



Full wwPDB EM Validation Report ⓘ

May 14, 2025 – 02:17 AM EDT

PDB ID : 8TU1 / pdb_00008tu1
EMDB ID : EMD-41615
Title : The Capsid of Porcine Bocavirus 1
Authors : Velez, M.; Mietzsch, M.; McKenna, R.
Deposited on : 2023-08-15
Resolution : 2.31 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

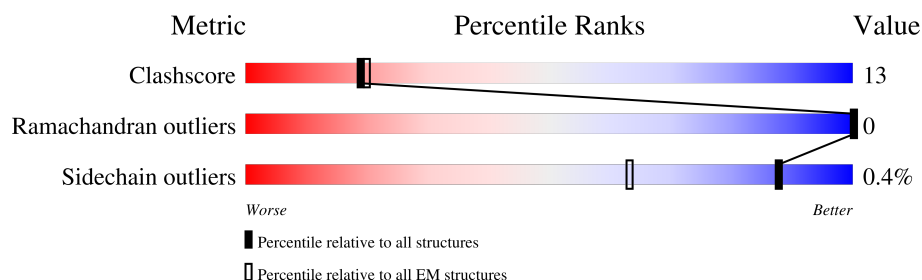
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.31 Å.

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
















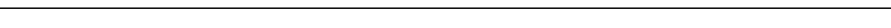











Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	1	567	70% 23% 7%
1	2	567	70% 23% 7%
1	3	567	70% 23% 7%
1	4	567	70% 23% 7%
1	5	567	70% 22% 7%
1	6	567	69% 23% 7%
1	7	567	70% 23% 7%
1	8	567	71% 22% 7%














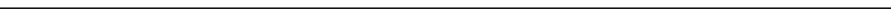











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Mol	Chain	Length	Quality of chain
1	A	567	
1	B	567	
1	C	567	
1	D	567	
1	E	567	
1	F	567	
1	G	567	
1	H	567	
1	I	567	
1	J	567	
1	K	567	
1	L	567	
1	M	567	
1	N	567	
1	O	567	
1	P	567	
1	Q	567	
1	R	567	
1	S	567	
1	T	567	
1	U	567	
1	V	567	
1	W	567	
1	X	567	
1	Y	567	

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Mol	Chain	Length	Quality of chain		
1	Z	567		70%	22% 7%
1	a	567		70%	22% 7%
1	b	567		70%	22% 7%
1	c	567		70%	23% 7%
1	d	567		70%	23% 7%
1	e	567		70%	22% 7%
1	f	567		70%	22% 7%
1	g	567		70%	22% 7%
1	h	567		70%	23% 7%
1	i	567		71%	22% 7%
1	j	567		70%	23% 7%
1	k	567		70%	23% 7%
1	l	567		71%	22% 7%
1	m	567		70%	23% 7%
1	n	567		70%	23% 7%
1	o	567		70%	23% 7%
1	p	567		70%	22% 7%
1	q	567		71%	22% 7%
1	r	567		71%	22% 7%
1	s	567		71%	22% 7%
1	t	567		69%	23% 7%
1	u	567		71%	22% 7%
1	v	567		70%	23% 7%
1	w	567		70%	23% 7%
1	x	567		70%	23% 7%

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Mol	Chain	Length	Quality of chain		
1	y	567	<div><div></div></div>	70%	22% 7%
1	z	567	<div><div></div></div>	69%	23% 7%

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 254460 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	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	B	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	C	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	D	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	E	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	F	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	G	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	H	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	I	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	J	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	K	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	L	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	M	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	N	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	O	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	P	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	Q	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	S	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	T	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	U	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	V	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	W	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	X	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	Y	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	Z	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	1	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	2	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	3	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	4	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	5	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	6	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	a	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	b	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	c	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	d	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	e	527	Total 4241	C 2661	N 747	O 815	S 18	1	0
1	f	527	Total 4241	C 2661	N 747	O 815	S 18	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	h	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	i	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	j	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	k	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	l	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	m	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	n	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	o	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	p	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	q	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	r	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	s	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	t	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	u	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	v	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	w	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	x	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	y	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	z	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		
1	7	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		

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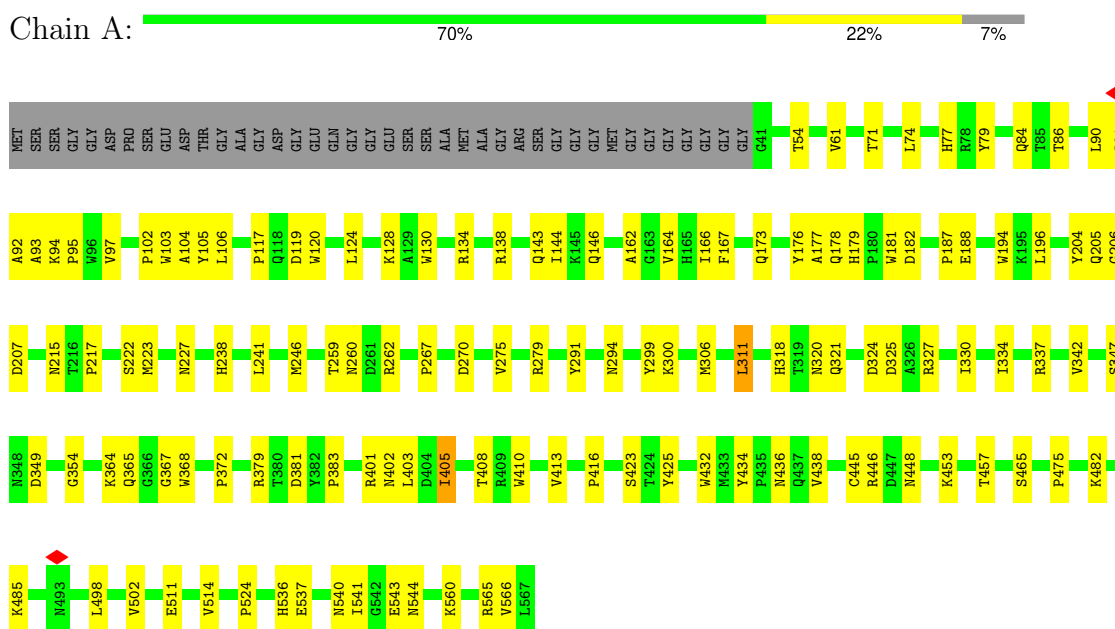
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	527	Total	C	N	O	S	1	0
			4241	2661	747	815	18		

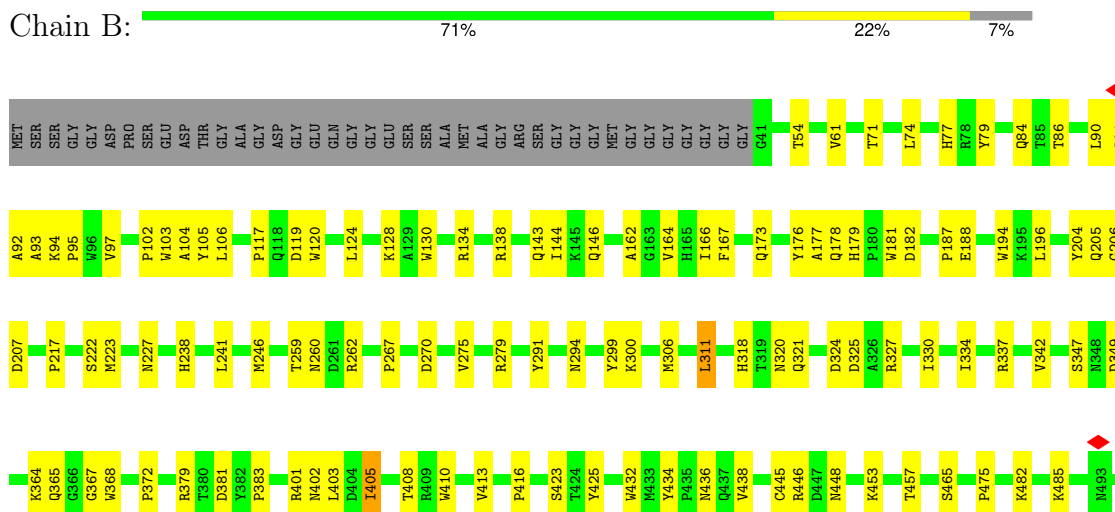
3 Residue-property plots

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

• Molecule 1: VP2



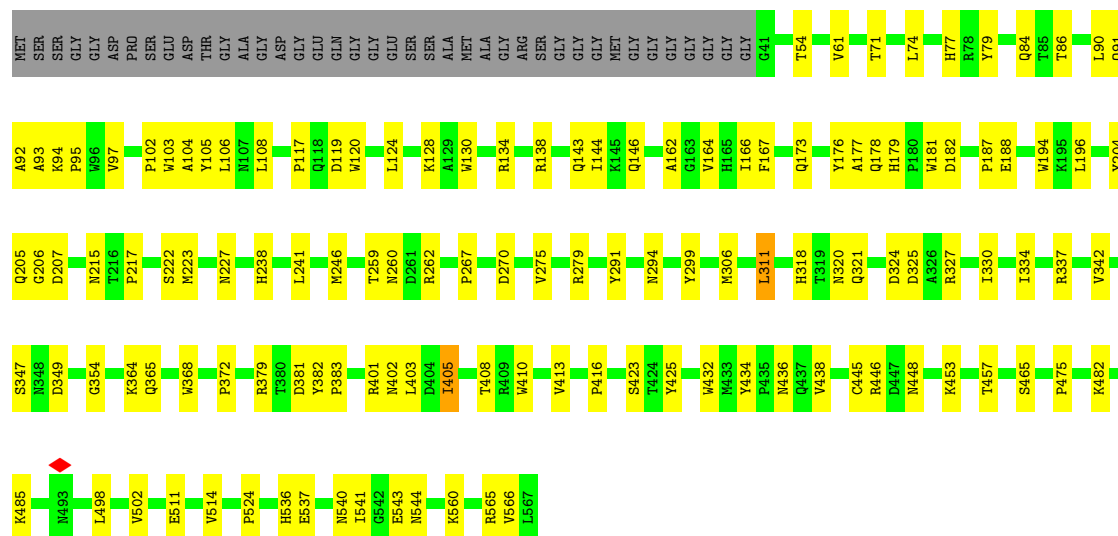
• Molecule 1: VP2





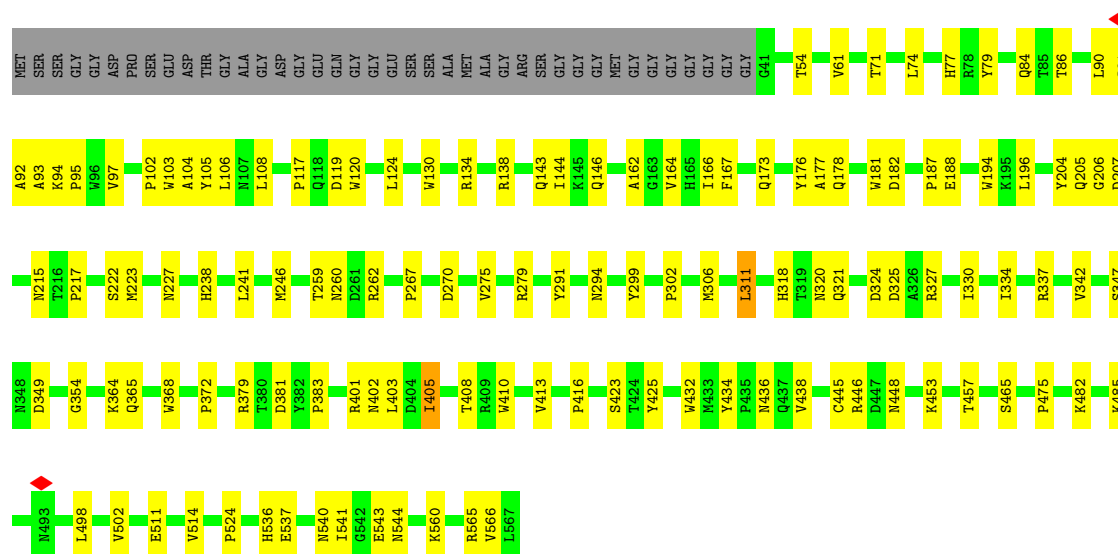
• Molecule 1: VP2

Chain C: 70% 22% 7%



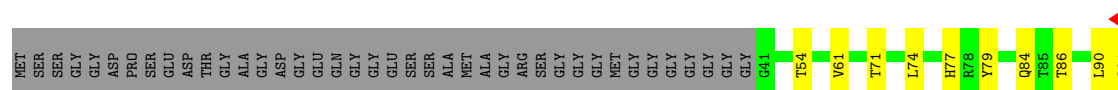
• Molecule 1: VP2

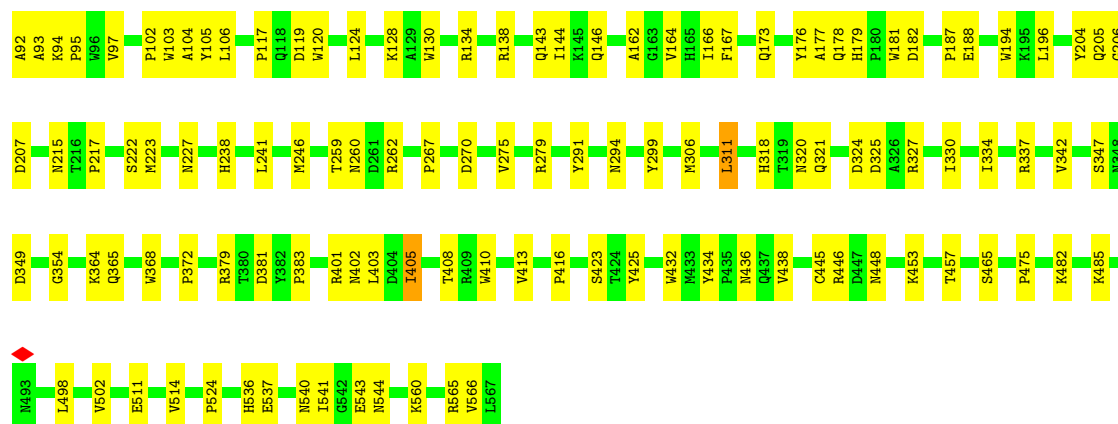
Chain D: 71% 22% 7%



• Molecule 1: VP2

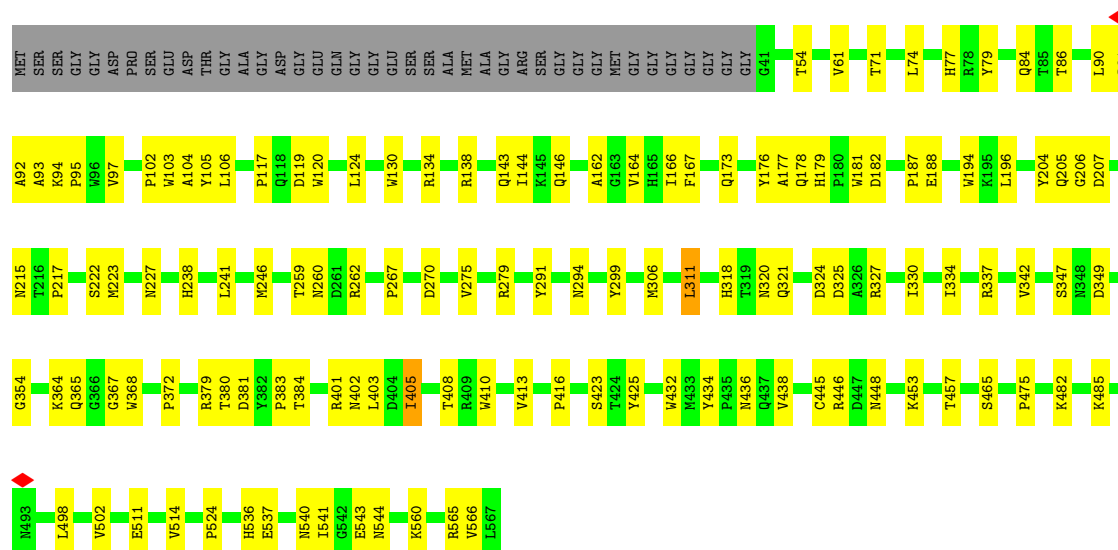
Chain E: 71% 22% 7%





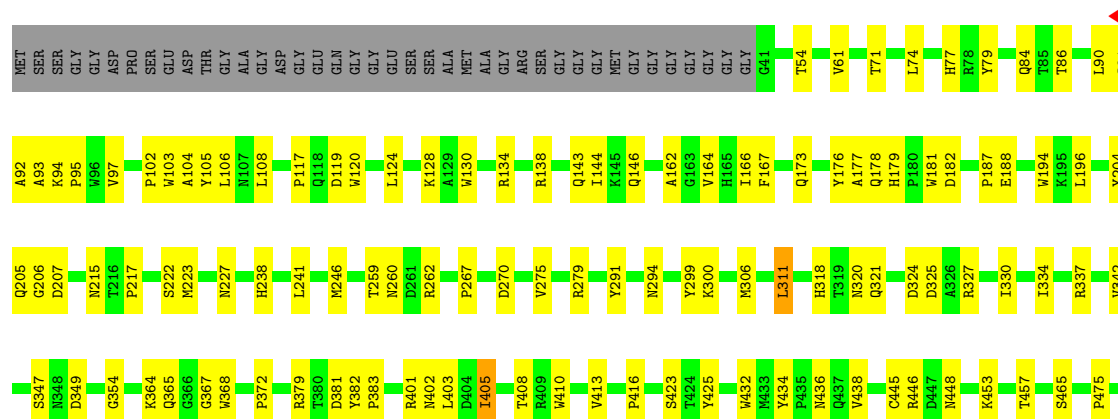
• Molecule 1: VP2

Chain F: 70% 22% 7%



• Molecule 1: VP2

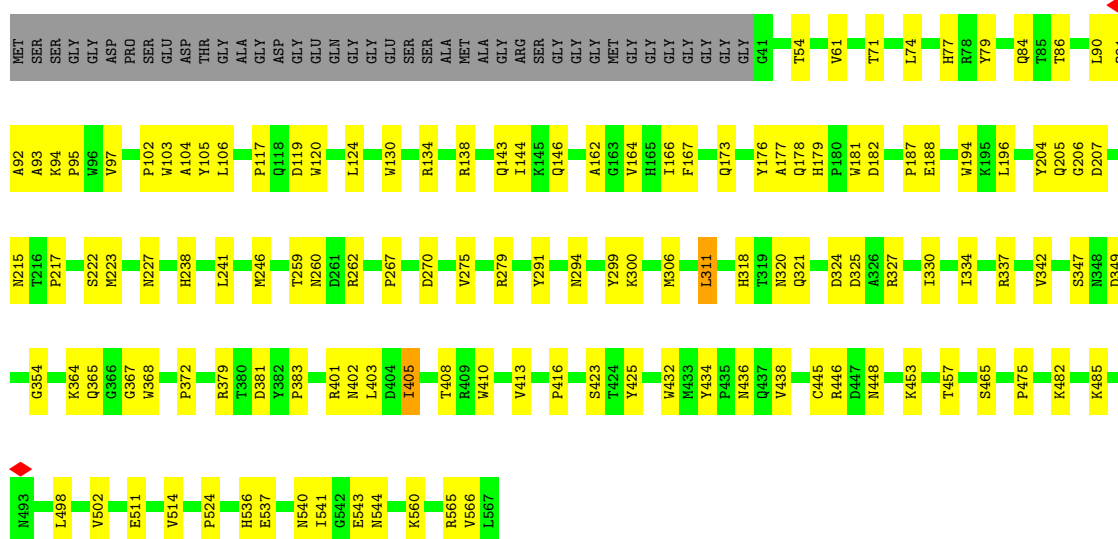
Chain G: 70% 23% 7%





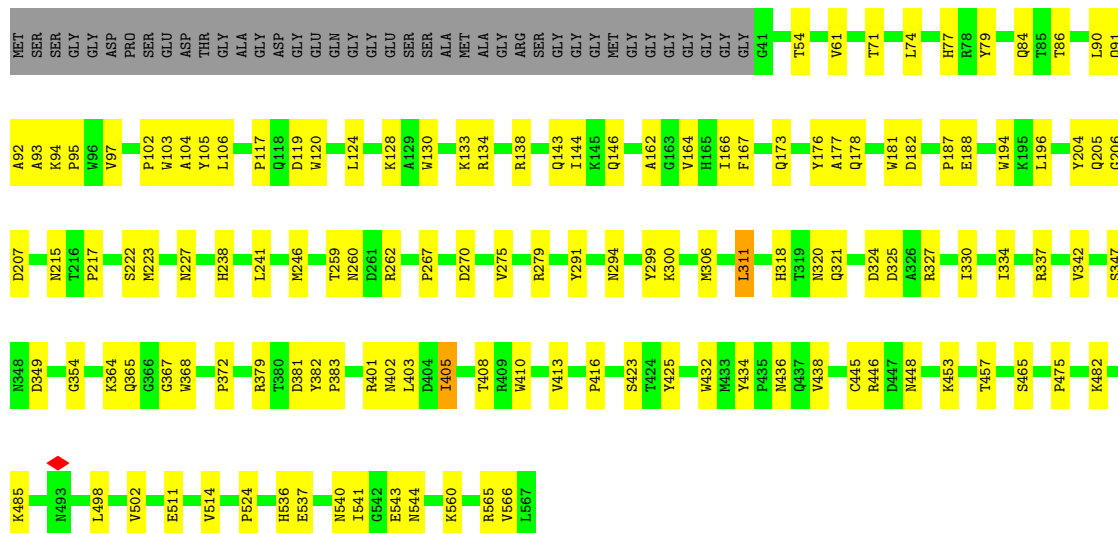
• Molecule 1: VP2

Chain H: 70% 22% 7%



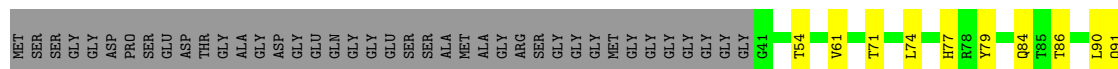
• Molecule 1: VP2

Chain I: 70% 23% 7%



• Molecule 1: VP2

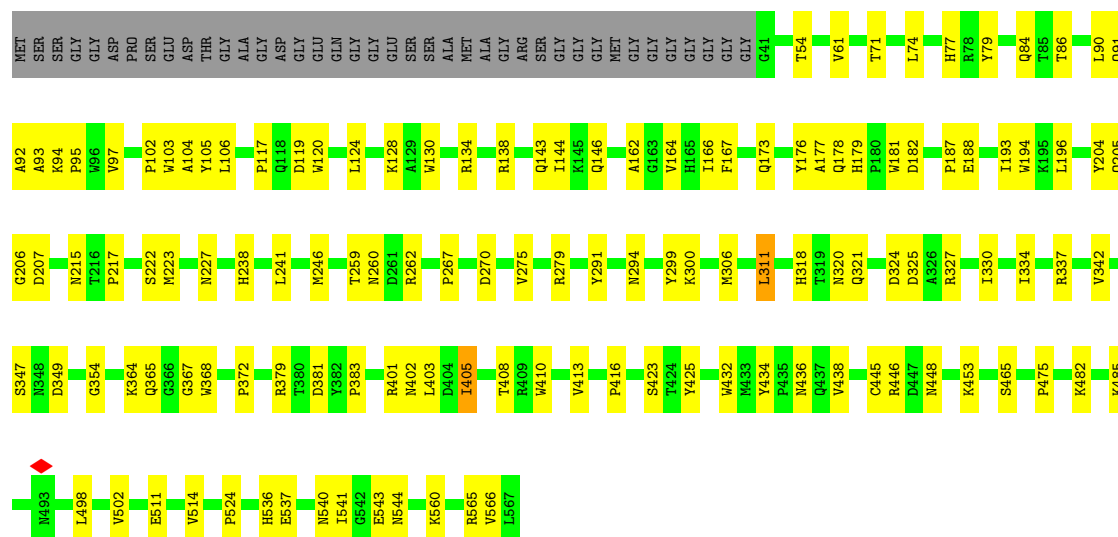
Chain J: 70% 23% 7%





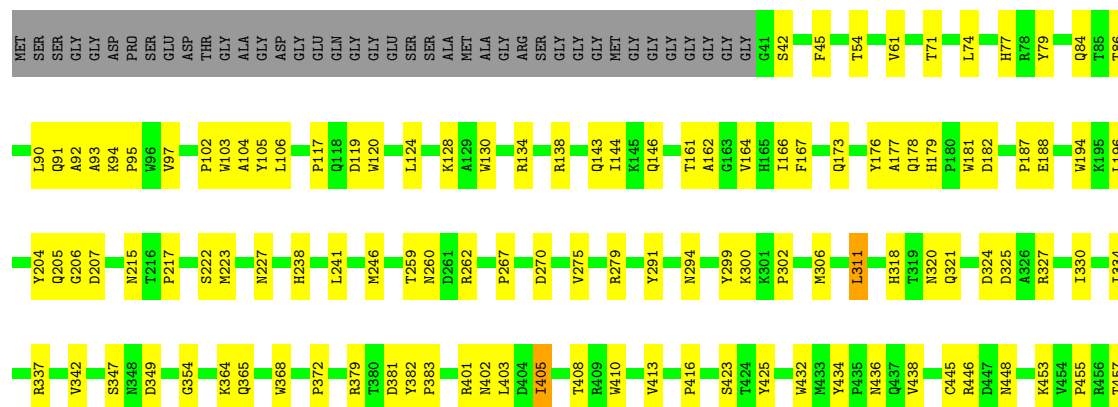
• Molecule 1: VP2

Chain K: 70% 22% 7%



• Molecule 1: VP2

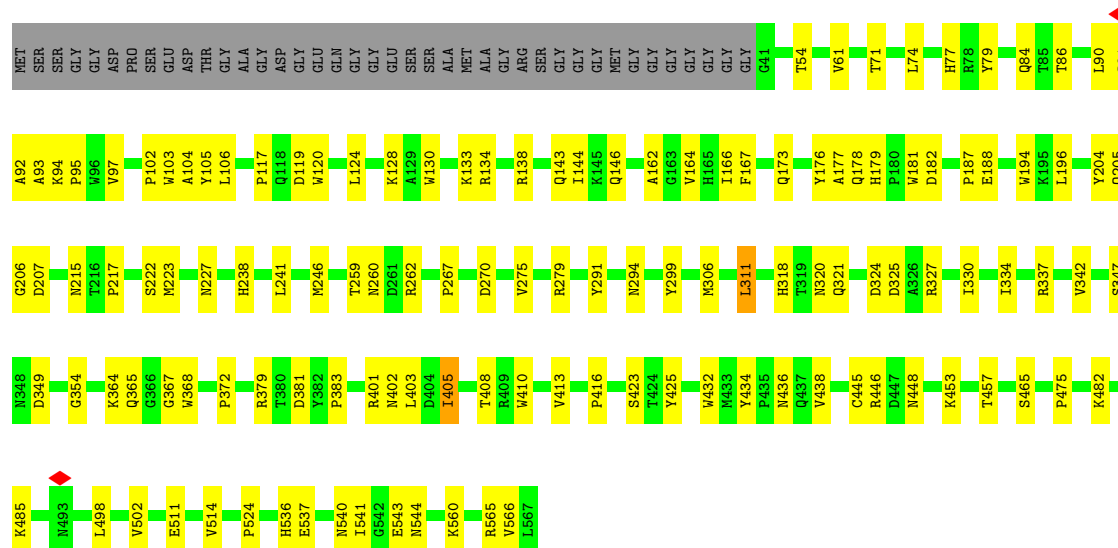
Chain L: 69% 23% 7%





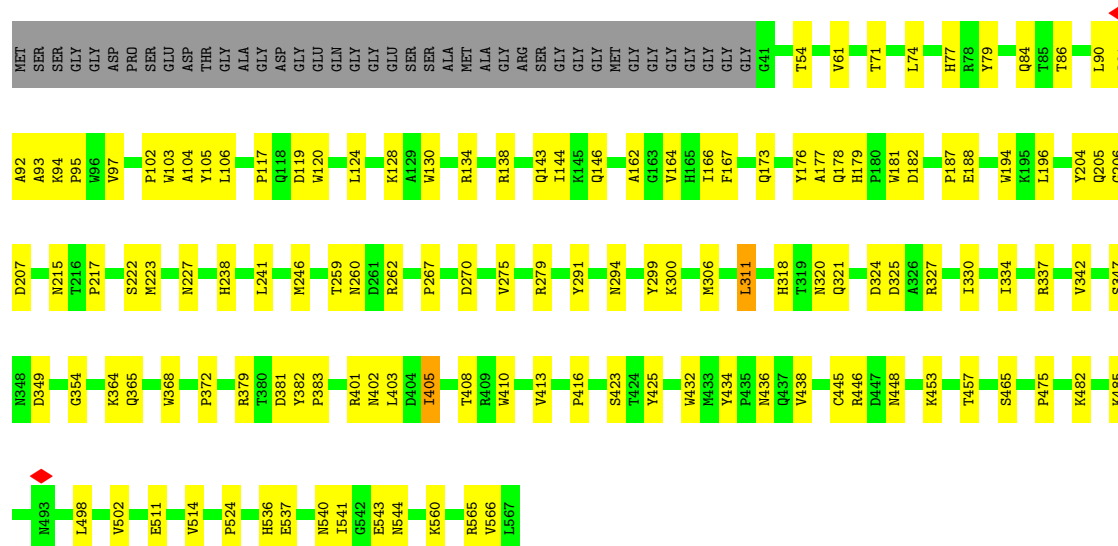
• Molecule 1: VP2

Chain M: 70% 22% 7%



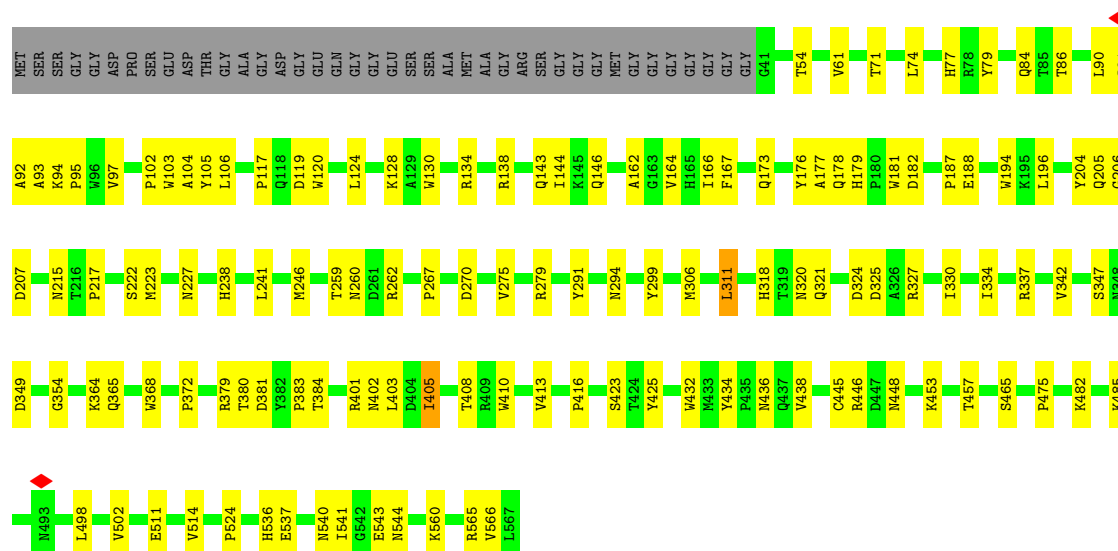
• Molecule 1: VP2

Chain N: 70% 22% 7%



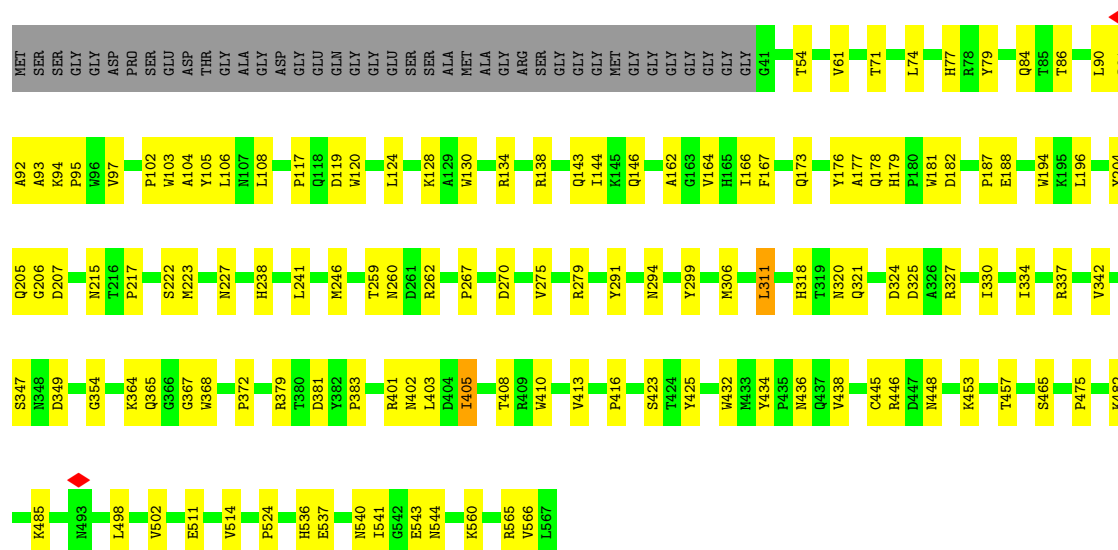
• Molecule 1: VP2

Chain O: 70% 22% 7%



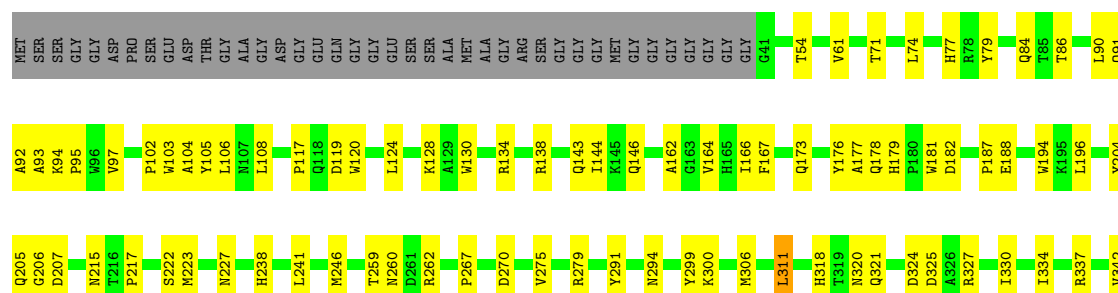
• Molecule 1: VP2

Chain P: 70% 22% 7%



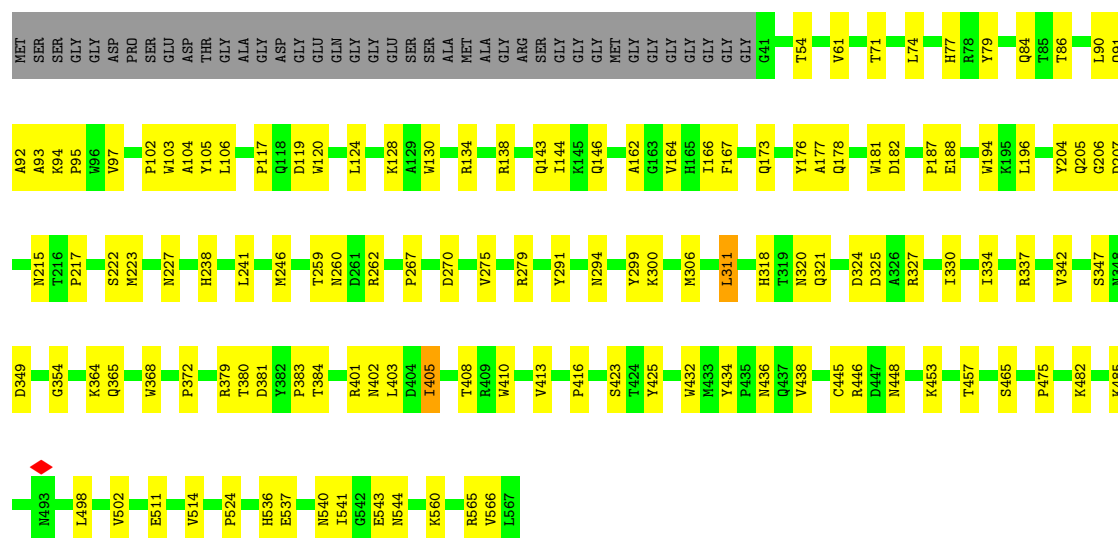
• Molecule 1: VP2

Chain Q: 70% 23% 7%



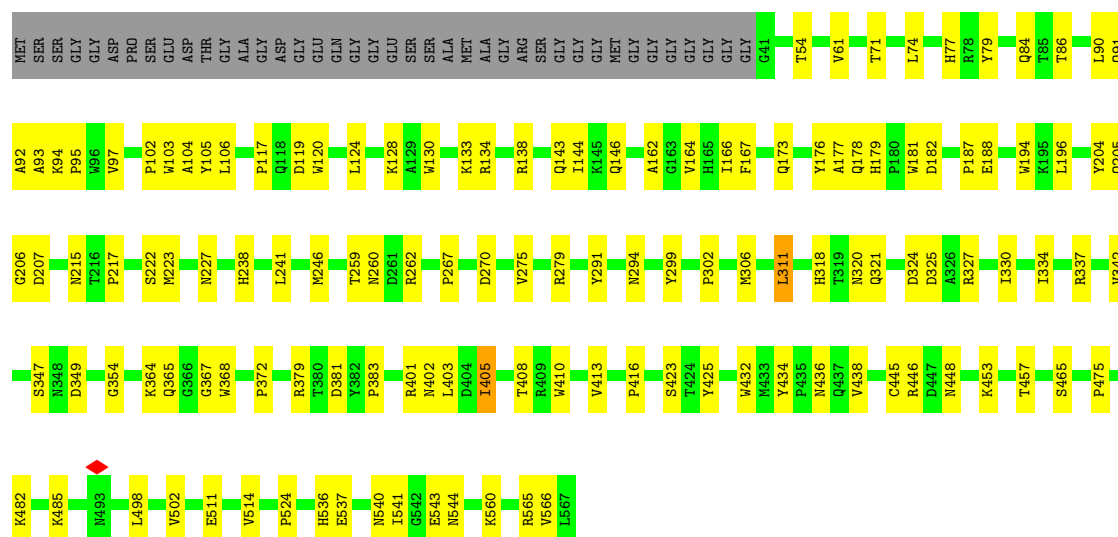


Chain T: 



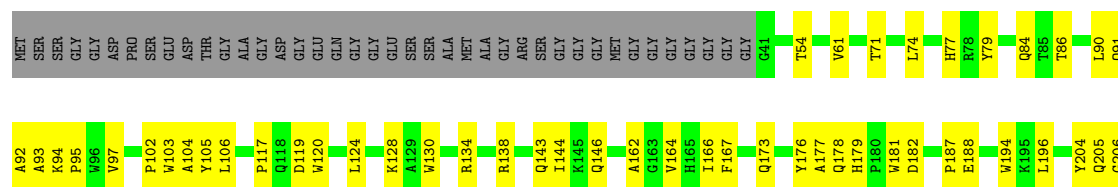
• Molecule 1: VP2

Chain U: 



• Molecule 1: VP2

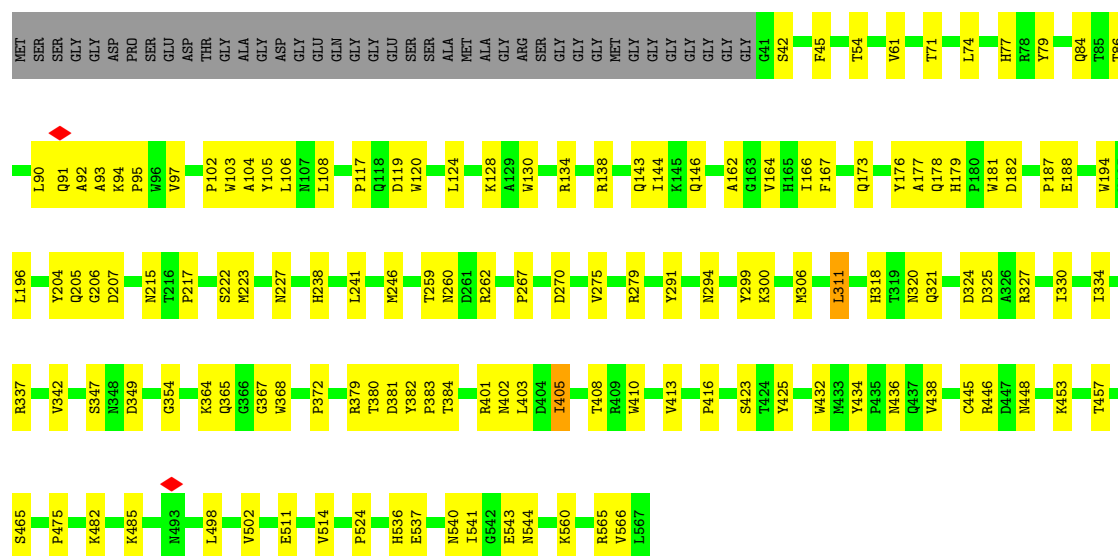
Chain V: 





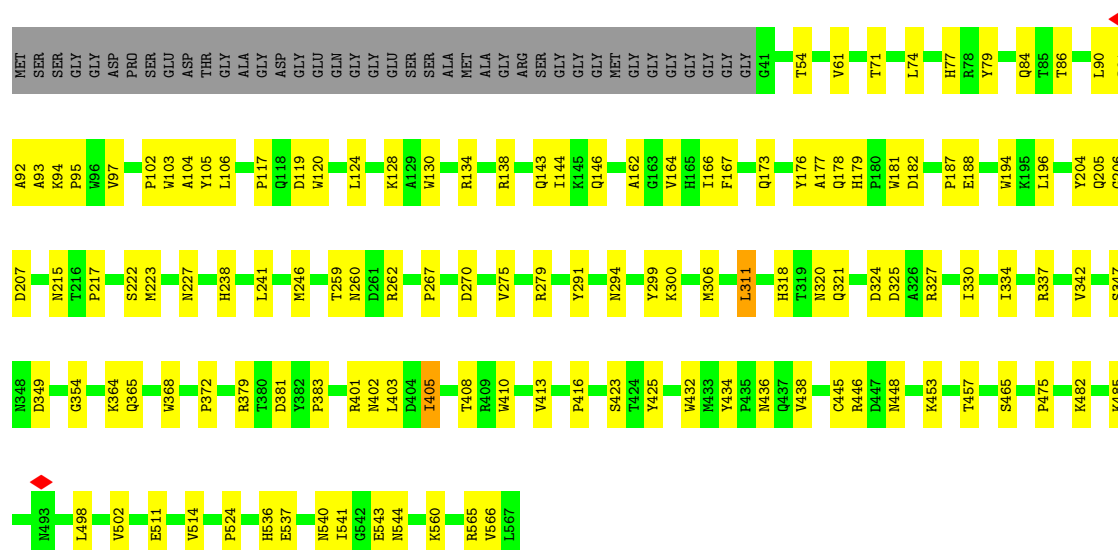
• Molecule 1: VP2

Chain W:



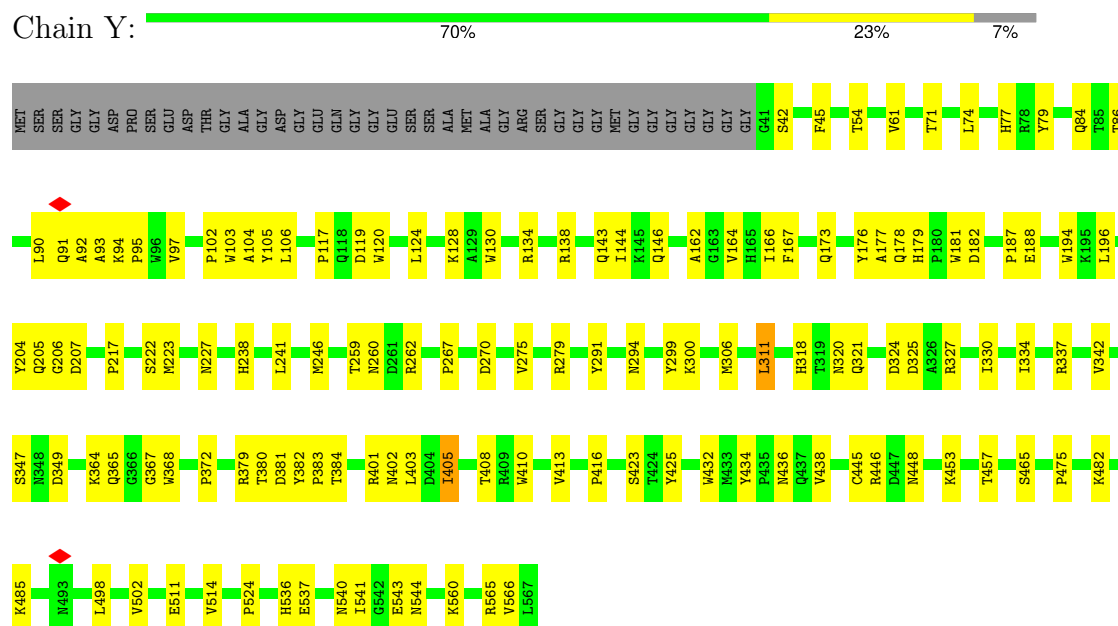
• Molecule 1: VP2

Chain X:



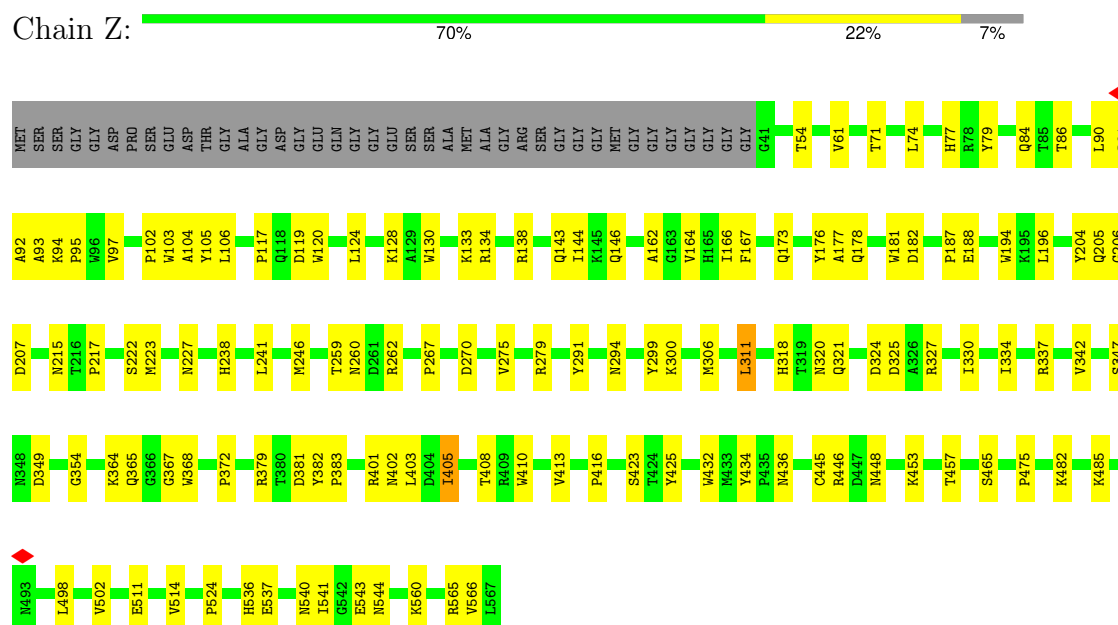
- Molecule 1: VP2

Chain Y:



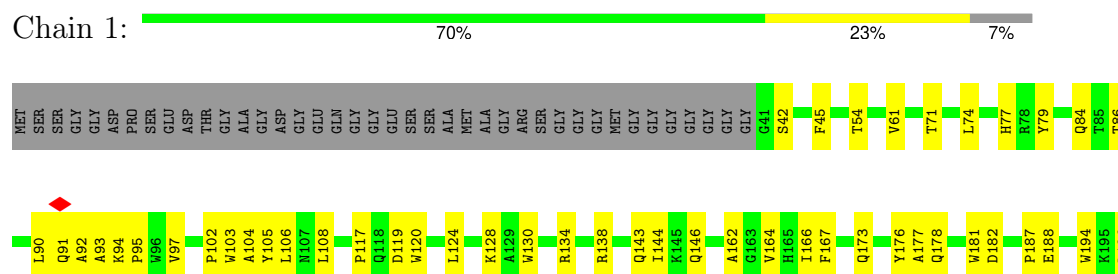
- Molecule 1: VP2

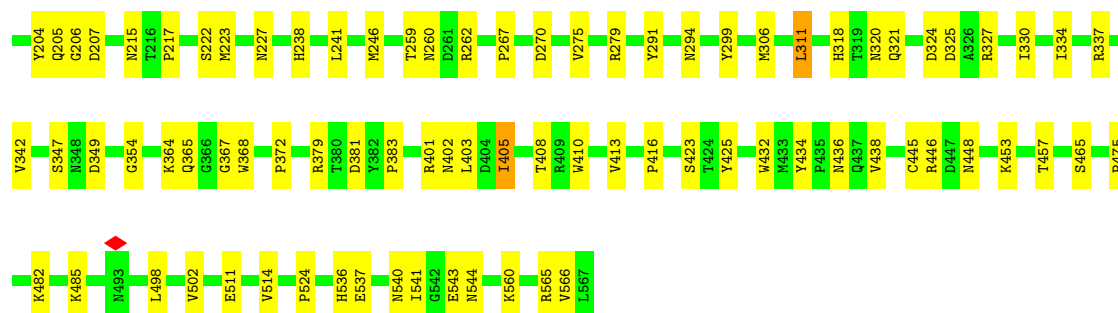
Chain Z:



- Molecule 1: VP2

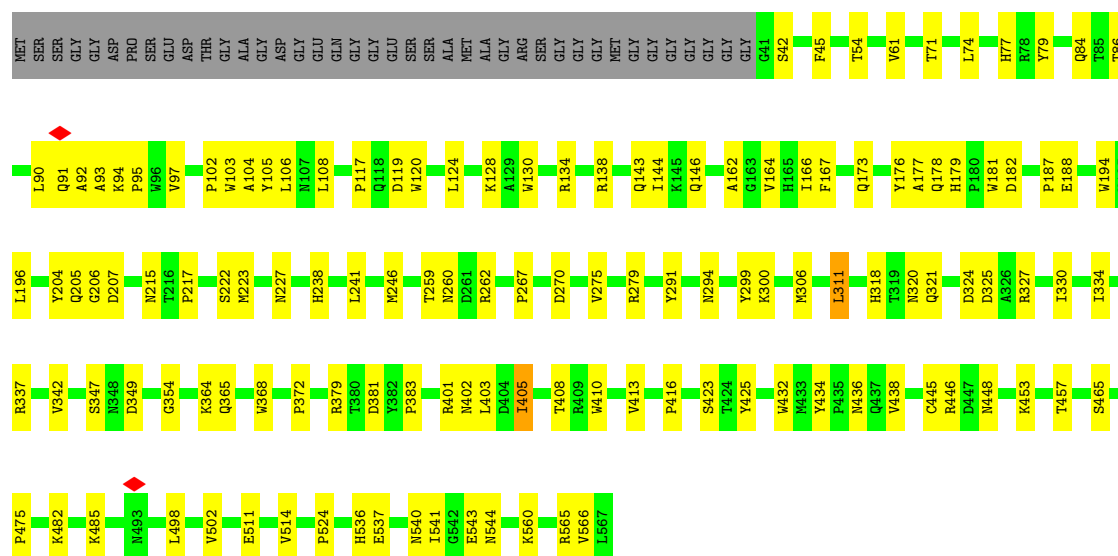
Chain 1:





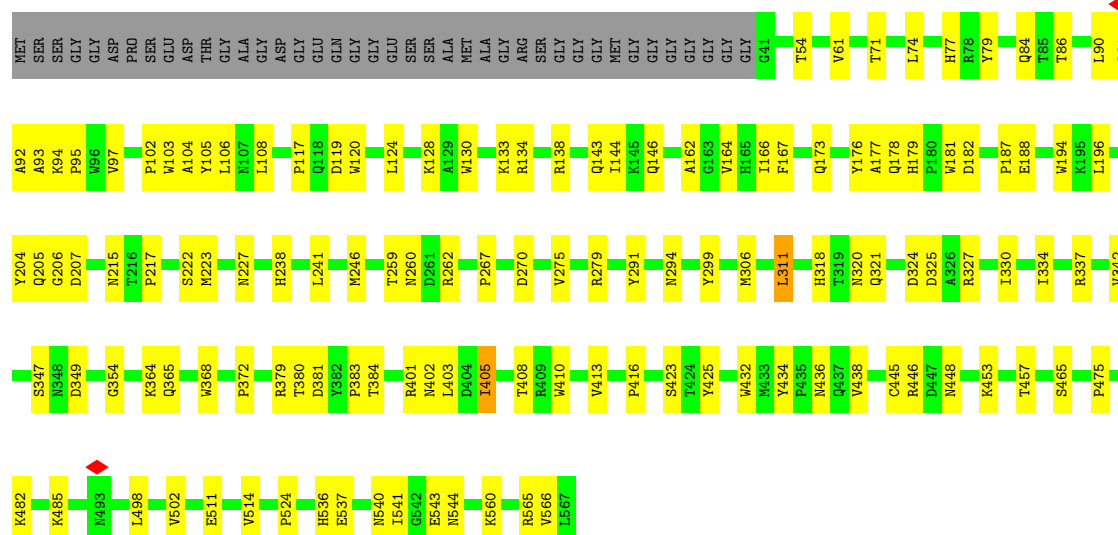
• Molecule 1: VP2

Chain 2: 70% 23% 7%



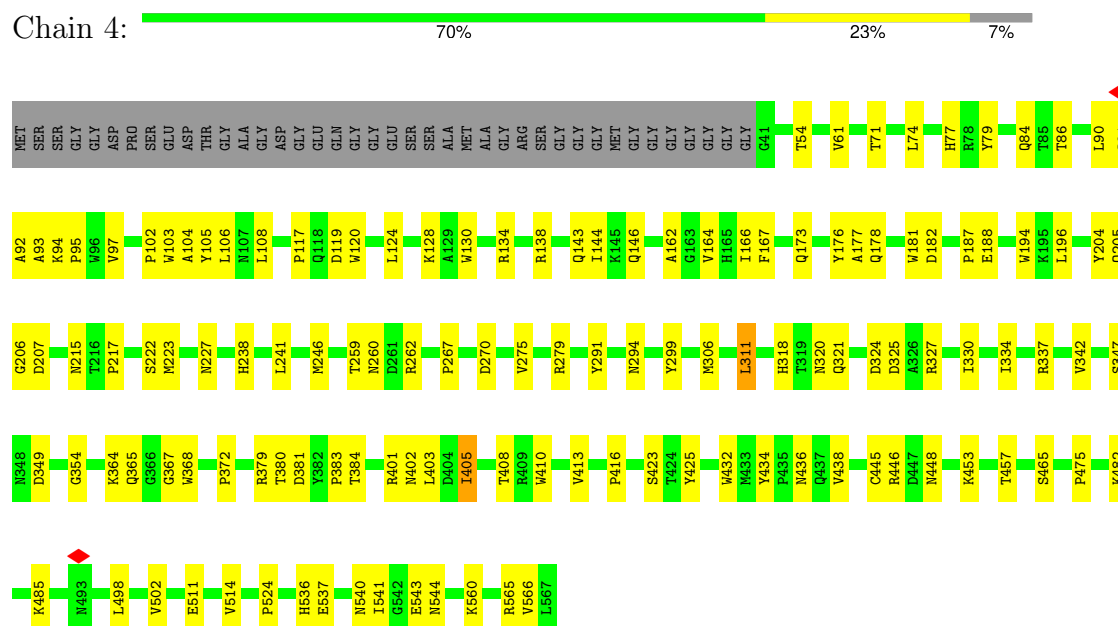
• Molecule 1: VP2

Chain 3: 70% 23% 7%



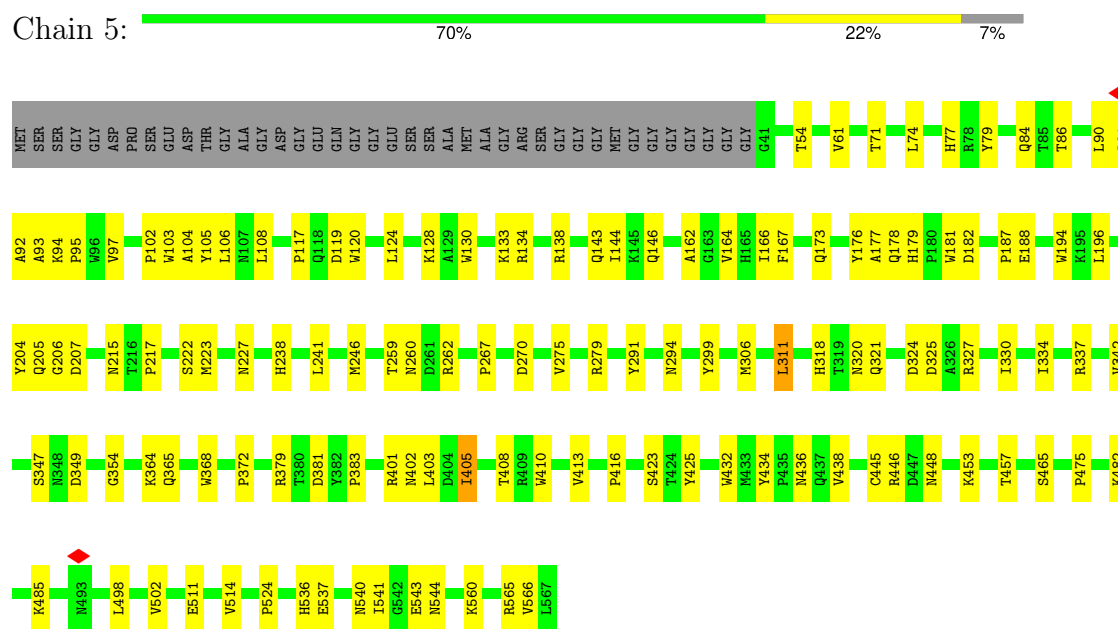
- Molecule 1: VP2

Chain 4:



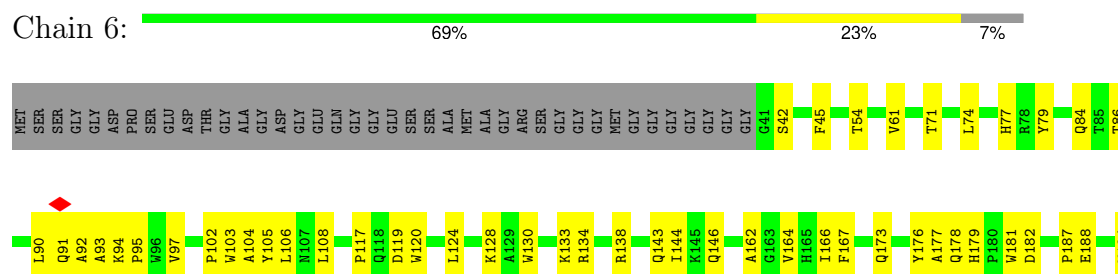
- Molecule 1: VP2

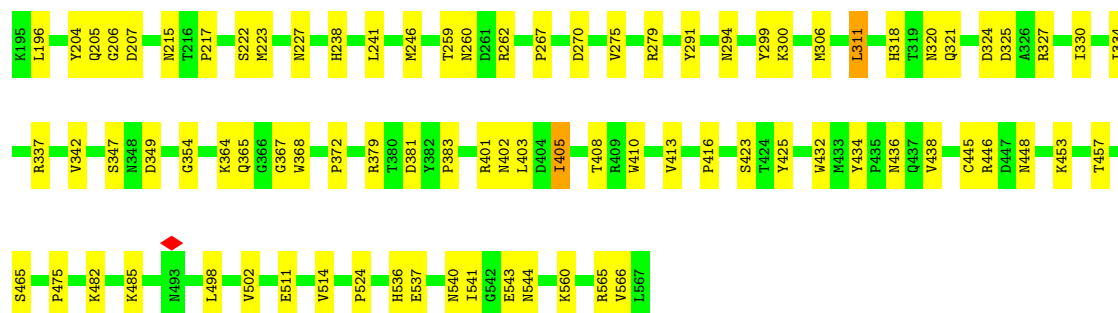
Chain 5:



- Molecule 1: VP2

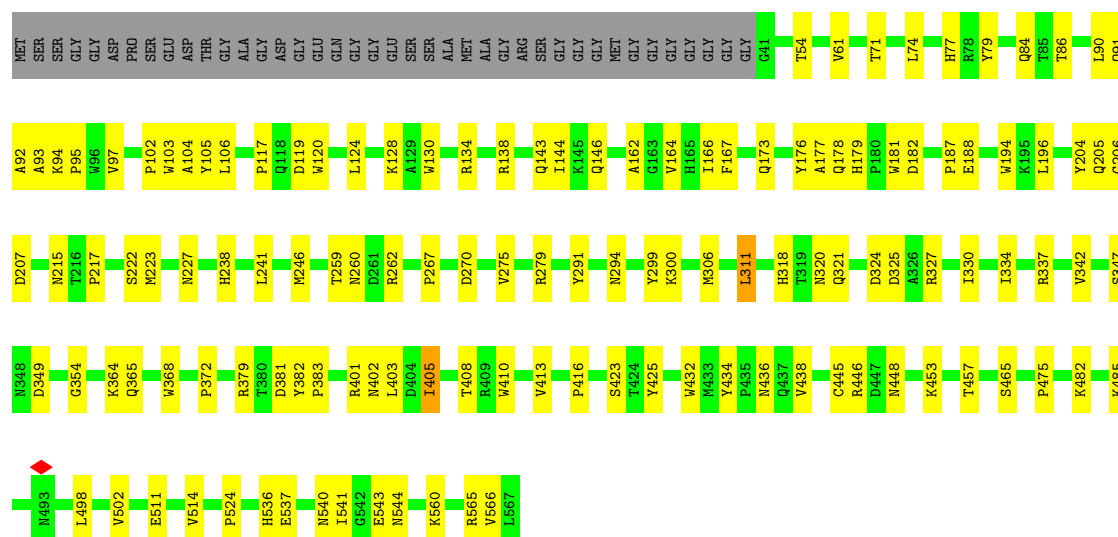
Chain 6:





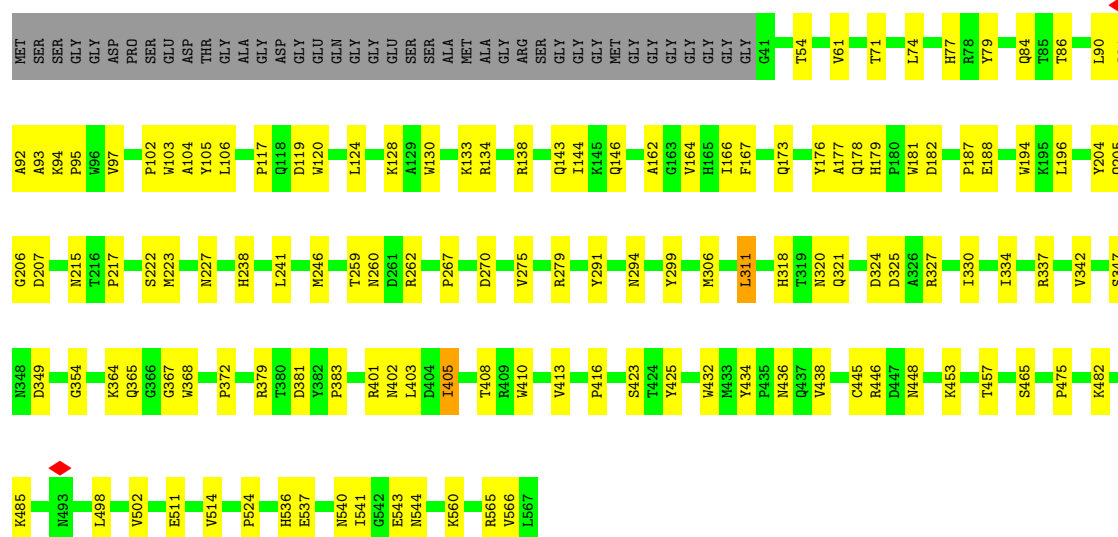
• Molecule 1: VP2

Chain a: 70% 22% 7%



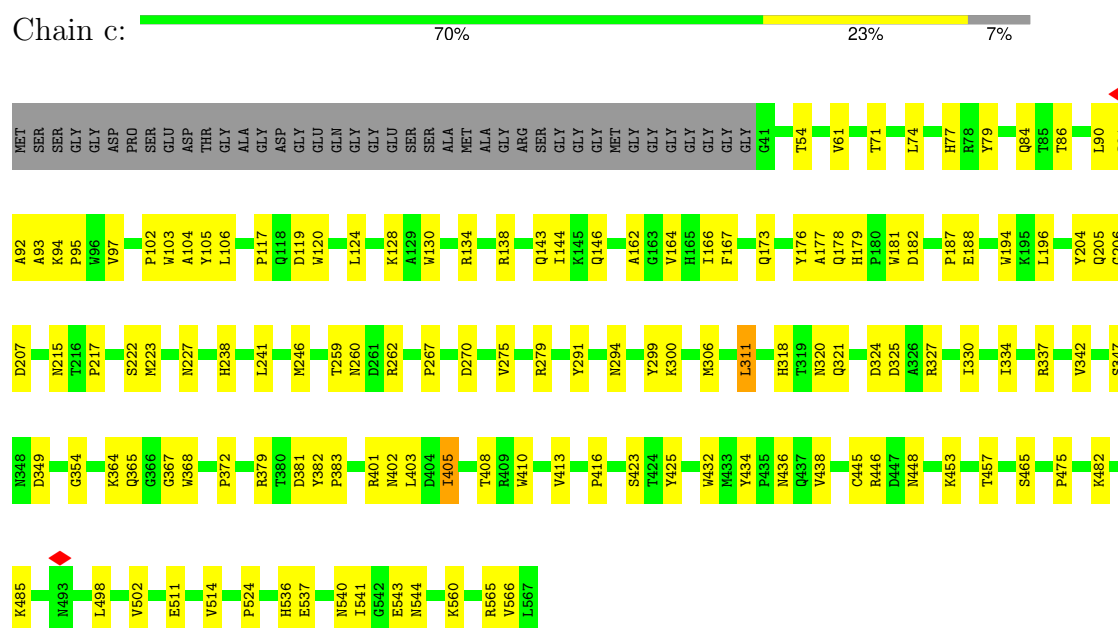
• Molecule 1: VP2

Chain b: 70% 22% 7%



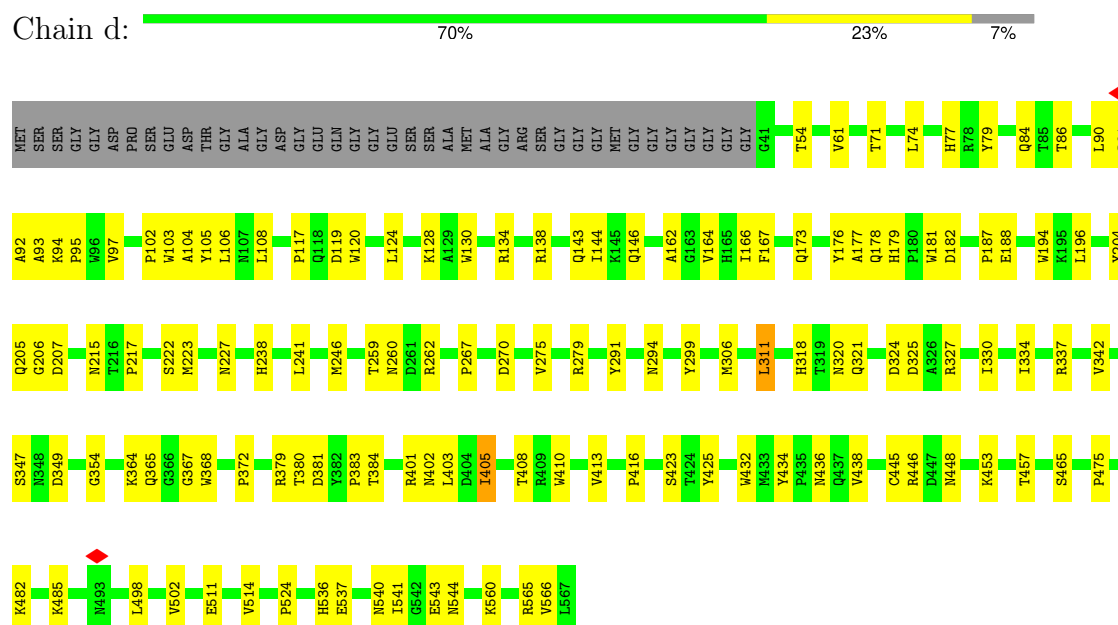
- Molecule 1: VP2

Chain c:



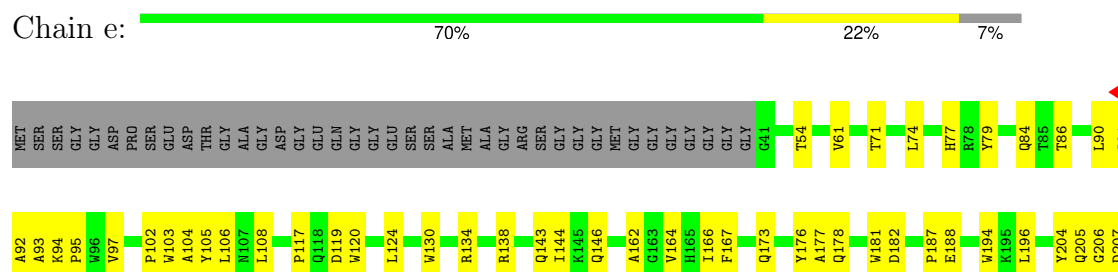
- Molecule 1: VP2

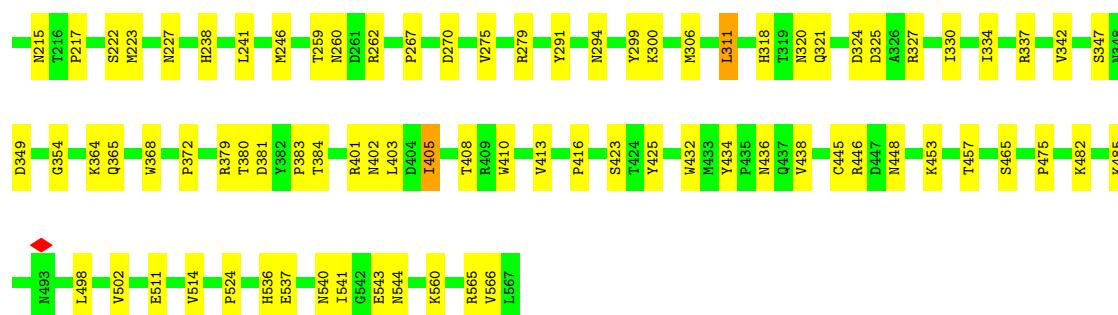
Chain d:



- Molecule 1: VP2

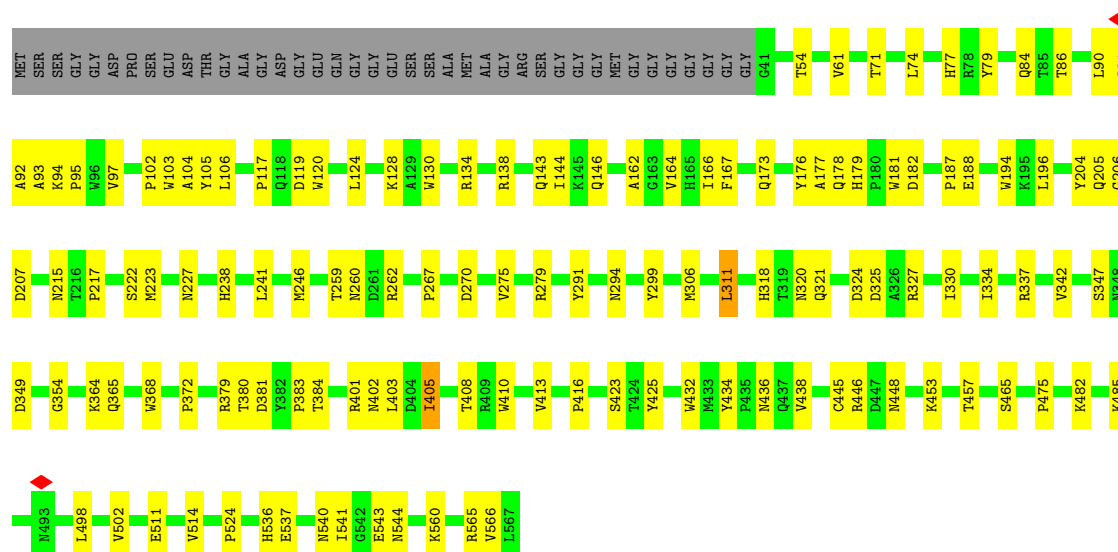
Chain e:





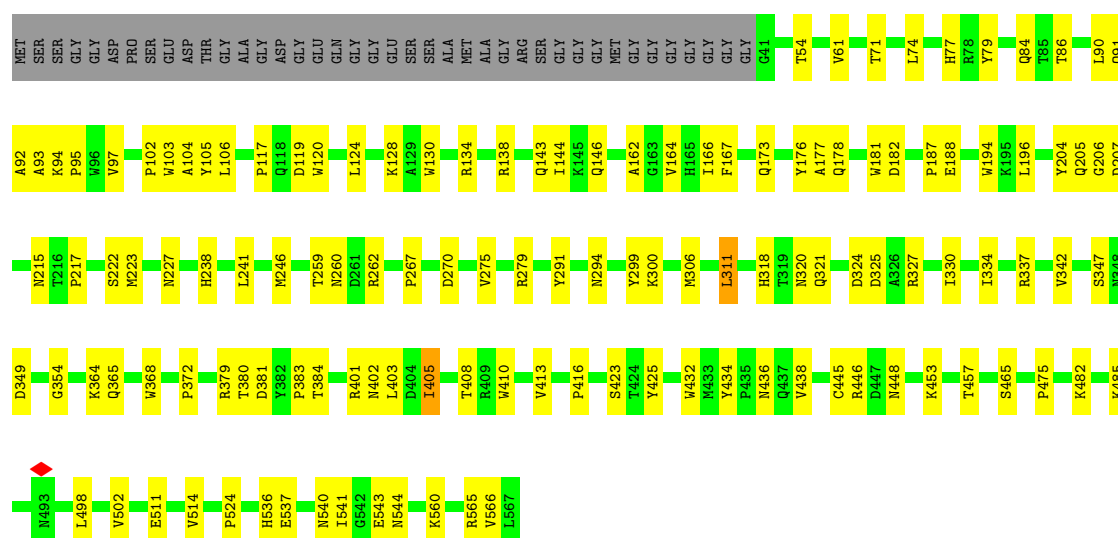
• Molecule 1: VP2

Chain f: 70% 22% 7%



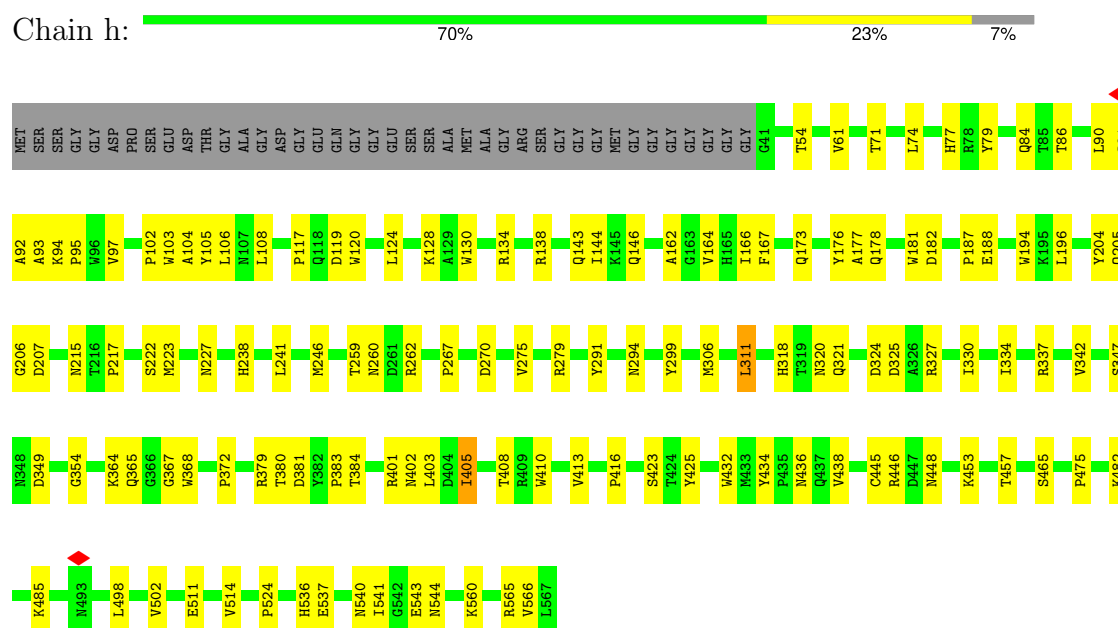
• Molecule 1: VP2

Chain g: 70% 22% 7%



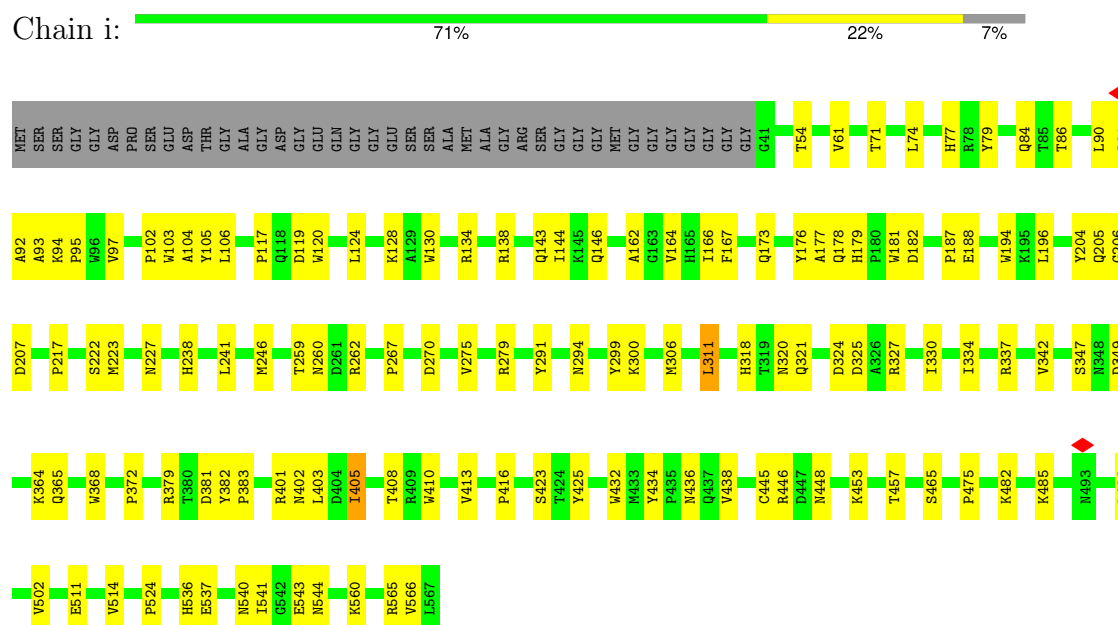
● Molecule 1: VP2

Chain h:



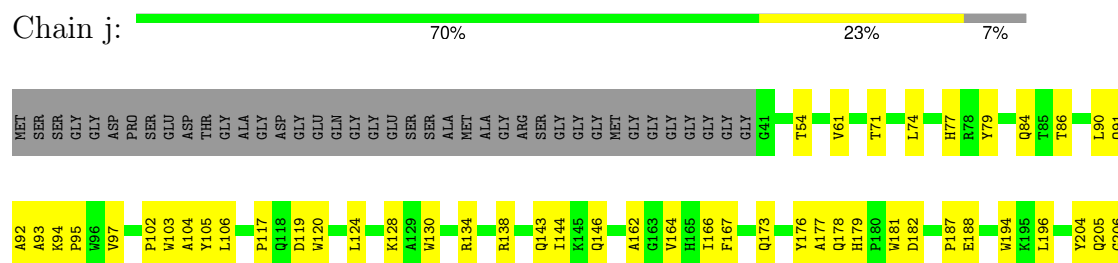
● Molecule 1: VP2

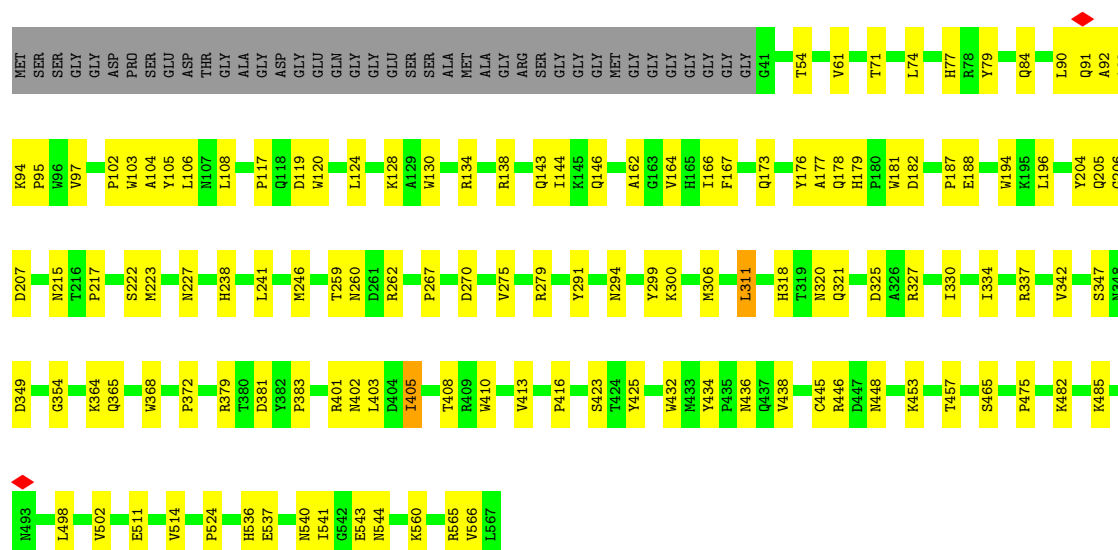
Chain i:

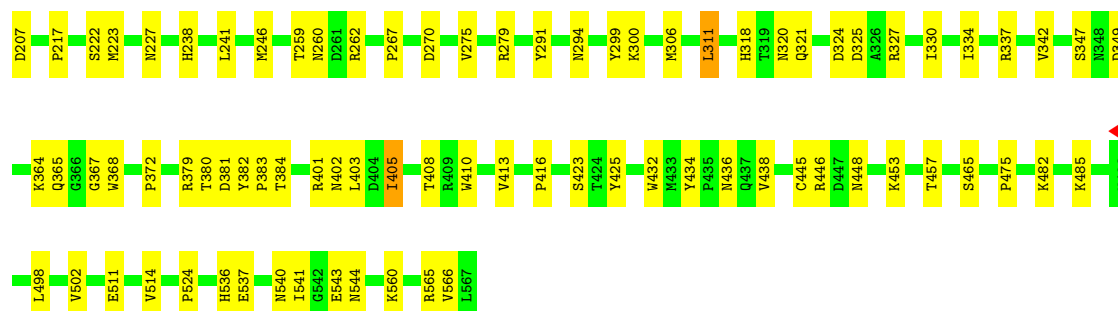


● Molecule 1: VP2

Chain j:

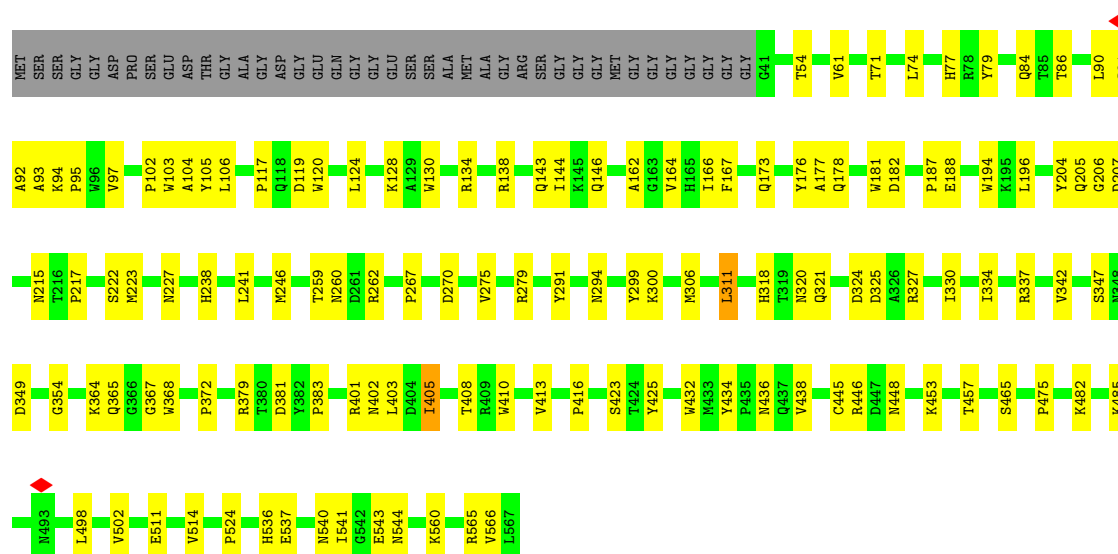






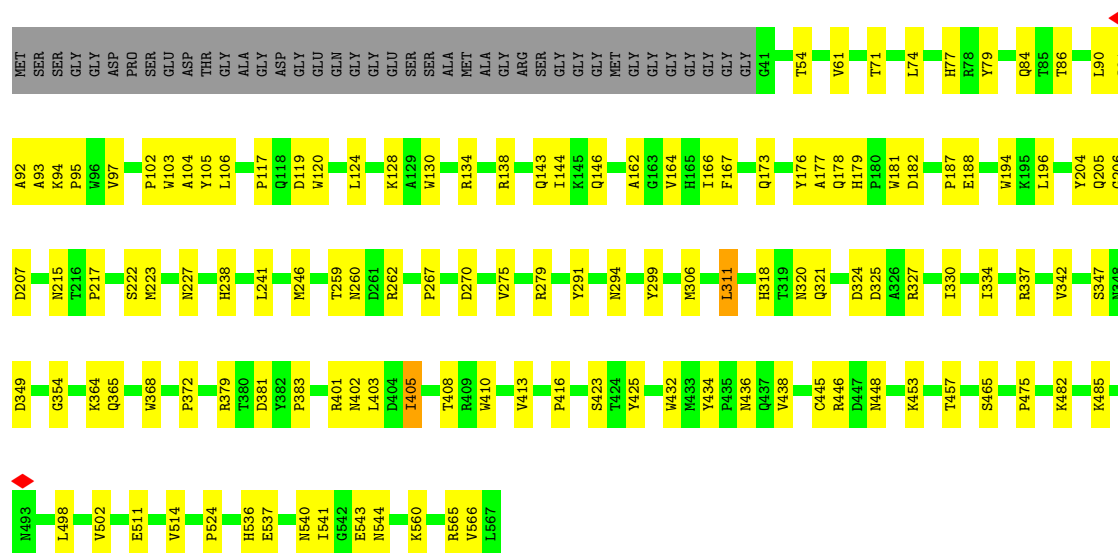
• Molecule 1: VP2

Chain p: 70% 22% 7%

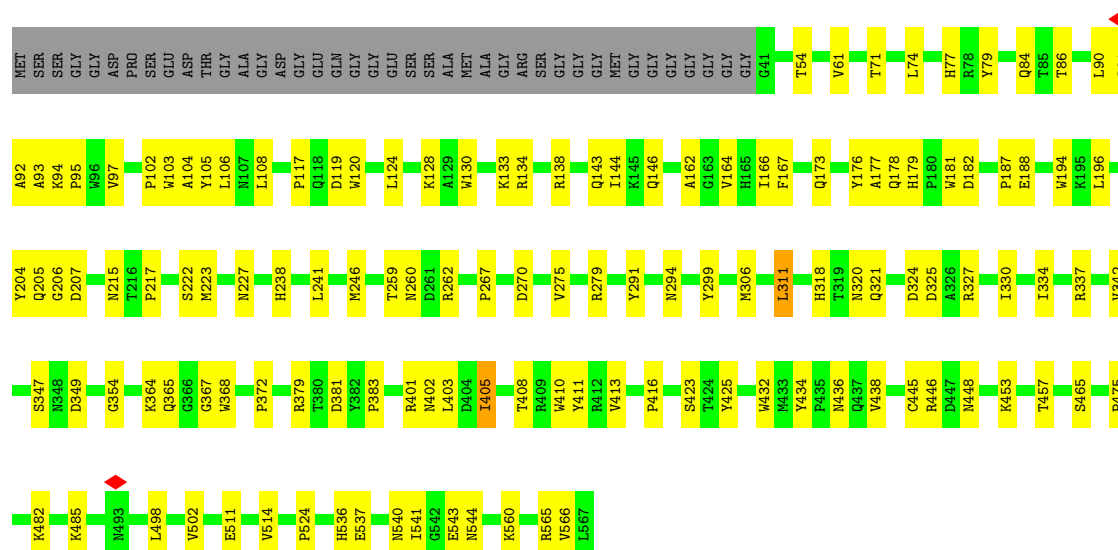


• Molecule 1: VP2

Chain q: 71% 22% 7%



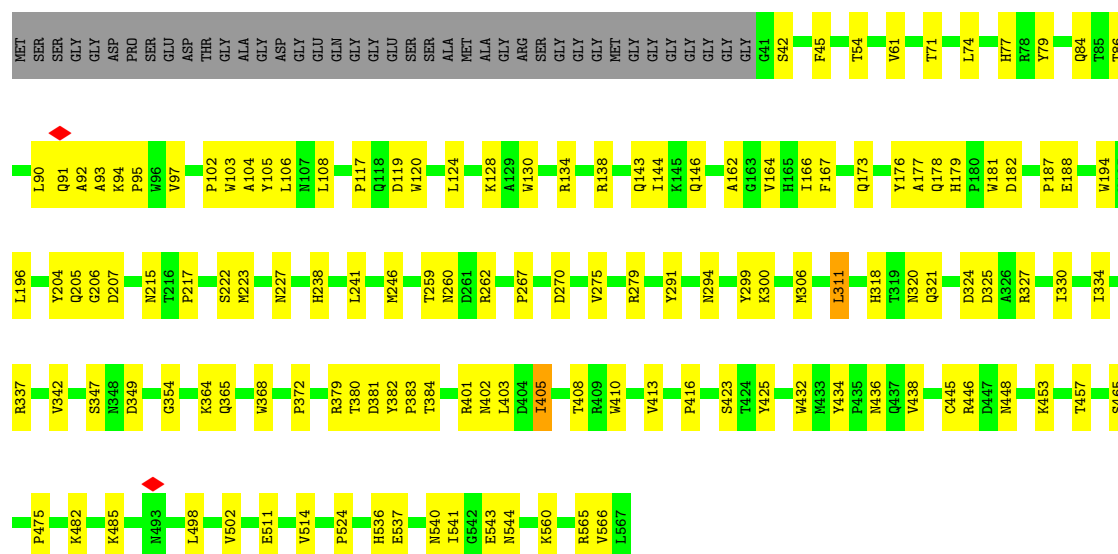
[illegible]





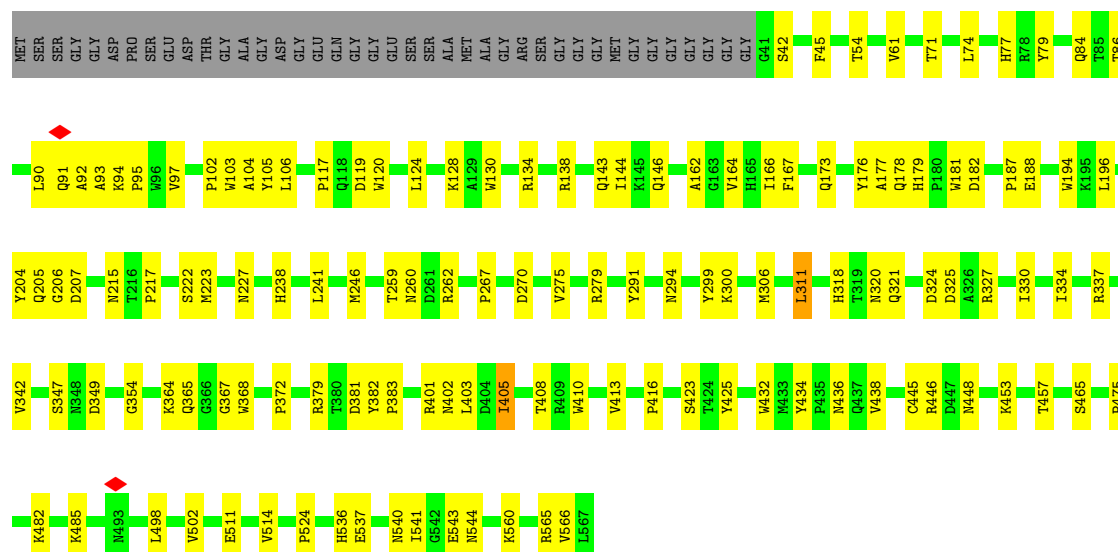
• Molecule 1: VP2

Chain z:

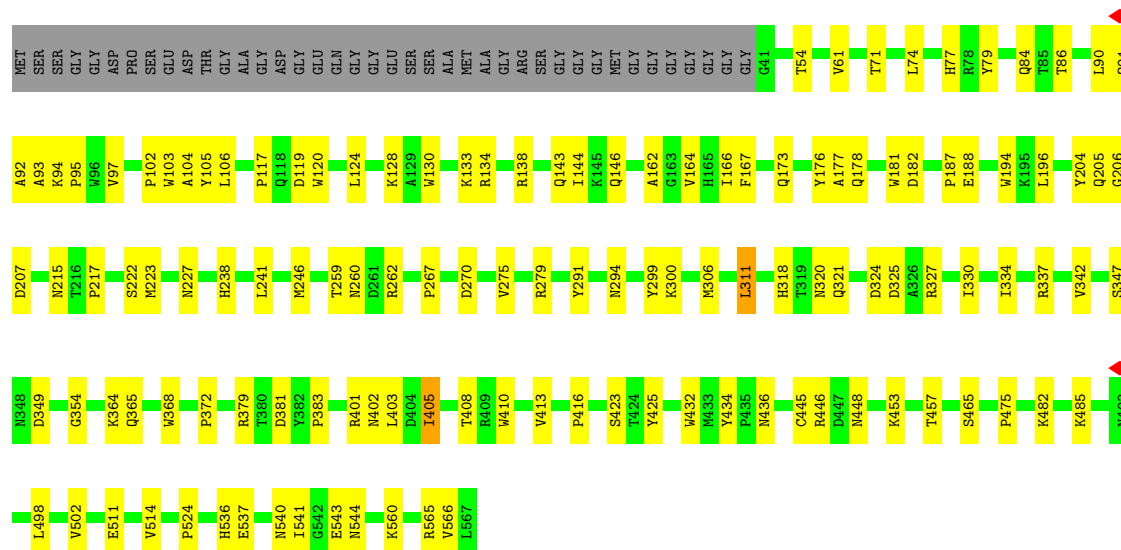


• Molecule 1: VP2

Chain 7:



Chain 8: 71% 22% 7%



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	98388	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 ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	400	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	18.414	Depositor
Minimum map value	-9.059	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.5	Depositor
Map size (\AA)	383.46, 383.46, 383.46	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	0.913, 0.913, 0.913	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.44	0/4383	0.57	0/6001
1	2	0.44	0/4383	0.57	0/6001
1	3	0.44	0/4383	0.57	0/6001
1	4	0.44	0/4383	0.57	0/6001
1	5	0.44	0/4383	0.57	0/6001
1	6	0.44	0/4383	0.57	0/6001
1	7	0.44	0/4383	0.57	0/6001
1	8	0.44	0/4383	0.57	0/6001
1	A	0.44	0/4383	0.57	0/6001
1	B	0.44	0/4383	0.57	0/6001
1	C	0.44	0/4383	0.57	0/6001
1	D	0.44	0/4383	0.57	0/6001
1	E	0.44	0/4383	0.57	0/6001
1	F	0.44	0/4383	0.57	0/6001
1	G	0.44	0/4383	0.57	0/6001
1	H	0.44	0/4383	0.57	0/6001
1	I	0.44	0/4383	0.57	0/6001
1	J	0.44	0/4383	0.57	0/6001
1	K	0.44	0/4383	0.57	0/6001
1	L	0.44	0/4383	0.57	0/6001
1	M	0.44	0/4383	0.57	0/6001
1	N	0.44	0/4383	0.57	0/6001
1	O	0.44	0/4383	0.57	0/6001
1	P	0.44	0/4383	0.57	0/6001
1	Q	0.44	0/4383	0.57	0/6001
1	R	0.44	0/4383	0.57	0/6001
1	S	0.44	0/4383	0.57	0/6001
1	T	0.44	0/4383	0.57	0/6001
1	U	0.44	0/4383	0.57	0/6001
1	V	0.44	0/4383	0.57	0/6001
1	W	0.44	0/4383	0.57	0/6001
1	X	0.44	0/4383	0.57	0/6001
1	Y	0.44	0/4383	0.57	0/6001
1	Z	0.44	0/4383	0.57	0/6001

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.44	0/4383	0.57	0/6001
1	b	0.44	0/4383	0.57	0/6001
1	c	0.44	0/4383	0.57	0/6001
1	d	0.44	0/4383	0.57	0/6001
1	e	0.44	0/4383	0.57	0/6001
1	f	0.44	0/4383	0.57	0/6001
1	g	0.44	0/4383	0.57	0/6001
1	h	0.44	0/4383	0.57	0/6001
1	i	0.44	0/4383	0.57	0/6001
1	j	0.44	0/4383	0.57	0/6001
1	k	0.44	0/4383	0.57	0/6001
1	l	0.44	0/4383	0.57	0/6001
1	m	0.44	0/4383	0.57	0/6001
1	n	0.44	0/4383	0.57	0/6001
1	o	0.44	0/4383	0.57	0/6001
1	p	0.44	0/4383	0.57	0/6001
1	q	0.44	0/4383	0.57	0/6001
1	r	0.44	0/4383	0.57	0/6001
1	s	0.44	0/4383	0.57	0/6001
1	t	0.44	0/4383	0.57	0/6001
1	u	0.44	0/4383	0.57	0/6001
1	v	0.44	0/4383	0.57	0/6001
1	w	0.44	0/4383	0.57	0/6001
1	x	0.44	0/4383	0.57	0/6001
1	y	0.44	0/4383	0.57	0/6001
1	z	0.44	0/4383	0.57	0/6001
All	All	0.44	0/262980	0.57	0/360060

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	4241	0	3954	132	0
1	2	4241	0	3954	132	0
1	3	4241	0	3954	134	0
1	4	4241	0	3954	131	0
1	5	4241	0	3954	133	0
1	6	4241	0	3954	135	0
1	7	4241	0	3954	133	0
1	8	4241	0	3954	129	0
1	A	4241	0	3954	131	0
1	B	4241	0	3954	131	0
1	C	4241	0	3954	131	0
1	D	4241	0	3954	129	0
1	E	4241	0	3954	132	0
1	F	4241	0	3954	131	0
1	G	4241	0	3954	134	0
1	H	4241	0	3954	131	0
1	I	4241	0	3954	133	0
1	J	4241	0	3954	135	0
1	K	4241	0	3954	135	0
1	L	4241	0	3954	137	0
1	M	4241	0	3954	134	0
1	N	4241	0	3954	130	0
1	O	4241	0	3954	131	0
1	P	4241	0	3954	132	0
1	Q	4241	0	3954	134	0
1	R	4241	0	3954	133	0
1	S	4241	0	3954	132	0
1	T	4241	0	3954	130	0
1	U	4241	0	3954	134	0
1	V	4241	0	3954	133	0
1	W	4241	0	3954	135	0
1	X	4241	0	3954	131	0
1	Y	4241	0	3954	133	0
1	Z	4241	0	3954	130	0
1	a	4241	0	3954	132	0
1	b	4241	0	3954	134	0
1	c	4241	0	3954	131	0
1	d	4241	0	3954	133	0
1	e	4241	0	3954	129	0
1	f	4241	0	3954	129	0
1	g	4241	0	3954	130	0
1	h	4241	0	3954	132	0
1	i	4241	0	3954	131	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4241	0	3954	133	0
1	k	4241	0	3954	134	0
1	l	4241	0	3954	132	0
1	m	4241	0	3954	135	0
1	n	4241	0	3954	136	0
1	o	4241	0	3954	135	0
1	p	4241	0	3954	133	0
1	q	4241	0	3954	132	0
1	r	4241	0	3954	133	0
1	s	4241	0	3954	129	0
1	t	4241	0	3954	136	0
1	u	4241	0	3954	129	0
1	v	4241	0	3954	133	0
1	w	4241	0	3954	132	0
1	x	4241	0	3954	135	0
1	y	4241	0	3954	131	0
1	z	4241	0	3954	134	0
All	All	254460	0	237240	6170	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 (6170) 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:M:90:LEU:HD12	1:M:365:GLN:NE2	1.49	1.28
1:S:90:LEU:HD12	1:S:365:GLN:NE2	1.49	1.28
1:a:90:LEU:HD12	1:a:365:GLN:NE2	1.49	1.28
1:b:90:LEU:HD12	1:b:365:GLN:NE2	1.49	1.28
1:t:90:LEU:HD12	1:t:365:GLN:NE2	1.49	1.28
1:A:90:LEU:HD12	1:A:365:GLN:NE2	1.49	1.28
1:C:90:LEU:HD12	1:C:365:GLN:NE2	1.49	1.28
1:L:90:LEU:HD12	1:L:365:GLN:NE2	1.49	1.28
1:l:90:LEU:HD12	1:l:365:GLN:NE2	1.49	1.28
1:p:90:LEU:HD12	1:p:365:GLN:NE2	1.49	1.28
1:z:90:LEU:HD12	1:z:365:GLN:NE2	1.49	1.27
1:W:90:LEU:HD12	1:W:365:GLN:NE2	1.49	1.27
1:h:90:LEU:HD12	1:h:365:GLN:NE2	1.49	1.27
1:4:90:LEU:HD12	1:4:365:GLN:NE2	1.49	1.27
1:U:90:LEU:HD12	1:U:365:GLN:NE2	1.49	1.26
1:3:90:LEU:HD12	1:3:365:GLN:NE2	1.49	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:90:LEU:HD12	1:5:365:GLN:NE2	1.49	1.26
1:m:90:LEU:HD12	1:m:365:GLN:NE2	1.49	1.26
1:o:90:LEU:HD12	1:o:365:GLN:NE2	1.49	1.26
1:l:90:LEU:HD12	1:l:365:GLN:NE2	1.49	1.26
1:r:90:LEU:HD12	1:r:365:GLN:NE2	1.49	1.26
1:z:90:LEU:HD12	1:z:365:GLN:NE2	1.49	1.26
1:p:90:LEU:HD12	1:p:365:GLN:NE2	1.49	1.26
1:d:90:LEU:HD12	1:d:365:GLN:NE2	1.49	1.26
1:k:90:LEU:HD12	1:k:365:GLN:NE2	1.49	1.26
1:8:90:LEU:HD12	1:8:365:GLN:NE2	1.49	1.26
1:Q:90:LEU:HD12	1:Q:365:GLN:NE2	1.49	1.26
1:2:90:LEU:HD12	1:2:365:GLN:NE2	1.49	1.26
1:r:90:LEU:HD12	1:r:365:GLN:NE2	1.49	1.26
1:H:90:LEU:HD12	1:H:365:GLN:NE2	1.49	1.25
1:e:90:LEU:HD12	1:e:365:GLN:NE2	1.49	1.25
1:D:90:LEU:HD12	1:D:365:GLN:NE2	1.49	1.25
1:6:90:LEU:HD12	1:6:365:GLN:NE2	1.49	1.25
1:G:90:LEU:HD12	1:G:365:GLN:NE2	1.49	1.25
1:N:90:LEU:HD12	1:N:365:GLN:NE2	1.49	1.25
1:X:90:LEU:HD12	1:X:365:GLN:NE2	1.49	1.25
1:Y:90:LEU:HD12	1:Y:365:GLN:NE2	1.49	1.25
1:q:90:LEU:HD12	1:q:365:GLN:NE2	1.49	1.25
1:v:90:LEU:HD12	1:v:365:GLN:NE2	1.49	1.25
1:y:90:LEU:HD12	1:y:365:GLN:NE2	1.49	1.25
1:E:90:LEU:HD12	1:E:365:GLN:NE2	1.49	1.25
1:J:90:LEU:HD12	1:J:365:GLN:NE2	1.49	1.25
1:K:90:LEU:HD12	1:K:365:GLN:NE2	1.49	1.25
1:V:90:LEU:HD12	1:V:365:GLN:NE2	1.49	1.25
1:x:90:LEU:HD12	1:x:365:GLN:NE2	1.49	1.25
1:7:90:LEU:HD12	1:7:365:GLN:NE2	1.49	1.25
1:F:90:LEU:HD12	1:F:365:GLN:NE2	1.49	1.25
1:c:90:LEU:HD12	1:c:365:GLN:NE2	1.49	1.25
1:g:90:LEU:HD12	1:g:365:GLN:NE2	1.49	1.25
1:i:90:LEU:HD12	1:i:365:GLN:NE2	1.49	1.25
1:j:90:LEU:HD12	1:j:365:GLN:NE2	1.49	1.25
1:n:90:LEU:HD12	1:n:365:GLN:NE2	1.49	1.25
1:s:90:LEU:HD12	1:s:365:GLN:NE2	1.49	1.24
1:w:90:LEU:HD12	1:w:365:GLN:NE2	1.49	1.24
1:T:90:LEU:HD12	1:T:365:GLN:NE2	1.49	1.24
1:1:90:LEU:HD12	1:1:365:GLN:NE2	1.49	1.24
1:B:90:LEU:HD12	1:B:365:GLN:NE2	1.49	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:90:LEU:HD12	1:u:365:GLN:NE2	1.49	1.24
1:O:90:LEU:HD12	1:O:365:GLN:NE2	1.49	1.23
1:f:90:LEU:HD12	1:f:365:GLN:NE2	1.49	1.23
1:x:90:LEU:HD13	1:x:342:VAL:CG1	2.05	0.87
1:M:90:LEU:HD13	1:M:342:VAL:CG1	2.05	0.87
1:P:90:LEU:HD13	1:P:342:VAL:CG1	2.05	0.87
1:4:90:LEU:HD13	1:4:342:VAL:CG1	2.05	0.87
1:h:90:LEU:HD13	1:h:342:VAL:CG1	2.05	0.87
1:C:90:LEU:HD13	1:C:342:VAL:CG1	2.05	0.87
1:K:90:LEU:HD13	1:K:342:VAL:CG1	2.05	0.87
1:a:90:LEU:HD13	1:a:342:VAL:CG1	2.05	0.87
1:b:90:LEU:HD13	1:b:342:VAL:CG1	2.05	0.87
1:d:90:LEU:HD13	1:d:342:VAL:CG1	2.05	0.87
1:m:90:LEU:HD13	1:m:342:VAL:CG1	2.05	0.87
1:N:90:LEU:HD13	1:N:342:VAL:CG1	2.05	0.87
1:R:90:LEU:HD13	1:R:342:VAL:CG1	2.05	0.87
1:U:90:LEU:HD13	1:U:342:VAL:CG1	2.05	0.87
1:k:90:LEU:HD13	1:k:342:VAL:CG1	2.05	0.87
1:c:90:LEU:HD13	1:c:342:VAL:CG1	2.05	0.87
1:s:90:LEU:HD13	1:s:342:VAL:CG1	2.05	0.87
1:w:90:LEU:HD13	1:w:342:VAL:CG1	2.05	0.87
1:F:90:LEU:HD13	1:F:342:VAL:CG1	2.05	0.87
1:I:90:LEU:HD13	1:I:342:VAL:CG1	2.05	0.87
1:1:90:LEU:HD13	1:1:342:VAL:CG1	2.05	0.87
1:G:90:LEU:HD13	1:G:342:VAL:CG1	2.05	0.87
1:K:90:LEU:HD12	1:K:365:GLN:CD	2.00	0.87
1:W:90:LEU:HD13	1:W:342:VAL:CG1	2.05	0.87
1:n:90:LEU:HD13	1:n:342:VAL:CG1	2.05	0.87
1:t:90:LEU:HD13	1:t:342:VAL:CG1	2.05	0.87
1:z:90:LEU:HD13	1:z:342:VAL:CG1	2.05	0.87
1:H:90:LEU:HD12	1:H:365:GLN:CD	2.00	0.86
1:L:90:LEU:HD13	1:L:342:VAL:CG1	2.05	0.86
1:o:90:LEU:HD13	1:o:342:VAL:CG1	2.05	0.86
1:u:90:LEU:HD12	1:u:365:GLN:CD	2.00	0.86
1:x:90:LEU:HD12	1:x:365:GLN:CD	2.00	0.86
1:B:90:LEU:HD12	1:B:365:GLN:CD	2.00	0.86
1:O:90:LEU:HD13	1:O:342:VAL:CG1	2.05	0.86
1:T:90:LEU:HD12	1:T:365:GLN:CD	2.00	0.86
1:j:90:LEU:HD13	1:j:342:VAL:CG1	2.05	0.86
1:y:90:LEU:HD12	1:y:365:GLN:CD	2.00	0.86
1:O:90:LEU:HD12	1:O:365:GLN:CD	2.00	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:90:LEU:HD13	1:V:342:VAL:CG1	2.05	0.86
1:f:90:LEU:HD12	1:f:365:GLN:CD	2.00	0.86
1:g:90:LEU:HD12	1:g:365:GLN:CD	2.00	0.86
1:E:90:LEU:HD12	1:E:365:GLN:CD	2.00	0.86
1:N:90:LEU:HD12	1:N:365:GLN:CD	2.00	0.86
1:3:90:LEU:HD13	1:3:342:VAL:CG1	2.05	0.86
1:c:90:LEU:HD12	1:c:365:GLN:CD	2.00	0.86
1:f:90:LEU:HD13	1:f:342:VAL:CG1	2.05	0.86
1:q:90:LEU:HD12	1:q:365:GLN:CD	2.00	0.86
1:w:90:LEU:HD12	1:w:365:GLN:CD	2.00	0.86
1:1:90:LEU:HD12	1:1:365:GLN:CD	2.00	0.86
1:e:90:LEU:HD13	1:e:342:VAL:CG1	2.05	0.86
1:8:90:LEU:HD13	1:8:342:VAL:CG1	2.05	0.86
1:A:90:LEU:HD13	1:A:342:VAL:CG1	2.05	0.86
1:D:90:LEU:HD13	1:D:342:VAL:CG1	2.05	0.86
1:5:90:LEU:HD13	1:5:342:VAL:CG1	2.05	0.86
1:H:90:LEU:HD13	1:H:342:VAL:CG1	2.05	0.86
1:Z:90:LEU:HD13	1:Z:342:VAL:CG1	2.05	0.86
1:S:90:LEU:HD13	1:S:342:VAL:CG1	2.05	0.86
1:p:90:LEU:HD13	1:p:342:VAL:CG1	2.05	0.86
1:J:90:LEU:HD13	1:J:342:VAL:CG1	2.05	0.86
1:Y:90:LEU:HD13	1:Y:342:VAL:CG1	2.05	0.86
1:Z:90:LEU:HD12	1:Z:365:GLN:CD	2.00	0.86
1:4:90:LEU:HD12	1:4:365:GLN:CD	2.00	0.86
1:r:90:LEU:HD13	1:r:342:VAL:CG1	2.05	0.86
1:v:90:LEU:HD13	1:v:342:VAL:CG1	2.05	0.86
1:y:90:LEU:HD13	1:y:342:VAL:CG1	2.05	0.86
1:B:90:LEU:HD13	1:B:342:VAL:CG1	2.05	0.86
1:I:90:LEU:HD12	1:I:365:GLN:CD	2.00	0.86
1:Q:90:LEU:HD13	1:Q:342:VAL:CG1	2.05	0.86
1:2:90:LEU:HD13	1:2:342:VAL:CG1	2.05	0.86
1:h:90:LEU:HD12	1:h:365:GLN:CD	2.00	0.86
1:i:90:LEU:HD13	1:i:342:VAL:CG1	2.05	0.86
1:l:90:LEU:HD13	1:l:342:VAL:CG1	2.05	0.86
1:8:90:LEU:HD12	1:8:365:GLN:CD	2.00	0.86
1:E:90:LEU:HD13	1:E:342:VAL:CG1	2.05	0.85
1:X:90:LEU:HD13	1:X:342:VAL:CG1	2.05	0.85
1:7:90:LEU:HD13	1:7:342:VAL:CG1	2.05	0.85
1:C:90:LEU:HD12	1:C:365:GLN:CD	2.00	0.85
1:6:90:LEU:HD13	1:6:342:VAL:CG1	2.05	0.85
1:a:90:LEU:HD12	1:a:365:GLN:CD	2.00	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:90:LEU:HD12	1:o:365:GLN:CD	2.00	0.85
1:q:90:LEU:HD13	1:q:342:VAL:CG1	2.05	0.85
1:u:90:LEU:HD13	1:u:342:VAL:CG1	2.05	0.85
1:R:90:LEU:HD12	1:R:365:GLN:CD	2.00	0.85
1:T:90:LEU:HD13	1:T:342:VAL:CG1	2.05	0.85
1:5:90:LEU:HD12	1:5:365:GLN:CD	2.00	0.85
1:J:90:LEU:HD12	1:J:365:GLN:CD	2.00	0.85
1:Y:90:LEU:HD12	1:Y:365:GLN:CD	2.00	0.85
1:3:90:LEU:HD12	1:3:365:GLN:CD	2.00	0.85
1:g:90:LEU:HD13	1:g:342:VAL:CG1	2.05	0.85
1:M:90:LEU:HD12	1:M:365:GLN:CD	2.00	0.85
1:b:90:LEU:HD12	1:b:365:GLN:CD	2.00	0.85
1:k:90:LEU:HD12	1:k:365:GLN:CD	2.00	0.85
1:n:207:ASP:HB2	1:n:342:VAL:HG23	1.59	0.85
1:v:207:ASP:HB2	1:v:342:VAL:HG23	1.59	0.85
1:G:207:ASP:HB2	1:G:342:VAL:HG23	1.59	0.85
1:J:207:ASP:HB2	1:J:342:VAL:HG23	1.59	0.85
1:i:90:LEU:HD12	1:i:365:GLN:CD	2.00	0.85
1:j:90:LEU:HD12	1:j:365:GLN:CD	2.00	0.85
1:7:90:LEU:HD12	1:7:365:GLN:CD	2.00	0.85
1:G:90:LEU:HD12	1:G:365:GLN:CD	2.00	0.85
1:X:90:LEU:HD12	1:X:365:GLN:CD	2.00	0.85
1:l:90:LEU:HD12	1:l:365:GLN:CD	2.00	0.85
1:v:90:LEU:HD12	1:v:365:GLN:CD	2.00	0.85
1:V:90:LEU:HD12	1:V:365:GLN:CD	2.00	0.85
1:e:207:ASP:HB2	1:e:342:VAL:HG23	1.59	0.85
1:r:90:LEU:HD12	1:r:365:GLN:CD	2.00	0.85
1:S:90:LEU:HD12	1:S:365:GLN:CD	2.00	0.85
1:W:90:LEU:HD12	1:W:365:GLN:CD	2.00	0.85
1:6:90:LEU:HD12	1:6:365:GLN:CD	2.00	0.85
1:A:90:LEU:HD12	1:A:365:GLN:CD	2.00	0.85
1:D:207:ASP:HB2	1:D:342:VAL:HG23	1.59	0.85
1:Q:90:LEU:HD12	1:Q:365:GLN:CD	2.00	0.85
1:e:90:LEU:HD12	1:e:365:GLN:CD	2.00	0.85
1:n:90:LEU:HD12	1:n:365:GLN:CD	2.00	0.85
1:p:90:LEU:HD12	1:p:365:GLN:CD	2.00	0.85
1:z:90:LEU:HD12	1:z:365:GLN:CD	2.00	0.85
1:E:207:ASP:HB2	1:E:342:VAL:HG23	1.59	0.84
1:T:207:ASP:HB2	1:T:342:VAL:HG23	1.59	0.84
1:Z:207:ASP:HB2	1:Z:342:VAL:HG23	1.59	0.84
1:2:90:LEU:HD12	1:2:365:GLN:CD	2.00	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:207:ASP:HB2	1:g:342:VAL:HG23	1.59	0.84
1:j:207:ASP:HB2	1:j:342:VAL:HG23	1.59	0.84
1:t:90:LEU:HD12	1:t:365:GLN:CD	2.00	0.84
1:8:207:ASP:HB2	1:8:342:VAL:HG23	1.59	0.84
1:D:90:LEU:HD12	1:D:365:GLN:CD	2.00	0.84
1:L:90:LEU:HD12	1:L:365:GLN:CD	2.00	0.84
1:L:207:ASP:HB2	1:L:342:VAL:HG23	1.59	0.84
1:d:90:LEU:HD12	1:d:365:GLN:CD	2.00	0.84
1:t:207:ASP:HB2	1:t:342:VAL:HG23	1.59	0.84
1:P:90:LEU:HD12	1:P:365:GLN:CD	2.00	0.84
1:V:207:ASP:HB2	1:V:342:VAL:HG23	1.59	0.84
1:q:207:ASP:HB2	1:q:342:VAL:HG23	1.59	0.84
1:6:207:ASP:HB2	1:6:342:VAL:HG23	1.59	0.84
1:o:207:ASP:HB2	1:o:342:VAL:HG23	1.59	0.84
1:N:207:ASP:HB2	1:N:342:VAL:HG23	1.59	0.84
1:c:207:ASP:HB2	1:c:342:VAL:HG23	1.59	0.84
1:I:207:ASP:HB2	1:I:342:VAL:HG23	1.59	0.84
1:U:90:LEU:HD12	1:U:365:GLN:CD	2.00	0.84
1:F:90:LEU:HD12	1:F:365:GLN:CD	2.00	0.84
1:2:207:ASP:HB2	1:2:342:VAL:HG23	1.59	0.84
1:l:207:ASP:HB2	1:l:342:VAL:HG23	1.59	0.84
1:K:207:ASP:HB2	1:K:342:VAL:HG23	1.59	0.84
1:S:207:ASP:HB2	1:S:342:VAL:HG23	1.59	0.84
1:m:90:LEU:HD12	1:m:365:GLN:CD	2.00	0.84
1:y:207:ASP:HB2	1:y:342:VAL:HG23	1.59	0.84
1:H:207:ASP:HB2	1:H:342:VAL:HG23	1.59	0.84
1:s:90:LEU:HD12	1:s:365:GLN:CD	2.00	0.84
1:x:207:ASP:HB2	1:x:342:VAL:HG23	1.59	0.84
1:3:207:ASP:HB2	1:3:342:VAL:HG23	1.59	0.83
1:A:207:ASP:HB2	1:A:342:VAL:HG23	1.59	0.83
1:5:207:ASP:HB2	1:5:342:VAL:HG23	1.59	0.83
1:b:207:ASP:HB2	1:b:342:VAL:HG23	1.59	0.83
1:M:207:ASP:HB2	1:M:342:VAL:HG23	1.59	0.83
1:i:207:ASP:HB2	1:i:342:VAL:HG23	1.59	0.83
1:w:207:ASP:HB2	1:w:342:VAL:HG23	1.59	0.83
1:z:207:ASP:HB2	1:z:342:VAL:HG23	1.59	0.83
1:W:207:ASP:HB2	1:W:342:VAL:HG23	1.59	0.83
1:1:207:ASP:HB2	1:1:342:VAL:HG23	1.59	0.83
1:p:207:ASP:HB2	1:p:342:VAL:HG23	1.59	0.83
1:F:207:ASP:HB2	1:F:342:VAL:HG23	1.59	0.83
1:C:207:ASP:HB2	1:C:342:VAL:HG23	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:207:ASP:HB2	1:X:342:VAL:HG23	1.59	0.83
1:a:207:ASP:HB2	1:a:342:VAL:HG23	1.59	0.83
1:s:207:ASP:HB2	1:s:342:VAL:HG23	1.59	0.83
1:4:207:ASP:HB2	1:4:342:VAL:HG23	1.59	0.83
1:h:207:ASP:HB2	1:h:342:VAL:HG23	1.59	0.83
1:7:207:ASP:HB2	1:7:342:VAL:HG23	1.59	0.83
1:Y:207:ASP:HB2	1:Y:342:VAL:HG23	1.59	0.83
1:P:207:ASP:HB2	1:P:342:VAL:HG23	1.59	0.82
1:f:207:ASP:HB2	1:f:342:VAL:HG23	1.59	0.82
1:O:207:ASP:HB2	1:O:342:VAL:HG23	1.59	0.82
1:R:207:ASP:HB2	1:R:342:VAL:HG23	1.59	0.82
1:d:207:ASP:HB2	1:d:342:VAL:HG23	1.59	0.82
1:k:207:ASP:HB2	1:k:342:VAL:HG23	1.59	0.82
1:m:207:ASP:HB2	1:m:342:VAL:HG23	1.59	0.82
1:U:207:ASP:HB2	1:U:342:VAL:HG23	1.59	0.82
1:u:207:ASP:HB2	1:u:342:VAL:HG23	1.59	0.82
1:B:207:ASP:HB2	1:B:342:VAL:HG23	1.59	0.82
1:Q:207:ASP:HB2	1:Q:342:VAL:HG23	1.59	0.82
1:r:207:ASP:HB2	1:r:342:VAL:HG23	1.59	0.81
1:D:187:PRO:HD3	1:D:194:TRP:CD1	2.22	0.75
1:M:134:ARG:NH2	1:M:511:GLU:OE1	2.20	0.75
1:1:187:PRO:HD3	1:1:194:TRP:CD1	2.22	0.75
1:b:134:ARG:NH2	1:b:511:GLU:OE1	2.20	0.75
1:e:187:PRO:HD3	1:e:194:TRP:CD1	2.22	0.75
1:w:187:PRO:HD3	1:w:194:TRP:CD1	2.22	0.75
1:E:187:PRO:HD3	1:E:194:TRP:CD1	2.22	0.75
1:F:187:PRO:HD3	1:F:194:TRP:CD1	2.22	0.75
1:N:134:ARG:NH2	1:N:511:GLU:OE1	2.20	0.75
1:R:134:ARG:NH2	1:R:511:GLU:OE1	2.20	0.75
1:Y:187:PRO:HD3	1:Y:194:TRP:CD1	2.22	0.75
1:3:134:ARG:NH2	1:3:511:GLU:OE1	2.20	0.75
1:5:134:ARG:NH2	1:5:511:GLU:OE1	2.20	0.75
1:k:134:ARG:NH2	1:k:511:GLU:OE1	2.20	0.75
1:n:187:PRO:HD3	1:n:194:TRP:CD1	2.22	0.75
1:t:187:PRO:HD3	1:t:194:TRP:CD1	2.22	0.75
1:G:187:PRO:HD3	1:G:194:TRP:CD1	2.22	0.75
1:I:187:PRO:HD3	1:I:194:TRP:CD1	2.22	0.75
1:L:187:PRO:HD3	1:L:194:TRP:CD1	2.22	0.75
1:c:134:ARG:NH2	1:c:511:GLU:OE1	2.20	0.75
1:o:187:PRO:HD3	1:o:194:TRP:CD1	2.22	0.75
1:q:187:PRO:HD3	1:q:194:TRP:CD1	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:187:PRO:HD3	1:s:194:TRP:CD1	2.22	0.75
1:7:187:PRO:HD3	1:7:194:TRP:CD1	2.22	0.75
1:W:187:PRO:HD3	1:W:194:TRP:CD1	2.22	0.75
1:B:134:ARG:NH2	1:B:511:GLU:OE1	2.20	0.75
1:Q:187:PRO:HD3	1:Q:194:TRP:CD1	2.22	0.75
1:T:187:PRO:HD3	1:T:194:TRP:CD1	2.22	0.75
1:e:134:ARG:NH2	1:e:511:GLU:OE1	2.20	0.75
1:r:187:PRO:HD3	1:r:194:TRP:CD1	2.22	0.75
1:u:134:ARG:NH2	1:u:511:GLU:OE1	2.20	0.75
1:z:187:PRO:HD3	1:z:194:TRP:CD1	2.22	0.75
1:C:187:PRO:HD3	1:C:194:TRP:CD1	2.22	0.75
1:E:134:ARG:NH2	1:E:511:GLU:OE1	2.20	0.75
1:I:134:ARG:NH2	1:I:511:GLU:OE1	2.20	0.75
1:X:187:PRO:HD3	1:X:194:TRP:CD1	2.22	0.75
1:g:187:PRO:HD3	1:g:194:TRP:CD1	2.22	0.75
1:o:134:ARG:NH2	1:o:511:GLU:OE1	2.20	0.75
1:A:134:ARG:NH2	1:A:511:GLU:OE1	2.20	0.74
1:D:134:ARG:NH2	1:D:511:GLU:OE1	2.20	0.74
1:a:187:PRO:HD3	1:a:194:TRP:CD1	2.22	0.74
1:i:187:PRO:HD3	1:i:194:TRP:CD1	2.22	0.74
1:n:134:ARG:NH2	1:n:511:GLU:OE1	2.20	0.74
1:q:134:ARG:NH2	1:q:511:GLU:OE1	2.20	0.74
1:u:187:PRO:HD3	1:u:194:TRP:CD1	2.22	0.74
1:C:134:ARG:NH2	1:C:511:GLU:OE1	2.20	0.74
1:F:134:ARG:NH2	1:F:511:GLU:OE1	2.20	0.74
1:H:187:PRO:HD3	1:H:194:TRP:CD1	2.22	0.74
1:R:187:PRO:HD3	1:R:194:TRP:CD1	2.22	0.74
1:S:187:PRO:HD3	1:S:194:TRP:CD1	2.22	0.74
1:Y:134:ARG:NH2	1:Y:511:GLU:OE1	2.20	0.74
1:Z:187:PRO:HD3	1:Z:194:TRP:CD1	2.22	0.74
1:4:134:ARG:NH2	1:4:511:GLU:OE1	2.20	0.74
1:p:134:ARG:NH2	1:p:511:GLU:OE1	2.20	0.74
1:s:134:ARG:NH2	1:s:511:GLU:OE1	2.20	0.74
1:x:134:ARG:NH2	1:x:511:GLU:OE1	2.20	0.74
1:x:187:PRO:HD3	1:x:194:TRP:CD1	2.22	0.74
1:y:187:PRO:HD3	1:y:194:TRP:CD1	2.22	0.74
1:B:187:PRO:HD3	1:B:194:TRP:CD1	2.22	0.74
1:G:134:ARG:NH2	1:G:511:GLU:OE1	2.20	0.74
1:K:134:ARG:NH2	1:K:511:GLU:OE1	2.20	0.74
1:K:187:PRO:HD3	1:K:194:TRP:CD1	2.22	0.74
1:O:187:PRO:HD3	1:O:194:TRP:CD1	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:134:ARG:NH2	1:T:511:GLU:OE1	2.20	0.74
1:3:187:PRO:HD3	1:3:194:TRP:CD1	2.22	0.74
1:5:187:PRO:HD3	1:5:194:TRP:CD1	2.22	0.74
1:h:134:ARG:NH2	1:h:511:GLU:OE1	2.20	0.74
1:k:187:PRO:HD3	1:k:194:TRP:CD1	2.22	0.74
1:7:134:ARG:NH2	1:7:511:GLU:OE1	2.20	0.74
1:8:187:PRO:HD3	1:8:194:TRP:CD1	2.22	0.74
1:M:187:PRO:HD3	1:M:194:TRP:CD1	2.22	0.74
1:N:187:PRO:HD3	1:N:194:TRP:CD1	2.22	0.74
1:b:187:PRO:HD3	1:b:194:TRP:CD1	2.22	0.74
1:c:187:PRO:HD3	1:c:194:TRP:CD1	2.22	0.74
1:f:187:PRO:HD3	1:f:194:TRP:CD1	2.22	0.74
1:g:134:ARG:NH2	1:g:511:GLU:OE1	2.20	0.74
1:l:187:PRO:HD3	1:l:194:TRP:CD1	2.22	0.74
1:a:134:ARG:NH2	1:a:511:GLU:OE1	2.20	0.74
1:i:134:ARG:NH2	1:i:511:GLU:OE1	2.20	0.74
1:X:134:ARG:NH2	1:X:511:GLU:OE1	2.20	0.74
1:r:134:ARG:NH2	1:r:511:GLU:OE1	2.20	0.74
1:v:187:PRO:HD3	1:v:194:TRP:CD1	2.22	0.74
1:J:187:PRO:HD3	1:J:194:TRP:CD1	2.22	0.74
1:Q:134:ARG:NH2	1:Q:511:GLU:OE1	2.20	0.74
1:1:134:ARG:NH2	1:1:511:GLU:OE1	2.20	0.74
1:O:134:ARG:NH2	1:O:511:GLU:OE1	2.20	0.74
1:U:187:PRO:HD3	1:U:194:TRP:CD1	2.22	0.74
1:S:134:ARG:NH2	1:S:511:GLU:OE1	2.20	0.74
1:l:134:ARG:NH2	1:l:511:GLU:OE1	2.20	0.74
1:m:187:PRO:HD3	1:m:194:TRP:CD1	2.22	0.74
1:w:134:ARG:NH2	1:w:511:GLU:OE1	2.20	0.74
1:y:134:ARG:NH2	1:y:511:GLU:OE1	2.20	0.74
1:z:134:ARG:NH2	1:z:511:GLU:OE1	2.20	0.74
1:H:134:ARG:NH2	1:H:511:GLU:OE1	2.20	0.74
1:P:134:ARG:NH2	1:P:511:GLU:OE1	2.20	0.74
1:2:187:PRO:HD3	1:2:194:TRP:CD1	2.22	0.74
1:f:134:ARG:NH2	1:f:511:GLU:OE1	2.20	0.74
1:W:134:ARG:NH2	1:W:511:GLU:OE1	2.20	0.73
1:6:187:PRO:HD3	1:6:194:TRP:CD1	2.22	0.73
1:d:134:ARG:NH2	1:d:511:GLU:OE1	2.20	0.73
1:h:187:PRO:HD3	1:h:194:TRP:CD1	2.22	0.73
1:6:134:ARG:NH2	1:6:511:GLU:OE1	2.20	0.73
1:8:134:ARG:NH2	1:8:511:GLU:OE1	2.20	0.73
1:L:134:ARG:NH2	1:L:511:GLU:OE1	2.20	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:187:PRO:HD3	1:P:194:TRP:CD1	2.22	0.73
1:V:134:ARG:NH2	1:V:511:GLU:OE1	2.20	0.73
1:V:187:PRO:HD3	1:V:194:TRP:CD1	2.22	0.73
1:Z:134:ARG:NH2	1:Z:511:GLU:OE1	2.20	0.73
1:4:187:PRO:HD3	1:4:194:TRP:CD1	2.22	0.73
1:d:187:PRO:HD3	1:d:194:TRP:CD1	2.22	0.73
1:j:187:PRO:HD3	1:j:194:TRP:CD1	2.22	0.73
1:U:134:ARG:NH2	1:U:511:GLU:OE1	2.20	0.73
1:2:134:ARG:NH2	1:2:511:GLU:OE1	2.20	0.73
1:p:187:PRO:HD3	1:p:194:TRP:CD1	2.22	0.73
1:A:187:PRO:HD3	1:A:194:TRP:CD1	2.22	0.73
1:t:134:ARG:NH2	1:t:511:GLU:OE1	2.20	0.73
1:j:134:ARG:NH2	1:j:511:GLU:OE1	2.20	0.73
1:m:134:ARG:NH2	1:m:511:GLU:OE1	2.20	0.73
1:J:134:ARG:NH2	1:J:511:GLU:OE1	2.20	0.73
1:v:134:ARG:NH2	1:v:511:GLU:OE1	2.20	0.72
1:K:321:GLN:O	1:K:327:ARG:NH1	2.23	0.71
1:O:321:GLN:O	1:O:327:ARG:NH1	2.23	0.71
1:f:321:GLN:O	1:f:327:ARG:NH1	2.23	0.71
1:x:321:GLN:O	1:x:327:ARG:NH1	2.23	0.71
1:F:321:GLN:O	1:F:327:ARG:NH1	2.23	0.71
1:J:262:ARG:HE	1:L:227:ASN:ND2	1.88	0.71
1:M:321:GLN:O	1:M:327:ARG:NH1	2.23	0.71
1:V:321:GLN:O	1:V:327:ARG:NH1	2.23	0.71
1:3:321:GLN:O	1:3:327:ARG:NH1	2.23	0.71
1:5:321:GLN:O	1:5:327:ARG:NH1	2.23	0.71
1:b:321:GLN:O	1:b:327:ARG:NH1	2.23	0.71
1:j:321:GLN:O	1:j:327:ARG:NH1	2.24	0.71
1:R:321:GLN:O	1:R:327:ARG:NH1	2.23	0.71
1:i:205:GLN:HE21	1:i:368:TRP:HE1	1.38	0.71
1:s:321:GLN:O	1:s:327:ARG:NH1	2.23	0.71
1:B:321:GLN:O	1:B:327:ARG:NH1	2.23	0.71
1:E:205:GLN:HE21	1:E:368:TRP:HE1	1.38	0.71
1:E:321:GLN:O	1:E:327:ARG:NH1	2.23	0.71
1:G:321:GLN:O	1:G:327:ARG:NH1	2.23	0.71
1:L:321:GLN:O	1:L:327:ARG:NH1	2.23	0.71
1:T:321:GLN:O	1:T:327:ARG:NH1	2.23	0.71
1:U:321:GLN:O	1:U:327:ARG:NH1	2.23	0.71
1:g:321:GLN:O	1:g:327:ARG:NH1	2.23	0.71
1:k:321:GLN:O	1:k:327:ARG:NH1	2.23	0.71
1:l:321:GLN:O	1:l:327:ARG:NH1	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:321:GLN:O	1:m:327:ARG:NH1	2.23	0.71
1:n:321:GLN:O	1:n:327:ARG:NH1	2.23	0.71
1:q:205:GLN:HE21	1:q:368:TRP:HE1	1.38	0.71
1:t:321:GLN:O	1:t:327:ARG:NH1	2.23	0.71
1:A:321:GLN:O	1:A:327:ARG:NH1	2.23	0.71
1:H:321:GLN:O	1:H:327:ARG:NH1	2.23	0.71
1:S:321:GLN:O	1:S:327:ARG:NH1	2.23	0.71
1:X:205:GLN:HE21	1:X:368:TRP:HE1	1.38	0.71
1:Y:321:GLN:O	1:Y:327:ARG:NH1	2.23	0.71
1:q:321:GLN:O	1:q:327:ARG:NH1	2.23	0.71
1:u:321:GLN:O	1:u:327:ARG:NH1	2.23	0.71
1:y:321:GLN:O	1:y:327:ARG:NH1	2.23	0.71
1:l:205:GLN:HE21	1:l:368:TRP:HE1	1.38	0.71
1:4:321:GLN:O	1:4:327:ARG:NH1	2.23	0.71
1:h:321:GLN:O	1:h:327:ARG:NH1	2.23	0.71
1:m:205:GLN:HE21	1:m:368:TRP:HE1	1.38	0.71
1:p:321:GLN:O	1:p:327:ARG:NH1	2.23	0.71
1:w:205:GLN:HE21	1:w:368:TRP:HE1	1.38	0.71
1:7:321:GLN:O	1:7:327:ARG:NH1	2.23	0.71
1:A:205:GLN:HE21	1:A:368:TRP:HE1	1.38	0.71
1:C:321:GLN:O	1:C:327:ARG:NH1	2.23	0.71
1:M:205:GLN:HE21	1:M:368:TRP:HE1	1.38	0.71
1:U:205:GLN:HE21	1:U:368:TRP:HE1	1.38	0.71
1:Z:321:GLN:O	1:Z:327:ARG:NH1	2.23	0.71
1:b:205:GLN:HE21	1:b:368:TRP:HE1	1.38	0.71
1:w:321:GLN:O	1:w:327:ARG:NH1	2.23	0.71
1:G:144:ILE:HD11	1:G:164:VAL:HG23	1.73	0.71
1:l:321:GLN:O	1:l:327:ARG:NH1	2.23	0.71
1:n:144:ILE:HD11	1:n:164:VAL:HG23	1.73	0.71
1:p:205:GLN:HE21	1:p:368:TRP:HE1	1.38	0.71
1:F:205:GLN:HE21	1:F:368:TRP:HE1	1.38	0.71
1:J:321:GLN:O	1:J:327:ARG:NH1	2.23	0.71
1:Z:144:ILE:HD11	1:Z:164:VAL:HG23	1.73	0.71
1:a:321:GLN:O	1:a:327:ARG:NH1	2.24	0.71
1:o:321:GLN:O	1:o:327:ARG:NH1	2.23	0.71
1:s:205:GLN:HE21	1:s:368:TRP:HE1	1.38	0.71
1:v:321:GLN:O	1:v:327:ARG:NH1	2.23	0.71
1:8:144:ILE:HD11	1:8:164:VAL:HG23	1.73	0.71
1:8:321:GLN:O	1:8:327:ARG:NH1	2.23	0.71
1:D:321:GLN:O	1:D:327:ARG:NH1	2.23	0.71
1:N:321:GLN:O	1:N:327:ARG:NH1	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:321:GLN:O	1:Q:327:ARG:NH1	2.23	0.71
1:2:205:GLN:HE21	1:2:368:TRP:HE1	1.38	0.71
1:c:321:GLN:O	1:c:327:ARG:NH1	2.23	0.71
1:r:321:GLN:O	1:r:327:ARG:NH1	2.23	0.71
1:v:144:ILE:HD11	1:v:164:VAL:HG23	1.73	0.71
1:I:321:GLN:O	1:I:327:ARG:NH1	2.23	0.70
1:J:144:ILE:HD11	1:J:164:VAL:HG23	1.73	0.70
1:Q:205:GLN:HE21	1:Q:368:TRP:HE1	1.38	0.70
1:S:144:ILE:HD11	1:S:164:VAL:HG23	1.73	0.70
1:6:205:GLN:HE21	1:6:368:TRP:HE1	1.38	0.70
1:e:321:GLN:O	1:e:327:ARG:NH1	2.23	0.70
1:l:144:ILE:HD11	1:l:164:VAL:HG23	1.73	0.70
1:B:205:GLN:HE21	1:B:368:TRP:HE1	1.38	0.70
1:K:144:ILE:HD11	1:K:164:VAL:HG23	1.73	0.70
1:O:205:GLN:HE21	1:O:368:TRP:HE1	1.38	0.70
1:6:321:GLN:O	1:6:327:ARG:NH1	2.23	0.70
1:e:205:GLN:HE21	1:e:368:TRP:HE1	1.38	0.70
1:g:205:GLN:HE21	1:g:368:TRP:HE1	1.38	0.70
1:r:205:GLN:HE21	1:r:368:TRP:HE1	1.39	0.70
1:x:144:ILE:HD11	1:x:164:VAL:HG23	1.73	0.70
1:D:205:GLN:HE21	1:D:368:TRP:HE1	1.38	0.70
1:E:144:ILE:HD11	1:E:164:VAL:HG23	1.73	0.70
1:2:321:GLN:O	1:2:327:ARG:NH1	2.23	0.70
1:f:205:GLN:HE21	1:f:368:TRP:HE1	1.38	0.70
1:i:321:GLN:O	1:i:327:ARG:NH1	2.23	0.70
1:q:144:ILE:HD11	1:q:164:VAL:HG23	1.73	0.70
1:X:321:GLN:O	1:X:327:ARG:NH1	2.23	0.70
1:d:321:GLN:O	1:d:327:ARG:NH1	2.23	0.70
1:y:144:ILE:HD11	1:y:164:VAL:HG23	1.73	0.70
1:8:205:GLN:HE21	1:8:368:TRP:HE1	1.38	0.70
1:P:321:GLN:O	1:P:327:ARG:NH1	2.23	0.70
1:V:205:GLN:HE21	1:V:368:TRP:HE1	1.39	0.70
1:Z:205:GLN:HE21	1:Z:368:TRP:HE1	1.38	0.70
1:6:144:ILE:HD11	1:6:164:VAL:HG23	1.73	0.70
1:u:205:GLN:HE21	1:u:368:TRP:HE1	1.38	0.70
1:H:144:ILE:HD11	1:H:164:VAL:HG23	1.73	0.70
1:T:205:GLN:HE21	1:T:368:TRP:HE1	1.39	0.70
1:U:144:ILE:HD11	1:U:164:VAL:HG23	1.73	0.70
1:Z:164:VAL:HG21	1:Z:502:VAL:HG21	1.74	0.70
1:2:144:ILE:HD11	1:2:164:VAL:HG23	1.73	0.70
1:3:205:GLN:HE21	1:3:368:TRP:HE1	1.38	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:205:GLN:HE21	1:5:368:TRP:HE1	1.38	0.70
1:j:205:GLN:HE21	1:j:368:TRP:HE1	1.38	0.70
1:m:144:ILE:HD11	1:m:164:VAL:HG23	1.73	0.70
1:8:164:VAL:HG21	1:8:502:VAL:HG21	1.74	0.70
1:A:164:VAL:HG21	1:A:502:VAL:HG21	1.74	0.70
1:B:262:ARG:HE	1:J:227:ASN:ND2	1.90	0.70
1:D:164:VAL:HG21	1:D:502:VAL:HG21	1.74	0.70
1:e:164:VAL:HG21	1:e:502:VAL:HG21	1.74	0.70
1:t:164:VAL:HG21	1:t:502:VAL:HG21	1.74	0.70
1:C:205:GLN:HE21	1:C:368:TRP:HE1	1.39	0.70
1:K:164:VAL:HG21	1:K:502:VAL:HG21	1.74	0.70
1:L:164:VAL:HG21	1:L:502:VAL:HG21	1.74	0.70
1:W:321:GLN:O	1:W:327:ARG:NH1	2.23	0.70
1:6:164:VAL:HG21	1:6:502:VAL:HG21	1.74	0.70
1:i:144:ILE:HD11	1:i:164:VAL:HG23	1.73	0.70
1:k:227:ASN:ND2	1:m:262:ARG:HE	1.90	0.70
1:x:205:GLN:HE21	1:x:368:TRP:HE1	1.39	0.70
1:B:164:VAL:HG21	1:B:502:VAL:HG21	1.74	0.70
1:C:144:ILE:HD11	1:C:164:VAL:HG23	1.73	0.70
1:F:144:ILE:HD11	1:F:164:VAL:HG23	1.73	0.70
1:G:164:VAL:HG21	1:G:502:VAL:HG21	1.74	0.70
1:G:205:GLN:HE21	1:G:368:TRP:HE1	1.38	0.70
1:K:205:GLN:HE21	1:K:368:TRP:HE1	1.39	0.70
1:R:227:ASN:ND2	1:U:262:ARG:HE	1.90	0.70
1:X:144:ILE:HD11	1:X:164:VAL:HG23	1.73	0.70
1:2:164:VAL:HG21	1:2:502:VAL:HG21	1.74	0.70
1:3:164:VAL:HG21	1:3:502:VAL:HG21	1.74	0.70
1:5:144:ILE:HD11	1:5:164:VAL:HG23	1.73	0.70
1:l:164:VAL:HG21	1:l:502:VAL:HG21	1.74	0.70
1:n:164:VAL:HG21	1:n:502:VAL:HG21	1.74	0.70
1:p:164:VAL:HG21	1:p:502:VAL:HG21	1.74	0.70
1:s:144:ILE:HD11	1:s:164:VAL:HG23	1.73	0.70
1:x:164:VAL:HG21	1:x:502:VAL:HG21	1.74	0.70
1:z:205:GLN:HE21	1:z:368:TRP:HE1	1.38	0.70
1:z:321:GLN:O	1:z:327:ARG:NH1	2.23	0.70
1:I:164:VAL:HG21	1:I:502:VAL:HG21	1.74	0.69
1:Q:164:VAL:HG21	1:Q:502:VAL:HG21	1.74	0.69
1:S:164:VAL:HG21	1:S:502:VAL:HG21	1.74	0.69
1:W:205:GLN:HE21	1:W:368:TRP:HE1	1.38	0.69
1:3:144:ILE:HD11	1:3:164:VAL:HG23	1.73	0.69
1:a:205:GLN:HE21	1:a:368:TRP:HE1	1.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:164:VAL:HG21	1:b:502:VAL:HG21	1.74	0.69
1:n:205:GLN:HE21	1:n:368:TRP:HE1	1.39	0.69
1:r:164:VAL:HG21	1:r:502:VAL:HG21	1.74	0.69
1:M:164:VAL:HG21	1:M:502:VAL:HG21	1.74	0.69
1:N:144:ILE:HD11	1:N:164:VAL:HG23	1.73	0.69
1:N:205:GLN:HE21	1:N:368:TRP:HE1	1.38	0.69
1:Q:144:ILE:HD11	1:Q:164:VAL:HG23	1.73	0.69
1:Y:205:GLN:HE21	1:Y:368:TRP:HE1	1.38	0.69
1:5:164:VAL:HG21	1:5:502:VAL:HG21	1.74	0.69
1:a:144:ILE:HD11	1:a:164:VAL:HG23	1.73	0.69
1:c:205:GLN:HE21	1:c:368:TRP:HE1	1.38	0.69
1:u:164:VAL:HG21	1:u:502:VAL:HG21	1.74	0.69
1:7:205:GLN:HE21	1:7:368:TRP:HE1	1.38	0.69
1:V:144:ILE:HD11	1:V:164:VAL:HG23	1.73	0.69
1:o:164:VAL:HG21	1:o:502:VAL:HG21	1.74	0.69
1:r:144:ILE:HD11	1:r:164:VAL:HG23	1.73	0.69
1:t:205:GLN:HE21	1:t:368:TRP:HE1	1.38	0.69
1:J:205:GLN:HE21	1:J:368:TRP:HE1	1.39	0.69
1:L:205:GLN:HE21	1:L:368:TRP:HE1	1.38	0.69
1:S:262:ARG:HE	1:U:227:ASN:ND2	1.90	0.69
1:T:164:VAL:HG21	1:T:502:VAL:HG21	1.74	0.69
1:c:144:ILE:HD11	1:c:164:VAL:HG23	1.73	0.69
1:d:144:ILE:HD11	1:d:164:VAL:HG23	1.73	0.69
1:d:205:GLN:HE21	1:d:368:TRP:HE1	1.38	0.69
1:g:164:VAL:HG21	1:g:502:VAL:HG21	1.74	0.69
1:l:262:ARG:HE	1:m:227:ASN:ND2	1.90	0.69
1:P:144:ILE:HD11	1:P:164:VAL:HG23	1.73	0.69
1:R:205:GLN:HE21	1:R:368:TRP:HE1	1.38	0.69
1:1:144:ILE:HD11	1:1:164:VAL:HG23	1.73	0.69
1:j:144:ILE:HD11	1:j:164:VAL:HG23	1.73	0.69
1:p:144:ILE:HD11	1:p:164:VAL:HG23	1.73	0.69
1:t:227:ASN:ND2	1:v:262:ARG:HE	1.90	0.69
1:A:144:ILE:HD11	1:A:164:VAL:HG23	1.73	0.69
1:H:164:VAL:HG21	1:H:502:VAL:HG21	1.74	0.69
1:M:372:PRO:HD3	1:2:279:ARG:HH12	1.58	0.69
1:S:205:GLN:HE21	1:S:368:TRP:HE1	1.39	0.69
1:4:205:GLN:HE21	1:4:368:TRP:HE1	1.38	0.69
1:6:279:ARG:HH12	1:b:372:PRO:HD3	1.58	0.69
1:c:279:ARG:HH12	1:d:372:PRO:HD3	1.58	0.69
1:h:205:GLN:HE21	1:h:368:TRP:HE1	1.38	0.69
1:k:205:GLN:HE21	1:k:368:TRP:HE1	1.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:205:GLN:HE21	1:v:368:TRP:HE1	1.39	0.69
1:y:164:VAL:HG21	1:y:502:VAL:HG21	1.74	0.69
1:y:205:GLN:HE21	1:y:368:TRP:HE1	1.38	0.69
1:N:279:ARG:HH12	1:P:372:PRO:HD3	1.58	0.69
1:P:205:GLN:HE21	1:P:368:TRP:HE1	1.38	0.69
1:R:279:ARG:HH12	1:S:372:PRO:HD3	1.58	0.69
1:4:279:ARG:HH12	1:f:372:PRO:HD3	1.58	0.69
1:k:279:ARG:HH12	1:l:372:PRO:HD3	1.58	0.69
1:A:372:PRO:HD3	1:I:279:ARG:HH12	1.58	0.69
1:D:144:ILE:HD11	1:D:164:VAL:HG23	1.73	0.69
1:E:227:ASN:ND2	1:F:262:ARG:HE	1.91	0.69
1:F:164:VAL:HG21	1:F:502:VAL:HG21	1.74	0.69
1:F:372:PRO:HD3	1:Q:279:ARG:HH12	1.58	0.69
1:M:144:ILE:HD11	1:M:164:VAL:HG23	1.73	0.69
1:O:144:ILE:HD11	1:O:164:VAL:HG23	1.73	0.69
1:O:372:PRO:HD3	1:h:279:ARG:HH12	1.58	0.69
1:b:144:ILE:HD11	1:b:164:VAL:HG23	1.73	0.69
1:e:144:ILE:HD11	1:e:164:VAL:HG23	1.73	0.69
1:f:144:ILE:HD11	1:f:164:VAL:HG23	1.73	0.69
1:l:205:GLN:HE21	1:l:368:TRP:HE1	1.39	0.69
1:o:279:ARG:HH12	1:p:372:PRO:HD3	1.58	0.69
1:q:227:ASN:ND2	1:s:262:ARG:HE	1.91	0.69
1:r:279:ARG:HH12	1:s:372:PRO:HD3	1.58	0.69
1:s:164:VAL:HG21	1:s:502:VAL:HG21	1.74	0.69
1:u:262:ARG:HE	1:v:227:ASN:ND2	1.91	0.69
1:w:144:ILE:HD11	1:w:164:VAL:HG23	1.73	0.69
1:A:227:ASN:ND2	1:I:262:ARG:HE	1.91	0.69
1:A:262:ARG:HE	1:G:227:ASN:ND2	1.91	0.69
1:H:205:GLN:HE21	1:H:368:TRP:HE1	1.38	0.69
1:H:342:VAL:HG11	1:H:365:GLN:HE21	1.58	0.69
1:H:372:PRO:HD3	1:Y:279:ARG:HH12	1.58	0.69
1:K:227:ASN:ND2	1:8:262:ARG:HE	1.91	0.69
1:g:144:ILE:HD11	1:g:164:VAL:HG23	1.73	0.69
1:k:144:ILE:HD11	1:k:164:VAL:HG23	1.73	0.69
1:n:227:ASN:ND2	1:p:262:ARG:HE	1.91	0.69
1:o:262:ARG:HE	1:p:227:ASN:ND2	1.91	0.69
1:q:164:VAL:HG21	1:q:502:VAL:HG21	1.74	0.69
1:y:342:VAL:HG11	1:y:365:GLN:HE21	1.58	0.69
1:z:144:ILE:HD11	1:z:164:VAL:HG23	1.73	0.69
1:D:176:TYR:CE2	1:D:178:GLN:HB2	2.28	0.69
1:D:445:CYS:N	1:D:448:ASN:OD1	2.21	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:164:VAL:HG21	1:E:502:VAL:HG21	1.74	0.69
1:E:372:PRO:HD3	1:F:279:ARG:HH12	1.58	0.69
1:G:342:VAL:HG11	1:G:365:GLN:HE21	1.58	0.69
1:I:205:GLN:HE21	1:I:368:TRP:HE1	1.38	0.69
1:I:342:VAL:HG11	1:I:365:GLN:HE21	1.58	0.69
1:K:372:PRO:HD3	1:8:279:ARG:HH12	1.58	0.69
1:L:144:ILE:HD11	1:L:164:VAL:HG23	1.73	0.69
1:T:262:ARG:HE	1:4:227:ASN:ND2	1.91	0.69
1:V:262:ARG:HE	1:5:227:ASN:ND2	1.91	0.69
1:W:144:ILE:HD11	1:W:164:VAL:HG23	1.73	0.69
1:Y:144:ILE:HD11	1:Y:164:VAL:HG23	1.73	0.69
1:Z:262:ARG:HE	1:x:227:ASN:ND2	1.91	0.69
1:3:227:ASN:ND2	1:j:262:ARG:HE	1.91	0.69
1:4:176:TYR:CE2	1:4:178:GLN:HB2	2.28	0.69
1:e:176:TYR:CE2	1:e:178:GLN:HB2	2.28	0.69
1:e:445:CYS:N	1:e:448:ASN:OD1	2.21	0.69
1:g:262:ARG:HE	1:h:227:ASN:ND2	1.91	0.69
1:h:144:ILE:HD11	1:h:164:VAL:HG23	1.73	0.69
1:i:262:ARG:HE	1:j:227:ASN:ND2	1.91	0.69
1:o:144:ILE:HD11	1:o:164:VAL:HG23	1.73	0.69
1:q:279:ARG:HH12	1:r:372:PRO:HD3	1.58	0.69
1:B:144:ILE:HD11	1:B:164:VAL:HG23	1.73	0.68
1:B:176:TYR:CE2	1:B:178:GLN:HB2	2.28	0.68
1:D:262:ARG:HE	1:N:227:ASN:ND2	1.91	0.68
1:E:279:ARG:HH12	1:Q:372:PRO:HD3	1.58	0.68
1:F:176:TYR:CE2	1:F:178:GLN:HB2	2.28	0.68
1:I:144:ILE:HD11	1:I:164:VAL:HG23	1.73	0.68
1:L:342:VAL:HG11	1:L:365:GLN:HE21	1.58	0.68
1:N:176:TYR:CE2	1:N:178:GLN:HB2	2.28	0.68
1:R:144:ILE:HD11	1:R:164:VAL:HG23	1.73	0.68
1:T:144:ILE:HD11	1:T:164:VAL:HG23	1.73	0.68
1:U:164:VAL:HG21	1:U:502:VAL:HG21	1.74	0.68
1:V:164:VAL:HG21	1:V:502:VAL:HG21	1.74	0.68
1:Z:342:VAL:HG11	1:Z:365:GLN:HE21	1.59	0.68
1:c:164:VAL:HG21	1:c:502:VAL:HG21	1.74	0.68
1:c:176:TYR:CE2	1:c:178:GLN:HB2	2.28	0.68
1:c:227:ASN:ND2	1:e:262:ARG:HE	1.91	0.68
1:h:176:TYR:CE2	1:h:178:GLN:HB2	2.28	0.68
1:m:164:VAL:HG21	1:m:502:VAL:HG21	1.74	0.68
1:s:176:TYR:CE2	1:s:178:GLN:HB2	2.28	0.68
1:u:144:ILE:HD11	1:u:164:VAL:HG23	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:176:TYR:CE2	1:u:178:GLN:HB2	2.28	0.68
1:v:164:VAL:HG21	1:v:502:VAL:HG21	1.74	0.68
1:y:372:PRO:HD3	1:7:279:ARG:HH12	1.58	0.68
1:8:342:VAL:HG11	1:8:365:GLN:HE21	1.59	0.68
1:A:176:TYR:CE2	1:A:178:GLN:HB2	2.28	0.68
1:J:176:TYR:CE2	1:J:178:GLN:HB2	2.28	0.68
1:N:164:VAL:HG21	1:N:502:VAL:HG21	1.74	0.68
1:O:164:VAL:HG21	1:O:502:VAL:HG21	1.74	0.68
1:R:176:TYR:CE2	1:R:178:GLN:HB2	2.28	0.68
1:R:262:ARG:HE	1:S:227:ASN:ND2	1.91	0.68
1:T:227:ASN:ND2	1:f:262:ARG:HE	1.91	0.68
1:T:279:ARG:HH12	1:4:372:PRO:HD3	1.58	0.68
1:V:227:ASN:ND2	1:X:262:ARG:HE	1.91	0.68
1:V:279:ARG:HH12	1:5:372:PRO:HD3	1.58	0.68
1:Z:279:ARG:HH12	1:x:372:PRO:HD3	1.58	0.68
1:3:372:PRO:HD3	1:j:279:ARG:HH12	1.58	0.68
1:4:144:ILE:HD11	1:4:164:VAL:HG23	1.73	0.68
1:f:164:VAL:HG21	1:f:502:VAL:HG21	1.74	0.68
1:g:279:ARG:HH12	1:h:372:PRO:HD3	1.58	0.68
1:n:342:VAL:HG11	1:n:365:GLN:HE21	1.59	0.68
1:o:205:GLN:HE21	1:o:368:TRP:HE1	1.38	0.68
1:o:342:VAL:HG11	1:o:365:GLN:HE21	1.58	0.68
1:p:176:TYR:CE2	1:p:178:GLN:HB2	2.28	0.68
1:q:262:ARG:HE	1:r:227:ASN:ND2	1.91	0.68
1:q:372:PRO:HD3	1:s:279:ARG:HH12	1.58	0.68
1:t:144:ILE:HD11	1:t:164:VAL:HG23	1.73	0.68
1:t:342:VAL:HG11	1:t:365:GLN:HE21	1.58	0.68
1:M:176:TYR:CE2	1:M:178:GLN:HB2	2.28	0.68
1:N:262:ARG:HE	1:P:227:ASN:ND2	1.91	0.68
1:O:262:ARG:HE	1:g:227:ASN:ND2	1.91	0.68
1:1:164:VAL:HG21	1:1:502:VAL:HG21	1.74	0.68
1:b:176:TYR:CE2	1:b:178:GLN:HB2	2.29	0.68
1:k:176:TYR:CE2	1:k:178:GLN:HB2	2.28	0.68
1:k:262:ARG:HE	1:l:227:ASN:ND2	1.91	0.68
1:v:176:TYR:CE2	1:v:178:GLN:HB2	2.28	0.68
1:z:164:VAL:HG21	1:z:502:VAL:HG21	1.74	0.68
1:7:144:ILE:HD11	1:7:164:VAL:HG23	1.73	0.68
1:7:164:VAL:HG21	1:7:502:VAL:HG21	1.74	0.68
1:B:279:ARG:HH12	1:J:372:PRO:HD3	1.58	0.68
1:C:342:VAL:HG11	1:C:365:GLN:HE21	1.58	0.68
1:E:262:ARG:HE	1:Q:227:ASN:ND2	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:176:TYR:CE2	1:G:178:GLN:HB2	2.29	0.68
1:J:164:VAL:HG21	1:J:502:VAL:HG21	1.74	0.68
1:P:164:VAL:HG21	1:P:502:VAL:HG21	1.74	0.68
1:Q:342:VAL:HG11	1:Q:365:GLN:HE21	1.58	0.68
1:S:279:ARG:HH12	1:U:372:PRO:HD3	1.58	0.68
1:W:164:VAL:HG21	1:W:502:VAL:HG21	1.74	0.68
1:X:164:VAL:HG21	1:X:502:VAL:HG21	1.74	0.68
1:Z:176:TYR:CE2	1:Z:178:GLN:HB2	2.28	0.68
1:1:342:VAL:HG11	1:1:365:GLN:HE21	1.58	0.68
1:a:227:ASN:ND2	1:b:262:ARG:HE	1.91	0.68
1:d:164:VAL:HG21	1:d:502:VAL:HG21	1.74	0.68
1:j:164:VAL:HG21	1:j:502:VAL:HG21	1.74	0.68
1:k:164:VAL:HG21	1:k:502:VAL:HG21	1.74	0.68
1:n:176:TYR:CE2	1:n:178:GLN:HB2	2.29	0.68
1:u:279:ARG:HH12	1:v:372:PRO:HD3	1.58	0.68
1:w:176:TYR:CE2	1:w:178:GLN:HB2	2.28	0.68
1:w:342:VAL:HG11	1:w:365:GLN:HE21	1.58	0.68
1:A:342:VAL:HG11	1:A:365:GLN:HE21	1.58	0.68
1:C:227:ASN:ND2	1:M:262:ARG:HE	1.91	0.68
1:K:342:VAL:HG11	1:K:365:GLN:HE21	1.58	0.68
1:O:342:VAL:HG11	1:O:365:GLN:HE21	1.59	0.68
1:Q:176:TYR:CE2	1:Q:178:GLN:HB2	2.29	0.68
1:R:164:VAL:HG21	1:R:502:VAL:HG21	1.74	0.68
1:U:176:TYR:CE2	1:U:178:GLN:HB2	2.28	0.68
1:X:227:ASN:ND2	1:5:262:ARG:HE	1.91	0.68
1:Y:164:VAL:HG21	1:Y:502:VAL:HG21	1.74	0.68
1:Y:176:TYR:CE2	1:Y:178:GLN:HB2	2.28	0.68
1:1:176:TYR:CE2	1:1:178:GLN:HB2	2.28	0.68
1:3:262:ARG:HE	1:i:227:ASN:ND2	1.91	0.68
1:a:342:VAL:HG11	1:a:365:GLN:HE21	1.58	0.68
1:c:262:ARG:HE	1:d:227:ASN:ND2	1.91	0.68
1:g:176:TYR:CE2	1:g:178:GLN:HB2	2.28	0.68
1:i:164:VAL:HG21	1:i:502:VAL:HG21	1.74	0.68
1:p:342:VAL:HG11	1:p:365:GLN:HE21	1.58	0.68
1:r:342:VAL:HG11	1:r:365:GLN:HE21	1.58	0.68
1:t:176:TYR:CE2	1:t:178:GLN:HB2	2.28	0.68
1:8:176:TYR:CE2	1:8:178:GLN:HB2	2.28	0.68
1:A:279:ARG:HH12	1:G:372:PRO:HD3	1.58	0.68
1:C:372:PRO:HD3	1:M:279:ARG:HH12	1.58	0.68
1:H:262:ARG:HE	1:W:227:ASN:ND2	1.91	0.68
1:H:279:ARG:HH12	1:W:372:PRO:HD3	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:176:TYR:CE2	1:L:178:GLN:HB2	2.29	0.68
1:T:176:TYR:CE2	1:T:178:GLN:HB2	2.28	0.68
1:W:176:TYR:CE2	1:W:178:GLN:HB2	2.28	0.68
1:W:342:VAL:HG11	1:W:365:GLN:HE21	1.58	0.68
1:c:372:PRO:HD3	1:e:279:ARG:HH12	1.58	0.68
1:f:342:VAL:HG11	1:f:365:GLN:HE21	1.59	0.68
1:l:279:ARG:HH12	1:m:372:PRO:HD3	1.58	0.68
1:r:176:TYR:CE2	1:r:178:GLN:HB2	2.29	0.68
1:w:164:VAL:HG21	1:w:502:VAL:HG21	1.74	0.68
1:x:342:VAL:HG11	1:x:365:GLN:HE21	1.58	0.68
1:z:176:TYR:CE2	1:z:178:GLN:HB2	2.28	0.68
1:z:279:ARG:HH12	1:7:372:PRO:HD3	1.58	0.68
1:D:342:VAL:HG11	1:D:365:GLN:HE21	1.58	0.68
1:I:176:TYR:CE2	1:I:178:GLN:HB2	2.28	0.68
1:P:342:VAL:HG11	1:P:365:GLN:HE21	1.58	0.68
1:W:279:ARG:HH12	1:Y:372:PRO:HD3	1.58	0.68
1:a:372:PRO:HD3	1:b:279:ARG:HH12	1.58	0.68
1:d:342:VAL:HG11	1:d:365:GLN:HE21	1.58	0.68
1:e:342:VAL:HG11	1:e:365:GLN:HE21	1.58	0.68
1:m:71:THR:HB	1:m:196:LEU:HD12	1.76	0.68
1:m:176:TYR:CE2	1:m:178:GLN:HB2	2.29	0.68
1:o:176:TYR:CE2	1:o:178:GLN:HB2	2.28	0.68
1:v:71:THR:HB	1:v:196:LEU:HD12	1.76	0.68
1:7:176:TYR:CE2	1:7:178:GLN:HB2	2.28	0.68
1:D:279:ARG:HH12	1:N:372:PRO:HD3	1.58	0.68
1:E:176:TYR:CE2	1:E:178:GLN:HB2	2.29	0.68
1:F:227:ASN:ND2	1:Q:262:ARG:HE	1.91	0.68
1:J:71:THR:HB	1:J:196:LEU:HD12	1.76	0.68
1:K:279:ARG:HH12	1:l:372:PRO:HD3	1.58	0.68
1:U:71:THR:HB	1:U:196:LEU:HD12	1.76	0.68
1:V:71:THR:HB	1:V:196:LEU:HD12	1.76	0.68
1:V:176:TYR:CE2	1:V:178:GLN:HB2	2.28	0.68
1:Z:227:ASN:ND2	1:w:262:ARG:HE	1.91	0.68
1:q:176:TYR:CE2	1:q:178:GLN:HB2	2.29	0.68
1:u:342:VAL:HG11	1:u:365:GLN:HE21	1.58	0.68
1:v:342:VAL:HG11	1:v:365:GLN:HE21	1.58	0.68
1:w:227:ASN:ND2	1:x:262:ARG:HE	1.91	0.68
1:y:262:ARG:HE	1:z:227:ASN:ND2	1.91	0.68
1:y:279:ARG:HH12	1:z:372:PRO:HD3	1.58	0.68
1:z:262:ARG:HE	1:7:227:ASN:ND2	1.91	0.68
1:z:342:VAL:HG11	1:z:365:GLN:HE21	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:227:ASN:ND2	1:L:262:ARG:HE	1.90	0.68
1:B:445:CYS:N	1:B:448:ASN:OD1	2.21	0.68
1:C:262:ARG:HE	1:2:227:ASN:ND2	1.91	0.68
1:F:71:THR:HB	1:F:196:LEU:HD12	1.76	0.68
1:K:262:ARG:HE	1:1:227:ASN:ND2	1.91	0.68
1:M:227:ASN:ND2	1:2:262:ARG:HE	1.91	0.68
1:N:71:THR:HB	1:N:196:LEU:HD12	1.76	0.68
1:Q:71:THR:HB	1:Q:196:LEU:HD12	1.76	0.68
1:W:262:ARG:HE	1:Y:227:ASN:ND2	1.91	0.68
1:1:262:ARG:HE	1:8:227:ASN:ND2	1.91	0.68
1:6:227:ASN:ND2	1:a:262:ARG:HE	1.91	0.68
1:a:176:TYR:CE2	1:a:178:GLN:HB2	2.29	0.68
1:c:71:THR:HB	1:c:196:LEU:HD12	1.76	0.68
1:j:71:THR:HB	1:j:196:LEU:HD12	1.76	0.68
1:n:372:PRO:HD3	1:p:279:ARG:HH12	1.58	0.68
1:r:71:THR:HB	1:r:196:LEU:HD12	1.76	0.68
1:s:71:THR:HB	1:s:196:LEU:HD12	1.76	0.68
1:u:445:CYS:N	1:u:448:ASN:OD1	2.21	0.68
1:y:176:TYR:CE2	1:y:178:GLN:HB2	2.28	0.68
1:A:71:THR:HB	1:A:196:LEU:HD12	1.76	0.68
1:C:176:TYR:CE2	1:C:178:GLN:HB2	2.29	0.68
1:D:71:THR:HB	1:D:196:LEU:HD12	1.76	0.68
1:H:176:TYR:CE2	1:H:178:GLN:HB2	2.28	0.68
1:J:342:VAL:HG11	1:J:365:GLN:HE21	1.59	0.68
1:L:71:THR:HB	1:L:196:LEU:HD12	1.76	0.68
1:P:176:TYR:CE2	1:P:178:GLN:HB2	2.28	0.68
1:2:176:TYR:CE2	1:2:178:GLN:HB2	2.28	0.68
1:2:342:VAL:HG11	1:2:365:GLN:HE21	1.58	0.68
1:5:176:TYR:CE2	1:5:178:GLN:HB2	2.29	0.68
1:6:342:VAL:HG11	1:6:365:GLN:HE21	1.58	0.68
1:c:342:VAL:HG11	1:c:365:GLN:HE21	1.58	0.68
1:d:262:ARG:HE	1:e:227:ASN:ND2	1.91	0.68
1:e:71:THR:HB	1:e:196:LEU:HD12	1.76	0.68
1:j:176:TYR:CE2	1:j:178:GLN:HB2	2.29	0.68
1:l:71:THR:HB	1:l:196:LEU:HD12	1.76	0.68
1:m:445:CYS:N	1:m:448:ASN:OD1	2.21	0.68
1:p:71:THR:HB	1:p:196:LEU:HD12	1.76	0.68
1:r:262:ARG:HE	1:s:227:ASN:ND2	1.91	0.68
1:t:71:THR:HB	1:t:196:LEU:HD12	1.76	0.68
1:w:372:PRO:HD3	1:x:279:ARG:HH12	1.58	0.68
1:x:176:TYR:CE2	1:x:178:GLN:HB2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:342:VAL:HG11	1:B:365:GLN:HE21	1.58	0.67
1:F:342:VAL:HG11	1:F:365:GLN:HE21	1.58	0.67
1:G:279:ARG:HH12	1:I:372:PRO:HD3	1.58	0.67
1:K:176:TYR:CE2	1:K:178:GLN:HB2	2.29	0.67
1:N:342:VAL:HG11	1:N:365:GLN:HE21	1.58	0.67
1:S:71:THR:HB	1:S:196:LEU:HD12	1.76	0.67
1:T:372:PRO:HD3	1:f:279:ARG:HH12	1.58	0.67
1:U:445:CYS:N	1:U:448:ASN:OD1	2.21	0.67
1:W:71:THR:HB	1:W:196:LEU:HD12	1.76	0.67
1:4:262:ARG:HE	1:f:227:ASN:ND2	1.91	0.67
1:6:176:TYR:CE2	1:6:178:GLN:HB2	2.28	0.67
1:6:262:ARG:HE	1:b:227:ASN:ND2	1.91	0.67
1:i:176:TYR:CE2	1:i:178:GLN:HB2	2.29	0.67
1:k:372:PRO:HD3	1:m:279:ARG:HH12	1.59	0.67
1:t:262:ARG:HE	1:u:227:ASN:ND2	1.90	0.67
1:D:227:ASN:ND2	1:P:262:ARG:HE	1.91	0.67
1:X:176:TYR:CE2	1:X:178:GLN:HB2	2.28	0.67
1:Z:372:PRO:HD3	1:w:279:ARG:HH12	1.58	0.67
1:3:176:TYR:CE2	1:3:178:GLN:HB2	2.28	0.67
1:d:176:TYR:CE2	1:d:178:GLN:HB2	2.29	0.67
1:o:71:THR:HB	1:o:196:LEU:HD12	1.76	0.67
1:y:227:ASN:ND2	1:7:262:ARG:HE	1.91	0.67
1:z:71:THR:HB	1:z:196:LEU:HD12	1.76	0.67
1:E:342:VAL:HG11	1:E:365:GLN:HE21	1.59	0.67
1:G:71:THR:HB	1:G:196:LEU:HD12	1.76	0.67
1:J:279:ARG:HH12	1:L:372:PRO:HD3	1.59	0.67
1:O:176:TYR:CE2	1:O:178:GLN:HB2	2.28	0.67
1:O:227:ASN:ND2	1:h:262:ARG:HE	1.91	0.67
1:O:279:ARG:HH12	1:g:372:PRO:HD3	1.58	0.67
1:R:71:THR:HB	1:R:196:LEU:HD12	1.76	0.67
1:R:372:PRO:HD3	1:U:279:ARG:HH12	1.59	0.67
1:S:176:TYR:CE2	1:S:178:GLN:HB2	2.28	0.67
1:3:279:ARG:HH12	1:i:372:PRO:HD3	1.58	0.67
1:k:71:THR:HB	1:k:196:LEU:HD12	1.76	0.67
1:l:176:TYR:CE2	1:l:178:GLN:HB2	2.28	0.67
1:s:342:VAL:HG11	1:s:365:GLN:HE21	1.58	0.67
1:t:372:PRO:HD3	1:v:279:ARG:HH12	1.58	0.67
1:I:71:THR:HB	1:I:196:LEU:HD12	1.76	0.67
1:V:342:VAL:HG11	1:V:365:GLN:HE21	1.58	0.67
1:X:372:PRO:HD3	1:5:279:ARG:HH12	1.58	0.67
1:Y:71:THR:HB	1:Y:196:LEU:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:279:ARG:HH12	1:8:372:PRO:HD3	1.58	0.67
1:n:71:THR:HB	1:n:196:LEU:HD12	1.76	0.67
1:n:279:ARG:HH12	1:o:372:PRO:HD3	1.58	0.67
1:q:342:VAL:HG11	1:q:365:GLN:HE21	1.59	0.67
1:7:71:THR:HB	1:7:196:LEU:HD12	1.76	0.67
1:H:227:ASN:ND2	1:Y:262:ARG:HE	1.91	0.67
1:P:71:THR:HB	1:P:196:LEU:HD12	1.76	0.67
1:U:342:VAL:HG11	1:U:365:GLN:HE21	1.58	0.67
1:d:71:THR:HB	1:d:196:LEU:HD12	1.76	0.67
1:f:176:TYR:CE2	1:f:178:GLN:HB2	2.28	0.67
1:w:71:THR:HB	1:w:196:LEU:HD12	1.76	0.67
1:C:164:VAL:HG21	1:C:502:VAL:HG21	1.74	0.67
1:R:342:VAL:HG11	1:R:365:GLN:HE21	1.58	0.67
1:Y:342:VAL:HG11	1:Y:365:GLN:HE21	1.58	0.67
1:Z:90:LEU:CD1	1:Z:342:VAL:HG11	2.25	0.67
1:a:164:VAL:HG21	1:a:502:VAL:HG21	1.74	0.67
1:h:164:VAL:HG21	1:h:502:VAL:HG21	1.74	0.67
1:n:90:LEU:CD1	1:n:342:VAL:HG11	2.25	0.67
1:C:71:THR:HB	1:C:196:LEU:HD12	1.76	0.67
1:G:90:LEU:CD1	1:G:342:VAL:HG11	2.25	0.67
1:T:90:LEU:CD1	1:T:342:VAL:HG11	2.25	0.67
1:1:71:THR:HB	1:1:196:LEU:HD12	1.76	0.67
1:4:90:LEU:CD1	1:4:342:VAL:HG11	2.25	0.67
1:d:279:ARG:HH12	1:e:372:PRO:HD3	1.58	0.67
1:g:90:LEU:CD1	1:g:342:VAL:HG11	2.25	0.67
1:h:90:LEU:CD1	1:h:342:VAL:HG11	2.25	0.67
1:i:342:VAL:HG11	1:i:365:GLN:HE21	1.58	0.67
1:j:342:VAL:HG11	1:j:365:GLN:HE21	1.58	0.67
1:n:445:CYS:N	1:n:448:ASN:OD1	2.21	0.67
1:t:279:ARG:HH12	1:u:372:PRO:HD3	1.59	0.67
1:u:71:THR:HB	1:u:196:LEU:HD12	1.76	0.67
1:y:71:THR:HB	1:y:196:LEU:HD12	1.76	0.67
1:8:90:LEU:CD1	1:8:342:VAL:HG11	2.25	0.67
1:B:90:LEU:CD1	1:B:342:VAL:HG11	2.25	0.67
1:H:71:THR:HB	1:H:196:LEU:HD12	1.76	0.67
1:T:342:VAL:HG11	1:T:365:GLN:HE21	1.58	0.67
1:V:90:LEU:CD1	1:V:342:VAL:HG11	2.25	0.67
1:4:164:VAL:HG21	1:4:502:VAL:HG21	1.74	0.67
1:a:71:THR:HB	1:a:196:LEU:HD12	1.76	0.67
1:b:342:VAL:HG11	1:b:365:GLN:HE21	1.58	0.67
1:j:90:LEU:CD1	1:j:342:VAL:HG11	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:342:VAL:HG11	1:k:365:GLN:HE21	1.58	0.67
1:l:342:VAL:HG11	1:l:365:GLN:HE21	1.58	0.67
1:m:342:VAL:HG11	1:m:365:GLN:HE21	1.58	0.67
1:n:262:ARG:HE	1:o:227:ASN:ND2	1.91	0.67
1:B:71:THR:HB	1:B:196:LEU:HD12	1.76	0.67
1:B:372:PRO:HD3	1:L:279:ARG:HH12	1.59	0.67
1:G:262:ARG:HE	1:I:227:ASN:ND2	1.91	0.67
1:K:84:GLN:HE21	1:K:94:LYS:HB3	1.60	0.67
1:M:342:VAL:HG11	1:M:365:GLN:HE21	1.58	0.67
1:X:71:THR:HB	1:X:196:LEU:HD12	1.76	0.67
1:X:342:VAL:HG11	1:X:365:GLN:HE21	1.58	0.67
1:4:71:THR:HB	1:4:196:LEU:HD12	1.76	0.67
1:j:84:GLN:HE21	1:j:94:LYS:HB3	1.60	0.67
1:r:90:LEU:CD1	1:r:342:VAL:HG11	2.25	0.67
1:u:90:LEU:CD1	1:u:342:VAL:HG11	2.25	0.67
1:7:342:VAL:HG11	1:7:365:GLN:HE21	1.58	0.67
1:C:90:LEU:CD1	1:C:342:VAL:HG11	2.25	0.67
1:E:90:LEU:CD1	1:E:342:VAL:HG11	2.25	0.67
1:L:90:LEU:CD1	1:L:342:VAL:HG11	2.25	0.67
1:N:84:GLN:HE21	1:N:94:LYS:HB3	1.60	0.67
1:O:71:THR:HB	1:O:196:LEU:HD12	1.76	0.67
1:Q:90:LEU:CD1	1:Q:342:VAL:HG11	2.25	0.67
1:S:342:VAL:HG11	1:S:365:GLN:HE21	1.58	0.67
1:V:84:GLN:HE21	1:V:94:LYS:HB3	1.60	0.67
1:V:372:PRO:HD3	1:X:279:ARG:HH12	1.58	0.67
1:W:90:LEU:CD1	1:W:342:VAL:HG11	2.25	0.67
1:5:90:LEU:CD1	1:5:342:VAL:HG11	2.25	0.67
1:a:90:LEU:CD1	1:a:342:VAL:HG11	2.25	0.67
1:c:84:GLN:HE21	1:c:94:LYS:HB3	1.60	0.67
1:g:342:VAL:HG11	1:g:365:GLN:HE21	1.58	0.67
1:l:90:LEU:CD1	1:l:342:VAL:HG11	2.25	0.67
1:p:84:GLN:HE21	1:p:94:LYS:HB3	1.60	0.67
1:t:90:LEU:CD1	1:t:342:VAL:HG11	2.25	0.67
1:x:84:GLN:HE21	1:x:94:LYS:HB3	1.60	0.67
1:z:90:LEU:CD1	1:z:342:VAL:HG11	2.25	0.67
1:A:84:GLN:HE21	1:A:94:LYS:HB3	1.60	0.66
1:D:372:PRO:HD3	1:P:279:ARG:HH12	1.58	0.66
1:G:445:CYS:N	1:G:448:ASN:OD1	2.21	0.66
1:S:90:LEU:CD1	1:S:342:VAL:HG11	2.25	0.66
1:3:90:LEU:CD1	1:3:342:VAL:HG11	2.25	0.66
1:g:445:CYS:N	1:g:448:ASN:OD1	2.21	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:71:THR:HB	1:h:196:LEU:HD12	1.76	0.66
1:i:71:THR:HB	1:i:196:LEU:HD12	1.76	0.66
1:i:90:LEU:CD1	1:i:342:VAL:HG11	2.25	0.66
1:q:84:GLN:HE21	1:q:94:LYS:HB3	1.60	0.66
1:q:90:LEU:CD1	1:q:342:VAL:HG11	2.25	0.66
1:E:84:GLN:HE21	1:E:94:LYS:HB3	1.60	0.66
1:K:71:THR:HB	1:K:196:LEU:HD12	1.76	0.66
1:U:84:GLN:HE21	1:U:94:LYS:HB3	1.60	0.66
1:X:90:LEU:CD1	1:X:342:VAL:HG11	2.25	0.66
1:3:342:VAL:HG11	1:3:365:GLN:HE21	1.58	0.66
1:5:71:THR:HB	1:5:196:LEU:HD12	1.76	0.66
1:6:372:PRO:HD3	1:a:279:ARG:HH12	1.58	0.66
1:i:279:ARG:HH12	1:j:372:PRO:HD3	1.58	0.66
1:m:84:GLN:HE21	1:m:94:LYS:HB3	1.60	0.66
1:A:90:LEU:CD1	1:A:342:VAL:HG11	2.25	0.66
1:C:279:ARG:HH12	1:2:372:PRO:HD3	1.58	0.66
1:D:90:LEU:CD1	1:D:342:VAL:HG11	2.25	0.66
1:G:84:GLN:HE21	1:G:94:LYS:HB3	1.60	0.66
1:J:90:LEU:CD1	1:J:342:VAL:HG11	2.25	0.66
1:M:71:THR:HB	1:M:196:LEU:HD12	1.76	0.66
1:5:342:VAL:HG11	1:5:365:GLN:HE21	1.58	0.66
1:f:71:THR:HB	1:f:196:LEU:HD12	1.76	0.66
1:p:90:LEU:CD1	1:p:342:VAL:HG11	2.25	0.66
1:x:71:THR:HB	1:x:196:LEU:HD12	1.76	0.66
1:N:90:LEU:CD1	1:N:342:VAL:HG11	2.25	0.66
1:T:445:CYS:N	1:T:448:ASN:OD1	2.21	0.66
1:b:71:THR:HB	1:b:196:LEU:HD12	1.76	0.66
1:e:90:LEU:CD1	1:e:342:VAL:HG11	2.25	0.66
1:g:71:THR:HB	1:g:196:LEU:HD12	1.76	0.66
1:n:84:GLN:HE21	1:n:94:LYS:HB3	1.60	0.66
1:w:90:LEU:CD1	1:w:342:VAL:HG11	2.25	0.66
1:F:84:GLN:HE21	1:F:94:LYS:HB3	1.60	0.66
1:H:84:GLN:HE21	1:H:94:LYS:HB3	1.60	0.66
1:M:90:LEU:CD1	1:M:342:VAL:HG11	2.25	0.66
1:U:90:LEU:CD1	1:U:342:VAL:HG11	2.25	0.66
1:3:71:THR:HB	1:3:196:LEU:HD12	1.76	0.66
1:c:90:LEU:CD1	1:c:342:VAL:HG11	2.25	0.66
1:c:445:CYS:N	1:c:448:ASN:OD1	2.21	0.66
1:m:90:LEU:CD1	1:m:342:VAL:HG11	2.25	0.66
1:v:90:LEU:CD1	1:v:342:VAL:HG11	2.25	0.66
1:O:90:LEU:CD1	1:O:342:VAL:HG11	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:71:THR:HB	1:T:196:LEU:HD12	1.76	0.66
1:1:90:LEU:CD1	1:1:342:VAL:HG11	2.25	0.66
1:2:90:LEU:CD1	1:2:342:VAL:HG11	2.25	0.66
1:4:84:GLN:HE21	1:4:94:LYS:HB3	1.60	0.66
1:4:342:VAL:HG11	1:4:365:GLN:HE21	1.58	0.66
1:f:90:LEU:CD1	1:f:342:VAL:HG11	2.25	0.66
1:s:84:GLN:HE21	1:s:94:LYS:HB3	1.60	0.66
1:t:84:GLN:HE21	1:t:94:LYS:HB3	1.60	0.66
1:L:84:GLN:HE21	1:L:94:LYS:HB3	1.60	0.66
1:N:445:CYS:N	1:N:448:ASN:OD1	2.21	0.66
1:6:71:THR:HB	1:6:196:LEU:HD12	1.76	0.66
1:6:84:GLN:HE21	1:6:94:LYS:HB3	1.60	0.66
1:6:90:LEU:CD1	1:6:342:VAL:HG11	2.25	0.66
1:b:90:LEU:CD1	1:b:342:VAL:HG11	2.25	0.66
1:h:342:VAL:HG11	1:h:365:GLN:HE21	1.58	0.66
1:q:71:THR:HB	1:q:196:LEU:HD12	1.76	0.66
1:y:84:GLN:HE21	1:y:94:LYS:HB3	1.60	0.66
1:8:71:THR:HB	1:8:196:LEU:HD12	1.76	0.66
1:S:84:GLN:HE21	1:S:94:LYS:HB3	1.60	0.66
1:1:84:GLN:HE21	1:1:94:LYS:HB3	1.60	0.66
1:2:71:THR:HB	1:2:196:LEU:HD12	1.76	0.66
1:a:84:GLN:HE21	1:a:94:LYS:HB3	1.60	0.66
1:h:84:GLN:HE21	1:h:94:LYS:HB3	1.60	0.66
1:k:445:CYS:N	1:k:448:ASN:OD1	2.21	0.66
1:8:84:GLN:HE21	1:8:94:LYS:HB3	1.60	0.66
1:E:71:THR:HB	1:E:196:LEU:HD12	1.76	0.66
1:Z:71:THR:HB	1:Z:196:LEU:HD12	1.76	0.66
1:d:90:LEU:CD1	1:d:342:VAL:HG11	2.25	0.66
1:o:84:GLN:HE21	1:o:94:LYS:HB3	1.60	0.66
1:I:84:GLN:HE21	1:I:94:LYS:HB3	1.60	0.66
1:P:90:LEU:CD1	1:P:342:VAL:HG11	2.25	0.66
1:Z:84:GLN:HE21	1:Z:94:LYS:HB3	1.60	0.66
1:2:84:GLN:HE21	1:2:94:LYS:HB3	1.60	0.66
1:l:84:GLN:HE21	1:l:94:LYS:HB3	1.60	0.66
1:w:84:GLN:HE21	1:w:94:LYS:HB3	1.60	0.66
1:y:181:TRP:HH2	1:y:448:ASN:HD22	1.44	0.66
1:C:84:GLN:HE21	1:C:94:LYS:HB3	1.60	0.65
1:H:90:LEU:CD1	1:H:342:VAL:HG11	2.25	0.65
1:H:181:TRP:HH2	1:H:448:ASN:HD22	1.44	0.65
1:M:84:GLN:HE21	1:M:94:LYS:HB3	1.60	0.65
1:R:90:LEU:CD1	1:R:342:VAL:HG11	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:445:CYS:N	1:R:448:ASN:OD1	2.21	0.65
1:T:84:GLN:HE21	1:T:94:LYS:HB3	1.60	0.65
1:y:90:LEU:CD1	1:y:342:VAL:HG11	2.25	0.65
1:F:90:LEU:CD1	1:F:342:VAL:HG11	2.25	0.65
1:O:84:GLN:HE21	1:O:94:LYS:HB3	1.60	0.65
1:P:84:GLN:HE21	1:P:94:LYS:HB3	1.60	0.65
1:Y:90:LEU:CD1	1:Y:342:VAL:HG11	2.25	0.65
1:f:84:GLN:HE21	1:f:94:LYS:HB3	1.60	0.65
1:k:90:LEU:CD1	1:k:342:VAL:HG11	2.25	0.65
1:x:181:TRP:HH2	1:x:448:ASN:HD22	1.44	0.65
1:y:445:CYS:N	1:y:448:ASN:OD1	2.21	0.65
1:8:181:TRP:HH2	1:8:448:ASN:HD22	1.44	0.65
1:K:181:TRP:HH2	1:K:448:ASN:HD22	1.44	0.65
1:Y:181:TRP:HH2	1:Y:448:ASN:HD22	1.45	0.65
1:Z:181:TRP:HH2	1:Z:448:ASN:HD22	1.44	0.65
1:b:84:GLN:HE21	1:b:94:LYS:HB3	1.60	0.65
1:g:84:GLN:HE21	1:g:94:LYS:HB3	1.60	0.65
1:7:90:LEU:CD1	1:7:342:VAL:HG11	2.25	0.65
1:J:84:GLN:HE21	1:J:94:LYS:HB3	1.60	0.65
1:Y:84:GLN:HE21	1:Y:94:LYS:HB3	1.60	0.65
1:1:181:TRP:HH2	1:1:448:ASN:HD22	1.45	0.65
1:4:445:CYS:N	1:4:448:ASN:OD1	2.21	0.65
1:f:181:TRP:HH2	1:f:448:ASN:HD22	1.44	0.65
1:i:445:CYS:N	1:i:448:ASN:OD1	2.21	0.65
1:o:181:TRP:HH2	1:o:448:ASN:HD22	1.45	0.65
1:s:90:LEU:CD1	1:s:342:VAL:HG11	2.25	0.65
1:w:181:TRP:HH2	1:w:448:ASN:HD22	1.45	0.65
1:7:181:TRP:HH2	1:7:448:ASN:HD22	1.45	0.65
1:H:445:CYS:N	1:H:448:ASN:OD1	2.21	0.65
1:I:181:TRP:HH2	1:I:448:ASN:HD22	1.45	0.65
1:L:181:TRP:HH2	1:L:448:ASN:HD22	1.45	0.65
1:O:181:TRP:HH2	1:O:448:ASN:HD22	1.44	0.65
1:W:84:GLN:HE21	1:W:94:LYS:HB3	1.60	0.65
1:d:84:GLN:HE21	1:d:94:LYS:HB3	1.60	0.65
1:q:181:TRP:HH2	1:q:448:ASN:HD22	1.44	0.65
1:t:181:TRP:HH2	1:t:448:ASN:HD22	1.45	0.65
1:v:84:GLN:HE21	1:v:94:LYS:HB3	1.60	0.65
1:x:90:LEU:CD1	1:x:342:VAL:HG11	2.25	0.65
1:E:181:TRP:HH2	1:E:448:ASN:HD22	1.44	0.65
1:K:90:LEU:CD1	1:K:342:VAL:HG11	2.25	0.65
1:r:445:CYS:N	1:r:448:ASN:OD1	2.21	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:84:GLN:HE21	1:7:94:LYS:HB3	1.60	0.65
1:I:90:LEU:CD1	1:I:342:VAL:HG11	2.25	0.65
1:X:84:GLN:HE21	1:X:94:LYS:HB3	1.60	0.65
1:3:84:GLN:HE21	1:3:94:LYS:HB3	1.60	0.65
1:e:84:GLN:HE21	1:e:94:LYS:HB3	1.60	0.65
1:i:84:GLN:HE21	1:i:94:LYS:HB3	1.60	0.65
1:o:90:LEU:CD1	1:o:342:VAL:HG11	2.25	0.65
1:z:84:GLN:HE21	1:z:94:LYS:HB3	1.60	0.65
1:z:181:TRP:HH2	1:z:448:ASN:HD22	1.45	0.65
1:D:84:GLN:HE21	1:D:94:LYS:HB3	1.60	0.65
1:O:445:CYS:N	1:O:448:ASN:OD1	2.21	0.65
1:W:181:TRP:HH2	1:W:448:ASN:HD22	1.45	0.65
1:X:445:CYS:N	1:X:448:ASN:OD1	2.21	0.65
1:f:445:CYS:N	1:f:448:ASN:OD1	2.21	0.65
1:h:445:CYS:N	1:h:448:ASN:OD1	2.21	0.65
1:v:181:TRP:HH2	1:v:448:ASN:HD22	1.45	0.65
1:J:181:TRP:HH2	1:J:448:ASN:HD22	1.45	0.65
1:R:84:GLN:HE21	1:R:94:LYS:HB3	1.60	0.65
1:5:84:GLN:HE21	1:5:94:LYS:HB3	1.60	0.65
1:Q:445:CYS:N	1:Q:448:ASN:OD1	2.21	0.64
1:R:181:TRP:HH2	1:R:448:ASN:HD22	1.45	0.64
1:V:445:CYS:N	1:V:448:ASN:OD1	2.21	0.64
1:j:445:CYS:N	1:j:448:ASN:OD1	2.21	0.64
1:k:84:GLN:HE21	1:k:94:LYS:HB3	1.60	0.64
1:u:84:GLN:HE21	1:u:94:LYS:HB3	1.60	0.64
1:k:181:TRP:HH2	1:k:448:ASN:HD22	1.45	0.64
1:A:181:TRP:HH2	1:A:448:ASN:HD22	1.45	0.64
1:T:181:TRP:HH2	1:T:448:ASN:HD22	1.45	0.64
1:V:181:TRP:HH2	1:V:448:ASN:HD22	1.45	0.64
1:j:181:TRP:HH2	1:j:448:ASN:HD22	1.45	0.64
1:m:181:TRP:HH2	1:m:448:ASN:HD22	1.45	0.64
1:B:84:GLN:HE21	1:B:94:LYS:HB3	1.60	0.64
1:Q:84:GLN:HE21	1:Q:94:LYS:HB3	1.60	0.64
1:U:181:TRP:HH2	1:U:448:ASN:HD22	1.45	0.64
1:l:445:CYS:N	1:l:448:ASN:OD1	2.21	0.64
1:g:181:TRP:HH2	1:g:448:ASN:HD22	1.45	0.64
1:p:181:TRP:HH2	1:p:448:ASN:HD22	1.45	0.64
1:q:445:CYS:N	1:q:448:ASN:OD1	2.21	0.64
1:C:445:CYS:N	1:C:448:ASN:OD1	2.21	0.64
1:l:445:CYS:N	1:l:448:ASN:OD1	2.21	0.64
1:r:84:GLN:HE21	1:r:94:LYS:HB3	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:181:TRP:HH2	1:B:448:ASN:HD22	1.45	0.64
1:w:445:CYS:N	1:w:448:ASN:OD1	2.21	0.64
1:2:181:TRP:HH2	1:2:448:ASN:HD22	1.45	0.64
1:a:445:CYS:N	1:a:448:ASN:OD1	2.21	0.64
1:u:181:TRP:HH2	1:u:448:ASN:HD22	1.45	0.64
1:E:445:CYS:N	1:E:448:ASN:OD1	2.21	0.64
1:Q:181:TRP:HH2	1:Q:448:ASN:HD22	1.45	0.64
1:X:181:TRP:HH2	1:X:448:ASN:HD22	1.44	0.64
1:S:445:CYS:N	1:S:448:ASN:OD1	2.21	0.64
1:6:181:TRP:HH2	1:6:448:ASN:HD22	1.45	0.64
1:r:181:TRP:HH2	1:r:448:ASN:HD22	1.45	0.64
1:P:181:TRP:HH2	1:P:448:ASN:HD22	1.44	0.63
1:h:181:TRP:HH2	1:h:448:ASN:HD22	1.45	0.63
1:i:181:TRP:HH2	1:i:448:ASN:HD22	1.44	0.63
1:y:84:GLN:NE2	1:y:95:PRO:HD2	2.14	0.63
1:H:84:GLN:NE2	1:H:95:PRO:HD2	2.14	0.63
1:4:181:TRP:HH2	1:4:448:ASN:HD22	1.45	0.63
1:B:84:GLN:NE2	1:B:95:PRO:HD2	2.14	0.63
1:F:181:TRP:HH2	1:F:448:ASN:HD22	1.45	0.63
1:G:181:TRP:HH2	1:G:448:ASN:HD22	1.44	0.63
1:N:84:GLN:NE2	1:N:95:PRO:HD2	2.14	0.63
1:2:84:GLN:NE2	1:2:95:PRO:HD2	2.14	0.63
1:6:84:GLN:NE2	1:6:95:PRO:HD2	2.14	0.63
1:l:402:ASN:HB2	1:m:217:PRO:HD3	1.81	0.63
1:s:181:TRP:HH2	1:s:448:ASN:HD22	1.45	0.63
1:u:84:GLN:NE2	1:u:95:PRO:HD2	2.14	0.63
1:z:84:GLN:NE2	1:z:95:PRO:HD2	2.14	0.63
1:W:84:GLN:NE2	1:W:95:PRO:HD2	2.14	0.63
1:Z:84:GLN:NE2	1:Z:95:PRO:HD2	2.14	0.63
1:c:84:GLN:NE2	1:c:95:PRO:HD2	2.14	0.63
1:n:84:GLN:NE2	1:n:95:PRO:HD2	2.14	0.63
1:8:84:GLN:NE2	1:8:95:PRO:HD2	2.14	0.63
1:G:84:GLN:NE2	1:G:95:PRO:HD2	2.14	0.63
1:S:402:ASN:HB2	1:U:217:PRO:HD3	1.81	0.63
1:d:181:TRP:HH2	1:d:448:ASN:HD22	1.44	0.63
1:v:84:GLN:NE2	1:v:95:PRO:HD2	2.14	0.63
1:F:84:GLN:NE2	1:F:95:PRO:HD2	2.14	0.63
1:I:84:GLN:NE2	1:I:95:PRO:HD2	2.14	0.63
1:J:84:GLN:NE2	1:J:95:PRO:HD2	2.14	0.63
1:J:402:ASN:HB2	1:L:217:PRO:HD3	1.80	0.63
1:M:84:GLN:NE2	1:M:95:PRO:HD2	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:84:GLN:NE2	1:S:95:PRO:HD2	2.14	0.63
1:W:445:CYS:N	1:W:448:ASN:OD1	2.21	0.63
1:l:84:GLN:NE2	1:l:95:PRO:HD2	2.14	0.63
1:l:181:TRP:HH2	1:l:448:ASN:HD22	1.45	0.63
1:n:181:TRP:HH2	1:n:448:ASN:HD22	1.44	0.63
1:s:84:GLN:NE2	1:s:95:PRO:HD2	2.14	0.63
1:z:445:CYS:N	1:z:448:ASN:OD1	2.21	0.63
1:K:84:GLN:NE2	1:K:95:PRO:HD2	2.14	0.63
1:S:181:TRP:HH2	1:S:448:ASN:HD22	1.45	0.63
1:a:84:GLN:NE2	1:a:95:PRO:HD2	2.14	0.63
1:d:84:GLN:NE2	1:d:95:PRO:HD2	2.14	0.63
1:e:181:TRP:HH2	1:e:448:ASN:HD22	1.45	0.63
1:k:84:GLN:NE2	1:k:95:PRO:HD2	2.14	0.63
1:o:84:GLN:NE2	1:o:95:PRO:HD2	2.14	0.63
1:o:445:CYS:N	1:o:448:ASN:OD1	2.21	0.63
1:t:445:CYS:N	1:t:448:ASN:OD1	2.21	0.63
1:x:84:GLN:NE2	1:x:95:PRO:HD2	2.14	0.63
1:x:445:CYS:N	1:x:448:ASN:OD1	2.21	0.63
1:A:84:GLN:NE2	1:A:95:PRO:HD2	2.14	0.63
1:C:84:GLN:NE2	1:C:95:PRO:HD2	2.14	0.63
1:P:84:GLN:NE2	1:P:95:PRO:HD2	2.14	0.63
1:R:84:GLN:NE2	1:R:95:PRO:HD2	2.14	0.63
1:T:84:GLN:NE2	1:T:95:PRO:HD2	2.14	0.63
1:3:445:CYS:N	1:3:448:ASN:OD1	2.21	0.63
1:4:84:GLN:NE2	1:4:95:PRO:HD2	2.14	0.63
1:b:84:GLN:NE2	1:b:95:PRO:HD2	2.14	0.63
1:g:84:GLN:NE2	1:g:95:PRO:HD2	2.14	0.63
1:C:181:TRP:HH2	1:C:448:ASN:HD22	1.44	0.62
1:D:181:TRP:HH2	1:D:448:ASN:HD22	1.45	0.62
1:E:84:GLN:NE2	1:E:95:PRO:HD2	2.14	0.62
1:W:205:GLN:NE2	1:W:368:TRP:HE1	1.98	0.62
1:3:181:TRP:HH2	1:3:448:ASN:HD22	1.45	0.62
1:p:84:GLN:NE2	1:p:95:PRO:HD2	2.14	0.62
1:z:205:GLN:NE2	1:z:368:TRP:HE1	1.98	0.62
1:I:205:GLN:NE2	1:I:368:TRP:HE1	1.98	0.62
1:L:445:CYS:N	1:L:448:ASN:OD1	2.21	0.62
1:O:84:GLN:NE2	1:O:95:PRO:HD2	2.14	0.62
1:1:84:GLN:NE2	1:1:95:PRO:HD2	2.14	0.62
1:1:205:GLN:NE2	1:1:368:TRP:HE1	1.97	0.62
1:5:181:TRP:HH2	1:5:448:ASN:HD22	1.45	0.62
1:h:84:GLN:NE2	1:h:95:PRO:HD2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:445:CYS:N	1:v:448:ASN:OD1	2.21	0.62
1:w:205:GLN:NE2	1:w:368:TRP:HE1	1.97	0.62
1:7:84:GLN:NE2	1:7:95:PRO:HD2	2.14	0.62
1:I:445:CYS:N	1:I:448:ASN:OD1	2.21	0.62
1:K:445:CYS:N	1:K:448:ASN:OD1	2.21	0.62
1:O:205:GLN:NE2	1:O:368:TRP:HE1	1.98	0.62
1:Q:84:GLN:NE2	1:Q:95:PRO:HD2	2.14	0.62
1:R:205:GLN:NE2	1:R:368:TRP:HE1	1.97	0.62
1:Y:205:GLN:NE2	1:Y:368:TRP:HE1	1.98	0.62
1:f:205:GLN:NE2	1:f:368:TRP:HE1	1.98	0.62
1:k:205:GLN:NE2	1:k:368:TRP:HE1	1.97	0.62
1:o:205:GLN:NE2	1:o:368:TRP:HE1	1.98	0.62
1:q:84:GLN:NE2	1:q:95:PRO:HD2	2.14	0.62
1:w:84:GLN:NE2	1:w:95:PRO:HD2	2.14	0.62
1:7:205:GLN:NE2	1:7:368:TRP:HE1	1.98	0.62
1:D:84:GLN:NE2	1:D:95:PRO:HD2	2.14	0.62
1:J:445:CYS:N	1:J:448:ASN:OD1	2.21	0.62
1:X:205:GLN:NE2	1:X:368:TRP:HE1	1.98	0.62
1:Y:84:GLN:NE2	1:Y:95:PRO:HD2	2.14	0.62
1:f:84:GLN:NE2	1:f:95:PRO:HD2	2.14	0.62
1:i:205:GLN:NE2	1:i:368:TRP:HE1	1.97	0.62
1:r:84:GLN:NE2	1:r:95:PRO:HD2	2.14	0.62
1:G:205:GLN:NE2	1:G:368:TRP:HE1	1.97	0.62
1:V:84:GLN:NE2	1:V:95:PRO:HD2	2.14	0.62
1:5:445:CYS:N	1:5:448:ASN:OD1	2.21	0.62
1:a:181:TRP:HH2	1:a:448:ASN:HD22	1.45	0.62
1:b:181:TRP:HH2	1:b:448:ASN:HD22	1.44	0.62
1:n:205:GLN:NE2	1:n:368:TRP:HE1	1.98	0.62
1:C:205:GLN:NE2	1:C:368:TRP:HE1	1.97	0.62
1:L:84:GLN:NE2	1:L:95:PRO:HD2	2.14	0.62
1:M:181:TRP:HH2	1:M:448:ASN:HD22	1.44	0.62
1:O:402:ASN:HB2	1:g:217:PRO:HD3	1.82	0.62
1:U:205:GLN:NE2	1:U:368:TRP:HE1	1.98	0.62
1:a:205:GLN:NE2	1:a:368:TRP:HE1	1.98	0.62
1:b:445:CYS:N	1:b:448:ASN:OD1	2.21	0.62
1:e:84:GLN:NE2	1:e:95:PRO:HD2	2.14	0.62
1:m:205:GLN:NE2	1:m:368:TRP:HE1	1.98	0.62
1:t:84:GLN:NE2	1:t:95:PRO:HD2	2.14	0.62
1:K:205:GLN:NE2	1:K:368:TRP:HE1	1.97	0.62
1:N:181:TRP:HH2	1:N:448:ASN:HD22	1.45	0.62
1:T:217:PRO:HD3	1:f:402:ASN:HB2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:402:ASN:HB2	1:N:217:PRO:HD3	1.82	0.62
1:J:262:ARG:HE	1:L:227:ASN:HD22	1.48	0.62
1:c:217:PRO:HD3	1:e:402:ASN:HB2	1.82	0.62
1:j:84:GLN:NE2	1:j:95:PRO:HD2	2.14	0.62
1:3:84:GLN:NE2	1:3:95:PRO:HD2	2.14	0.62
1:5:84:GLN:NE2	1:5:95:PRO:HD2	2.14	0.62
1:c:205:GLN:NE2	1:c:368:TRP:HE1	1.98	0.62
1:t:90:LEU:HD13	1:t:342:VAL:HG11	1.82	0.62
1:x:205:GLN:NE2	1:x:368:TRP:HE1	1.97	0.62
1:E:205:GLN:NE2	1:E:368:TRP:HE1	1.98	0.62
1:N:205:GLN:NE2	1:N:368:TRP:HE1	1.98	0.62
1:U:84:GLN:NE2	1:U:95:PRO:HD2	2.14	0.62
1:1:90:LEU:CD1	1:1:342:VAL:CG1	2.78	0.62
1:6:90:LEU:CD1	1:6:342:VAL:CG1	2.78	0.62
1:c:181:TRP:HH2	1:c:448:ASN:HD22	1.45	0.62
1:j:205:GLN:NE2	1:j:368:TRP:HE1	1.98	0.62
1:m:84:GLN:NE2	1:m:95:PRO:HD2	2.14	0.62
1:q:217:PRO:HD3	1:s:402:ASN:HB2	1.82	0.62
1:r:402:ASN:HB2	1:s:217:PRO:HD3	1.82	0.62
1:w:90:LEU:CD1	1:w:342:VAL:CG1	2.78	0.62
1:A:402:ASN:HB2	1:G:217:PRO:HD3	1.82	0.61
1:E:217:PRO:HD3	1:F:402:ASN:HB2	1.82	0.61
1:F:217:PRO:HD3	1:Q:402:ASN:HB2	1.82	0.61
1:J:90:LEU:HD13	1:J:342:VAL:HG11	1.82	0.61
1:K:217:PRO:HD3	1:8:402:ASN:HB2	1.82	0.61
1:L:90:LEU:HD13	1:L:342:VAL:HG11	1.82	0.61
1:M:445:CYS:N	1:M:448:ASN:OD1	2.21	0.61
1:V:90:LEU:HD13	1:V:342:VAL:HG11	1.82	0.61
1:Z:90:LEU:CD1	1:Z:342:VAL:CG1	2.78	0.61
1:Z:402:ASN:HB2	1:x:217:PRO:HD3	1.82	0.61
1:2:90:LEU:CD1	1:2:342:VAL:CG1	2.78	0.61
1:j:90:LEU:HD13	1:j:342:VAL:HG11	1.82	0.61
1:n:217:PRO:HD3	1:p:402:ASN:HB2	1.82	0.61
1:q:205:GLN:NE2	1:q:368:TRP:HE1	1.98	0.61
1:8:90:LEU:CD1	1:8:342:VAL:CG1	2.78	0.61
1:B:90:LEU:CD1	1:B:342:VAL:CG1	2.78	0.61
1:B:205:GLN:NE2	1:B:368:TRP:HE1	1.97	0.61
1:P:90:LEU:CD1	1:P:342:VAL:CG1	2.78	0.61
1:R:402:ASN:HB2	1:S:217:PRO:HD3	1.82	0.61
1:T:90:LEU:CD1	1:T:342:VAL:CG1	2.78	0.61
1:V:205:GLN:NE2	1:V:368:TRP:HE1	1.98	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:90:LEU:CD1	1:d:342:VAL:CG1	2.78	0.61
1:d:445:CYS:N	1:d:448:ASN:OD1	2.21	0.61
1:g:90:LEU:CD1	1:g:342:VAL:CG1	2.78	0.61
1:x:90:LEU:CD1	1:x:342:VAL:CG1	2.78	0.61
1:C:90:LEU:CD1	1:C:342:VAL:CG1	2.78	0.61
1:E:402:ASN:HB2	1:Q:217:PRO:HD3	1.82	0.61
1:W:90:LEU:CD1	1:W:342:VAL:CG1	2.78	0.61
1:W:402:ASN:HB2	1:Y:217:PRO:HD3	1.82	0.61
1:1:167:PHE:HB2	1:1:238:HIS:HB3	1.83	0.61
1:6:445:CYS:N	1:6:448:ASN:OD1	2.21	0.61
1:j:167:PHE:HB2	1:j:238:HIS:HB3	1.83	0.61
1:k:402:ASN:HB2	1:l:217:PRO:HD3	1.82	0.61
1:q:402:ASN:HB2	1:r:217:PRO:HD3	1.82	0.61
1:u:90:LEU:CD1	1:u:342:VAL:CG1	2.78	0.61
1:v:90:LEU:HD13	1:v:342:VAL:HG11	1.82	0.61
1:w:167:PHE:HB2	1:w:238:HIS:HB3	1.83	0.61
1:C:402:ASN:HB2	1:2:217:PRO:HD3	1.82	0.61
1:D:167:PHE:HB2	1:D:238:HIS:HB3	1.83	0.61
1:F:167:PHE:HB2	1:F:238:HIS:HB3	1.83	0.61
1:H:217:PRO:HD3	1:Y:402:ASN:HB2	1.82	0.61
1:K:90:LEU:CD1	1:K:342:VAL:CG1	2.78	0.61
1:N:90:LEU:CD1	1:N:342:VAL:CG1	2.78	0.61
1:P:445:CYS:N	1:P:448:ASN:OD1	2.21	0.61
1:T:90:LEU:HD13	1:T:342:VAL:HG11	1.82	0.61
1:Z:445:CYS:N	1:Z:448:ASN:OD1	2.21	0.61
1:6:217:PRO:HD3	1:a:402:ASN:HB2	1.82	0.61
1:a:90:LEU:CD1	1:a:342:VAL:CG1	2.78	0.61
1:c:90:LEU:CD1	1:c:342:VAL:CG1	2.78	0.61
1:g:90:LEU:HD13	1:g:342:VAL:HG11	1.82	0.61
1:s:167:PHE:HB2	1:s:238:HIS:HB3	1.83	0.61
1:t:217:PRO:HD3	1:v:402:ASN:HB2	1.81	0.61
1:t:402:ASN:HB2	1:u:217:PRO:HD3	1.81	0.61
1:u:205:GLN:NE2	1:u:368:TRP:HE1	1.97	0.61
1:y:217:PRO:HD3	1:7:402:ASN:HB2	1.82	0.61
1:z:90:LEU:CD1	1:z:342:VAL:CG1	2.78	0.61
1:z:402:ASN:HB2	1:7:217:PRO:HD3	1.82	0.61
1:B:402:ASN:HB2	1:J:217:PRO:HD3	1.81	0.61
1:D:217:PRO:HD3	1:P:402:ASN:HB2	1.82	0.61
1:M:217:PRO:HD3	1:2:402:ASN:HB2	1.82	0.61
1:R:217:PRO:HD3	1:U:402:ASN:HB2	1.81	0.61
1:V:167:PHE:HB2	1:V:238:HIS:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:167:PHE:HB2	1:4:238:HIS:HB3	1.83	0.61
1:6:205:GLN:NE2	1:6:368:TRP:HE1	1.97	0.61
1:6:402:ASN:HB2	1:b:217:PRO:HD3	1.82	0.61
1:d:205:GLN:NE2	1:d:368:TRP:HE1	1.97	0.61
1:e:167:PHE:HB2	1:e:238:HIS:HB3	1.83	0.61
1:i:167:PHE:HB2	1:i:238:HIS:HB3	1.83	0.61
1:k:217:PRO:HD3	1:m:402:ASN:HB2	1.81	0.61
1:B:217:PRO:HD3	1:L:402:ASN:HB2	1.81	0.61
1:G:402:ASN:HB2	1:I:217:PRO:HD3	1.82	0.61
1:P:205:GLN:NE2	1:P:368:TRP:HE1	1.97	0.61
1:X:167:PHE:HB2	1:X:238:HIS:HB3	1.83	0.61
1:2:205:GLN:NE2	1:2:368:TRP:HE1	1.97	0.61
1:5:205:GLN:NE2	1:5:368:TRP:HE1	1.97	0.61
1:d:402:ASN:HB2	1:e:217:PRO:HD3	1.82	0.61
1:h:167:PHE:HB2	1:h:238:HIS:HB3	1.83	0.61
1:n:402:ASN:HB2	1:o:217:PRO:HD3	1.82	0.61
1:p:445:CYS:N	1:p:448:ASN:OD1	2.21	0.61
1:q:90:LEU:HD13	1:q:342:VAL:HG11	1.82	0.61
1:s:205:GLN:NE2	1:s:368:TRP:HE1	1.97	0.61
1:J:403:LEU:HD21	1:L:223:MET:HE1	1.82	0.61
1:O:217:PRO:HD3	1:h:402:ASN:HB2	1.82	0.61
1:3:205:GLN:NE2	1:3:368:TRP:HE1	1.97	0.61
1:4:402:ASN:HB2	1:f:217:PRO:HD3	1.82	0.61
1:b:205:GLN:NE2	1:b:368:TRP:HE1	1.97	0.61
1:w:90:LEU:HD13	1:w:342:VAL:HG11	1.82	0.61
1:A:217:PRO:HD3	1:I:402:ASN:HB2	1.82	0.61
1:E:90:LEU:HD13	1:E:342:VAL:HG11	1.82	0.61
1:F:205:GLN:NE2	1:F:368:TRP:HE1	1.97	0.61
1:K:402:ASN:HB2	1:1:217:PRO:HD3	1.82	0.61
1:M:205:GLN:NE2	1:M:368:TRP:HE1	1.98	0.61
1:X:84:GLN:NE2	1:X:95:PRO:HD2	2.14	0.61
1:2:445:CYS:N	1:2:448:ASN:OD1	2.21	0.61
1:h:205:GLN:NE2	1:h:368:TRP:HE1	1.97	0.61
1:r:167:PHE:HB2	1:r:238:HIS:HB3	1.83	0.61
1:8:167:PHE:HB2	1:8:238:HIS:HB3	1.83	0.61
1:8:445:CYS:N	1:8:448:ASN:OD1	2.21	0.61
1:A:205:GLN:NE2	1:A:368:TRP:HE1	1.97	0.61
1:E:167:PHE:HB2	1:E:238:HIS:HB3	1.83	0.61
1:N:167:PHE:HB2	1:N:238:HIS:HB3	1.83	0.61
1:S:205:GLN:NE2	1:S:368:TRP:HE1	1.98	0.61
1:Z:167:PHE:HB2	1:Z:238:HIS:HB3	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:90:LEU:CD1	1:4:342:VAL:CG1	2.78	0.61
1:4:205:GLN:NE2	1:4:368:TRP:HE1	1.97	0.61
1:g:205:GLN:NE2	1:g:368:TRP:HE1	1.98	0.61
1:h:90:LEU:CD1	1:h:342:VAL:CG1	2.78	0.61
1:q:167:PHE:HB2	1:q:238:HIS:HB3	1.83	0.61
1:v:167:PHE:HB2	1:v:238:HIS:HB3	1.83	0.61
1:w:217:PRO:HD3	1:x:402:ASN:HB2	1.82	0.61
1:Q:167:PHE:HB2	1:Q:238:HIS:HB3	1.83	0.61
1:l:205:GLN:NE2	1:l:368:TRP:HE1	1.98	0.61
1:r:205:GLN:NE2	1:r:368:TRP:HE1	1.98	0.61
1:A:445:CYS:N	1:A:448:ASN:OD1	2.21	0.60
1:C:217:PRO:HD3	1:M:402:ASN:HB2	1.82	0.60
1:J:167:PHE:HB2	1:J:238:HIS:HB3	1.83	0.60
1:Q:205:GLN:NE2	1:Q:368:TRP:HE1	1.98	0.60
1:T:402:ASN:HB2	1:4:217:PRO:HD3	1.82	0.60
1:3:167:PHE:HB2	1:3:238:HIS:HB3	1.83	0.60
1:a:217:PRO:HD3	1:b:402:ASN:HB2	1.82	0.60
1:c:167:PHE:HB2	1:c:238:HIS:HB3	1.83	0.60
1:d:167:PHE:HB2	1:d:238:HIS:HB3	1.83	0.60
1:g:402:ASN:HB2	1:h:217:PRO:HD3	1.82	0.60
1:i:84:GLN:NE2	1:i:95:PRO:HD2	2.14	0.60
1:p:205:GLN:NE2	1:p:368:TRP:HE1	1.97	0.60
1:D:205:GLN:NE2	1:D:368:TRP:HE1	1.98	0.60
1:P:167:PHE:HB2	1:P:238:HIS:HB3	1.83	0.60
1:R:262:ARG:HE	1:S:227:ASN:HD22	1.49	0.60
1:S:403:LEU:HD21	1:U:223:MET:HE1	1.83	0.60
1:5:167:PHE:HB2	1:5:238:HIS:HB3	1.83	0.60
1:k:262:ARG:HE	1:l:227:ASN:HD22	1.49	0.60
1:o:402:ASN:HB2	1:p:217:PRO:HD3	1.82	0.60
1:t:227:ASN:HD22	1:v:262:ARG:HE	1.49	0.60
1:y:90:LEU:CD1	1:y:342:VAL:CG1	2.78	0.60
1:y:402:ASN:HB2	1:z:217:PRO:HD3	1.82	0.60
1:F:227:ASN:HD22	1:Q:262:ARG:HE	1.49	0.60
1:H:402:ASN:HB2	1:W:217:PRO:HD3	1.82	0.60
1:T:205:GLN:NE2	1:T:368:TRP:HE1	1.97	0.60
1:Y:167:PHE:HB2	1:Y:238:HIS:HB3	1.83	0.60
1:l:403:LEU:HD21	1:m:223:MET:HE1	1.83	0.60
1:s:445:CYS:N	1:s:448:ASN:OD1	2.21	0.60
1:7:445:CYS:N	1:7:448:ASN:OD1	2.21	0.60
1:H:205:GLN:NE2	1:H:368:TRP:HE1	1.97	0.60
1:W:262:ARG:HE	1:Y:227:ASN:HD22	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:217:PRO:HD3	1:5:402:ASN:HB2	1.82	0.60
1:Y:445:CYS:N	1:Y:448:ASN:OD1	2.21	0.60
1:a:167:PHE:HB2	1:a:238:HIS:HB3	1.83	0.60
1:e:205:GLN:NE2	1:e:368:TRP:HE1	1.98	0.60
1:r:262:ARG:HE	1:s:227:ASN:HD22	1.49	0.60
1:w:227:ASN:HD22	1:x:262:ARG:HE	1.49	0.60
1:y:205:GLN:NE2	1:y:368:TRP:HE1	1.97	0.60
1:z:262:ARG:HE	1:7:227:ASN:HD22	1.49	0.60
1:N:402:ASN:HB2	1:P:217:PRO:HD3	1.82	0.60
1:S:262:ARG:HE	1:U:227:ASN:HD22	1.49	0.60
1:U:167:PHE:HB2	1:U:238:HIS:HB3	1.83	0.60
1:3:402:ASN:HB2	1:i:217:PRO:HD3	1.82	0.60
1:m:167:PHE:HB2	1:m:238:HIS:HB3	1.83	0.60
1:u:402:ASN:HB2	1:v:217:PRO:HD3	1.82	0.60
1:7:167:PHE:HB2	1:7:238:HIS:HB3	1.83	0.60
1:A:167:PHE:HB2	1:A:238:HIS:HB3	1.83	0.60
1:C:167:PHE:HB2	1:C:238:HIS:HB3	1.83	0.60
1:T:167:PHE:HB2	1:T:238:HIS:HB3	1.83	0.60
1:V:262:ARG:HE	1:5:227:ASN:HD22	1.49	0.60
1:3:227:ASN:HD22	1:j:262:ARG:HE	1.50	0.60
1:g:167:PHE:HB2	1:g:238:HIS:HB3	1.83	0.60
1:i:402:ASN:HB2	1:j:217:PRO:HD3	1.82	0.60
1:l:262:ARG:HE	1:m:227:ASN:HD22	1.49	0.60
1:n:262:ARG:HE	1:o:227:ASN:HD22	1.49	0.60
1:p:167:PHE:HB2	1:p:238:HIS:HB3	1.83	0.60
1:8:205:GLN:NE2	1:8:368:TRP:HE1	1.98	0.60
1:C:84:GLN:HB3	1:M:299:TYR:CD1	2.37	0.60
1:G:262:ARG:HE	1:I:227:ASN:HD22	1.49	0.60
1:J:90:LEU:CD1	1:J:342:VAL:CG1	2.78	0.60
1:K:262:ARG:HE	1:1:227:ASN:HD22	1.49	0.60
1:V:217:PRO:HD3	1:X:402:ASN:HB2	1.82	0.60
1:V:402:ASN:HB2	1:5:217:PRO:HD3	1.82	0.60
1:3:217:PRO:HD3	1:j:402:ASN:HB2	1.82	0.60
1:a:84:GLN:HB3	1:b:299:TYR:CD1	2.37	0.60
1:b:167:PHE:HB2	1:b:238:HIS:HB3	1.83	0.60
1:c:402:ASN:HB2	1:d:217:PRO:HD3	1.82	0.60
1:t:205:GLN:NE2	1:t:368:TRP:HE1	1.98	0.60
1:F:445:CYS:N	1:F:448:ASN:OD1	2.21	0.60
1:H:167:PHE:HB2	1:H:238:HIS:HB3	1.83	0.60
1:I:167:PHE:HB2	1:I:238:HIS:HB3	1.83	0.60
1:L:205:GLN:NE2	1:L:368:TRP:HE1	1.98	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:167:PHE:HB2	1:M:238:HIS:HB3	1.83	0.60
1:X:90:LEU:CD1	1:X:342:VAL:CG1	2.78	0.60
1:f:167:PHE:HB2	1:f:238:HIS:HB3	1.83	0.60
1:i:90:LEU:CD1	1:i:342:VAL:CG1	2.78	0.60
1:o:167:PHE:HB2	1:o:238:HIS:HB3	1.83	0.60
1:v:90:LEU:CD1	1:v:342:VAL:CG1	2.78	0.60
1:w:84:GLN:HB3	1:x:299:TYR:CD1	2.37	0.60
1:y:167:PHE:HB2	1:y:238:HIS:HB3	1.83	0.60
1:B:167:PHE:HB2	1:B:238:HIS:HB3	1.83	0.60
1:K:299:TYR:CD1	1:1:84:GLN:HB3	2.37	0.60
1:O:167:PHE:HB2	1:O:238:HIS:HB3	1.83	0.60
1:W:167:PHE:HB2	1:W:238:HIS:HB3	1.83	0.60
1:t:167:PHE:HB2	1:t:238:HIS:HB3	1.83	0.60
1:z:299:TYR:CD1	1:7:84:GLN:HB3	2.37	0.60
1:G:167:PHE:HB2	1:G:238:HIS:HB3	1.83	0.60
1:O:84:GLN:HB3	1:h:299:TYR:CD1	2.37	0.60
1:R:227:ASN:HD22	1:U:262:ARG:HE	1.49	0.60
1:W:299:TYR:CD1	1:Y:84:GLN:HB3	2.37	0.60
1:Z:217:PRO:HD3	1:w:402:ASN:HB2	1.82	0.60
1:1:402:ASN:HB2	1:8:217:PRO:HD3	1.82	0.60
1:4:299:TYR:CD1	1:f:84:GLN:HB3	2.37	0.60
1:6:262:ARG:HE	1:b:227:ASN:HD22	1.50	0.60
1:d:299:TYR:CD1	1:e:84:GLN:HB3	2.37	0.60
1:n:167:PHE:HB2	1:n:238:HIS:HB3	1.83	0.60
1:u:167:PHE:HB2	1:u:238:HIS:HB3	1.83	0.60
1:z:167:PHE:HB2	1:z:238:HIS:HB3	1.83	0.60
1:C:227:ASN:HD22	1:M:262:ARG:HE	1.49	0.59
1:D:84:GLN:HB3	1:P:299:TYR:CD1	2.37	0.59
1:J:205:GLN:NE2	1:J:368:TRP:HE1	1.98	0.59
1:R:223:MET:HE1	1:U:403:LEU:HD21	1.84	0.59
1:a:227:ASN:HD22	1:b:262:ARG:HE	1.49	0.59
1:k:223:MET:HE1	1:m:403:LEU:HD21	1.84	0.59
1:t:223:MET:HE1	1:v:403:LEU:HD21	1.83	0.59
1:I:90:LEU:CD1	1:I:342:VAL:CG1	2.78	0.59
1:L:167:PHE:HB2	1:L:238:HIS:HB3	1.83	0.59
1:M:227:ASN:HD22	1:2:262:ARG:HE	1.50	0.59
1:V:299:TYR:CD1	1:5:84:GLN:HB3	2.37	0.59
1:Y:90:LEU:CD1	1:Y:342:VAL:CG1	2.78	0.59
1:Z:205:GLN:NE2	1:Z:368:TRP:HE1	1.98	0.59
1:3:84:GLN:HB3	1:j:299:TYR:CD1	2.37	0.59
1:k:227:ASN:HD22	1:m:262:ARG:HE	1.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:167:PHE:HB2	1:l:238:HIS:HB3	1.83	0.59
1:D:262:ARG:HE	1:N:227:ASN:HD22	1.49	0.59
1:E:90:LEU:CD1	1:E:342:VAL:CG1	2.78	0.59
1:O:299:TYR:CD1	1:g:84:GLN:HB3	2.37	0.59
1:S:167:PHE:HB2	1:S:238:HIS:HB3	1.83	0.59
1:U:90:LEU:HD13	1:U:342:VAL:HG11	1.82	0.59
1:o:262:ARG:HE	1:p:227:ASN:HD22	1.49	0.59
1:t:403:LEU:HD21	1:u:223:MET:HE1	1.84	0.59
1:u:299:TYR:CD1	1:v:84:GLN:HB3	2.37	0.59
1:v:205:GLN:NE2	1:v:368:TRP:HE1	1.98	0.59
1:A:227:ASN:HD22	1:I:262:ARG:HE	1.49	0.59
1:A:262:ARG:HE	1:G:227:ASN:HD22	1.49	0.59
1:E:262:ARG:HE	1:Q:227:ASN:HD22	1.49	0.59
1:H:299:TYR:CD1	1:W:84:GLN:HB3	2.37	0.59
1:K:84:GLN:HB3	1:8:299:TYR:CD1	2.37	0.59
1:K:167:PHE:HB2	1:K:238:HIS:HB3	1.83	0.59
1:L:90:LEU:CD1	1:L:342:VAL:CG1	2.78	0.59
1:R:299:TYR:CD1	1:S:84:GLN:HB3	2.37	0.59
1:T:84:GLN:HB3	1:f:299:TYR:CD1	2.37	0.59
1:6:84:GLN:HB3	1:a:299:TYR:CD1	2.37	0.59
1:m:90:LEU:HD13	1:m:342:VAL:HG11	1.82	0.59
1:t:90:LEU:CD1	1:t:342:VAL:CG1	2.78	0.59
1:x:167:PHE:HB2	1:x:238:HIS:HB3	1.83	0.59
1:7:90:LEU:CD1	1:7:342:VAL:CG1	2.78	0.59
1:B:299:TYR:CD1	1:J:84:GLN:HB3	2.37	0.59
1:C:299:TYR:CD1	1:2:84:GLN:HB3	2.37	0.59
1:V:84:GLN:HB3	1:X:299:TYR:CD1	2.37	0.59
1:Z:299:TYR:CD1	1:x:84:GLN:HB3	2.37	0.59
1:1:347:SER:OG	1:1:349:ASP:OD1	2.21	0.59
1:6:299:TYR:CD1	1:b:84:GLN:HB3	2.37	0.59
1:c:84:GLN:HB3	1:e:299:TYR:CD1	2.37	0.59
1:k:299:TYR:CD1	1:l:84:GLN:HB3	2.37	0.59
1:o:90:LEU:CD1	1:o:342:VAL:CG1	2.78	0.59
1:q:90:LEU:CD1	1:q:342:VAL:CG1	2.78	0.59
1:y:299:TYR:CD1	1:z:84:GLN:HB3	2.37	0.59
1:D:90:LEU:CD1	1:D:342:VAL:CG1	2.78	0.59
1:D:299:TYR:CD1	1:N:84:GLN:HB3	2.37	0.59
1:H:436:ASN:HD21	1:W:465:SER:HA	1.68	0.59
1:K:347:SER:OG	1:K:349:ASP:OD1	2.21	0.59
1:M:84:GLN:HB3	1:2:299:TYR:CD1	2.38	0.59
1:N:299:TYR:CD1	1:P:84:GLN:HB3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:299:TYR:CD1	1:4:84:GLN:HB3	2.37	0.59
1:a:90:LEU:HD13	1:a:342:VAL:HG11	1.82	0.59
1:c:299:TYR:CD1	1:d:84:GLN:HB3	2.37	0.59
1:e:90:LEU:CD1	1:e:342:VAL:CG1	2.78	0.59
1:g:299:TYR:CD1	1:h:84:GLN:HB3	2.37	0.59
1:i:299:TYR:CD1	1:j:84:GLN:HB3	2.37	0.59
1:k:167:PHE:HB2	1:k:238:HIS:HB3	1.83	0.59
1:l:347:SER:OG	1:l:349:ASP:OD1	2.21	0.59
1:n:227:ASN:HD22	1:p:262:ARG:HE	1.50	0.59
1:r:299:TYR:CD1	1:s:84:GLN:HB3	2.37	0.59
1:s:347:SER:OG	1:s:349:ASP:OD1	2.21	0.59
1:w:347:SER:OG	1:w:349:ASP:OD1	2.21	0.59
1:x:347:SER:OG	1:x:349:ASP:OD1	2.21	0.59
1:A:299:TYR:CD1	1:G:84:GLN:HB3	2.37	0.59
1:B:223:MET:HE1	1:L:403:LEU:HD21	1.85	0.59
1:E:347:SER:OG	1:E:349:ASP:OD1	2.21	0.59
1:F:84:GLN:HB3	1:Q:299:TYR:CD1	2.37	0.59
1:F:347:SER:OG	1:F:349:ASP:OD1	2.21	0.59
1:M:347:SER:OG	1:M:349:ASP:OD1	2.21	0.59
1:R:436:ASN:HD21	1:S:465:SER:HA	1.68	0.59
1:S:299:TYR:CD1	1:U:84:GLN:HB3	2.38	0.59
1:S:347:SER:OG	1:S:349:ASP:OD1	2.21	0.59
1:V:347:SER:OG	1:V:349:ASP:OD1	2.21	0.59
1:b:347:SER:OG	1:b:349:ASP:OD1	2.21	0.59
1:c:227:ASN:HD22	1:e:262:ARG:HE	1.49	0.59
1:g:436:ASN:HD21	1:h:465:SER:HA	1.68	0.59
1:j:347:SER:OG	1:j:349:ASP:OD1	2.21	0.59
1:k:436:ASN:HD21	1:l:465:SER:HA	1.68	0.59
1:l:299:TYR:CD1	1:m:84:GLN:HB3	2.38	0.59
1:q:227:ASN:HD22	1:s:262:ARG:HE	1.50	0.59
1:q:262:ARG:HE	1:r:227:ASN:HD22	1.49	0.59
1:q:347:SER:OG	1:q:349:ASP:OD1	2.21	0.59
1:r:347:SER:OG	1:r:349:ASP:OD1	2.21	0.59
1:x:90:LEU:HD13	1:x:342:VAL:HG11	1.82	0.59
1:y:84:GLN:HB3	1:7:299:TYR:CD1	2.37	0.59
1:y:436:ASN:HD21	1:z:465:SER:HA	1.68	0.59
1:B:347:SER:OG	1:B:349:ASP:OD1	2.21	0.59
1:C:90:LEU:HD13	1:C:342:VAL:HG11	1.82	0.59
1:C:91:GLN:OE1	1:C:91:GLN:N	2.36	0.59
1:E:227:ASN:HD22	1:F:262:ARG:HE	1.50	0.59
1:E:299:TYR:CD1	1:Q:84:GLN:HB3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:84:GLN:HB3	1:Y:299:TYR:CD1	2.37	0.59
1:P:347:SER:OG	1:P:349:ASP:OD1	2.21	0.59
1:Q:347:SER:OG	1:Q:349:ASP:OD1	2.21	0.59
1:R:167:PHE:HB2	1:R:238:HIS:HB3	1.83	0.59
1:R:347:SER:OG	1:R:349:ASP:OD1	2.21	0.59
1:T:436:ASN:HD21	1:4:465:SER:HA	1.68	0.59
1:Y:347:SER:OG	1:Y:349:ASP:OD1	2.21	0.59
1:Z:84:GLN:HB3	1:w:299:TYR:CD1	2.37	0.59
1:Z:347:SER:OG	1:Z:349:ASP:OD1	2.21	0.59
1:1:299:TYR:CD1	1:8:84:GLN:HB3	2.38	0.59
1:3:91:GLN:OE1	1:3:91:GLN:N	2.36	0.59
1:4:403:LEU:HD21	1:f:223:MET:HE1	1.85	0.59
1:5:91:GLN:OE1	1:5:91:GLN:N	2.36	0.59
1:c:347:SER:OG	1:c:349:ASP:OD1	2.21	0.59
1:d:347:SER:OG	1:d:349:ASP:OD1	2.21	0.59
1:n:299:TYR:CD1	1:o:84:GLN:HB3	2.37	0.59
1:q:436:ASN:HD21	1:r:465:SER:HA	1.68	0.59
1:7:347:SER:OG	1:7:349:ASP:OD1	2.21	0.59
1:8:347:SER:OG	1:8:349:ASP:OD1	2.21	0.59
1:D:227:ASN:HD22	1:P:262:ARG:HE	1.49	0.59
1:E:436:ASN:HD21	1:Q:465:SER:HA	1.68	0.59
1:K:90:LEU:HD13	1:K:342:VAL:HG11	1.82	0.59
1:N:347:SER:OG	1:N:349:ASP:OD1	2.21	0.59
1:N:403:LEU:HD21	1:P:223:MET:HE1	1.85	0.59
1:O:91:GLN:N	1:O:91:GLN:OE1	2.36	0.59
1:O:223:MET:HE1	1:h:403:LEU:HD21	1.85	0.59
1:O:227:ASN:HD22	1:h:262:ARG:HE	1.50	0.59
1:R:91:GLN:N	1:R:91:GLN:OE1	2.36	0.59
1:V:436:ASN:HD21	1:5:465:SER:HA	1.68	0.59
1:X:84:GLN:HB3	1:5:299:TYR:CD1	2.38	0.59
1:X:91:GLN:OE1	1:X:91:GLN:N	2.36	0.59
1:Z:403:LEU:HD21	1:x:223:MET:HE1	1.85	0.59
1:Z:465:SER:HA	1:w:436:ASN:HD21	1.68	0.59
1:1:436:ASN:HD21	1:8:465:SER:HA	1.68	0.59
1:3:299:TYR:CD1	1:i:84:GLN:HB3	2.38	0.59
1:3:465:SER:HA	1:j:436:ASN:HD21	1.68	0.59
1:4:262:ARG:HE	1:f:227:ASN:HD22	1.50	0.59
1:5:90:LEU:CD1	1:5:342:VAL:CG1	2.78	0.59
1:6:227:ASN:HD22	1:a:262:ARG:HE	1.50	0.59
1:c:403:LEU:HD21	1:d:223:MET:HE1	1.85	0.59
1:f:91:GLN:OE1	1:f:91:GLN:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:91:GLN:OE1	1:i:91:GLN:N	2.36	0.59
1:k:347:SER:OG	1:k:349:ASP:OD1	2.21	0.59
1:q:299:TYR:CD1	1:r:84:GLN:HB3	2.37	0.59
1:u:347:SER:OG	1:u:349:ASP:OD1	2.21	0.59
1:w:465:SER:HA	1:x:436:ASN:HD21	1.68	0.59
1:C:262:ARG:HE	1:2:227:ASN:HD22	1.49	0.59
1:E:91:GLN:OE1	1:E:91:GLN:N	2.36	0.59
1:G:299:TYR:CD1	1:I:84:GLN:HB3	2.37	0.59
1:K:223:MET:HE1	1:8:403:LEU:HD21	1.85	0.59
1:K:227:ASN:HD22	1:8:262:ARG:HE	1.49	0.59
1:K:436:ASN:HD21	1:1:465:SER:HA	1.68	0.59
1:O:465:SER:HA	1:h:436:ASN:HD21	1.68	0.59
1:T:347:SER:OG	1:T:349:ASP:OD1	2.21	0.59
1:4:436:ASN:HD21	1:f:465:SER:HA	1.68	0.59
1:a:91:GLN:OE1	1:a:91:GLN:N	2.36	0.59
1:f:90:LEU:CD1	1:f:342:VAL:CG1	2.78	0.59
1:k:91:GLN:OE1	1:k:91:GLN:N	2.36	0.59
1:q:91:GLN:OE1	1:q:91:GLN:N	2.36	0.59
1:y:91:GLN:OE1	1:y:91:GLN:N	2.36	0.59
1:A:91:GLN:OE1	1:A:91:GLN:N	2.36	0.58
1:A:347:SER:OG	1:A:349:ASP:OD1	2.21	0.58
1:H:91:GLN:OE1	1:H:91:GLN:N	2.36	0.58
1:H:403:LEU:HD21	1:W:223:MET:HE1	1.85	0.58
1:I:91:GLN:OE1	1:I:91:GLN:N	2.36	0.58
1:P:91:GLN:OE1	1:P:91:GLN:N	2.36	0.58
1:T:403:LEU:HD21	1:4:223:MET:HE1	1.85	0.58
1:V:403:LEU:HD21	1:5:223:MET:HE1	1.85	0.58
1:1:90:LEU:HD13	1:1:342:VAL:HG11	1.82	0.58
1:2:167:PHE:HB2	1:2:238:HIS:HB3	1.83	0.58
1:3:223:MET:HE1	1:j:403:LEU:HD21	1.85	0.58
1:a:223:MET:HE1	1:b:403:LEU:HD21	1.85	0.58
1:d:262:ARG:HE	1:e:227:ASN:HD22	1.49	0.58
1:f:104:ALA:HB1	1:f:196:LEU:HB3	1.85	0.58
1:g:347:SER:OG	1:g:349:ASP:OD1	2.21	0.58
1:n:84:GLN:HB3	1:p:299:TYR:CD1	2.37	0.58
1:p:347:SER:OG	1:p:349:ASP:OD1	2.21	0.58
1:t:91:GLN:OE1	1:t:91:GLN:N	2.36	0.58
1:z:104:ALA:HB1	1:z:196:LEU:HB3	1.85	0.58
1:B:262:ARG:HE	1:J:227:ASN:HD22	1.49	0.58
1:C:223:MET:HE1	1:M:403:LEU:HD21	1.85	0.58
1:D:91:GLN:N	1:D:91:GLN:OE1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:347:SER:OG	1:G:349:ASP:OD1	2.21	0.58
1:O:90:LEU:CD1	1:O:342:VAL:CG1	2.78	0.58
1:O:104:ALA:HB1	1:O:196:LEU:HB3	1.85	0.58
1:O:262:ARG:HE	1:g:227:ASN:HD22	1.49	0.58
1:T:227:ASN:HD22	1:f:262:ARG:HE	1.49	0.58
1:U:91:GLN:OE1	1:U:91:GLN:N	2.36	0.58
1:W:104:ALA:HB1	1:W:196:LEU:HB3	1.85	0.58
1:W:403:LEU:HD21	1:Y:223:MET:HE1	1.85	0.58
1:1:91:GLN:OE1	1:1:91:GLN:N	2.36	0.58
1:3:90:LEU:CD1	1:3:342:VAL:CG1	2.78	0.58
1:3:347:SER:OG	1:3:349:ASP:OD1	2.21	0.58
1:5:347:SER:OG	1:5:349:ASP:OD1	2.21	0.58
1:e:91:GLN:OE1	1:e:91:GLN:N	2.36	0.58
1:g:403:LEU:HD21	1:h:223:MET:HE1	1.85	0.58
1:l:90:LEU:CD1	1:l:342:VAL:CG1	2.78	0.58
1:m:91:GLN:N	1:m:91:GLN:OE1	2.36	0.58
1:n:347:SER:OG	1:n:349:ASP:OD1	2.21	0.58
1:o:91:GLN:N	1:o:91:GLN:OE1	2.36	0.58
1:p:91:GLN:OE1	1:p:91:GLN:N	2.36	0.58
1:q:84:GLN:HB3	1:s:299:TYR:CD1	2.37	0.58
1:t:262:ARG:HE	1:u:227:ASN:HD22	1.49	0.58
1:y:403:LEU:HD21	1:z:223:MET:HE1	1.85	0.58
1:8:91:GLN:OE1	1:8:91:GLN:N	2.36	0.58
1:A:84:GLN:HB3	1:I:299:TYR:CD1	2.37	0.58
1:A:223:MET:HE1	1:I:403:LEU:HD21	1.85	0.58
1:A:403:LEU:HD21	1:G:223:MET:HE1	1.85	0.58
1:B:104:ALA:HB1	1:B:196:LEU:HB3	1.85	0.58
1:H:465:SER:HA	1:Y:436:ASN:HD21	1.68	0.58
1:Q:130:TRP:HB3	1:Q:514:VAL:HG23	1.86	0.58
1:Z:91:GLN:N	1:Z:91:GLN:OE1	2.36	0.58
1:Z:130:TRP:HB3	1:Z:514:VAL:HG23	1.86	0.58
1:3:90:LEU:HD13	1:3:342:VAL:HG11	1.82	0.58
1:d:90:LEU:HD13	1:d:342:VAL:HG11	1.82	0.58
1:h:104:ALA:HB1	1:h:196:LEU:HB3	1.85	0.58
1:k:84:GLN:HB3	1:m:299:TYR:CD1	2.38	0.58
1:n:223:MET:HE1	1:p:403:LEU:HD21	1.85	0.58
1:o:403:LEU:HD21	1:p:223:MET:HE1	1.85	0.58
1:r:130:TRP:HB3	1:r:514:VAL:HG23	1.86	0.58
1:t:84:GLN:HB3	1:v:299:TYR:CD1	2.38	0.58
1:u:104:ALA:HB1	1:u:196:LEU:HB3	1.85	0.58
1:u:262:ARG:HE	1:v:227:ASN:HD22	1.49	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:91:GLN:OE1	1:w:91:GLN:N	2.36	0.58
1:z:403:LEU:HD21	1:7:223:MET:HE1	1.85	0.58
1:E:84:GLN:HB3	1:F:299:TYR:CD1	2.37	0.58
1:L:91:GLN:N	1:L:91:GLN:OE1	2.36	0.58
1:P:130:TRP:HB3	1:P:514:VAL:HG23	1.86	0.58
1:Q:104:ALA:HB1	1:Q:196:LEU:HB3	1.85	0.58
1:S:90:LEU:CD1	1:S:342:VAL:CG1	2.78	0.58
1:T:262:ARG:HE	1:4:227:ASN:HD22	1.49	0.58
1:Z:262:ARG:HE	1:x:227:ASN:HD22	1.49	0.58
1:3:262:ARG:HE	1:i:227:ASN:HD22	1.50	0.58
1:4:104:ALA:HB1	1:4:196:LEU:HB3	1.85	0.58
1:d:130:TRP:HB3	1:d:514:VAL:HG23	1.86	0.58
1:n:90:LEU:CD1	1:n:342:VAL:CG1	2.78	0.58
1:8:130:TRP:HB3	1:8:514:VAL:HG23	1.86	0.58
1:B:227:ASN:HD22	1:L:262:ARG:HE	1.49	0.58
1:B:403:LEU:HD21	1:J:223:MET:HE1	1.85	0.58
1:I:347:SER:OG	1:I:349:ASP:OD1	2.21	0.58
1:P:90:LEU:HD13	1:P:342:VAL:HG11	1.82	0.58
1:R:84:GLN:HB3	1:U:299:TYR:CD1	2.39	0.58
1:W:347:SER:OG	1:W:349:ASP:OD1	2.21	0.58
1:X:347:SER:OG	1:X:349:ASP:OD1	2.21	0.58
1:5:130:TRP:HB3	1:5:514:VAL:HG23	1.86	0.58
1:6:167:PHE:HB2	1:6:238:HIS:HB3	1.83	0.58
1:6:465:SER:HA	1:a:436:ASN:HD21	1.68	0.58
1:a:347:SER:OG	1:a:349:ASP:OD1	2.21	0.58
1:g:262:ARG:HE	1:h:227:ASN:HD22	1.49	0.58
1:i:347:SER:OG	1:i:349:ASP:OD1	2.21	0.58
1:q:403:LEU:HD21	1:r:223:MET:HE1	1.85	0.58
1:y:465:SER:HA	1:7:436:ASN:HD21	1.68	0.58
1:z:347:SER:OG	1:z:349:ASP:OD1	2.21	0.58
1:B:130:TRP:HB3	1:B:514:VAL:HG23	1.86	0.58
1:C:347:SER:OG	1:C:349:ASP:OD1	2.21	0.58
1:D:223:MET:HE1	1:P:403:LEU:HD21	1.85	0.58
1:E:403:LEU:HD21	1:Q:223:MET:HE1	1.85	0.58
1:E:465:SER:HA	1:F:436:ASN:HD21	1.68	0.58
1:F:223:MET:HE1	1:Q:403:LEU:HD21	1.85	0.58
1:G:90:LEU:HD13	1:G:342:VAL:HG11	1.82	0.58
1:G:90:LEU:CD1	1:G:342:VAL:CG1	2.78	0.58
1:H:227:ASN:HD22	1:Y:262:ARG:HE	1.49	0.58
1:J:91:GLN:OE1	1:J:91:GLN:N	2.36	0.58
1:L:347:SER:OG	1:L:349:ASP:OD1	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:347:SER:OG	1:2:349:ASP:OD1	2.21	0.58
1:3:130:TRP:HB3	1:3:514:VAL:HG23	1.86	0.58
1:5:90:LEU:HD13	1:5:342:VAL:HG11	1.82	0.58
1:6:347:SER:OG	1:6:349:ASP:OD1	2.21	0.58
1:k:465:SER:HA	1:m:436:ASN:HD21	1.69	0.58
1:l:130:TRP:HB3	1:l:514:VAL:HG23	1.86	0.58
1:p:130:TRP:HB3	1:p:514:VAL:HG23	1.86	0.58
1:q:465:SER:HA	1:s:436:ASN:HD21	1.68	0.58
1:r:104:ALA:HB1	1:r:196:LEU:HB3	1.85	0.58
1:t:347:SER:OG	1:t:349:ASP:OD1	2.21	0.58
1:y:262:ARG:HE	1:z:227:ASN:HD22	1.49	0.58
1:B:91:GLN:OE1	1:B:91:GLN:N	2.36	0.58
1:C:130:TRP:HB3	1:C:514:VAL:HG23	1.86	0.58
1:D:130:TRP:HB3	1:D:514:VAL:HG23	1.86	0.58
1:G:104:ALA:HB1	1:G:196:LEU:HB3	1.85	0.58
1:G:130:TRP:HB3	1:G:514:VAL:HG23	1.86	0.58
1:R:465:SER:HA	1:U:436:ASN:HD21	1.69	0.58
1:S:130:TRP:HB3	1:S:514:VAL:HG23	1.86	0.58
1:Y:130:TRP:HB3	1:Y:514:VAL:HG23	1.86	0.58
1:d:403:LEU:HD21	1:e:223:MET:HE1	1.85	0.58
1:e:130:TRP:HB3	1:e:514:VAL:HG23	1.86	0.58
1:l:91:GLN:OE1	1:l:91:GLN:N	2.36	0.58
1:n:465:SER:HA	1:p:436:ASN:HD21	1.68	0.58
1:o:104:ALA:HB1	1:o:196:LEU:HB3	1.85	0.58
1:o:347:SER:OG	1:o:349:ASP:OD1	2.21	0.58
1:r:91:GLN:N	1:r:91:GLN:OE1	2.36	0.58
1:r:403:LEU:HD21	1:s:223:MET:HE1	1.85	0.58
1:r:436:ASN:HD21	1:s:465:SER:HA	1.68	0.58
1:u:91:GLN:N	1:u:91:GLN:OE1	2.36	0.58
1:u:130:TRP:HB3	1:u:514:VAL:HG23	1.86	0.58
1:v:91:GLN:OE1	1:v:91:GLN:N	2.36	0.58
1:A:130:TRP:HB3	1:A:514:VAL:HG23	1.86	0.58
1:A:465:SER:HA	1:I:436:ASN:HD21	1.68	0.58
1:I:104:ALA:HB1	1:I:196:LEU:HB3	1.85	0.58
1:N:436:ASN:HD21	1:P:465:SER:HA	1.68	0.58
1:O:130:TRP:HB3	1:O:514:VAL:HG23	1.86	0.58
1:S:90:LEU:HD13	1:S:342:VAL:HG11	1.82	0.58
1:S:91:GLN:OE1	1:S:91:GLN:N	2.36	0.58
1:W:130:TRP:HB3	1:W:514:VAL:HG23	1.86	0.58
1:X:227:ASN:HD22	1:5:262:ARG:HE	1.50	0.58
1:Y:91:GLN:OE1	1:Y:91:GLN:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:227:ASN:HD22	1:w:262:ARG:HE	1.50	0.58
1:4:91:GLN:N	1:4:91:GLN:OE1	2.36	0.58
1:c:465:SER:HA	1:e:436:ASN:HD21	1.68	0.58
1:n:130:TRP:HB3	1:n:514:VAL:HG23	1.86	0.58
1:o:299:TYR:CD1	1:p:84:GLN:HB3	2.37	0.58
1:o:436:ASN:HD21	1:p:465:SER:HA	1.68	0.58
1:x:91:GLN:OE1	1:x:91:GLN:N	2.36	0.58
1:y:227:ASN:HD22	1:7:262:ARG:HE	1.49	0.58
1:z:130:TRP:HB3	1:z:514:VAL:HG23	1.86	0.58
1:7:130:TRP:HB3	1:7:514:VAL:HG23	1.86	0.58
1:C:436:ASN:HD21	1:2:465:SER:HA	1.68	0.58
1:D:436:ASN:HD21	1:N:465:SER:HA	1.68	0.58
1:F:465:SER:HA	1:Q:436:ASN:HD21	1.68	0.58
1:H:262:ARG:HE	1:W:227:ASN:HD22	1.49	0.58
1:J:347:SER:OG	1:J:349:ASP:OD1	2.21	0.58
1:K:91:GLN:OE1	1:K:91:GLN:N	2.36	0.58
1:M:90:LEU:HD13	1:M:342:VAL:HG11	1.82	0.58
1:M:465:SER:HA	1:2:436:ASN:HD21	1.68	0.58
1:N:262:ARG:HE	1:P:227:ASN:HD22	1.49	0.58
1:Q:91:GLN:OE1	1:Q:91:GLN:N	2.36	0.58
1:V:227:ASN:HD22	1:X:262:ARG:HE	1.49	0.58
1:V:465:SER:HA	1:X:436:ASN:HD21	1.68	0.58
1:X:465:SER:HA	1:5:436:ASN:HD21	1.68	0.58
1:1:262:ARG:HE	1:8:227:ASN:HD22	1.50	0.58
1:a:130:TRP:HB3	1:a:514:VAL:HG23	1.86	0.58
1:c:91:GLN:OE1	1:c:91:GLN:N	2.36	0.58
1:h:91:GLN:OE1	1:h:91:GLN:N	2.36	0.58
1:n:90:LEU:HD13	1:n:342:VAL:HG11	1.82	0.58
1:n:104:ALA:HB1	1:n:196:LEU:HB3	1.85	0.58
1:w:223:MET:HE1	1:x:403:LEU:HD21	1.85	0.58
1:z:436:ASN:HD21	1:7:465:SER:HA	1.68	0.58
1:7:91:GLN:N	1:7:91:GLN:OE1	2.36	0.58
1:A:104:ALA:HB1	1:A:196:LEU:HB3	1.85	0.58
1:A:436:ASN:HD21	1:G:465:SER:HA	1.68	0.58
1:D:104:ALA:HB1	1:D:196:LEU:HB3	1.85	0.58
1:F:130:TRP:HB3	1:F:514:VAL:HG23	1.86	0.58
1:G:436:ASN:HD21	1:I:465:SER:HA	1.68	0.58
1:K:403:LEU:HD21	1:1:223:MET:HE1	1.85	0.58
1:T:465:SER:HA	1:f:436:ASN:HD21	1.68	0.58
1:W:436:ASN:HD21	1:Y:465:SER:HA	1.68	0.58
1:X:223:MET:HE1	1:5:403:LEU:HD21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:347:SER:OG	1:4:349:ASP:OD1	2.21	0.58
1:6:436:ASN:HD21	1:b:465:SER:HA	1.68	0.58
1:b:90:LEU:HD13	1:b:342:VAL:HG11	1.82	0.58
1:c:262:ARG:HE	1:d:227:ASN:HD22	1.49	0.58
1:c:436:ASN:HD21	1:d:465:SER:HA	1.68	0.58
1:f:130:TRP:HB3	1:f:514:VAL:HG23	1.86	0.58
1:f:347:SER:OG	1:f:349:ASP:OD1	2.21	0.58
1:i:262:ARG:HE	1:j:227:ASN:HD22	1.49	0.58
1:i:436:ASN:HD21	1:j:465:SER:HA	1.68	0.58
1:l:104:ALA:HB1	1:l:196:LEU:HB3	1.85	0.58
1:n:436:ASN:HD21	1:o:465:SER:HA	1.68	0.58
1:p:104:ALA:HB1	1:p:196:LEU:HB3	1.85	0.58
1:s:130:TRP:HB3	1:s:514:VAL:HG23	1.86	0.58
1:t:465:SER:HA	1:v:436:ASN:HD21	1.68	0.58
1:v:347:SER:OG	1:v:349:ASP:OD1	2.21	0.58
1:y:347:SER:OG	1:y:349:ASP:OD1	2.21	0.58
1:H:347:SER:OG	1:H:349:ASP:OD1	2.21	0.57
1:M:91:GLN:OE1	1:M:91:GLN:N	2.36	0.57
1:M:104:ALA:HB1	1:M:196:LEU:HB3	1.85	0.57
1:N:91:GLN:OE1	1:N:91:GLN:N	2.36	0.57
1:O:347:SER:OG	1:O:349:ASP:OD1	2.21	0.57
1:S:104:ALA:HB1	1:S:196:LEU:HB3	1.85	0.57
1:V:130:TRP:HB3	1:V:514:VAL:HG23	1.86	0.57
1:Y:104:ALA:HB1	1:Y:196:LEU:HB3	1.85	0.57
1:1:130:TRP:HB3	1:1:514:VAL:HG23	1.86	0.57
1:3:436:ASN:HD21	1:i:465:SER:HA	1.68	0.57
1:b:104:ALA:HB1	1:b:196:LEU:HB3	1.85	0.57
1:b:130:TRP:HB3	1:b:514:VAL:HG23	1.86	0.57
1:c:104:ALA:HB1	1:c:196:LEU:HB3	1.85	0.57
1:d:104:ALA:HB1	1:d:196:LEU:HB3	1.85	0.57
1:e:104:ALA:HB1	1:e:196:LEU:HB3	1.85	0.57
1:h:347:SER:OG	1:h:349:ASP:OD1	2.21	0.57
1:l:90:LEU:HD13	1:l:342:VAL:HG11	1.82	0.57
1:u:403:LEU:HD21	1:v:223:MET:HE1	1.85	0.57
1:7:104:ALA:HB1	1:7:196:LEU:HB3	1.85	0.57
1:B:465:SER:HA	1:L:436:ASN:HD21	1.69	0.57
1:K:130:TRP:HB3	1:K:514:VAL:HG23	1.86	0.57
1:M:130:TRP:HB3	1:M:514:VAL:HG23	1.86	0.57
1:N:104:ALA:HB1	1:N:196:LEU:HB3	1.85	0.57
1:O:403:LEU:HD21	1:g:223:MET:HE1	1.85	0.57
1:O:436:ASN:HD21	1:g:465:SER:HA	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:104:ALA:HB1	1:P:196:LEU:HB3	1.85	0.57
1:T:223:MET:HE1	1:f:403:LEU:HD21	1.85	0.57
1:2:91:GLN:OE1	1:2:91:GLN:N	2.36	0.57
1:3:104:ALA:HB1	1:3:196:LEU:HB3	1.85	0.57
1:3:403:LEU:HD21	1:i:223:MET:HE1	1.85	0.57
1:5:104:ALA:HB1	1:5:196:LEU:HB3	1.85	0.57
1:6:91:GLN:OE1	1:6:91:GLN:N	2.36	0.57
1:b:91:GLN:N	1:b:91:GLN:OE1	2.36	0.57
1:j:130:TRP:HB3	1:j:514:VAL:HG23	1.86	0.57
1:n:403:LEU:HD21	1:o:223:MET:HE1	1.85	0.57
1:s:91:GLN:OE1	1:s:91:GLN:N	2.36	0.57
1:u:436:ASN:HD21	1:v:465:SER:HA	1.68	0.57
1:y:130:TRP:HB3	1:y:514:VAL:HG23	1.86	0.57
1:C:104:ALA:HB1	1:C:196:LEU:HB3	1.85	0.57
1:D:465:SER:HA	1:P:436:ASN:HD21	1.68	0.57
1:E:223:MET:HE1	1:F:403:LEU:HD21	1.85	0.57
1:G:403:LEU:HD21	1:I:223:MET:HE1	1.85	0.57
1:H:130:TRP:HB3	1:H:514:VAL:HG23	1.86	0.57
1:H:223:MET:HE1	1:Y:403:LEU:HD21	1.85	0.57
1:R:104:ALA:HB1	1:R:196:LEU:HB3	1.85	0.57
1:U:104:ALA:HB1	1:U:196:LEU:HB3	1.85	0.57
1:V:91:GLN:OE1	1:V:91:GLN:N	2.36	0.57
1:e:347:SER:OG	1:e:349:ASP:OD1	2.21	0.57
1:m:104:ALA:HB1	1:m:196:LEU:HB3	1.85	0.57
1:m:347:SER:OG	1:m:349:ASP:OD1	2.21	0.57
1:n:91:GLN:OE1	1:n:91:GLN:N	2.36	0.57
1:q:223:MET:HE1	1:s:403:LEU:HD21	1.85	0.57
1:w:130:TRP:HB3	1:w:514:VAL:HG23	1.86	0.57
1:D:347:SER:OG	1:D:349:ASP:OD1	2.21	0.57
1:E:104:ALA:HB1	1:E:196:LEU:HB3	1.85	0.57
1:F:91:GLN:OE1	1:F:91:GLN:N	2.36	0.57
1:M:223:MET:HE1	1:2:403:LEU:HD21	1.85	0.57
1:U:347:SER:OG	1:U:349:ASP:OD1	2.21	0.57
1:W:91:GLN:N	1:W:91:GLN:OE1	2.36	0.57
1:a:104:ALA:HB1	1:a:196:LEU:HB3	1.85	0.57
1:d:436:ASN:HD21	1:e:465:SER:HA	1.68	0.57
1:j:91:GLN:N	1:j:91:GLN:OE1	2.36	0.57
1:k:104:ALA:HB1	1:k:196:LEU:HB3	1.85	0.57
1:q:104:ALA:HB1	1:q:196:LEU:HB3	1.85	0.57
1:t:104:ALA:HB1	1:t:196:LEU:HB3	1.85	0.57
1:t:436:ASN:HD21	1:u:465:SER:HA	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:130:TRP:HB3	1:x:514:VAL:HG23	1.86	0.57
1:y:223:MET:HE1	1:7:403:LEU:HD21	1.85	0.57
1:B:84:GLN:HB3	1:L:299:TYR:CD1	2.38	0.57
1:C:403:LEU:HD21	1:2:223:MET:HE1	1.85	0.57
1:C:465:SER:HA	1:M:436:ASN:HD21	1.68	0.57
1:G:91:GLN:N	1:G:91:GLN:OE1	2.36	0.57
1:L:104:ALA:HB1	1:L:196:LEU:HB3	1.85	0.57
1:V:90:LEU:CD1	1:V:342:VAL:CG1	2.78	0.57
1:Z:436:ASN:HD21	1:x:465:SER:HA	1.68	0.57
1:6:223:MET:HE1	1:a:403:LEU:HD21	1.85	0.57
1:6:403:LEU:HD21	1:b:223:MET:HE1	1.85	0.57
1:a:465:SER:HA	1:b:436:ASN:HD21	1.68	0.57
1:j:90:LEU:CD1	1:j:342:VAL:CG1	2.78	0.57
1:z:91:GLN:N	1:z:91:GLN:OE1	2.36	0.57
1:Z:104:ALA:HB1	1:Z:196:LEU:HB3	1.85	0.57
1:t:299:TYR:CD1	1:u:84:GLN:HB3	2.39	0.57
1:8:104:ALA:HB1	1:8:196:LEU:HB3	1.85	0.57
1:J:299:TYR:CD1	1:L:84:GLN:HB3	2.39	0.57
1:T:104:ALA:HB1	1:T:196:LEU:HB3	1.85	0.57
1:X:104:ALA:HB1	1:X:196:LEU:HB3	1.85	0.57
1:d:91:GLN:OE1	1:d:91:GLN:N	2.36	0.57
1:j:104:ALA:HB1	1:j:196:LEU:HB3	1.85	0.57
1:K:465:SER:HA	1:8:436:ASN:HD21	1.68	0.57
1:V:104:ALA:HB1	1:V:196:LEU:HB3	1.85	0.57
1:1:403:LEU:HD21	1:8:223:MET:HE1	1.85	0.57
1:4:130:TRP:HB3	1:4:514:VAL:HG23	1.86	0.57
1:g:104:ALA:HB1	1:g:196:LEU:HB3	1.85	0.57
1:I:130:TRP:HB3	1:I:514:VAL:HG23	1.86	0.57
1:K:104:ALA:HB1	1:K:196:LEU:HB3	1.85	0.57
1:N:130:TRP:HB3	1:N:514:VAL:HG23	1.86	0.57
1:R:130:TRP:HB3	1:R:514:VAL:HG23	1.86	0.57
1:R:403:LEU:HD21	1:S:223:MET:HE1	1.85	0.57
1:1:104:ALA:HB1	1:1:196:LEU:HB3	1.85	0.57
1:g:91:GLN:N	1:g:91:GLN:OE1	2.36	0.57
1:h:130:TRP:HB3	1:h:514:VAL:HG23	1.86	0.57
1:i:104:ALA:HB1	1:i:196:LEU:HB3	1.85	0.57
1:s:104:ALA:HB1	1:s:196:LEU:HB3	1.85	0.57
1:v:104:ALA:HB1	1:v:196:LEU:HB3	1.85	0.57
1:x:104:ALA:HB1	1:x:196:LEU:HB3	1.85	0.57
1:K:143:GLN:NE2	1:L:162:ALA:HA	2.20	0.57
1:R:90:LEU:CD1	1:R:342:VAL:CG1	2.78	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:91:GLN:OE1	1:T:91:GLN:N	2.36	0.57
1:T:143:GLN:NE2	1:U:162:ALA:HA	2.20	0.57
1:V:223:MET:HE1	1:X:403:LEU:HD21	1.85	0.57
1:Z:223:MET:HE1	1:w:403:LEU:HD21	1.85	0.57
1:2:104:ALA:HB1	1:2:196:LEU:HB3	1.85	0.57
1:c:130:TRP:HB3	1:c:514:VAL:HG23	1.86	0.57
1:k:130:TRP:HB3	1:k:514:VAL:HG23	1.86	0.57
1:t:162:ALA:HA	1:x:143:GLN:NE2	2.20	0.57
1:v:130:TRP:HB3	1:v:514:VAL:HG23	1.86	0.57
1:w:104:ALA:HB1	1:w:196:LEU:HB3	1.85	0.57
1:C:117:PRO:HB2	1:L:524:PRO:HD3	1.87	0.56
1:F:104:ALA:HB1	1:F:196:LEU:HB3	1.85	0.56
1:J:104:ALA:HB1	1:J:196:LEU:HB3	1.85	0.56
1:J:130:TRP:HB3	1:J:514:VAL:HG23	1.86	0.56
1:6:104:ALA:HB1	1:6:196:LEU:HB3	1.85	0.56
1:g:143:GLN:NE2	1:m:162:ALA:HA	2.20	0.56
1:o:130:TRP:HB3	1:o:514:VAL:HG23	1.86	0.56
1:D:403:LEU:HD21	1:N:223:MET:HE1	1.85	0.56
1:i:403:LEU:HD21	1:j:223:MET:HE1	1.85	0.56
1:k:403:LEU:HD21	1:l:223:MET:HE1	1.85	0.56
1:l:436:ASN:HD21	1:m:465:SER:HA	1.68	0.56
1:m:130:TRP:HB3	1:m:514:VAL:HG23	1.86	0.56
1:q:130:TRP:HB3	1:q:514:VAL:HG23	1.86	0.56
1:E:130:TRP:HB3	1:E:514:VAL:HG23	1.86	0.56
1:S:436:ASN:HD21	1:U:465:SER:HA	1.68	0.56
1:U:130:TRP:HB3	1:U:514:VAL:HG23	1.86	0.56
1:6:130:TRP:HB3	1:6:514:VAL:HG23	1.86	0.56
1:c:223:MET:HE1	1:e:403:LEU:HD21	1.85	0.56
1:i:130:TRP:HB3	1:i:514:VAL:HG23	1.86	0.56
1:k:90:LEU:CD1	1:k:342:VAL:CG1	2.78	0.56
1:t:130:TRP:HB3	1:t:514:VAL:HG23	1.86	0.56
1:y:104:ALA:HB1	1:y:196:LEU:HB3	1.85	0.56
1:L:130:TRP:HB3	1:L:514:VAL:HG23	1.86	0.56
1:X:130:TRP:HB3	1:X:514:VAL:HG23	1.86	0.56
1:2:130:TRP:HB3	1:2:514:VAL:HG23	1.86	0.56
1:a:117:PRO:HB2	1:t:524:PRO:HD3	1.88	0.56
1:g:130:TRP:HB3	1:g:514:VAL:HG23	1.86	0.56
1:H:104:ALA:HB1	1:H:196:LEU:HB3	1.85	0.56
1:B:436:ASN:HD21	1:J:465:SER:HA	1.69	0.56
1:J:279:ARG:HD2	1:L:181:TRP:CD1	2.40	0.56
1:A:92:ALA:HB3	1:A:342:VAL:HG22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:130:TRP:HB3	1:T:514:VAL:HG23	1.86	0.56
1:p:92:ALA:HB3	1:p:342:VAL:HG22	1.88	0.56
1:w:92:ALA:HB3	1:w:342:VAL:HG22	1.88	0.56
1:D:92:ALA:HB3	1:D:342:VAL:HG22	1.88	0.56
1:J:92:ALA:HB3	1:J:342:VAL:HG22	1.88	0.56
1:J:524:PRO:HD3	1:K:117:PRO:HB2	1.87	0.56
1:l:92:ALA:HB3	1:l:342:VAL:HG22	1.88	0.56
1:a:92:ALA:HB3	1:a:342:VAL:HG22	1.88	0.56
1:e:92:ALA:HB3	1:e:342:VAL:HG22	1.88	0.56
1:n:92:ALA:HB3	1:n:342:VAL:HG22	1.88	0.56
1:C:92:ALA:HB3	1:C:342:VAL:HG22	1.88	0.56
1:G:92:ALA:HB3	1:G:342:VAL:HG22	1.88	0.56
1:H:143:GLN:NE2	1:I:162:ALA:HA	2.21	0.56
1:I:92:ALA:HB3	1:I:342:VAL:HG22	1.88	0.56
1:2:90:LEU:HD13	1:2:342:VAL:HG11	1.82	0.56
1:2:92:ALA:HB3	1:2:342:VAL:HG22	1.88	0.56
1:m:92:ALA:HB3	1:m:342:VAL:HG22	1.88	0.56
1:o:162:ALA:HA	1:y:143:GLN:NE2	2.21	0.56
1:v:92:ALA:HB3	1:v:342:VAL:HG22	1.88	0.56
1:E:92:ALA:HB3	1:E:342:VAL:HG22	1.88	0.56
1:J:436:ASN:HD21	1:L:465:SER:HA	1.70	0.56
1:K:436:ASN:ND2	1:1:465:SER:HA	2.21	0.56
1:U:92:ALA:HB3	1:U:342:VAL:HG22	1.88	0.56
1:X:143:GLN:NE2	1:Y:162:ALA:HA	2.22	0.56
1:5:92:ALA:HB3	1:5:342:VAL:HG22	1.88	0.56
1:i:143:GLN:NE2	1:7:162:ALA:HA	2.21	0.56
1:o:92:ALA:HB3	1:o:342:VAL:HG22	1.88	0.56
1:w:465:SER:HA	1:x:436:ASN:ND2	2.21	0.56
1:M:465:SER:HA	1:2:436:ASN:ND2	2.21	0.55
1:O:436:ASN:ND2	1:g:465:SER:HA	2.22	0.55
1:T:92:ALA:HB3	1:T:342:VAL:HG22	1.88	0.55
1:V:92:ALA:HB3	1:V:342:VAL:HG22	1.88	0.55
1:6:92:ALA:HB3	1:6:342:VAL:HG22	1.88	0.55
1:b:92:ALA:HB3	1:b:342:VAL:HG22	1.88	0.55
1:g:92:ALA:HB3	1:g:342:VAL:HG22	1.88	0.55
1:j:92:ALA:HB3	1:j:342:VAL:HG22	1.88	0.55
1:q:92:ALA:HB3	1:q:342:VAL:HG22	1.88	0.55
1:7:92:ALA:HB3	1:7:342:VAL:HG22	1.88	0.55
1:B:181:TRP:CD1	1:L:279:ARG:HD2	2.41	0.55
1:F:143:GLN:NE2	1:G:162:ALA:HA	2.22	0.55
1:H:465:SER:HA	1:Y:436:ASN:ND2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:143:GLN:NE2	1:Q:162:ALA:HA	2.21	0.55
1:T:465:SER:HA	1:f:436:ASN:ND2	2.22	0.55
1:W:436:ASN:ND2	1:Y:465:SER:HA	2.22	0.55
1:3:92:ALA:HB3	1:3:342:VAL:HG22	1.88	0.55
1:6:90:LEU:HD13	1:6:342:VAL:HG11	1.82	0.55
1:6:436:ASN:ND2	1:b:465:SER:HA	2.21	0.55
1:f:92:ALA:HB3	1:f:342:VAL:HG22	1.88	0.55
1:n:436:ASN:ND2	1:o:465:SER:HA	2.21	0.55
1:p:162:ALA:HA	1:u:143:GLN:NE2	2.21	0.55
1:t:279:ARG:HD2	1:u:181:TRP:CD1	2.41	0.55
1:y:465:SER:HA	1:7:436:ASN:ND2	2.22	0.55
1:z:436:ASN:ND2	1:7:465:SER:HA	2.22	0.55
1:A:162:ALA:HA	1:B:143:GLN:NE2	2.21	0.55
1:B:465:SER:HA	1:L:436:ASN:ND2	2.22	0.55
1:G:436:ASN:ND2	1:I:465:SER:HA	2.22	0.55
1:I:143:GLN:NE2	1:J:162:ALA:HA	2.20	0.55
1:M:92:ALA:HB3	1:M:342:VAL:HG22	1.88	0.55
1:O:92:ALA:HB3	1:O:342:VAL:HG22	1.88	0.55
1:U:524:PRO:HD3	1:V:117:PRO:HB2	1.88	0.55
1:Y:92:ALA:HB3	1:Y:342:VAL:HG22	1.88	0.55
1:d:143:GLN:NE2	1:r:162:ALA:HA	2.21	0.55
1:j:117:PRO:HB2	1:m:524:PRO:HD3	1.88	0.55
1:n:162:ALA:HA	1:s:143:GLN:NE2	2.22	0.55
1:C:146:GLN:NE2	1:C:498:LEU:HD11	2.22	0.55
1:D:146:GLN:NE2	1:D:498:LEU:HD11	2.22	0.55
1:E:146:GLN:NE2	1:E:498:LEU:HD11	2.22	0.55
1:G:143:GLN:NE2	1:W:162:ALA:HA	2.21	0.55
1:Q:92:ALA:HB3	1:Q:342:VAL:HG22	1.88	0.55
1:R:181:TRP:CD1	1:U:279:ARG:HD2	2.41	0.55
1:T:146:GLN:NE2	1:T:498:LEU:HD11	2.22	0.55
1:X:162:ALA:HA	1:6:143:GLN:NE2	2.22	0.55
1:3:436:ASN:ND2	1:i:465:SER:HA	2.21	0.55
1:a:146:GLN:NE2	1:a:498:LEU:HD11	2.22	0.55
1:e:146:GLN:NE2	1:e:498:LEU:HD11	2.22	0.55
1:j:162:ALA:HA	1:z:143:GLN:NE2	2.22	0.55
1:v:143:GLN:NE2	1:w:162:ALA:HA	2.21	0.55
1:y:436:ASN:ND2	1:z:465:SER:HA	2.22	0.55
1:A:143:GLN:NE2	1:E:162:ALA:HA	2.21	0.55
1:B:162:ALA:HA	1:C:143:GLN:NE2	2.21	0.55
1:F:92:ALA:HB3	1:F:342:VAL:HG22	1.88	0.55
1:H:436:ASN:ND2	1:W:465:SER:HA	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:146:GLN:NE2	1:L:498:LEU:HD11	2.22	0.55
1:N:436:ASN:ND2	1:P:465:SER:HA	2.22	0.55
1:O:146:GLN:NE2	1:O:498:LEU:HD11	2.22	0.55
1:S:92:ALA:HB3	1:S:342:VAL:HG22	1.88	0.55
1:V:162:ALA:HA	1:W:143:GLN:NE2	2.22	0.55
1:X:146:GLN:NE2	1:X:498:LEU:HD11	2.22	0.55
1:X:465:SER:HA	1:5:436:ASN:ND2	2.21	0.55
1:Z:162:ALA:HA	1:1:143:GLN:NE2	2.21	0.55
1:Z:465:SER:HA	1:w:436:ASN:ND2	2.21	0.55
1:2:143:GLN:NE2	1:i:162:ALA:HA	2.22	0.55
1:b:143:GLN:NE2	1:c:162:ALA:HA	2.21	0.55
1:c:436:ASN:ND2	1:d:465:SER:HA	2.22	0.55
1:g:146:GLN:NE2	1:g:498:LEU:HD11	2.22	0.55
1:g:436:ASN:ND2	1:h:465:SER:HA	2.21	0.55
1:i:146:GLN:NE2	1:i:498:LEU:HD11	2.22	0.55
1:k:181:TRP:CD1	1:m:279:ARG:HD2	2.41	0.55
1:l:92:ALA:HB3	1:l:342:VAL:HG22	1.88	0.55
1:n:143:GLN:NE2	1:z:162:ALA:HA	2.21	0.55
1:q:146:GLN:NE2	1:q:498:LEU:HD11	2.22	0.55
1:r:92:ALA:HB3	1:r:342:VAL:HG22	1.88	0.55
1:t:146:GLN:NE2	1:t:498:LEU:HD11	2.22	0.55
1:t:436:ASN:ND2	1:u:465:SER:HA	2.22	0.55
1:I:259:THR:HG21	1:I:565:ARG:NH1	2.22	0.55
1:N:143:GLN:NE2	1:g:162:ALA:HA	2.21	0.55
1:O:465:SER:HA	1:h:436:ASN:ND2	2.21	0.55
1:Q:143:GLN:NE2	1:S:162:ALA:HA	2.22	0.55
1:T:436:ASN:ND2	1:4:465:SER:HA	2.21	0.55
1:V:146:GLN:NE2	1:V:498:LEU:HD11	2.22	0.55
1:Z:146:GLN:NE2	1:Z:498:LEU:HD11	2.22	0.55
1:1:436:ASN:ND2	1:8:465:SER:HA	2.21	0.55
1:f:146:GLN:NE2	1:f:498:LEU:HD11	2.22	0.55
1:f:162:ALA:HA	1:h:143:GLN:NE2	2.21	0.55
1:i:259:THR:HG21	1:i:565:ARG:NH1	2.22	0.55
1:o:259:THR:HG21	1:o:565:ARG:NH1	2.22	0.55
1:s:92:ALA:HB3	1:s:342:VAL:HG22	1.88	0.55
1:u:436:ASN:ND2	1:v:465:SER:HA	2.21	0.55
1:w:143:GLN:NE2	1:8:162:ALA:HA	2.21	0.55
1:8:146:GLN:NE2	1:8:498:LEU:HD11	2.22	0.55
1:B:294:ASN:OD1	1:J:320:ASN:HB2	2.07	0.55
1:C:162:ALA:HA	1:D:143:GLN:NE2	2.21	0.55
1:K:146:GLN:NE2	1:K:498:LEU:HD11	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:143:GLN:NE2	1:N:162:ALA:HA	2.22	0.55
1:O:143:GLN:NE2	1:P:162:ALA:HA	2.21	0.55
1:O:162:ALA:HA	1:4:143:GLN:NE2	2.21	0.55
1:T:162:ALA:HA	1:c:143:GLN:NE2	2.22	0.55
1:T:259:THR:HG21	1:T:565:ARG:NH1	2.22	0.55
1:W:259:THR:HG21	1:W:565:ARG:NH1	2.22	0.55
1:X:259:THR:HG21	1:X:565:ARG:NH1	2.22	0.55
1:4:436:ASN:ND2	1:f:465:SER:HA	2.21	0.55
1:a:259:THR:HG21	1:a:565:ARG:NH1	2.22	0.55
1:g:259:THR:HG21	1:g:565:ARG:NH1	2.22	0.55
1:h:92:ALA:HB3	1:h:342:VAL:HG22	1.88	0.55
1:j:146:GLN:NE2	1:j:498:LEU:HD11	2.22	0.55
1:l:162:ALA:HA	1:r:143:GLN:NE2	2.22	0.55
1:l:294:ASN:OD1	1:m:320:ASN:HB2	2.07	0.55
1:p:259:THR:HG21	1:p:565:ARG:NH1	2.22	0.55
1:x:146:GLN:NE2	1:x:498:LEU:HD11	2.22	0.55
1:z:259:THR:HG21	1:z:565:ARG:NH1	2.22	0.55
1:A:259:THR:HG21	1:A:565:ARG:NH1	2.22	0.55
1:C:259:THR:HG21	1:C:565:ARG:NH1	2.22	0.55
1:M:146:GLN:NE2	1:M:498:LEU:HD11	2.22	0.55
1:S:146:GLN:NE2	1:S:498:LEU:HD11	2.22	0.55
1:S:294:ASN:OD1	1:U:320:ASN:HB2	2.07	0.55
1:V:436:ASN:ND2	1:5:465:SER:HA	2.21	0.55
1:4:92:ALA:HB3	1:4:342:VAL:HG22	1.88	0.55
1:a:143:GLN:NE2	1:u:162:ALA:HA	2.21	0.55
1:a:162:ALA:HA	1:e:143:GLN:NE2	2.22	0.55
1:b:146:GLN:NE2	1:b:498:LEU:HD11	2.22	0.55
1:d:162:ALA:HA	1:f:143:GLN:NE2	2.21	0.55
1:h:146:GLN:NE2	1:h:498:LEU:HD11	2.22	0.55
1:p:143:GLN:NE2	1:q:162:ALA:HA	2.22	0.55
1:s:259:THR:HG21	1:s:565:ARG:NH1	2.22	0.55
1:t:465:SER:HA	1:v:436:ASN:ND2	2.22	0.55
1:F:259:THR:HG21	1:F:565:ARG:NH1	2.22	0.55
1:J:117:PRO:HB2	1:K:524:PRO:HD3	1.89	0.55
1:K:92:ALA:HB3	1:K:342:VAL:HG22	1.88	0.55
1:R:162:ALA:HA	1:V:143:GLN:NE2	2.21	0.55
1:Z:436:ASN:ND2	1:x:465:SER:HA	2.22	0.55
1:2:146:GLN:NE2	1:2:498:LEU:HD11	2.22	0.55
1:3:465:SER:HA	1:j:436:ASN:ND2	2.21	0.55
1:4:146:GLN:NE2	1:4:498:LEU:HD11	2.22	0.55
1:d:524:PRO:HD3	1:q:117:PRO:HB2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:143:GLN:NE2	1:k:162:ALA:HA	2.21	0.55
1:l:146:GLN:NE2	1:l:498:LEU:HD11	2.22	0.55
1:l:259:THR:HG21	1:l:565:ARG:NH1	2.22	0.55
1:v:117:PRO:HB2	1:x:524:PRO:HD3	1.89	0.55
1:B:92:ALA:HB3	1:B:342:VAL:HG22	1.88	0.55
1:D:117:PRO:HB2	1:M:524:PRO:HD3	1.89	0.55
1:E:117:PRO:HB2	1:P:524:PRO:HD3	1.89	0.55
1:E:259:THR:HG21	1:E:565:ARG:NH1	2.22	0.55
1:H:259:THR:HG21	1:H:565:ARG:NH1	2.22	0.55
1:K:162:ALA:HA	1:7:143:GLN:NE2	2.21	0.55
1:K:465:SER:HA	1:8:436:ASN:ND2	2.22	0.55
1:S:259:THR:HG21	1:S:565:ARG:NH1	2.22	0.55
1:V:166:ILE:HD12	1:V:241:LEU:HD12	1.89	0.55
1:Y:143:GLN:NE2	1:x:162:ALA:HA	2.21	0.55
1:1:146:GLN:NE2	1:1:498:LEU:HD11	2.22	0.55
1:3:259:THR:HG21	1:3:565:ARG:NH1	2.22	0.55
1:5:259:THR:HG21	1:5:565:ARG:NH1	2.22	0.55
1:6:146:GLN:NE2	1:6:498:LEU:HD11	2.22	0.55
1:b:524:PRO:HD3	1:e:117:PRO:HB2	1.89	0.55
1:c:92:ALA:HB3	1:c:342:VAL:HG22	1.88	0.55
1:d:436:ASN:ND2	1:e:465:SER:HA	2.22	0.55
1:e:162:ALA:HA	1:q:143:GLN:NE2	2.21	0.55
1:f:259:THR:HG21	1:f:565:ARG:NH1	2.22	0.55
1:k:92:ALA:HB3	1:k:342:VAL:HG22	1.88	0.55
1:n:117:PRO:HB2	1:y:524:PRO:HD3	1.89	0.55
1:o:117:PRO:HB2	1:u:524:PRO:HD3	1.89	0.55
1:o:436:ASN:ND2	1:p:465:SER:HA	2.21	0.55
1:q:465:SER:HA	1:s:436:ASN:ND2	2.21	0.55
1:r:294:ASN:OD1	1:s:320:ASN:HB2	2.08	0.55
1:u:92:ALA:HB3	1:u:342:VAL:HG22	1.88	0.55
1:u:146:GLN:NE2	1:u:498:LEU:HD11	2.22	0.55
1:w:146:GLN:NE2	1:w:498:LEU:HD11	2.22	0.55
1:y:146:GLN:NE2	1:y:498:LEU:HD11	2.22	0.55
1:A:146:GLN:NE2	1:A:498:LEU:HD11	2.22	0.54
1:B:146:GLN:NE2	1:B:498:LEU:HD11	2.22	0.54
1:B:524:PRO:HD3	1:I:117:PRO:HB2	1.89	0.54
1:D:162:ALA:HA	1:E:143:GLN:NE2	2.21	0.54
1:D:436:ASN:ND2	1:N:465:SER:HA	2.22	0.54
1:F:320:ASN:HB2	1:Q:294:ASN:OD1	2.08	0.54
1:G:117:PRO:HB2	1:H:524:PRO:HD3	1.89	0.54
1:H:146:GLN:NE2	1:H:498:LEU:HD11	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:146:GLN:NE2	1:I:498:LEU:HD11	2.22	0.54
1:L:259:THR:HG21	1:L:565:ARG:NH1	2.22	0.54
1:M:259:THR:HG21	1:M:565:ARG:NH1	2.22	0.54
1:N:92:ALA:HB3	1:N:342:VAL:HG22	1.88	0.54
1:O:259:THR:HG21	1:O:565:ARG:NH1	2.22	0.54
1:P:259:THR:HG21	1:P:565:ARG:NH1	2.22	0.54
1:Z:166:ILE:HD12	1:Z:241:LEU:HD12	1.90	0.54
1:4:117:PRO:HB2	1:h:524:PRO:HD3	1.89	0.54
1:4:524:PRO:HD3	1:h:117:PRO:HB2	1.89	0.54
1:6:465:SER:HA	1:a:436:ASN:ND2	2.21	0.54
1:b:259:THR:HG21	1:b:565:ARG:NH1	2.22	0.54
1:c:465:SER:HA	1:e:436:ASN:ND2	2.22	0.54
1:d:259:THR:HG21	1:d:565:ARG:NH1	2.22	0.54
1:e:259:THR:HG21	1:e:565:ARG:NH1	2.22	0.54
1:h:162:ALA:HA	1:l:143:GLN:NE2	2.21	0.54
1:j:166:ILE:HD12	1:j:241:LEU:HD12	1.90	0.54
1:q:259:THR:HG21	1:q:565:ARG:NH1	2.22	0.54
1:t:166:ILE:HD12	1:t:241:LEU:HD12	1.89	0.54
1:u:294:ASN:OD1	1:v:320:ASN:HB2	2.07	0.54
1:x:92:ALA:HB3	1:x:342:VAL:HG22	1.88	0.54
1:y:259:THR:HG21	1:y:565:ARG:NH1	2.22	0.54
1:8:166:ILE:HD12	1:8:241:LEU:HD12	1.90	0.54
1:A:465:SER:HA	1:I:436:ASN:ND2	2.21	0.54
1:B:166:ILE:HD12	1:B:241:LEU:HD12	1.89	0.54
1:D:320:ASN:HB2	1:P:294:ASN:OD1	2.08	0.54
1:D:465:SER:HA	1:P:436:ASN:ND2	2.22	0.54
1:E:465:SER:HA	1:F:436:ASN:ND2	2.21	0.54
1:G:299:TYR:HB3	1:I:84:GLN:OE1	2.08	0.54
1:K:84:GLN:OE1	1:8:299:TYR:HB3	2.08	0.54
1:K:259:THR:HG21	1:K:565:ARG:NH1	2.22	0.54
1:L:166:ILE:HD12	1:L:241:LEU:HD12	1.90	0.54
1:P:146:GLN:NE2	1:P:498:LEU:HD11	2.22	0.54
1:R:92:ALA:HB3	1:R:342:VAL:HG22	1.88	0.54
1:R:124:LEU:O	1:R:260:ASN:ND2	2.40	0.54
1:S:143:GLN:NE2	1:4:162:ALA:HA	2.21	0.54
1:U:146:GLN:NE2	1:U:498:LEU:HD11	2.22	0.54
1:U:259:THR:HG21	1:U:565:ARG:NH1	2.22	0.54
1:Z:299:TYR:HB3	1:x:84:GLN:OE1	2.08	0.54
1:a:465:SER:HA	1:b:436:ASN:ND2	2.21	0.54
1:d:92:ALA:HB3	1:d:342:VAL:HG22	1.88	0.54
1:d:146:GLN:NE2	1:d:498:LEU:HD11	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:294:ASN:OD1	1:e:320:ASN:HB2	2.08	0.54
1:i:92:ALA:HB3	1:i:342:VAL:HG22	1.88	0.54
1:k:124:LEU:O	1:k:260:ASN:ND2	2.40	0.54
1:m:146:GLN:NE2	1:m:498:LEU:HD11	2.22	0.54
1:o:124:LEU:O	1:o:260:ASN:ND2	2.40	0.54
1:o:146:GLN:NE2	1:o:498:LEU:HD11	2.22	0.54
1:p:146:GLN:NE2	1:p:498:LEU:HD11	2.22	0.54
1:r:259:THR:HG21	1:r:565:ARG:NH1	2.22	0.54
1:r:436:ASN:ND2	1:s:465:SER:HA	2.21	0.54
1:t:92:ALA:HB3	1:t:342:VAL:HG22	1.88	0.54
1:t:259:THR:HG21	1:t:565:ARG:NH1	2.22	0.54
1:u:166:ILE:HD12	1:u:241:LEU:HD12	1.89	0.54
1:v:124:LEU:O	1:v:260:ASN:ND2	2.40	0.54
1:A:117:PRO:HB2	1:F:524:PRO:HD3	1.89	0.54
1:A:294:ASN:OD1	1:G:320:ASN:HB2	2.08	0.54
1:C:436:ASN:ND2	1:2:465:SER:HA	2.22	0.54
1:D:259:THR:HG21	1:D:565:ARG:NH1	2.22	0.54
1:E:524:PRO:HD3	1:P:117:PRO:HB2	1.89	0.54
1:F:465:SER:HA	1:Q:436:ASN:ND2	2.21	0.54
1:H:84:GLN:OE1	1:Y:299:TYR:HB3	2.08	0.54
1:I:124:LEU:O	1:I:260:ASN:ND2	2.40	0.54
1:J:124:LEU:O	1:J:260:ASN:ND2	2.40	0.54
1:J:143:GLN:NE2	1:1:162:ALA:HA	2.22	0.54
1:Q:259:THR:HG21	1:Q:565:ARG:NH1	2.22	0.54
1:Q:524:PRO:HD3	1:R:117:PRO:HB2	1.89	0.54
1:R:294:ASN:OD1	1:S:320:ASN:HB2	2.07	0.54
1:T:320:ASN:HB2	1:f:294:ASN:OD1	2.07	0.54
1:Y:146:GLN:NE2	1:Y:498:LEU:HD11	2.22	0.54
1:Z:259:THR:HG21	1:Z:565:ARG:NH1	2.22	0.54
1:5:146:GLN:NE2	1:5:498:LEU:HD11	2.22	0.54
1:k:166:ILE:HD12	1:k:241:LEU:HD12	1.89	0.54
1:m:166:ILE:HD12	1:m:241:LEU:HD12	1.89	0.54
1:m:259:THR:HG21	1:m:565:ARG:NH1	2.22	0.54
1:n:299:TYR:HB3	1:o:84:GLN:OE1	2.08	0.54
1:q:294:ASN:OD1	1:r:320:ASN:HB2	2.07	0.54
1:x:259:THR:HG21	1:x:565:ARG:NH1	2.22	0.54
1:y:84:GLN:OE1	1:7:299:TYR:HB3	2.08	0.54
1:7:117:PRO:HB2	1:8:524:PRO:HD3	1.89	0.54
1:C:465:SER:HA	1:M:436:ASN:ND2	2.21	0.54
1:E:436:ASN:ND2	1:Q:465:SER:HA	2.22	0.54
1:L:92:ALA:HB3	1:L:342:VAL:HG22	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:162:ALA:HA	1:3:143:GLN:NE2	2.22	0.54
1:M:181:TRP:CD1	1:2:279:ARG:HD2	2.43	0.54
1:O:166:ILE:HD12	1:O:241:LEU:HD12	1.90	0.54
1:O:294:ASN:OD1	1:g:320:ASN:HB2	2.07	0.54
1:P:92:ALA:HB3	1:P:342:VAL:HG22	1.88	0.54
1:R:166:ILE:HD12	1:R:241:LEU:HD12	1.89	0.54
1:R:299:TYR:HB3	1:S:84:GLN:OE1	2.08	0.54
1:U:166:ILE:HD12	1:U:241:LEU:HD12	1.89	0.54
1:X:92:ALA:HB3	1:X:342:VAL:HG22	1.88	0.54
1:Y:117:PRO:HB2	1:Z:524:PRO:HD3	1.89	0.54
1:2:259:THR:HG21	1:2:565:ARG:NH1	2.22	0.54
1:5:524:PRO:HD3	1:6:117:PRO:HB2	1.89	0.54
1:6:166:ILE:HD12	1:6:241:LEU:HD12	1.90	0.54
1:c:259:THR:HG21	1:c:565:ARG:NH1	2.22	0.54
1:i:524:PRO:HD3	1:z:117:PRO:HB2	1.89	0.54
1:k:117:PRO:HB2	1:r:524:PRO:HD3	1.89	0.54
1:k:294:ASN:OD1	1:l:320:ASN:HB2	2.07	0.54
1:k:436:ASN:ND2	1:l:465:SER:HA	2.21	0.54
1:n:259:THR:HG21	1:n:565:ARG:NH1	2.22	0.54
1:n:320:ASN:HB2	1:p:294:ASN:OD1	2.08	0.54
1:p:117:PRO:HB2	1:s:524:PRO:HD3	1.89	0.54
1:q:166:ILE:HD12	1:q:241:LEU:HD12	1.90	0.54
1:r:146:GLN:NE2	1:r:498:LEU:HD11	2.22	0.54
1:w:84:GLN:OE1	1:x:299:TYR:HB3	2.08	0.54
1:y:92:ALA:HB3	1:y:342:VAL:HG22	1.88	0.54
1:z:92:ALA:HB3	1:z:342:VAL:HG22	1.88	0.54
1:z:299:TYR:HB3	1:7:84:GLN:OE1	2.08	0.54
1:7:146:GLN:NE2	1:7:498:LEU:HD11	2.22	0.54
1:7:166:ILE:HD12	1:7:241:LEU:HD12	1.90	0.54
1:D:124:LEU:O	1:D:260:ASN:ND2	2.40	0.54
1:E:166:ILE:HD12	1:E:241:LEU:HD12	1.90	0.54
1:E:294:ASN:OD1	1:Q:320:ASN:HB2	2.07	0.54
1:F:166:ILE:HD12	1:F:241:LEU:HD12	1.90	0.54
1:G:124:LEU:O	1:G:260:ASN:ND2	2.41	0.54
1:G:146:GLN:NE2	1:G:498:LEU:HD11	2.22	0.54
1:I:90:LEU:HD13	1:I:342:VAL:HG11	1.82	0.54
1:J:146:GLN:NE2	1:J:498:LEU:HD11	2.22	0.54
1:J:262:ARG:NE	1:L:227:ASN:HD22	2.05	0.54
1:K:299:TYR:HB3	1:1:84:GLN:OE1	2.08	0.54
1:L:124:LEU:O	1:L:260:ASN:ND2	2.40	0.54
1:N:259:THR:HG21	1:N:565:ARG:NH1	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:166:ILE:HD12	1:Q:241:LEU:HD12	1.89	0.54
1:R:436:ASN:ND2	1:S:465:SER:HA	2.21	0.54
1:R:465:SER:HA	1:U:436:ASN:ND2	2.22	0.54
1:S:124:LEU:O	1:S:260:ASN:ND2	2.40	0.54
1:T:84:GLN:OE1	1:f:299:TYR:HB3	2.08	0.54
1:V:124:LEU:O	1:V:260:ASN:ND2	2.40	0.54
1:W:117:PRO:HB2	1:X:524:PRO:HD3	1.89	0.54
1:W:146:GLN:NE2	1:W:498:LEU:HD11	2.22	0.54
1:W:299:TYR:HB3	1:Y:84:GLN:OE1	2.08	0.54
1:Y:166:ILE:HD12	1:Y:241:LEU:HD12	1.90	0.54
1:2:166:ILE:HD12	1:2:241:LEU:HD12	1.90	0.54
1:3:146:GLN:NE2	1:3:498:LEU:HD11	2.22	0.54
1:4:259:THR:HG21	1:4:565:ARG:NH1	2.22	0.54
1:5:143:GLN:NE2	1:b:162:ALA:HA	2.22	0.54
1:6:259:THR:HG21	1:6:565:ARG:NH1	2.22	0.54
1:d:117:PRO:HB2	1:q:524:PRO:HD3	1.89	0.54
1:f:166:ILE:HD12	1:f:241:LEU:HD12	1.90	0.54
1:g:124:LEU:O	1:g:260:ASN:ND2	2.40	0.54
1:h:259:THR:HG21	1:h:565:ARG:NH1	2.22	0.54
1:j:124:LEU:O	1:j:260:ASN:ND2	2.40	0.54
1:j:259:THR:HG21	1:j:565:ARG:NH1	2.22	0.54
1:k:299:TYR:HB3	1:l:84:GLN:OE1	2.08	0.54
1:l:124:LEU:O	1:l:260:ASN:ND2	2.41	0.54
1:n:124:LEU:O	1:n:260:ASN:ND2	2.40	0.54
1:n:465:SER:HA	1:p:436:ASN:ND2	2.21	0.54
1:o:143:GLN:NE2	1:v:162:ALA:HA	2.22	0.54
1:q:436:ASN:ND2	1:r:465:SER:HA	2.22	0.54
1:r:166:ILE:HD12	1:r:241:LEU:HD12	1.89	0.54
1:t:124:LEU:O	1:t:260:ASN:ND2	2.40	0.54
1:v:146:GLN:NE2	1:v:498:LEU:HD11	2.22	0.54
1:z:146:GLN:NE2	1:z:498:LEU:HD11	2.22	0.54
1:8:259:THR:HG21	1:8:565:ARG:NH1	2.22	0.54
1:C:279:ARG:HD2	1:2:181:TRP:CD1	2.43	0.54
1:C:299:TYR:HB3	1:2:84:GLN:OE1	2.08	0.54
1:D:299:TYR:HB3	1:N:84:GLN:OE1	2.08	0.54
1:G:259:THR:HG21	1:G:565:ARG:NH1	2.22	0.54
1:H:92:ALA:HB3	1:H:342:VAL:HG22	1.88	0.54
1:H:124:LEU:O	1:H:260:ASN:ND2	2.41	0.54
1:H:279:ARG:HD2	1:W:181:TRP:CD1	2.43	0.54
1:N:124:LEU:O	1:N:260:ASN:ND2	2.41	0.54
1:N:299:TYR:HB3	1:P:84:GLN:OE1	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:124:LEU:O	1:O:260:ASN:ND2	2.40	0.54
1:O:299:TYR:HB3	1:g:84:GLN:OE1	2.08	0.54
1:Q:117:PRO:HB2	1:R:524:PRO:HD3	1.89	0.54
1:Q:146:GLN:NE2	1:Q:498:LEU:HD11	2.22	0.54
1:S:436:ASN:ND2	1:U:465:SER:HA	2.22	0.54
1:T:124:LEU:O	1:T:260:ASN:ND2	2.40	0.54
1:W:279:ARG:HD2	1:Y:181:TRP:CD1	2.43	0.54
1:2:117:PRO:HB2	1:3:524:PRO:HD3	1.89	0.54
1:3:166:ILE:HD12	1:3:241:LEU:HD12	1.90	0.54
1:4:279:ARG:HD2	1:f:181:TRP:CD1	2.43	0.54
1:5:124:LEU:O	1:5:260:ASN:ND2	2.40	0.54
1:5:166:ILE:HD12	1:5:241:LEU:HD12	1.90	0.54
1:6:84:GLN:OE1	1:a:299:TYR:HB3	2.08	0.54
1:6:279:ARG:HD2	1:b:181:TRP:CD1	2.43	0.54
1:c:84:GLN:OE1	1:e:299:TYR:HB3	2.08	0.54
1:d:124:LEU:O	1:d:260:ASN:ND2	2.41	0.54
1:e:124:LEU:O	1:e:260:ASN:ND2	2.41	0.54
1:k:143:GLN:NE2	1:s:162:ALA:HA	2.21	0.54
1:k:465:SER:HA	1:m:436:ASN:ND2	2.22	0.54
1:k:524:PRO:HD3	1:r:117:PRO:HB2	1.89	0.54
1:m:124:LEU:O	1:m:260:ASN:ND2	2.40	0.54
1:o:166:ILE:HD12	1:o:241:LEU:HD12	1.89	0.54
1:q:181:TRP:CD1	1:s:279:ARG:HD2	2.43	0.54
1:r:299:TYR:HB3	1:s:84:GLN:OE1	2.08	0.54
1:s:166:ILE:HD12	1:s:241:LEU:HD12	1.90	0.54
1:y:279:ARG:HD2	1:z:181:TRP:CD1	2.43	0.54
1:z:279:ARG:HD2	1:7:181:TRP:CD1	2.43	0.54
1:E:124:LEU:O	1:E:260:ASN:ND2	2.40	0.54
1:E:181:TRP:CD1	1:F:279:ARG:HD2	2.43	0.54
1:F:84:GLN:OE1	1:Q:299:TYR:HB3	2.08	0.54
1:F:162:ALA:HA	1:R:143:GLN:NE2	2.21	0.54
1:J:166:ILE:HD12	1:J:241:LEU:HD12	1.90	0.54
1:K:279:ARG:HD2	1:1:181:TRP:CD1	2.43	0.54
1:O:181:TRP:CD1	1:h:279:ARG:HD2	2.43	0.54
1:O:320:ASN:HB2	1:h:294:ASN:OD1	2.08	0.54
1:P:124:LEU:O	1:P:260:ASN:ND2	2.41	0.54
1:R:146:GLN:NE2	1:R:498:LEU:HD11	2.22	0.54
1:U:124:LEU:O	1:U:260:ASN:ND2	2.40	0.54
1:V:84:GLN:OE1	1:X:299:TYR:HB3	2.08	0.54
1:V:259:THR:HG21	1:V:565:ARG:NH1	2.22	0.54
1:V:320:ASN:HB2	1:X:294:ASN:OD1	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:92:ALA:HB3	1:W:342:VAL:HG22	1.88	0.54
1:Z:124:LEU:O	1:Z:260:ASN:ND2	2.40	0.54
1:1:124:LEU:O	1:1:260:ASN:ND2	2.40	0.54
1:2:124:LEU:O	1:2:260:ASN:ND2	2.40	0.54
1:3:84:GLN:OE1	1:j:299:TYR:HB3	2.08	0.54
1:3:124:LEU:O	1:3:260:ASN:ND2	2.40	0.54
1:3:279:ARG:HD2	1:i:181:TRP:CD1	2.43	0.54
1:3:320:ASN:HB2	1:j:294:ASN:OD1	2.07	0.54
1:6:124:LEU:O	1:6:260:ASN:ND2	2.40	0.54
1:a:181:TRP:CD1	1:b:279:ARG:HD2	2.43	0.54
1:c:124:LEU:O	1:c:260:ASN:ND2	2.41	0.54
1:c:299:TYR:HB3	1:d:84:GLN:OE1	2.08	0.54
1:d:279:ARG:HD2	1:e:181:TRP:CD1	2.43	0.54
1:f:124:LEU:O	1:f:260:ASN:ND2	2.40	0.54
1:i:294:ASN:OD1	1:j:320:ASN:HB2	2.07	0.54
1:l:436:ASN:ND2	1:m:465:SER:HA	2.22	0.54
1:n:146:GLN:NE2	1:n:498:LEU:HD11	2.22	0.54
1:q:124:LEU:O	1:q:260:ASN:ND2	2.40	0.54
1:s:146:GLN:NE2	1:s:498:LEU:HD11	2.22	0.54
1:v:166:ILE:HD12	1:v:241:LEU:HD12	1.90	0.54
1:w:181:TRP:CD1	1:x:279:ARG:HD2	2.43	0.54
1:x:166:ILE:HD12	1:x:241:LEU:HD12	1.89	0.54
1:y:124:LEU:O	1:y:260:ASN:ND2	2.41	0.54
1:8:124:LEU:O	1:8:260:ASN:ND2	2.40	0.54
1:A:279:ARG:HD2	1:G:181:TRP:CD1	2.43	0.54
1:C:181:TRP:CD1	1:M:279:ARG:HD2	2.43	0.54
1:D:181:TRP:CD1	1:P:279:ARG:HD2	2.43	0.54
1:F:146:GLN:NE2	1:F:498:LEU:HD11	2.22	0.54
1:H:166:ILE:HD12	1:H:241:LEU:HD12	1.90	0.54
1:M:320:ASN:HB2	1:2:294:ASN:OD1	2.08	0.54
1:P:166:ILE:HD12	1:P:241:LEU:HD12	1.90	0.54
1:V:279:ARG:HD2	1:5:181:TRP:CD1	2.43	0.54
1:V:294:ASN:OD1	1:5:320:ASN:HB2	2.07	0.54
1:V:299:TYR:HB3	1:5:84:GLN:OE1	2.08	0.54
1:X:181:TRP:CD1	1:5:279:ARG:HD2	2.43	0.54
1:4:294:ASN:OD1	1:f:320:ASN:HB2	2.08	0.54
1:6:294:ASN:OD1	1:b:320:ASN:HB2	2.08	0.54
1:c:320:ASN:HB2	1:e:294:ASN:OD1	2.07	0.54
1:i:299:TYR:HB3	1:j:84:GLN:OE1	2.08	0.54
1:k:146:GLN:NE2	1:k:498:LEU:HD11	2.22	0.54
1:n:181:TRP:CD1	1:p:279:ARG:HD2	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:294:ASN:OD1	1:p:320:ASN:HB2	2.08	0.54
1:t:320:ASN:HB2	1:v:294:ASN:OD1	2.07	0.54
1:w:124:LEU:O	1:w:260:ASN:ND2	2.40	0.54
1:y:294:ASN:OD1	1:z:320:ASN:HB2	2.08	0.54
1:7:259:THR:HG21	1:7:565:ARG:NH1	2.22	0.54
1:7:524:PRO:HD3	1:8:117:PRO:HB2	1.89	0.54
1:A:436:ASN:ND2	1:G:465:SER:HA	2.21	0.54
1:H:162:ALA:HA	1:Z:143:GLN:NE2	2.21	0.54
1:H:294:ASN:OD1	1:W:320:ASN:HB2	2.08	0.54
1:I:166:ILE:HD12	1:I:241:LEU:HD12	1.89	0.54
1:K:166:ILE:HD12	1:K:241:LEU:HD12	1.89	0.54
1:S:524:PRO:HD3	1:T:117:PRO:HB2	1.89	0.54
1:Z:181:TRP:CD1	1:w:279:ARG:HD2	2.43	0.54
1:6:181:TRP:CD1	1:a:279:ARG:HD2	2.43	0.54
1:d:166:ILE:HD12	1:d:241:LEU:HD12	1.90	0.54
1:g:166:ILE:HD12	1:g:241:LEU:HD12	1.89	0.54
1:g:294:ASN:OD1	1:h:320:ASN:HB2	2.08	0.54
1:r:279:ARG:HD2	1:s:181:TRP:CD1	2.43	0.54
1:s:124:LEU:O	1:s:260:ASN:ND2	2.40	0.54
1:t:84:GLN:OE1	1:v:299:TYR:HB3	2.08	0.54
1:A:299:TYR:HB3	1:G:84:GLN:OE1	2.08	0.54
1:A:320:ASN:HB2	1:I:294:ASN:OD1	2.08	0.54
1:D:294:ASN:OD1	1:N:320:ASN:HB2	2.07	0.54
1:E:84:GLN:OE1	1:F:299:TYR:HB3	2.08	0.54
1:F:124:LEU:O	1:F:260:ASN:ND2	2.40	0.54
1:F:181:TRP:CD1	1:Q:279:ARG:HD2	2.43	0.54
1:H:181:TRP:CD1	1:Y:279:ARG:HD2	2.43	0.54
1:H:299:TYR:HB3	1:W:84:GLN:OE1	2.08	0.54
1:K:181:TRP:CD1	1:8:279:ARG:HD2	2.43	0.54
1:N:117:PRO:HB2	1:O:524:PRO:HD3	1.89	0.54
1:N:146:GLN:NE2	1:N:498:LEU:HD11	2.22	0.54
1:N:294:ASN:OD1	1:P:320:ASN:HB2	2.07	0.54
1:T:166:ILE:HD12	1:T:241:LEU:HD12	1.89	0.54
1:T:294:ASN:OD1	1:4:320:ASN:HB2	2.08	0.54
1:Y:259:THR:HG21	1:Y:565:ARG:NH1	2.22	0.54
1:Y:524:PRO:HD3	1:Z:117:PRO:HB2	1.89	0.54
1:Z:279:ARG:HD2	1:x:181:TRP:CD1	2.43	0.54
1:1:259:THR:HG21	1:1:565:ARG:NH1	2.22	0.54
1:3:181:TRP:CD1	1:j:279:ARG:HD2	2.43	0.54
1:6:320:ASN:HB2	1:a:294:ASN:OD1	2.07	0.54
1:a:524:PRO:HD3	1:t:117:PRO:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:117:PRO:HB2	1:f:524:PRO:HD3	1.89	0.54
1:g:117:PRO:HB2	1:l:524:PRO:HD3	1.89	0.54
1:i:436:ASN:ND2	1:j:465:SER:HA	2.21	0.54
1:o:90:LEU:HD13	1:o:342:VAL:HG11	1.82	0.54
1:p:124:LEU:O	1:p:260:ASN:ND2	2.40	0.54
1:r:124:LEU:O	1:r:260:ASN:ND2	2.40	0.54
1:v:524:PRO:HD3	1:x:117:PRO:HB2	1.89	0.54
1:y:166:ILE:HD12	1:y:241:LEU:HD12	1.90	0.54
1:y:181:TRP:CD1	1:7:279:ARG:HD2	2.43	0.54
1:8:92:ALA:HB3	1:8:342:VAL:HG22	1.88	0.54
1:A:84:GLN:OE1	1:I:299:TYR:HB3	2.08	0.53
1:A:181:TRP:CD1	1:I:279:ARG:HD2	2.43	0.53
1:M:84:GLN:OE1	1:2:299:TYR:HB3	2.08	0.53
1:Q:124:LEU:O	1:Q:260:ASN:ND2	2.40	0.53
1:S:166:ILE:HD12	1:S:241:LEU:HD12	1.90	0.53
1:S:279:ARG:HD2	1:U:181:TRP:CD1	2.43	0.53
1:W:294:ASN:OD1	1:Y:320:ASN:HB2	2.07	0.53
1:Z:294:ASN:OD1	1:x:320:ASN:HB2	2.07	0.53
1:1:117:PRO:HB2	1:w:524:PRO:HD3	1.89	0.53
1:1:279:ARG:HD2	1:8:181:TRP:CD1	2.43	0.53
1:1:524:PRO:HD3	1:w:117:PRO:HB2	1.89	0.53
1:c:294:ASN:OD1	1:d:320:ASN:HB2	2.07	0.53
1:i:166:ILE:HD12	1:i:241:LEU:HD12	1.89	0.53
1:l:166:ILE:HD12	1:l:241:LEU:HD12	1.90	0.53
1:o:279:ARG:HD2	1:p:181:TRP:CD1	2.43	0.53
1:q:84:GLN:OE1	1:s:299:TYR:HB3	2.08	0.53
1:y:162:ALA:HA	1:8:143:GLN:NE2	2.21	0.53
1:B:259:THR:HG21	1:B:565:ARG:NH1	2.22	0.53
1:B:436:ASN:ND2	1:J:465:SER:HA	2.23	0.53
1:C:124:LEU:O	1:C:260:ASN:ND2	2.40	0.53
1:C:294:ASN:OD1	1:2:320:ASN:HB2	2.08	0.53
1:K:320:ASN:HB2	1:8:294:ASN:OD1	2.07	0.53
1:M:90:LEU:CD1	1:M:342:VAL:CG1	2.78	0.53
1:R:279:ARG:HD2	1:S:181:TRP:CD1	2.43	0.53
1:V:465:SER:HA	1:X:436:ASN:ND2	2.21	0.53
1:X:166:ILE:HD12	1:X:241:LEU:HD12	1.90	0.53
1:Z:92:ALA:HB3	1:Z:342:VAL:HG22	1.88	0.53
1:6:299:TYR:HB3	1:b:84:GLN:OE1	2.08	0.53
1:c:146:GLN:NE2	1:c:498:LEU:HD11	2.22	0.53
1:k:279:ARG:HD2	1:l:181:TRP:CD1	2.43	0.53
1:l:279:ARG:HD2	1:m:181:TRP:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:524:PRO:HD3	1:u:117:PRO:HB2	1.89	0.53
1:w:259:THR:HG21	1:w:565:ARG:NH1	2.22	0.53
1:y:299:TYR:HB3	1:z:84:GLN:OE1	2.08	0.53
1:y:320:ASN:HB2	1:7:294:ASN:OD1	2.07	0.53
1:A:86:THR:OG1	1:A:324:ASP:OD2	2.27	0.53
1:B:117:PRO:HB2	1:I:524:PRO:HD3	1.89	0.53
1:C:166:ILE:HD12	1:C:241:LEU:HD12	1.89	0.53
1:G:524:PRO:HD3	1:H:117:PRO:HB2	1.89	0.53
1:H:320:ASN:HB2	1:Y:294:ASN:OD1	2.07	0.53
1:J:436:ASN:ND2	1:L:465:SER:HA	2.23	0.53
1:L:143:GLN:NE2	1:2:162:ALA:HA	2.23	0.53
1:5:117:PRO:HB2	1:6:524:PRO:HD3	1.89	0.53
1:6:162:ALA:HA	1:t:143:GLN:NE2	2.24	0.53
1:a:124:LEU:O	1:a:260:ASN:ND2	2.40	0.53
1:b:90:LEU:CD1	1:b:342:VAL:CG1	2.78	0.53
1:b:124:LEU:O	1:b:260:ASN:ND2	2.40	0.53
1:c:524:PRO:HD3	1:f:117:PRO:HB2	1.89	0.53
1:h:166:ILE:HD12	1:h:241:LEU:HD12	1.90	0.53
1:n:84:GLN:OE1	1:p:299:TYR:HB3	2.08	0.53
1:n:524:PRO:HD3	1:y:117:PRO:HB2	1.89	0.53
1:p:86:THR:OG1	1:p:324:ASP:OD2	2.27	0.53
1:q:299:TYR:HB3	1:r:84:GLN:OE1	2.08	0.53
1:q:320:ASN:HB2	1:s:294:ASN:OD1	2.08	0.53
1:u:259:THR:HG21	1:u:565:ARG:NH1	2.22	0.53
1:z:166:ILE:HD12	1:z:241:LEU:HD12	1.90	0.53
1:z:294:ASN:OD1	1:7:320:ASN:HB2	2.07	0.53
1:B:279:ARG:HD2	1:J:181:TRP:CD1	2.43	0.53
1:C:524:PRO:HD3	1:L:117:PRO:HB2	1.90	0.53
1:E:299:TYR:HB3	1:Q:84:GLN:OE1	2.08	0.53
1:E:320:ASN:HB2	1:F:294:ASN:OD1	2.08	0.53
1:J:259:THR:HG21	1:J:565:ARG:NH1	2.22	0.53
1:M:124:LEU:O	1:M:260:ASN:ND2	2.40	0.53
1:N:524:PRO:HD3	1:O:117:PRO:HB2	1.89	0.53
1:Q:86:THR:OG1	1:Q:324:ASP:OD2	2.27	0.53
1:S:299:TYR:HB3	1:U:84:GLN:OE1	2.08	0.53
1:T:279:ARG:HD2	1:4:181:TRP:CD1	2.43	0.53
1:V:181:TRP:CD1	1:X:279:ARG:HD2	2.43	0.53
1:X:86:THR:OG1	1:X:324:ASP:OD2	2.27	0.53
1:Y:124:LEU:O	1:Y:260:ASN:ND2	2.41	0.53
1:a:166:ILE:HD12	1:a:241:LEU:HD12	1.90	0.53
1:a:320:ASN:HB2	1:b:294:ASN:OD1	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:86:THR:OG1	1:i:324:ASP:OD2	2.27	0.53
1:i:117:PRO:HB2	1:z:524:PRO:HD3	1.89	0.53
1:o:299:TYR:HB3	1:p:84:GLN:OE1	2.08	0.53
1:G:294:ASN:OD1	1:I:320:ASN:HB2	2.07	0.53
1:S:117:PRO:HB2	1:T:524:PRO:HD3	1.89	0.53
1:W:166:ILE:HD12	1:W:241:LEU:HD12	1.90	0.53
1:2:524:PRO:HD3	1:3:117:PRO:HB2	1.89	0.53
1:4:166:ILE:HD12	1:4:241:LEU:HD12	1.90	0.53
1:g:279:ARG:HD2	1:h:181:TRP:CD1	2.43	0.53
1:g:299:TYR:HB3	1:h:84:GLN:OE1	2.08	0.53
1:g:524:PRO:HD3	1:l:117:PRO:HB2	1.89	0.53
1:i:279:ARG:HD2	1:j:181:TRP:CD1	2.43	0.53
1:k:259:THR:HG21	1:k:565:ARG:NH1	2.22	0.53
1:l:299:TYR:HB3	1:m:84:GLN:OE1	2.08	0.53
1:A:166:ILE:HD12	1:A:241:LEU:HD12	1.90	0.53
1:B:262:ARG:NE	1:J:227:ASN:HD22	2.07	0.53
1:C:320:ASN:HB2	1:M:294:ASN:OD1	2.07	0.53
1:G:279:ARG:HD2	1:I:181:TRP:CD1	2.43	0.53
1:K:294:ASN:OD1	1:1:320:ASN:HB2	2.08	0.53
1:R:84:GLN:OE1	1:U:299:TYR:HB3	2.09	0.53
1:R:259:THR:HG21	1:R:565:ARG:NH1	2.22	0.53
1:Z:84:GLN:OE1	1:w:299:TYR:HB3	2.08	0.53
1:k:84:GLN:OE1	1:m:299:TYR:HB3	2.09	0.53
1:n:279:ARG:HD2	1:o:181:TRP:CD1	2.43	0.53
1:n:294:ASN:OD1	1:o:320:ASN:HB2	2.07	0.53
1:p:524:PRO:HD3	1:s:117:PRO:HB2	1.89	0.53
1:u:279:ARG:HD2	1:v:181:TRP:CD1	2.43	0.53
1:v:259:THR:HG21	1:v:565:ARG:NH1	2.22	0.53
1:z:124:LEU:O	1:z:260:ASN:ND2	2.41	0.53
1:7:124:LEU:O	1:7:260:ASN:ND2	2.41	0.53
1:A:524:PRO:HD3	1:F:117:PRO:HB2	1.89	0.53
1:N:279:ARG:HD2	1:P:181:TRP:CD1	2.43	0.53
1:O:84:GLN:OE1	1:h:299:TYR:HB3	2.08	0.53
1:R:227:ASN:HD22	1:U:262:ARG:NE	2.07	0.53
1:T:299:TYR:HB3	1:4:84:GLN:OE1	2.08	0.53
1:W:124:LEU:O	1:W:260:ASN:ND2	2.41	0.53
1:W:524:PRO:HD3	1:X:117:PRO:HB2	1.89	0.53
1:X:84:GLN:OE1	1:5:299:TYR:HB3	2.08	0.53
1:1:299:TYR:HB3	1:8:84:GLN:OE1	2.08	0.53
1:3:299:TYR:HB3	1:i:84:GLN:OE1	2.08	0.53
1:c:279:ARG:HD2	1:d:181:TRP:CD1	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:524:PRO:HD3	1:m:117:PRO:HB2	1.90	0.53
1:m:90:LEU:CD1	1:m:342:VAL:CG1	2.78	0.53
1:q:279:ARG:HD2	1:r:181:TRP:CD1	2.43	0.53
1:t:181:TRP:CD1	1:v:279:ARG:HD2	2.43	0.53
1:w:320:ASN:HB2	1:x:294:ASN:OD1	2.08	0.53
1:D:279:ARG:HD2	1:N:181:TRP:CD1	2.43	0.53
1:E:279:ARG:HD2	1:Q:181:TRP:CD1	2.43	0.53
1:U:117:PRO:HB2	1:V:524:PRO:HD3	1.90	0.53
1:Z:320:ASN:HB2	1:w:294:ASN:OD1	2.08	0.53
1:1:294:ASN:OD1	1:8:320:ASN:HB2	2.08	0.53
1:3:162:ALA:HA	1:m:143:GLN:NE2	2.24	0.53
1:4:299:TYR:HB3	1:f:84:GLN:OE1	2.08	0.53
1:k:227:ASN:HD22	1:m:262:ARG:NE	2.07	0.53
1:m:90:LEU:HD12	1:m:365:GLN:HE21	1.65	0.53
1:p:166:ILE:HD12	1:p:241:LEU:HD12	1.90	0.53
1:D:84:GLN:OE1	1:P:299:TYR:HB3	2.08	0.53
1:G:166:ILE:HD12	1:G:241:LEU:HD12	1.90	0.53
1:M:166:ILE:HD12	1:M:241:LEU:HD12	1.90	0.53
1:S:77:HIS:HB3	1:S:485:LYS:HD2	1.91	0.53
1:U:143:GLN:NE2	1:5:162:ALA:HA	2.23	0.53
1:a:84:GLN:OE1	1:b:299:TYR:HB3	2.08	0.53
1:c:166:ILE:HD12	1:c:241:LEU:HD12	1.90	0.53
1:c:181:TRP:CD1	1:e:279:ARG:HD2	2.43	0.53
1:x:124:LEU:O	1:x:260:ASN:ND2	2.40	0.53
1:B:299:TYR:HB3	1:J:84:GLN:OE1	2.07	0.53
1:C:84:GLN:OE1	1:M:299:TYR:HB3	2.08	0.53
1:K:77:HIS:HB3	1:K:485:LYS:HD2	1.91	0.53
1:K:124:LEU:O	1:K:260:ASN:ND2	2.41	0.53
1:L:77:HIS:HB3	1:L:485:LYS:HD2	1.91	0.53
1:N:166:ILE:HD12	1:N:241:LEU:HD12	1.90	0.53
1:U:90:LEU:HD12	1:U:365:GLN:HE21	1.65	0.53
1:U:90:LEU:CD1	1:U:342:VAL:CG1	2.78	0.53
1:4:124:LEU:O	1:4:260:ASN:ND2	2.40	0.53
1:l:77:HIS:HB3	1:l:485:LYS:HD2	1.91	0.53
1:n:166:ILE:HD12	1:n:241:LEU:HD12	1.90	0.53
1:t:77:HIS:HB3	1:t:485:LYS:HD2	1.92	0.53
1:A:77:HIS:HB3	1:A:485:LYS:HD2	1.91	0.52
1:B:84:GLN:OE1	1:L:299:TYR:HB3	2.09	0.52
1:R:90:LEU:HD12	1:R:342:VAL:HG11	1.91	0.52
1:Z:77:HIS:HB3	1:Z:485:LYS:HD2	1.92	0.52
1:1:166:ILE:HD12	1:1:241:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:90:LEU:HD12	1:6:342:VAL:HG11	1.91	0.52
1:d:299:TYR:HB3	1:e:84:GLN:OE1	2.08	0.52
1:h:124:LEU:O	1:h:260:ASN:ND2	2.40	0.52
1:u:299:TYR:HB3	1:v:84:GLN:OE1	2.08	0.52
1:x:77:HIS:HB3	1:x:485:LYS:HD2	1.92	0.52
1:C:90:LEU:HD12	1:C:342:VAL:HG11	1.92	0.52
1:R:77:HIS:HB3	1:R:485:LYS:HD2	1.91	0.52
1:X:416:PRO:HB3	1:X:425:TYR:CD1	2.45	0.52
1:2:90:LEU:HD12	1:2:342:VAL:HG11	1.92	0.52
1:3:294:ASN:OD1	1:i:320:ASN:HB2	2.08	0.52
1:5:77:HIS:HB3	1:5:485:LYS:HD2	1.92	0.52
1:b:166:ILE:HD12	1:b:241:LEU:HD12	1.90	0.52
1:i:416:PRO:HB3	1:i:425:TYR:CD1	2.45	0.52
1:k:77:HIS:HB3	1:k:485:LYS:HD2	1.91	0.52
1:k:90:LEU:HD12	1:k:342:VAL:HG11	1.92	0.52
1:p:77:HIS:HB3	1:p:485:LYS:HD2	1.91	0.52
1:t:262:ARG:NE	1:u:227:ASN:HD22	2.07	0.52
1:t:299:TYR:HB3	1:u:84:GLN:OE1	2.09	0.52
1:8:77:HIS:HB3	1:8:485:LYS:HD2	1.92	0.52
1:C:77:HIS:HB3	1:C:485:LYS:HD2	1.91	0.52
1:C:90:LEU:HD12	1:C:365:GLN:HE21	1.65	0.52
1:E:416:PRO:HB3	1:E:425:TYR:CD1	2.45	0.52
1:J:299:TYR:HB3	1:L:84:GLN:OE1	2.10	0.52
1:K:227:ASN:HD22	1:8:262:ARG:NE	2.08	0.52
1:M:416:PRO:HB3	1:M:425:TYR:CD1	2.45	0.52
1:Q:416:PRO:HB3	1:Q:425:TYR:CD1	2.45	0.52
1:S:90:LEU:HD12	1:S:342:VAL:HG11	1.92	0.52
1:T:416:PRO:HB3	1:T:425:TYR:CD1	2.45	0.52
1:V:90:LEU:HD12	1:V:342:VAL:HG11	1.92	0.52
1:V:416:PRO:HB3	1:V:425:TYR:CD1	2.45	0.52
1:X:124:LEU:O	1:X:260:ASN:ND2	2.41	0.52
1:Z:262:ARG:NE	1:x:227:ASN:HD22	2.08	0.52
1:3:77:HIS:HB3	1:3:485:LYS:HD2	1.92	0.52
1:a:90:LEU:HD12	1:a:342:VAL:HG11	1.92	0.52
1:b:117:PRO:HB2	1:e:524:PRO:HD3	1.89	0.52
1:g:262:ARG:NE	1:h:227:ASN:HD22	2.08	0.52
1:j:416:PRO:HB3	1:j:425:TYR:CD1	2.45	0.52
1:q:416:PRO:HB3	1:q:425:TYR:CD1	2.45	0.52
1:r:77:HIS:HB3	1:r:485:LYS:HD2	1.91	0.52
1:w:90:LEU:HD12	1:w:342:VAL:HG11	1.92	0.52
1:w:166:ILE:HD12	1:w:241:LEU:HD12	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:262:ARG:NE	1:G:227:ASN:HD22	2.08	0.52
1:B:227:ASN:HD22	1:L:262:ARG:NE	2.07	0.52
1:D:166:ILE:HD12	1:D:241:LEU:HD12	1.90	0.52
1:D:524:PRO:HD3	1:M:117:PRO:HB2	1.89	0.52
1:E:227:ASN:HD22	1:F:262:ARG:NE	2.08	0.52
1:M:90:LEU:HD12	1:M:342:VAL:HG11	1.92	0.52
1:Q:77:HIS:HB3	1:Q:485:LYS:HD2	1.91	0.52
1:X:320:ASN:HB2	1:5:294:ASN:OD1	2.08	0.52
1:1:90:LEU:HD12	1:1:342:VAL:HG11	1.92	0.52
1:2:416:PRO:HB3	1:2:425:TYR:CD1	2.45	0.52
1:4:416:PRO:HB3	1:4:425:TYR:CD1	2.45	0.52
1:a:77:HIS:HB3	1:a:485:LYS:HD2	1.92	0.52
1:a:416:PRO:HB3	1:a:425:TYR:CD1	2.45	0.52
1:b:90:LEU:HD12	1:b:342:VAL:HG11	1.92	0.52
1:b:416:PRO:HB3	1:b:425:TYR:CD1	2.45	0.52
1:e:166:ILE:HD12	1:e:241:LEU:HD12	1.90	0.52
1:g:416:PRO:HB3	1:g:425:TYR:CD1	2.45	0.52
1:h:416:PRO:HB3	1:h:425:TYR:CD1	2.45	0.52
1:i:124:LEU:O	1:i:260:ASN:ND2	2.40	0.52
1:j:90:LEU:HD12	1:j:342:VAL:HG11	1.92	0.52
1:l:90:LEU:HD12	1:l:342:VAL:HG11	1.92	0.52
1:n:227:ASN:HD22	1:p:262:ARG:NE	2.08	0.52
1:r:416:PRO:HB3	1:r:425:TYR:CD1	2.45	0.52
1:t:90:LEU:HD12	1:t:342:VAL:HG11	1.92	0.52
1:u:77:HIS:HB3	1:u:485:LYS:HD2	1.91	0.52
1:z:77:HIS:HB3	1:z:485:LYS:HD2	1.91	0.52
1:B:77:HIS:HB3	1:B:485:LYS:HD2	1.91	0.52
1:B:320:ASN:HB2	1:L:294:ASN:OD1	2.09	0.52
1:C:416:PRO:HB3	1:C:425:TYR:CD1	2.45	0.52
1:F:416:PRO:HB3	1:F:425:TYR:CD1	2.45	0.52
1:I:90:LEU:HD12	1:I:342:VAL:HG11	1.92	0.52
1:L:90:LEU:HD12	1:L:342:VAL:HG11	1.92	0.52
1:N:90:LEU:HD13	1:N:342:VAL:HG12	1.91	0.52
1:T:262:ARG:NE	1:4:227:ASN:HD22	2.08	0.52
1:W:77:HIS:HB3	1:W:485:LYS:HD2	1.91	0.52
1:1:416:PRO:HB3	1:1:425:TYR:CD1	2.45	0.52
1:c:227:ASN:HD22	1:e:262:ARG:NE	2.08	0.52
1:e:77:HIS:HB3	1:e:485:LYS:HD2	1.91	0.52
1:e:416:PRO:HB3	1:e:425:TYR:CD1	2.45	0.52
1:q:227:ASN:HD22	1:s:262:ARG:NE	2.08	0.52
1:w:416:PRO:HB3	1:w:425:TYR:CD1	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:86:THR:OG1	1:8:324:ASP:OD2	2.27	0.52
1:B:416:PRO:HB3	1:B:425:TYR:CD1	2.45	0.52
1:D:77:HIS:HB3	1:D:485:LYS:HD2	1.91	0.52
1:D:262:ARG:NE	1:N:227:ASN:HD22	2.08	0.52
1:D:416:PRO:HB3	1:D:425:TYR:CD1	2.45	0.52
1:G:262:ARG:NE	1:I:227:ASN:HD22	2.08	0.52
1:L:86:THR:OG1	1:L:324:ASP:OD2	2.27	0.52
1:U:416:PRO:HB3	1:U:425:TYR:CD1	2.45	0.52
1:W:416:PRO:HB3	1:W:425:TYR:CD1	2.45	0.52
1:2:90:LEU:HD13	1:2:342:VAL:HG12	1.91	0.52
1:6:416:PRO:HB3	1:6:425:TYR:CD1	2.45	0.52
1:a:90:LEU:HD12	1:a:365:GLN:HE21	1.65	0.52
1:c:90:LEU:HD13	1:c:342:VAL:HG12	1.91	0.52
1:d:262:ARG:NE	1:e:227:ASN:HD22	2.08	0.52
1:f:416:PRO:HB3	1:f:425:TYR:CD1	2.45	0.52
1:g:77:HIS:HB3	1:g:485:LYS:HD2	1.92	0.52
1:h:90:LEU:HD12	1:h:342:VAL:HG11	1.92	0.52
1:o:90:LEU:HD12	1:o:342:VAL:HG11	1.92	0.52
1:s:416:PRO:HB3	1:s:425:TYR:CD1	2.45	0.52
1:u:262:ARG:NE	1:v:227:ASN:HD22	2.08	0.52
1:u:416:PRO:HB3	1:u:425:TYR:CD1	2.45	0.52
1:D:54:THR:HG21	1:D:119:ASP:CG	2.35	0.52
1:D:227:ASN:HD22	1:P:262:ARG:NE	2.08	0.52
1:F:77:HIS:HB3	1:F:485:LYS:HD2	1.92	0.52
1:O:416:PRO:HB3	1:O:425:TYR:CD1	2.45	0.52
1:T:77:HIS:HB3	1:T:485:LYS:HD2	1.92	0.52
1:Z:416:PRO:HB3	1:Z:425:TYR:CD1	2.45	0.52
1:6:90:LEU:HD13	1:6:342:VAL:HG12	1.91	0.52
1:e:54:THR:HG21	1:e:119:ASP:CG	2.35	0.52
1:m:416:PRO:HB3	1:m:425:TYR:CD1	2.45	0.52
1:n:262:ARG:NE	1:o:227:ASN:HD22	2.08	0.52
1:z:416:PRO:HB3	1:z:425:TYR:CD1	2.45	0.52
1:8:416:PRO:HB3	1:8:425:TYR:CD1	2.45	0.52
1:J:416:PRO:HB3	1:J:425:TYR:CD1	2.45	0.52
1:K:54:THR:HG21	1:K:119:ASP:CG	2.35	0.52
1:K:416:PRO:HB3	1:K:425:TYR:CD1	2.45	0.52
1:R:416:PRO:HB3	1:R:425:TYR:CD1	2.45	0.52
1:S:54:THR:HG21	1:S:119:ASP:CG	2.35	0.52
1:X:90:LEU:HD12	1:X:342:VAL:HG11	1.92	0.52
1:4:90:LEU:HD12	1:4:342:VAL:HG11	1.92	0.52
1:i:90:LEU:HD12	1:i:342:VAL:HG11	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:90:LEU:HD12	1:i:365:GLN:HE21	1.65	0.52
1:s:77:HIS:HB3	1:s:485:LYS:HD2	1.92	0.52
1:t:227:ASN:HD22	1:v:262:ARG:NE	2.07	0.52
1:t:294:ASN:OD1	1:u:320:ASN:HB2	2.09	0.52
1:v:86:THR:OG1	1:v:324:ASP:OD2	2.27	0.52
1:x:54:THR:HG21	1:x:119:ASP:CG	2.35	0.52
1:A:90:LEU:HD12	1:A:342:VAL:HG11	1.92	0.52
1:A:90:LEU:CD1	1:A:342:VAL:CG1	2.78	0.52
1:A:124:LEU:O	1:A:260:ASN:ND2	2.40	0.52
1:B:124:LEU:O	1:B:260:ASN:ND2	2.41	0.52
1:E:54:THR:HG21	1:E:119:ASP:CG	2.35	0.52
1:H:262:ARG:NE	1:W:227:ASN:HD22	2.08	0.52
1:H:416:PRO:HB3	1:H:425:TYR:CD1	2.45	0.52
1:J:86:THR:OG1	1:J:324:ASP:OD2	2.27	0.52
1:L:54:THR:HG21	1:L:119:ASP:CG	2.35	0.52
1:M:77:HIS:HB3	1:M:485:LYS:HD2	1.92	0.52
1:N:54:THR:HG21	1:N:119:ASP:CG	2.35	0.52
1:O:227:ASN:HD22	1:h:262:ARG:NE	2.08	0.52
1:O:279:ARG:HD2	1:g:181:TRP:CD1	2.43	0.52
1:P:416:PRO:HB3	1:P:425:TYR:CD1	2.45	0.52
1:T:181:TRP:CD1	1:f:279:ARG:HD2	2.43	0.52
1:Y:54:THR:HG21	1:Y:119:ASP:CG	2.35	0.52
1:Z:54:THR:HG21	1:Z:119:ASP:CG	2.35	0.52
1:2:54:THR:HG21	1:2:119:ASP:CG	2.35	0.52
1:4:262:ARG:NE	1:f:227:ASN:HD22	2.08	0.52
1:6:54:THR:HG21	1:6:119:ASP:CG	2.35	0.52
1:c:54:THR:HG21	1:c:119:ASP:CG	2.35	0.52
1:l:54:THR:HG21	1:l:119:ASP:CG	2.35	0.52
1:t:86:THR:OG1	1:t:324:ASP:OD2	2.27	0.52
1:t:416:PRO:HB3	1:t:425:TYR:CD1	2.45	0.52
1:v:416:PRO:HB3	1:v:425:TYR:CD1	2.45	0.52
1:y:416:PRO:HB3	1:y:425:TYR:CD1	2.45	0.52
1:7:54:THR:HG21	1:7:119:ASP:CG	2.35	0.52
1:8:54:THR:HG21	1:8:119:ASP:CG	2.35	0.52
1:I:90:LEU:HD13	1:I:342:VAL:HG12	1.91	0.52
1:L:416:PRO:HB3	1:L:425:TYR:CD1	2.45	0.52
1:N:77:HIS:HB3	1:N:485:LYS:HD2	1.91	0.52
1:S:416:PRO:HB3	1:S:425:TYR:CD1	2.45	0.52
1:U:77:HIS:HB3	1:U:485:LYS:HD2	1.92	0.52
1:U:86:THR:OG1	1:U:324:ASP:OD2	2.27	0.52
1:2:77:HIS:HB3	1:2:485:LYS:HD2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:77:HIS:HB3	1:b:485:LYS:HD2	1.92	0.52
1:c:77:HIS:HB3	1:c:485:LYS:HD2	1.91	0.52
1:d:54:THR:HG21	1:d:119:ASP:CG	2.35	0.52
1:d:416:PRO:HB3	1:d:425:TYR:CD1	2.45	0.52
1:f:54:THR:HG21	1:f:119:ASP:CG	2.35	0.52
1:k:416:PRO:HB3	1:k:425:TYR:CD1	2.45	0.52
1:l:416:PRO:HB3	1:l:425:TYR:CD1	2.45	0.52
1:m:77:HIS:HB3	1:m:485:LYS:HD2	1.92	0.52
1:p:90:LEU:HD12	1:p:342:VAL:HG11	1.92	0.52
1:q:54:THR:HG21	1:q:119:ASP:CG	2.35	0.52
1:t:54:THR:HG21	1:t:119:ASP:CG	2.35	0.52
1:x:416:PRO:HB3	1:x:425:TYR:CD1	2.45	0.52
1:y:262:ARG:NE	1:z:227:ASN:HD22	2.08	0.52
1:7:416:PRO:HB3	1:7:425:TYR:CD1	2.45	0.52
1:8:90:LEU:HD12	1:8:342:VAL:HG11	1.92	0.52
1:A:54:THR:HG21	1:A:119:ASP:CG	2.35	0.51
1:A:181:TRP:HH2	1:A:448:ASN:ND2	2.08	0.51
1:C:181:TRP:HH2	1:C:448:ASN:ND2	2.08	0.51
1:M:54:THR:HG21	1:M:119:ASP:CG	2.35	0.51
1:O:54:THR:HG21	1:O:119:ASP:CG	2.35	0.51
1:O:77:HIS:HB3	1:O:485:LYS:HD2	1.92	0.51
1:U:181:TRP:HH2	1:U:448:ASN:ND2	2.09	0.51
1:W:262:ARG:NE	1:Y:227:ASN:HD22	2.08	0.51
1:X:77:HIS:HB3	1:X:485:LYS:HD2	1.92	0.51
1:Y:416:PRO:HB3	1:Y:425:TYR:CD1	2.45	0.51
1:Z:90:LEU:HD12	1:Z:342:VAL:HG11	1.92	0.51
1:3:416:PRO:HB3	1:3:425:TYR:CD1	2.45	0.51
1:5:416:PRO:HB3	1:5:425:TYR:CD1	2.45	0.51
1:6:77:HIS:HB3	1:6:485:LYS:HD2	1.92	0.51
1:b:54:THR:HG21	1:b:119:ASP:CG	2.35	0.51
1:k:54:THR:HG21	1:k:119:ASP:CG	2.35	0.51
1:m:181:TRP:HH2	1:m:448:ASN:ND2	2.09	0.51
1:o:90:LEU:HD13	1:o:342:VAL:HG12	1.91	0.51
1:p:54:THR:HG21	1:p:119:ASP:CG	2.35	0.51
1:r:90:LEU:HD13	1:r:342:VAL:HG12	1.91	0.51
1:t:90:LEU:HD13	1:t:342:VAL:HG12	1.91	0.51
1:u:124:LEU:O	1:u:260:ASN:ND2	2.41	0.51
1:w:227:ASN:HD22	1:x:262:ARG:NE	2.08	0.51
1:x:181:TRP:HH2	1:x:448:ASN:ND2	2.08	0.51
1:z:90:LEU:HD12	1:z:342:VAL:HG11	1.92	0.51
1:A:432:TRP:CD2	1:I:432:TRP:HB2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:227:ASN:HD22	1:Q:262:ARG:NE	2.08	0.51
1:H:77:HIS:HB3	1:H:485:LYS:HD2	1.91	0.51
1:H:90:LEU:HD12	1:H:342:VAL:HG11	1.92	0.51
1:H:90:LEU:CD1	1:H:342:VAL:CG1	2.78	0.51
1:K:181:TRP:HH2	1:K:448:ASN:ND2	2.08	0.51
1:P:54:THR:HG21	1:P:119:ASP:CG	2.35	0.51
1:Q:90:LEU:HD13	1:Q:342:VAL:HG12	1.91	0.51
1:R:54:THR:HG21	1:R:119:ASP:CG	2.35	0.51
1:R:262:ARG:NE	1:S:227:ASN:HD22	2.08	0.51
1:U:54:THR:HG21	1:U:119:ASP:CG	2.35	0.51
1:V:262:ARG:NE	1:5:227:ASN:HD22	2.08	0.51
1:W:90:LEU:HD12	1:W:342:VAL:HG11	1.92	0.51
1:e:90:LEU:HD12	1:e:342:VAL:HG11	1.92	0.51
1:f:77:HIS:HB3	1:f:485:LYS:HD2	1.92	0.51
1:f:86:THR:OG1	1:f:324:ASP:OD2	2.27	0.51
1:m:86:THR:OG1	1:m:324:ASP:OD2	2.27	0.51
1:n:416:PRO:HB3	1:n:425:TYR:CD1	2.45	0.51
1:o:432:TRP:HB2	1:p:432:TRP:CD2	2.46	0.51
1:p:181:TRP:HH2	1:p:448:ASN:ND2	2.08	0.51
1:v:77:HIS:HB3	1:v:485:LYS:HD2	1.91	0.51
1:D:90:LEU:HD12	1:D:342:VAL:HG11	1.92	0.51
1:G:416:PRO:HB3	1:G:425:TYR:CD1	2.45	0.51
1:J:267:PRO:HD3	1:J:408:THR:HG22	1.93	0.51
1:K:262:ARG:NE	1:1:227:ASN:HD22	2.08	0.51
1:K:432:TRP:HB2	1:1:432:TRP:CD2	2.46	0.51
1:K:432:TRP:CD2	1:8:432:TRP:HB2	2.46	0.51
1:L:90:LEU:HD13	1:L:342:VAL:HG12	1.91	0.51
1:L:536:HIS:CE1	1:2:222:SER:HB2	2.46	0.51
1:Q:54:THR:HG21	1:Q:119:ASP:CG	2.35	0.51
1:Q:90:LEU:HD13	1:Q:342:VAL:HG11	1.82	0.51
1:X:90:LEU:HD12	1:X:365:GLN:HE21	1.65	0.51
1:Y:77:HIS:HB3	1:Y:485:LYS:HD2	1.91	0.51
1:Y:181:TRP:HH2	1:Y:448:ASN:ND2	2.08	0.51
1:Z:432:TRP:HB2	1:x:432:TRP:CD2	2.46	0.51
1:3:227:ASN:HD22	1:j:262:ARG:NE	2.08	0.51
1:a:181:TRP:HH2	1:a:448:ASN:ND2	2.08	0.51
1:c:90:LEU:HD12	1:c:342:VAL:HG11	1.92	0.51
1:d:90:LEU:HD12	1:d:342:VAL:HG11	1.92	0.51
1:i:77:HIS:HB3	1:i:485:LYS:HD2	1.92	0.51
1:k:262:ARG:NE	1:l:227:ASN:HD22	2.08	0.51
1:m:54:THR:HG21	1:m:119:ASP:CG	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:90:LEU:CD1	1:p:342:VAL:CG1	2.78	0.51
1:r:54:THR:HG21	1:r:119:ASP:CG	2.35	0.51
1:r:262:ARG:NE	1:s:227:ASN:HD22	2.08	0.51
1:v:90:LEU:HD12	1:v:342:VAL:HG11	1.92	0.51
1:w:432:TRP:CD2	1:x:432:TRP:HB2	2.46	0.51
1:z:262:ARG:NE	1:7:227:ASN:HD22	2.08	0.51
1:7:77:HIS:HB3	1:7:485:LYS:HD2	1.91	0.51
1:F:432:TRP:CD2	1:Q:432:TRP:HB2	2.46	0.51
1:H:432:TRP:CD2	1:Y:432:TRP:HB2	2.46	0.51
1:I:54:THR:HG21	1:I:119:ASP:CG	2.35	0.51
1:J:536:HIS:CE1	1:1:222:SER:HB2	2.45	0.51
1:P:267:PRO:HD3	1:P:408:THR:HG22	1.93	0.51
1:V:54:THR:HG21	1:V:119:ASP:CG	2.35	0.51
1:X:227:ASN:HD22	1:5:262:ARG:NE	2.08	0.51
1:Z:432:TRP:CD2	1:w:432:TRP:HB2	2.46	0.51
1:1:432:TRP:HB2	1:8:432:TRP:CD2	2.46	0.51
1:3:222:SER:HB2	1:m:536:HIS:CE1	2.46	0.51
1:3:262:ARG:NE	1:i:227:ASN:HD22	2.08	0.51
1:6:222:SER:HB2	1:t:536:HIS:CE1	2.46	0.51
1:e:86:THR:OG1	1:e:324:ASP:OD2	2.27	0.51
1:h:54:THR:HG21	1:h:119:ASP:CG	2.35	0.51
1:k:320:ASN:HB2	1:m:294:ASN:OD1	2.09	0.51
1:o:267:PRO:HD3	1:o:408:THR:HG22	1.93	0.51
1:s:54:THR:HG21	1:s:119:ASP:CG	2.35	0.51
1:v:267:PRO:HD3	1:v:408:THR:HG22	1.93	0.51
1:w:54:THR:HG21	1:w:119:ASP:CG	2.35	0.51
1:y:77:HIS:HB3	1:y:485:LYS:HD2	1.91	0.51
1:y:432:TRP:CD2	1:7:432:TRP:HB2	2.46	0.51
1:7:181:TRP:HH2	1:7:448:ASN:ND2	2.08	0.51
1:8:90:LEU:HD13	1:8:342:VAL:HG12	1.91	0.51
1:B:90:LEU:HD12	1:B:342:VAL:HG11	1.91	0.51
1:E:90:LEU:HD12	1:E:342:VAL:HG11	1.92	0.51
1:E:432:TRP:HB2	1:Q:432:TRP:CD2	2.46	0.51
1:F:54:THR:HG21	1:F:119:ASP:CG	2.35	0.51
1:H:227:ASN:HD22	1:Y:262:ARG:NE	2.08	0.51
1:I:86:THR:OG1	1:I:324:ASP:OD2	2.27	0.51
1:J:77:HIS:HB3	1:J:485:LYS:HD2	1.92	0.51
1:N:90:LEU:HD12	1:N:342:VAL:HG11	1.92	0.51
1:O:262:ARG:NE	1:g:227:ASN:HD22	2.08	0.51
1:P:90:LEU:HD12	1:P:342:VAL:HG11	1.92	0.51
1:U:536:HIS:CE1	1:5:222:SER:HB2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:90:LEU:HD12	1:V:365:GLN:HE21	1.65	0.51
1:V:181:TRP:HH2	1:V:448:ASN:ND2	2.08	0.51
1:Y:86:THR:OG1	1:Y:324:ASP:OD2	2.27	0.51
1:Y:90:LEU:HD12	1:Y:342:VAL:HG11	1.92	0.51
1:1:54:THR:HG21	1:1:119:ASP:CG	2.35	0.51
1:1:77:HIS:HB3	1:1:485:LYS:HD2	1.91	0.51
1:4:54:THR:HG21	1:4:119:ASP:CG	2.35	0.51
1:4:90:LEU:HD13	1:4:342:VAL:HG12	1.91	0.51
1:a:86:THR:OG1	1:a:324:ASP:OD2	2.27	0.51
1:d:267:PRO:HD3	1:d:408:THR:HG22	1.93	0.51
1:j:54:THR:HG21	1:j:119:ASP:CG	2.35	0.51
1:j:181:TRP:HH2	1:j:448:ASN:ND2	2.08	0.51
1:l:262:ARG:NE	1:m:227:ASN:HD22	2.07	0.51
1:o:86:THR:OG1	1:o:324:ASP:OD2	2.27	0.51
1:q:432:TRP:HB2	1:r:432:TRP:CD2	2.46	0.51
1:r:432:TRP:HB2	1:s:432:TRP:CD2	2.46	0.51
1:u:54:THR:HG21	1:u:119:ASP:CG	2.35	0.51
1:u:90:LEU:HD12	1:u:342:VAL:HG11	1.91	0.51
1:v:54:THR:HG21	1:v:119:ASP:CG	2.35	0.51
1:w:267:PRO:HD3	1:w:408:THR:HG22	1.93	0.51
1:y:227:ASN:HD22	1:7:262:ARG:NE	2.08	0.51
1:7:86:THR:OG1	1:7:324:ASP:OD2	2.27	0.51
1:7:90:LEU:HD12	1:7:342:VAL:HG11	1.92	0.51
1:A:416:PRO:HB3	1:A:425:TYR:CD1	2.45	0.51
1:B:54:THR:HG21	1:B:119:ASP:CG	2.35	0.51
1:D:86:THR:OG1	1:D:324:ASP:OD2	2.27	0.51
1:E:262:ARG:NE	1:Q:227:ASN:HD22	2.08	0.51
1:I:267:PRO:HD3	1:I:408:THR:HG22	1.93	0.51
1:J:54:THR:HG21	1:J:119:ASP:CG	2.35	0.51
1:N:86:THR:OG1	1:N:324:ASP:OD2	2.27	0.51
1:R:320:ASN:HB2	1:U:294:ASN:OD1	2.09	0.51
1:R:432:TRP:HB2	1:S:432:TRP:CD2	2.46	0.51
1:W:54:THR:HG21	1:W:119:ASP:CG	2.35	0.51
1:X:54:THR:HG21	1:X:119:ASP:CG	2.35	0.51
1:Z:90:LEU:HD13	1:Z:342:VAL:HG12	1.91	0.51
1:Z:227:ASN:HD22	1:w:262:ARG:NE	2.08	0.51
1:1:181:TRP:HH2	1:1:448:ASN:ND2	2.08	0.51
1:1:267:PRO:HD3	1:1:408:THR:HG22	1.93	0.51
1:c:262:ARG:NE	1:d:227:ASN:HD22	2.08	0.51
1:g:90:LEU:HD12	1:g:342:VAL:HG11	1.91	0.51
1:i:262:ARG:NE	1:j:227:ASN:HD22	2.08	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:432:TRP:CD2	1:m:432:TRP:HB2	2.45	0.51
1:k:432:TRP:HB2	1:l:432:TRP:CD2	2.46	0.51
1:n:432:TRP:CD2	1:p:432:TRP:HB2	2.46	0.51
1:o:54:THR:HG21	1:o:119:ASP:CG	2.35	0.51
1:q:262:ARG:NE	1:r:227:ASN:HD22	2.08	0.51
1:w:77:HIS:HB3	1:w:485:LYS:HD2	1.91	0.51
1:z:54:THR:HG21	1:z:119:ASP:CG	2.35	0.51
1:B:432:TRP:CD2	1:L:432:TRP:HB2	2.45	0.51
1:C:86:THR:OG1	1:C:324:ASP:OD2	2.27	0.51
1:G:432:TRP:HB2	1:I:432:TRP:CD2	2.46	0.51
1:H:267:PRO:HD3	1:H:408:THR:HG22	1.93	0.51
1:I:416:PRO:HB3	1:I:425:TYR:CD1	2.45	0.51
1:J:291:TYR:CE2	1:L:383:PRO:HG3	2.46	0.51
1:N:262:ARG:NE	1:P:227:ASN:HD22	2.08	0.51
1:N:416:PRO:HB3	1:N:425:TYR:CD1	2.45	0.51
1:Q:267:PRO:HD3	1:Q:408:THR:HG22	1.93	0.51
1:R:432:TRP:CD2	1:U:432:TRP:HB2	2.45	0.51
1:S:262:ARG:NE	1:U:227:ASN:HD22	2.07	0.51
1:T:227:ASN:HD22	1:f:262:ARG:NE	2.08	0.51
1:V:77:HIS:HB3	1:V:485:LYS:HD2	1.91	0.51
1:V:227:ASN:HD22	1:X:262:ARG:NE	2.08	0.51
1:1:262:ARG:NE	1:8:227:ASN:HD22	2.08	0.51
1:a:54:THR:HG21	1:a:119:ASP:CG	2.35	0.51
1:h:90:LEU:HD13	1:h:342:VAL:HG12	1.91	0.51
1:i:54:THR:HG21	1:i:119:ASP:CG	2.35	0.51
1:j:77:HIS:HB3	1:j:485:LYS:HD2	1.92	0.51
1:p:416:PRO:HB3	1:p:425:TYR:CD1	2.45	0.51
1:q:90:LEU:HD12	1:q:342:VAL:HG11	1.92	0.51
1:r:90:LEU:HD13	1:r:342:VAL:HG11	1.82	0.51
1:t:432:TRP:HB2	1:u:432:TRP:CD2	2.45	0.51
1:y:54:THR:HG21	1:y:119:ASP:CG	2.35	0.51
1:y:267:PRO:HD3	1:y:408:THR:HG22	1.93	0.51
1:A:432:TRP:HB2	1:G:432:TRP:CD2	2.46	0.51
1:B:181:TRP:HH2	1:B:448:ASN:ND2	2.08	0.51
1:C:262:ARG:NE	1:2:227:ASN:HD22	2.08	0.51
1:H:54:THR:HG21	1:H:119:ASP:CG	2.35	0.51
1:O:267:PRO:HD3	1:O:408:THR:HG22	1.93	0.51
1:T:90:LEU:HD12	1:T:342:VAL:HG11	1.91	0.51
1:U:90:LEU:HD12	1:U:342:VAL:HG11	1.92	0.51
1:V:337:ARG:NH1	1:X:379:ARG:O	2.43	0.51
1:5:90:LEU:HD12	1:5:342:VAL:HG11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:416:PRO:HB3	1:c:425:TYR:CD1	2.45	0.51
1:f:267:PRO:HD3	1:f:408:THR:HG22	1.93	0.51
1:g:54:THR:HG21	1:g:119:ASP:CG	2.35	0.51
1:o:77:HIS:HB3	1:o:485:LYS:HD2	1.91	0.51
1:o:262:ARG:NE	1:p:227:ASN:HD22	2.08	0.51
1:o:416:PRO:HB3	1:o:425:TYR:CD1	2.45	0.51
1:r:267:PRO:HD3	1:r:408:THR:HG22	1.93	0.51
1:u:432:TRP:HB2	1:v:432:TRP:CD2	2.46	0.51
1:8:181:TRP:HH2	1:8:448:ASN:ND2	2.08	0.51
1:F:267:PRO:HD3	1:F:408:THR:HG22	1.93	0.51
1:I:77:HIS:HB3	1:I:485:LYS:HD2	1.91	0.51
1:L:181:TRP:HH2	1:L:448:ASN:ND2	2.09	0.51
1:M:267:PRO:HD3	1:M:408:THR:HG22	1.93	0.51
1:W:90:LEU:HD13	1:W:342:VAL:HG12	1.91	0.51
1:Z:181:TRP:HH2	1:Z:448:ASN:ND2	2.08	0.51
1:4:77:HIS:HB3	1:4:485:LYS:HD2	1.91	0.51
1:a:227:ASN:HD22	1:b:262:ARG:NE	2.08	0.51
1:b:267:PRO:HD3	1:b:408:THR:HG22	1.93	0.51
1:c:86:THR:OG1	1:c:324:ASP:OD2	2.27	0.51
1:d:181:TRP:HH2	1:d:448:ASN:ND2	2.08	0.51
1:h:77:HIS:HB3	1:h:485:LYS:HD2	1.91	0.51
1:m:90:LEU:HD12	1:m:342:VAL:HG11	1.92	0.51
1:n:77:HIS:HB3	1:n:485:LYS:HD2	1.92	0.51
1:n:267:PRO:HD3	1:n:408:THR:HG22	1.93	0.51
1:n:432:TRP:HB2	1:o:432:TRP:CD2	2.46	0.51
1:A:227:ASN:HD22	1:I:262:ARG:NE	2.08	0.51
1:C:227:ASN:HD22	1:M:262:ARG:NE	2.08	0.51
1:F:181:TRP:HH2	1:F:448:ASN:ND2	2.08	0.51
1:G:54:THR:HG21	1:G:119:ASP:CG	2.35	0.51
1:G:77:HIS:HB3	1:G:485:LYS:HD2	1.92	0.51
1:G:267:PRO:HD3	1:G:408:THR:HG22	1.93	0.51
1:O:90:LEU:HD12	1:O:342:VAL:HG11	1.92	0.51
1:P:181:TRP:HH2	1:P:448:ASN:ND2	2.08	0.51
1:T:54:THR:HG21	1:T:119:ASP:CG	2.35	0.51
1:X:181:TRP:HH2	1:X:448:ASN:ND2	2.08	0.51
1:Z:267:PRO:HD3	1:Z:408:THR:HG22	1.93	0.51
1:3:90:LEU:HD12	1:3:342:VAL:HG11	1.92	0.51
1:6:227:ASN:HD22	1:a:262:ARG:NE	2.08	0.51
1:a:432:TRP:CD2	1:b:432:TRP:HB2	2.46	0.51
1:f:90:LEU:HD12	1:f:342:VAL:HG11	1.92	0.51
1:g:379:ARG:O	1:h:337:ARG:NH1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:181:TRP:HH2	1:i:448:ASN:ND2	2.08	0.51
1:i:379:ARG:O	1:j:337:ARG:NH1	2.43	0.51
1:s:181:TRP:HH2	1:s:448:ASN:ND2	2.08	0.51
1:s:267:PRO:HD3	1:s:408:THR:HG22	1.93	0.51
1:y:432:TRP:HB2	1:z:432:TRP:CD2	2.46	0.51
1:z:432:TRP:HB2	1:7:432:TRP:CD2	2.46	0.51
1:A:543:GLU:HG2	1:A:544:ASN:ND2	2.27	0.50
1:C:54:THR:HG21	1:C:119:ASP:CG	2.35	0.50
1:C:432:TRP:CD2	1:M:432:TRP:HB2	2.46	0.50
1:F:90:LEU:HD13	1:F:342:VAL:HG12	1.91	0.50
1:G:90:LEU:HD12	1:G:342:VAL:HG11	1.91	0.50
1:H:432:TRP:HB2	1:W:432:TRP:CD2	2.46	0.50
1:M:432:TRP:CD2	1:2:432:TRP:HB2	2.46	0.50
1:O:432:TRP:HB2	1:g:432:TRP:CD2	2.46	0.50
1:S:181:TRP:HH2	1:S:448:ASN:ND2	2.08	0.50
1:S:267:PRO:HD3	1:S:408:THR:HG22	1.93	0.50
1:V:432:TRP:HB2	1:5:432:TRP:CD2	2.46	0.50
1:W:432:TRP:HB2	1:Y:432:TRP:CD2	2.46	0.50
1:3:54:THR:HG21	1:3:119:ASP:CG	2.35	0.50
1:3:432:TRP:CD2	1:j:432:TRP:HB2	2.46	0.50
1:5:54:THR:HG21	1:5:119:ASP:CG	2.35	0.50
1:6:262:ARG:NE	1:b:227:ASN:HD22	2.08	0.50
1:g:432:TRP:HB2	1:h:432:TRP:CD2	2.46	0.50
1:j:90:LEU:HD12	1:j:365:GLN:HE21	1.65	0.50
1:l:267:PRO:HD3	1:l:408:THR:HG22	1.93	0.50
1:p:543:GLU:HG2	1:p:544:ASN:ND2	2.27	0.50
1:t:181:TRP:HH2	1:t:448:ASN:ND2	2.09	0.50
1:t:267:PRO:HD3	1:t:408:THR:HG22	1.93	0.50
1:z:90:LEU:HD13	1:z:342:VAL:HG12	1.91	0.50
1:8:267:PRO:HD3	1:8:408:THR:HG22	1.93	0.50
1:B:379:ARG:O	1:J:337:ARG:NH1	2.40	0.50
1:F:536:HIS:CE1	1:G:222:SER:HB2	2.47	0.50
1:H:543:GLU:HG2	1:H:544:ASN:ND2	2.27	0.50
1:L:188:GLU:HG3	1:L:446:ARG:HH22	1.77	0.50
1:L:267:PRO:HD3	1:L:408:THR:HG22	1.93	0.50
1:N:181:TRP:HH2	1:N:448:ASN:ND2	2.08	0.50
1:Q:543:GLU:HG2	1:Q:544:ASN:ND2	2.27	0.50
1:T:432:TRP:CD2	1:f:432:TRP:HB2	2.46	0.50
1:T:543:GLU:HG2	1:T:544:ASN:ND2	2.27	0.50
1:4:267:PRO:HD3	1:4:408:THR:HG22	1.93	0.50
1:6:432:TRP:HB2	1:b:432:TRP:CD2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:181:TRP:HH2	1:b:448:ASN:ND2	2.08	0.50
1:d:188:GLU:HG3	1:d:446:ARG:HH22	1.77	0.50
1:h:267:PRO:HD3	1:h:408:THR:HG22	1.93	0.50
1:j:86:THR:OG1	1:j:324:ASP:OD2	2.27	0.50
1:n:90:LEU:HD12	1:n:342:VAL:HG11	1.92	0.50
1:n:222:SER:HB2	1:s:536:HIS:CE1	2.47	0.50
1:p:188:GLU:HG3	1:p:446:ARG:HH22	1.77	0.50
1:r:543:GLU:HG2	1:r:544:ASN:ND2	2.27	0.50
1:t:188:GLU:HG3	1:t:446:ARG:HH22	1.77	0.50
1:y:543:GLU:HG2	1:y:544:ASN:ND2	2.27	0.50
1:A:188:GLU:HG3	1:A:446:ARG:HH22	1.77	0.50
1:D:432:TRP:HB2	1:N:432:TRP:CD2	2.46	0.50
1:P:188:GLU:HG3	1:P:446:ARG:HH22	1.77	0.50
1:T:90:LEU:HD12	1:T:365:GLN:HE21	1.65	0.50
1:T:432:TRP:HB2	1:4:432:TRP:CD2	2.46	0.50
1:Y:543:GLU:HG2	1:Y:544:ASN:ND2	2.27	0.50
1:3:181:TRP:HH2	1:3:448:ASN:ND2	2.08	0.50
1:4:543:GLU:HG2	1:4:544:ASN:ND2	2.27	0.50
1:5:181:TRP:HH2	1:5:448:ASN:ND2	2.08	0.50
1:c:181:TRP:HH2	1:c:448:ASN:ND2	2.08	0.50
1:g:267:PRO:HD3	1:g:408:THR:HG22	1.93	0.50
1:g:543:GLU:HG2	1:g:544:ASN:ND2	2.27	0.50
1:k:267:PRO:HD3	1:k:408:THR:HG22	1.93	0.50
1:l:181:TRP:HH2	1:l:448:ASN:ND2	2.08	0.50
1:s:90:LEU:HD13	1:s:342:VAL:HG12	1.91	0.50
1:v:543:GLU:HG2	1:v:544:ASN:ND2	2.27	0.50
1:7:543:GLU:HG2	1:7:544:ASN:ND2	2.27	0.50
1:D:222:SER:HB2	1:E:536:HIS:CE1	2.47	0.50
1:D:337:ARG:NH1	1:P:379:ARG:O	2.43	0.50
1:D:432:TRP:CD2	1:P:432:TRP:HB2	2.46	0.50
1:E:267:PRO:HD3	1:E:408:THR:HG22	1.93	0.50
1:J:90:LEU:HD13	1:J:342:VAL:HG12	1.91	0.50
1:J:294:ASN:OD1	1:L:320:ASN:HB2	2.10	0.50
1:J:379:ARG:O	1:L:337:ARG:NH1	2.40	0.50
1:K:222:SER:HB2	1:7:536:HIS:CE1	2.47	0.50
1:P:543:GLU:HG2	1:P:544:ASN:ND2	2.27	0.50
1:R:267:PRO:HD3	1:R:408:THR:HG22	1.93	0.50
1:T:267:PRO:HD3	1:T:408:THR:HG22	1.93	0.50
1:V:543:GLU:HG2	1:V:544:ASN:ND2	2.27	0.50
1:X:543:GLU:HG2	1:X:544:ASN:ND2	2.27	0.50
1:Y:536:HIS:CE1	1:x:222:SER:HB2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:267:PRO:HD3	1:6:408:THR:HG22	1.93	0.50
1:c:337:ARG:NH1	1:e:379:ARG:O	2.43	0.50
1:c:432:TRP:CD2	1:e:432:TRP:HB2	2.46	0.50
1:d:543:GLU:HG2	1:d:544:ASN:ND2	2.27	0.50
1:h:543:GLU:HG2	1:h:544:ASN:ND2	2.27	0.50
1:i:267:PRO:HD3	1:i:408:THR:HG22	1.93	0.50
1:i:543:GLU:HG2	1:i:544:ASN:ND2	2.27	0.50
1:j:543:GLU:HG2	1:j:544:ASN:ND2	2.27	0.50
1:n:54:THR:HG21	1:n:119:ASP:CG	2.35	0.50
1:o:536:HIS:CE1	1:v:222:SER:HB2	2.47	0.50
1:p:267:PRO:HD3	1:p:408:THR:HG22	1.93	0.50
1:p:536:HIS:CE1	1:q:222:SER:HB2	2.47	0.50
1:q:77:HIS:HB3	1:q:485:LYS:HD2	1.92	0.50
1:r:90:LEU:HD12	1:r:342:VAL:HG11	1.91	0.50
1:v:188:GLU:HG3	1:v:446:ARG:HH22	1.77	0.50
1:w:543:GLU:HG2	1:w:544:ASN:ND2	2.27	0.50
1:z:543:GLU:HG2	1:z:544:ASN:ND2	2.27	0.50
1:8:128:LYS:O	1:8:260:ASN:N	2.37	0.50
1:A:267:PRO:HD3	1:A:408:THR:HG22	1.93	0.50
1:A:536:HIS:CE1	1:E:222:SER:HB2	2.47	0.50
1:C:188:GLU:HG3	1:C:446:ARG:HH22	1.77	0.50
1:D:543:GLU:HG2	1:D:544:ASN:ND2	2.26	0.50
1:E:77:HIS:HB3	1:E:485:LYS:HD2	1.92	0.50
1:E:432:TRP:CD2	1:F:432:TRP:HB2	2.46	0.50
1:J:188:GLU:HG3	1:J:446:ARG:HH22	1.77	0.50
1:J:279:ARG:HD2	1:L:181:TRP:CG	2.47	0.50
1:J:543:GLU:HG2	1:J:544:ASN:ND2	2.27	0.50
1:M:181:TRP:HH2	1:M:448:ASN:ND2	2.08	0.50
1:M:227:ASN:HD22	1:2:262:ARG:NE	2.08	0.50
1:Q:90:LEU:HD12	1:Q:342:VAL:HG11	1.91	0.50
1:Q:181:TRP:HH2	1:Q:448:ASN:ND2	2.08	0.50
1:R:543:GLU:HG2	1:R:544:ASN:ND2	2.27	0.50
1:V:86:THR:OG1	1:V:324:ASP:OD2	2.27	0.50
1:V:90:LEU:HD13	1:V:342:VAL:HG12	1.91	0.50
1:V:432:TRP:CD2	1:X:432:TRP:HB2	2.46	0.50
1:W:267:PRO:HD3	1:W:408:THR:HG22	1.93	0.50
1:W:543:GLU:HG2	1:W:544:ASN:ND2	2.27	0.50
1:X:95:PRO:HG2	1:X:365:GLN:O	2.12	0.50
1:X:267:PRO:HD3	1:X:408:THR:HG22	1.93	0.50
1:X:432:TRP:CD2	1:5:432:TRP:HB2	2.46	0.50
1:1:543:GLU:HG2	1:1:544:ASN:ND2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:267:PRO:HD3	1:2:408:THR:HG22	1.93	0.50
1:2:543:GLU:HG2	1:2:544:ASN:ND2	2.27	0.50
1:6:188:GLU:HG3	1:6:446:ARG:HH22	1.77	0.50
1:6:543:GLU:HG2	1:6:544:ASN:ND2	2.27	0.50
1:a:188:GLU:HG3	1:a:446:ARG:HH22	1.77	0.50
1:e:222:SER:HB2	1:q:536:HIS:CE1	2.47	0.50
1:f:188:GLU:HG3	1:f:446:ARG:HH22	1.77	0.50
1:j:267:PRO:HD3	1:j:408:THR:HG22	1.93	0.50
1:k:543:GLU:HG2	1:k:544:ASN:ND2	2.27	0.50
1:l:167:PHE:HB2	1:l:238:HIS:CB	2.42	0.50
1:q:267:PRO:HD3	1:q:408:THR:HG22	1.93	0.50
1:D:379:ARG:O	1:N:337:ARG:NH1	2.43	0.50
1:E:90:LEU:HD12	1:E:365:GLN:HE21	1.65	0.50
1:G:379:ARG:O	1:I:337:ARG:NH1	2.43	0.50
1:M:543:GLU:HG2	1:M:544:ASN:ND2	2.27	0.50
1:N:95:PRO:HG2	1:N:365:GLN:O	2.12	0.50
1:N:432:TRP:HB2	1:P:432:TRP:CD2	2.46	0.50
1:O:188:GLU:HG3	1:O:446:ARG:HH22	1.77	0.50
1:S:167:PHE:HB2	1:S:238:HIS:CB	2.42	0.50
1:W:95:PRO:HG2	1:W:365:GLN:O	2.12	0.50
1:X:536:HIS:CE1	1:Y:222:SER:HB2	2.47	0.50
1:2:188:GLU:HG3	1:2:446:ARG:HH22	1.77	0.50
1:3:95:PRO:HG2	1:3:365:GLN:O	2.12	0.50
1:3:432:TRP:HB2	1:i:432:TRP:CD2	2.46	0.50
1:c:95:PRO:HG2	1:c:365:GLN:O	2.12	0.50
1:c:432:TRP:HB2	1:d:432:TRP:CD2	2.46	0.50
1:d:77:HIS:HB3	1:d:485:LYS:HD2	1.91	0.50
1:d:379:ARG:O	1:e:337:ARG:NH1	2.43	0.50
1:d:432:TRP:HB2	1:e:432:TRP:CD2	2.46	0.50
1:e:543:GLU:HG2	1:e:544:ASN:ND2	2.27	0.50
1:i:95:PRO:HG2	1:i:365:GLN:O	2.12	0.50
1:i:432:TRP:HB2	1:j:432:TRP:CD2	2.46	0.50
1:i:536:HIS:CE1	1:7:222:SER:HB2	2.47	0.50
1:m:267:PRO:HD3	1:m:408:THR:HG22	1.93	0.50
1:p:95:PRO:HG2	1:p:365:GLN:O	2.12	0.50
1:q:432:TRP:CD2	1:s:432:TRP:HB2	2.46	0.50
1:t:432:TRP:CD2	1:v:432:TRP:HB2	2.46	0.50
1:z:95:PRO:HG2	1:z:365:GLN:O	2.12	0.50
1:A:95:PRO:HG2	1:A:365:GLN:O	2.12	0.50
1:B:167:PHE:HB2	1:B:238:HIS:CB	2.42	0.50
1:F:167:PHE:HB2	1:F:238:HIS:CB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:188:GLU:HG3	1:H:446:ARG:HH22	1.77	0.50
1:I:188:GLU:HG3	1:I:446:ARG:HH22	1.77	0.50
1:N:267:PRO:HD3	1:N:408:THR:HG22	1.93	0.50
1:O:432:TRP:CD2	1:h:432:TRP:HB2	2.46	0.50
1:P:77:HIS:HB3	1:P:485:LYS:HD2	1.91	0.50
1:S:90:LEU:HD12	1:S:365:GLN:HE21	1.65	0.50
1:U:267:PRO:HD3	1:U:408:THR:HG22	1.93	0.50
1:Y:267:PRO:HD3	1:Y:408:THR:HG22	1.93	0.50
1:2:181:TRP:HH2	1:2:448:ASN:ND2	2.08	0.50
1:3:167:PHE:HB2	1:3:238:HIS:CB	2.42	0.50
1:4:432:TRP:HB2	1:f:432:TRP:CD2	2.46	0.50
1:5:95:PRO:HG2	1:5:365:GLN:O	2.12	0.50
1:5:543:GLU:HG2	1:5:544:ASN:ND2	2.27	0.50
1:n:379:ARG:O	1:o:337:ARG:NH1	2.43	0.50
1:r:167:PHE:HB2	1:r:238:HIS:CB	2.42	0.50
1:r:181:TRP:HH2	1:r:448:ASN:ND2	2.08	0.50
1:r:188:GLU:HG3	1:r:446:ARG:HH22	1.77	0.50
1:s:90:LEU:HD12	1:s:342:VAL:HG11	1.92	0.50
1:s:167:PHE:HB2	1:s:238:HIS:CB	2.42	0.50
1:v:90:LEU:HD13	1:v:342:VAL:HG12	1.91	0.50
1:x:90:LEU:HD12	1:x:342:VAL:HG11	1.91	0.50
1:y:128:LYS:O	1:y:260:ASN:N	2.37	0.50
1:z:267:PRO:HD3	1:z:408:THR:HG22	1.93	0.50
1:B:86:THR:OG1	1:B:324:ASP:OD2	2.27	0.50
1:C:432:TRP:HB2	1:2:432:TRP:CD2	2.46	0.50
1:D:90:LEU:HD13	1:D:342:VAL:HG12	1.91	0.50
1:H:95:PRO:HG2	1:H:365:GLN:O	2.12	0.50
1:J:90:LEU:HD12	1:J:342:VAL:HG11	1.92	0.50
1:K:95:PRO:HG2	1:K:365:GLN:O	2.12	0.50
1:K:267:PRO:HD3	1:K:408:THR:HG22	1.93	0.50
1:K:543:GLU:HG2	1:K:544:ASN:ND2	2.27	0.50
1:N:536:HIS:CE1	1:g:222:SER:HB2	2.47	0.50
1:O:95:PRO:HG2	1:O:365:GLN:O	2.12	0.50
1:Q:167:PHE:HB2	1:Q:238:HIS:CB	2.42	0.50
1:Q:188:GLU:HG3	1:Q:446:ARG:HH22	1.77	0.50
1:R:222:SER:HB2	1:V:536:HIS:CE1	2.47	0.50
1:U:128:LYS:O	1:U:260:ASN:N	2.37	0.50
1:V:267:PRO:HD3	1:V:408:THR:HG22	1.93	0.50
1:1:167:PHE:HB2	1:1:238:HIS:CB	2.42	0.50
1:1:188:GLU:HG3	1:1:446:ARG:HH22	1.77	0.50
1:3:188:GLU:HG3	1:3:446:ARG:HH22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:543:GLU:HG2	1:3:544:ASN:ND2	2.27	0.50
1:5:167:PHE:HB2	1:5:238:HIS:CB	2.42	0.50
1:a:543:GLU:HG2	1:a:544:ASN:ND2	2.27	0.50
1:b:543:GLU:HG2	1:b:544:ASN:ND2	2.27	0.50
1:c:267:PRO:HD3	1:c:408:THR:HG22	1.93	0.50
1:h:222:SER:HB2	1:l:536:HIS:CE1	2.47	0.50
1:m:128:LYS:O	1:m:260:ASN:N	2.37	0.50
1:n:543:GLU:HG2	1:n:544:ASN:ND2	2.27	0.50
1:o:543:GLU:HG2	1:o:544:ASN:ND2	2.27	0.50
1:u:86:THR:OG1	1:u:324:ASP:OD2	2.27	0.50
1:u:167:PHE:HB2	1:u:238:HIS:CB	2.42	0.50
1:w:167:PHE:HB2	1:w:238:HIS:CB	2.42	0.50
1:x:95:PRO:HG2	1:x:365:GLN:O	2.12	0.50
1:x:267:PRO:HD3	1:x:408:THR:HG22	1.93	0.50
1:y:95:PRO:HG2	1:y:365:GLN:O	2.12	0.50
1:B:432:TRP:HB2	1:J:432:TRP:CD2	2.47	0.50
1:C:543:GLU:HG2	1:C:544:ASN:ND2	2.27	0.50
1:F:90:LEU:HD12	1:F:342:VAL:HG11	1.92	0.50
1:G:543:GLU:HG2	1:G:544:ASN:ND2	2.27	0.50
1:I:543:GLU:HG2	1:I:544:ASN:ND2	2.27	0.50
1:J:95:PRO:HG2	1:J:365:GLN:O	2.12	0.50
1:J:432:TRP:HB2	1:L:432:TRP:CD2	2.46	0.50
1:M:536:HIS:CE1	1:N:222:SER:HB2	2.47	0.50
1:P:536:HIS:CE1	1:Q:222:SER:HB2	2.47	0.50
1:Q:95:PRO:HG2	1:Q:365:GLN:O	2.12	0.50
1:Q:536:HIS:CE1	1:S:222:SER:HB2	2.47	0.50
1:R:167:PHE:HB2	1:R:238:HIS:CB	2.42	0.50
1:S:379:ARG:O	1:U:337:ARG:NH1	2.41	0.50
1:S:536:HIS:CE1	1:4:222:SER:HB2	2.47	0.50
1:S:543:GLU:HG2	1:S:544:ASN:ND2	2.27	0.50
1:T:188:GLU:HG3	1:T:446:ARG:HH22	1.77	0.50
1:T:222:SER:HB2	1:c:536:HIS:CE1	2.47	0.50
1:6:181:TRP:HH2	1:6:448:ASN:ND2	2.08	0.50
1:6:432:TRP:CD2	1:a:432:TRP:HB2	2.46	0.50
1:a:267:PRO:HD3	1:a:408:THR:HG22	1.93	0.50
1:f:95:PRO:HG2	1:f:365:GLN:O	2.12	0.50
1:j:90:LEU:HD13	1:j:342:VAL:HG12	1.91	0.50
1:j:536:HIS:CE1	1:k:222:SER:HB2	2.47	0.50
1:l:222:SER:HB2	1:r:536:HIS:CE1	2.47	0.50
1:l:379:ARG:O	1:m:337:ARG:NH1	2.41	0.50
1:o:188:GLU:HG3	1:o:446:ARG:HH22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:90:LEU:HD12	1:q:365:GLN:HE21	1.65	0.50
1:r:95:PRO:HG2	1:r:365:GLN:O	2.12	0.50
1:s:86:THR:OG1	1:s:324:ASP:OD2	2.27	0.50
1:t:543:GLU:HG2	1:t:544:ASN:ND2	2.26	0.50
1:w:188:GLU:HG3	1:w:446:ARG:HH22	1.77	0.50
1:x:128:LYS:O	1:x:260:ASN:N	2.37	0.50
1:x:543:GLU:HG2	1:x:544:ASN:ND2	2.27	0.50
1:y:188:GLU:HG3	1:y:446:ARG:HH22	1.77	0.50
1:y:222:SER:HB2	1:8:536:HIS:CE1	2.47	0.50
1:7:267:PRO:HD3	1:7:408:THR:HG22	1.93	0.50
1:8:543:GLU:HG2	1:8:544:ASN:ND2	2.27	0.50
1:C:222:SER:HB2	1:D:536:HIS:CE1	2.47	0.49
1:D:181:TRP:HH2	1:D:448:ASN:ND2	2.08	0.49
1:H:222:SER:HB2	1:Z:536:HIS:CE1	2.47	0.49
1:L:543:GLU:HG2	1:L:544:ASN:ND2	2.27	0.49
1:M:337:ARG:NH1	1:2:379:ARG:O	2.43	0.49
1:S:95:PRO:HG2	1:S:365:GLN:O	2.12	0.49
1:U:543:GLU:HG2	1:U:544:ASN:ND2	2.26	0.49
1:X:222:SER:HB2	1:6:536:HIS:CE1	2.47	0.49
1:Z:543:GLU:HG2	1:Z:544:ASN:ND2	2.27	0.49
1:5:188:GLU:HG3	1:5:446:ARG:HH22	1.77	0.49
1:5:536:HIS:CE1	1:b:222:SER:HB2	2.47	0.49
1:b:536:HIS:CE1	1:c:222:SER:HB2	2.47	0.49
1:d:536:HIS:CE1	1:r:222:SER:HB2	2.47	0.49
1:e:90:LEU:HD13	1:e:342:VAL:HG12	1.91	0.49
1:e:181:TRP:HH2	1:e:448:ASN:ND2	2.08	0.49
1:g:188:GLU:HG3	1:g:446:ARG:HH22	1.77	0.49
1:h:181:TRP:HH2	1:h:448:ASN:ND2	2.08	0.49
1:j:188:GLU:HG3	1:j:446:ARG:HH22	1.77	0.49
1:k:167:PHE:HB2	1:k:238:HIS:CB	2.42	0.49
1:l:543:GLU:HG2	1:l:544:ASN:ND2	2.27	0.49
1:n:536:HIS:CE1	1:z:222:SER:HB2	2.47	0.49
1:B:543:GLU:HG2	1:B:544:ASN:ND2	2.27	0.49
1:C:267:PRO:HD3	1:C:408:THR:HG22	1.93	0.49
1:C:337:ARG:NH1	1:M:379:ARG:O	2.43	0.49
1:G:536:HIS:CE1	1:W:222:SER:HB2	2.47	0.49
1:K:90:LEU:HD12	1:K:342:VAL:HG11	1.92	0.49
1:Q:90:LEU:CD1	1:Q:342:VAL:CG1	2.78	0.49
1:U:167:PHE:HB2	1:U:238:HIS:CB	2.42	0.49
1:V:188:GLU:HG3	1:V:446:ARG:HH22	1.77	0.49
1:W:128:LYS:O	1:W:260:ASN:N	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:167:PHE:HB2	1:W:238:HIS:CB	2.42	0.49
1:Z:167:PHE:HB2	1:Z:238:HIS:CB	2.42	0.49
1:Z:222:SER:HB2	1:1:536:HIS:CE1	2.47	0.49
1:3:267:PRO:HD3	1:3:408:THR:HG22	1.93	0.49
1:4:181:TRP:HH2	1:4:448:ASN:ND2	2.08	0.49
1:6:379:ARG:O	1:b:337:ARG:NH1	2.43	0.49
1:c:188:GLU:HG3	1:c:446:ARG:HH22	1.77	0.49
1:d:95:PRO:HG2	1:d:365:GLN:O	2.12	0.49
1:m:167:PHE:HB2	1:m:238:HIS:CB	2.42	0.49
1:m:543:GLU:HG2	1:m:544:ASN:ND2	2.26	0.49
1:o:222:SER:HB2	1:y:536:HIS:CE1	2.47	0.49
1:v:95:PRO:HG2	1:v:365:GLN:O	2.12	0.49
1:w:536:HIS:CE1	1:8:222:SER:HB2	2.47	0.49
1:y:337:ARG:NH1	1:7:379:ARG:O	2.43	0.49
1:z:128:LYS:O	1:z:260:ASN:N	2.37	0.49
1:z:167:PHE:HB2	1:z:238:HIS:CB	2.42	0.49
1:7:188:GLU:HG3	1:7:446:ARG:HH22	1.77	0.49
1:8:167:PHE:HB2	1:8:238:HIS:CB	2.42	0.49
1:8:188:GLU:HG3	1:8:446:ARG:HH22	1.77	0.49
1:A:222:SER:HB2	1:B:536:HIS:CE1	2.47	0.49
1:H:536:HIS:CE1	1:I:222:SER:HB2	2.47	0.49
1:M:222:SER:HB2	1:3:536:HIS:CE1	2.47	0.49
1:N:188:GLU:HG3	1:N:446:ARG:HH22	1.77	0.49
1:O:222:SER:HB2	1:4:536:HIS:CE1	2.47	0.49
1:O:543:GLU:HG2	1:O:544:ASN:ND2	2.27	0.49
1:P:95:PRO:HG2	1:P:365:GLN:O	2.12	0.49
1:S:432:TRP:HB2	1:U:432:TRP:CD2	2.46	0.49
1:T:90:LEU:HD13	1:T:342:VAL:HG12	1.91	0.49
1:T:181:TRP:HH2	1:T:448:ASN:ND2	2.08	0.49
1:U:188:GLU:HG3	1:U:446:ARG:HH22	1.77	0.49
1:Y:188:GLU:HG3	1:Y:446:ARG:HH22	1.77	0.49
1:2:167:PHE:HB2	1:2:238:HIS:CB	2.42	0.49
1:2:536:HIS:CE1	1:i:222:SER:HB2	2.47	0.49
1:5:267:PRO:HD3	1:5:408:THR:HG22	1.93	0.49
1:a:222:SER:HB2	1:e:536:HIS:CE1	2.47	0.49
1:a:337:ARG:NH1	1:b:379:ARG:O	2.43	0.49
1:d:167:PHE:HB2	1:d:238:HIS:CB	2.42	0.49
1:f:543:GLU:HG2	1:f:544:ASN:ND2	2.27	0.49
1:i:167:PHE:HB2	1:i:238:HIS:CB	2.42	0.49
1:k:536:HIS:CE1	1:s:222:SER:HB2	2.47	0.49
1:l:95:PRO:HG2	1:l:365:GLN:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:432:TRP:HB2	1:m:432:TRP:CD2	2.46	0.49
1:n:167:PHE:HB2	1:n:238:HIS:CB	2.42	0.49
1:p:222:SER:HB2	1:u:536:HIS:CE1	2.47	0.49
1:r:90:LEU:CD1	1:r:342:VAL:CG1	2.78	0.49
1:u:543:GLU:HG2	1:u:544:ASN:ND2	2.27	0.49
1:B:222:SER:HB2	1:C:536:HIS:CE1	2.46	0.49
1:E:543:GLU:HG2	1:E:544:ASN:ND2	2.27	0.49
1:G:95:PRO:HG2	1:G:365:GLN:O	2.12	0.49
1:G:167:PHE:HB2	1:G:238:HIS:CB	2.42	0.49
1:H:167:PHE:HB2	1:H:238:HIS:CB	2.42	0.49
1:O:536:HIS:CE1	1:P:222:SER:HB2	2.47	0.49
1:P:167:PHE:HB2	1:P:238:HIS:CB	2.42	0.49
1:V:95:PRO:HG2	1:V:365:GLN:O	2.12	0.49
1:Z:188:GLU:HG3	1:Z:446:ARG:HH22	1.77	0.49
1:5:262:ARG:HD2	1:5:405:ILE:HD12	1.95	0.49
1:a:167:PHE:HB2	1:a:238:HIS:CB	2.42	0.49
1:b:188:GLU:HG3	1:b:446:ARG:HH22	1.77	0.49
1:c:543:GLU:HG2	1:c:544:ASN:ND2	2.27	0.49
1:d:222:SER:HB2	1:f:536:HIS:CE1	2.47	0.49
1:e:267:PRO:HD3	1:e:408:THR:HG22	1.93	0.49
1:g:95:PRO:HG2	1:g:365:GLN:O	2.12	0.49
1:l:90:LEU:HD12	1:l:365:GLN:HE21	1.65	0.49
1:m:188:GLU:HG3	1:m:446:ARG:HH22	1.77	0.49
1:n:95:PRO:HG2	1:n:365:GLN:O	2.12	0.49
1:n:128:LYS:O	1:n:260:ASN:N	2.37	0.49
1:o:95:PRO:HG2	1:o:365:GLN:O	2.12	0.49
1:u:267:PRO:HD3	1:u:408:THR:HG22	1.93	0.49
1:v:536:HIS:CE1	1:w:222:SER:HB2	2.47	0.49
1:x:90:LEU:HD12	1:x:365:GLN:HE21	1.65	0.49
1:A:262:ARG:HD2	1:A:405:ILE:HD12	1.95	0.49
1:F:222:SER:HB2	1:R:536:HIS:CE1	2.47	0.49
1:F:337:ARG:NH1	1:Q:379:ARG:O	2.43	0.49
1:J:181:TRP:HH2	1:J:448:ASN:ND2	2.08	0.49
1:J:194:TRP:CH2	1:J:196:LEU:HD23	2.48	0.49
1:L:95:PRO:HG2	1:L:365:GLN:O	2.12	0.49
1:M:167:PHE:HB2	1:M:238:HIS:CB	2.42	0.49
1:N:543:GLU:HG2	1:N:544:ASN:ND2	2.27	0.49
1:O:167:PHE:HB2	1:O:238:HIS:CB	2.42	0.49
1:O:181:TRP:HH2	1:O:448:ASN:ND2	2.08	0.49
1:T:95:PRO:HG2	1:T:365:GLN:O	2.12	0.49
1:V:222:SER:HB2	1:W:536:HIS:CE1	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:167:PHE:HB2	1:X:238:HIS:CB	2.42	0.49
1:X:194:TRP:CH2	1:X:196:LEU:HD23	2.48	0.49
1:Y:167:PHE:HB2	1:Y:238:HIS:CB	2.42	0.49
1:Z:194:TRP:CH2	1:Z:196:LEU:HD23	2.48	0.49
1:3:262:ARG:HD2	1:3:405:ILE:HD12	1.95	0.49
1:4:95:PRO:HG2	1:4:365:GLN:O	2.12	0.49
1:6:95:PRO:HG2	1:6:365:GLN:O	2.12	0.49
1:6:167:PHE:HB2	1:6:238:HIS:CB	2.42	0.49
1:a:536:HIS:CE1	1:u:222:SER:HB2	2.47	0.49
1:f:222:SER:HB2	1:h:536:HIS:CE1	2.47	0.49
1:g:167:PHE:HB2	1:g:238:HIS:CB	2.42	0.49
1:g:181:TRP:HH2	1:g:448:ASN:ND2	2.08	0.49
1:h:95:PRO:HG2	1:h:365:GLN:O	2.12	0.49
1:i:194:TRP:CH2	1:i:196:LEU:HD23	2.48	0.49
1:j:95:PRO:HG2	1:j:365:GLN:O	2.12	0.49
1:j:222:SER:HB2	1:z:536:HIS:CE1	2.47	0.49
1:k:181:TRP:HH2	1:k:448:ASN:ND2	2.08	0.49
1:r:379:ARG:O	1:s:337:ARG:NH1	2.43	0.49
1:t:262:ARG:HD2	1:t:405:ILE:HD12	1.95	0.49
1:v:194:TRP:CH2	1:v:196:LEU:HD23	2.48	0.49
1:x:194:TRP:CH2	1:x:196:LEU:HD23	2.48	0.49
1:y:167:PHE:HB2	1:y:238:HIS:CB	2.42	0.49
1:7:167:PHE:HB2	1:7:238:HIS:CB	2.42	0.49
1:8:194:TRP:CH2	1:8:196:LEU:HD23	2.48	0.49
1:B:267:PRO:HD3	1:B:408:THR:HG22	1.93	0.49
1:D:267:PRO:HD3	1:D:408:THR:HG22	1.93	0.49
1:E:337:ARG:NH1	1:F:379:ARG:O	2.43	0.49
1:F:95:PRO:HG2	1:F:365:GLN:O	2.12	0.49
1:G:128:LYS:O	1:G:260:ASN:N	2.37	0.49
1:H:194:TRP:CH2	1:H:196:LEU:HD23	2.48	0.49
1:K:194:TRP:CH2	1:K:196:LEU:HD23	2.48	0.49
1:K:379:ARG:O	1:I:337:ARG:NH1	2.43	0.49
1:L:262:ARG:HD2	1:L:405:ILE:HD12	1.95	0.49
1:M:188:GLU:HG3	1:M:446:ARG:HH22	1.77	0.49
1:T:167:PHE:HB2	1:T:238:HIS:CB	2.42	0.49
1:W:188:GLU:HG3	1:W:446:ARG:HH22	1.77	0.49
1:2:95:PRO:HG2	1:2:365:GLN:O	2.12	0.49
1:4:194:TRP:CH2	1:4:196:LEU:HD23	2.48	0.49
1:b:167:PHE:HB2	1:b:238:HIS:CB	2.42	0.49
1:b:194:TRP:CH2	1:b:196:LEU:HD23	2.48	0.49
1:d:86:THR:OG1	1:d:324:ASP:OD2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:194:TRP:CH2	1:e:196:LEU:HD23	2.48	0.49
1:f:167:PHE:HB2	1:f:238:HIS:CB	2.42	0.49
1:f:181:TRP:HH2	1:f:448:ASN:ND2	2.08	0.49
1:g:86:THR:OG1	1:g:324:ASP:OD2	2.27	0.49
1:h:194:TRP:CH2	1:h:196:LEU:HD23	2.48	0.49
1:k:86:THR:OG1	1:k:324:ASP:OD2	2.27	0.49
1:p:262:ARG:HD2	1:p:405:ILE:HD12	1.95	0.49
1:q:337:ARG:NH1	1:s:379:ARG:O	2.43	0.49
1:q:543:GLU:HG2	1:q:544:ASN:ND2	2.27	0.49
1:s:95:PRO:HG2	1:s:365:GLN:O	2.12	0.49
1:s:194:TRP:CH2	1:s:196:LEU:HD23	2.48	0.49
1:t:95:PRO:HG2	1:t:365:GLN:O	2.12	0.49
1:w:337:ARG:NH1	1:x:379:ARG:O	2.43	0.49
1:B:188:GLU:HG3	1:B:446:ARG:HH22	1.77	0.49
1:C:167:PHE:HB2	1:C:238:HIS:CB	2.42	0.49
1:D:194:TRP:CH2	1:D:196:LEU:HD23	2.48	0.49
1:E:95:PRO:HG2	1:E:365:GLN:O	2.12	0.49
1:F:194:TRP:CH2	1:F:196:LEU:HD23	2.48	0.49
1:I:95:PRO:HG2	1:I:365:GLN:O	2.12	0.49
1:K:167:PHE:HB2	1:K:238:HIS:CB	2.42	0.49
1:K:188:GLU:HG3	1:K:446:ARG:HH22	1.77	0.49
1:M:95:PRO:HG2	1:M:365:GLN:O	2.12	0.49
1:M:194:TRP:CH2	1:M:196:LEU:HD23	2.48	0.49
1:R:181:TRP:HH2	1:R:448:ASN:ND2	2.08	0.49
1:T:86:THR:OG1	1:T:324:ASP:OD2	2.27	0.49
1:U:95:PRO:HG2	1:U:365:GLN:O	2.12	0.49
1:Y:194:TRP:CH2	1:Y:196:LEU:HD23	2.48	0.49
1:Z:337:ARG:NH1	1:w:379:ARG:O	2.43	0.49
1:a:95:PRO:HG2	1:a:365:GLN:O	2.12	0.49
1:b:86:THR:OG1	1:b:324:ASP:OD2	2.27	0.49
1:b:95:PRO:HG2	1:b:365:GLN:O	2.12	0.49
1:d:194:TRP:CH2	1:d:196:LEU:HD23	2.48	0.49
1:e:188:GLU:HG3	1:e:446:ARG:HH22	1.77	0.49
1:h:167:PHE:HB2	1:h:238:HIS:CB	2.42	0.49
1:q:188:GLU:HG3	1:q:446:ARG:HH22	1.77	0.49
1:v:181:TRP:HH2	1:v:448:ASN:ND2	2.08	0.49
1:x:167:PHE:HB2	1:x:238:HIS:CB	2.42	0.49
1:x:188:GLU:HG3	1:x:446:ARG:HH22	1.77	0.49
1:y:194:TRP:CH2	1:y:196:LEU:HD23	2.48	0.49
1:z:188:GLU:HG3	1:z:446:ARG:HH22	1.77	0.49
1:7:194:TRP:CH2	1:7:196:LEU:HD23	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:95:PRO:HG2	1:D:365:GLN:O	2.12	0.49
1:E:167:PHE:HB2	1:E:238:HIS:CB	2.42	0.49
1:E:188:GLU:HG3	1:E:446:ARG:HH22	1.77	0.49
1:E:194:TRP:CH2	1:E:196:LEU:HD23	2.48	0.49
1:K:262:ARG:HD2	1:K:405:ILE:HD12	1.95	0.49
1:N:167:PHE:HB2	1:N:238:HIS:CB	2.42	0.49
1:N:194:TRP:CH2	1:N:196:LEU:HD23	2.48	0.49
1:P:194:TRP:CH2	1:P:196:LEU:HD23	2.48	0.49
1:4:167:PHE:HB2	1:4:238:HIS:CB	2.42	0.49
1:4:188:GLU:HG3	1:4:446:ARG:HH22	1.77	0.49
1:k:188:GLU:HG3	1:k:446:ARG:HH22	1.77	0.49
1:l:188:GLU:HG3	1:l:446:ARG:HH22	1.77	0.49
1:m:95:PRO:HG2	1:m:365:GLN:O	2.12	0.49
1:q:95:PRO:HG2	1:q:365:GLN:O	2.12	0.49
1:q:194:TRP:CH2	1:q:196:LEU:HD23	2.48	0.49
1:u:95:PRO:HG2	1:u:365:GLN:O	2.12	0.49
1:u:194:TRP:CH2	1:u:196:LEU:HD23	2.48	0.49
1:8:95:PRO:HG2	1:8:365:GLN:O	2.12	0.49
1:B:95:PRO:HG2	1:B:365:GLN:O	2.12	0.49
1:B:194:TRP:CH2	1:B:196:LEU:HD23	2.48	0.49
1:C:95:PRO:HG2	1:C:365:GLN:O	2.12	0.49
1:D:188:GLU:HG3	1:D:446:ARG:HH22	1.77	0.49
1:I:167:PHE:HB2	1:I:238:HIS:CB	2.42	0.49
1:J:90:LEU:HD12	1:J:365:GLN:HE21	1.65	0.49
1:L:167:PHE:HB2	1:L:238:HIS:CB	2.42	0.49
1:M:86:THR:OG1	1:M:324:ASP:OD2	2.27	0.49
1:P:86:THR:OG1	1:P:324:ASP:OD2	2.27	0.49
1:R:86:THR:OG1	1:R:324:ASP:OD2	2.27	0.49
1:R:95:PRO:HG2	1:R:365:GLN:O	2.12	0.49
1:S:188:GLU:HG3	1:S:446:ARG:HH22	1.77	0.49
1:S:194:TRP:CH2	1:S:196:LEU:HD23	2.48	0.49
1:V:194:TRP:CH2	1:V:196:LEU:HD23	2.48	0.49
1:Z:95:PRO:HG2	1:Z:365:GLN:O	2.12	0.49
1:1:379:ARG:O	1:8:337:ARG:NH1	2.43	0.49
1:c:167:PHE:HB2	1:c:238:HIS:CB	2.42	0.49
1:c:194:TRP:CH2	1:c:196:LEU:HD23	2.48	0.49
1:c:262:ARG:HD2	1:c:405:ILE:HD12	1.95	0.49
1:e:95:PRO:HG2	1:e:365:GLN:O	2.12	0.49
1:e:167:PHE:HB2	1:e:238:HIS:CB	2.42	0.49
1:i:188:GLU:HG3	1:i:446:ARG:HH22	1.77	0.49
1:j:194:TRP:CH2	1:j:196:LEU:HD23	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:167:PHE:HB2	1:o:238:HIS:CB	2.42	0.49
1:q:167:PHE:HB2	1:q:238:HIS:CB	2.42	0.49
1:t:167:PHE:HB2	1:t:238:HIS:CB	2.42	0.49
1:t:337:ARG:NH1	1:v:379:ARG:O	2.41	0.49
1:u:188:GLU:HG3	1:u:446:ARG:HH22	1.77	0.49
1:x:262:ARG:HD2	1:x:405:ILE:HD12	1.95	0.49
1:7:95:PRO:HG2	1:7:365:GLN:O	2.12	0.49
1:D:167:PHE:HB2	1:D:238:HIS:CB	2.42	0.49
1:F:188:GLU:HG3	1:F:446:ARG:HH22	1.77	0.49
1:G:90:LEU:HD13	1:G:342:VAL:HG12	1.91	0.49
1:K:90:LEU:HD12	1:K:365:GLN:HE21	1.65	0.49
1:N:262:ARG:HD2	1:N:405:ILE:HD12	1.95	0.49
1:Q:194:TRP:CH2	1:Q:196:LEU:HD23	2.48	0.49
1:R:188:GLU:HG3	1:R:446:ARG:HH22	1.77	0.49
1:V:167:PHE:HB2	1:V:238:HIS:CB	2.42	0.49
1:h:188:GLU:HG3	1:h:446:ARG:HH22	1.77	0.49
1:j:167:PHE:HB2	1:j:238:HIS:CB	2.42	0.49
1:k:95:PRO:HG2	1:k:365:GLN:O	2.12	0.49
1:k:181:TRP:CG	1:m:279:ARG:HD2	2.48	0.49
1:l:194:TRP:CH2	1:l:196:LEU:HD23	2.48	0.49
1:r:194:TRP:CH2	1:r:196:LEU:HD23	2.48	0.49
1:L:194:TRP:CH2	1:L:196:LEU:HD23	2.48	0.48
1:R:181:TRP:CG	1:U:279:ARG:HD2	2.48	0.48
1:W:262:ARG:HD2	1:W:405:ILE:HD12	1.95	0.48
1:X:188:GLU:HG3	1:X:446:ARG:HH22	1.77	0.48
1:Y:95:PRO:HG2	1:Y:365:GLN:O	2.12	0.48
1:6:194:TRP:CH2	1:6:196:LEU:HD23	2.48	0.48
1:p:167:PHE:HB2	1:p:238:HIS:CB	2.42	0.48
1:s:188:GLU:HG3	1:s:446:ARG:HH22	1.77	0.48
1:w:95:PRO:HG2	1:w:365:GLN:O	2.12	0.48
1:A:167:PHE:HB2	1:A:238:HIS:CB	2.42	0.48
1:I:262:ARG:HD2	1:I:405:ILE:HD12	1.95	0.48
1:2:194:TRP:CH2	1:2:196:LEU:HD23	2.48	0.48
1:k:194:TRP:CH2	1:k:196:LEU:HD23	2.48	0.48
1:m:194:TRP:CH2	1:m:196:LEU:HD23	2.48	0.48
1:o:128:LYS:O	1:o:260:ASN:N	2.37	0.48
1:o:181:TRP:HH2	1:o:448:ASN:ND2	2.08	0.48
1:o:262:ARG:HD2	1:o:405:ILE:HD12	1.95	0.48
1:t:194:TRP:CH2	1:t:196:LEU:HD23	2.48	0.48
1:y:90:LEU:HD12	1:y:342:VAL:HG11	1.92	0.48
1:B:337:ARG:NH1	1:L:379:ARG:O	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:260:ASN:O	1:F:560:LYS:HA	2.14	0.48
1:I:260:ASN:O	1:I:560:LYS:HA	2.14	0.48
1:K:84:GLN:HE21	1:K:95:PRO:HD2	1.79	0.48
1:N:90:LEU:HD13	1:N:342:VAL:HG11	1.82	0.48
1:P:260:ASN:O	1:P:560:LYS:HA	2.14	0.48
1:R:260:ASN:O	1:R:560:LYS:HA	2.14	0.48
1:R:383:PRO:HG3	1:U:291:TYR:CE2	2.48	0.48
1:U:194:TRP:CH2	1:U:196:LEU:HD23	2.48	0.48
1:Y:90:LEU:HD13	1:Y:342:VAL:HG12	1.91	0.48
1:l:95:PRO:HG2	1:l:365:GLN:O	2.12	0.48
1:a:194:TRP:CH2	1:a:196:LEU:HD23	2.48	0.48
1:d:260:ASN:O	1:d:560:LYS:HA	2.14	0.48
1:f:90:LEU:HD13	1:f:342:VAL:HG12	1.91	0.48
1:k:383:PRO:HG3	1:m:291:TYR:CE2	2.48	0.48
1:n:337:ARG:NH1	1:p:379:ARG:O	2.43	0.48
1:o:260:ASN:O	1:o:560:LYS:HA	2.14	0.48
1:s:260:ASN:O	1:s:560:LYS:HA	2.14	0.48
1:s:543:GLU:HG2	1:s:544:ASN:ND2	2.27	0.48
1:w:262:ARG:HD2	1:w:405:ILE:HD12	1.95	0.48
1:z:262:ARG:HD2	1:z:405:ILE:HD12	1.95	0.48
1:z:379:ARG:O	1:7:337:ARG:NH1	2.43	0.48
1:C:194:TRP:CH2	1:C:196:LEU:HD23	2.48	0.48
1:D:260:ASN:O	1:D:560:LYS:HA	2.14	0.48
1:I:181:TRP:HH2	1:I:448:ASN:ND2	2.08	0.48
1:J:167:PHE:HB2	1:J:238:HIS:CB	2.42	0.48
1:J:262:ARG:HD2	1:J:405:ILE:HD12	1.95	0.48
1:K:337:ARG:NH1	1:8:379:ARG:O	2.43	0.48
1:R:194:TRP:CH2	1:R:196:LEU:HD23	2.48	0.48
1:X:260:ASN:O	1:X:560:LYS:HA	2.14	0.48
1:3:194:TRP:CH2	1:3:196:LEU:HD23	2.48	0.48
1:5:194:TRP:CH2	1:5:196:LEU:HD23	2.48	0.48
1:a:262:ARG:HD2	1:a:405:ILE:HD12	1.95	0.48
1:b:262:ARG:HD2	1:b:405:ILE:HD12	1.95	0.48
1:e:260:ASN:O	1:e:560:LYS:HA	2.14	0.48
1:i:90:LEU:HD13	1:i:342:VAL:HG12	1.91	0.48
1:k:260:ASN:O	1:k:560:LYS:HA	2.14	0.48
1:n:90:LEU:HD13	1:n:342:VAL:HG12	1.91	0.48
1:u:262:ARG:HD2	1:u:405:ILE:HD12	1.95	0.48
1:v:90:LEU:HD12	1:v:365:GLN:HE21	1.65	0.48
1:v:262:ARG:HD2	1:v:405:ILE:HD12	1.95	0.48
1:w:181:TRP:HH2	1:w:448:ASN:ND2	2.08	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:84:GLN:HE21	1:x:95:PRO:HD2	1.79	0.48
1:x:90:LEU:HD13	1:x:342:VAL:HG12	1.91	0.48
1:A:379:ARG:O	1:G:337:ARG:NH1	2.43	0.48
1:F:543:GLU:HG2	1:F:544:ASN:ND2	2.27	0.48
1:G:262:ARG:HD2	1:G:405:ILE:HD12	1.95	0.48
1:H:260:ASN:O	1:H:560:LYS:HA	2.14	0.48
1:J:84:GLN:HE21	1:J:95:PRO:HD2	1.79	0.48
1:M:260:ASN:O	1:M:560:LYS:HA	2.14	0.48
1:M:262:ARG:HD2	1:M:405:ILE:HD12	1.95	0.48
1:T:262:ARG:HD2	1:T:405:ILE:HD12	1.95	0.48
1:X:84:GLN:HE21	1:X:95:PRO:HD2	1.79	0.48
1:1:262:ARG:HD2	1:1:405:ILE:HD12	1.95	0.48
1:4:260:ASN:O	1:4:560:LYS:HA	2.14	0.48
1:b:260:ASN:O	1:b:560:LYS:HA	2.14	0.48
1:h:260:ASN:O	1:h:560:LYS:HA	2.14	0.48
1:i:260:ASN:O	1:i:560:LYS:HA	2.14	0.48
1:l:262:ARG:HD2	1:l:405:ILE:HD12	1.95	0.48
1:m:90:LEU:HD13	1:m:342:VAL:HG12	1.91	0.48
1:n:194:TRP:CH2	1:n:196:LEU:HD23	2.48	0.48
1:t:379:ARG:O	1:u:337:ARG:NH1	2.42	0.48
1:v:84:GLN:HE21	1:v:95:PRO:HD2	1.79	0.48
1:y:260:ASN:O	1:y:560:LYS:HA	2.14	0.48
1:8:262:ARG:HD2	1:8:405:ILE:HD12	1.95	0.48
1:B:262:ARG:HD2	1:B:405:ILE:HD12	1.95	0.48
1:C:262:ARG:HD2	1:C:405:ILE:HD12	1.95	0.48
1:H:84:GLN:HE21	1:H:95:PRO:HD2	1.79	0.48
1:I:128:LYS:O	1:I:260:ASN:N	2.37	0.48
1:I:194:TRP:CH2	1:I:196:LEU:HD23	2.48	0.48
1:O:90:LEU:HD13	1:O:342:VAL:HG12	1.91	0.48
1:S:262:ARG:HD2	1:S:405:ILE:HD12	1.95	0.48
1:U:90:LEU:HD13	1:U:342:VAL:HG12	1.91	0.48
1:Z:84:GLN:HE21	1:Z:95:PRO:HD2	1.79	0.48
1:Z:262:ARG:HD2	1:Z:405:ILE:HD12	1.95	0.48
1:Z:379:ARG:O	1:x:337:ARG:NH1	2.43	0.48
1:2:86:THR:OG1	1:2:324:ASP:OD2	2.27	0.48
1:g:262:ARG:HD2	1:g:405:ILE:HD12	1.95	0.48
1:i:84:GLN:HE21	1:i:95:PRO:HD2	1.79	0.48
1:p:194:TRP:CH2	1:p:196:LEU:HD23	2.48	0.48
1:s:262:ARG:HD2	1:s:405:ILE:HD12	1.95	0.48
1:t:291:TYR:CE2	1:u:383:PRO:HG3	2.48	0.48
1:u:181:TRP:HH2	1:u:448:ASN:ND2	2.08	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:379:ARG:O	1:v:337:ARG:NH1	2.43	0.48
1:v:167:PHE:HB2	1:v:238:HIS:CB	2.42	0.48
1:w:194:TRP:CH2	1:w:196:LEU:HD23	2.48	0.48
1:7:90:LEU:HD13	1:7:342:VAL:HG12	1.91	0.48
1:A:194:TRP:CH2	1:A:196:LEU:HD23	2.48	0.48
1:B:181:TRP:CG	1:L:279:ARG:HD2	2.48	0.48
1:F:262:ARG:HD2	1:F:405:ILE:HD12	1.95	0.48
1:G:194:TRP:CH2	1:G:196:LEU:HD23	2.48	0.48
1:O:337:ARG:NH1	1:h:379:ARG:O	2.43	0.48
1:R:262:ARG:HD2	1:R:405:ILE:HD12	1.95	0.48
1:W:379:ARG:O	1:Y:337:ARG:NH1	2.43	0.48
1:1:194:TRP:CH2	1:1:196:LEU:HD23	2.48	0.48
1:2:260:ASN:O	1:2:560:LYS:HA	2.14	0.48
1:3:260:ASN:O	1:3:560:LYS:HA	2.14	0.48
1:5:260:ASN:O	1:5:560:LYS:HA	2.14	0.48
1:6:260:ASN:O	1:6:560:LYS:HA	2.14	0.48
1:k:262:ARG:HD2	1:k:405:ILE:HD12	1.95	0.48
1:k:379:ARG:O	1:l:337:ARG:NH1	2.43	0.48
1:n:262:ARG:HD2	1:n:405:ILE:HD12	1.95	0.48
1:t:279:ARG:HD2	1:u:181:TRP:CG	2.48	0.48
1:y:84:GLN:HE21	1:y:95:PRO:HD2	1.79	0.48
1:8:84:GLN:HE21	1:8:95:PRO:HD2	1.79	0.48
1:B:383:PRO:HG3	1:L:291:TYR:CE2	2.48	0.48
1:C:260:ASN:O	1:C:560:LYS:HA	2.14	0.48
1:K:260:ASN:O	1:K:560:LYS:HA	2.14	0.48
1:O:453:LYS:HB2	1:O:475:PRO:HG3	1.96	0.48
1:R:379:ARG:O	1:S:337:ARG:NH1	2.43	0.48
1:R:453:LYS:HB2	1:R:475:PRO:HG3	1.96	0.48
1:U:262:ARG:HD2	1:U:405:ILE:HD12	1.95	0.48
1:V:84:GLN:HE21	1:V:95:PRO:HD2	1.79	0.48
1:X:90:LEU:HD13	1:X:342:VAL:HG12	1.91	0.48
1:3:337:ARG:NH1	1:j:379:ARG:O	2.43	0.48
1:6:453:LYS:HB2	1:6:475:PRO:HG3	1.96	0.48
1:a:260:ASN:O	1:a:560:LYS:HA	2.14	0.48
1:f:194:TRP:CH2	1:f:196:LEU:HD23	2.48	0.48
1:f:453:LYS:HB2	1:f:475:PRO:HG3	1.96	0.48
1:k:453:LYS:HB2	1:k:475:PRO:HG3	1.96	0.48
1:m:262:ARG:HD2	1:m:405:ILE:HD12	1.95	0.48
1:o:194:TRP:CH2	1:o:196:LEU:HD23	2.48	0.48
1:u:260:ASN:O	1:u:560:LYS:HA	2.14	0.48
1:B:260:ASN:O	1:B:560:LYS:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:90:LEU:HD12	1:D:365:GLN:HE21	1.64	0.48
1:E:90:LEU:HD13	1:E:342:VAL:HG12	1.91	0.48
1:I:536:HIS:CE1	1:J:222:SER:HB2	2.49	0.48
1:K:90:LEU:HD13	1:K:342:VAL:HG12	1.91	0.48
1:M:84:GLN:HE21	1:M:95:PRO:HD2	1.79	0.48
1:T:84:GLN:HE21	1:T:95:PRO:HD2	1.79	0.48
1:V:379:ARG:O	1:5:337:ARG:NH1	2.43	0.48
1:1:453:LYS:HB2	1:1:475:PRO:HG3	1.96	0.48
1:2:453:LYS:HB2	1:2:475:PRO:HG3	1.96	0.48
1:6:262:ARG:HD2	1:6:405:ILE:HD12	1.95	0.48
1:b:453:LYS:HB2	1:b:475:PRO:HG3	1.96	0.48
1:c:90:LEU:HD13	1:c:342:VAL:HG11	1.82	0.48
1:n:188:GLU:HG3	1:n:446:ARG:HH22	1.77	0.48
1:p:453:LYS:HB2	1:p:475:PRO:HG3	1.96	0.48
1:t:222:SER:HB2	1:x:536:HIS:CE1	2.49	0.48
1:w:453:LYS:HB2	1:w:475:PRO:HG3	1.96	0.48
1:x:260:ASN:O	1:x:560:LYS:HA	2.14	0.48
1:8:453:LYS:HB2	1:8:475:PRO:HG3	1.96	0.48
1:A:453:LYS:HB2	1:A:475:PRO:HG3	1.96	0.48
1:E:181:TRP:HH2	1:E:448:ASN:ND2	2.08	0.48
1:G:188:GLU:HG3	1:G:446:ARG:HH22	1.77	0.48
1:G:260:ASN:O	1:G:560:LYS:HA	2.14	0.48
1:J:260:ASN:O	1:J:560:LYS:HA	2.14	0.48
1:K:536:HIS:CE1	1:L:222:SER:HB2	2.49	0.48
1:M:453:LYS:HB2	1:M:475:PRO:HG3	1.96	0.48
1:O:194:TRP:CH2	1:O:196:LEU:HD23	2.48	0.48
1:O:262:ARG:HD2	1:O:405:ILE:HD12	1.95	0.48
1:P:262:ARG:HD2	1:P:405:ILE:HD12	1.95	0.48
1:P:453:LYS:HB2	1:P:475:PRO:HG3	1.96	0.48
1:X:262:ARG:HD2	1:X:405:ILE:HD12	1.95	0.48
1:1:260:ASN:O	1:1:560:LYS:HA	2.14	0.48
1:2:262:ARG:HD2	1:2:405:ILE:HD12	1.95	0.48
1:4:262:ARG:HD2	1:4:405:ILE:HD12	1.95	0.48
1:4:379:ARG:O	1:f:337:ARG:NH1	2.43	0.48
1:6:86:THR:OG1	1:6:324:ASP:OD2	2.27	0.48
1:d:262:ARG:HD2	1:d:405:ILE:HD12	1.95	0.48
1:d:453:LYS:HB2	1:d:475:PRO:HG3	1.96	0.48
1:e:453:LYS:HB2	1:e:475:PRO:HG3	1.96	0.48
1:f:262:ARG:HD2	1:f:405:ILE:HD12	1.95	0.48
1:g:84:GLN:HE21	1:g:95:PRO:HD2	1.79	0.48
1:h:262:ARG:HD2	1:h:405:ILE:HD12	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:262:ARG:HD2	1:i:405:ILE:HD12	1.95	0.48
1:j:84:GLN:HE21	1:j:95:PRO:HD2	1.79	0.48
1:n:181:TRP:HH2	1:n:448:ASN:ND2	2.08	0.48
1:r:260:ASN:O	1:r:560:LYS:HA	2.14	0.48
1:v:260:ASN:O	1:v:560:LYS:HA	2.14	0.48
1:w:86:THR:OG1	1:w:324:ASP:OD2	2.27	0.48
1:w:260:ASN:O	1:w:560:LYS:HA	2.14	0.48
1:z:181:TRP:HH2	1:z:448:ASN:ND2	2.08	0.48
1:z:194:TRP:CH2	1:z:196:LEU:HD23	2.48	0.48
1:D:453:LYS:HB2	1:D:475:PRO:HG3	1.96	0.47
1:H:262:ARG:HD2	1:H:405:ILE:HD12	1.95	0.47
1:I:410:TRP:CE3	1:I:413:VAL:HG23	2.49	0.47
1:I:453:LYS:HB2	1:I:475:PRO:HG3	1.96	0.47
1:J:410:TRP:CE3	1:J:413:VAL:HG23	2.49	0.47
1:O:90:LEU:CD1	1:O:365:GLN:CD	2.83	0.47
1:U:260:ASN:O	1:U:560:LYS:HA	2.14	0.47
1:U:453:LYS:HB2	1:U:475:PRO:HG3	1.96	0.47
1:X:410:TRP:CE3	1:X:413:VAL:HG23	2.49	0.47
1:Z:453:LYS:HB2	1:Z:475:PRO:HG3	1.96	0.47
1:2:84:GLN:HE21	1:2:95:PRO:HD2	1.78	0.47
1:6:84:GLN:HE21	1:6:95:PRO:HD2	1.79	0.47
1:b:84:GLN:HE21	1:b:95:PRO:HD2	1.79	0.47
1:f:90:LEU:CD1	1:f:365:GLN:CD	2.83	0.47
1:i:410:TRP:CE3	1:i:413:VAL:HG23	2.49	0.47
1:k:84:GLN:HE21	1:k:95:PRO:HD2	1.79	0.47
1:l:453:LYS:HB2	1:l:475:PRO:HG3	1.96	0.47
1:m:260:ASN:O	1:m:560:LYS:HA	2.14	0.47
1:n:260:ASN:O	1:n:560:LYS:HA	2.14	0.47
1:o:410:TRP:CE3	1:o:413:VAL:HG23	2.49	0.47
1:o:453:LYS:HB2	1:o:475:PRO:HG3	1.96	0.47
1:q:181:TRP:HH2	1:q:448:ASN:ND2	2.08	0.47
1:t:84:GLN:HE21	1:t:95:PRO:HD2	1.79	0.47
1:v:410:TRP:CE3	1:v:413:VAL:HG23	2.49	0.47
1:y:181:TRP:HH2	1:y:448:ASN:ND2	2.08	0.47
1:z:260:ASN:O	1:z:560:LYS:HA	2.14	0.47
1:G:181:TRP:HH2	1:G:448:ASN:ND2	2.08	0.47
1:H:181:TRP:HH2	1:H:448:ASN:ND2	2.08	0.47
1:Q:260:ASN:O	1:Q:560:LYS:HA	2.14	0.47
1:R:84:GLN:HE21	1:R:95:PRO:HD2	1.79	0.47
1:S:84:GLN:HE21	1:S:95:PRO:HD2	1.79	0.47
1:S:453:LYS:HB2	1:S:475:PRO:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:536:HIS:CE1	1:U:222:SER:HB2	2.49	0.47
1:W:90:LEU:CD1	1:W:365:GLN:CD	2.83	0.47
1:W:181:TRP:HH2	1:W:448:ASN:ND2	2.08	0.47
1:W:194:TRP:CH2	1:W:196:LEU:HD23	2.48	0.47
1:W:260:ASN:O	1:W:560:LYS:HA	2.14	0.47
1:4:410:TRP:CE3	1:4:413:VAL:HG23	2.49	0.47
1:c:410:TRP:CE3	1:c:413:VAL:HG23	2.50	0.47
1:g:536:HIS:CE1	1:m:222:SER:HB2	2.49	0.47
1:h:410:TRP:CE3	1:h:413:VAL:HG23	2.49	0.47
1:l:84:GLN:HE21	1:l:95:PRO:HD2	1.79	0.47
1:n:453:LYS:HB2	1:n:475:PRO:HG3	1.96	0.47
1:q:90:LEU:HD13	1:q:342:VAL:HG12	1.91	0.47
1:x:453:LYS:HB2	1:x:475:PRO:HG3	1.96	0.47
1:z:90:LEU:CD1	1:z:365:GLN:CD	2.83	0.47
1:C:453:LYS:HB2	1:C:475:PRO:HG3	1.96	0.47
1:G:453:LYS:HB2	1:G:475:PRO:HG3	1.96	0.47
1:I:90:LEU:CD1	1:I:365:GLN:CD	2.83	0.47
1:K:453:LYS:HB2	1:K:475:PRO:HG3	1.96	0.47
1:M:410:TRP:CE3	1:M:413:VAL:HG23	2.49	0.47
1:N:410:TRP:CE3	1:N:413:VAL:HG23	2.50	0.47
1:O:410:TRP:CE3	1:O:413:VAL:HG23	2.49	0.47
1:R:128:LYS:O	1:R:260:ASN:N	2.37	0.47
1:T:194:TRP:CH2	1:T:196:LEU:HD23	2.48	0.47
1:Z:260:ASN:O	1:Z:560:LYS:HA	2.14	0.47
1:Z:410:TRP:CE3	1:Z:413:VAL:HG23	2.49	0.47
1:1:86:THR:OG1	1:1:324:ASP:OD2	2.27	0.47
1:3:453:LYS:HB2	1:3:475:PRO:HG3	1.96	0.47
1:5:453:LYS:HB2	1:5:475:PRO:HG3	1.96	0.47
1:b:410:TRP:CE3	1:b:413:VAL:HG23	2.49	0.47
1:g:194:TRP:CH2	1:g:196:LEU:HD23	2.48	0.47
1:i:453:LYS:HB2	1:i:475:PRO:HG3	1.96	0.47
1:m:453:LYS:HB2	1:m:475:PRO:HG3	1.96	0.47
1:o:90:LEU:CD1	1:o:365:GLN:CD	2.83	0.47
1:r:262:ARG:HD2	1:r:405:ILE:HD12	1.95	0.47
1:w:410:TRP:CE3	1:w:413:VAL:HG23	2.49	0.47
1:y:262:ARG:HD2	1:y:405:ILE:HD12	1.95	0.47
1:z:84:GLN:HE21	1:z:95:PRO:HD2	1.79	0.47
1:8:260:ASN:O	1:8:560:LYS:HA	2.14	0.47
1:8:410:TRP:CE3	1:8:413:VAL:HG23	2.49	0.47
1:E:86:THR:OG1	1:E:324:ASP:OD2	2.27	0.47
1:E:410:TRP:CE3	1:E:413:VAL:HG23	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:379:ARG:O	1:W:337:ARG:NH1	2.43	0.47
1:R:410:TRP:CE3	1:R:413:VAL:HG23	2.49	0.47
1:W:84:GLN:HE21	1:W:95:PRO:HD2	1.79	0.47
1:Y:84:GLN:HE21	1:Y:95:PRO:HD2	1.79	0.47
1:1:410:TRP:CE3	1:1:413:VAL:HG23	2.49	0.47
1:a:453:LYS:HB2	1:a:475:PRO:HG3	1.96	0.47
1:f:410:TRP:CE3	1:f:413:VAL:HG23	2.49	0.47
1:g:260:ASN:O	1:g:560:LYS:HA	2.14	0.47
1:k:410:TRP:CE3	1:k:413:VAL:HG23	2.49	0.47
1:t:260:ASN:O	1:t:560:LYS:HA	2.14	0.47
1:7:262:ARG:HD2	1:7:405:ILE:HD12	1.95	0.47
1:D:262:ARG:HD2	1:D:405:ILE:HD12	1.95	0.47
1:D:383:PRO:HG3	1:P:291:TYR:CE2	2.50	0.47
1:F:410:TRP:CE3	1:F:413:VAL:HG23	2.49	0.47
1:K:410:TRP:CE3	1:K:413:VAL:HG23	2.49	0.47
1:L:84:GLN:HE21	1:L:95:PRO:HD2	1.79	0.47
1:L:410:TRP:CE3	1:L:413:VAL:HG23	2.49	0.47
1:N:84:GLN:HE21	1:N:95:PRO:HD2	1.79	0.47
1:P:410:TRP:CE3	1:P:413:VAL:HG23	2.50	0.47
1:Q:262:ARG:HD2	1:Q:405:ILE:HD12	1.95	0.47
1:T:260:ASN:O	1:T:560:LYS:HA	2.14	0.47
1:X:453:LYS:HB2	1:X:475:PRO:HG3	1.96	0.47
1:Y:262:ARG:HD2	1:Y:405:ILE:HD12	1.95	0.47
1:3:291:TYR:CE2	1:i:383:PRO:HG3	2.50	0.47
1:c:291:TYR:CE2	1:d:383:PRO:HG3	2.50	0.47
1:c:453:LYS:HB2	1:c:475:PRO:HG3	1.96	0.47
1:d:90:LEU:HD13	1:d:342:VAL:HG12	1.91	0.47
1:d:291:TYR:CE2	1:e:383:PRO:HG3	2.50	0.47
1:l:260:ASN:O	1:l:560:LYS:HA	2.14	0.47
1:p:410:TRP:CE3	1:p:413:VAL:HG23	2.49	0.47
1:q:260:ASN:O	1:q:560:LYS:HA	2.14	0.47
1:q:291:TYR:CE2	1:r:383:PRO:HG3	2.50	0.47
1:q:410:TRP:CE3	1:q:413:VAL:HG23	2.49	0.47
1:t:410:TRP:CE3	1:t:413:VAL:HG23	2.49	0.47
1:x:410:TRP:CE3	1:x:413:VAL:HG23	2.49	0.47
1:7:84:GLN:HE21	1:7:95:PRO:HD2	1.79	0.47
1:B:410:TRP:CE3	1:B:413:VAL:HG23	2.49	0.47
1:D:84:GLN:HE21	1:D:95:PRO:HD2	1.79	0.47
1:D:291:TYR:CE2	1:N:383:PRO:HG3	2.50	0.47
1:E:260:ASN:O	1:E:560:LYS:HA	2.14	0.47
1:E:262:ARG:HD2	1:E:405:ILE:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:291:TYR:CE2	1:Q:383:PRO:HG3	2.50	0.47
1:H:410:TRP:CE3	1:H:413:VAL:HG23	2.49	0.47
1:L:260:ASN:O	1:L:560:LYS:HA	2.14	0.47
1:N:291:TYR:CE2	1:P:383:PRO:HG3	2.50	0.47
1:N:453:LYS:HB2	1:N:475:PRO:HG3	1.96	0.47
1:V:260:ASN:O	1:V:560:LYS:HA	2.14	0.47
1:Y:453:LYS:HB2	1:Y:475:PRO:HG3	1.96	0.47
1:1:84:GLN:HE21	1:1:95:PRO:HD2	1.79	0.47
1:1:291:TYR:CE2	1:8:383:PRO:HG3	2.50	0.47
1:3:410:TRP:CE3	1:3:413:VAL:HG23	2.49	0.47
1:c:84:GLN:HE21	1:c:95:PRO:HD2	1.79	0.47
1:c:383:PRO:HG3	1:e:291:TYR:CE2	2.50	0.47
1:d:84:GLN:HE21	1:d:95:PRO:HD2	1.79	0.47
1:d:410:TRP:CE3	1:d:413:VAL:HG23	2.49	0.47
1:e:84:GLN:HE21	1:e:95:PRO:HD2	1.79	0.47
1:e:90:LEU:HD12	1:e:365:GLN:HE21	1.64	0.47
1:j:453:LYS:HB2	1:j:475:PRO:HG3	1.96	0.47
1:q:379:ARG:O	1:r:337:ARG:NH1	2.43	0.47
1:s:410:TRP:CE3	1:s:413:VAL:HG23	2.49	0.47
1:u:410:TRP:CE3	1:u:413:VAL:HG23	2.49	0.47
1:A:260:ASN:O	1:A:560:LYS:HA	2.14	0.47
1:A:383:PRO:HG3	1:I:291:TYR:CE2	2.50	0.47
1:A:410:TRP:CE3	1:A:413:VAL:HG23	2.49	0.47
1:B:453:LYS:HB2	1:B:475:PRO:HG3	1.96	0.47
1:C:279:ARG:HD2	1:2:181:TRP:CG	2.50	0.47
1:E:379:ARG:O	1:Q:337:ARG:NH1	2.43	0.47
1:E:453:LYS:HB2	1:E:475:PRO:HG3	1.96	0.47
1:F:453:LYS:HB2	1:F:475:PRO:HG3	1.96	0.47
1:P:84:GLN:HE21	1:P:95:PRO:HD2	1.79	0.47
1:S:260:ASN:O	1:S:560:LYS:HA	2.14	0.47
1:T:410:TRP:CE3	1:T:413:VAL:HG23	2.49	0.47
1:U:342:VAL:HG11	1:U:365:GLN:NE2	2.29	0.47
1:U:410:TRP:CE3	1:U:413:VAL:HG23	2.49	0.47
1:V:291:TYR:CE2	1:5:383:PRO:HG3	2.50	0.47
1:V:410:TRP:CE3	1:V:413:VAL:HG23	2.49	0.47
1:V:453:LYS:HB2	1:V:475:PRO:HG3	1.96	0.47
1:X:181:TRP:CG	1:5:279:ARG:HD2	2.50	0.47
1:X:383:PRO:HG3	1:5:291:TYR:CE2	2.50	0.47
1:Y:260:ASN:O	1:Y:560:LYS:HA	2.14	0.47
1:Z:181:TRP:CG	1:w:279:ARG:HD2	2.50	0.47
1:Z:383:PRO:HG3	1:w:291:TYR:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:410:TRP:CE3	1:2:413:VAL:HG23	2.49	0.47
1:3:279:ARG:HD2	1:i:181:TRP:CG	2.50	0.47
1:3:383:PRO:HG3	1:j:291:TYR:CE2	2.50	0.47
1:5:410:TRP:CE3	1:5:413:VAL:HG23	2.49	0.47
1:6:410:TRP:CE3	1:6:413:VAL:HG23	2.49	0.47
1:c:260:ASN:O	1:c:560:LYS:HA	2.14	0.47
1:e:262:ARG:HD2	1:e:405:ILE:HD12	1.95	0.47
1:j:260:ASN:O	1:j:560:LYS:HA	2.14	0.47
1:j:410:TRP:CE3	1:j:413:VAL:HG23	2.49	0.47
1:k:128:LYS:O	1:k:260:ASN:N	2.37	0.47
1:l:342:VAL:HG11	1:l:365:GLN:NE2	2.29	0.47
1:m:342:VAL:HG11	1:m:365:GLN:NE2	2.29	0.47
1:m:410:TRP:CE3	1:m:413:VAL:HG23	2.49	0.47
1:o:291:TYR:CE2	1:p:383:PRO:HG3	2.50	0.47
1:q:86:THR:OG1	1:q:324:ASP:OD2	2.27	0.47
1:q:181:TRP:CG	1:s:279:ARG:HD2	2.50	0.47
1:q:262:ARG:HD2	1:q:405:ILE:HD12	1.95	0.47
1:t:383:PRO:HG3	1:v:291:TYR:CE2	2.50	0.47
1:w:84:GLN:HE21	1:w:95:PRO:HD2	1.79	0.47
1:y:379:ARG:O	1:z:337:ARG:NH1	2.43	0.47
1:y:410:TRP:CE3	1:y:413:VAL:HG23	2.49	0.47
1:7:453:LYS:HB2	1:7:475:PRO:HG3	1.96	0.47
1:C:383:PRO:HG3	1:M:291:TYR:CE2	2.50	0.47
1:D:279:ARG:HD2	1:N:181:TRP:CG	2.50	0.47
1:E:181:TRP:CG	1:F:279:ARG:HD2	2.50	0.47
1:H:90:LEU:HD13	1:H:342:VAL:HG12	1.91	0.47
1:J:423:SER:HB2	1:L:318:HIS:HD2	1.79	0.47
1:M:383:PRO:HG3	1:2:291:TYR:CE2	2.50	0.47
1:N:260:ASN:O	1:N:560:LYS:HA	2.14	0.47
1:P:90:LEU:HD13	1:P:342:VAL:HG12	1.91	0.47
1:S:291:TYR:CE2	1:U:383:PRO:HG3	2.50	0.47
1:S:342:VAL:HG11	1:S:365:GLN:NE2	2.29	0.47
1:T:453:LYS:HB2	1:T:475:PRO:HG3	1.96	0.47
1:V:262:ARG:HD2	1:V:405:ILE:HD12	1.95	0.47
1:1:279:ARG:HD2	1:8:181:TRP:CG	2.50	0.47
1:4:453:LYS:HB2	1:4:475:PRO:HG3	1.96	0.47
1:6:181:TRP:CG	1:a:279:ARG:HD2	2.50	0.47
1:6:291:TYR:CE2	1:b:383:PRO:HG3	2.50	0.47
1:b:342:VAL:HG11	1:b:365:GLN:NE2	2.29	0.47
1:c:181:TRP:CG	1:e:279:ARG:HD2	2.50	0.47
1:d:342:VAL:HG11	1:d:365:GLN:NE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:410:TRP:CE3	1:g:413:VAL:HG23	2.49	0.47
1:g:453:LYS:HB2	1:g:475:PRO:HG3	1.96	0.47
1:h:453:LYS:HB2	1:h:475:PRO:HG3	1.96	0.47
1:k:291:TYR:CE2	1:l:383:PRO:HG3	2.50	0.47
1:n:383:PRO:HG3	1:p:291:TYR:CE2	2.50	0.47
1:p:260:ASN:O	1:p:560:LYS:HA	2.14	0.47
1:q:383:PRO:HG3	1:s:291:TYR:CE2	2.50	0.47
1:q:453:LYS:HB2	1:q:475:PRO:HG3	1.96	0.47
1:s:453:LYS:HB2	1:s:475:PRO:HG3	1.96	0.47
1:t:181:TRP:CG	1:v:279:ARG:HD2	2.50	0.47
1:u:453:LYS:HB2	1:u:475:PRO:HG3	1.96	0.47
1:y:90:LEU:HD13	1:y:342:VAL:HG12	1.91	0.47
1:A:291:TYR:CE2	1:G:383:PRO:HG3	2.50	0.47
1:B:84:GLN:HE21	1:B:95:PRO:HD2	1.79	0.47
1:B:90:LEU:HD13	1:B:342:VAL:HG12	1.91	0.47
1:B:275:VAL:HG11	1:J:182:ASP:HB3	1.97	0.47
1:C:84:GLN:HE21	1:C:95:PRO:HD2	1.79	0.47
1:D:410:TRP:CE3	1:D:413:VAL:HG23	2.49	0.47
1:J:270:ASP:O	1:L:177:ALA:HA	2.15	0.47
1:K:279:ARG:HD2	1:1:181:TRP:CG	2.50	0.47
1:O:291:TYR:CE2	1:g:383:PRO:HG3	2.50	0.47
1:P:342:VAL:HG11	1:P:365:GLN:NE2	2.29	0.47
1:R:291:TYR:CE2	1:S:383:PRO:HG3	2.50	0.47
1:T:279:ARG:HD2	1:4:181:TRP:CG	2.50	0.47
1:X:182:ASP:HB3	1:5:275:VAL:HG11	1.97	0.47
1:a:383:PRO:HG3	1:b:291:TYR:CE2	2.50	0.47
1:e:410:TRP:CE3	1:e:413:VAL:HG23	2.49	0.47
1:l:279:ARG:HD2	1:m:181:TRP:CG	2.50	0.47
1:l:291:TYR:CE2	1:m:383:PRO:HG3	2.50	0.47
1:u:84:GLN:HE21	1:u:95:PRO:HD2	1.79	0.47
1:u:90:LEU:HD13	1:u:342:VAL:HG12	1.91	0.47
1:w:90:LEU:HD13	1:w:342:VAL:HG12	1.91	0.47
1:7:260:ASN:O	1:7:560:LYS:HA	2.14	0.47
1:E:383:PRO:HG3	1:F:291:TYR:CE2	2.50	0.47
1:H:453:LYS:HB2	1:H:475:PRO:HG3	1.96	0.47
1:K:181:TRP:CG	1:8:279:ARG:HD2	2.50	0.47
1:R:337:ARG:NH1	1:U:379:ARG:O	2.42	0.47
1:S:279:ARG:HD2	1:U:181:TRP:CG	2.50	0.47
1:T:383:PRO:HG3	1:f:291:TYR:CE2	2.50	0.47
1:V:90:LEU:CD1	1:V:365:GLN:CD	2.83	0.47
1:W:453:LYS:HB2	1:W:475:PRO:HG3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:337:ARG:NH1	1:5:379:ARG:O	2.43	0.47
1:Z:279:ARG:HD2	1:x:181:TRP:CG	2.50	0.47
1:1:90:LEU:HD13	1:1:342:VAL:HG12	1.91	0.47
1:3:379:ARG:O	1:i:337:ARG:NH1	2.43	0.47
1:g:279:ARG:HD2	1:h:181:TRP:CG	2.50	0.47
1:j:262:ARG:HD2	1:j:405:ILE:HD12	1.95	0.47
1:w:181:TRP:CG	1:x:279:ARG:HD2	2.50	0.47
1:y:453:LYS:HB2	1:y:475:PRO:HG3	1.96	0.47
1:8:342:VAL:HG11	1:8:365:GLN:NE2	2.29	0.47
1:C:342:VAL:HG11	1:C:365:GLN:NE2	2.29	0.46
1:F:84:GLN:HE21	1:F:95:PRO:HD2	1.79	0.46
1:F:383:PRO:HG3	1:Q:291:TYR:CE2	2.50	0.46
1:K:291:TYR:CE2	1:1:383:PRO:HG3	2.50	0.46
1:M:90:LEU:CD1	1:M:365:GLN:CD	2.83	0.46
1:P:90:LEU:CD1	1:P:365:GLN:CD	2.83	0.46
1:U:84:GLN:HE21	1:U:95:PRO:HD2	1.79	0.46
1:W:291:TYR:CE2	1:Y:383:PRO:HG3	2.50	0.46
1:W:410:TRP:CE3	1:W:413:VAL:HG23	2.49	0.46
1:3:275:VAL:HG11	1:i:182:ASP:HB3	1.98	0.46
1:a:410:TRP:CE3	1:a:413:VAL:HG23	2.49	0.46
1:b:90:LEU:CD1	1:b:365:GLN:CD	2.83	0.46
1:d:90:LEU:CD1	1:d:365:GLN:CD	2.83	0.46
1:r:84:GLN:HE21	1:r:95:PRO:HD2	1.79	0.46
1:r:291:TYR:CE2	1:s:383:PRO:HG3	2.50	0.46
1:r:410:TRP:CE3	1:r:413:VAL:HG23	2.49	0.46
1:r:453:LYS:HB2	1:r:475:PRO:HG3	1.96	0.46
1:s:84:GLN:HE21	1:s:95:PRO:HD2	1.79	0.46
1:w:383:PRO:HG3	1:x:291:TYR:CE2	2.50	0.46
1:z:291:TYR:CE2	1:7:383:PRO:HG3	2.50	0.46
1:z:453:LYS:HB2	1:z:475:PRO:HG3	1.96	0.46
1:C:128:LYS:O	1:C:260:ASN:N	2.37	0.46
1:C:410:TRP:CE3	1:C:413:VAL:HG23	2.49	0.46
1:E:279:ARG:HD2	1:Q:181:TRP:CG	2.50	0.46
1:F:181:TRP:CG	1:Q:279:ARG:HD2	2.50	0.46
1:G:410:TRP:CE3	1:G:413:VAL:HG23	2.49	0.46
1:H:181:TRP:CG	1:Y:279:ARG:HD2	2.50	0.46
1:Q:410:TRP:CE3	1:Q:413:VAL:HG23	2.49	0.46
1:Q:453:LYS:HB2	1:Q:475:PRO:HG3	1.96	0.46
1:T:181:TRP:CG	1:f:279:ARG:HD2	2.50	0.46
1:Z:342:VAL:HG11	1:Z:365:GLN:NE2	2.29	0.46
1:3:84:GLN:HE21	1:3:95:PRO:HD2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:90:LEU:HD13	1:5:342:VAL:HG12	1.91	0.46
1:a:84:GLN:HE21	1:a:95:PRO:HD2	1.79	0.46
1:a:342:VAL:HG11	1:a:365:GLN:NE2	2.29	0.46
1:c:128:LYS:O	1:c:260:ASN:N	2.37	0.46
1:m:84:GLN:HE21	1:m:95:PRO:HD2	1.79	0.46
1:r:86:THR:OG1	1:r:324:ASP:OD2	2.27	0.46
1:v:342:VAL:HG11	1:v:365:GLN:NE2	2.29	0.46
1:z:410:TRP:CE3	1:z:413:VAL:HG23	2.49	0.46
1:7:410:TRP:CE3	1:7:413:VAL:HG23	2.50	0.46
1:A:84:GLN:HE21	1:A:95:PRO:HD2	1.79	0.46
1:A:330:ILE:HG13	1:I:306:MET:HE1	1.98	0.46
1:C:182:ASP:HB3	1:M:275:VAL:HG11	1.98	0.46
1:H:279:ARG:HD2	1:W:181:TRP:CG	2.50	0.46
1:I:84:GLN:HE21	1:I:95:PRO:HD2	1.79	0.46
1:L:453:LYS:HB2	1:L:475:PRO:HG3	1.96	0.46
1:O:279:ARG:HD2	1:g:181:TRP:CG	2.50	0.46
1:Q:84:GLN:HE21	1:Q:95:PRO:HD2	1.79	0.46
1:V:181:TRP:CG	1:X:279:ARG:HD2	2.50	0.46
1:W:275:VAL:HG11	1:Y:182:ASP:HB3	1.98	0.46
1:Y:410:TRP:CE3	1:Y:413:VAL:HG23	2.50	0.46
1:3:330:ILE:HG13	1:j:306:MET:HE1	1.98	0.46
1:a:182:ASP:HB3	1:b:275:VAL:HG11	1.98	0.46
1:g:291:TYR:CE2	1:h:383:PRO:HG3	2.50	0.46
1:i:291:TYR:CE2	1:j:383:PRO:HG3	2.50	0.46
1:k:337:ARG:NH1	1:m:379:ARG:O	2.42	0.46
1:n:410:TRP:CE3	1:n:413:VAL:HG23	2.49	0.46
1:q:279:ARG:HD2	1:r:181:TRP:CG	2.50	0.46
1:r:279:ARG:HD2	1:s:181:TRP:CG	2.50	0.46
1:t:453:LYS:HB2	1:t:475:PRO:HG3	1.96	0.46
1:u:275:VAL:HG11	1:v:182:ASP:HB3	1.98	0.46
1:x:86:THR:OG1	1:x:324:ASP:OD2	2.27	0.46
1:y:181:TRP:CG	1:7:279:ARG:HD2	2.50	0.46
1:z:275:VAL:HG11	1:7:182:ASP:HB3	1.98	0.46
1:C:275:VAL:HG11	1:2:182:ASP:HB3	1.98	0.46
1:H:291:TYR:CE2	1:W:383:PRO:HG3	2.50	0.46
1:H:383:PRO:HG3	1:Y:291:TYR:CE2	2.50	0.46
1:J:342:VAL:HG11	1:J:365:GLN:NE2	2.29	0.46
1:J:566:VAL:HG21	1:L:173:GLN:O	2.16	0.46
1:N:275:VAL:HG11	1:P:182:ASP:HB3	1.98	0.46
1:T:291:TYR:CE2	1:4:383:PRO:HG3	2.50	0.46
1:V:275:VAL:HG11	1:5:182:ASP:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:279:ARG:HD2	1:5:181:TRP:CG	2.50	0.46
1:V:306:MET:HE1	1:5:330:ILE:HG13	1.98	0.46
1:3:181:TRP:CG	1:j:279:ARG:HD2	2.50	0.46
1:4:275:VAL:HG11	1:f:182:ASP:HB3	1.97	0.46
1:c:275:VAL:HG11	1:d:182:ASP:HB3	1.98	0.46
1:l:128:LYS:O	1:l:260:ASN:N	2.37	0.46
1:o:84:GLN:HE21	1:o:95:PRO:HD2	1.79	0.46
1:o:306:MET:HE1	1:p:330:ILE:HG13	1.98	0.46
1:y:279:ARG:HD2	1:z:181:TRP:CG	2.50	0.46
1:y:383:PRO:HG3	1:7:291:TYR:CE2	2.50	0.46
1:H:86:THR:OG1	1:H:324:ASP:OD2	2.27	0.46
1:H:275:VAL:HG11	1:W:182:ASP:HB3	1.98	0.46
1:J:453:LYS:HB2	1:J:475:PRO:HG3	1.96	0.46
1:K:330:ILE:HG13	1:8:306:MET:HE1	1.98	0.46
1:K:383:PRO:HG3	1:8:291:TYR:CE2	2.50	0.46
1:O:182:ASP:HB3	1:h:275:VAL:HG11	1.97	0.46
1:O:260:ASN:O	1:O:560:LYS:HA	2.14	0.46
1:O:379:ARG:O	1:g:337:ARG:NH1	2.43	0.46
1:T:337:ARG:NH1	1:f:379:ARG:O	2.43	0.46
1:V:383:PRO:HG3	1:X:291:TYR:CE2	2.50	0.46
1:W:90:LEU:HD12	1:W:365:GLN:HE21	1.64	0.46
1:4:291:TYR:CE2	1:f:383:PRO:HG3	2.50	0.46
1:5:84:GLN:HE21	1:5:95:PRO:HD2	1.79	0.46
1:6:182:ASP:HB3	1:a:275:VAL:HG11	1.98	0.46
1:i:279:ARG:HD2	1:j:181:TRP:CG	2.50	0.46
1:n:279:ARG:HD2	1:o:181:TRP:CG	2.50	0.46
1:v:453:LYS:HB2	1:v:475:PRO:HG3	1.96	0.46
1:y:275:VAL:HG11	1:z:182:ASP:HB3	1.98	0.46
1:A:181:TRP:CG	1:I:279:ARG:HD2	2.50	0.46
1:B:291:TYR:CE2	1:J:383:PRO:HG3	2.50	0.46
1:G:279:ARG:HD2	1:I:181:TRP:CG	2.50	0.46
1:G:306:MET:HE1	1:I:330:ILE:HG13	1.98	0.46
1:M:181:TRP:CG	1:2:279:ARG:HD2	2.50	0.46
1:N:128:LYS:O	1:N:260:ASN:N	2.37	0.46
1:O:383:PRO:HG3	1:h:291:TYR:CE2	2.50	0.46
1:S:410:TRP:CE3	1:S:413:VAL:HG23	2.49	0.46
1:T:182:ASP:HB3	1:f:275:VAL:HG11	1.98	0.46
1:Z:306:MET:HE1	1:x:330:ILE:HG13	1.98	0.46
1:3:90:LEU:HD13	1:3:342:VAL:HG12	1.91	0.46
1:3:182:ASP:HB3	1:j:275:VAL:HG11	1.98	0.46
1:5:86:THR:OG1	1:5:324:ASP:OD2	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:128:LYS:O	1:a:260:ASN:N	2.37	0.46
1:f:260:ASN:O	1:f:560:LYS:HA	2.14	0.46
1:g:90:LEU:HD13	1:g:342:VAL:HG12	1.91	0.46
1:j:90:LEU:CD1	1:j:365:GLN:CD	2.83	0.46
1:n:306:MET:HE1	1:o:330:ILE:HG13	1.98	0.46
1:o:279:ARG:HD2	1:p:181:TRP:CG	2.50	0.46
1:p:84:GLN:HE21	1:p:95:PRO:HD2	1.79	0.46
1:t:330:ILE:HG13	1:v:306:MET:HE1	1.98	0.46
1:y:291:TYR:CE2	1:z:383:PRO:HG3	2.50	0.46
1:A:182:ASP:HB3	1:I:275:VAL:HG11	1.98	0.46
1:B:318:HIS:HD2	1:L:423:SER:HB2	1.81	0.46
1:D:182:ASP:HB3	1:P:275:VAL:HG11	1.98	0.46
1:D:306:MET:HE1	1:N:330:ILE:HG13	1.98	0.46
1:E:182:ASP:HB3	1:F:275:VAL:HG11	1.98	0.46
1:M:90:LEU:HD13	1:M:342:VAL:HG12	1.91	0.46
1:N:279:ARG:HD2	1:P:181:TRP:CG	2.50	0.46
1:O:181:TRP:CG	1:h:279:ARG:HD2	2.50	0.46
1:O:275:VAL:HG11	1:g:182:ASP:HB3	1.98	0.46
1:R:318:HIS:HD2	1:U:423:SER:HB2	1.81	0.46
1:T:275:VAL:HG11	1:4:182:ASP:HB3	1.98	0.46
1:X:128:LYS:O	1:X:260:ASN:N	2.37	0.46
1:Z:291:TYR:CE2	1:x:383:PRO:HG3	2.50	0.46
1:4:279:ARG:HD2	1:f:181:TRP:CG	2.50	0.46
1:b:90:LEU:HD13	1:b:342:VAL:HG12	1.91	0.46
1:c:279:ARG:HD2	1:d:181:TRP:CG	2.50	0.46
1:c:330:ILE:HG13	1:e:306:MET:HE1	1.98	0.46
1:d:275:VAL:HG11	1:e:182:ASP:HB3	1.98	0.46
1:d:279:ARG:HD2	1:e:181:TRP:CG	2.50	0.46
1:k:318:HIS:HD2	1:m:423:SER:HB2	1.81	0.46
1:l:410:TRP:CE3	1:l:413:VAL:HG23	2.49	0.46
1:t:182:ASP:HB3	1:v:275:VAL:HG11	1.98	0.46
1:t:423:SER:HB2	1:u:318:HIS:HD2	1.81	0.46
1:z:86:THR:OG1	1:z:324:ASP:OD2	2.27	0.46
1:A:128:LYS:O	1:A:260:ASN:N	2.37	0.46
1:B:306:MET:HE1	1:J:330:ILE:HG13	1.98	0.46
1:G:291:TYR:CE2	1:I:383:PRO:HG3	2.50	0.46
1:M:182:ASP:HB3	1:2:275:VAL:HG11	1.97	0.46
1:W:86:THR:OG1	1:W:324:ASP:OD2	2.27	0.46
1:3:86:THR:OG1	1:3:324:ASP:OD2	2.27	0.46
1:6:279:ARG:HD2	1:b:181:TRP:CG	2.50	0.46
1:b:106:LEU:HD23	1:b:194:TRP:CZ3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:275:VAL:HG11	1:h:182:ASP:HB3	1.98	0.46
1:q:182:ASP:HB3	1:s:275:VAL:HG11	1.98	0.46
1:x:106:LEU:HD23	1:x:194:TRP:CZ3	2.51	0.46
1:C:90:LEU:HD13	1:C:342:VAL:HG12	1.91	0.46
1:D:181:TRP:CG	1:P:279:ARG:HD2	2.50	0.46
1:E:106:LEU:HD23	1:E:194:TRP:CZ3	2.51	0.46
1:H:182:ASP:HB3	1:Y:275:VAL:HG11	1.98	0.46
1:I:106:LEU:HA	1:I:194:TRP:HH2	1.81	0.46
1:I:106:LEU:HD23	1:I:194:TRP:CZ3	2.51	0.46
1:K:106:LEU:HD23	1:K:194:TRP:CZ3	2.51	0.46
1:M:106:LEU:HD23	1:M:194:TRP:CZ3	2.51	0.46
1:O:106:LEU:HD23	1:O:194:TRP:CZ3	2.51	0.46
1:S:128:LYS:O	1:S:260:ASN:N	2.37	0.46
1:3:106:LEU:HA	1:3:194:TRP:HH2	1.81	0.46
1:f:106:LEU:HD23	1:f:194:TRP:CZ3	2.51	0.46
1:i:128:LYS:O	1:i:260:ASN:N	2.37	0.46
1:n:181:TRP:CG	1:p:279:ARG:HD2	2.50	0.46
1:n:291:TYR:CE2	1:o:383:PRO:HG3	2.50	0.46
1:n:342:VAL:HG11	1:n:365:GLN:NE2	2.29	0.46
1:o:106:LEU:HD23	1:o:194:TRP:CZ3	2.51	0.46
1:o:106:LEU:HA	1:o:194:TRP:HH2	1.81	0.46
1:o:275:VAL:HG11	1:p:182:ASP:HB3	1.98	0.46
1:u:306:MET:HE1	1:v:330:ILE:HG13	1.98	0.46
1:y:86:THR:OG1	1:y:324:ASP:OD2	2.27	0.46
1:y:182:ASP:HB3	1:7:275:VAL:HG11	1.98	0.46
1:z:342:VAL:HG11	1:z:365:GLN:NE2	2.29	0.46
1:A:279:ARG:HD2	1:G:181:TRP:CG	2.50	0.46
1:C:291:TYR:CE2	1:2:383:PRO:HG3	2.50	0.46
1:G:106:LEU:HA	1:G:194:TRP:HH2	1.81	0.46
1:H:337:ARG:NH1	1:Y:379:ARG:O	2.43	0.46
1:N:106:LEU:HD23	1:N:194:TRP:CZ3	2.51	0.46
1:R:279:ARG:HD2	1:S:181:TRP:CG	2.51	0.46
1:T:205:GLN:HE22	1:T:334:ILE:HB	1.81	0.46
1:W:279:ARG:HD2	1:Y:181:TRP:CG	2.50	0.46
1:W:342:VAL:HG11	1:W:365:GLN:NE2	2.29	0.46
1:5:106:LEU:HA	1:5:194:TRP:HH2	1.81	0.46
1:a:181:TRP:CG	1:b:279:ARG:HD2	2.50	0.46
1:c:106:LEU:HD23	1:c:194:TRP:CZ3	2.51	0.46
1:g:205:GLN:HE22	1:g:334:ILE:HB	1.81	0.46
1:k:306:MET:HE1	1:l:330:ILE:HG13	1.98	0.46
1:n:106:LEU:HA	1:n:194:TRP:HH2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:106:LEU:HD23	1:q:194:TRP:CZ3	2.51	0.46
1:q:342:VAL:HG11	1:q:365:GLN:NE2	2.29	0.46
1:u:279:ARG:HD2	1:v:181:TRP:CG	2.51	0.46
1:z:279:ARG:HD2	1:7:181:TRP:CG	2.50	0.46
1:C:181:TRP:CG	1:M:279:ARG:HD2	2.50	0.45
1:E:342:VAL:HG11	1:E:365:GLN:NE2	2.29	0.45
1:H:306:MET:HE1	1:W:330:ILE:HG13	1.98	0.45
1:K:342:VAL:HG11	1:K:365:GLN:NE2	2.29	0.45
1:Q:106:LEU:HA	1:Q:194:TRP:HH2	1.81	0.45
1:R:106:LEU:HA	1:R:194:TRP:HH2	1.81	0.45
1:R:306:MET:HE1	1:S:330:ILE:HG13	1.98	0.45
1:Z:106:LEU:HA	1:Z:194:TRP:HH2	1.81	0.45
1:2:106:LEU:HD23	1:2:194:TRP:CZ3	2.51	0.45
1:6:275:VAL:HG11	1:b:182:ASP:HB3	1.98	0.45
1:6:383:PRO:HG3	1:a:291:TYR:CE2	2.50	0.45
1:i:106:LEU:HA	1:i:194:TRP:HH2	1.81	0.45
1:k:106:LEU:HA	1:k:194:TRP:HH2	1.81	0.45
1:k:279:ARG:HD2	1:l:181:TRP:CG	2.51	0.45
1:r:128:LYS:O	1:r:260:ASN:N	2.37	0.45
1:u:291:TYR:CE2	1:v:383:PRO:HG3	2.50	0.45
1:z:106:LEU:HD23	1:z:194:TRP:CZ3	2.51	0.45
1:8:106:LEU:HA	1:8:194:TRP:HH2	1.81	0.45
1:F:330:ILE:HG13	1:Q:306:MET:HE1	1.98	0.45
1:G:84:GLN:HE21	1:G:95:PRO:HD2	1.79	0.45
1:G:342:VAL:HG11	1:G:365:GLN:NE2	2.29	0.45
1:L:106:LEU:HD23	1:L:194:TRP:CZ3	2.51	0.45
1:V:182:ASP:HB3	1:X:275:VAL:HG11	1.98	0.45
1:W:106:LEU:HD23	1:W:194:TRP:CZ3	2.51	0.45
1:6:106:LEU:HD23	1:6:194:TRP:CZ3	2.51	0.45
1:a:330:ILE:HG13	1:b:306:MET:HE1	1.98	0.45
1:d:90:LEU:HD12	1:d:365:GLN:HE21	1.64	0.45
1:p:128:LYS:O	1:p:260:ASN:N	2.37	0.45
1:r:106:LEU:HA	1:r:194:TRP:HH2	1.81	0.45
1:r:306:MET:HE1	1:s:330:ILE:HG13	1.98	0.45
1:t:106:LEU:HA	1:t:194:TRP:HH2	1.81	0.45
1:t:306:MET:HE1	1:u:330:ILE:HG13	1.98	0.45
1:y:106:LEU:HA	1:y:194:TRP:HH2	1.81	0.45
1:y:306:MET:HE1	1:z:330:ILE:HG13	1.98	0.45
1:z:90:LEU:HD12	1:z:365:GLN:HE21	1.64	0.45
1:A:106:LEU:HA	1:A:194:TRP:HH2	1.81	0.45
1:B:330:ILE:HG13	1:L:306:MET:HE1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:330:ILE:HG13	1:M:306:MET:HE1	1.98	0.45
1:D:275:VAL:HG11	1:N:182:ASP:HB3	1.98	0.45
1:E:275:VAL:HG11	1:Q:182:ASP:HB3	1.98	0.45
1:F:90:LEU:CD1	1:F:365:GLN:CD	2.83	0.45
1:F:367:GLY:O	1:Q:300:LYS:NZ	2.48	0.45
1:H:106:LEU:HA	1:H:194:TRP:HH2	1.81	0.45
1:L:205:GLN:HE22	1:L:334:ILE:HB	1.82	0.45
1:O:84:GLN:HE21	1:O:95:PRO:HD2	1.79	0.45
1:R:90:LEU:HD13	1:R:342:VAL:HG12	1.91	0.45
1:T:306:MET:HE1	1:4:330:ILE:HG13	1.98	0.45
1:U:205:GLN:HE22	1:U:334:ILE:HB	1.82	0.45
1:X:106:LEU:HA	1:X:194:TRP:HH2	1.82	0.45
1:1:306:MET:HE1	1:8:330:ILE:HG13	1.98	0.45
1:a:90:LEU:HD13	1:a:342:VAL:HG12	1.91	0.45
1:g:306:MET:HE1	1:h:330:ILE:HG13	1.98	0.45
1:j:262:ARG:CD	1:j:405:ILE:HD12	2.47	0.45
1:m:205:GLN:HE22	1:m:334:ILE:HB	1.82	0.45
1:n:84:GLN:HE21	1:n:95:PRO:HD2	1.78	0.45
1:t:106:LEU:HD23	1:t:194:TRP:CZ3	2.51	0.45
1:t:205:GLN:HE22	1:t:334:ILE:HB	1.82	0.45
1:A:337:ARG:NH1	1:I:379:ARG:O	2.43	0.45
1:B:279:ARG:HD2	1:J:181:TRP:CG	2.51	0.45
1:E:106:LEU:HA	1:E:194:TRP:HH2	1.81	0.45
1:F:262:ARG:CD	1:F:405:ILE:HD12	2.47	0.45
1:J:262:ARG:CD	1:J:405:ILE:HD12	2.47	0.45
1:K:86:THR:OG1	1:K:324:ASP:OD2	2.27	0.45
1:L:106:LEU:HA	1:L:194:TRP:HH2	1.81	0.45
1:S:306:MET:HE1	1:U:330:ILE:HG13	1.98	0.45
1:V:262:ARG:CD	1:V:405:ILE:HD12	2.47	0.45
1:W:106:LEU:HA	1:W:194:TRP:HH2	1.81	0.45
1:Y:106:LEU:HD23	1:Y:194:TRP:CZ3	2.51	0.45
1:Z:262:ARG:CD	1:Z:405:ILE:HD12	2.47	0.45
1:3:306:MET:HE1	1:i:330:ILE:HG13	1.98	0.45
1:3:342:VAL:HG11	1:3:365:GLN:NE2	2.29	0.45
1:5:205:GLN:HE22	1:5:334:ILE:HB	1.81	0.45
1:6:306:MET:HE1	1:b:330:ILE:HG13	1.98	0.45
1:c:182:ASP:HB3	1:e:275:VAL:HG11	1.98	0.45
1:i:275:VAL:HG11	1:j:182:ASP:HB3	1.98	0.45
1:l:306:MET:HE1	1:m:330:ILE:HG13	1.98	0.45
1:m:106:LEU:HD23	1:m:194:TRP:CZ3	2.51	0.45
1:o:379:ARG:O	1:p:337:ARG:NH1	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:106:LEU:HA	1:q:194:TRP:HH2	1.81	0.45
1:s:262:ARG:CD	1:s:405:ILE:HD12	2.47	0.45
1:v:262:ARG:CD	1:v:405:ILE:HD12	2.47	0.45
1:x:342:VAL:HG11	1:x:365:GLN:NE2	2.29	0.45
1:z:106:LEU:HA	1:z:194:TRP:HH2	1.81	0.45
1:8:262:ARG:CD	1:8:405:ILE:HD12	2.47	0.45
1:A:106:LEU:HD23	1:A:194:TRP:CZ3	2.51	0.45
1:B:262:ARG:CD	1:B:405:ILE:HD12	2.47	0.45
1:F:106:LEU:HA	1:F:194:TRP:HH2	1.81	0.45
1:H:106:LEU:HD23	1:H:194:TRP:CZ3	2.51	0.45
1:J:306:MET:HE1	1:L:330:ILE:HG13	1.98	0.45
1:K:306:MET:HE1	1:I:330:ILE:HG13	1.98	0.45
1:L:262:ARG:CD	1:L:405:ILE:HD12	2.47	0.45
1:M:262:ARG:CD	1:M:405:ILE:HD12	2.47	0.45
1:M:330:ILE:HG13	1:2:306:MET:HE1	1.98	0.45
1:R:182:ASP:HB3	1:U:275:VAL:HG11	1.99	0.45
1:T:262:ARG:CD	1:T:405:ILE:HD12	2.47	0.45
1:U:106:LEU:HD23	1:U:194:TRP:CZ3	2.51	0.45
1:X:330:ILE:HG13	1:5:306:MET:HE1	1.98	0.45
1:Y:106:LEU:HA	1:Y:194:TRP:HH2	1.81	0.45
1:Z:330:ILE:HG13	1:w:306:MET:HE1	1.98	0.45
1:3:205:GLN:HE22	1:3:334:ILE:HB	1.82	0.45
1:a:106:LEU:HD23	1:a:194:TRP:CZ3	2.51	0.45
1:b:262:ARG:CD	1:b:405:ILE:HD12	2.47	0.45
1:f:84:GLN:HE21	1:f:95:PRO:HD2	1.79	0.45
1:h:106:LEU:HD23	1:h:194:TRP:CZ3	2.51	0.45
1:h:106:LEU:HA	1:h:194:TRP:HH2	1.81	0.45
1:k:90:LEU:HD13	1:k:342:VAL:HG12	1.91	0.45
1:k:182:ASP:HB3	1:m:275:VAL:HG11	1.99	0.45
1:n:182:ASP:HB3	1:p:275:VAL:HG11	1.98	0.45
1:p:106:LEU:HD23	1:p:194:TRP:CZ3	2.51	0.45
1:p:106:LEU:HA	1:p:194:TRP:HH2	1.81	0.45
1:p:205:GLN:HE22	1:p:334:ILE:HB	1.82	0.45
1:q:275:VAL:HG11	1:r:182:ASP:HB3	1.98	0.45
1:t:262:ARG:CD	1:t:405:ILE:HD12	2.47	0.45
1:u:262:ARG:CD	1:u:405:ILE:HD12	2.47	0.45
1:w:330:ILE:HG13	1:x:306:MET:HE1	1.98	0.45
1:y:106:LEU:HD23	1:y:194:TRP:CZ3	2.51	0.45
1:7:106:LEU:HD23	1:7:194:TRP:CZ3	2.51	0.45
1:7:106:LEU:HA	1:7:194:TRP:HH2	1.81	0.45
1:B:106:LEU:HD23	1:B:194:TRP:CZ3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:262:ARG:CD	1:O:405:ILE:HD12	2.47	0.45
1:O:330:ILE:HG13	1:h:306:MET:HE1	1.98	0.45
1:P:128:LYS:O	1:P:260:ASN:N	2.37	0.45
1:R:275:VAL:HG11	1:S:182:ASP:HB3	1.98	0.45
1:T:330:ILE:HG13	1:f:306:MET:HE1	1.98	0.45
1:U:537:GLU:HG2	1:U:540:ASN:HB3	1.99	0.45
1:Y:262:ARG:CD	1:Y:405:ILE:HD12	2.47	0.45
1:1:106:LEU:HD23	1:1:194:TRP:CZ3	2.51	0.45
1:1:205:GLN:HE22	1:1:334:ILE:HB	1.82	0.45
1:3:262:ARG:CD	1:3:405:ILE:HD12	2.47	0.45
1:4:106:LEU:HD23	1:4:194:TRP:CZ3	2.51	0.45
1:4:106:LEU:HA	1:4:194:TRP:HH2	1.81	0.45
1:4:306:MET:HE1	1:f:330:ILE:HG13	1.98	0.45
1:5:342:VAL:HG11	1:5:365:GLN:NE2	2.29	0.45
1:b:205:GLN:HE22	1:b:334:ILE:HB	1.82	0.45
1:g:262:ARG:CD	1:g:405:ILE:HD12	2.47	0.45
1:k:106:LEU:HD23	1:k:194:TRP:CZ3	2.51	0.45
1:k:177:ALA:HA	1:m:270:ASP:O	2.17	0.45
1:k:275:VAL:HG11	1:l:182:ASP:HB3	1.98	0.45
1:m:537:GLU:HG2	1:m:540:ASN:HB3	1.99	0.45
1:q:128:LYS:O	1:q:260:ASN:N	2.37	0.45
1:q:306:MET:HE1	1:r:330:ILE:HG13	1.98	0.45
1:s:106:LEU:HA	1:s:194:TRP:HH2	1.81	0.45
1:t:270:ASP:O	1:u:177:ALA:HA	2.17	0.45
1:v:106:LEU:HA	1:v:194:TRP:HH2	1.81	0.45
1:w:182:ASP:HB3	1:x:275:VAL:HG11	1.98	0.45
1:w:205:GLN:HE22	1:w:334:ILE:HB	1.82	0.45
1:7:262:ARG:CD	1:7:405:ILE:HD12	2.47	0.45
1:A:205:GLN:HE22	1:A:334:ILE:HB	1.82	0.45
1:A:275:VAL:HG11	1:G:182:ASP:HB3	1.98	0.45
1:B:177:ALA:HA	1:L:270:ASP:O	2.17	0.45
1:C:106:LEU:HD23	1:C:194:TRP:CZ3	2.51	0.45
1:D:205:GLN:HE22	1:D:334:ILE:HB	1.82	0.45
1:E:306:MET:HE1	1:Q:330:ILE:HG13	1.98	0.45
1:G:275:VAL:HG11	1:I:182:ASP:HB3	1.98	0.45
1:H:537:GLU:HG2	1:H:540:ASN:HB3	1.99	0.45
1:J:90:LEU:CD1	1:J:365:GLN:CD	2.83	0.45
1:K:275:VAL:HG11	1:1:182:ASP:HB3	1.98	0.45
1:O:306:MET:HE1	1:g:330:ILE:HG13	1.98	0.45
1:P:106:LEU:HA	1:P:194:TRP:HH2	1.81	0.45
1:Q:262:ARG:CD	1:Q:405:ILE:HD12	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:177:ALA:HA	1:U:270:ASP:O	2.17	0.45
1:S:106:LEU:HA	1:S:194:TRP:HH2	1.81	0.45
1:T:106:LEU:HD23	1:T:194:TRP:CZ3	2.51	0.45
1:V:106:LEU:HD23	1:V:194:TRP:CZ3	2.51	0.45
1:1:106:LEU:HA	1:1:194:TRP:HH2	1.81	0.45
1:1:275:VAL:HG11	1:8:182:ASP:HB3	1.97	0.45
1:5:90:LEU:HD12	1:5:365:GLN:HE21	1.65	0.45
1:5:262:ARG:CD	1:5:405:ILE:HD12	2.47	0.45
1:6:337:ARG:NH1	1:a:379:ARG:O	2.43	0.45
1:a:106:LEU:HA	1:a:194:TRP:HH2	1.81	0.45
1:f:262:ARG:CD	1:f:405:ILE:HD12	2.47	0.45
1:g:106:LEU:HD23	1:g:194:TRP:CZ3	2.51	0.45
1:i:205:GLN:HE22	1:i:334:ILE:HB	1.82	0.45
1:j:106:LEU:HD23	1:j:194:TRP:CZ3	2.51	0.45
1:l:106:LEU:HA	1:l:194:TRP:HH2	1.81	0.45
1:l:205:GLN:HE22	1:l:334:ILE:HB	1.82	0.45
1:n:275:VAL:HG11	1:o:182:ASP:HB3	1.98	0.45
1:n:537:GLU:HG2	1:n:540:ASN:HB3	1.99	0.45
1:s:537:GLU:HG2	1:s:540:ASN:HB3	1.99	0.45
1:u:106:LEU:HD23	1:u:194:TRP:CZ3	2.51	0.45
1:u:300:LYS:NZ	1:v:367:GLY:O	2.48	0.45
1:w:106:LEU:HD23	1:w:194:TRP:CZ3	2.51	0.45
1:w:342:VAL:HG11	1:w:365:GLN:NE2	2.29	0.45
1:y:537:GLU:HG2	1:y:540:ASN:HB3	1.99	0.45
1:8:106:LEU:HD23	1:8:194:TRP:CZ3	2.51	0.45
1:A:262:ARG:CD	1:A:405:ILE:HD12	2.47	0.45
1:C:106:LEU:HA	1:C:194:TRP:HH2	1.81	0.45
1:D:262:ARG:CD	1:D:405:ILE:HD12	2.47	0.45
1:E:205:GLN:HE22	1:E:334:ILE:HB	1.82	0.45
1:E:537:GLU:HG2	1:E:540:ASN:HB3	1.99	0.45
1:F:537:GLU:HG2	1:F:540:ASN:HB3	1.99	0.45
1:G:262:ARG:CD	1:G:405:ILE:HD12	2.47	0.45
1:G:537:GLU:HG2	1:G:540:ASN:HB3	1.99	0.45
1:K:262:ARG:CD	1:K:405:ILE:HD12	2.47	0.45
1:M:205:GLN:HE22	1:M:334:ILE:HB	1.82	0.45
1:Q:106:LEU:HD23	1:Q:194:TRP:CZ3	2.51	0.45
1:Q:205:GLN:HE22	1:Q:334:ILE:HB	1.81	0.45
1:R:106:LEU:HD23	1:R:194:TRP:CZ3	2.51	0.45
1:S:275:VAL:HG11	1:U:182:ASP:HB3	1.98	0.45
1:S:537:GLU:HG2	1:S:540:ASN:HB3	1.99	0.45
1:U:262:ARG:CD	1:U:405:ILE:HD12	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:106:LEU:HD23	1:Z:194:TRP:CZ3	2.51	0.45
1:Z:182:ASP:HB3	1:w:275:VAL:HG11	1.97	0.45
1:1:90:LEU:HD12	1:1:365:GLN:HE21	1.65	0.45
1:2:90:LEU:CD1	1:2:365:GLN:CD	2.83	0.45
1:2:106:LEU:HA	1:2:194:TRP:HH2	1.81	0.45
1:2:205:GLN:HE22	1:2:334:ILE:HB	1.82	0.45
1:3:537:GLU:HG2	1:3:540:ASN:HB3	1.99	0.45
1:5:537:GLU:HG2	1:5:540:ASN:HB3	1.99	0.45
1:6:90:LEU:CD1	1:6:365:GLN:CD	2.83	0.45
1:6:330:ILE:HG13	1:a:306:MET:HE1	1.98	0.45
1:d:106:LEU:HA	1:d:194:TRP:HH2	1.81	0.45
1:e:262:ARG:CD	1:e:405:ILE:HD12	2.47	0.45
1:e:342:VAL:HG11	1:e:365:GLN:NE2	2.29	0.45
1:l:275:VAL:HG11	1:m:182:ASP:HB3	1.98	0.45
1:l:537:GLU:HG2	1:l:540:ASN:HB3	1.99	0.45
1:m:262:ARG:CD	1:m:405:ILE:HD12	2.47	0.45
1:n:106:LEU:HD23	1:n:194:TRP:CZ3	2.51	0.45
1:p:262:ARG:CD	1:p:405:ILE:HD12	2.47	0.45
1:q:205:GLN:HE22	1:q:334:ILE:HB	1.82	0.45
1:q:537:GLU:HG2	1:q:540:ASN:HB3	1.99	0.45
1:r:106:LEU:HD23	1:r:194:TRP:CZ3	2.51	0.45
1:r:205:GLN:HE22	1:r:334:ILE:HB	1.81	0.45
1:r:262:ARG:CD	1:r:405:ILE:HD12	2.47	0.45
1:x:262:ARG:CD	1:x:405:ILE:HD12	2.47	0.45
1:x:537:GLU:HG2	1:x:540:ASN:HB3	1.99	0.45
1:z:262:ARG:CD	1:z:405:ILE:HD12	2.47	0.45
1:A:306:MET:HE1	1:G:330:ILE:HG13	1.98	0.45
1:D:342:VAL:HG11	1:D:365:GLN:NE2	2.29	0.45
1:F:90:LEU:CD1	1:F:342:VAL:CG1	2.78	0.45
1:F:182:ASP:HB3	1:Q:275:VAL:HG11	1.98	0.45
1:G:93:ALA:HB3	1:G:206:GLY:O	2.17	0.45
1:G:106:LEU:HD23	1:G:194:TRP:CZ3	2.51	0.45
1:G:205:GLN:HE22	1:G:334:ILE:HB	1.82	0.45
1:J:93:ALA:HB3	1:J:206:GLY:O	2.17	0.45
1:J:106:LEU:HA	1:J:194:TRP:HH2	1.81	0.45
1:K:93:ALA:HB3	1:K:206:GLY:O	2.17	0.45
1:N:379:ARG:O	1:P:337:ARG:NH1	2.43	0.45
1:O:93:ALA:HB3	1:O:206:GLY:O	2.17	0.45
1:O:537:GLU:HG2	1:O:540:ASN:HB3	1.99	0.45
1:P:90:LEU:HD12	1:P:365:GLN:HE21	1.64	0.45
1:S:106:LEU:HD23	1:S:194:TRP:CZ3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:205:GLN:HE22	1:S:334:ILE:HB	1.82	0.45
1:X:106:LEU:HD23	1:X:194:TRP:CZ3	2.51	0.45
1:Y:93:ALA:HB3	1:Y:206:GLY:O	2.17	0.45
1:6:205:GLN:HE22	1:6:334:ILE:HB	1.82	0.45
1:c:379:ARG:O	1:d:337:ARG:NH1	2.43	0.45
1:e:205:GLN:HE22	1:e:334:ILE:HB	1.82	0.45
1:f:93:ALA:HB3	1:f:206:GLY:O	2.17	0.45
1:f:106:LEU:HA	1:f:194:TRP:HH2	1.81	0.45
1:f:537:GLU:HG2	1:f:540:ASN:HB3	1.99	0.45
1:h:537:GLU:HG2	1:h:540:ASN:HB3	1.99	0.45
1:k:330:ILE:HG13	1:m:306:MET:HE1	1.98	0.45
1:k:342:VAL:HG11	1:k:365:GLN:NE2	2.29	0.45
1:l:106:LEU:HD23	1:l:194:TRP:CZ3	2.51	0.45
1:n:93:ALA:HB3	1:n:206:GLY:O	2.17	0.45
1:n:205:GLN:HE22	1:n:334:ILE:HB	1.82	0.45
1:n:262:ARG:CD	1:n:405:ILE:HD12	2.47	0.45
1:n:330:ILE:HG13	1:p:306:MET:HE1	1.98	0.45
1:s:205:GLN:HE22	1:s:334:ILE:HB	1.82	0.45
1:v:90:LEU:CD1	1:v:365:GLN:CD	2.83	0.45
1:v:93:ALA:HB3	1:v:206:GLY:O	2.17	0.45
1:w:106:LEU:HA	1:w:194:TRP:HH2	1.81	0.45
1:x:93:ALA:HB3	1:x:206:GLY:O	2.17	0.45
1:7:205:GLN:HE22	1:7:334:ILE:HB	1.82	0.45
1:C:379:ARG:O	1:2:337:ARG:NH1	2.43	0.45
1:E:128:LYS:O	1:E:260:ASN:N	2.37	0.45
1:F:205:GLN:HE22	1:F:334:ILE:HB	1.82	0.45
1:K:537:GLU:HG2	1:K:540:ASN:HB3	1.99	0.45
1:L:128:LYS:O	1:L:260:ASN:N	2.37	0.45
1:L:138:ARG:HE	1:L:246:MET:HE1	1.82	0.45
1:P:205:GLN:HE22	1:P:334:ILE:HB	1.82	0.45
1:R:262:ARG:CD	1:R:405:ILE:HD12	2.47	0.45
1:R:330:ILE:HG13	1:U:306:MET:HE1	1.98	0.45
1:U:90:LEU:CD1	1:U:365:GLN:CD	2.83	0.45
1:V:106:LEU:HA	1:V:194:TRP:HH2	1.81	0.45
1:V:138:ARG:HE	1:V:246:MET:HE1	1.82	0.45
1:W:262:ARG:CD	1:W:405:ILE:HD12	2.47	0.45
1:W:306:MET:HE1	1:Y:330:ILE:HG13	1.98	0.45
1:X:205:GLN:HE22	1:X:334:ILE:HB	1.82	0.45
1:Y:205:GLN:HE22	1:Y:334:ILE:HB	1.82	0.45
1:1:342:VAL:HG11	1:1:365:GLN:NE2	2.29	0.45
1:3:106:LEU:HD23	1:3:194:TRP:CZ3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:84:GLN:HE21	1:4:95:PRO:HD2	1.79	0.45
1:4:537:GLU:HG2	1:4:540:ASN:HB3	1.99	0.45
1:6:106:LEU:HA	1:6:194:TRP:HH2	1.81	0.45
1:c:306:MET:HE1	1:d:330:ILE:HG13	1.98	0.45
1:d:205:GLN:HE22	1:d:334:ILE:HB	1.82	0.45
1:e:106:LEU:HA	1:e:194:TRP:HH2	1.81	0.45
1:g:380:THR:O	1:g:384:THR:OG1	2.33	0.45
1:i:106:LEU:HD23	1:i:194:TRP:CZ3	2.51	0.45
1:k:93:ALA:HB3	1:k:206:GLY:O	2.17	0.45
1:k:262:ARG:CD	1:k:405:ILE:HD12	2.47	0.45
1:m:90:LEU:CD1	1:m:365:GLN:CD	2.83	0.45
1:r:138:ARG:HE	1:r:246:MET:HE1	1.82	0.45
1:r:275:VAL:HG11	1:s:182:ASP:HB3	1.98	0.45
1:s:90:LEU:CD1	1:s:365:GLN:CD	2.83	0.45
1:w:537:GLU:HG2	1:w:540:ASN:HB3	1.99	0.45
1:z:205:GLN:HE22	1:z:334:ILE:HB	1.82	0.45
1:z:306:MET:HE1	1:7:330:ILE:HG13	1.98	0.45
1:7:93:ALA:HB3	1:7:206:GLY:O	2.17	0.45
1:A:90:LEU:CD1	1:A:365:GLN:CD	2.83	0.44
1:C:306:MET:HE1	1:2:330:ILE:HG13	1.98	0.44
1:D:106:LEU:HD23	1:D:194:TRP:CZ3	2.51	0.44
1:H:205:GLN:HE22	1:H:334:ILE:HB	1.82	0.44
1:J:291:TYR:CD2	1:L:383:PRO:HG3	2.52	0.44
1:M:537:GLU:HG2	1:M:540:ASN:HB3	1.99	0.44
1:N:306:MET:HE1	1:P:330:ILE:HG13	1.98	0.44
1:O:106:LEU:HA	1:O:194:TRP:HH2	1.82	0.44
1:P:537:GLU:HG2	1:P:540:ASN:HB3	1.99	0.44
1:Q:138:ARG:HE	1:Q:246:MET:HE1	1.82	0.44
1:R:93:ALA:HB3	1:R:206:GLY:O	2.17	0.44
1:R:342:VAL:HG11	1:R:365:GLN:NE2	2.29	0.44
1:R:380:THR:O	1:R:384:THR:OG1	2.33	0.44
1:W:205:GLN:HE22	1:W:334:ILE:HB	1.82	0.44
1:1:93:ALA:HB3	1:1:206:GLY:O	2.17	0.44
1:1:537:GLU:HG2	1:1:540:ASN:HB3	1.99	0.44
1:5:93:ALA:HB3	1:5:206:GLY:O	2.17	0.44
1:5:106:LEU:HD23	1:5:194:TRP:CZ3	2.51	0.44
1:6:342:VAL:HG11	1:6:365:GLN:NE2	2.29	0.44
1:d:128:LYS:O	1:d:260:ASN:N	2.37	0.44
1:p:90:LEU:CD1	1:p:365:GLN:CD	2.83	0.44
1:s:106:LEU:HD23	1:s:194:TRP:CZ3	2.51	0.44
1:t:138:ARG:HE	1:t:246:MET:HE1	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:106:LEU:HA	1:u:194:TRP:HH2	1.81	0.44
1:v:138:ARG:HE	1:v:246:MET:HE1	1.82	0.44
1:w:93:ALA:HB3	1:w:206:GLY:O	2.17	0.44
1:y:205:GLN:HE22	1:y:334:ILE:HB	1.82	0.44
1:y:262:ARG:CD	1:y:405:ILE:HD12	2.47	0.44
1:E:262:ARG:CD	1:E:405:ILE:HD12	2.47	0.44
1:F:106:LEU:HD23	1:F:194:TRP:CZ3	2.51	0.44
1:H:262:ARG:CD	1:H:405:ILE:HD12	2.47	0.44
1:J:138:ARG:HE	1:J:246:MET:HE1	1.82	0.44
1:K:90:LEU:CD1	1:K:365:GLN:CD	2.83	0.44
1:K:205:GLN:HE22	1:K:334:ILE:HB	1.81	0.44
1:P:106:LEU:HD23	1:P:194:TRP:CZ3	2.51	0.44
1:S:93:ALA:HB3	1:S:206:GLY:O	2.17	0.44
1:S:262:ARG:CD	1:S:405:ILE:HD12	2.47	0.44
1:T:90:LEU:CD1	1:T:365:GLN:CD	2.83	0.44
1:T:379:ARG:O	1:4:337:ARG:NH1	2.43	0.44
1:T:380:THR:O	1:T:384:THR:OG1	2.33	0.44
1:Z:138:ARG:HE	1:Z:246:MET:HE1	1.82	0.44
1:3:90:LEU:HD12	1:3:365:GLN:HE21	1.65	0.44
1:3:93:ALA:HB3	1:3:206:GLY:O	2.17	0.44
1:6:262:ARG:CD	1:6:405:ILE:HD12	2.47	0.44
1:b:106:LEU:HA	1:b:194:TRP:HH2	1.81	0.44
1:b:537:GLU:HG2	1:b:540:ASN:HB3	1.99	0.44
1:d:106:LEU:HD23	1:d:194:TRP:CZ3	2.51	0.44
1:d:537:GLU:HG2	1:d:540:ASN:HB3	1.99	0.44
1:g:90:LEU:CD1	1:g:365:GLN:CD	2.83	0.44
1:g:93:ALA:HB3	1:g:206:GLY:O	2.17	0.44
1:g:537:GLU:HG2	1:g:540:ASN:HB3	1.99	0.44
1:h:84:GLN:HE21	1:h:95:PRO:HD2	1.79	0.44
1:j:106:LEU:HA	1:j:194:TRP:HH2	1.81	0.44
1:k:380:THR:O	1:k:384:THR:OG1	2.33	0.44
1:l:93:ALA:HB3	1:l:206:GLY:O	2.17	0.44
1:l:262:ARG:CD	1:l:405:ILE:HD12	2.47	0.44
1:q:330:ILE:HG13	1:s:306:MET:HE1	1.98	0.44
1:t:128:LYS:O	1:t:260:ASN:N	2.37	0.44
1:x:90:LEU:CD1	1:x:365:GLN:CD	2.83	0.44
1:x:205:GLN:HE22	1:x:334:ILE:HB	1.81	0.44
1:A:300:LYS:NZ	1:G:367:GLY:O	2.48	0.44
1:B:106:LEU:HA	1:B:194:TRP:HH2	1.81	0.44
1:B:205:GLN:HE22	1:B:334:ILE:HB	1.82	0.44
1:B:367:GLY:O	1:L:300:LYS:NZ	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:106:LEU:HA	1:D:194:TRP:HH2	1.81	0.44
1:D:537:GLU:HG2	1:D:540:ASN:HB3	1.99	0.44
1:E:330:ILE:HG13	1:F:306:MET:HE1	1.98	0.44
1:H:367:GLY:O	1:Y:300:LYS:NZ	2.48	0.44
1:J:537:GLU:HG2	1:J:540:ASN:HB3	1.99	0.44
1:K:182:ASP:HB3	1:8:275:VAL:HG11	1.98	0.44
1:M:106:LEU:HA	1:M:194:TRP:HH2	1.81	0.44
1:N:93:ALA:HB3	1:N:206:GLY:O	2.17	0.44
1:Q:537:GLU:HG2	1:Q:540:ASN:HB3	1.99	0.44
1:R:205:GLN:HE22	1:R:334:ILE:HB	1.82	0.44
1:S:90:LEU:HD13	1:S:342:VAL:HG12	1.91	0.44
1:T:91:GLN:N	1:T:91:GLN:CD	2.76	0.44
1:T:93:ALA:HB3	1:T:206:GLY:O	2.17	0.44
1:Z:275:VAL:HG11	1:x:182:ASP:HB3	1.98	0.44
1:2:342:VAL:HG11	1:2:365:GLN:NE2	2.29	0.44
1:4:205:GLN:HE22	1:4:334:ILE:HB	1.82	0.44
1:4:262:ARG:CD	1:4:405:ILE:HD12	2.47	0.44
1:6:128:LYS:O	1:6:260:ASN:N	2.37	0.44
1:c:93:ALA:HB3	1:c:206:GLY:O	2.17	0.44
1:c:262:ARG:CD	1:c:405:ILE:HD12	2.47	0.44
1:e:138:ARG:HE	1:e:246:MET:HE1	1.82	0.44
1:e:537:GLU:HG2	1:e:540:ASN:HB3	1.99	0.44
1:g:91:GLN:N	1:g:91:GLN:CD	2.76	0.44
1:g:106:LEU:HA	1:g:194:TRP:HH2	1.81	0.44
1:h:262:ARG:CD	1:h:405:ILE:HD12	2.47	0.44
1:i:262:ARG:CD	1:i:405:ILE:HD12	2.47	0.44
1:j:138:ARG:HE	1:j:246:MET:HE1	1.82	0.44
1:o:380:THR:O	1:o:384:THR:OG1	2.33	0.44
1:q:262:ARG:CD	1:q:405:ILE:HD12	2.47	0.44
1:s:90:LEU:CD1	1:s:342:VAL:CG1	2.78	0.44
1:t:275:VAL:HG11	1:u:182:ASP:HB3	1.99	0.44
1:u:205:GLN:HE22	1:u:334:ILE:HB	1.82	0.44
1:v:537:GLU:HG2	1:v:540:ASN:HB3	1.99	0.44
1:w:90:LEU:HD12	1:w:365:GLN:HE21	1.65	0.44
1:x:106:LEU:HA	1:x:194:TRP:HH2	1.81	0.44
1:z:93:ALA:HB3	1:z:206:GLY:O	2.17	0.44
1:8:138:ARG:HE	1:8:246:MET:HE1	1.82	0.44
1:D:138:ARG:HE	1:D:246:MET:HE1	1.82	0.44
1:E:138:ARG:HE	1:E:246:MET:HE1	1.82	0.44
1:F:93:ALA:HB3	1:F:206:GLY:O	2.17	0.44
1:J:275:VAL:HG11	1:L:182:ASP:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:541:ILE:HD13	1:L:79:TYR:HB2	2.00	0.44
1:M:93:ALA:HB3	1:M:206:GLY:O	2.17	0.44
1:N:262:ARG:CD	1:N:405:ILE:HD12	2.47	0.44
1:P:262:ARG:CD	1:P:405:ILE:HD12	2.47	0.44
1:S:423:SER:HB2	1:U:318:HIS:HD2	1.83	0.44
1:T:537:GLU:HG2	1:T:540:ASN:HB3	1.99	0.44
1:U:106:LEU:HA	1:U:194:TRP:HH2	1.81	0.44
1:V:128:LYS:O	1:V:260:ASN:N	2.37	0.44
1:V:380:THR:O	1:V:384:THR:OG1	2.33	0.44
1:W:93:ALA:HB3	1:W:206:GLY:O	2.17	0.44
1:X:262:ARG:CD	1:X:405:ILE:HD12	2.47	0.44
1:Y:537:GLU:HG2	1:Y:540:ASN:HB3	1.99	0.44
1:2:262:ARG:CD	1:2:405:ILE:HD12	2.47	0.44
1:b:93:ALA:HB3	1:b:206:GLY:O	2.17	0.44
1:e:106:LEU:HD23	1:e:194:TRP:CZ3	2.51	0.44
1:f:91:GLN:N	1:f:91:GLN:CD	2.76	0.44
1:k:91:GLN:N	1:k:91:GLN:CD	2.76	0.44
1:m:93:ALA:HB3	1:m:206:GLY:O	2.17	0.44
1:m:106:LEU:HA	1:m:194:TRP:HH2	1.81	0.44
1:q:138:ARG:HE	1:q:246:MET:HE1	1.82	0.44
1:s:93:ALA:HB3	1:s:206:GLY:O	2.17	0.44
1:t:566:VAL:HG21	1:u:173:GLN:O	2.18	0.44
1:z:138:ARG:HE	1:z:246:MET:HE1	1.82	0.44
1:A:138:ARG:HE	1:A:246:MET:HE1	1.82	0.44
1:B:173:GLN:O	1:L:566:VAL:HG21	2.18	0.44
1:B:182:ASP:HB3	1:L:275:VAL:HG11	1.99	0.44
1:H:330:ILE:HG13	1:Y:306:MET:HE1	1.98	0.44
1:J:423:SER:HB2	1:L:318:HIS:CD2	2.52	0.44
1:O:91:GLN:N	1:O:91:GLN:CD	2.76	0.44
1:R:91:GLN:N	1:R:91:GLN:CD	2.76	0.44
1:T:106:LEU:HA	1:T:194:TRP:HH2	1.81	0.44
1:U:91:GLN:N	1:U:91:GLN:CD	2.76	0.44
1:U:138:ARG:HE	1:U:246:MET:HE1	1.82	0.44
1:V:93:ALA:HB3	1:V:206:GLY:O	2.17	0.44
1:W:138:ARG:HE	1:W:246:MET:HE1	1.82	0.44
1:Z:93:ALA:HB3	1:Z:206:GLY:O	2.17	0.44
1:1:91:GLN:N	1:1:91:GLN:CD	2.76	0.44
1:1:262:ARG:CD	1:1:405:ILE:HD12	2.47	0.44
1:2:91:GLN:N	1:2:91:GLN:CD	2.76	0.44
1:2:138:ARG:HE	1:2:246:MET:HE1	1.82	0.44
1:6:537:GLU:HG2	1:6:540:ASN:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:262:ARG:CD	1:d:405:ILE:HD12	2.47	0.44
1:h:205:GLN:HE22	1:h:334:ILE:HB	1.82	0.44
1:j:93:ALA:HB3	1:j:206:GLY:O	2.17	0.44
1:j:205:GLN:HE22	1:j:334:ILE:HB	1.81	0.44
1:j:380:THR:O	1:j:384:THR:OG1	2.33	0.44
1:k:205:GLN:HE22	1:k:334:ILE:HB	1.82	0.44
1:l:423:SER:HB2	1:m:318:HIS:HD2	1.83	0.44
1:m:91:GLN:N	1:m:91:GLN:CD	2.76	0.44
1:m:138:ARG:HE	1:m:246:MET:HE1	1.82	0.44
1:p:138:ARG:HE	1:p:246:MET:HE1	1.82	0.44
1:r:537:GLU:HG2	1:r:540:ASN:HB3	1.99	0.44
1:t:79:TYR:HB2	1:x:541:ILE:HD13	2.00	0.44
1:t:173:GLN:O	1:v:566:VAL:HG21	2.18	0.44
1:w:262:ARG:CD	1:w:405:ILE:HD12	2.47	0.44
1:z:537:GLU:HG2	1:z:540:ASN:HB3	1.99	0.44
1:7:537:GLU:HG2	1:7:540:ASN:HB3	1.99	0.44
1:A:93:ALA:HB3	1:A:206:GLY:O	2.17	0.44
1:B:434:TYR:CZ	1:J:311:LEU:HD22	2.52	0.44
1:D:330:ILE:HG13	1:P:306:MET:HE1	1.98	0.44
1:E:91:GLN:N	1:E:91:GLN:CD	2.76	0.44
1:E:93:ALA:HB3	1:E:206:GLY:O	2.17	0.44
1:K:106:LEU:HA	1:K:194:TRP:HH2	1.81	0.44
1:M:128:LYS:O	1:M:260:ASN:N	2.37	0.44
1:N:91:GLN:N	1:N:91:GLN:CD	2.76	0.44
1:U:93:ALA:HB3	1:U:206:GLY:O	2.17	0.44
1:V:330:ILE:HG13	1:X:306:MET:HE1	1.98	0.44
1:W:537:GLU:HG2	1:W:540:ASN:HB3	1.99	0.44
1:Z:86:THR:OG1	1:Z:324:ASP:OD2	2.27	0.44
1:2:537:GLU:HG2	1:2:540:ASN:HB3	1.99	0.44
1:4:91:GLN:N	1:4:91:GLN:CD	2.76	0.44
1:6:91:GLN:N	1:6:91:GLN:CD	2.76	0.44
1:c:205:GLN:HE22	1:c:334:ILE:HB	1.82	0.44
1:d:306:MET:HE1	1:e:330:ILE:HG13	1.98	0.44
1:h:91:GLN:N	1:h:91:GLN:CD	2.76	0.44
1:h:342:VAL:HG11	1:h:365:GLN:NE2	2.29	0.44
1:j:128:LYS:O	1:j:260:ASN:N	2.37	0.44
1:n:367:GLY:O	1:p:300:LYS:NZ	2.48	0.44
1:p:90:LEU:HD13	1:p:342:VAL:HG12	1.91	0.44
1:p:93:ALA:HB3	1:p:206:GLY:O	2.17	0.44
1:q:91:GLN:N	1:q:91:GLN:CD	2.76	0.44
1:q:93:ALA:HB3	1:q:206:GLY:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:91:GLN:N	1:s:91:GLN:CD	2.76	0.44
1:t:177:ALA:HA	1:v:270:ASP:O	2.18	0.44
1:u:537:GLU:HG2	1:u:540:ASN:HB3	1.99	0.44
1:v:106:LEU:HD23	1:v:194:TRP:CZ3	2.51	0.44
1:w:91:GLN:N	1:w:91:GLN:CD	2.76	0.44
1:y:367:GLY:O	1:7:300:LYS:NZ	2.48	0.44
1:8:205:GLN:HE22	1:8:334:ILE:HB	1.82	0.44
1:A:90:LEU:HD13	1:A:342:VAL:HG12	1.91	0.44
1:B:128:LYS:O	1:B:260:ASN:N	2.37	0.44
1:B:537:GLU:HG2	1:B:540:ASN:HB3	1.99	0.44
1:C:205:GLN:HE22	1:C:334:ILE:HB	1.82	0.44
1:D:108:LEU:HA	1:D:108:LEU:HD13	1.81	0.44
1:E:90:LEU:CD1	1:E:365:GLN:CD	2.83	0.44
1:F:91:GLN:N	1:F:91:GLN:CD	2.76	0.44
1:H:300:LYS:NZ	1:W:367:GLY:O	2.48	0.44
1:I:91:GLN:N	1:I:91:GLN:CD	2.76	0.44
1:J:106:LEU:HD23	1:J:194:TRP:CZ3	2.51	0.44
1:J:108:LEU:HD13	1:J:108:LEU:HA	1.81	0.44
1:J:438:VAL:HG22	1:L:457:THR:HG21	2.00	0.44
1:J:541:ILE:HD13	1:1:79:TYR:HB2	2.00	0.44
1:P:91:GLN:N	1:P:91:GLN:CD	2.76	0.44
1:Y:90:LEU:CD1	1:Y:365:GLN:CD	2.83	0.44
1:Z:205:GLN:HE22	1:Z:334:ILE:HB	1.82	0.44
1:4:93:ALA:HB3	1:4:206:GLY:O	2.17	0.44
1:6:138:ARG:HE	1:6:246:MET:HE1	1.82	0.44
1:a:205:GLN:HE22	1:a:334:ILE:HB	1.81	0.44
1:c:91:GLN:N	1:c:91:GLN:CD	2.76	0.44
1:i:306:MET:HE1	1:j:330:ILE:HG13	1.98	0.44
1:k:138:ARG:HE	1:k:246:MET:HE1	1.82	0.44
1:n:382:TYR:HA	1:n:383:PRO:HA	1.81	0.44
1:o:262:ARG:CD	1:o:405:ILE:HD12	2.47	0.44
1:q:90:LEU:CD1	1:q:365:GLN:CD	2.83	0.44
1:y:138:ARG:HE	1:y:246:MET:HE1	1.82	0.44
1:y:330:ILE:HG13	1:7:306:MET:HE1	1.98	0.44
1:7:90:LEU:CD1	1:7:365:GLN:CD	2.83	0.44
1:8:93:ALA:HB3	1:8:206:GLY:O	2.17	0.44
1:B:300:LYS:NZ	1:J:367:GLY:O	2.48	0.44
1:C:91:GLN:N	1:C:91:GLN:CD	2.76	0.44
1:F:138:ARG:HE	1:F:246:MET:HE1	1.82	0.44
1:H:138:ARG:HE	1:H:246:MET:HE1	1.82	0.44
1:I:93:ALA:HB3	1:I:206:GLY:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:262:ARG:CD	1:I:405:ILE:HD12	2.47	0.44
1:N:205:GLN:HE22	1:N:334:ILE:HB	1.82	0.44
1:X:537:GLU:HG2	1:X:540:ASN:HB3	1.99	0.44
1:2:128:LYS:O	1:2:260:ASN:N	2.37	0.44
1:3:91:GLN:N	1:3:91:GLN:CD	2.76	0.44
1:4:342:VAL:HG11	1:4:365:GLN:NE2	2.29	0.44
1:5:91:GLN:N	1:5:91:GLN:CD	2.76	0.44
1:a:91:GLN:N	1:a:91:GLN:CD	2.76	0.44
1:c:187:PRO:HD3	1:c:194:TRP:HD1	1.81	0.44
1:d:91:GLN:N	1:d:91:GLN:CD	2.76	0.44
1:i:342:VAL:HG11	1:i:365:GLN:NE2	2.29	0.44
1:l:90:LEU:HD13	1:l:342:VAL:HG12	1.91	0.44
1:o:93:ALA:HB3	1:o:206:GLY:O	2.17	0.44
1:v:205:GLN:HE22	1:v:334:ILE:HB	1.82	0.44
1:A:90:LEU:HD12	1:A:365:GLN:HE21	1.65	0.44
1:A:537:GLU:HG2	1:A:540:ASN:HB3	1.99	0.44
1:B:342:VAL:HG11	1:B:365:GLN:NE2	2.29	0.44
1:D:105:TYR:HE1	1:D:178:GLN:HE22	1.66	0.44
1:G:90:LEU:HD12	1:G:365:GLN:HE21	1.65	0.44
1:J:205:GLN:HE22	1:J:334:ILE:HB	1.82	0.44
1:K:105:TYR:HE1	1:K:178:GLN:HE22	1.66	0.44
1:N:537:GLU:HG2	1:N:540:ASN:HB3	1.99	0.44
1:P:138:ARG:HE	1:P:246:MET:HE1	1.82	0.44
1:R:138:ARG:HE	1:R:246:MET:HE1	1.82	0.44
1:S:270:ASP:O	1:U:177:ALA:HA	2.18	0.44
1:V:205:GLN:HE22	1:V:334:ILE:HB	1.82	0.44
1:Y:105:TYR:HE1	1:Y:178:GLN:HE22	1.66	0.44
1:4:270:ASP:O	1:f:177:ALA:HA	2.18	0.44
1:e:93:ALA:HB3	1:e:206:GLY:O	2.17	0.44
1:e:105:TYR:HE1	1:e:178:GLN:HE22	1.66	0.44
1:h:93:ALA:HB3	1:h:206:GLY:O	2.17	0.44
1:i:537:GLU:HG2	1:i:540:ASN:HB3	1.99	0.44
1:n:138:ARG:HE	1:n:246:MET:HE1	1.82	0.44
1:o:91:GLN:N	1:o:91:GLN:CD	2.76	0.44
1:p:91:GLN:N	1:p:91:GLN:CD	2.76	0.44
1:r:93:ALA:HB3	1:r:206:GLY:O	2.17	0.44
1:r:270:ASP:O	1:s:177:ALA:HA	2.18	0.44
1:r:342:VAL:HG11	1:r:365:GLN:NE2	2.29	0.44
1:t:311:LEU:HD22	1:v:434:TYR:CZ	2.53	0.44
1:u:342:VAL:HG11	1:u:365:GLN:NE2	2.29	0.44
1:v:128:LYS:O	1:v:260:ASN:N	2.37	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:105:TYR:HE1	1:7:178:GLN:HE22	1.66	0.44
1:A:91:GLN:N	1:A:91:GLN:CD	2.76	0.43
1:B:93:ALA:HB3	1:B:206:GLY:O	2.17	0.43
1:D:93:ALA:HB3	1:D:206:GLY:O	2.17	0.43
1:E:84:GLN:HE21	1:E:95:PRO:HD2	1.79	0.43
1:F:86:THR:OG1	1:F:324:ASP:OD2	2.27	0.43
1:F:177:ALA:HA	1:Q:270:ASP:O	2.18	0.43
1:G:138:ARG:HE	1:G:246:MET:HE1	1.82	0.43
1:H:93:ALA:HB3	1:H:206:GLY:O	2.17	0.43
1:K:120:TRP:CD1	1:K:446:ARG:HB2	2.53	0.43
1:N:106:LEU:HA	1:N:194:TRP:HH2	1.81	0.43
1:N:138:ARG:HE	1:N:246:MET:HE1	1.82	0.43
1:O:138:ARG:HE	1:O:246:MET:HE1	1.82	0.43
1:O:177:ALA:HA	1:h:270:ASP:O	2.18	0.43
1:Q:342:VAL:HG11	1:Q:365:GLN:NE2	2.29	0.43
1:R:173:GLN:O	1:U:566:VAL:HG21	2.18	0.43
1:R:382:TYR:HA	1:R:383:PRO:HA	1.81	0.43
1:V:342:VAL:HG11	1:V:365:GLN:NE2	2.29	0.43
1:X:91:GLN:N	1:X:91:GLN:CD	2.76	0.43
1:X:342:VAL:HG11	1:X:365:GLN:NE2	2.29	0.43
1:3:138:ARG:HE	1:3:246:MET:HE1	1.82	0.43
1:3:380:THR:O	1:3:384:THR:OG1	2.33	0.43
1:c:537:GLU:HG2	1:c:540:ASN:HB3	1.99	0.43
1:d:138:ARG:HE	1:d:246:MET:HE1	1.82	0.43
1:f:138:ARG:HE	1:f:246:MET:HE1	1.82	0.43
1:i:91:GLN:N	1:i:91:GLN:CD	2.76	0.43
1:j:342:VAL:HG11	1:j:365:GLN:NE2	2.29	0.43
1:k:173:GLN:O	1:m:566:VAL:HG21	2.18	0.43
1:p:537:GLU:HG2	1:p:540:ASN:HB3	1.99	0.43
1:q:84:GLN:HE21	1:q:95:PRO:HD2	1.79	0.43
1:s:138:ARG:HE	1:s:246:MET:HE1	1.82	0.43
1:t:342:VAL:HG11	1:t:365:GLN:NE2	2.29	0.43
1:v:91:GLN:N	1:v:91:GLN:CD	2.76	0.43
1:w:138:ARG:HE	1:w:246:MET:HE1	1.82	0.43
1:x:120:TRP:CD1	1:x:446:ARG:HB2	2.53	0.43
1:8:91:GLN:N	1:8:91:GLN:CD	2.76	0.43
1:E:105:TYR:HE1	1:E:178:GLN:HE22	1.66	0.43
1:F:120:TRP:CD1	1:F:446:ARG:HB2	2.53	0.43
1:G:91:GLN:N	1:G:91:GLN:CD	2.76	0.43
1:G:120:TRP:CD1	1:G:446:ARG:HB2	2.54	0.43
1:G:382:TYR:HA	1:G:383:PRO:HA	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:205:GLN:HE22	1:I:334:ILE:HB	1.81	0.43
1:J:91:GLN:N	1:J:91:GLN:CD	2.76	0.43
1:L:342:VAL:HG11	1:L:365:GLN:NE2	2.29	0.43
1:L:541:ILE:HD13	1:2:79:TYR:HB2	2.00	0.43
1:N:187:PRO:HD3	1:N:194:TRP:HD1	1.81	0.43
1:O:120:TRP:CD1	1:O:446:ARG:HB2	2.54	0.43
1:Q:93:ALA:HB3	1:Q:206:GLY:O	2.17	0.43
1:R:105:TYR:HE1	1:R:178:GLN:HE22	1.66	0.43
1:W:120:TRP:CD1	1:W:446:ARG:HB2	2.53	0.43
1:X:120:TRP:CD1	1:X:446:ARG:HB2	2.54	0.43
1:Z:91:GLN:N	1:Z:91:GLN:CD	2.76	0.43
1:Z:537:GLU:HG2	1:Z:540:ASN:HB3	1.99	0.43
1:1:120:TRP:CD1	1:1:446:ARG:HB2	2.54	0.43
1:1:128:LYS:O	1:1:260:ASN:N	2.37	0.43
1:2:93:ALA:HB3	1:2:206:GLY:O	2.17	0.43
1:5:138:ARG:HE	1:5:246:MET:HE1	1.82	0.43
1:b:91:GLN:N	1:b:91:GLN:CD	2.76	0.43
1:b:128:LYS:O	1:b:260:ASN:N	2.37	0.43
1:c:106:LEU:HA	1:c:194:TRP:HH2	1.81	0.43
1:c:138:ARG:HE	1:c:246:MET:HE1	1.82	0.43
1:f:120:TRP:CD1	1:f:446:ARG:HB2	2.54	0.43
1:h:138:ARG:HE	1:h:246:MET:HE1	1.82	0.43
1:l:91:GLN:N	1:l:91:GLN:CD	2.76	0.43
1:l:270:ASP:O	1:m:177:ALA:HA	2.18	0.43
1:n:91:GLN:N	1:n:91:GLN:CD	2.76	0.43
1:n:120:TRP:CD1	1:n:446:ARG:HB2	2.54	0.43
1:p:90:LEU:HD12	1:p:365:GLN:HE21	1.65	0.43
1:s:120:TRP:CD1	1:s:446:ARG:HB2	2.53	0.43
1:t:291:TYR:CD2	1:u:383:PRO:HG3	2.54	0.43
1:t:537:GLU:HG2	1:t:540:ASN:HB3	1.99	0.43
1:w:120:TRP:CD1	1:w:446:ARG:HB2	2.54	0.43
1:x:105:TYR:HE1	1:x:178:GLN:HE22	1.67	0.43
1:y:270:ASP:O	1:z:177:ALA:HA	2.19	0.43
1:B:90:LEU:CD1	1:B:365:GLN:CD	2.83	0.43
1:B:383:PRO:HG3	1:L:291:TYR:CD2	2.54	0.43
1:C:262:ARG:CD	1:C:405:ILE:HD12	2.47	0.43
1:H:105:TYR:HE1	1:H:178:GLN:HE22	1.66	0.43
1:H:270:ASP:O	1:W:177:ALA:HA	2.19	0.43
1:J:128:LYS:O	1:J:260:ASN:N	2.37	0.43
1:K:128:LYS:O	1:K:260:ASN:N	2.37	0.43
1:L:91:GLN:N	1:L:91:GLN:CD	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:537:GLU:HG2	1:L:540:ASN:HB3	1.99	0.43
1:M:177:ALA:HA	1:2:270:ASP:O	2.18	0.43
1:O:205:GLN:HE22	1:O:334:ILE:HB	1.82	0.43
1:W:105:TYR:HE1	1:W:178:GLN:HE22	1.66	0.43
1:Y:120:TRP:CD1	1:Y:446:ARG:HB2	2.53	0.43
1:4:90:LEU:HD12	1:4:365:GLN:HE21	1.65	0.43
1:4:138:ARG:HE	1:4:246:MET:HE1	1.82	0.43
1:a:537:GLU:HG2	1:a:540:ASN:HB3	1.99	0.43
1:c:270:ASP:O	1:d:177:ALA:HA	2.19	0.43
1:i:120:TRP:CD1	1:i:446:ARG:HB2	2.54	0.43
1:k:105:TYR:HE1	1:k:178:GLN:HE22	1.66	0.43
1:n:177:ALA:HA	1:p:270:ASP:O	2.18	0.43
1:q:105:TYR:HE1	1:q:178:GLN:HE22	1.66	0.43
1:t:91:GLN:N	1:t:91:GLN:CD	2.76	0.43
1:u:93:ALA:HB3	1:u:206:GLY:O	2.17	0.43
1:u:120:TRP:CD1	1:u:446:ARG:HB2	2.53	0.43
1:u:128:LYS:O	1:u:260:ASN:N	2.37	0.43
1:w:128:LYS:O	1:w:260:ASN:N	2.37	0.43
1:y:93:ALA:HB3	1:y:206:GLY:O	2.17	0.43
1:z:105:TYR:HE1	1:z:178:GLN:HE22	1.66	0.43
1:z:120:TRP:CD1	1:z:446:ARG:HB2	2.53	0.43
1:z:382:TYR:HA	1:z:383:PRO:HA	1.81	0.43
1:7:120:TRP:CD1	1:7:446:ARG:HB2	2.53	0.43
1:8:537:GLU:HG2	1:8:540:ASN:HB3	1.99	0.43
1:A:120:TRP:CD1	1:A:446:ARG:HB2	2.54	0.43
1:A:270:ASP:O	1:G:177:ALA:HA	2.19	0.43
1:B:120:TRP:CD1	1:B:446:ARG:HB2	2.54	0.43
1:C:537:GLU:HG2	1:C:540:ASN:HB3	1.99	0.43
1:D:91:GLN:N	1:D:91:GLN:CD	2.76	0.43
1:E:177:ALA:HA	1:F:270:ASP:O	2.18	0.43
1:I:537:GLU:HG2	1:I:540:ASN:HB3	1.99	0.43
1:M:91:GLN:N	1:M:91:GLN:CD	2.76	0.43
1:M:120:TRP:CD1	1:M:446:ARG:HB2	2.54	0.43
1:M:342:VAL:HG11	1:M:365:GLN:NE2	2.29	0.43
1:N:270:ASP:O	1:P:177:ALA:HA	2.19	0.43
1:O:270:ASP:O	1:g:177:ALA:HA	2.19	0.43
1:T:177:ALA:HA	1:f:270:ASP:O	2.19	0.43
1:U:105:TYR:HE1	1:U:178:GLN:HE22	1.66	0.43
1:V:120:TRP:CD1	1:V:446:ARG:HB2	2.53	0.43
1:W:270:ASP:O	1:Y:177:ALA:HA	2.19	0.43
1:Z:177:ALA:HA	1:w:270:ASP:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:138:ARG:HE	1:1:246:MET:HE1	1.82	0.43
1:1:270:ASP:O	1:8:177:ALA:HA	2.18	0.43
1:2:541:ILE:HD13	1:i:79:TYR:HB2	2.01	0.43
1:6:93:ALA:HB3	1:6:206:GLY:O	2.17	0.43
1:6:270:ASP:O	1:b:177:ALA:HA	2.18	0.43
1:a:262:ARG:CD	1:a:405:ILE:HD12	2.47	0.43
1:b:90:LEU:HD12	1:b:365:GLN:HE21	1.65	0.43
1:b:120:TRP:CD1	1:b:446:ARG:HB2	2.54	0.43
1:f:205:GLN:HE22	1:f:334:ILE:HB	1.82	0.43
1:j:105:TYR:HE1	1:j:178:GLN:HE22	1.66	0.43
1:j:120:TRP:CD1	1:j:446:ARG:HB2	2.53	0.43
1:k:270:ASP:O	1:l:177:ALA:HA	2.19	0.43
1:m:105:TYR:HE1	1:m:178:GLN:HE22	1.66	0.43
1:o:537:GLU:HG2	1:o:540:ASN:HB3	1.99	0.43
1:p:120:TRP:CD1	1:p:446:ARG:HB2	2.53	0.43
1:r:120:TRP:CD1	1:r:446:ARG:HB2	2.53	0.43
1:u:138:ARG:HE	1:u:246:MET:HE1	1.82	0.43
1:z:270:ASP:O	1:7:177:ALA:HA	2.19	0.43
1:7:128:LYS:O	1:7:260:ASN:N	2.37	0.43
1:A:367:GLY:O	1:I:300:LYS:NZ	2.48	0.43
1:C:138:ARG:HE	1:C:246:MET:HE1	1.82	0.43
1:H:177:ALA:HA	1:Y:270:ASP:O	2.19	0.43
1:K:177:ALA:HA	1:8:270:ASP:O	2.19	0.43
1:M:61:VAL:HG23	1:M:514:VAL:HG11	2.01	0.43
1:P:93:ALA:HB3	1:P:206:GLY:O	2.17	0.43
1:Q:120:TRP:CD1	1:Q:446:ARG:HB2	2.53	0.43
1:R:270:ASP:O	1:S:177:ALA:HA	2.19	0.43
1:S:91:GLN:N	1:S:91:GLN:CD	2.76	0.43
1:S:138:ARG:HE	1:S:246:MET:HE1	1.82	0.43
1:T:270:ASP:O	1:4:177:ALA:HA	2.18	0.43
1:T:541:ILE:HD13	1:U:79:TYR:HB2	2.00	0.43
1:V:105:TYR:HE1	1:V:178:GLN:HE22	1.67	0.43
1:X:318:HIS:HD2	1:5:423:SER:HB2	1.84	0.43
1:Z:270:ASP:O	1:x:177:ALA:HA	2.19	0.43
1:6:79:TYR:HB2	1:t:541:ILE:HD13	2.00	0.43
1:b:61:VAL:HG23	1:b:514:VAL:HG11	2.01	0.43
1:d:120:TRP:CD1	1:d:446:ARG:HB2	2.53	0.43
1:e:91:GLN:N	1:e:91:GLN:CD	2.76	0.43
1:e:108:LEU:HD13	1:e:108:LEU:HA	1.81	0.43
1:g:138:ARG:HE	1:g:246:MET:HE1	1.82	0.43
1:g:541:ILE:HD13	1:m:79:TYR:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:90:LEU:HD12	1:n:365:GLN:HE21	1.65	0.43
1:s:342:VAL:HG11	1:s:365:GLN:NE2	2.29	0.43
1:t:318:HIS:HD2	1:v:423:SER:HB2	1.83	0.43
1:v:108:LEU:HD13	1:v:108:LEU:HA	1.81	0.43
1:y:105:TYR:HE1	1:y:178:GLN:HE22	1.66	0.43
1:y:177:ALA:HA	1:7:270:ASP:O	2.19	0.43
1:B:138:ARG:HE	1:B:246:MET:HE1	1.82	0.43
1:C:61:VAL:HG23	1:C:514:VAL:HG11	2.01	0.43
1:F:342:VAL:HG11	1:F:365:GLN:NE2	2.29	0.43
1:G:105:TYR:HE1	1:G:178:GLN:HE22	1.66	0.43
1:H:79:TYR:HB2	1:Z:541:ILE:HD13	2.01	0.43
1:I:105:TYR:HE1	1:I:178:GLN:HE22	1.66	0.43
1:I:120:TRP:CD1	1:I:446:ARG:HB2	2.53	0.43
1:K:91:GLN:N	1:K:91:GLN:CD	2.76	0.43
1:N:61:VAL:HG23	1:N:514:VAL:HG11	2.01	0.43
1:O:61:VAL:HG23	1:O:514:VAL:HG11	2.01	0.43
1:P:120:TRP:CD1	1:P:446:ARG:HB2	2.53	0.43
1:V:91:GLN:N	1:V:91:GLN:CD	2.76	0.43
1:V:270:ASP:O	1:5:177:ALA:HA	2.18	0.43
1:V:423:SER:HB2	1:5:318:HIS:HD2	1.84	0.43
1:3:120:TRP:CD1	1:3:446:ARG:HB2	2.53	0.43
1:3:270:ASP:O	1:i:177:ALA:HA	2.18	0.43
1:3:318:HIS:HD2	1:j:423:SER:HB2	1.84	0.43
1:3:423:SER:HB2	1:i:318:HIS:HD2	1.84	0.43
1:a:61:VAL:HG23	1:a:514:VAL:HG11	2.01	0.43
1:a:138:ARG:HE	1:a:246:MET:HE1	1.82	0.43
1:c:367:GLY:O	1:e:300:LYS:NZ	2.48	0.43
1:f:61:VAL:HG23	1:f:514:VAL:HG11	2.01	0.43
1:k:382:TYR:HA	1:k:383:PRO:HA	1.81	0.43
1:n:105:TYR:HE1	1:n:178:GLN:HE22	1.66	0.43
1:o:105:TYR:HE1	1:o:178:GLN:HE22	1.66	0.43
1:o:205:GLN:HE22	1:o:334:ILE:HB	1.82	0.43
1:q:177:ALA:HA	1:s:270:ASP:O	2.18	0.43
1:q:270:ASP:O	1:r:177:ALA:HA	2.19	0.43
1:t:93:ALA:HB3	1:t:206:GLY:O	2.17	0.43
1:v:120:TRP:CD1	1:v:446:ARG:HB2	2.53	0.43
1:B:291:TYR:CD2	1:J:383:PRO:HG3	2.54	0.43
1:C:93:ALA:HB3	1:C:206:GLY:O	2.17	0.43
1:D:423:SER:HB2	1:N:318:HIS:HD2	1.84	0.43
1:E:270:ASP:O	1:Q:177:ALA:HA	2.19	0.43
1:H:61:VAL:HG23	1:H:514:VAL:HG11	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:566:VAL:HG21	1:1:173:GLN:O	2.19	0.43
1:L:93:ALA:HB3	1:L:206:GLY:O	2.17	0.43
1:Q:128:LYS:O	1:Q:260:ASN:N	2.37	0.43
1:Q:541:ILE:HD13	1:S:79:TYR:HB2	2.01	0.43
1:R:90:LEU:CD1	1:R:365:GLN:CD	2.83	0.43
1:T:138:ARG:HE	1:T:246:MET:HE1	1.82	0.43
1:W:91:GLN:N	1:W:91:GLN:CD	2.76	0.43
1:X:79:TYR:HB2	1:6:541:ILE:HD13	2.01	0.43
1:X:97:VAL:HG11	1:X:204:TYR:CZ	2.54	0.43
1:Y:91:GLN:N	1:Y:91:GLN:CD	2.76	0.43
1:Z:61:VAL:HG23	1:Z:514:VAL:HG11	2.01	0.43
1:Z:79:TYR:HB2	1:1:541:ILE:HD13	2.01	0.43
1:c:61:VAL:HG23	1:c:514:VAL:HG11	2.01	0.43
1:d:93:ALA:HB3	1:d:206:GLY:O	2.17	0.43
1:g:270:ASP:O	1:h:177:ALA:HA	2.18	0.43
1:i:93:ALA:HB3	1:i:206:GLY:O	2.17	0.43
1:i:97:VAL:HG11	1:i:204:TYR:CZ	2.54	0.43
1:j:91:GLN:N	1:j:91:GLN:CD	2.76	0.43
1:k:90:LEU:CD1	1:k:365:GLN:CD	2.83	0.43
1:l:79:TYR:HB2	1:r:541:ILE:HD13	2.01	0.43
1:l:138:ARG:HE	1:l:246:MET:HE1	1.82	0.43
1:n:541:ILE:HD13	1:z:79:TYR:HB2	2.01	0.43
1:o:120:TRP:CD1	1:o:446:ARG:HB2	2.53	0.43
1:q:318:HIS:HD2	1:s:423:SER:HB2	1.84	0.43
1:t:423:SER:HB2	1:u:318:HIS:CD2	2.54	0.43
1:x:61:VAL:HG23	1:x:514:VAL:HG11	2.01	0.43
1:y:79:TYR:HB2	1:8:541:ILE:HD13	2.01	0.43
1:z:91:GLN:N	1:z:91:GLN:CD	2.76	0.43
1:7:138:ARG:HE	1:7:246:MET:HE1	1.82	0.43
1:7:325:ASP:CG	1:7:364:LYS:HG2	2.44	0.43
1:8:61:VAL:HG23	1:8:514:VAL:HG11	2.01	0.43
1:A:97:VAL:HG11	1:A:204:TYR:CZ	2.54	0.43
1:B:318:HIS:CD2	1:L:423:SER:HB2	2.54	0.43
1:B:566:VAL:HG21	1:J:173:GLN:O	2.19	0.43
1:E:318:HIS:HD2	1:F:423:SER:HB2	1.84	0.43
1:E:423:SER:HB2	1:Q:318:HIS:HD2	1.84	0.43
1:G:97:VAL:HG11	1:G:204:TYR:CZ	2.54	0.43
1:G:541:ILE:HD13	1:W:79:TYR:HB2	2.01	0.43
1:H:91:GLN:N	1:H:91:GLN:CD	2.76	0.43
1:H:325:ASP:CG	1:H:364:LYS:HG2	2.44	0.43
1:J:120:TRP:CD1	1:J:446:ARG:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:325:ASP:CG	1:J:364:LYS:HG2	2.44	0.43
1:L:120:TRP:CD1	1:L:446:ARG:HB2	2.53	0.43
1:M:138:ARG:HE	1:M:246:MET:HE1	1.82	0.43
1:O:173:GLN:O	1:h:566:VAL:HG21	2.19	0.43
1:O:318:HIS:HD2	1:h:423:SER:HB2	1.84	0.43
1:O:342:VAL:HG11	1:O:365:GLN:NE2	2.29	0.43
1:Q:91:GLN:N	1:Q:91:GLN:CD	2.76	0.43
1:R:61:VAL:HG23	1:R:514:VAL:HG11	2.01	0.43
1:R:383:PRO:HG3	1:U:291:TYR:CD2	2.54	0.43
1:R:423:SER:HB2	1:S:318:HIS:HD2	1.84	0.43
1:R:537:GLU:HG2	1:R:540:ASN:HB3	1.99	0.43
1:T:566:VAL:HG21	1:4:173:GLN:O	2.19	0.43
1:U:61:VAL:HG23	1:U:514:VAL:HG11	2.01	0.43
1:V:325:ASP:CG	1:V:364:LYS:HG2	2.44	0.43
1:W:382:TYR:HA	1:W:383:PRO:HA	1.81	0.43
1:X:173:GLN:O	1:5:566:VAL:HG21	2.19	0.43
1:X:177:ALA:HA	1:5:270:ASP:O	2.18	0.43
1:X:325:ASP:CG	1:X:364:LYS:HG2	2.44	0.43
1:Y:128:LYS:O	1:Y:260:ASN:N	2.37	0.43
1:Y:325:ASP:CG	1:Y:364:LYS:HG2	2.44	0.43
1:Z:325:ASP:CG	1:Z:364:LYS:HG2	2.44	0.43
1:1:90:LEU:CD1	1:1:365:GLN:CD	2.83	0.43
1:3:173:GLN:O	1:j:566:VAL:HG21	2.19	0.43
1:3:177:ALA:HA	1:j:270:ASP:O	2.18	0.43
1:4:97:VAL:HG11	1:4:204:TYR:CZ	2.54	0.43
1:4:423:SER:HB2	1:f:318:HIS:HD2	1.84	0.43
1:4:566:VAL:HG21	1:f:173:GLN:O	2.19	0.43
1:5:120:TRP:CD1	1:5:446:ARG:HB2	2.54	0.43
1:6:173:GLN:O	1:a:566:VAL:HG21	2.19	0.43
1:a:93:ALA:HB3	1:a:206:GLY:O	2.17	0.43
1:f:342:VAL:HG11	1:f:365:GLN:NE2	2.29	0.43
1:g:120:TRP:CD1	1:g:446:ARG:HB2	2.53	0.43
1:g:566:VAL:HG21	1:h:173:GLN:O	2.19	0.43
1:h:97:VAL:HG11	1:h:204:TYR:CZ	2.54	0.43
1:i:325:ASP:CG	1:i:364:LYS:HG2	2.44	0.43
1:j:325:ASP:CG	1:j:364:LYS:HG2	2.44	0.43
1:k:61:VAL:HG23	1:k:514:VAL:HG11	2.01	0.43
1:k:423:SER:HB2	1:l:318:HIS:HD2	1.84	0.43
1:n:97:VAL:HG11	1:n:204:TYR:CZ	2.54	0.43
1:o:138:ARG:HE	1:o:246:MET:HE1	1.82	0.43
1:o:541:ILE:HD13	1:v:79:TYR:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:97:VAL:HG11	1:p:204:TYR:CZ	2.54	0.43
1:q:423:SER:HB2	1:r:318:HIS:HD2	1.84	0.43
1:r:91:GLN:N	1:r:91:GLN:CD	2.76	0.43
1:t:120:TRP:CD1	1:t:446:ARG:HB2	2.53	0.43
1:w:90:LEU:CD1	1:w:365:GLN:CD	2.83	0.43
1:w:173:GLN:O	1:x:566:VAL:HG21	2.19	0.43
1:w:541:ILE:HD13	1:8:79:TYR:HB2	2.01	0.43
1:x:91:GLN:N	1:x:91:GLN:CD	2.76	0.43
1:y:61:VAL:HG23	1:y:514:VAL:HG11	2.01	0.43
1:7:91:GLN:N	1:7:91:GLN:CD	2.76	0.43
1:C:270:ASP:O	1:2:177:ALA:HA	2.19	0.43
1:C:311:LEU:HD22	1:M:434:TYR:CZ	2.54	0.43
1:C:566:VAL:HG21	1:2:173:GLN:O	2.19	0.43
1:D:177:ALA:HA	1:P:270:ASP:O	2.19	0.43
1:E:120:TRP:CD1	1:E:446:ARG:HB2	2.54	0.43
1:E:566:VAL:HG21	1:Q:173:GLN:O	2.19	0.43
1:F:325:ASP:CG	1:F:364:LYS:HG2	2.44	0.43
1:G:423:SER:HB2	1:I:318:HIS:HD2	1.84	0.43
1:H:311:LEU:HD22	1:Y:434:TYR:CZ	2.54	0.43
1:H:541:ILE:HD13	1:I:79:TYR:HB2	2.01	0.43
1:K:61:VAL:HG23	1:K:514:VAL:HG11	2.01	0.43
1:L:61:VAL:HG23	1:L:514:VAL:HG11	2.01	0.43
1:N:97:VAL:HG11	1:N:204:TYR:CZ	2.54	0.43
1:O:434:TYR:CZ	1:g:311:LEU:HD22	2.54	0.43
1:P:108:LEU:HA	1:P:108:LEU:HD13	1.81	0.43
1:S:434:TYR:CZ	1:U:311:LEU:HD22	2.53	0.43
1:T:120:TRP:CD1	1:T:446:ARG:HB2	2.53	0.43
1:T:311:LEU:HD22	1:f:434:TYR:CZ	2.54	0.43
1:V:566:VAL:HG21	1:5:173:GLN:O	2.19	0.43
1:W:380:THR:O	1:W:384:THR:OG1	2.33	0.43
1:X:93:ALA:HB3	1:X:206:GLY:O	2.17	0.43
1:X:138:ARG:HE	1:X:246:MET:HE1	1.82	0.43
1:Y:97:VAL:HG11	1:Y:204:TYR:CZ	2.54	0.43
1:Y:138:ARG:HE	1:Y:246:MET:HE1	1.82	0.43
1:Z:103:TRP:CE2	1:Z:482:LYS:HD3	2.54	0.43
1:Z:105:TYR:HE1	1:Z:178:GLN:HE22	1.66	0.43
1:2:105:TYR:HE1	1:2:178:GLN:HE22	1.66	0.43
1:3:128:LYS:O	1:3:260:ASN:N	2.37	0.43
1:6:177:ALA:HA	1:a:270:ASP:O	2.18	0.43
1:a:311:LEU:HD22	1:b:434:TYR:CZ	2.54	0.43
1:c:318:HIS:HD2	1:e:423:SER:HB2	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:566:VAL:HG21	1:e:173:GLN:O	2.19	0.43
1:g:325:ASP:CG	1:g:364:LYS:HG2	2.44	0.43
1:j:537:GLU:HG2	1:j:540:ASN:HB3	1.99	0.43
1:k:383:PRO:HG3	1:m:291:TYR:CD2	2.54	0.43
1:l:566:VAL:HG21	1:m:173:GLN:O	2.18	0.43
1:m:61:VAL:HG23	1:m:514:VAL:HG11	2.01	0.43
1:n:270:ASP:O	1:o:177:ALA:HA	2.19	0.43
1:n:423:SER:HB2	1:o:318:HIS:HD2	1.84	0.43
1:o:79:TYR:HB2	1:y:541:ILE:HD13	2.01	0.43
1:o:270:ASP:O	1:p:177:ALA:HA	2.18	0.43
1:o:300:LYS:NZ	1:p:367:GLY:O	2.48	0.43
1:t:61:VAL:HG23	1:t:514:VAL:HG11	2.01	0.43
1:t:325:ASP:CG	1:t:364:LYS:HG2	2.44	0.43
1:y:311:LEU:HD22	1:7:434:TYR:CZ	2.54	0.43
1:y:325:ASP:CG	1:y:364:LYS:HG2	2.44	0.43
1:7:97:VAL:HG11	1:7:204:TYR:CZ	2.54	0.43
1:7:342:VAL:HG11	1:7:365:GLN:NE2	2.29	0.43
1:8:103:TRP:CE2	1:8:482:LYS:HD3	2.54	0.43
1:8:105:TYR:HE1	1:8:178:GLN:HE22	1.66	0.43
1:B:325:ASP:CG	1:B:364:LYS:HG2	2.44	0.43
1:D:173:GLN:O	1:P:566:VAL:HG21	2.19	0.43
1:D:383:PRO:HG3	1:P:291:TYR:CD2	2.54	0.43
1:D:434:TYR:CZ	1:N:311:LEU:HD22	2.54	0.43
1:E:434:TYR:CZ	1:Q:311:LEU:HD22	2.54	0.43
1:H:291:TYR:CD2	1:W:383:PRO:HG3	2.54	0.43
1:I:138:ARG:HE	1:I:246:MET:HE1	1.82	0.43
1:I:541:ILE:HD13	1:J:79:TYR:HB2	2.01	0.43
1:J:103:TRP:CE2	1:J:482:LYS:HD3	2.54	0.43
1:J:105:TYR:HE1	1:J:178:GLN:HE22	1.67	0.43
1:J:434:TYR:CZ	1:L:311:LEU:HD22	2.54	0.43
1:K:325:ASP:CG	1:K:364:LYS:HG2	2.44	0.43
1:L:325:ASP:CG	1:L:364:LYS:HG2	2.44	0.43
1:M:173:GLN:O	1:2:566:VAL:HG21	2.19	0.43
1:N:120:TRP:CD1	1:N:446:ARG:HB2	2.53	0.43
1:O:380:THR:O	1:O:384:THR:OG1	2.33	0.43
1:P:61:VAL:HG23	1:P:514:VAL:HG11	2.01	0.43
1:P:105:TYR:HE1	1:P:178:GLN:HE22	1.66	0.43
1:Q:103:TRP:CE2	1:Q:482:LYS:HD3	2.54	0.43
1:Q:105:TYR:HE1	1:Q:178:GLN:HE22	1.66	0.43
1:S:566:VAL:HG21	1:U:173:GLN:O	2.18	0.43
1:T:325:ASP:CG	1:T:364:LYS:HG2	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:537:GLU:HG2	1:V:540:ASN:HB3	1.99	0.43
1:W:103:TRP:CE2	1:W:482:LYS:HD3	2.54	0.43
1:Y:342:VAL:HG11	1:Y:365:GLN:NE2	2.29	0.43
1:1:97:VAL:HG11	1:1:204:TYR:CZ	2.54	0.43
1:1:325:ASP:CG	1:1:364:LYS:HG2	2.44	0.43
1:2:120:TRP:CD1	1:2:446:ARG:HB2	2.54	0.43
1:3:566:VAL:HG21	1:i:173:GLN:O	2.19	0.43
1:4:103:TRP:CE2	1:4:482:LYS:HD3	2.54	0.43
1:6:105:TYR:HE1	1:6:178:GLN:HE22	1.66	0.43
1:6:566:VAL:HG21	1:b:173:GLN:O	2.19	0.43
1:a:79:TYR:HB2	1:e:541:ILE:HD13	2.01	0.43
1:b:187:PRO:HD3	1:b:194:TRP:HD1	1.81	0.43
1:c:97:VAL:HG11	1:c:204:TYR:CZ	2.54	0.43
1:c:105:TYR:HE1	1:c:178:GLN:HE22	1.66	0.43
1:c:120:TRP:CD1	1:c:446:ARG:HB2	2.53	0.43
1:c:311:LEU:HD22	1:e:434:TYR:CZ	2.54	0.43
1:d:61:VAL:HG23	1:d:514:VAL:HG11	2.01	0.43
1:d:105:TYR:HE1	1:d:178:GLN:HE22	1.66	0.43
1:d:108:LEU:HA	1:d:108:LEU:HD13	1.81	0.43
1:d:291:TYR:CD2	1:e:383:PRO:HG3	2.54	0.43
1:e:120:TRP:CD1	1:e:446:ARG:HB2	2.53	0.43
1:f:380:THR:O	1:f:384:THR:OG1	2.33	0.43
1:h:90:LEU:HD12	1:h:365:GLN:HE21	1.65	0.43
1:h:103:TRP:CE2	1:h:482:LYS:HD3	2.54	0.43
1:i:61:VAL:HG23	1:i:514:VAL:HG11	2.01	0.43
1:i:138:ARG:HE	1:i:246:MET:HE1	1.82	0.43
1:k:537:GLU:HG2	1:k:540:ASN:HB3	1.99	0.43
1:l:434:TYR:CZ	1:m:311:LEU:HD22	2.53	0.43
1:n:79:TYR:HB2	1:s:541:ILE:HD13	2.01	0.43
1:q:61:VAL:HG23	1:q:514:VAL:HG11	2.01	0.43
1:q:120:TRP:CD1	1:q:446:ARG:HB2	2.54	0.43
1:q:434:TYR:CZ	1:r:311:LEU:HD22	2.54	0.43
1:q:566:VAL:HG21	1:r:173:GLN:O	2.19	0.43
1:r:103:TRP:CE2	1:r:482:LYS:HD3	2.54	0.43
1:s:325:ASP:CG	1:s:364:LYS:HG2	2.44	0.43
1:u:90:LEU:CD1	1:u:365:GLN:CD	2.83	0.43
1:u:270:ASP:O	1:v:177:ALA:HA	2.19	0.43
1:u:566:VAL:HG21	1:v:173:GLN:O	2.19	0.43
1:v:105:TYR:HE1	1:v:178:GLN:HE22	1.66	0.43
1:v:325:ASP:CG	1:v:364:LYS:HG2	2.44	0.43
1:w:97:VAL:HG11	1:w:204:TYR:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:105:TYR:HE1	1:w:178:GLN:HE22	1.66	0.43
1:x:325:ASP:CG	1:x:364:LYS:HG2	2.44	0.43
1:y:91:GLN:N	1:y:91:GLN:CD	2.76	0.43
1:z:103:TRP:CE2	1:z:482:LYS:HD3	2.54	0.43
1:8:325:ASP:CG	1:8:364:LYS:HG2	2.44	0.43
1:B:91:GLN:N	1:B:91:GLN:CD	2.76	0.42
1:B:270:ASP:O	1:J:177:ALA:HA	2.19	0.42
1:C:120:TRP:CD1	1:C:446:ARG:HB2	2.53	0.42
1:C:318:HIS:HD2	1:M:423:SER:HB2	1.84	0.42
1:D:120:TRP:CD1	1:D:446:ARG:HB2	2.53	0.42
1:E:103:TRP:CE2	1:E:482:LYS:HD3	2.54	0.42
1:F:541:ILE:HD13	1:G:79:TYR:HB2	2.01	0.42
1:I:97:VAL:HG11	1:I:204:TYR:CZ	2.54	0.42
1:L:382:TYR:HA	1:L:383:PRO:HA	1.81	0.42
1:M:90:LEU:HD12	1:M:365:GLN:HE21	1.65	0.42
1:M:103:TRP:CE2	1:M:482:LYS:HD3	2.54	0.42
1:M:325:ASP:CG	1:M:364:LYS:HG2	2.44	0.42
1:N:105:TYR:HE1	1:N:178:GLN:HE22	1.66	0.42
1:N:325:ASP:CG	1:N:364:LYS:HG2	2.44	0.42
1:N:423:SER:HB2	1:P:318:HIS:HD2	1.84	0.42
1:R:325:ASP:CG	1:R:364:LYS:HG2	2.44	0.42
1:T:97:VAL:HG11	1:T:204:TYR:CZ	2.54	0.42
1:W:61:VAL:HG23	1:W:514:VAL:HG11	2.01	0.42
1:W:434:TYR:CZ	1:Y:311:LEU:HD22	2.54	0.42
1:X:61:VAL:HG23	1:X:514:VAL:HG11	2.01	0.42
1:Z:318:HIS:HD2	1:w:423:SER:HB2	1.84	0.42
1:3:97:VAL:HG11	1:3:204:TYR:CZ	2.54	0.42
1:6:120:TRP:CD1	1:6:446:ARG:HB2	2.53	0.42
1:a:103:TRP:CE2	1:a:482:LYS:HD3	2.54	0.42
1:a:177:ALA:HA	1:b:270:ASP:O	2.19	0.42
1:b:103:TRP:CE2	1:b:482:LYS:HD3	2.54	0.42
1:b:138:ARG:HE	1:b:246:MET:HE1	1.82	0.42
1:b:325:ASP:CG	1:b:364:LYS:HG2	2.44	0.42
1:c:325:ASP:CG	1:c:364:LYS:HG2	2.44	0.42
1:d:270:ASP:O	1:e:177:ALA:HA	2.19	0.42
1:k:120:TRP:CD1	1:k:446:ARG:HB2	2.53	0.42
1:k:325:ASP:CG	1:k:364:LYS:HG2	2.44	0.42
1:o:97:VAL:HG11	1:o:204:TYR:CZ	2.54	0.42
1:q:103:TRP:CE2	1:q:482:LYS:HD3	2.54	0.42
1:r:105:TYR:HE1	1:r:178:GLN:HE22	1.66	0.42
1:u:325:ASP:CG	1:u:364:LYS:HG2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:103:TRP:CE2	1:v:482:LYS:HD3	2.54	0.42
1:w:318:HIS:HD2	1:x:423:SER:HB2	1.84	0.42
1:w:325:ASP:CG	1:w:364:LYS:HG2	2.44	0.42
1:x:138:ARG:HE	1:x:246:MET:HE1	1.82	0.42
1:y:291:TYR:CD2	1:z:383:PRO:HG3	2.54	0.42
1:y:434:TYR:CZ	1:z:311:LEU:HD22	2.54	0.42
1:z:61:VAL:HG23	1:z:514:VAL:HG11	2.01	0.42
1:z:380:THR:O	1:z:384:THR:OG1	2.33	0.42
1:z:434:TYR:CZ	1:7:311:LEU:HD22	2.54	0.42
1:C:79:TYR:HB2	1:D:541:ILE:HD13	2.01	0.42
1:C:103:TRP:CE2	1:C:482:LYS:HD3	2.54	0.42
1:D:318:HIS:HD2	1:P:423:SER:HB2	1.84	0.42
1:E:61:VAL:HG23	1:E:514:VAL:HG11	2.01	0.42
1:G:270:ASP:O	1:I:177:ALA:HA	2.19	0.42
1:H:383:PRO:HG3	1:Y:291:TYR:CD2	2.54	0.42
1:H:434:TYR:CZ	1:W:311:LEU:HD22	2.54	0.42
1:K:79:TYR:HB2	1:7:541:ILE:HD13	2.01	0.42
1:K:103:TRP:CE2	1:K:482:LYS:HD3	2.54	0.42
1:K:367:GLY:O	1:8:300:LYS:NZ	2.48	0.42
1:K:423:SER:HB2	1:1:318:HIS:HD2	1.84	0.42
1:M:187:PRO:HD3	1:M:194:TRP:HD1	1.81	0.42
1:O:383:PRO:HG3	1:h:291:TYR:CD2	2.55	0.42
1:Q:325:ASP:CG	1:Q:364:LYS:HG2	2.44	0.42
1:R:120:TRP:CD1	1:R:446:ARG:HB2	2.53	0.42
1:S:291:TYR:CD2	1:U:383:PRO:HG3	2.54	0.42
1:T:61:VAL:HG23	1:T:514:VAL:HG11	2.01	0.42
1:U:97:VAL:HG11	1:U:204:TYR:CZ	2.54	0.42
1:U:120:TRP:CD1	1:U:446:ARG:HB2	2.53	0.42
1:V:61:VAL:HG23	1:V:514:VAL:HG11	2.01	0.42
1:V:97:VAL:HG11	1:V:204:TYR:CZ	2.54	0.42
1:X:105:TYR:HE1	1:X:178:GLN:HE22	1.66	0.42
1:Z:566:VAL:HG21	1:x:173:GLN:O	2.19	0.42
1:1:105:TYR:HE1	1:1:178:GLN:HE22	1.66	0.42
1:1:423:SER:HB2	1:8:318:HIS:HD2	1.84	0.42
1:3:103:TRP:CE2	1:3:482:LYS:HD3	2.54	0.42
1:3:325:ASP:CG	1:3:364:LYS:HG2	2.44	0.42
1:4:291:TYR:CD2	1:f:383:PRO:HG3	2.55	0.42
1:5:103:TRP:CE2	1:5:482:LYS:HD3	2.54	0.42
1:6:103:TRP:CE2	1:6:482:LYS:HD3	2.54	0.42
1:6:311:LEU:HD22	1:a:434:TYR:CZ	2.54	0.42
1:6:434:TYR:CZ	1:b:311:LEU:HD22	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:120:TRP:CD1	1:a:446:ARG:HB2	2.53	0.42
1:b:97:VAL:HG11	1:b:204:TYR:CZ	2.54	0.42
1:c:177:ALA:HA	1:e:270:ASP:O	2.19	0.42
1:c:423:SER:HB2	1:d:318:HIS:HD2	1.84	0.42
1:d:97:VAL:HG11	1:d:204:TYR:CZ	2.54	0.42
1:f:103:TRP:CE2	1:f:482:LYS:HD3	2.54	0.42
1:g:97:VAL:HG11	1:g:204:TYR:CZ	2.54	0.42
1:g:423:SER:HB2	1:h:318:HIS:HD2	1.84	0.42
1:i:566:VAL:HG21	1:j:173:GLN:O	2.19	0.42
1:j:61:VAL:HG23	1:j:514:VAL:HG11	2.01	0.42
1:j:97:VAL:HG11	1:j:204:TYR:CZ	2.54	0.42
1:l:291:TYR:CD2	1:m:383:PRO:HG3	2.54	0.42
1:p:103:TRP:CE2	1:p:482:LYS:HD3	2.54	0.42
1:r:382:TYR:HA	1:r:383:PRO:HA	1.81	0.42
1:t:382:TYR:HA	1:t:383:PRO:HA	1.81	0.42
1:u:91:GLN:N	1:u:91:GLN:CD	2.76	0.42
1:v:541:ILE:HD13	1:w:79:TYR:HB2	2.01	0.42
1:y:120:TRP:CD1	1:y:446:ARG:HB2	2.53	0.42
1:A:103:TRP:CE2	1:A:482:LYS:HD3	2.54	0.42
1:A:177:ALA:HA	1:I:270:ASP:O	2.19	0.42
1:A:318:HIS:HD2	1:I:423:SER:HB2	1.84	0.42
1:A:566:VAL:HG21	1:G:173:GLN:O	2.19	0.42
1:B:97:VAL:HG11	1:B:204:TYR:CZ	2.54	0.42
1:C:383:PRO:HG3	1:M:291:TYR:CD2	2.55	0.42
1:D:103:TRP:CE2	1:D:482:LYS:HD3	2.54	0.42
1:D:270:ASP:O	1:N:177:ALA:HA	2.19	0.42
1:E:173:GLN:O	1:F:566:VAL:HG21	2.19	0.42
1:F:97:VAL:HG11	1:F:204:TYR:CZ	2.54	0.42
1:F:105:TYR:HE1	1:F:178:GLN:HE22	1.66	0.42
1:G:325:ASP:CG	1:G:364:LYS:HG2	2.44	0.42
1:K:173:GLN:O	1:8:566:VAL:HG21	2.19	0.42
1:K:270:ASP:O	1:1:177:ALA:HA	2.18	0.42
1:M:79:TYR:HB2	1:3:541:ILE:HD13	2.01	0.42
1:M:97:VAL:HG11	1:M:204:TYR:CZ	2.54	0.42
1:M:311:LEU:HD22	1:2:434:TYR:CZ	2.55	0.42
1:O:103:TRP:CE2	1:O:482:LYS:HD3	2.54	0.42
1:P:97:VAL:HG11	1:P:204:TYR:CZ	2.54	0.42
1:R:97:VAL:HG11	1:R:204:TYR:CZ	2.54	0.42
1:T:423:SER:HB2	1:4:318:HIS:HD2	1.84	0.42
1:U:541:ILE:HD13	1:5:79:TYR:HB2	2.00	0.42
1:V:173:GLN:O	1:X:566:VAL:HG21	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:177:ALA:HA	1:X:270:ASP:O	2.19	0.42
1:W:423:SER:HB2	1:Y:318:HIS:HD2	1.84	0.42
1:Z:173:GLN:O	1:w:566:VAL:HG21	2.19	0.42
1:2:103:TRP:CE2	1:2:482:LYS:HD3	2.54	0.42
1:3:79:TYR:HB2	1:m:541:ILE:HD13	2.00	0.42
1:4:187:PRO:HD3	1:4:194:TRP:HD1	1.81	0.42
1:5:97:VAL:HG11	1:5:204:TYR:CZ	2.54	0.42
1:5:128:LYS:O	1:5:260:ASN:N	2.37	0.42
1:5:325:ASP:CG	1:5:364:LYS:HG2	2.44	0.42
1:6:291:TYR:CD2	1:b:383:PRO:HG3	2.54	0.42
1:6:423:SER:HB2	1:b:318:HIS:HD2	1.84	0.42
1:a:318:HIS:HD2	1:b:423:SER:HB2	1.84	0.42
1:a:383:PRO:HG3	1:b:291:TYR:CD2	2.55	0.42
1:d:103:TRP:CE2	1:d:482:LYS:HD3	2.54	0.42
1:f:97:VAL:HG11	1:f:204:TYR:CZ	2.54	0.42
1:g:61:VAL:HG23	1:g:514:VAL:HG11	2.01	0.42
1:i:270:ASP:O	1:j:177:ALA:HA	2.19	0.42
1:m:97:VAL:HG11	1:m:204:TYR:CZ	2.54	0.42
1:m:120:TRP:CD1	1:m:446:ARG:HB2	2.53	0.42
1:n:173:GLN:O	1:p:566:VAL:HG21	2.19	0.42
1:n:325:ASP:CG	1:n:364:LYS:HG2	2.44	0.42
1:n:566:VAL:HG21	1:o:173:GLN:O	2.19	0.42
1:r:434:TYR:CZ	1:s:311:LEU:HD22	2.54	0.42
1:y:103:TRP:CE2	1:y:482:LYS:HD3	2.54	0.42
1:y:383:PRO:HG3	1:7:291:TYR:CD2	2.54	0.42
1:z:423:SER:HB2	1:7:318:HIS:HD2	1.84	0.42
1:B:79:TYR:HB2	1:C:541:ILE:HD13	2.01	0.42
1:C:105:TYR:HE1	1:C:178:GLN:HE22	1.66	0.42
1:C:177:ALA:HA	1:M:270:ASP:O	2.19	0.42
1:C:434:TYR:CZ	1:2:311:LEU:HD22	2.54	0.42
1:F:311:LEU:HD22	1:Q:434:TYR:CZ	2.54	0.42
1:G:434:TYR:CZ	1:I:311:LEU:HD22	2.54	0.42
1:G:566:VAL:HG21	1:I:173:GLN:O	2.19	0.42
1:H:103:TRP:CE2	1:H:482:LYS:HD3	2.54	0.42
1:H:120:TRP:CD1	1:H:446:ARG:HB2	2.53	0.42
1:I:325:ASP:CG	1:I:364:LYS:HG2	2.44	0.42
1:K:318:HIS:HD2	1:8:423:SER:HB2	1.84	0.42
1:M:318:HIS:HD2	1:2:423:SER:HB2	1.84	0.42
1:N:434:TYR:CZ	1:P:311:LEU:HD22	2.54	0.42
1:O:97:VAL:HG11	1:O:204:TYR:CZ	2.54	0.42
1:P:103:TRP:CE2	1:P:482:LYS:HD3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:382:TYR:HA	1:Q:383:PRO:HA	1.81	0.42
1:R:79:TYR:HB2	1:V:541:ILE:HD13	2.01	0.42
1:R:179:HIS:NE2	1:U:302:PRO:O	2.31	0.42
1:R:311:LEU:HD22	1:U:434:TYR:CZ	2.55	0.42
1:T:434:TYR:CZ	1:4:311:LEU:HD22	2.54	0.42
1:W:291:TYR:CD2	1:Y:383:PRO:HG3	2.54	0.42
1:Y:541:ILE:HD13	1:x:79:TYR:HB2	2.01	0.42
1:Z:423:SER:HB2	1:x:318:HIS:HD2	1.84	0.42
1:2:61:VAL:HG23	1:2:514:VAL:HG11	2.01	0.42
1:2:90:LEU:HD12	1:2:365:GLN:HE21	1.65	0.42
1:4:120:TRP:CD1	1:4:446:ARG:HB2	2.54	0.42
1:5:541:ILE:HD13	1:b:79:TYR:HB2	2.01	0.42
1:a:173:GLN:O	1:b:566:VAL:HG21	2.19	0.42
1:c:434:TYR:CZ	1:d:311:LEU:HD22	2.54	0.42
1:e:103:TRP:CE2	1:e:482:LYS:HD3	2.54	0.42
1:g:434:TYR:CZ	1:h:311:LEU:HD22	2.54	0.42
1:h:90:LEU:HD13	1:h:342:VAL:HG11	1.82	0.42
1:i:105:TYR:HE1	1:i:178:GLN:HE22	1.66	0.42
1:k:97:VAL:HG11	1:k:204:TYR:CZ	2.54	0.42
1:k:311:LEU:HD22	1:m:434:TYR:CZ	2.55	0.42
1:q:173:GLN:O	1:s:566:VAL:HG21	2.19	0.42
1:q:383:PRO:HG3	1:s:291:TYR:CD2	2.54	0.42
1:r:325:ASP:CG	1:r:364:LYS:HG2	2.44	0.42
1:s:97:VAL:HG11	1:s:204:TYR:CZ	2.54	0.42
1:s:103:TRP:CE2	1:s:482:LYS:HD3	2.54	0.42
1:u:97:VAL:HG11	1:u:204:TYR:CZ	2.54	0.42
1:u:291:TYR:CD2	1:v:383:PRO:HG3	2.55	0.42
1:w:311:LEU:HD22	1:x:434:TYR:CZ	2.54	0.42
1:x:103:TRP:CE2	1:x:482:LYS:HD3	2.54	0.42
1:y:566:VAL:HG21	1:z:173:GLN:O	2.19	0.42
1:z:291:TYR:CD2	1:7:383:PRO:HG3	2.54	0.42
1:A:105:TYR:HE1	1:A:178:GLN:HE22	1.66	0.42
1:A:311:LEU:HD22	1:I:434:TYR:CZ	2.54	0.42
1:B:105:TYR:HE1	1:B:178:GLN:HE22	1.66	0.42
1:E:383:PRO:HG3	1:F:291:TYR:CD2	2.54	0.42
1:F:103:TRP:CE2	1:F:482:LYS:HD3	2.54	0.42
1:H:566:VAL:HG21	1:W:173:GLN:O	2.19	0.42
1:I:103:TRP:CE2	1:I:482:LYS:HD3	2.54	0.42
1:K:381:ASP:HA	1:K:401:ARG:HH11	1.85	0.42
1:K:434:TYR:CZ	1:1:311:LEU:HD22	2.54	0.42
1:L:97:VAL:HG11	1:L:204:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:103:TRP:CE2	1:L:482:LYS:HD3	2.54	0.42
1:M:383:PRO:HG3	1:2:291:TYR:CD2	2.55	0.42
1:R:318:HIS:CD2	1:U:423:SER:HB2	2.54	0.42
1:S:438:VAL:HG22	1:U:457:THR:HG21	2.02	0.42
1:V:382:TYR:HA	1:V:383:PRO:HA	1.81	0.42
1:Z:97:VAL:HG11	1:Z:204:TYR:CZ	2.54	0.42
1:Z:300:LYS:NZ	1:x:367:GLY:O	2.48	0.42
1:1:566:VAL:HG21	1:8:173:GLN:O	2.19	0.42
1:3:381:ASP:HA	1:3:401:ARG:HH11	1.85	0.42
1:4:105:TYR:HE1	1:4:178:GLN:HE22	1.66	0.42
1:5:381:ASP:HA	1:5:401:ARG:HH11	1.85	0.42
1:a:105:TYR:HE1	1:a:178:GLN:HE22	1.66	0.42
1:d:423:SER:HB2	1:e:318:HIS:HD2	1.84	0.42
1:g:291:TYR:CD2	1:h:383:PRO:HG3	2.55	0.42
1:h:120:TRP:CD1	1:h:446:ARG:HB2	2.54	0.42
1:j:541:ILE:HD13	1:k:79:TYR:HB2	2.01	0.42
1:l:325:ASP:CG	1:l:364:LYS:HG2	2.44	0.42
1:m:103:TRP:CE2	1:m:482:LYS:HD3	2.54	0.42
1:n:434:TYR:CZ	1:o:311:LEU:HD22	2.54	0.42
1:o:133:LYS:HA	1:o:133:LYS:HD2	1.90	0.42
1:o:325:ASP:CG	1:o:364:LYS:HG2	2.44	0.42
1:o:423:SER:HB2	1:p:318:HIS:HD2	1.84	0.42
1:o:434:TYR:CZ	1:p:311:LEU:HD22	2.54	0.42
1:q:325:ASP:CG	1:q:364:LYS:HG2	2.44	0.42
1:s:61:VAL:HG23	1:s:514:VAL:HG11	2.01	0.42
1:s:105:TYR:HE1	1:s:178:GLN:HE22	1.66	0.42
1:t:457:THR:HG21	1:v:438:VAL:HG22	2.02	0.42
1:w:177:ALA:HA	1:x:270:ASP:O	2.18	0.42
1:w:367:GLY:O	1:x:300:LYS:NZ	2.48	0.42
1:A:325:ASP:CG	1:A:364:LYS:HG2	2.44	0.42
1:C:325:ASP:CG	1:C:364:LYS:HG2	2.44	0.42
1:C:423:SER:HB2	1:2:318:HIS:HD2	1.84	0.42
1:D:61:VAL:HG23	1:D:514:VAL:HG11	2.01	0.42
1:D:97:VAL:HG11	1:D:204:TYR:CZ	2.54	0.42
1:E:325:ASP:CG	1:E:364:LYS:HG2	2.44	0.42
1:H:423:SER:HB2	1:W:318:HIS:HD2	1.84	0.42
1:K:138:ARG:HE	1:K:246:MET:HE1	1.82	0.42
1:K:291:TYR:CD2	1:1:383:PRO:HG3	2.55	0.42
1:O:86:THR:OG1	1:O:324:ASP:OD2	2.27	0.42
1:R:434:TYR:CZ	1:S:311:LEU:HD22	2.54	0.42
1:S:325:ASP:CG	1:S:364:LYS:HG2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:103:TRP:CE2	1:T:482:LYS:HD3	2.54	0.42
1:T:291:TYR:CD2	1:4:383:PRO:HG3	2.55	0.42
1:T:318:HIS:HD2	1:f:423:SER:HB2	1.84	0.42
1:U:74:LEU:HB2	1:U:102:PRO:O	2.20	0.42
1:U:103:TRP:CE2	1:U:482:LYS:HD3	2.54	0.42
1:U:381:ASP:HA	1:U:401:ARG:HH11	1.85	0.42
1:4:325:ASP:CG	1:4:364:LYS:HG2	2.44	0.42
1:4:434:TYR:CZ	1:f:311:LEU:HD22	2.55	0.42
1:6:61:VAL:HG23	1:6:514:VAL:HG11	2.01	0.42
1:a:325:ASP:CG	1:a:364:LYS:HG2	2.44	0.42
1:a:541:ILE:HD13	1:u:79:TYR:HB2	2.01	0.42
1:e:79:TYR:HB2	1:q:541:ILE:HD13	2.01	0.42
1:e:380:THR:O	1:e:384:THR:OG1	2.33	0.42
1:j:79:TYR:HB2	1:z:541:ILE:HD13	2.01	0.42
1:k:318:HIS:CD2	1:m:423:SER:HB2	2.54	0.42
1:l:438:VAL:HG22	1:m:457:THR:HG21	2.02	0.42
1:m:381:ASP:HA	1:m:401:ARG:HH11	1.85	0.42
1:r:423:SER:HB2	1:s:318:HIS:HD2	1.84	0.42
1:t:103:TRP:CE2	1:t:482:LYS:HD3	2.54	0.42
1:v:61:VAL:HG23	1:v:514:VAL:HG11	2.01	0.42
1:w:383:PRO:HG3	1:x:291:TYR:CD2	2.55	0.42
1:y:342:VAL:HG11	1:y:365:GLN:NE2	2.29	0.42
1:z:566:VAL:HG21	1:7:173:GLN:O	2.19	0.42
1:8:97:VAL:HG11	1:8:204:TYR:CZ	2.54	0.42
1:8:120:TRP:CD1	1:8:446:ARG:HB2	2.54	0.42
1:C:173:GLN:O	1:M:566:VAL:HG21	2.19	0.42
1:C:381:ASP:HA	1:C:401:ARG:HH11	1.85	0.42
1:D:74:LEU:HB2	1:D:102:PRO:O	2.20	0.42
1:D:79:TYR:HB2	1:E:541:ILE:HD13	2.01	0.42
1:D:438:VAL:HG22	1:N:457:THR:HG21	2.02	0.42
1:E:291:TYR:CD2	1:Q:383:PRO:HG3	2.55	0.42
1:F:61:VAL:HG23	1:F:514:VAL:HG11	2.01	0.42
1:F:318:HIS:HD2	1:Q:423:SER:HB2	1.84	0.42
1:F:457:THR:HG21	1:Q:438:VAL:HG22	2.02	0.42
1:H:74:LEU:HB2	1:H:102:PRO:O	2.20	0.42
1:H:173:GLN:O	1:Y:566:VAL:HG21	2.19	0.42
1:N:103:TRP:CE2	1:N:482:LYS:HD3	2.54	0.42
1:O:311:LEU:HD22	1:h:434:TYR:CZ	2.55	0.42
1:R:291:TYR:CD2	1:S:383:PRO:HG3	2.55	0.42
1:T:105:TYR:HE1	1:T:178:GLN:HE22	1.67	0.42
1:V:79:TYR:HB2	1:W:541:ILE:HD13	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:434:TYR:CZ	1:5:311:LEU:HD22	2.54	0.42
1:X:383:PRO:HG3	1:5:291:TYR:CD2	2.55	0.42
1:Z:120:TRP:CD1	1:Z:446:ARG:HB2	2.54	0.42
1:2:97:VAL:HG11	1:2:204:TYR:CZ	2.54	0.42
1:3:311:LEU:HD22	1:j:434:TYR:CZ	2.54	0.42
1:4:90:LEU:HD13	1:4:342:VAL:HG11	1.82	0.42
1:5:105:TYR:HE1	1:5:178:GLN:HE22	1.66	0.42
1:6:318:HIS:HD2	1:a:423:SER:HB2	1.84	0.42
1:a:90:LEU:CD1	1:a:365:GLN:CD	2.83	0.42
1:b:381:ASP:HA	1:b:401:ARG:HH11	1.85	0.42
1:c:457:THR:HG21	1:e:438:VAL:HG22	2.02	0.42
1:e:61:VAL:HG23	1:e:514:VAL:HG11	2.01	0.42
1:e:74:LEU:HB2	1:e:102:PRO:O	2.20	0.42
1:e:97:VAL:HG11	1:e:204:TYR:CZ	2.54	0.42
1:g:105:TYR:HE1	1:g:178:GLN:HE22	1.67	0.42
1:h:105:TYR:HE1	1:h:178:GLN:HE22	1.66	0.42
1:h:187:PRO:HD3	1:h:194:TRP:HD1	1.81	0.42
1:i:103:TRP:CE2	1:i:482:LYS:HD3	2.54	0.42
1:j:381:ASP:HA	1:j:401:ARG:HH11	1.85	0.42
1:k:291:TYR:CD2	1:l:383:PRO:HG3	2.55	0.42
1:k:434:TYR:CZ	1:l:311:LEU:HD22	2.54	0.42
1:m:74:LEU:HB2	1:m:102:PRO:O	2.20	0.42
1:o:291:TYR:CD2	1:p:383:PRO:HG3	2.55	0.42
1:o:382:TYR:HA	1:o:383:PRO:HA	1.81	0.42
1:p:105:TYR:HE1	1:p:178:GLN:HE22	1.66	0.42
1:p:325:ASP:CG	1:p:364:LYS:HG2	2.44	0.42
1:q:291:TYR:CD2	1:r:383:PRO:HG3	2.55	0.42
1:r:438:VAL:HG22	1:s:457:THR:HG21	2.02	0.42
1:t:97:VAL:HG11	1:t:204:TYR:CZ	2.54	0.42
1:u:61:VAL:HG23	1:u:514:VAL:HG11	2.01	0.42
1:x:381:ASP:HA	1:x:401:ARG:HH11	1.85	0.42
1:y:74:LEU:HB2	1:y:102:PRO:O	2.20	0.42
1:A:383:PRO:HG3	1:I:291:TYR:CD2	2.55	0.42
1:A:434:TYR:CZ	1:G:311:LEU:HD22	2.55	0.42
1:C:90:LEU:CD1	1:C:365:GLN:CD	2.83	0.42
1:D:311:LEU:HD22	1:P:434:TYR:CZ	2.54	0.42
1:F:383:PRO:HG3	1:Q:291:TYR:CD2	2.55	0.42
1:H:194:TRP:CZ3	1:H:196:LEU:HD23	2.55	0.42
1:H:342:VAL:HG11	1:H:365:GLN:NE2	2.29	0.42
1:I:133:LYS:HA	1:I:133:LYS:HD2	1.90	0.42
1:N:194:TRP:CZ3	1:N:196:LEU:HD23	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:381:ASP:HA	1:N:401:ARG:HH11	1.85	0.42
1:N:541:ILE:HD13	1:g:79:TYR:HB2	2.01	0.42
1:O:423:SER:HB2	1:g:318:HIS:HD2	1.84	0.42
1:O:438:VAL:HG22	1:g:457:THR:HG21	2.02	0.42
1:Q:381:ASP:HA	1:Q:401:ARG:HH11	1.85	0.42
1:R:74:LEU:HB2	1:R:102:PRO:O	2.20	0.42
1:R:457:THR:HG21	1:U:438:VAL:HG22	2.02	0.42
1:T:457:THR:HG21	1:f:438:VAL:HG22	2.02	0.42
1:V:381:ASP:HA	1:V:401:ARG:HH11	1.85	0.42
1:V:457:THR:HG21	1:X:438:VAL:HG22	2.02	0.42
1:W:566:VAL:HG21	1:Y:173:GLN:O	2.19	0.42
1:Z:90:LEU:HD12	1:Z:365:GLN:HE21	1.65	0.42
1:Z:311:LEU:HD22	1:w:434:TYR:CZ	2.55	0.42
1:1:434:TYR:CZ	1:8:311:LEU:HD22	2.55	0.42
1:3:291:TYR:CD2	1:i:383:PRO:HG3	2.54	0.42
1:4:61:VAL:HG23	1:4:514:VAL:HG11	2.01	0.42
1:4:108:LEU:HD13	1:4:108:LEU:HA	1.81	0.42
1:6:97:VAL:HG11	1:6:204:TYR:CZ	2.54	0.42
1:a:381:ASP:HA	1:a:401:ARG:HH11	1.85	0.42
1:a:457:THR:HG21	1:b:438:VAL:HG22	2.02	0.42
1:c:103:TRP:CE2	1:c:482:LYS:HD3	2.54	0.42
1:d:434:TYR:CZ	1:e:311:LEU:HD22	2.54	0.42
1:f:194:TRP:CZ3	1:f:196:LEU:HD23	2.55	0.42
1:g:103:TRP:CE2	1:g:482:LYS:HD3	2.54	0.42
1:i:434:TYR:CZ	1:j:311:LEU:HD22	2.54	0.42
1:j:382:TYR:HA	1:j:383:PRO:HA	1.81	0.42
1:k:74:LEU:HB2	1:k:102:PRO:O	2.20	0.42
1:k:457:THR:HG21	1:m:438:VAL:HG22	2.02	0.42
1:o:90:LEU:HD12	1:o:365:GLN:HE21	1.65	0.42
1:o:103:TRP:CE2	1:o:482:LYS:HD3	2.54	0.42
1:q:97:VAL:HG11	1:q:204:TYR:CZ	2.54	0.42
1:r:291:TYR:CD2	1:s:383:PRO:HG3	2.55	0.42
1:r:381:ASP:HA	1:r:401:ARG:HH11	1.85	0.42
1:u:105:TYR:HE1	1:u:178:GLN:HE22	1.66	0.42
1:u:434:TYR:CZ	1:v:311:LEU:HD22	2.54	0.42
1:y:423:SER:HB2	1:z:318:HIS:HD2	1.84	0.42
1:B:61:VAL:HG23	1:B:514:VAL:HG11	2.01	0.42
1:B:438:VAL:HG22	1:J:457:THR:HG21	2.01	0.42
1:C:457:THR:HG21	1:M:438:VAL:HG22	2.02	0.42
1:D:291:TYR:CD2	1:N:383:PRO:HG3	2.54	0.42
1:D:325:ASP:CG	1:D:364:LYS:HG2	2.44	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:381:ASP:HA	1:D:401:ARG:HH11	1.85	0.42
1:E:97:VAL:HG11	1:E:204:TYR:CZ	2.54	0.42
1:E:381:ASP:HA	1:E:401:ARG:HH11	1.85	0.42
1:G:103:TRP:CE2	1:G:482:LYS:HD3	2.54	0.42
1:G:108:LEU:HD13	1:G:108:LEU:HA	1.81	0.42
1:G:194:TRP:CZ3	1:G:196:LEU:HD23	2.55	0.42
1:I:90:LEU:HD12	1:I:365:GLN:HE21	1.65	0.42
1:J:61:VAL:HG23	1:J:514:VAL:HG11	2.01	0.42
1:K:300:LYS:NZ	1:I:367:GLY:O	2.48	0.42
1:M:381:ASP:HA	1:M:401:ARG:HH11	1.85	0.42
1:O:194:TRP:CZ3	1:O:196:LEU:HD23	2.55	0.42
1:S:120:TRP:CD1	1:S:446:ARG:HB2	2.53	0.42
1:T:79:TYR:HB2	1:c:541:ILE:HD13	2.01	0.42
1:T:383:PRO:HG3	1:f:291:TYR:CD2	2.55	0.42
1:V:311:LEU:HD22	1:X:434:TYR:CZ	2.54	0.42
1:W:194:TRP:CZ3	1:W:196:LEU:HD23	2.55	0.42
1:W:325:ASP:CG	1:W:364:LYS:HG2	2.44	0.42
1:X:103:TRP:CE2	1:X:482:LYS:HD3	2.54	0.42
1:X:541:ILE:HD13	1:Y:79:TYR:HB2	2.01	0.42
1:Y:380:THR:O	1:Y:384:THR:OG1	2.33	0.42
1:Z:74:LEU:HB2	1:Z:102:PRO:O	2.20	0.42
1:3:105:TYR:HE1	1:3:178:GLN:HE22	1.66	0.42
1:5:61:VAL:HG23	1:5:514:VAL:HG11	2.01	0.42
1:5:108:LEU:HD13	1:5:108:LEU:HA	1.81	0.42
1:6:325:ASP:CG	1:6:364:LYS:HG2	2.44	0.42
1:c:194:TRP:CZ3	1:c:196:LEU:HD23	2.55	0.42
1:c:381:ASP:HA	1:c:401:ARG:HH11	1.85	0.42
1:e:325:ASP:CG	1:e:364:LYS:HG2	2.44	0.42
1:h:61:VAL:HG23	1:h:514:VAL:HG11	2.01	0.42
1:h:325:ASP:CG	1:h:364:LYS:HG2	2.44	0.42
1:j:74:LEU:HB2	1:j:102:PRO:O	2.20	0.42
1:k:179:HIS:NE2	1:m:302:PRO:O	2.31	0.42
1:k:541:ILE:HD13	1:s:79:TYR:HB2	2.01	0.42
1:l:103:TRP:CE2	1:l:482:LYS:HD3	2.54	0.42
1:n:103:TRP:CE2	1:n:482:LYS:HD3	2.54	0.42
1:n:194:TRP:CZ3	1:n:196:LEU:HD23	2.55	0.42
1:o:381:ASP:HA	1:o:401:ARG:HH11	1.85	0.42
1:q:381:ASP:HA	1:q:401:ARG:HH11	1.85	0.42
1:r:566:VAL:HG21	1:s:173:GLN:O	2.19	0.42
1:t:105:TYR:HE1	1:t:178:GLN:HE22	1.66	0.42
1:w:61:VAL:HG23	1:w:514:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:97:VAL:HG11	1:y:204:TYR:CZ	2.54	0.42
1:y:173:GLN:O	1:7:566:VAL:HG21	2.19	0.42
1:y:194:TRP:CZ3	1:y:196:LEU:HD23	2.55	0.42
1:z:97:VAL:HG11	1:z:204:TYR:CZ	2.54	0.42
1:z:194:TRP:CZ3	1:z:196:LEU:HD23	2.55	0.42
1:z:325:ASP:CG	1:z:364:LYS:HG2	2.44	0.42
1:z:438:VAL:HG22	1:7:457:THR:HG21	2.02	0.42
1:7:74:LEU:HB2	1:7:102:PRO:O	2.20	0.42
1:7:382:TYR:HA	1:7:383:PRO:HA	1.81	0.42
1:8:74:LEU:HB2	1:8:102:PRO:O	2.20	0.42
1:8:90:LEU:HD12	1:8:365:GLN:HE21	1.65	0.42
1:B:103:TRP:CE2	1:B:482:LYS:HD3	2.54	0.42
1:B:311:LEU:HD22	1:L:434:TYR:CZ	2.55	0.42
1:C:97:VAL:HG11	1:C:204:TYR:CZ	2.54	0.42
1:F:79:TYR:HB2	1:R:541:ILE:HD13	2.01	0.42
1:F:173:GLN:O	1:Q:566:VAL:HG21	2.19	0.42
1:H:97:VAL:HG11	1:H:204:TYR:CZ	2.54	0.42
1:H:438:VAL:HG22	1:W:457:THR:HG21	2.02	0.42
1:I:61:VAL:HG23	1:I:514:VAL:HG11	2.01	0.42
1:K:311:LEU:HD22	1:8:434:TYR:CZ	2.54	0.42
1:L:74:LEU:HB2	1:L:102:PRO:O	2.20	0.42
1:L:105:TYR:HE1	1:L:178:GLN:HE22	1.67	0.42
1:O:291:TYR:CD2	1:g:383:PRO:HG3	2.55	0.42
1:O:541:ILE:HD13	1:P:79:TYR:HB2	2.01	0.42
1:S:103:TRP:CE2	1:S:482:LYS:HD3	2.54	0.42
1:U:325:ASP:CG	1:U:364:LYS:HG2	2.44	0.42
1:V:74:LEU:HB2	1:V:102:PRO:O	2.20	0.42
1:V:318:HIS:HD2	1:X:423:SER:HB2	1.84	0.42
1:V:383:PRO:HG3	1:X:291:TYR:CD2	2.55	0.42
1:W:97:VAL:HG11	1:W:204:TYR:CZ	2.54	0.42
1:W:438:VAL:HG22	1:Y:457:THR:HG21	2.02	0.42
1:Y:74:LEU:HB2	1:Y:102:PRO:O	2.20	0.42
1:1:381:ASP:HA	1:1:401:ARG:HH11	1.85	0.42
1:2:325:ASP:CG	1:2:364:LYS:HG2	2.44	0.42
1:6:90:LEU:HD12	1:6:365:GLN:HE21	1.65	0.42
1:a:97:VAL:HG11	1:a:204:TYR:CZ	2.54	0.42
1:b:133:LYS:HA	1:b:133:LYS:HD2	1.90	0.42
1:b:541:ILE:HD13	1:c:79:TYR:HB2	2.01	0.42
1:c:383:PRO:HG3	1:e:291:TYR:CD2	2.54	0.42
1:f:74:LEU:HB2	1:f:102:PRO:O	2.20	0.42
1:i:423:SER:HB2	1:j:318:HIS:HD2	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:438:VAL:HG22	1:j:457:THR:HG21	2.02	0.42
1:n:311:LEU:HD22	1:p:434:TYR:CZ	2.55	0.42
1:o:61:VAL:HG23	1:o:514:VAL:HG11	2.01	0.42
1:o:566:VAL:HG21	1:p:173:GLN:O	2.19	0.42
1:p:61:VAL:HG23	1:p:514:VAL:HG11	2.01	0.42
1:p:90:LEU:HD13	1:p:342:VAL:HG11	1.82	0.42
1:t:383:PRO:HG3	1:v:291:TYR:CD2	2.54	0.42
1:t:434:TYR:CZ	1:u:311:LEU:HD22	2.55	0.42
1:u:194:TRP:CZ3	1:u:196:LEU:HD23	2.55	0.42
1:x:97:VAL:HG11	1:x:204:TYR:CZ	2.54	0.42
1:y:438:VAL:HG22	1:z:457:THR:HG21	2.02	0.42
1:A:541:ILE:HD13	1:E:79:TYR:HB2	2.01	0.41
1:B:194:TRP:CZ3	1:B:196:LEU:HD23	2.55	0.41
1:E:311:LEU:HD22	1:F:434:TYR:CZ	2.55	0.41
1:E:438:VAL:HG22	1:Q:457:THR:HG21	2.02	0.41
1:I:381:ASP:HA	1:I:401:ARG:HH11	1.85	0.41
1:J:305:TRP:CE2	1:L:455:PRO:HD3	2.55	0.41
1:K:383:PRO:HG3	1:8:291:TYR:CD2	2.55	0.41
1:O:74:LEU:HB2	1:O:102:PRO:O	2.20	0.41
1:S:97:VAL:HG11	1:S:204:TYR:CZ	2.54	0.41
1:S:105:TYR:HE1	1:S:178:GLN:HE22	1.66	0.41
1:S:194:TRP:CZ3	1:S:196:LEU:HD23	2.55	0.41
1:S:541:ILE:HD13	1:4:79:TYR:HB2	2.01	0.41
1:Y:61:VAL:HG23	1:Y:514:VAL:HG11	2.01	0.41
1:Z:434:TYR:CZ	1:x:311:LEU:HD22	2.54	0.41
1:1:61:VAL:HG23	1:1:514:VAL:HG11	2.01	0.41
1:3:61:VAL:HG23	1:3:514:VAL:HG11	2.01	0.41
1:4:74:LEU:HB2	1:4:102:PRO:O	2.20	0.41
1:6:74:LEU:HB2	1:6:102:PRO:O	2.20	0.41
1:6:381:ASP:HA	1:6:401:ARG:HH11	1.85	0.41
1:d:79:TYR:HB2	1:f:541:ILE:HD13	2.01	0.41
1:d:541:ILE:HD13	1:r:79:TYR:HB2	2.01	0.41
1:e:381:ASP:HA	1:e:401:ARG:HH11	1.85	0.41
1:h:74:LEU:HB2	1:h:102:PRO:O	2.20	0.41
1:h:79:TYR:HB2	1:l:541:ILE:HD13	2.01	0.41
1:i:291:TYR:CD2	1:j:383:PRO:HG3	2.55	0.41
1:i:541:ILE:HD13	1:7:79:TYR:HB2	2.01	0.41
1:j:103:TRP:CE2	1:j:482:LYS:HD3	2.54	0.41
1:l:120:TRP:CD1	1:l:446:ARG:HB2	2.53	0.41
1:m:325:ASP:CG	1:m:364:LYS:HG2	2.44	0.41
1:p:381:ASP:HA	1:p:401:ARG:HH11	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:541:ILE:HD13	1:q:79:TYR:HB2	2.01	0.41
1:q:438:VAL:HG22	1:r:457:THR:HG21	2.02	0.41
1:s:194:TRP:CZ3	1:s:196:LEU:HD23	2.55	0.41
1:t:74:LEU:HB2	1:t:102:PRO:O	2.20	0.41
1:u:103:TRP:CE2	1:u:482:LYS:HD3	2.54	0.41
1:x:74:LEU:HB2	1:x:102:PRO:O	2.20	0.41
1:z:300:LYS:NZ	1:7:367:GLY:O	2.48	0.41
1:A:173:GLN:O	1:I:566:VAL:HG21	2.19	0.41
1:A:291:TYR:CD2	1:G:383:PRO:HG3	2.55	0.41
1:B:381:ASP:HA	1:B:401:ARG:HH11	1.85	0.41
1:B:423:SER:HB2	1:J:318:HIS:HD2	1.83	0.41
1:F:194:TRP:CZ3	1:F:196:LEU:HD23	2.55	0.41
1:F:215:ASN:HD22	1:F:354:GLY:HA3	1.86	0.41
1:I:382:TYR:HA	1:I:383:PRO:HA	1.81	0.41
1:K:74:LEU:HB2	1:K:102:PRO:O	2.20	0.41
1:K:97:VAL:HG11	1:K:204:TYR:CZ	2.54	0.41
1:O:128:LYS:O	1:O:260:ASN:N	2.37	0.41
1:O:325:ASP:CG	1:O:364:LYS:HG2	2.44	0.41
1:O:457:THR:HG21	1:h:438:VAL:HG22	2.02	0.41
1:P:381:ASP:HA	1:P:401:ARG:HH11	1.85	0.41
1:P:541:ILE:HD13	1:Q:79:TYR:HB2	2.01	0.41
1:R:438:VAL:HG22	1:S:457:THR:HG21	2.02	0.41
1:S:74:LEU:HB2	1:S:102:PRO:O	2.20	0.41
1:S:381:ASP:HA	1:S:401:ARG:HH11	1.85	0.41
1:V:103:TRP:CE2	1:V:482:LYS:HD3	2.54	0.41
1:W:300:LYS:NZ	1:Y:367:GLY:O	2.48	0.41
1:Y:382:TYR:HA	1:Y:383:PRO:HA	1.81	0.41
1:Z:90:LEU:CD1	1:Z:365:GLN:CD	2.83	0.41
1:Z:291:TYR:CD2	1:x:383:PRO:HG3	2.55	0.41
1:1:103:TRP:CE2	1:1:482:LYS:HD3	2.54	0.41
1:2:74:LEU:HB2	1:2:102:PRO:O	2.20	0.41
1:3:108:LEU:HD13	1:3:108:LEU:HA	1.81	0.41
1:3:194:TRP:CZ3	1:3:196:LEU:HD23	2.55	0.41
1:4:194:TRP:CZ3	1:4:196:LEU:HD23	2.55	0.41
1:5:194:TRP:CZ3	1:5:196:LEU:HD23	2.55	0.41
1:c:173:GLN:O	1:e:566:VAL:HG21	2.19	0.41
1:c:291:TYR:CD2	1:d:383:PRO:HG3	2.54	0.41
1:c:382:TYR:HA	1:c:383:PRO:HA	1.81	0.41
1:c:566:VAL:HG21	1:d:173:GLN:O	2.19	0.41
1:l:74:LEU:HB2	1:l:102:PRO:O	2.20	0.41
1:l:97:VAL:HG11	1:l:204:TYR:CZ	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:105:TYR:HE1	1:l:178:GLN:HE22	1.66	0.41
1:l:194:TRP:CZ3	1:l:196:LEU:HD23	2.55	0.41
1:q:311:LEU:HD22	1:s:434:TYR:CZ	2.55	0.41
1:r:61:VAL:HG23	1:r:514:VAL:HG11	2.01	0.41
1:r:97:VAL:HG11	1:r:204:TYR:CZ	2.54	0.41
1:s:215:ASN:HD22	1:s:354:GLY:HA3	1.86	0.41
1:t:194:TRP:CZ3	1:t:196:LEU:HD23	2.55	0.41
1:u:381:ASP:HA	1:u:401:ARG:HH11	1.85	0.41
1:w:103:TRP:CE2	1:w:482:LYS:HD3	2.54	0.41
1:w:381:ASP:HA	1:w:401:ARG:HH11	1.85	0.41
1:y:318:HIS:HD2	1:7:423:SER:HB2	1.84	0.41
1:7:61:VAL:HG23	1:7:514:VAL:HG11	2.01	0.41
1:A:61:VAL:HG23	1:A:514:VAL:HG11	2.01	0.41
1:A:194:TRP:CZ3	1:A:196:LEU:HD23	2.55	0.41
1:B:457:THR:HG21	1:L:438:VAL:HG22	2.02	0.41
1:C:215:ASN:HD22	1:C:354:GLY:HA3	1.86	0.41
1:D:90:LEU:CD1	1:D:365:GLN:CD	2.83	0.41
1:D:566:VAL:HG21	1:N:173:GLN:O	2.19	0.41
1:H:318:HIS:HD2	1:Y:423:SER:HB2	1.84	0.41
1:H:457:THR:HG21	1:Y:438:VAL:HG22	2.02	0.41
1:I:74:LEU:HB2	1:I:102:PRO:O	2.20	0.41
1:L:90:LEU:CD1	1:L:365:GLN:CD	2.83	0.41
1:M:215:ASN:HD22	1:M:354:GLY:HA3	1.86	0.41
1:M:457:THR:HG21	1:2:438:VAL:HG22	2.02	0.41
1:M:541:ILE:HD13	1:N:79:TYR:HB2	2.01	0.41
1:N:291:TYR:CD2	1:P:383:PRO:HG3	2.54	0.41
1:N:566:VAL:HG21	1:P:173:GLN:O	2.19	0.41
1:Q:61:VAL:HG23	1:Q:514:VAL:HG11	2.01	0.41
1:Q:97:VAL:HG11	1:Q:204:TYR:CZ	2.54	0.41
1:R:381:ASP:HA	1:R:401:ARG:HH11	1.85	0.41
1:V:291:TYR:CD2	1:5:383:PRO:HG3	2.55	0.41
1:V:438:VAL:HG22	1:5:457:THR:HG21	2.02	0.41
1:W:381:ASP:HA	1:W:401:ARG:HH11	1.85	0.41
1:X:74:LEU:HB2	1:X:102:PRO:O	2.20	0.41
1:X:311:LEU:HD22	1:5:434:TYR:CZ	2.55	0.41
1:4:438:VAL:HG22	1:f:457:THR:HG21	2.02	0.41
1:a:74:LEU:HB2	1:a:102:PRO:O	2.20	0.41
1:d:380:THR:O	1:d:384:THR:OG1	2.33	0.41
1:d:381:ASP:HA	1:d:401:ARG:HH11	1.85	0.41
1:f:325:ASP:CG	1:f:364:LYS:HG2	2.44	0.41
1:g:438:VAL:HG22	1:h:457:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:108:LEU:HD13	1:h:108:LEU:HA	1.81	0.41
1:h:194:TRP:CZ3	1:h:196:LEU:HD23	2.55	0.41
1:i:74:LEU:HB2	1:i:102:PRO:O	2.20	0.41
1:k:103:TRP:CE2	1:k:482:LYS:HD3	2.54	0.41
1:k:381:ASP:HA	1:k:401:ARG:HH11	1.85	0.41
1:l:381:ASP:HA	1:l:401:ARG:HH11	1.85	0.41
1:n:383:PRO:HG3	1:p:291:TYR:CD2	2.54	0.41
1:p:79:TYR:HB2	1:u:541:ILE:HD13	2.01	0.41
1:p:194:TRP:CZ3	1:p:196:LEU:HD23	2.55	0.41
1:q:74:LEU:HB2	1:q:102:PRO:O	2.20	0.41
1:r:74:LEU:HB2	1:r:102:PRO:O	2.20	0.41
1:t:90:LEU:CD1	1:t:365:GLN:CD	2.83	0.41
1:t:438:VAL:HG22	1:u:457:THR:HG21	2.02	0.41
1:8:381:ASP:HA	1:8:401:ARG:HH11	1.85	0.41
1:A:381:ASP:HA	1:A:401:ARG:HH11	1.85	0.41
1:A:457:THR:HG21	1:I:438:VAL:HG22	2.02	0.41
1:C:74:LEU:HB2	1:C:102:PRO:O	2.20	0.41
1:D:215:ASN:HD22	1:D:354:GLY:HA3	1.86	0.41
1:E:74:LEU:HB2	1:E:102:PRO:O	2.20	0.41
1:G:61:VAL:HG23	1:G:514:VAL:HG11	2.01	0.41
1:H:215:ASN:HD22	1:H:354:GLY:HA3	1.86	0.41
1:I:194:TRP:CZ3	1:I:196:LEU:HD23	2.55	0.41
1:J:133:LYS:HA	1:J:133:LYS:HD2	1.90	0.41
1:L:194:TRP:CZ3	1:L:196:LEU:HD23	2.55	0.41
1:L:215:ASN:HD22	1:L:354:GLY:HA3	1.86	0.41
1:M:74:LEU:HB2	1:M:102:PRO:O	2.20	0.41
1:M:194:TRP:CZ3	1:M:196:LEU:HD23	2.55	0.41
1:P:325:ASP:CG	1:P:364:LYS:HG2	2.44	0.41
1:Q:74:LEU:HB2	1:Q:102:PRO:O	2.20	0.41
1:T:438:VAL:HG22	1:4:457:THR:HG21	2.02	0.41
1:U:194:TRP:CZ3	1:U:196:LEU:HD23	2.55	0.41
1:V:215:ASN:HD22	1:V:354:GLY:HA3	1.86	0.41
1:X:84:GLN:HG3	1:X:94:LYS:HB3	2.03	0.41
1:Z:381:ASP:HA	1:Z:401:ARG:HH11	1.85	0.41
1:2:381:ASP:HA	1:2:401:ARG:HH11	1.85	0.41
1:3:383:PRO:HG3	1:j:291:TYR:CD2	2.55	0.41
1:3:457:THR:HG21	1:j:438:VAL:HG22	2.02	0.41
1:6:438:VAL:HG22	1:b:457:THR:HG21	2.02	0.41
1:a:215:ASN:HD22	1:a:354:GLY:HA3	1.86	0.41
1:b:74:LEU:HB2	1:b:102:PRO:O	2.20	0.41
1:c:438:VAL:HG22	1:d:457:THR:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:325:ASP:CG	1:d:364:LYS:HG2	2.44	0.41
1:e:215:ASN:HD22	1:e:354:GLY:HA3	1.86	0.41
1:i:84:GLN:HG3	1:i:94:LYS:HB3	2.03	0.41
1:j:215:ASN:HD22	1:j:354:GLY:HA3	1.86	0.41
1:k:438:VAL:HG22	1:l:457:THR:HG21	2.02	0.41
1:l:423:SER:HB2	1:m:318:HIS:CD2	2.56	0.41
1:m:194:TRP:CZ3	1:m:196:LEU:HD23	2.55	0.41
1:n:61:VAL:HG23	1:n:514:VAL:HG11	2.01	0.41
1:n:74:LEU:HB2	1:n:102:PRO:O	2.20	0.41
1:o:438:VAL:HG22	1:p:457:THR:HG21	2.02	0.41
1:r:194:TRP:CZ3	1:r:196:LEU:HD23	2.55	0.41
1:y:215:ASN:HD22	1:y:354:GLY:HA3	1.86	0.41
1:y:457:THR:HG21	1:7:438:VAL:HG22	2.02	0.41
1:z:381:ASP:HA	1:z:401:ARG:HH11	1.85	0.41
1:7:103:TRP:CE2	1:7:482:LYS:HD3	2.54	0.41
1:8:194:TRP:CZ3	1:8:196:LEU:HD23	2.55	0.41
1:A:79:TYR:HB2	1:B:541:ILE:HD13	2.01	0.41
1:B:74:LEU:HB2	1:B:102:PRO:O	2.20	0.41
1:G:74:LEU:HB2	1:G:102:PRO:O	2.20	0.41
1:G:86:THR:OG1	1:G:324:ASP:OD2	2.27	0.41
1:G:291:TYR:CD2	1:I:383:PRO:HG3	2.55	0.41
1:G:381:ASP:HA	1:G:401:ARG:HH11	1.85	0.41
1:H:90:LEU:CD1	1:H:365:GLN:CD	2.83	0.41
1:J:97:VAL:HG11	1:J:204:TYR:CZ	2.54	0.41
1:K:143:GLN:HE21	1:L:161:THR:C	2.29	0.41
1:M:367:GLY:O	1:2:300:LYS:NZ	2.48	0.41
1:N:215:ASN:HD22	1:N:354:GLY:HA3	1.86	0.41
1:N:438:VAL:HG22	1:P:457:THR:HG21	2.02	0.41
1:Q:194:TRP:CZ3	1:Q:196:LEU:HD23	2.55	0.41
1:R:103:TRP:CE2	1:R:482:LYS:HD3	2.54	0.41
1:R:566:VAL:HG21	1:S:173:GLN:O	2.19	0.41
1:S:300:LYS:NZ	1:U:367:GLY:O	2.49	0.41
1:S:423:SER:HB2	1:U:318:HIS:CD2	2.56	0.41
1:X:90:LEU:CD1	1:X:365:GLN:CD	2.83	0.41
1:X:194:TRP:CZ3	1:X:196:LEU:HD23	2.55	0.41
1:Z:194:TRP:CZ3	1:Z:196:LEU:HD23	2.55	0.41
1:1:291:TYR:CD2	1:8:383:PRO:HG3	2.55	0.41
1:3:434:TYR:CZ	1:i:311:LEU:HD22	2.55	0.41
1:b:194:TRP:CZ3	1:b:196:LEU:HD23	2.55	0.41
1:b:215:ASN:HD22	1:b:354:GLY:HA3	1.86	0.41
1:f:128:LYS:O	1:f:260:ASN:N	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:194:TRP:CZ3	1:i:196:LEU:HD23	2.55	0.41
1:k:133:LYS:HA	1:k:133:LYS:HD2	1.90	0.41
1:k:215:ASN:HD22	1:k:354:GLY:HA3	1.85	0.41
1:l:300:LYS:NZ	1:m:367:GLY:O	2.49	0.41
1:n:108:LEU:HD13	1:n:108:LEU:HA	1.81	0.41
1:n:291:TYR:CD2	1:o:383:PRO:HG3	2.55	0.41
1:o:74:LEU:HB2	1:o:102:PRO:O	2.20	0.41
1:t:161:THR:C	1:x:143:GLN:HE21	2.29	0.41
1:t:381:ASP:HA	1:t:401:ARG:HH11	1.85	0.41
1:v:133:LYS:HA	1:v:133:LYS:HD2	1.90	0.41
1:v:215:ASN:HD22	1:v:354:GLY:HA3	1.86	0.41
1:v:381:ASP:HA	1:v:401:ARG:HH11	1.85	0.41
1:y:90:LEU:CD1	1:y:365:GLN:CD	2.83	0.41
1:7:194:TRP:CZ3	1:7:196:LEU:HD23	2.55	0.41
1:8:90:LEU:CD1	1:8:365:GLN:CD	2.83	0.41
1:J:215:ASN:HD22	1:J:354:GLY:HA3	1.86	0.41
1:J:381:ASP:HA	1:J:401:ARG:HH11	1.85	0.41
1:M:133:LYS:HA	1:M:133:LYS:HD2	1.90	0.41
1:Q:108:LEU:HD13	1:Q:108:LEU:HA	1.81	0.41
1:S:61:VAL:HG23	1:S:514:VAL:HG11	2.01	0.41
1:T:342:VAL:HG11	1:T:365:GLN:NE2	2.29	0.41
1:W:215:ASN:HD22	1:W:354:GLY:HA3	1.86	0.41
1:Y:103:TRP:CE2	1:Y:482:LYS:HD3	2.54	0.41
1:Y:194:TRP:CZ3	1:Y:196:LEU:HD23	2.55	0.41
1:Z:383:PRO:HG3	1:w:291:TYR:CD2	2.55	0.41
1:4:215:ASN:HD22	1:4:354:GLY:HA3	1.86	0.41
1:5:84:GLN:HG3	1:5:94:LYS:HB3	2.03	0.41
1:c:215:ASN:HD22	1:c:354:GLY:HA3	1.86	0.41
1:d:74:LEU:HB2	1:d:102:PRO:O	2.20	0.41
1:e:90:LEU:CD1	1:e:365:GLN:CD	2.83	0.41
1:i:90:LEU:CD1	1:i:365:GLN:CD	2.83	0.41
1:o:194:TRP:CZ3	1:o:196:LEU:HD23	2.55	0.41
1:t:215:ASN:HD22	1:t:354:GLY:HA3	1.86	0.41
1:t:318:HIS:CD2	1:v:423:SER:HB2	2.56	0.41
1:v:97:VAL:HG11	1:v:204:TYR:CZ	2.54	0.41
1:8:133:LYS:HA	1:8:133:LYS:HD2	1.90	0.41
1:8:215:ASN:HD22	1:8:354:GLY:HA3	1.86	0.41
1:L:381:ASP:HA	1:L:401:ARG:HH11	1.85	0.41
1:P:74:LEU:HB2	1:P:102:PRO:O	2.20	0.41
1:Q:84:GLN:HG3	1:Q:94:LYS:HB3	2.03	0.41
1:R:215:ASN:HD22	1:R:354:GLY:HA3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:108:LEU:HD13	1:S:108:LEU:HA	1.81	0.41
1:V:179:HIS:HB3	1:V:182:ASP:OD1	2.21	0.41
1:Z:215:ASN:HD22	1:Z:354:GLY:HA3	1.86	0.41
1:1:215:ASN:HD22	1:1:354:GLY:HA3	1.85	0.41
1:1:438:VAL:HG22	1:8:457:THR:HG21	2.02	0.41
1:3:84:GLN:HG3	1:3:94:LYS:HB3	2.03	0.41
1:3:90:LEU:CD1	1:3:365:GLN:CD	2.83	0.41
1:6:383:PRO:HG3	1:a:291:TYR:CD2	2.55	0.41
1:d:194:TRP:CZ3	1:d:196:LEU:HD23	2.55	0.41
1:d:438:VAL:HG22	1:e:457:THR:HG21	2.02	0.41
1:h:215:ASN:HD22	1:h:354:GLY:HA3	1.86	0.41
1:h:381:ASP:HA	1:h:401:ARG:HH11	1.85	0.41
1:k:367:GLY:O	1:m:300:LYS:NZ	2.50	0.41
1:k:566:VAL:HG21	1:l:173:GLN:O	2.19	0.41
1:n:318:HIS:HD2	1:p:423:SER:HB2	1.84	0.41
1:u:74:LEU:HB2	1:u:102:PRO:O	2.20	0.41
1:w:215:ASN:HD22	1:w:354:GLY:HA3	1.85	0.41
1:w:457:THR:HG21	1:x:438:VAL:HG22	2.02	0.41
1:x:194:TRP:CZ3	1:x:196:LEU:HD23	2.55	0.41
1:y:90:LEU:HD12	1:y:365:GLN:HE21	1.64	0.41
1:y:381:ASP:HA	1:y:401:ARG:HH11	1.85	0.41
1:z:215:ASN:HD22	1:z:354:GLY:HA3	1.86	0.41
1:A:438:VAL:HG22	1:G:457:THR:HG21	2.02	0.41
1:C:187:PRO:HD3	1:C:194:TRP:HD1	1.81	0.41
1:C:291:TYR:CD2	1:2:383:PRO:HG3	2.55	0.41
1:C:382:TYR:HA	1:C:383:PRO:HA	1.81	0.41
1:E:457:THR:HG21	1:F:438:VAL:HG22	2.02	0.41
1:G:84:GLN:HG3	1:G:94:LYS:HB3	2.03	0.41
1:H:381:ASP:HA	1:H:401:ARG:HH11	1.85	0.41
1:I:84:GLN:HG3	1:I:94:LYS:HB3	2.03	0.41
1:K:438:VAL:HG22	1:1:457:THR:HG21	2.02	0.41
1:N:382:TYR:HA	1:N:383:PRO:HA	1.81	0.41
1:O:179:HIS:HB3	1:O:182:ASP:OD1	2.21	0.41
1:O:187:PRO:HD3	1:O:194:TRP:HD1	1.81	0.41
1:P:194:TRP:CZ3	1:P:196:LEU:HD23	2.55	0.41
1:Q:90:LEU:CD1	1:Q:365:GLN:CD	2.83	0.41
1:S:90:LEU:CD1	1:S:365:GLN:CD	2.83	0.41
1:T:173:GLN:O	1:f:566:VAL:HG21	2.19	0.41
1:V:194:TRP:CZ3	1:V:196:LEU:HD23	2.55	0.41
1:Y:381:ASP:HA	1:Y:401:ARG:HH11	1.85	0.41
1:Z:457:THR:HG21	1:w:438:VAL:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:108:LEU:HD13	1:2:108:LEU:HA	1.81	0.41
1:5:90:LEU:CD1	1:5:365:GLN:CD	2.83	0.41
1:6:179:HIS:HB3	1:6:182:ASP:OD1	2.21	0.41
1:6:300:LYS:NZ	1:b:367:GLY:O	2.48	0.41
1:a:382:TYR:HA	1:a:383:PRO:HA	1.81	0.41
1:c:342:VAL:HG11	1:c:365:GLN:NE2	2.29	0.41
1:j:179:HIS:HB3	1:j:182:ASP:OD1	2.21	0.41
1:l:61:VAL:HG23	1:l:514:VAL:HG11	2.01	0.41
1:l:90:LEU:CD1	1:l:365:GLN:CD	2.83	0.41
1:n:381:ASP:HA	1:n:401:ARG:HH11	1.85	0.41
1:o:84:GLN:HG3	1:o:94:LYS:HB3	2.03	0.41
1:p:342:VAL:HG11	1:p:365:GLN:NE2	2.29	0.41
1:r:84:GLN:HG3	1:r:94:LYS:HB3	2.03	0.41
1:r:90:LEU:CD1	1:r:365:GLN:CD	2.83	0.41
1:v:74:LEU:HB2	1:v:102:PRO:O	2.20	0.41
1:x:108:LEU:HA	1:x:108:LEU:HD13	1.81	0.41
1:A:215:ASN:HD22	1:A:354:GLY:HA3	1.86	0.41
1:A:342:VAL:HG11	1:A:365:GLN:NE2	2.29	0.41
1:A:423:SER:HB2	1:G:318:HIS:HD2	1.84	0.41
1:C:108:LEU:HD13	1:C:108:LEU:HA	1.81	0.41
1:D:194:TRP:CZ3	1:D:196:LEU:HD23	2.55	0.41
1:D:457:THR:HG21	1:P:438:VAL:HG22	2.02	0.41
1:E:194:TRP:CZ3	1:E:196:LEU:HD23	2.55	0.41
1:F:84:GLN:HG3	1:F:94:LYS:HB3	2.03	0.41
1:F:179:HIS:HB3	1:F:182:ASP:OD1	2.21	0.41
1:F:380:THR:O	1:F:384:THR:OG1	2.33	0.41
1:G:179:HIS:HB3	1:G:182:ASP:OD1	2.21	0.41
1:G:300:LYS:NZ	1:I:367:GLY:O	2.48	0.41
1:G:438:VAL:HG22	1:I:457:THR:HG21	2.02	0.41
1:J:74:LEU:HB2	1:J:102:PRO:O	2.20	0.41
1:K:84:GLN:HG3	1:K:94:LYS:HB3	2.03	0.41
1:K:194:TRP:CZ3	1:K:196:LEU:HD23	2.55	0.41
1:L:84:GLN:HG3	1:L:94:LYS:HB3	2.03	0.41
1:M:105:TYR:HE1	1:M:178:GLN:HE22	1.66	0.41
1:M:179:HIS:HB3	1:M:182:ASP:OD1	2.21	0.41
1:N:74:LEU:HB2	1:N:102:PRO:O	2.20	0.41
1:N:90:LEU:HD12	1:N:365:GLN:HE21	1.64	0.41
1:N:342:VAL:HG11	1:N:365:GLN:NE2	2.29	0.41
1:O:79:TYR:HB2	1:4:541:ILE:HD13	2.01	0.41
1:O:566:VAL:HG21	1:g:173:GLN:O	2.19	0.41
1:P:84:GLN:HG3	1:P:94:LYS:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:90:LEU:HD12	1:R:365:GLN:HE21	1.65	0.41
1:R:133:LYS:HA	1:R:133:LYS:HD2	1.90	0.41
1:S:179:HIS:HB3	1:S:182:ASP:OD1	2.21	0.41
1:T:128:LYS:O	1:T:260:ASN:N	2.37	0.41
1:T:194:TRP:CZ3	1:T:196:LEU:HD23	2.55	0.41
1:T:215:ASN:HD22	1:T:354:GLY:HA3	1.86	0.41
1:T:381:ASP:HA	1:T:401:ARG:HH11	1.85	0.41
1:W:108:LEU:HD13	1:W:108:LEU:HA	1.81	0.41
1:W:179:HIS:HB3	1:W:182:ASP:OD1	2.21	0.41
1:X:381:ASP:HA	1:X:401:ARG:HH11	1.85	0.41
1:Y:179:HIS:HB3	1:Y:182:ASP:OD1	2.21	0.41
1:Z:128:LYS:O	1:Z:260:ASN:N	2.37	0.41
1:Z:133:LYS:HA	1:Z:133:LYS:HD2	1.90	0.41
1:Z:187:PRO:HD3	1:Z:194:TRP:HD1	1.81	0.41
1:1:194:TRP:CZ3	1:1:196:LEU:HD23	2.55	0.41
1:2:84:GLN:HG3	1:2:94:LYS:HB3	2.03	0.41
1:2:179:HIS:HB3	1:2:182:ASP:OD1	2.21	0.41
1:2:215:ASN:HD22	1:2:354:GLY:HA3	1.86	0.41
1:3:215:ASN:HD22	1:3:354:GLY:HA3	1.86	0.41
1:4:84:GLN:HG3	1:4:94:LYS:HB3	2.03	0.41
1:4:381:ASP:HA	1:4:401:ARG:HH11	1.85	0.41
1:5:215:ASN:HD22	1:5:354:GLY:HA3	1.86	0.41
1:6:84:GLN:HG3	1:6:94:LYS:HB3	2.03	0.41
1:b:179:HIS:HB3	1:b:182:ASP:OD1	2.21	0.41
1:c:74:LEU:HB2	1:c:102:PRO:O	2.20	0.41
1:c:90:LEU:HD12	1:c:365:GLN:HE21	1.64	0.41
1:f:79:TYR:HB2	1:h:541:ILE:HD13	2.01	0.41
1:f:105:TYR:HE1	1:f:178:GLN:HE22	1.66	0.41
1:f:179:HIS:HB3	1:f:182:ASP:OD1	2.21	0.41
1:f:187:PRO:HD3	1:f:194:TRP:HD1	1.81	0.41
1:f:381:ASP:HA	1:f:401:ARG:HH11	1.85	0.41
1:g:74:LEU:HB2	1:g:102:PRO:O	2.20	0.41
1:g:84:GLN:HG3	1:g:94:LYS:HB3	2.03	0.41
1:g:342:VAL:HG11	1:g:365:GLN:NE2	2.29	0.41
1:h:84:GLN:HG3	1:h:94:LYS:HB3	2.03	0.41
1:h:86:THR:OG1	1:h:324:ASP:OD2	2.27	0.41
1:i:179:HIS:HB3	1:i:182:ASP:OD1	2.21	0.41
1:i:381:ASP:HA	1:i:401:ARG:HH11	1.85	0.41
1:j:194:TRP:CZ3	1:j:196:LEU:HD23	2.55	0.41
1:k:90:LEU:HD12	1:k:365:GLN:HE21	1.65	0.41
1:n:84:GLN:HG3	1:n:94:LYS:HB3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:86:THR:OG1	1:n:324:ASP:OD2	2.27	0.41
1:n:179:HIS:HB3	1:n:182:ASP:OD1	2.21	0.41
1:n:300:LYS:NZ	1:o:367:GLY:O	2.48	0.41
1:n:423:SER:HB2	1:o:318:HIS:CD2	2.56	0.41
1:n:438:VAL:HG22	1:o:457:THR:HG21	2.02	0.41
1:n:457:THR:HG21	1:p:438:VAL:HG22	2.02	0.41
1:q:194:TRP:CZ3	1:q:196:LEU:HD23	2.55	0.41
1:q:457:THR:HG21	1:s:438:VAL:HG22	2.02	0.41
1:s:84:GLN:HG3	1:s:94:LYS:HB3	2.03	0.41
1:s:179:HIS:HB3	1:s:182:ASP:OD1	2.21	0.41
1:t:84:GLN:HG3	1:t:94:LYS:HB3	2.03	0.41
1:t:356:ASN:H	1:v:411:TYR:HH	1.64	0.41
1:w:194:TRP:CZ3	1:w:196:LEU:HD23	2.55	0.41
1:x:84:GLN:HG3	1:x:94:LYS:HB3	2.03	0.41
1:x:179:HIS:HB3	1:x:182:ASP:OD1	2.21	0.41
1:z:179:HIS:HB3	1:z:182:ASP:OD1	2.21	0.41
1:7:179:HIS:HB3	1:7:182:ASP:OD1	2.21	0.41
1:7:381:ASP:HA	1:7:401:ARG:HH11	1.85	0.41
1:F:381:ASP:HA	1:F:401:ARG:HH11	1.85	0.41
1:G:215:ASN:HD22	1:G:354:GLY:HA3	1.86	0.41
1:H:84:GLN:HG3	1:H:94:LYS:HB3	2.03	0.41
1:K:179:HIS:HB3	1:K:182:ASP:OD1	2.21	0.41
1:N:179:HIS:HB3	1:N:182:ASP:OD1	2.21	0.41
1:N:300:LYS:NZ	1:P:367:GLY:O	2.48	0.41
1:O:105:TYR:HE1	1:O:178:GLN:HE22	1.66	0.41
1:O:381:ASP:HA	1:O:401:ARG:HH11	1.85	0.41
1:P:215:ASN:HD22	1:P:354:GLY:HA3	1.86	0.41
1:S:84:GLN:HG3	1:S:94:LYS:HB3	2.03	0.41
1:T:74:LEU:HB2	1:T:102:PRO:O	2.20	0.41
1:T:84:GLN:HG3	1:T:94:LYS:HB3	2.03	0.41
1:W:74:LEU:HB2	1:W:102:PRO:O	2.20	0.41
1:X:179:HIS:HB3	1:X:182:ASP:OD1	2.21	0.41
1:4:128:LYS:O	1:4:260:ASN:N	2.37	0.41
1:6:215:ASN:HD22	1:6:354:GLY:HA3	1.86	0.41
1:b:105:TYR:HE1	1:b:178:GLN:HE22	1.66	0.41
1:d:84:GLN:HG3	1:d:94:LYS:HB3	2.03	0.41
1:e:194:TRP:CZ3	1:e:196:LEU:HD23	2.55	0.41
1:g:215:ASN:HD22	1:g:354:GLY:HA3	1.86	0.41
1:g:300:LYS:NZ	1:h:367:GLY:O	2.48	0.41
1:g:381:ASP:HA	1:g:401:ARG:HH11	1.85	0.41
1:h:128:LYS:O	1:h:260:ASN:N	2.37	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:179:HIS:HB3	1:l:182:ASP:OD1	2.21	0.41
1:m:215:ASN:HD22	1:m:354:GLY:HA3	1.86	0.41
1:n:215:ASN:HD22	1:n:354:GLY:HA3	1.86	0.41
1:q:215:ASN:HD22	1:q:354:GLY:HA3	1.86	0.41
1:u:84:GLN:HG3	1:u:94:LYS:HB3	2.03	0.41
1:u:438:VAL:HG22	1:v:457:THR:HG21	2.02	0.41
1:v:194:TRP:CZ3	1:v:196:LEU:HD23	2.55	0.41
1:y:179:HIS:HB3	1:y:182:ASP:OD1	2.21	0.41
1:B:84:GLN:HG3	1:B:94:LYS:HB3	2.03	0.40
1:B:423:SER:HB2	1:J:318:HIS:CD2	2.56	0.40
1:C:438:VAL:HG22	1:2:457:THR:HG21	2.02	0.40
1:E:215:ASN:HD22	1:E:354:GLY:HA3	1.86	0.40
1:E:423:SER:HB2	1:Q:318:HIS:CD2	2.57	0.40
1:F:90:LEU:HD12	1:F:365:GLN:HE21	1.65	0.40
1:G:423:SER:HB2	1:I:318:HIS:CD2	2.57	0.40
1:H:179:HIS:HB3	1:H:182:ASP:OD1	2.21	0.40
1:I:342:VAL:HG11	1:I:365:GLN:NE2	2.29	0.40
1:J:179:HIS:HB3	1:J:182:ASP:OD1	2.21	0.40
1:J:194:TRP:CZ3	1:J:196:LEU:HD23	2.55	0.40
1:J:382:TYR:HA	1:J:383:PRO:HA	1.81	0.40
1:P:179:HIS:HB3	1:P:182:ASP:OD1	2.21	0.40
1:U:179:HIS:HB3	1:U:182:ASP:OD1	2.21	0.40
1:X:457:THR:HG21	1:5:438:VAL:HG22	2.02	0.40
1:1:108:LEU:HD13	1:1:108:LEU:HA	1.81	0.40
1:4:380:THR:O	1:4:384:THR:OG1	2.33	0.40
1:6:367:GLY:O	1:a:300:LYS:NZ	2.48	0.40
1:b:84:GLN:HG3	1:b:94:LYS:HB3	2.03	0.40
1:c:179:HIS:HB3	1:c:182:ASP:OD1	2.21	0.40
1:d:215:ASN:HD22	1:d:354:GLY:HA3	1.86	0.40
1:g:128:LYS:O	1:g:260:ASN:N	2.37	0.40
1:g:194:TRP:CZ3	1:g:196:LEU:HD23	2.55	0.40
1:l:84:GLN:HG3	1:l:94:LYS:HB3	2.03	0.40
1:o:342:VAL:HG11	1:o:365:GLN:NE2	2.29	0.40
1:p:215:ASN:HD22	1:p:354:GLY:HA3	1.86	0.40
1:q:423:SER:HB2	1:r:318:HIS:CD2	2.57	0.40
1:r:108:LEU:HD13	1:r:108:LEU:HA	1.81	0.40
1:s:381:ASP:HA	1:s:401:ARG:HH11	1.85	0.40
1:w:74:LEU:HB2	1:w:102:PRO:O	2.20	0.40
1:x:215:ASN:HD22	1:x:354:GLY:HA3	1.86	0.40
1:y:84:GLN:HG3	1:y:94:LYS:HB3	2.03	0.40
1:A:84:GLN:HG3	1:A:94:LYS:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:179:HIS:NE2	1:L:302:PRO:O	2.31	0.40
1:E:179:HIS:HB3	1:E:182:ASP:OD1	2.21	0.40
1:M:432:TRP:CG	1:2:432:TRP:HB2	2.57	0.40
1:R:194:TRP:CZ3	1:R:196:LEU:HD23	2.55	0.40
1:U:133:LYS:HD2	1:U:133:LYS:HA	1.90	0.40
1:U:215:ASN:HD22	1:U:354:GLY:HA3	1.86	0.40
1:V:367:GLY:O	1:X:300:LYS:NZ	2.48	0.40
1:V:432:TRP:CG	1:X:432:TRP:HB2	2.57	0.40
1:1:74:LEU:HB2	1:1:102:PRO:O	2.20	0.40
1:5:133:LYS:HA	1:5:133:LYS:HD2	1.90	0.40
1:6:108:LEU:HD13	1:6:108:LEU:HA	1.81	0.40
1:6:133:LYS:HA	1:6:133:LYS:HD2	1.90	0.40
1:a:187:PRO:HD3	1:a:194:TRP:HD1	1.81	0.40
1:c:300:LYS:NZ	1:d:367:GLY:O	2.48	0.40
1:d:179:HIS:HB3	1:d:182:ASP:OD1	2.21	0.40
1:i:432:TRP:HB2	1:j:432:TRP:CG	2.57	0.40
1:k:179:HIS:HB3	1:k:182:ASP:OD1	2.21	0.40
1:l:108:LEU:HD13	1:l:108:LEU:HA	1.81	0.40
1:l:215:ASN:HD22	1:l:354:GLY:HA3	1.85	0.40
1:m:179:HIS:HB3	1:m:182:ASP:OD1	2.21	0.40
1:p:84:GLN:HG3	1:p:94:LYS:HB3	2.03	0.40
1:q:179:HIS:HB3	1:q:182:ASP:OD1	2.21	0.40
1:t:179:HIS:HB3	1:t:182:ASP:OD1	2.21	0.40
1:v:179:HIS:HB3	1:v:182:ASP:OD1	2.21	0.40
1:z:74:LEU:HB2	1:z:102:PRO:O	2.20	0.40
1:A:74:LEU:HB2	1:A:102:PRO:O	2.20	0.40
1:D:84:GLN:HG3	1:D:94:LYS:HB3	2.03	0.40
1:D:318:HIS:CD2	1:P:423:SER:HB2	2.57	0.40
1:E:84:GLN:HG3	1:E:94:LYS:HB3	2.03	0.40
1:F:318:HIS:CD2	1:Q:423:SER:HB2	2.57	0.40
1:H:90:LEU:HD12	1:H:365:GLN:HE21	1.64	0.40
1:I:215:ASN:HD22	1:I:354:GLY:HA3	1.85	0.40
1:K:215:ASN:HD22	1:K:354:GLY:HA3	1.86	0.40
1:M:84:GLN:HG3	1:M:94:LYS:HB3	2.03	0.40
1:Q:179:HIS:HB3	1:Q:182:ASP:OD1	2.21	0.40
1:R:179:HIS:HB3	1:R:182:ASP:OD1	2.21	0.40
1:T:300:LYS:NZ	1:4:367:GLY:O	2.48	0.40
1:V:432:TRP:HB2	1:5:432:TRP:CG	2.57	0.40
1:3:133:LYS:HA	1:3:133:LYS:HD2	1.90	0.40
1:3:179:HIS:HB3	1:3:182:ASP:OD1	2.21	0.40
1:3:432:TRP:CG	1:j:432:TRP:HB2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:438:VAL:HG22	1:i:457:THR:HG21	2.02	0.40
1:4:86:THR:OG1	1:4:324:ASP:OD2	2.27	0.40
1:6:432:TRP:HB2	1:b:432:TRP:CG	2.57	0.40
1:d:423:SER:HB2	1:e:318:HIS:CD2	2.57	0.40
1:h:380:THR:O	1:h:384:THR:OG1	2.33	0.40
1:i:382:TYR:HA	1:i:383:PRO:HA	1.81	0.40
1:k:194:TRP:CZ3	1:k:196:LEU:HD23	2.55	0.40
1:m:84:GLN:HG3	1:m:94:LYS:HB3	2.03	0.40
1:m:108:LEU:HD13	1:m:108:LEU:HA	1.81	0.40
1:q:84:GLN:HG3	1:q:94:LYS:HB3	2.03	0.40
1:r:179:HIS:HB3	1:r:182:ASP:OD1	2.21	0.40
1:r:423:SER:HB2	1:s:318:HIS:CD2	2.57	0.40
1:t:42:SER:HA	1:t:45:PHE:HB2	2.04	0.40
1:u:423:SER:HB2	1:v:318:HIS:HD2	1.84	0.40
1:y:318:HIS:CD2	1:7:423:SER:HB2	2.57	0.40
1:z:108:LEU:HA	1:z:108:LEU:HD13	1.81	0.40
1:8:187:PRO:HD3	1:8:194:TRP:HD1	1.81	0.40
1:A:179:HIS:HB3	1:A:182:ASP:OD1	2.21	0.40
1:A:432:TRP:HB2	1:G:432:TRP:CG	2.57	0.40
1:B:187:PRO:HD3	1:B:194:TRP:HD1	1.81	0.40
1:C:179:HIS:HB3	1:C:182:ASP:OD1	2.21	0.40
1:E:432:TRP:HB2	1:Q:432:TRP:CG	2.57	0.40
1:F:74:LEU:HB2	1:F:102:PRO:O	2.20	0.40
1:H:318:HIS:CD2	1:Y:423:SER:HB2	2.57	0.40
1:K:193:ILE:HG21	1:L:487:PRO:HB3	2.03	0.40
1:K:423:SER:HB2	1:1:318:HIS:CD2	2.57	0.40
1:Q:215:ASN:HD22	1:Q:354:GLY:HA3	1.86	0.40
1:R:432:TRP:HB2	1:S:432:TRP:CG	2.57	0.40
1:U:84:GLN:HG3	1:U:94:LYS:HB3	2.03	0.40
1:W:423:SER:HB2	1:Y:318:HIS:CD2	2.57	0.40
1:X:215:ASN:HD22	1:X:354:GLY:HA3	1.86	0.40
1:Y:84:GLN:HG3	1:Y:94:LYS:HB3	2.03	0.40
1:Z:367:GLY:O	1:w:300:LYS:NZ	2.48	0.40
1:Z:382:TYR:HA	1:Z:383:PRO:HA	1.81	0.40
1:1:42:SER:HA	1:1:45:PHE:HB2	2.04	0.40
1:3:74:LEU:HB2	1:3:102:PRO:O	2.20	0.40
1:5:74:LEU:HB2	1:5:102:PRO:O	2.20	0.40
1:5:179:HIS:HB3	1:5:182:ASP:OD1	2.21	0.40
1:6:318:HIS:CD2	1:a:423:SER:HB2	2.57	0.40
1:6:457:THR:HG21	1:a:438:VAL:HG22	2.02	0.40
1:f:84:GLN:HG3	1:f:94:LYS:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:215:ASN:HD22	1:f:354:GLY:HA3	1.86	0.40
1:n:432:TRP:CG	1:p:432:TRP:HB2	2.57	0.40
1:p:74:LEU:HB2	1:p:102:PRO:O	2.20	0.40
1:q:432:TRP:HB2	1:r:432:TRP:CG	2.57	0.40
1:u:382:TYR:HA	1:u:383:PRO:HA	1.81	0.40
1:w:318:HIS:CD2	1:x:423:SER:HB2	2.57	0.40
1:w:432:TRP:CG	1:x:432:TRP:HB2	2.57	0.40
1:C:318:HIS:CD2	1:M:423:SER:HB2	2.57	0.40
1:D:279:ARG:HE	1:D:302:PRO:CG	2.35	0.40
1:E:432:TRP:CG	1:F:432:TRP:HB2	2.57	0.40
1:H:432:TRP:HB2	1:W:432:TRP:CG	2.57	0.40
1:K:432:TRP:HB2	1:1:432:TRP:CG	2.57	0.40
1:K:432:TRP:CG	1:8:432:TRP:HB2	2.57	0.40
1:L:42:SER:HA	1:L:45:PHE:HB2	2.04	0.40
1:L:179:HIS:HB3	1:L:182:ASP:OD1	2.21	0.40
1:O:84:GLN:HG3	1:O:94:LYS:HB3	2.03	0.40
1:O:215:ASN:HD22	1:O:354:GLY:HA3	1.86	0.40
1:O:432:TRP:HB2	1:g:432:TRP:CG	2.57	0.40
1:O:432:TRP:CG	1:h:432:TRP:HB2	2.57	0.40
1:S:215:ASN:HD22	1:S:354:GLY:HA3	1.86	0.40
1:W:42:SER:HA	1:W:45:PHE:HB2	2.04	0.40
1:X:432:TRP:CG	1:5:432:TRP:HB2	2.57	0.40
1:Y:42:SER:HA	1:Y:45:PHE:HB2	2.04	0.40
1:2:42:SER:HA	1:2:45:PHE:HB2	2.04	0.40
1:3:432:TRP:HB2	1:i:432:TRP:CG	2.57	0.40
1:6:42:SER:HA	1:6:45:PHE:HB2	2.04	0.40
1:a:179:HIS:HB3	1:a:182:ASP:OD1	2.21	0.40
1:a:318:HIS:CD2	1:b:423:SER:HB2	2.57	0.40
1:i:300:LYS:NZ	1:j:367:GLY:O	2.48	0.40
1:k:432:TRP:HB2	1:l:432:TRP:CG	2.57	0.40
1:n:318:HIS:CD2	1:p:423:SER:HB2	2.57	0.40
1:n:432:TRP:HB2	1:o:432:TRP:CG	2.57	0.40
1:o:423:SER:HB2	1:p:318:HIS:CD2	2.57	0.40
1:q:432:TRP:CG	1:s:432:TRP:HB2	2.57	0.40
1:r:432:TRP:HB2	1:s:432:TRP:CG	2.57	0.40
1:s:90:LEU:HD12	1:s:365:GLN:HE21	1.65	0.40
1:t:302:PRO:O	1:u:179:HIS:NE2	2.31	0.40
1:t:487:PRO:HB3	1:x:193:ILE:HG21	2.03	0.40
1:w:42:SER:HA	1:w:45:PHE:HB2	2.04	0.40
1:y:432:TRP:HB2	1:z:432:TRP:CG	2.57	0.40
1:z:42:SER:HA	1:z:45:PHE:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:423:SER:HB2	1:7:318:HIS:CD2	2.57	0.40
1:7:42:SER:HA	1:7:45:PHE:HB2	2.04	0.40
1:7:84:GLN:HG3	1:7:94:LYS:HB3	2.03	0.40
1:7:215:ASN:HD22	1:7:354:GLY:HA3	1.86	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	2	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	3	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	4	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	5	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	6	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	7	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	8	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	A	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	B	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	C	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	D	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	E	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	F	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	G	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	H	526/567 (93%)	515 (98%)	11 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	J	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	K	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	L	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	M	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	N	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	O	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	P	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	Q	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	R	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	S	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	T	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	U	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	V	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	W	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	X	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	Y	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	Z	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	a	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	b	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	c	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	d	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	e	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	f	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	g	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	h	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	i	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	j	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	k	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	l	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	m	526/567 (93%)	515 (98%)	11 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	n	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	o	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	p	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	q	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	r	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	s	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	t	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	u	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	v	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	w	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	x	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	y	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
1	z	526/567 (93%)	515 (98%)	11 (2%)	0	100	100
All	All	31560/34020 (93%)	30900 (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	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	2	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	3	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	4	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	5	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	6	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	7	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	8	465/483 (96%)	463 (100%)	2 (0%)	89	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	B	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	C	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	D	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	E	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	F	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	G	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	H	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	I	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	J	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	K	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	L	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	M	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	N	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	O	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	P	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	Q	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	R	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	S	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	T	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	U	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	V	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	W	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	X	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	Y	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	Z	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	a	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	b	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	c	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	d	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	e	465/483 (96%)	463 (100%)	2 (0%)	89	94

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	f	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	g	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	h	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	i	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	j	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	k	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	l	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	m	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	n	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	o	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	p	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	q	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	r	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	s	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	t	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	u	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	v	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	w	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	x	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	y	465/483 (96%)	463 (100%)	2 (0%)	89	94
1	z	465/483 (96%)	463 (100%)	2 (0%)	89	94
All	All	27900/28980 (96%)	27780 (100%)	120 (0%)	88	94

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

Mol	Chain	Res	Type
1	A	311	LEU
1	A	405	ILE
1	B	311	LEU
1	B	405	ILE
1	C	311	LEU
1	C	405	ILE
1	D	311	LEU
1	D	405	ILE
1	E	311	LEU

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Mol	Chain	Res	Type
1	E	405	ILE
1	F	311	LEU
1	F	405	ILE
1	G	311	LEU
1	G	405	ILE
1	H	311	LEU
1	H	405	ILE
1	I	311	LEU
1	I	405	ILE
1	J	311	LEU
1	J	405	ILE
1	K	311	LEU
1	K	405	ILE
1	L	311	LEU
1	L	405	ILE
1	M	311	LEU
1	M	405	ILE
1	N	311	LEU
1	N	405	ILE
1	O	311	LEU
1	O	405	ILE
1	P	311	LEU
1	P	405	ILE
1	Q	311	LEU
1	Q	405	ILE
1	R	311	LEU
1	R	405	ILE
1	S	311	LEU
1	S	405	ILE
1	T	311	LEU
1	T	405	ILE
1	U	311	LEU
1	U	405	ILE
1	V	311	LEU
1	V	405	ILE
1	W	311	LEU
1	W	405	ILE
1	X	311	LEU
1	X	405	ILE
1	Y	311	LEU
1	Y	405	ILE
1	Z	311	LEU

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Mol	Chain	Res	Type
1	Z	405	ILE
1	1	311	LEU
1	1	405	ILE
1	2	311	LEU
1	2	405	ILE
1	3	311	LEU
1	3	405	ILE
1	4	311	LEU
1	4	405	ILE
1	5	311	LEU
1	5	405	ILE
1	6	311	LEU
1	6	405	ILE
1	a	311	LEU
1	a	405	ILE
1	b	311	LEU
1	b	405	ILE
1	c	311	LEU
1	c	405	ILE
1	d	311	LEU
1	d	405	ILE
1	e	311	LEU
1	e	405	ILE
1	f	311	LEU
1	f	405	ILE
1	g	311	LEU
1	g	405	ILE
1	h	311	LEU
1	h	405	ILE
1	i	311	LEU
1	i	405	ILE
1	j	311	LEU
1	j	405	ILE
1	k	311	LEU
1	k	405	ILE
1	l	311	LEU
1	l	405	ILE
1	m	311	LEU
1	m	405	ILE
1	n	311	LEU
1	n	405	ILE
1	o	311	LEU

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Mol	Chain	Res	Type
1	o	405	ILE
1	p	311	LEU
1	p	405	ILE
1	q	311	LEU
1	q	405	ILE
1	r	311	LEU
1	r	405	ILE
1	s	311	LEU
1	s	405	ILE
1	t	311	LEU
1	t	405	ILE
1	u	311	LEU
1	u	405	ILE
1	v	311	LEU
1	v	405	ILE
1	w	311	LEU
1	w	405	ILE
1	x	311	LEU
1	x	405	ILE
1	y	311	LEU
1	y	405	ILE
1	z	311	LEU
1	z	405	ILE
1	7	311	LEU
1	7	405	ILE
1	8	311	LEU
1	8	405	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1127) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	65	ASN
1	A	84	GLN
1	A	112	HIS
1	A	158	ASN
1	A	178	GLN
1	A	205	GLN
1	A	219	ASN
1	A	227	ASN
1	A	289	ASN
1	A	318	HIS
1	A	321	GLN

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Mol	Chain	Res	Type
1	A	365	GLN
1	A	427	ASN
1	A	436	ASN
1	A	474	HIS
1	A	535	GLN
1	A	536	HIS
1	A	544	ASN
1	B	65	ASN
1	B	77	HIS
1	B	84	GLN
1	B	112	HIS
1	B	158	ASN
1	B	178	GLN
1	B	198	GLN
1	B	205	GLN
1	B	227	ASN
1	B	289	ASN
1	B	318	HIS
1	B	321	GLN
1	B	365	GLN
1	B	427	ASN
1	B	436	ASN
1	B	459	HIS
1	B	474	HIS
1	B	535	GLN
1	B	536	HIS
1	B	544	ASN
1	C	65	ASN
1	C	84	GLN
1	C	112	HIS
1	C	158	ASN
1	C	178	GLN
1	C	198	GLN
1	C	205	GLN
1	C	227	ASN
1	C	289	ASN
1	C	318	HIS
1	C	321	GLN
1	C	365	GLN
1	C	436	ASN
1	C	459	HIS
1	C	474	HIS

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Mol	Chain	Res	Type
1	C	535	GLN
1	C	536	HIS
1	C	544	ASN
1	D	65	ASN
1	D	84	GLN
1	D	112	HIS
1	D	158	ASN
1	D	178	GLN
1	D	205	GLN
1	D	227	ASN
1	D	289	ASN
1	D	318	HIS
1	D	321	GLN
1	D	365	GLN
1	D	427	ASN
1	D	436	ASN
1	D	459	HIS
1	D	474	HIS
1	D	535	GLN
1	D	536	HIS
1	D	544	ASN
1	E	65	ASN
1	E	84	GLN
1	E	112	HIS
1	E	143	GLN
1	E	158	ASN
1	E	178	GLN
1	E	198	GLN
1	E	205	GLN
1	E	227	ASN
1	E	289	ASN
1	E	318	HIS
1	E	321	GLN
1	E	365	GLN
1	E	427	ASN
1	E	436	ASN
1	E	459	HIS
1	E	474	HIS
1	E	535	GLN
1	E	536	HIS
1	E	544	ASN
1	F	65	ASN

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Mol	Chain	Res	Type
1	F	77	HIS
1	F	84	GLN
1	F	112	HIS
1	F	158	ASN
1	F	178	GLN
1	F	198	GLN
1	F	205	GLN
1	F	227	ASN
1	F	289	ASN
1	F	318	HIS
1	F	321	GLN
1	F	365	GLN
1	F	436	ASN
1	F	459	HIS
1	F	474	HIS
1	F	535	GLN
1	F	536	HIS
1	F	544	ASN
1	G	65	ASN
1	G	77	HIS
1	G	84	GLN
1	G	112	HIS
1	G	158	ASN
1	G	178	GLN
1	G	205	GLN
1	G	219	ASN
1	G	227	ASN
1	G	289	ASN
1	G	318	HIS
1	G	321	GLN
1	G	365	GLN
1	G	427	ASN
1	G	436	ASN
1	G	459	HIS
1	G	474	HIS
1	G	535	GLN
1	G	536	HIS
1	G	544	ASN
1	H	65	ASN
1	H	84	GLN
1	H	112	HIS
1	H	158	ASN

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Mol	Chain	Res	Type
1	H	178	GLN
1	H	205	GLN
1	H	219	ASN
1	H	227	ASN
1	H	289	ASN
1	H	318	HIS
1	H	321	GLN
1	H	365	GLN
1	H	436	ASN
1	H	459	HIS
1	H	474	HIS
1	H	535	GLN
1	H	536	HIS
1	H	544	ASN
1	I	65	ASN
1	I	84	GLN
1	I	112	HIS
1	I	143	GLN
1	I	158	ASN
1	I	178	GLN
1	I	205	GLN
1	I	227	ASN
1	I	289	ASN
1	I	318	HIS
1	I	321	GLN
1	I	365	GLN
1	I	427	ASN
1	I	436	ASN
1	I	459	HIS
1	I	474	HIS
1	I	535	GLN
1	I	536	HIS
1	I	544	ASN
1	J	65	ASN
1	J	77	HIS
1	J	84	GLN
1	J	112	HIS
1	J	158	ASN
1	J	178	GLN
1	J	198	GLN
1	J	205	GLN
1	J	219	ASN

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Mol	Chain	Res	Type
1	J	227	ASN
1	J	289	ASN
1	J	318	HIS
1	J	321	GLN
1	J	365	GLN
1	J	436	ASN
1	J	474	HIS
1	J	535	GLN
1	J	536	HIS
1	J	544	ASN
1	K	65	ASN
1	K	84	GLN
1	K	112	HIS
1	K	143	GLN
1	K	158	ASN
1	K	178	GLN
1	K	198	GLN
1	K	205	GLN
1	K	227	ASN
1	K	289	ASN
1	K	318	HIS
1	K	321	GLN
1	K	365	GLN
1	K	436	ASN
1	K	459	HIS
1	K	474	HIS
1	K	535	GLN
1	K	536	HIS
1	K	544	ASN
1	L	65	ASN
1	L	77	HIS
1	L	84	GLN
1	L	112	HIS
1	L	143	GLN
1	L	158	ASN
1	L	178	GLN
1	L	198	GLN
1	L	205	GLN
1	L	227	ASN
1	L	289	ASN
1	L	318	HIS
1	L	321	GLN

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Mol	Chain	Res	Type
1	L	365	GLN
1	L	436	ASN
1	L	459	HIS
1	L	474	HIS
1	L	535	GLN
1	L	536	HIS
1	L	544	ASN
1	M	65	ASN
1	M	84	GLN
1	M	112	HIS
1	M	143	GLN
1	M	158	ASN
1	M	178	GLN
1	M	205	GLN
1	M	227	ASN
1	M	289	ASN
1	M	318	HIS
1	M	321	GLN
1	M	365	GLN
1	M	436	ASN
1	M	459	HIS
1	M	474	HIS
1	M	535	GLN
1	M	536	HIS
1	M	544	ASN
1	N	65	ASN
1	N	77	HIS
1	N	84	GLN
1	N	112	HIS
1	N	158	ASN
1	N	178	GLN
1	N	205	GLN
1	N	227	ASN
1	N	289	ASN
1	N	318	HIS
1	N	321	GLN
1	N	365	GLN
1	N	436	ASN
1	N	474	HIS
1	N	535	GLN
1	N	536	HIS
1	N	544	ASN

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Mol	Chain	Res	Type
1	O	65	ASN
1	O	77	HIS
1	O	84	GLN
1	O	112	HIS
1	O	158	ASN
1	O	178	GLN
1	O	198	GLN
1	O	205	GLN
1	O	227	ASN
1	O	289	ASN
1	O	318	HIS
1	O	321	GLN
1	O	365	GLN
1	O	427	ASN
1	O	436	ASN
1	O	459	HIS
1	O	474	HIS
1	O	535	GLN
1	O	536	HIS
1	O	544	ASN
1	P	65	ASN
1	P	77	HIS
1	P	84	GLN
1	P	112	HIS
1	P	158	ASN
1	P	178	GLN
1	P	205	GLN
1	P	227	ASN
1	P	289	ASN
1	P	318	HIS
1	P	321	GLN
1	P	365	GLN
1	P	436	ASN
1	P	474	HIS
1	P	535	GLN
1	P	536	HIS
1	P	544	ASN
1	Q	65	ASN
1	Q	77	HIS
1	Q	84	GLN
1	Q	112	HIS
1	Q	158	ASN

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Mol	Chain	Res	Type
1	Q	178	GLN
1	Q	205	GLN
1	Q	219	ASN
1	Q	227	ASN
1	Q	289	ASN
1	Q	318	HIS
1	Q	321	GLN
1	Q	365	GLN
1	Q	427	ASN
1	Q	436	ASN
1	Q	459	HIS
1	Q	474	HIS
1	Q	535	GLN
1	Q	536	HIS
1	Q	544	ASN
1	R	65	ASN
1	R	77	HIS
1	R	84	GLN
1	R	112	HIS
1	R	143	GLN
1	R	158	ASN
1	R	178	GLN
1	R	198	GLN
1	R	205	GLN
1	R	219	ASN
1	R	227	ASN
1	R	289	ASN
1	R	318	HIS
1	R	321	GLN
1	R	365	GLN
1	R	427	ASN
1	R	436	ASN
1	R	459	HIS
1	R	535	GLN
1	R	536	HIS
1	R	544	ASN
1	S	65	ASN
1	S	77	HIS
1	S	84	GLN
1	S	112	HIS
1	S	158	ASN
1	S	178	GLN

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Mol	Chain	Res	Type
1	S	205	GLN
1	S	219	ASN
1	S	227	ASN
1	S	289	ASN
1	S	318	HIS
1	S	321	GLN
1	S	365	GLN
1	S	436	ASN
1	S	459	HIS
1	S	535	GLN
1	S	536	HIS
1	S	544	ASN
1	T	65	ASN
1	T	77	HIS
1	T	84	GLN
1	T	112	HIS
1	T	143	GLN
1	T	158	ASN
1	T	178	GLN
1	T	205	GLN
1	T	227	ASN
1	T	289	ASN
1	T	318	HIS
1	T	321	GLN
1	T	365	GLN
1	T	427	ASN
1	T	436	ASN
1	T	459	HIS
1	T	474	HIS
1	T	535	GLN
1	T	536	HIS
1	T	544	ASN
1	U	65	ASN
1	U	84	GLN
1	U	112	HIS
1	U	158	ASN
1	U	178	GLN
1	U	198	GLN
1	U	205	GLN
1	U	219	ASN
1	U	227	ASN
1	U	289	ASN

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Mol	Chain	Res	Type
1	U	318	HIS
1	U	321	GLN
1	U	365	GLN
1	U	427	ASN
1	U	436	ASN
1	U	459	HIS
1	U	474	HIS
1	U	535	GLN
1	U	536	HIS
1	U	544	ASN
1	V	65	ASN
1	V	84	GLN
1	V	112	HIS
1	V	158	ASN
1	V	178	GLN
1	V	205	GLN
1	V	227	ASN
1	V	289	ASN
1	V	318	HIS
1	V	321	GLN
1	V	365	GLN
1	V	436	ASN
1	V	474	HIS
1	V	535	GLN
1	V	536	HIS
1	V	544	ASN
1	W	65	ASN
1	W	84	GLN
1	W	112	HIS
1	W	158	ASN
1	W	178	GLN
1	W	198	GLN
1	W	205	GLN
1	W	227	ASN
1	W	289	ASN
1	W	318	HIS
1	W	321	GLN
1	W	365	GLN
1	W	436	ASN
1	W	474	HIS
1	W	535	GLN
1	W	536	HIS

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Mol	Chain	Res	Type
1	W	544	ASN
1	X	65	ASN
1	X	77	HIS
1	X	84	GLN
1	X	112	HIS
1	X	158	ASN
1	X	178	GLN
1	X	198	GLN
1	X	205	GLN
1	X	227	ASN
1	X	289	ASN
1	X	318	HIS
1	X	321	GLN
1	X	365	GLN
1	X	436	ASN
1	X	459	HIS
1	X	474	HIS
1	X	535	GLN
1	X	536	HIS
1	X	544	ASN
1	Y	65	ASN
1	Y	77	HIS
1	Y	84	GLN
1	Y	112	HIS
1	Y	158	ASN
1	Y	178	GLN
1	Y	198	GLN
1	Y	205	GLN
1	Y	219	ASN
1	Y	227	ASN
1	Y	289	ASN
1	Y	318	HIS
1	Y	321	GLN
1	Y	365	GLN
1	Y	436	ASN
1	Y	474	HIS
1	Y	535	GLN
1	Y	536	HIS
1	Y	544	ASN
1	Z	65	ASN
1	Z	84	GLN
1	Z	112	HIS

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Mol	Chain	Res	Type
1	Z	158	ASN
1	Z	178	GLN
1	Z	198	GLN
1	Z	205	GLN
1	Z	219	ASN
1	Z	227	ASN
1	Z	289	ASN
1	Z	318	HIS
1	Z	321	GLN
1	Z	365	GLN
1	Z	427	ASN
1	Z	436	ASN
1	Z	459	HIS
1	Z	535	GLN
1	Z	536	HIS
1	Z	544	ASN
1	1	65	ASN
1	1	84	GLN
1	1	112	HIS
1	1	143	GLN
1	1	158	ASN
1	1	178	GLN
1	1	198	GLN
1	1	205	GLN
1	1	227	ASN
1	1	289	ASN
1	1	318	HIS
1	1	321	GLN
1	1	365	GLN
1	1	427	ASN
1	1	436	ASN
1	1	474	HIS
1	1	493	ASN
1	1	535	GLN
1	1	536	HIS
1	1	544	ASN
1	2	65	ASN
1	2	84	GLN
1	2	112	HIS
1	2	143	GLN
1	2	158	ASN
1	2	178	GLN

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Mol	Chain	Res	Type
1	2	205	GLN
1	2	227	ASN
1	2	289	ASN
1	2	318	HIS
1	2	321	GLN
1	2	365	GLN
1	2	427	ASN
1	2	436	ASN
1	2	459	HIS
1	2	474	HIS
1	2	535	GLN
1	2	536	HIS
1	2	544	ASN
1	3	65	ASN
1	3	77	HIS
1	3	84	GLN
1	3	112	HIS
1	3	158	ASN
1	3	178	GLN
1	3	205	GLN
1	3	219	ASN
1	3	227	ASN
1	3	289	ASN
1	3	318	HIS
1	3	321	GLN
1	3	365	GLN
1	3	436	ASN
1	3	459	HIS
1	3	474	HIS
1	3	535	GLN
1	3	536	HIS
1	3	544	ASN
1	4	65	ASN
1	4	84	GLN
1	4	112	HIS
1	4	158	ASN
1	4	178	GLN
1	4	205	GLN
1	4	219	ASN
1	4	227	ASN
1	4	289	ASN
1	4	318	HIS

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Mol	Chain	Res	Type
1	4	321	GLN
1	4	365	GLN
1	4	436	ASN
1	4	474	HIS
1	4	535	GLN
1	4	536	HIS
1	4	544	ASN
1	5	65	ASN
1	5	77	HIS
1	5	84	GLN
1	5	112	HIS
1	5	158	ASN
1	5	178	GLN
1	5	205	GLN
1	5	219	ASN
1	5	227	ASN
1	5	289	ASN
1	5	318	HIS
1	5	321	GLN
1	5	365	GLN
1	5	436	ASN
1	5	474	HIS
1	5	535	GLN
1	5	536	HIS
1	5	544	ASN
1	6	65	ASN
1	6	84	GLN
1	6	112	HIS
1	6	143	GLN
1	6	158	ASN
1	6	178	GLN
1	6	205	GLN
1	6	219	ASN
1	6	227	ASN
1	6	289	ASN
1	6	318	HIS
1	6	321	GLN
1	6	365	GLN
1	6	427	ASN
1	6	436	ASN
1	6	459	HIS
1	6	474	HIS

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Mol	Chain	Res	Type
1	6	535	GLN
1	6	536	HIS
1	6	544	ASN
1	a	65	ASN
1	a	84	GLN
1	a	112	HIS
1	a	158	ASN
1	a	178	GLN
1	a	198	GLN
1	a	205	GLN
1	a	227	ASN
1	a	289	ASN
1	a	318	HIS
1	a	321	GLN
1	a	365	GLN
1	a	436	ASN
1	a	459	HIS
1	a	474	HIS
1	a	535	GLN
1	a	536	HIS
1	a	544	ASN
1	b	65	ASN
1	b	84	GLN
1	b	112	HIS
1	b	158	ASN
1	b	178	GLN
1	b	205	GLN
1	b	227	ASN
1	b	289	ASN
1	b	318	HIS
1	b	321	GLN
1	b	365	GLN
1	b	436	ASN
1	b	459	HIS
1	b	474	HIS
1	b	535	GLN
1	b	536	HIS
1	b	544	ASN
1	c	65	ASN
1	c	77	HIS
1	c	84	GLN
1	c	112	HIS

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Mol	Chain	Res	Type
1	c	158	ASN
1	c	178	GLN
1	c	205	GLN
1	c	227	ASN
1	c	289	ASN
1	c	318	HIS
1	c	321	GLN
1	c	365	GLN
1	c	436	ASN
1	c	474	HIS
1	c	535	GLN
1	c	536	HIS
1	c	544	ASN
1	d	65	ASN
1	d	77	HIS
1	d	84	GLN
1	d	112	HIS
1	d	158	ASN
1	d	178	GLN
1	d	205	GLN
1	d	227	ASN
1	d	289	ASN
1	d	318	HIS
1	d	321	GLN
1	d	365	GLN
1	d	436	ASN
1	d	474	HIS
1	d	535	GLN
1	d	536	HIS
1	d	544	ASN
1	e	65	ASN
1	e	84	GLN
1	e	112	HIS
1	e	158	ASN
1	e	178	GLN
1	e	205	GLN
1	e	227	ASN
1	e	289	ASN
1	e	318	HIS
1	e	321	GLN
1	e	365	GLN
1	e	427	ASN

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Mol	Chain	Res	Type
1	e	436	ASN
1	e	459	HIS
1	e	474	HIS
1	e	535	GLN
1	e	536	HIS
1	e	544	ASN
1	f	65	ASN
1	f	77	HIS
1	f	84	GLN
1	f	112	HIS
1	f	158	ASN
1	f	178	GLN
1	f	205	GLN
1	f	219	ASN
1	f	227	ASN
1	f	289	ASN
1	f	318	HIS
1	f	321	GLN
1	f	365	GLN
1	f	436	ASN
1	f	459	HIS
1	f	474	HIS
1	f	535	GLN
1	f	536	HIS
1	f	544	ASN
1	g	65	ASN
1	g	77	HIS
1	g	84	GLN
1	g	112	HIS
1	g	143	GLN
1	g	158	ASN
1	g	178	GLN
1	g	205	GLN
1	g	227	ASN
1	g	289	ASN
1	g	318	HIS
1	g	321	GLN
1	g	365	GLN
1	g	427	ASN
1	g	436	ASN
1	g	459	HIS
1	g	474	HIS

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Mol	Chain	Res	Type
1	g	535	GLN
1	g	536	HIS
1	g	544	ASN
1	h	65	ASN
1	h	77	HIS
1	h	84	GLN
1	h	112	HIS
1	h	158	ASN
1	h	178	GLN
1	h	205	GLN
1	h	219	ASN
1	h	227	ASN
1	h	289	ASN
1	h	318	HIS
1	h	321	GLN
1	h	365	GLN
1	h	436	ASN
1	h	474	HIS
1	h	535	GLN
1	h	536	HIS
1	h	544	ASN
1	i	65	ASN
1	i	77	HIS
1	i	84	GLN
1	i	112	HIS
1	i	158	ASN
1	i	178	GLN
1	i	198	GLN
1	i	205	GLN
1	i	219	ASN
1	i	227	ASN
1	i	289	ASN
1	i	318	HIS
1	i	321	GLN
1	i	365	GLN
1	i	436	ASN
1	i	459	HIS
1	i	474	HIS
1	i	535	GLN
1	i	536	HIS
1	i	544	ASN
1	j	65	ASN

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Mol	Chain	Res	Type
1	j	84	GLN
1	j	112	HIS
1	j	158	ASN
1	j	178	GLN
1	j	198	GLN
1	j	205	GLN
1	j	219	ASN
1	j	227	ASN
1	j	289	ASN
1	j	318	HIS
1	j	321	GLN
1	j	365	GLN
1	j	436	ASN
1	j	474	HIS
1	j	535	GLN
1	j	536	HIS
1	j	544	ASN
1	k	65	ASN
1	k	77	HIS
1	k	84	GLN
1	k	112	HIS
1	k	143	GLN
1	k	158	ASN
1	k	178	GLN
1	k	198	GLN
1	k	205	GLN
1	k	219	ASN
1	k	227	ASN
1	k	289	ASN
1	k	318	HIS
1	k	321	GLN
1	k	365	GLN
1	k	427	ASN
1	k	436	ASN
1	k	459	HIS
1	k	474	HIS
1	k	535	GLN
1	k	536	HIS
1	k	544	ASN
1	l	65	ASN
1	l	77	HIS
1	l	84	GLN

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Mol	Chain	Res	Type
1	l	112	HIS
1	l	158	ASN
1	l	178	GLN
1	l	205	GLN
1	l	227	ASN
1	l	289	ASN
1	l	318	HIS
1	l	321	GLN
1	l	365	GLN
1	l	436	ASN
1	l	459	HIS
1	l	535	GLN
1	l	536	HIS
1	l	544	ASN
1	m	65	ASN
1	m	84	GLN
1	m	112	HIS
1	m	158	ASN
1	m	178	GLN
1	m	198	GLN
1	m	205	GLN
1	m	219	ASN
1	m	227	ASN
1	m	289	ASN
1	m	318	HIS
1	m	321	GLN
1	m	365	GLN
1	m	427	ASN
1	m	436	ASN
1	m	459	HIS
1	m	474	HIS
1	m	535	GLN
1	m	536	HIS
1	m	544	ASN
1	n	65	ASN
1	n	77	HIS
1	n	84	GLN
1	n	112	HIS
1	n	158	ASN
1	n	178	GLN
1	n	205	GLN
1	n	227	ASN

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Mol	Chain	Res	Type
1	n	289	ASN
1	n	318	HIS
1	n	321	GLN
1	n	365	GLN
1	n	427	ASN
1	n	436	ASN
1	n	459	HIS
1	n	474	HIS
1	n	535	GLN
1	n	536	HIS
1	n	544	ASN
1	o	65	ASN
1	o	84	GLN
1	o	112	HIS
1	o	158	ASN
1	o	178	GLN
1	o	205	GLN
1	o	227	ASN
1	o	289	ASN
1	o	318	HIS
1	o	321	GLN
1	o	365	GLN
1	o	427	ASN
1	o	436	ASN
1	o	474	HIS
1	o	535	GLN
1	o	536	HIS
1	o	544	ASN
1	p	65	ASN
1	p	84	GLN
1	p	112	HIS
1	p	158	ASN
1	p	178	GLN
1	p	205	GLN
1	p	219	ASN
1	p	227	ASN
1	p	289	ASN
1	p	318	HIS
1	p	321	GLN
1	p	365	GLN
1	p	436	ASN
1	p	474	HIS

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Mol	Chain	Res	Type
1	p	535	GLN
1	p	536	HIS
1	p	544	ASN
1	q	65	ASN
1	q	84	GLN
1	q	112	HIS
1	q	143	GLN
1	q	158	ASN
1	q	178	GLN
1	q	198	GLN
1	q	205	GLN
1	q	219	ASN
1	q	227	ASN
1	q	289	ASN
1	q	318	HIS
1	q	321	GLN
1	q	348	ASN
1	q	365	GLN
1	q	427	ASN
1	q	436	ASN
1	q	459	HIS
1	q	535	GLN
1	q	536	HIS
1	q	544	ASN
1	r	65	ASN
1	r	77	HIS
1	r	84	GLN
1	r	112	HIS
1	r	143	GLN
1	r	158	ASN
1	r	178	GLN
1	r	205	GLN
1	r	219	ASN
1	r	227	ASN
1	r	318	HIS
1	r	321	GLN
1	r	365	GLN
1	r	436	ASN
1	r	459	HIS
1	r	474	HIS
1	r	535	GLN
1	r	536	HIS

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Mol	Chain	Res	Type
1	r	544	ASN
1	s	65	ASN
1	s	77	HIS
1	s	84	GLN
1	s	112	HIS
1	s	158	ASN
1	s	178	GLN
1	s	198	GLN
1	s	205	GLN
1	s	219	ASN
1	s	227	ASN
1	s	289	ASN
1	s	318	HIS
1	s	321	GLN
1	s	365	GLN
1	s	427	ASN
1	s	436	ASN
1	s	459	HIS
1	s	474	HIS
1	s	535	GLN
1	s	536	HIS
1	s	544	ASN
1	t	65	ASN
1	t	77	HIS
1	t	84	GLN
1	t	112	HIS
1	t	143	GLN
1	t	158	ASN
1	t	178	GLN
1	t	198	GLN
1	t	205	GLN
1	t	227	ASN
1	t	289	ASN
1	t	318	HIS
1	t	321	GLN
1	t	365	GLN
1	t	436	ASN
1	t	459	HIS
1	t	474	HIS
1	t	535	GLN
1	t	536	HIS
1	t	544	ASN

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Mol	Chain	Res	Type
1	u	65	ASN
1	u	77	HIS
1	u	84	GLN
1	u	112	HIS
1	u	158	ASN
1	u	178	GLN
1	u	205	GLN
1	u	227	ASN
1	u	289	ASN
1	u	318	HIS
1	u	321	GLN
1	u	365	GLN
1	u	427	ASN
1	u	436	ASN
1	u	459	HIS
1	u	474	HIS
1	u	535	GLN
1	u	536	HIS
1	u	544	ASN
1	v	65	ASN
1	v	77	HIS
1	v	84	GLN
1	v	112	HIS
1	v	143	GLN
1	v	158	ASN
1	v	178	GLN
1	v	198	GLN
1	v	205	GLN
1	v	227	ASN
1	v	289	ASN
1	v	318	HIS
1	v	321	GLN
1	v	365	GLN
1	v	436	ASN
1	v	474	HIS
1	v	535	GLN
1	v	536	HIS
1	v	544	ASN
1	w	65	ASN
1	w	77	HIS
1	w	84	GLN
1	w	112	HIS

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Mol	Chain	Res	Type
1	w	143	GLN
1	w	158	ASN
1	w	178	GLN
1	w	198	GLN
1	w	205	GLN
1	w	227	ASN
1	w	289	ASN
1	w	318	HIS
1	w	321	GLN
1	w	365	GLN
1	w	427	ASN
1	w	436	ASN
1	w	474	HIS
1	w	535	GLN
1	w	536	HIS
1	w	544	ASN
1	x	65	ASN
1	x	84	GLN
1	x	112	HIS
1	x	143	GLN
1	x	158	ASN
1	x	178	GLN
1	x	198	GLN
1	x	205	GLN
1	x	227	ASN
1	x	289	ASN
1	x	318	HIS
1	x	321	GLN
1	x	365	GLN
1	x	436	ASN
1	x	459	HIS
1	x	474	HIS
1	x	535	GLN
1	x	536	HIS
1	x	544	ASN
1	y	65	ASN
1	y	77	HIS
1	y	84	GLN
1	y	112	HIS
1	y	158	ASN
1	y	178	GLN
1	y	205	GLN

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Mol	Chain	Res	Type
1	y	219	ASN
1	y	227	ASN
1	y	289	ASN
1	y	318	HIS
1	y	321	GLN
1	y	365	GLN
1	y	436	ASN
1	y	474	HIS
1	y	535	GLN
1	y	536	HIS
1	y	544	ASN
1	z	65	ASN
1	z	84	GLN
1	z	112	HIS
1	z	158	ASN
1	z	178	GLN
1	z	198	GLN
1	z	205	GLN
1	z	227	ASN
1	z	289	ASN
1	z	318	HIS
1	z	321	GLN
1	z	365	GLN
1	z	436	ASN
1	z	474	HIS
1	z	535	GLN
1	z	536	HIS
1	z	544	ASN
1	7	65	ASN
1	7	77	HIS
1	7	84	GLN
1	7	112	HIS
1	7	158	ASN
1	7	178	GLN
1	7	198	GLN
1	7	205	GLN
1	7	219	ASN
1	7	227	ASN
1	7	289	ASN
1	7	318	HIS
1	7	321	GLN
1	7	365	GLN

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Mol	Chain	Res	Type
1	7	436	ASN
1	7	474	HIS
1	7	535	GLN
1	7	536	HIS
1	7	544	ASN
1	8	65	ASN
1	8	84	GLN
1	8	112	HIS
1	8	158	ASN
1	8	178	GLN
1	8	198	GLN
1	8	205	GLN
1	8	219	ASN
1	8	227	ASN
1	8	289	ASN
1	8	318	HIS
1	8	321	GLN
1	8	365	GLN
1	8	427	ASN
1	8	436	ASN
1	8	459	HIS
1	8	535	GLN
1	8	536	HIS
1	8	544	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

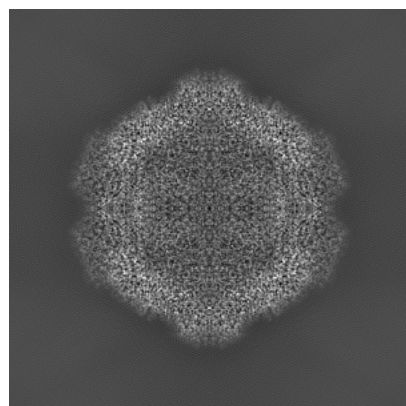
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-41615. These allow visual inspection of the internal detail of the map and identification of artifacts.

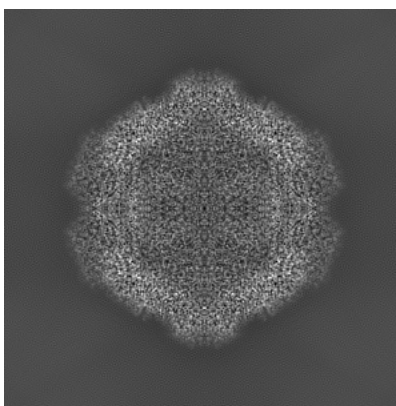
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

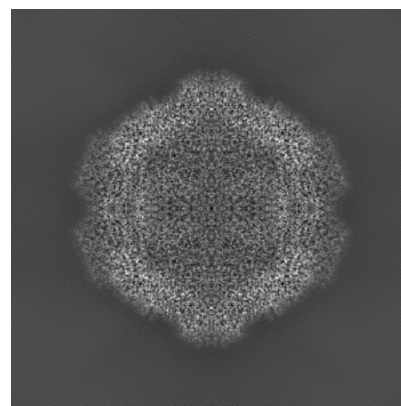
6.1.1 Primary map



X

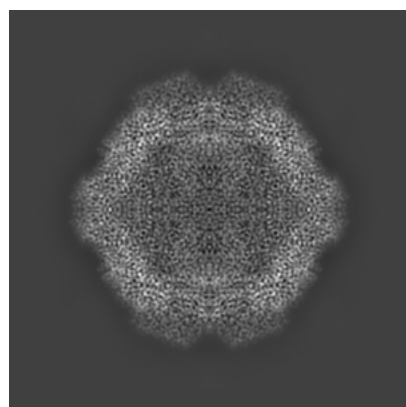


Y

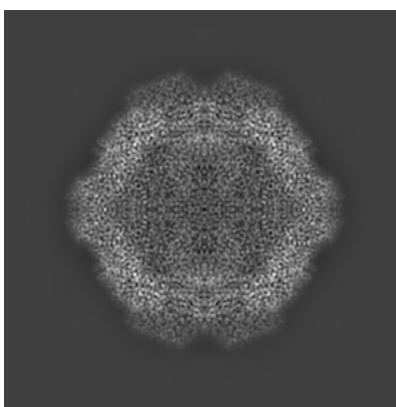


Z

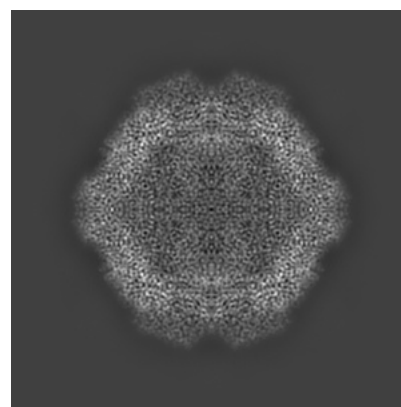
6.1.2 Raw map



X



Y

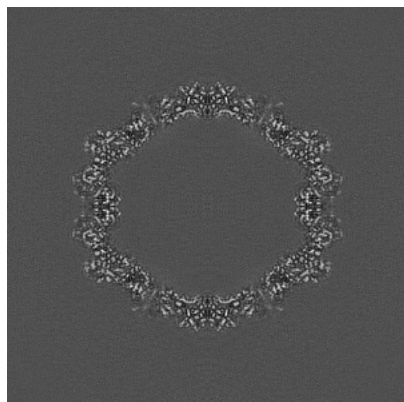


Z

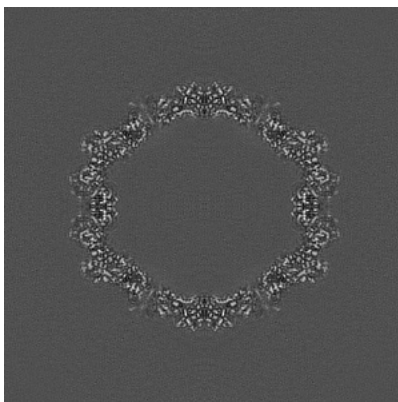
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

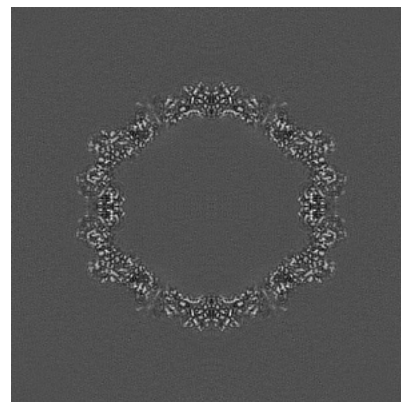
6.2.1 Primary map



X Index: 210



Y Index: 210



Z Index: 210

6.2.2 Raw map



X Index: 210



Y Index: 210

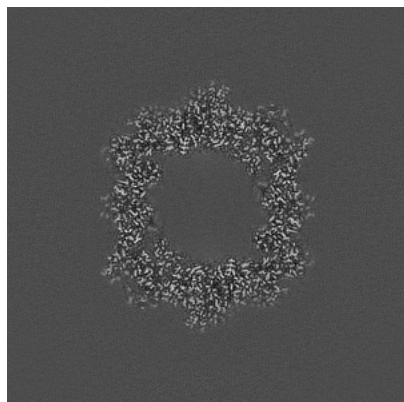


Z Index: 210

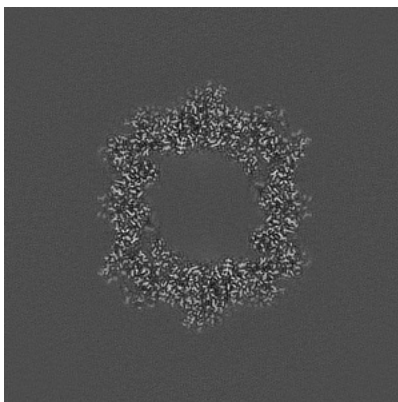
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

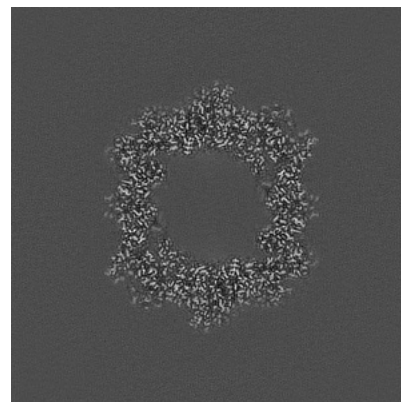
6.3.1 Primary map



X Index: 283

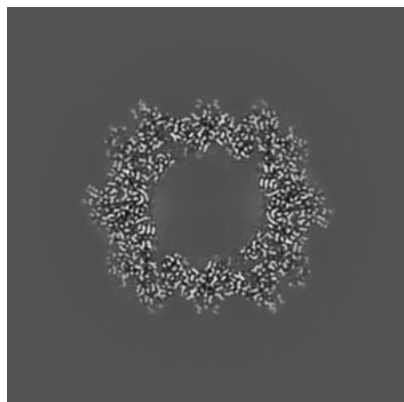


Y Index: 283

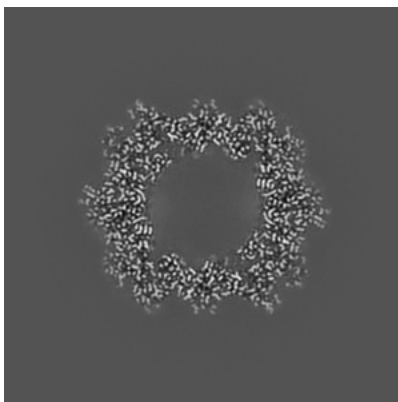


Z Index: 283

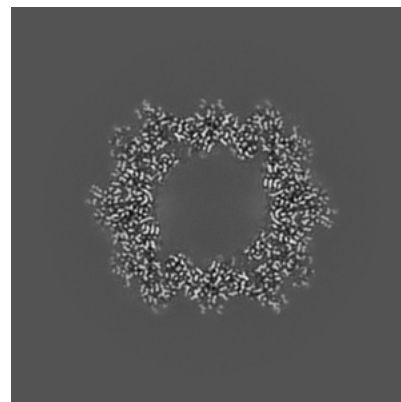
6.3.2 Raw map



X Index: 137



Y Index: 137

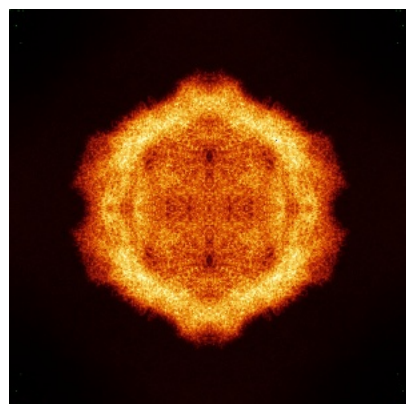


Z Index: 137

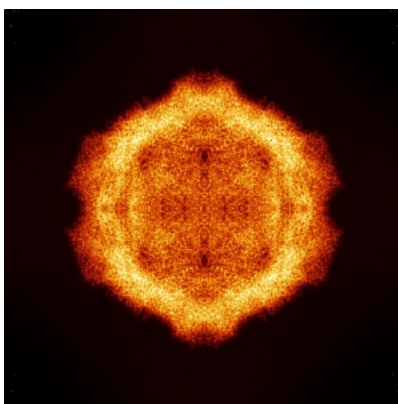
The images above show the largest variance slices of the map in three orthogonal directions.

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

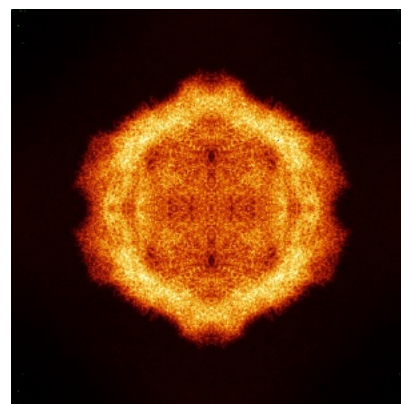
6.4.1 Primary map



X

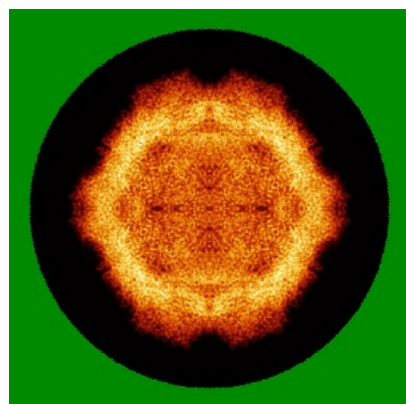


Y

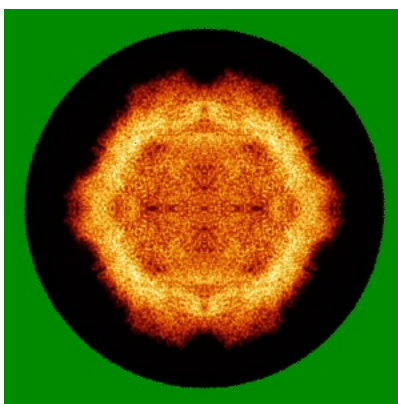


Z

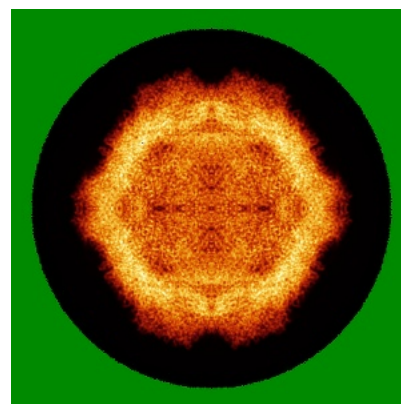
6.4.2 Raw map



X



Y

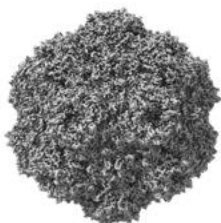


Z

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](#)

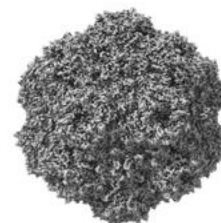
6.5.1 Primary map



X



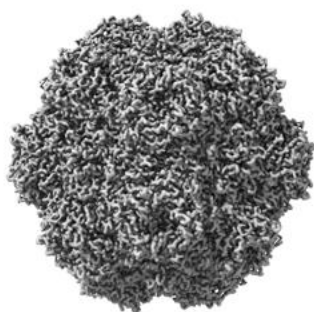
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

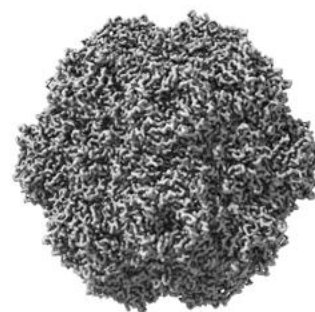
6.5.2 Raw map



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.

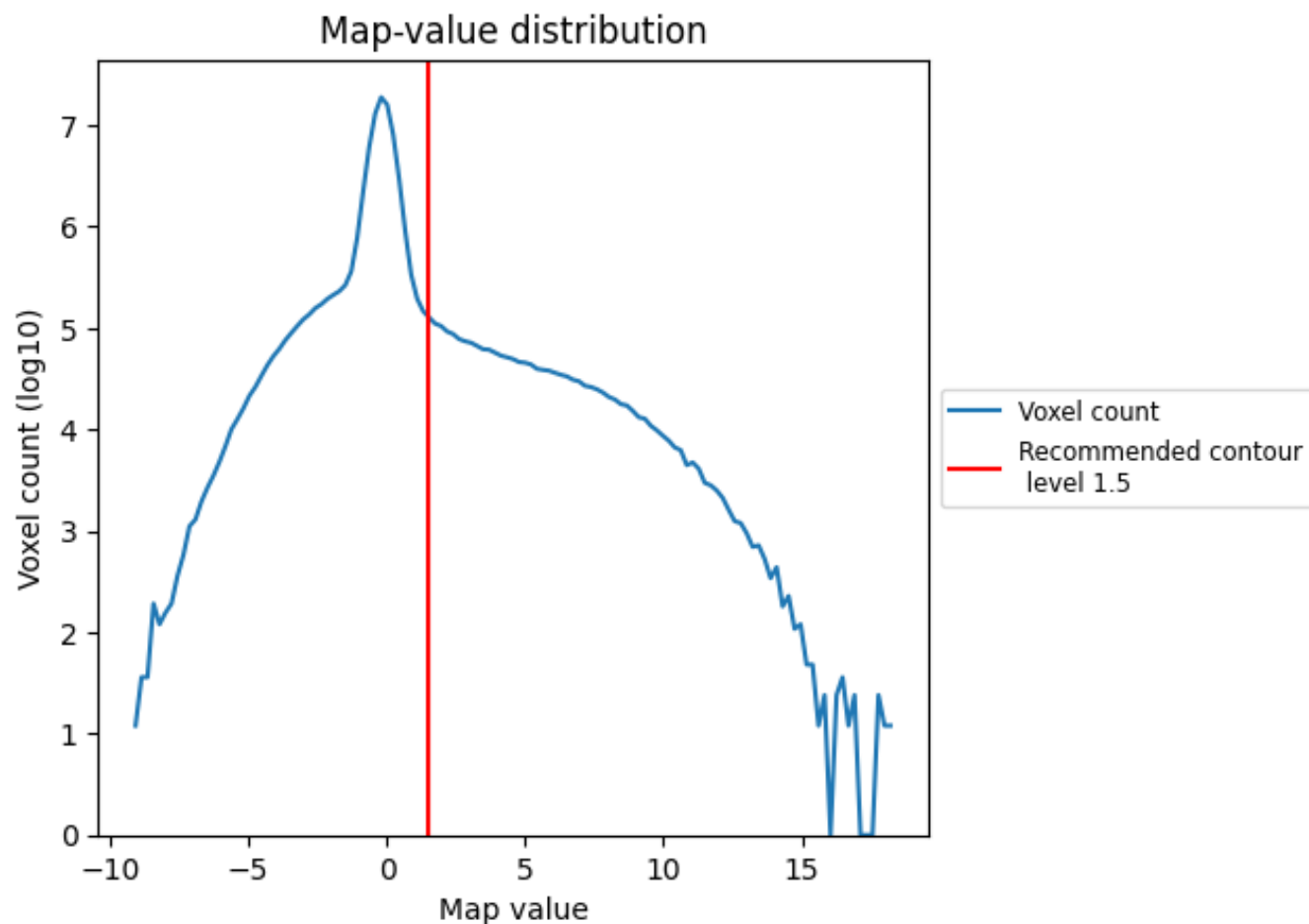
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

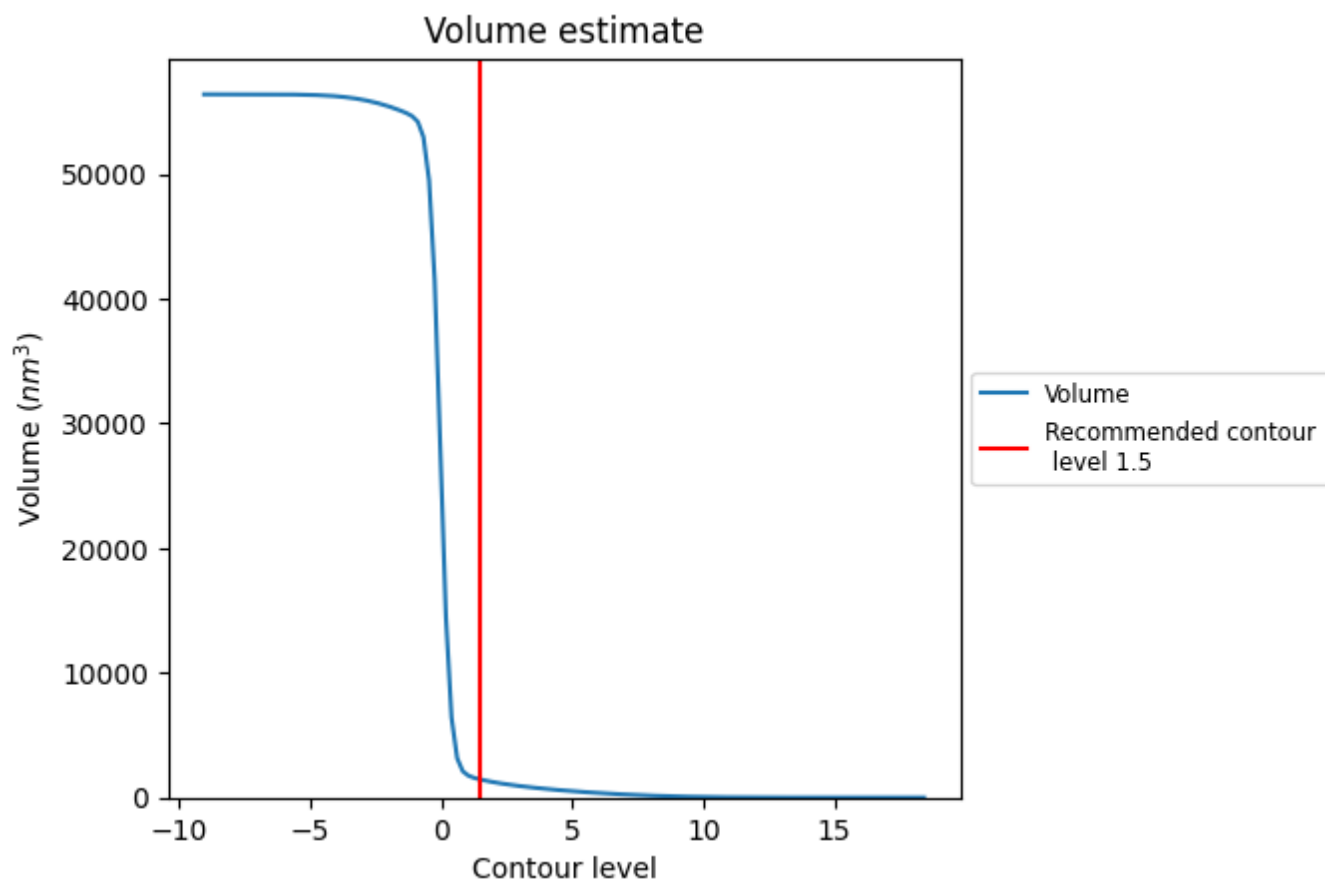
This section contains the results of statistical analysis of the map.

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.

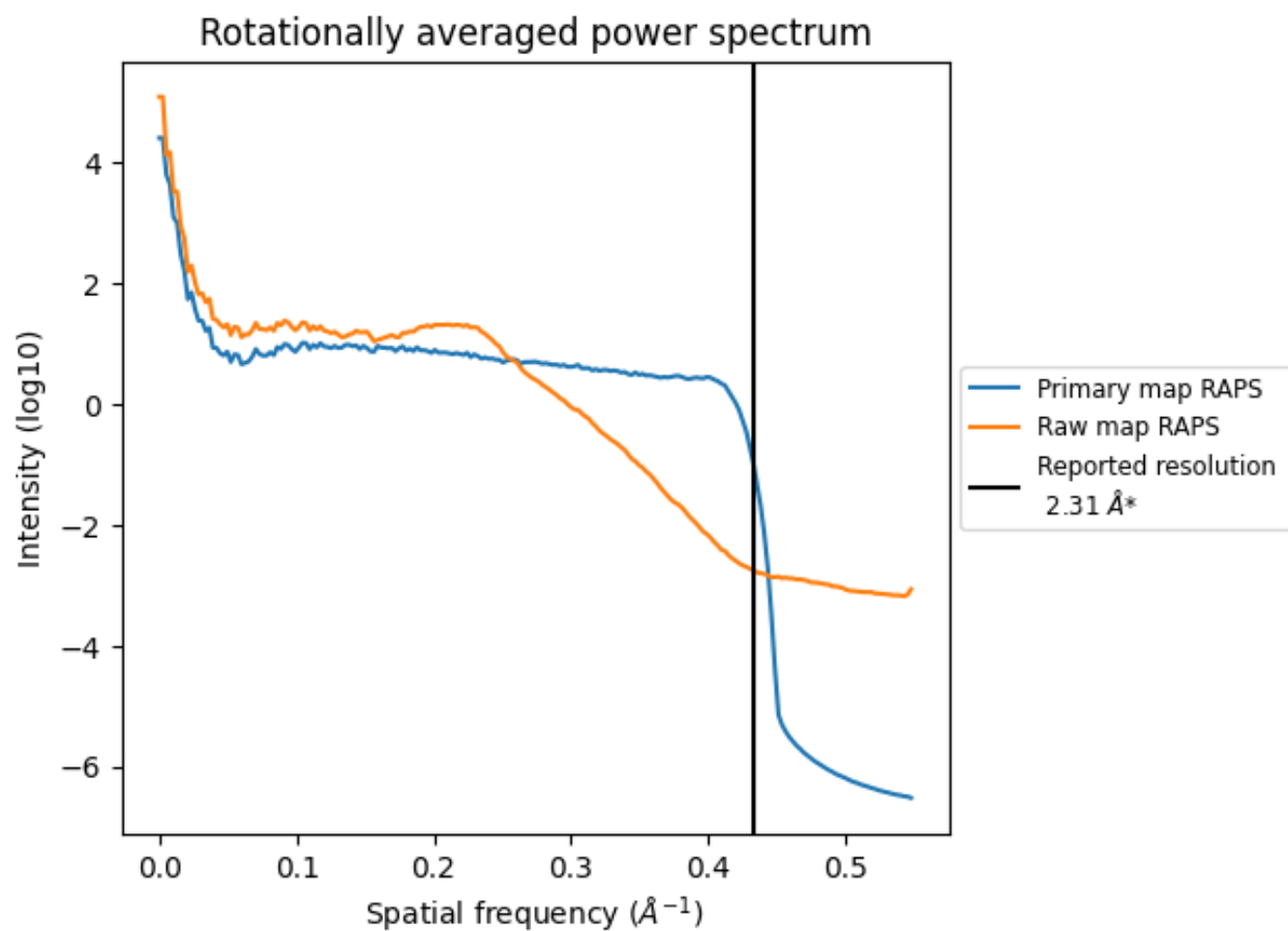
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1442 nm^3 ; this corresponds to an approximate mass of 1303 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 ⓘ

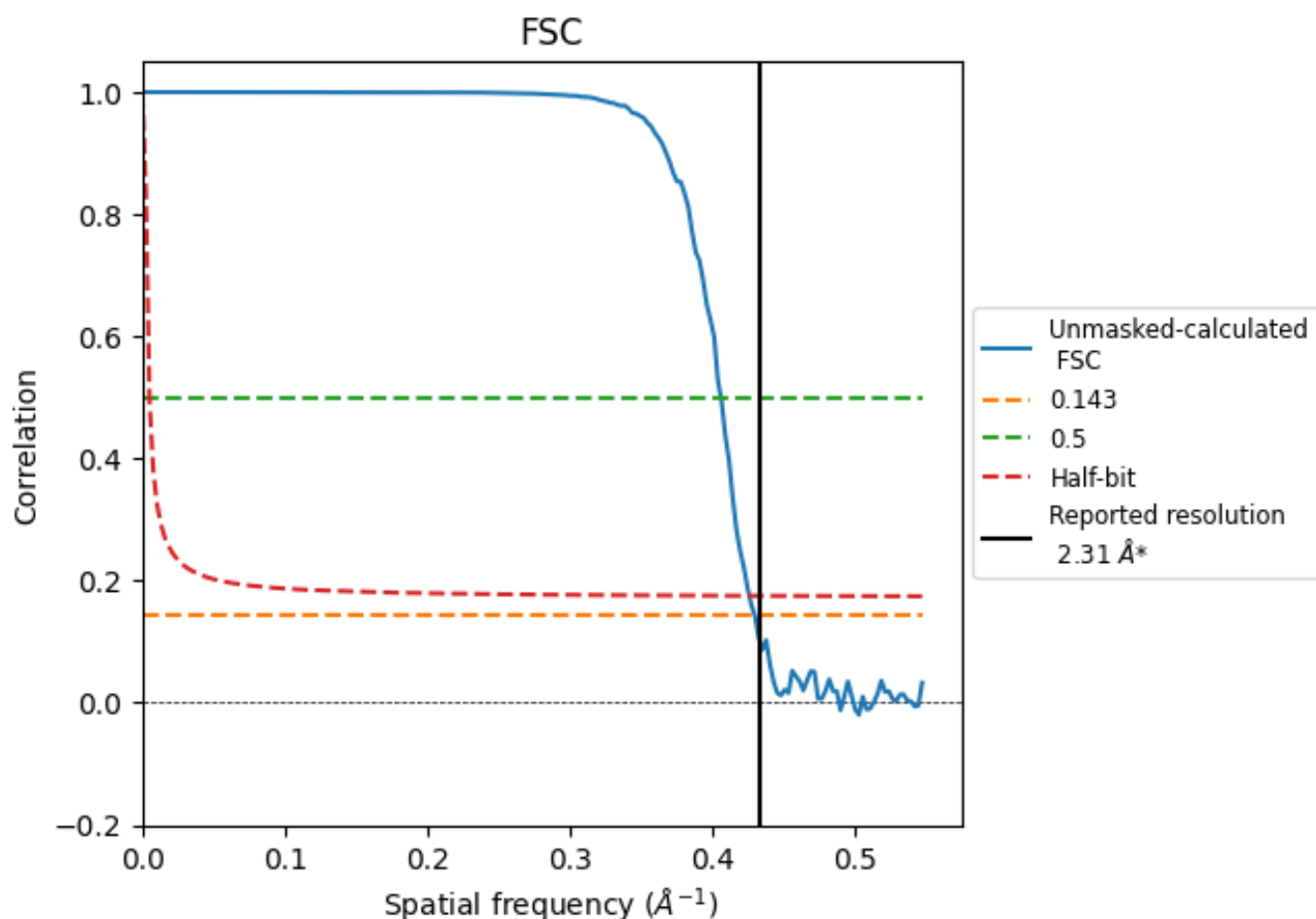


*Reported resolution corresponds to spatial frequency of 0.433 Å⁻¹

8 Fourier-Shell correlation [i](#)

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

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.433 \AA^{-1}

8.2 Resolution estimates [i](#)

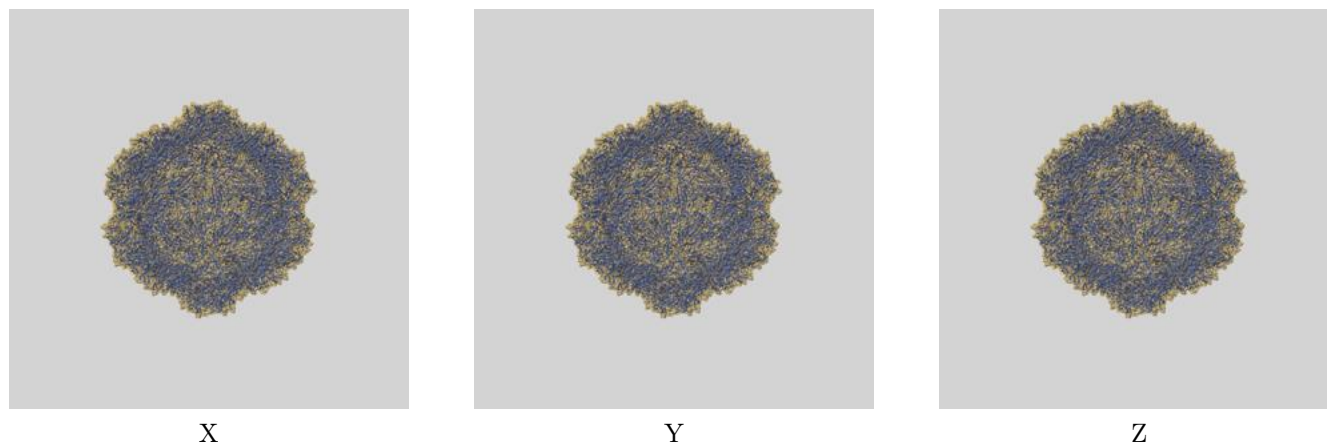
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.31	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.33	2.46	2.35

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

9 Map-model fit [i](#)

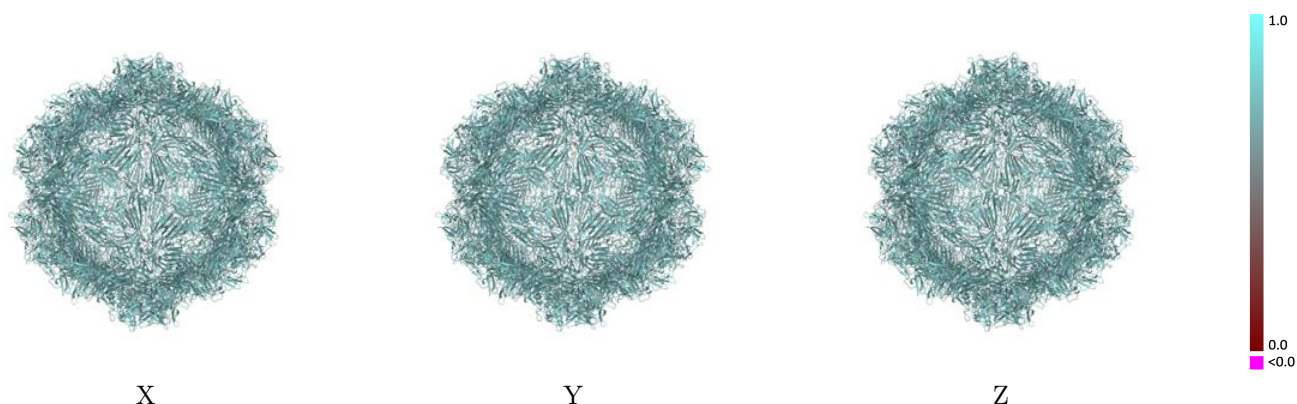
This section contains information regarding the fit between EMDB map EMD-41615 and PDB model 8TU1. Per-residue inclusion information can be found in [section 3](#) on [page 10](#).

9.1 Map-model overlay [i](#)



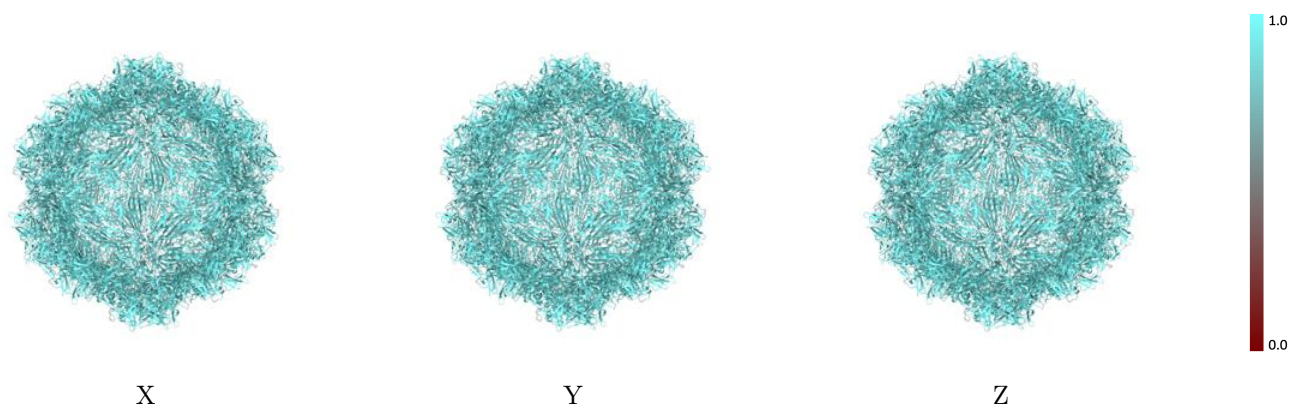
The images above show the 3D surface view of the map at the recommended contour level 1.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



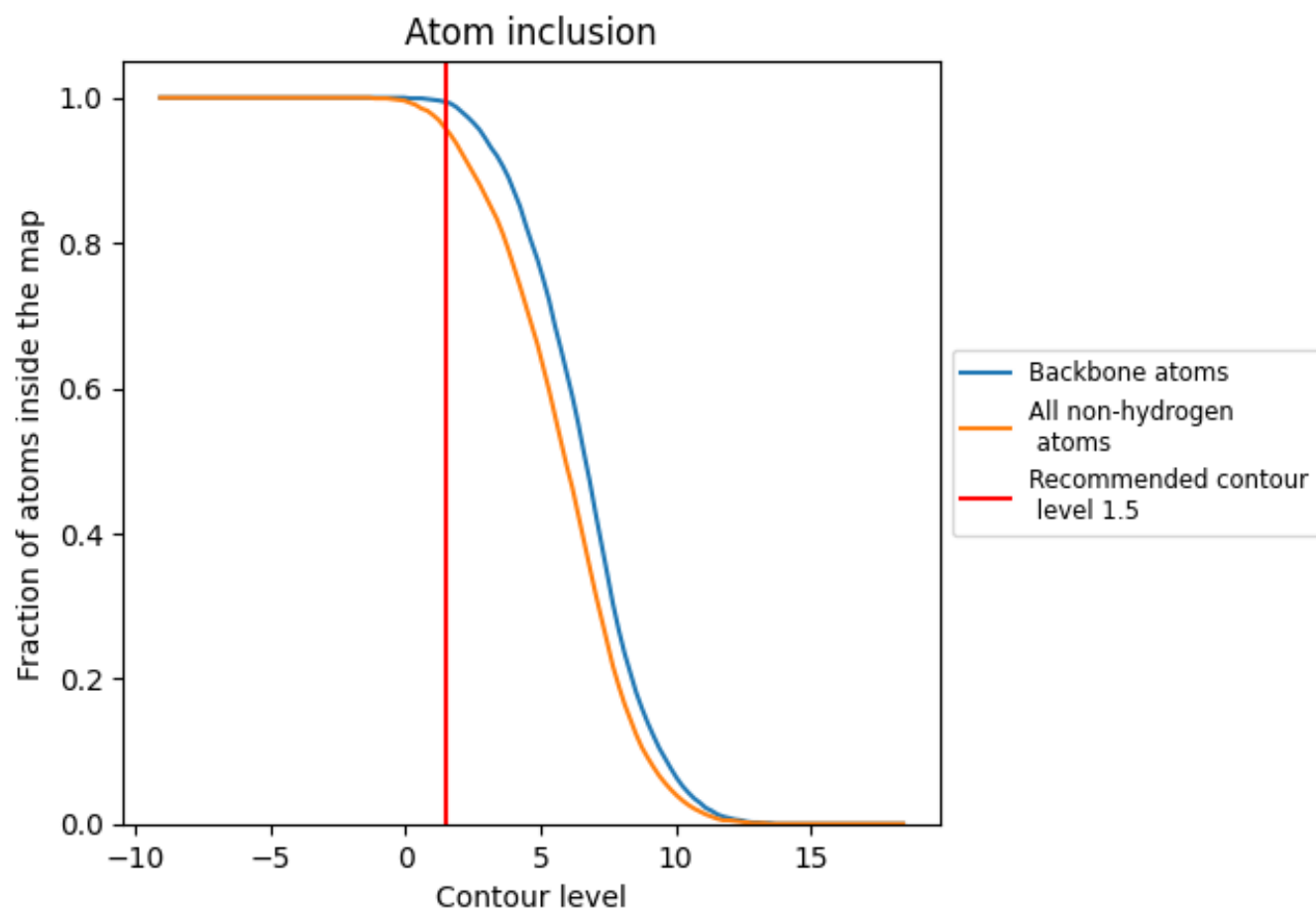
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1.5).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 99% of all backbone atoms, 96% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ





















































The table lists the average atom inclusion at the recommended contour level (1.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9570	 0.7030
1	 0.9550	 0.7020
2	 0.9550	 0.7020
3	 0.9550	 0.7030
4	 0.9550	 0.7020
5	 0.9550	 0.7030
6	 0.9550	 0.7020
7	 0.9580	 0.7030
8	 0.9570	 0.7030
A	 0.9550	 0.7020
B	 0.9590	 0.7030
C	 0.9580	 0.7030
D	 0.9580	 0.7020
E	 0.9570	 0.7020
F	 0.9550	 0.7030
G	 0.9570	 0.7030
H	 0.9580	 0.7030
I	 0.9580	 0.7020
J	 0.9600	 0.7030
K	 0.9580	 0.7020
L	 0.9590	 0.7030
M	 0.9570	 0.7030
N	 0.9580	 0.7040
O	 0.9570	 0.7030
P	 0.9580	 0.7030
Q	 0.9580	 0.7030
R	 0.9590	 0.7040
S	 0.9590	 0.7030
T	 0.9580	 0.7030
U	 0.9590	 0.7030
V	 0.9580	 0.7020
W	 0.9580	 0.7030
X	 0.9570	 0.7030
Y	 0.9580	 0.7030
Z	 0.9570	 0.7030



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Chain	Atom inclusion	Q-score
a	 0.9580	 0.7020
b	 0.9570	 0.7030
c	 0.9580	 0.7030
d	 0.9580	 0.7030
e	 0.9580	 0.7030
f	 0.9570	 0.7030
g	 0.9580	 0.7020
h	 0.9550	 0.7020
i	 0.9570	 0.7030
j	 0.9580	 0.7030
k	 0.9590	 0.7030
l	 0.9590	 0.7030
m	 0.9590	 0.7030
n	 0.9570	 0.7030
o	 0.9580	 0.7030
p	 0.9550	 0.7030
q	 0.9570	 0.7030
r	 0.9580	 0.7020
s	 0.9550	 0.7010
t	 0.9590	 0.7020
u	 0.9590	 0.7030
v	 0.9590	 0.7030
w	 0.9550	 0.7020
x	 0.9580	 0.7030
y	 0.9580	 0.7020
z	 0.9580	 0.7020