451:ASP:OD2	2.26	0.45
1:D:73:TYR:CE1	1:D:89:THR:HG23	2.52	0.45
1:E:101:SER:HB2	1:E:174:MET:HB3	1.99	0.45
1:G:101:SER:HB2	1:G:174:MET:HB3	1.99	0.45
1:G:527:ARG:HH11	1:H:544:THR:CB	2.28	0.45
1:H:73:TYR:CE1	1:H:89:THR:HG23	2.52	0.45
1:H:401:TRP:CE3	1:H:404:VAL:HG23	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:73:TYR:CE1	1:I:89:THR:HG23	2.52	0.45
1:L:401:TRP:CE3	1:L:404:VAL:HG23	2.51	0.45
1:O:321:GLY:H	1:n:407:GLN:NE2	2.11	0.45
1:P:321:GLY:HA3	1:P:359:ASP:HB2	1.97	0.45
1:P:547:ALA:HA	1:Q:75:LYS:HB3	1.99	0.45
1:R:273:ALA:HB1	1:R:284:PHE:HB3	1.99	0.45
1:T:321:GLY:HA3	1:T:359:ASP:HB2	1.97	0.45
1:U:73:TYR:CE1	1:U:89:THR:HG23	2.52	0.45
1:U:268:THR:O	1:U:288:ARG:NH1	2.43	0.45
1:X:321:GLY:H	1:e:407:GLN:NE2	2.11	0.45
1:Z:401:TRP:CE3	1:Z:404:VAL:HG23	2.51	0.45
1:b:311:GLN:O	1:b:312:SER:OG	2.25	0.45
1:b:401:TRP:CE3	1:b:404:VAL:HG23	2.51	0.45
1:d:544:THR:CB	1:n:527:ARG:HH11	2.28	0.45
1:e:276:ASN:OD1	1:e:276:ASN:N	2.45	0.45
1:f:491:PRO:CG	1:z:181:VAL:HG11	2.46	0.45
1:h:181:VAL:HG11	1:i:491:PRO:CG	2.46	0.45
1:i:177:LEU:HD11	1:i:551:TYR:CG	2.51	0.45
1:j:334:ALA:O	1:j:348:GLN:NE2	2.38	0.45
1:k:73:TYR:CE1	1:k:89:THR:HG23	2.52	0.45
1:k:273:ALA:HB1	1:k:284:PHE:HB3	1.99	0.45
1:o:401:TRP:CE3	1:o:404:VAL:HG23	2.51	0.45
1:p:359:ASP:N	1:p:359:ASP:OD1	2.44	0.45
1:q:73:TYR:CE1	1:q:89:THR:HG23	2.52	0.45
1:q:273:ALA:HB1	1:q:284:PHE:HB3	1.99	0.45
1:r:101:SER:HB2	1:r:174:MET:HB3	1.98	0.45
1:t:73:TYR:CE1	1:t:89:THR:HG23	2.52	0.45
1:t:101:SER:HB2	1:t:174:MET:HB3	1.99	0.45
1:u:73:TYR:CE1	1:u:89:THR:HG23	2.52	0.45
1:v:73:TYR:CE1	1:v:89:THR:HG23	2.52	0.45
1:w:73:TYR:CE1	1:w:89:THR:HG23	2.52	0.45
1:w:334:ALA:O	1:w:348:GLN:NE2	2.38	0.45
1:y:73:TYR:CE1	1:y:89:THR:HG23	2.52	0.45
1:y:273:ALA:HB1	1:y:284:PHE:HB3	1.99	0.45
1:3:101:SER:HB2	1:3:174:MET:HB3	1.98	0.45
1:4:73:TYR:CE1	1:4:89:THR:HG23	2.52	0.45
1:8:101:SER:HB2	1:8:174:MET:HB3	1.99	0.45
1:A:75:LYS:HB3	1:B:547:ALA:HA	1.99	0.45
1:D:177:LEU:HD11	1:D:551:TYR:CG	2.51	0.45
1:E:275:ARG:HH22	1:E:414:ILE:CG1	2.25	0.45
1:F:101:SER:HB2	1:F:174:MET:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:273:ALA:HB1	1:F:284:PHE:HB3	1.99	0.45
1:G:311:GLN:O	1:G:312:SER:OG	2.25	0.45
1:I:401:TRP:CE3	1:I:404:VAL:HG23	2.51	0.45
1:K:73:TYR:CE1	1:K:89:THR:HG23	2.52	0.45
1:K:160:HIS:HD2	1:K:478:HIS:HD2	1.65	0.45
1:N:177:LEU:HD11	1:N:551:TYR:CG	2.51	0.45
1:O:491:PRO:CG	1:d:181:VAL:HG11	2.46	0.45
1:P:160:HIS:HD2	1:P:478:HIS:HD2	1.65	0.45
1:Q:527:ARG:HH11	1:R:544:THR:CB	2.28	0.45
1:R:73:TYR:CE1	1:R:89:THR:HG23	2.52	0.45
1:S:73:TYR:CE1	1:S:89:THR:HG23	2.52	0.45
1:S:101:SER:HB2	1:S:174:MET:HB3	1.98	0.45
1:U:101:SER:HB2	1:U:174:MET:HB3	1.98	0.45
1:X:177:LEU:HD11	1:X:551:TYR:CG	2.51	0.45
1:X:401:TRP:CE3	1:X:404:VAL:HG23	2.51	0.45
1:Y:311:GLN:O	1:Y:312:SER:OG	2.25	0.45
1:Y:527:ARG:NH1	1:Z:544:THR:OG1	2.39	0.45
1:e:401:TRP:CE3	1:e:404:VAL:HG23	2.51	0.45
1:f:101:SER:HB2	1:f:174:MET:HB3	1.98	0.45
1:f:401:TRP:CE3	1:f:404:VAL:HG23	2.51	0.45
1:j:273:ALA:HB1	1:j:284:PHE:HB3	1.99	0.45
1:l:491:PRO:CG	1:n:181:VAL:HG11	2.46	0.45
1:o:177:LEU:HD11	1:o:551:TYR:CG	2.51	0.45
1:q:544:THR:CB	1:x:527:ARG:HH11	2.28	0.45
1:s:73:TYR:CE1	1:s:89:THR:HG23	2.52	0.45
1:s:268:THR:O	1:s:288:ARG:NH1	2.43	0.45
1:u:75:LYS:HB3	1:5:547:ALA:HA	1.99	0.45
1:u:401:TRP:CE3	1:u:404:VAL:HG23	2.51	0.45
1:v:273:ALA:HB1	1:v:284:PHE:HB3	1.99	0.45
1:y:101:SER:HB2	1:y:174:MET:HB3	1.98	0.45
1:z:75:LYS:HB3	1:4:547:ALA:HA	1.98	0.45
1:z:401:TRP:CE3	1:z:404:VAL:HG23	2.51	0.45
1:B:401:TRP:CE3	1:B:404:VAL:HG23	2.51	0.45
1:E:334:ALA:O	1:E:348:GLN:NE2	2.38	0.45
1:H:547:ALA:HA	1:I:75:LYS:HB3	1.99	0.45
1:I:547:ALA:HA	1:J:75:LYS:HB3	1.99	0.45
1:J:92:GLY:O	1:J:485:VAL:N	2.38	0.45
1:K:487:VAL:HG22	1:K:506:VAL:HG23	1.99	0.45
1:O:75:LYS:HB3	1:d:547:ALA:HA	1.98	0.45
1:O:547:ALA:HA	1:P:75:LYS:HB3	1.98	0.45
1:P:273:ALA:HB1	1:P:284:PHE:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:101:SER:HB2	1:T:174:MET:HB3	1.98	0.45
1:V:75:LYS:HB3	1:W:547:ALA:HA	1.98	0.45
1:W:160:HIS:HD2	1:W:478:HIS:HD2	1.65	0.45
1:a:73:TYR:CE1	1:a:89:THR:HG23	2.52	0.45
1:b:101:SER:HB2	1:b:174:MET:HB3	1.98	0.45
1:b:544:THR:HG1	1:c:527:ARG:HH11	1.61	0.45
1:c:276:ASN:OD1	1:c:276:ASN:N	2.45	0.45
1:c:401:TRP:CE3	1:c:404:VAL:HG23	2.51	0.45
1:d:527:ARG:HH11	1:n:544:THR:CB	2.28	0.45
1:g:444:ASP:OD2	1:g:569:LYS:NZ	2.47	0.45
1:j:75:LYS:HB3	1:l:547:ALA:HA	1.98	0.45
1:j:160:HIS:HD2	1:j:478:HIS:HD2	1.65	0.45
1:k:177:LEU:HD11	1:k:551:TYR:CG	2.51	0.45
1:l:75:LYS:HB3	1:n:547:ALA:HA	1.98	0.45
1:m:321:GLY:HA3	1:m:359:ASP:HB2	1.97	0.45
1:p:73:TYR:CE1	1:p:89:THR:HG23	2.52	0.45
1:s:101:SER:HB2	1:s:174:MET:HB3	1.98	0.45
1:s:121:LYS:HA	1:s:121:LYS:HD2	1.80	0.45
1:t:527:ARG:HH11	1:5:544:THR:CB	2.28	0.45
1:u:92:GLY:O	1:u:485:VAL:N	2.38	0.45
1:u:547:ALA:HA	1:2:75:LYS:HB3	1.99	0.45
1:v:148:LEU:O	1:v:149:THR:OG1	2.28	0.45
1:v:276:ASN:OD1	1:v:276:ASN:N	2.45	0.45
1:w:273:ALA:HB1	1:w:284:PHE:HB3	1.99	0.45
1:w:401:TRP:CE3	1:w:404:VAL:HG23	2.51	0.45
1:1:401:TRP:CE3	1:1:404:VAL:HG23	2.51	0.45
1:3:92:GLY:O	1:3:485:VAL:N	2.38	0.45
1:4:160:HIS:HD2	1:4:478:HIS:HD2	1.65	0.45
1:4:334:ALA:O	1:4:348:GLN:NE2	2.38	0.45
1:4:487:VAL:HG22	1:4:506:VAL:HG23	1.99	0.45
1:6:160:HIS:HD2	1:6:478:HIS:HD2	1.65	0.45
1:7:334:ALA:O	1:7:348:GLN:NE2	2.38	0.45
1:A:273:ALA:HB1	1:A:284:PHE:HB3	1.99	0.45
1:B:275:ARG:HH22	1:B:414:ILE:CG1	2.25	0.45
1:C:73:TYR:CE1	1:C:89:THR:HG23	2.52	0.45
1:E:273:ALA:HB1	1:E:284:PHE:HB3	1.99	0.45
1:E:401:TRP:CE3	1:E:404:VAL:HG23	2.51	0.45
1:E:407:GLN:NE2	1:Q:321:GLY:H	2.11	0.45
1:G:547:ALA:HA	1:W:75:LYS:HB3	1.98	0.45
1:H:75:LYS:HB3	1:Z:547:ALA:HA	1.98	0.45
1:K:101:SER:HB2	1:K:174:MET:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:160:HIS:HD2	1:L:478:HIS:HD2	1.65	0.45
1:N:73:TYR:CE1	1:N:89:THR:HG23	2.52	0.45
1:O:101:SER:HB2	1:O:174:MET:HB3	1.99	0.45
1:O:121:LYS:HA	1:O:121:LYS:HD2	1.79	0.45
1:O:463:LYS:CE	1:n:467:PHE:O	2.65	0.45
1:Q:177:LEU:HD11	1:Q:551:TYR:CG	2.51	0.45
1:V:73:TYR:CE1	1:V:89:THR:HG23	2.52	0.45
1:V:177:LEU:HD11	1:V:551:TYR:CG	2.51	0.45
1:Y:273:ALA:HB1	1:Y:284:PHE:HB3	1.99	0.45
1:a:92:GLY:O	1:a:485:VAL:N	2.38	0.45
1:a:121:LYS:HD2	1:a:121:LYS:HA	1.79	0.45
1:a:401:TRP:CE3	1:a:404:VAL:HG23	2.51	0.45
1:b:121:LYS:HA	1:b:121:LYS:HD2	1.79	0.45
1:b:273:ALA:HB1	1:b:284:PHE:HB3	1.99	0.45
1:c:334:ALA:O	1:c:348:GLN:NE2	2.38	0.45
1:d:467:PHE:O	1:l:463:LYS:CE	2.65	0.45
1:l:101:SER:HB2	1:l:174:MET:HB3	1.99	0.45
1:m:101:SER:HB2	1:m:174:MET:HB3	1.98	0.45
1:r:73:TYR:CE1	1:r:89:THR:HG23	2.52	0.45
1:t:547:ALA:HA	1:6:75:LYS:HB3	1.98	0.45
1:v:121:LYS:HA	1:v:121:LYS:HD2	1.79	0.45
1:x:177:LEU:HD11	1:x:551:TYR:CG	2.51	0.45
1:y:487:VAL:HG22	1:y:506:VAL:HG23	1.99	0.45
1:z:160:HIS:HD2	1:z:478:HIS:HD2	1.65	0.45
1:z:487:VAL:HG22	1:z:506:VAL:HG23	1.99	0.45
1:2:92:GLY:O	1:2:485:VAL:N	2.38	0.45
1:3:73:TYR:CE1	1:3:89:THR:HG23	2.52	0.45
1:5:75:LYS:HB3	1:8:547:ALA:HA	1.98	0.45
1:7:273:ALA:HB1	1:7:284:PHE:HB3	1.99	0.45
1:A:276:ASN:OD1	1:A:276:ASN:N	2.45	0.45
1:A:401:TRP:CE3	1:A:404:VAL:HG23	2.51	0.45
1:A:405:PHE:HB2	1:G:324:THR:HG23	1.99	0.45
1:A:487:VAL:HG22	1:A:506:VAL:HG23	1.99	0.45
1:C:101:SER:HB2	1:C:174:MET:HB3	1.98	0.45
1:C:334:ALA:O	1:C:348:GLN:NE2	2.38	0.45
1:D:75:LYS:HB3	1:E:547:ALA:HA	1.98	0.45
1:D:160:HIS:HD2	1:D:478:HIS:HD2	1.65	0.45
1:E:160:HIS:HD2	1:E:478:HIS:HD2	1.65	0.45
1:F:487:VAL:HG22	1:F:506:VAL:HG23	1.99	0.45
1:I:101:SER:HB2	1:I:174:MET:HB3	1.99	0.45
1:J:73:TYR:CE1	1:J:89:THR:HG23	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:275:ARG:HH22	1:Q:414:ILE:CG1	2.25	0.45
1:S:273:ALA:HB1	1:S:284:PHE:HB3	1.99	0.45
1:S:547:ALA:HA	1:d:75:LYS:HB3	1.99	0.45
1:T:73:TYR:CE1	1:T:89:THR:HG23	2.52	0.45
1:Y:487:VAL:HG22	1:Y:506:VAL:HG23	1.99	0.45
1:b:160:HIS:HD2	1:b:478:HIS:HD2	1.65	0.45
1:b:487:VAL:HG22	1:b:506:VAL:HG23	1.99	0.45
1:b:547:ALA:HA	1:o:75:LYS:HB3	1.98	0.45
1:f:160:HIS:HD2	1:f:478:HIS:HD2	1.65	0.45
1:f:487:VAL:HG22	1:f:506:VAL:HG23	1.99	0.45
1:g:73:TYR:CE1	1:g:89:THR:HG23	2.52	0.45
1:g:101:SER:HB2	1:g:174:MET:HB3	1.98	0.45
1:g:105:PRO:HB2	1:z:528:PRO:HD3	1.99	0.45
1:g:273:ALA:HB1	1:g:284:PHE:HB3	1.99	0.45
1:h:276:ASN:OD1	1:h:276:ASN:N	2.45	0.45
1:i:73:TYR:CE1	1:i:89:THR:HG23	2.52	0.45
1:k:75:LYS:HB3	1:w:547:ALA:HA	1.98	0.45
1:m:73:TYR:CE1	1:m:89:THR:HG23	2.52	0.45
1:n:75:LYS:HB3	1:r:547:ALA:HA	1.99	0.45
1:p:75:LYS:HB3	1:6:547:ALA:HA	1.98	0.45
1:p:177:LEU:HD11	1:p:551:TYR:CG	2.51	0.45
1:p:275:ARG:HH22	1:p:414:ILE:CG1	2.25	0.45
1:q:342:GLN:HE22	1:r:410:THR:HG22	1.82	0.45
1:t:324:THR:HG23	1:v:405:PHE:HB2	1.99	0.45
1:u:101:SER:HB2	1:u:174:MET:HB3	1.99	0.45
1:v:401:TRP:CE3	1:v:404:VAL:HG23	2.51	0.45
1:v:487:VAL:HG22	1:v:506:VAL:HG23	1.99	0.45
1:w:160:HIS:HD2	1:w:478:HIS:HD2	1.65	0.45
1:3:401:TRP:CE3	1:3:404:VAL:HG23	2.51	0.45
1:4:101:SER:HB2	1:4:174:MET:HB3	1.98	0.45
1:5:101:SER:HB2	1:5:174:MET:HB3	1.98	0.45
1:7:487:VAL:HG22	1:7:506:VAL:HG23	1.99	0.45
1:7:527:ARG:NH1	1:8:544:THR:OG1	2.39	0.45
1:D:92:GLY:O	1:D:485:VAL:N	2.38	0.44
1:G:160:HIS:HD2	1:G:478:HIS:HD2	1.65	0.44
1:H:101:SER:HB2	1:H:174:MET:HB3	1.98	0.44
1:H:487:VAL:HG22	1:H:506:VAL:HG23	1.99	0.44
1:L:487:VAL:HG22	1:L:506:VAL:HG23	1.99	0.44
1:M:73:TYR:CE1	1:M:89:THR:HG23	2.52	0.44
1:M:92:GLY:O	1:M:485:VAL:N	2.38	0.44
1:M:160:HIS:HD2	1:M:478:HIS:HD2	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:342:GLN:HE22	1:P:410:THR:HG22	1.83	0.44
1:R:342:GLN:HE22	1:S:410:THR:HG22	1.82	0.44
1:R:401:TRP:CE3	1:R:404:VAL:HG23	2.51	0.44
1:U:527:ARG:HH11	1:V:544:THR:HG1	1.59	0.44
1:V:275:ARG:HH22	1:V:414:ILE:CG1	2.25	0.44
1:X:324:THR:HG23	1:e:405:PHE:HB2	1.99	0.44
1:Y:73:TYR:CE1	1:Y:89:THR:HG23	2.52	0.44
1:Z:405:PHE:HB2	1:4:324:THR:HG23	2.00	0.44
1:c:405:PHE:HB2	1:o:324:THR:HG23	1.99	0.44
1:d:73:TYR:CE1	1:d:89:THR:HG23	2.52	0.44
1:d:334:ALA:O	1:d:348:GLN:NE2	2.38	0.44
1:e:160:HIS:HD2	1:e:478:HIS:HD2	1.65	0.44
1:f:75:LYS:HB3	1:z:547:ALA:HA	1.98	0.44
1:f:273:ALA:HB1	1:f:284:PHE:HB3	1.99	0.44
1:h:73:TYR:CE1	1:h:89:THR:HG23	2.52	0.44
1:h:92:GLY:O	1:h:485:VAL:N	2.38	0.44
1:h:160:HIS:HD2	1:h:478:HIS:HD2	1.65	0.44
1:i:342:GLN:HE22	1:j:410:THR:HG22	1.83	0.44
1:j:73:TYR:CE1	1:j:89:THR:HG23	2.52	0.44
1:k:160:HIS:HD2	1:k:478:HIS:HD2	1.65	0.44
1:o:527:ARG:HH11	1:6:544:THR:CB	2.28	0.44
1:r:75:LYS:HB3	1:x:547:ALA:HA	1.98	0.44
1:r:273:ALA:HB1	1:r:284:PHE:HB3	1.99	0.44
1:t:160:HIS:HD2	1:t:478:HIS:HD2	1.65	0.44
1:u:273:ALA:HB1	1:u:284:PHE:HB3	1.99	0.44
1:w:407:GLN:NE2	1:x:321:GLY:H	2.11	0.44
1:x:275:ARG:HH22	1:x:414:ILE:CG1	2.25	0.44
1:1:275:ARG:HH22	1:1:414:ILE:CG1	2.25	0.44
1:2:73:TYR:CE1	1:2:89:THR:HG23	2.52	0.44
1:3:121:LYS:HD2	1:3:121:LYS:HA	1.79	0.44
1:5:276:ASN:OD1	1:5:276:ASN:N	2.45	0.44
1:5:487:VAL:HG22	1:5:506:VAL:HG23	1.99	0.44
1:7:73:TYR:CE1	1:7:89:THR:HG23	2.52	0.44
1:8:73:TYR:CE1	1:8:89:THR:HG23	2.52	0.44
1:A:467:PHE:O	1:G:463:LYS:CE	2.65	0.44
1:B:73:TYR:CE1	1:B:89:THR:HG23	2.52	0.44
1:C:273:ALA:HB1	1:C:284:PHE:HB3	1.99	0.44
1:E:342:GLN:HE22	1:Q:410:THR:HG22	1.82	0.44
1:E:487:VAL:HG22	1:E:506:VAL:HG23	1.99	0.44
1:H:334:ALA:O	1:H:348:GLN:NE2	2.38	0.44
1:I:273:ALA:HB1	1:I:284:PHE:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:324:THR:HG23	1:8:405:PHE:HB2	2.00	0.44
1:N:101:SER:HB2	1:N:174:MET:HB3	1.98	0.44
1:O:73:TYR:CE1	1:O:89:THR:HG23	2.52	0.44
1:T:487:VAL:HG22	1:T:506:VAL:HG23	1.99	0.44
1:V:92:GLY:O	1:V:485:VAL:N	2.38	0.44
1:W:73:TYR:CE1	1:W:89:THR:HG23	2.52	0.44
1:W:544:THR:CB	1:X:527:ARG:HH11	2.28	0.44
1:X:75:LYS:HB3	1:f:547:ALA:HA	1.99	0.44
1:Z:73:TYR:CE1	1:Z:89:THR:HG23	2.52	0.44
1:c:160:HIS:HD2	1:c:478:HIS:HD2	1.65	0.44
1:f:121:LYS:HA	1:f:121:LYS:HD2	1.79	0.44
1:i:101:SER:HB2	1:i:174:MET:HB3	1.98	0.44
1:i:324:THR:HG23	1:k:405:PHE:HB2	1.99	0.44
1:j:418:ASN:O	1:j:419:THR:OG1	2.33	0.44
1:j:487:VAL:HG22	1:j:506:VAL:HG23	1.99	0.44
1:k:92:GLY:O	1:k:485:VAL:N	2.38	0.44
1:m:275:ARG:HH22	1:m:414:ILE:CG1	2.25	0.44
1:n:73:TYR:CE1	1:n:89:THR:HG23	2.52	0.44
1:n:392:ARG:HG3	1:n:392:ARG:O	2.18	0.44
1:o:487:VAL:HG22	1:o:506:VAL:HG23	1.99	0.44
1:p:92:GLY:O	1:p:485:VAL:N	2.38	0.44
1:q:321:GLY:H	1:s:407:GLN:NE2	2.11	0.44
1:q:324:THR:HG23	1:s:405:PHE:HB2	2.00	0.44
1:q:401:TRP:CE3	1:q:404:VAL:HG23	2.51	0.44
1:t:342:GLN:HE22	1:u:410:THR:HG22	1.82	0.44
1:w:275:ARG:HH22	1:w:414:ILE:CG1	2.25	0.44
1:y:311:GLN:O	1:y:312:SER:OG	2.25	0.44
1:1:487:VAL:HG22	1:1:506:VAL:HG23	1.99	0.44
1:2:401:TRP:CE3	1:2:404:VAL:HG23	2.51	0.44
1:A:531:LYS:HD2	1:A:531:LYS:HA	1.76	0.44
1:B:487:VAL:HG22	1:B:506:VAL:HG23	1.99	0.44
1:C:467:PHE:O	1:b:463:LYS:CE	2.66	0.44
1:C:530:SER:HA	1:L:533:ASP:OD1	2.18	0.44
1:D:101:SER:HB2	1:D:174:MET:HB3	1.98	0.44
1:D:410:THR:HG22	1:P:342:GLN:HE22	1.82	0.44
1:G:273:ALA:HB1	1:G:284:PHE:HB3	1.99	0.44
1:G:342:GLN:HE22	1:I:410:THR:HG22	1.82	0.44
1:H:342:GLN:HE22	1:W:410:THR:HG22	1.82	0.44
1:I:487:VAL:HG22	1:I:506:VAL:HG23	1.99	0.44
1:J:401:TRP:CE3	1:J:404:VAL:HG23	2.51	0.44
1:M:547:ALA:HA	1:N:75:LYS:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:73:TYR:CE1	1:P:89:THR:HG23	2.52	0.44
1:P:418:ASN:O	1:P:419:THR:OG1	2.33	0.44
1:Q:105:PRO:HB2	1:R:528:PRO:HD3	2.00	0.44
1:R:321:GLY:H	1:U:407:GLN:NE2	2.11	0.44
1:R:324:THR:HG23	1:U:405:PHE:HB2	2.00	0.44
1:S:342:GLN:HE22	1:U:410:THR:HG22	1.83	0.44
1:T:405:PHE:HB2	1:d:324:THR:HG23	2.00	0.44
1:V:273:ALA:HB1	1:V:284:PHE:HB3	1.99	0.44
1:V:401:TRP:CE3	1:V:404:VAL:HG23	2.51	0.44
1:W:405:PHE:HB2	1:Y:324:THR:HG23	2.00	0.44
1:X:487:VAL:HG22	1:X:506:VAL:HG23	1.99	0.44
1:a:120:PRO:HG3	1:a:516:TRP:CZ3	2.53	0.44
1:b:275:ARG:HH22	1:b:414:ILE:CG1	2.25	0.44
1:c:273:ALA:HB1	1:c:284:PHE:HB3	1.99	0.44
1:c:392:ARG:HG3	1:c:392:ARG:O	2.18	0.44
1:d:101:SER:HB2	1:d:174:MET:HB3	1.98	0.44
1:d:392:ARG:HG3	1:d:392:ARG:O	2.18	0.44
1:e:73:TYR:CE1	1:e:89:THR:HG23	2.52	0.44
1:e:334:ALA:O	1:e:348:GLN:NE2	2.38	0.44
1:e:392:ARG:HG3	1:e:392:ARG:O	2.18	0.44
1:e:527:ARG:HH11	1:f:544:THR:HG1	1.61	0.44
1:e:547:ALA:HA	1:h:75:LYS:HB3	1.98	0.44
1:g:160:HIS:HD2	1:g:478:HIS:HD2	1.65	0.44
1:g:324:THR:HG23	1:h:405:PHE:HB2	2.00	0.44
1:g:528:PRO:HD3	1:z:105:PRO:HB2	1.99	0.44
1:j:342:GLN:HE22	1:k:410:THR:HG22	1.83	0.44
1:l:73:TYR:CE1	1:l:89:THR:HG23	2.52	0.44
1:m:405:PHE:HB2	1:n:324:THR:HG23	2.00	0.44
1:m:487:VAL:HG22	1:m:506:VAL:HG23	1.99	0.44
1:o:273:ALA:HB1	1:o:284:PHE:HB3	1.99	0.44
1:p:523:THR:HG21	1:s:106:GLN:HE22	1.83	0.44
1:q:405:PHE:HB2	1:r:324:THR:HG23	2.00	0.44
1:q:528:PRO:HD3	1:x:105:PRO:HB2	2.00	0.44
1:r:147:ASP:OD2	1:r:504:LEU:HD22	2.18	0.44
1:r:342:GLN:HE22	1:s:410:THR:HG22	1.82	0.44
1:u:487:VAL:HG22	1:u:506:VAL:HG23	1.99	0.44
1:w:342:GLN:HE22	1:x:410:THR:HG22	1.83	0.44
1:w:487:VAL:HG22	1:w:506:VAL:HG23	1.99	0.44
1:5:392:ARG:HG3	1:5:392:ARG:O	2.18	0.44
1:6:73:TYR:CE1	1:6:89:THR:HG23	2.52	0.44
1:A:120:PRO:HG3	1:A:516:TRP:CZ3	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:463:LYS:CE	1:I:467:PHE:O	2.65	0.44
1:A:533:ASP:OD1	1:F:530:SER:HA	2.18	0.44
1:C:120:PRO:HG3	1:C:516:TRP:CZ3	2.53	0.44
1:C:160:HIS:HD2	1:C:478:HIS:HD2	1.65	0.44
1:C:324:THR:HG23	1:M:405:PHE:HB2	2.00	0.44
1:D:405:PHE:HB2	1:N:324:THR:HG23	2.00	0.44
1:D:463:LYS:CE	1:P:467:PHE:O	2.66	0.44
1:E:147:ASP:OD2	1:E:504:LEU:HD22	2.18	0.44
1:E:410:THR:HG22	1:F:342:GLN:HE22	1.83	0.44
1:F:547:ALA:HA	1:G:75:LYS:HB3	1.98	0.44
1:H:392:ARG:HG3	1:H:392:ARG:O	2.18	0.44
1:J:523:THR:HG21	1:K:106:GLN:HE22	1.83	0.44
1:M:75:LYS:HB3	1:c:547:ALA:HA	1.98	0.44
1:M:101:SER:HB2	1:M:174:MET:HB3	1.98	0.44
1:N:523:THR:HG21	1:O:106:GLN:HE22	1.83	0.44
1:N:533:ASP:OD1	1:O:530:SER:HA	2.18	0.44
1:N:547:ALA:HA	1:m:75:LYS:HB3	1.99	0.44
1:P:487:VAL:HG22	1:P:506:VAL:HG23	1.99	0.44
1:Q:392:ARG:HG3	1:Q:392:ARG:O	2.18	0.44
1:Q:487:VAL:HG22	1:Q:506:VAL:HG23	1.99	0.44
1:R:405:PHE:HB2	1:S:324:THR:HG23	2.00	0.44
1:S:147:ASP:OD2	1:S:504:LEU:HD22	2.18	0.44
1:T:75:LYS:HB3	1:i:547:ALA:HA	1.99	0.44
1:T:147:ASP:OD2	1:T:504:LEU:HD22	2.18	0.44
1:T:275:ARG:HH22	1:T:414:ILE:CG1	2.25	0.44
1:T:410:THR:HG22	1:l:342:GLN:HE22	1.83	0.44
1:U:106:GLN:HE22	1:V:523:THR:HG21	1.83	0.44
1:X:120:PRO:HG3	1:X:516:TRP:CZ3	2.53	0.44
1:X:148:LEU:O	1:X:149:THR:OG1	2.28	0.44
1:a:392:ARG:HG3	1:a:392:ARG:O	2.18	0.44
1:c:73:TYR:CE1	1:c:89:THR:HG23	2.52	0.44
1:c:147:ASP:OD2	1:c:504:LEU:HD22	2.18	0.44
1:e:101:SER:HB2	1:e:174:MET:HB3	1.98	0.44
1:e:147:ASP:OD2	1:e:504:LEU:HD22	2.18	0.44
1:e:273:ALA:HB1	1:e:284:PHE:HB3	1.99	0.44
1:e:487:VAL:HG22	1:e:506:VAL:HG23	1.99	0.44
1:f:342:GLN:HE22	1:h:410:THR:HG22	1.82	0.44
1:g:120:PRO:HG3	1:g:516:TRP:CZ3	2.53	0.44
1:g:321:GLY:H	1:h:407:GLN:NE2	2.12	0.44
1:g:334:ALA:O	1:g:348:GLN:NE2	2.38	0.44
1:h:547:ALA:HA	1:i:75:LYS:HB3	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:523:THR:HG21	1:l:106:GLN:HE22	1.83	0.44
1:i:533:ASP:OD1	1:l:530:SER:HA	2.18	0.44
1:j:467:PHE:O	1:k:463:LYS:CE	2.66	0.44
1:k:101:SER:HB2	1:k:174:MET:HB3	1.98	0.44
1:l:147:ASP:OD2	1:l:504:LEU:HD22	2.18	0.44
1:m:147:ASP:OD2	1:m:504:LEU:HD22	2.18	0.44
1:m:467:PHE:O	1:n:463:LYS:CE	2.66	0.44
1:n:101:SER:HB2	1:n:174:MET:HB3	1.98	0.44
1:n:334:ALA:O	1:n:348:GLN:NE2	2.38	0.44
1:o:120:PRO:HG3	1:o:516:TRP:CZ3	2.53	0.44
1:p:273:ALA:HB1	1:p:284:PHE:HB3	1.99	0.44
1:p:401:TRP:CE3	1:p:404:VAL:HG23	2.51	0.44
1:t:273:ALA:HB1	1:t:284:PHE:HB3	1.99	0.44
1:u:444:ASP:OD2	1:u:569:LYS:NZ	2.47	0.44
1:w:147:ASP:OD2	1:w:504:LEU:HD22	2.18	0.44
1:w:410:THR:HG22	1:y:342:GLN:HE22	1.83	0.44
1:x:392:ARG:HG3	1:x:392:ARG:O	2.18	0.44
1:y:148:LEU:O	1:y:149:THR:OG1	2.28	0.44
1:z:120:PRO:HG3	1:z:516:TRP:CZ3	2.53	0.44
1:1:73:TYR:CE1	1:1:89:THR:HG23	2.52	0.44
1:2:523:THR:HG21	1:4:106:GLN:HE22	1.83	0.44
1:3:120:PRO:HG3	1:3:516:TRP:CZ3	2.53	0.44
1:5:342:GLN:HE22	1:6:410:THR:HG22	1.82	0.44
1:6:405:PHE:HB2	1:7:324:THR:HG23	2.00	0.44
1:A:121:LYS:HA	1:A:121:LYS:HD2	1.79	0.44
1:A:523:THR:HG21	1:F:106:GLN:HE22	1.83	0.44
1:A:530:SER:HA	1:F:533:ASP:OD1	2.18	0.44
1:C:392:ARG:HG3	1:C:392:ARG:O	2.18	0.44
1:D:120:PRO:HG3	1:D:516:TRP:CZ3	2.53	0.44
1:D:533:ASP:OD1	1:M:530:SER:HA	2.18	0.44
1:F:160:HIS:HD2	1:F:478:HIS:HD2	1.65	0.44
1:F:324:THR:HG23	1:Q:405:PHE:HB2	1.99	0.44
1:H:160:HIS:HD2	1:H:478:HIS:HD2	1.65	0.44
1:H:276:ASN:OD1	1:H:276:ASN:N	2.45	0.44
1:I:444:ASP:OD2	1:I:569:LYS:NZ	2.47	0.44
1:J:273:ALA:HB1	1:J:284:PHE:HB3	1.99	0.44
1:K:463:LYS:CE	1:8:467:PHE:O	2.66	0.44
1:L:120:PRO:HG3	1:L:516:TRP:CZ3	2.53	0.44
1:L:547:ALA:HA	1:b:75:LYS:HB3	1.99	0.44
1:O:147:ASP:OD2	1:O:504:LEU:HD22	2.18	0.44
1:O:342:GLN:HE22	1:m:410:THR:HG22	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:75:LYS:HB3	1:V:547:ALA:HA	1.98	0.44
1:R:120:PRO:HG3	1:R:516:TRP:CZ3	2.53	0.44
1:R:147:ASP:OD2	1:R:504:LEU:HD22	2.18	0.44
1:S:106:GLN:HE22	1:T:523:THR:HG21	1.83	0.44
1:T:342:GLN:HE22	1:d:410:THR:HG22	1.83	0.44
1:T:467:PHE:O	1:d:463:LYS:CE	2.66	0.44
1:V:120:PRO:HG3	1:V:516:TRP:CZ3	2.53	0.44
1:W:533:ASP:OD1	1:X:530:SER:HA	2.18	0.44
1:X:73:TYR:CE1	1:X:89:THR:HG23	2.52	0.44
1:X:273:ALA:HB1	1:X:284:PHE:HB3	1.99	0.44
1:c:101:SER:HB2	1:c:174:MET:HB3	1.98	0.44
1:c:379:SER:OG	1:c:451:ASP:OD2	2.26	0.44
1:c:487:VAL:HG22	1:c:506:VAL:HG23	1.99	0.44
1:d:533:ASP:OD1	1:n:530:SER:HA	2.18	0.44
1:m:342:GLN:HE22	1:n:410:THR:HG22	1.83	0.44
1:m:523:THR:HG21	1:r:106:GLN:HE22	1.83	0.44
1:o:530:SER:HA	1:6:533:ASP:OD1	2.18	0.44
1:o:547:ALA:HA	1:7:75:LYS:HB3	1.98	0.44
1:p:120:PRO:HG3	1:p:516:TRP:CZ3	2.53	0.44
1:p:547:ALA:HA	1:q:75:LYS:HB3	1.98	0.44
1:q:120:PRO:HG3	1:q:516:TRP:CZ3	2.53	0.44
1:q:530:SER:HA	1:x:533:ASP:OD1	2.18	0.44
1:t:75:LYS:HB3	1:y:547:ALA:HA	1.98	0.44
1:t:463:LYS:CE	1:v:467:PHE:O	2.65	0.44
1:t:544:THR:CB	1:5:527:ARG:HH11	2.28	0.44
1:u:467:PHE:O	1:v:463:LYS:CE	2.65	0.44
1:v:120:PRO:HG3	1:v:516:TRP:CZ3	2.53	0.44
1:v:523:THR:HG21	1:y:106:GLN:HE22	1.83	0.44
1:v:530:SER:HA	1:y:533:ASP:OD1	2.18	0.44
1:v:533:ASP:OD1	1:y:530:SER:HA	2.18	0.44
1:x:147:ASP:OD2	1:x:504:LEU:HD22	2.18	0.44
1:x:487:VAL:HG22	1:x:506:VAL:HG23	1.99	0.44
1:2:273:ALA:HB1	1:2:284:PHE:HB3	1.99	0.44
1:2:487:VAL:HG22	1:2:506:VAL:HG23	2.00	0.44
1:3:392:ARG:HG3	1:3:392:ARG:O	2.18	0.44
1:B:324:THR:HG23	1:L:405:PHE:HB2	2.00	0.44
1:B:463:LYS:CE	1:L:467:PHE:O	2.66	0.44
1:C:75:LYS:HB3	1:D:547:ALA:HA	1.98	0.44
1:C:147:ASP:OD2	1:C:504:LEU:HD22	2.18	0.44
1:E:405:PHE:HB2	1:Q:324:THR:HG23	1.99	0.44
1:G:147:ASP:OD2	1:G:504:LEU:HD22	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:467:PHE:O	1:L:463:LYS:CE	2.66	0.44
1:J:487:VAL:HG22	1:J:506:VAL:HG23	2.00	0.44
1:K:342:GLN:HE22	1:a:410:THR:HG22	1.83	0.44
1:L:73:TYR:CE1	1:L:89:THR:HG23	2.52	0.44
1:L:147:ASP:OD2	1:L:504:LEU:HD22	2.18	0.44
1:O:405:PHE:HB2	1:m:324:THR:HG23	2.00	0.44
1:Q:147:ASP:OD2	1:Q:504:LEU:HD22	2.18	0.44
1:S:530:SER:HA	1:T:533:ASP:OD1	2.18	0.44
1:T:273:ALA:HB1	1:T:284:PHE:HB3	1.99	0.44
1:T:324:THR:HG23	1:l:405:PHE:HB2	2.00	0.44
1:V:463:LYS:CE	1:X:467:PHE:O	2.66	0.44
1:W:106:GLN:HE22	1:X:523:THR:HG21	1.83	0.44
1:X:547:ALA:HA	1:Y:75:LYS:HB3	1.98	0.44
1:Z:467:PHE:O	1:4:463:LYS:CE	2.66	0.44
1:d:530:SER:HA	1:n:533:ASP:OD1	2.18	0.44
1:g:392:ARG:O	1:g:392:ARG:HG3	2.18	0.44
1:g:463:LYS:CE	1:h:467:PHE:O	2.65	0.44
1:h:101:SER:HB2	1:h:174:MET:HB3	1.98	0.44
1:k:120:PRO:HG3	1:k:516:TRP:CZ3	2.53	0.44
1:m:533:ASP:OD1	1:r:530:SER:HA	2.18	0.44
1:n:160:HIS:HD2	1:n:478:HIS:HD2	1.65	0.44
1:o:73:TYR:CE1	1:o:89:THR:HG23	2.52	0.44
1:o:147:ASP:OD2	1:o:504:LEU:HD22	2.18	0.44
1:o:467:PHE:O	1:p:463:LYS:CE	2.66	0.44
1:o:523:THR:HG21	1:6:106:GLN:HE22	1.83	0.44
1:q:547:ALA:HA	1:y:75:LYS:HB3	1.98	0.44
1:u:160:HIS:HD2	1:u:478:HIS:HD2	1.65	0.44
1:x:531:LYS:HA	1:x:531:LYS:HD2	1.76	0.44
1:y:160:HIS:HD2	1:y:478:HIS:HD2	1.65	0.44
1:z:410:THR:HG22	1:2:342:GLN:HE22	1.82	0.44
1:z:467:PHE:O	1:1:463:LYS:CE	2.66	0.44
1:3:410:THR:HG22	1:4:342:GLN:HE22	1.82	0.44
1:4:120:PRO:HG3	1:4:516:TRP:CZ3	2.53	0.44
1:5:160:HIS:HD2	1:5:478:HIS:HD2	1.65	0.44
1:5:334:ALA:O	1:5:348:GLN:NE2	2.38	0.44
1:5:463:LYS:CE	1:7:467:PHE:O	2.66	0.44
1:A:147:ASP:OD2	1:A:504:LEU:HD22	2.18	0.44
1:B:101:SER:HB2	1:B:174:MET:HB3	1.98	0.44
1:B:392:ARG:HG3	1:B:392:ARG:O	2.18	0.44
1:C:463:LYS:CE	1:M:467:PHE:O	2.66	0.44
1:C:523:THR:HG21	1:L:106:GLN:HE22	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:533:ASP:OD1	1:L:530:SER:HA	2.18	0.44
1:D:106:GLN:HE22	1:M:523:THR:HG21	1.83	0.44
1:F:75:LYS:HB3	1:R:547:ALA:HA	1.99	0.44
1:F:311:GLN:O	1:F:312:SER:OG	2.25	0.44
1:G:120:PRO:HG3	1:G:516:TRP:CZ3	2.53	0.44
1:G:487:VAL:HG22	1:G:506:VAL:HG23	1.99	0.44
1:G:544:THR:CB	1:H:527:ARG:HH11	2.28	0.44
1:H:463:LYS:CE	1:Y:467:PHE:O	2.66	0.44
1:J:342:GLN:HE22	1:L:410:THR:HG22	1.83	0.44
1:K:120:PRO:HG3	1:K:516:TRP:CZ3	2.53	0.44
1:M:273:ALA:HB1	1:M:284:PHE:HB3	1.99	0.44
1:M:410:THR:HG22	1:b:342:GLN:HE22	1.83	0.44
1:N:106:GLN:HE22	1:O:523:THR:HG21	1.83	0.44
1:U:120:PRO:HG3	1:U:516:TRP:CZ3	2.53	0.44
1:U:392:ARG:HG3	1:U:392:ARG:O	2.18	0.44
1:U:533:ASP:OD1	1:V:530:SER:HA	2.18	0.44
1:W:444:ASP:OD2	1:W:569:LYS:NZ	2.47	0.44
1:W:467:PHE:O	1:Y:463:LYS:CE	2.66	0.44
1:Y:160:HIS:HD2	1:Y:478:HIS:HD2	1.65	0.44
1:a:54:ARG:NH1	1:a:515:GLU:OE2	2.48	0.44
1:a:530:SER:HA	1:3:533:ASP:OD1	2.18	0.44
1:a:533:ASP:OD1	1:3:530:SER:HA	2.18	0.44
1:d:160:HIS:HD2	1:d:478:HIS:HD2	1.65	0.44
1:e:106:GLN:HE22	1:f:523:THR:HG21	1.83	0.44
1:e:528:PRO:HD3	1:f:105:PRO:HB2	2.00	0.44
1:e:533:ASP:OD1	1:f:530:SER:HA	2.18	0.44
1:f:275:ARG:HH22	1:f:414:ILE:CG1	2.25	0.44
1:g:147:ASP:OD2	1:g:504:LEU:HD22	2.18	0.44
1:g:487:VAL:HG22	1:g:506:VAL:HG23	1.99	0.44
1:h:273:ALA:HB1	1:h:284:PHE:HB3	1.99	0.44
1:k:392:ARG:HG3	1:k:392:ARG:O	2.18	0.44
1:m:273:ALA:HB1	1:m:284:PHE:HB3	1.99	0.44
1:o:528:PRO:HD3	1:6:105:PRO:HB2	2.00	0.44
1:p:160:HIS:HD2	1:p:478:HIS:HD2	1.65	0.44
1:q:147:ASP:OD2	1:q:504:LEU:HD22	2.18	0.44
1:t:106:GLN:HE22	1:5:523:THR:HG21	1.83	0.44
1:t:120:PRO:HG3	1:t:516:TRP:CZ3	2.53	0.44
1:t:147:ASP:OD2	1:t:504:LEU:HD22	2.18	0.44
1:z:73:TYR:CE1	1:z:89:THR:HG23	2.52	0.44
1:z:147:ASP:OD2	1:z:504:LEU:HD22	2.18	0.44
1:z:405:PHE:HB2	1:1:324:THR:HG23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:463:LYS:CE	1:2:467:PHE:O	2.66	0.44
1:1:101:SER:HB2	1:1:174:MET:HB3	1.98	0.44
1:2:101:SER:HB2	1:2:174:MET:HB3	1.98	0.44
1:3:54:ARG:NH1	1:3:515:GLU:OE2	2.48	0.44
1:6:392:ARG:HG3	1:6:392:ARG:O	2.18	0.44
1:A:410:THR:HG22	1:I:342:GLN:HE22	1.83	0.44
1:D:147:ASP:OD2	1:D:504:LEU:HD22	2.18	0.44
1:D:392:ARG:O	1:D:392:ARG:HG3	2.18	0.44
1:E:106:GLN:HE22	1:P:523:THR:HG21	1.83	0.44
1:E:444:ASP:OD2	1:E:569:LYS:NZ	2.47	0.44
1:G:106:GLN:HE22	1:H:523:THR:HG21	1.83	0.44
1:H:324:THR:HG23	1:Y:405:PHE:HB2	1.99	0.44
1:I:120:PRO:HG3	1:I:516:TRP:CZ3	2.53	0.44
1:I:147:ASP:OD2	1:I:504:LEU:HD22	2.18	0.44
1:I:160:HIS:HD2	1:I:478:HIS:HD2	1.65	0.44
1:K:392:ARG:HG3	1:K:392:ARG:O	2.18	0.44
1:L:273:ALA:HB1	1:L:284:PHE:HB3	1.99	0.44
1:M:120:PRO:HG3	1:M:516:TRP:CZ3	2.53	0.44
1:M:392:ARG:HG3	1:M:392:ARG:O	2.18	0.44
1:M:463:LYS:CE	1:b:467:PHE:O	2.65	0.44
1:N:405:PHE:HB2	1:P:324:THR:HG23	1.99	0.44
1:N:467:PHE:O	1:P:463:LYS:CE	2.66	0.44
1:O:410:THR:HG22	1:n:342:GLN:HE22	1.83	0.44
1:P:392:ARG:HG3	1:P:392:ARG:O	2.18	0.44
1:Q:73:TYR:CE1	1:Q:89:THR:HG23	2.52	0.44
1:Q:120:PRO:HG3	1:Q:516:TRP:CZ3	2.53	0.44
1:Q:160:HIS:HD2	1:Q:478:HIS:HD2	1.65	0.44
1:Q:531:LYS:HA	1:Q:531:LYS:HD2	1.76	0.44
1:Q:533:ASP:OD1	1:R:530:SER:HA	2.18	0.44
1:R:463:LYS:CE	1:U:467:PHE:O	2.66	0.44
1:V:410:THR:HG22	1:X:342:GLN:HE22	1.83	0.44
1:W:105:PRO:HB2	1:X:528:PRO:HD3	2.00	0.44
1:W:392:ARG:O	1:W:392:ARG:HG3	2.18	0.44
1:X:147:ASP:OD2	1:X:504:LEU:HD22	2.18	0.44
1:Y:528:PRO:HD3	1:Z:105:PRO:HB2	2.00	0.44
1:b:105:PRO:HB2	1:c:528:PRO:HD3	2.00	0.44
1:b:392:ARG:HG3	1:b:392:ARG:O	2.18	0.44
1:b:523:THR:HG21	1:c:106:GLN:HE22	1.83	0.44
1:b:528:PRO:HD3	1:c:105:PRO:HB2	2.00	0.44
1:b:530:SER:HA	1:c:533:ASP:OD1	2.18	0.44
1:b:533:ASP:OD1	1:c:530:SER:HA	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:120:PRO:HG3	1:d:516:TRP:CZ3	2.53	0.44
1:d:147:ASP:OD2	1:d:504:LEU:HD22	2.18	0.44
1:d:342:GLN:HE22	1:l:410:THR:HG22	1.83	0.44
1:e:120:PRO:HG3	1:e:516:TRP:CZ3	2.53	0.44
1:f:73:TYR:CE1	1:f:89:THR:HG23	2.52	0.44
1:f:392:ARG:HG3	1:f:392:ARG:O	2.18	0.44
1:g:527:ARG:HH11	1:z:544:THR:HG1	1.63	0.44
1:h:487:VAL:HG22	1:h:506:VAL:HG23	1.99	0.44
1:h:530:SER:HA	1:k:533:ASP:OD1	2.18	0.44
1:i:106:GLN:HE22	1:l:523:THR:HG21	1.83	0.44
1:i:147:ASP:OD2	1:i:504:LEU:HD22	2.18	0.44
1:i:405:PHE:HB2	1:j:324:THR:HG23	1.99	0.44
1:i:467:PHE:O	1:j:463:LYS:CE	2.66	0.44
1:n:120:PRO:HG3	1:n:516:TRP:CZ3	2.53	0.44
1:o:148:LEU:O	1:o:149:THR:OG1	2.28	0.44
1:p:530:SER:HA	1:s:533:ASP:OD1	2.18	0.44
1:q:467:PHE:O	1:r:463:LYS:CE	2.66	0.44
1:s:120:PRO:HG3	1:s:516:TRP:CZ3	2.53	0.44
1:s:392:ARG:HG3	1:s:392:ARG:O	2.18	0.44
1:t:487:VAL:HG22	1:t:506:VAL:HG23	1.99	0.44
1:u:120:PRO:HG3	1:u:516:TRP:CZ3	2.53	0.44
1:u:342:GLN:HE22	1:v:410:THR:HG22	1.83	0.44
1:v:147:ASP:OD2	1:v:504:LEU:HD22	2.18	0.44
1:x:73:TYR:CE1	1:x:89:THR:HG23	2.52	0.44
1:1:392:ARG:O	1:1:392:ARG:HG3	2.18	0.44
1:2:147:ASP:OD2	1:2:504:LEU:HD22	2.18	0.44
1:2:392:ARG:HG3	1:2:392:ARG:O	2.18	0.44
1:4:392:ARG:O	1:4:392:ARG:HG3	2.18	0.44
1:5:324:THR:HG23	1:7:405:PHE:HB2	1.99	0.44
1:6:54:ARG:NH1	1:6:515:GLU:OE2	2.48	0.44
1:6:467:PHE:O	1:7:463:LYS:CE	2.66	0.44
1:B:523:THR:HG21	1:I:106:GLN:HE22	1.83	0.44
1:B:528:PRO:HD3	1:I:105:PRO:HB2	2.00	0.44
1:D:121:LYS:HA	1:D:121:LYS:HD2	1.79	0.44
1:D:467:PHE:O	1:N:463:LYS:CE	2.66	0.44
1:D:530:SER:HA	1:M:533:ASP:OD1	2.18	0.44
1:F:148:LEU:O	1:F:149:THR:OG1	2.28	0.44
1:F:334:ALA:O	1:F:348:GLN:NE2	2.38	0.44
1:G:392:ARG:HG3	1:G:392:ARG:O	2.18	0.44
1:J:101:SER:HB2	1:J:174:MET:HB3	1.98	0.44
1:J:392:ARG:HG3	1:J:392:ARG:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:410:THR:HG22	1:8:342:GLN:HE22	1.83	0.44
1:M:487:VAL:HG22	1:M:506:VAL:HG23	1.99	0.44
1:N:147:ASP:OD2	1:N:504:LEU:HD22	2.18	0.44
1:Q:523:THR:HG21	1:R:106:GLN:HE22	1.83	0.44
1:Q:530:SER:HA	1:R:533:ASP:OD1	2.18	0.44
1:R:467:PHE:O	1:S:463:LYS:CE	2.66	0.44
1:T:547:ALA:HA	1:U:75:LYS:HB3	1.98	0.44
1:V:160:HIS:HD2	1:V:478:HIS:HD2	1.65	0.44
1:X:160:HIS:HD2	1:X:478:HIS:HD2	1.65	0.44
1:X:334:ALA:O	1:X:348:GLN:NE2	2.38	0.44
1:Y:120:PRO:HG3	1:Y:516:TRP:CZ3	2.53	0.44
1:Y:530:SER:HA	1:Z:533:ASP:OD1	2.18	0.44
1:Z:273:ALA:HB1	1:Z:284:PHE:HB3	1.99	0.44
1:Z:342:GLN:HE22	1:4:410:THR:HG22	1.83	0.44
1:b:73:TYR:CE1	1:b:89:THR:HG23	2.52	0.44
1:b:120:PRO:HG3	1:b:516:TRP:CZ3	2.53	0.44
1:c:120:PRO:HG3	1:c:516:TRP:CZ3	2.53	0.44
1:e:379:SER:OG	1:e:451:ASP:OD2	2.26	0.44
1:e:530:SER:HA	1:f:533:ASP:OD1	2.18	0.44
1:f:215:ILE:HD13	1:g:398:MET:HE1	2.00	0.44
1:h:392:ARG:HG3	1:h:392:ARG:O	2.18	0.44
1:h:533:ASP:OD1	1:k:530:SER:HA	2.18	0.44
1:j:392:ARG:HG3	1:j:392:ARG:O	2.18	0.44
1:j:523:THR:HG21	1:w:106:GLN:HE22	1.83	0.44
1:k:121:LYS:HA	1:k:121:LYS:HD2	1.79	0.44
1:m:530:SER:HA	1:r:533:ASP:OD1	2.18	0.44
1:m:547:ALA:HA	1:s:75:LYS:HB3	1.98	0.44
1:n:147:ASP:OD2	1:n:504:LEU:HD22	2.18	0.44
1:o:160:HIS:HD2	1:o:478:HIS:HD2	1.65	0.44
1:o:342:GLN:HE22	1:p:410:THR:HG22	1.83	0.44
1:o:379:SER:OG	1:o:451:ASP:OD2	2.26	0.44
1:o:533:ASP:OD1	1:6:530:SER:HA	2.18	0.44
1:p:101:SER:HB2	1:p:174:MET:HB3	1.98	0.44
1:q:463:LYS:CE	1:s:467:PHE:O	2.66	0.44
1:q:531:LYS:HA	1:q:531:LYS:HD2	1.76	0.44
1:t:392:ARG:HG3	1:t:392:ARG:O	2.18	0.44
1:u:105:PRO:HB2	1:l:528:PRO:HD3	2.00	0.44
1:w:444:ASP:OD2	1:w:569:LYS:NZ	2.47	0.44
1:w:451:ASP:OD1	1:w:451:ASP:N	2.50	0.44
1:x:120:PRO:HG3	1:x:516:TRP:CZ3	2.53	0.44
1:x:160:HIS:HD2	1:x:478:HIS:HD2	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:405:PHE:HB2	1:y:324:THR:HG23	1.99	0.44
1:7:120:PRO:HG3	1:7:516:TRP:CZ3	2.53	0.44
1:7:160:HIS:HD2	1:7:478:HIS:HD2	1.65	0.44
1:7:528:PRO:HD3	1:8:105:PRO:HB2	2.00	0.44
1:7:530:SER:HA	1:8:533:ASP:OD1	2.18	0.44
1:8:273:ALA:HB1	1:8:284:PHE:HB3	1.99	0.44
1:C:105:PRO:HB2	1:L:528:PRO:HD3	2.00	0.43
1:C:342:GLN:HE22	1:b:410:THR:HG22	1.83	0.43
1:C:487:VAL:HG22	1:C:506:VAL:HG23	1.99	0.43
1:C:528:PRO:HD3	1:L:105:PRO:HB2	2.00	0.43
1:E:463:LYS:CE	1:F:467:PHE:O	2.65	0.43
1:E:524:LYS:HG2	1:Q:161:GLN:HB3	2.00	0.43
1:G:121:LYS:HD2	1:G:121:LYS:HA	1.79	0.43
1:G:524:LYS:HG2	1:I:161:GLN:HB3	2.00	0.43
1:H:120:PRO:HG3	1:H:516:TRP:CZ3	2.53	0.43
1:J:147:ASP:OD2	1:J:504:LEU:HD22	2.18	0.43
1:Q:547:ALA:HA	1:S:75:LYS:HB3	1.99	0.43
1:S:533:ASP:OD1	1:T:530:SER:HA	2.18	0.43
1:V:101:SER:HB2	1:V:174:MET:HB3	1.98	0.43
1:W:54:ARG:NH1	1:W:515:GLU:OE2	2.48	0.43
1:W:530:SER:HA	1:X:533:ASP:OD1	2.18	0.43
1:X:101:SER:HB2	1:X:174:MET:HB3	1.98	0.43
1:Y:523:THR:HG21	1:Z:106:GLN:HE22	1.83	0.43
1:Y:533:ASP:OD1	1:Z:530:SER:HA	2.18	0.43
1:d:405:PHE:HB2	1:l:324:THR:HG23	1.99	0.43
1:d:487:VAL:HG22	1:d:506:VAL:HG23	1.99	0.43
1:f:120:PRO:HG3	1:f:516:TRP:CZ3	2.53	0.43
1:f:467:PHE:O	1:h:463:LYS:CE	2.66	0.43
1:h:120:PRO:HG3	1:h:516:TRP:CZ3	2.53	0.43
1:h:523:THR:HG21	1:k:106:GLN:HE22	1.83	0.43
1:i:463:LYS:CE	1:k:467:PHE:O	2.66	0.43
1:k:147:ASP:OD2	1:k:504:LEU:HD22	2.18	0.43
1:o:101:SER:HB2	1:o:174:MET:HB3	1.98	0.43
1:o:334:ALA:O	1:o:348:GLN:NE2	2.38	0.43
1:p:147:ASP:OD2	1:p:504:LEU:HD22	2.18	0.43
1:q:533:ASP:OD1	1:x:530:SER:HA	2.18	0.43
1:t:524:LYS:HG2	1:u:161:GLN:HB3	2.00	0.43
1:u:106:GLN:HE22	1:l:523:THR:HG21	1.83	0.43
1:u:147:ASP:OD2	1:u:504:LEU:HD22	2.18	0.43
1:u:530:SER:HA	1:l:533:ASP:OD1	2.18	0.43
1:x:524:LYS:HG2	1:y:161:GLN:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:273:ALA:HB1	1:z:284:PHE:HB3	1.99	0.43
1:3:161:GLN:HB3	1:4:524:LYS:HG2	2.00	0.43
1:5:120:PRO:HG3	1:5:516:TRP:CZ3	2.53	0.43
1:5:147:ASP:OD2	1:5:504:LEU:HD22	2.18	0.43
1:5:273:ALA:HB1	1:5:284:PHE:HB3	1.99	0.43
1:7:533:ASP:OD1	1:8:530:SER:HA	2.18	0.43
1:8:392:ARG:HG3	1:8:392:ARG:O	2.18	0.43
1:A:342:GLN:HE22	1:G:410:THR:HG22	1.83	0.43
1:B:533:ASP:OD1	1:I:530:SER:HA	2.18	0.43
1:E:451:ASP:OD1	1:E:451:ASP:N	2.50	0.43
1:F:275:ARG:HH22	1:F:414:ILE:CG1	2.25	0.43
1:G:334:ALA:O	1:G:348:GLN:NE2	2.38	0.43
1:G:533:ASP:OD1	1:H:530:SER:HA	2.18	0.43
1:H:147:ASP:OD2	1:H:504:LEU:HD22	2.18	0.43
1:H:273:ALA:HB1	1:H:284:PHE:HB3	1.99	0.43
1:H:467:PHE:O	1:W:463:LYS:CE	2.66	0.43
1:J:544:THR:HG1	1:K:527:ARG:HH11	1.63	0.43
1:K:524:LYS:HG2	1:a:161:GLN:HB3	2.00	0.43
1:N:120:PRO:HG3	1:N:516:TRP:CZ3	2.53	0.43
1:N:392:ARG:HG3	1:N:392:ARG:O	2.18	0.43
1:S:105:PRO:HB2	1:T:528:PRO:HD3	2.00	0.43
1:V:147:ASP:OD2	1:V:504:LEU:HD22	2.18	0.43
1:V:342:GLN:HE22	1:e:410:THR:HG22	1.83	0.43
1:V:467:PHE:O	1:e:463:LYS:CE	2.66	0.43
1:Z:334:ALA:O	1:Z:348:GLN:NE2	2.38	0.43
1:Z:392:ARG:HG3	1:Z:392:ARG:O	2.18	0.43
1:a:467:PHE:O	1:8:463:LYS:CE	2.65	0.43
1:a:487:VAL:HG22	1:a:506:VAL:HG23	1.99	0.43
1:c:463:LYS:CE	1:p:467:PHE:O	2.66	0.43
1:d:105:PRO:HB2	1:n:528:PRO:HD3	2.00	0.43
1:e:105:PRO:HB2	1:f:528:PRO:HD3	2.00	0.43
1:e:121:LYS:HA	1:e:121:LYS:HD2	1.79	0.43
1:h:528:PRO:HD3	1:k:105:PRO:HB2	2.00	0.43
1:i:120:PRO:HG3	1:i:516:TRP:CZ3	2.53	0.43
1:i:273:ALA:HB1	1:i:284:PHE:HB3	1.99	0.43
1:j:275:ARG:HH22	1:j:414:ILE:CG1	2.25	0.43
1:n:487:VAL:HG22	1:n:506:VAL:HG23	1.99	0.43
1:q:105:PRO:HB2	1:x:528:PRO:HD3	2.00	0.43
1:s:487:VAL:HG22	1:s:506:VAL:HG23	1.99	0.43
1:t:334:ALA:O	1:t:348:GLN:NE2	2.38	0.43
1:t:410:THR:HG22	1:v:342:GLN:HE22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:405:PHE:HB2	1:x:324:THR:HG23	2.00	0.43
1:w:463:LYS:CE	1:y:467:PHE:O	2.66	0.43
1:w:467:PHE:O	1:x:463:LYS:CE	2.66	0.43
1:w:524:LYS:HG2	1:x:161:GLN:HB3	2.00	0.43
1:z:198:ASP:OD1	1:z:199:THR:N	2.51	0.43
1:1:467:PHE:O	1:2:463:LYS:CE	2.66	0.43
1:3:273:ALA:HB1	1:3:284:PHE:HB3	1.99	0.43
1:5:467:PHE:O	1:6:463:LYS:CE	2.66	0.43
1:7:523:THR:HG21	1:8:106:GLN:HE22	1.83	0.43
1:B:120:PRO:HG3	1:B:516:TRP:CZ3	2.53	0.43
1:B:467:PHE:O	1:J:463:LYS:CE	2.66	0.43
1:D:342:GLN:HE22	1:N:410:THR:HG22	1.82	0.43
1:D:523:THR:HG21	1:M:106:GLN:HE22	1.83	0.43
1:E:121:LYS:HD2	1:E:121:LYS:HA	1.79	0.43
1:E:467:PHE:O	1:Q:463:LYS:CE	2.66	0.43
1:F:120:PRO:HG3	1:F:516:TRP:CZ3	2.53	0.43
1:F:463:LYS:CE	1:Q:467:PHE:O	2.65	0.43
1:G:405:PHE:HB2	1:I:324:THR:HG23	1.99	0.43
1:G:530:SER:HA	1:H:533:ASP:OD1	2.18	0.43
1:L:198:ASP:OD1	1:L:199:THR:N	2.51	0.43
1:M:324:THR:HG23	1:b:405:PHE:HB2	2.00	0.43
1:N:105:PRO:HB2	1:O:528:PRO:HD3	2.00	0.43
1:O:324:THR:HG23	1:n:405:PHE:HB2	1.99	0.43
1:P:147:ASP:OD2	1:P:504:LEU:HD22	2.18	0.43
1:R:487:VAL:HG22	1:R:506:VAL:HG23	1.99	0.43
1:S:120:PRO:HG3	1:S:516:TRP:CZ3	2.53	0.43
1:S:405:PHE:HB2	1:U:324:THR:HG23	2.00	0.43
1:T:311:GLN:O	1:T:312:SER:OG	2.25	0.43
1:U:147:ASP:OD2	1:U:504:LEU:HD22	2.18	0.43
1:U:487:VAL:HG22	1:U:506:VAL:HG23	1.99	0.43
1:U:530:SER:HA	1:V:533:ASP:OD1	2.18	0.43
1:Z:120:PRO:HG3	1:Z:516:TRP:CZ3	2.53	0.43
1:Z:324:THR:HG23	1:3:405:PHE:HB2	1.99	0.43
1:Z:463:LYS:CE	1:3:467:PHE:O	2.65	0.43
1:a:106:GLN:HE22	1:3:523:THR:HG21	1.83	0.43
1:a:147:ASP:OD2	1:a:504:LEU:HD22	2.18	0.43
1:a:160:HIS:HD2	1:a:478:HIS:HD2	1.65	0.43
1:a:273:ALA:HB1	1:a:284:PHE:HB3	1.99	0.43
1:a:342:GLN:HE22	1:8:410:THR:HG22	1.83	0.43
1:d:528:PRO:HD3	1:n:105:PRO:HB2	2.00	0.43
1:f:405:PHE:HB2	1:h:324:THR:HG23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:418:ASN:O	1:f:419:THR:OG1	2.33	0.43
1:g:198:ASP:OD1	1:g:199:THR:N	2.52	0.43
1:g:215:ILE:HD13	1:h:398:MET:HE1	2.01	0.43
1:h:106:GLN:HE22	1:k:523:THR:HG21	1.83	0.43
1:i:105:PRO:HB2	1:l:528:PRO:HD3	2.00	0.43
1:i:392:ARG:HG3	1:i:392:ARG:O	2.18	0.43
1:i:410:THR:HG22	1:k:342:GLN:HE22	1.82	0.43
1:l:487:VAL:HG22	1:l:506:VAL:HG23	1.99	0.43
1:m:528:PRO:HD3	1:r:105:PRO:HB2	2.00	0.43
1:n:148:LEU:O	1:n:149:THR:OG1	2.28	0.43
1:p:533:ASP:OD1	1:s:530:SER:HA	2.18	0.43
1:q:106:GLN:HE22	1:x:523:THR:HG21	1.83	0.43
1:r:405:PHE:HB2	1:s:324:THR:HG23	2.00	0.43
1:r:444:ASP:OD2	1:r:569:LYS:NZ	2.47	0.43
1:r:487:VAL:HG22	1:r:506:VAL:HG23	1.99	0.43
1:t:533:ASP:OD1	1:5:530:SER:HA	2.18	0.43
1:x:467:PHE:O	1:y:463:LYS:CE	2.65	0.43
1:y:120:PRO:HG3	1:y:516:TRP:CZ3	2.53	0.43
1:y:392:ARG:HG3	1:y:392:ARG:O	2.18	0.43
1:1:120:PRO:HG3	1:1:516:TRP:CZ3	2.53	0.43
1:3:147:ASP:OD2	1:3:504:LEU:HD22	2.18	0.43
1:3:160:HIS:HD2	1:3:478:HIS:HD2	1.65	0.43
1:6:487:VAL:HG22	1:6:506:VAL:HG23	1.99	0.43
1:6:524:LYS:HG2	1:7:161:GLN:HB3	2.00	0.43
1:A:198:ASP:OD1	1:A:199:THR:N	2.52	0.43
1:B:75:LYS:HB3	1:C:547:ALA:HA	1.98	0.43
1:C:198:ASP:OD1	1:C:199:THR:N	2.52	0.43
1:C:405:PHE:HB2	1:b:324:THR:HG23	2.00	0.43
1:D:161:GLN:HB3	1:P:524:LYS:HG2	2.00	0.43
1:G:105:PRO:HB2	1:H:528:PRO:HD3	2.00	0.43
1:G:467:PHE:O	1:I:463:LYS:CE	2.66	0.43
1:J:533:ASP:OD1	1:K:530:SER:HA	2.18	0.43
1:K:147:ASP:OD2	1:K:504:LEU:HD22	2.18	0.43
1:K:467:PHE:O	1:a:463:LYS:CE	2.66	0.43
1:M:147:ASP:OD2	1:M:504:LEU:HD22	2.18	0.43
1:N:92:GLY:O	1:N:485:VAL:N	2.38	0.43
1:N:198:ASP:OD1	1:N:199:THR:N	2.52	0.43
1:N:273:ALA:HB1	1:N:284:PHE:HB3	1.99	0.43
1:N:487:VAL:HG22	1:N:506:VAL:HG23	1.99	0.43
1:O:392:ARG:O	1:O:392:ARG:HG3	2.18	0.43
1:O:467:PHE:O	1:m:463:LYS:CE	2.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:487:VAL:HG22	1:O:506:VAL:HG23	1.99	0.43
1:P:275:ARG:HH22	1:P:414:ILE:CG1	2.25	0.43
1:Q:528:PRO:HD3	1:R:105:PRO:HB2	2.00	0.43
1:S:81:ASN:HB2	1:S:355:TRP:CZ3	2.54	0.43
1:T:160:HIS:HD2	1:T:478:HIS:HD2	1.65	0.43
1:V:407:GLN:HB3	1:V:429:MET:HG2	2.01	0.43
1:W:147:ASP:OD2	1:W:504:LEU:HD22	2.18	0.43
1:W:487:VAL:HG22	1:W:506:VAL:HG23	1.99	0.43
1:W:523:THR:HG21	1:X:106:GLN:HE22	1.83	0.43
1:W:524:LYS:HG2	1:Y:161:GLN:HB3	2.00	0.43
1:Z:161:GLN:HB3	1:3:524:LYS:HG2	2.00	0.43
1:Z:410:THR:HG22	1:3:342:GLN:HE22	1.83	0.43
1:a:524:LYS:HG2	1:8:161:GLN:HB3	2.00	0.43
1:c:410:THR:HG22	1:p:342:GLN:HE22	1.83	0.43
1:j:106:GLN:HE22	1:w:523:THR:HG21	1.83	0.43
1:j:147:ASP:OD2	1:j:504:LEU:HD22	2.18	0.43
1:k:444:ASP:OD2	1:k:569:LYS:NZ	2.47	0.43
1:l:392:ARG:HG3	1:l:392:ARG:O	2.18	0.43
1:m:106:GLN:HE22	1:r:523:THR:HG21	1.83	0.43
1:m:160:HIS:HD2	1:m:478:HIS:HD2	1.65	0.43
1:o:106:GLN:HE22	1:6:523:THR:HG21	1.83	0.43
1:p:407:GLN:HB3	1:p:429:MET:HG2	2.01	0.43
1:q:410:THR:HG22	1:s:342:GLN:HE22	1.82	0.43
1:q:487:VAL:HG22	1:q:506:VAL:HG23	2.00	0.43
1:r:81:ASN:HB2	1:r:355:TRP:CZ3	2.54	0.43
1:r:120:PRO:HG3	1:r:516:TRP:CZ3	2.53	0.43
1:s:147:ASP:OD2	1:s:504:LEU:HD22	2.18	0.43
1:t:105:PRO:HB2	1:5:528:PRO:HD3	2.00	0.43
1:t:530:SER:HA	1:5:533:ASP:OD1	2.18	0.43
1:1:198:ASP:OD1	1:1:199:THR:N	2.51	0.43
1:2:379:SER:OG	1:2:451:ASP:OD2	2.26	0.43
1:2:533:ASP:OD1	1:4:530:SER:HA	2.18	0.43
1:2:547:ALA:HA	1:3:75:LYS:HB3	1.99	0.43
1:3:487:VAL:HG22	1:3:506:VAL:HG23	1.99	0.43
1:8:147:ASP:OD2	1:8:504:LEU:HD22	2.18	0.43
1:B:81:ASN:HB2	1:B:355:TRP:CZ3	2.54	0.43
1:B:198:ASP:OD1	1:B:199:THR:N	2.51	0.43
1:B:524:LYS:HG2	1:J:161:GLN:HB3	2.00	0.43
1:C:410:THR:HG22	1:M:342:GLN:HE22	1.83	0.43
1:D:105:PRO:HB2	1:M:528:PRO:HD3	2.00	0.43
1:F:81:ASN:HB2	1:F:355:TRP:CZ3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:161:GLN:HB3	1:Q:524:LYS:HG2	2.01	0.43
1:F:392:ARG:HG3	1:F:392:ARG:O	2.18	0.43
1:J:528:PRO:HD3	1:K:105:PRO:HB2	2.00	0.43
1:J:547:ALA:HA	1:a:75:LYS:HB3	1.99	0.43
1:K:379:SER:OG	1:K:451:ASP:OD2	2.26	0.43
1:M:444:ASP:OD2	1:M:569:LYS:NZ	2.47	0.43
1:P:120:PRO:HG3	1:P:516:TRP:CZ3	2.53	0.43
1:R:410:THR:HG22	1:U:342:GLN:HE22	1.82	0.43
1:S:444:ASP:OD2	1:S:569:LYS:NZ	2.47	0.43
1:S:487:VAL:HG22	1:S:506:VAL:HG23	2.00	0.43
1:S:524:LYS:HG2	1:U:161:GLN:HB3	2.00	0.43
1:T:81:ASN:HB2	1:T:355:TRP:CZ3	2.54	0.43
1:T:463:LYS:CE	1:l:467:PHE:O	2.66	0.43
1:W:528:PRO:HD3	1:X:105:PRO:HB2	2.00	0.43
1:Y:105:PRO:HB2	1:Z:528:PRO:HD3	2.00	0.43
1:Y:531:LYS:HD2	1:Y:531:LYS:HA	1.76	0.43
1:Z:407:GLN:HB3	1:Z:429:MET:HG2	2.01	0.43
1:Z:487:VAL:HG22	1:Z:506:VAL:HG23	1.99	0.43
1:a:405:PHE:HB2	1:8:324:THR:HG23	1.99	0.43
1:a:523:THR:HG21	1:3:106:GLN:HE22	1.83	0.43
1:c:121:LYS:HA	1:c:121:LYS:HD2	1.79	0.43
1:c:324:THR:HG23	1:p:405:PHE:HB2	2.00	0.43
1:c:467:PHE:O	1:o:463:LYS:CE	2.65	0.43
1:f:531:LYS:HA	1:f:531:LYS:HD2	1.76	0.43
1:g:75:LYS:HB3	1:k:547:ALA:HA	1.99	0.43
1:g:106:GLN:HE22	1:z:523:THR:HG21	1.82	0.43
1:h:147:ASP:OD2	1:h:504:LEU:HD22	2.18	0.43
1:h:444:ASP:OD2	1:h:569:LYS:NZ	2.47	0.43
1:i:198:ASP:OD1	1:i:199:THR:N	2.52	0.43
1:i:530:SER:HA	1:l:533:ASP:OD1	2.18	0.43
1:j:405:PHE:HB2	1:k:324:THR:HG23	1.99	0.43
1:l:120:PRO:HG3	1:l:516:TRP:CZ3	2.53	0.43
1:n:81:ASN:HB2	1:n:355:TRP:CZ3	2.54	0.43
1:p:392:ARG:HG3	1:p:392:ARG:O	2.18	0.43
1:p:487:VAL:HG22	1:p:506:VAL:HG23	1.99	0.43
1:q:523:THR:HG21	1:x:106:GLN:HE22	1.83	0.43
1:r:198:ASP:OD1	1:r:199:THR:N	2.51	0.43
1:r:524:LYS:HG2	1:s:161:GLN:HB3	2.00	0.43
1:t:405:PHE:HB2	1:u:324:THR:HG23	1.99	0.43
1:u:81:ASN:HB2	1:u:355:TRP:CZ3	2.54	0.43
1:v:198:ASP:OD1	1:v:199:THR:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:81:ASN:HB2	1:y:355:TRP:CZ3	2.54	0.43
1:y:275:ARG:HH22	1:y:414:ILE:CG1	2.25	0.43
1:y:334:ALA:O	1:y:348:GLN:NE2	2.38	0.43
1:z:161:GLN:HB3	1:2:524:LYS:HG2	2.00	0.43
1:z:334:ALA:O	1:z:348:GLN:NE2	2.38	0.43
1:1:81:ASN:HB2	1:1:355:TRP:CZ3	2.54	0.43
1:2:160:HIS:HD2	1:2:478:HIS:HD2	1.65	0.43
1:3:463:LYS:CE	1:4:467:PHE:O	2.66	0.43
1:4:147:ASP:OD2	1:4:504:LEU:HD22	2.18	0.43
1:4:198:ASP:OD1	1:4:199:THR:N	2.52	0.43
1:5:531:LYS:HA	1:5:531:LYS:HD2	1.76	0.43
1:6:120:PRO:HG3	1:6:516:TRP:CZ3	2.53	0.43
1:7:105:PRO:HB2	1:8:528:PRO:HD3	2.00	0.43
1:8:120:PRO:HG3	1:8:516:TRP:CZ3	2.53	0.43
1:8:160:HIS:HD2	1:8:478:HIS:HD2	1.65	0.43
1:A:105:PRO:HB2	1:F:528:PRO:HD3	2.00	0.43
1:B:342:GLN:HE22	1:J:410:THR:HG22	1.82	0.43
1:D:324:THR:HG23	1:P:405:PHE:HB2	1.99	0.43
1:D:487:VAL:HG22	1:D:506:VAL:HG23	1.99	0.43
1:E:523:THR:HG21	1:P:106:GLN:HE22	1.83	0.43
1:E:530:SER:HA	1:P:533:ASP:OD1	2.18	0.43
1:E:533:ASP:OD1	1:P:530:SER:HA	2.18	0.43
1:F:147:ASP:OD2	1:F:504:LEU:HD22	2.18	0.43
1:H:405:PHE:HB2	1:W:324:THR:HG23	1.99	0.43
1:H:410:THR:HG22	1:Y:342:GLN:HE22	1.83	0.43
1:I:81:ASN:HB2	1:I:355:TRP:CZ3	2.54	0.43
1:J:160:HIS:HD2	1:J:478:HIS:HD2	1.65	0.43
1:J:524:LYS:HG2	1:L:161:GLN:HB3	2.00	0.43
1:K:198:ASP:OD1	1:K:199:THR:N	2.52	0.43
1:N:528:PRO:HD3	1:O:105:PRO:HB2	2.00	0.43
1:O:120:PRO:HG3	1:O:516:TRP:CZ3	2.53	0.43
1:R:531:LYS:HA	1:R:531:LYS:HD2	1.76	0.43
1:S:198:ASP:OD1	1:S:199:THR:N	2.51	0.43
1:S:392:ARG:HG3	1:S:392:ARG:O	2.18	0.43
1:S:523:THR:HG21	1:T:106:GLN:HE22	1.83	0.43
1:V:81:ASN:HB2	1:V:355:TRP:CZ3	2.54	0.43
1:V:392:ARG:HG3	1:V:392:ARG:O	2.18	0.43
1:V:531:LYS:HA	1:V:531:LYS:HD2	1.76	0.43
1:X:81:ASN:HB2	1:X:355:TRP:CZ3	2.54	0.43
1:Y:81:ASN:HB2	1:Y:355:TRP:CZ3	2.54	0.43
1:Z:147:ASP:OD2	1:Z:504:LEU:HD22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:160:HIS:HD2	1:Z:478:HIS:HD2	1.65	0.43
1:a:407:GLN:HB3	1:a:429:MET:HG2	2.01	0.43
1:b:418:ASN:O	1:b:419:THR:OG1	2.33	0.43
1:d:81:ASN:HB2	1:d:355:TRP:CZ3	2.54	0.43
1:d:443:TRP:NE1	1:d:468:ASP:OD2	2.24	0.43
1:f:147:ASP:OD2	1:f:504:LEU:HD22	2.18	0.43
1:i:487:VAL:HG22	1:i:506:VAL:HG23	1.99	0.43
1:j:120:PRO:HG3	1:j:516:TRP:CZ3	2.53	0.43
1:j:524:LYS:HG2	1:k:161:GLN:HB3	2.00	0.43
1:j:530:SER:HA	1:w:533:ASP:OD1	2.18	0.43
1:l:276:ASN:OD1	1:l:276:ASN:N	2.45	0.43
1:m:81:ASN:HB2	1:m:355:TRP:CZ3	2.54	0.43
1:o:81:ASN:HB2	1:o:355:TRP:CZ3	2.54	0.43
1:o:105:PRO:HB2	1:6:528:PRO:HD3	2.00	0.43
1:p:81:ASN:HB2	1:p:355:TRP:CZ3	2.54	0.43
1:p:531:LYS:HA	1:p:531:LYS:HD2	1.76	0.43
1:t:148:LEU:O	1:t:149:THR:OG1	2.28	0.43
1:t:467:PHE:O	1:u:463:LYS:CE	2.66	0.43
1:u:198:ASP:OD1	1:u:199:THR:N	2.51	0.43
1:w:392:ARG:O	1:w:392:ARG:HG3	2.18	0.43
1:x:342:GLN:HE22	1:y:410:THR:HG22	1.83	0.43
1:y:147:ASP:OD2	1:y:504:LEU:HD22	2.18	0.43
1:z:524:LYS:HG2	1:1:161:GLN:HB3	2.00	0.43
1:2:528:PRO:HD3	1:4:105:PRO:HB2	2.00	0.43
1:2:530:SER:HA	1:4:533:ASP:OD1	2.18	0.43
1:5:405:PHE:HB2	1:6:324:THR:HG23	1.99	0.43
1:6:147:ASP:OD2	1:6:504:LEU:HD22	2.18	0.43
1:6:148:LEU:O	1:6:149:THR:OG1	2.28	0.43
1:7:81:ASN:HB2	1:7:355:TRP:CZ3	2.54	0.43
1:8:334:ALA:O	1:8:348:GLN:NE2	2.38	0.43
1:8:407:GLN:HB3	1:8:429:MET:HG2	2.01	0.43
1:8:487:VAL:HG22	1:8:506:VAL:HG23	1.99	0.43
1:A:81:ASN:HB2	1:A:355:TRP:CZ3	2.54	0.43
1:A:407:GLN:NE2	1:G:321:GLY:H	2.11	0.43
1:B:161:GLN:HB3	1:L:524:LYS:HG2	2.00	0.43
1:C:379:SER:OG	1:C:451:ASP:OD2	2.26	0.43
1:C:524:LYS:HG2	1:b:161:GLN:HB3	2.00	0.43
1:E:324:THR:HG23	1:F:405:PHE:HB2	1.99	0.43
1:G:528:PRO:HD3	1:H:105:PRO:HB2	2.00	0.43
1:I:198:ASP:OD1	1:I:199:THR:N	2.51	0.43
1:M:161:GLN:HB3	1:b:524:LYS:HG2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:530:SER:HA	1:O:533:ASP:OD1	2.18	0.43
1:O:198:ASP:OD1	1:O:199:THR:N	2.52	0.43
1:O:276:ASN:OD1	1:O:276:ASN:N	2.45	0.43
1:Q:106:GLN:HE22	1:R:523:THR:HG21	1.83	0.43
1:R:198:ASP:OD1	1:R:199:THR:N	2.51	0.43
1:V:405:PHE:HB2	1:e:324:THR:HG23	2.00	0.43
1:V:487:VAL:HG22	1:V:506:VAL:HG23	1.99	0.43
1:W:120:PRO:HG3	1:W:516:TRP:CZ3	2.53	0.43
1:X:392:ARG:HG3	1:X:392:ARG:O	2.18	0.43
1:X:463:LYS:CE	1:e:467:PHE:O	2.65	0.43
1:Y:392:ARG:HG3	1:Y:392:ARG:O	2.18	0.43
1:a:334:ALA:O	1:a:348:GLN:NE2	2.38	0.43
1:b:531:LYS:HA	1:b:531:LYS:HD2	1.76	0.43
1:f:81:ASN:HB2	1:f:355:TRP:CZ3	2.54	0.43
1:f:407:GLN:HB3	1:f:429:MET:HG2	2.01	0.43
1:i:59:ASN:HD22	1:i:102:HIS:HA	1.84	0.43
1:l:198:ASP:OD1	1:l:199:THR:N	2.52	0.43
1:n:198:ASP:OD1	1:n:199:THR:N	2.52	0.43
1:n:443:TRP:NE1	1:n:468:ASP:OD2	2.24	0.43
1:o:405:PHE:HB2	1:p:324:THR:HG23	2.00	0.43
1:o:407:GLN:HB3	1:o:429:MET:HG2	2.01	0.43
1:q:198:ASP:OD1	1:q:199:THR:N	2.51	0.43
1:q:392:ARG:HG3	1:q:392:ARG:O	2.18	0.43
1:r:392:ARG:O	1:r:392:ARG:HG3	2.18	0.43
1:t:81:ASN:HB2	1:t:355:TRP:CZ3	2.54	0.43
1:t:121:LYS:HD2	1:t:121:LYS:HA	1.79	0.43
1:t:528:PRO:HD3	1:5:105:PRO:HB2	2.00	0.43
1:v:81:ASN:HB2	1:v:355:TRP:CZ3	2.54	0.43
1:v:105:PRO:HB2	1:y:528:PRO:HD3	2.00	0.43
1:v:106:GLN:HE22	1:y:523:THR:HG21	1.83	0.43
1:x:407:GLN:HB3	1:x:429:MET:HG2	2.01	0.43
1:3:407:GLN:HB3	1:3:429:MET:HG2	2.01	0.43
1:6:407:GLN:HB3	1:6:429:MET:HG2	2.01	0.43
1:7:106:GLN:HE22	1:8:523:THR:HG21	1.83	0.43
1:7:392:ARG:HG3	1:7:392:ARG:O	2.18	0.43
1:8:121:LYS:HA	1:8:121:LYS:HD2	1.79	0.43
1:B:106:GLN:HE22	1:I:523:THR:HG21	1.83	0.43
1:B:147:ASP:OD2	1:B:504:LEU:HD22	2.18	0.43
1:E:392:ARG:HG3	1:E:392:ARG:O	2.18	0.43
1:G:81:ASN:HB2	1:G:355:TRP:CZ3	2.54	0.43
1:G:523:THR:HG21	1:H:106:GLN:HE22	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:126:LYS:HG2	1:J:128:TYR:HD2	1.84	0.43
1:J:530:SER:HA	1:K:533:ASP:OD1	2.18	0.43
1:L:407:GLN:HB3	1:L:429:MET:HG2	2.01	0.43
1:M:59:ASN:HD22	1:M:102:HIS:HA	1.84	0.43
1:N:59:ASN:HD22	1:N:102:HIS:HA	1.84	0.43
1:N:407:GLN:HB3	1:N:429:MET:HG2	2.01	0.43
1:O:160:HIS:HD2	1:O:478:HIS:HD2	1.65	0.43
1:Q:407:GLN:HB3	1:Q:429:MET:HG2	2.01	0.43
1:S:160:HIS:HD2	1:S:478:HIS:HD2	1.65	0.43
1:V:126:LYS:HG2	1:V:128:TYR:HD2	1.84	0.43
1:W:148:LEU:O	1:W:149:THR:OG1	2.28	0.43
1:X:407:GLN:HB3	1:X:429:MET:HG2	2.01	0.43
1:Y:400:ARG:NH1	1:Y:444:ASP:O	2.46	0.43
1:a:258:LEU:HA	1:a:258:LEU:HD13	1.89	0.43
1:b:81:ASN:HB2	1:b:355:TRP:CZ3	2.54	0.43
1:b:147:ASP:OD2	1:b:504:LEU:HD22	2.18	0.43
1:b:407:GLN:HB3	1:b:429:MET:HG2	2.01	0.43
1:d:148:LEU:O	1:d:149:THR:OG1	2.28	0.43
1:d:198:ASP:OD1	1:d:199:THR:N	2.52	0.43
1:f:524:LYS:HG2	1:h:161:GLN:HB3	2.00	0.43
1:h:59:ASN:HD22	1:h:102:HIS:HA	1.84	0.43
1:i:407:GLN:HB3	1:i:429:MET:HG2	2.01	0.43
1:i:528:PRO:HD3	1:l:105:PRO:HB2	2.00	0.43
1:j:533:ASP:OD1	1:w:530:SER:HA	2.18	0.43
1:l:160:HIS:HD2	1:l:478:HIS:HD2	1.65	0.43
1:p:126:LYS:HG2	1:p:128:TYR:HD2	1.84	0.43
1:r:160:HIS:HD2	1:r:478:HIS:HD2	1.65	0.43
1:r:531:LYS:HA	1:r:531:LYS:HD2	1.76	0.43
1:s:198:ASP:OD1	1:s:199:THR:N	2.51	0.43
1:t:321:GLY:H	1:v:407:GLN:NE2	2.11	0.43
1:v:160:HIS:HD2	1:v:478:HIS:HD2	1.65	0.43
1:w:126:LYS:HG2	1:w:128:TYR:HD2	1.84	0.43
1:w:324:THR:HG23	1:y:405:PHE:HB2	2.00	0.43
1:z:324:THR:HG23	1:2:405:PHE:HB2	2.00	0.43
1:z:407:GLN:HB3	1:z:429:MET:HG2	2.01	0.43
1:1:147:ASP:OD2	1:1:504:LEU:HD22	2.18	0.43
1:1:342:GLN:HE22	1:2:410:THR:HG22	1.82	0.43
1:1:405:PHE:HB2	1:2:324:THR:HG23	1.99	0.43
1:1:524:LYS:HG2	1:2:161:GLN:HB3	2.00	0.43
1:2:126:LYS:HG2	1:2:128:TYR:HD2	1.84	0.43
1:3:324:THR:HG23	1:4:405:PHE:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:81:ASN:HB2	1:5:355:TRP:CZ3	2.54	0.43
1:5:126:LYS:HG2	1:5:128:TYR:HD2	1.84	0.43
1:5:321:GLY:H	1:7:407:GLN:NE2	2.11	0.43
1:5:410:THR:HG22	1:7:342:GLN:HE22	1.83	0.43
1:8:148:LEU:O	1:8:149:THR:OG1	2.28	0.43
1:A:106:GLN:HE22	1:F:523:THR:HG21	1.83	0.43
1:A:160:HIS:HD2	1:A:478:HIS:HD2	1.65	0.43
1:B:126:LYS:HG2	1:B:128:TYR:HD2	1.84	0.43
1:F:258:LEU:HA	1:F:258:LEU:HD13	1.89	0.43
1:G:275:ARG:HH22	1:G:414:ILE:CG1	2.25	0.43
1:H:81:ASN:HB2	1:H:355:TRP:CZ3	2.54	0.43
1:H:126:LYS:HG2	1:H:128:TYR:HD2	1.84	0.43
1:H:198:ASP:OD1	1:H:199:THR:N	2.52	0.43
1:J:379:SER:OG	1:J:451:ASP:OD2	2.26	0.43
1:K:405:PHE:HB2	1:a:324:THR:HG23	2.00	0.43
1:L:334:ALA:O	1:L:348:GLN:NE2	2.38	0.43
1:L:392:ARG:O	1:L:392:ARG:HG3	2.18	0.43
1:M:469:SER:HA	1:b:440:ASN:ND2	2.34	0.43
1:R:392:ARG:HG3	1:R:392:ARG:O	2.18	0.43
1:R:400:ARG:NH1	1:R:444:ASP:O	2.46	0.43
1:S:531:LYS:HA	1:S:531:LYS:HD2	1.76	0.43
1:T:120:PRO:HG3	1:T:516:TRP:CZ3	2.53	0.43
1:T:121:LYS:HA	1:T:121:LYS:HD2	1.79	0.43
1:T:161:GLN:HB3	1:l:524:LYS:HG2	2.00	0.43
1:T:392:ARG:O	1:T:392:ARG:HG3	2.18	0.43
1:U:126:LYS:HG2	1:U:128:TYR:HD2	1.84	0.43
1:V:198:ASP:OD1	1:V:199:THR:N	2.52	0.43
1:V:324:THR:HG23	1:X:405:PHE:HB2	2.00	0.43
1:W:198:ASP:OD1	1:W:199:THR:N	2.52	0.43
1:W:407:GLN:HB3	1:W:429:MET:HG2	2.01	0.43
1:X:126:LYS:HG2	1:X:128:TYR:HD2	1.84	0.43
1:Y:106:GLN:HE22	1:Z:523:THR:HG21	1.83	0.43
1:Y:126:LYS:HG2	1:Y:128:TYR:HD2	1.84	0.43
1:a:126:LYS:HG2	1:a:128:TYR:HD2	1.84	0.43
1:f:444:ASP:OD2	1:f:569:LYS:NZ	2.47	0.43
1:h:407:GLN:HB3	1:h:429:MET:HG2	2.01	0.43
1:i:92:GLY:O	1:i:485:VAL:N	2.38	0.43
1:j:59:ASN:HD22	1:j:102:HIS:HA	1.84	0.43
1:j:528:PRO:HD3	1:w:105:PRO:HB2	2.00	0.43
1:k:54:ARG:NH1	1:k:515:GLU:OE2	2.48	0.43
1:o:392:ARG:O	1:o:392:ARG:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:106:GLN:HE22	1:s:523:THR:HG21	1.83	0.43
1:p:198:ASP:OD1	1:p:199:THR:N	2.52	0.43
1:r:467:PHE:O	1:s:463:LYS:CE	2.66	0.43
1:u:523:THR:HG21	1:1:106:GLN:HE22	1.83	0.43
1:x:64:TYR:CE1	1:x:183:LEU:HD13	2.54	0.43
1:z:444:ASP:OD2	1:z:569:LYS:NZ	2.47	0.43
1:2:444:ASP:OD2	1:2:569:LYS:NZ	2.47	0.43
1:3:126:LYS:HG2	1:3:128:TYR:HD2	1.84	0.43
1:4:379:SER:OG	1:4:451:ASP:OD2	2.26	0.43
1:5:198:ASP:OD1	1:5:199:THR:N	2.52	0.43
1:5:275:ARG:HH22	1:5:414:ILE:CG1	2.25	0.43
1:6:198:ASP:OD1	1:6:199:THR:N	2.52	0.43
1:7:126:LYS:HG2	1:7:128:TYR:HD2	1.84	0.43
1:7:147:ASP:OD2	1:7:504:LEU:HD22	2.18	0.43
1:B:405:PHE:HB2	1:J:324:THR:HG23	2.00	0.43
1:B:410:THR:HG22	1:L:342:GLN:HE22	1.82	0.43
1:E:126:LYS:HG2	1:E:128:TYR:HD2	1.84	0.43
1:F:410:THR:HG22	1:Q:342:GLN:HE22	1.83	0.43
1:G:148:LEU:O	1:G:149:THR:OG1	2.28	0.43
1:G:198:ASP:OD1	1:G:199:THR:N	2.52	0.43
1:H:275:ARG:HH22	1:H:414:ILE:CG1	2.25	0.43
1:I:407:GLN:HB3	1:I:429:MET:HG2	2.01	0.43
1:J:81:ASN:HB2	1:J:355:TRP:CZ3	2.54	0.43
1:J:105:PRO:HB2	1:K:528:PRO:HD3	2.00	0.43
1:K:531:LYS:HD2	1:K:531:LYS:HA	1.76	0.43
1:N:126:LYS:HG2	1:N:128:TYR:HD2	1.84	0.43
1:O:524:LYS:HG2	1:m:161:GLN:HB3	2.00	0.43
1:P:59:ASN:HD22	1:P:102:HIS:HA	1.84	0.43
1:P:181:VAL:HG11	1:Q:491:PRO:HG3	2.01	0.43
1:P:198:ASP:OD1	1:P:199:THR:N	2.52	0.43
1:R:161:GLN:HB3	1:U:524:LYS:HG2	2.00	0.43
1:S:440:ASN:ND2	1:U:469:SER:HA	2.34	0.43
1:S:467:PHE:O	1:U:463:LYS:CE	2.66	0.43
1:T:126:LYS:HG2	1:T:128:TYR:HD2	1.84	0.43
1:U:160:HIS:HD2	1:U:478:HIS:HD2	1.65	0.43
1:U:198:ASP:OD1	1:U:199:THR:N	2.51	0.43
1:U:407:GLN:HB3	1:U:429:MET:HG2	2.01	0.43
1:U:523:THR:HG21	1:V:106:GLN:HE22	1.83	0.43
1:W:342:GLN:HE22	1:Y:410:THR:HG22	1.82	0.43
1:b:198:ASP:OD1	1:b:199:THR:N	2.52	0.43
1:d:407:GLN:HB3	1:d:429:MET:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:440:ASN:ND2	1:h:469:SER:HA	2.34	0.43
1:g:181:VAL:HG11	1:l:491:PRO:HG3	2.01	0.43
1:h:105:PRO:HB2	1:k:528:PRO:HD3	2.00	0.43
1:i:81:ASN:HB2	1:i:355:TRP:CZ3	2.54	0.43
1:i:451:ASP:OD1	1:i:451:ASP:N	2.50	0.43
1:j:198:ASP:OD1	1:j:199:THR:N	2.52	0.43
1:k:487:VAL:HG22	1:k:506:VAL:HG23	1.99	0.43
1:m:120:PRO:HG3	1:m:516:TRP:CZ3	2.53	0.43
1:m:126:LYS:HG2	1:m:128:TYR:HD2	1.84	0.43
1:m:392:ARG:HG3	1:m:392:ARG:O	2.18	0.43
1:o:126:LYS:HG2	1:o:128:TYR:HD2	1.84	0.43
1:q:54:ARG:NH1	1:q:515:GLU:OE2	2.48	0.43
1:q:161:GLN:HB3	1:s:524:LYS:HG2	2.00	0.43
1:r:126:LYS:HG2	1:r:128:TYR:HD2	1.84	0.43
1:s:126:LYS:HG2	1:s:128:TYR:HD2	1.84	0.43
1:s:160:HIS:HD2	1:s:478:HIS:HD2	1.65	0.43
1:t:126:LYS:HG2	1:t:128:TYR:HD2	1.84	0.43
1:t:198:ASP:OD1	1:t:199:THR:N	2.52	0.43
1:t:523:THR:HG21	1:5:106:GLN:HE22	1.83	0.43
1:v:392:ARG:HG3	1:v:392:ARG:O	2.18	0.43
1:z:311:GLN:O	1:z:312:SER:OG	2.25	0.43
1:2:81:ASN:HB2	1:2:355:TRP:CZ3	2.54	0.43
1:2:105:PRO:HB2	1:4:528:PRO:HD3	2.00	0.43
1:2:106:GLN:HE22	1:4:523:THR:HG21	1.83	0.43
1:2:120:PRO:HG3	1:2:516:TRP:CZ3	2.53	0.43
1:A:392:ARG:HG3	1:A:392:ARG:O	2.18	0.42
1:B:59:ASN:HD22	1:B:102:HIS:HA	1.84	0.42
1:B:530:SER:HA	1:I:533:ASP:OD1	2.18	0.42
1:C:258:LEU:HA	1:C:258:LEU:HD13	1.89	0.42
1:D:528:PRO:HD3	1:M:105:PRO:HB2	2.00	0.42
1:E:105:PRO:HB2	1:P:528:PRO:HD3	2.00	0.42
1:F:121:LYS:HD2	1:F:121:LYS:HA	1.79	0.42
1:G:64:TYR:CE1	1:G:183:LEU:HD13	2.54	0.42
1:G:126:LYS:HG2	1:G:128:TYR:HD2	1.84	0.42
1:H:161:GLN:HB3	1:Y:524:LYS:HG2	2.00	0.42
1:H:469:SER:HA	1:Y:440:ASN:ND2	2.34	0.42
1:H:524:LYS:HG2	1:W:161:GLN:HB3	2.00	0.42
1:J:64:TYR:CE1	1:J:183:LEU:HD13	2.54	0.42
1:J:405:PHE:HB2	1:L:324:THR:HG23	2.00	0.42
1:J:440:ASN:ND2	1:L:469:SER:HA	2.34	0.42
1:L:81:ASN:HB2	1:L:355:TRP:CZ3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:407:GLN:HB3	1:M:429:MET:HG2	2.01	0.42
1:N:81:ASN:HB2	1:N:355:TRP:CZ3	2.54	0.42
1:N:160:HIS:HD2	1:N:478:HIS:HD2	1.65	0.42
1:P:64:TYR:CE1	1:P:183:LEU:HD13	2.54	0.42
1:Q:64:TYR:CE1	1:Q:183:LEU:HD13	2.54	0.42
1:S:126:LYS:HG2	1:S:128:TYR:HD2	1.84	0.42
1:T:54:ARG:NH1	1:T:515:GLU:OE2	2.48	0.42
1:T:491:PRO:HG3	1:i:181:VAL:HG11	2.01	0.42
1:U:59:ASN:HD22	1:U:102:HIS:HA	1.84	0.42
1:Y:121:LYS:HA	1:Y:121:LYS:HD2	1.79	0.42
1:Y:147:ASP:OD2	1:Y:504:LEU:HD22	2.18	0.42
1:Z:66:PRO:HD2	1:Z:68:TYR:CZ	2.54	0.42
1:c:126:LYS:HG2	1:c:128:TYR:HD2	1.84	0.42
1:c:444:ASP:OD2	1:c:569:LYS:NZ	2.47	0.42
1:c:469:SER:HA	1:p:440:ASN:ND2	2.35	0.42
1:f:198:ASP:OD1	1:f:199:THR:N	2.52	0.42
1:n:407:GLN:HB3	1:n:429:MET:HG2	2.01	0.42
1:q:92:GLY:O	1:q:485:VAL:N	2.38	0.42
1:q:469:SER:HA	1:s:440:ASN:ND2	2.34	0.42
1:r:440:ASN:ND2	1:s:469:SER:HA	2.34	0.42
1:s:59:ASN:HD22	1:s:102:HIS:HA	1.84	0.42
1:s:407:GLN:HB3	1:s:429:MET:HG2	2.01	0.42
1:t:64:TYR:CE1	1:t:183:LEU:HD13	2.54	0.42
1:u:407:GLN:HB3	1:u:429:MET:HG2	2.01	0.42
1:u:533:ASP:OD1	1:1:530:SER:HA	2.18	0.42
1:y:258:LEU:HA	1:y:258:LEU:HD13	1.89	0.42
1:y:276:ASN:OD1	1:y:276:ASN:N	2.45	0.42
1:z:392:ARG:O	1:z:392:ARG:HG3	2.18	0.42
1:1:126:LYS:HG2	1:1:128:TYR:HD2	1.84	0.42
1:2:64:TYR:CE1	1:2:183:LEU:HD13	2.54	0.42
1:3:81:ASN:HB2	1:3:355:TRP:CZ3	2.54	0.42
1:3:198:ASP:OD1	1:3:199:THR:N	2.52	0.42
1:4:81:ASN:HB2	1:4:355:TRP:CZ3	2.54	0.42
1:5:440:ASN:ND2	1:6:469:SER:HA	2.34	0.42
1:5:469:SER:HA	1:7:440:ASN:ND2	2.34	0.42
1:6:126:LYS:HG2	1:6:128:TYR:HD2	1.84	0.42
1:7:531:LYS:HD2	1:7:531:LYS:HA	1.76	0.42
1:8:66:PRO:HD2	1:8:68:TYR:CZ	2.54	0.42
1:8:198:ASP:OD1	1:8:199:THR:N	2.52	0.42
1:A:491:PRO:HG3	1:B:181:VAL:HG11	2.02	0.42
1:B:66:PRO:HD2	1:B:68:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:105:PRO:HB2	1:I:528:PRO:HD3	2.00	0.42
1:B:160:HIS:HD2	1:B:478:HIS:HD2	1.65	0.42
1:C:440:ASN:ND2	1:b:469:SER:HA	2.34	0.42
1:D:54:ARG:NH1	1:D:515:GLU:OE2	2.48	0.42
1:E:81:ASN:HB2	1:E:355:TRP:CZ3	2.54	0.42
1:G:407:GLN:HB3	1:G:429:MET:HG2	2.01	0.42
1:H:321:GLY:H	1:Y:407:GLN:NE2	2.11	0.42
1:H:440:ASN:ND2	1:W:469:SER:HA	2.34	0.42
1:H:531:LYS:HA	1:H:531:LYS:HD2	1.76	0.42
1:I:64:TYR:CE1	1:I:183:LEU:HD13	2.54	0.42
1:J:106:GLN:HE22	1:K:523:THR:HG21	1.83	0.42
1:J:120:PRO:HG3	1:J:516:TRP:CZ3	2.53	0.42
1:J:444:ASP:OD2	1:J:569:LYS:NZ	2.47	0.42
1:K:81:ASN:HB2	1:K:355:TRP:CZ3	2.54	0.42
1:K:444:ASP:OD2	1:K:569:LYS:NZ	2.47	0.42
1:M:126:LYS:HG2	1:M:128:TYR:HD2	1.84	0.42
1:N:181:VAL:HG11	1:m:491:PRO:HG3	2.01	0.42
1:O:491:PRO:HG3	1:d:181:VAL:HG11	2.01	0.42
1:P:54:ARG:NH1	1:P:515:GLU:OE2	2.48	0.42
1:P:132:ILE:HG13	1:P:506:VAL:HG22	2.02	0.42
1:P:153:HIS:ND1	1:P:229:HIS:HE1	2.18	0.42
1:Q:59:ASN:HD22	1:Q:102:HIS:HA	1.84	0.42
1:Q:198:ASP:OD1	1:Q:199:THR:N	2.51	0.42
1:R:54:ARG:NH1	1:R:515:GLU:OE2	2.48	0.42
1:R:469:SER:HA	1:U:440:ASN:ND2	2.34	0.42
1:R:524:LYS:HG2	1:S:161:GLN:HB3	2.00	0.42
1:S:66:PRO:HD2	1:S:68:TYR:CZ	2.55	0.42
1:S:407:GLN:HB3	1:S:429:MET:HG2	2.01	0.42
1:W:81:ASN:HB2	1:W:355:TRP:CZ3	2.54	0.42
1:W:126:LYS:HG2	1:W:128:TYR:HD2	1.84	0.42
1:W:531:LYS:HD2	1:W:531:LYS:HA	1.77	0.42
1:Y:407:GLN:HB3	1:Y:429:MET:HG2	2.01	0.42
1:Z:148:LEU:O	1:Z:149:THR:OG1	2.28	0.42
1:a:81:ASN:HB2	1:a:355:TRP:CZ3	2.54	0.42
1:a:198:ASP:OD1	1:a:199:THR:N	2.52	0.42
1:b:126:LYS:HG2	1:b:128:TYR:HD2	1.84	0.42
1:b:444:ASP:OD2	1:b:569:LYS:NZ	2.47	0.42
1:d:106:GLN:HE22	1:n:523:THR:HG21	1.83	0.42
1:e:126:LYS:HG2	1:e:128:TYR:HD2	1.84	0.42
1:f:88:LYS:HG3	1:g:265:LEU:HD11	2.01	0.42
1:f:126:LYS:HG2	1:f:128:TYR:HD2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:379:SER:OG	1:g:451:ASP:OD2	2.26	0.42
1:i:126:LYS:HG2	1:i:128:TYR:HD2	1.84	0.42
1:j:54:ARG:NH1	1:j:515:GLU:OE2	2.48	0.42
1:j:66:PRO:HD2	1:j:68:TYR:CZ	2.55	0.42
1:j:105:PRO:HB2	1:w:528:PRO:HD3	2.00	0.42
1:l:491:PRO:HG3	1:n:181:VAL:HG11	2.01	0.42
1:m:54:ARG:NH1	1:m:515:GLU:OE2	2.48	0.42
1:m:407:GLN:HB3	1:m:429:MET:HG2	2.01	0.42
1:p:105:PRO:HB2	1:s:528:PRO:HD3	2.00	0.42
1:r:66:PRO:HD2	1:r:68:TYR:CZ	2.55	0.42
1:t:407:GLN:HB3	1:t:429:MET:HG2	2.01	0.42
1:u:64:TYR:CE1	1:u:183:LEU:HD13	2.54	0.42
1:u:528:PRO:HD3	1:l:105:PRO:HB2	2.00	0.42
1:v:491:PRO:HG3	1:l:181:VAL:HG11	2.02	0.42
1:w:121:LYS:HD2	1:w:121:LYS:HA	1.80	0.42
1:y:126:LYS:HG2	1:y:128:TYR:HD2	1.84	0.42
1:z:81:ASN:HB2	1:z:355:TRP:CZ3	2.54	0.42
1:z:342:GLN:HE22	1:l:410:THR:HG22	1.82	0.42
1:z:469:SER:HA	1:2:440:ASN:ND2	2.34	0.42
1:1:59:ASN:HD22	1:1:102:HIS:HA	1.84	0.42
1:1:66:PRO:HD2	1:1:68:TYR:CZ	2.55	0.42
1:3:334:ALA:O	1:3:348:GLN:NE2	2.38	0.42
1:4:126:LYS:HG2	1:4:128:TYR:HD2	1.84	0.42
1:4:407:GLN:HB3	1:4:429:MET:HG2	2.01	0.42
1:4:531:LYS:HA	1:4:531:LYS:HD2	1.76	0.42
1:5:161:GLN:HB3	1:7:524:LYS:HG2	2.00	0.42
1:5:524:LYS:HG2	1:6:161:GLN:HB3	2.00	0.42
1:6:81:ASN:HB2	1:6:355:TRP:CZ3	2.54	0.42
1:7:400:ARG:NH1	1:7:444:ASP:O	2.46	0.42
1:7:407:GLN:HB3	1:7:429:MET:HG2	2.01	0.42
1:A:181:VAL:HG11	1:E:491:PRO:HG3	2.01	0.42
1:D:64:TYR:CE1	1:D:183:LEU:HD13	2.54	0.42
1:E:407:GLN:HB3	1:E:429:MET:HG2	2.01	0.42
1:F:64:TYR:CE1	1:F:183:LEU:HD13	2.54	0.42
1:F:276:ASN:OD1	1:F:276:ASN:N	2.45	0.42
1:F:407:GLN:HB3	1:F:429:MET:HG2	2.01	0.42
1:F:491:PRO:HG3	1:R:181:VAL:HG11	2.02	0.42
1:I:59:ASN:HD22	1:I:102:HIS:HA	1.84	0.42
1:I:392:ARG:HG3	1:I:392:ARG:O	2.18	0.42
1:J:407:GLN:HB3	1:J:429:MET:HG2	2.01	0.42
1:K:126:LYS:HG2	1:K:128:TYR:HD2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:407:GLN:HB3	1:K:429:MET:HG2	2.01	0.42
1:M:64:TYR:CE1	1:M:183:LEU:HD13	2.54	0.42
1:M:81:ASN:HB2	1:M:355:TRP:CZ3	2.54	0.42
1:M:198:ASP:OD1	1:M:199:THR:N	2.52	0.42
1:N:524:LYS:HG2	1:P:161:GLN:HB3	2.00	0.42
1:O:59:ASN:HD22	1:O:102:HIS:HA	1.84	0.42
1:O:126:LYS:HG2	1:O:128:TYR:HD2	1.84	0.42
1:O:531:LYS:HA	1:O:531:LYS:HD2	1.76	0.42
1:P:66:PRO:HD2	1:P:68:TYR:CZ	2.55	0.42
1:R:177:LEU:HB2	1:R:180:LYS:HG2	2.02	0.42
1:T:407:GLN:HB3	1:T:429:MET:HG2	2.01	0.42
1:T:524:LYS:HG2	1:d:161:GLN:HB3	2.00	0.42
1:U:181:VAL:HG11	1:e:491:PRO:HG3	2.02	0.42
1:U:528:PRO:HD3	1:V:105:PRO:HB2	2.00	0.42
1:V:443:TRP:NE1	1:V:468:ASP:OD2	2.24	0.42
1:X:161:GLN:HB3	1:e:524:LYS:HG2	2.00	0.42
1:X:410:THR:HG22	1:e:342:GLN:HE22	1.83	0.42
1:X:469:SER:HA	1:e:440:ASN:ND2	2.34	0.42
1:Z:64:TYR:CE1	1:Z:183:LEU:HD13	2.54	0.42
1:Z:121:LYS:HA	1:Z:121:LYS:HD2	1.79	0.42
1:Z:198:ASP:OD1	1:Z:199:THR:N	2.52	0.42
1:a:105:PRO:HB2	1:3:528:PRO:HD3	2.00	0.42
1:a:528:PRO:HD3	1:3:105:PRO:HB2	2.00	0.42
1:b:66:PRO:HD2	1:b:68:TYR:CZ	2.54	0.42
1:b:106:GLN:HE22	1:c:523:THR:HG21	1.83	0.42
1:c:66:PRO:HD2	1:c:68:TYR:CZ	2.54	0.42
1:d:66:PRO:HD2	1:d:68:TYR:CZ	2.54	0.42
1:d:379:SER:OG	1:d:451:ASP:OD2	2.26	0.42
1:e:198:ASP:OD1	1:e:199:THR:N	2.52	0.42
1:e:523:THR:HG21	1:f:106:GLN:HE22	1.83	0.42
1:f:64:TYR:CE1	1:f:183:LEU:HD13	2.54	0.42
1:f:66:PRO:HD2	1:f:68:TYR:CZ	2.54	0.42
1:g:547:ALA:HA	1:1:75:LYS:HB3	1.99	0.42
1:h:126:LYS:HG2	1:h:128:TYR:HD2	1.84	0.42
1:i:160:HIS:HD2	1:i:478:HIS:HD2	1.65	0.42
1:i:177:LEU:HB2	1:i:180:LYS:HG2	2.02	0.42
1:i:524:LYS:HG2	1:j:161:GLN:HB3	2.00	0.42
1:j:64:TYR:CE1	1:j:183:LEU:HD13	2.54	0.42
1:j:132:ILE:HG13	1:j:506:VAL:HG22	2.02	0.42
1:j:153:HIS:ND1	1:j:229:HIS:HE1	2.18	0.42
1:j:181:VAL:HG11	1:x:491:PRO:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:64:TYR:CE1	1:k:183:LEU:HD13	2.54	0.42
1:k:66:PRO:HD2	1:k:68:TYR:CZ	2.54	0.42
1:l:126:LYS:HG2	1:l:128:TYR:HD2	1.84	0.42
1:m:64:TYR:CE1	1:m:183:LEU:HD13	2.54	0.42
1:m:66:PRO:HD2	1:m:68:TYR:CZ	2.55	0.42
1:m:198:ASP:OD1	1:m:199:THR:N	2.52	0.42
1:n:66:PRO:HD2	1:n:68:TYR:CZ	2.54	0.42
1:n:379:SER:OG	1:n:451:ASP:OD2	2.26	0.42
1:n:444:ASP:OD2	1:n:569:LYS:NZ	2.47	0.42
1:o:121:LYS:HA	1:o:121:LYS:HD2	1.79	0.42
1:o:198:ASP:OD1	1:o:199:THR:N	2.52	0.42
1:o:524:LYS:HG2	1:p:161:GLN:HB3	2.00	0.42
1:r:407:GLN:HB3	1:r:429:MET:HG2	2.01	0.42
1:t:275:ARG:HH22	1:t:414:ILE:CG1	2.25	0.42
1:u:59:ASN:HD22	1:u:102:HIS:HA	1.84	0.42
1:u:392:ARG:HG3	1:u:392:ARG:O	2.18	0.42
1:u:524:LYS:HG2	1:v:161:GLN:HB3	2.01	0.42
1:v:181:VAL:HG11	1:w:491:PRO:HG3	2.01	0.42
1:w:81:ASN:HB2	1:w:355:TRP:CZ3	2.54	0.42
1:x:59:ASN:HD22	1:x:102:HIS:HA	1.84	0.42
1:y:64:TYR:CE1	1:y:183:LEU:HD13	2.54	0.42
1:1:153:HIS:ND1	1:1:229:HIS:HE1	2.18	0.42
1:2:407:GLN:HB3	1:2:429:MET:HG2	2.01	0.42
1:3:258:LEU:HA	1:3:258:LEU:HD13	1.89	0.42
1:6:342:GLN:HE22	1:7:410:THR:HG22	1.82	0.42
1:6:531:LYS:HD2	1:6:531:LYS:HA	1.77	0.42
1:8:64:TYR:CE1	1:8:183:LEU:HD13	2.54	0.42
1:A:66:PRO:HD2	1:A:68:TYR:CZ	2.54	0.42
1:A:161:GLN:HB3	1:I:524:LYS:HG2	2.01	0.42
1:B:153:HIS:ND1	1:B:229:HIS:HE1	2.18	0.42
1:B:469:SER:HA	1:L:440:ASN:ND2	2.34	0.42
1:B:491:PRO:HG3	1:C:181:VAL:HG11	2.01	0.42
1:C:66:PRO:HD2	1:C:68:TYR:CZ	2.55	0.42
1:D:126:LYS:HG2	1:D:128:TYR:HD2	1.84	0.42
1:D:198:ASP:OD1	1:D:199:THR:N	2.52	0.42
1:D:451:ASP:OD1	1:D:451:ASP:N	2.50	0.42
1:E:120:PRO:HG3	1:E:516:TRP:CZ3	2.53	0.42
1:E:528:PRO:HD3	1:P:105:PRO:HB2	2.00	0.42
1:I:153:HIS:ND1	1:I:229:HIS:HE1	2.18	0.42
1:J:59:ASN:HD22	1:J:102:HIS:HA	1.84	0.42
1:J:66:PRO:HD2	1:J:68:TYR:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:153:HIS:ND1	1:J:229:HIS:HE1	2.18	0.42
1:K:148:LEU:O	1:K:149:THR:OG1	2.28	0.42
1:L:153:HIS:ND1	1:L:229:HIS:HE1	2.18	0.42
1:M:491:PRO:HG3	1:c:181:VAL:HG11	2.01	0.42
1:N:177:LEU:HB2	1:N:180:LYS:HG2	2.02	0.42
1:P:407:GLN:HB3	1:P:429:MET:HG2	2.01	0.42
1:S:528:PRO:HD3	1:T:105:PRO:HB2	2.00	0.42
1:T:59:ASN:HD22	1:T:102:HIS:HA	1.84	0.42
1:T:64:TYR:CE1	1:T:183:LEU:HD13	2.54	0.42
1:T:66:PRO:HD2	1:T:68:TYR:CZ	2.55	0.42
1:V:132:ILE:HG13	1:V:506:VAL:HG22	2.02	0.42
1:V:153:HIS:ND1	1:V:229:HIS:HE1	2.18	0.42
1:X:198:ASP:OD1	1:X:199:THR:N	2.52	0.42
1:X:223:ILE:HG22	1:X:225:GLU:H	1.85	0.42
1:b:64:TYR:CE1	1:b:183:LEU:HD13	2.54	0.42
1:c:198:ASP:OD1	1:c:199:THR:N	2.52	0.42
1:c:342:GLN:HE22	1:o:410:THR:HG22	1.83	0.42
1:c:440:ASN:ND2	1:o:469:SER:HA	2.34	0.42
1:c:491:PRO:HG3	1:s:181:VAL:HG11	2.02	0.42
1:d:523:THR:HG21	1:n:106:GLN:HE22	1.83	0.42
1:e:66:PRO:HD2	1:e:68:TYR:CZ	2.55	0.42
1:g:64:TYR:CE1	1:g:183:LEU:HD13	2.54	0.42
1:g:66:PRO:HD2	1:g:68:TYR:CZ	2.55	0.42
1:h:64:TYR:CE1	1:h:183:LEU:HD13	2.54	0.42
1:h:66:PRO:HD2	1:h:68:TYR:CZ	2.54	0.42
1:h:81:ASN:HB2	1:h:355:TRP:CZ3	2.54	0.42
1:h:177:LEU:HB2	1:h:180:LYS:HG2	2.02	0.42
1:h:181:VAL:HG11	1:i:491:PRO:HG3	2.02	0.42
1:j:407:GLN:HB3	1:j:429:MET:HG2	2.01	0.42
1:k:198:ASP:OD1	1:k:199:THR:N	2.52	0.42
1:l:59:ASN:HD22	1:l:102:HIS:HA	1.84	0.42
1:l:531:LYS:HA	1:l:531:LYS:HD2	1.76	0.42
1:m:105:PRO:HB2	1:r:528:PRO:HD3	2.00	0.42
1:m:181:VAL:HG11	1:s:491:PRO:HG3	2.02	0.42
1:m:524:LYS:HG2	1:n:161:GLN:HB3	2.00	0.42
1:o:223:ILE:HG22	1:o:225:GLU:H	1.85	0.42
1:p:132:ILE:HG13	1:p:506:VAL:HG22	2.02	0.42
1:q:64:TYR:CE1	1:q:183:LEU:HD13	2.54	0.42
1:q:66:PRO:HD2	1:q:68:TYR:CZ	2.54	0.42
1:q:160:HIS:HD2	1:q:478:HIS:HD2	1.65	0.42
1:q:177:LEU:HB2	1:q:180:LYS:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:181:VAL:HG11	1:y:491:PRO:HG3	2.02	0.42
1:q:524:LYS:HG2	1:r:161:GLN:HB3	2.00	0.42
1:u:153:HIS:ND1	1:u:229:HIS:HE1	2.18	0.42
1:v:66:PRO:HD2	1:v:68:TYR:CZ	2.54	0.42
1:w:407:GLN:HB3	1:w:429:MET:HG2	2.01	0.42
1:x:198:ASP:OD1	1:x:199:THR:N	2.52	0.42
1:y:407:GLN:HB3	1:y:429:MET:HG2	2.01	0.42
1:z:153:HIS:ND1	1:z:229:HIS:HE1	2.18	0.42
1:z:440:ASN:ND2	1:1:469:SER:HA	2.34	0.42
1:1:160:HIS:HD2	1:1:478:HIS:HD2	1.65	0.42
1:2:66:PRO:HD2	1:2:68:TYR:CZ	2.55	0.42
1:7:121:LYS:HA	1:7:121:LYS:HD2	1.79	0.42
1:A:64:TYR:CE1	1:A:183:LEU:HD13	2.54	0.42
1:B:223:ILE:HG22	1:B:225:GLU:H	1.85	0.42
1:C:106:GLN:HE22	1:L:523:THR:HG21	1.83	0.42
1:D:66:PRO:HD2	1:D:68:TYR:CZ	2.55	0.42
1:D:223:ILE:HG22	1:D:225:GLU:H	1.85	0.42
1:E:215:ILE:HD13	1:F:398:MET:HE1	2.02	0.42
1:E:440:ASN:ND2	1:Q:469:SER:HA	2.34	0.42
1:F:126:LYS:HG2	1:F:128:TYR:HD2	1.84	0.42
1:F:444:ASP:OD2	1:F:569:LYS:NZ	2.47	0.42
1:J:198:ASP:OD1	1:J:199:THR:N	2.51	0.42
1:L:126:LYS:HG2	1:L:128:TYR:HD2	1.84	0.42
1:M:66:PRO:HD2	1:M:68:TYR:CZ	2.55	0.42
1:M:177:LEU:HB2	1:M:180:LYS:HG2	2.02	0.42
1:M:181:VAL:HG11	1:N:491:PRO:HG3	2.02	0.42
1:O:223:ILE:HG22	1:O:225:GLU:H	1.85	0.42
1:Q:81:ASN:HB2	1:Q:355:TRP:CZ3	2.54	0.42
1:R:64:TYR:CE1	1:R:183:LEU:HD13	2.54	0.42
1:R:66:PRO:HD2	1:R:68:TYR:CZ	2.54	0.42
1:R:92:GLY:O	1:R:485:VAL:N	2.38	0.42
1:R:160:HIS:HD2	1:R:478:HIS:HD2	1.65	0.42
1:R:223:ILE:HG22	1:R:225:GLU:H	1.85	0.42
1:T:198:ASP:OD1	1:T:199:THR:N	2.52	0.42
1:U:66:PRO:HD2	1:U:68:TYR:CZ	2.55	0.42
1:V:161:GLN:HB3	1:X:524:LYS:HG2	2.00	0.42
1:V:524:LYS:HG2	1:e:161:GLN:HB3	2.00	0.42
1:Z:469:SER:HA	1:3:440:ASN:ND2	2.34	0.42
1:a:177:LEU:HB2	1:a:180:LYS:HG2	2.02	0.42
1:c:161:GLN:HB3	1:p:524:LYS:HG2	2.00	0.42
1:c:524:LYS:HG2	1:o:161:GLN:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:410:THR:HG22	1:h:342:GLN:HE22	1.84	0.42
1:h:198:ASP:OD1	1:h:199:THR:N	2.52	0.42
1:i:544:THR:HG1	1:l:527:ARG:HH11	1.65	0.42
1:k:126:LYS:HG2	1:k:128:TYR:HD2	1.84	0.42
1:l:223:ILE:HG22	1:l:225:GLU:H	1.85	0.42
1:m:258:LEU:HA	1:m:258:LEU:HD13	1.89	0.42
1:m:398:MET:HE1	1:n:215:ILE:HD13	2.02	0.42
1:p:153:HIS:ND1	1:p:229:HIS:HE1	2.18	0.42
1:r:64:TYR:CE1	1:r:183:LEU:HD13	2.54	0.42
1:s:66:PRO:HD2	1:s:68:TYR:CZ	2.55	0.42
1:t:215:ILE:HD13	1:v:398:MET:HE1	2.02	0.42
1:t:527:ARG:HH11	1:5:544:THR:HG1	1.64	0.42
1:v:64:TYR:CE1	1:v:183:LEU:HD13	2.54	0.42
1:v:528:PRO:HD3	1:y:105:PRO:HB2	2.00	0.42
1:w:440:ASN:ND2	1:x:469:SER:HA	2.34	0.42
1:x:81:ASN:HB2	1:x:355:TRP:CZ3	2.54	0.42
1:y:177:LEU:HB2	1:y:180:LYS:HG2	2.02	0.42
1:y:198:ASP:OD1	1:y:199:THR:N	2.52	0.42
1:z:126:LYS:HG2	1:z:128:TYR:HD2	1.84	0.42
1:1:223:ILE:HG22	1:1:225:GLU:H	1.85	0.42
1:2:153:HIS:ND1	1:2:229:HIS:HE1	2.18	0.42
1:3:177:LEU:HB2	1:3:180:LYS:HG2	2.02	0.42
1:4:148:LEU:O	1:4:149:THR:OG1	2.28	0.42
1:4:444:ASP:OD2	1:4:569:LYS:NZ	2.47	0.42
1:A:398:MET:HE1	1:G:215:ILE:HD13	2.02	0.42
1:A:528:PRO:HD3	1:F:105:PRO:HB2	2.00	0.42
1:B:177:LEU:HB2	1:B:180:LYS:HG2	2.02	0.42
1:C:64:TYR:CE1	1:C:183:LEU:HD13	2.54	0.42
1:C:81:ASN:HB2	1:C:355:TRP:CZ3	2.54	0.42
1:C:215:ILE:HD13	1:M:398:MET:HE1	2.02	0.42
1:C:469:SER:HA	1:M:440:ASN:ND2	2.34	0.42
1:D:524:LYS:HG2	1:N:161:GLN:HB3	2.00	0.42
1:E:132:ILE:HG13	1:E:506:VAL:HG22	2.02	0.42
1:F:177:LEU:HB2	1:F:180:LYS:HG2	2.02	0.42
1:F:198:ASP:OD1	1:F:199:THR:N	2.52	0.42
1:F:223:ILE:HG22	1:F:225:GLU:H	1.85	0.42
1:G:153:HIS:ND1	1:G:229:HIS:HE1	2.18	0.42
1:I:66:PRO:HD2	1:I:68:TYR:CZ	2.54	0.42
1:K:153:HIS:ND1	1:K:229:HIS:HE1	2.18	0.42
1:K:398:MET:HE1	1:a:215:ILE:HD13	2.02	0.42
1:L:66:PRO:HD2	1:L:68:TYR:CZ	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:132:ILE:HG13	1:L:506:VAL:HG22	2.02	0.42
1:O:440:ASN:ND2	1:m:469:SER:HA	2.34	0.42
1:P:177:LEU:HB2	1:P:180:LYS:HG2	2.02	0.42
1:Q:153:HIS:ND1	1:Q:229:HIS:HE1	2.18	0.42
1:S:223:ILE:HG22	1:S:225:GLU:H	1.85	0.42
1:S:275:ARG:HH22	1:S:414:ILE:CG1	2.25	0.42
1:T:181:VAL:HG11	1:U:491:PRO:HG3	2.02	0.42
1:T:398:MET:HE1	1:d:215:ILE:HD13	2.02	0.42
1:U:64:TYR:CE1	1:U:183:LEU:HD13	2.54	0.42
1:U:105:PRO:HB2	1:V:528:PRO:HD3	2.00	0.42
1:U:132:ILE:HG13	1:U:506:VAL:HG22	2.02	0.42
1:U:177:LEU:HB2	1:U:180:LYS:HG2	2.02	0.42
1:W:66:PRO:HD2	1:W:68:TYR:CZ	2.55	0.42
1:X:181:VAL:HG11	1:Y:491:PRO:HG3	2.02	0.42
1:d:398:MET:HE1	1:l:215:ILE:HD13	2.02	0.42
1:d:524:LYS:HG2	1:l:161:GLN:HB3	2.00	0.42
1:e:132:ILE:HG13	1:e:506:VAL:HG22	2.02	0.42
1:f:334:ALA:O	1:f:348:GLN:NE2	2.38	0.42
1:g:258:LEU:HA	1:g:258:LEU:HD13	1.89	0.42
1:i:161:GLN:HB3	1:k:524:LYS:HG2	2.00	0.42
1:j:491:PRO:HG3	1:l:181:VAL:HG11	2.02	0.42
1:k:223:ILE:HG22	1:k:225:GLU:H	1.85	0.42
1:m:59:ASN:HD22	1:m:102:HIS:HA	1.84	0.42
1:o:181:VAL:HG11	1:7:491:PRO:HG3	2.02	0.42
1:r:223:ILE:HG22	1:r:225:GLU:H	1.85	0.42
1:s:64:TYR:CE1	1:s:183:LEU:HD13	2.54	0.42
1:s:81:ASN:HB2	1:s:355:TRP:CZ3	2.54	0.42
1:s:132:ILE:HG13	1:s:506:VAL:HG22	2.02	0.42
1:t:153:HIS:ND1	1:t:229:HIS:HE1	2.18	0.42
1:u:66:PRO:HD2	1:u:68:TYR:CZ	2.54	0.42
1:w:120:PRO:HG3	1:w:516:TRP:CZ3	2.53	0.42
1:w:132:ILE:HG13	1:w:506:VAL:HG22	2.02	0.42
1:w:161:GLN:HB3	1:y:524:LYS:HG2	2.00	0.42
1:w:215:ILE:HD13	1:y:398:MET:HE1	2.02	0.42
1:x:153:HIS:ND1	1:x:229:HIS:HE1	2.18	0.42
1:z:132:ILE:HG13	1:z:506:VAL:HG22	2.02	0.42
1:1:177:LEU:HB2	1:1:180:LYS:HG2	2.02	0.42
1:2:59:ASN:HD22	1:2:102:HIS:HA	1.84	0.42
1:2:198:ASP:OD1	1:2:199:THR:N	2.51	0.42
1:3:215:ILE:HD13	1:4:398:MET:HE1	2.02	0.42
1:6:440:ASN:ND2	1:7:469:SER:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:81:ASN:HB2	1:8:355:TRP:CZ3	2.54	0.42
1:A:469:SER:HA	1:I:440:ASN:ND2	2.35	0.42
1:B:215:ILE:HD13	1:L:398:MET:HE1	2.02	0.42
1:B:407:GLN:HB3	1:B:429:MET:HG2	2.01	0.42
1:C:126:LYS:HG2	1:C:128:TYR:HD2	1.84	0.42
1:E:64:TYR:CE1	1:E:183:LEU:HD13	2.54	0.42
1:E:161:GLN:HB3	1:F:524:LYS:HG2	2.00	0.42
1:F:181:VAL:HG11	1:G:491:PRO:HG3	2.01	0.42
1:H:132:ILE:HG13	1:H:506:VAL:HG22	2.02	0.42
1:H:153:HIS:ND1	1:H:229:HIS:HE1	2.18	0.42
1:H:181:VAL:HG11	1:I:491:PRO:HG3	2.01	0.42
1:O:153:HIS:ND1	1:O:229:HIS:HE1	2.18	0.42
1:O:161:GLN:HB3	1:n:524:LYS:HG2	2.00	0.42
1:O:181:VAL:HG11	1:P:491:PRO:HG3	2.02	0.42
1:O:215:ILE:HD13	1:n:398:MET:HE1	2.02	0.42
1:R:81:ASN:HB2	1:R:355:TRP:CZ3	2.54	0.42
1:S:64:TYR:CE1	1:S:183:LEU:HD13	2.54	0.42
1:T:258:LEU:HA	1:T:258:LEU:HD13	1.89	0.42
1:T:469:SER:HA	1:I:440:ASN:ND2	2.34	0.42
1:U:81:ASN:HB2	1:U:355:TRP:CZ3	2.54	0.42
1:V:440:ASN:ND2	1:e:469:SER:HA	2.35	0.42
1:W:440:ASN:ND2	1:Y:469:SER:HA	2.34	0.42
1:Z:81:ASN:HB2	1:Z:355:TRP:CZ3	2.54	0.42
1:c:132:ILE:HG13	1:c:506:VAL:HG22	2.02	0.42
1:e:81:ASN:HB2	1:e:355:TRP:CZ3	2.54	0.42
1:e:181:VAL:HG11	1:h:491:PRO:HG3	2.02	0.42
1:g:81:ASN:HB2	1:g:355:TRP:CZ3	2.54	0.42
1:g:132:ILE:HG13	1:g:506:VAL:HG22	2.02	0.42
1:g:407:GLN:HB3	1:g:429:MET:HG2	2.01	0.42
1:j:177:LEU:HB2	1:j:180:LYS:HG2	2.02	0.42
1:k:531:LYS:HD2	1:k:531:LYS:HA	1.76	0.42
1:m:440:ASN:ND2	1:n:469:SER:HA	2.35	0.42
1:p:66:PRO:HD2	1:p:68:TYR:CZ	2.55	0.42
1:p:223:ILE:HG22	1:p:225:GLU:H	1.85	0.42
1:p:528:PRO:HD3	1:s:105:PRO:HB2	2.00	0.42
1:q:81:ASN:HB2	1:q:355:TRP:CZ3	2.54	0.42
1:q:223:ILE:HG22	1:q:225:GLU:H	1.85	0.42
1:q:407:GLN:HB3	1:q:429:MET:HG2	2.01	0.42
1:s:177:LEU:HB2	1:s:180:LYS:HG2	2.02	0.42
1:t:132:ILE:HG13	1:t:506:VAL:HG22	2.02	0.42
1:t:531:LYS:HD2	1:t:531:LYS:HA	1.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:121:LYS:HA	1:u:121:LYS:HD2	1.79	0.42
1:u:491:PRO:HG3	1:5:181:VAL:HG11	2.01	0.42
1:w:469:SER:HA	1:y:440:ASN:ND2	2.34	0.42
1:x:440:ASN:ND2	1:y:469:SER:HA	2.34	0.42
1:y:223:ILE:HG22	1:y:225:GLU:H	1.85	0.42
1:y:418:ASN:O	1:y:419:THR:OG1	2.33	0.42
1:z:66:PRO:HD2	1:z:68:TYR:CZ	2.55	0.42
1:z:398:MET:HE1	1:1:215:ILE:HD13	2.02	0.42
1:3:64:TYR:CE1	1:3:183:LEU:HD13	2.54	0.42
1:4:66:PRO:HD2	1:4:68:TYR:CZ	2.55	0.42
1:4:153:HIS:ND1	1:4:229:HIS:HE1	2.18	0.42
1:4:177:LEU:HB2	1:4:180:LYS:HG2	2.02	0.42
1:4:275:ARG:HH22	1:4:414:ILE:CG1	2.25	0.42
1:5:132:ILE:HG13	1:5:506:VAL:HG22	2.02	0.42
1:5:153:HIS:ND1	1:5:229:HIS:HE1	2.18	0.42
1:5:400:ARG:NH1	1:5:444:ASP:O	2.46	0.42
1:5:443:TRP:NE1	1:5:468:ASP:OD2	2.24	0.42
1:6:66:PRO:HD2	1:6:68:TYR:CZ	2.55	0.42
1:A:275:ARG:HH22	1:A:414:ILE:CG1	2.25	0.42
1:A:544:THR:OG1	1:F:527:ARG:NH1	2.38	0.42
1:C:121:LYS:HD2	1:C:121:LYS:HA	1.79	0.42
1:C:398:MET:HE1	1:b:215:ILE:HD13	2.02	0.42
1:C:407:GLN:HB3	1:C:429:MET:HG2	2.01	0.42
1:D:81:ASN:HB2	1:D:355:TRP:CZ3	2.54	0.42
1:D:334:ALA:O	1:D:348:GLN:NE2	2.38	0.42
1:E:469:SER:HA	1:F:440:ASN:ND2	2.34	0.42
1:F:469:SER:HA	1:Q:440:ASN:ND2	2.35	0.42
1:G:132:ILE:HG13	1:G:506:VAL:HG22	2.02	0.42
1:G:531:LYS:HA	1:G:531:LYS:HD2	1.76	0.42
1:H:400:ARG:NH1	1:H:444:ASP:O	2.46	0.42
1:K:64:TYR:CE1	1:K:183:LEU:HD13	2.54	0.42
1:K:66:PRO:HD2	1:K:68:TYR:CZ	2.55	0.42
1:K:161:GLN:HB3	1:8:524:LYS:HG2	2.00	0.42
1:K:177:LEU:HB2	1:K:180:LYS:HG2	2.02	0.42
1:K:215:ILE:HD13	1:8:398:MET:HE1	2.02	0.42
1:L:177:LEU:HB2	1:L:180:LYS:HG2	2.02	0.42
1:M:132:ILE:HG13	1:M:506:VAL:HG22	2.02	0.42
1:O:407:GLN:HB3	1:O:429:MET:HG2	2.01	0.42
1:P:81:ASN:HB2	1:P:355:TRP:CZ3	2.54	0.42
1:P:126:LYS:HG2	1:P:128:TYR:HD2	1.84	0.42
1:P:223:ILE:HG22	1:P:225:GLU:H	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:407:GLN:HB3	1:R:429:MET:HG2	2.01	0.42
1:S:334:ALA:O	1:S:348:GLN:NE2	2.38	0.42
1:T:440:ASN:ND2	1:d:469:SER:HA	2.35	0.42
1:U:258:LEU:HA	1:U:258:LEU:HD13	1.89	0.42
1:V:66:PRO:HD2	1:V:68:TYR:CZ	2.55	0.42
1:V:215:ILE:HD13	1:X:398:MET:HE1	2.02	0.42
1:V:223:ILE:HG22	1:V:225:GLU:H	1.85	0.42
1:W:275:ARG:HH22	1:W:414:ILE:CG1	2.25	0.42
1:Y:198:ASP:OD1	1:Y:199:THR:N	2.52	0.42
1:Z:398:MET:HE1	1:4:215:ILE:HD13	2.02	0.42
1:a:64:TYR:CE1	1:a:183:LEU:HD13	2.54	0.42
1:a:66:PRO:HD2	1:a:68:TYR:CZ	2.54	0.42
1:a:223:ILE:HG22	1:a:225:GLU:H	1.85	0.42
1:a:398:MET:HE1	1:8:215:ILE:HD13	2.02	0.42
1:c:81:ASN:HB2	1:c:355:TRP:CZ3	2.54	0.42
1:c:407:GLN:HB3	1:c:429:MET:HG2	2.01	0.42
1:f:153:HIS:ND1	1:f:229:HIS:HE1	2.18	0.42
1:h:132:ILE:HG13	1:h:506:VAL:HG22	2.02	0.42
1:i:444:ASP:OD2	1:i:569:LYS:NZ	2.47	0.42
1:k:407:GLN:HB3	1:k:429:MET:HG2	2.01	0.42
1:l:153:HIS:ND1	1:l:229:HIS:HE1	2.18	0.42
1:q:153:HIS:ND1	1:q:229:HIS:HE1	2.18	0.42
1:t:161:GLN:HB3	1:v:524:LYS:HG2	2.00	0.42
1:u:54:ARG:NH1	1:u:515:GLU:OE2	2.48	0.42
1:u:440:ASN:ND2	1:v:469:SER:HA	2.35	0.42
1:w:64:TYR:CE1	1:w:183:LEU:HD13	2.54	0.42
1:w:198:ASP:OD1	1:w:199:THR:N	2.52	0.42
1:y:121:LYS:HD2	1:y:121:LYS:HA	1.79	0.42
1:y:444:ASP:OD2	1:y:569:LYS:NZ	2.47	0.42
1:1:407:GLN:HB3	1:1:429:MET:HG2	2.01	0.42
1:3:66:PRO:HD2	1:3:68:TYR:CZ	2.54	0.42
1:3:223:ILE:HG22	1:3:225:GLU:H	1.85	0.42
1:6:275:ARG:HH22	1:6:414:ILE:CG1	2.25	0.42
1:7:153:HIS:ND1	1:7:229:HIS:HE1	2.18	0.42
1:7:223:ILE:HG22	1:7:225:GLU:H	1.85	0.42
1:8:223:ILE:HG22	1:8:225:GLU:H	1.85	0.42
1:C:132:ILE:HG13	1:C:506:VAL:HG22	2.02	0.42
1:D:491:PRO:HG3	1:E:181:VAL:HG11	2.02	0.42
1:D:531:LYS:HA	1:D:531:LYS:HD2	1.77	0.42
1:E:198:ASP:OD1	1:E:199:THR:N	2.52	0.42
1:F:393:ASP:OD1	1:F:394:ILE:N	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:223:ILE:HG22	1:G:225:GLU:H	1.85	0.42
1:K:258:LEU:HA	1:K:258:LEU:HD13	1.89	0.42
1:O:66:PRO:HD2	1:O:68:TYR:CZ	2.54	0.42
1:O:81:ASN:HB2	1:O:355:TRP:CZ3	2.54	0.42
1:O:393:ASP:OD1	1:O:394:ILE:N	2.53	0.42
1:S:177:LEU:HB2	1:S:180:LYS:HG2	2.02	0.42
1:T:393:ASP:OD1	1:T:394:ILE:N	2.53	0.42
1:V:64:TYR:CE1	1:V:183:LEU:HD13	2.54	0.42
1:Y:153:HIS:ND1	1:Y:229:HIS:HE1	2.18	0.42
1:Y:223:ILE:HG22	1:Y:225:GLU:H	1.85	0.42
1:Z:215:ILE:HD13	1:3:398:MET:HE1	2.02	0.42
1:f:223:ILE:HG22	1:f:225:GLU:H	1.85	0.42
1:f:410:THR:HG22	1:g:342:GLN:HE22	1.85	0.42
1:g:126:LYS:HG2	1:g:128:TYR:HD2	1.84	0.42
1:h:153:HIS:ND1	1:h:229:HIS:HE1	2.18	0.42
1:h:223:ILE:HG22	1:h:225:GLU:H	1.85	0.42
1:j:81:ASN:HB2	1:j:355:TRP:CZ3	2.54	0.42
1:j:126:LYS:HG2	1:j:128:TYR:HD2	1.84	0.42
1:j:223:ILE:HG22	1:j:225:GLU:H	1.85	0.42
1:l:275:ARG:HH22	1:l:414:ILE:CG1	2.25	0.42
1:l:393:ASP:OD1	1:l:394:ILE:N	2.53	0.42
1:l:407:GLN:HB3	1:l:429:MET:HG2	2.01	0.42
1:m:393:ASP:OD1	1:m:394:ILE:N	2.53	0.42
1:o:398:MET:HE1	1:p:215:ILE:HD13	2.02	0.42
1:r:177:LEU:HB2	1:r:180:LYS:HG2	2.02	0.42
1:t:223:ILE:HG22	1:t:225:GLU:H	1.85	0.42
1:t:491:PRO:HG3	1:y:181:VAL:HG11	2.01	0.42
1:v:126:LYS:HG2	1:v:128:TYR:HD2	1.84	0.42
1:v:275:ARG:HH22	1:v:414:ILE:CG1	2.25	0.42
1:y:393:ASP:OD1	1:y:394:ILE:N	2.53	0.42
1:z:393:ASP:OD1	1:z:394:ILE:N	2.53	0.42
1:2:223:ILE:HG22	1:2:225:GLU:H	1.85	0.42
1:2:393:ASP:OD1	1:2:394:ILE:N	2.53	0.42
1:2:544:THR:HG1	1:4:527:ARG:HH11	1.65	0.42
1:7:198:ASP:OD1	1:7:199:THR:N	2.52	0.42
1:A:393:ASP:OD1	1:A:394:ILE:N	2.53	0.42
1:B:360:VAL:HG12	1:L:296:SER:HB3	2.02	0.42
1:C:153:HIS:ND1	1:C:229:HIS:HE1	2.18	0.42
1:D:215:ILE:HD13	1:P:398:MET:HE1	2.02	0.42
1:D:407:GLN:HB3	1:D:429:MET:HG2	2.01	0.42
1:D:440:ASN:ND2	1:N:469:SER:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:66:PRO:HD2	1:E:68:TYR:CZ	2.55	0.42
1:F:400:ARG:NH1	1:F:444:ASP:O	2.46	0.42
1:F:418:ASN:O	1:F:419:THR:OG1	2.33	0.42
1:I:181:VAL:HG11	1:J:491:PRO:HG3	2.02	0.42
1:J:223:ILE:HG22	1:J:225:GLU:H	1.85	0.42
1:J:393:ASP:OD1	1:J:394:ILE:N	2.53	0.42
1:L:64:TYR:CE1	1:L:183:LEU:HD13	2.54	0.42
1:M:223:ILE:HG22	1:M:225:GLU:H	1.85	0.42
1:M:275:ARG:HH22	1:M:414:ILE:CG1	2.25	0.42
1:N:444:ASP:OD2	1:N:569:LYS:NZ	2.47	0.42
1:R:153:HIS:ND1	1:R:229:HIS:HE1	2.18	0.42
1:R:398:MET:HE1	1:S:215:ILE:HD13	2.02	0.42
1:X:66:PRO:HD2	1:X:68:TYR:CZ	2.55	0.42
1:X:121:LYS:HA	1:X:121:LYS:HD2	1.79	0.42
1:Z:132:ILE:HG13	1:Z:506:VAL:HG22	2.02	0.42
1:Z:223:ILE:HG22	1:Z:225:GLU:H	1.85	0.42
1:Z:524:LYS:HG2	1:4:161:GLN:HB3	2.00	0.42
1:b:132:ILE:HG13	1:b:506:VAL:HG22	2.02	0.42
1:b:153:HIS:ND1	1:b:229:HIS:HE1	2.18	0.42
1:b:223:ILE:HG22	1:b:225:GLU:H	1.85	0.42
1:c:64:TYR:CE1	1:c:183:LEU:HD13	2.54	0.42
1:d:132:ILE:HG13	1:d:506:VAL:HG22	2.02	0.42
1:e:407:GLN:HB3	1:e:429:MET:HG2	2.01	0.42
1:g:223:ILE:HG22	1:g:225:GLU:H	1.85	0.42
1:g:531:LYS:HD2	1:g:531:LYS:HA	1.76	0.42
1:i:64:TYR:CE1	1:i:183:LEU:HD13	2.54	0.42
1:j:398:MET:HE1	1:k:215:ILE:HD13	2.02	0.42
1:k:81:ASN:HB2	1:k:355:TRP:CZ3	2.54	0.42
1:k:393:ASP:OD1	1:k:394:ILE:N	2.53	0.42
1:l:81:ASN:HB2	1:l:355:TRP:CZ3	2.54	0.42
1:n:132:ILE:HG13	1:n:506:VAL:HG22	2.02	0.42
1:o:177:LEU:HB2	1:o:180:LYS:HG2	2.02	0.42
1:o:440:ASN:ND2	1:p:469:SER:HA	2.34	0.42
1:p:64:TYR:CE1	1:p:183:LEU:HD13	2.54	0.42
1:q:360:VAL:HG12	1:s:296:SER:HB3	2.02	0.42
1:q:398:MET:HE1	1:r:215:ILE:HD13	2.02	0.42
1:r:334:ALA:O	1:r:348:GLN:NE2	2.38	0.42
1:u:181:VAL:HG11	1:2:491:PRO:HG3	2.02	0.42
1:v:223:ILE:HG22	1:v:225:GLU:H	1.85	0.42
1:v:393:ASP:OD1	1:v:394:ILE:N	2.53	0.42
1:v:443:TRP:NE1	1:v:468:ASP:OD2	2.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:544:THR:OG1	1:y:527:ARG:NH1	2.39	0.42
1:w:66:PRO:HD2	1:w:68:TYR:CZ	2.54	0.42
1:y:400:ARG:NH1	1:y:444:ASP:O	2.46	0.42
1:z:64:TYR:CE1	1:z:183:LEU:HD13	2.54	0.42
1:z:177:LEU:HB2	1:z:180:LYS:HG2	2.02	0.42
1:z:296:SER:HB3	1:1:360:VAL:HG12	2.02	0.42
1:3:59:ASN:HD22	1:3:102:HIS:HA	1.84	0.42
1:3:153:HIS:ND1	1:3:229:HIS:HE1	2.18	0.42
1:4:64:TYR:CE1	1:4:183:LEU:HD13	2.54	0.42
1:4:223:ILE:HG22	1:4:225:GLU:H	1.85	0.42
1:5:177:LEU:HB2	1:5:180:LYS:HG2	2.02	0.42
1:6:223:ILE:HG22	1:6:225:GLU:H	1.85	0.42
1:7:64:TYR:CE1	1:7:183:LEU:HD13	2.54	0.42
1:8:132:ILE:HG13	1:8:506:VAL:HG22	2.02	0.42
1:8:275:ARG:HH22	1:8:414:ILE:CG1	2.25	0.42
1:A:126:LYS:HG2	1:A:128:TYR:HD2	1.84	0.41
1:A:223:ILE:HG22	1:A:225:GLU:H	1.85	0.41
1:A:524:LYS:HG2	1:G:161:GLN:HB3	2.01	0.41
1:B:64:TYR:CE1	1:B:183:LEU:HD13	2.54	0.41
1:B:444:ASP:OD2	1:B:569:LYS:NZ	2.47	0.41
1:C:223:ILE:HG22	1:C:225:GLU:H	1.85	0.41
1:D:393:ASP:OD1	1:D:394:ILE:N	2.53	0.41
1:E:379:SER:OG	1:E:451:ASP:OD2	2.26	0.41
1:G:181:VAL:HG11	1:W:491:PRO:HG3	2.02	0.41
1:G:440:ASN:ND2	1:I:469:SER:HA	2.34	0.41
1:H:66:PRO:HD2	1:H:68:TYR:CZ	2.55	0.41
1:H:177:LEU:HB2	1:H:180:LYS:HG2	2.02	0.41
1:H:223:ILE:HG22	1:H:225:GLU:H	1.85	0.41
1:I:54:ARG:NH1	1:I:515:GLU:OE2	2.48	0.41
1:J:443:TRP:NE1	1:J:468:ASP:OD2	2.24	0.41
1:K:223:ILE:HG22	1:K:225:GLU:H	1.85	0.41
1:K:275:ARG:HH22	1:K:414:ILE:CG1	2.25	0.41
1:K:440:ASN:ND2	1:a:469:SER:HA	2.35	0.41
1:L:393:ASP:OD1	1:L:394:ILE:N	2.53	0.41
1:N:64:TYR:CE1	1:N:183:LEU:HD13	2.54	0.41
1:N:223:ILE:HG22	1:N:225:GLU:H	1.85	0.41
1:N:440:ASN:ND2	1:P:469:SER:HA	2.34	0.41
1:O:469:SER:HA	1:n:440:ASN:ND2	2.34	0.41
1:Q:223:ILE:HG22	1:Q:225:GLU:H	1.85	0.41
1:R:275:ARG:HH22	1:R:414:ILE:CG1	2.25	0.41
1:R:360:VAL:HG12	1:U:296:SER:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:491:PRO:HG3	1:W:181:VAL:HG11	2.01	0.41
1:W:64:TYR:CE1	1:W:183:LEU:HD13	2.54	0.41
1:W:296:SER:HB3	1:Y:360:VAL:HG12	2.02	0.41
1:X:64:TYR:CE1	1:X:183:LEU:HD13	2.54	0.41
1:X:177:LEU:HB2	1:X:180:LYS:HG2	2.02	0.41
1:X:215:ILE:HD13	1:e:398:MET:HE1	2.02	0.41
1:Y:177:LEU:HB2	1:Y:180:LYS:HG2	2.02	0.41
1:Z:153:HIS:ND1	1:Z:229:HIS:HE1	2.18	0.41
1:Z:177:LEU:HB2	1:Z:180:LYS:HG2	2.02	0.41
1:a:153:HIS:ND1	1:a:229:HIS:HE1	2.18	0.41
1:c:309:ASN:HB3	1:c:320:LEU:HD12	2.03	0.41
1:e:64:TYR:CE1	1:e:183:LEU:HD13	2.54	0.41
1:f:132:ILE:HG13	1:f:506:VAL:HG22	2.02	0.41
1:g:121:LYS:HD2	1:g:121:LYS:HA	1.79	0.41
1:g:309:ASN:HB3	1:g:320:LEU:HD12	2.02	0.41
1:i:469:SER:HA	1:k:440:ASN:ND2	2.34	0.41
1:j:393:ASP:OD1	1:j:394:ILE:N	2.53	0.41
1:k:153:HIS:ND1	1:k:229:HIS:HE1	2.18	0.41
1:l:66:PRO:HD2	1:l:68:TYR:CZ	2.54	0.41
1:o:66:PRO:HD2	1:o:68:TYR:CZ	2.55	0.41
1:q:275:ARG:HH22	1:q:414:ILE:CG1	2.25	0.41
1:q:393:ASP:OD1	1:q:394:ILE:N	2.53	0.41
1:r:153:HIS:ND1	1:r:229:HIS:HE1	2.18	0.41
1:r:491:PRO:HG3	1:x:181:VAL:HG11	2.02	0.41
1:2:394:ILE:O	1:2:394:ILE:HG13	2.20	0.41
1:3:469:SER:HA	1:4:440:ASN:ND2	2.35	0.41
1:4:258:LEU:HA	1:4:258:LEU:HD13	1.89	0.41
1:6:64:TYR:CE1	1:6:183:LEU:HD13	2.54	0.41
1:6:296:SER:HB3	1:7:360:VAL:HG12	2.02	0.41
1:7:177:LEU:HB2	1:7:180:LYS:HG2	2.02	0.41
1:8:126:LYS:HG2	1:8:128:TYR:HD2	1.84	0.41
1:B:394:ILE:O	1:B:394:ILE:HG13	2.20	0.41
1:B:440:ASN:ND2	1:J:469:SER:HA	2.34	0.41
1:C:161:GLN:HB3	1:M:524:LYS:HG2	2.00	0.41
1:C:531:LYS:HD2	1:C:531:LYS:HA	1.76	0.41
1:D:153:HIS:ND1	1:D:229:HIS:HE1	2.18	0.41
1:F:153:HIS:ND1	1:F:229:HIS:HE1	2.18	0.41
1:G:59:ASN:HD22	1:G:102:HIS:HA	1.84	0.41
1:H:394:ILE:O	1:H:394:ILE:HG13	2.21	0.41
1:H:491:PRO:HG3	1:Z:181:VAL:HG11	2.02	0.41
1:I:223:ILE:HG22	1:I:225:GLU:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:394:ILE:O	1:J:394:ILE:HG13	2.20	0.41
1:J:531:LYS:HD2	1:J:531:LYS:HA	1.76	0.41
1:K:360:VAL:HG12	1:8:296:SER:HB3	2.03	0.41
1:M:153:HIS:ND1	1:M:229:HIS:HE1	2.18	0.41
1:M:215:ILE:HD13	1:b:398:MET:HE1	2.02	0.41
1:M:400:ARG:NH1	1:M:444:ASP:O	2.46	0.41
1:N:296:SER:HB3	1:P:360:VAL:HG12	2.02	0.41
1:N:393:ASP:OD1	1:N:394:ILE:N	2.53	0.41
1:P:309:ASN:HB3	1:P:320:LEU:HD12	2.02	0.41
1:P:393:ASP:OD1	1:P:394:ILE:N	2.53	0.41
1:Q:181:VAL:HG11	1:S:491:PRO:HG3	2.02	0.41
1:R:393:ASP:OD1	1:R:394:ILE:N	2.53	0.41
1:R:440:ASN:ND2	1:S:469:SER:HA	2.34	0.41
1:S:153:HIS:ND1	1:S:229:HIS:HE1	2.18	0.41
1:T:296:SER:HB3	1:d:360:VAL:HG12	2.02	0.41
1:U:394:ILE:O	1:U:394:ILE:HG13	2.20	0.41
1:V:360:VAL:HG12	1:X:296:SER:HB3	2.02	0.41
1:V:469:SER:HA	1:X:440:ASN:ND2	2.34	0.41
1:W:223:ILE:HG22	1:W:225:GLU:H	1.85	0.41
1:Y:64:TYR:CE1	1:Y:183:LEU:HD13	2.54	0.41
1:Y:181:VAL:HG11	1:4:491:PRO:HG3	2.01	0.41
1:Y:394:ILE:O	1:Y:394:ILE:HG13	2.21	0.41
1:Z:275:ARG:HH22	1:Z:414:ILE:CG1	2.25	0.41
1:Z:394:ILE:HG13	1:Z:394:ILE:O	2.21	0.41
1:a:59:ASN:HD22	1:a:102:HIS:HA	1.84	0.41
1:c:398:MET:HE1	1:o:215:ILE:HD13	2.02	0.41
1:d:440:ASN:ND2	1:l:469:SER:HA	2.34	0.41
1:e:309:ASN:HB3	1:e:320:LEU:HD12	2.03	0.41
1:g:153:HIS:ND1	1:g:229:HIS:HE1	2.18	0.41
1:h:394:ILE:O	1:h:394:ILE:HG13	2.20	0.41
1:i:223:ILE:HG22	1:i:225:GLU:H	1.85	0.41
1:i:393:ASP:OD1	1:i:394:ILE:N	2.53	0.41
1:i:440:ASN:ND2	1:j:469:SER:HA	2.35	0.41
1:j:309:ASN:HB3	1:j:320:LEU:HD12	2.03	0.41
1:k:394:ILE:O	1:k:394:ILE:HG13	2.21	0.41
1:k:491:PRO:HG3	1:w:181:VAL:HG11	2.02	0.41
1:m:443:TRP:NE1	1:m:468:ASP:OD2	2.24	0.41
1:o:64:TYR:CE1	1:o:183:LEU:HD13	2.54	0.41
1:o:296:SER:HB3	1:p:360:VAL:HG12	2.02	0.41
1:o:443:TRP:NE1	1:o:468:ASP:OD2	2.24	0.41
1:p:491:PRO:HG3	1:6:181:VAL:HG11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:440:ASN:ND2	1:r:469:SER:HA	2.34	0.41
1:s:394:ILE:O	1:s:394:ILE:HG13	2.20	0.41
1:t:181:VAL:HG11	1:6:491:PRO:HG3	2.01	0.41
1:w:418:ASN:O	1:w:419:THR:OG1	2.33	0.41
1:x:444:ASP:OD2	1:x:569:LYS:NZ	2.47	0.41
1:y:132:ILE:HG13	1:y:506:VAL:HG22	2.02	0.41
1:y:153:HIS:ND1	1:y:229:HIS:HE1	2.18	0.41
1:1:64:TYR:CE1	1:1:183:LEU:HD13	2.54	0.41
1:5:66:PRO:HD2	1:5:68:TYR:CZ	2.55	0.41
1:5:223:ILE:HG22	1:5:225:GLU:H	1.85	0.41
1:5:394:ILE:O	1:5:394:ILE:HG13	2.21	0.41
1:5:418:ASN:O	1:5:419:THR:OG1	2.33	0.41
1:7:394:ILE:O	1:7:394:ILE:HG13	2.21	0.41
1:8:153:HIS:ND1	1:8:229:HIS:HE1	2.18	0.41
1:A:407:GLN:HB3	1:A:429:MET:HG2	2.01	0.41
1:B:398:MET:HE1	1:J:215:ILE:HD13	2.02	0.41
1:C:309:ASN:HB3	1:C:320:LEU:HD12	2.03	0.41
1:C:491:PRO:HG3	1:D:181:VAL:HG11	2.01	0.41
1:D:398:MET:HE1	1:N:215:ILE:HD13	2.02	0.41
1:D:469:SER:HA	1:P:440:ASN:ND2	2.34	0.41
1:E:400:ARG:NH1	1:E:444:ASP:O	2.46	0.41
1:F:132:ILE:HG13	1:F:506:VAL:HG22	2.02	0.41
1:G:309:ASN:HB3	1:G:320:LEU:HD12	2.02	0.41
1:G:398:MET:HE1	1:I:215:ILE:HD13	2.02	0.41
1:H:64:TYR:CE1	1:H:183:LEU:HD13	2.54	0.41
1:H:418:ASN:O	1:H:419:THR:OG1	2.33	0.41
1:H:443:TRP:NE1	1:H:468:ASP:OD2	2.24	0.41
1:I:121:LYS:HA	1:I:121:LYS:HD2	1.79	0.41
1:K:469:SER:HA	1:8:440:ASN:ND2	2.34	0.41
1:K:491:PRO:HG3	1:7:181:VAL:HG11	2.01	0.41
1:L:181:VAL:HG11	1:b:491:PRO:HG3	2.02	0.41
1:L:394:ILE:HG13	1:L:394:ILE:O	2.20	0.41
1:M:394:ILE:O	1:M:394:ILE:HG13	2.21	0.41
1:N:153:HIS:ND1	1:N:229:HIS:HE1	2.18	0.41
1:O:64:TYR:CE1	1:O:183:LEU:HD13	2.54	0.41
1:O:275:ARG:HH22	1:O:414:ILE:CG1	2.25	0.41
1:P:444:ASP:OD2	1:P:569:LYS:NZ	2.47	0.41
1:Q:66:PRO:HD2	1:Q:68:TYR:CZ	2.54	0.41
1:S:398:MET:HE1	1:U:215:ILE:HD13	2.02	0.41
1:T:444:ASP:OD2	1:T:569:LYS:NZ	2.47	0.41
1:U:223:ILE:HG22	1:U:225:GLU:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:309:ASN:HB3	1:X:320:LEU:HD12	2.03	0.41
1:X:360:VAL:HG12	1:e:296:SER:HB3	2.03	0.41
1:Y:309:ASN:HB3	1:Y:320:LEU:HD12	2.03	0.41
1:Y:393:ASP:OD1	1:Y:394:ILE:N	2.53	0.41
1:Z:126:LYS:HG2	1:Z:128:TYR:HD2	1.84	0.41
1:Z:296:SER:HB3	1:4:360:VAL:HG12	2.03	0.41
1:Z:491:PRO:HG3	1:a:181:VAL:HG11	2.01	0.41
1:a:393:ASP:OD1	1:a:394:ILE:N	2.53	0.41
1:c:296:SER:HB3	1:o:360:VAL:HG12	2.03	0.41
1:d:64:TYR:CE1	1:d:183:LEU:HD13	2.54	0.41
1:e:275:ARG:HH22	1:e:414:ILE:CG1	2.25	0.41
1:e:393:ASP:OD1	1:e:394:ILE:N	2.53	0.41
1:f:398:MET:HE1	1:h:215:ILE:HD13	2.02	0.41
1:g:177:LEU:HB2	1:g:180:LYS:HG2	2.02	0.41
1:i:296:SER:HB3	1:j:360:VAL:HG12	2.02	0.41
1:j:440:ASN:ND2	1:k:469:SER:HA	2.34	0.41
1:k:334:ALA:O	1:k:348:GLN:NE2	2.38	0.41
1:l:64:TYR:CE1	1:l:183:LEU:HD13	2.54	0.41
1:m:296:SER:HB3	1:n:360:VAL:HG12	2.02	0.41
1:o:309:ASN:HB3	1:o:320:LEU:HD12	2.03	0.41
1:r:59:ASN:HD22	1:r:102:HIS:HA	1.84	0.41
1:r:393:ASP:OD1	1:r:394:ILE:N	2.53	0.41
1:r:398:MET:HE1	1:s:215:ILE:HD13	2.02	0.41
1:s:393:ASP:OD1	1:s:394:ILE:N	2.53	0.41
1:t:309:ASN:HB3	1:t:320:LEU:HD12	2.03	0.41
1:t:398:MET:HE1	1:u:215:ILE:HD13	2.02	0.41
1:t:440:ASN:ND2	1:u:469:SER:HA	2.34	0.41
1:w:393:ASP:OD1	1:w:394:ILE:N	2.53	0.41
1:x:66:PRO:HD2	1:x:68:TYR:CZ	2.54	0.41
1:x:223:ILE:HG22	1:x:225:GLU:H	1.85	0.41
1:z:491:PRO:HG3	1:4:181:VAL:HG11	2.02	0.41
1:1:394:ILE:HG13	1:1:394:ILE:O	2.20	0.41
1:1:440:ASN:ND2	1:2:469:SER:HA	2.34	0.41
1:2:531:LYS:HD2	1:2:531:LYS:HA	1.76	0.41
1:3:181:VAL:HG11	1:8:491:PRO:HG3	2.01	0.41
1:3:444:ASP:OD2	1:3:569:LYS:NZ	2.47	0.41
1:5:491:PRO:HG3	1:8:181:VAL:HG11	2.02	0.41
1:7:132:ILE:HG13	1:7:506:VAL:HG22	2.02	0.41
1:8:177:LEU:HB2	1:8:180:LYS:HG2	2.02	0.41
1:8:394:ILE:O	1:8:394:ILE:HG13	2.21	0.41
1:A:443:TRP:NE1	1:A:468:ASP:OD2	2.24	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:177:LEU:HB2	1:C:180:LYS:HG2	2.02	0.41
1:C:296:SER:HB3	1:b:360:VAL:HG12	2.03	0.41
1:D:394:ILE:HG13	1:D:394:ILE:O	2.21	0.41
1:E:393:ASP:OD1	1:E:394:ILE:N	2.53	0.41
1:F:66:PRO:HD2	1:F:68:TYR:CZ	2.54	0.41
1:I:132:ILE:HG13	1:I:506:VAL:HG22	2.02	0.41
1:J:177:LEU:HB2	1:J:180:LYS:HG2	2.02	0.41
1:J:309:ASN:HB3	1:J:320:LEU:HD12	2.02	0.41
1:L:309:ASN:HB3	1:L:320:LEU:HD12	2.03	0.41
1:M:393:ASP:OD1	1:M:394:ILE:N	2.53	0.41
1:P:258:LEU:HA	1:P:258:LEU:HD13	1.89	0.41
1:Q:393:ASP:OD1	1:Q:394:ILE:N	2.53	0.41
1:Q:444:ASP:OD2	1:Q:569:LYS:NZ	2.47	0.41
1:R:126:LYS:HG2	1:R:128:TYR:HD2	1.84	0.41
1:R:132:ILE:HG13	1:R:506:VAL:HG22	2.02	0.41
1:S:393:ASP:OD1	1:S:394:ILE:N	2.53	0.41
1:U:153:HIS:ND1	1:U:229:HIS:HE1	2.18	0.41
1:U:393:ASP:OD1	1:U:394:ILE:N	2.53	0.41
1:X:132:ILE:HG13	1:X:506:VAL:HG22	2.02	0.41
1:Y:132:ILE:HG13	1:Y:506:VAL:HG22	2.02	0.41
1:c:393:ASP:OD1	1:c:394:ILE:N	2.53	0.41
1:f:309:ASN:HB3	1:f:320:LEU:HD12	2.03	0.41
1:h:275:ARG:HH22	1:h:414:ILE:CG1	2.25	0.41
1:h:400:ARG:NH1	1:h:444:ASP:O	2.46	0.41
1:i:153:HIS:ND1	1:i:229:HIS:HE1	2.18	0.41
1:i:215:ILE:HD13	1:k:398:MET:HE1	2.02	0.41
1:n:64:TYR:CE1	1:n:183:LEU:HD13	2.54	0.41
1:n:394:ILE:HG13	1:n:394:ILE:O	2.21	0.41
1:p:181:VAL:HG11	1:q:491:PRO:HG3	2.02	0.41
1:q:132:ILE:HG13	1:q:506:VAL:HG22	2.02	0.41
1:q:444:ASP:OD2	1:q:569:LYS:NZ	2.47	0.41
1:u:223:ILE:HG22	1:u:225:GLU:H	1.85	0.41
1:x:121:LYS:HA	1:x:121:LYS:HD2	1.79	0.41
1:x:393:ASP:OD1	1:x:394:ILE:N	2.53	0.41
1:1:398:MET:HE1	1:2:215:ILE:HD13	2.02	0.41
1:1:444:ASP:OD2	1:1:569:LYS:NZ	2.47	0.41
1:2:309:ASN:HB3	1:2:320:LEU:HD12	2.02	0.41
1:3:393:ASP:OD1	1:3:394:ILE:N	2.53	0.41
1:5:64:TYR:CE1	1:5:183:LEU:HD13	2.54	0.41
1:6:398:MET:HE1	1:7:215:ILE:HD13	2.02	0.41
1:7:309:ASN:HB3	1:7:320:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:393:ASP:OD1	1:7:394:ILE:N	2.53	0.41
1:A:334:ALA:O	1:A:348:GLN:NE2	2.38	0.41
1:C:59:ASN:HD22	1:C:102:HIS:HA	1.84	0.41
1:C:394:ILE:O	1:C:394:ILE:HG13	2.21	0.41
1:D:132:ILE:HG13	1:D:506:VAL:HG22	2.02	0.41
1:D:177:LEU:HB2	1:D:180:LYS:HG2	2.02	0.41
1:G:393:ASP:OD1	1:G:394:ILE:N	2.53	0.41
1:H:360:VAL:HG12	1:Y:296:SER:HB3	2.02	0.41
1:J:398:MET:HE1	1:L:215:ILE:HD13	2.02	0.41
1:K:132:ILE:HG13	1:K:506:VAL:HG22	2.02	0.41
1:K:181:VAL:HG11	1:L:491:PRO:HG3	2.02	0.41
1:O:177:LEU:HB2	1:O:180:LYS:HG2	2.02	0.41
1:Q:126:LYS:HG2	1:Q:128:TYR:HD2	1.84	0.41
1:S:59:ASN:HD22	1:S:102:HIS:HA	1.84	0.41
1:U:400:ARG:NH1	1:U:444:ASP:O	2.46	0.41
1:W:393:ASP:OD1	1:W:394:ILE:N	2.53	0.41
1:X:393:ASP:OD1	1:X:394:ILE:N	2.53	0.41
1:X:394:ILE:O	1:X:394:ILE:HG13	2.21	0.41
1:Z:440:ASN:ND2	1:4:469:SER:HA	2.34	0.41
1:a:132:ILE:HG13	1:a:506:VAL:HG22	2.02	0.41
1:a:440:ASN:ND2	1:8:469:SER:HA	2.34	0.41
1:b:309:ASN:HB3	1:b:320:LEU:HD12	2.03	0.41
1:c:394:ILE:HG13	1:c:394:ILE:O	2.21	0.41
1:d:126:LYS:HG2	1:d:128:TYR:HD2	1.84	0.41
1:d:309:ASN:HB3	1:d:320:LEU:HD12	2.03	0.41
1:d:394:ILE:HG13	1:d:394:ILE:O	2.21	0.41
1:e:394:ILE:HG13	1:e:394:ILE:O	2.21	0.41
1:f:469:SER:HA	1:g:440:ASN:ND2	2.36	0.41
1:f:491:PRO:HG3	1:z:181:VAL:HG11	2.02	0.41
1:g:394:ILE:HG13	1:g:394:ILE:O	2.21	0.41
1:k:132:ILE:HG13	1:k:506:VAL:HG22	2.02	0.41
1:k:177:LEU:HB2	1:k:180:LYS:HG2	2.02	0.41
1:l:344:LYS:HE3	1:l:344:LYS:HB3	1.94	0.41
1:o:132:ILE:HG13	1:o:506:VAL:HG22	2.02	0.41
1:o:394:ILE:HG13	1:o:394:ILE:O	2.21	0.41
1:p:394:ILE:HG13	1:p:394:ILE:O	2.21	0.41
1:q:394:ILE:HG13	1:q:394:ILE:O	2.20	0.41
1:s:153:HIS:ND1	1:s:229:HIS:HE1	2.18	0.41
1:s:223:ILE:HG22	1:s:225:GLU:H	1.85	0.41
1:t:59:ASN:HD22	1:t:102:HIS:HA	1.84	0.41
1:v:177:LEU:HB2	1:v:180:LYS:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:407:GLN:HB3	1:v:429:MET:HG2	2.01	0.41
1:x:177:LEU:HB2	1:x:180:LYS:HG2	2.02	0.41
1:y:66:PRO:HD2	1:y:68:TYR:CZ	2.54	0.41
1:z:215:ILE:HD13	1:2:398:MET:HE1	2.02	0.41
1:z:309:ASN:HB3	1:z:320:LEU:HD12	2.03	0.41
1:z:394:ILE:HG13	1:z:394:ILE:O	2.21	0.41
1:2:443:TRP:NE1	1:2:468:ASP:OD2	2.24	0.41
1:5:92:GLY:O	1:5:485:VAL:N	2.38	0.41
1:5:360:VAL:HG12	1:7:296:SER:HB3	2.02	0.41
1:5:407:GLN:HB3	1:5:429:MET:HG2	2.01	0.41
1:6:393:ASP:OD1	1:6:394:ILE:N	2.53	0.41
1:A:153:HIS:ND1	1:A:229:HIS:HE1	2.18	0.41
1:A:177:LEU:HB2	1:A:180:LYS:HG2	2.02	0.41
1:B:132:ILE:HG13	1:B:506:VAL:HG22	2.02	0.41
1:C:360:VAL:HG12	1:M:296:SER:HB3	2.02	0.41
1:F:309:ASN:HB3	1:F:320:LEU:HD12	2.02	0.41
1:G:66:PRO:HD2	1:G:68:TYR:CZ	2.55	0.41
1:H:92:GLY:O	1:H:485:VAL:N	2.38	0.41
1:H:296:SER:HB3	1:W:360:VAL:HG12	2.02	0.41
1:K:394:ILE:O	1:K:394:ILE:HG13	2.21	0.41
1:M:309:ASN:HB3	1:M:320:LEU:HD12	2.03	0.41
1:N:309:ASN:HB3	1:N:320:LEU:HD12	2.03	0.41
1:O:132:ILE:HG13	1:O:506:VAL:HG22	2.02	0.41
1:Q:177:LEU:HB2	1:Q:180:LYS:HG2	2.02	0.41
1:R:394:ILE:HG13	1:R:394:ILE:O	2.20	0.41
1:R:491:PRO:HG3	1:V:181:VAL:HG11	2.02	0.41
1:T:334:ALA:O	1:T:348:GLN:NE2	2.38	0.41
1:U:309:ASN:HB3	1:U:320:LEU:HD12	2.03	0.41
1:V:394:ILE:HG13	1:V:394:ILE:O	2.21	0.41
1:W:398:MET:HE1	1:Y:215:ILE:HD13	2.02	0.41
1:X:275:ARG:HH22	1:X:414:ILE:CG1	2.25	0.41
1:X:418:ASN:O	1:X:419:THR:OG1	2.33	0.41
1:X:491:PRO:HG3	1:f:181:VAL:HG11	2.01	0.41
1:Y:66:PRO:HD2	1:Y:68:TYR:CZ	2.55	0.41
1:a:394:ILE:O	1:a:394:ILE:HG13	2.21	0.41
1:a:444:ASP:OD2	1:a:569:LYS:NZ	2.47	0.41
1:c:153:HIS:ND1	1:c:229:HIS:HE1	2.18	0.41
1:d:527:ARG:HH11	1:n:544:THR:HG1	1.62	0.41
1:e:59:ASN:HD22	1:e:102:HIS:HA	1.84	0.41
1:e:223:ILE:HG22	1:e:225:GLU:H	1.85	0.41
1:g:59:ASN:HD22	1:g:102:HIS:HA	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:360:VAL:HG12	1:h:296:SER:HB3	2.03	0.41
1:h:393:ASP:OD1	1:h:394:ILE:N	2.53	0.41
1:i:66:PRO:HD2	1:i:68:TYR:CZ	2.55	0.41
1:i:132:ILE:HG13	1:i:506:VAL:HG22	2.02	0.41
1:j:444:ASP:OD2	1:j:569:LYS:NZ	2.47	0.41
1:l:177:LEU:HB2	1:l:180:LYS:HG2	2.02	0.41
1:m:223:ILE:HG22	1:m:225:GLU:H	1.85	0.41
1:n:126:LYS:HG2	1:n:128:TYR:HD2	1.84	0.41
1:n:153:HIS:ND1	1:n:229:HIS:HE1	2.18	0.41
1:n:309:ASN:HB3	1:n:320:LEU:HD12	2.03	0.41
1:o:393:ASP:OD1	1:o:394:ILE:N	2.53	0.41
1:q:126:LYS:HG2	1:q:128:TYR:HD2	1.84	0.41
1:s:309:ASN:HB3	1:s:320:LEU:HD12	2.03	0.41
1:t:66:PRO:HD2	1:t:68:TYR:CZ	2.55	0.41
1:t:393:ASP:OD1	1:t:394:ILE:N	2.53	0.41
1:u:132:ILE:HG13	1:u:506:VAL:HG22	2.02	0.41
1:u:443:TRP:NE1	1:u:468:ASP:OD2	2.24	0.41
1:v:153:HIS:ND1	1:v:229:HIS:HE1	2.18	0.41
1:w:400:ARG:NH1	1:w:444:ASP:O	2.46	0.41
1:y:309:ASN:HB3	1:y:320:LEU:HD12	2.03	0.41
1:2:177:LEU:HB2	1:2:180:LYS:HG2	2.02	0.41
1:3:132:ILE:HG13	1:3:506:VAL:HG22	2.02	0.41
1:4:394:ILE:O	1:4:394:ILE:HG13	2.21	0.41
1:5:296:SER:HB3	1:6:360:VAL:HG12	2.02	0.41
1:7:54:ARG:NH1	1:7:515:GLU:OE2	2.48	0.41
1:7:66:PRO:HD2	1:7:68:TYR:CZ	2.55	0.41
1:D:59:ASN:HD22	1:D:102:HIS:HA	1.84	0.41
1:H:407:GLN:HB3	1:H:429:MET:HG2	2.01	0.41
1:I:126:LYS:HG2	1:I:128:TYR:HD2	1.84	0.41
1:I:393:ASP:OD1	1:I:394:ILE:N	2.53	0.41
1:I:443:TRP:NE1	1:I:468:ASP:OD2	2.24	0.41
1:J:181:VAL:HG11	1:a:491:PRO:HG3	2.02	0.41
1:L:59:ASN:HD22	1:L:102:HIS:HA	1.84	0.41
1:N:66:PRO:HD2	1:N:68:TYR:CZ	2.55	0.41
1:O:444:ASP:OD2	1:O:569:LYS:NZ	2.47	0.41
1:Q:132:ILE:HG13	1:Q:506:VAL:HG22	2.02	0.41
1:R:215:ILE:HD13	1:U:398:MET:HE1	2.02	0.41
1:S:181:VAL:HG11	1:d:491:PRO:HG3	2.02	0.41
1:S:394:ILE:HG13	1:S:394:ILE:O	2.20	0.41
1:T:223:ILE:HG22	1:T:225:GLU:H	1.85	0.41
1:T:309:ASN:HB3	1:T:320:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:177:LEU:HB2	1:V:180:LYS:HG2	2.02	0.41
1:b:177:LEU:HB2	1:b:180:LYS:HG2	2.02	0.41
1:g:400:ARG:NH1	1:g:444:ASP:O	2.46	0.41
1:h:309:ASN:HB3	1:h:320:LEU:HD12	2.03	0.41
1:i:309:ASN:HB3	1:i:320:LEU:HD12	2.03	0.41
1:l:132:ILE:HG13	1:l:506:VAL:HG22	2.02	0.41
1:l:444:ASP:OD2	1:l:569:LYS:NZ	2.47	0.41
1:m:153:HIS:ND1	1:m:229:HIS:HE1	2.18	0.41
1:m:177:LEU:HB2	1:m:180:LYS:HG2	2.02	0.41
1:m:309:ASN:HB3	1:m:320:LEU:HD12	2.03	0.41
1:n:177:LEU:HB2	1:n:180:LYS:HG2	2.02	0.41
1:o:153:HIS:ND1	1:o:229:HIS:HE1	2.18	0.41
1:o:275:ARG:HH22	1:o:414:ILE:CG1	2.25	0.41
1:o:418:ASN:O	1:o:419:THR:OG1	2.33	0.41
1:p:177:LEU:HB2	1:p:180:LYS:HG2	2.02	0.41
1:q:215:ILE:HD13	1:s:398:MET:HE1	2.02	0.41
1:r:394:ILE:HG13	1:r:394:ILE:O	2.21	0.41
1:t:394:ILE:HG13	1:t:394:ILE:O	2.21	0.41
1:u:126:LYS:HG2	1:u:128:TYR:HD2	1.84	0.41
1:u:177:LEU:HB2	1:u:180:LYS:HG2	2.02	0.41
1:u:309:ASN:HB3	1:u:320:LEU:HD12	2.03	0.41
1:x:126:LYS:HG2	1:x:128:TYR:HD2	1.84	0.41
1:1:132:ILE:HG13	1:1:506:VAL:HG22	2.02	0.41
1:1:531:LYS:HA	1:1:531:LYS:HD2	1.76	0.41
1:3:394:ILE:O	1:3:394:ILE:HG13	2.21	0.41
1:4:132:ILE:HG13	1:4:506:VAL:HG22	2.02	0.41
1:A:360:VAL:HG12	1:I:296:SER:HB3	2.03	0.41
1:D:444:ASP:OD2	1:D:569:LYS:NZ	2.47	0.41
1:E:59:ASN:HD22	1:E:102:HIS:HA	1.84	0.41
1:E:223:ILE:HG22	1:E:225:GLU:H	1.85	0.41
1:E:309:ASN:HB3	1:E:320:LEU:HD12	2.02	0.41
1:F:59:ASN:HD22	1:F:102:HIS:HA	1.84	0.41
1:G:394:ILE:O	1:G:394:ILE:HG13	2.21	0.41
1:I:309:ASN:HB3	1:I:320:LEU:HD12	2.03	0.41
1:J:132:ILE:HG13	1:J:506:VAL:HG22	2.02	0.41
1:N:121:LYS:HD2	1:N:121:LYS:HA	1.79	0.41
1:N:132:ILE:HG13	1:N:506:VAL:HG22	2.02	0.41
1:Q:121:LYS:HA	1:Q:121:LYS:HD2	1.79	0.41
1:Q:131:GLN:HE22	1:S:490:ILE:HD13	1.86	0.41
1:Q:394:ILE:HG13	1:Q:394:ILE:O	2.21	0.41
1:T:153:HIS:ND1	1:T:229:HIS:HE1	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:177:LEU:HB2	1:T:180:LYS:HG2	2.02	0.41
1:T:443:TRP:NE1	1:T:468:ASP:OD2	2.24	0.41
1:V:398:MET:HE1	1:e:215:ILE:HD13	2.02	0.41
1:Y:275:ARG:HH22	1:Y:414:ILE:CG1	2.25	0.41
1:Z:393:ASP:OD1	1:Z:394:ILE:N	2.53	0.41
1:b:276:ASN:OD1	1:b:276:ASN:N	2.45	0.41
1:c:59:ASN:HD22	1:c:102:HIS:HA	1.84	0.41
1:c:215:ILE:HD13	1:p:398:MET:HE1	2.02	0.41
1:c:223:ILE:HG22	1:c:225:GLU:H	1.85	0.41
1:c:275:ARG:HH22	1:c:414:ILE:CG1	2.25	0.41
1:d:153:HIS:ND1	1:d:229:HIS:HE1	2.18	0.41
1:d:177:LEU:HB2	1:d:180:LYS:HG2	2.02	0.41
1:e:153:HIS:ND1	1:e:229:HIS:HE1	2.18	0.41
1:f:177:LEU:HB2	1:f:180:LYS:HG2	2.02	0.41
1:f:394:ILE:O	1:f:394:ILE:HG13	2.21	0.41
1:g:491:PRO:HG3	1:k:181:VAL:HG11	2.01	0.41
1:k:59:ASN:HD22	1:k:102:HIS:HA	1.84	0.41
1:m:394:ILE:O	1:m:394:ILE:HG13	2.21	0.41
1:q:440:ASN:ND2	1:r:468:ASP:O	2.54	0.41
1:s:400:ARG:NH1	1:s:444:ASP:O	2.46	0.41
1:u:393:ASP:OD1	1:u:394:ILE:N	2.53	0.41
1:w:309:ASN:HB3	1:w:320:LEU:HD12	2.03	0.41
1:w:360:VAL:HG12	1:y:296:SER:HB3	2.03	0.41
1:x:132:ILE:HG13	1:x:506:VAL:HG22	2.02	0.41
1:y:59:ASN:HD22	1:y:102:HIS:HA	1.84	0.41
1:z:59:ASN:HD22	1:z:102:HIS:HA	1.84	0.41
1:z:360:VAL:HG12	1:2:296:SER:HB3	2.02	0.41
1:2:181:VAL:HG11	1:3:491:PRO:HG3	2.02	0.41
1:A:132:ILE:HG13	1:A:506:VAL:HG22	2.02	0.41
1:A:215:ILE:HD13	1:I:398:MET:HE1	2.02	0.41
1:A:309:ASN:HB3	1:A:320:LEU:HD12	2.03	0.41
1:A:410:THR:H	1:I:342:GLN:HE22	1.69	0.41
1:A:490:ILE:HD13	1:B:131:GLN:HE22	1.86	0.41
1:B:296:SER:HB3	1:J:360:VAL:HG12	2.02	0.41
1:B:440:ASN:ND2	1:J:468:ASP:O	2.54	0.41
1:D:296:SER:HB3	1:N:360:VAL:HG12	2.02	0.41
1:E:153:HIS:ND1	1:E:229:HIS:HE1	2.18	0.41
1:E:360:VAL:HG12	1:F:296:SER:HB3	2.03	0.41
1:F:215:ILE:HD13	1:Q:398:MET:HE1	2.02	0.41
1:I:177:LEU:HB2	1:I:180:LYS:HG2	2.02	0.41
1:J:296:SER:HB3	1:L:360:VAL:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:360:VAL:HG12	1:b:296:SER:HB3	2.02	0.41
1:N:440:ASN:ND2	1:P:468:ASP:O	2.54	0.41
1:O:296:SER:HB3	1:m:360:VAL:HG12	2.03	0.41
1:O:398:MET:HE1	1:m:215:ILE:HD13	2.02	0.41
1:Q:309:ASN:HB3	1:Q:320:LEU:HD12	2.03	0.41
1:R:440:ASN:ND2	1:S:468:ASP:O	2.54	0.41
1:S:132:ILE:HG13	1:S:506:VAL:HG22	2.02	0.41
1:T:215:ILE:HD13	1:l:398:MET:HE1	2.02	0.41
1:T:360:VAL:HG12	1:l:296:SER:HB3	2.03	0.41
1:T:394:ILE:O	1:T:394:ILE:HG13	2.21	0.41
1:U:121:LYS:HA	1:U:121:LYS:HD2	1.80	0.41
1:U:444:ASP:OD2	1:U:569:LYS:NZ	2.47	0.41
1:W:59:ASN:HD22	1:W:102:HIS:HA	1.84	0.41
1:X:153:HIS:ND1	1:X:229:HIS:HE1	2.18	0.41
1:X:443:TRP:NE1	1:X:468:ASP:OD2	2.24	0.41
1:Y:54:ARG:NH1	1:Y:515:GLU:OE2	2.48	0.41
1:Y:444:ASP:OD2	1:Y:569:LYS:NZ	2.47	0.41
1:b:181:VAL:HG11	1:o:491:PRO:HG3	2.01	0.41
1:b:394:ILE:HG13	1:b:394:ILE:O	2.21	0.41
1:c:360:VAL:HG12	1:p:296:SER:HB3	2.03	0.41
1:d:223:ILE:HG22	1:d:225:GLU:H	1.85	0.41
1:d:296:SER:HB3	1:l:360:VAL:HG12	2.03	0.41
1:f:296:SER:HB3	1:h:360:VAL:HG12	2.02	0.41
1:f:393:ASP:OD1	1:f:394:ILE:N	2.53	0.41
1:i:121:LYS:HD2	1:i:121:LYS:HA	1.79	0.41
1:i:360:VAL:HG12	1:k:296:SER:HB3	2.02	0.41
1:i:398:MET:HE1	1:j:215:ILE:HD13	2.02	0.41
1:i:440:ASN:ND2	1:j:468:ASP:O	2.54	0.41
1:j:258:LEU:HA	1:j:258:LEU:HD13	1.89	0.41
1:j:394:ILE:HG13	1:j:394:ILE:O	2.21	0.41
1:l:443:TRP:NE1	1:l:468:ASP:OD2	2.24	0.41
1:m:400:ARG:NH1	1:m:444:ASP:O	2.46	0.41
1:n:491:PRO:HG3	1:r:181:VAL:HG11	2.02	0.41
1:r:132:ILE:HG13	1:r:506:VAL:HG22	2.02	0.41
1:u:296:SER:HB3	1:v:360:VAL:HG12	2.03	0.41
1:u:342:GLN:HE22	1:v:410:THR:H	1.69	0.41
1:u:398:MET:HE1	1:v:215:ILE:HD13	2.02	0.41
1:v:132:ILE:HG13	1:v:506:VAL:HG22	2.02	0.41
1:v:309:ASN:HB3	1:v:320:LEU:HD12	2.03	0.41
1:v:334:ALA:O	1:v:348:GLN:NE2	2.38	0.41
1:w:59:ASN:HD22	1:w:102:HIS:HA	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:153:HIS:ND1	1:w:229:HIS:HE1	2.18	0.41
1:w:223:ILE:HG22	1:w:225:GLU:H	1.85	0.41
1:x:309:ASN:HB3	1:x:320:LEU:HD12	2.02	0.41
1:x:394:ILE:O	1:x:394:ILE:HG13	2.21	0.41
1:1:121:LYS:HA	1:1:121:LYS:HD2	1.80	0.41
1:1:296:SER:HB3	1:2:360:VAL:HG12	2.02	0.41
1:1:440:ASN:ND2	1:2:468:ASP:O	2.54	0.41
1:2:132:ILE:HG13	1:2:506:VAL:HG22	2.02	0.41
1:4:443:TRP:NE1	1:4:468:ASP:OD2	2.24	0.41
1:5:309:ASN:HB3	1:5:320:LEU:HD12	2.02	0.41
1:8:393:ASP:OD1	1:8:394:ILE:N	2.53	0.41
1:A:440:ASN:ND2	1:G:469:SER:HA	2.34	0.41
1:B:393:ASP:OD1	1:B:394:ILE:N	2.53	0.41
1:C:400:ARG:NH1	1:C:444:ASP:O	2.46	0.41
1:C:468:ASP:O	1:M:440:ASN:ND2	2.54	0.41
1:H:309:ASN:HB3	1:H:320:LEU:HD12	2.02	0.41
1:I:131:GLN:HE22	1:J:490:ILE:HD13	1.86	0.41
1:I:148:LEU:O	1:I:149:THR:OG1	2.28	0.41
1:M:490:ILE:HD13	1:c:131:GLN:HE22	1.86	0.41
1:N:398:MET:HE1	1:P:215:ILE:HD13	2.02	0.41
1:T:400:ARG:NH1	1:T:444:ASP:O	2.46	0.41
1:V:296:SER:HB3	1:e:360:VAL:HG12	2.03	0.41
1:W:177:LEU:HB2	1:W:180:LYS:HG2	2.02	0.41
1:Z:258:LEU:HA	1:Z:258:LEU:HD13	1.89	0.41
1:Z:309:ASN:HB3	1:Z:320:LEU:HD12	2.03	0.41
1:Z:490:ILE:HD13	1:a:131:GLN:HE22	1.86	0.41
1:b:393:ASP:OD1	1:b:394:ILE:N	2.53	0.41
1:e:131:GLN:HE22	1:h:490:ILE:HD13	1.86	0.41
1:m:334:ALA:O	1:m:348:GLN:NE2	2.38	0.41
1:n:223:ILE:HG22	1:n:225:GLU:H	1.85	0.41
1:s:444:ASP:OD2	1:s:569:LYS:NZ	2.47	0.41
1:t:544:THR:HG1	1:5:527:ARG:HH11	1.66	0.41
1:v:490:ILE:HD13	1:1:131:GLN:HE22	1.86	0.41
1:z:490:ILE:HD13	1:4:131:GLN:HE22	1.86	0.41
1:1:54:ARG:NH1	1:1:515:GLU:OE2	2.48	0.41
1:1:393:ASP:OD1	1:1:394:ILE:N	2.53	0.41
1:4:400:ARG:NH1	1:4:444:ASP:O	2.46	0.41
1:6:59:ASN:HD22	1:6:102:HIS:HA	1.84	0.41
1:6:177:LEU:HB2	1:6:180:LYS:HG2	2.02	0.41
1:7:444:ASP:OD2	1:7:569:LYS:NZ	2.47	0.41
1:8:309:ASN:HB3	1:8:320:LEU:HD12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:334:ALA:O	1:B:348:GLN:NE2	2.38	0.40
1:C:444:ASP:OD2	1:C:569:LYS:NZ	2.47	0.40
1:D:360:VAL:HG12	1:P:296:SER:HB3	2.02	0.40
1:F:131:GLN:HE22	1:G:490:ILE:HD13	1.86	0.40
1:F:394:ILE:O	1:F:394:ILE:HG13	2.21	0.40
1:G:177:LEU:HB2	1:G:180:LYS:HG2	2.02	0.40
1:G:296:SER:HB3	1:I:360:VAL:HG12	2.03	0.40
1:H:393:ASP:OD1	1:H:394:ILE:N	2.53	0.40
1:J:440:ASN:ND2	1:L:468:ASP:O	2.54	0.40
1:K:131:GLN:HE22	1:L:490:ILE:HD13	1.86	0.40
1:K:393:ASP:OD1	1:K:394:ILE:N	2.53	0.40
1:O:360:VAL:HG12	1:n:296:SER:HB3	2.03	0.40
1:P:394:ILE:HG13	1:P:394:ILE:O	2.21	0.40
1:S:440:ASN:ND2	1:U:468:ASP:O	2.54	0.40
1:U:54:ARG:NH1	1:U:515:GLU:OE2	2.48	0.40
1:U:443:TRP:NE1	1:U:468:ASP:OD2	2.24	0.40
1:V:490:ILE:HD13	1:W:131:GLN:HE22	1.86	0.40
1:b:443:TRP:NE1	1:b:468:ASP:OD2	2.24	0.40
1:c:468:ASP:O	1:p:440:ASN:ND2	2.55	0.40
1:d:393:ASP:OD1	1:d:394:ILE:N	2.53	0.40
1:f:276:ASN:OD1	1:f:276:ASN:N	2.45	0.40
1:g:161:GLN:HB3	1:h:524:LYS:HG2	2.01	0.40
1:n:121:LYS:HD2	1:n:121:LYS:HA	1.79	0.40
1:n:393:ASP:OD1	1:n:394:ILE:N	2.53	0.40
1:p:490:ILE:HD13	1:6:131:GLN:HE22	1.86	0.40
1:r:440:ASN:ND2	1:s:468:ASP:O	2.54	0.40
1:s:379:SER:OG	1:s:451:ASP:OD2	2.26	0.40
1:t:177:LEU:HB2	1:t:180:LYS:HG2	2.02	0.40
1:t:296:SER:HB3	1:u:360:VAL:HG12	2.03	0.40
1:t:469:SER:HA	1:v:440:ASN:ND2	2.34	0.40
1:u:148:LEU:O	1:u:149:THR:OG1	2.28	0.40
1:v:379:SER:OG	1:v:451:ASP:OD2	2.26	0.40
1:x:398:MET:HE1	1:y:215:ILE:HD13	2.02	0.40
1:y:394:ILE:O	1:y:394:ILE:HG13	2.21	0.40
1:z:468:ASP:O	1:2:440:ASN:ND2	2.54	0.40
1:3:131:GLN:HE22	1:8:490:ILE:HD13	1.86	0.40
1:3:468:ASP:O	1:4:440:ASN:ND2	2.55	0.40
1:4:393:ASP:OD1	1:4:394:ILE:N	2.53	0.40
1:5:393:ASP:OD1	1:5:394:ILE:N	2.53	0.40
1:6:394:ILE:O	1:6:394:ILE:HG13	2.21	0.40
1:B:534:VAL:CG1	1:I:528:PRO:HB2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:440:ASN:ND2	1:b:468:ASP:O	2.55	0.40
1:D:309:ASN:HB3	1:D:320:LEU:HD12	2.02	0.40
1:E:398:MET:HE1	1:Q:215:ILE:HD13	2.02	0.40
1:G:131:GLN:HE22	1:W:490:ILE:HD13	1.87	0.40
1:I:275:ARG:HH22	1:I:414:ILE:CG1	2.25	0.40
1:J:131:GLN:HE22	1:a:490:ILE:HD13	1.86	0.40
1:K:296:SER:HB3	1:a:360:VAL:HG12	2.02	0.40
1:K:309:ASN:HB3	1:K:320:LEU:HD12	2.03	0.40
1:K:440:ASN:ND2	1:a:468:ASP:O	2.55	0.40
1:N:334:ALA:O	1:N:348:GLN:NE2	2.38	0.40
1:O:468:ASP:O	1:n:440:ASN:ND2	2.55	0.40
1:R:468:ASP:O	1:U:440:ASN:ND2	2.54	0.40
1:U:131:GLN:HE22	1:e:490:ILE:HD13	1.86	0.40
1:V:440:ASN:ND2	1:e:468:ASP:O	2.55	0.40
1:W:394:ILE:O	1:W:394:ILE:HG13	2.21	0.40
1:X:468:ASP:O	1:e:440:ASN:ND2	2.55	0.40
1:c:490:ILE:HD13	1:s:131:GLN:HE22	1.86	0.40
1:d:121:LYS:HD2	1:d:121:LYS:HA	1.79	0.40
1:e:177:LEU:HB2	1:e:180:LYS:HG2	2.02	0.40
1:i:334:ALA:O	1:i:348:GLN:NE2	2.38	0.40
1:j:121:LYS:HA	1:j:121:LYS:HD2	1.79	0.40
1:j:296:SER:HB3	1:k:360:VAL:HG12	2.03	0.40
1:o:440:ASN:ND2	1:p:468:ASP:O	2.54	0.40
1:q:468:ASP:O	1:s:440:ASN:ND2	2.54	0.40
1:r:490:ILE:HD13	1:x:131:GLN:HE22	1.86	0.40
1:t:440:ASN:ND2	1:u:468:ASP:O	2.55	0.40
1:t:490:ILE:HD13	1:y:131:GLN:HE22	1.86	0.40
1:u:131:GLN:HE22	1:2:490:ILE:HD13	1.86	0.40
1:x:440:ASN:ND2	1:y:468:ASP:O	2.55	0.40
1:2:131:GLN:HE22	1:3:490:ILE:HD13	1.86	0.40
1:3:360:VAL:HG12	1:4:296:SER:HB3	2.02	0.40
1:4:309:ASN:HB3	1:4:320:LEU:HD12	2.03	0.40
1:6:153:HIS:ND1	1:6:229:HIS:HE1	2.18	0.40
1:7:275:ARG:HH22	1:7:414:ILE:CG1	2.25	0.40
1:A:59:ASN:HD22	1:A:102:HIS:HA	1.84	0.40
1:A:131:GLN:HE22	1:E:490:ILE:HD13	1.86	0.40
1:A:379:SER:OG	1:A:451:ASP:OD2	2.26	0.40
1:B:54:ARG:NH1	1:B:515:GLU:OE2	2.48	0.40
1:E:177:LEU:HB2	1:E:180:LYS:HG2	2.02	0.40
1:E:468:ASP:O	1:F:440:ASN:ND2	2.55	0.40
1:F:490:ILE:HD13	1:R:131:GLN:HE22	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:440:ASN:ND2	1:I:468:ASP:O	2.55	0.40
1:H:468:ASP:O	1:Y:440:ASN:ND2	2.54	0.40
1:I:394:ILE:O	1:I:394:ILE:HG13	2.21	0.40
1:J:83:PHE:O	1:J:194:GLY:N	2.46	0.40
1:K:400:ARG:NH1	1:K:444:ASP:O	2.46	0.40
1:K:468:ASP:O	1:8:440:ASN:ND2	2.55	0.40
1:O:440:ASN:ND2	1:m:468:ASP:O	2.55	0.40
1:R:490:ILE:HD13	1:V:131:GLN:HE22	1.86	0.40
1:V:393:ASP:OD1	1:V:394:ILE:N	2.53	0.40
1:V:418:ASN:O	1:V:419:THR:OG1	2.33	0.40
1:V:468:ASP:O	1:X:440:ASN:ND2	2.54	0.40
1:W:153:HIS:ND1	1:W:229:HIS:HE1	2.18	0.40
1:W:311:GLN:O	1:W:312:SER:OG	2.25	0.40
1:Z:440:ASN:ND2	1:4:468:ASP:O	2.55	0.40
1:c:177:LEU:HB2	1:c:180:LYS:HG2	2.02	0.40
1:c:440:ASN:ND2	1:o:468:ASP:O	2.55	0.40
1:d:440:ASN:ND2	1:l:468:ASP:O	2.55	0.40
1:g:443:TRP:NE1	1:g:468:ASP:OD2	2.24	0.40
1:j:440:ASN:ND2	1:k:468:ASP:O	2.54	0.40
1:k:309:ASN:HB3	1:k:320:LEU:HD12	2.03	0.40
1:l:309:ASN:HB3	1:l:320:LEU:HD12	2.03	0.40
1:p:393:ASP:OD1	1:p:394:ILE:N	2.53	0.40
1:q:296:SER:HB3	1:r:360:VAL:HG12	2.02	0.40
1:t:131:GLN:HE22	1:6:490:ILE:HD13	1.87	0.40
1:u:528:PRO:HB2	1:l:534:VAL:CG1	2.52	0.40
1:v:131:GLN:HE22	1:w:490:ILE:HD13	1.86	0.40
1:w:177:LEU:HB2	1:w:180:LYS:HG2	2.02	0.40
1:w:296:SER:HB3	1:x:360:VAL:HG12	2.03	0.40
1:w:398:MET:HE1	1:x:215:ILE:HD13	2.02	0.40
1:w:468:ASP:O	1:y:440:ASN:ND2	2.54	0.40
1:B:531:LYS:HA	1:B:531:LYS:HD2	1.76	0.40
1:C:490:ILE:HD13	1:D:131:GLN:HE22	1.86	0.40
1:D:418:ASN:O	1:D:419:THR:OG1	2.33	0.40
1:E:296:SER:HB3	1:Q:360:VAL:HG12	2.03	0.40
1:G:400:ARG:NH1	1:G:444:ASP:O	2.46	0.40
1:H:166:GLN:NE2	1:H:482:THR:HG21	2.37	0.40
1:H:398:MET:HE1	1:W:215:ILE:HD13	2.02	0.40
1:M:468:ASP:O	1:b:440:ASN:ND2	2.55	0.40
1:O:443:TRP:NE1	1:O:468:ASP:OD2	2.24	0.40
1:O:490:ILE:HD13	1:d:131:GLN:HE22	1.86	0.40
1:S:534:VAL:CG1	1:T:528:PRO:HB2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:132:ILE:HG13	1:T:506:VAL:HG22	2.02	0.40
1:T:468:ASP:O	1:l:440:ASN:ND2	2.55	0.40
1:V:309:ASN:HB3	1:V:320:LEU:HD12	2.03	0.40
1:W:132:ILE:HG13	1:W:506:VAL:HG22	2.02	0.40
1:W:534:VAL:CG1	1:X:528:PRO:HB2	2.52	0.40
1:Z:166:GLN:NE2	1:Z:482:THR:HG21	2.37	0.40
1:a:379:SER:OG	1:a:451:ASP:OD2	2.26	0.40
1:f:440:ASN:ND2	1:h:468:ASP:O	2.54	0.40
1:g:469:SER:HA	1:h:440:ASN:ND2	2.36	0.40
1:m:132:ILE:HG13	1:m:506:VAL:HG22	2.02	0.40
1:m:528:PRO:HB2	1:r:534:VAL:CG1	2.52	0.40
1:o:528:PRO:HB2	1:6:534:VAL:CG1	2.52	0.40
1:p:131:GLN:HE22	1:q:490:ILE:HD13	1.86	0.40
1:p:309:ASN:HB3	1:p:320:LEU:HD12	2.03	0.40
1:q:309:ASN:HB3	1:q:320:LEU:HD12	2.02	0.40
1:w:440:ASN:ND2	1:x:468:ASP:O	2.54	0.40
1:x:296:SER:HB3	1:y:360:VAL:HG12	2.03	0.40
1:1:334:ALA:O	1:1:348:GLN:NE2	2.38	0.40
1:2:258:LEU:HA	1:2:258:LEU:HD13	1.89	0.40
1:3:379:SER:OG	1:3:451:ASP:OD2	2.26	0.40
1:5:166:GLN:NE2	1:5:482:THR:HG21	2.37	0.40
1:5:468:ASP:O	1:7:440:ASN:ND2	2.54	0.40
1:8:166:GLN:NE2	1:8:482:THR:HG21	2.37	0.40
1:A:88:LYS:HG3	1:I:265:LEU:HD11	2.04	0.40
1:A:265:LEU:HD11	1:G:88:LYS:HG3	2.04	0.40
1:C:528:PRO:HB2	1:L:534:VAL:CG1	2.52	0.40
1:D:468:ASP:O	1:P:440:ASN:ND2	2.54	0.40
1:F:166:GLN:NE2	1:F:482:THR:HG21	2.37	0.40
1:F:410:THR:H	1:Q:342:GLN:HE22	1.69	0.40
1:F:468:ASP:O	1:Q:440:ASN:ND2	2.55	0.40
1:J:534:VAL:CG1	1:K:528:PRO:HB2	2.52	0.40
1:K:443:TRP:NE1	1:K:468:ASP:OD2	2.24	0.40
1:N:534:VAL:CG1	1:O:528:PRO:HB2	2.52	0.40
1:O:309:ASN:HB3	1:O:320:LEU:HD12	2.03	0.40
1:P:166:GLN:NE2	1:P:482:THR:HG21	2.37	0.40
1:R:296:SER:HB3	1:S:360:VAL:HG12	2.02	0.40
1:R:309:ASN:HB3	1:R:320:LEU:HD12	2.03	0.40
1:U:166:GLN:NE2	1:U:482:THR:HG21	2.37	0.40
1:W:309:ASN:HB3	1:W:320:LEU:HD12	2.02	0.40
1:X:444:ASP:OD2	1:X:569:LYS:NZ	2.47	0.40
1:Y:534:VAL:CG1	1:Z:528:PRO:HB2	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:54:ARG:NH1	1:Z:515:GLU:OE2	2.48	0.40
1:c:166:GLN:NE2	1:c:482:THR:HG21	2.37	0.40
1:d:166:GLN:NE2	1:d:482:THR:HG21	2.37	0.40
1:d:544:THR:HG1	1:n:527:ARG:HH11	1.63	0.40
1:e:166:GLN:NE2	1:e:482:THR:HG21	2.37	0.40
1:f:490:ILE:HD13	1:z:131:GLN:HE22	1.86	0.40
1:i:534:VAL:CG1	1:l:528:PRO:HB2	2.52	0.40
1:j:166:GLN:NE2	1:j:482:THR:HG21	2.37	0.40
1:n:166:GLN:NE2	1:n:482:THR:HG21	2.37	0.40
1:s:166:GLN:NE2	1:s:482:THR:HG21	2.37	0.40
1:t:534:VAL:CG1	1:5:528:PRO:HB2	2.52	0.40
1:u:265:LEU:HD11	1:v:88:LYS:HG3	2.04	0.40
1:u:394:ILE:O	1:u:394:ILE:HG13	2.21	0.40
1:z:258:LEU:HA	1:z:258:LEU:HD13	1.89	0.40
1:2:534:VAL:CG1	1:4:528:PRO:HB2	2.52	0.40
1:6:166:GLN:NE2	1:6:482:THR:HG21	2.37	0.40
1:8:258:LEU:HA	1:8:258:LEU:HD13	1.89	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	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	2	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	3	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	4	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	5	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	6	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	7	536/571 (94%)	525 (98%)	11 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	8	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	A	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	B	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	C	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	D	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	E	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	F	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	G	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	H	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	I	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	J	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	K	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	L	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	M	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	N	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	O	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	P	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	Q	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	R	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	S	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	T	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	U	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	V	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	W	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	X	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	Y	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	Z	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	a	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	b	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	c	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	d	536/571 (94%)	525 (98%)	11 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	e	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	f	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	g	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	h	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	i	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	j	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	k	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	l	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	m	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	n	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	o	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	p	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	q	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	r	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	s	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	t	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	u	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	v	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	w	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	x	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	y	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
1	z	536/571 (94%)	525 (98%)	11 (2%)	0	100	100
All	All	32160/34260 (94%)	31500 (98%)	660 (2%)	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	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	2	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	3	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	4	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	5	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	6	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	7	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	8	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	A	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	B	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	C	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	D	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	E	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	F	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	G	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	H	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	I	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	J	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	K	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	L	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	M	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	N	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	O	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	P	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	Q	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	R	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	S	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	T	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	U	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	V	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	W	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	X	468/484 (97%)	466 (100%)	2 (0%)	89	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Y	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	Z	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	a	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	b	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	c	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	d	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	e	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	f	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	g	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	h	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	i	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	j	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	k	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	l	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	m	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	n	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	o	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	p	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	q	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	r	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	s	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	t	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	u	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	v	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	w	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	x	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	y	468/484 (97%)	466 (100%)	2 (0%)	89	96
1	z	468/484 (97%)	466 (100%)	2 (0%)	89	96
All	All	28080/29040 (97%)	27960 (100%)	120 (0%)	88	96

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

Mol	Chain	Res	Type
1	A	138	LEU
1	A	462	ASP
1	B	138	LEU
1	B	462	ASP
1	C	138	LEU
1	C	462	ASP
1	D	138	LEU
1	D	462	ASP
1	E	138	LEU
1	E	462	ASP
1	F	138	LEU
1	F	462	ASP
1	G	138	LEU
1	G	462	ASP
1	H	138	LEU
1	H	462	ASP
1	I	138	LEU
1	I	462	ASP
1	J	138	LEU
1	J	462	ASP
1	K	138	LEU
1	K	462	ASP
1	L	138	LEU
1	L	462	ASP
1	M	138	LEU
1	M	462	ASP
1	N	138	LEU
1	N	462	ASP
1	O	138	LEU
1	O	462	ASP
1	P	138	LEU
1	P	462	ASP
1	Q	138	LEU
1	Q	462	ASP
1	R	138	LEU
1	R	462	ASP
1	S	138	LEU
1	S	462	ASP
1	T	138	LEU
1	T	462	ASP
1	U	138	LEU
1	U	462	ASP
1	V	138	LEU

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Mol	Chain	Res	Type
1	V	462	ASP
1	W	138	LEU
1	W	462	ASP
1	X	138	LEU
1	X	462	ASP
1	Y	138	LEU
1	Y	462	ASP
1	Z	138	LEU
1	Z	462	ASP
1	a	138	LEU
1	a	462	ASP
1	b	138	LEU
1	b	462	ASP
1	c	138	LEU
1	c	462	ASP
1	d	138	LEU
1	d	462	ASP
1	e	138	LEU
1	e	462	ASP
1	f	138	LEU
1	f	462	ASP
1	g	138	LEU
1	g	462	ASP
1	h	138	LEU
1	h	462	ASP
1	i	138	LEU
1	i	462	ASP
1	j	138	LEU
1	j	462	ASP
1	k	138	LEU
1	k	462	ASP
1	l	138	LEU
1	l	462	ASP
1	m	138	LEU
1	m	462	ASP
1	n	138	LEU
1	n	462	ASP
1	o	138	LEU
1	o	462	ASP
1	p	138	LEU
1	p	462	ASP
1	q	138	LEU

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Mol	Chain	Res	Type
1	q	462	ASP
1	r	138	LEU
1	r	462	ASP
1	s	138	LEU
1	s	462	ASP
1	t	138	LEU
1	t	462	ASP
1	u	138	LEU
1	u	462	ASP
1	v	138	LEU
1	v	462	ASP
1	w	138	LEU
1	w	462	ASP
1	x	138	LEU
1	x	462	ASP
1	y	138	LEU
1	y	462	ASP
1	z	138	LEU
1	z	462	ASP
1	1	138	LEU
1	1	462	ASP
1	2	138	LEU
1	2	462	ASP
1	3	138	LEU
1	3	462	ASP
1	4	138	LEU
1	4	462	ASP
1	5	138	LEU
1	5	462	ASP
1	6	138	LEU
1	6	462	ASP
1	7	138	LEU
1	7	462	ASP
1	8	138	LEU
1	8	462	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (803) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	131	GLN
1	A	139	GLN
1	A	160	HIS

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Mol	Chain	Res	Type
1	A	229	HIS
1	A	250	ASN
1	A	293	ASN
1	A	297	GLN
1	A	311	GLN
1	A	341	GLN
1	A	352	ASN
1	A	440	ASN
1	A	464	HIS
1	A	478	HIS
1	B	131	GLN
1	B	134	GLN
1	B	139	GLN
1	B	160	HIS
1	B	229	HIS
1	B	250	ASN
1	B	293	ASN
1	B	297	GLN
1	B	311	GLN
1	B	341	GLN
1	B	352	ASN
1	B	407	GLN
1	B	440	ASN
1	B	464	HIS
1	B	478	HIS
1	C	131	GLN
1	C	139	GLN
1	C	160	HIS
1	C	229	HIS
1	C	250	ASN
1	C	293	ASN
1	C	297	GLN
1	C	311	GLN
1	C	341	GLN
1	C	352	ASN
1	C	407	GLN
1	C	440	ASN
1	C	464	HIS
1	C	478	HIS
1	D	131	GLN
1	D	139	GLN
1	D	160	HIS

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Mol	Chain	Res	Type
1	D	229	HIS
1	D	250	ASN
1	D	293	ASN
1	D	297	GLN
1	D	311	GLN
1	D	341	GLN
1	D	352	ASN
1	D	407	GLN
1	D	440	ASN
1	D	464	HIS
1	D	478	HIS
1	E	131	GLN
1	E	139	GLN
1	E	160	HIS
1	E	229	HIS
1	E	250	ASN
1	E	293	ASN
1	E	297	GLN
1	E	311	GLN
1	E	341	GLN
1	E	352	ASN
1	E	440	ASN
1	E	464	HIS
1	E	478	HIS
1	F	131	GLN
1	F	139	GLN
1	F	160	HIS
1	F	229	HIS
1	F	250	ASN
1	F	293	ASN
1	F	297	GLN
1	F	311	GLN
1	F	341	GLN
1	F	352	ASN
1	F	440	ASN
1	F	464	HIS
1	F	478	HIS
1	G	131	GLN
1	G	139	GLN
1	G	160	HIS
1	G	229	HIS
1	G	250	ASN

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Mol	Chain	Res	Type
1	G	293	ASN
1	G	297	GLN
1	G	311	GLN
1	G	341	GLN
1	G	352	ASN
1	G	440	ASN
1	G	464	HIS
1	G	478	HIS
1	H	131	GLN
1	H	139	GLN
1	H	160	HIS
1	H	229	HIS
1	H	250	ASN
1	H	293	ASN
1	H	297	GLN
1	H	311	GLN
1	H	341	GLN
1	H	352	ASN
1	H	440	ASN
1	H	464	HIS
1	H	478	HIS
1	I	131	GLN
1	I	139	GLN
1	I	160	HIS
1	I	229	HIS
1	I	250	ASN
1	I	293	ASN
1	I	297	GLN
1	I	311	GLN
1	I	341	GLN
1	I	352	ASN
1	I	440	ASN
1	I	464	HIS
1	I	478	HIS
1	J	131	GLN
1	J	139	GLN
1	J	160	HIS
1	J	229	HIS
1	J	250	ASN
1	J	293	ASN
1	J	297	GLN
1	J	311	GLN

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Mol	Chain	Res	Type
1	J	341	GLN
1	J	352	ASN
1	J	440	ASN
1	J	464	HIS
1	J	478	HIS
1	K	131	GLN
1	K	139	GLN
1	K	160	HIS
1	K	229	HIS
1	K	250	ASN
1	K	293	ASN
1	K	297	GLN
1	K	311	GLN
1	K	341	GLN
1	K	352	ASN
1	K	440	ASN
1	K	464	HIS
1	K	478	HIS
1	L	131	GLN
1	L	139	GLN
1	L	160	HIS
1	L	229	HIS
1	L	250	ASN
1	L	293	ASN
1	L	297	GLN
1	L	311	GLN
1	L	341	GLN
1	L	352	ASN
1	L	440	ASN
1	L	464	HIS
1	L	478	HIS
1	M	131	GLN
1	M	134	GLN
1	M	139	GLN
1	M	160	HIS
1	M	229	HIS
1	M	250	ASN
1	M	293	ASN
1	M	297	GLN
1	M	311	GLN
1	M	341	GLN
1	M	352	ASN

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Mol	Chain	Res	Type
1	M	440	ASN
1	M	464	HIS
1	M	478	HIS
1	N	131	GLN
1	N	139	GLN
1	N	160	HIS
1	N	229	HIS
1	N	250	ASN
1	N	293	ASN
1	N	297	GLN
1	N	311	GLN
1	N	341	GLN
1	N	352	ASN
1	N	440	ASN
1	N	464	HIS
1	N	478	HIS
1	O	131	GLN
1	O	134	GLN
1	O	139	GLN
1	O	160	HIS
1	O	229	HIS
1	O	250	ASN
1	O	293	ASN
1	O	297	GLN
1	O	311	GLN
1	O	341	GLN
1	O	352	ASN
1	O	440	ASN
1	O	464	HIS
1	O	478	HIS
1	P	131	GLN
1	P	134	GLN
1	P	139	GLN
1	P	160	HIS
1	P	229	HIS
1	P	250	ASN
1	P	293	ASN
1	P	297	GLN
1	P	311	GLN
1	P	341	GLN
1	P	352	ASN
1	P	407	GLN

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Mol	Chain	Res	Type
1	P	440	ASN
1	P	464	HIS
1	P	478	HIS
1	Q	131	GLN
1	Q	139	GLN
1	Q	160	HIS
1	Q	229	HIS
1	Q	250	ASN
1	Q	293	ASN
1	Q	297	GLN
1	Q	311	GLN
1	Q	341	GLN
1	Q	352	ASN
1	Q	440	ASN
1	Q	464	HIS
1	Q	478	HIS
1	R	131	GLN
1	R	139	GLN
1	R	160	HIS
1	R	229	HIS
1	R	250	ASN
1	R	293	ASN
1	R	297	GLN
1	R	311	GLN
1	R	341	GLN
1	R	352	ASN
1	R	440	ASN
1	R	464	HIS
1	R	478	HIS
1	S	131	GLN
1	S	139	GLN
1	S	160	HIS
1	S	229	HIS
1	S	250	ASN
1	S	293	ASN
1	S	297	GLN
1	S	311	GLN
1	S	341	GLN
1	S	352	ASN
1	S	440	ASN
1	S	464	HIS
1	S	478	HIS

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Mol	Chain	Res	Type
1	T	131	GLN
1	T	139	GLN
1	T	160	HIS
1	T	229	HIS
1	T	250	ASN
1	T	293	ASN
1	T	297	GLN
1	T	311	GLN
1	T	341	GLN
1	T	352	ASN
1	T	440	ASN
1	T	464	HIS
1	T	478	HIS
1	U	131	GLN
1	U	139	GLN
1	U	160	HIS
1	U	229	HIS
1	U	250	ASN
1	U	293	ASN
1	U	297	GLN
1	U	311	GLN
1	U	341	GLN
1	U	352	ASN
1	U	440	ASN
1	U	464	HIS
1	U	478	HIS
1	V	131	GLN
1	V	139	GLN
1	V	160	HIS
1	V	229	HIS
1	V	250	ASN
1	V	293	ASN
1	V	297	GLN
1	V	311	GLN
1	V	341	GLN
1	V	352	ASN
1	V	440	ASN
1	V	464	HIS
1	V	478	HIS
1	W	131	GLN
1	W	134	GLN
1	W	139	GLN

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Mol	Chain	Res	Type
1	W	160	HIS
1	W	229	HIS
1	W	250	ASN
1	W	293	ASN
1	W	297	GLN
1	W	311	GLN
1	W	341	GLN
1	W	352	ASN
1	W	440	ASN
1	W	464	HIS
1	W	478	HIS
1	X	131	GLN
1	X	139	GLN
1	X	160	HIS
1	X	229	HIS
1	X	250	ASN
1	X	293	ASN
1	X	297	GLN
1	X	311	GLN
1	X	341	GLN
1	X	352	ASN
1	X	407	GLN
1	X	440	ASN
1	X	464	HIS
1	X	478	HIS
1	Y	131	GLN
1	Y	139	GLN
1	Y	160	HIS
1	Y	229	HIS
1	Y	250	ASN
1	Y	293	ASN
1	Y	297	GLN
1	Y	311	GLN
1	Y	341	GLN
1	Y	352	ASN
1	Y	440	ASN
1	Y	464	HIS
1	Y	478	HIS
1	Z	131	GLN
1	Z	139	GLN
1	Z	160	HIS
1	Z	229	HIS

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Mol	Chain	Res	Type
1	Z	250	ASN
1	Z	293	ASN
1	Z	297	GLN
1	Z	311	GLN
1	Z	341	GLN
1	Z	352	ASN
1	Z	440	ASN
1	Z	464	HIS
1	Z	478	HIS
1	a	131	GLN
1	a	139	GLN
1	a	160	HIS
1	a	229	HIS
1	a	250	ASN
1	a	293	ASN
1	a	297	GLN
1	a	311	GLN
1	a	341	GLN
1	a	352	ASN
1	a	440	ASN
1	a	464	HIS
1	a	478	HIS
1	b	131	GLN
1	b	139	GLN
1	b	160	HIS
1	b	229	HIS
1	b	250	ASN
1	b	293	ASN
1	b	297	GLN
1	b	311	GLN
1	b	341	GLN
1	b	352	ASN
1	b	407	GLN
1	b	440	ASN
1	b	464	HIS
1	b	478	HIS
1	c	131	GLN
1	c	139	GLN
1	c	160	HIS
1	c	229	HIS
1	c	250	ASN
1	c	293	ASN

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Mol	Chain	Res	Type
1	c	297	GLN
1	c	311	GLN
1	c	341	GLN
1	c	352	ASN
1	c	440	ASN
1	c	464	HIS
1	c	478	HIS
1	d	131	GLN
1	d	139	GLN
1	d	160	HIS
1	d	229	HIS
1	d	250	ASN
1	d	293	ASN
1	d	297	GLN
1	d	311	GLN
1	d	341	GLN
1	d	352	ASN
1	d	440	ASN
1	d	464	HIS
1	d	478	HIS
1	e	131	GLN
1	e	139	GLN
1	e	160	HIS
1	e	229	HIS
1	e	250	ASN
1	e	293	ASN
1	e	297	GLN
1	e	311	GLN
1	e	341	GLN
1	e	352	ASN
1	e	440	ASN
1	e	464	HIS
1	e	478	HIS
1	f	131	GLN
1	f	134	GLN
1	f	139	GLN
1	f	160	HIS
1	f	229	HIS
1	f	250	ASN
1	f	293	ASN
1	f	297	GLN
1	f	311	GLN

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Mol	Chain	Res	Type
1	f	341	GLN
1	f	352	ASN
1	f	407	GLN
1	f	440	ASN
1	f	464	HIS
1	f	478	HIS
1	g	131	GLN
1	g	134	GLN
1	g	139	GLN
1	g	160	HIS
1	g	229	HIS
1	g	250	ASN
1	g	293	ASN
1	g	297	GLN
1	g	311	GLN
1	g	341	GLN
1	g	352	ASN
1	g	440	ASN
1	g	464	HIS
1	g	478	HIS
1	h	131	GLN
1	h	134	GLN
1	h	139	GLN
1	h	160	HIS
1	h	229	HIS
1	h	250	ASN
1	h	293	ASN
1	h	297	GLN
1	h	311	GLN
1	h	341	GLN
1	h	352	ASN
1	h	440	ASN
1	h	464	HIS
1	h	478	HIS
1	i	131	GLN
1	i	139	GLN
1	i	160	HIS
1	i	229	HIS
1	i	250	ASN
1	i	293	ASN
1	i	297	GLN
1	i	311	GLN

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Mol	Chain	Res	Type
1	i	341	GLN
1	i	352	ASN
1	i	440	ASN
1	i	464	HIS
1	i	478	HIS
1	j	131	GLN
1	j	134	GLN
1	j	139	GLN
1	j	160	HIS
1	j	229	HIS
1	j	250	ASN
1	j	293	ASN
1	j	297	GLN
1	j	311	GLN
1	j	341	GLN
1	j	352	ASN
1	j	407	GLN
1	j	440	ASN
1	j	464	HIS
1	j	478	HIS
1	k	131	GLN
1	k	139	GLN
1	k	160	HIS
1	k	229	HIS
1	k	250	ASN
1	k	293	ASN
1	k	297	GLN
1	k	311	GLN
1	k	341	GLN
1	k	352	ASN
1	k	407	GLN
1	k	440	ASN
1	k	464	HIS
1	k	478	HIS
1	l	131	GLN
1	l	134	GLN
1	l	139	GLN
1	l	160	HIS
1	l	229	HIS
1	l	250	ASN
1	l	293	ASN
1	l	297	GLN

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Mol	Chain	Res	Type
1	l	311	GLN
1	l	341	GLN
1	l	352	ASN
1	l	440	ASN
1	l	464	HIS
1	l	478	HIS
1	m	131	GLN
1	m	139	GLN
1	m	160	HIS
1	m	229	HIS
1	m	250	ASN
1	m	293	ASN
1	m	297	GLN
1	m	311	GLN
1	m	341	GLN
1	m	352	ASN
1	m	440	ASN
1	m	464	HIS
1	m	478	HIS
1	n	131	GLN
1	n	139	GLN
1	n	160	HIS
1	n	229	HIS
1	n	250	ASN
1	n	293	ASN
1	n	297	GLN
1	n	311	GLN
1	n	341	GLN
1	n	352	ASN
1	n	440	ASN
1	n	464	HIS
1	n	478	HIS
1	o	131	GLN
1	o	139	GLN
1	o	160	HIS
1	o	229	HIS
1	o	250	ASN
1	o	293	ASN
1	o	297	GLN
1	o	311	GLN
1	o	341	GLN
1	o	352	ASN

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Mol	Chain	Res	Type
1	o	407	GLN
1	o	440	ASN
1	o	464	HIS
1	o	478	HIS
1	p	131	GLN
1	p	139	GLN
1	p	160	HIS
1	p	229	HIS
1	p	250	ASN
1	p	293	ASN
1	p	297	GLN
1	p	311	GLN
1	p	341	GLN
1	p	352	ASN
1	p	440	ASN
1	p	464	HIS
1	p	478	HIS
1	q	131	GLN
1	q	139	GLN
1	q	160	HIS
1	q	229	HIS
1	q	250	ASN
1	q	293	ASN
1	q	297	GLN
1	q	311	GLN
1	q	341	GLN
1	q	352	ASN
1	q	440	ASN
1	q	464	HIS
1	q	478	HIS
1	r	131	GLN
1	r	139	GLN
1	r	160	HIS
1	r	229	HIS
1	r	250	ASN
1	r	293	ASN
1	r	297	GLN
1	r	311	GLN
1	r	341	GLN
1	r	352	ASN
1	r	440	ASN
1	r	464	HIS

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Mol	Chain	Res	Type
1	r	478	HIS
1	s	131	GLN
1	s	139	GLN
1	s	160	HIS
1	s	229	HIS
1	s	250	ASN
1	s	293	ASN
1	s	297	GLN
1	s	311	GLN
1	s	341	GLN
1	s	352	ASN
1	s	440	ASN
1	s	464	HIS
1	s	478	HIS
1	t	131	GLN
1	t	139	GLN
1	t	160	HIS
1	t	229	HIS
1	t	250	ASN
1	t	293	ASN
1	t	297	GLN
1	t	311	GLN
1	t	341	GLN
1	t	352	ASN
1	t	440	ASN
1	t	464	HIS
1	t	478	HIS
1	u	131	GLN
1	u	139	GLN
1	u	160	HIS
1	u	229	HIS
1	u	250	ASN
1	u	293	ASN
1	u	297	GLN
1	u	311	GLN
1	u	341	GLN
1	u	352	ASN
1	u	440	ASN
1	u	464	HIS
1	u	478	HIS
1	v	131	GLN
1	v	139	GLN

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Mol	Chain	Res	Type
1	v	160	HIS
1	v	229	HIS
1	v	250	ASN
1	v	293	ASN
1	v	297	GLN
1	v	311	GLN
1	v	341	GLN
1	v	352	ASN
1	v	440	ASN
1	v	464	HIS
1	v	478	HIS
1	w	131	GLN
1	w	139	GLN
1	w	160	HIS
1	w	229	HIS
1	w	250	ASN
1	w	293	ASN
1	w	297	GLN
1	w	311	GLN
1	w	341	GLN
1	w	352	ASN
1	w	440	ASN
1	w	464	HIS
1	w	478	HIS
1	x	131	GLN
1	x	139	GLN
1	x	160	HIS
1	x	229	HIS
1	x	250	ASN
1	x	293	ASN
1	x	297	GLN
1	x	311	GLN
1	x	341	GLN
1	x	352	ASN
1	x	440	ASN
1	x	464	HIS
1	x	478	HIS
1	y	131	GLN
1	y	139	GLN
1	y	160	HIS
1	y	229	HIS
1	y	250	ASN

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Mol	Chain	Res	Type
1	y	293	ASN
1	y	297	GLN
1	y	311	GLN
1	y	341	GLN
1	y	352	ASN
1	y	440	ASN
1	y	464	HIS
1	y	478	HIS
1	z	131	GLN
1	z	139	GLN
1	z	160	HIS
1	z	229	HIS
1	z	250	ASN
1	z	293	ASN
1	z	297	GLN
1	z	311	GLN
1	z	341	GLN
1	z	352	ASN
1	z	440	ASN
1	z	464	HIS
1	z	478	HIS
1	1	131	GLN
1	1	134	GLN
1	1	139	GLN
1	1	160	HIS
1	1	229	HIS
1	1	250	ASN
1	1	293	ASN
1	1	297	GLN
1	1	311	GLN
1	1	341	GLN
1	1	352	ASN
1	1	407	GLN
1	1	440	ASN
1	1	464	HIS
1	1	478	HIS
1	2	131	GLN
1	2	139	GLN
1	2	160	HIS
1	2	229	HIS
1	2	250	ASN
1	2	293	ASN

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Mol	Chain	Res	Type
1	2	297	GLN
1	2	311	GLN
1	2	341	GLN
1	2	352	ASN
1	2	440	ASN
1	2	464	HIS
1	2	478	HIS
1	3	131	GLN
1	3	139	GLN
1	3	160	HIS
1	3	229	HIS
1	3	250	ASN
1	3	293	ASN
1	3	297	GLN
1	3	311	GLN
1	3	341	GLN
1	3	352	ASN
1	3	440	ASN
1	3	464	HIS
1	3	478	HIS
1	4	131	GLN
1	4	139	GLN
1	4	160	HIS
1	4	229	HIS
1	4	250	ASN
1	4	293	ASN
1	4	297	GLN
1	4	311	GLN
1	4	341	GLN
1	4	352	ASN
1	4	440	ASN
1	4	464	HIS
1	4	478	HIS
1	5	131	GLN
1	5	139	GLN
1	5	160	HIS
1	5	229	HIS
1	5	250	ASN
1	5	293	ASN
1	5	297	GLN
1	5	311	GLN
1	5	341	GLN

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Mol	Chain	Res	Type
1	5	352	ASN
1	5	440	ASN
1	5	464	HIS
1	5	478	HIS
1	6	131	GLN
1	6	134	GLN
1	6	139	GLN
1	6	160	HIS
1	6	229	HIS
1	6	250	ASN
1	6	293	ASN
1	6	297	GLN
1	6	311	GLN
1	6	341	GLN
1	6	352	ASN
1	6	440	ASN
1	6	464	HIS
1	6	478	HIS
1	7	131	GLN
1	7	139	GLN
1	7	160	HIS
1	7	229	HIS
1	7	250	ASN
1	7	293	ASN
1	7	297	GLN
1	7	311	GLN
1	7	341	GLN
1	7	352	ASN
1	7	440	ASN
1	7	464	HIS
1	7	478	HIS
1	8	131	GLN
1	8	139	GLN
1	8	160	HIS
1	8	229	HIS
1	8	250	ASN
1	8	293	ASN
1	8	297	GLN
1	8	311	GLN
1	8	341	GLN
1	8	352	ASN
1	8	440	ASN

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Mol	Chain	Res	Type
1	8	464	HIS
1	8	478	HIS

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

## 5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

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

### 5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

### 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

### 5.7 Other polymers [i](#)

There are no such residues in this entry.

### 5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

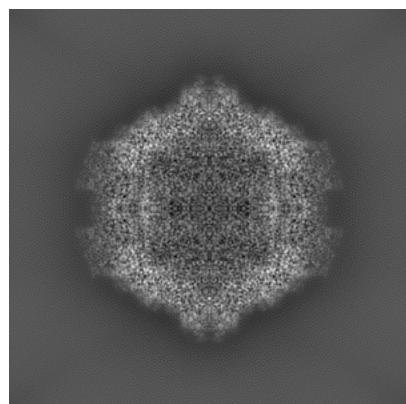
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-41614. These allow visual inspection of the internal detail of the map and identification of artifacts.

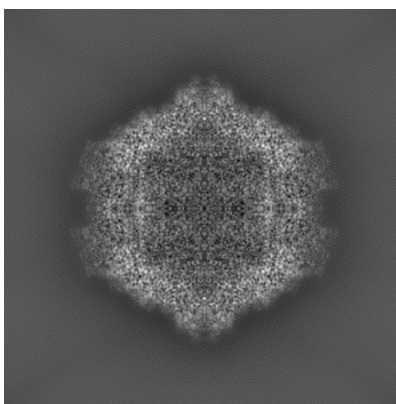
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

### 6.1 Orthogonal projections [i](#)

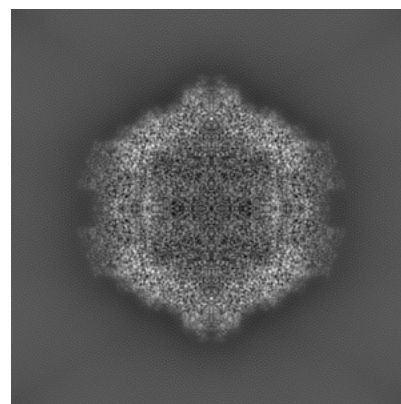
#### 6.1.1 Primary map



X

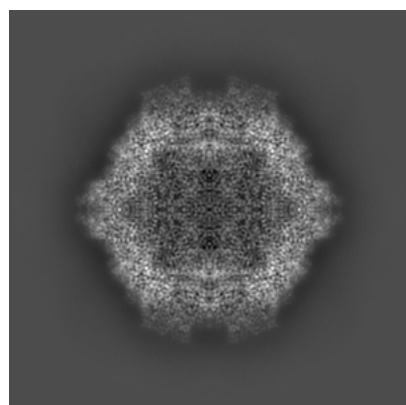


Y

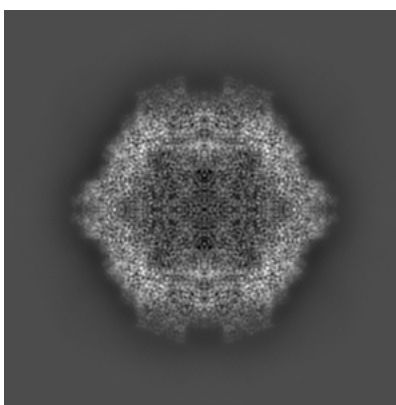


Z

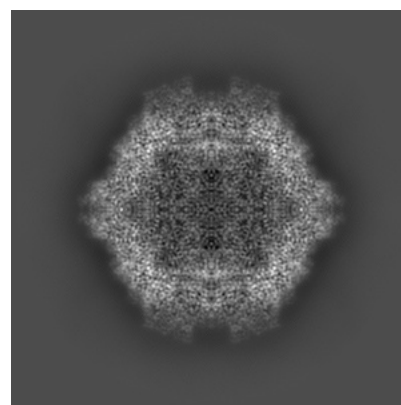
#### 6.1.2 Raw map



X



Y

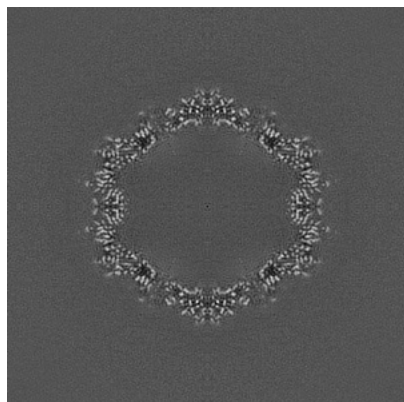


Z

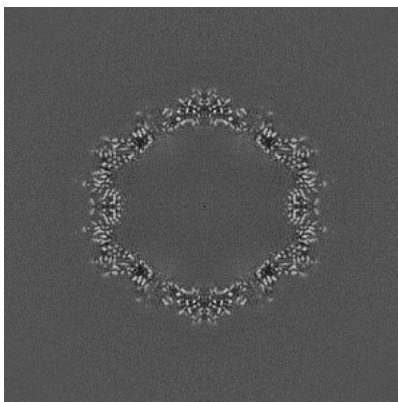
The images above show the map projected in three orthogonal directions.

## 6.2 Central slices [i](#)

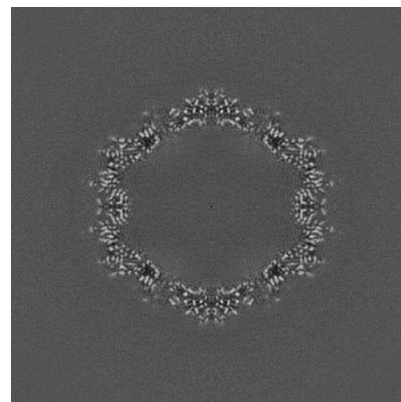
### 6.2.1 Primary map



X Index: 230

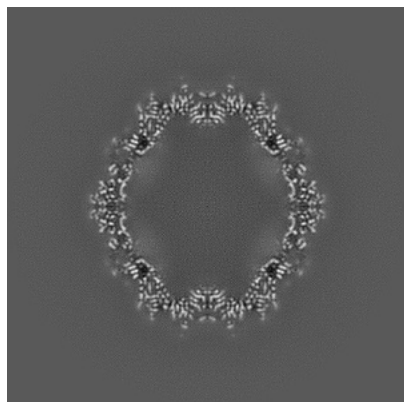


Y Index: 230

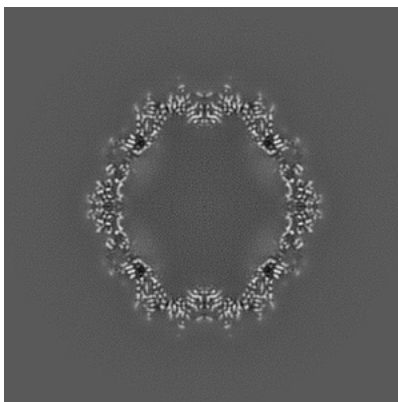


Z Index: 230

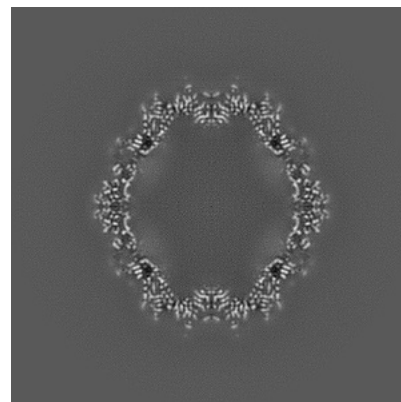
### 6.2.2 Raw map



X Index: 230



Y Index: 230

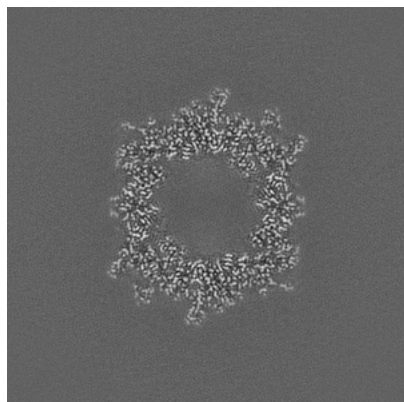


Z Index: 230

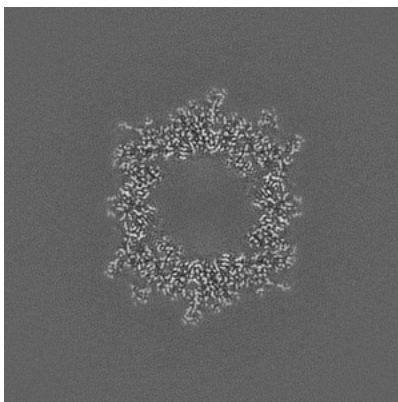
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

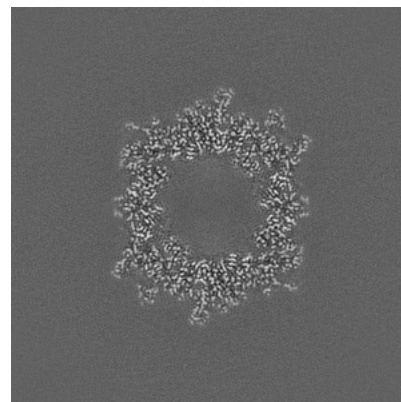
### 6.3.1 Primary map



X Index: 302

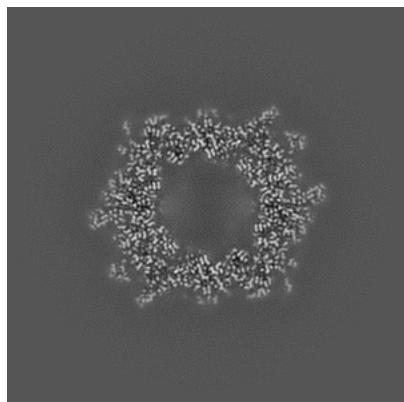


Y Index: 302

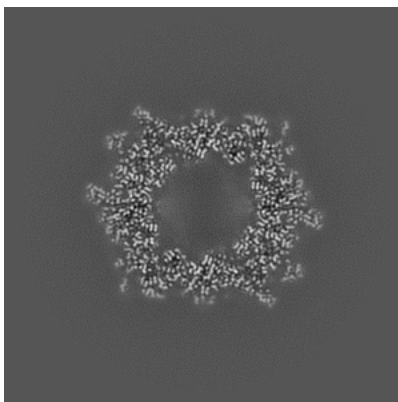


Z Index: 302

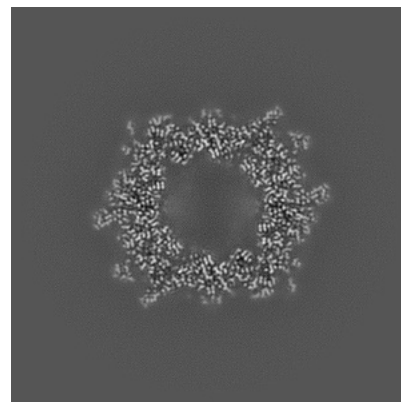
### 6.3.2 Raw map



X Index: 303



Y Index: 157



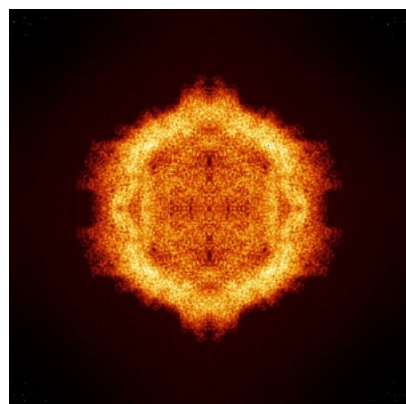
Z Index: 303

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

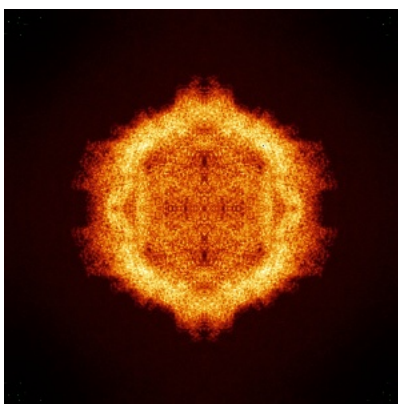


## 6.4 Orthogonal standard-deviation projections (False-color) [i](#)

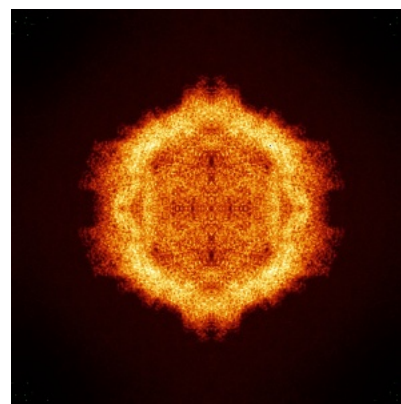
### 6.4.1 Primary map



X

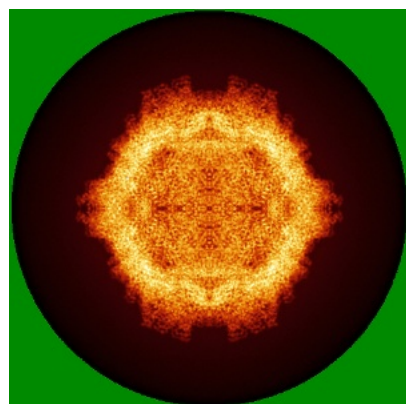


Y

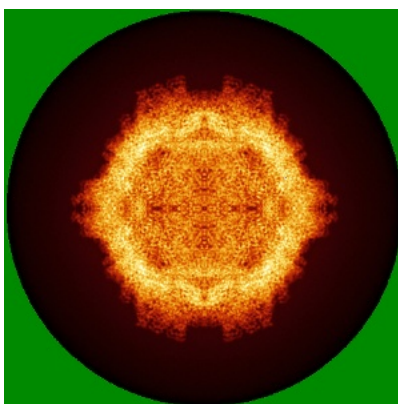


Z

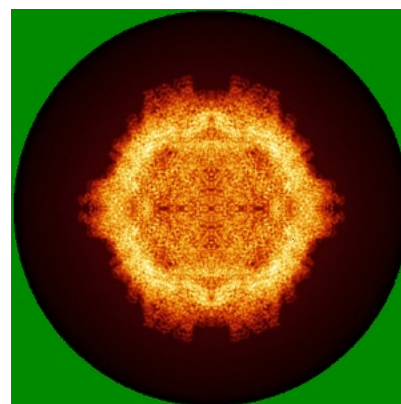
### 6.4.2 Raw map



X



Y



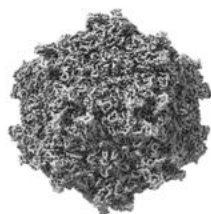
Z

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.

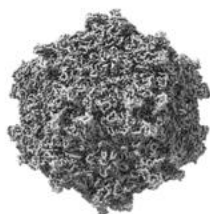


## 6.5 Orthogonal surface views [i](#)

### 6.5.1 Primary map



X



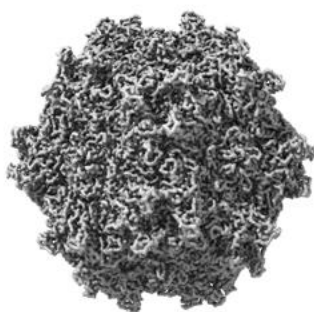
Y



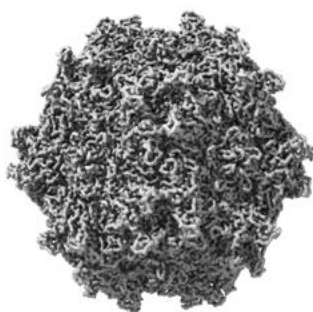
Z

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.

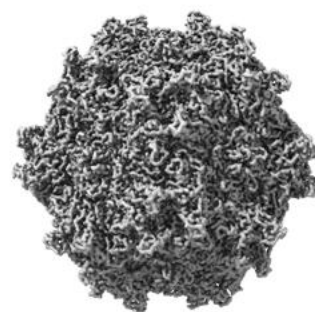
### 6.5.2 Raw map



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.

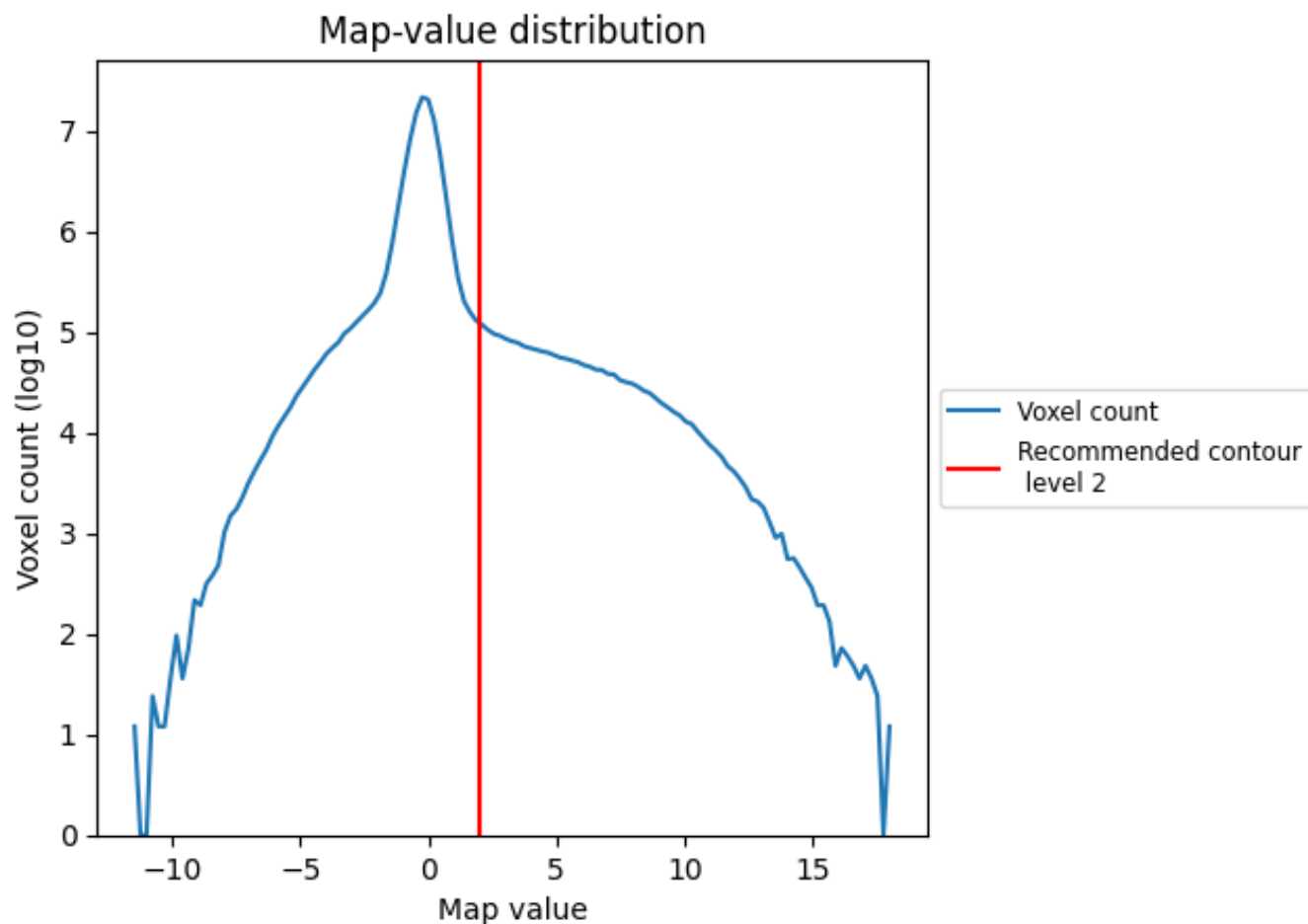
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

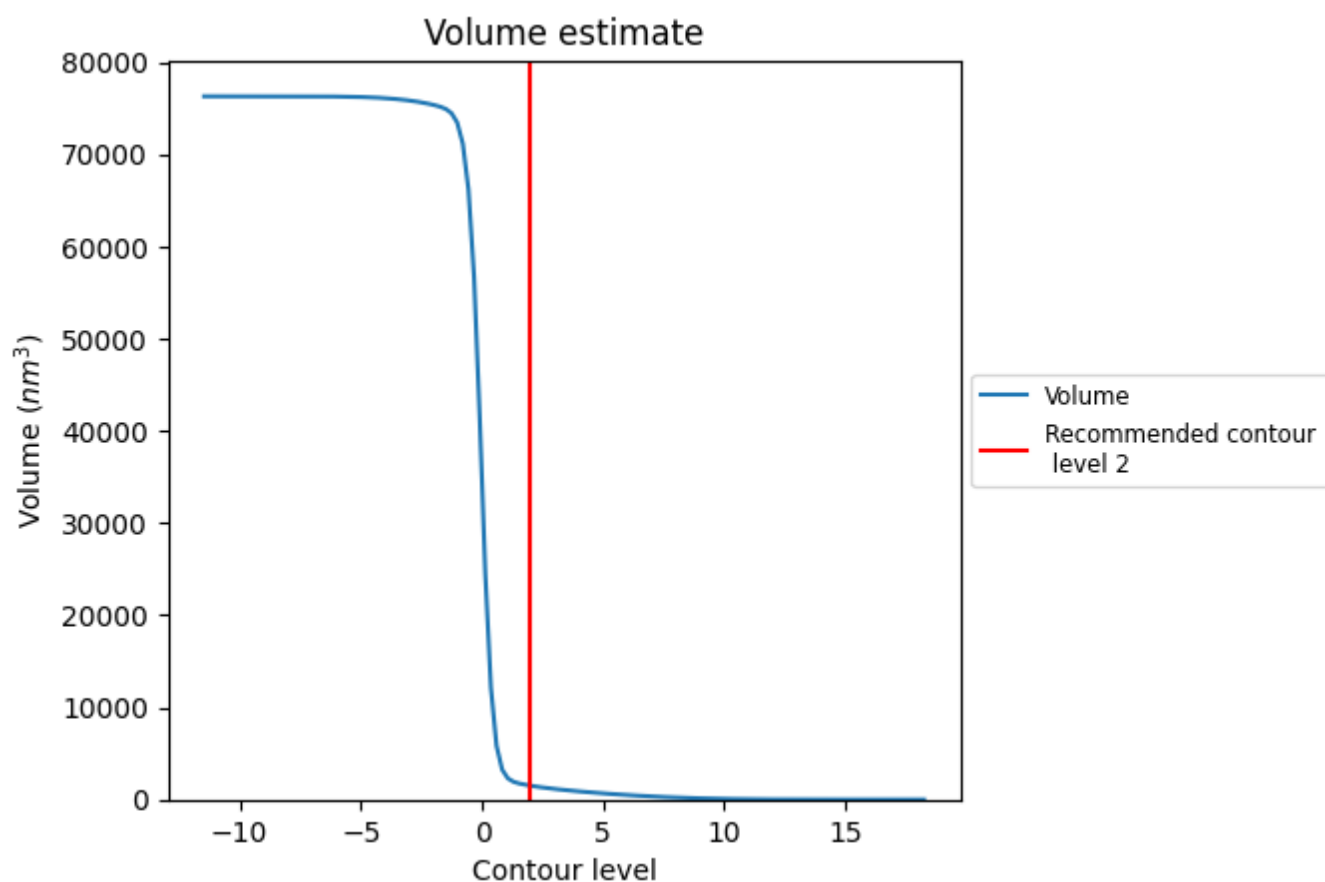
This section contains the results of statistical analysis of the map.

### 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.

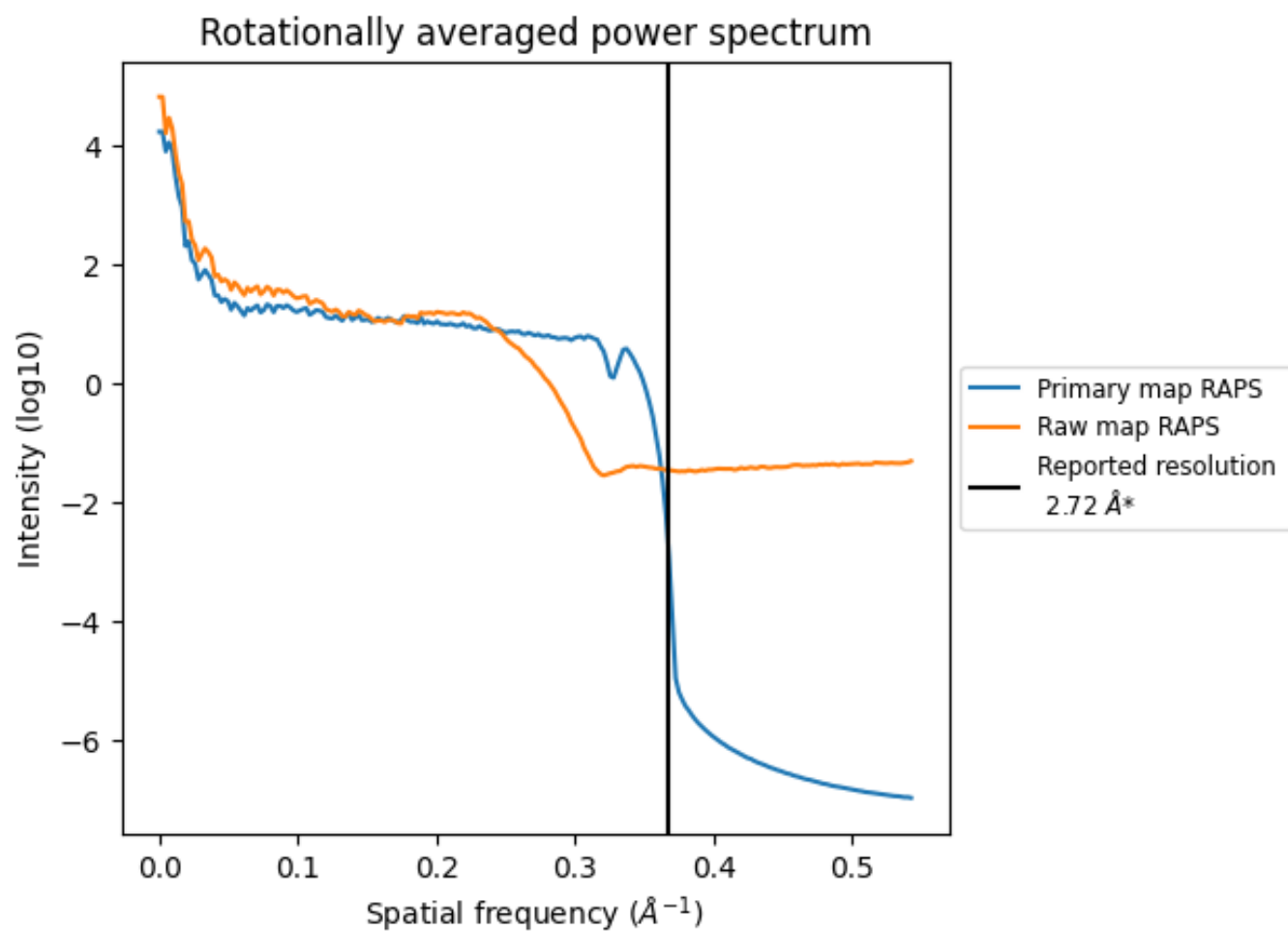
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1503 nm<sup>3</sup>; this corresponds to an approximate mass of 1358 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

### 7.3 Rotationally averaged power spectrum ⓘ

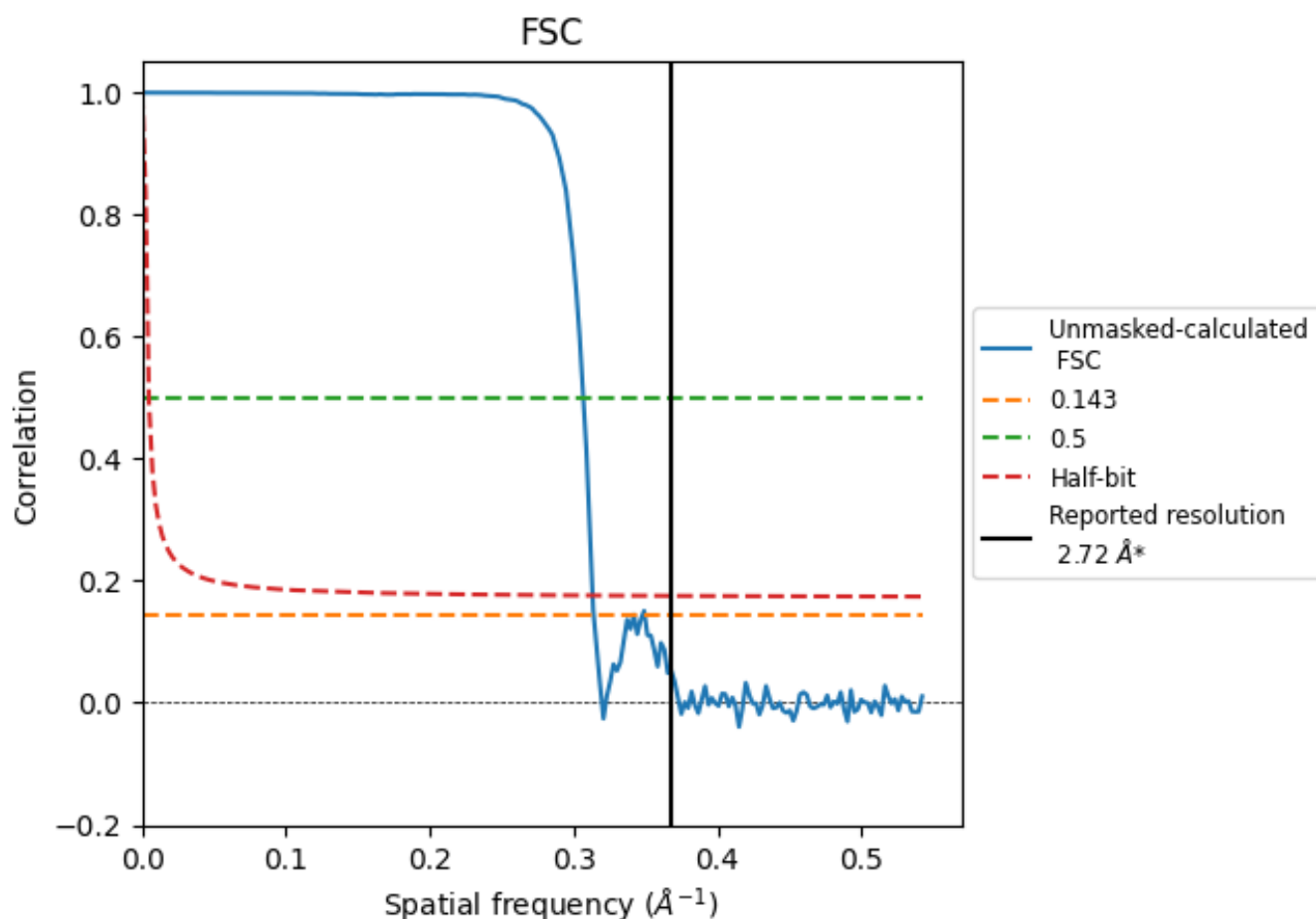


\*Reported resolution corresponds to spatial frequency of 0.368 Å<sup>-1</sup>

## 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  $0.368 \text{ \AA}^{-1}$

## 8.2 Resolution estimates [i](#)

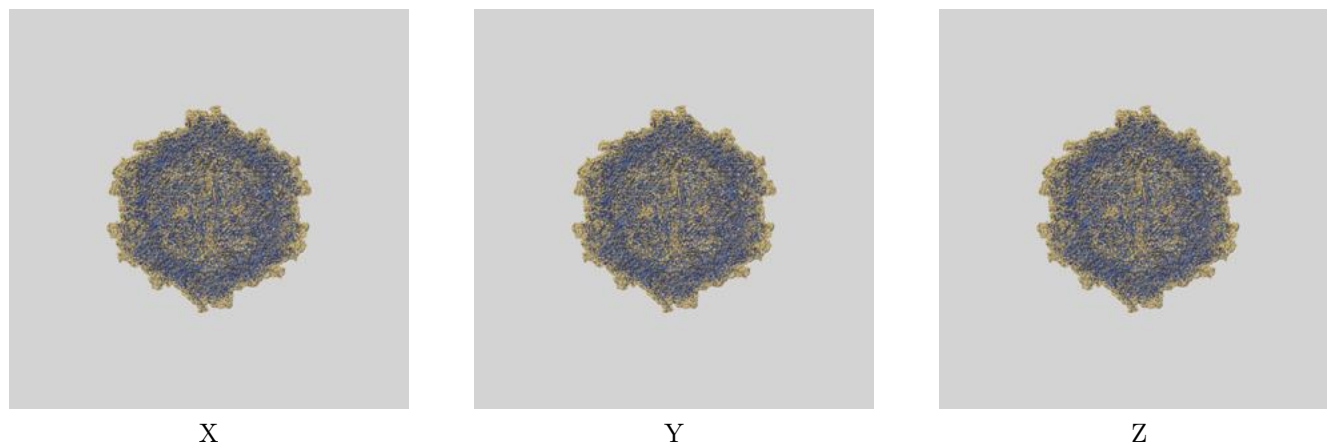
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.72	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.19	3.26	3.19

\*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.19 differs from the reported value 2.72 by more than 10 %

## 9 Map-model fit [i](#)

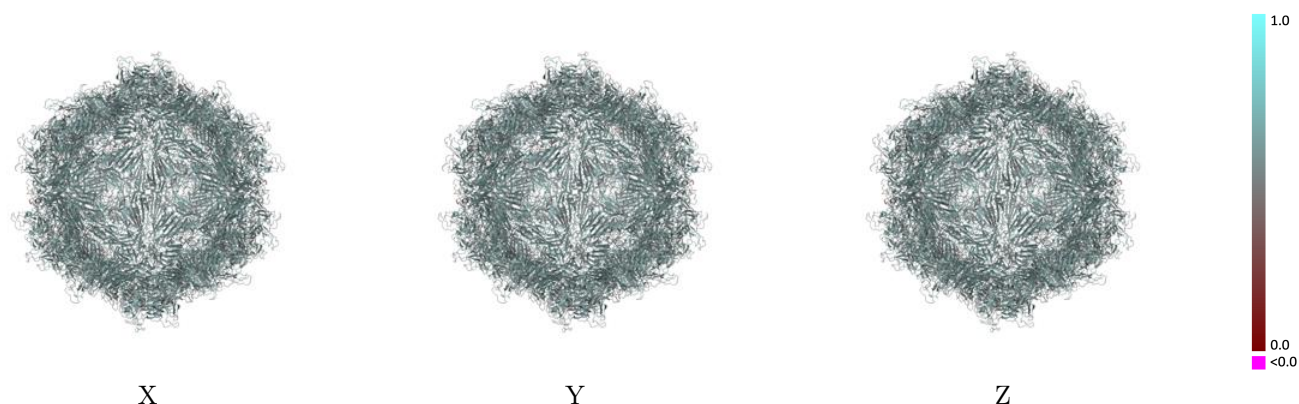
This section contains information regarding the fit between EMDB map EMD-41614 and PDB model 8TU0. Per-residue inclusion information can be found in section [3](#) on page [10](#).

### 9.1 Map-model overlay [i](#)



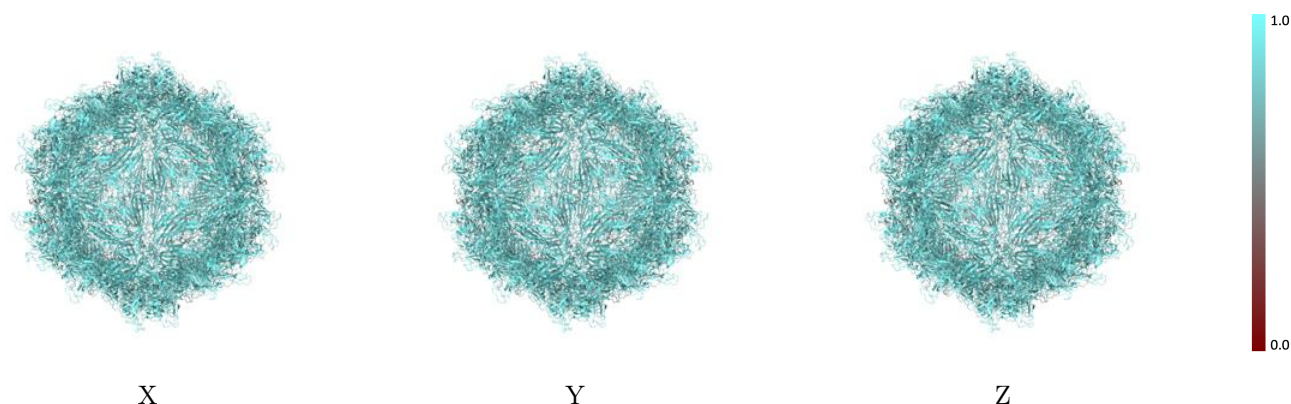
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



The images above show the model with each residue coloured according 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.

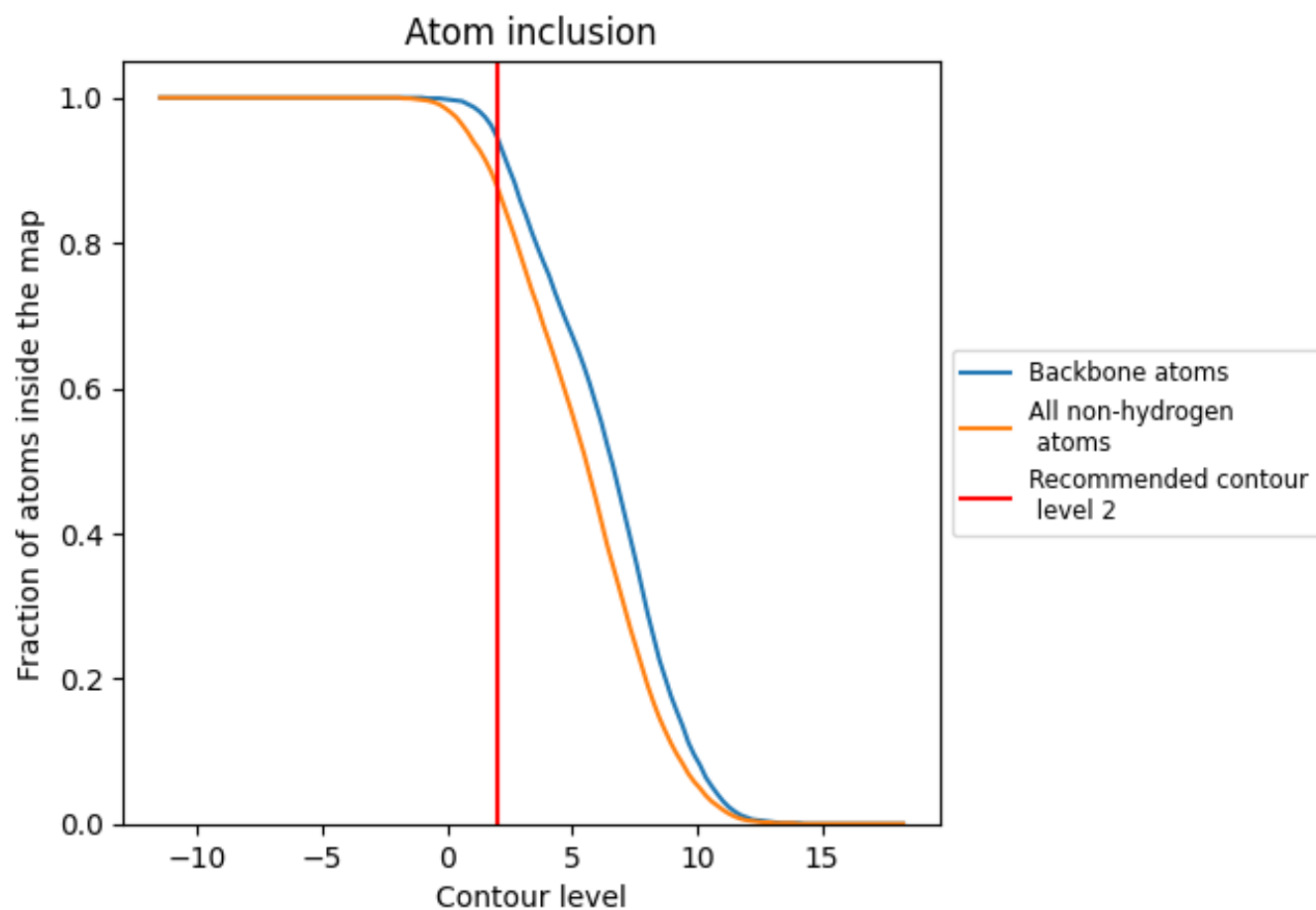
## 9.3 Atom inclusion mapped to coordinate model [i](#)



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, 95% of all backbone atoms, 88% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

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

Chain	Atom inclusion	Q-score
All	<div><div></div>0.8780</div>	<div><div></div>0.5640</div>
1	<div><div></div>0.8790</div>	<div><div></div>0.5640</div>
2	<div><div></div>0.8790</div>	<div><div></div>0.5640</div>
3	<div><div></div>0.8770</div>	<div><div></div>0.5640</div>
4	<div><div></div>0.8790</div>	<div><div></div>0.5640</div>
5	<div><div></div>0.8780</div>	<div><div></div>0.5650</div>
6	<div><div></div>0.8780</div>	<div><div></div>0.5650</div>
7	<div><div></div>0.8780</div>	<div><div></div>0.5650</div>
8	<div><div></div>0.8780</div>	<div><div></div>0.5640</div>
A	<div><div></div>0.8770</div>	<div><div></div>0.5640</div>
B	<div><div></div>0.8790</div>	<div><div></div>0.5640</div>
C	<div><div></div>0.8790</div>	<div><div></div>0.5640</div>
D	<div><div></div>0.8780</div>	<div><div></div>0.5630</div>
E	<div><div></div>0.8780</div>	<div><div></div>0.5640</div>
F	<div><div></div>0.8770</div>	<div><div></div>0.5640</div>
G	<div><div></div>0.8780</div>	<div><div></div>0.5640</div>
H	<div><div></div>0.8780</div>	<div><div></div>0.5650</div>
I	<div><div></div>0.8780</div>	<div><div></div>0.5640</div>
J	<div><div></div>0.8790</div>	<div><div></div>0.5640</div>
K	<div><div></div>0.8790</div>	<div><div></div>0.5640</div>
L	<div><div></div>0.8790</div>	<div><div></div>0.5630</div>
M	<div><div></div>0.8780</div>	<div><div></div>0.5650</div>
N	<div><div></div>0.8780</div>	<div><div></div>0.5650</div>
O	<div><div></div>0.8780</div>	<div><div></div>0.5650</div>
P	<div><div></div>0.8780</div>	<div><div></div>0.5640</div>
Q	<div><div></div>0.8780</div>	<div><div></div>0.5650</div>
R	<div><div></div>0.8790</div>	<div><div></div>0.5640</div>
S	<div><div></div>0.8790</div>	<div><div></div>0.5640</div>
T	<div><div></div>0.8790</div>	<div><div></div>0.5640</div>
U	<div><div></div>0.8790</div>	<div><div></div>0.5650</div>
V	<div><div></div>0.8790</div>	<div><div></div>0.5640</div>
W	<div><div></div>0.8780</div>	<div><div></div>0.5660</div>
X	<div><div></div>0.8780</div>	<div><div></div>0.5650</div>
Y	<div><div></div>0.8780</div>	<div><div></div>0.5650</div>
Z	<div><div></div>0.8780</div>	<div><div></div>0.5640</div>


















































1.0

0.0

<0.0

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Chain	Atom inclusion	Q-score
a	 0.8770	 0.5630
b	 0.8770	 0.5650
c	 0.8770	 0.5650
d	 0.8770	 0.5650
e	 0.8770	 0.5650
f	 0.8770	 0.5640
g	 0.8790	 0.5640
h	 0.8780	 0.5640
i	 0.8780	 0.5650
j	 0.8780	 0.5630
k	 0.8780	 0.5650
l	 0.8780	 0.5630
m	 0.8790	 0.5640
n	 0.8770	 0.5650
o	 0.8780	 0.5640
p	 0.8790	 0.5640
q	 0.8790	 0.5630
r	 0.8790	 0.5640
s	 0.8790	 0.5640
t	 0.8780	 0.5640
u	 0.8780	 0.5650
v	 0.8760	 0.5640
w	 0.8780	 0.5630
x	 0.8790	 0.5640
y	 0.8770	 0.5640
z	 0.8790	 0.5630