



Full wwPDB EM Validation Report ⓘ

May 25, 2025 – 04:36 PM EDT

PDB ID : 7L0W / pdb_00007l0w
EMDB ID : EMD-23106
Title : Human Bocavirus 1 (pH 5.5)
Authors : Luo, M.; Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2020-12-13
Resolution : 2.74 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

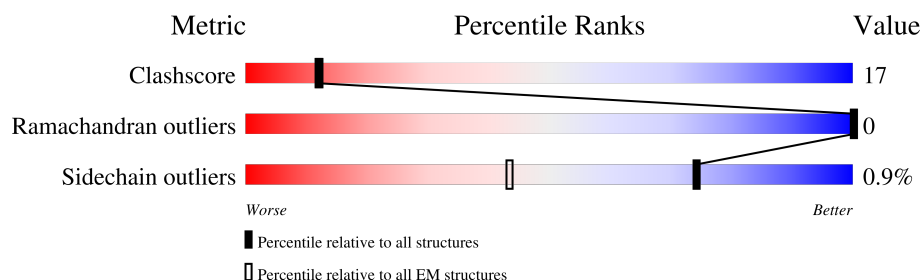
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.74 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.



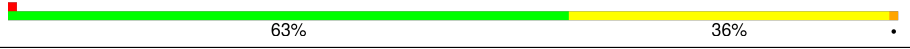
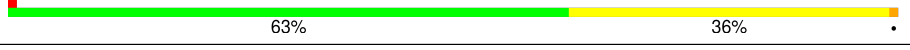
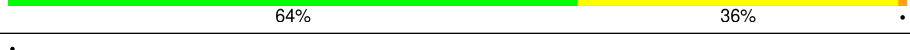
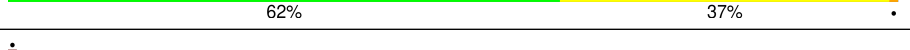
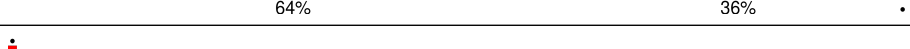
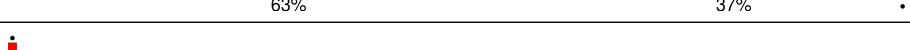
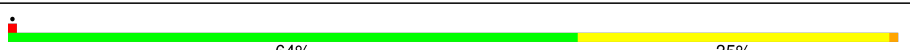
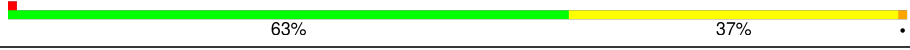
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	510	
1	2	510	
1	3	510	
1	4	510	
1	5	510	
1	6	510	
1	7	510	
1	8	510	

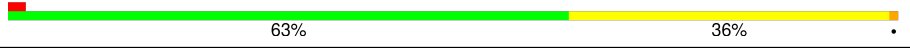
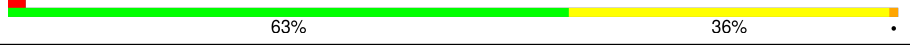
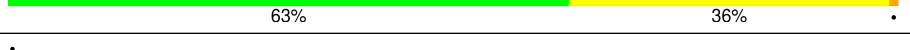
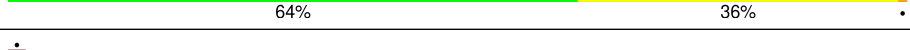
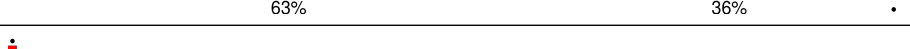
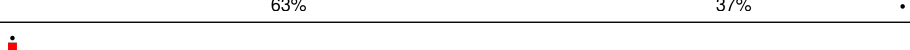
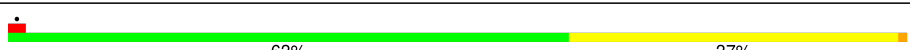
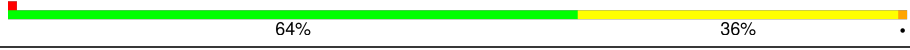
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Mol	Chain	Length	Quality of chain
1	A	510	 63% 37%
1	B	510	 63% 36%
1	C	510	 63% 36%
1	D	510	 63% 36%
1	E	510	 63% 37%
1	F	510	 63% 36%
1	G	510	 64% 36%
1	H	510	 62% 37%
1	I	510	 64% 36%
1	J	510	 63% 37%
1	K	510	 62% 37%
1	L	510	 63% 36%
1	M	510	 63% 36%
1	N	510	 62% 37%
1	O	510	 62% 38%
1	P	510	 64% 35%
1	Q	510	 63% 36%
1	R	510	 62% 37%
1	S	510	 63% 36%
1	T	510	 63% 37%
1	U	510	 63% 36%
1	V	510	 63% 37%
1	W	510	 63% 37%
1	X	510	 63% 36%
1	Y	510	 63% 36%

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Mol	Chain	Length	Quality of chain
1	Z	510	 63% 37%
1	a	510	 62% 37%
1	b	510	 63% 36%
1	c	510	 63% 36%
1	d	510	 63% 36%
1	e	510	 63% 36%
1	f	510	 63% 36%
1	g	510	 64% 36%
1	h	510	 63% 36%
1	i	510	 63% 37%
1	j	510	 64% 36%
1	k	510	 63% 37%
1	l	510	 62% 37%
1	m	510	 63% 37%
1	n	510	 63% 36%
1	o	510	 63% 37%
1	p	510	 62% 37%
1	q	510	 62% 37%
1	r	510	 63% 36%
1	s	510	 63% 37%
1	t	510	 63% 36%
1	u	510	 64% 36%
1	v	510	 62% 37%
1	w	510	 63% 36%
1	x	510	 63% 36%

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Mol	Chain	Length	Quality of chain
1	y	510	
1	z	510	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 242760 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	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	B	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	C	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	D	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	E	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	F	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	G	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	H	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	I	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	J	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	K	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	L	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	M	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	N	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	O	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	P	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		
1	Q	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	S	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	T	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	U	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	V	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	W	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	X	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	Y	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	Z	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	a	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	b	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	c	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	d	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	e	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	f	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	g	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	h	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	i	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	j	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	k	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	l	510	Total 4046	C 2562	N 693	O 768	S 23	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	n	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	o	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	p	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	q	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	r	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	s	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	t	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	u	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	v	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	w	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	x	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	y	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	z	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	1	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	2	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	3	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	4	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	5	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	6	510	Total 4046	C 2562	N 693	O 768	S 23	0	0
1	7	510	Total 4046	C 2562	N 693	O 768	S 23	0	0

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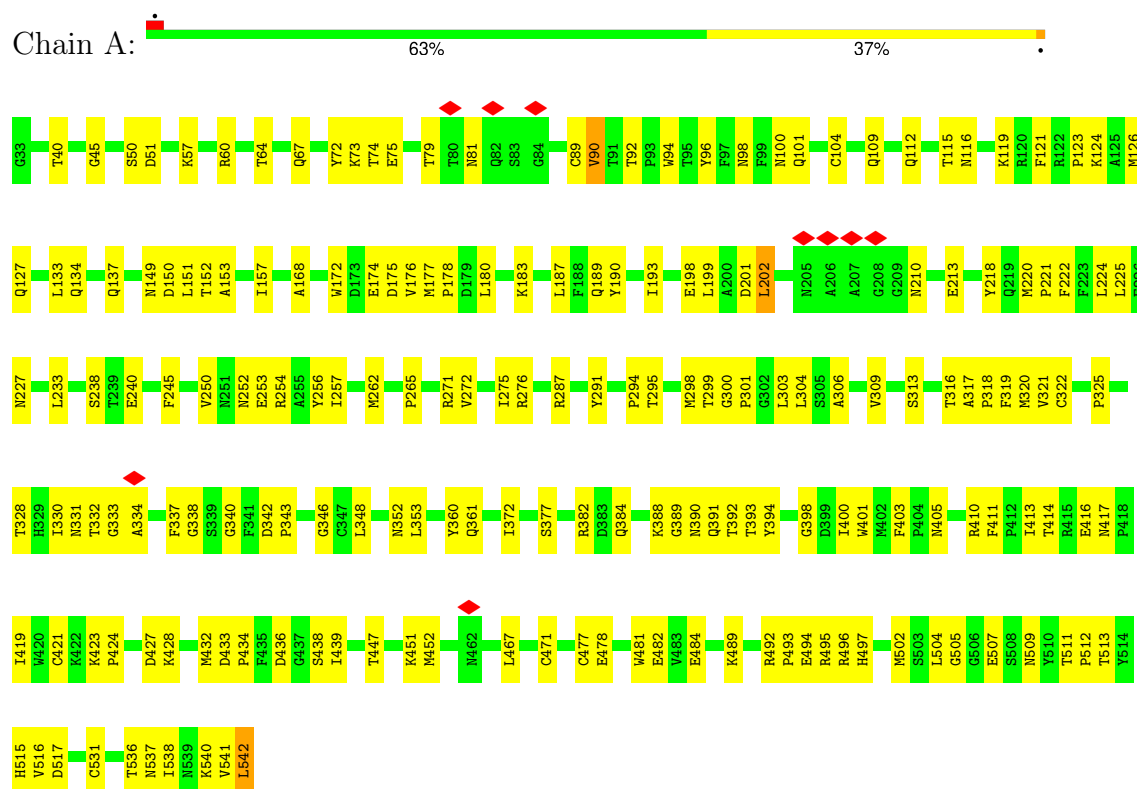
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	510	Total	C	N	O	S	0	0
			4046	2562	693	768	23		

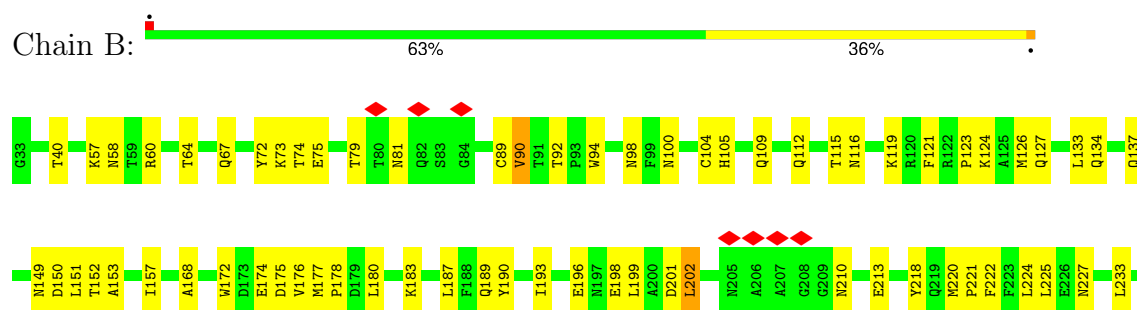
3 Residue-property plots

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

• Molecule 1: VP2

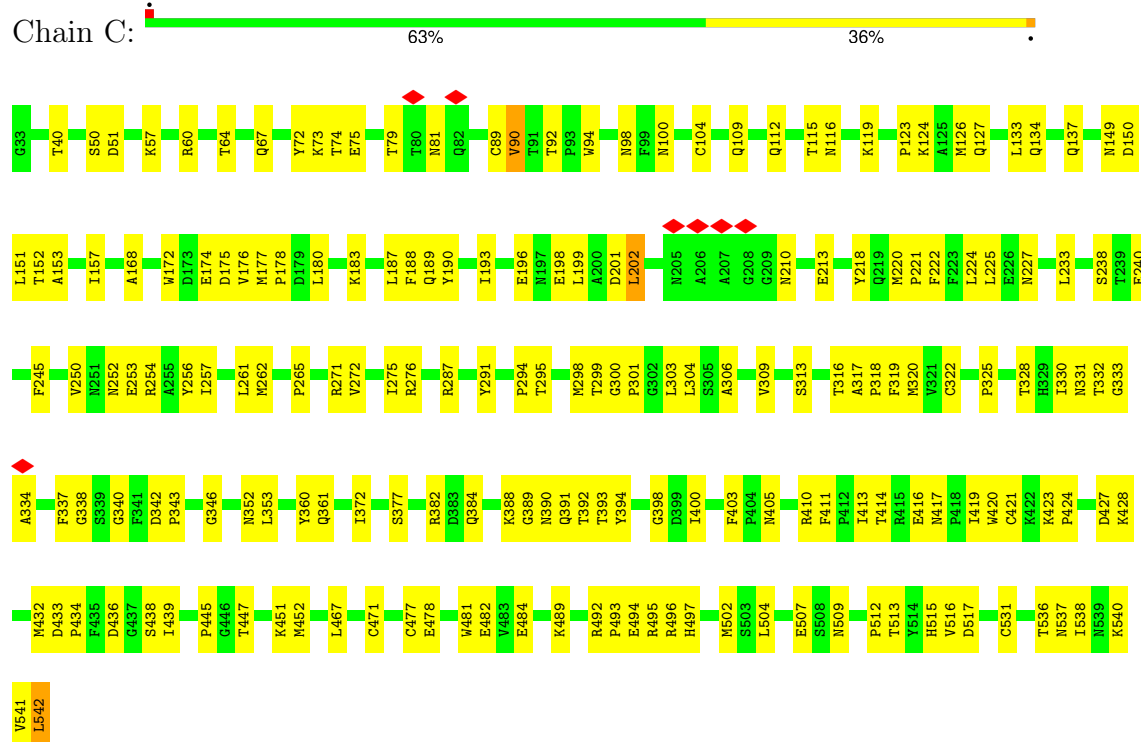


• Molecule 1: VP2

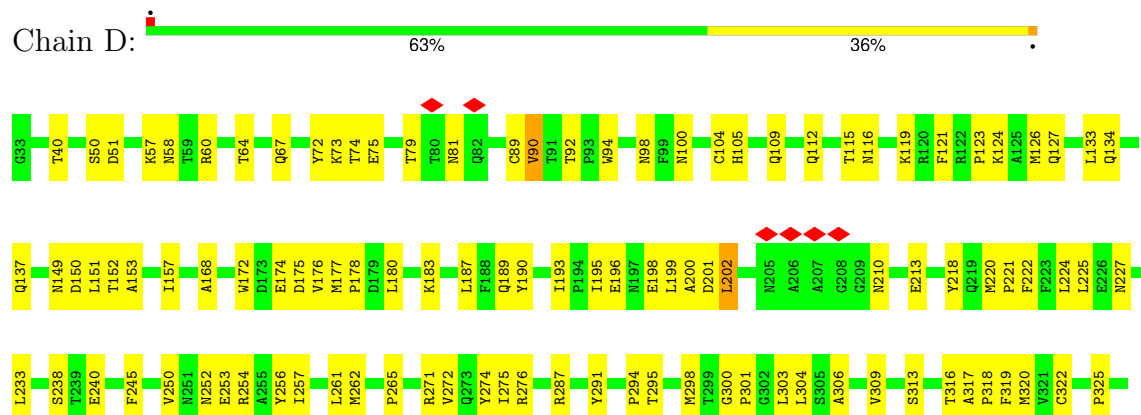


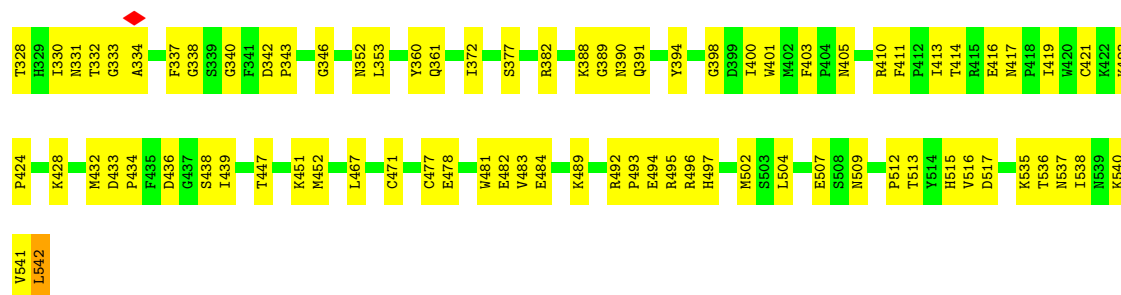


• Molecule 1: VP2

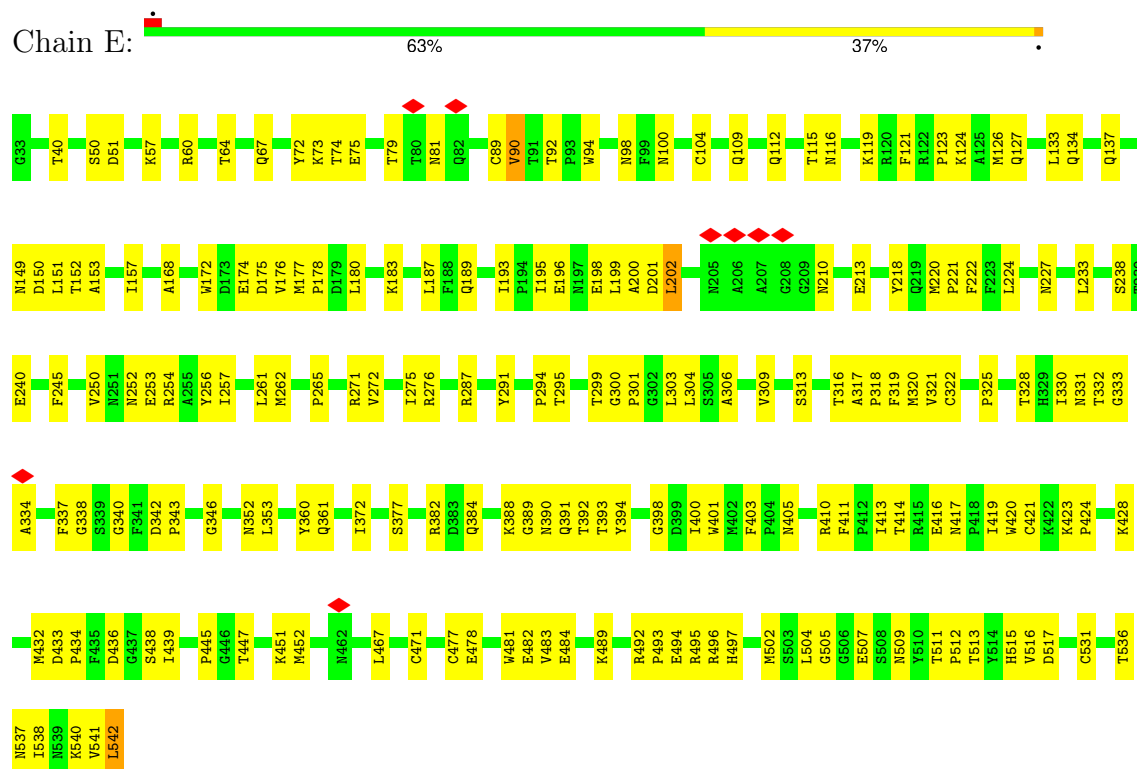


• Molecule 1: VP2

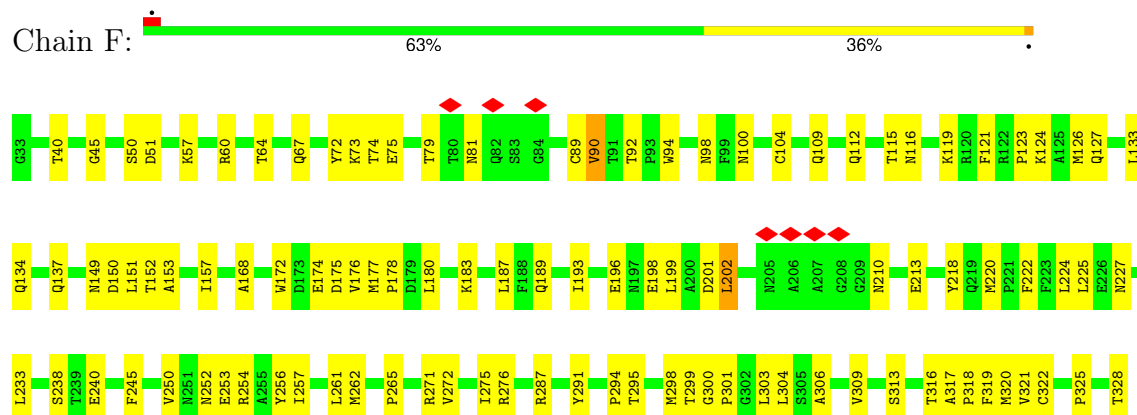


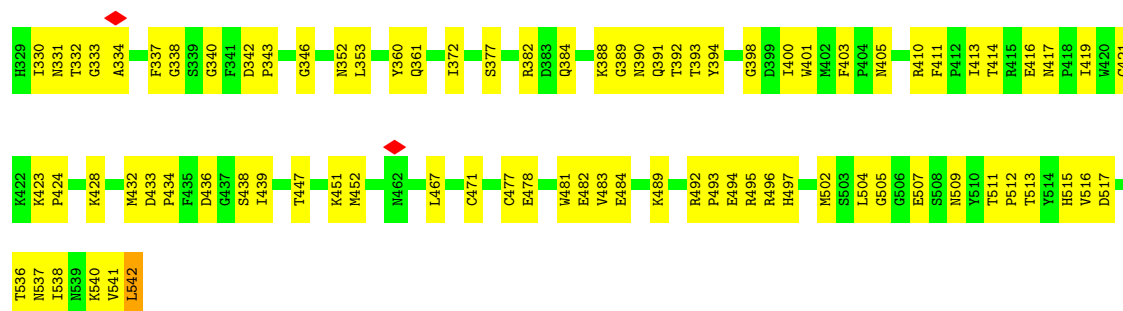


• Molecule 1: VP2

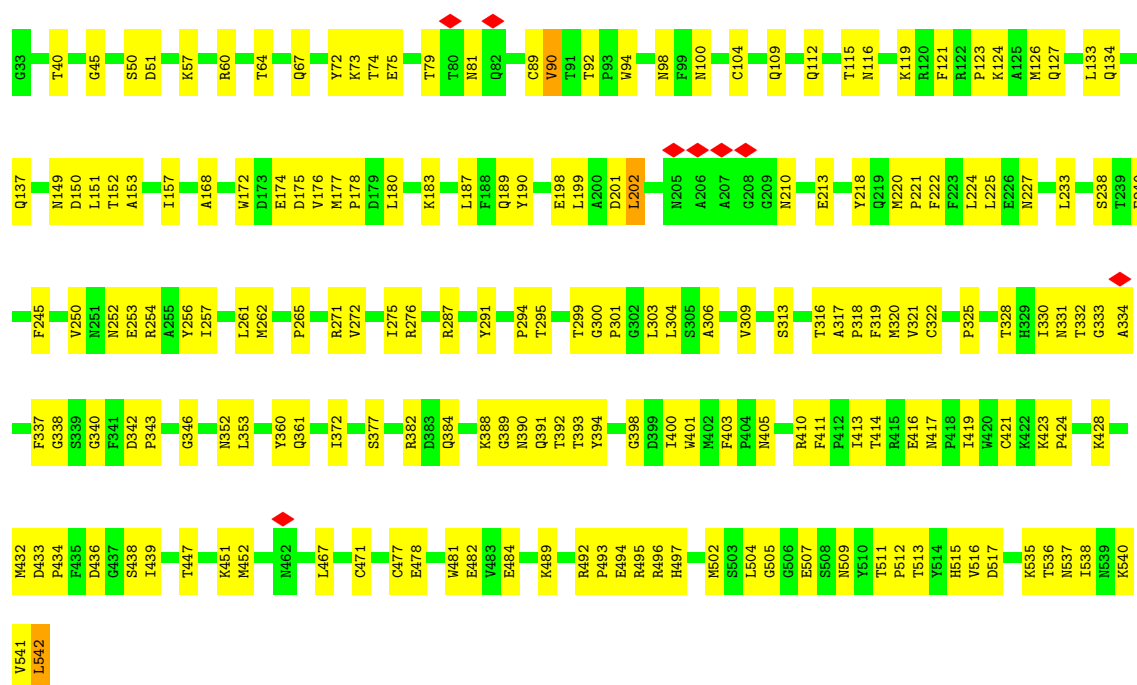


• Molecule 1: VP2

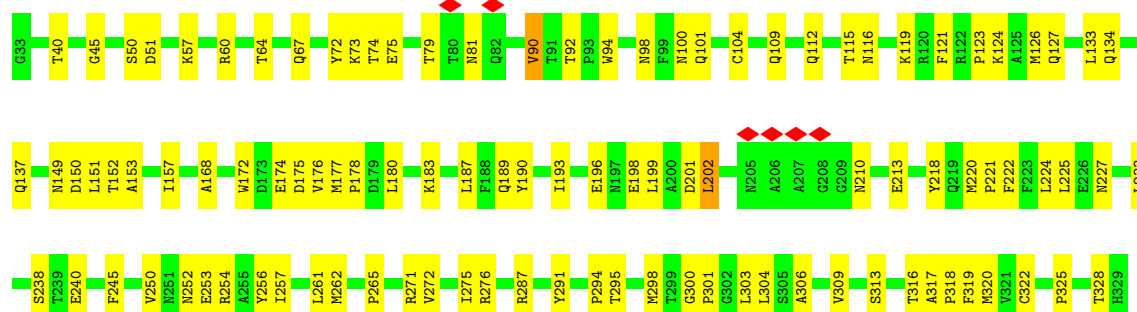


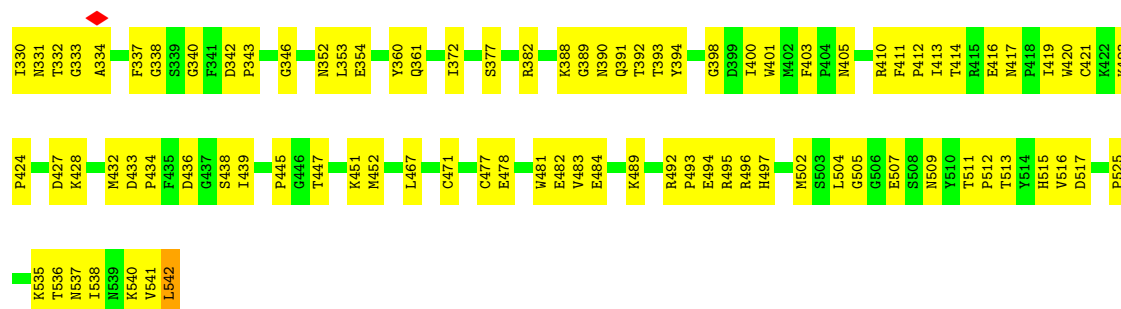


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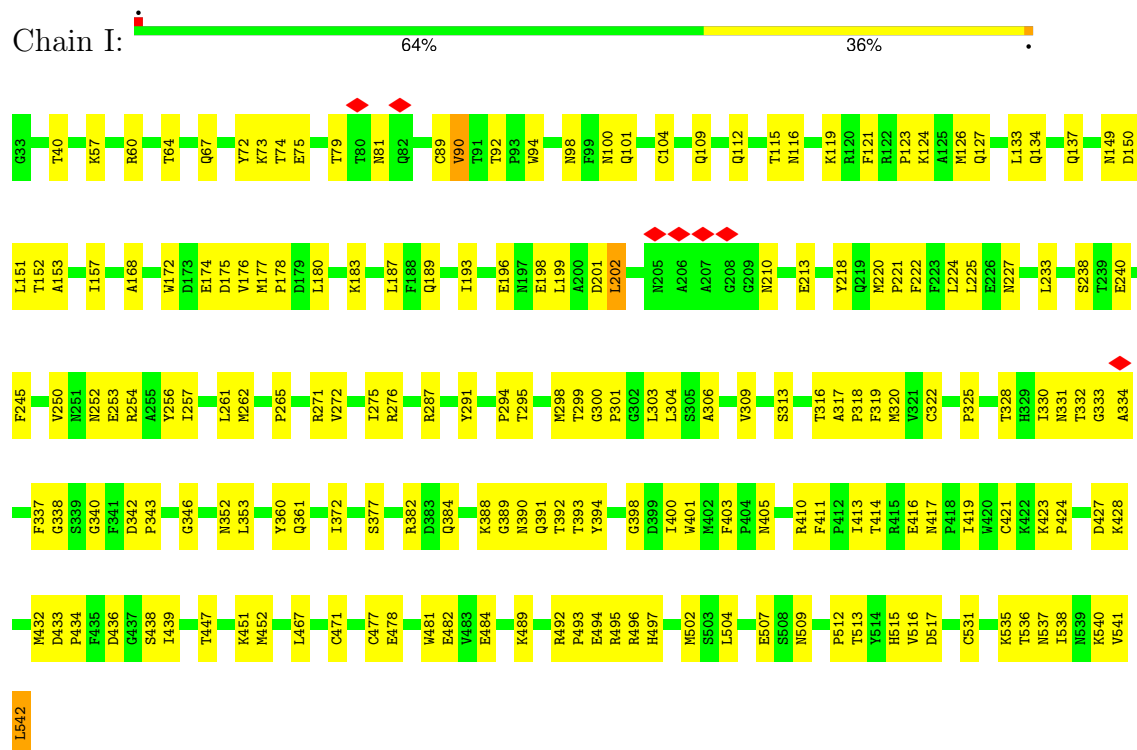


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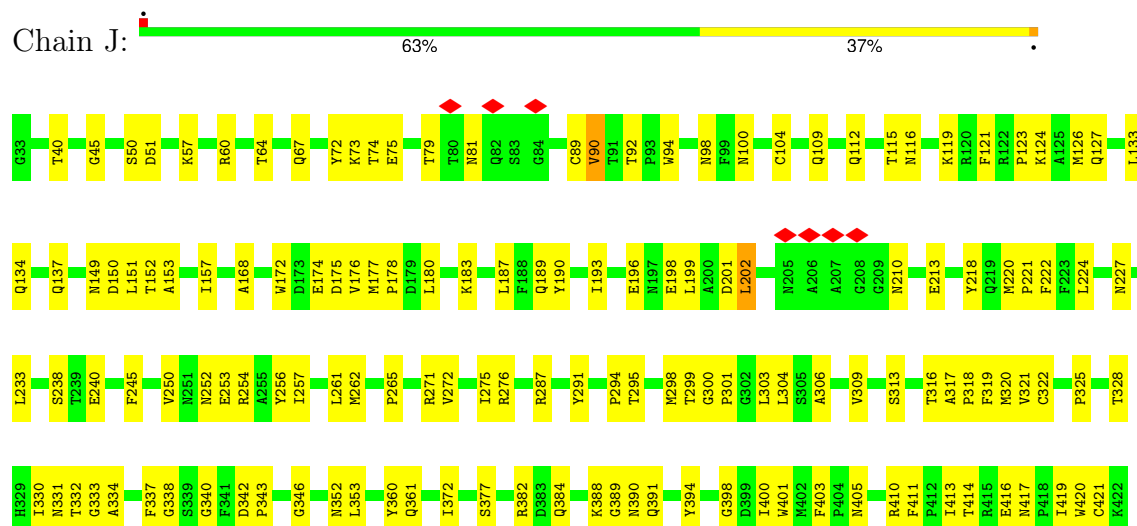


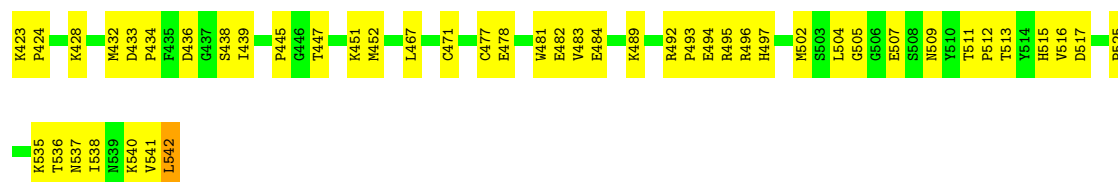


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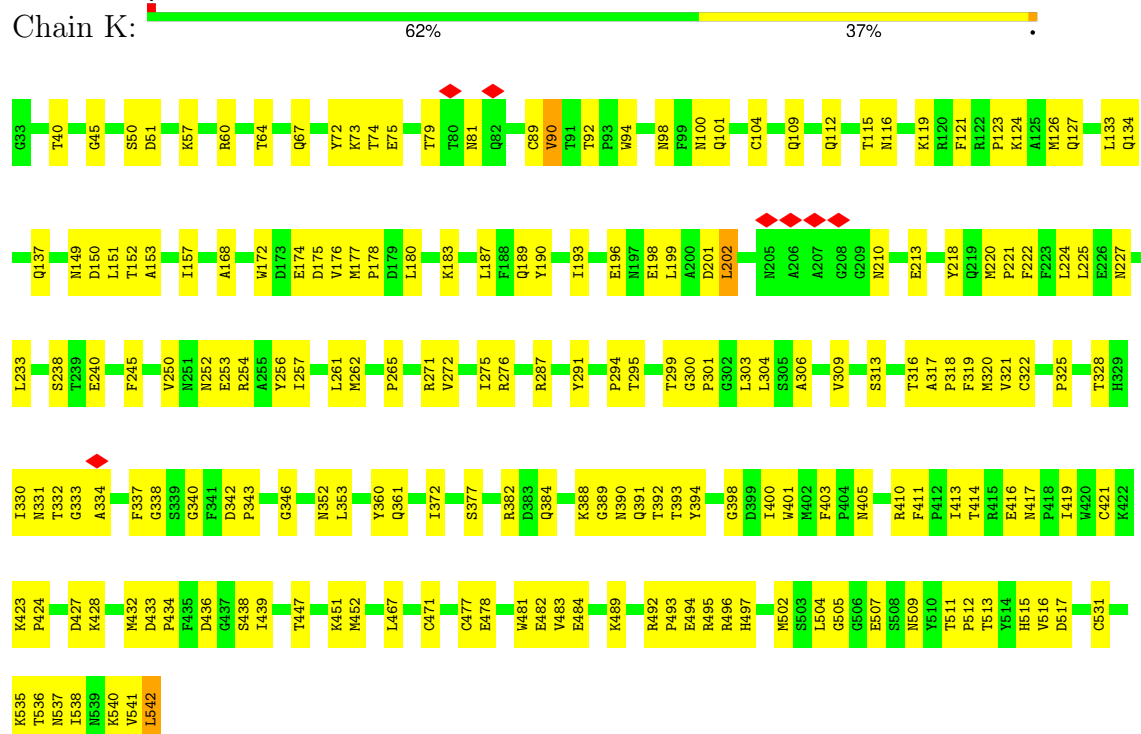


• Molecule 1: VP2

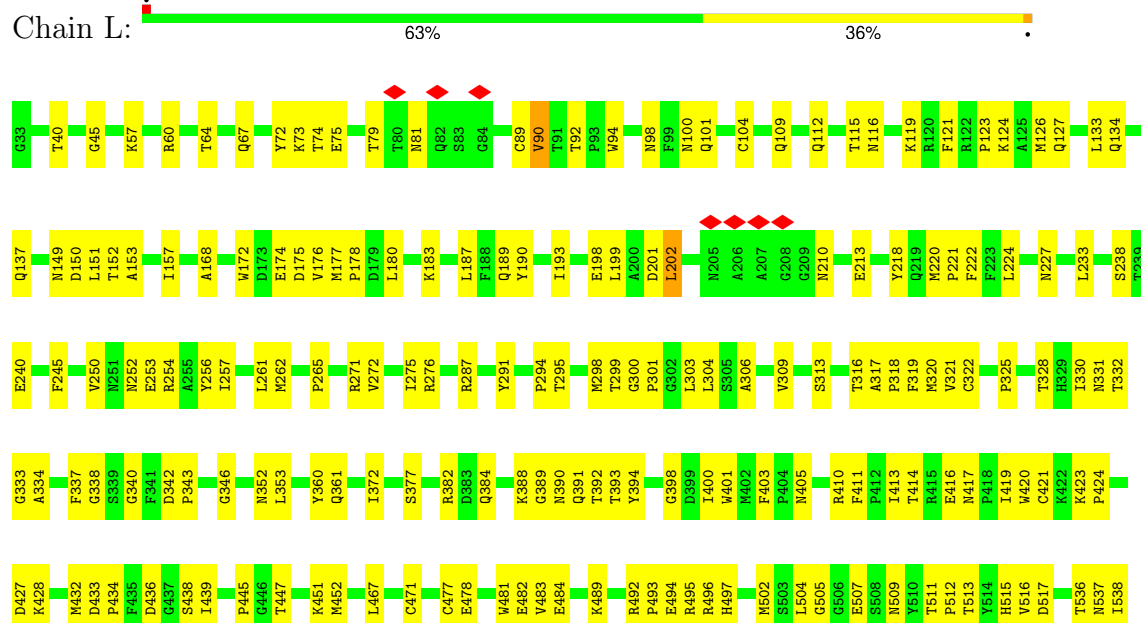




• Molecule 1: VP2



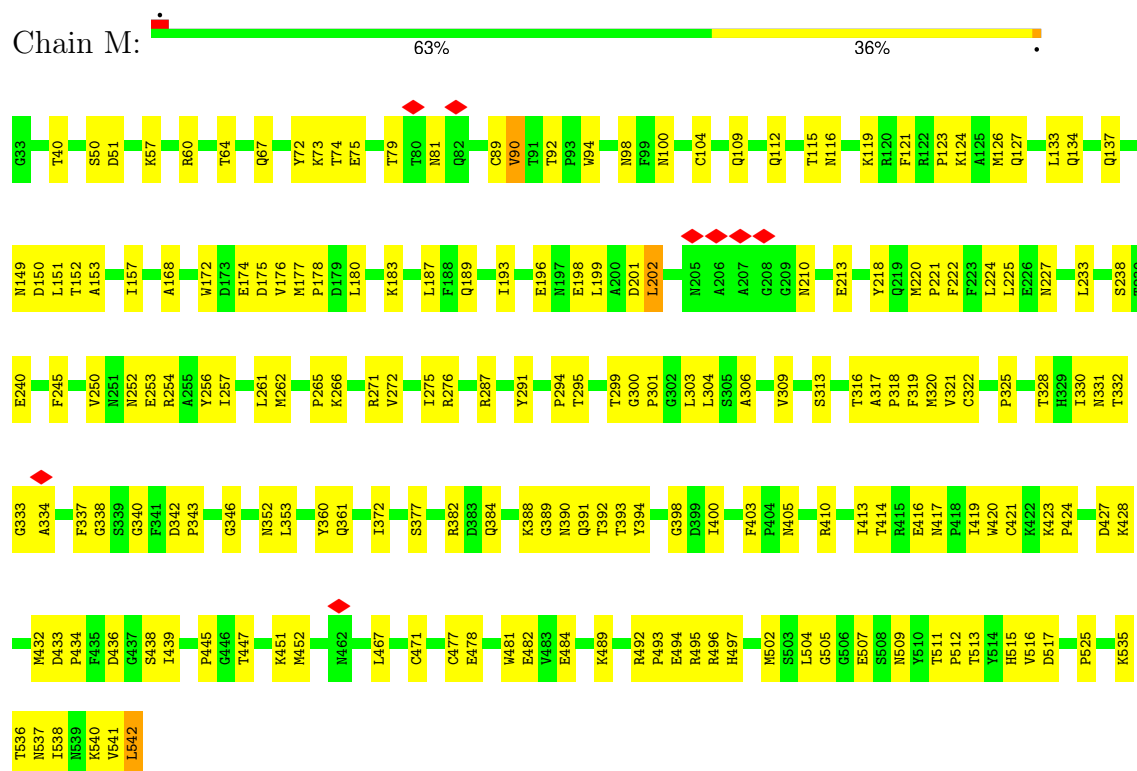
• Molecule 1: VP2



N539
K540
V541
L542

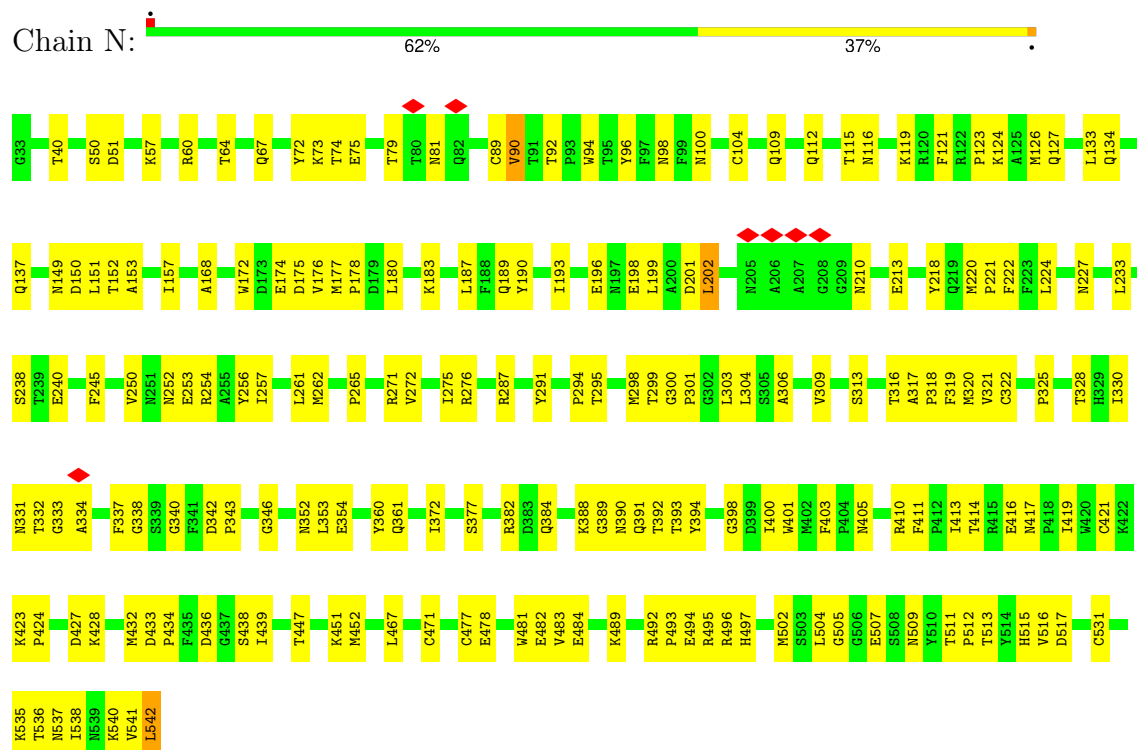
• Molecule 1: VP2

Chain M:

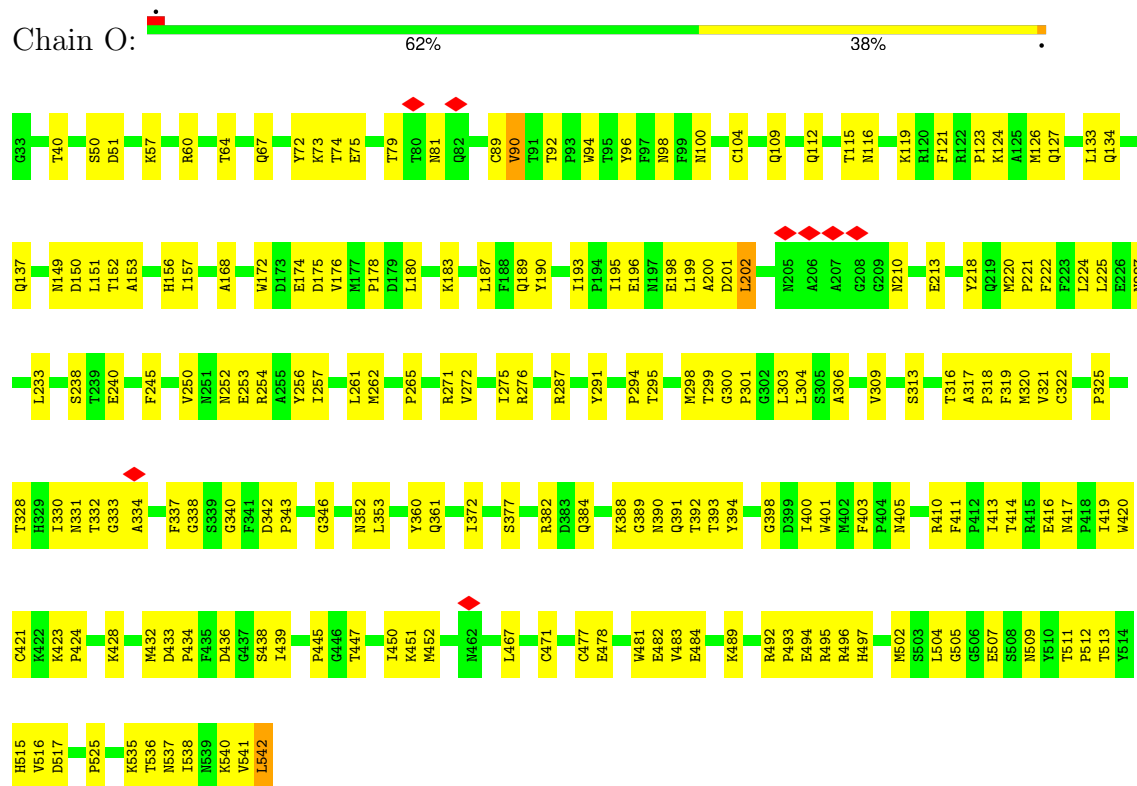


• Molecule 1: VP2

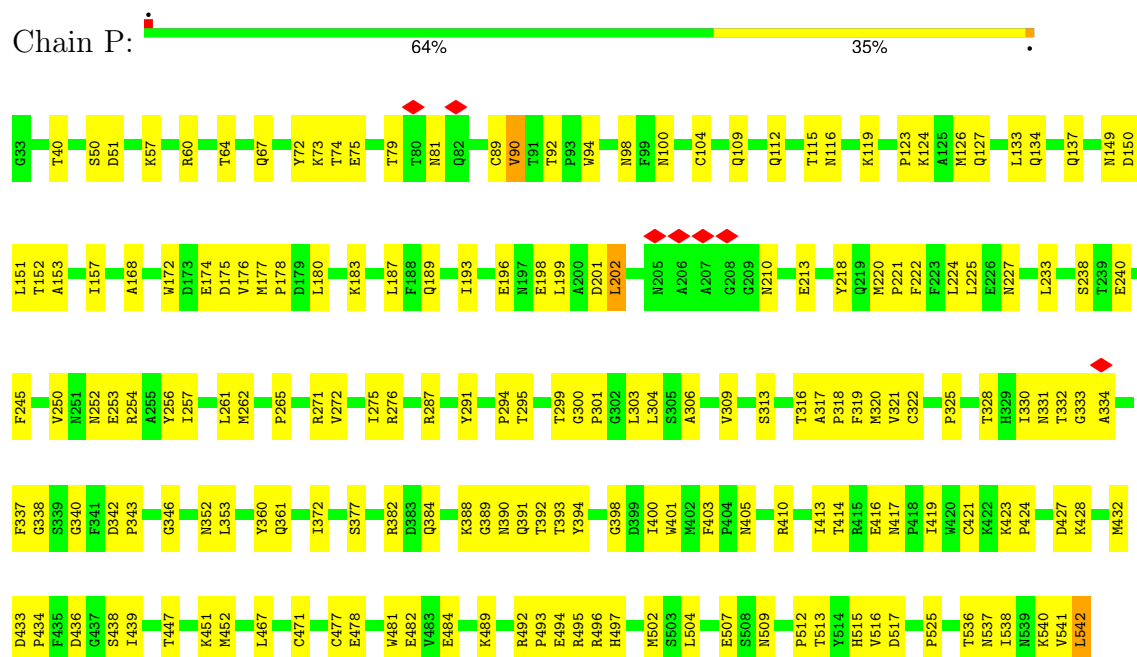
Chain N:



- Molecule 1: VP2

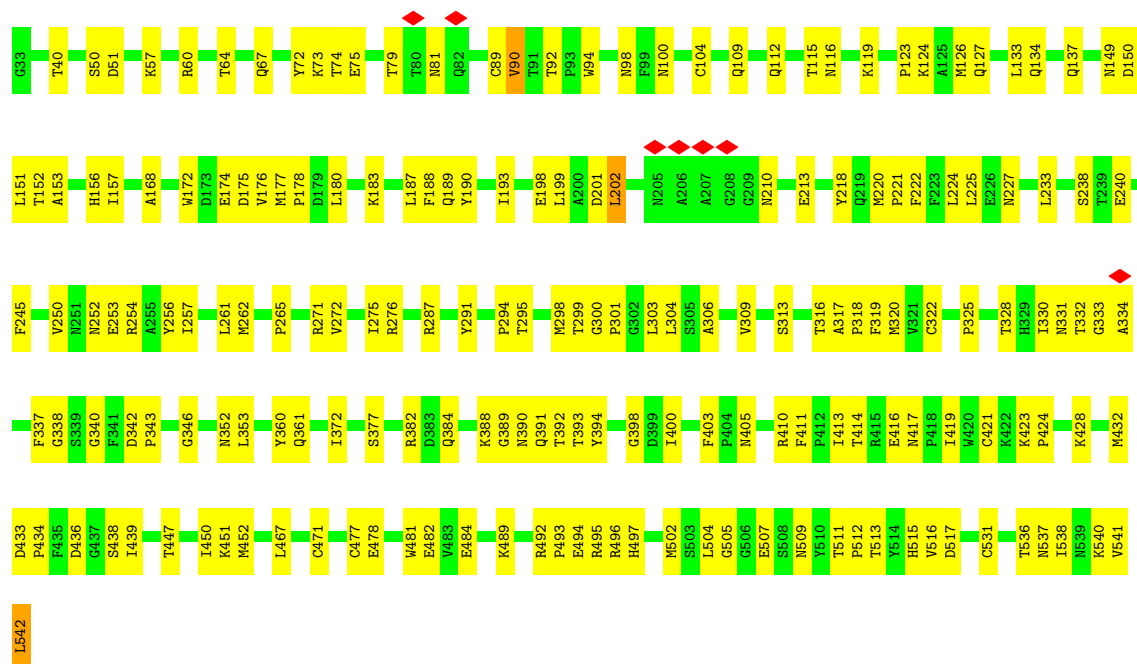


- Molecule 1: VP2

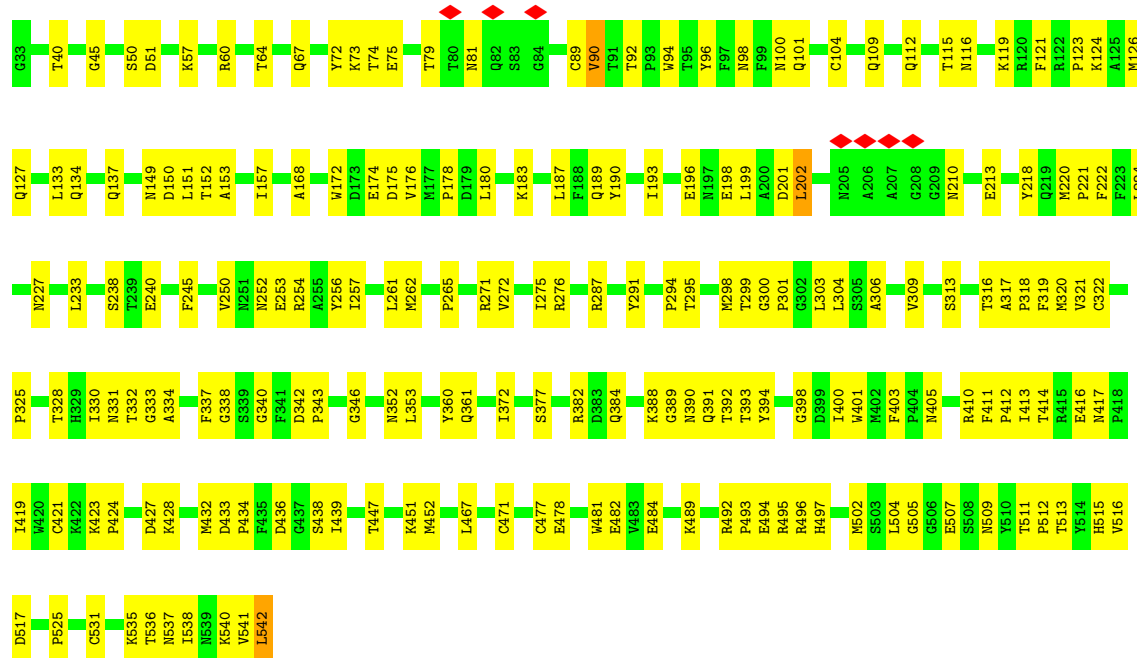


- Molecule 1: VP2

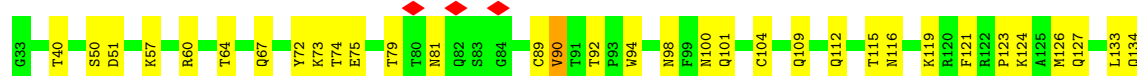


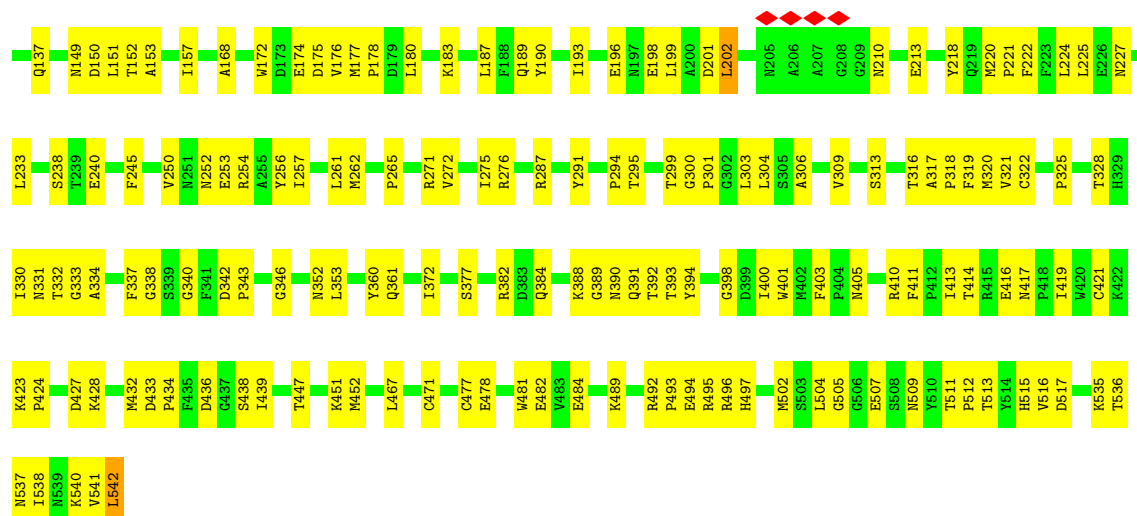


• Molecule 1: VP2

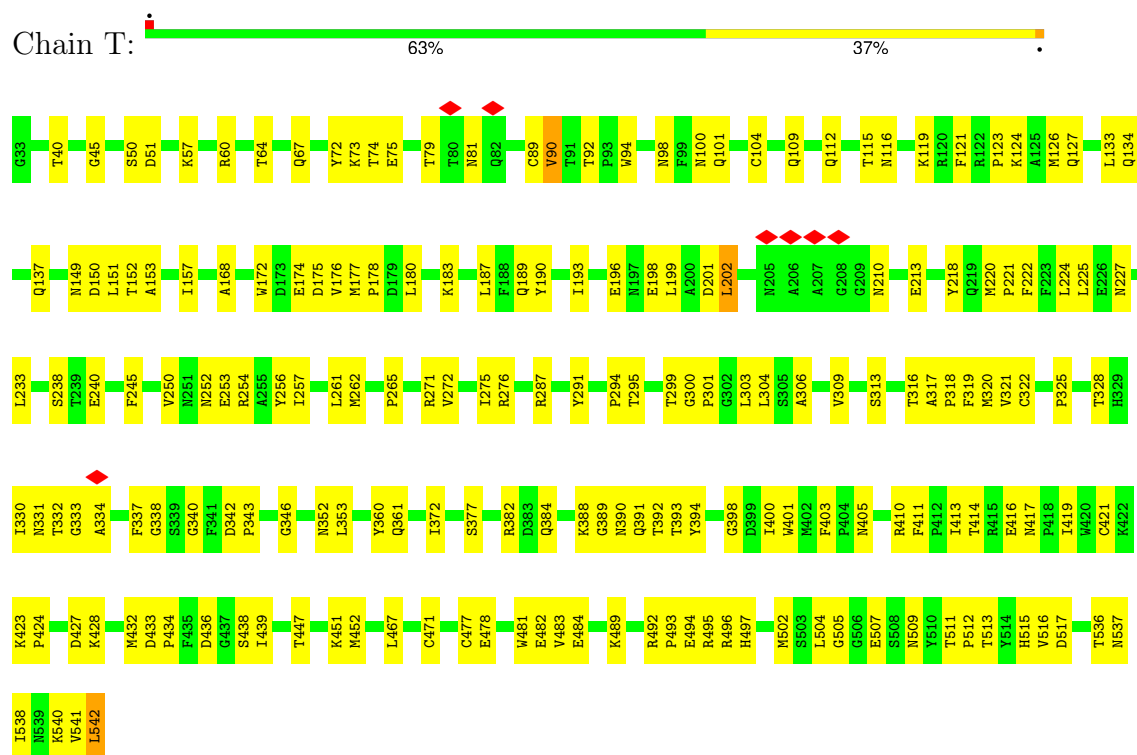


• Molecule 1: VP2

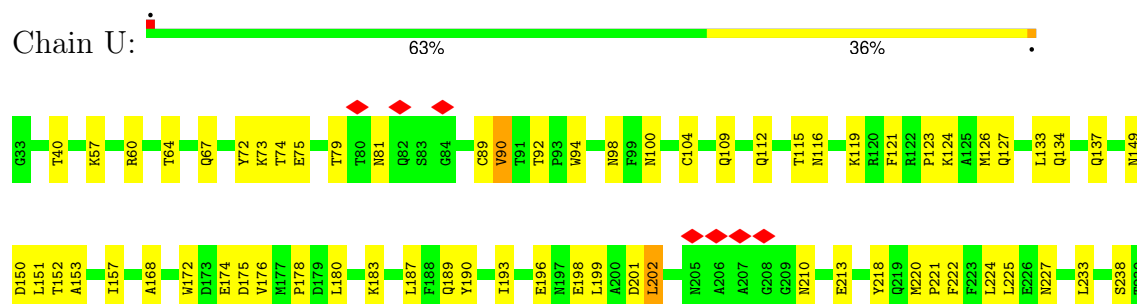




• Molecule 1: VP2

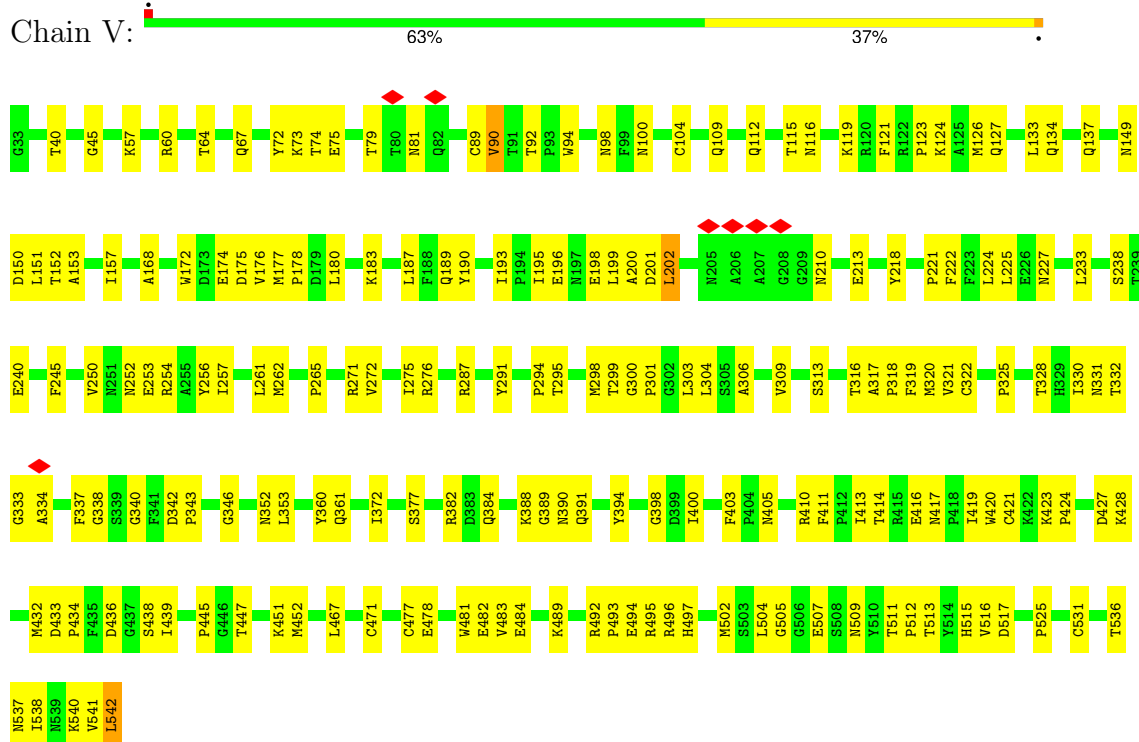


• Molecule 1: VP2

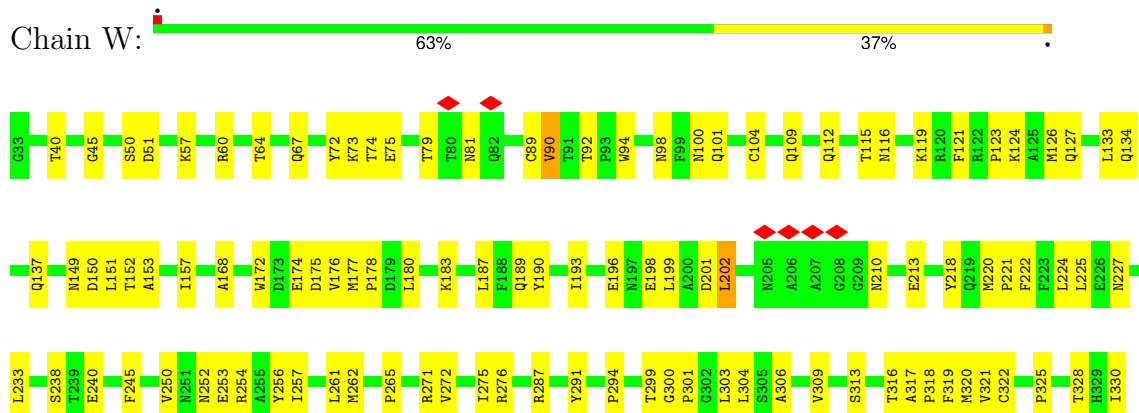


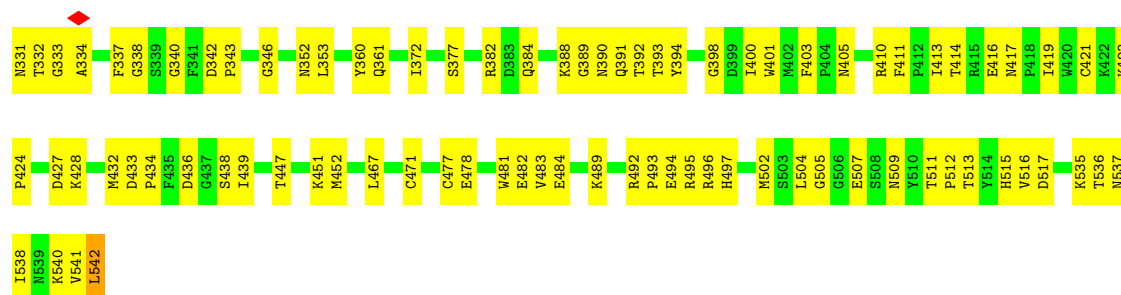


• Molecule 1: VP2

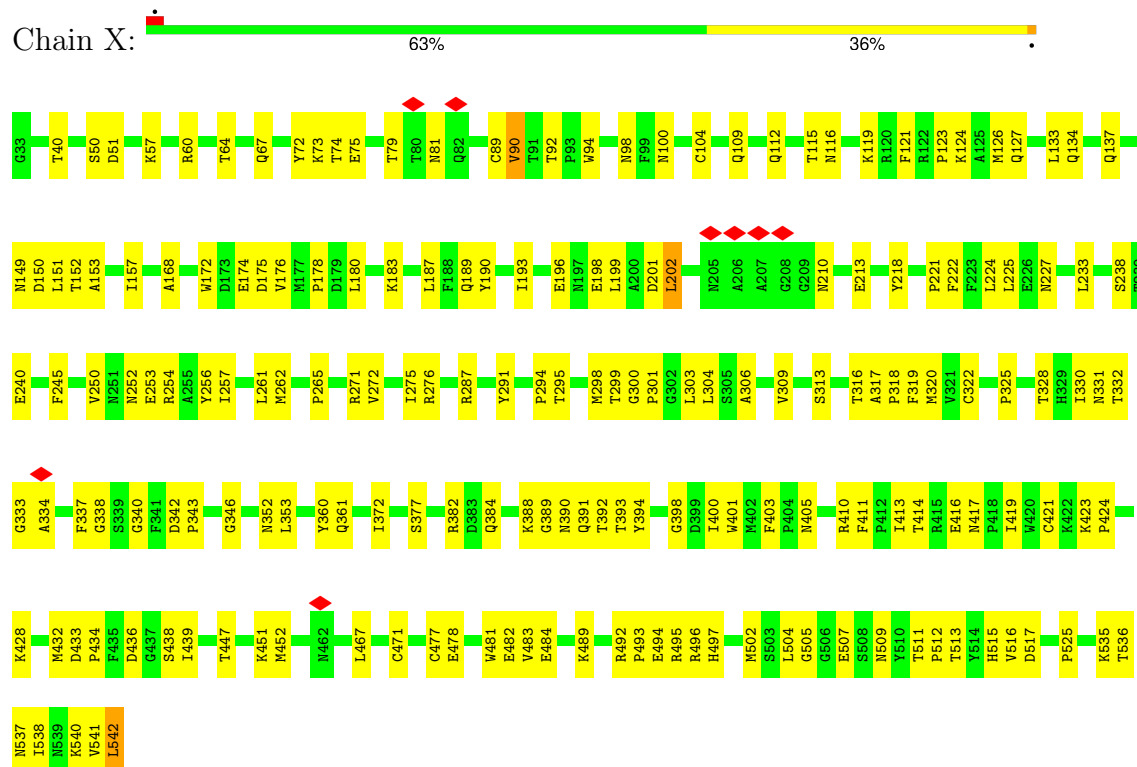


• Molecule 1: VP2

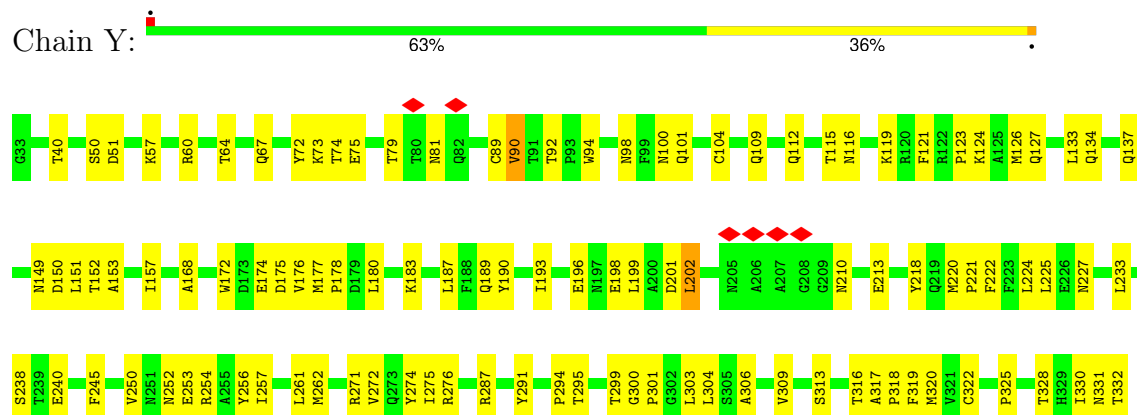


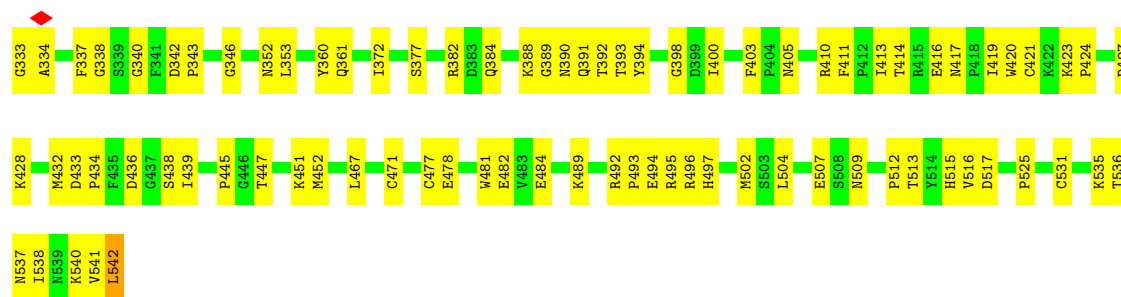


• Molecule 1: VP2



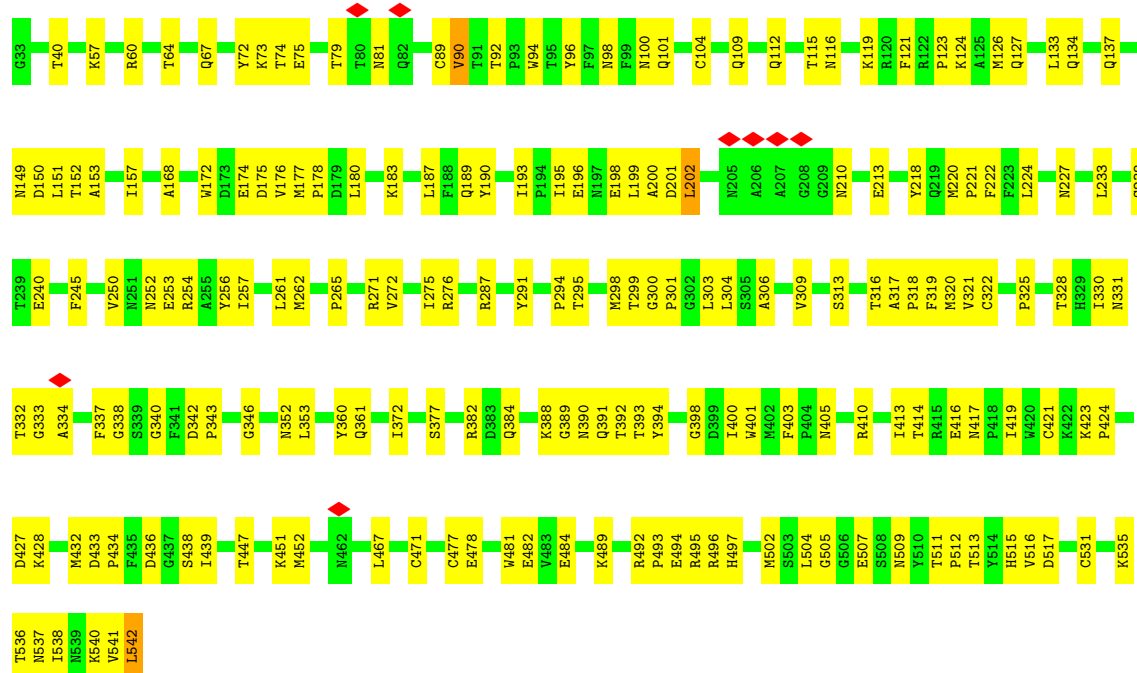
• Molecule 1: VP2





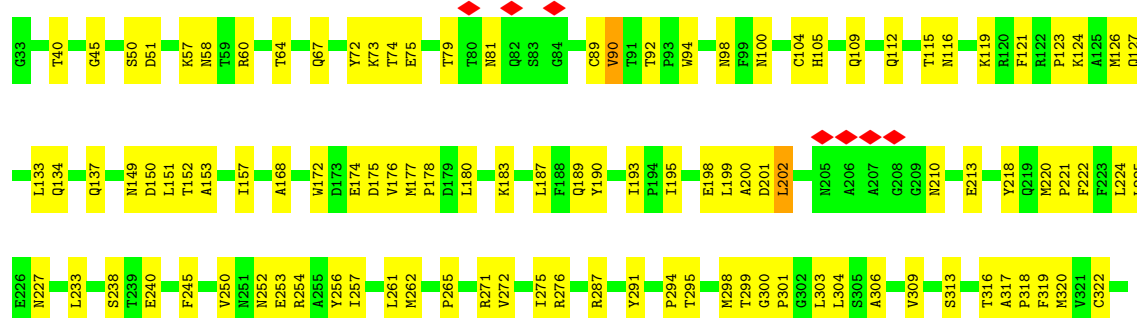
• Molecule 1: VP2

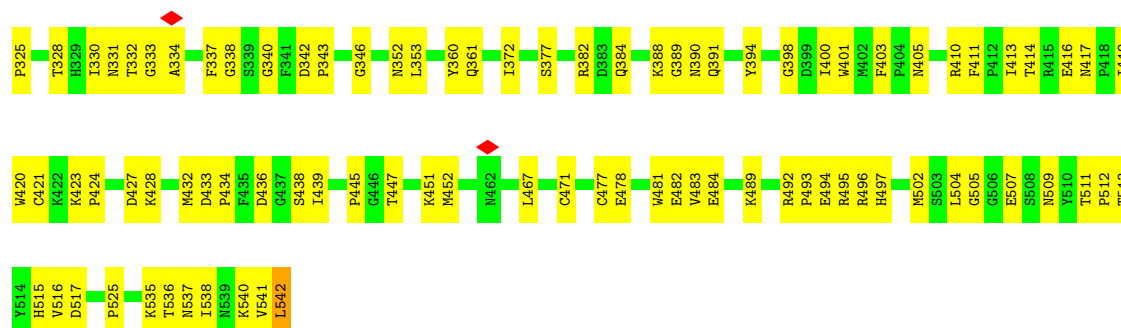
Chain Z: 63% 37%



• Molecule 1: VP2

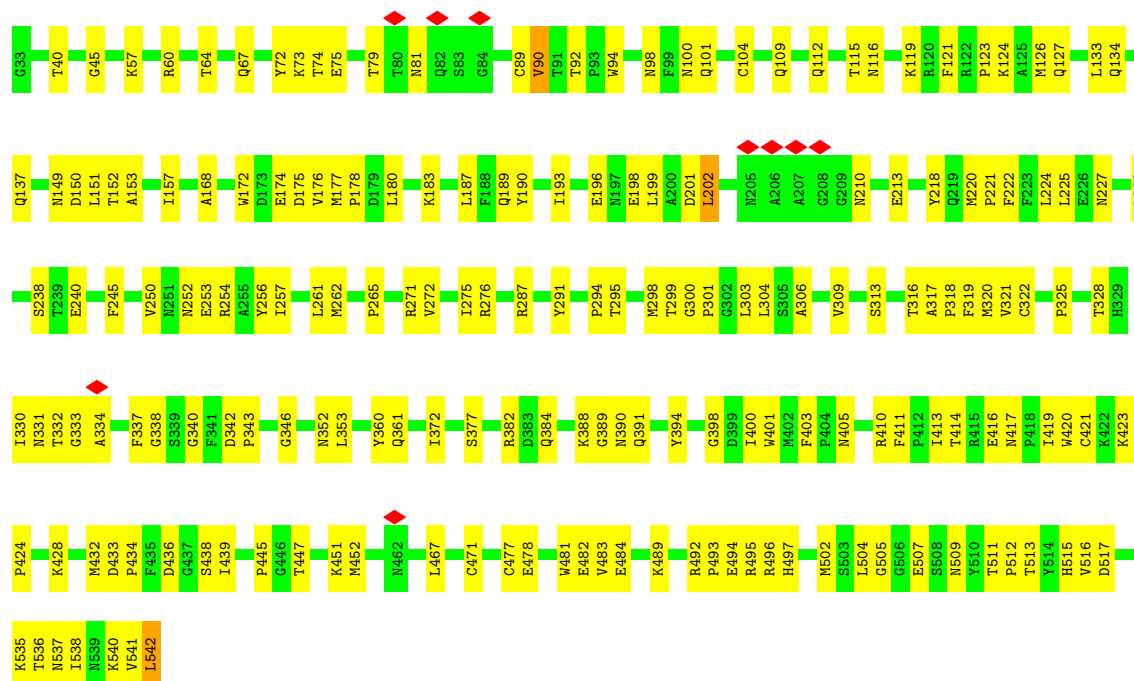
Chain a: 62% 37%





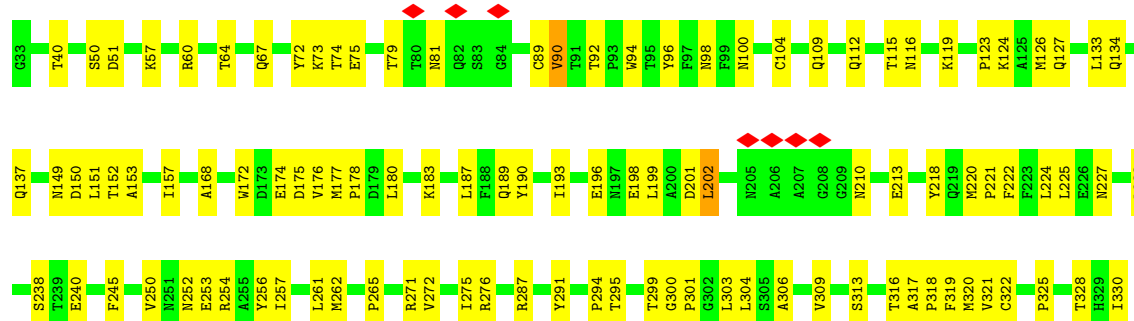
• Molecule 1: VP2

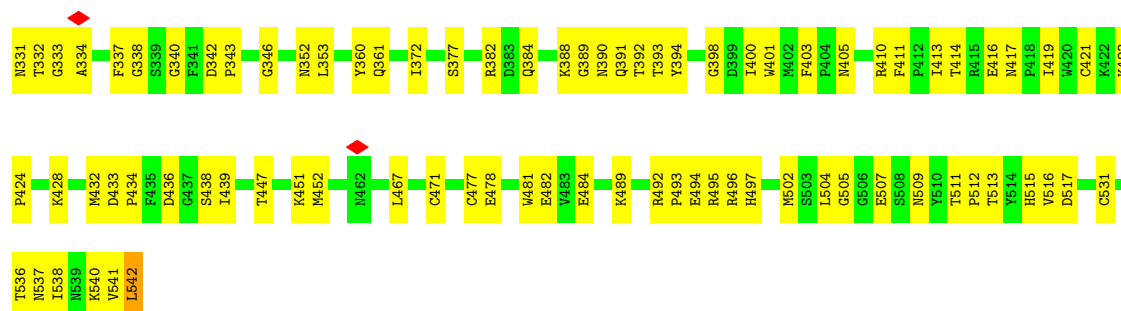
Chain b: 63% 36%



• Molecule 1: VP2

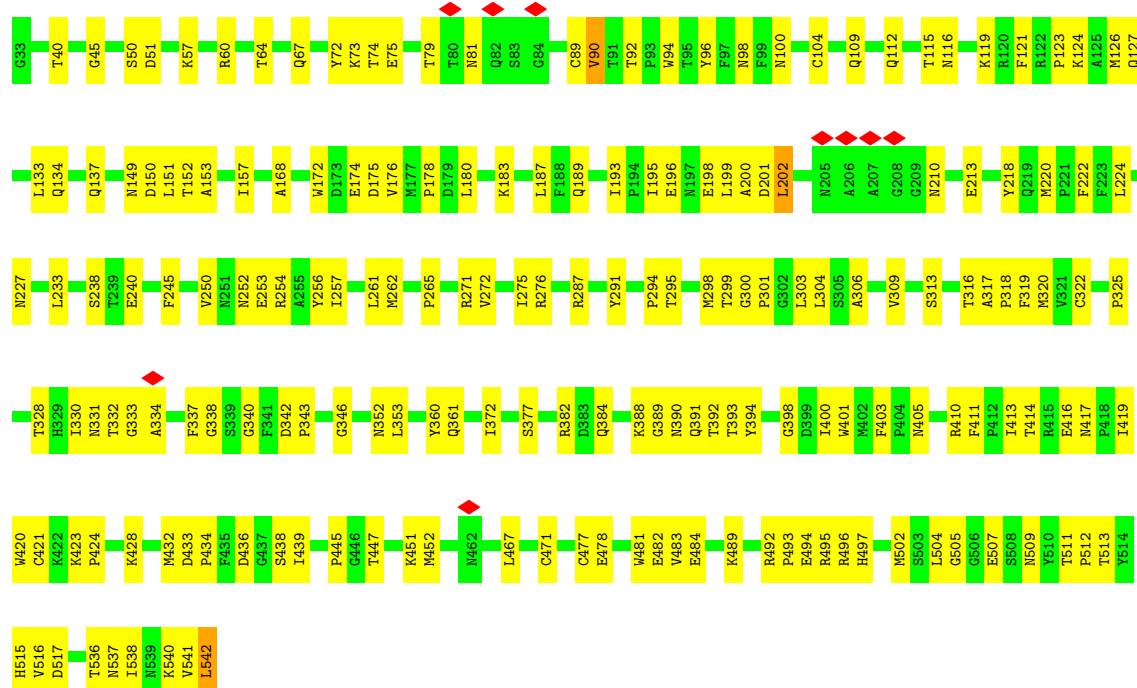
Chain c: 63% 36%





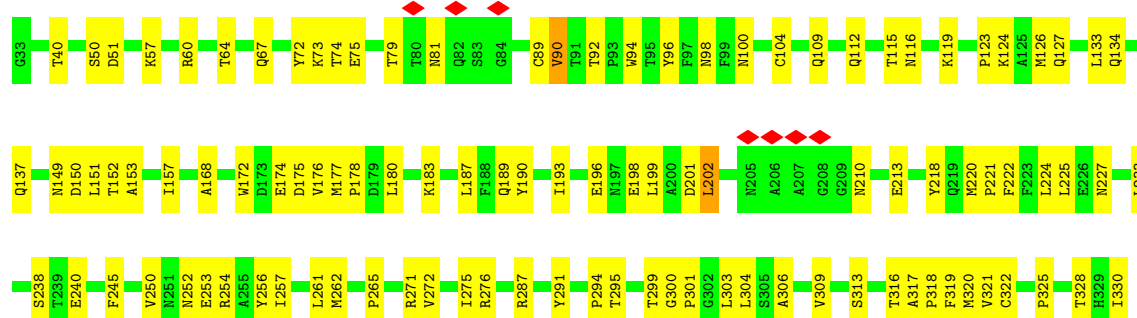
• Molecule 1: VP2

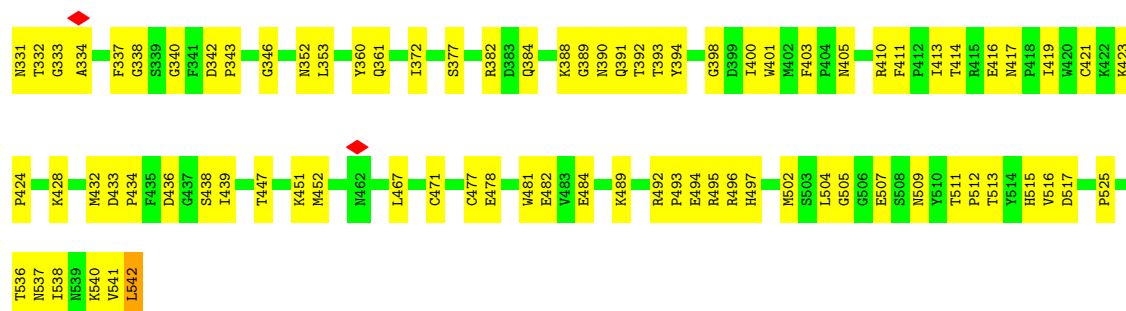
Chain d: 63% 36%



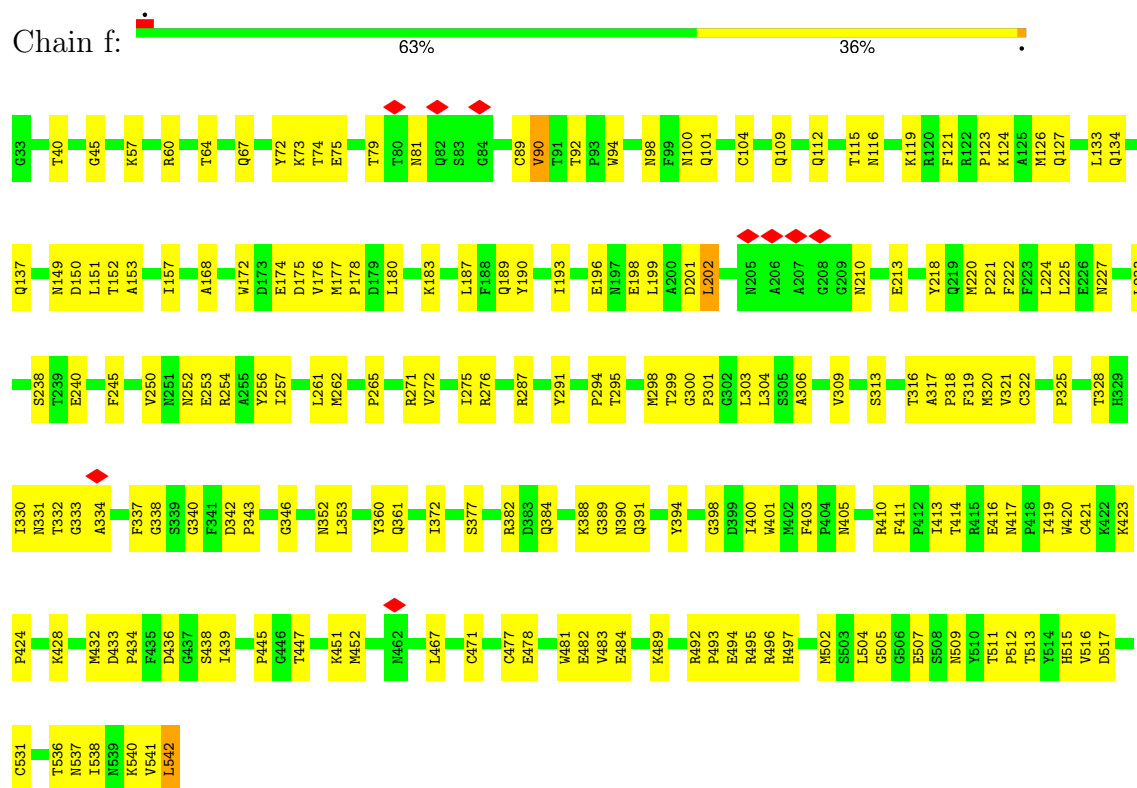
• Molecule 1: VP2

Chain e: 63% 36%

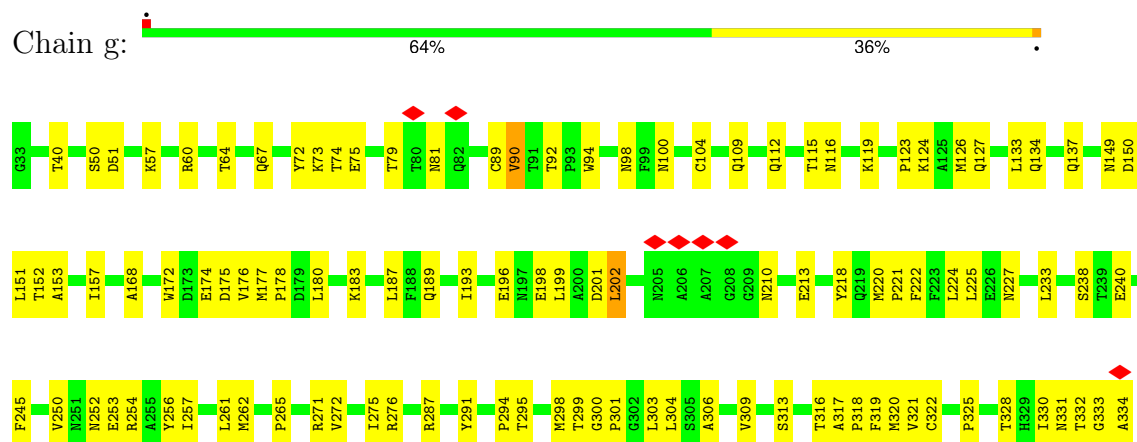


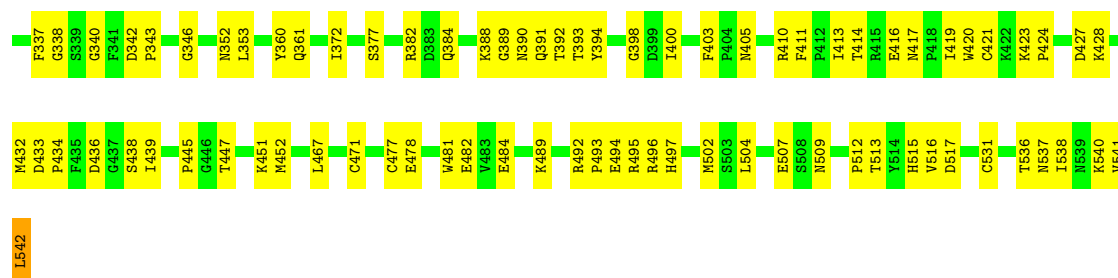


- Molecule 1: VP2

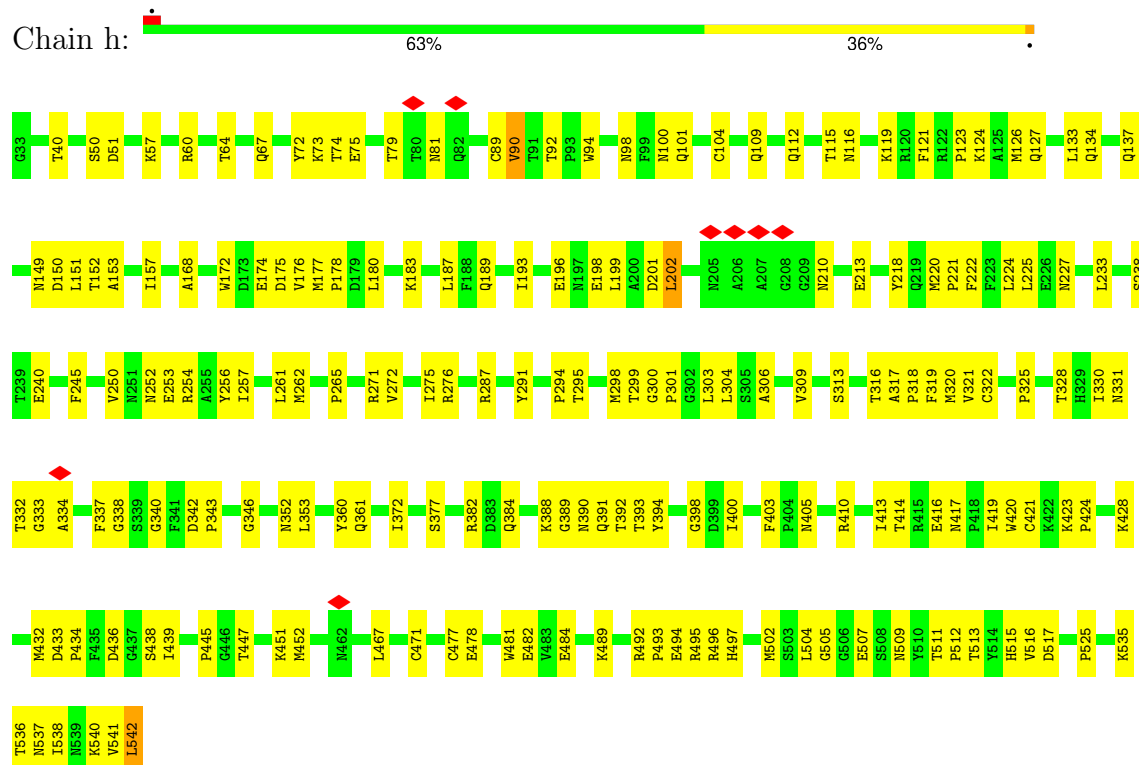


- Molecule 1: VP2

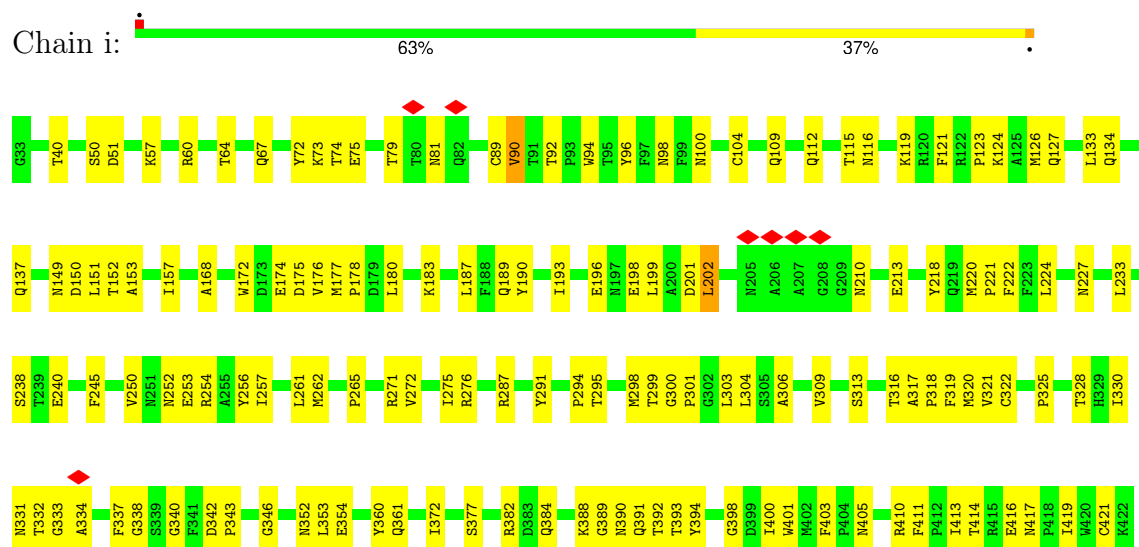


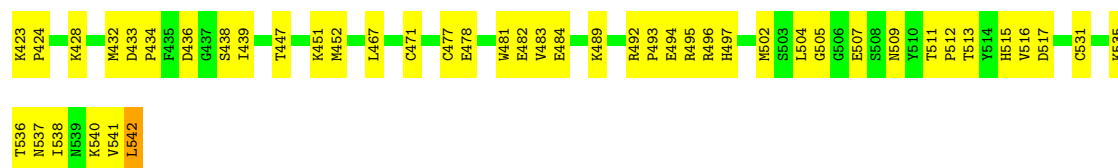


• Molecule 1: VP2

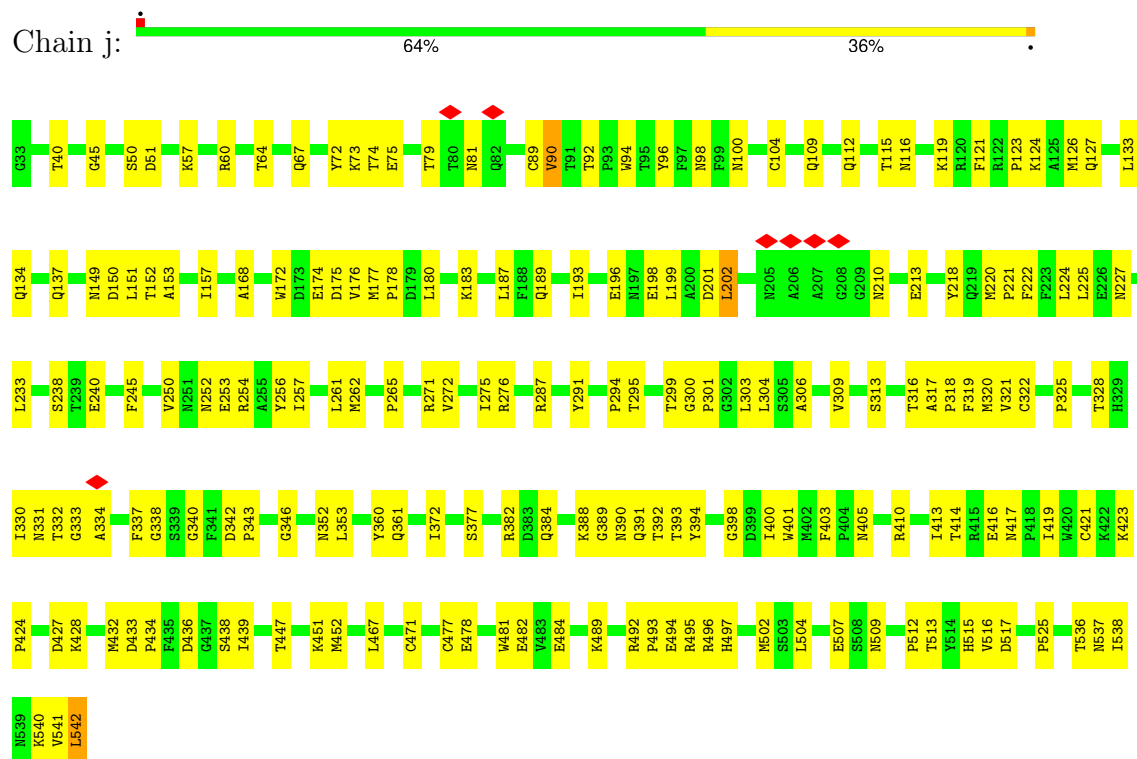


• Molecule 1: VP2

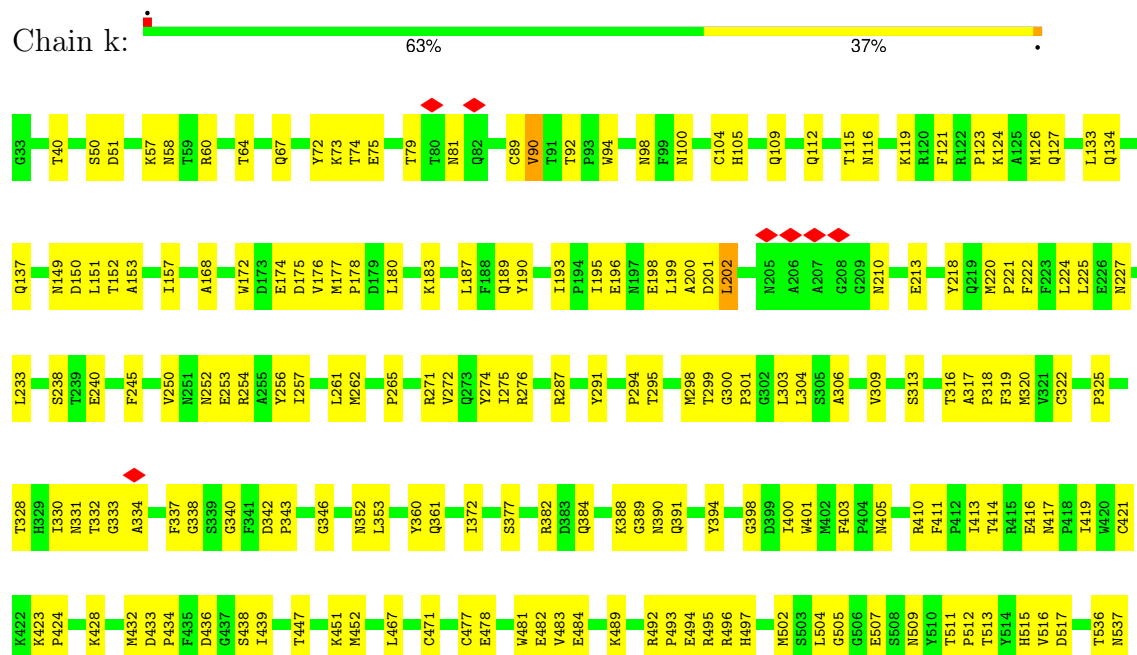




• Molecule 1: VP2



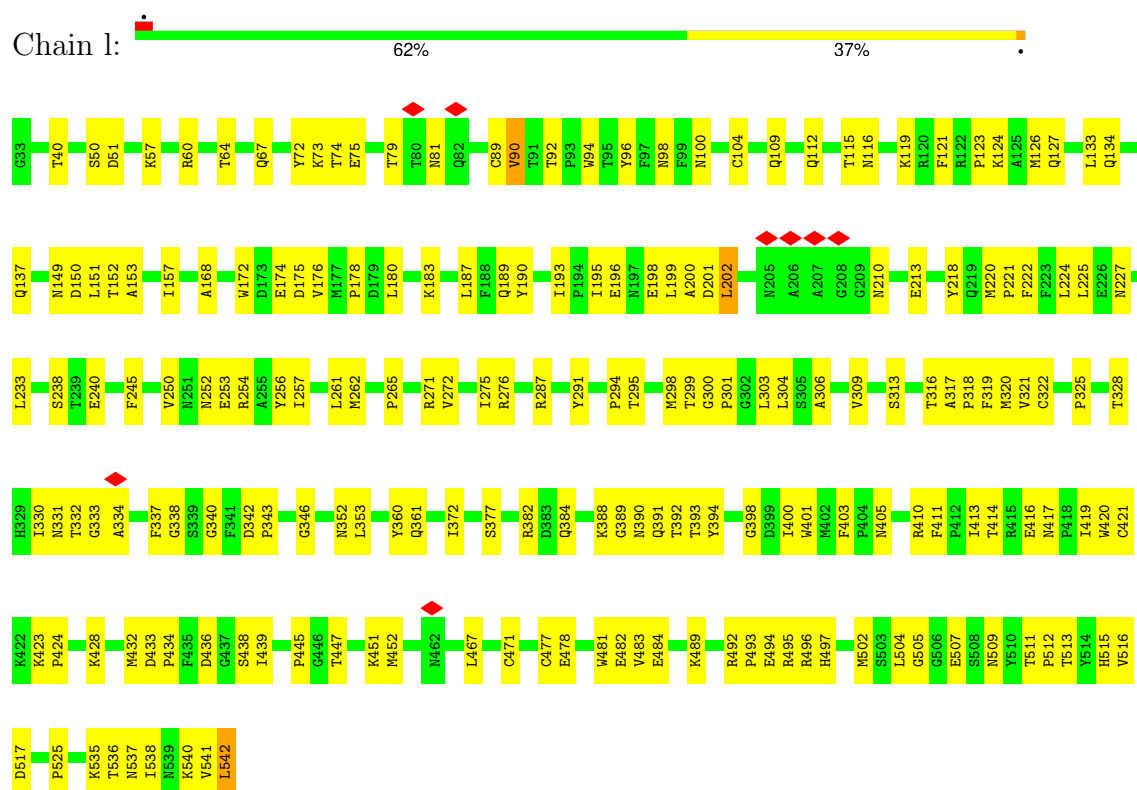
• Molecule 1: VP2



I538
N539
K540
V541
L542

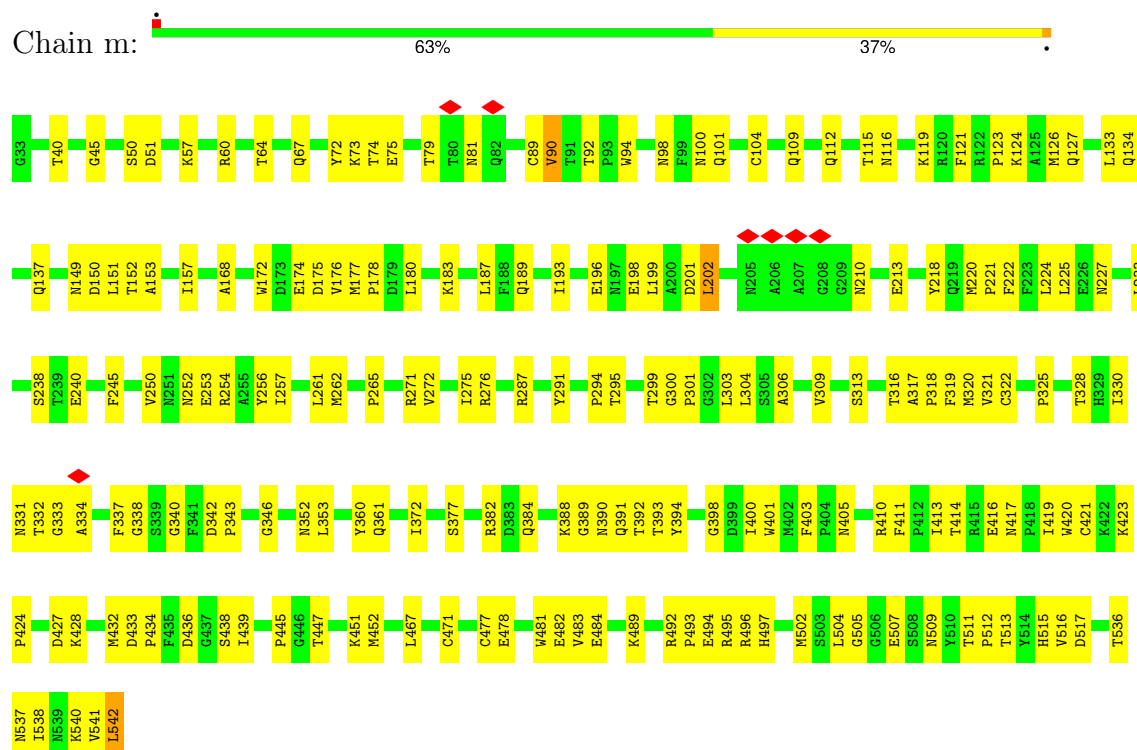
• Molecule 1: VP2

Chain l:

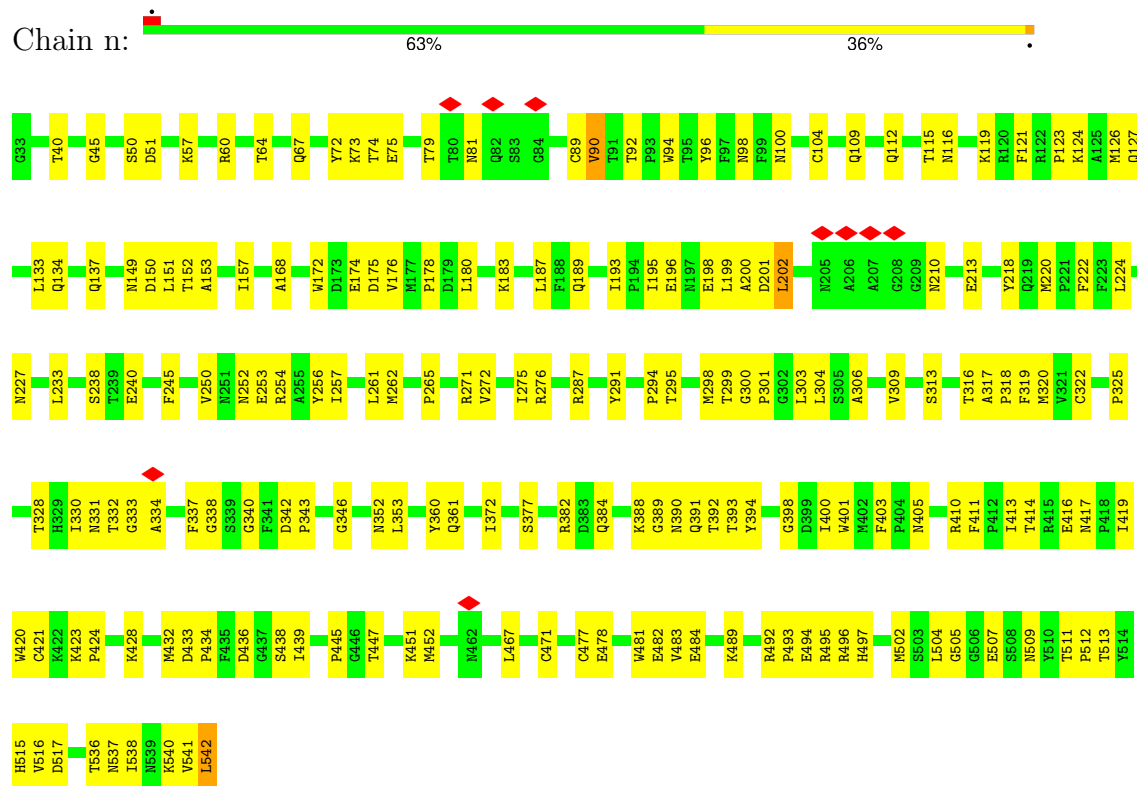


• Molecule 1: VP2

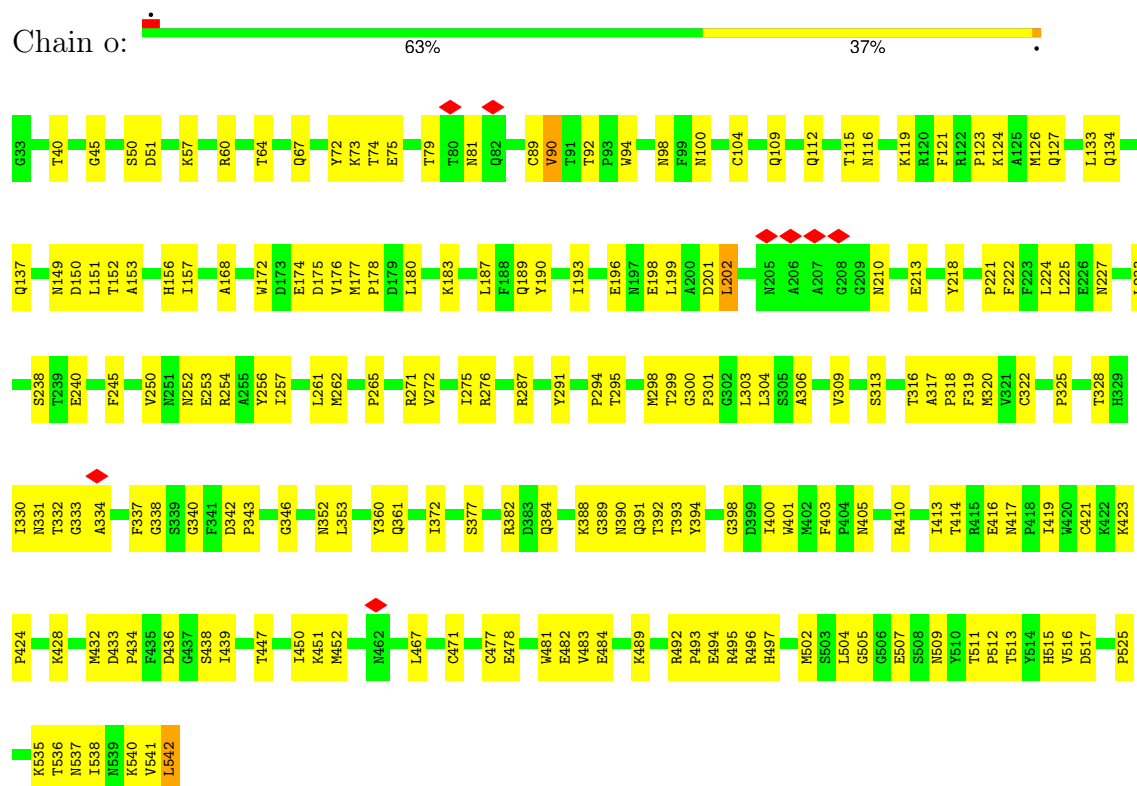
Chain m:



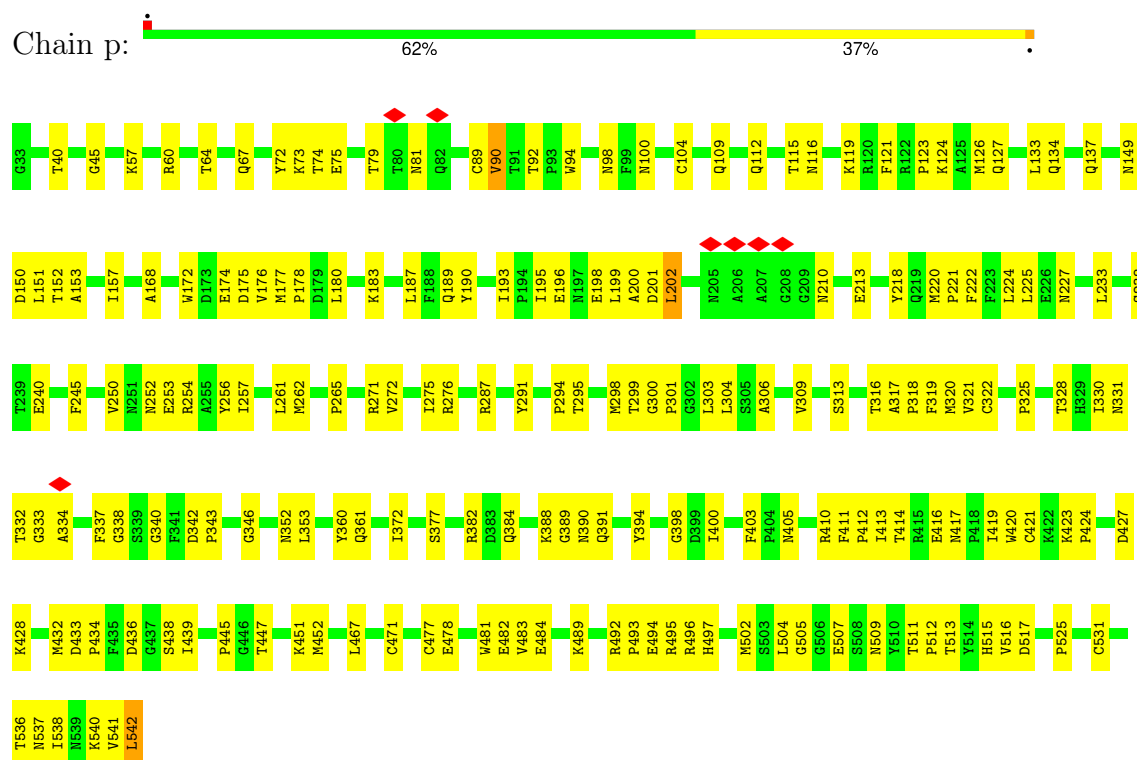
- Molecule 1: VP2



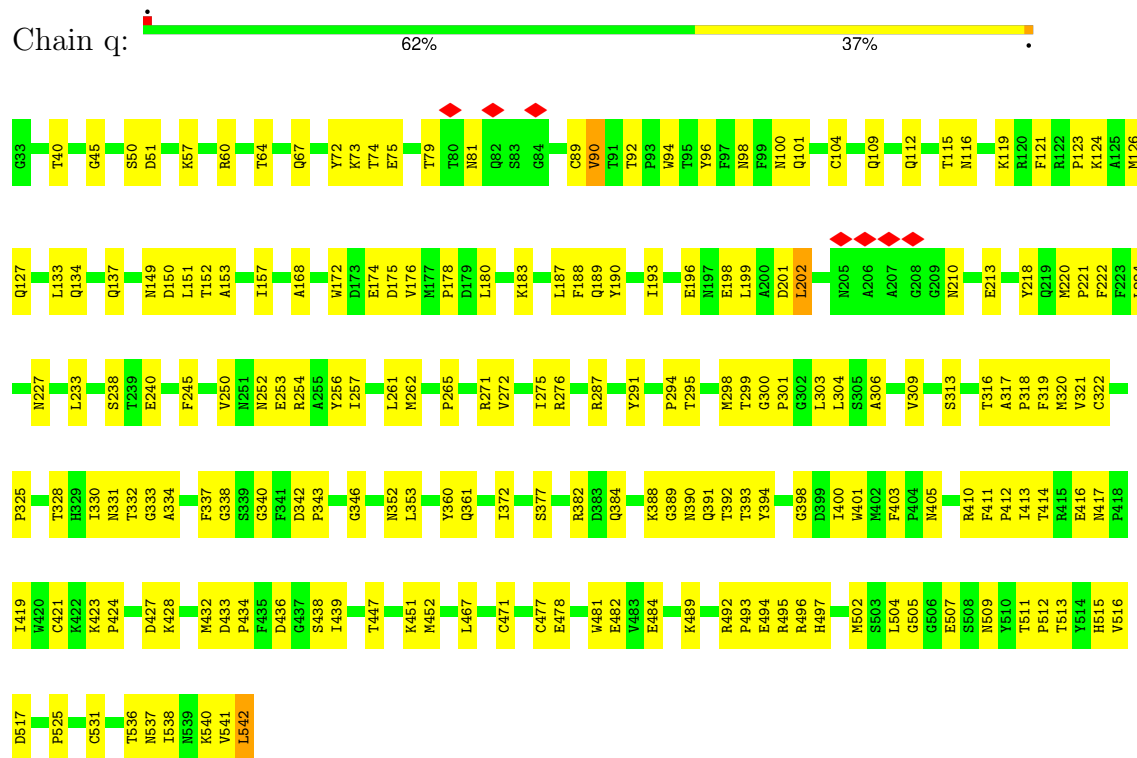
- Molecule 1: VP2



- Molecule 1: VP2

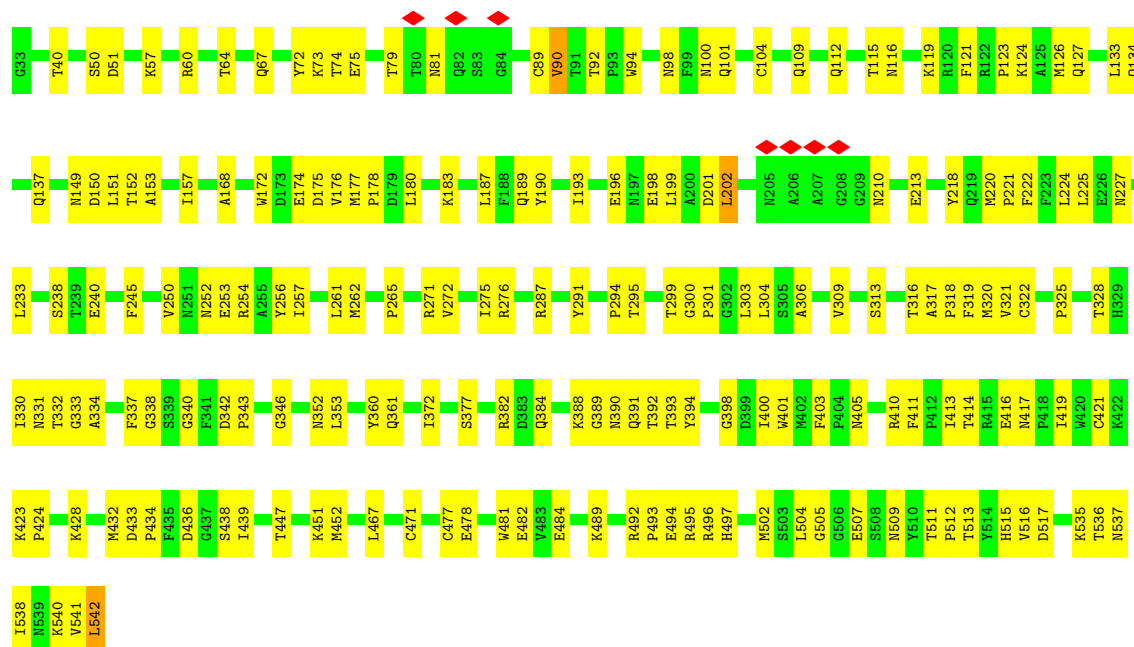


• Molecule 1: VP2

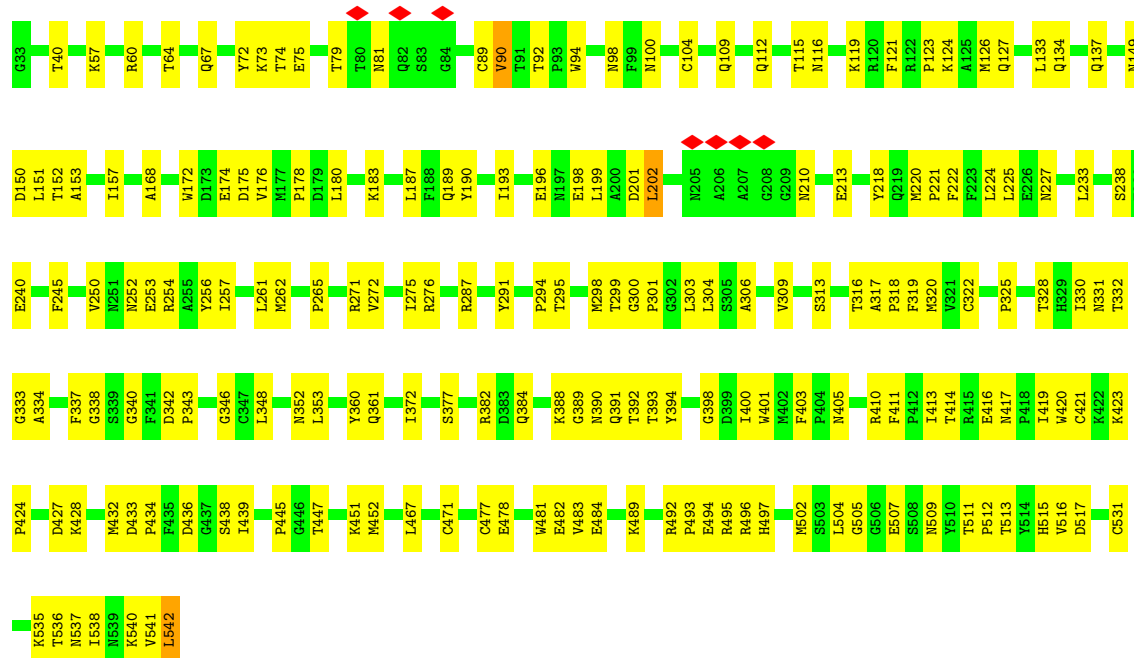


• Molecule 1: VP2

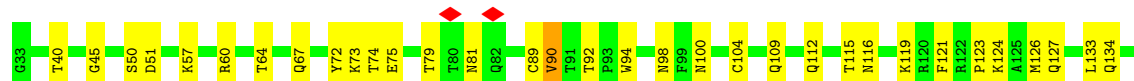


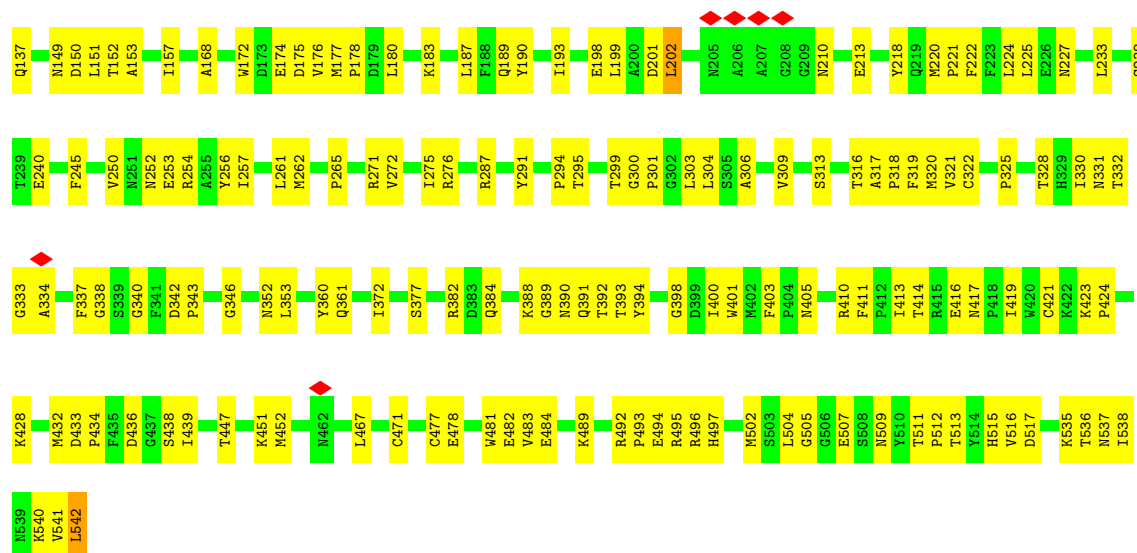


• Molecule 1: VP2



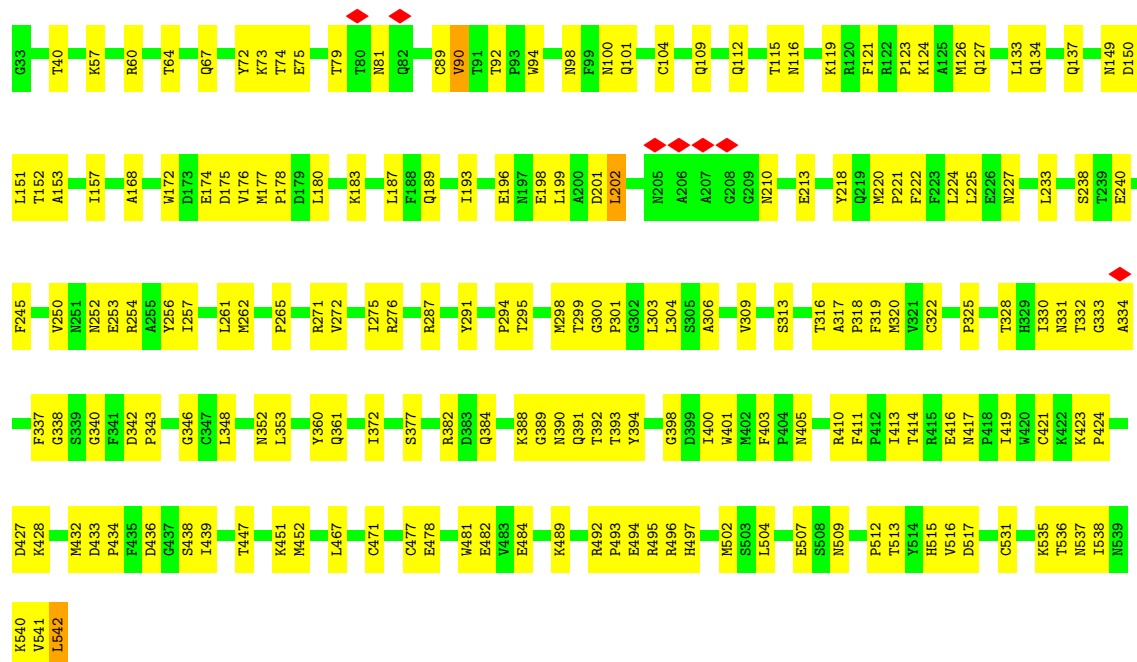
• Molecule 1: VP2





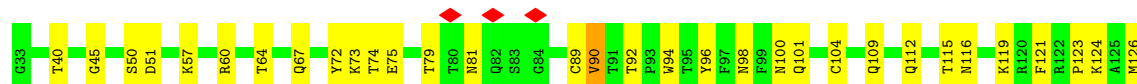
• Molecule 1: VP2

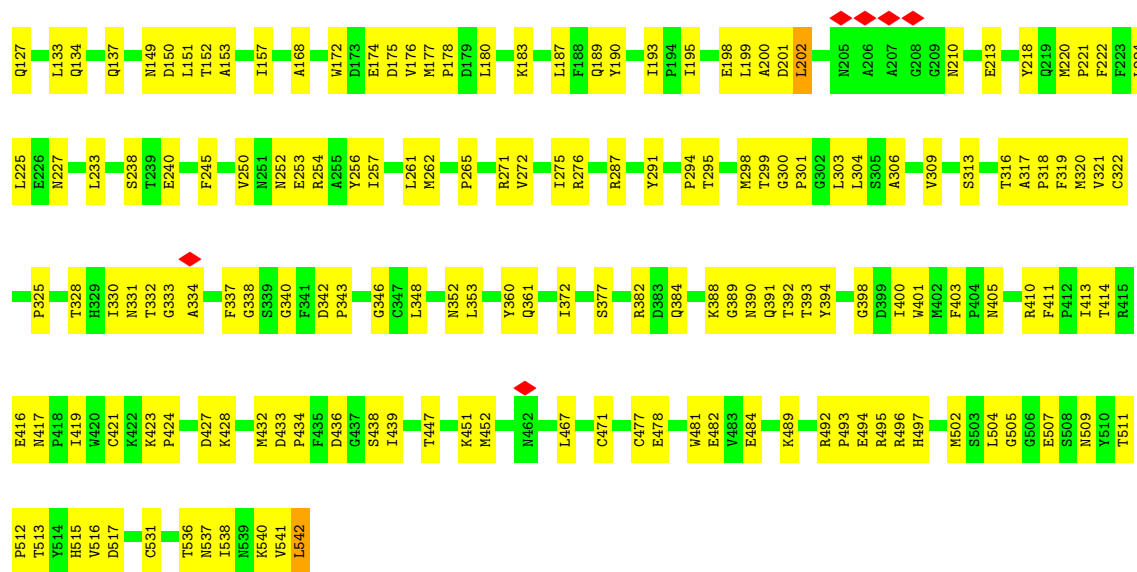
Chain u: 64% 36%



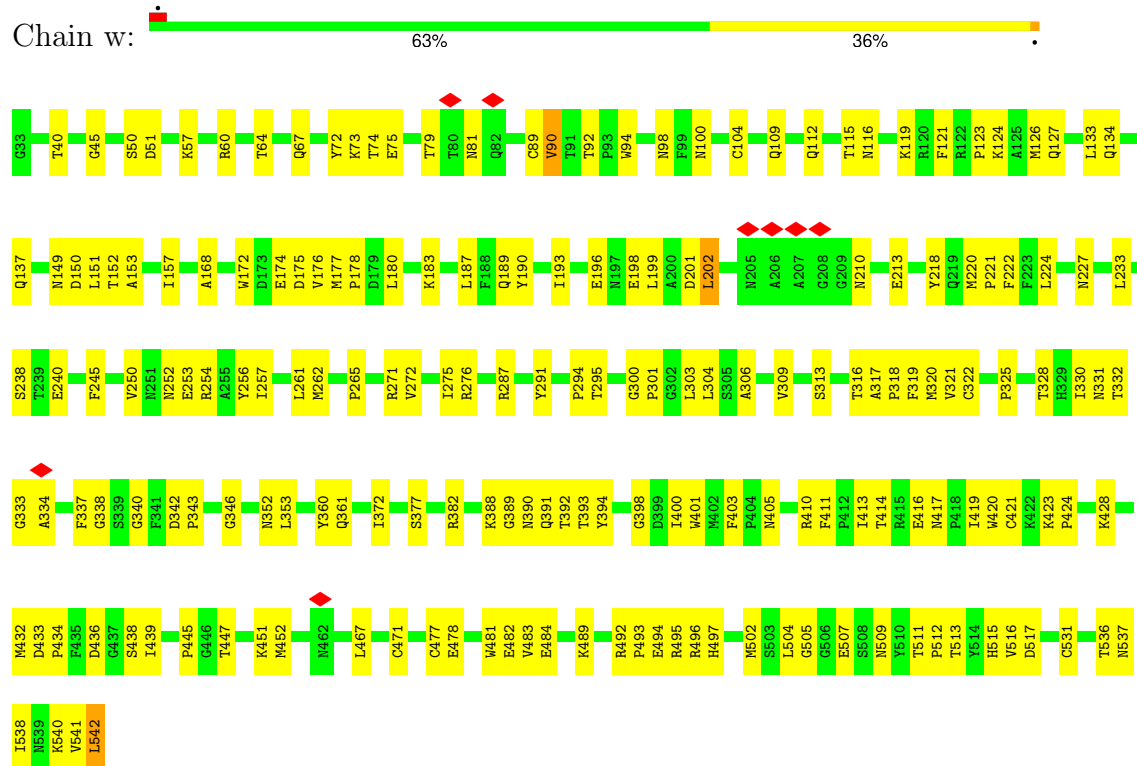
• Molecule 1: VP2

Chain v: 62% 37%

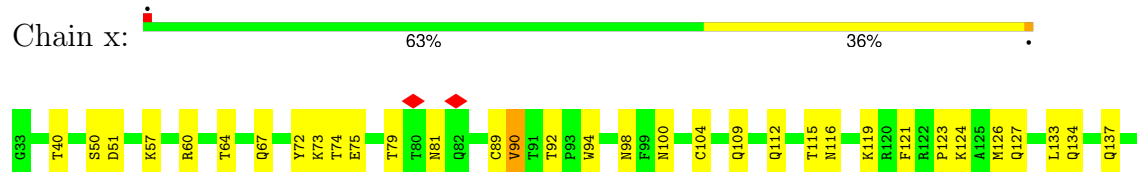


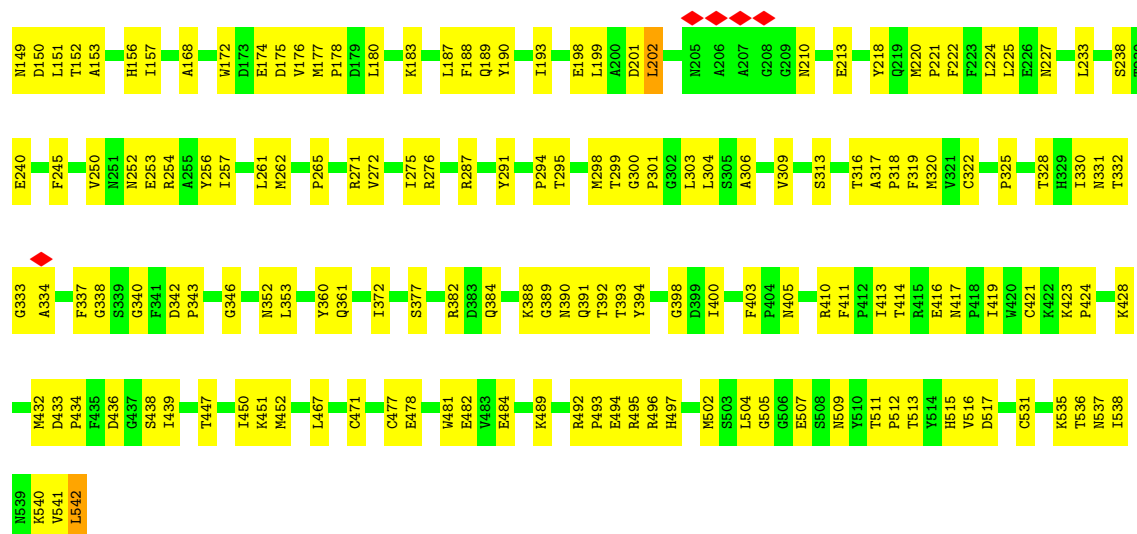


• Molecule 1: VP2

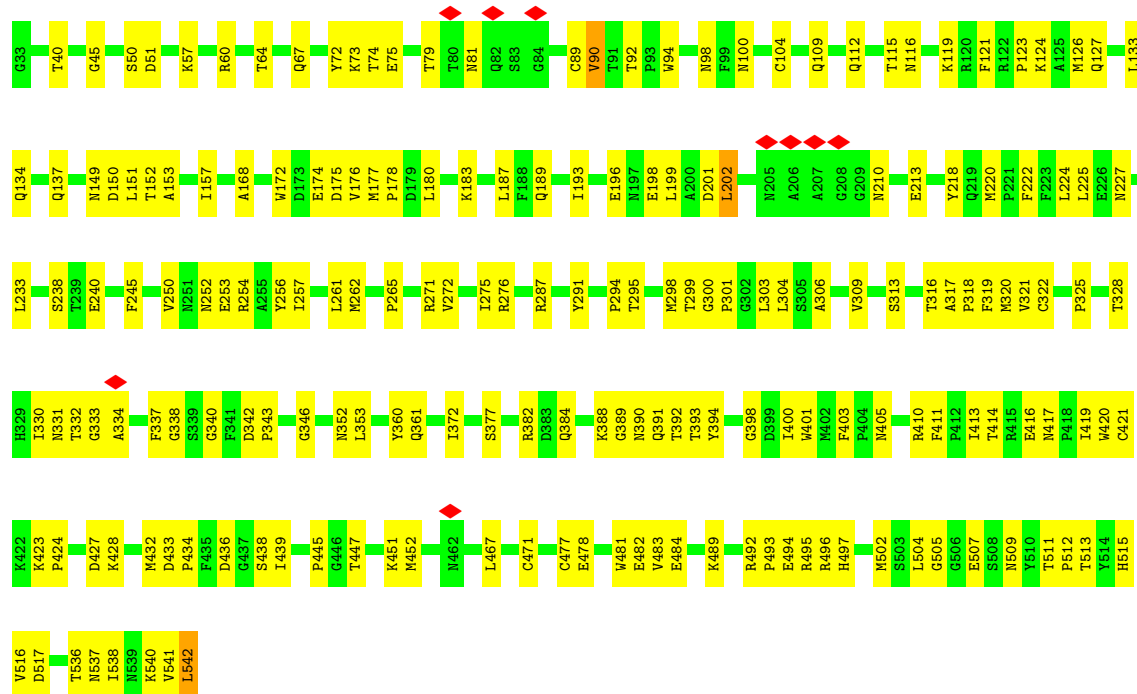


• Molecule 1: VP2

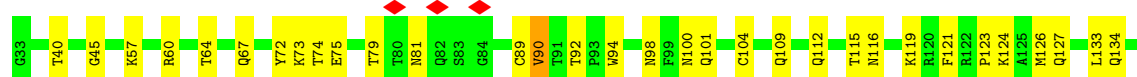


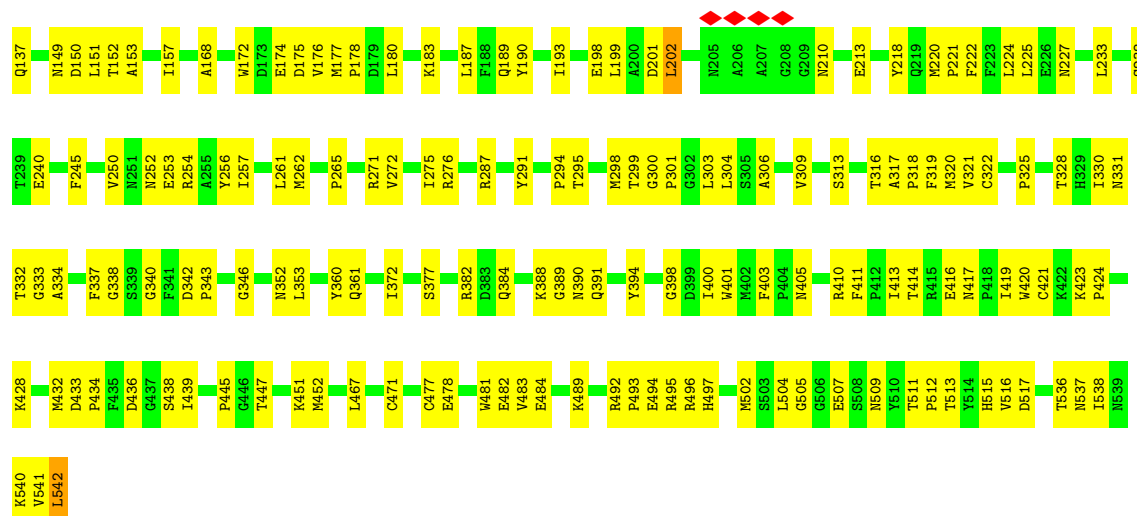


• Molecule 1: VP2

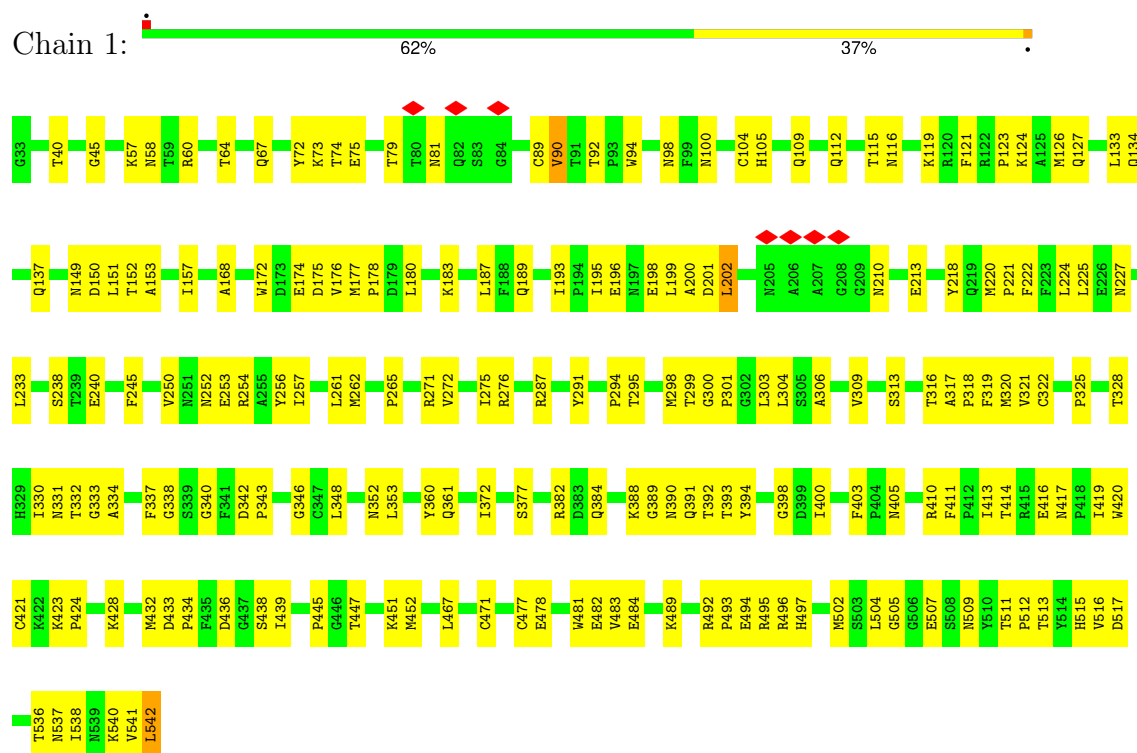


• Molecule 1: VP2

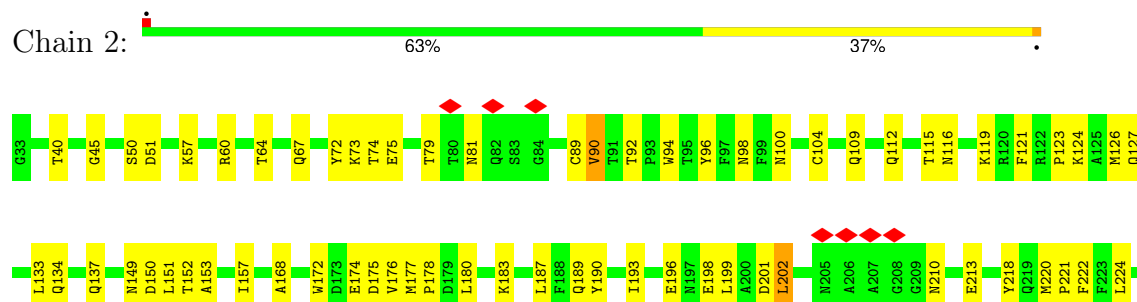


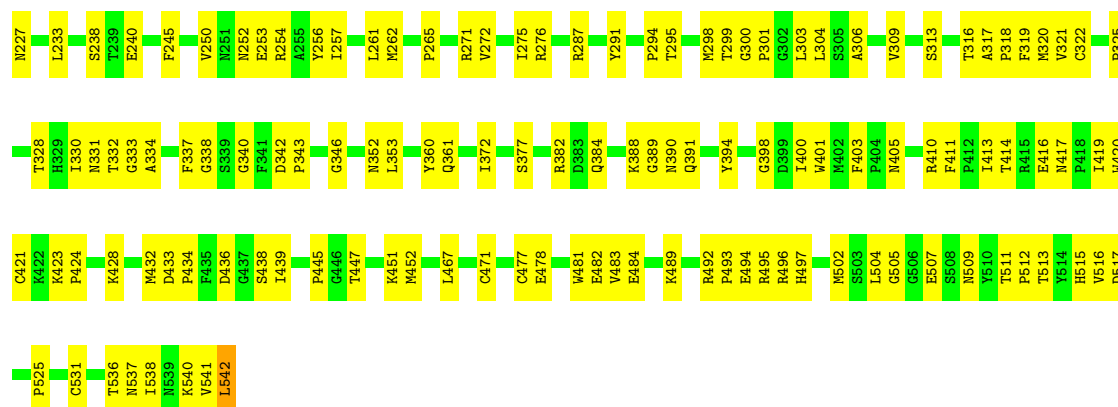


• Molecule 1: VP2



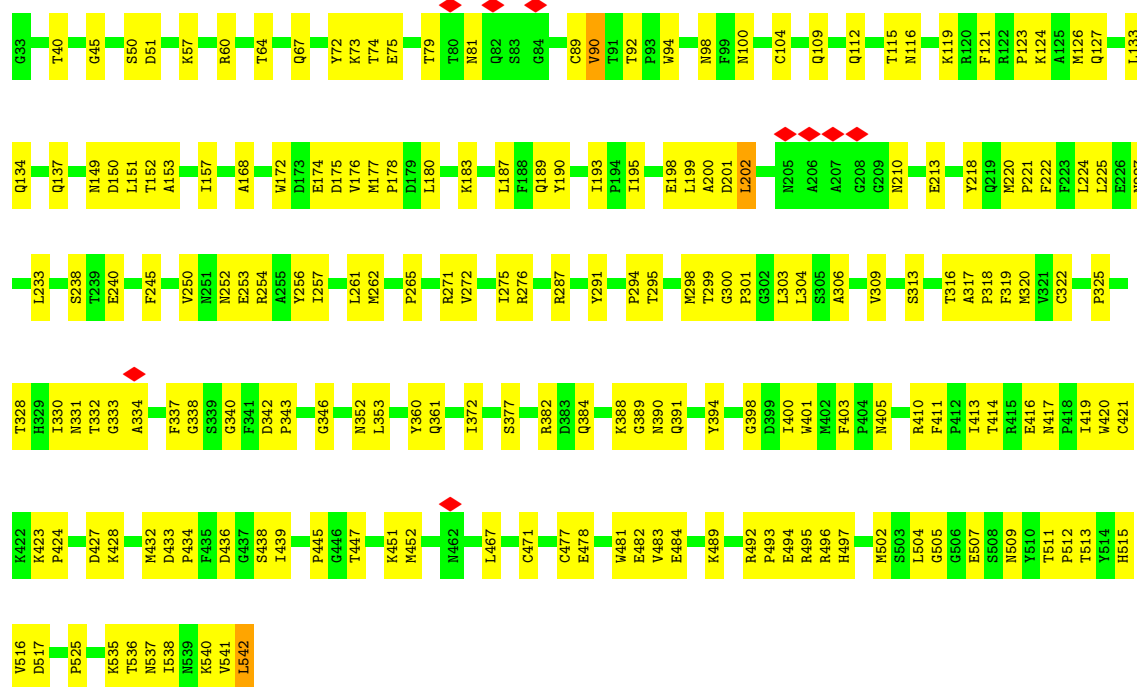
• Molecule 1: VP2





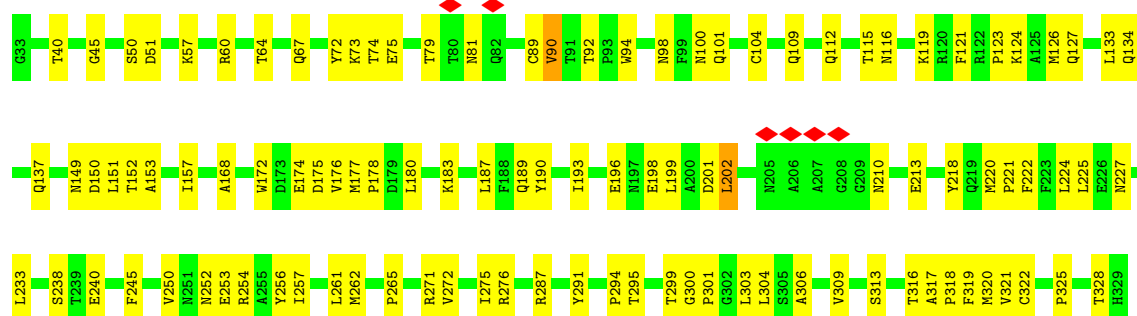
• Molecule 1: VP2

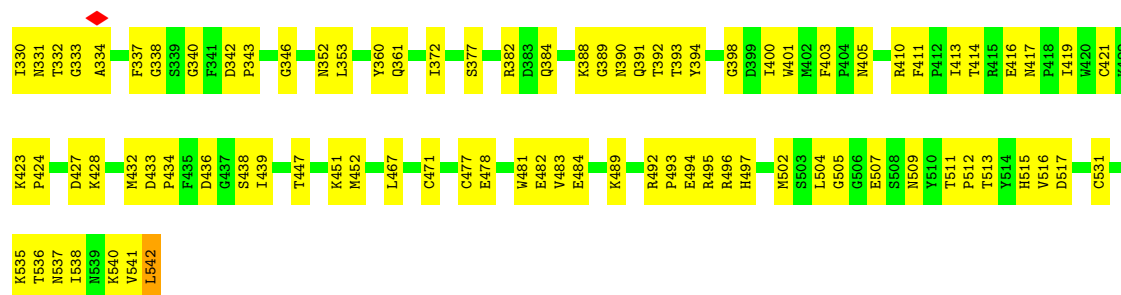
Chain 3: 62% 37%



• Molecule 1: VP2

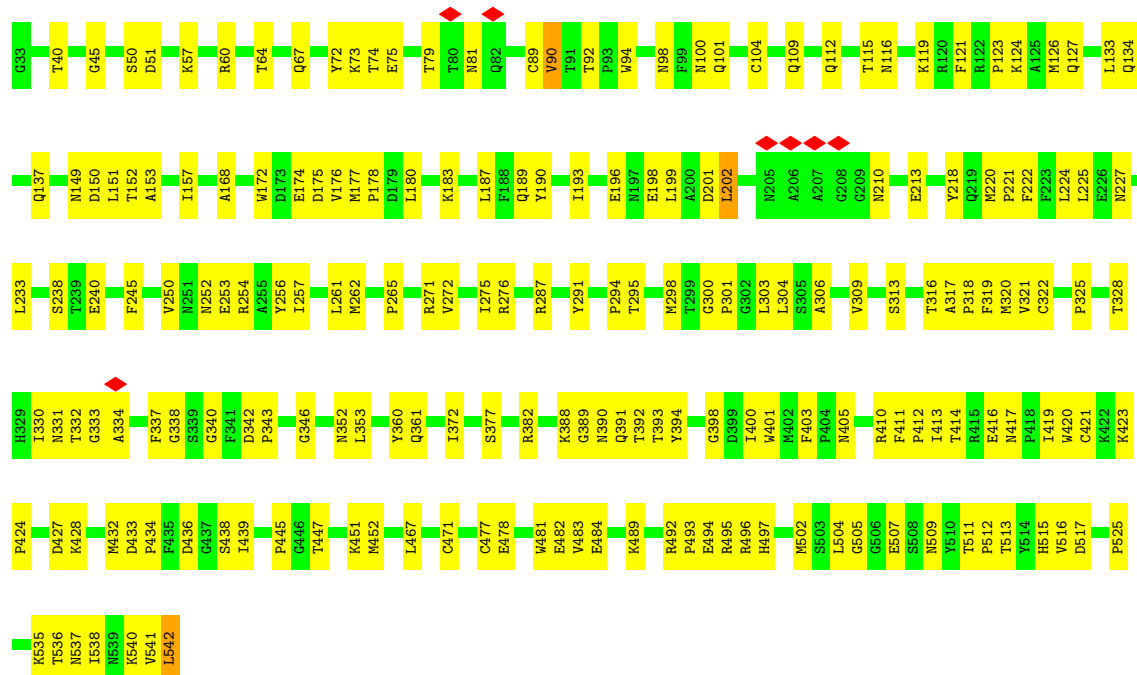
Chain 4: 62% 37%





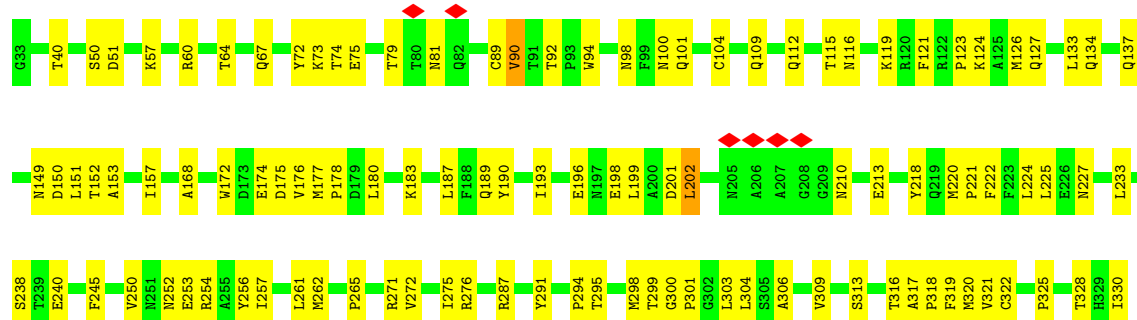
• Molecule 1: VP2

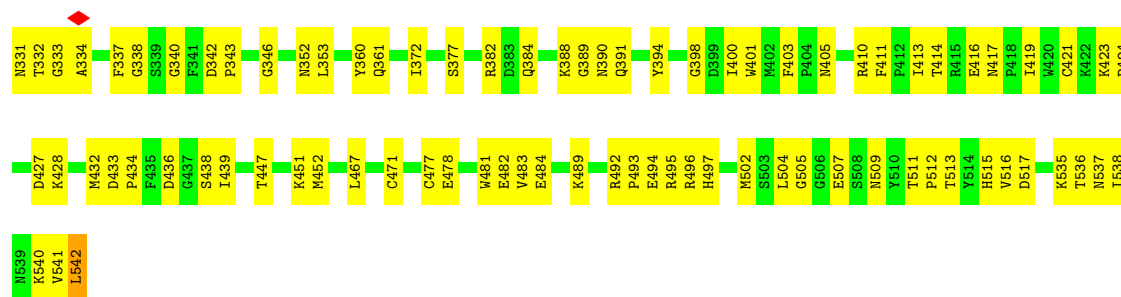
Chain 5: 62% 37%



• Molecule 1: VP2

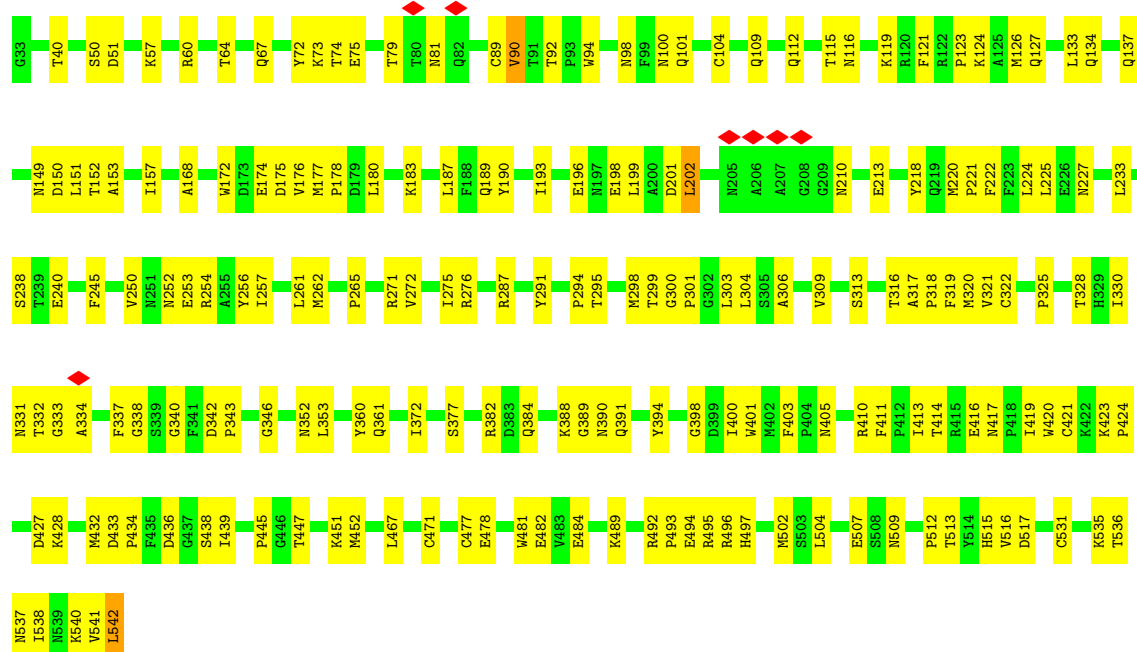
Chain 6: 63% 36%





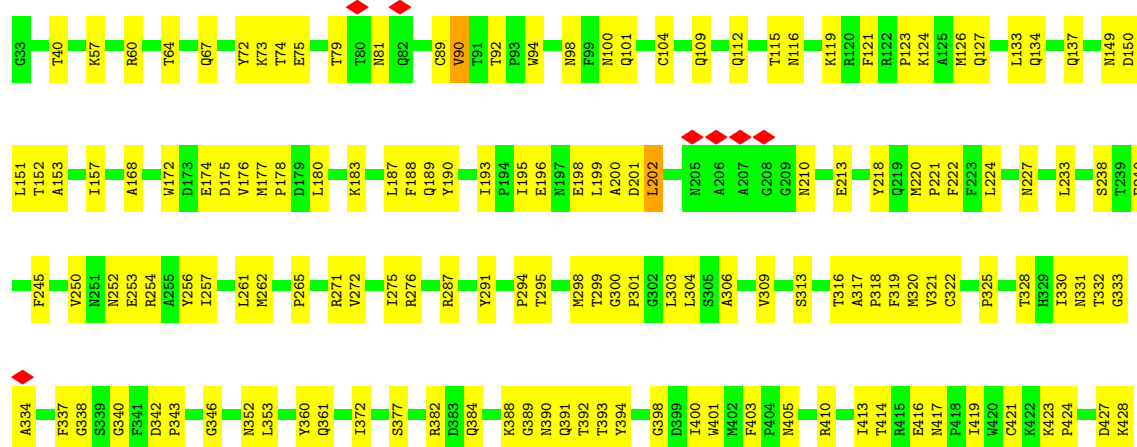
• Molecule 1: VP2

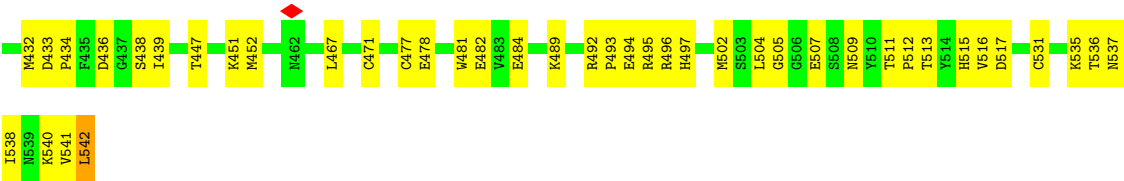
Chain 7: 63% 36%



• Molecule 1: VP2

Chain 8: 63% 37%





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	66471	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	64	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	18.001	Depositor
Minimum map value	-9.957	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.5	Depositor
Map size (Å)	435.96, 435.96, 435.96	wwPDB
Map dimensions	420, 420, 420	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.038, 1.038, 1.038	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.44	0/4168	0.53	0/5684
1	2	0.44	0/4168	0.53	0/5684
1	3	0.44	0/4168	0.53	0/5684
1	4	0.44	0/4168	0.53	0/5684
1	5	0.44	0/4168	0.53	0/5684
1	6	0.44	0/4168	0.53	0/5684
1	7	0.44	0/4168	0.53	0/5684
1	8	0.44	0/4168	0.53	0/5684
1	A	0.44	0/4168	0.53	0/5684
1	B	0.44	0/4168	0.53	0/5684
1	C	0.44	0/4168	0.53	0/5684
1	D	0.44	0/4168	0.53	0/5684
1	E	0.44	0/4168	0.53	0/5684
1	F	0.44	0/4168	0.53	0/5684
1	G	0.44	0/4168	0.53	0/5684
1	H	0.44	0/4168	0.53	0/5684
1	I	0.44	0/4168	0.53	0/5684
1	J	0.44	0/4168	0.53	0/5684
1	K	0.44	0/4168	0.53	0/5684
1	L	0.44	0/4168	0.53	0/5684
1	M	0.44	0/4168	0.53	0/5684
1	N	0.44	0/4168	0.53	0/5684
1	O	0.44	0/4168	0.53	0/5684
1	P	0.44	0/4168	0.53	0/5684
1	Q	0.44	0/4168	0.53	0/5684
1	R	0.44	0/4168	0.53	0/5684
1	S	0.44	0/4168	0.53	0/5684
1	T	0.44	0/4168	0.53	0/5684
1	U	0.44	0/4168	0.53	0/5684
1	V	0.44	0/4168	0.53	0/5684
1	W	0.44	0/4168	0.53	0/5684
1	X	0.44	0/4168	0.53	0/5684
1	Y	0.44	0/4168	0.53	0/5684
1	Z	0.44	0/4168	0.53	0/5684

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.44	0/4168	0.53	0/5684
1	b	0.44	0/4168	0.53	0/5684
1	c	0.44	0/4168	0.53	0/5684
1	d	0.44	0/4168	0.53	0/5684
1	e	0.44	0/4168	0.53	0/5684
1	f	0.44	0/4168	0.53	0/5684
1	g	0.44	0/4168	0.53	0/5684
1	h	0.44	0/4168	0.53	0/5684
1	i	0.44	0/4168	0.53	0/5684
1	j	0.44	0/4168	0.53	0/5684
1	k	0.44	0/4168	0.53	0/5684
1	l	0.44	0/4168	0.53	0/5684
1	m	0.44	0/4168	0.53	0/5684
1	n	0.44	0/4168	0.53	0/5684
1	o	0.44	0/4168	0.53	0/5684
1	p	0.44	0/4168	0.53	0/5684
1	q	0.44	0/4168	0.53	0/5684
1	r	0.44	0/4168	0.53	0/5684
1	s	0.44	0/4168	0.53	0/5684
1	t	0.44	0/4168	0.53	0/5684
1	u	0.44	0/4168	0.53	0/5684
1	v	0.44	0/4168	0.53	0/5684
1	w	0.44	0/4168	0.53	0/5684
1	x	0.44	0/4168	0.53	0/5684
1	y	0.44	0/4168	0.53	0/5684
1	z	0.44	0/4168	0.53	0/5684
All	All	0.44	0/250080	0.53	0/341040

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	4046	0	3855	177	0
1	2	4046	0	3855	176	0
1	3	4046	0	3855	181	0
1	4	4046	0	3855	178	0
1	5	4046	0	3855	181	0
1	6	4046	0	3855	176	0
1	7	4046	0	3855	178	0
1	8	4046	0	3855	175	0
1	A	4046	0	3855	176	0
1	B	4046	0	3855	176	0
1	C	4046	0	3855	175	0
1	D	4046	0	3855	174	0
1	E	4046	0	3855	173	0
1	F	4046	0	3855	173	0
1	G	4046	0	3855	172	0
1	H	4046	0	3855	179	0
1	I	4046	0	3855	173	0
1	J	4046	0	3855	174	0
1	K	4046	0	3855	179	0
1	L	4046	0	3855	174	0
1	M	4046	0	3855	174	0
1	N	4046	0	3855	177	0
1	O	4046	0	3855	179	0
1	P	4046	0	3855	170	0
1	Q	4046	0	3855	170	0
1	R	4046	0	3855	181	0
1	S	4046	0	3855	175	0
1	T	4046	0	3855	176	0
1	U	4046	0	3855	174	0
1	V	4046	0	3855	176	0
1	W	4046	0	3855	173	0
1	X	4046	0	3855	172	0
1	Y	4046	0	3855	174	0
1	Z	4046	0	3855	175	0
1	a	4046	0	3855	181	0
1	b	4046	0	3855	175	0
1	c	4046	0	3855	172	0
1	d	4046	0	3855	173	0
1	e	4046	0	3855	172	0
1	f	4046	0	3855	175	0
1	g	4046	0	3855	175	0
1	h	4046	0	3855	174	0
1	i	4046	0	3855	176	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	j	4046	0	3855	173	0
1	k	4046	0	3855	176	0
1	l	4046	0	3855	178	0
1	m	4046	0	3855	175	0
1	n	4046	0	3855	173	0
1	o	4046	0	3855	175	0
1	p	4046	0	3855	177	0
1	q	4046	0	3855	181	0
1	r	4046	0	3855	174	0
1	s	4046	0	3855	176	0
1	t	4046	0	3855	175	0
1	u	4046	0	3855	174	0
1	v	4046	0	3855	179	0
1	w	4046	0	3855	174	0
1	x	4046	0	3855	173	0
1	y	4046	0	3855	175	0
1	z	4046	0	3855	174	0
All	All	242760	0	231300	8034	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 17.

All (8034) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:424:PRO:HB3	1:Y:542:LEU:CD1	1.66	1.24
1:H:542:LEU:CD1	1:W:424:PRO:HB3	1.68	1.23
1:Z:542:LEU:CD1	1:4:424:PRO:HB3	1.69	1.23
1:B:542:LEU:CD1	1:J:424:PRO:HB3	1.69	1.23
1:K:424:PRO:HB3	1:8:542:LEU:CD1	1.69	1.23
1:M:424:PRO:HB3	1:b:542:LEU:CD1	1.69	1.23
1:R:424:PRO:HB3	1:U:542:LEU:CD1	1.69	1.23
1:q:424:PRO:HB3	1:s:542:LEU:CD1	1.69	1.23
1:1:542:LEU:CD1	1:2:424:PRO:HB3	1.69	1.23
1:D:424:PRO:HB3	1:P:542:LEU:CD1	1.69	1.23
1:f:542:LEU:CD1	1:h:424:PRO:HB3	1.69	1.23
1:j:542:LEU:CD1	1:k:424:PRO:HB3	1.69	1.23
1:5:542:LEU:CD1	1:6:424:PRO:HB3	1.69	1.23
1:C:424:PRO:HB3	1:M:542:LEU:CD1	1.69	1.23
1:S:542:LEU:CD1	1:U:424:PRO:HB3	1.69	1.23
1:r:542:LEU:CD1	1:s:424:PRO:HB3	1.69	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:424:PRO:HB3	1:n:542:LEU:CD1	1.69	1.22
1:d:542:LEU:CD1	1:l:424:PRO:HB3	1.69	1.22
1:f:424:PRO:HB3	1:g:542:LEU:CD1	1.69	1.22
1:g:424:PRO:HB3	1:h:542:LEU:CD1	1.69	1.22
1:C:542:LEU:CD1	1:b:424:PRO:HB3	1.69	1.22
1:c:542:LEU:CD1	1:o:424:PRO:HB3	1.69	1.22
1:o:542:LEU:CD1	1:p:424:PRO:HB3	1.69	1.22
1:V:424:PRO:HB3	1:X:542:LEU:CD1	1.69	1.22
1:X:424:PRO:HB3	1:e:542:LEU:CD1	1.69	1.22
1:i:424:PRO:HB3	1:k:542:LEU:CD1	1.68	1.22
1:D:542:LEU:CD1	1:N:424:PRO:HB3	1.68	1.22
1:K:542:LEU:CD1	1:a:424:PRO:HB3	1.69	1.22
1:Z:424:PRO:HB3	1:3:542:LEU:CD1	1.69	1.22
1:a:542:LEU:CD1	1:8:424:PRO:HB3	1.69	1.22
1:5:424:PRO:HB3	1:7:542:LEU:CD1	1.69	1.22
1:c:424:PRO:HB3	1:p:542:LEU:CD1	1.69	1.22
1:m:542:LEU:CD1	1:n:424:PRO:HB3	1.69	1.22
1:3:424:PRO:HB3	1:4:542:LEU:CD1	1.69	1.22
1:T:542:LEU:CD1	1:d:424:PRO:HB3	1.69	1.21
1:V:542:LEU:CD1	1:e:424:PRO:HB3	1.68	1.21
1:i:542:LEU:CD1	1:j:424:PRO:HB3	1.69	1.21
1:u:542:LEU:CD1	1:v:424:PRO:HB3	1.69	1.21
1:B:424:PRO:HB3	1:L:542:LEU:CD1	1.69	1.21
1:G:542:LEU:CD1	1:I:424:PRO:HB3	1.69	1.21
1:J:542:LEU:CD1	1:L:424:PRO:HB3	1.69	1.21
1:N:542:LEU:CD1	1:P:424:PRO:HB3	1.69	1.21
1:6:542:LEU:CD1	1:7:424:PRO:HB3	1.69	1.21
1:A:542:LEU:CD1	1:G:424:PRO:HB3	1.69	1.21
1:O:542:LEU:CD1	1:m:424:PRO:HB3	1.69	1.21
1:T:424:PRO:HB3	1:l:542:LEU:CD1	1.69	1.21
1:t:424:PRO:HB3	1:v:542:LEU:CD1	1.69	1.21
1:t:542:LEU:CD1	1:u:424:PRO:HB3	1.69	1.21
1:x:542:LEU:CD1	1:y:424:PRO:HB3	1.69	1.21
1:z:424:PRO:HB3	1:2:542:LEU:CD1	1.69	1.21
1:z:542:LEU:CD1	1:1:424:PRO:HB3	1.69	1.21
1:A:424:PRO:HB3	1:I:542:LEU:CD1	1.69	1.21
1:W:542:LEU:CD1	1:Y:424:PRO:HB3	1.68	1.21
1:F:424:PRO:HB3	1:Q:542:LEU:CD1	1.69	1.21
1:q:542:LEU:CD1	1:r:424:PRO:HB3	1.69	1.21
1:R:542:LEU:CD1	1:S:424:PRO:HB3	1.69	1.20
1:w:424:PRO:HB3	1:y:542:LEU:CD1	1.69	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:424:PRO:HB3	1:F:542:LEU:CD1	1.69	1.20
1:w:542:LEU:CD1	1:x:424:PRO:HB3	1.69	1.19
1:E:542:LEU:CD1	1:Q:424:PRO:HB3	1.69	1.19
1:E:542:LEU:HD11	1:Q:424:PRO:HB3	1.31	1.12
1:j:542:LEU:HD11	1:k:424:PRO:HB3	1.31	1.12
1:u:542:LEU:HD11	1:v:424:PRO:HB3	1.31	1.12
1:A:424:PRO:HB3	1:I:542:LEU:HD11	1.31	1.11
1:D:424:PRO:HB3	1:P:542:LEU:HD11	1.31	1.11
1:w:542:LEU:HD11	1:x:424:PRO:HB3	1.31	1.11
1:c:424:PRO:HB3	1:p:542:LEU:HD11	1.31	1.11
1:5:542:LEU:HD11	1:6:424:PRO:HB3	1.32	1.11
1:O:542:LEU:HD11	1:m:424:PRO:HB3	1.31	1.11
1:T:424:PRO:HB3	1:l:542:LEU:HD11	1.31	1.11
1:V:542:LEU:HD11	1:e:424:PRO:HB3	1.31	1.11
1:Z:542:LEU:HD11	1:4:424:PRO:HB3	1.31	1.11
1:H:542:LEU:HD11	1:W:424:PRO:HB3	1.32	1.11
1:H:424:PRO:HB3	1:Y:542:LEU:HD11	1.29	1.11
1:K:424:PRO:HB3	1:8:542:LEU:HD11	1.31	1.11
1:T:542:LEU:HD11	1:d:424:PRO:HB3	1.31	1.10
1:m:542:LEU:HD11	1:n:424:PRO:HB3	1.31	1.10
1:B:542:LEU:HD11	1:J:424:PRO:HB3	1.31	1.10
1:E:424:PRO:HB3	1:F:542:LEU:HD11	1.32	1.09
1:f:424:PRO:HB3	1:g:542:LEU:HD11	1.31	1.09
1:1:542:LEU:HD11	1:2:424:PRO:HB3	1.31	1.09
1:w:424:PRO:HB3	1:y:542:LEU:HD11	1.32	1.09
1:W:542:LEU:HD11	1:Y:424:PRO:HB3	1.31	1.09
1:C:542:LEU:HD11	1:b:424:PRO:HB3	1.31	1.08
1:M:424:PRO:HB3	1:b:542:LEU:HD11	1.32	1.08
1:g:424:PRO:HB3	1:h:542:LEU:HD11	1.32	1.08
1:i:542:LEU:HD11	1:j:424:PRO:HB3	1.31	1.08
1:r:542:LEU:HD11	1:s:424:PRO:HB3	1.31	1.08
1:C:424:PRO:HB3	1:M:542:LEU:HD11	1.32	1.08
1:X:424:PRO:HB3	1:e:542:LEU:HD11	1.32	1.08
1:c:542:LEU:HD11	1:o:424:PRO:HB3	1.32	1.08
1:3:424:PRO:HB3	1:4:542:LEU:HD11	1.31	1.08
1:K:542:LEU:HD11	1:a:424:PRO:HB3	1.31	1.08
1:S:542:LEU:HD11	1:U:424:PRO:HB3	1.31	1.08
1:t:424:PRO:HB3	1:v:542:LEU:HD11	1.32	1.08
1:N:542:LEU:HD11	1:P:424:PRO:HB3	1.31	1.08
1:f:542:LEU:HD11	1:h:424:PRO:HB3	1.32	1.08
1:5:424:PRO:HB3	1:7:542:LEU:HD11	1.31	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:542:LEU:HD11	1:G:424:PRO:HB3	1.32	1.07
1:R:424:PRO:HB3	1:U:542:LEU:HD11	1.31	1.07
1:i:424:PRO:HB3	1:k:542:LEU:HD11	1.31	1.07
1:B:424:PRO:HB3	1:L:542:LEU:HD11	1.31	1.07
1:a:542:LEU:HD11	1:8:424:PRO:HB3	1.31	1.07
1:d:542:LEU:HD11	1:l:424:PRO:HB3	1.32	1.06
1:F:424:PRO:HB3	1:Q:542:LEU:HD11	1.31	1.06
1:Z:424:PRO:HB3	1:3:542:LEU:HD11	1.32	1.06
1:q:424:PRO:HB3	1:s:542:LEU:HD11	1.31	1.06
1:t:542:LEU:HD11	1:u:424:PRO:HB3	1.31	1.06
1:D:542:LEU:HD11	1:N:424:PRO:HB3	1.31	1.06
1:z:542:LEU:HD11	1:1:424:PRO:HB3	1.31	1.06
1:6:542:LEU:HD11	1:7:424:PRO:HB3	1.31	1.06
1:G:542:LEU:HD11	1:I:424:PRO:HB3	1.31	1.06
1:O:424:PRO:HB3	1:n:542:LEU:HD11	1.31	1.06
1:x:542:LEU:HD11	1:y:424:PRO:HB3	1.31	1.06
1:q:542:LEU:HD11	1:r:424:PRO:HB3	1.31	1.06
1:z:424:PRO:HB3	1:2:542:LEU:HD11	1.31	1.06
1:J:542:LEU:HD11	1:L:424:PRO:HB3	1.31	1.05
1:R:542:LEU:HD11	1:S:424:PRO:HB3	1.31	1.05
1:o:542:LEU:HD11	1:p:424:PRO:HB3	1.32	1.03
1:V:424:PRO:HB3	1:X:542:LEU:HD11	1.32	1.02
1:Y:513:THR:O	1:Z:492:ARG:NH1	1.94	1.00
1:J:513:THR:O	1:K:492:ARG:NH1	1.96	0.99
1:q:492:ARG:NH1	1:x:513:THR:O	1.95	0.99
1:2:513:THR:O	1:4:492:ARG:NH1	1.96	0.99
1:Q:513:THR:O	1:R:492:ARG:NH1	1.95	0.99
1:A:492:ARG:NH1	1:F:513:THR:O	1.96	0.99
1:e:492:ARG:NH1	1:f:513:THR:O	1.96	0.99
1:h:492:ARG:NH1	1:k:513:THR:O	1.95	0.99
1:N:492:ARG:NH1	1:O:513:THR:O	1.96	0.99
1:b:513:THR:O	1:c:492:ARG:NH1	1.96	0.99
1:D:513:THR:O	1:M:492:ARG:NH1	1.95	0.99
1:i:492:ARG:NH1	1:l:513:THR:O	1.96	0.99
1:v:492:ARG:NH1	1:y:513:THR:O	1.96	0.99
1:S:492:ARG:NH1	1:T:513:THR:O	1.95	0.99
1:e:513:THR:O	1:f:492:ARG:NH1	1.96	0.99
1:m:513:THR:O	1:r:492:ARG:NH1	1.95	0.99
1:t:513:THR:O	1:5:492:ARG:NH1	1.95	0.99
1:G:513:THR:O	1:H:492:ARG:NH1	1.95	0.99
1:W:513:THR:O	1:X:492:ARG:NH1	1.95	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:492:ARG:NH1	1:c:513:THR:O	1.96	0.99
1:g:492:ARG:NH1	1:z:513:THR:O	1.96	0.99
1:p:492:ARG:NH1	1:s:513:THR:O	1.96	0.99
1:C:492:ARG:NH1	1:L:513:THR:O	1.96	0.99
1:C:513:THR:O	1:L:492:ARG:NH1	1.96	0.99
1:U:513:THR:O	1:V:492:ARG:NH1	1.96	0.99
1:7:513:THR:O	1:8:492:ARG:NH1	1.95	0.99
1:h:513:THR:O	1:k:492:ARG:NH1	1.96	0.98
1:t:492:ARG:NH1	1:5:513:THR:O	1.95	0.98
1:D:492:ARG:NH1	1:M:513:THR:O	1.96	0.98
1:G:492:ARG:NH1	1:H:513:THR:O	1.95	0.98
1:J:492:ARG:NH1	1:K:513:THR:O	1.95	0.98
1:N:513:THR:O	1:O:492:ARG:NH1	1.96	0.98
1:Q:492:ARG:NH1	1:R:513:THR:O	1.96	0.98
1:g:513:THR:O	1:z:492:ARG:NH1	1.96	0.98
1:u:492:ARG:NH1	1:1:513:THR:O	1.96	0.98
1:B:513:THR:O	1:I:492:ARG:NH1	1.96	0.98
1:d:513:THR:O	1:n:492:ARG:NH1	1.96	0.98
1:i:513:THR:O	1:l:492:ARG:NH1	1.96	0.98
1:q:513:THR:O	1:x:492:ARG:NH1	1.96	0.98
1:2:492:ARG:NH1	1:4:513:THR:O	1.96	0.98
1:E:513:THR:O	1:P:492:ARG:NH1	1.95	0.98
1:o:492:ARG:NH1	1:6:513:THR:O	1.95	0.98
1:u:513:THR:O	1:1:492:ARG:NH1	1.95	0.98
1:W:492:ARG:NH1	1:X:513:THR:O	1.96	0.98
1:d:492:ARG:NH1	1:n:513:THR:O	1.96	0.98
1:o:513:THR:O	1:6:492:ARG:NH1	1.96	0.98
1:p:513:THR:O	1:s:492:ARG:NH1	1.96	0.98
1:v:513:THR:O	1:y:492:ARG:NH1	1.96	0.98
1:B:492:ARG:NH1	1:I:513:THR:O	1.95	0.98
1:E:492:ARG:NH1	1:P:513:THR:O	1.96	0.98
1:U:492:ARG:NH1	1:V:513:THR:O	1.96	0.98
1:a:492:ARG:NH1	1:3:513:THR:O	1.96	0.98
1:a:513:THR:O	1:3:492:ARG:NH1	1.96	0.98
1:j:492:ARG:NH1	1:w:513:THR:O	1.95	0.98
1:j:513:THR:O	1:w:492:ARG:NH1	1.95	0.98
1:7:492:ARG:NH1	1:8:513:THR:O	1.95	0.98
1:A:513:THR:O	1:F:492:ARG:NH1	1.96	0.98
1:S:513:THR:O	1:T:492:ARG:NH1	1.96	0.97
1:m:492:ARG:NH1	1:r:513:THR:O	1.96	0.97
1:Y:492:ARG:NH1	1:Z:513:THR:O	1.97	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:424:PRO:HB3	1:Y:542:LEU:HD12	1.48	0.96
1:x:542:LEU:HD12	1:y:424:PRO:HB3	1.50	0.94
1:F:424:PRO:HB3	1:Q:542:LEU:HD12	1.50	0.94
1:R:424:PRO:HB3	1:U:542:LEU:HD12	1.50	0.94
1:S:542:LEU:HD12	1:U:424:PRO:HB3	1.50	0.94
1:q:424:PRO:HB3	1:s:542:LEU:HD12	1.50	0.94
1:r:542:LEU:HD12	1:s:424:PRO:HB3	1.50	0.94
1:z:542:LEU:HD12	1:l:424:PRO:HB3	1.50	0.94
1:W:542:LEU:HD12	1:Y:424:PRO:HB3	1.49	0.94
1:B:424:PRO:HB3	1:L:542:LEU:HD12	1.50	0.94
1:5:424:PRO:HB3	1:7:542:LEU:HD12	1.50	0.94
1:A:542:LEU:HD12	1:G:424:PRO:HB3	1.50	0.93
1:O:424:PRO:HB3	1:n:542:LEU:HD12	1.50	0.93
1:t:424:PRO:HB3	1:v:542:LEU:HD12	1.50	0.93
1:D:542:LEU:HD12	1:N:424:PRO:HB3	1.49	0.93
1:K:542:LEU:HD12	1:a:424:PRO:HB3	1.50	0.93
1:Z:542:LEU:HD12	1:4:424:PRO:HB3	1.50	0.93
1:i:424:PRO:HB3	1:k:542:LEU:HD12	1.49	0.93
1:3:424:PRO:HB3	1:4:542:LEU:HD12	1.50	0.93
1:d:542:LEU:HD12	1:l:424:PRO:HB3	1.50	0.93
1:K:424:PRO:HB3	1:8:542:LEU:HD12	1.50	0.93
1:N:542:LEU:HD12	1:P:424:PRO:HB3	1.50	0.93
1:i:542:LEU:HD12	1:j:424:PRO:HB3	1.50	0.93
1:6:542:LEU:HD12	1:7:424:PRO:HB3	1.50	0.93
1:j:542:LEU:HD12	1:k:424:PRO:HB3	1.50	0.93
1:D:424:PRO:HB3	1:P:542:LEU:HD12	1.50	0.93
1:T:542:LEU:HD12	1:d:424:PRO:HB3	1.50	0.93
1:O:542:LEU:HD12	1:m:424:PRO:HB3	1.50	0.93
1:m:542:LEU:HD12	1:n:424:PRO:HB3	1.50	0.93
1:C:542:LEU:HD12	1:b:424:PRO:HB3	1.50	0.92
1:f:424:PRO:HB3	1:g:542:LEU:HD12	1.49	0.92
1:C:424:PRO:HB3	1:M:542:LEU:HD12	1.50	0.92
1:E:542:LEU:HD12	1:Q:424:PRO:HB3	1.50	0.92
1:T:424:PRO:HB3	1:l:542:LEU:HD12	1.50	0.92
1:w:542:LEU:HD12	1:x:424:PRO:HB3	1.50	0.92
1:V:542:LEU:HD12	1:e:424:PRO:HB3	1.50	0.92
1:z:424:PRO:HB3	1:2:542:LEU:HD12	1.50	0.92
1:g:424:PRO:HB3	1:h:542:LEU:HD12	1.51	0.92
1:q:542:LEU:HD12	1:r:424:PRO:HB3	1.50	0.92
1:J:542:LEU:HD12	1:L:424:PRO:HB3	1.50	0.92
1:R:542:LEU:HD12	1:S:424:PRO:HB3	1.50	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:424:PRO:HB3	1:p:542:LEU:HD12	1.49	0.92
1:G:542:LEU:HD12	1:I:424:PRO:HB3	1.50	0.92
1:Z:424:PRO:HB3	1:3:542:LEU:HD12	1.50	0.91
1:a:542:LEU:HD12	1:8:424:PRO:HB3	1.50	0.91
1:o:542:LEU:HD12	1:p:424:PRO:HB3	1.50	0.91
1:t:542:LEU:HD12	1:u:424:PRO:HB3	1.50	0.91
1:V:424:PRO:HB3	1:X:542:LEU:HD12	1.51	0.91
1:E:424:PRO:HB3	1:F:542:LEU:HD12	1.50	0.91
1:B:542:LEU:HD12	1:J:424:PRO:HB3	1.50	0.91
1:w:424:PRO:HB3	1:y:542:LEU:HD12	1.50	0.91
1:H:542:LEU:HD12	1:W:424:PRO:HB3	1.49	0.90
1:c:542:LEU:HD12	1:o:424:PRO:HB3	1.50	0.90
1:1:542:LEU:HD12	1:2:424:PRO:HB3	1.50	0.90
1:X:424:PRO:HB3	1:e:542:LEU:HD12	1.50	0.90
1:C:492:ARG:NH2	1:b:218:TYR:O	2.05	0.90
1:f:218:TYR:O	1:g:492:ARG:NH2	2.05	0.90
1:5:542:LEU:HD12	1:6:424:PRO:HB3	1.50	0.90
1:M:424:PRO:HB3	1:b:542:LEU:HD12	1.50	0.90
1:W:492:ARG:NH2	1:Y:218:TYR:O	2.04	0.90
1:H:492:ARG:NH2	1:W:218:TYR:O	2.04	0.89
1:w:218:TYR:O	1:y:492:ARG:NH2	2.05	0.89
1:D:218:TYR:O	1:P:492:ARG:NH2	2.05	0.89
1:j:492:ARG:NH2	1:k:218:TYR:O	2.05	0.89
1:A:492:ARG:NH2	1:G:218:TYR:O	2.05	0.89
1:E:218:TYR:O	1:F:492:ARG:NH2	2.05	0.89
1:T:492:ARG:NH2	1:d:218:TYR:O	2.05	0.89
1:c:218:TYR:O	1:p:492:ARG:NH2	2.05	0.89
1:m:492:ARG:NH2	1:n:218:TYR:O	2.05	0.89
1:u:542:LEU:HD12	1:v:424:PRO:HB3	1.50	0.89
1:3:218:TYR:O	1:4:492:ARG:NH2	2.05	0.89
1:K:492:ARG:NH2	1:a:218:TYR:O	2.06	0.89
1:f:542:LEU:HD12	1:h:424:PRO:HB3	1.50	0.89
1:V:492:ARG:NH2	1:e:218:TYR:O	2.05	0.89
1:A:218:TYR:O	1:I:492:ARG:NH2	2.05	0.89
1:O:218:TYR:O	1:n:492:ARG:NH2	2.05	0.89
1:S:492:ARG:NH2	1:U:218:TYR:O	2.06	0.89
1:X:218:TYR:O	1:e:492:ARG:NH2	2.06	0.89
1:c:492:ARG:NH2	1:o:218:TYR:O	2.06	0.89
1:d:492:ARG:NH2	1:l:218:TYR:O	2.05	0.89
1:t:218:TYR:O	1:v:492:ARG:NH2	2.05	0.89
1:u:492:ARG:NH2	1:v:218:TYR:O	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:218:TYR:O	1:7:492:ARG:NH2	2.06	0.89
1:6:492:ARG:NH2	1:7:218:TYR:O	2.06	0.89
1:A:424:PRO:HB3	1:I:542:LEU:HD12	1.50	0.89
1:F:218:TYR:O	1:Q:492:ARG:NH2	2.05	0.89
1:K:60:ARG:NH1	1:K:178:PRO:O	2.06	0.89
1:V:218:TYR:O	1:X:492:ARG:NH2	2.06	0.89
1:W:60:ARG:NH1	1:W:178:PRO:O	2.06	0.89
1:Z:60:ARG:NH1	1:Z:178:PRO:O	2.06	0.89
1:a:60:ARG:NH1	1:a:178:PRO:O	2.06	0.89
1:r:492:ARG:NH2	1:s:218:TYR:O	2.06	0.89
1:3:60:ARG:NH1	1:3:178:PRO:O	2.06	0.89
1:8:60:ARG:NH1	1:8:178:PRO:O	2.06	0.89
1:R:218:TYR:O	1:U:492:ARG:NH2	2.05	0.89
1:m:60:ARG:NH1	1:m:178:PRO:O	2.06	0.89
1:x:492:ARG:NH2	1:y:218:TYR:O	2.05	0.89
1:z:492:ARG:NH2	1:1:218:TYR:O	2.05	0.89
1:4:60:ARG:NH1	1:4:178:PRO:O	2.06	0.89
1:6:60:ARG:NH1	1:6:178:PRO:O	2.06	0.89
1:A:60:ARG:NH1	1:A:178:PRO:O	2.06	0.89
1:B:218:TYR:O	1:L:492:ARG:NH2	2.05	0.89
1:C:218:TYR:O	1:M:492:ARG:NH2	2.06	0.89
1:T:60:ARG:NH1	1:T:178:PRO:O	2.06	0.89
1:U:60:ARG:NH1	1:U:178:PRO:O	2.06	0.89
1:b:60:ARG:NH1	1:b:178:PRO:O	2.06	0.89
1:f:60:ARG:NH1	1:f:178:PRO:O	2.06	0.89
1:s:60:ARG:NH1	1:s:178:PRO:O	2.06	0.89
1:7:60:ARG:NH1	1:7:178:PRO:O	2.06	0.89
1:N:60:ARG:NH1	1:N:178:PRO:O	2.06	0.88
1:O:60:ARG:NH1	1:O:178:PRO:O	2.06	0.88
1:g:60:ARG:NH1	1:g:178:PRO:O	2.06	0.88
1:i:60:ARG:NH1	1:i:178:PRO:O	2.06	0.88
1:l:60:ARG:NH1	1:l:178:PRO:O	2.06	0.88
1:o:492:ARG:NH2	1:p:218:TYR:O	2.06	0.88
1:q:218:TYR:O	1:s:492:ARG:NH2	2.06	0.88
1:v:60:ARG:NH1	1:v:178:PRO:O	2.06	0.88
1:C:60:ARG:NH1	1:C:178:PRO:O	2.06	0.88
1:R:60:ARG:NH1	1:R:178:PRO:O	2.06	0.88
1:Y:60:ARG:NH1	1:Y:178:PRO:O	2.06	0.88
1:a:492:ARG:NH2	1:8:218:TYR:O	2.05	0.88
1:c:60:ARG:NH1	1:c:178:PRO:O	2.06	0.88
1:g:218:TYR:O	1:h:492:ARG:NH2	2.06	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:60:ARG:NH1	1:q:178:PRO:O	2.06	0.88
1:e:60:ARG:NH1	1:e:178:PRO:O	2.06	0.88
1:t:60:ARG:NH1	1:t:178:PRO:O	2.06	0.88
1:G:60:ARG:NH1	1:G:178:PRO:O	2.06	0.88
1:5:492:ARG:NH2	1:6:218:TYR:O	2.06	0.88
1:R:492:ARG:NH2	1:S:218:TYR:O	2.06	0.88
1:d:60:ARG:NH1	1:d:178:PRO:O	2.06	0.88
1:n:60:ARG:NH1	1:n:178:PRO:O	2.06	0.88
1:r:60:ARG:NH1	1:r:178:PRO:O	2.06	0.88
1:Q:60:ARG:NH1	1:Q:178:PRO:O	2.06	0.88
1:S:60:ARG:NH1	1:S:178:PRO:O	2.06	0.88
1:X:60:ARG:NH1	1:X:178:PRO:O	2.06	0.88
1:Z:218:TYR:O	1:3:492:ARG:NH2	2.05	0.88
1:k:60:ARG:NH1	1:k:178:PRO:O	2.06	0.88
1:o:60:ARG:NH1	1:o:178:PRO:O	2.06	0.88
1:q:492:ARG:NH2	1:r:218:TYR:O	2.06	0.88
1:z:218:TYR:O	1:2:492:ARG:NH2	2.06	0.88
1:B:60:ARG:NH1	1:B:178:PRO:O	2.06	0.88
1:D:60:ARG:NH1	1:D:178:PRO:O	2.06	0.88
1:E:60:ARG:NH1	1:E:178:PRO:O	2.06	0.88
1:O:492:ARG:NH2	1:m:218:TYR:O	2.06	0.88
1:z:60:ARG:NH1	1:z:178:PRO:O	2.06	0.88
1:F:60:ARG:NH1	1:F:178:PRO:O	2.06	0.88
1:H:218:TYR:O	1:Y:492:ARG:NH2	2.07	0.88
1:J:492:ARG:NH2	1:L:218:TYR:O	2.06	0.88
1:L:60:ARG:NH1	1:L:178:PRO:O	2.06	0.88
1:w:60:ARG:NH1	1:w:178:PRO:O	2.06	0.88
1:x:60:ARG:NH1	1:x:178:PRO:O	2.06	0.88
1:D:492:ARG:NH2	1:N:218:TYR:O	2.06	0.88
1:P:60:ARG:NH1	1:P:178:PRO:O	2.06	0.88
1:T:218:TYR:O	1:l:492:ARG:NH2	2.06	0.88
1:V:60:ARG:NH1	1:V:178:PRO:O	2.06	0.88
1:h:60:ARG:NH1	1:h:178:PRO:O	2.06	0.88
1:y:60:ARG:NH1	1:y:178:PRO:O	2.06	0.88
1:1:60:ARG:NH1	1:1:178:PRO:O	2.06	0.88
1:1:492:ARG:NH2	1:2:218:TYR:O	2.06	0.88
1:B:492:ARG:NH2	1:J:218:TYR:O	2.06	0.88
1:E:492:ARG:NH2	1:Q:218:TYR:O	2.06	0.88
1:H:60:ARG:NH1	1:H:178:PRO:O	2.06	0.88
1:J:60:ARG:NH1	1:J:178:PRO:O	2.06	0.88
1:t:492:ARG:NH2	1:u:218:TYR:O	2.06	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:60:ARG:NH1	1:5:178:PRO:O	2.06	0.88
1:G:492:ARG:NH2	1:I:218:TYR:O	2.06	0.87
1:M:60:ARG:NH1	1:M:178:PRO:O	2.06	0.87
1:i:218:TYR:O	1:k:492:ARG:NH2	2.06	0.87
1:p:60:ARG:NH1	1:p:178:PRO:O	2.06	0.87
1:w:492:ARG:NH2	1:x:218:TYR:O	2.06	0.87
1:N:492:ARG:NH2	1:P:218:TYR:O	2.06	0.87
1:j:60:ARG:NH1	1:j:178:PRO:O	2.06	0.87
1:u:60:ARG:NH1	1:u:178:PRO:O	2.06	0.87
1:2:60:ARG:NH1	1:2:178:PRO:O	2.06	0.87
1:i:492:ARG:NH2	1:j:218:TYR:O	2.06	0.87
1:I:60:ARG:NH1	1:I:178:PRO:O	2.06	0.87
1:f:492:ARG:NH2	1:h:218:TYR:O	2.06	0.87
1:M:218:TYR:O	1:b:492:ARG:NH2	2.06	0.87
1:Z:492:ARG:NH2	1:4:218:TYR:O	2.06	0.87
1:K:218:TYR:O	1:8:492:ARG:NH2	2.06	0.87
1:H:424:PRO:CB	1:Y:542:LEU:CD1	2.55	0.83
1:q:424:PRO:CB	1:s:542:LEU:CD1	2.57	0.82
1:F:74:THR:HG22	1:F:90:VAL:HB	1.62	0.82
1:o:74:THR:HG22	1:o:90:VAL:HB	1.62	0.82
1:q:74:THR:HG22	1:q:90:VAL:HB	1.62	0.82
1:y:74:THR:HG22	1:y:90:VAL:HB	1.62	0.82
1:X:74:THR:HG22	1:X:90:VAL:HB	1.62	0.82
1:K:424:PRO:CB	1:8:542:LEU:CD1	2.57	0.82
1:R:74:THR:HG22	1:R:90:VAL:HB	1.62	0.82
1:a:74:THR:HG22	1:a:90:VAL:HB	1.62	0.82
1:5:74:THR:HG22	1:5:90:VAL:HB	1.62	0.82
1:H:74:THR:HG22	1:H:90:VAL:HB	1.62	0.82
1:P:74:THR:HG22	1:P:90:VAL:HB	1.62	0.82
1:Y:149:ASN:ND2	1:4:152:THR:OG1	2.12	0.82
1:Z:542:LEU:CD1	1:4:424:PRO:CB	2.57	0.82
1:j:74:THR:HG22	1:j:90:VAL:HB	1.62	0.82
1:s:74:THR:HG22	1:s:90:VAL:HB	1.62	0.82
1:O:74:THR:HG22	1:O:90:VAL:HB	1.62	0.81
1:V:74:THR:HG22	1:V:90:VAL:HB	1.62	0.81
1:l:74:THR:HG22	1:l:90:VAL:HB	1.62	0.81
1:u:542:LEU:CD1	1:v:424:PRO:CB	2.57	0.81
1:3:74:THR:HG22	1:3:90:VAL:HB	1.62	0.81
1:A:424:PRO:CB	1:I:542:LEU:CD1	2.57	0.81
1:G:149:ASN:ND2	1:W:152:THR:OG1	2.13	0.81
1:T:424:PRO:CB	1:l:542:LEU:CD1	2.57	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:74:THR:HG22	1:U:90:VAL:HB	1.62	0.81
1:f:74:THR:HG22	1:f:90:VAL:HB	1.62	0.81
1:I:74:THR:HG22	1:I:90:VAL:HB	1.62	0.81
1:K:74:THR:HG22	1:K:90:VAL:HB	1.62	0.81
1:M:74:THR:HG22	1:M:90:VAL:HB	1.62	0.81
1:O:542:LEU:CD1	1:m:424:PRO:CB	2.57	0.81
1:S:74:THR:HG22	1:S:90:VAL:HB	1.62	0.81
1:X:152:THR:OG1	1:f:149:ASN:ND2	2.13	0.81
1:b:74:THR:HG22	1:b:90:VAL:HB	1.62	0.81
1:h:74:THR:HG22	1:h:90:VAL:HB	1.62	0.81
1:p:74:THR:HG22	1:p:90:VAL:HB	1.62	0.81
1:r:74:THR:HG22	1:r:90:VAL:HB	1.62	0.81
1:z:424:PRO:CB	1:2:542:LEU:CD1	2.57	0.81
1:4:74:THR:HG22	1:4:90:VAL:HB	1.62	0.81
1:G:542:LEU:CD1	1:I:424:PRO:CB	2.57	0.81
1:J:542:LEU:CD1	1:L:424:PRO:CB	2.57	0.81
1:S:542:LEU:CD1	1:U:424:PRO:CB	2.57	0.81
1:b:149:ASN:ND2	1:o:152:THR:OG1	2.14	0.81
1:q:149:ASN:ND2	1:y:152:THR:OG1	2.14	0.81
1:t:149:ASN:ND2	1:6:152:THR:OG1	2.14	0.81
1:u:74:THR:HG22	1:u:90:VAL:HB	1.62	0.81
1:I:149:ASN:ND2	1:J:152:THR:OG1	2.14	0.81
1:O:152:THR:OG1	1:d:149:ASN:ND2	2.14	0.81
1:R:152:THR:OG1	1:V:149:ASN:ND2	2.14	0.81
1:Y:74:THR:HG22	1:Y:90:VAL:HB	1.62	0.81
1:Z:152:THR:OG1	1:a:149:ASN:ND2	2.14	0.81
1:d:74:THR:HG22	1:d:90:VAL:HB	1.62	0.81
1:e:149:ASN:ND2	1:h:152:THR:OG1	2.14	0.81
1:n:74:THR:HG22	1:n:90:VAL:HB	1.62	0.81
1:r:542:LEU:CD1	1:s:424:PRO:CB	2.57	0.81
1:t:542:LEU:CD1	1:u:424:PRO:CB	2.57	0.81
1:1:74:THR:HG22	1:1:90:VAL:HB	1.62	0.81
1:A:149:ASN:ND2	1:E:152:THR:OG1	2.13	0.81
1:F:152:THR:OG1	1:R:149:ASN:ND2	2.14	0.81
1:H:542:LEU:CD1	1:W:424:PRO:CB	2.57	0.81
1:L:149:ASN:ND2	1:b:152:THR:OG1	2.14	0.81
1:M:152:THR:OG1	1:c:149:ASN:ND2	2.14	0.81
1:V:152:THR:OG1	1:W:149:ASN:ND2	2.14	0.81
1:X:149:ASN:ND2	1:Y:152:THR:OG1	2.13	0.81
1:f:152:THR:OG1	1:z:149:ASN:ND2	2.14	0.81
1:l:152:THR:OG1	1:n:149:ASN:ND2	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:149:ASN:ND2	1:2:152:THR:OG1	2.14	0.81
1:3:149:ASN:ND2	1:8:152:THR:OG1	2.14	0.81
1:5:424:PRO:CB	1:7:542:LEU:CD1	2.57	0.81
1:7:74:THR:HG22	1:7:90:VAL:HB	1.62	0.81
1:B:74:THR:HG22	1:B:90:VAL:HB	1.62	0.81
1:C:152:THR:OG1	1:D:149:ASN:ND2	2.13	0.81
1:F:149:ASN:ND2	1:G:152:THR:OG1	2.14	0.81
1:O:424:PRO:CB	1:n:542:LEU:CD1	2.57	0.81
1:S:149:ASN:ND2	1:d:152:THR:OG1	2.14	0.81
1:p:149:ASN:ND2	1:q:152:THR:OG1	2.14	0.81
1:t:152:THR:OG1	1:y:149:ASN:ND2	2.14	0.81
1:N:542:LEU:CD1	1:P:424:PRO:CB	2.57	0.81
1:n:152:THR:OG1	1:r:149:ASN:ND2	2.14	0.81
1:r:152:THR:OG1	1:x:149:ASN:ND2	2.14	0.81
1:v:149:ASN:ND2	1:w:152:THR:OG1	2.14	0.81
1:z:74:THR:HG22	1:z:90:VAL:HB	1.62	0.81
1:L:74:THR:HG22	1:L:90:VAL:HB	1.62	0.81
1:T:542:LEU:CD1	1:d:424:PRO:CB	2.57	0.81
1:d:542:LEU:CD1	1:l:424:PRO:CB	2.57	0.81
1:g:152:THR:OG1	1:k:149:ASN:ND2	2.13	0.81
1:p:152:THR:OG1	1:6:149:ASN:ND2	2.14	0.81
1:G:74:THR:HG22	1:G:90:VAL:HB	1.62	0.81
1:K:149:ASN:ND2	1:L:152:THR:OG1	2.14	0.81
1:Q:149:ASN:ND2	1:S:152:THR:OG1	2.14	0.81
1:i:542:LEU:CD1	1:j:424:PRO:CB	2.57	0.81
1:m:542:LEU:CD1	1:n:424:PRO:CB	2.57	0.81
1:U:149:ASN:ND2	1:e:152:THR:OG1	2.14	0.80
1:g:149:ASN:ND2	1:l:152:THR:OG1	2.14	0.80
1:o:542:LEU:CD1	1:p:424:PRO:CB	2.58	0.80
1:t:74:THR:HG22	1:t:90:VAL:HB	1.62	0.80
1:B:152:THR:OG1	1:C:149:ASN:ND2	2.14	0.80
1:E:74:THR:HG22	1:E:90:VAL:HB	1.62	0.80
1:V:424:PRO:CB	1:X:542:LEU:CD1	2.58	0.80
1:j:149:ASN:ND2	1:x:152:THR:OG1	2.14	0.80
1:j:152:THR:OG1	1:l:149:ASN:ND2	2.13	0.80
1:w:74:THR:HG22	1:w:90:VAL:HB	1.62	0.80
1:z:152:THR:OG1	1:4:149:ASN:ND2	2.14	0.80
1:M:424:PRO:CB	1:b:542:LEU:CD1	2.57	0.80
1:O:149:ASN:ND2	1:P:152:THR:OG1	2.13	0.80
1:P:149:ASN:ND2	1:Q:152:THR:OG1	2.14	0.80
1:T:74:THR:HG22	1:T:90:VAL:HB	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:152:THR:OG1	1:s:149:ASN:ND2	2.14	0.80
1:5:542:LEU:CD1	1:6:424:PRO:CB	2.57	0.80
1:h:149:ASN:ND2	1:i:152:THR:OG1	2.14	0.80
1:o:149:ASN:ND2	1:7:152:THR:OG1	2.14	0.80
1:u:152:THR:OG1	1:5:149:ASN:ND2	2.14	0.80
1:B:424:PRO:CB	1:L:542:LEU:CD1	2.57	0.80
1:H:152:THR:OG1	1:Z:149:ASN:ND2	2.13	0.80
1:K:152:THR:OG1	1:7:149:ASN:ND2	2.14	0.80
1:f:542:LEU:CD1	1:h:424:PRO:CB	2.57	0.80
1:5:152:THR:OG1	1:8:149:ASN:ND2	2.13	0.80
1:D:74:THR:HG22	1:D:90:VAL:HB	1.62	0.80
1:M:149:ASN:ND2	1:N:152:THR:OG1	2.14	0.80
1:k:152:THR:OG1	1:w:149:ASN:ND2	2.14	0.80
1:m:74:THR:HG22	1:m:90:VAL:HB	1.62	0.80
1:A:74:THR:HG22	1:A:90:VAL:HB	1.62	0.80
1:D:152:THR:OG1	1:E:149:ASN:ND2	2.14	0.80
1:N:74:THR:HG22	1:N:90:VAL:HB	1.62	0.80
1:T:149:ASN:ND2	1:U:152:THR:OG1	2.14	0.80
1:Z:74:THR:HG22	1:Z:90:VAL:HB	1.62	0.80
1:g:74:THR:HG22	1:g:90:VAL:HB	1.62	0.80
1:v:74:THR:HG22	1:v:90:VAL:HB	1.62	0.80
1:v:152:THR:OG1	1:1:149:ASN:ND2	2.14	0.80
1:z:542:LEU:CD1	1:1:424:PRO:CB	2.57	0.80
1:8:74:THR:HG22	1:8:90:VAL:HB	1.62	0.80
1:C:74:THR:HG22	1:C:90:VAL:HB	1.62	0.80
1:J:74:THR:HG22	1:J:90:VAL:HB	1.62	0.80
1:M:276:ARG:HD2	1:M:391:GLN:HE21	1.47	0.80
1:Q:74:THR:HG22	1:Q:90:VAL:HB	1.62	0.80
1:i:74:THR:HG22	1:i:90:VAL:HB	1.62	0.80
1:k:74:THR:HG22	1:k:90:VAL:HB	1.62	0.80
1:m:149:ASN:ND2	1:s:152:THR:OG1	2.14	0.80
1:1:542:LEU:CD1	1:2:424:PRO:CB	2.57	0.80
1:B:542:LEU:CD1	1:J:424:PRO:CB	2.57	0.80
1:H:149:ASN:ND2	1:I:152:THR:OG1	2.14	0.80
1:I:276:ARG:HD2	1:I:391:GLN:HE21	1.47	0.80
1:c:74:THR:HG22	1:c:90:VAL:HB	1.62	0.80
1:e:74:THR:HG22	1:e:90:VAL:HB	1.62	0.80
1:u:276:ARG:HD2	1:u:391:GLN:HE21	1.47	0.80
1:x:74:THR:HG22	1:x:90:VAL:HB	1.62	0.80
1:2:74:THR:HG22	1:2:90:VAL:HB	1.62	0.80
1:2:149:ASN:ND2	1:3:152:THR:OG1	2.14	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:149:ASN:ND2	1:a:152:THR:OG1	2.14	0.80
1:L:276:ARG:HD2	1:L:391:GLN:HE21	1.47	0.80
1:h:276:ARG:HD2	1:h:391:GLN:HE21	1.47	0.80
1:z:276:ARG:HD2	1:z:391:GLN:HE21	1.47	0.80
1:E:276:ARG:HD2	1:E:391:GLN:HE21	1.47	0.79
1:c:424:PRO:CB	1:p:542:LEU:CD1	2.57	0.79
1:i:424:PRO:CB	1:k:542:LEU:CD1	2.56	0.79
1:N:149:ASN:ND2	1:m:152:THR:OG1	2.14	0.79
1:T:152:THR:OG1	1:i:149:ASN:ND2	2.14	0.79
1:W:74:THR:HG22	1:W:90:VAL:HB	1.62	0.79
1:A:152:THR:OG1	1:B:149:ASN:ND2	2.14	0.79
1:K:276:ARG:HD2	1:K:391:GLN:HE21	1.47	0.79
1:V:542:LEU:CD1	1:e:424:PRO:CB	2.57	0.79
1:o:276:ARG:HD2	1:o:391:GLN:HE21	1.47	0.79
1:w:276:ARG:HD2	1:w:391:GLN:HE21	1.47	0.79
1:6:74:THR:HG22	1:6:90:VAL:HB	1.62	0.79
1:C:276:ARG:HD2	1:C:391:GLN:HE21	1.47	0.79
1:X:276:ARG:HD2	1:X:391:GLN:HE21	1.47	0.79
1:f:276:ARG:HD2	1:f:391:GLN:HE21	1.47	0.79
1:q:276:ARG:HD2	1:q:391:GLN:HE21	1.47	0.79
1:3:276:ARG:HD2	1:3:391:GLN:HE21	1.47	0.79
1:D:542:LEU:CD1	1:N:424:PRO:CB	2.56	0.79
1:a:276:ARG:HD2	1:a:391:GLN:HE21	1.47	0.79
1:4:276:ARG:HD2	1:4:391:GLN:HE21	1.47	0.79
1:b:276:ARG:HD2	1:b:391:GLN:HE21	1.47	0.79
1:g:276:ARG:HD2	1:g:391:GLN:HE21	1.47	0.79
1:R:276:ARG:HD2	1:R:391:GLN:HE21	1.47	0.79
1:P:276:ARG:HD2	1:P:391:GLN:HE21	1.47	0.79
1:V:276:ARG:HD2	1:V:391:GLN:HE21	1.47	0.79
1:j:276:ARG:HD2	1:j:391:GLN:HE21	1.47	0.79
1:A:276:ARG:HD2	1:A:391:GLN:HE21	1.47	0.79
1:W:542:LEU:CD1	1:Y:424:PRO:CB	2.56	0.79
1:Z:276:ARG:HD2	1:Z:391:GLN:HE21	1.47	0.79
1:1:276:ARG:HD2	1:1:391:GLN:HE21	1.47	0.79
1:5:276:ARG:HD2	1:5:391:GLN:HE21	1.47	0.79
1:6:542:LEU:CD1	1:7:424:PRO:CB	2.57	0.79
1:B:276:ARG:HD2	1:B:391:GLN:HE21	1.47	0.79
1:W:276:ARG:HD2	1:W:391:GLN:HE21	1.47	0.79
1:p:276:ARG:HD2	1:p:391:GLN:HE21	1.47	0.79
1:H:276:ARG:HD2	1:H:391:GLN:HE21	1.47	0.78
1:t:276:ARG:HD2	1:t:391:GLN:HE21	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:276:ARG:HD2	1:6:391:GLN:HE21	1.47	0.78
1:8:276:ARG:HD2	1:8:391:GLN:HE21	1.47	0.78
1:A:542:LEU:CD1	1:G:424:PRO:CB	2.57	0.78
1:e:276:ARG:HD2	1:e:391:GLN:HE21	1.47	0.78
1:t:424:PRO:CB	1:v:542:LEU:CD1	2.57	0.78
1:v:276:ARG:HD2	1:v:391:GLN:HE21	1.47	0.78
1:w:424:PRO:CB	1:y:542:LEU:CD1	2.57	0.78
1:E:424:PRO:CB	1:F:542:LEU:CD1	2.57	0.78
1:G:276:ARG:HD2	1:G:391:GLN:HE21	1.47	0.78
1:Q:276:ARG:HD2	1:Q:391:GLN:HE21	1.47	0.78
1:c:276:ARG:HD2	1:c:391:GLN:HE21	1.47	0.78
1:k:276:ARG:HD2	1:k:391:GLN:HE21	1.47	0.78
1:D:276:ARG:HD2	1:D:391:GLN:HE21	1.47	0.78
1:n:276:ARG:HD2	1:n:391:GLN:HE21	1.47	0.78
1:x:276:ARG:HD2	1:x:391:GLN:HE21	1.47	0.78
1:Y:276:ARG:HD2	1:Y:391:GLN:HE21	1.47	0.78
1:d:276:ARG:HD2	1:d:391:GLN:HE21	1.47	0.78
1:x:542:LEU:CD1	1:y:424:PRO:CB	2.57	0.78
1:7:276:ARG:HD2	1:7:391:GLN:HE21	1.47	0.78
1:N:276:ARG:HD2	1:N:391:GLN:HE21	1.47	0.78
1:F:424:PRO:CB	1:Q:542:LEU:CD1	2.57	0.78
1:J:276:ARG:HD2	1:J:391:GLN:HE21	1.47	0.78
1:O:276:ARG:HD2	1:O:391:GLN:HE21	1.47	0.78
1:c:542:LEU:CD1	1:o:424:PRO:CB	2.57	0.78
1:w:542:LEU:CD1	1:x:424:PRO:CB	2.57	0.78
1:D:424:PRO:CB	1:P:542:LEU:CD1	2.57	0.77
1:E:542:LEU:CD1	1:Q:424:PRO:CB	2.57	0.77
1:X:424:PRO:CB	1:e:542:LEU:CD1	2.57	0.77
1:m:276:ARG:HD2	1:m:391:GLN:HE21	1.47	0.77
1:F:276:ARG:HD2	1:F:391:GLN:HE21	1.47	0.77
1:K:542:LEU:CD1	1:a:424:PRO:CB	2.57	0.77
1:2:276:ARG:HD2	1:2:391:GLN:HE21	1.47	0.77
1:i:276:ARG:HD2	1:i:391:GLN:HE21	1.47	0.77
1:l:276:ARG:HD2	1:l:391:GLN:HE21	1.47	0.77
1:3:424:PRO:CB	1:4:542:LEU:CD1	2.57	0.77
1:T:276:ARG:HD2	1:T:391:GLN:HE21	1.47	0.77
1:U:276:ARG:HD2	1:U:391:GLN:HE21	1.47	0.77
1:s:276:ARG:HD2	1:s:391:GLN:HE21	1.47	0.77
1:j:542:LEU:CD1	1:k:424:PRO:CB	2.57	0.77
1:r:276:ARG:HD2	1:r:391:GLN:HE21	1.47	0.77
1:f:424:PRO:CB	1:g:542:LEU:CD1	2.57	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:542:LEU:CD1	1:r:424:PRO:CB	2.57	0.77
1:y:276:ARG:HD2	1:y:391:GLN:HE21	1.47	0.77
1:S:276:ARG:HD2	1:S:391:GLN:HE21	1.47	0.77
1:C:542:LEU:CD1	1:b:424:PRO:CB	2.57	0.77
1:R:542:LEU:CD1	1:S:424:PRO:CB	2.57	0.77
1:Z:424:PRO:CB	1:3:542:LEU:CD1	2.57	0.77
1:a:542:LEU:CD1	1:8:424:PRO:CB	2.57	0.77
1:C:424:PRO:CB	1:M:542:LEU:CD1	2.58	0.76
1:g:424:PRO:CB	1:h:542:LEU:CD1	2.58	0.75
1:R:424:PRO:CB	1:U:542:LEU:CD1	2.57	0.75
1:C:79:THR:HG23	1:C:81:ASN:H	1.52	0.75
1:I:79:THR:HG23	1:I:81:ASN:H	1.52	0.75
1:J:79:THR:HG23	1:J:81:ASN:H	1.52	0.75
1:M:79:THR:HG23	1:M:81:ASN:H	1.52	0.75
1:W:79:THR:HG23	1:W:81:ASN:H	1.52	0.75
1:u:79:THR:HG23	1:u:81:ASN:H	1.52	0.75
1:3:79:THR:HG23	1:3:81:ASN:H	1.52	0.75
1:a:79:THR:HG23	1:a:81:ASN:H	1.52	0.75
1:c:79:THR:HG23	1:c:81:ASN:H	1.52	0.75
1:g:79:THR:HG23	1:g:81:ASN:H	1.52	0.75
1:h:79:THR:HG23	1:h:81:ASN:H	1.52	0.75
1:x:79:THR:HG23	1:x:81:ASN:H	1.52	0.75
1:2:79:THR:HG23	1:2:81:ASN:H	1.52	0.75
1:Q:79:THR:HG23	1:Q:81:ASN:H	1.52	0.75
1:e:79:THR:HG23	1:e:81:ASN:H	1.52	0.75
1:y:79:THR:HG23	1:y:81:ASN:H	1.52	0.75
1:6:79:THR:HG23	1:6:81:ASN:H	1.52	0.75
1:F:79:THR:HG23	1:F:81:ASN:H	1.52	0.75
1:l:79:THR:HG23	1:l:81:ASN:H	1.52	0.75
1:O:79:THR:HG23	1:O:81:ASN:H	1.52	0.74
1:R:79:THR:HG23	1:R:81:ASN:H	1.52	0.74
1:w:79:THR:HG23	1:w:81:ASN:H	1.52	0.74
1:E:79:THR:HG23	1:E:81:ASN:H	1.52	0.74
1:K:414:THR:N	1:K:417:ASN:OD1	2.21	0.74
1:i:79:THR:HG23	1:i:81:ASN:H	1.52	0.74
1:q:79:THR:HG23	1:q:81:ASN:H	1.52	0.74
1:4:414:THR:N	1:4:417:ASN:OD1	2.21	0.74
1:N:79:THR:HG23	1:N:81:ASN:H	1.52	0.74
1:d:79:THR:HG23	1:d:81:ASN:H	1.52	0.74
1:G:79:THR:HG23	1:G:81:ASN:H	1.52	0.74
1:e:414:THR:N	1:e:417:ASN:OD1	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:79:THR:HG23	1:n:81:ASN:H	1.52	0.74
1:A:79:THR:HG23	1:A:81:ASN:H	1.52	0.74
1:V:79:THR:HG23	1:V:81:ASN:H	1.52	0.74
1:v:79:THR:HG23	1:v:81:ASN:H	1.52	0.74
1:D:79:THR:HG23	1:D:81:ASN:H	1.52	0.74
1:F:414:THR:N	1:F:417:ASN:OD1	2.21	0.74
1:X:79:THR:HG23	1:X:81:ASN:H	1.52	0.74
1:f:414:THR:N	1:f:417:ASN:OD1	2.21	0.74
1:r:79:THR:HG23	1:r:81:ASN:H	1.52	0.74
1:t:79:THR:HG23	1:t:81:ASN:H	1.52	0.74
1:t:414:THR:N	1:t:417:ASN:OD1	2.21	0.74
1:K:79:THR:HG23	1:K:81:ASN:H	1.52	0.74
1:Z:414:THR:N	1:Z:417:ASN:OD1	2.21	0.74
1:b:414:THR:N	1:b:417:ASN:OD1	2.21	0.74
1:o:79:THR:HG23	1:o:81:ASN:H	1.52	0.74
1:p:79:THR:HG23	1:p:81:ASN:H	1.52	0.74
1:y:414:THR:N	1:y:417:ASN:OD1	2.21	0.74
1:D:414:THR:N	1:D:417:ASN:OD1	2.21	0.74
1:G:414:THR:N	1:G:417:ASN:OD1	2.21	0.74
1:R:414:THR:N	1:R:417:ASN:OD1	2.21	0.74
1:k:79:THR:HG23	1:k:81:ASN:H	1.52	0.74
1:8:414:THR:N	1:8:417:ASN:OD1	2.21	0.74
1:L:79:THR:HG23	1:L:81:ASN:H	1.52	0.73
1:S:79:THR:HG23	1:S:81:ASN:H	1.52	0.73
1:k:414:THR:N	1:k:417:ASN:OD1	2.21	0.73
1:q:414:THR:N	1:q:417:ASN:OD1	2.21	0.73
1:z:79:THR:HG23	1:z:81:ASN:H	1.52	0.73
1:z:414:THR:N	1:z:417:ASN:OD1	2.21	0.73
1:4:79:THR:HG23	1:4:81:ASN:H	1.52	0.73
1:L:414:THR:N	1:L:417:ASN:OD1	2.21	0.73
1:Y:79:THR:HG23	1:Y:81:ASN:H	1.52	0.73
1:1:79:THR:HG23	1:1:81:ASN:H	1.52	0.73
1:7:79:THR:HG23	1:7:81:ASN:H	1.52	0.73
1:B:79:THR:HG23	1:B:81:ASN:H	1.52	0.73
1:b:79:THR:HG23	1:b:81:ASN:H	1.52	0.73
1:o:414:THR:N	1:o:417:ASN:OD1	2.21	0.73
1:x:414:THR:N	1:x:417:ASN:OD1	2.21	0.73
1:I:414:THR:N	1:I:417:ASN:OD1	2.21	0.73
1:l:414:THR:N	1:l:417:ASN:OD1	2.21	0.73
1:B:414:THR:N	1:B:417:ASN:OD1	2.21	0.73
1:O:414:THR:N	1:O:417:ASN:OD1	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:79:THR:HG23	1:U:81:ASN:H	1.52	0.73
1:X:414:THR:N	1:X:417:ASN:OD1	2.21	0.73
1:f:79:THR:HG23	1:f:81:ASN:H	1.52	0.73
1:Q:414:THR:N	1:Q:417:ASN:OD1	2.21	0.73
1:a:414:THR:N	1:a:417:ASN:OD1	2.21	0.73
1:m:79:THR:HG23	1:m:81:ASN:H	1.52	0.73
1:s:79:THR:HG23	1:s:81:ASN:H	1.52	0.73
1:u:414:THR:N	1:u:417:ASN:OD1	2.21	0.73
1:l:414:THR:N	1:l:417:ASN:OD1	2.21	0.73
1:P:79:THR:HG23	1:P:81:ASN:H	1.52	0.73
1:p:414:THR:N	1:p:417:ASN:OD1	2.21	0.73
1:w:414:THR:N	1:w:417:ASN:OD1	2.21	0.73
1:3:414:THR:N	1:3:417:ASN:OD1	2.21	0.73
1:C:414:THR:N	1:C:417:ASN:OD1	2.21	0.73
1:M:414:THR:N	1:M:417:ASN:OD1	2.21	0.73
1:T:79:THR:HG23	1:T:81:ASN:H	1.52	0.73
1:g:414:THR:N	1:g:417:ASN:OD1	2.21	0.73
1:h:414:THR:N	1:h:417:ASN:OD1	2.21	0.73
1:E:414:THR:N	1:E:417:ASN:OD1	2.21	0.72
1:8:79:THR:HG23	1:8:81:ASN:H	1.52	0.72
1:A:414:THR:N	1:A:417:ASN:OD1	2.21	0.72
1:H:414:THR:N	1:H:417:ASN:OD1	2.21	0.72
1:j:79:THR:HG23	1:j:81:ASN:H	1.52	0.72
1:H:79:THR:HG23	1:H:81:ASN:H	1.52	0.72
1:Z:79:THR:HG23	1:Z:81:ASN:H	1.52	0.72
1:i:414:THR:N	1:i:417:ASN:OD1	2.21	0.72
1:v:414:THR:N	1:v:417:ASN:OD1	2.21	0.72
1:5:79:THR:HG23	1:5:81:ASN:H	1.52	0.72
1:5:414:THR:N	1:5:417:ASN:OD1	2.21	0.72
1:N:414:THR:N	1:N:417:ASN:OD1	2.21	0.72
1:d:414:THR:N	1:d:417:ASN:OD1	2.21	0.72
1:r:414:THR:N	1:r:417:ASN:OD1	2.21	0.72
1:S:414:THR:N	1:S:417:ASN:OD1	2.21	0.72
1:n:414:THR:N	1:n:417:ASN:OD1	2.21	0.72
1:s:414:THR:N	1:s:417:ASN:OD1	2.21	0.72
1:U:414:THR:N	1:U:417:ASN:OD1	2.21	0.72
1:T:414:THR:N	1:T:417:ASN:OD1	2.21	0.71
1:2:414:THR:N	1:2:417:ASN:OD1	2.21	0.71
1:m:414:THR:N	1:m:417:ASN:OD1	2.21	0.71
1:J:414:THR:N	1:J:417:ASN:OD1	2.21	0.71
1:c:124:LYS:HG2	1:c:482:GLU:HB2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:124:LYS:HG2	1:e:482:GLU:HB2	1.73	0.71
1:j:414:THR:N	1:j:417:ASN:OD1	2.21	0.71
1:t:124:LYS:HG2	1:t:482:GLU:HB2	1.73	0.71
1:D:124:LYS:HG2	1:D:482:GLU:HB2	1.73	0.71
1:P:414:THR:N	1:P:417:ASN:OD1	2.21	0.71
1:G:124:LYS:HG2	1:G:482:GLU:HB2	1.73	0.71
1:U:124:LYS:HG2	1:U:482:GLU:HB2	1.73	0.71
1:k:124:LYS:HG2	1:k:482:GLU:HB2	1.73	0.71
1:s:124:LYS:HG2	1:s:482:GLU:HB2	1.73	0.71
1:A:124:LYS:HG2	1:A:482:GLU:HB2	1.73	0.71
1:K:124:LYS:HG2	1:K:482:GLU:HB2	1.73	0.71
1:f:124:LYS:HG2	1:f:482:GLU:HB2	1.73	0.71
1:h:124:LYS:HG2	1:h:482:GLU:HB2	1.73	0.71
1:m:124:LYS:HG2	1:m:482:GLU:HB2	1.73	0.71
1:2:124:LYS:HG2	1:2:482:GLU:HB2	1.73	0.71
1:I:124:LYS:HG2	1:I:482:GLU:HB2	1.73	0.71
1:J:124:LYS:HG2	1:J:482:GLU:HB2	1.73	0.71
1:T:124:LYS:HG2	1:T:482:GLU:HB2	1.73	0.71
1:V:124:LYS:HG2	1:V:482:GLU:HB2	1.73	0.71
1:b:124:LYS:HG2	1:b:482:GLU:HB2	1.73	0.71
1:u:124:LYS:HG2	1:u:482:GLU:HB2	1.73	0.71
1:4:124:LYS:HG2	1:4:482:GLU:HB2	1.73	0.71
1:N:124:LYS:HG2	1:N:482:GLU:HB2	1.73	0.70
1:Q:410:ARG:NH2	1:Q:438:SER:O	2.24	0.70
1:U:67:GLN:HE21	1:U:189:GLN:HB2	1.56	0.70
1:W:414:THR:N	1:W:417:ASN:OD1	2.21	0.70
1:a:124:LYS:HG2	1:a:482:GLU:HB2	1.73	0.70
1:c:67:GLN:HE21	1:c:189:GLN:HB2	1.56	0.70
1:e:67:GLN:HE21	1:e:189:GLN:HB2	1.56	0.70
1:p:124:LYS:HG2	1:p:482:GLU:HB2	1.73	0.70
1:v:124:LYS:HG2	1:v:482:GLU:HB2	1.73	0.70
1:x:410:ARG:NH2	1:x:438:SER:O	2.24	0.70
1:M:124:LYS:HG2	1:M:482:GLU:HB2	1.73	0.70
1:N:410:ARG:NH2	1:N:438:SER:O	2.25	0.70
1:W:124:LYS:HG2	1:W:482:GLU:HB2	1.73	0.70
1:i:124:LYS:HG2	1:i:482:GLU:HB2	1.73	0.70
1:i:410:ARG:NH2	1:i:438:SER:O	2.24	0.70
1:3:124:LYS:HG2	1:3:482:GLU:HB2	1.73	0.70
1:6:124:LYS:HG2	1:6:482:GLU:HB2	1.73	0.70
1:E:67:GLN:HE21	1:E:189:GLN:HB2	1.56	0.70
1:H:433:ASP:O	1:Y:405:ASN:ND2	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:410:ARG:NH2	1:J:438:SER:O	2.24	0.70
1:s:67:GLN:HE21	1:s:189:GLN:HB2	1.56	0.70
1:w:67:GLN:HE21	1:w:189:GLN:HB2	1.56	0.70
1:w:124:LYS:HG2	1:w:482:GLU:HB2	1.73	0.70
1:1:124:LYS:HG2	1:1:482:GLU:HB2	1.73	0.70
1:2:410:ARG:NH2	1:2:438:SER:O	2.24	0.70
1:6:414:THR:N	1:6:417:ASN:OD1	2.21	0.70
1:B:67:GLN:HE21	1:B:189:GLN:HB2	1.56	0.70
1:B:124:LYS:HG2	1:B:482:GLU:HB2	1.73	0.70
1:E:124:LYS:HG2	1:E:482:GLU:HB2	1.73	0.70
1:Z:67:GLN:HE21	1:Z:189:GLN:HB2	1.56	0.70
1:v:67:GLN:HE21	1:v:189:GLN:HB2	1.56	0.70
1:A:67:GLN:HE21	1:A:189:GLN:HB2	1.56	0.70
1:F:67:GLN:HE21	1:F:189:GLN:HB2	1.56	0.70
1:o:410:ARG:NH2	1:o:438:SER:O	2.25	0.70
1:1:67:GLN:HE21	1:1:189:GLN:HB2	1.56	0.70
1:8:67:GLN:HE21	1:8:189:GLN:HB2	1.56	0.70
1:C:124:LYS:HG2	1:C:482:GLU:HB2	1.73	0.70
1:R:67:GLN:HE21	1:R:189:GLN:HB2	1.56	0.70
1:S:67:GLN:HE21	1:S:189:GLN:HB2	1.56	0.70
1:X:410:ARG:NH2	1:X:438:SER:O	2.24	0.70
1:j:124:LYS:HG2	1:j:482:GLU:HB2	1.73	0.70
1:o:67:GLN:HE21	1:o:189:GLN:HB2	1.56	0.70
1:o:405:ASN:ND2	1:p:433:ASP:O	2.25	0.70
1:5:67:GLN:HE21	1:5:189:GLN:HB2	1.56	0.70
1:E:433:ASP:O	1:F:405:ASN:ND2	2.25	0.70
1:H:67:GLN:HE21	1:H:189:GLN:HB2	1.56	0.70
1:L:67:GLN:HE21	1:L:189:GLN:HB2	1.56	0.70
1:V:414:THR:N	1:V:417:ASN:OD1	2.21	0.70
1:X:67:GLN:HE21	1:X:189:GLN:HB2	1.56	0.70
1:b:67:GLN:HE21	1:b:189:GLN:HB2	1.56	0.70
1:g:124:LYS:HG2	1:g:482:GLU:HB2	1.73	0.70
1:x:67:GLN:HE21	1:x:189:GLN:HB2	1.56	0.70
1:y:67:GLN:HE21	1:y:189:GLN:HB2	1.56	0.70
1:D:405:ASN:ND2	1:N:433:ASP:O	2.25	0.70
1:H:124:LYS:HG2	1:H:482:GLU:HB2	1.73	0.70
1:O:67:GLN:HE21	1:O:189:GLN:HB2	1.56	0.70
1:P:124:LYS:HG2	1:P:482:GLU:HB2	1.73	0.70
1:V:433:ASP:O	1:X:405:ASN:ND2	2.25	0.70
1:i:433:ASP:O	1:k:405:ASN:ND2	2.25	0.70
1:q:67:GLN:HE21	1:q:189:GLN:HB2	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:67:GLN:HE21	1:r:189:GLN:HB2	1.56	0.70
1:w:433:ASP:O	1:y:405:ASN:ND2	2.25	0.70
1:y:410:ARG:NH2	1:y:438:SER:O	2.24	0.70
1:z:124:LYS:HG2	1:z:482:GLU:HB2	1.73	0.70
1:3:410:ARG:NH2	1:3:438:SER:O	2.24	0.70
1:I:67:GLN:HE21	1:I:189:GLN:HB2	1.56	0.70
1:Q:67:GLN:HE21	1:Q:189:GLN:HB2	1.56	0.70
1:X:124:LYS:HG2	1:X:482:GLU:HB2	1.73	0.70
1:a:410:ARG:NH2	1:a:438:SER:O	2.24	0.70
1:f:67:GLN:HE21	1:f:189:GLN:HB2	1.56	0.70
1:i:405:ASN:ND2	1:j:433:ASP:O	2.25	0.70
1:t:67:GLN:HE21	1:t:189:GLN:HB2	1.56	0.70
1:z:67:GLN:HE21	1:z:189:GLN:HB2	1.56	0.70
1:6:67:GLN:HE21	1:6:189:GLN:HB2	1.56	0.70
1:F:410:ARG:NH2	1:F:438:SER:O	2.24	0.70
1:L:124:LYS:HG2	1:L:482:GLU:HB2	1.73	0.70
1:W:67:GLN:HE21	1:W:189:GLN:HB2	1.56	0.70
1:l:67:GLN:HE21	1:l:189:GLN:HB2	1.56	0.70
1:q:124:LYS:HG2	1:q:482:GLU:HB2	1.73	0.70
1:u:405:ASN:ND2	1:v:433:ASP:O	2.24	0.70
1:5:124:LYS:HG2	1:5:482:GLU:HB2	1.73	0.70
1:5:405:ASN:ND2	1:6:433:ASP:O	2.25	0.70
1:D:410:ARG:NH2	1:D:438:SER:O	2.24	0.69
1:N:405:ASN:ND2	1:P:433:ASP:O	2.25	0.69
1:R:124:LYS:HG2	1:R:482:GLU:HB2	1.73	0.69
1:c:361:GLN:HE22	1:c:416:GLU:HG2	1.57	0.69
1:e:361:GLN:HE22	1:e:416:GLU:HG2	1.57	0.69
1:o:124:LYS:HG2	1:o:482:GLU:HB2	1.73	0.69
1:u:67:GLN:HE21	1:u:189:GLN:HB2	1.56	0.69
1:5:410:ARG:NH2	1:5:438:SER:O	2.24	0.69
1:C:67:GLN:HE21	1:C:189:GLN:HB2	1.56	0.69
1:F:433:ASP:O	1:Q:405:ASN:ND2	2.24	0.69
1:G:67:GLN:HE21	1:G:189:GLN:HB2	1.56	0.69
1:Q:124:LYS:HG2	1:Q:482:GLU:HB2	1.73	0.69
1:X:433:ASP:O	1:e:405:ASN:ND2	2.25	0.69
1:g:67:GLN:HE21	1:g:189:GLN:HB2	1.56	0.69
1:4:361:GLN:HE22	1:4:416:GLU:HG2	1.57	0.69
1:8:124:LYS:HG2	1:8:482:GLU:HB2	1.73	0.69
1:8:361:GLN:HE22	1:8:416:GLU:HG2	1.57	0.69
1:C:410:ARG:NH2	1:C:438:SER:O	2.24	0.69
1:I:361:GLN:HE22	1:I:416:GLU:HG2	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:361:GLN:HE22	1:M:416:GLU:HG2	1.58	0.69
1:O:405:ASN:ND2	1:m:433:ASP:O	2.25	0.69
1:P:67:GLN:HE21	1:P:189:GLN:HB2	1.56	0.69
1:T:433:ASP:O	1:l:405:ASN:ND2	2.24	0.69
1:Z:124:LYS:HG2	1:Z:482:GLU:HB2	1.73	0.69
1:Z:361:GLN:HE22	1:Z:416:GLU:HG2	1.57	0.69
1:e:410:ARG:NH2	1:e:438:SER:O	2.24	0.69
1:h:361:GLN:HE22	1:h:416:GLU:HG2	1.57	0.69
1:k:410:ARG:NH2	1:k:438:SER:O	2.24	0.69
1:x:405:ASN:ND2	1:y:433:ASP:O	2.24	0.69
1:z:433:ASP:O	1:2:405:ASN:ND2	2.25	0.69
1:A:405:ASN:ND2	1:G:433:ASP:O	2.25	0.69
1:E:410:ARG:NH2	1:E:438:SER:O	2.24	0.69
1:H:410:ARG:NH2	1:H:438:SER:O	2.25	0.69
1:K:361:GLN:HE22	1:K:416:GLU:HG2	1.58	0.69
1:S:124:LYS:HG2	1:S:482:GLU:HB2	1.73	0.69
1:W:361:GLN:HE22	1:W:416:GLU:HG2	1.57	0.69
1:c:405:ASN:ND2	1:o:433:ASP:O	2.25	0.69
1:c:410:ARG:NH2	1:c:438:SER:O	2.24	0.69
1:g:410:ARG:NH2	1:g:438:SER:O	2.24	0.69
1:r:124:LYS:HG2	1:r:482:GLU:HB2	1.73	0.69
1:t:433:ASP:O	1:v:405:ASN:ND2	2.25	0.69
1:u:361:GLN:HE22	1:u:416:GLU:HG2	1.57	0.69
1:w:410:ARG:NH2	1:w:438:SER:O	2.24	0.69
1:x:124:LYS:HG2	1:x:482:GLU:HB2	1.73	0.69
1:C:405:ASN:ND2	1:b:433:ASP:O	2.25	0.69
1:b:410:ARG:NH2	1:b:438:SER:O	2.24	0.69
1:c:433:ASP:O	1:p:405:ASN:ND2	2.25	0.69
1:j:67:GLN:HE21	1:j:189:GLN:HB2	1.56	0.69
1:7:414:THR:N	1:7:417:ASN:OD1	2.21	0.69
1:K:433:ASP:O	1:8:405:ASN:ND2	2.25	0.69
1:T:67:GLN:HE21	1:T:189:GLN:HB2	1.56	0.69
1:V:405:ASN:ND2	1:e:433:ASP:O	2.24	0.69
1:d:410:ARG:NH2	1:d:438:SER:O	2.24	0.69
1:f:410:ARG:NH2	1:f:438:SER:O	2.24	0.69
1:l:124:LYS:HG2	1:l:482:GLU:HB2	1.73	0.69
1:m:67:GLN:HE21	1:m:189:GLN:HB2	1.56	0.69
1:n:410:ARG:NH2	1:n:438:SER:O	2.24	0.69
1:5:433:ASP:O	1:7:405:ASN:ND2	2.24	0.69
1:6:361:GLN:HE22	1:6:416:GLU:HG2	1.58	0.69
1:D:433:ASP:O	1:P:405:ASN:ND2	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:67:GLN:HE21	1:K:189:GLN:HB2	1.56	0.69
1:K:405:ASN:ND2	1:a:433:ASP:O	2.25	0.69
1:O:124:LYS:HG2	1:O:482:GLU:HB2	1.73	0.69
1:O:361:GLN:HE22	1:O:416:GLU:HG2	1.58	0.69
1:Q:361:GLN:HE22	1:Q:416:GLU:HG2	1.57	0.69
1:Z:405:ASN:ND2	1:4:433:ASP:O	2.25	0.69
1:f:433:ASP:O	1:g:405:ASN:ND2	2.25	0.69
1:x:361:GLN:HE22	1:x:416:GLU:HG2	1.57	0.69
1:F:361:GLN:HE22	1:F:416:GLU:HG2	1.58	0.69
1:I:410:ARG:NH2	1:I:438:SER:O	2.24	0.69
1:P:410:ARG:NH2	1:P:438:SER:O	2.24	0.69
1:U:361:GLN:HE22	1:U:416:GLU:HG2	1.57	0.69
1:U:410:ARG:NH2	1:U:438:SER:O	2.24	0.69
1:Y:124:LYS:HG2	1:Y:482:GLU:HB2	1.73	0.69
1:Y:414:THR:N	1:Y:417:ASN:OD1	2.21	0.69
1:j:405:ASN:ND2	1:k:433:ASP:O	2.24	0.69
1:l:361:GLN:HE22	1:l:416:GLU:HG2	1.58	0.69
1:s:361:GLN:HE22	1:s:416:GLU:HG2	1.57	0.69
1:v:361:GLN:HE22	1:v:416:GLU:HG2	1.58	0.69
1:y:361:GLN:HE22	1:y:416:GLU:HG2	1.58	0.69
1:J:67:GLN:HE21	1:J:189:GLN:HB2	1.56	0.69
1:N:67:GLN:HE21	1:N:189:GLN:HB2	1.56	0.69
1:S:410:ARG:NH2	1:S:438:SER:O	2.25	0.69
1:W:405:ASN:ND2	1:Y:433:ASP:O	2.24	0.69
1:g:361:GLN:HE22	1:g:416:GLU:HG2	1.57	0.69
1:h:67:GLN:HE21	1:h:189:GLN:HB2	1.56	0.69
1:j:410:ARG:NH2	1:j:438:SER:O	2.24	0.69
1:n:67:GLN:HE21	1:n:189:GLN:HB2	1.56	0.69
1:n:124:LYS:HG2	1:n:482:GLU:HB2	1.73	0.69
1:p:67:GLN:HE21	1:p:189:GLN:HB2	1.56	0.69
1:u:410:ARG:NH2	1:u:438:SER:O	2.24	0.69
1:2:67:GLN:HE21	1:2:189:GLN:HB2	1.56	0.69
1:3:433:ASP:O	1:4:405:ASN:ND2	2.25	0.69
1:7:361:GLN:HE22	1:7:416:GLU:HG2	1.57	0.69
1:A:361:GLN:HE22	1:A:416:GLU:HG2	1.58	0.69
1:C:433:ASP:O	1:M:405:ASN:ND2	2.25	0.69
1:L:361:GLN:HE22	1:L:416:GLU:HG2	1.57	0.69
1:a:405:ASN:ND2	1:8:433:ASP:O	2.25	0.69
1:l:410:ARG:NH2	1:l:438:SER:O	2.25	0.69
1:r:410:ARG:NH2	1:r:438:SER:O	2.24	0.69
1:s:410:ARG:NH2	1:s:438:SER:O	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:67:GLN:HE21	1:4:189:GLN:HB2	1.56	0.69
1:7:124:LYS:HG2	1:7:482:GLU:HB2	1.73	0.69
1:A:433:ASP:O	1:I:405:ASN:ND2	2.24	0.68
1:C:361:GLN:HE22	1:C:416:GLU:HG2	1.57	0.68
1:F:124:LYS:HG2	1:F:482:GLU:HB2	1.73	0.68
1:J:361:GLN:HE22	1:J:416:GLU:HG2	1.57	0.68
1:O:410:ARG:NH2	1:O:438:SER:O	2.25	0.68
1:V:67:GLN:HE21	1:V:189:GLN:HB2	1.56	0.68
1:Y:361:GLN:HE22	1:Y:416:GLU:HG2	1.58	0.68
1:Z:433:ASP:O	1:3:405:ASN:ND2	2.25	0.68
1:a:67:GLN:HE21	1:a:189:GLN:HB2	1.56	0.68
1:i:67:GLN:HE21	1:i:189:GLN:HB2	1.56	0.68
1:q:405:ASN:ND2	1:r:433:ASP:O	2.25	0.68
1:z:361:GLN:HE22	1:z:416:GLU:HG2	1.57	0.68
1:2:361:GLN:HE22	1:2:416:GLU:HG2	1.57	0.68
1:B:361:GLN:HE22	1:B:416:GLU:HG2	1.58	0.68
1:M:67:GLN:HE21	1:M:189:GLN:HB2	1.56	0.68
1:Y:67:GLN:HE21	1:Y:189:GLN:HB2	1.56	0.68
1:Y:410:ARG:NH2	1:Y:438:SER:O	2.25	0.68
1:d:67:GLN:HE21	1:d:189:GLN:HB2	1.56	0.68
1:d:124:LYS:HG2	1:d:482:GLU:HB2	1.73	0.68
1:g:433:ASP:O	1:h:405:ASN:ND2	2.25	0.68
1:y:124:LYS:HG2	1:y:482:GLU:HB2	1.73	0.68
1:1:361:GLN:HE22	1:1:416:GLU:HG2	1.58	0.68
1:7:410:ARG:NH2	1:7:438:SER:O	2.25	0.68
1:A:410:ARG:NH2	1:A:438:SER:O	2.24	0.68
1:R:405:ASN:ND2	1:S:433:ASP:O	2.25	0.68
1:v:410:ARG:NH2	1:v:438:SER:O	2.24	0.68
1:z:405:ASN:ND2	1:1:433:ASP:O	2.25	0.68
1:1:410:ARG:NH2	1:1:438:SER:O	2.24	0.68
1:3:361:GLN:HE22	1:3:416:GLU:HG2	1.58	0.68
1:D:67:GLN:HE21	1:D:189:GLN:HB2	1.56	0.68
1:K:410:ARG:NH2	1:K:438:SER:O	2.24	0.68
1:R:361:GLN:HE22	1:R:416:GLU:HG2	1.58	0.68
1:R:433:ASP:O	1:U:405:ASN:ND2	2.25	0.68
1:a:361:GLN:HE22	1:a:416:GLU:HG2	1.57	0.68
1:k:67:GLN:HE21	1:k:189:GLN:HB2	1.56	0.68
1:7:67:GLN:HE21	1:7:189:GLN:HB2	1.56	0.68
1:B:433:ASP:O	1:L:405:ASN:ND2	2.25	0.68
1:P:361:GLN:HE22	1:P:416:GLU:HG2	1.57	0.68
1:o:361:GLN:HE22	1:o:416:GLU:HG2	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:361:GLN:HE22	1:q:416:GLU:HG2	1.58	0.68
1:3:67:GLN:HE21	1:3:189:GLN:HB2	1.56	0.68
1:4:410:ARG:NH2	1:4:438:SER:O	2.25	0.68
1:B:410:ARG:NH2	1:B:438:SER:O	2.25	0.68
1:G:361:GLN:HE22	1:G:416:GLU:HG2	1.58	0.68
1:G:405:ASN:ND2	1:I:433:ASP:O	2.25	0.68
1:c:414:THR:N	1:c:417:ASN:OD1	2.21	0.68
1:q:433:ASP:O	1:s:405:ASN:ND2	2.25	0.68
1:t:361:GLN:HE22	1:t:416:GLU:HG2	1.57	0.68
1:t:405:ASN:ND2	1:u:433:ASP:O	2.25	0.68
1:W:410:ARG:NH2	1:W:438:SER:O	2.24	0.68
1:R:352:ASN:OD1	1:R:353:LEU:N	2.27	0.68
1:T:361:GLN:HE22	1:T:416:GLU:HG2	1.58	0.68
1:X:361:GLN:HE22	1:X:416:GLU:HG2	1.58	0.68
1:j:361:GLN:HE22	1:j:416:GLU:HG2	1.57	0.68
1:J:405:ASN:ND2	1:L:433:ASP:O	2.25	0.68
1:L:352:ASN:OD1	1:L:353:LEU:N	2.27	0.68
1:T:352:ASN:OD1	1:T:353:LEU:N	2.27	0.68
1:c:352:ASN:OD1	1:c:353:LEU:N	2.27	0.68
1:e:352:ASN:OD1	1:e:353:LEU:N	2.27	0.68
1:i:352:ASN:OD1	1:i:353:LEU:N	2.27	0.68
1:m:352:ASN:OD1	1:m:353:LEU:N	2.27	0.68
1:q:352:ASN:OD1	1:q:353:LEU:N	2.27	0.68
1:z:352:ASN:OD1	1:z:353:LEU:N	2.27	0.68
1:6:405:ASN:ND2	1:7:433:ASP:O	2.25	0.68
1:E:361:GLN:HE22	1:E:416:GLU:HG2	1.57	0.68
1:H:405:ASN:ND2	1:W:433:ASP:O	2.25	0.68
1:N:352:ASN:OD1	1:N:353:LEU:N	2.27	0.68
1:N:361:GLN:HE22	1:N:416:GLU:HG2	1.57	0.68
1:P:352:ASN:OD1	1:P:353:LEU:N	2.27	0.68
1:S:361:GLN:HE22	1:S:416:GLU:HG2	1.57	0.68
1:S:405:ASN:ND2	1:U:433:ASP:O	2.25	0.68
1:W:494:GLU:HG3	1:X:109:GLN:HE22	1.59	0.68
1:d:361:GLN:HE22	1:d:416:GLU:HG2	1.57	0.68
1:i:361:GLN:HE22	1:i:416:GLU:HG2	1.57	0.68
1:j:352:ASN:OD1	1:j:353:LEU:N	2.27	0.68
1:k:361:GLN:HE22	1:k:416:GLU:HG2	1.57	0.68
1:m:361:GLN:HE22	1:m:416:GLU:HG2	1.58	0.68
1:m:405:ASN:ND2	1:n:433:ASP:O	2.25	0.68
1:p:361:GLN:HE22	1:p:416:GLU:HG2	1.58	0.68
1:t:410:ARG:NH2	1:t:438:SER:O	2.24	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:410:ARG:NH2	1:6:438:SER:O	2.24	0.68
1:D:361:GLN:HE22	1:D:416:GLU:HG2	1.57	0.67
1:G:352:ASN:OD1	1:G:353:LEU:N	2.27	0.67
1:G:410:ARG:NH2	1:G:438:SER:O	2.25	0.67
1:T:405:ASN:ND2	1:d:433:ASP:O	2.25	0.67
1:V:361:GLN:HE22	1:V:416:GLU:HG2	1.58	0.67
1:r:361:GLN:HE22	1:r:416:GLU:HG2	1.57	0.67
1:r:405:ASN:ND2	1:s:433:ASP:O	2.25	0.67
1:t:352:ASN:OD1	1:t:353:LEU:N	2.27	0.67
1:z:410:ARG:NH2	1:z:438:SER:O	2.24	0.67
1:H:361:GLN:HE22	1:H:416:GLU:HG2	1.57	0.67
1:L:410:ARG:NH2	1:L:438:SER:O	2.24	0.67
1:n:361:GLN:HE22	1:n:416:GLU:HG2	1.57	0.67
1:w:361:GLN:HE22	1:w:416:GLU:HG2	1.57	0.67
1:5:361:GLN:HE22	1:5:416:GLU:HG2	1.58	0.67
1:h:352:ASN:OD1	1:h:353:LEU:N	2.27	0.67
1:2:352:ASN:OD1	1:2:353:LEU:N	2.27	0.67
1:6:352:ASN:OD1	1:6:353:LEU:N	2.27	0.67
1:B:405:ASN:ND2	1:J:433:ASP:O	2.25	0.67
1:C:352:ASN:OD1	1:C:353:LEU:N	2.27	0.67
1:J:352:ASN:OD1	1:J:353:LEU:N	2.27	0.67
1:M:352:ASN:OD1	1:M:353:LEU:N	2.27	0.67
1:W:352:ASN:OD1	1:W:353:LEU:N	2.27	0.67
1:K:352:ASN:OD1	1:K:353:LEU:N	2.27	0.67
1:E:405:ASN:ND2	1:Q:433:ASP:O	2.25	0.67
1:a:352:ASN:OD1	1:a:353:LEU:N	2.27	0.67
1:b:361:GLN:HE22	1:b:416:GLU:HG2	1.57	0.67
1:f:361:GLN:HE22	1:f:416:GLU:HG2	1.57	0.67
1:g:352:ASN:OD1	1:g:353:LEU:N	2.27	0.67
1:u:352:ASN:OD1	1:u:353:LEU:N	2.27	0.67
1:1:405:ASN:ND2	1:2:433:ASP:O	2.25	0.67
1:I:352:ASN:OD1	1:I:353:LEU:N	2.27	0.67
1:Z:352:ASN:OD1	1:Z:353:LEU:N	2.27	0.67
1:g:494:GLU:HG3	1:z:109:GLN:HE22	1.60	0.67
1:w:352:ASN:OD1	1:w:353:LEU:N	2.27	0.67
1:4:352:ASN:OD1	1:4:353:LEU:N	2.27	0.67
1:8:410:ARG:NH2	1:8:438:SER:O	2.24	0.67
1:C:494:GLU:HG3	1:L:109:GLN:HE22	1.60	0.67
1:E:352:ASN:OD1	1:E:353:LEU:N	2.27	0.67
1:w:405:ASN:ND2	1:x:433:ASP:O	2.25	0.67
1:3:352:ASN:OD1	1:3:353:LEU:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:352:ASN:OD1	1:U:353:LEU:N	2.27	0.67
1:m:410:ARG:NH2	1:m:438:SER:O	2.24	0.67
1:v:494:GLU:HG3	1:y:109:GLN:HE22	1.60	0.67
1:8:352:ASN:OD1	1:8:353:LEU:N	2.27	0.67
1:N:494:GLU:HG3	1:O:109:GLN:HE22	1.60	0.67
1:O:433:ASP:O	1:n:405:ASN:ND2	2.25	0.67
1:Q:352:ASN:OD1	1:Q:353:LEU:N	2.27	0.67
1:Z:410:ARG:NH2	1:Z:438:SER:O	2.25	0.67
1:o:109:GLN:HE22	1:6:494:GLU:HG3	1.60	0.67
1:s:352:ASN:OD1	1:s:353:LEU:N	2.27	0.67
1:x:352:ASN:OD1	1:x:353:LEU:N	2.27	0.67
1:O:352:ASN:OD1	1:O:353:LEU:N	2.27	0.66
1:T:410:ARG:NH2	1:T:438:SER:O	2.24	0.66
1:d:405:ASN:ND2	1:l:433:ASP:O	2.25	0.66
1:i:494:GLU:HG3	1:l:109:GLN:HE22	1.60	0.66
1:o:352:ASN:OD1	1:o:353:LEU:N	2.27	0.66
1:p:410:ARG:NH2	1:p:438:SER:O	2.24	0.66
1:B:494:GLU:HG3	1:I:109:GLN:HE22	1.61	0.66
1:X:352:ASN:OD1	1:X:353:LEU:N	2.27	0.66
1:d:352:ASN:OD1	1:d:353:LEU:N	2.27	0.66
1:A:109:GLN:HE22	1:F:494:GLU:HG3	1.60	0.66
1:A:494:GLU:HG3	1:F:109:GLN:HE22	1.61	0.66
1:V:352:ASN:OD1	1:V:353:LEU:N	2.27	0.66
1:l:352:ASN:OD1	1:l:353:LEU:N	2.27	0.66
1:n:352:ASN:OD1	1:n:353:LEU:N	2.27	0.66
1:u:109:GLN:HE22	1:l:494:GLU:HG3	1.61	0.66
1:v:352:ASN:OD1	1:v:353:LEU:N	2.27	0.66
1:A:352:ASN:OD1	1:A:353:LEU:N	2.27	0.66
1:D:352:ASN:OD1	1:D:353:LEU:N	2.27	0.66
1:G:109:GLN:HE22	1:H:494:GLU:HG3	1.60	0.66
1:V:410:ARG:NH2	1:V:438:SER:O	2.25	0.66
1:h:410:ARG:NH2	1:h:438:SER:O	2.24	0.66
1:o:494:GLU:HG3	1:6:109:GLN:HE22	1.60	0.66
1:p:352:ASN:OD1	1:p:353:LEU:N	2.27	0.66
1:S:352:ASN:OD1	1:S:353:LEU:N	2.27	0.66
1:W:109:GLN:HE22	1:X:494:GLU:HG3	1.60	0.66
1:k:352:ASN:OD1	1:k:353:LEU:N	2.27	0.66
1:r:352:ASN:OD1	1:r:353:LEU:N	2.27	0.66
1:7:109:GLN:HE22	1:8:494:GLU:HG3	1.61	0.66
1:J:494:GLU:HG3	1:K:109:GLN:HE22	1.60	0.66
1:t:109:GLN:HE22	1:5:494:GLU:HG3	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:494:GLU:HG3	1:4:109:GLN:HE22	1.61	0.66
1:5:352:ASN:OD1	1:5:353:LEU:N	2.27	0.66
1:H:352:ASN:OD1	1:H:353:LEU:N	2.27	0.66
1:R:64:THR:HG23	1:R:452:MET:HE3	1.78	0.66
1:p:494:GLU:HG3	1:s:109:GLN:HE22	1.60	0.66
1:q:64:THR:HG23	1:q:452:MET:HE3	1.78	0.66
1:v:109:GLN:HE22	1:y:494:GLU:HG3	1.60	0.66
1:1:352:ASN:OD1	1:1:353:LEU:N	2.27	0.66
1:B:352:ASN:OD1	1:B:353:LEU:N	2.27	0.66
1:M:410:ARG:NH2	1:M:438:SER:O	2.25	0.66
1:U:109:GLN:HE22	1:V:494:GLU:HG3	1.60	0.66
1:q:410:ARG:NH2	1:q:438:SER:O	2.24	0.66
1:7:352:ASN:OD1	1:7:353:LEU:N	2.27	0.66
1:8:64:THR:HG23	1:8:452:MET:HE3	1.78	0.66
1:F:64:THR:HG23	1:F:452:MET:HE3	1.78	0.66
1:G:254:ARG:N	1:G:538:ILE:O	2.27	0.66
1:K:542:LEU:HD11	1:a:424:PRO:CB	2.20	0.66
1:N:109:GLN:HE22	1:O:494:GLU:HG3	1.60	0.66
1:Q:64:THR:HG23	1:Q:452:MET:HE3	1.78	0.66
1:W:254:ARG:N	1:W:538:ILE:O	2.27	0.66
1:Y:352:ASN:OD1	1:Y:353:LEU:N	2.27	0.66
1:Z:64:THR:HG23	1:Z:452:MET:HE3	1.78	0.66
1:a:109:GLN:HE22	1:3:494:GLU:HG3	1.60	0.66
1:b:494:GLU:HG3	1:c:109:GLN:HE22	1.60	0.66
1:i:109:GLN:HE22	1:l:494:GLU:HG3	1.60	0.66
1:j:542:LEU:HD11	1:k:424:PRO:CB	2.20	0.66
1:x:64:THR:HG23	1:x:452:MET:HE3	1.78	0.66
1:y:64:THR:HG23	1:y:452:MET:HE3	1.78	0.66
1:F:352:ASN:OD1	1:F:353:LEU:N	2.27	0.66
1:P:64:THR:HG23	1:P:452:MET:HE3	1.78	0.66
1:X:254:ARG:N	1:X:538:ILE:O	2.27	0.66
1:Y:109:GLN:HE22	1:Z:494:GLU:HG3	1.61	0.66
1:a:494:GLU:HG3	1:3:109:GLN:HE22	1.60	0.66
1:d:64:THR:HG23	1:d:452:MET:HE3	1.78	0.66
1:d:494:GLU:HG3	1:n:109:GLN:HE22	1.60	0.66
1:e:254:ARG:N	1:e:538:ILE:O	2.27	0.66
1:j:64:THR:HG23	1:j:452:MET:HE3	1.78	0.66
1:6:254:ARG:N	1:6:538:ILE:O	2.27	0.66
1:7:494:GLU:HG3	1:8:109:GLN:HE22	1.59	0.66
1:C:64:THR:HG23	1:C:452:MET:HE3	1.78	0.65
1:J:64:THR:HG23	1:J:452:MET:HE3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:109:GLN:HE22	1:R:494:GLU:HG3	1.60	0.65
1:Q:254:ARG:N	1:Q:538:ILE:O	2.27	0.65
1:d:109:GLN:HE22	1:n:494:GLU:HG3	1.60	0.65
1:e:109:GLN:HE22	1:f:494:GLU:HG3	1.60	0.65
1:t:424:PRO:CB	1:v:542:LEU:HD11	2.20	0.65
1:y:254:ARG:N	1:y:538:ILE:O	2.27	0.65
1:B:64:THR:HG23	1:B:452:MET:HE3	1.78	0.65
1:C:542:LEU:HD11	1:b:424:PRO:CB	2.20	0.65
1:M:433:ASP:O	1:b:405:ASN:ND2	2.25	0.65
1:R:410:ARG:NH2	1:R:438:SER:O	2.24	0.65
1:h:64:THR:HG23	1:h:452:MET:HE3	1.78	0.65
1:m:494:GLU:HG3	1:r:109:GLN:HE22	1.60	0.65
1:n:64:THR:HG23	1:n:452:MET:HE3	1.78	0.65
1:r:64:THR:HG23	1:r:452:MET:HE3	1.78	0.65
1:u:64:THR:HG23	1:u:452:MET:HE3	1.78	0.65
1:v:254:ARG:N	1:v:538:ILE:O	2.27	0.65
1:y:352:ASN:OD1	1:y:353:LEU:N	2.27	0.65
1:1:64:THR:HG23	1:1:452:MET:HE3	1.78	0.65
1:2:64:THR:HG23	1:2:452:MET:HE3	1.78	0.65
1:D:424:PRO:CB	1:P:542:LEU:HD11	2.20	0.65
1:H:64:THR:HG23	1:H:452:MET:HE3	1.78	0.65
1:M:64:THR:HG23	1:M:452:MET:HE3	1.78	0.65
1:S:64:THR:HG23	1:S:452:MET:HE3	1.78	0.65
1:S:109:GLN:HE22	1:T:494:GLU:HG3	1.60	0.65
1:a:64:THR:HG23	1:a:452:MET:HE3	1.78	0.65
1:g:64:THR:HG23	1:g:452:MET:HE3	1.78	0.65
1:t:64:THR:HG23	1:t:452:MET:HE3	1.78	0.65
1:w:64:THR:HG23	1:w:452:MET:HE3	1.78	0.65
1:3:64:THR:HG23	1:3:452:MET:HE3	1.78	0.65
1:3:424:PRO:CB	1:4:542:LEU:HD11	2.20	0.65
1:5:64:THR:HG23	1:5:452:MET:HE3	1.78	0.65
1:A:254:ARG:N	1:A:538:ILE:O	2.27	0.65
1:A:542:LEU:HD11	1:G:424:PRO:CB	2.20	0.65
1:D:109:GLN:HE22	1:M:494:GLU:HG3	1.61	0.65
1:E:64:THR:HG23	1:E:452:MET:HE3	1.78	0.65
1:F:254:ARG:N	1:F:538:ILE:O	2.27	0.65
1:G:64:THR:HG23	1:G:452:MET:HE3	1.78	0.65
1:I:64:THR:HG23	1:I:452:MET:HE3	1.78	0.65
1:f:352:ASN:OD1	1:f:353:LEU:N	2.27	0.65
1:f:405:ASN:ND2	1:h:433:ASP:O	2.25	0.65
1:h:494:GLU:HG3	1:k:109:GLN:HE22	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:494:GLU:HG3	1:w:109:GLN:HE22	1.60	0.65
1:q:494:GLU:HG3	1:x:109:GLN:HE22	1.61	0.65
1:J:109:GLN:HE22	1:K:494:GLU:HG3	1.60	0.65
1:V:64:THR:HG23	1:V:452:MET:HE3	1.78	0.65
1:V:542:LEU:HD12	1:e:424:PRO:CB	2.26	0.65
1:Y:254:ARG:N	1:Y:538:ILE:O	2.27	0.65
1:b:352:ASN:OD1	1:b:353:LEU:N	2.27	0.65
1:c:424:PRO:CB	1:p:542:LEU:HD12	2.26	0.65
1:g:109:GLN:HE22	1:z:494:GLU:HG3	1.61	0.65
1:p:64:THR:HG23	1:p:452:MET:HE3	1.78	0.65
1:t:494:GLU:HG3	1:5:109:GLN:HE22	1.60	0.65
1:7:254:ARG:N	1:7:538:ILE:O	2.27	0.65
1:C:109:GLN:HE22	1:L:494:GLU:HG3	1.61	0.65
1:G:494:GLU:HG3	1:H:109:GLN:HE22	1.60	0.65
1:f:542:LEU:HD11	1:h:424:PRO:CB	2.21	0.65
1:q:109:GLN:HE22	1:x:494:GLU:HG3	1.60	0.65
1:E:109:GLN:HE22	1:P:494:GLU:HG3	1.60	0.65
1:T:64:THR:HG23	1:T:452:MET:HE3	1.78	0.65
1:L:64:THR:HG23	1:L:452:MET:HE3	1.78	0.65
1:Y:494:GLU:HG3	1:Z:109:GLN:HE22	1.60	0.65
1:m:64:THR:HG23	1:m:452:MET:HE3	1.78	0.65
1:2:109:GLN:HE22	1:4:494:GLU:HG3	1.60	0.65
1:B:109:GLN:HE22	1:I:494:GLU:HG3	1.60	0.65
1:E:424:PRO:CB	1:F:542:LEU:HD12	2.26	0.65
1:Q:494:GLU:HG3	1:R:109:GLN:HE22	1.60	0.65
1:M:424:PRO:CB	1:b:542:LEU:HD11	2.21	0.65
1:X:64:THR:HG23	1:X:452:MET:HE3	1.78	0.65
1:b:109:GLN:HE22	1:c:494:GLU:HG3	1.60	0.65
1:e:494:GLU:HG3	1:f:109:GLN:HE22	1.60	0.65
1:w:424:PRO:CB	1:y:542:LEU:HD12	2.26	0.65
1:z:64:THR:HG23	1:z:452:MET:HE3	1.78	0.65
1:E:494:GLU:HG3	1:P:109:GLN:HE22	1.60	0.64
1:Z:542:LEU:HD11	1:4:424:PRO:CB	2.20	0.64
1:j:109:GLN:HE22	1:w:494:GLU:HG3	1.60	0.64
1:D:494:GLU:HG3	1:M:109:GLN:HE22	1.60	0.64
1:E:542:LEU:HD12	1:Q:424:PRO:CB	2.26	0.64
1:K:64:THR:HG23	1:K:452:MET:HE3	1.78	0.64
1:K:424:PRO:CB	1:8:542:LEU:HD11	2.20	0.64
1:Y:64:THR:HG23	1:Y:452:MET:HE3	1.78	0.64
1:e:64:THR:HG23	1:e:452:MET:HE3	1.78	0.64
1:h:109:GLN:HE22	1:k:494:GLU:HG3	1.60	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:494:GLU:HG3	1:1:109:GLN:HE22	1.60	0.64
1:4:64:THR:HG23	1:4:452:MET:HE3	1.78	0.64
1:Q:515:HIS:HD1	1:S:222:PHE:HB2	1.63	0.64
1:S:494:GLU:HG3	1:T:109:GLN:HE22	1.61	0.64
1:c:64:THR:HG23	1:c:452:MET:HE3	1.78	0.64
1:o:64:THR:HG23	1:o:452:MET:HE3	1.78	0.64
1:4:254:ARG:N	1:4:538:ILE:O	2.27	0.64
1:U:494:GLU:HG3	1:V:109:GLN:HE22	1.61	0.64
1:i:64:THR:HG23	1:i:452:MET:HE3	1.78	0.64
1:w:542:LEU:HD12	1:x:424:PRO:CB	2.26	0.64
1:7:64:THR:HG23	1:7:452:MET:HE3	1.78	0.64
1:D:64:THR:HG23	1:D:452:MET:HE3	1.78	0.64
1:K:254:ARG:N	1:K:538:ILE:O	2.27	0.64
1:N:64:THR:HG23	1:N:452:MET:HE3	1.78	0.64
1:R:424:PRO:CB	1:U:542:LEU:HD12	2.26	0.64
1:Y:515:HIS:HD1	1:4:222:PHE:HB2	1.62	0.64
1:r:222:PHE:HB2	1:x:515:HIS:HD1	1.63	0.64
1:s:64:THR:HG23	1:s:452:MET:HE3	1.78	0.64
1:v:64:THR:HG23	1:v:452:MET:HE3	1.78	0.64
1:A:64:THR:HG23	1:A:452:MET:HE3	1.78	0.64
1:C:174:GLU:OE2	1:M:287:ARG:NH1	2.31	0.64
1:U:64:THR:HG23	1:U:452:MET:HE3	1.78	0.64
1:V:222:PHE:HB2	1:W:515:HIS:HD1	1.62	0.64
1:W:287:ARG:NH1	1:Y:174:GLU:OE2	2.30	0.64
1:X:515:HIS:HD1	1:Y:222:PHE:HB2	1.62	0.64
1:k:64:THR:HG23	1:k:452:MET:HE3	1.78	0.64
1:m:109:GLN:HE22	1:r:494:GLU:HG3	1.61	0.64
1:p:109:GLN:HE22	1:s:494:GLU:HG3	1.61	0.64
1:z:222:PHE:HB2	1:4:515:HIS:HD1	1.63	0.64
1:5:174:GLU:OE2	1:7:287:ARG:NH1	2.31	0.64
1:K:515:HIS:HD1	1:L:222:PHE:HB2	1.63	0.64
1:V:254:ARG:N	1:V:538:ILE:O	2.27	0.64
1:W:64:THR:HG23	1:W:452:MET:HE3	1.78	0.64
1:b:64:THR:HG23	1:b:452:MET:HE3	1.78	0.64
1:g:174:GLU:OE2	1:h:287:ARG:NH1	2.31	0.64
1:q:424:PRO:CB	1:s:542:LEU:HD12	2.26	0.64
1:u:222:PHE:HB2	1:5:515:HIS:HD1	1.63	0.64
1:5:287:ARG:NH1	1:6:174:GLU:OE2	2.31	0.64
1:E:287:ARG:NH1	1:Q:174:GLU:OE2	2.31	0.64
1:F:222:PHE:HB2	1:R:515:HIS:HD1	1.63	0.64
1:H:515:HIS:HD1	1:I:222:PHE:HB2	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:222:PHE:HB2	1:l:515:HIS:HD1	1.63	0.64
1:q:515:HIS:HD1	1:y:222:PHE:HB2	1.63	0.64
1:w:254:ARG:N	1:w:538:ILE:O	2.27	0.64
1:w:287:ARG:NH1	1:x:174:GLU:OE2	2.31	0.64
1:6:64:THR:HG23	1:6:452:MET:HE3	1.78	0.64
1:K:174:GLU:OE2	1:8:287:ARG:NH1	2.31	0.64
1:O:515:HIS:HD1	1:P:222:PHE:HB2	1.63	0.64
1:T:222:PHE:HB2	1:i:515:HIS:HD1	1.63	0.64
1:Z:287:ARG:NH1	1:4:174:GLU:OE2	2.31	0.64
1:f:64:THR:HG23	1:f:452:MET:HE3	1.78	0.64
1:l:222:PHE:HB2	1:n:515:HIS:HD1	1.63	0.64
1:p:254:ARG:N	1:p:538:ILE:O	2.27	0.64
1:1:254:ARG:N	1:1:538:ILE:O	2.27	0.64
1:E:254:ARG:N	1:E:538:ILE:O	2.27	0.64
1:N:515:HIS:HD1	1:m:222:PHE:HB2	1.63	0.64
1:O:222:PHE:HB2	1:d:515:HIS:HD1	1.63	0.64
1:O:424:PRO:CB	1:n:542:LEU:HD11	2.20	0.64
1:l:64:THR:HG23	1:l:452:MET:HE3	1.78	0.64
1:p:222:PHE:HB2	1:6:515:HIS:HD1	1.63	0.64
1:2:515:HIS:HD1	1:3:222:PHE:HB2	1.63	0.64
1:A:174:GLU:OE2	1:I:287:ARG:NH1	2.32	0.63
1:B:254:ARG:N	1:B:538:ILE:O	2.27	0.63
1:F:515:HIS:HD1	1:G:222:PHE:HB2	1.63	0.63
1:I:40:THR:HG21	1:I:238:SER:HB3	1.81	0.63
1:J:515:HIS:HD1	1:a:222:PHE:HB2	1.63	0.63
1:O:40:THR:HG21	1:O:238:SER:HB3	1.80	0.63
1:O:64:THR:HG23	1:O:452:MET:HE3	1.78	0.63
1:S:40:THR:HG21	1:S:238:SER:HB3	1.81	0.63
1:U:515:HIS:HD1	1:e:222:PHE:HB2	1.63	0.63
1:f:40:THR:HG21	1:f:238:SER:HB3	1.80	0.63
1:g:222:PHE:HB2	1:k:515:HIS:HD1	1.62	0.63
1:j:287:ARG:NH1	1:k:174:GLU:OE2	2.31	0.63
1:k:254:ARG:N	1:k:538:ILE:O	2.27	0.63
1:l:40:THR:HG21	1:l:238:SER:HB3	1.80	0.63
1:u:40:THR:HG21	1:u:238:SER:HB3	1.81	0.63
1:B:174:GLU:OE2	1:L:287:ARG:NH1	2.31	0.63
1:D:174:GLU:OE2	1:P:287:ARG:NH1	2.31	0.63
1:E:40:THR:HG21	1:E:238:SER:HB3	1.81	0.63
1:O:287:ARG:NH1	1:m:174:GLU:OE2	2.31	0.63
1:R:40:THR:HG21	1:R:238:SER:HB3	1.80	0.63
1:T:174:GLU:OE2	1:l:287:ARG:NH1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:174:GLU:OE2	1:X:287:ARG:NH1	2.30	0.63
1:W:542:LEU:HD12	1:Y:424:PRO:CB	2.25	0.63
1:Z:40:THR:HG21	1:Z:238:SER:HB3	1.80	0.63
1:b:40:THR:HG21	1:b:238:SER:HB3	1.80	0.63
1:c:174:GLU:OE2	1:p:287:ARG:NH1	2.32	0.63
1:c:222:PHE:HB2	1:s:515:HIS:HD1	1.63	0.63
1:d:542:LEU:HD11	1:l:424:PRO:CB	2.20	0.63
1:r:40:THR:HG21	1:r:238:SER:HB3	1.81	0.63
1:t:222:PHE:HB2	1:y:515:HIS:HD1	1.63	0.63
1:u:287:ARG:NH1	1:v:174:GLU:OE2	2.32	0.63
1:v:40:THR:HG21	1:v:238:SER:HB3	1.80	0.63
1:6:40:THR:HG21	1:6:238:SER:HB3	1.80	0.63
1:8:40:THR:HG21	1:8:238:SER:HB3	1.81	0.63
1:A:40:THR:HG21	1:A:238:SER:HB3	1.80	0.63
1:C:222:PHE:HB2	1:D:515:HIS:HD1	1.62	0.63
1:F:174:GLU:OE2	1:Q:287:ARG:NH1	2.32	0.63
1:H:222:PHE:HB2	1:Z:515:HIS:HD1	1.63	0.63
1:K:222:PHE:HB2	1:7:515:HIS:HD1	1.62	0.63
1:S:515:HIS:HD1	1:d:222:PHE:HB2	1.63	0.63
1:T:515:HIS:HD1	1:U:222:PHE:HB2	1.63	0.63
1:V:287:ARG:NH1	1:e:174:GLU:OE2	2.32	0.63
1:n:222:PHE:HB2	1:r:515:HIS:HD1	1.63	0.63
1:q:40:THR:HG21	1:q:238:SER:HB3	1.81	0.63
1:w:40:THR:HG21	1:w:238:SER:HB3	1.81	0.63
1:x:287:ARG:NH1	1:y:174:GLU:OE2	2.32	0.63
1:z:287:ARG:NH1	1:1:174:GLU:OE2	2.32	0.63
1:z:424:PRO:CB	1:2:542:LEU:HD11	2.20	0.63
1:D:254:ARG:N	1:D:538:ILE:O	2.27	0.63
1:m:515:HIS:HD1	1:s:222:PHE:HB2	1.63	0.63
1:o:287:ARG:NH1	1:p:174:GLU:OE2	2.31	0.63
1:v:222:PHE:HB2	1:1:515:HIS:HD1	1.63	0.63
1:z:542:LEU:HD11	1:1:424:PRO:CB	2.20	0.63
1:B:424:PRO:CB	1:L:542:LEU:HD11	2.20	0.63
1:N:40:THR:HG21	1:N:238:SER:HB3	1.80	0.63
1:O:174:GLU:OE2	1:n:287:ARG:NH1	2.32	0.63
1:R:174:GLU:OE2	1:U:287:ARG:NH1	2.31	0.63
1:R:287:ARG:NH1	1:S:174:GLU:OE2	2.31	0.63
1:T:542:LEU:HD11	1:d:424:PRO:CB	2.20	0.63
1:V:40:THR:HG21	1:V:238:SER:HB3	1.81	0.63
1:W:40:THR:HG21	1:W:238:SER:HB3	1.81	0.63
1:d:287:ARG:NH1	1:l:174:GLU:OE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:40:THR:HG21	1:p:238:SER:HB3	1.81	0.63
1:q:174:GLU:OE2	1:s:287:ARG:NH1	2.31	0.63
1:t:287:ARG:NH1	1:u:174:GLU:OE2	2.31	0.63
1:x:542:LEU:HD11	1:y:424:PRO:CB	2.20	0.63
1:1:287:ARG:NH1	1:2:174:GLU:OE2	2.31	0.63
1:5:222:PHE:HB2	1:8:515:HIS:HD1	1.63	0.63
1:B:287:ARG:NH1	1:J:174:GLU:OE2	2.31	0.63
1:G:287:ARG:NH1	1:I:174:GLU:OE2	2.31	0.63
1:J:542:LEU:HD11	1:L:424:PRO:CB	2.20	0.63
1:X:174:GLU:OE2	1:e:287:ARG:NH1	2.32	0.63
1:c:287:ARG:NH1	1:o:174:GLU:OE2	2.32	0.63
1:d:254:ARG:N	1:d:538:ILE:O	2.27	0.63
1:i:40:THR:HG21	1:i:238:SER:HB3	1.80	0.63
1:n:254:ARG:N	1:n:538:ILE:O	2.27	0.63
1:q:287:ARG:NH1	1:r:174:GLU:OE2	2.31	0.63
1:2:254:ARG:N	1:2:538:ILE:O	2.27	0.63
1:3:515:HIS:HD1	1:8:222:PHE:HB2	1.63	0.63
1:H:287:ARG:NH1	1:W:174:GLU:OE2	2.32	0.63
1:M:174:GLU:OE2	1:b:287:ARG:NH1	2.32	0.63
1:N:287:ARG:NH1	1:P:174:GLU:OE2	2.31	0.63
1:T:287:ARG:NH1	1:d:174:GLU:OE2	2.32	0.63
1:a:287:ARG:NH1	1:8:174:GLU:OE2	2.32	0.63
1:g:40:THR:HG21	1:g:238:SER:HB3	1.81	0.63
1:i:287:ARG:NH1	1:j:174:GLU:OE2	2.31	0.63
1:m:287:ARG:NH1	1:n:174:GLU:OE2	2.32	0.63
1:3:424:PRO:CB	1:4:542:LEU:HD12	2.26	0.63
1:A:222:PHE:HB2	1:B:515:HIS:HD1	1.63	0.63
1:K:542:LEU:HD12	1:a:424:PRO:CB	2.26	0.63
1:Z:174:GLU:OE2	1:3:287:ARG:NH1	2.32	0.63
1:f:287:ARG:NH1	1:h:174:GLU:OE2	2.32	0.63
1:k:40:THR:HG21	1:k:238:SER:HB3	1.81	0.63
1:m:127:GLN:NE2	1:m:240:GLU:OE2	2.32	0.63
1:q:424:PRO:CB	1:s:542:LEU:HD11	2.20	0.63
1:3:40:THR:HG21	1:3:238:SER:HB3	1.80	0.63
1:6:287:ARG:NH1	1:7:174:GLU:OE2	2.31	0.63
1:A:424:PRO:CB	1:I:542:LEU:HD12	2.26	0.63
1:B:40:THR:HG21	1:B:238:SER:HB3	1.81	0.63
1:I:127:GLN:NE2	1:I:240:GLU:OE2	2.32	0.63
1:J:254:ARG:N	1:J:538:ILE:O	2.27	0.63
1:P:515:HIS:HD1	1:Q:222:PHE:HB2	1.63	0.63
1:T:127:GLN:NE2	1:T:240:GLU:OE2	2.32	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:222:PHE:HB2	1:z:515:HIS:HD1	1.63	0.63
1:j:515:HIS:HD1	1:x:222:PHE:HB2	1.63	0.63
1:u:127:GLN:NE2	1:u:240:GLU:OE2	2.32	0.63
1:u:542:LEU:HD12	1:v:424:PRO:CB	2.26	0.63
1:v:452:MET:HE1	1:v:471:CYS:HB3	1.81	0.63
1:1:40:THR:HG21	1:1:238:SER:HB3	1.81	0.63
1:3:174:GLU:OE2	1:4:287:ARG:NH1	2.31	0.63
1:C:40:THR:HG21	1:C:238:SER:HB3	1.81	0.62
1:C:452:MET:HE1	1:C:471:CYS:HB3	1.82	0.62
1:D:40:THR:HG21	1:D:238:SER:HB3	1.81	0.62
1:F:424:PRO:CB	1:Q:542:LEU:HD11	2.20	0.62
1:Z:542:LEU:HD12	1:4:424:PRO:CB	2.26	0.62
1:a:40:THR:HG21	1:a:238:SER:HB3	1.80	0.62
1:c:254:ARG:N	1:c:538:ILE:O	2.27	0.62
1:m:542:LEU:HD11	1:n:424:PRO:CB	2.20	0.62
1:o:515:HIS:HD1	1:7:222:PHE:HB2	1.64	0.62
1:z:40:THR:HG21	1:z:238:SER:HB3	1.80	0.62
1:8:452:MET:HE1	1:8:471:CYS:HB3	1.82	0.62
1:A:452:MET:HE1	1:A:471:CYS:HB3	1.82	0.62
1:C:98:ASN:ND2	1:C:175:ASP:OD1	2.33	0.62
1:L:40:THR:HG21	1:L:238:SER:HB3	1.81	0.62
1:M:222:PHE:HB2	1:c:515:HIS:HD1	1.63	0.62
1:P:452:MET:HE1	1:P:471:CYS:HB3	1.82	0.62
1:U:40:THR:HG21	1:U:238:SER:HB3	1.81	0.62
1:V:452:MET:HE1	1:V:471:CYS:HB3	1.81	0.62
1:Z:452:MET:HE1	1:Z:471:CYS:HB3	1.82	0.62
1:a:98:ASN:ND2	1:a:175:ASP:OD1	2.33	0.62
1:b:127:GLN:NE2	1:b:240:GLU:OE2	2.32	0.62
1:e:515:HIS:HD1	1:h:222:PHE:HB2	1.63	0.62
1:f:127:GLN:NE2	1:f:240:GLU:OE2	2.32	0.62
1:g:98:ASN:ND2	1:g:175:ASP:OD1	2.33	0.62
1:g:452:MET:HE1	1:g:471:CYS:HB3	1.82	0.62
1:g:515:HIS:HD1	1:1:222:PHE:HB2	1.63	0.62
1:j:452:MET:HE1	1:j:471:CYS:HB3	1.82	0.62
1:t:174:GLU:OE2	1:v:287:ARG:NH1	2.32	0.62
1:y:452:MET:HE1	1:y:471:CYS:HB3	1.81	0.62
1:1:542:LEU:HD12	1:2:424:PRO:CB	2.26	0.62
1:A:98:ASN:ND2	1:A:175:ASP:OD1	2.33	0.62
1:B:98:ASN:ND2	1:B:175:ASP:OD1	2.33	0.62
1:B:542:LEU:HD12	1:J:424:PRO:CB	2.26	0.62
1:K:287:ARG:NH1	1:a:174:GLU:OE2	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:424:PRO:CB	1:8:542:LEU:HD12	2.26	0.62
1:L:515:HIS:HD1	1:b:222:PHE:HB2	1.63	0.62
1:Q:98:ASN:ND2	1:Q:175:ASP:OD1	2.33	0.62
1:R:424:PRO:CB	1:U:542:LEU:HD11	2.20	0.62
1:n:40:THR:HG21	1:n:238:SER:HB3	1.80	0.62
1:p:452:MET:HE1	1:p:471:CYS:HB3	1.82	0.62
1:r:98:ASN:ND2	1:r:175:ASP:OD1	2.33	0.62
1:s:40:THR:HG21	1:s:238:SER:HB3	1.80	0.62
1:t:40:THR:HG21	1:t:238:SER:HB3	1.81	0.62
1:x:98:ASN:ND2	1:x:175:ASP:OD1	2.33	0.62
1:z:174:GLU:OE2	1:2:287:ARG:NH1	2.32	0.62
1:1:98:ASN:ND2	1:1:175:ASP:OD1	2.33	0.62
1:3:98:ASN:ND2	1:3:175:ASP:OD1	2.33	0.62
1:E:98:ASN:ND2	1:E:175:ASP:OD1	2.33	0.62
1:F:452:MET:HE1	1:F:471:CYS:HB3	1.82	0.62
1:G:40:THR:HG21	1:G:238:SER:HB3	1.81	0.62
1:J:287:ARG:NH1	1:L:174:GLU:OE2	2.32	0.62
1:S:98:ASN:ND2	1:S:175:ASP:OD1	2.33	0.62
1:c:98:ASN:ND2	1:c:175:ASP:OD1	2.33	0.62
1:q:254:ARG:N	1:q:538:ILE:O	2.27	0.62
1:v:98:ASN:ND2	1:v:175:ASP:OD1	2.33	0.62
1:B:127:GLN:NE2	1:B:240:GLU:OE2	2.32	0.62
1:B:222:PHE:HB2	1:C:515:HIS:HD1	1.63	0.62
1:G:516:VAL:HG23	1:W:74:THR:HG23	1.82	0.62
1:M:515:HIS:HD1	1:N:222:PHE:HB2	1.63	0.62
1:Z:127:GLN:NE2	1:Z:240:GLU:OE2	2.32	0.62
1:a:254:ARG:N	1:a:538:ILE:O	2.27	0.62
1:d:40:THR:HG21	1:d:238:SER:HB3	1.80	0.62
1:e:98:ASN:ND2	1:e:175:ASP:OD1	2.33	0.62
1:h:515:HIS:HD1	1:i:222:PHE:HB2	1.63	0.62
1:t:452:MET:HE1	1:t:471:CYS:HB3	1.81	0.62
1:z:127:GLN:NE2	1:z:240:GLU:OE2	2.32	0.62
1:6:452:MET:HE1	1:6:471:CYS:HB3	1.81	0.62
1:B:452:MET:HE1	1:B:471:CYS:HB3	1.82	0.62
1:E:452:MET:HE1	1:E:471:CYS:HB3	1.81	0.62
1:G:452:MET:HE1	1:G:471:CYS:HB3	1.82	0.62
1:J:40:THR:HG21	1:J:238:SER:HB3	1.80	0.62
1:J:542:LEU:HD12	1:L:424:PRO:CB	2.26	0.62
1:K:98:ASN:ND2	1:K:175:ASP:OD1	2.33	0.62
1:L:127:GLN:NE2	1:L:240:GLU:OE2	2.32	0.62
1:W:452:MET:HE1	1:W:471:CYS:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:40:THR:HG21	1:Y:238:SER:HB3	1.81	0.62
1:f:174:GLU:OE2	1:g:287:ARG:NH1	2.32	0.62
1:j:254:ARG:N	1:j:538:ILE:O	2.27	0.62
1:l:98:ASN:ND2	1:l:175:ASP:OD1	2.33	0.62
1:u:515:HIS:HD1	1:2:222:PHE:HB2	1.63	0.62
1:w:98:ASN:ND2	1:w:175:ASP:OD1	2.33	0.62
1:w:452:MET:HE1	1:w:471:CYS:HB3	1.81	0.62
1:z:254:ARG:N	1:z:538:ILE:O	2.27	0.62
1:1:127:GLN:NE2	1:1:240:GLU:OE2	2.32	0.62
1:4:98:ASN:ND2	1:4:175:ASP:OD1	2.33	0.62
1:7:40:THR:HG21	1:7:238:SER:HB3	1.80	0.62
1:8:127:GLN:NE2	1:8:240:GLU:OE2	2.32	0.62
1:C:287:ARG:NH1	1:b:174:GLU:OE2	2.32	0.62
1:D:452:MET:HE1	1:D:471:CYS:HB3	1.82	0.62
1:F:127:GLN:NE2	1:F:240:GLU:OE2	2.32	0.62
1:H:127:GLN:NE2	1:H:240:GLU:OE2	2.32	0.62
1:O:98:ASN:ND2	1:O:175:ASP:OD1	2.33	0.62
1:S:287:ARG:NH1	1:U:174:GLU:OE2	2.32	0.62
1:X:222:PHE:HB2	1:f:515:HIS:HD1	1.63	0.62
1:Z:424:PRO:CB	1:3:542:LEU:HD12	2.26	0.62
1:a:127:GLN:NE2	1:a:240:GLU:OE2	2.32	0.62
1:a:542:LEU:HD12	1:8:424:PRO:CB	2.26	0.62
1:c:40:THR:HG21	1:c:238:SER:HB3	1.80	0.62
1:d:98:ASN:ND2	1:d:175:ASP:OD1	2.33	0.62
1:e:40:THR:HG21	1:e:238:SER:HB3	1.80	0.62
1:k:452:MET:HE1	1:k:471:CYS:HB3	1.82	0.62
1:w:174:GLU:OE2	1:y:287:ARG:NH1	2.32	0.62
1:1:452:MET:HE1	1:1:471:CYS:HB3	1.82	0.62
1:5:127:GLN:NE2	1:5:240:GLU:OE2	2.32	0.62
1:6:542:LEU:HD12	1:7:424:PRO:CB	2.26	0.62
1:E:174:GLU:OE2	1:F:287:ARG:NH1	2.32	0.62
1:L:98:ASN:ND2	1:L:175:ASP:OD1	2.33	0.62
1:R:254:ARG:N	1:R:538:ILE:O	2.27	0.62
1:X:127:GLN:NE2	1:X:240:GLU:OE2	2.32	0.62
1:b:515:HIS:HD1	1:o:222:PHE:HB2	1.63	0.62
1:n:98:ASN:ND2	1:n:175:ASP:OD1	2.33	0.62
1:o:127:GLN:NE2	1:o:240:GLU:OE2	2.32	0.62
1:p:515:HIS:HD1	1:q:222:PHE:HB2	1.63	0.62
1:y:40:THR:HG21	1:y:238:SER:HB3	1.80	0.62
1:z:98:ASN:ND2	1:z:175:ASP:OD1	2.33	0.62
1:2:40:THR:HG21	1:2:238:SER:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:254:ARG:N	1:3:538:ILE:O	2.27	0.62
1:5:40:THR:HG21	1:5:238:SER:HB3	1.80	0.62
1:8:98:ASN:ND2	1:8:175:ASP:OD1	2.33	0.62
1:F:40:THR:HG21	1:F:238:SER:HB3	1.80	0.62
1:L:254:ARG:N	1:L:538:ILE:O	2.27	0.62
1:P:254:ARG:N	1:P:538:ILE:O	2.27	0.62
1:S:452:MET:HE1	1:S:471:CYS:HB3	1.82	0.62
1:U:98:ASN:ND2	1:U:175:ASP:OD1	2.33	0.62
1:V:74:THR:HG23	1:W:516:VAL:HG23	1.82	0.62
1:Z:98:ASN:ND2	1:Z:175:ASP:OD1	2.33	0.62
1:i:127:GLN:NE2	1:i:240:GLU:OE2	2.32	0.62
1:r:287:ARG:NH1	1:s:174:GLU:OE2	2.32	0.62
1:s:98:ASN:ND2	1:s:175:ASP:OD1	2.33	0.62
1:s:254:ARG:N	1:s:538:ILE:O	2.27	0.62
1:y:127:GLN:NE2	1:y:240:GLU:OE2	2.32	0.62
1:z:424:PRO:CB	1:2:542:LEU:HD12	2.26	0.62
1:2:452:MET:HE1	1:2:471:CYS:HB3	1.82	0.62
1:3:127:GLN:NE2	1:3:240:GLU:OE2	2.32	0.62
1:7:98:ASN:ND2	1:7:175:ASP:OD1	2.33	0.62
1:A:287:ARG:NH1	1:G:174:GLU:OE2	2.32	0.62
1:H:98:ASN:ND2	1:H:175:ASP:OD1	2.33	0.62
1:I:515:HIS:HD1	1:J:222:PHE:HB2	1.63	0.62
1:J:452:MET:HE1	1:J:471:CYS:HB3	1.82	0.62
1:M:40:THR:HG21	1:M:238:SER:HB3	1.81	0.62
1:M:98:ASN:ND2	1:M:175:ASP:OD1	2.33	0.62
1:N:127:GLN:NE2	1:N:240:GLU:OE2	2.32	0.62
1:Q:40:THR:HG21	1:Q:238:SER:HB3	1.81	0.62
1:R:127:GLN:NE2	1:R:240:GLU:OE2	2.32	0.62
1:R:222:PHE:HB2	1:V:515:HIS:HD1	1.63	0.62
1:W:127:GLN:NE2	1:W:240:GLU:OE2	2.32	0.62
1:X:424:PRO:CB	1:e:542:LEU:HD12	2.26	0.62
1:r:452:MET:HE1	1:r:471:CYS:HB3	1.82	0.62
1:w:127:GLN:NE2	1:w:240:GLU:OE2	2.32	0.62
1:x:40:THR:HG21	1:x:238:SER:HB3	1.81	0.62
1:5:98:ASN:ND2	1:5:175:ASP:OD1	2.33	0.62
1:E:127:GLN:NE2	1:E:240:GLU:OE2	2.32	0.61
1:H:40:THR:HG21	1:H:238:SER:HB3	1.81	0.61
1:H:199:LEU:HD11	1:H:325:PRO:HD2	1.82	0.61
1:H:424:PRO:CB	1:Y:542:LEU:HD12	2.24	0.61
1:N:98:ASN:ND2	1:N:175:ASP:OD1	2.33	0.61
1:O:452:MET:HE1	1:O:471:CYS:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:98:ASN:ND2	1:R:175:ASP:OD1	2.33	0.61
1:X:40:THR:HG21	1:X:238:SER:HB3	1.81	0.61
1:Y:98:ASN:ND2	1:Y:175:ASP:OD1	2.33	0.61
1:h:40:THR:HG21	1:h:238:SER:HB3	1.81	0.61
1:h:98:ASN:ND2	1:h:175:ASP:OD1	2.33	0.61
1:h:199:LEU:HD11	1:h:325:PRO:HD2	1.82	0.61
1:k:98:ASN:ND2	1:k:175:ASP:OD1	2.33	0.61
1:l:452:MET:HE1	1:l:471:CYS:HB3	1.82	0.61
1:m:98:ASN:ND2	1:m:175:ASP:OD1	2.33	0.61
1:o:40:THR:HG21	1:o:238:SER:HB3	1.80	0.61
1:o:254:ARG:N	1:o:538:ILE:O	2.27	0.61
1:5:542:LEU:HD11	1:6:424:PRO:CB	2.20	0.61
1:6:98:ASN:ND2	1:6:175:ASP:OD1	2.33	0.61
1:F:199:LEU:HD11	1:F:325:PRO:HD2	1.82	0.61
1:H:452:MET:HE1	1:H:471:CYS:HB3	1.81	0.61
1:M:199:LEU:HD11	1:M:325:PRO:HD2	1.83	0.61
1:T:98:ASN:ND2	1:T:175:ASP:OD1	2.33	0.61
1:T:199:LEU:HD11	1:T:325:PRO:HD2	1.83	0.61
1:U:254:ARG:N	1:U:538:ILE:O	2.27	0.61
1:W:98:ASN:ND2	1:W:175:ASP:OD1	2.33	0.61
1:b:98:ASN:ND2	1:b:175:ASP:OD1	2.33	0.61
1:m:199:LEU:HD11	1:m:325:PRO:HD2	1.83	0.61
1:q:98:ASN:ND2	1:q:175:ASP:OD1	2.33	0.61
1:q:127:GLN:NE2	1:q:240:GLU:OE2	2.32	0.61
1:r:127:GLN:NE2	1:r:240:GLU:OE2	2.32	0.61
1:t:127:GLN:NE2	1:t:240:GLU:OE2	2.32	0.61
1:w:424:PRO:CB	1:y:542:LEU:HD11	2.20	0.61
1:5:199:LEU:HD11	1:5:325:PRO:HD2	1.83	0.61
1:5:452:MET:HE1	1:5:471:CYS:HB3	1.82	0.61
1:A:515:HIS:HD1	1:E:222:PHE:HB2	1.64	0.61
1:B:424:PRO:CB	1:L:542:LEU:HD12	2.26	0.61
1:C:254:ARG:N	1:C:538:ILE:O	2.27	0.61
1:D:98:ASN:ND2	1:D:175:ASP:OD1	2.33	0.61
1:H:174:GLU:OE2	1:Y:287:ARG:NH1	2.33	0.61
1:K:127:GLN:NE2	1:K:240:GLU:OE2	2.32	0.61
1:S:127:GLN:NE2	1:S:240:GLU:OE2	2.32	0.61
1:S:516:VAL:HG23	1:d:74:THR:HG23	1.83	0.61
1:V:98:ASN:ND2	1:V:175:ASP:OD1	2.33	0.61
1:c:542:LEU:HD12	1:o:424:PRO:CB	2.27	0.61
1:e:127:GLN:NE2	1:e:240:GLU:OE2	2.32	0.61
1:f:98:ASN:ND2	1:f:175:ASP:OD1	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:98:ASN:ND2	1:i:175:ASP:OD1	2.33	0.61
1:p:98:ASN:ND2	1:p:175:ASP:OD1	2.33	0.61
1:v:127:GLN:NE2	1:v:240:GLU:OE2	2.32	0.61
1:y:199:LEU:HD11	1:y:325:PRO:HD2	1.83	0.61
1:z:542:LEU:HD12	1:1:424:PRO:CB	2.26	0.61
1:6:127:GLN:NE2	1:6:240:GLU:OE2	2.32	0.61
1:G:127:GLN:NE2	1:G:240:GLU:OE2	2.32	0.61
1:R:199:LEU:HD11	1:R:325:PRO:HD2	1.83	0.61
1:X:98:ASN:ND2	1:X:175:ASP:OD1	2.33	0.61
1:X:452:MET:HE1	1:X:471:CYS:HB3	1.82	0.61
1:a:199:LEU:HD11	1:a:325:PRO:HD2	1.82	0.61
1:n:74:THR:HG23	1:r:516:VAL:HG23	1.83	0.61
1:o:452:MET:HE1	1:o:471:CYS:HB3	1.81	0.61
1:p:74:THR:HG23	1:6:516:VAL:HG23	1.83	0.61
1:q:199:LEU:HD11	1:q:325:PRO:HD2	1.83	0.61
1:u:98:ASN:ND2	1:u:175:ASP:OD1	2.33	0.61
1:z:452:MET:HE1	1:z:471:CYS:HB3	1.81	0.61
1:1:199:LEU:HD11	1:1:325:PRO:HD2	1.83	0.61
1:A:127:GLN:NE2	1:A:240:GLU:OE2	2.32	0.61
1:I:98:ASN:ND2	1:I:175:ASP:OD1	2.33	0.61
1:K:452:MET:HE1	1:K:471:CYS:HB3	1.82	0.61
1:N:452:MET:HE1	1:N:471:CYS:HB3	1.81	0.61
1:P:127:GLN:NE2	1:P:240:GLU:OE2	2.32	0.61
1:P:199:LEU:HD11	1:P:325:PRO:HD2	1.82	0.61
1:Q:127:GLN:NE2	1:Q:240:GLU:OE2	2.32	0.61
1:X:199:LEU:HD11	1:X:325:PRO:HD2	1.83	0.61
1:g:254:ARG:N	1:g:538:ILE:O	2.27	0.61
1:o:98:ASN:ND2	1:o:175:ASP:OD1	2.33	0.61
1:o:199:LEU:HD11	1:o:325:PRO:HD2	1.83	0.61
1:t:516:VAL:HG23	1:6:74:THR:HG23	1.83	0.61
1:u:199:LEU:HD11	1:u:325:PRO:HD2	1.83	0.61
1:x:127:GLN:NE2	1:x:240:GLU:OE2	2.32	0.61
1:2:516:VAL:HG23	1:3:74:THR:HG23	1.83	0.61
1:4:127:GLN:NE2	1:4:240:GLU:OE2	2.32	0.61
1:4:452:MET:HE1	1:4:471:CYS:HB3	1.82	0.61
1:B:199:LEU:HD11	1:B:325:PRO:HD2	1.83	0.61
1:E:424:PRO:CB	1:F:542:LEU:HD11	2.20	0.61
1:I:199:LEU:HD11	1:I:325:PRO:HD2	1.83	0.61
1:J:98:ASN:ND2	1:J:175:ASP:OD1	2.33	0.61
1:P:98:ASN:ND2	1:P:175:ASP:OD1	2.33	0.61
1:U:199:LEU:HD11	1:U:325:PRO:HD2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:452:MET:HE1	1:e:471:CYS:HB3	1.82	0.61
1:i:452:MET:HE1	1:i:471:CYS:HB3	1.81	0.61
1:j:127:GLN:NE2	1:j:240:GLU:OE2	2.32	0.61
1:j:199:LEU:HD11	1:j:325:PRO:HD2	1.83	0.61
1:r:254:ARG:N	1:r:538:ILE:O	2.27	0.61
1:s:452:MET:HE1	1:s:471:CYS:HB3	1.81	0.61
1:t:199:LEU:HD11	1:t:325:PRO:HD2	1.83	0.61
1:u:516:VAL:HG23	1:2:74:THR:HG23	1.83	0.61
1:x:199:LEU:HD11	1:x:325:PRO:HD2	1.83	0.61
1:3:199:LEU:HD11	1:3:325:PRO:HD2	1.83	0.61
1:7:127:GLN:NE2	1:7:240:GLU:OE2	2.32	0.61
1:D:287:ARG:NH1	1:N:174:GLU:OE2	2.33	0.61
1:G:199:LEU:HD11	1:G:325:PRO:HD2	1.83	0.61
1:I:516:VAL:HG23	1:J:74:THR:HG23	1.83	0.61
1:J:516:VAL:HG23	1:a:74:THR:HG23	1.83	0.61
1:L:452:MET:HE1	1:L:471:CYS:HB3	1.82	0.61
1:M:127:GLN:NE2	1:M:240:GLU:OE2	2.32	0.61
1:Q:199:LEU:HD11	1:Q:325:PRO:HD2	1.83	0.61
1:Y:452:MET:HE1	1:Y:471:CYS:HB3	1.82	0.61
1:c:452:MET:HE1	1:c:471:CYS:HB3	1.82	0.61
1:d:199:LEU:HD11	1:d:325:PRO:HD2	1.82	0.61
1:d:452:MET:HE1	1:d:471:CYS:HB3	1.82	0.61
1:j:98:ASN:ND2	1:j:175:ASP:OD1	2.33	0.61
1:n:199:LEU:HD11	1:n:325:PRO:HD2	1.82	0.61
1:s:199:LEU:HD11	1:s:325:PRO:HD2	1.82	0.61
1:w:542:LEU:HD11	1:x:424:PRO:CB	2.20	0.61
1:x:452:MET:HE1	1:x:471:CYS:HB3	1.81	0.61
1:y:98:ASN:ND2	1:y:175:ASP:OD1	2.33	0.61
1:1:542:LEU:HD11	1:2:424:PRO:CB	2.20	0.61
1:2:98:ASN:ND2	1:2:175:ASP:OD1	2.33	0.61
1:7:452:MET:HE1	1:7:471:CYS:HB3	1.82	0.61
1:H:542:LEU:HD11	1:W:424:PRO:CB	2.20	0.61
1:M:452:MET:HE1	1:M:471:CYS:HB3	1.82	0.61
1:S:254:ARG:N	1:S:538:ILE:O	2.27	0.61
1:U:452:MET:HE1	1:U:471:CYS:HB3	1.82	0.61
1:Y:127:GLN:NE2	1:Y:240:GLU:OE2	2.32	0.61
1:a:452:MET:HE1	1:a:471:CYS:HB3	1.82	0.61
1:h:127:GLN:NE2	1:h:240:GLU:OE2	2.32	0.61
1:i:174:GLU:OE2	1:k:287:ARG:NH1	2.33	0.61
1:j:40:THR:HG21	1:j:238:SER:HB3	1.80	0.61
1:u:452:MET:HE1	1:u:471:CYS:HB3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:199:LEU:HD11	1:7:325:PRO:HD2	1.83	0.61
1:F:98:ASN:ND2	1:F:175:ASP:OD1	2.33	0.61
1:K:40:THR:HG21	1:K:238:SER:HB3	1.81	0.61
1:P:40:THR:HG21	1:P:238:SER:HB3	1.80	0.61
1:Y:199:LEU:HD11	1:Y:325:PRO:HD2	1.83	0.61
1:h:254:ARG:N	1:h:538:ILE:O	2.27	0.61
1:h:452:MET:HE1	1:h:471:CYS:HB3	1.82	0.61
1:n:452:MET:HE1	1:n:471:CYS:HB3	1.82	0.61
1:A:291:TYR:OH	1:G:313:SER:O	2.16	0.61
1:I:452:MET:HE1	1:I:471:CYS:HB3	1.81	0.61
1:O:74:THR:HG23	1:d:516:VAL:HG23	1.83	0.61
1:Q:452:MET:HE1	1:Q:471:CYS:HB3	1.82	0.61
1:c:127:GLN:NE2	1:c:240:GLU:OE2	2.32	0.61
1:d:127:GLN:NE2	1:d:240:GLU:OE2	2.32	0.61
1:l:74:THR:HG23	1:n:516:VAL:HG23	1.83	0.61
1:q:542:LEU:HD11	1:r:424:PRO:CB	2.20	0.61
1:r:542:LEU:HD11	1:s:424:PRO:CB	2.20	0.61
1:s:127:GLN:NE2	1:s:240:GLU:OE2	2.32	0.61
1:3:452:MET:HE1	1:3:471:CYS:HB3	1.82	0.61
1:4:40:THR:HG21	1:4:238:SER:HB3	1.81	0.61
1:B:542:LEU:HD11	1:J:424:PRO:CB	2.20	0.60
1:C:74:THR:HG23	1:D:516:VAL:HG23	1.82	0.60
1:C:199:LEU:HD11	1:C:325:PRO:HD2	1.83	0.60
1:D:127:GLN:NE2	1:D:240:GLU:OE2	2.32	0.60
1:E:542:LEU:HD11	1:Q:424:PRO:CB	2.20	0.60
1:g:74:THR:HG23	1:k:516:VAL:HG23	1.82	0.60
1:g:199:LEU:HD11	1:g:325:PRO:HD2	1.83	0.60
1:g:516:VAL:HG23	1:l:74:THR:HG23	1.83	0.60
1:k:127:GLN:NE2	1:k:240:GLU:OE2	2.32	0.60
1:l:254:ARG:N	1:l:538:ILE:O	2.27	0.60
1:m:40:THR:HG21	1:m:238:SER:HB3	1.81	0.60
1:p:115:THR:O	1:p:252:ASN:ND2	2.32	0.60
1:p:199:LEU:HD11	1:p:325:PRO:HD2	1.82	0.60
1:7:502:MET:HE3	1:8:493:PRO:HG2	1.83	0.60
1:8:199:LEU:HD11	1:8:325:PRO:HD2	1.82	0.60
1:B:74:THR:HG23	1:C:516:VAL:HG23	1.83	0.60
1:G:98:ASN:ND2	1:G:175:ASP:OD1	2.33	0.60
1:H:424:PRO:CB	1:Y:542:LEU:HD11	2.18	0.60
1:H:516:VAL:HG23	1:I:74:THR:HG23	1.83	0.60
1:L:516:VAL:HG23	1:b:74:THR:HG23	1.83	0.60
1:O:254:ARG:N	1:O:538:ILE:O	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:127:GLN:NE2	1:U:240:GLU:OE2	2.32	0.60
1:U:493:PRO:HG2	1:V:502:MET:HE3	1.83	0.60
1:V:199:LEU:HD11	1:V:325:PRO:HD2	1.83	0.60
1:i:199:LEU:HD11	1:i:325:PRO:HD2	1.83	0.60
1:n:127:GLN:NE2	1:n:240:GLU:OE2	2.32	0.60
1:p:502:MET:HE3	1:s:493:PRO:HG2	1.83	0.60
1:t:98:ASN:ND2	1:t:175:ASP:OD1	2.33	0.60
1:t:254:ARG:N	1:t:538:ILE:O	2.27	0.60
1:3:115:THR:O	1:3:252:ASN:ND2	2.32	0.60
1:F:74:THR:HG23	1:R:516:VAL:HG23	1.83	0.60
1:F:115:THR:O	1:F:252:ASN:ND2	2.32	0.60
1:K:516:VAL:HG23	1:L:74:THR:HG23	1.82	0.60
1:M:254:ARG:N	1:M:538:ILE:O	2.27	0.60
1:N:199:LEU:HD11	1:N:325:PRO:HD2	1.83	0.60
1:Q:115:THR:O	1:Q:252:ASN:ND2	2.32	0.60
1:R:452:MET:HE1	1:R:471:CYS:HB3	1.81	0.60
1:T:40:THR:HG21	1:T:238:SER:HB3	1.81	0.60
1:V:115:THR:O	1:V:252:ASN:ND2	2.32	0.60
1:Z:199:LEU:HD11	1:Z:325:PRO:HD2	1.83	0.60
1:c:313:SER:O	1:p:291:TYR:OH	2.16	0.60
1:f:313:SER:O	1:g:291:TYR:OH	2.16	0.60
1:f:452:MET:HE1	1:f:471:CYS:HB3	1.82	0.60
1:o:516:VAL:HG23	1:7:74:THR:HG23	1.83	0.60
1:u:74:THR:HG23	1:5:516:VAL:HG23	1.83	0.60
1:y:115:THR:O	1:y:252:ASN:ND2	2.32	0.60
1:J:127:GLN:NE2	1:J:240:GLU:OE2	2.32	0.60
1:K:199:LEU:HD11	1:K:325:PRO:HD2	1.83	0.60
1:V:291:TYR:OH	1:e:313:SER:O	2.16	0.60
1:X:115:THR:O	1:X:252:ASN:ND2	2.33	0.60
1:b:452:MET:HE1	1:b:471:CYS:HB3	1.82	0.60
1:b:493:PRO:HG2	1:c:502:MET:HE3	1.84	0.60
1:c:424:PRO:CB	1:p:542:LEU:HD11	2.20	0.60
1:f:74:THR:HG23	1:z:516:VAL:HG23	1.83	0.60
1:m:452:MET:HE1	1:m:471:CYS:HB3	1.81	0.60
1:n:115:THR:O	1:n:252:ASN:ND2	2.32	0.60
1:q:516:VAL:HG23	1:y:74:THR:HG23	1.83	0.60
1:t:313:SER:O	1:v:291:TYR:OH	2.16	0.60
1:u:254:ARG:N	1:u:538:ILE:O	2.27	0.60
1:A:199:LEU:HD11	1:A:325:PRO:HD2	1.82	0.60
1:C:291:TYR:OH	1:b:313:SER:O	2.16	0.60
1:D:74:THR:HG23	1:E:516:VAL:HG23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:199:LEU:HD11	1:O:325:PRO:HD2	1.82	0.60
1:R:542:LEU:HD11	1:S:424:PRO:CB	2.20	0.60
1:S:542:LEU:HD11	1:U:424:PRO:CB	2.20	0.60
1:T:452:MET:HE1	1:T:471:CYS:HB3	1.81	0.60
1:V:542:LEU:HD11	1:e:424:PRO:CB	2.20	0.60
1:Y:516:VAL:HG23	1:4:74:THR:HG23	1.82	0.60
1:a:115:THR:O	1:a:252:ASN:ND2	2.32	0.60
1:e:502:MET:HE3	1:f:493:PRO:HG2	1.84	0.60
1:o:115:THR:O	1:o:252:ASN:ND2	2.33	0.60
1:q:452:MET:HE1	1:q:471:CYS:HB3	1.82	0.60
1:v:199:LEU:HD11	1:v:325:PRO:HD2	1.83	0.60
1:1:291:TYR:OH	1:2:313:SER:O	2.17	0.60
1:3:516:VAL:HG23	1:8:74:THR:HG23	1.83	0.60
1:4:199:LEU:HD11	1:4:325:PRO:HD2	1.83	0.60
1:6:199:LEU:HD11	1:6:325:PRO:HD2	1.82	0.60
1:C:222:PHE:HB2	1:D:515:HIS:ND1	2.17	0.60
1:C:493:PRO:HG2	1:L:502:MET:HE3	1.84	0.60
1:D:199:LEU:HD11	1:D:325:PRO:HD2	1.82	0.60
1:D:424:PRO:CB	1:P:542:LEU:HD12	2.26	0.60
1:H:115:THR:O	1:H:252:ASN:ND2	2.32	0.60
1:L:199:LEU:HD11	1:L:325:PRO:HD2	1.82	0.60
1:Q:502:MET:HE3	1:R:493:PRO:HG2	1.83	0.60
1:X:515:HIS:ND1	1:Y:222:PHE:HB2	2.16	0.60
1:f:199:LEU:HD11	1:f:325:PRO:HD2	1.82	0.60
1:g:222:PHE:HB2	1:k:515:HIS:ND1	2.17	0.60
1:k:74:THR:HG23	1:w:516:VAL:HG23	1.83	0.60
1:k:199:LEU:HD11	1:k:325:PRO:HD2	1.82	0.60
1:l:199:LEU:HD11	1:l:325:PRO:HD2	1.82	0.60
1:v:516:VAL:HG23	1:w:74:THR:HG23	1.83	0.60
1:x:115:THR:O	1:x:252:ASN:ND2	2.33	0.60
1:z:74:THR:HG23	1:4:516:VAL:HG23	1.83	0.60
1:2:115:THR:O	1:2:252:ASN:ND2	2.32	0.60
1:2:127:GLN:NE2	1:2:240:GLU:OE2	2.32	0.60
1:2:502:MET:HE3	1:4:493:PRO:HG2	1.84	0.60
1:A:516:VAL:HG23	1:E:74:THR:HG23	1.83	0.60
1:B:291:TYR:OH	1:J:313:SER:O	2.17	0.60
1:G:291:TYR:OH	1:I:313:SER:O	2.17	0.60
1:Q:516:VAL:HG23	1:S:74:THR:HG23	1.83	0.60
1:W:199:LEU:HD11	1:W:325:PRO:HD2	1.83	0.60
1:W:493:PRO:HG2	1:X:502:MET:HE3	1.84	0.60
1:X:516:VAL:HG23	1:Y:74:THR:HG23	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:199:LEU:HD11	1:b:325:PRO:HD2	1.83	0.60
1:d:115:THR:O	1:d:252:ASN:ND2	2.32	0.60
1:g:115:THR:O	1:g:252:ASN:ND2	2.32	0.60
1:g:493:PRO:HG2	1:z:502:MET:HE3	1.84	0.60
1:i:502:MET:HE3	1:l:493:PRO:HG2	1.84	0.60
1:l:115:THR:O	1:l:252:ASN:ND2	2.32	0.60
1:q:493:PRO:HG2	1:x:502:MET:HE3	1.83	0.60
1:z:199:LEU:HD11	1:z:325:PRO:HD2	1.82	0.60
1:D:291:TYR:OH	1:N:313:SER:O	2.16	0.60
1:I:254:ARG:N	1:I:538:ILE:O	2.27	0.60
1:N:502:MET:HE3	1:O:493:PRO:HG2	1.84	0.60
1:N:516:VAL:HG23	1:m:74:THR:HG23	1.83	0.60
1:R:74:THR:HG23	1:V:516:VAL:HG23	1.83	0.60
1:T:74:THR:HG23	1:i:516:VAL:HG23	1.83	0.60
1:T:115:THR:O	1:T:252:ASN:ND2	2.32	0.60
1:Z:74:THR:HG23	1:a:516:VAL:HG23	1.83	0.60
1:m:254:ARG:N	1:m:538:ILE:O	2.27	0.60
1:p:516:VAL:HG23	1:q:74:THR:HG23	1.83	0.60
1:r:74:THR:HG23	1:x:516:VAL:HG23	1.83	0.60
1:r:199:LEU:HD11	1:r:325:PRO:HD2	1.82	0.60
1:1:115:THR:O	1:1:252:ASN:ND2	2.33	0.60
1:5:115:THR:O	1:5:252:ASN:ND2	2.32	0.60
1:6:361:GLN:HE21	1:6:372:ILE:HD12	1.67	0.60
1:J:115:THR:O	1:J:252:ASN:ND2	2.33	0.60
1:J:502:MET:HE3	1:K:493:PRO:HG2	1.84	0.60
1:O:115:THR:O	1:O:252:ASN:ND2	2.32	0.60
1:P:361:GLN:HE21	1:P:372:ILE:HD12	1.67	0.60
1:Q:493:PRO:HG2	1:R:502:MET:HE3	1.84	0.60
1:S:199:LEU:HD11	1:S:325:PRO:HD2	1.82	0.60
1:U:516:VAL:HG23	1:e:74:THR:HG23	1.83	0.60
1:W:361:GLN:HE21	1:W:372:ILE:HD12	1.67	0.60
1:Y:502:MET:HE3	1:Z:493:PRO:HG2	1.84	0.60
1:Y:515:HIS:ND1	1:4:222:PHE:HB2	2.16	0.60
1:c:74:THR:HG23	1:s:516:VAL:HG23	1.83	0.60
1:j:74:THR:HG23	1:l:516:VAL:HG23	1.83	0.60
1:j:361:GLN:HE21	1:j:372:ILE:HD12	1.67	0.60
1:k:115:THR:O	1:k:252:ASN:ND2	2.32	0.60
1:o:502:MET:HE3	1:6:493:PRO:HG2	1.84	0.60
1:q:502:MET:HE3	1:x:493:PRO:HG2	1.84	0.60
1:w:115:THR:O	1:w:252:ASN:ND2	2.33	0.60
1:B:115:THR:O	1:B:252:ASN:ND2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:115:THR:O	1:C:252:ASN:ND2	2.33	0.60
1:E:115:THR:O	1:E:252:ASN:ND2	2.33	0.60
1:H:428:LYS:HE2	1:Y:410:ARG:HD2	1.84	0.60
1:K:100:ASN:OD1	1:K:419:ILE:N	2.35	0.60
1:N:361:GLN:HE21	1:N:372:ILE:HD12	1.67	0.60
1:N:542:LEU:HD12	1:P:424:PRO:CB	2.26	0.60
1:O:127:GLN:NE2	1:O:240:GLU:OE2	2.32	0.60
1:j:542:LEU:HD12	1:k:424:PRO:CB	2.26	0.60
1:l:127:GLN:NE2	1:l:240:GLU:OE2	2.32	0.60
1:5:74:THR:HG23	1:8:516:VAL:HG23	1.83	0.60
1:B:361:GLN:HE21	1:B:372:ILE:HD12	1.67	0.59
1:I:100:ASN:OD1	1:I:419:ILE:N	2.35	0.59
1:T:254:ARG:N	1:T:538:ILE:O	2.27	0.59
1:V:361:GLN:HE21	1:V:372:ILE:HD12	1.67	0.59
1:W:410:ARG:HD2	1:Y:428:LYS:HE2	1.84	0.59
1:W:502:MET:HE3	1:X:493:PRO:HG2	1.82	0.59
1:b:502:MET:HE3	1:c:493:PRO:HG2	1.83	0.59
1:h:493:PRO:HG2	1:k:502:MET:HE3	1.83	0.59
1:i:361:GLN:HE21	1:i:372:ILE:HD12	1.67	0.59
1:i:542:LEU:HD12	1:j:424:PRO:CB	2.26	0.59
1:j:410:ARG:HD2	1:k:428:LYS:HE2	1.84	0.59
1:m:115:THR:O	1:m:252:ASN:ND2	2.32	0.59
1:w:291:TYR:OH	1:x:313:SER:O	2.17	0.59
1:x:361:GLN:HE21	1:x:372:ILE:HD12	1.67	0.59
1:1:361:GLN:HE21	1:1:372:ILE:HD12	1.67	0.59
1:4:100:ASN:OD1	1:4:419:ILE:N	2.35	0.59
1:D:115:THR:O	1:D:252:ASN:ND2	2.32	0.59
1:D:428:LYS:HE2	1:P:410:ARG:HD2	1.84	0.59
1:D:502:MET:HE3	1:M:493:PRO:HG2	1.83	0.59
1:F:516:VAL:HG23	1:G:74:THR:HG23	1.83	0.59
1:G:361:GLN:HE21	1:G:372:ILE:HD12	1.67	0.59
1:H:222:PHE:HB2	1:Z:515:HIS:ND1	2.17	0.59
1:M:74:THR:HG23	1:c:516:VAL:HG23	1.83	0.59
1:O:516:VAL:HG23	1:P:74:THR:HG23	1.83	0.59
1:Q:361:GLN:HE21	1:Q:372:ILE:HD12	1.67	0.59
1:Y:361:GLN:HE21	1:Y:372:ILE:HD12	1.67	0.59
1:e:493:PRO:HG2	1:f:502:MET:HE3	1.84	0.59
1:e:516:VAL:HG23	1:h:74:THR:HG23	1.83	0.59
1:m:493:PRO:HG2	1:r:502:MET:HE3	1.84	0.59
1:p:361:GLN:HE21	1:p:372:ILE:HD12	1.67	0.59
1:t:361:GLN:HE21	1:t:372:ILE:HD12	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:100:ASN:OD1	1:w:419:ILE:N	2.35	0.59
1:z:115:THR:O	1:z:252:ASN:ND2	2.32	0.59
1:5:424:PRO:CB	1:7:542:LEU:HD12	2.26	0.59
1:7:361:GLN:HE21	1:7:372:ILE:HD12	1.67	0.59
1:B:502:MET:HE3	1:I:493:PRO:HG2	1.84	0.59
1:D:222:PHE:HB2	1:E:515:HIS:ND1	2.17	0.59
1:E:100:ASN:OD1	1:E:419:ILE:N	2.35	0.59
1:E:313:SER:O	1:F:291:TYR:OH	2.16	0.59
1:H:74:THR:HG23	1:Z:516:VAL:HG23	1.83	0.59
1:I:361:GLN:HE21	1:I:372:ILE:HD12	1.67	0.59
1:K:115:THR:O	1:K:252:ASN:ND2	2.33	0.59
1:L:115:THR:O	1:L:252:ASN:ND2	2.33	0.59
1:M:361:GLN:HE21	1:M:372:ILE:HD12	1.67	0.59
1:S:493:PRO:HG2	1:T:502:MET:HE3	1.83	0.59
1:S:502:MET:HE3	1:T:493:PRO:HG2	1.84	0.59
1:T:361:GLN:HE21	1:T:372:ILE:HD12	1.67	0.59
1:T:542:LEU:HD12	1:d:424:PRO:CB	2.26	0.59
1:X:361:GLN:HE21	1:X:372:ILE:HD12	1.67	0.59
1:e:199:LEU:HD11	1:e:325:PRO:HD2	1.83	0.59
1:l:100:ASN:OD1	1:l:419:ILE:N	2.35	0.59
1:m:361:GLN:HE21	1:m:372:ILE:HD12	1.67	0.59
1:t:74:THR:HG23	1:y:516:VAL:HG23	1.83	0.59
1:u:361:GLN:HE21	1:u:372:ILE:HD12	1.67	0.59
1:w:199:LEU:HD11	1:w:325:PRO:HD2	1.82	0.59
1:w:313:SER:O	1:y:291:TYR:OH	2.16	0.59
1:7:493:PRO:HG2	1:8:502:MET:HE3	1.84	0.59
1:A:361:GLN:HE21	1:A:372:ILE:HD12	1.67	0.59
1:A:493:PRO:HG2	1:F:502:MET:HE3	1.83	0.59
1:D:542:LEU:HD12	1:N:424:PRO:CB	2.26	0.59
1:E:291:TYR:OH	1:Q:313:SER:O	2.17	0.59
1:I:515:HIS:ND1	1:J:222:PHE:HB2	2.17	0.59
1:O:100:ASN:OD1	1:O:419:ILE:N	2.35	0.59
1:c:199:LEU:HD11	1:c:325:PRO:HD2	1.82	0.59
1:c:361:GLN:HE21	1:c:372:ILE:HD12	1.67	0.59
1:h:361:GLN:HE21	1:h:372:ILE:HD12	1.67	0.59
1:m:291:TYR:OH	1:n:313:SER:O	2.16	0.59
1:m:542:LEU:HD12	1:n:424:PRO:CB	2.26	0.59
1:o:361:GLN:HE21	1:o:372:ILE:HD12	1.67	0.59
1:u:493:PRO:HG2	1:1:502:MET:HE3	1.84	0.59
1:u:515:HIS:ND1	1:2:222:PHE:HB2	2.17	0.59
1:v:502:MET:HE3	1:y:493:PRO:HG2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:424:PRO:CB	1:7:542:LEU:HD11	2.20	0.59
1:A:74:THR:HG23	1:B:516:VAL:HG23	1.83	0.59
1:A:502:MET:HE3	1:F:493:PRO:HG2	1.84	0.59
1:H:313:SER:O	1:Y:291:TYR:OH	2.15	0.59
1:J:199:LEU:HD11	1:J:325:PRO:HD2	1.82	0.59
1:O:410:ARG:HD2	1:m:428:LYS:HE2	1.85	0.59
1:R:222:PHE:HB2	1:V:515:HIS:ND1	2.18	0.59
1:V:410:ARG:HD2	1:e:428:LYS:HE2	1.85	0.59
1:i:424:PRO:CB	1:k:542:LEU:HD12	2.26	0.59
1:k:222:PHE:HB2	1:w:515:HIS:ND1	2.17	0.59
1:m:502:MET:HE3	1:r:493:PRO:HG2	1.83	0.59
1:4:115:THR:O	1:4:252:ASN:ND2	2.33	0.59
1:5:222:PHE:HB2	1:8:515:HIS:ND1	2.18	0.59
1:E:199:LEU:HD11	1:E:325:PRO:HD2	1.83	0.59
1:H:291:TYR:OH	1:W:313:SER:O	2.16	0.59
1:J:493:PRO:HG2	1:K:502:MET:HE3	1.83	0.59
1:K:222:PHE:HB2	1:7:515:HIS:ND1	2.17	0.59
1:N:493:PRO:HG2	1:O:502:MET:HE3	1.84	0.59
1:Q:515:HIS:ND1	1:S:222:PHE:HB2	2.17	0.59
1:R:313:SER:O	1:U:291:TYR:OH	2.17	0.59
1:T:291:TYR:OH	1:d:313:SER:O	2.16	0.59
1:T:515:HIS:ND1	1:U:222:PHE:HB2	2.18	0.59
1:U:502:MET:HE3	1:V:493:PRO:HG2	1.84	0.59
1:a:542:LEU:HD11	1:8:424:PRO:CB	2.20	0.59
1:b:516:VAL:HG23	1:o:74:THR:HG23	1.83	0.59
1:c:428:LYS:HE2	1:p:410:ARG:HD2	1.85	0.59
1:e:361:GLN:HE21	1:e:372:ILE:HD12	1.67	0.59
1:g:127:GLN:NE2	1:g:240:GLU:OE2	2.32	0.59
1:m:515:HIS:ND1	1:s:222:PHE:HB2	2.18	0.59
1:n:222:PHE:HB2	1:r:515:HIS:ND1	2.18	0.59
1:p:493:PRO:HG2	1:s:502:MET:HE3	1.84	0.59
1:p:515:HIS:ND1	1:q:222:PHE:HB2	2.18	0.59
1:v:74:THR:HG23	1:1:516:VAL:HG23	1.83	0.59
1:v:361:GLN:HE21	1:v:372:ILE:HD12	1.67	0.59
1:B:410:ARG:HD2	1:J:428:LYS:HE2	1.85	0.59
1:C:127:GLN:NE2	1:C:240:GLU:OE2	2.32	0.59
1:C:410:ARG:HD2	1:b:428:LYS:HE2	1.85	0.59
1:F:222:PHE:HB2	1:R:515:HIS:ND1	2.18	0.59
1:H:199:LEU:O	1:H:213:GLU:HG3	2.03	0.59
1:I:199:LEU:O	1:I:213:GLU:HG3	2.03	0.59
1:K:410:ARG:HD2	1:a:428:LYS:HE2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:115:THR:O	1:N:252:ASN:ND2	2.32	0.59
1:R:361:GLN:HE21	1:R:372:ILE:HD12	1.67	0.59
1:S:515:HIS:ND1	1:d:222:PHE:HB2	2.18	0.59
1:T:428:LYS:HE2	1:l:410:ARG:HD2	1.85	0.59
1:X:74:THR:HG23	1:f:516:VAL:HG23	1.83	0.59
1:b:199:LEU:O	1:b:213:GLU:HG3	2.03	0.59
1:f:199:LEU:O	1:f:213:GLU:HG3	2.03	0.59
1:f:428:LYS:HE2	1:g:410:ARG:HD2	1.85	0.59
1:g:428:LYS:HE2	1:h:410:ARG:HD2	1.85	0.59
1:i:493:PRO:HG2	1:l:502:MET:HE3	1.84	0.59
1:j:222:PHE:HB2	1:l:515:HIS:ND1	2.17	0.59
1:j:516:VAL:HG23	1:x:74:THR:HG23	1.83	0.59
1:r:222:PHE:HB2	1:x:515:HIS:ND1	2.17	0.59
1:u:199:LEU:O	1:u:213:GLU:HG3	2.03	0.59
1:2:199:LEU:HD11	1:2:325:PRO:HD2	1.82	0.59
1:3:428:LYS:HE2	1:4:410:ARG:HD2	1.85	0.59
1:A:115:THR:O	1:A:252:ASN:ND2	2.32	0.59
1:C:428:LYS:HE2	1:M:410:ARG:HD2	1.85	0.59
1:D:410:ARG:HD2	1:N:428:LYS:HE2	1.85	0.59
1:G:199:LEU:O	1:G:213:GLU:HG3	2.03	0.59
1:G:502:MET:HE3	1:H:493:PRO:HG2	1.84	0.59
1:J:361:GLN:HE21	1:J:372:ILE:HD12	1.67	0.59
1:P:516:VAL:HG23	1:Q:74:THR:HG23	1.83	0.59
1:R:199:LEU:O	1:R:213:GLU:HG3	2.03	0.59
1:c:542:LEU:HD11	1:o:424:PRO:CB	2.20	0.59
1:h:502:MET:HE3	1:k:493:PRO:HG2	1.84	0.59
1:i:424:PRO:CB	1:k:542:LEU:HD11	2.20	0.59
1:j:502:MET:HE3	1:w:493:PRO:HG2	1.84	0.59
1:l:361:GLN:HE21	1:l:372:ILE:HD12	1.67	0.59
1:o:410:ARG:HD2	1:p:428:LYS:HE2	1.85	0.59
1:q:361:GLN:HE21	1:q:372:ILE:HD12	1.67	0.59
1:q:515:HIS:ND1	1:y:222:PHE:HB2	2.18	0.59
1:t:493:PRO:HG2	1:5:502:MET:HE3	1.84	0.59
1:t:502:MET:HE3	1:5:493:PRO:HG2	1.84	0.59
1:1:410:ARG:HD2	1:2:428:LYS:HE2	1.85	0.59
1:2:361:GLN:HE21	1:2:372:ILE:HD12	1.67	0.59
1:2:515:HIS:ND1	1:3:222:PHE:HB2	2.18	0.59
1:5:199:LEU:O	1:5:213:GLU:HG3	2.03	0.59
1:C:502:MET:HE3	1:L:493:PRO:HG2	1.83	0.59
1:D:493:PRO:HG2	1:M:502:MET:HE3	1.84	0.59
1:F:361:GLN:HE21	1:F:372:ILE:HD12	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:515:HIS:ND1	1:G:222:PHE:HB2	2.18	0.59
1:G:493:PRO:HG2	1:H:502:MET:HE3	1.84	0.59
1:H:361:GLN:HE21	1:H:372:ILE:HD12	1.67	0.59
1:J:515:HIS:ND1	1:a:222:PHE:HB2	2.18	0.59
1:K:515:HIS:ND1	1:L:222:PHE:HB2	2.18	0.59
1:N:199:LEU:O	1:N:213:GLU:HG3	2.03	0.59
1:N:515:HIS:ND1	1:m:222:PHE:HB2	2.18	0.59
1:O:361:GLN:HE21	1:O:372:ILE:HD12	1.67	0.59
1:T:516:VAL:HG23	1:U:74:THR:HG23	1.83	0.59
1:V:127:GLN:NE2	1:V:240:GLU:OE2	2.32	0.59
1:Z:424:PRO:CB	1:3:542:LEU:HD11	2.20	0.59
1:g:100:ASN:OD1	1:g:419:ILE:N	2.35	0.59
1:i:115:THR:O	1:i:252:ASN:ND2	2.32	0.59
1:i:199:LEU:O	1:i:213:GLU:HG3	2.03	0.59
1:i:428:LYS:HE2	1:k:410:ARG:HD2	1.85	0.59
1:j:199:LEU:O	1:j:213:GLU:HG3	2.03	0.59
1:k:100:ASN:OD1	1:k:419:ILE:N	2.35	0.59
1:o:493:PRO:HG2	1:6:502:MET:HE3	1.83	0.59
1:q:199:LEU:O	1:q:213:GLU:HG3	2.03	0.59
1:q:313:SER:O	1:s:291:TYR:OH	2.17	0.59
1:t:199:LEU:O	1:t:213:GLU:HG3	2.03	0.59
1:t:222:PHE:HB2	1:y:515:HIS:ND1	2.18	0.59
1:v:115:THR:O	1:v:252:ASN:ND2	2.32	0.59
1:v:493:PRO:HG2	1:y:502:MET:HE3	1.83	0.59
1:2:493:PRO:HG2	1:4:502:MET:HE3	1.83	0.59
1:3:361:GLN:HE21	1:3:372:ILE:HD12	1.67	0.59
1:5:428:LYS:HE2	1:7:410:ARG:HD2	1.85	0.59
1:6:199:LEU:O	1:6:213:GLU:HG3	2.03	0.59
1:B:493:PRO:HG2	1:I:502:MET:HE3	1.83	0.59
1:D:100:ASN:OD1	1:D:419:ILE:N	2.35	0.59
1:E:428:LYS:HE2	1:F:410:ARG:HD2	1.85	0.59
1:J:100:ASN:OD1	1:J:419:ILE:N	2.35	0.59
1:O:291:TYR:OH	1:m:313:SER:O	2.17	0.59
1:O:515:HIS:ND1	1:P:222:PHE:HB2	2.18	0.59
1:P:199:LEU:O	1:P:213:GLU:HG3	2.03	0.59
1:T:222:PHE:HB2	1:i:515:HIS:ND1	2.18	0.59
1:V:428:LYS:HE2	1:X:410:ARG:HD2	1.85	0.59
1:W:199:LEU:O	1:W:213:GLU:HG3	2.03	0.59
1:Z:222:PHE:HB2	1:a:515:HIS:ND1	2.18	0.59
1:a:199:LEU:O	1:a:213:GLU:HG3	2.03	0.59
1:s:199:LEU:O	1:s:213:GLU:HG3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:361:GLN:HE21	1:s:372:ILE:HD12	1.67	0.59
1:u:222:PHE:HB2	1:5:515:HIS:ND1	2.18	0.59
1:w:410:ARG:HD2	1:x:428:LYS:HE2	1.85	0.59
1:y:361:GLN:HE21	1:y:372:ILE:HD12	1.67	0.59
1:z:222:PHE:HB2	1:4:515:HIS:ND1	2.18	0.59
1:2:100:ASN:OD1	1:2:419:ILE:N	2.35	0.59
1:3:199:LEU:O	1:3:213:GLU:HG3	2.03	0.59
1:C:100:ASN:OD1	1:C:419:ILE:N	2.35	0.58
1:D:542:LEU:HD11	1:N:424:PRO:CB	2.20	0.58
1:E:493:PRO:HG2	1:P:502:MET:HE3	1.84	0.58
1:E:502:MET:HE3	1:P:493:PRO:HG2	1.84	0.58
1:F:428:LYS:HE2	1:Q:410:ARG:HD2	1.85	0.58
1:O:424:PRO:CB	1:n:542:LEU:HD12	2.26	0.58
1:O:542:LEU:HD12	1:m:424:PRO:CB	2.26	0.58
1:U:199:LEU:O	1:U:213:GLU:HG3	2.03	0.58
1:V:222:PHE:HB2	1:W:515:HIS:ND1	2.17	0.58
1:Z:428:LYS:HE2	1:3:410:ARG:HD2	1.85	0.58
1:a:361:GLN:HE21	1:a:372:ILE:HD12	1.67	0.58
1:a:410:ARG:HD2	1:8:428:LYS:HE2	1.85	0.58
1:a:502:MET:HE3	1:3:493:PRO:HG2	1.83	0.58
1:b:515:HIS:ND1	1:o:222:PHE:HB2	2.18	0.58
1:c:115:THR:O	1:c:252:ASN:ND2	2.32	0.58
1:g:502:MET:HE3	1:z:493:PRO:HG2	1.83	0.58
1:j:493:PRO:HG2	1:w:502:MET:HE3	1.84	0.58
1:m:516:VAL:HG23	1:s:74:THR:HG23	1.83	0.58
1:p:127:GLN:NE2	1:p:240:GLU:OE2	2.32	0.58
1:p:202:LEU:N	1:p:213:GLU:OE2	2.36	0.58
1:v:515:HIS:ND1	1:w:222:PHE:HB2	2.18	0.58
1:w:428:LYS:HE2	1:y:410:ARG:HD2	1.85	0.58
1:x:410:ARG:HD2	1:y:428:LYS:HE2	1.85	0.58
1:3:515:HIS:ND1	1:8:222:PHE:HB2	2.18	0.58
1:E:410:ARG:HD2	1:Q:428:LYS:HE2	1.85	0.58
1:G:202:LEU:N	1:G:213:GLU:OE2	2.36	0.58
1:L:199:LEU:O	1:L:213:GLU:HG3	2.03	0.58
1:L:361:GLN:HE21	1:L:372:ILE:HD12	1.67	0.58
1:T:424:PRO:CB	1:l:542:LEU:HD12	2.26	0.58
1:U:361:GLN:HE21	1:U:372:ILE:HD12	1.67	0.58
1:V:202:LEU:N	1:V:213:GLU:OE2	2.36	0.58
1:Z:313:SER:O	1:3:291:TYR:OH	2.17	0.58
1:a:291:TYR:OH	1:8:313:SER:O	2.16	0.58
1:b:202:LEU:N	1:b:213:GLU:OE2	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:542:LEU:HD12	1:l:424:PRO:CB	2.26	0.58
1:e:115:THR:O	1:e:252:ASN:ND2	2.32	0.58
1:f:202:LEU:N	1:f:213:GLU:OE2	2.37	0.58
1:f:424:PRO:CB	1:g:542:LEU:HD11	2.20	0.58
1:g:515:HIS:ND1	1:l:222:PHE:HB2	2.18	0.58
1:i:542:LEU:HD11	1:j:424:PRO:CB	2.20	0.58
1:l:222:PHE:HB2	1:n:515:HIS:ND1	2.18	0.58
1:r:361:GLN:HE21	1:r:372:ILE:HD12	1.67	0.58
1:t:202:LEU:N	1:t:213:GLU:OE2	2.36	0.58
1:u:502:MET:HE3	1:l:493:PRO:HG2	1.83	0.58
1:4:361:GLN:HE21	1:4:372:ILE:HD12	1.67	0.58
1:5:361:GLN:HE21	1:5:372:ILE:HD12	1.67	0.58
1:A:515:HIS:ND1	1:E:222:PHE:HB2	2.18	0.58
1:H:515:HIS:ND1	1:I:222:PHE:HB2	2.18	0.58
1:K:361:GLN:HE21	1:K:372:ILE:HD12	1.67	0.58
1:L:202:LEU:N	1:L:213:GLU:OE2	2.36	0.58
1:M:115:THR:O	1:M:252:ASN:ND2	2.32	0.58
1:O:222:PHE:HB2	1:d:515:HIS:ND1	2.18	0.58
1:U:515:HIS:ND1	1:e:222:PHE:HB2	2.18	0.58
1:X:222:PHE:HB2	1:f:515:HIS:ND1	2.18	0.58
1:X:424:PRO:CB	1:e:542:LEU:HD11	2.21	0.58
1:a:493:PRO:HG2	1:3:502:MET:HE3	1.83	0.58
1:b:361:GLN:HE21	1:b:372:ILE:HD12	1.67	0.58
1:c:202:LEU:N	1:c:213:GLU:OE2	2.36	0.58
1:d:502:MET:HE3	1:n:493:PRO:HG2	1.83	0.58
1:f:361:GLN:HE21	1:f:372:ILE:HD12	1.67	0.58
1:q:542:LEU:HD12	1:r:424:PRO:CB	2.26	0.58
1:z:199:LEU:O	1:z:213:GLU:HG3	2.03	0.58
1:z:202:LEU:N	1:z:213:GLU:OE2	2.36	0.58
1:B:222:PHE:HB2	1:C:515:HIS:ND1	2.18	0.58
1:F:202:LEU:N	1:F:213:GLU:OE2	2.36	0.58
1:K:74:THR:HG23	1:7:516:VAL:HG23	1.83	0.58
1:M:428:LYS:HE2	1:b:410:ARG:HD2	1.86	0.58
1:M:516:VAL:HG23	1:N:74:THR:HG23	1.83	0.58
1:R:428:LYS:HE2	1:U:410:ARG:HD2	1.85	0.58
1:S:361:GLN:HE21	1:S:372:ILE:HD12	1.67	0.58
1:c:199:LEU:O	1:c:213:GLU:HG3	2.03	0.58
1:e:202:LEU:N	1:e:213:GLU:OE2	2.36	0.58
1:f:410:ARG:HD2	1:h:428:LYS:HE2	1.86	0.58
1:m:199:LEU:O	1:m:213:GLU:HG3	2.03	0.58
1:n:202:LEU:N	1:n:213:GLU:OE2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:222:PHE:HB2	1:6:515:HIS:ND1	2.18	0.58
1:q:428:LYS:HE2	1:s:410:ARG:HD2	1.85	0.58
1:t:410:ARG:HD2	1:u:428:LYS:HE2	1.85	0.58
1:w:199:LEU:O	1:w:213:GLU:HG3	2.03	0.58
1:z:361:GLN:HE21	1:z:372:ILE:HD12	1.67	0.58
1:5:254:ARG:N	1:5:538:ILE:O	2.27	0.58
1:E:199:LEU:O	1:E:213:GLU:HG3	2.03	0.58
1:E:361:GLN:HE21	1:E:372:ILE:HD12	1.67	0.58
1:F:313:SER:O	1:Q:291:TYR:OH	2.16	0.58
1:J:199:LEU:O	1:J:213:GLU:HG3	2.03	0.58
1:N:100:ASN:OD1	1:N:419:ILE:N	2.35	0.58
1:N:542:LEU:HD11	1:P:424:PRO:CB	2.20	0.58
1:R:542:LEU:HD12	1:S:424:PRO:CB	2.26	0.58
1:S:410:ARG:HD2	1:U:428:LYS:HE2	1.85	0.58
1:V:424:PRO:CB	1:X:542:LEU:HD12	2.27	0.58
1:c:222:PHE:HB2	1:s:515:HIS:ND1	2.18	0.58
1:d:202:LEU:N	1:d:213:GLU:OE2	2.36	0.58
1:d:361:GLN:HE21	1:d:372:ILE:HD12	1.67	0.58
1:e:199:LEU:O	1:e:213:GLU:HG3	2.03	0.58
1:i:100:ASN:OD1	1:i:419:ILE:N	2.35	0.58
1:r:115:THR:O	1:r:252:ASN:ND2	2.32	0.58
1:u:202:LEU:N	1:u:213:GLU:OE2	2.36	0.58
1:x:291:TYR:OH	1:y:313:SER:O	2.16	0.58
1:y:202:LEU:N	1:y:213:GLU:OE2	2.36	0.58
1:6:115:THR:O	1:6:252:ASN:ND2	2.32	0.58
1:8:115:THR:O	1:8:252:ASN:ND2	2.33	0.58
1:G:410:ARG:HD2	1:I:428:LYS:HE2	1.85	0.58
1:I:202:LEU:N	1:I:213:GLU:OE2	2.36	0.58
1:J:410:ARG:HD2	1:L:428:LYS:HE2	1.85	0.58
1:K:202:LEU:N	1:K:213:GLU:OE2	2.36	0.58
1:K:291:TYR:OH	1:a:313:SER:O	2.16	0.58
1:O:202:LEU:N	1:O:213:GLU:OE2	2.36	0.58
1:T:199:LEU:O	1:T:213:GLU:HG3	2.03	0.58
1:d:100:ASN:OD1	1:d:419:ILE:N	2.35	0.58
1:d:493:PRO:HG2	1:n:502:MET:HE3	1.83	0.58
1:h:115:THR:O	1:h:252:ASN:ND2	2.32	0.58
1:h:516:VAL:HG23	1:i:74:THR:HG23	1.83	0.58
1:j:515:HIS:ND1	1:x:222:PHE:HB2	2.18	0.58
1:2:199:LEU:O	1:2:213:GLU:HG3	2.03	0.58
1:5:291:TYR:OH	1:6:313:SER:O	2.17	0.58
1:A:199:LEU:O	1:A:213:GLU:HG3	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:542:LEU:HD12	1:I:424:PRO:CB	2.26	0.58
1:M:199:LEU:O	1:M:213:GLU:HG3	2.03	0.58
1:Y:115:THR:O	1:Y:252:ASN:ND2	2.32	0.58
1:Z:199:LEU:O	1:Z:213:GLU:HG3	2.03	0.58
1:Z:202:LEU:N	1:Z:213:GLU:OE2	2.36	0.58
1:h:199:LEU:O	1:h:213:GLU:HG3	2.03	0.58
1:l:199:LEU:O	1:l:213:GLU:HG3	2.03	0.58
1:l:202:LEU:N	1:l:213:GLU:OE2	2.37	0.58
1:n:100:ASN:OD1	1:n:419:ILE:N	2.35	0.58
1:n:361:GLN:HE21	1:n:372:ILE:HD12	1.67	0.58
1:r:410:ARG:HD2	1:s:428:LYS:HE2	1.85	0.58
1:z:428:LYS:HE2	1:2:410:ARG:HD2	1.85	0.58
1:4:199:LEU:O	1:4:213:GLU:HG3	2.03	0.58
1:4:202:LEU:N	1:4:213:GLU:OE2	2.36	0.58
1:6:410:ARG:HD2	1:7:428:LYS:HE2	1.85	0.58
1:A:410:ARG:HD2	1:G:428:LYS:HE2	1.85	0.58
1:H:254:ARG:N	1:H:538:ILE:O	2.27	0.58
1:L:515:HIS:ND1	1:b:222:PHE:HB2	2.18	0.58
1:O:199:LEU:O	1:O:213:GLU:HG3	2.03	0.58
1:S:115:THR:O	1:S:252:ASN:ND2	2.32	0.58
1:W:115:THR:O	1:W:252:ASN:ND2	2.33	0.58
1:X:199:LEU:O	1:X:213:GLU:HG3	2.03	0.58
1:Z:115:THR:O	1:Z:252:ASN:ND2	2.33	0.58
1:Z:361:GLN:HE21	1:Z:372:ILE:HD12	1.67	0.58
1:o:542:LEU:HD12	1:p:424:PRO:CB	2.27	0.58
1:p:199:LEU:O	1:p:213:GLU:HG3	2.03	0.58
1:t:515:HIS:ND1	1:6:222:PHE:HB2	2.18	0.58
1:w:361:GLN:HE21	1:w:372:ILE:HD12	1.67	0.58
1:1:199:LEU:O	1:1:213:GLU:HG3	2.03	0.58
1:7:115:THR:O	1:7:252:ASN:ND2	2.32	0.58
1:8:202:LEU:N	1:8:213:GLU:OE2	2.37	0.58
1:8:361:GLN:HE21	1:8:372:ILE:HD12	1.67	0.58
1:B:199:LEU:O	1:B:213:GLU:HG3	2.03	0.58
1:F:424:PRO:CB	1:Q:542:LEU:HD12	2.26	0.58
1:K:199:LEU:O	1:K:213:GLU:HG3	2.03	0.58
1:M:202:LEU:N	1:M:213:GLU:OE2	2.36	0.58
1:V:199:LEU:O	1:V:213:GLU:HG3	2.03	0.58
1:Z:100:ASN:OD1	1:Z:419:ILE:N	2.35	0.58
1:f:222:PHE:HB2	1:z:515:HIS:ND1	2.18	0.58
1:o:542:LEU:HD11	1:p:424:PRO:CB	2.20	0.58
1:t:428:LYS:HE2	1:v:410:ARG:HD2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:410:ARG:HD2	1:v:428:LYS:HE2	1.85	0.58
1:v:199:LEU:O	1:v:213:GLU:HG3	2.03	0.58
1:3:313:SER:O	1:4:291:TYR:OH	2.17	0.58
1:8:199:LEU:O	1:8:213:GLU:HG3	2.03	0.58
1:A:428:LYS:HE2	1:I:410:ARG:HD2	1.85	0.58
1:F:199:LEU:O	1:F:213:GLU:HG3	2.03	0.58
1:M:222:PHE:HB2	1:c:515:HIS:ND1	2.18	0.58
1:N:210:ASN:HB2	1:N:213:GLU:HB3	1.86	0.58
1:Y:199:LEU:O	1:Y:213:GLU:HG3	2.03	0.58
1:Z:210:ASN:HB2	1:Z:213:GLU:HB3	1.86	0.58
1:h:202:LEU:N	1:h:213:GLU:OE2	2.36	0.58
1:i:210:ASN:HB2	1:i:213:GLU:HB3	1.86	0.58
1:o:199:LEU:O	1:o:213:GLU:HG3	2.03	0.58
1:p:210:ASN:HB2	1:p:213:GLU:HB3	1.86	0.58
1:t:542:LEU:HD12	1:u:424:PRO:CB	2.26	0.58
1:8:100:ASN:OD1	1:8:419:ILE:N	2.35	0.58
1:8:254:ARG:N	1:8:538:ILE:O	2.27	0.58
1:H:202:LEU:N	1:H:213:GLU:OE2	2.36	0.57
1:P:515:HIS:ND1	1:Q:222:PHE:HB2	2.18	0.57
1:T:202:LEU:N	1:T:213:GLU:OE2	2.36	0.57
1:V:210:ASN:HB2	1:V:213:GLU:HB3	1.86	0.57
1:e:515:HIS:ND1	1:h:222:PHE:HB2	2.18	0.57
1:k:361:GLN:HE21	1:k:372:ILE:HD12	1.67	0.57
1:m:202:LEU:N	1:m:213:GLU:OE2	2.36	0.57
1:o:210:ASN:HB2	1:o:213:GLU:HB3	1.86	0.57
1:r:199:LEU:O	1:r:213:GLU:HG3	2.03	0.57
1:v:222:PHE:HB2	1:l:515:HIS:ND1	2.18	0.57
1:y:199:LEU:O	1:y:213:GLU:HG3	2.03	0.57
1:6:202:LEU:N	1:6:213:GLU:OE2	2.36	0.57
1:8:210:ASN:HB2	1:8:213:GLU:HB3	1.86	0.57
1:A:210:ASN:HB2	1:A:213:GLU:HB3	1.86	0.57
1:C:199:LEU:O	1:C:213:GLU:HG3	2.03	0.57
1:D:210:ASN:HB2	1:D:213:GLU:HB3	1.86	0.57
1:M:515:HIS:ND1	1:N:222:PHE:HB2	2.18	0.57
1:O:210:ASN:HB2	1:O:213:GLU:HB3	1.86	0.57
1:S:199:LEU:O	1:S:213:GLU:HG3	2.03	0.57
1:V:424:PRO:CB	1:X:542:LEU:HD11	2.21	0.57
1:W:202:LEU:N	1:W:213:GLU:OE2	2.36	0.57
1:X:210:ASN:HB2	1:X:213:GLU:HB3	1.86	0.57
1:g:199:LEU:O	1:g:213:GLU:HG3	2.03	0.57
1:h:100:ASN:OD1	1:h:419:ILE:N	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:313:SER:O	1:k:291:TYR:OH	2.16	0.57
1:j:210:ASN:HB2	1:j:213:GLU:HB3	1.86	0.57
1:k:199:LEU:O	1:k:213:GLU:HG3	2.03	0.57
1:l:210:ASN:HB2	1:l:213:GLU:HB3	1.86	0.57
1:r:210:ASN:HB2	1:r:213:GLU:HB3	1.86	0.57
1:v:210:ASN:HB2	1:v:213:GLU:HB3	1.86	0.57
1:x:542:LEU:HD12	1:y:424:PRO:CB	2.26	0.57
1:5:202:LEU:N	1:5:213:GLU:OE2	2.36	0.57
1:7:199:LEU:O	1:7:213:GLU:HG3	2.03	0.57
1:D:199:LEU:O	1:D:213:GLU:HG3	2.03	0.57
1:G:515:HIS:ND1	1:W:222:PHE:HB2	2.18	0.57
1:H:343:PRO:HD3	1:Y:271:ARG:HH22	1.68	0.57
1:K:210:ASN:HB2	1:K:213:GLU:HB3	1.86	0.57
1:P:210:ASN:HB2	1:P:213:GLU:HB3	1.86	0.57
1:S:210:ASN:HB2	1:S:213:GLU:HB3	1.86	0.57
1:a:202:LEU:N	1:a:213:GLU:OE2	2.36	0.57
1:k:210:ASN:HB2	1:k:213:GLU:HB3	1.86	0.57
1:o:515:HIS:ND1	1:7:222:PHE:HB2	2.19	0.57
1:r:100:ASN:OD1	1:r:419:ILE:N	2.35	0.57
1:3:202:LEU:N	1:3:213:GLU:OE2	2.36	0.57
1:4:210:ASN:HB2	1:4:213:GLU:HB3	1.86	0.57
1:A:222:PHE:HB2	1:B:515:HIS:ND1	2.18	0.57
1:B:313:SER:O	1:L:291:TYR:OH	2.17	0.57
1:C:424:PRO:CB	1:M:542:LEU:HD12	2.27	0.57
1:D:361:GLN:HE21	1:D:372:ILE:HD12	1.67	0.57
1:G:210:ASN:HB2	1:G:213:GLU:HB3	1.86	0.57
1:H:542:LEU:HD12	1:W:424:PRO:CB	2.26	0.57
1:I:115:THR:O	1:I:252:ASN:ND2	2.33	0.57
1:I:210:ASN:HB2	1:I:213:GLU:HB3	1.86	0.57
1:M:100:ASN:OD1	1:M:419:ILE:N	2.35	0.57
1:P:100:ASN:OD1	1:P:419:ILE:N	2.35	0.57
1:h:515:HIS:ND1	1:i:222:PHE:HB2	2.18	0.57
1:j:100:ASN:OD1	1:j:419:ILE:N	2.35	0.57
1:u:115:THR:O	1:u:252:ASN:ND2	2.32	0.57
1:1:210:ASN:HB2	1:1:213:GLU:HB3	1.86	0.57
1:B:210:ASN:HB2	1:B:213:GLU:HB3	1.86	0.57
1:H:152:THR:O	1:Z:134:GLN:NE2	2.37	0.57
1:L:100:ASN:OD1	1:L:419:ILE:N	2.35	0.57
1:N:254:ARG:N	1:N:538:ILE:O	2.27	0.57
1:S:100:ASN:OD1	1:S:419:ILE:N	2.35	0.57
1:S:542:LEU:HD12	1:U:424:PRO:CB	2.26	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:410:ARG:HD2	1:d:428:LYS:HE2	1.85	0.57
1:W:535:LYS:NZ	1:Y:427:ASP:OD2	2.30	0.57
1:Z:254:ARG:N	1:Z:538:ILE:O	2.27	0.57
1:Z:410:ARG:HD2	1:4:428:LYS:HE2	1.85	0.57
1:a:210:ASN:HB2	1:a:213:GLU:HB3	1.86	0.57
1:d:199:LEU:O	1:d:213:GLU:HG3	2.03	0.57
1:i:254:ARG:N	1:i:538:ILE:O	2.27	0.57
1:m:410:ARG:HD2	1:n:428:LYS:HE2	1.85	0.57
1:p:100:ASN:OD1	1:p:419:ILE:N	2.35	0.57
1:q:100:ASN:OD1	1:q:419:ILE:N	2.35	0.57
1:t:210:ASN:HB2	1:t:213:GLU:HB3	1.86	0.57
1:u:210:ASN:HB2	1:u:213:GLU:HB3	1.86	0.57
1:x:254:ARG:N	1:x:538:ILE:O	2.27	0.57
1:z:100:ASN:OD1	1:z:419:ILE:N	2.35	0.57
1:6:542:LEU:HD11	1:7:424:PRO:CB	2.20	0.57
1:I:301:PRO:HA	1:I:400:ILE:HG13	1.87	0.57
1:J:301:PRO:HA	1:J:400:ILE:HG13	1.87	0.57
1:N:410:ARG:HD2	1:P:428:LYS:HE2	1.85	0.57
1:P:202:LEU:N	1:P:213:GLU:OE2	2.36	0.57
1:Q:202:LEU:N	1:Q:213:GLU:OE2	2.36	0.57
1:R:410:ARG:HD2	1:S:428:LYS:HE2	1.85	0.57
1:W:542:LEU:HD11	1:Y:424:PRO:CB	2.20	0.57
1:X:313:SER:O	1:e:291:TYR:OH	2.16	0.57
1:b:301:PRO:HA	1:b:400:ILE:HG13	1.87	0.57
1:u:301:PRO:HA	1:u:400:ILE:HG13	1.87	0.57
1:x:100:ASN:OD1	1:x:419:ILE:N	2.35	0.57
1:3:210:ASN:HB2	1:3:213:GLU:HB3	1.86	0.57
1:5:410:ARG:HD2	1:6:428:LYS:HE2	1.85	0.57
1:C:361:GLN:HE21	1:C:372:ILE:HD12	1.67	0.57
1:K:428:LYS:HE2	1:8:410:ARG:HD2	1.85	0.57
1:L:301:PRO:HA	1:L:400:ILE:HG13	1.87	0.57
1:U:115:THR:O	1:U:252:ASN:ND2	2.33	0.57
1:U:301:PRO:HA	1:U:400:ILE:HG13	1.87	0.57
1:Y:493:PRO:HG2	1:Z:502:MET:HE3	1.87	0.57
1:c:210:ASN:HB2	1:c:213:GLU:HB3	1.86	0.57
1:g:424:PRO:CB	1:h:542:LEU:HD12	2.27	0.57
1:i:202:LEU:N	1:i:213:GLU:OE2	2.36	0.57
1:i:410:ARG:HD2	1:j:428:LYS:HE2	1.85	0.57
1:j:202:LEU:N	1:j:213:GLU:OE2	2.36	0.57
1:n:199:LEU:O	1:n:213:GLU:HG3	2.03	0.57
1:s:210:ASN:HB2	1:s:213:GLU:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:100:ASN:OD1	1:v:419:ILE:N	2.35	0.57
1:z:291:TYR:OH	1:1:313:SER:O	2.17	0.57
1:2:301:PRO:HA	1:2:400:ILE:HG13	1.87	0.57
1:6:210:ASN:HB2	1:6:213:GLU:HB3	1.86	0.57
1:7:210:ASN:HB2	1:7:213:GLU:HB3	1.86	0.57
1:A:100:ASN:OD1	1:A:419:ILE:N	2.35	0.57
1:E:301:PRO:HA	1:E:400:ILE:HG13	1.87	0.57
1:H:410:ARG:HD2	1:W:428:LYS:HE2	1.85	0.57
1:Q:100:ASN:OD1	1:Q:419:ILE:N	2.35	0.57
1:R:100:ASN:OD1	1:R:419:ILE:N	2.35	0.57
1:U:210:ASN:HB2	1:U:213:GLU:HB3	1.86	0.57
1:W:210:ASN:HB2	1:W:213:GLU:HB3	1.86	0.57
1:Y:210:ASN:HB2	1:Y:213:GLU:HB3	1.86	0.57
1:e:210:ASN:HB2	1:e:213:GLU:HB3	1.86	0.57
1:f:301:PRO:HA	1:f:400:ILE:HG13	1.87	0.57
1:q:410:ARG:HD2	1:r:428:LYS:HE2	1.85	0.57
1:r:542:LEU:HD12	1:s:424:PRO:CB	2.26	0.57
1:w:301:PRO:HA	1:w:400:ILE:HG13	1.87	0.57
1:x:199:LEU:O	1:x:213:GLU:HG3	2.03	0.57
1:x:202:LEU:N	1:x:213:GLU:OE2	2.36	0.57
1:z:301:PRO:HA	1:z:400:ILE:HG13	1.87	0.57
1:z:410:ARG:HD2	1:1:428:LYS:HE2	1.85	0.57
1:5:152:THR:O	1:8:134:GLN:NE2	2.37	0.57
1:B:428:LYS:HE2	1:L:410:ARG:HD2	1.85	0.57
1:C:301:PRO:HA	1:C:400:ILE:HG13	1.87	0.57
1:N:202:LEU:N	1:N:213:GLU:OE2	2.36	0.57
1:P:115:THR:O	1:P:252:ASN:ND2	2.32	0.57
1:U:202:LEU:N	1:U:213:GLU:OE2	2.36	0.57
1:V:100:ASN:OD1	1:V:419:ILE:N	2.35	0.57
1:X:301:PRO:HA	1:X:400:ILE:HG13	1.87	0.57
1:c:410:ARG:HD2	1:o:428:LYS:HE2	1.86	0.57
1:g:301:PRO:HA	1:g:400:ILE:HG13	1.87	0.57
1:i:301:PRO:HA	1:i:400:ILE:HG13	1.87	0.57
1:o:301:PRO:HA	1:o:400:ILE:HG13	1.87	0.57
1:r:202:LEU:N	1:r:213:GLU:OE2	2.36	0.57
1:s:100:ASN:OD1	1:s:419:ILE:N	2.35	0.57
1:s:115:THR:O	1:s:252:ASN:ND2	2.32	0.57
1:s:301:PRO:HA	1:s:400:ILE:HG13	1.87	0.57
1:t:301:PRO:HA	1:t:400:ILE:HG13	1.87	0.57
1:5:210:ASN:HB2	1:5:213:GLU:HB3	1.86	0.57
1:6:301:PRO:HA	1:6:400:ILE:HG13	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:301:PRO:HA	1:A:400:ILE:HG13	1.87	0.57
1:F:301:PRO:HA	1:F:400:ILE:HG13	1.87	0.57
1:G:301:PRO:HA	1:G:400:ILE:HG13	1.87	0.57
1:H:210:ASN:HB2	1:H:213:GLU:HB3	1.86	0.57
1:H:301:PRO:HA	1:H:400:ILE:HG13	1.87	0.57
1:M:210:ASN:HB2	1:M:213:GLU:HB3	1.86	0.57
1:N:301:PRO:HA	1:N:400:ILE:HG13	1.87	0.57
1:Q:199:LEU:O	1:Q:213:GLU:HG3	2.03	0.57
1:U:100:ASN:OD1	1:U:419:ILE:N	2.35	0.57
1:W:301:PRO:HA	1:W:400:ILE:HG13	1.87	0.57
1:X:428:LYS:HE2	1:e:410:ARG:HD2	1.86	0.57
1:Y:301:PRO:HA	1:Y:400:ILE:HG13	1.87	0.57
1:g:361:GLN:HE21	1:g:372:ILE:HD12	1.67	0.57
1:h:210:ASN:HB2	1:h:213:GLU:HB3	1.86	0.57
1:j:115:THR:O	1:j:252:ASN:ND2	2.33	0.57
1:k:202:LEU:N	1:k:213:GLU:OE2	2.36	0.57
1:s:202:LEU:N	1:s:213:GLU:OE2	2.36	0.57
1:t:134:GLN:NE2	1:6:152:THR:O	2.37	0.57
1:v:301:PRO:HA	1:v:400:ILE:HG13	1.87	0.57
1:w:202:LEU:N	1:w:213:GLU:OE2	2.37	0.57
1:y:301:PRO:HA	1:y:400:ILE:HG13	1.87	0.57
1:5:313:SER:O	1:7:291:TYR:OH	2.17	0.57
1:7:301:PRO:HA	1:7:400:ILE:HG13	1.87	0.57
1:C:424:PRO:CB	1:M:542:LEU:HD11	2.21	0.56
1:D:202:LEU:N	1:D:213:GLU:OE2	2.36	0.56
1:E:202:LEU:N	1:E:213:GLU:OE2	2.36	0.56
1:J:134:GLN:NE2	1:a:152:THR:O	2.38	0.56
1:O:313:SER:O	1:n:291:TYR:OH	2.16	0.56
1:R:123:PRO:HG3	1:R:481:TRP:CZ3	2.40	0.56
1:S:202:LEU:N	1:S:213:GLU:OE2	2.36	0.56
1:V:153:ALA:HA	1:W:134:GLN:HE22	1.70	0.56
1:X:123:PRO:HG3	1:X:481:TRP:CZ3	2.40	0.56
1:b:123:PRO:HG3	1:b:481:TRP:CZ3	2.40	0.56
1:c:291:TYR:OH	1:o:313:SER:O	2.16	0.56
1:f:123:PRO:HG3	1:f:481:TRP:CZ3	2.40	0.56
1:g:210:ASN:HB2	1:g:213:GLU:HB3	1.86	0.56
1:t:134:GLN:HE22	1:6:153:ALA:HA	1.70	0.56
1:v:202:LEU:N	1:v:213:GLU:OE2	2.36	0.56
1:5:301:PRO:HA	1:5:400:ILE:HG13	1.87	0.56
1:B:202:LEU:N	1:B:213:GLU:OE2	2.36	0.56
1:C:210:ASN:HB2	1:C:213:GLU:HB3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:123:PRO:HG3	1:H:481:TRP:CZ3	2.41	0.56
1:U:123:PRO:HG3	1:U:481:TRP:CZ3	2.40	0.56
1:X:343:PRO:HD3	1:e:271:ARG:HH22	1.71	0.56
1:d:123:PRO:HG3	1:d:481:TRP:CZ3	2.40	0.56
1:d:410:ARG:HD2	1:l:428:LYS:HE2	1.85	0.56
1:g:424:PRO:CB	1:h:542:LEU:HD11	2.21	0.56
1:n:123:PRO:HG3	1:n:481:TRP:CZ3	2.40	0.56
1:o:123:PRO:HG3	1:o:481:TRP:CZ3	2.41	0.56
1:q:115:THR:O	1:q:252:ASN:ND2	2.33	0.56
1:q:123:PRO:HG3	1:q:481:TRP:CZ3	2.40	0.56
1:z:152:THR:O	1:4:134:GLN:NE2	2.37	0.56
1:2:134:GLN:NE2	1:3:152:THR:O	2.38	0.56
1:6:123:PRO:HG3	1:6:481:TRP:CZ3	2.40	0.56
1:A:202:LEU:N	1:A:213:GLU:OE2	2.36	0.56
1:C:123:PRO:HG3	1:C:481:TRP:CZ3	2.41	0.56
1:C:271:ARG:HH22	1:b:343:PRO:HD3	1.70	0.56
1:E:210:ASN:HB2	1:E:213:GLU:HB3	1.86	0.56
1:F:100:ASN:OD1	1:F:419:ILE:N	2.35	0.56
1:F:210:ASN:HB2	1:F:213:GLU:HB3	1.86	0.56
1:F:343:PRO:HD3	1:Q:271:ARG:HH22	1.70	0.56
1:G:134:GLN:HE22	1:W:153:ALA:HA	1.71	0.56
1:G:157:ILE:HD12	1:G:233:LEU:HD22	1.88	0.56
1:J:157:ILE:HD12	1:J:233:LEU:HD22	1.88	0.56
1:J:202:LEU:N	1:J:213:GLU:OE2	2.36	0.56
1:J:210:ASN:HB2	1:J:213:GLU:HB3	1.86	0.56
1:K:134:GLN:NE2	1:L:152:THR:O	2.37	0.56
1:K:301:PRO:HA	1:K:400:ILE:HG13	1.87	0.56
1:L:123:PRO:HG3	1:L:481:TRP:CZ3	2.40	0.56
1:L:210:ASN:HB2	1:L:213:GLU:HB3	1.86	0.56
1:M:123:PRO:HG3	1:M:481:TRP:CZ3	2.40	0.56
1:M:134:GLN:NE2	1:N:152:THR:O	2.37	0.56
1:N:271:ARG:HH22	1:P:343:PRO:HD3	1.71	0.56
1:O:428:LYS:HE2	1:n:410:ARG:HD2	1.85	0.56
1:R:115:THR:O	1:R:252:ASN:ND2	2.33	0.56
1:R:153:ALA:HA	1:V:134:GLN:HE22	1.70	0.56
1:R:157:ILE:HD12	1:R:233:LEU:HD22	1.88	0.56
1:R:210:ASN:HB2	1:R:213:GLU:HB3	1.86	0.56
1:T:301:PRO:HA	1:T:400:ILE:HG13	1.87	0.56
1:V:153:ALA:HA	1:W:134:GLN:NE2	2.20	0.56
1:W:123:PRO:HG3	1:W:481:TRP:CZ3	2.41	0.56
1:X:202:LEU:N	1:X:213:GLU:OE2	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:157:ILE:HD12	1:Y:233:LEU:HD22	1.88	0.56
1:b:210:ASN:HB2	1:b:213:GLU:HB3	1.86	0.56
1:c:271:ARG:HH22	1:o:343:PRO:HD3	1.71	0.56
1:f:210:ASN:HB2	1:f:213:GLU:HB3	1.86	0.56
1:f:343:PRO:HD3	1:g:271:ARG:HH22	1.70	0.56
1:g:123:PRO:HG3	1:g:481:TRP:CZ3	2.41	0.56
1:g:134:GLN:HE22	1:l:153:ALA:HA	1.70	0.56
1:h:123:PRO:HG3	1:h:481:TRP:CZ3	2.41	0.56
1:h:134:GLN:NE2	1:i:152:THR:O	2.37	0.56
1:i:123:PRO:HG3	1:i:481:TRP:CZ3	2.40	0.56
1:i:271:ARG:HH22	1:j:343:PRO:HD3	1.71	0.56
1:i:343:PRO:HD3	1:k:271:ARG:HH22	1.70	0.56
1:k:301:PRO:HA	1:k:400:ILE:HG13	1.87	0.56
1:m:301:PRO:HA	1:m:400:ILE:HG13	1.87	0.56
1:n:301:PRO:HA	1:n:400:ILE:HG13	1.87	0.56
1:p:134:GLN:HE22	1:q:153:ALA:HA	1.70	0.56
1:p:301:PRO:HA	1:p:400:ILE:HG13	1.87	0.56
1:q:343:PRO:HD3	1:s:271:ARG:HH22	1.71	0.56
1:s:123:PRO:HG3	1:s:481:TRP:CZ3	2.41	0.56
1:u:123:PRO:HG3	1:u:481:TRP:CZ3	2.41	0.56
1:w:210:ASN:HB2	1:w:213:GLU:HB3	1.86	0.56
1:x:271:ARG:HH22	1:y:343:PRO:HD3	1.70	0.56
1:y:100:ASN:OD1	1:y:419:ILE:N	2.35	0.56
1:y:210:ASN:HB2	1:y:213:GLU:HB3	1.86	0.56
1:z:123:PRO:HG3	1:z:481:TRP:CZ3	2.41	0.56
1:z:210:ASN:HB2	1:z:213:GLU:HB3	1.86	0.56
1:1:202:LEU:N	1:1:213:GLU:OE2	2.36	0.56
1:2:157:ILE:HD12	1:2:233:LEU:HD22	1.88	0.56
1:2:202:LEU:N	1:2:213:GLU:OE2	2.36	0.56
1:4:301:PRO:HA	1:4:400:ILE:HG13	1.87	0.56
1:5:123:PRO:HG3	1:5:481:TRP:CZ3	2.41	0.56
1:7:157:ILE:HD12	1:7:233:LEU:HD22	1.88	0.56
1:B:153:ALA:HA	1:C:134:GLN:HE22	1.70	0.56
1:C:153:ALA:HA	1:D:134:GLN:HE22	1.70	0.56
1:D:271:ARG:HH22	1:N:343:PRO:HD3	1.70	0.56
1:D:301:PRO:HA	1:D:400:ILE:HG13	1.87	0.56
1:I:123:PRO:HG3	1:I:481:TRP:CZ3	2.41	0.56
1:N:123:PRO:HG3	1:N:481:TRP:CZ3	2.40	0.56
1:O:157:ILE:HD12	1:O:233:LEU:HD22	1.88	0.56
1:P:134:GLN:HE22	1:Q:153:ALA:HA	1.71	0.56
1:R:343:PRO:HD3	1:U:271:ARG:HH22	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:301:PRO:HA	1:V:400:ILE:HG13	1.87	0.56
1:Y:202:LEU:N	1:Y:213:GLU:OE2	2.36	0.56
1:d:210:ASN:HB2	1:d:213:GLU:HB3	1.86	0.56
1:d:291:TYR:OH	1:l:313:SER:O	2.16	0.56
1:d:301:PRO:HA	1:d:400:ILE:HG13	1.87	0.56
1:l:157:ILE:HD12	1:l:233:LEU:HD22	1.88	0.56
1:m:134:GLN:NE2	1:s:152:THR:O	2.37	0.56
1:m:210:ASN:HB2	1:m:213:GLU:HB3	1.86	0.56
1:n:210:ASN:HB2	1:n:213:GLU:HB3	1.86	0.56
1:o:202:LEU:N	1:o:213:GLU:OE2	2.36	0.56
1:q:157:ILE:HD12	1:q:233:LEU:HD22	1.88	0.56
1:t:157:ILE:HD12	1:t:233:LEU:HD22	1.88	0.56
1:v:152:THR:O	1:l:134:GLN:NE2	2.38	0.56
1:w:343:PRO:HD3	1:y:271:ARG:HH22	1.71	0.56
1:2:210:ASN:HB2	1:2:213:GLU:HB3	1.86	0.56
1:7:202:LEU:N	1:7:213:GLU:OE2	2.36	0.56
1:E:343:PRO:HD3	1:F:271:ARG:HH22	1.71	0.56
1:G:123:PRO:HG3	1:G:481:TRP:CZ3	2.40	0.56
1:G:271:ARG:HH22	1:I:343:PRO:HD3	1.71	0.56
1:L:180:LEU:HB2	1:L:183:LYS:HG2	1.88	0.56
1:M:153:ALA:HA	1:c:134:GLN:NE2	2.21	0.56
1:M:313:SER:O	1:b:291:TYR:OH	2.17	0.56
1:O:301:PRO:HA	1:O:400:ILE:HG13	1.87	0.56
1:Q:123:PRO:HG3	1:Q:481:TRP:CZ3	2.40	0.56
1:S:301:PRO:HA	1:S:400:ILE:HG13	1.87	0.56
1:T:123:PRO:HG3	1:T:481:TRP:CZ3	2.40	0.56
1:T:134:GLN:NE2	1:U:152:THR:O	2.37	0.56
1:T:210:ASN:HB2	1:T:213:GLU:HB3	1.86	0.56
1:W:271:ARG:HH22	1:Y:343:PRO:HD3	1.71	0.56
1:Z:180:LEU:HB2	1:Z:183:LYS:HG2	1.88	0.56
1:g:153:ALA:HA	1:k:134:GLN:HE22	1.70	0.56
1:j:134:GLN:NE2	1:x:152:THR:O	2.38	0.56
1:j:134:GLN:HE22	1:x:153:ALA:HA	1.71	0.56
1:l:301:PRO:HA	1:l:400:ILE:HG13	1.87	0.56
1:m:100:ASN:OD1	1:m:419:ILE:N	2.35	0.56
1:q:210:ASN:HB2	1:q:213:GLU:HB3	1.86	0.56
1:r:291:TYR:OH	1:s:313:SER:O	2.16	0.56
1:r:301:PRO:HA	1:r:400:ILE:HG13	1.87	0.56
1:x:123:PRO:HG3	1:x:481:TRP:CZ3	2.40	0.56
1:y:180:LEU:HB2	1:y:183:LYS:HG2	1.88	0.56
1:4:180:LEU:HB2	1:4:183:LYS:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:271:ARG:HH22	1:7:343:PRO:HD3	1.71	0.56
1:B:123:PRO:HG3	1:B:481:TRP:CZ3	2.40	0.56
1:C:157:ILE:HD12	1:C:233:LEU:HD22	1.88	0.56
1:D:343:PRO:HD3	1:P:271:ARG:HH22	1.71	0.56
1:F:180:LEU:HB2	1:F:183:LYS:HG2	1.88	0.56
1:H:271:ARG:HH22	1:W:343:PRO:HD3	1.70	0.56
1:J:271:ARG:HH22	1:L:343:PRO:HD3	1.71	0.56
1:K:180:LEU:HB2	1:K:183:LYS:HG2	1.88	0.56
1:K:343:PRO:HD3	1:8:271:ARG:HH22	1.71	0.56
1:M:301:PRO:HA	1:M:400:ILE:HG13	1.87	0.56
1:N:291:TYR:OH	1:P:313:SER:O	2.17	0.56
1:Q:301:PRO:HA	1:Q:400:ILE:HG13	1.87	0.56
1:R:202:LEU:N	1:R:213:GLU:OE2	2.36	0.56
1:W:180:LEU:HB2	1:W:183:LYS:HG2	1.88	0.56
1:X:515:HIS:CE1	1:Y:222:PHE:HB2	2.41	0.56
1:e:134:GLN:NE2	1:h:153:ALA:HA	2.21	0.56
1:l:123:PRO:HG3	1:l:481:TRP:CZ3	2.41	0.56
1:m:123:PRO:HG3	1:m:481:TRP:CZ3	2.40	0.56
1:m:157:ILE:HD12	1:m:233:LEU:HD22	1.88	0.56
1:p:123:PRO:HG3	1:p:481:TRP:CZ3	2.40	0.56
1:t:123:PRO:HG3	1:t:481:TRP:CZ3	2.40	0.56
1:t:271:ARG:HH22	1:u:343:PRO:HD3	1.71	0.56
1:x:180:LEU:HB2	1:x:183:LYS:HG2	1.88	0.56
1:x:301:PRO:HA	1:x:400:ILE:HG13	1.87	0.56
1:z:343:PRO:HD3	1:2:271:ARG:HH22	1.71	0.56
1:1:100:ASN:OD1	1:1:419:ILE:N	2.35	0.56
1:1:123:PRO:HG3	1:1:481:TRP:CZ3	2.40	0.56
1:1:157:ILE:HD12	1:1:233:LEU:HD22	1.88	0.56
1:3:301:PRO:HA	1:3:400:ILE:HG13	1.87	0.56
1:8:301:PRO:HA	1:8:400:ILE:HG13	1.87	0.56
1:A:123:PRO:HG3	1:A:481:TRP:CZ3	2.40	0.56
1:A:157:ILE:HD12	1:A:233:LEU:HD22	1.88	0.56
1:A:542:LEU:HD12	1:G:424:PRO:CB	2.26	0.56
1:B:157:ILE:HD12	1:B:233:LEU:HD22	1.88	0.56
1:F:157:ILE:HD12	1:F:233:LEU:HD22	1.88	0.56
1:J:180:LEU:HB2	1:J:183:LYS:HG2	1.88	0.56
1:M:343:PRO:HD3	1:b:271:ARG:HH22	1.71	0.56
1:O:123:PRO:HG3	1:O:481:TRP:CZ3	2.41	0.56
1:P:134:GLN:NE2	1:Q:152:THR:O	2.38	0.56
1:P:301:PRO:HA	1:P:400:ILE:HG13	1.87	0.56
1:Q:134:GLN:NE2	1:S:152:THR:O	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:180:LEU:HB2	1:Q:183:LYS:HG2	1.88	0.56
1:T:100:ASN:OD1	1:T:419:ILE:N	2.35	0.56
1:T:157:ILE:HD12	1:T:233:LEU:HD22	1.88	0.56
1:Z:157:ILE:HD12	1:Z:233:LEU:HD22	1.88	0.56
1:Z:271:ARG:HH22	1:4:343:PRO:HD3	1.71	0.56
1:f:291:TYR:OH	1:h:313:SER:O	2.17	0.56
1:g:157:ILE:HD12	1:g:233:LEU:HD22	1.88	0.56
1:h:301:PRO:HA	1:h:400:ILE:HG13	1.87	0.56
1:j:271:ARG:HH22	1:k:343:PRO:HD3	1.71	0.56
1:j:301:PRO:HA	1:j:400:ILE:HG13	1.87	0.56
1:q:202:LEU:N	1:q:213:GLU:OE2	2.36	0.56
1:v:123:PRO:HG3	1:v:481:TRP:CZ3	2.40	0.56
1:w:180:LEU:HB2	1:w:183:LYS:HG2	1.88	0.56
1:y:157:ILE:HD12	1:y:233:LEU:HD22	1.88	0.56
1:z:180:LEU:HB2	1:z:183:LYS:HG2	1.88	0.56
1:1:271:ARG:HH22	1:2:343:PRO:HD3	1.71	0.56
1:2:134:GLN:HE22	1:3:153:ALA:HA	1.71	0.56
1:2:180:LEU:HB2	1:2:183:LYS:HG2	1.88	0.56
1:5:542:LEU:HD12	1:6:424:PRO:CB	2.26	0.56
1:6:180:LEU:HB2	1:6:183:LYS:HG2	1.88	0.56
1:8:123:PRO:HG3	1:8:481:TRP:CZ3	2.40	0.56
1:8:180:LEU:HB2	1:8:183:LYS:HG2	1.88	0.56
1:A:134:GLN:NE2	1:E:152:THR:O	2.38	0.56
1:A:152:THR:O	1:B:134:GLN:NE2	2.38	0.56
1:B:271:ARG:HH22	1:J:343:PRO:HD3	1.71	0.56
1:E:180:LEU:HB2	1:E:183:LYS:HG2	1.88	0.56
1:F:123:PRO:HG3	1:F:481:TRP:CZ3	2.40	0.56
1:F:134:GLN:HE22	1:G:153:ALA:HA	1.70	0.56
1:G:134:GLN:NE2	1:W:152:THR:O	2.38	0.56
1:K:123:PRO:HG3	1:K:481:TRP:CZ3	2.40	0.56
1:M:134:GLN:HE22	1:N:153:ALA:HA	1.71	0.56
1:M:153:ALA:HA	1:c:134:GLN:HE22	1.70	0.56
1:O:134:GLN:NE2	1:P:153:ALA:HA	2.21	0.56
1:S:291:TYR:OH	1:U:313:SER:O	2.16	0.56
1:T:317:ALA:HB3	1:T:340:GLY:HA3	1.88	0.56
1:V:123:PRO:HG3	1:V:481:TRP:CZ3	2.40	0.56
1:V:180:LEU:HB2	1:V:183:LYS:HG2	1.88	0.56
1:V:271:ARG:HH22	1:e:343:PRO:HD3	1.70	0.56
1:Y:134:GLN:NE2	1:4:153:ALA:HA	2.20	0.56
1:Y:134:GLN:HE22	1:4:153:ALA:HA	1.70	0.56
1:Y:180:LEU:HB2	1:Y:183:LYS:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:123:PRO:HG3	1:Z:481:TRP:CZ3	2.40	0.56
1:Z:301:PRO:HA	1:Z:400:ILE:HG13	1.87	0.56
1:a:301:PRO:HA	1:a:400:ILE:HG13	1.87	0.56
1:e:317:ALA:HB3	1:e:340:GLY:HA3	1.88	0.56
1:i:291:TYR:OH	1:j:313:SER:O	2.17	0.56
1:j:153:ALA:HA	1:l:134:GLN:HE22	1.70	0.56
1:j:153:ALA:HA	1:l:134:GLN:NE2	2.21	0.56
1:m:317:ALA:HB3	1:m:340:GLY:HA3	1.88	0.56
1:n:153:ALA:HA	1:r:134:GLN:HE22	1.71	0.56
1:r:152:THR:O	1:x:134:GLN:NE2	2.37	0.56
1:v:157:ILE:HD12	1:v:233:LEU:HD22	1.88	0.56
1:x:210:ASN:HB2	1:x:213:GLU:HB3	1.86	0.56
1:y:123:PRO:HG3	1:y:481:TRP:CZ3	2.40	0.56
1:4:123:PRO:HG3	1:4:481:TRP:CZ3	2.41	0.56
1:D:180:LEU:HB2	1:D:183:LYS:HG2	1.88	0.56
1:G:134:GLN:NE2	1:W:153:ALA:HA	2.21	0.56
1:J:134:GLN:HE22	1:a:153:ALA:HA	1.71	0.56
1:K:317:ALA:HB3	1:K:340:GLY:HA3	1.88	0.56
1:M:180:LEU:HB2	1:M:183:LYS:HG2	1.88	0.56
1:N:134:GLN:HE22	1:m:153:ALA:HA	1.71	0.56
1:N:180:LEU:HB2	1:N:183:LYS:HG2	1.88	0.56
1:O:134:GLN:NE2	1:P:152:THR:O	2.37	0.56
1:O:134:GLN:HE22	1:P:153:ALA:HA	1.70	0.56
1:Q:210:ASN:HB2	1:Q:213:GLU:HB3	1.86	0.56
1:R:153:ALA:HA	1:V:134:GLN:NE2	2.21	0.56
1:S:134:GLN:HE22	1:d:153:ALA:HA	1.71	0.56
1:S:180:LEU:HB2	1:S:183:LYS:HG2	1.88	0.56
1:S:317:ALA:HB3	1:S:340:GLY:HA3	1.88	0.56
1:c:153:ALA:HA	1:s:134:GLN:HE22	1.71	0.56
1:c:317:ALA:HB3	1:c:340:GLY:HA3	1.88	0.56
1:c:343:PRO:HD3	1:p:271:ARG:HH22	1.70	0.56
1:f:271:ARG:HH22	1:h:343:PRO:HD3	1.71	0.56
1:g:313:SER:O	1:h:291:TYR:OH	2.17	0.56
1:h:180:LEU:HB2	1:h:183:LYS:HG2	1.88	0.56
1:j:152:THR:O	1:l:134:GLN:NE2	2.37	0.56
1:k:180:LEU:HB2	1:k:183:LYS:HG2	1.88	0.56
1:m:134:GLN:HE22	1:s:153:ALA:HA	1.71	0.56
1:p:134:GLN:NE2	1:q:153:ALA:HA	2.21	0.56
1:p:180:LEU:HB2	1:p:183:LYS:HG2	1.88	0.56
1:r:180:LEU:HB2	1:r:183:LYS:HG2	1.88	0.56
1:r:317:ALA:HB3	1:r:340:GLY:HA3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:134:GLN:NE2	1:w:152:THR:O	2.38	0.56
1:y:317:ALA:HB3	1:y:340:GLY:HA3	1.88	0.56
1:1:301:PRO:HA	1:1:400:ILE:HG13	1.87	0.56
1:2:123:PRO:HG3	1:2:481:TRP:CZ3	2.41	0.56
1:3:123:PRO:HG3	1:3:481:TRP:CZ3	2.40	0.56
1:5:157:ILE:HD12	1:5:233:LEU:HD22	1.88	0.56
1:7:180:LEU:HB2	1:7:183:LYS:HG2	1.88	0.56
1:8:157:ILE:HD12	1:8:233:LEU:HD22	1.88	0.56
1:B:100:ASN:OD1	1:B:419:ILE:N	2.35	0.56
1:C:313:SER:O	1:M:291:TYR:OH	2.17	0.56
1:D:123:PRO:HG3	1:D:481:TRP:CZ3	2.40	0.56
1:E:271:ARG:HH22	1:Q:343:PRO:HD3	1.71	0.56
1:F:317:ALA:HB3	1:F:340:GLY:HA3	1.88	0.56
1:J:123:PRO:HG3	1:J:481:TRP:CZ3	2.41	0.56
1:O:153:ALA:HA	1:d:134:GLN:HE22	1.70	0.56
1:T:134:GLN:HE22	1:U:153:ALA:HA	1.71	0.56
1:T:153:ALA:HA	1:i:134:GLN:HE22	1.71	0.56
1:U:134:GLN:HE22	1:e:153:ALA:HA	1.71	0.56
1:a:123:PRO:HG3	1:a:481:TRP:CZ3	2.40	0.56
1:a:271:ARG:HH22	1:8:343:PRO:HD3	1.71	0.56
1:c:100:ASN:OD1	1:c:419:ILE:N	2.35	0.56
1:e:301:PRO:HA	1:e:400:ILE:HG13	1.87	0.56
1:h:134:GLN:HE22	1:i:153:ALA:HA	1.71	0.56
1:i:180:LEU:HB2	1:i:183:LYS:HG2	1.88	0.56
1:q:301:PRO:HA	1:q:400:ILE:HG13	1.87	0.56
1:r:153:ALA:HA	1:x:134:GLN:HE22	1.70	0.56
1:z:317:ALA:HB3	1:z:340:GLY:HA3	1.88	0.56
1:4:317:ALA:HB3	1:4:340:GLY:HA3	1.88	0.56
1:B:301:PRO:HA	1:B:400:ILE:HG13	1.87	0.55
1:B:343:PRO:HD3	1:L:271:ARG:HH22	1.71	0.55
1:C:343:PRO:HD3	1:M:271:ARG:HH22	1.71	0.55
1:D:317:ALA:HB3	1:D:340:GLY:HA3	1.88	0.55
1:H:157:ILE:HD12	1:H:233:LEU:HD22	1.88	0.55
1:K:313:SER:O	1:8:291:TYR:OH	2.17	0.55
1:L:317:ALA:HB3	1:L:340:GLY:HA3	1.88	0.55
1:O:271:ARG:HH22	1:m:343:PRO:HD3	1.71	0.55
1:Q:134:GLN:HE22	1:S:153:ALA:HA	1.70	0.55
1:T:343:PRO:HD3	1:l:271:ARG:HH22	1.71	0.55
1:Z:343:PRO:HD3	1:3:271:ARG:HH22	1.71	0.55
1:a:180:LEU:HB2	1:a:183:LYS:HG2	1.88	0.55
1:c:301:PRO:HA	1:c:400:ILE:HG13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:157:ILE:HD12	1:d:233:LEU:HD22	1.88	0.55
1:e:100:ASN:OD1	1:e:419:ILE:N	2.35	0.55
1:g:343:PRO:HD3	1:h:271:ARG:HH22	1.71	0.55
1:k:123:PRO:HG3	1:k:481:TRP:CZ3	2.40	0.55
1:n:157:ILE:HD12	1:n:233:LEU:HD22	1.88	0.55
1:o:134:GLN:NE2	1:7:153:ALA:HA	2.21	0.55
1:s:317:ALA:HB3	1:s:340:GLY:HA3	1.88	0.55
1:t:424:PRO:CB	1:v:542:LEU:HD12	2.26	0.55
1:v:134:GLN:HE22	1:w:153:ALA:HA	1.71	0.55
1:w:271:ARG:HH22	1:x:343:PRO:HD3	1.71	0.55
1:3:180:LEU:HB2	1:3:183:LYS:HG2	1.88	0.55
1:5:153:ALA:HA	1:8:134:GLN:HE22	1.71	0.55
1:A:153:ALA:HA	1:B:134:GLN:HE22	1.71	0.55
1:C:202:LEU:N	1:C:213:GLU:OE2	2.36	0.55
1:H:153:ALA:HA	1:Z:134:GLN:HE22	1.70	0.55
1:K:153:ALA:HA	1:7:134:GLN:HE22	1.70	0.55
1:Q:134:GLN:NE2	1:S:153:ALA:HA	2.21	0.55
1:T:134:GLN:NE2	1:U:153:ALA:HA	2.21	0.55
1:U:134:GLN:NE2	1:e:152:THR:O	2.38	0.55
1:U:317:ALA:HB3	1:U:340:GLY:HA3	1.88	0.55
1:Y:515:HIS:CE1	1:4:222:PHE:HB2	2.41	0.55
1:b:134:GLN:HE22	1:o:153:ALA:HA	1.70	0.55
1:c:152:THR:O	1:s:134:GLN:NE2	2.38	0.55
1:c:153:ALA:HA	1:s:134:GLN:NE2	2.21	0.55
1:e:134:GLN:HE22	1:h:153:ALA:HA	1.70	0.55
1:k:317:ALA:HB3	1:k:340:GLY:HA3	1.88	0.55
1:l:153:ALA:HA	1:n:134:GLN:HE22	1.71	0.55
1:m:134:GLN:NE2	1:s:153:ALA:HA	2.21	0.55
1:p:153:ALA:HA	1:6:134:GLN:HE22	1.71	0.55
1:p:153:ALA:HA	1:6:134:GLN:NE2	2.21	0.55
1:t:153:ALA:HA	1:y:134:GLN:HE22	1.71	0.55
1:v:153:ALA:HA	1:1:134:GLN:HE22	1.71	0.55
1:v:317:ALA:HB3	1:v:340:GLY:HA3	1.88	0.55
1:z:271:ARG:HH22	1:1:343:PRO:HD3	1.71	0.55
1:3:134:GLN:NE2	1:8:153:ALA:HA	2.21	0.55
1:3:343:PRO:HD3	1:4:271:ARG:HH22	1.71	0.55
1:A:317:ALA:HB3	1:A:340:GLY:HA3	1.88	0.55
1:I:134:GLN:HE22	1:J:153:ALA:HA	1.70	0.55
1:K:271:ARG:HH22	1:a:343:PRO:HD3	1.71	0.55
1:P:157:ILE:HD12	1:P:233:LEU:HD22	1.88	0.55
1:R:301:PRO:HA	1:R:400:ILE:HG13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:153:ALA:HA	1:i:134:GLN:NE2	2.22	0.55
1:U:180:LEU:HB2	1:U:183:LYS:HG2	1.88	0.55
1:Z:317:ALA:HB3	1:Z:340:GLY:HA3	1.88	0.55
1:f:424:PRO:CB	1:g:542:LEU:HD12	2.26	0.55
1:g:134:GLN:NE2	1:l:153:ALA:HA	2.21	0.55
1:o:271:ARG:HH22	1:p:343:PRO:HD3	1.71	0.55
1:r:153:ALA:HA	1:x:134:GLN:NE2	2.21	0.55
1:s:180:LEU:HB2	1:s:183:LYS:HG2	1.88	0.55
1:t:100:ASN:OD1	1:t:419:ILE:N	2.35	0.55
1:t:134:GLN:NE2	1:6:153:ALA:HA	2.21	0.55
1:u:134:GLN:HE22	1:2:153:ALA:HA	1.70	0.55
1:w:157:ILE:HD12	1:w:233:LEU:HD22	1.88	0.55
1:5:100:ASN:OD1	1:5:419:ILE:N	2.35	0.55
1:8:317:ALA:HB3	1:8:340:GLY:HA3	1.88	0.55
1:A:134:GLN:NE2	1:E:153:ALA:HA	2.21	0.55
1:A:134:GLN:HE22	1:E:153:ALA:HA	1.71	0.55
1:A:153:ALA:HA	1:B:134:GLN:NE2	2.22	0.55
1:E:157:ILE:HD12	1:E:233:LEU:HD22	1.88	0.55
1:I:157:ILE:HD12	1:I:233:LEU:HD22	1.88	0.55
1:J:134:GLN:NE2	1:a:153:ALA:HA	2.22	0.55
1:N:134:GLN:NE2	1:m:153:ALA:HA	2.22	0.55
1:N:157:ILE:HD12	1:N:233:LEU:HD22	1.88	0.55
1:S:157:ILE:HD12	1:S:233:LEU:HD22	1.88	0.55
1:U:134:GLN:NE2	1:e:153:ALA:HA	2.22	0.55
1:V:152:THR:O	1:W:134:GLN:NE2	2.37	0.55
1:V:343:PRO:HD3	1:X:271:ARG:HH22	1.72	0.55
1:X:153:ALA:HA	1:f:134:GLN:NE2	2.21	0.55
1:Z:153:ALA:HA	1:a:134:GLN:NE2	2.21	0.55
1:b:134:GLN:NE2	1:o:153:ALA:HA	2.21	0.55
1:c:157:ILE:HD12	1:c:233:LEU:HD22	1.88	0.55
1:e:157:ILE:HD12	1:e:233:LEU:HD22	1.88	0.55
1:g:202:LEU:N	1:g:213:GLU:OE2	2.36	0.55
1:i:157:ILE:HD12	1:i:233:LEU:HD22	1.88	0.55
1:j:123:PRO:HG3	1:j:481:TRP:CZ3	2.40	0.55
1:j:157:ILE:HD12	1:j:233:LEU:HD22	1.88	0.55
1:k:157:ILE:HD12	1:k:233:LEU:HD22	1.88	0.55
1:r:157:ILE:HD12	1:r:233:LEU:HD22	1.88	0.55
1:u:153:ALA:HA	1:5:134:GLN:NE2	2.21	0.55
1:u:180:LEU:HB2	1:u:183:LYS:HG2	1.88	0.55
1:v:134:GLN:NE2	1:w:153:ALA:HA	2.21	0.55
1:v:153:ALA:HA	1:l:134:GLN:NE2	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:134:GLN:NE2	1:3:153:ALA:HA	2.21	0.55
1:4:157:ILE:HD12	1:4:233:LEU:HD22	1.88	0.55
1:5:271:ARG:HH22	1:6:343:PRO:HD3	1.71	0.55
1:6:100:ASN:OD1	1:6:419:ILE:N	2.35	0.55
1:7:123:PRO:HG3	1:7:481:TRP:CZ3	2.40	0.55
1:B:153:ALA:HA	1:C:134:GLN:NE2	2.21	0.55
1:C:542:LEU:HD12	1:b:424:PRO:CB	2.26	0.55
1:D:157:ILE:HD12	1:D:233:LEU:HD22	1.88	0.55
1:G:100:ASN:OD1	1:G:419:ILE:N	2.35	0.55
1:I:180:LEU:HB2	1:I:183:LYS:HG2	1.88	0.55
1:K:134:GLN:HE22	1:L:153:ALA:HA	1.71	0.55
1:K:157:ILE:HD12	1:K:233:LEU:HD22	1.88	0.55
1:O:317:ALA:HB3	1:O:340:GLY:HA3	1.88	0.55
1:Q:317:ALA:HB3	1:Q:340:GLY:HA3	1.88	0.55
1:S:123:PRO:HG3	1:S:481:TRP:CZ3	2.41	0.55
1:V:157:ILE:HD12	1:V:233:LEU:HD22	1.88	0.55
1:X:153:ALA:HA	1:f:134:GLN:HE22	1.70	0.55
1:Y:123:PRO:HG3	1:Y:481:TRP:CZ3	2.40	0.55
1:Z:291:TYR:OH	1:4:313:SER:O	2.17	0.55
1:a:100:ASN:OD1	1:a:419:ILE:N	2.35	0.55
1:a:317:ALA:HB3	1:a:340:GLY:HA3	1.88	0.55
1:w:123:PRO:HG3	1:w:481:TRP:CZ3	2.40	0.55
1:x:317:ALA:HB3	1:x:340:GLY:HA3	1.88	0.55
1:z:313:SER:O	1:2:291:TYR:OH	2.16	0.55
1:F:134:GLN:NE2	1:G:153:ALA:HA	2.21	0.55
1:H:100:ASN:OD1	1:H:419:ILE:N	2.35	0.55
1:H:134:GLN:NE2	1:I:153:ALA:HA	2.22	0.55
1:M:134:GLN:NE2	1:N:153:ALA:HA	2.22	0.55
1:P:123:PRO:HG3	1:P:481:TRP:CZ3	2.40	0.55
1:U:157:ILE:HD12	1:U:233:LEU:HD22	1.88	0.55
1:V:317:ALA:HB3	1:V:340:GLY:HA3	1.88	0.55
1:Z:153:ALA:HA	1:a:134:GLN:HE22	1.70	0.55
1:g:317:ALA:HB3	1:g:340:GLY:HA3	1.88	0.55
1:l:317:ALA:HB3	1:l:340:GLY:HA3	1.88	0.55
1:o:100:ASN:OD1	1:o:419:ILE:N	2.35	0.55
1:p:157:ILE:HD12	1:p:233:LEU:HD22	1.88	0.55
1:p:317:ALA:HB3	1:p:340:GLY:HA3	1.88	0.55
1:u:157:ILE:HD12	1:u:233:LEU:HD22	1.88	0.55
1:3:100:ASN:OD1	1:3:419:ILE:N	2.35	0.55
1:C:317:ALA:HB3	1:C:340:GLY:HA3	1.88	0.55
1:E:123:PRO:HG3	1:E:481:TRP:CZ3	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:152:THR:O	1:d:134:GLN:NE2	2.38	0.55
1:O:343:PRO:HD3	1:n:271:ARG:HH22	1.71	0.55
1:R:317:ALA:HB3	1:R:340:GLY:HA3	1.88	0.55
1:T:271:ARG:HH22	1:d:343:PRO:HD3	1.70	0.55
1:T:424:PRO:CB	1:l:542:LEU:HD11	2.20	0.55
1:W:317:ALA:HB3	1:W:340:GLY:HA3	1.88	0.55
1:f:153:ALA:HA	1:z:134:GLN:HE22	1.71	0.55
1:h:134:GLN:NE2	1:i:153:ALA:HA	2.22	0.55
1:k:153:ALA:HA	1:w:134:GLN:HE22	1.71	0.55
1:o:157:ILE:HD12	1:o:233:LEU:HD22	1.88	0.55
1:q:317:ALA:HB3	1:q:340:GLY:HA3	1.88	0.55
1:r:123:PRO:HG3	1:r:481:TRP:CZ3	2.41	0.55
1:s:157:ILE:HD12	1:s:233:LEU:HD22	1.88	0.55
1:t:153:ALA:HA	1:y:134:GLN:NE2	2.21	0.55
1:u:542:LEU:HD11	1:v:424:PRO:CB	2.20	0.55
1:z:153:ALA:HA	1:4:134:GLN:NE2	2.22	0.55
1:z:157:ILE:HD12	1:z:233:LEU:HD22	1.88	0.55
1:3:134:GLN:HE22	1:8:153:ALA:HA	1.70	0.55
1:3:317:ALA:HB3	1:3:340:GLY:HA3	1.88	0.55
1:6:317:ALA:HB3	1:6:340:GLY:HA3	1.88	0.55
1:D:153:ALA:HA	1:E:134:GLN:NE2	2.22	0.55
1:F:153:ALA:HA	1:R:134:GLN:HE22	1.71	0.55
1:K:134:GLN:NE2	1:L:153:ALA:HA	2.21	0.55
1:P:134:GLN:NE2	1:Q:153:ALA:HA	2.22	0.55
1:T:313:SER:O	1:l:291:TYR:OH	2.17	0.55
1:W:100:ASN:OD1	1:W:419:ILE:N	2.35	0.55
1:Z:535:LYS:NZ	1:4:427:ASP:OD2	2.32	0.55
1:b:100:ASN:OD1	1:b:419:ILE:N	2.35	0.55
1:b:180:LEU:HB2	1:b:183:LYS:HG2	1.88	0.55
1:d:271:ARG:HH22	1:l:343:PRO:HD3	1.71	0.55
1:e:123:PRO:HG3	1:e:481:TRP:CZ3	2.40	0.55
1:f:180:LEU:HB2	1:f:183:LYS:HG2	1.88	0.55
1:j:134:GLN:NE2	1:x:153:ALA:HA	2.22	0.55
1:k:153:ALA:HA	1:w:134:GLN:NE2	2.21	0.55
1:n:317:ALA:HB3	1:n:340:GLY:HA3	1.88	0.55
1:q:134:GLN:HE22	1:y:153:ALA:HA	1.71	0.55
1:t:180:LEU:HB2	1:t:183:LYS:HG2	1.88	0.55
1:u:271:ARG:HH22	1:v:343:PRO:HD3	1.70	0.55
1:x:157:ILE:HD12	1:x:233:LEU:HD22	1.88	0.55
1:z:153:ALA:HA	1:4:134:GLN:HE22	1.71	0.55
1:3:157:ILE:HD12	1:3:233:LEU:HD22	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:343:PRO:HD3	1:7:271:ARG:HH22	1.71	0.55
1:6:157:ILE:HD12	1:6:233:LEU:HD22	1.88	0.55
1:C:152:THR:O	1:D:134:GLN:NE2	2.37	0.55
1:C:180:LEU:HB2	1:C:183:LYS:HG2	1.88	0.55
1:G:535:LYS:NZ	1:I:427:ASP:OD2	2.32	0.55
1:H:180:LEU:HB2	1:H:183:LYS:HG2	1.88	0.55
1:J:291:TYR:OH	1:L:313:SER:O	2.16	0.55
1:K:153:ALA:HA	1:7:134:GLN:NE2	2.21	0.55
1:K:427:ASP:OD2	1:8:535:LYS:NZ	2.32	0.55
1:L:157:ILE:HD12	1:L:233:LEU:HD22	1.88	0.55
1:M:424:PRO:CB	1:b:542:LEU:HD12	2.27	0.55
1:O:180:LEU:HB2	1:O:183:LYS:HG2	1.88	0.55
1:S:134:GLN:NE2	1:d:152:THR:O	2.38	0.55
1:S:271:ARG:HH22	1:U:343:PRO:HD3	1.71	0.55
1:T:180:LEU:HB2	1:T:183:LYS:HG2	1.88	0.55
1:W:157:ILE:HD12	1:W:233:LEU:HD22	1.88	0.55
1:X:157:ILE:HD12	1:X:233:LEU:HD22	1.88	0.55
1:a:157:ILE:HD12	1:a:233:LEU:HD22	1.88	0.55
1:d:317:ALA:HB3	1:d:340:GLY:HA3	1.88	0.55
1:e:134:GLN:NE2	1:h:152:THR:O	2.37	0.55
1:f:100:ASN:OD1	1:f:419:ILE:N	2.35	0.55
1:g:180:LEU:HB2	1:g:183:LYS:HG2	1.88	0.55
1:l:180:LEU:HB2	1:l:183:LYS:HG2	1.88	0.55
1:m:180:LEU:HB2	1:m:183:LYS:HG2	1.88	0.55
1:m:271:ARG:HH22	1:n:343:PRO:HD3	1.71	0.55
1:o:134:GLN:HE22	1:7:153:ALA:HA	1.71	0.55
1:o:180:LEU:HB2	1:o:183:LYS:HG2	1.88	0.55
1:u:153:ALA:HA	1:5:134:GLN:HE22	1.71	0.55
1:A:343:PRO:HD3	1:I:271:ARG:HH22	1.71	0.55
1:B:180:LEU:HB2	1:B:183:LYS:HG2	1.88	0.55
1:D:153:ALA:HA	1:E:134:GLN:HE22	1.71	0.55
1:G:180:LEU:HB2	1:G:183:LYS:HG2	1.88	0.55
1:J:317:ALA:HB3	1:J:340:GLY:HA3	1.88	0.55
1:L:134:GLN:HE22	1:b:153:ALA:HA	1.71	0.55
1:O:542:LEU:HD11	1:m:424:PRO:CB	2.20	0.55
1:Q:157:ILE:HD12	1:Q:233:LEU:HD22	1.88	0.55
1:X:180:LEU:HB2	1:X:183:LYS:HG2	1.88	0.55
1:b:317:ALA:HB3	1:b:340:GLY:HA3	1.88	0.55
1:c:123:PRO:HG3	1:c:481:TRP:CZ3	2.40	0.55
1:c:180:LEU:HB2	1:c:183:LYS:HG2	1.88	0.55
1:d:180:LEU:HB2	1:d:183:LYS:HG2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:153:ALA:HA	1:z:134:GLN:NE2	2.22	0.55
1:f:317:ALA:HB3	1:f:340:GLY:HA3	1.88	0.55
1:j:222:PHE:HB2	1:l:515:HIS:CE1	2.42	0.55
1:n:180:LEU:HB2	1:n:183:LYS:HG2	1.88	0.55
1:q:271:ARG:HH22	1:r:343:PRO:HD3	1.71	0.55
1:r:271:ARG:HH22	1:s:343:PRO:HD3	1.71	0.55
1:v:180:LEU:HB2	1:v:183:LYS:HG2	1.88	0.55
1:1:317:ALA:HB3	1:1:340:GLY:HA3	1.88	0.55
1:A:180:LEU:HB2	1:A:183:LYS:HG2	1.88	0.54
1:B:317:ALA:HB3	1:B:340:GLY:HA3	1.88	0.54
1:C:222:PHE:HB2	1:D:515:HIS:CE1	2.42	0.54
1:F:153:ALA:HA	1:R:134:GLN:NE2	2.22	0.54
1:M:152:THR:O	1:c:134:GLN:NE2	2.37	0.54
1:O:153:ALA:HA	1:d:134:GLN:NE2	2.21	0.54
1:O:515:HIS:CE1	1:P:222:PHE:HB2	2.42	0.54
1:X:100:ASN:OD1	1:X:419:ILE:N	2.35	0.54
1:e:180:LEU:HB2	1:e:183:LYS:HG2	1.88	0.54
1:l:152:THR:O	1:n:134:GLN:NE2	2.38	0.54
1:n:152:THR:O	1:r:134:GLN:NE2	2.38	0.54
1:2:317:ALA:HB3	1:2:340:GLY:HA3	1.88	0.54
1:A:271:ARG:HH22	1:G:343:PRO:HD3	1.71	0.54
1:A:424:PRO:CB	1:I:542:LEU:HD11	2.20	0.54
1:D:535:LYS:NZ	1:N:427:ASP:OD2	2.31	0.54
1:H:134:GLN:HE22	1:I:153:ALA:HA	1.71	0.54
1:H:222:PHE:HB2	1:Z:515:HIS:CE1	2.42	0.54
1:I:515:HIS:CE1	1:J:222:PHE:HB2	2.43	0.54
1:K:222:PHE:HB2	1:7:515:HIS:CE1	2.42	0.54
1:L:134:GLN:NE2	1:b:153:ALA:HA	2.22	0.54
1:R:271:ARG:HH22	1:S:343:PRO:HD3	1.71	0.54
1:b:254:ARG:N	1:b:538:ILE:O	2.27	0.54
1:f:254:ARG:N	1:f:538:ILE:O	2.27	0.54
1:g:152:THR:O	1:k:134:GLN:NE2	2.37	0.54
1:g:222:PHE:HB2	1:k:515:HIS:CE1	2.42	0.54
1:l:153:ALA:HA	1:n:134:GLN:NE2	2.21	0.54
1:o:134:GLN:NE2	1:7:152:THR:O	2.38	0.54
1:t:343:PRO:HD3	1:v:271:ARG:HH22	1.71	0.54
1:u:515:HIS:CE1	1:2:222:PHE:HB2	2.43	0.54
1:1:180:LEU:HB2	1:1:183:LYS:HG2	1.88	0.54
1:5:180:LEU:HB2	1:5:183:LYS:HG2	1.88	0.54
1:C:153:ALA:HA	1:D:134:GLN:NE2	2.21	0.54
1:G:541:VAL:O	1:G:542:LEU:OXT	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:427:ASP:OD2	1:Y:535:LYS:NZ	2.30	0.54
1:R:152:THR:O	1:V:134:GLN:NE2	2.38	0.54
1:X:317:ALA:HB3	1:X:340:GLY:HA3	1.88	0.54
1:f:542:LEU:HD12	1:h:424:PRO:CB	2.27	0.54
1:j:317:ALA:HB3	1:j:340:GLY:HA3	1.88	0.54
1:j:541:VAL:O	1:j:542:LEU:OXT	2.26	0.54
1:q:134:GLN:NE2	1:y:153:ALA:HA	2.22	0.54
1:t:515:HIS:CE1	1:6:222:PHE:HB2	2.43	0.54
1:t:535:LYS:NZ	1:u:427:ASP:OD2	2.32	0.54
1:u:100:ASN:OD1	1:u:419:ILE:N	2.35	0.54
1:5:153:ALA:HA	1:8:134:GLN:NE2	2.21	0.54
1:5:317:ALA:HB3	1:5:340:GLY:HA3	1.88	0.54
1:7:100:ASN:OD1	1:7:419:ILE:N	2.35	0.54
1:B:541:VAL:O	1:B:542:LEU:OXT	2.26	0.54
1:P:541:VAL:O	1:P:542:LEU:OXT	2.26	0.54
1:V:322:CYS:HB3	1:V:338:GLY:HA3	1.90	0.54
1:V:541:VAL:O	1:V:542:LEU:OXT	2.26	0.54
1:X:322:CYS:HB3	1:X:338:GLY:HA3	1.90	0.54
1:Y:100:ASN:OD1	1:Y:419:ILE:N	2.35	0.54
1:p:134:GLN:NE2	1:q:152:THR:O	2.38	0.54
1:p:322:CYS:HB3	1:p:338:GLY:HA3	1.90	0.54
1:p:541:VAL:O	1:p:542:LEU:OXT	2.26	0.54
1:t:291:TYR:OH	1:u:313:SER:O	2.17	0.54
1:t:541:VAL:O	1:t:542:LEU:OXT	2.26	0.54
1:x:541:VAL:O	1:x:542:LEU:OXT	2.26	0.54
1:1:322:CYS:HB3	1:1:338:GLY:HA3	1.90	0.54
1:1:541:VAL:O	1:1:542:LEU:OXT	2.26	0.54
1:4:541:VAL:O	1:4:542:LEU:OXT	2.26	0.54
1:7:322:CYS:HB3	1:7:338:GLY:HA3	1.90	0.54
1:B:322:CYS:HB3	1:B:338:GLY:HA3	1.90	0.54
1:E:317:ALA:HB3	1:E:340:GLY:HA3	1.88	0.54
1:G:317:ALA:HB3	1:G:340:GLY:HA3	1.88	0.54
1:H:153:ALA:HA	1:Z:134:GLN:NE2	2.21	0.54
1:H:317:ALA:HB3	1:H:340:GLY:HA3	1.88	0.54
1:I:134:GLN:NE2	1:J:153:ALA:HA	2.21	0.54
1:I:541:VAL:O	1:I:542:LEU:OXT	2.26	0.54
1:K:541:VAL:O	1:K:542:LEU:OXT	2.26	0.54
1:L:541:VAL:O	1:L:542:LEU:OXT	2.26	0.54
1:M:317:ALA:HB3	1:M:340:GLY:HA3	1.88	0.54
1:M:322:CYS:HB3	1:M:338:GLY:HA3	1.90	0.54
1:N:134:GLN:NE2	1:m:152:THR:O	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:317:ALA:HB3	1:P:340:GLY:HA3	1.88	0.54
1:Q:541:VAL:O	1:Q:542:LEU:OXT	2.26	0.54
1:W:541:VAL:O	1:W:542:LEU:OXT	2.26	0.54
1:c:541:VAL:O	1:c:542:LEU:OXT	2.26	0.54
1:e:541:VAL:O	1:e:542:LEU:OXT	2.26	0.54
1:f:157:ILE:HD12	1:f:233:LEU:HD22	1.88	0.54
1:g:153:ALA:HA	1:k:134:GLN:NE2	2.21	0.54
1:g:515:HIS:CE1	1:l:222:PHE:HB2	2.43	0.54
1:h:322:CYS:HB3	1:h:338:GLY:HA3	1.90	0.54
1:o:317:ALA:HB3	1:o:340:GLY:HA3	1.88	0.54
1:o:322:CYS:HB3	1:o:338:GLY:HA3	1.90	0.54
1:t:115:THR:O	1:t:252:ASN:ND2	2.33	0.54
1:t:317:ALA:HB3	1:t:340:GLY:HA3	1.88	0.54
1:w:317:ALA:HB3	1:w:340:GLY:HA3	1.88	0.54
1:z:541:VAL:O	1:z:542:LEU:OXT	2.26	0.54
1:6:541:VAL:O	1:6:542:LEU:OXT	2.26	0.54
1:B:222:PHE:HB2	1:C:515:HIS:CE1	2.43	0.54
1:F:322:CYS:HB3	1:F:338:GLY:HA3	1.90	0.54
1:G:115:THR:O	1:G:252:ASN:ND2	2.33	0.54
1:Q:322:CYS:HB3	1:Q:338:GLY:HA3	1.90	0.54
1:S:322:CYS:HB3	1:S:338:GLY:HA3	1.90	0.54
1:T:152:THR:O	1:i:134:GLN:NE2	2.38	0.54
1:T:322:CYS:HB3	1:T:338:GLY:HA3	1.90	0.54
1:Y:322:CYS:HB3	1:Y:338:GLY:HA3	1.90	0.54
1:a:322:CYS:HB3	1:a:338:GLY:HA3	1.90	0.54
1:b:157:ILE:HD12	1:b:233:LEU:HD22	1.88	0.54
1:i:317:ALA:HB3	1:i:340:GLY:HA3	1.88	0.54
1:m:322:CYS:HB3	1:m:338:GLY:HA3	1.90	0.54
1:r:322:CYS:HB3	1:r:338:GLY:HA3	1.90	0.54
1:u:152:THR:O	1:5:134:GLN:NE2	2.38	0.54
1:u:541:VAL:O	1:u:542:LEU:OXT	2.26	0.54
1:x:322:CYS:HB3	1:x:338:GLY:HA3	1.90	0.54
1:2:515:HIS:CE1	1:3:222:PHE:HB2	2.43	0.54
1:5:222:PHE:HB2	1:8:515:HIS:CE1	2.43	0.54
1:6:291:TYR:OH	1:7:313:SER:O	2.17	0.54
1:A:541:VAL:O	1:A:542:LEU:OXT	2.26	0.54
1:H:322:CYS:HB3	1:H:338:GLY:HA3	1.90	0.54
1:J:515:HIS:CE1	1:a:222:PHE:HB2	2.43	0.54
1:N:317:ALA:HB3	1:N:340:GLY:HA3	1.88	0.54
1:N:515:HIS:CE1	1:m:222:PHE:HB2	2.43	0.54
1:T:222:PHE:HB2	1:i:515:HIS:CE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:272:VAL:HG22	1:Y:360:TYR:CE2	2.43	0.54
1:d:541:VAL:O	1:d:542:LEU:OXT	2.26	0.54
1:f:541:VAL:O	1:f:542:LEU:OXT	2.26	0.54
1:h:157:ILE:HD12	1:h:233:LEU:HD22	1.88	0.54
1:h:317:ALA:HB3	1:h:340:GLY:HA3	1.88	0.54
1:n:541:VAL:O	1:n:542:LEU:OXT	2.26	0.54
1:u:134:GLN:NE2	1:2:153:ALA:HA	2.21	0.54
1:v:515:HIS:CE1	1:w:222:PHE:HB2	2.43	0.54
1:v:541:VAL:O	1:v:542:LEU:OXT	2.26	0.54
1:y:322:CYS:HB3	1:y:338:GLY:HA3	1.90	0.54
1:3:322:CYS:HB3	1:3:338:GLY:HA3	1.90	0.54
1:6:272:VAL:HG22	1:7:360:TYR:CE2	2.43	0.54
1:C:360:TYR:CE2	1:M:272:VAL:HG22	2.42	0.54
1:D:322:CYS:HB3	1:D:338:GLY:HA3	1.90	0.54
1:K:515:HIS:CE1	1:L:222:PHE:HB2	2.43	0.54
1:N:272:VAL:HG22	1:P:360:TYR:CE2	2.43	0.54
1:O:222:PHE:HB2	1:d:515:HIS:CE1	2.43	0.54
1:S:541:VAL:O	1:S:542:LEU:OXT	2.26	0.54
1:Y:317:ALA:HB3	1:Y:340:GLY:HA3	1.88	0.54
1:Z:541:VAL:O	1:Z:542:LEU:OXT	2.26	0.54
1:b:541:VAL:O	1:b:542:LEU:OXT	2.26	0.54
1:h:541:VAL:O	1:h:542:LEU:OXT	2.26	0.54
1:i:272:VAL:HG22	1:j:360:TYR:CE2	2.43	0.54
1:l:222:PHE:HB2	1:n:515:HIS:CE1	2.43	0.54
1:o:541:VAL:O	1:o:542:LEU:OXT	2.26	0.54
1:r:222:PHE:HB2	1:x:515:HIS:CE1	2.43	0.54
1:3:360:TYR:CE2	1:4:272:VAL:HG22	2.43	0.54
1:6:535:LYS:NZ	1:7:427:ASP:OD2	2.32	0.54
1:A:515:HIS:CE1	1:E:222:PHE:HB2	2.43	0.54
1:E:360:TYR:CE2	1:F:272:VAL:HG22	2.43	0.54
1:G:515:HIS:CE1	1:W:222:PHE:HB2	2.43	0.54
1:M:157:ILE:HD12	1:M:233:LEU:HD22	1.88	0.54
1:M:541:VAL:O	1:M:542:LEU:OXT	2.26	0.54
1:P:180:LEU:HB2	1:P:183:LYS:HG2	1.88	0.54
1:Q:515:HIS:CE1	1:S:222:PHE:HB2	2.43	0.54
1:X:541:VAL:O	1:X:542:LEU:OXT	2.26	0.54
1:d:322:CYS:HB3	1:d:338:GLY:HA3	1.90	0.54
1:g:541:VAL:O	1:g:542:LEU:OXT	2.26	0.54
1:k:322:CYS:HB3	1:k:338:GLY:HA3	1.90	0.54
1:l:322:CYS:HB3	1:l:338:GLY:HA3	1.90	0.54
1:l:541:VAL:O	1:l:542:LEU:OXT	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:322:CYS:HB3	1:n:338:GLY:HA3	1.90	0.54
1:p:152:THR:O	1:6:134:GLN:NE2	2.38	0.54
1:q:180:LEU:HB2	1:q:183:LYS:HG2	1.88	0.54
1:r:541:VAL:O	1:r:542:LEU:OXT	2.26	0.54
1:5:272:VAL:HG22	1:6:360:TYR:CE2	2.43	0.54
1:7:317:ALA:HB3	1:7:340:GLY:HA3	1.88	0.54
1:8:541:VAL:O	1:8:542:LEU:OXT	2.26	0.54
1:C:272:VAL:HG22	1:b:360:TYR:CE2	2.43	0.54
1:C:541:VAL:O	1:C:542:LEU:OXT	2.26	0.54
1:H:134:GLN:NE2	1:I:152:THR:O	2.38	0.54
1:K:272:VAL:HG22	1:a:360:TYR:CE2	2.43	0.54
1:O:541:VAL:O	1:O:542:LEU:OXT	2.26	0.54
1:S:134:GLN:NE2	1:d:153:ALA:HA	2.21	0.54
1:T:515:HIS:CE1	1:U:222:PHE:HB2	2.43	0.54
1:V:360:TYR:CE2	1:X:272:VAL:HG22	2.42	0.54
1:X:134:GLN:NE2	1:Y:153:ALA:HA	2.23	0.54
1:f:360:TYR:CE2	1:g:272:VAL:HG22	2.43	0.54
1:g:360:TYR:CE2	1:h:272:VAL:HG22	2.43	0.54
1:j:180:LEU:HB2	1:j:183:LYS:HG2	1.88	0.54
1:j:291:TYR:OH	1:k:313:SER:O	2.17	0.54
1:r:272:VAL:HG22	1:s:360:TYR:CE2	2.43	0.54
1:s:541:VAL:O	1:s:542:LEU:OXT	2.26	0.54
1:z:322:CYS:HB3	1:z:338:GLY:HA3	1.90	0.54
1:5:322:CYS:HB3	1:5:338:GLY:HA3	1.90	0.54
1:A:322:CYS:HB3	1:A:338:GLY:HA3	1.90	0.53
1:O:322:CYS:HB3	1:O:338:GLY:HA3	1.90	0.53
1:S:272:VAL:HG22	1:U:360:TYR:CE2	2.43	0.53
1:U:541:VAL:O	1:U:542:LEU:OXT	2.26	0.53
1:Y:541:VAL:O	1:Y:542:LEU:OXT	2.26	0.53
1:Z:222:PHE:HB2	1:a:515:HIS:CE1	2.43	0.53
1:Z:272:VAL:HG22	1:4:360:TYR:CE2	2.43	0.53
1:a:541:VAL:O	1:a:542:LEU:OXT	2.26	0.53
1:i:535:LYS:NZ	1:j:427:ASP:OD2	2.31	0.53
1:p:222:PHE:HB2	1:6:515:HIS:CE1	2.43	0.53
1:u:272:VAL:HG22	1:v:360:TYR:CE2	2.43	0.53
1:w:360:TYR:CE2	1:y:272:VAL:HG22	2.43	0.53
1:z:222:PHE:HB2	1:4:515:HIS:CE1	2.43	0.53
1:A:360:TYR:CE2	1:I:272:VAL:HG22	2.44	0.53
1:K:360:TYR:CE2	1:8:272:VAL:HG22	2.43	0.53
1:R:180:LEU:HB2	1:R:183:LYS:HG2	1.88	0.53
1:R:360:TYR:CE2	1:U:272:VAL:HG22	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:541:VAL:O	1:R:542:LEU:OXT	2.26	0.53
1:T:360:TYR:CE2	1:l:272:VAL:HG22	2.43	0.53
1:U:515:HIS:CE1	1:e:222:PHE:HB2	2.43	0.53
1:Z:360:TYR:CE2	1:3:272:VAL:HG22	2.43	0.53
1:h:515:HIS:CE1	1:i:222:PHE:HB2	2.43	0.53
1:k:541:VAL:O	1:k:542:LEU:OXT	2.26	0.53
1:m:515:HIS:CE1	1:s:222:PHE:HB2	2.43	0.53
1:n:153:ALA:HA	1:r:134:GLN:NE2	2.21	0.53
1:1:272:VAL:HG22	1:2:360:TYR:CE2	2.43	0.53
1:3:541:VAL:O	1:3:542:LEU:OXT	2.26	0.53
1:7:541:VAL:O	1:7:542:LEU:OXT	2.26	0.53
1:B:272:VAL:HG22	1:J:360:TYR:CE2	2.43	0.53
1:D:152:THR:O	1:E:134:GLN:NE2	2.39	0.53
1:D:541:VAL:O	1:D:542:LEU:OXT	2.26	0.53
1:I:317:ALA:HB3	1:I:340:GLY:HA3	1.88	0.53
1:J:272:VAL:HG22	1:L:360:TYR:CE2	2.43	0.53
1:L:322:CYS:HB3	1:L:338:GLY:HA3	1.90	0.53
1:M:222:PHE:HB2	1:c:515:HIS:CE1	2.43	0.53
1:M:515:HIS:CE1	1:N:222:PHE:HB2	2.43	0.53
1:S:515:HIS:CE1	1:d:222:PHE:HB2	2.43	0.53
1:T:541:VAL:O	1:T:542:LEU:OXT	2.26	0.53
1:V:272:VAL:HG22	1:e:360:TYR:CE2	2.43	0.53
1:W:322:CYS:HB3	1:W:338:GLY:HA3	1.90	0.53
1:X:134:GLN:NE2	1:Y:152:THR:O	2.39	0.53
1:a:272:VAL:HG22	1:8:360:TYR:CE2	2.43	0.53
1:b:134:GLN:NE2	1:o:152:THR:O	2.37	0.53
1:c:222:PHE:HB2	1:s:515:HIS:CE1	2.43	0.53
1:c:272:VAL:HG22	1:o:360:TYR:CE2	2.43	0.53
1:c:360:TYR:CE2	1:p:272:VAL:HG22	2.43	0.53
1:e:515:HIS:CE1	1:h:222:PHE:HB2	2.43	0.53
1:m:541:VAL:O	1:m:542:LEU:OXT	2.26	0.53
1:n:222:PHE:HB2	1:r:515:HIS:CE1	2.43	0.53
1:o:515:HIS:CE1	1:7:222:PHE:HB2	2.44	0.53
1:q:360:TYR:CE2	1:s:272:VAL:HG22	2.43	0.53
1:q:541:VAL:O	1:q:542:LEU:OXT	2.26	0.53
1:v:322:CYS:HB3	1:v:338:GLY:HA3	1.90	0.53
1:x:272:VAL:HG22	1:y:360:TYR:CE2	2.43	0.53
1:4:322:CYS:HB3	1:4:338:GLY:HA3	1.90	0.53
1:D:360:TYR:CE2	1:P:272:VAL:HG22	2.44	0.53
1:F:360:TYR:CE2	1:Q:272:VAL:HG22	2.43	0.53
1:K:322:CYS:HB3	1:K:338:GLY:HA3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:272:VAL:HG22	1:m:360:TYR:CE2	2.43	0.53
1:O:360:TYR:CE2	1:n:272:VAL:HG22	2.43	0.53
1:R:272:VAL:HG22	1:S:360:TYR:CE2	2.43	0.53
1:R:322:CYS:HB3	1:R:338:GLY:HA3	1.90	0.53
1:o:272:VAL:HG22	1:p:360:TYR:CE2	2.43	0.53
1:q:322:CYS:HB3	1:q:338:GLY:HA3	1.90	0.53
1:u:322:CYS:HB3	1:u:338:GLY:HA3	1.90	0.53
1:w:272:VAL:HG22	1:x:360:TYR:CE2	2.43	0.53
1:z:360:TYR:CE2	1:2:272:VAL:HG22	2.43	0.53
1:3:515:HIS:CE1	1:8:222:PHE:HB2	2.43	0.53
1:6:322:CYS:HB3	1:6:338:GLY:HA3	1.90	0.53
1:A:495:ARG:O	1:A:496:ARG:NH1	2.42	0.53
1:C:322:CYS:HB3	1:C:338:GLY:HA3	1.90	0.53
1:D:272:VAL:HG22	1:N:360:TYR:CE2	2.44	0.53
1:D:313:SER:O	1:P:291:TYR:OH	2.17	0.53
1:E:272:VAL:HG22	1:Q:360:TYR:CE2	2.43	0.53
1:F:222:PHE:HB2	1:R:515:HIS:CE1	2.43	0.53
1:H:515:HIS:CE1	1:I:222:PHE:HB2	2.43	0.53
1:I:322:CYS:HB3	1:I:338:GLY:HA3	1.90	0.53
1:N:322:CYS:HB3	1:N:338:GLY:HA3	1.90	0.53
1:P:322:CYS:HB3	1:P:338:GLY:HA3	1.90	0.53
1:R:222:PHE:HB2	1:V:515:HIS:CE1	2.43	0.53
1:T:272:VAL:HG22	1:d:360:TYR:CE2	2.43	0.53
1:d:272:VAL:HG22	1:l:360:TYR:CE2	2.43	0.53
1:j:272:VAL:HG22	1:k:360:TYR:CE2	2.44	0.53
1:j:322:CYS:HB3	1:j:338:GLY:HA3	1.90	0.53
1:m:272:VAL:HG22	1:n:360:TYR:CE2	2.43	0.53
1:p:515:HIS:CE1	1:q:222:PHE:HB2	2.43	0.53
1:q:272:VAL:HG22	1:r:360:TYR:CE2	2.43	0.53
1:u:222:PHE:HB2	1:5:515:HIS:CE1	2.43	0.53
1:u:317:ALA:HB3	1:u:340:GLY:HA3	1.88	0.53
1:E:541:VAL:O	1:E:542:LEU:OXT	2.26	0.53
1:H:272:VAL:HG22	1:W:360:TYR:CE2	2.44	0.53
1:I:134:GLN:NE2	1:J:152:THR:O	2.37	0.53
1:S:495:ARG:O	1:S:496:ARG:NH1	2.42	0.53
1:V:313:SER:O	1:X:291:TYR:OH	2.17	0.53
1:X:152:THR:O	1:f:134:GLN:NE2	2.37	0.53
1:X:360:TYR:CE2	1:e:272:VAL:HG22	2.44	0.53
1:X:495:ARG:O	1:X:496:ARG:NH1	2.42	0.53
1:f:115:THR:O	1:f:252:ASN:ND2	2.32	0.53
1:g:322:CYS:HB3	1:g:338:GLY:HA3	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:322:CYS:HB3	1:i:338:GLY:HA3	1.90	0.53
1:i:360:TYR:CE2	1:k:272:VAL:HG22	2.44	0.53
1:k:152:THR:O	1:w:134:GLN:NE2	2.39	0.53
1:k:222:PHE:HB2	1:w:515:HIS:CE1	2.42	0.53
1:o:495:ARG:O	1:o:496:ARG:NH1	2.42	0.53
1:q:515:HIS:CE1	1:y:222:PHE:HB2	2.43	0.53
1:r:495:ARG:O	1:r:496:ARG:NH1	2.42	0.53
1:v:495:ARG:O	1:v:496:ARG:NH1	2.42	0.53
1:w:541:VAL:O	1:w:542:LEU:OXT	2.26	0.53
1:2:541:VAL:O	1:2:542:LEU:OXT	2.26	0.53
1:5:427:ASP:OD2	1:7:535:LYS:NZ	2.31	0.53
1:6:123:PRO:O	1:6:245:PHE:HB2	2.09	0.53
1:A:272:VAL:HG22	1:G:360:TYR:CE2	2.43	0.53
1:G:272:VAL:HG22	1:I:360:TYR:CE2	2.43	0.53
1:J:541:VAL:O	1:J:542:LEU:OXT	2.26	0.53
1:P:515:HIS:CE1	1:Q:222:PHE:HB2	2.43	0.53
1:V:222:PHE:HB2	1:W:515:HIS:CE1	2.43	0.53
1:W:123:PRO:O	1:W:245:PHE:HB2	2.09	0.53
1:a:123:PRO:O	1:a:245:PHE:HB2	2.09	0.53
1:b:115:THR:O	1:b:252:ASN:ND2	2.32	0.53
1:o:291:TYR:OH	1:p:313:SER:O	2.17	0.53
1:t:152:THR:O	1:y:134:GLN:NE2	2.38	0.53
1:t:272:VAL:HG22	1:u:360:TYR:CE2	2.43	0.53
1:t:322:CYS:HB3	1:t:338:GLY:HA3	1.90	0.53
1:3:123:PRO:O	1:3:245:PHE:HB2	2.09	0.53
1:5:541:VAL:O	1:5:542:LEU:OXT	2.26	0.53
1:B:360:TYR:CE2	1:L:272:VAL:HG22	2.43	0.53
1:D:222:PHE:HB2	1:E:515:HIS:CE1	2.42	0.53
1:F:134:GLN:NE2	1:G:152:THR:O	2.38	0.53
1:H:541:VAL:O	1:H:542:LEU:OXT	2.26	0.53
1:M:123:PRO:O	1:M:245:PHE:HB2	2.09	0.53
1:N:541:VAL:O	1:N:542:LEU:OXT	2.26	0.53
1:h:123:PRO:O	1:h:245:PHE:HB2	2.09	0.53
1:q:291:TYR:OH	1:r:313:SER:O	2.17	0.53
1:z:272:VAL:HG22	1:1:360:TYR:CE2	2.43	0.53
1:F:515:HIS:CE1	1:G:222:PHE:HB2	2.43	0.53
1:F:541:VAL:O	1:F:542:LEU:OXT	2.26	0.53
1:G:322:CYS:HB3	1:G:338:GLY:HA3	1.90	0.53
1:i:541:VAL:O	1:i:542:LEU:OXT	2.26	0.53
1:j:515:HIS:CE1	1:x:222:PHE:HB2	2.43	0.53
1:t:360:TYR:CE2	1:v:272:VAL:HG22	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:134:GLN:NE2	1:2:152:THR:O	2.37	0.53
1:A:222:PHE:HB2	1:B:515:HIS:CE1	2.43	0.53
1:B:152:THR:O	1:C:134:GLN:NE2	2.38	0.53
1:D:123:PRO:O	1:D:245:PHE:HB2	2.09	0.53
1:K:152:THR:O	1:7:134:GLN:NE2	2.37	0.53
1:O:123:PRO:O	1:O:245:PHE:HB2	2.09	0.53
1:b:322:CYS:HB3	1:b:338:GLY:HA3	1.90	0.53
1:f:222:PHE:HB2	1:z:515:HIS:CE1	2.43	0.53
1:t:222:PHE:HB2	1:y:515:HIS:CE1	2.43	0.53
1:t:542:LEU:HD11	1:u:424:PRO:CB	2.20	0.53
1:w:322:CYS:HB3	1:w:338:GLY:HA3	1.90	0.53
1:y:541:VAL:O	1:y:542:LEU:OXT	2.26	0.53
1:5:360:TYR:CE2	1:7:272:VAL:HG22	2.43	0.53
1:7:123:PRO:O	1:7:245:PHE:HB2	2.09	0.53
1:L:515:HIS:CE1	1:b:222:PHE:HB2	2.43	0.52
1:d:123:PRO:O	1:d:245:PHE:HB2	2.09	0.52
1:f:322:CYS:HB3	1:f:338:GLY:HA3	1.90	0.52
1:k:123:PRO:O	1:k:245:PHE:HB2	2.09	0.52
1:l:123:PRO:O	1:l:245:PHE:HB2	2.09	0.52
1:l:495:ARG:O	1:l:496:ARG:NH1	2.42	0.52
1:n:123:PRO:O	1:n:245:PHE:HB2	2.09	0.52
1:v:222:PHE:HB2	1:1:515:HIS:CE1	2.43	0.52
1:5:123:PRO:O	1:5:245:PHE:HB2	2.09	0.52
1:E:322:CYS:HB3	1:E:338:GLY:HA3	1.90	0.52
1:H:123:PRO:O	1:H:245:PHE:HB2	2.09	0.52
1:M:360:TYR:CE2	1:b:272:VAL:HG22	2.43	0.52
1:X:134:GLN:HE22	1:Y:153:ALA:HA	1.73	0.52
1:Y:123:PRO:O	1:Y:245:PHE:HB2	2.09	0.52
1:c:322:CYS:HB3	1:c:338:GLY:HA3	1.90	0.52
1:e:322:CYS:HB3	1:e:338:GLY:HA3	1.90	0.52
1:g:134:GLN:NE2	1:1:152:THR:O	2.37	0.52
1:B:331:ASN:OD1	1:B:332:THR:N	2.43	0.52
1:D:495:ARG:O	1:D:496:ARG:NH1	2.42	0.52
1:K:423:LYS:HE2	1:K:432:MET:HG3	1.92	0.52
1:O:495:ARG:O	1:O:496:ARG:NH1	2.42	0.52
1:R:291:TYR:OH	1:S:313:SER:O	2.17	0.52
1:S:123:PRO:O	1:S:245:PHE:HB2	2.09	0.52
1:Y:134:GLN:NE2	1:4:152:THR:O	2.38	0.52
1:k:495:ARG:O	1:k:496:ARG:NH1	2.42	0.52
1:o:123:PRO:O	1:o:245:PHE:HB2	2.09	0.52
1:v:123:PRO:O	1:v:245:PHE:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:123:PRO:O	1:x:245:PHE:HB2	2.09	0.52
1:1:331:ASN:OD1	1:1:332:THR:N	2.43	0.52
1:2:322:CYS:HB3	1:2:338:GLY:HA3	1.90	0.52
1:A:123:PRO:O	1:A:245:PHE:HB2	2.09	0.52
1:A:331:ASN:OD1	1:A:332:THR:N	2.43	0.52
1:J:322:CYS:HB3	1:J:338:GLY:HA3	1.90	0.52
1:K:331:ASN:OD1	1:K:332:THR:N	2.43	0.52
1:Q:123:PRO:O	1:Q:245:PHE:HB2	2.09	0.52
1:W:331:ASN:OD1	1:W:332:THR:N	2.43	0.52
1:X:123:PRO:O	1:X:245:PHE:HB2	2.09	0.52
1:X:222:PHE:HB2	1:f:515:HIS:CE1	2.43	0.52
1:Z:331:ASN:OD1	1:Z:332:THR:N	2.43	0.52
1:c:331:ASN:OD1	1:c:332:THR:N	2.43	0.52
1:e:331:ASN:OD1	1:e:332:THR:N	2.43	0.52
1:f:272:VAL:HG22	1:h:360:TYR:CE2	2.43	0.52
1:p:423:LYS:HE2	1:p:432:MET:HG3	1.92	0.52
1:r:123:PRO:O	1:r:245:PHE:HB2	2.09	0.52
1:v:331:ASN:OD1	1:v:332:THR:N	2.43	0.52
1:4:423:LYS:HE2	1:4:432:MET:HG3	1.92	0.52
1:6:331:ASN:OD1	1:6:332:THR:N	2.43	0.52
1:8:331:ASN:OD1	1:8:332:THR:N	2.43	0.52
1:C:306:ALA:HB2	1:M:388:LYS:HG3	1.92	0.52
1:E:123:PRO:O	1:E:245:PHE:HB2	2.09	0.52
1:G:423:LYS:HE2	1:G:432:MET:HG3	1.92	0.52
1:L:123:PRO:O	1:L:245:PHE:HB2	2.09	0.52
1:U:423:LYS:HE2	1:U:432:MET:HG3	1.92	0.52
1:b:515:HIS:CE1	1:o:222:PHE:HB2	2.43	0.52
1:e:123:PRO:O	1:e:245:PHE:HB2	2.09	0.52
1:t:423:LYS:HE2	1:t:432:MET:HG3	1.92	0.52
1:w:57:LYS:HG2	1:w:478:GLU:HG3	1.92	0.52
1:z:123:PRO:O	1:z:245:PHE:HB2	2.09	0.52
1:4:331:ASN:OD1	1:4:332:THR:N	2.43	0.52
1:E:57:LYS:HG2	1:E:478:GLU:HG3	1.92	0.52
1:H:57:LYS:HG2	1:H:478:GLU:HG3	1.92	0.52
1:R:331:ASN:OD1	1:R:332:THR:N	2.43	0.52
1:V:423:LYS:HE2	1:V:432:MET:HG3	1.92	0.52
1:W:495:ARG:O	1:W:496:ARG:NH1	2.42	0.52
1:Y:331:ASN:OD1	1:Y:332:THR:N	2.43	0.52
1:c:123:PRO:O	1:c:245:PHE:HB2	2.09	0.52
1:f:423:LYS:HE2	1:f:432:MET:HG3	1.92	0.52
1:g:306:ALA:HB2	1:h:388:LYS:HG3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:123:PRO:O	1:i:245:PHE:HB2	2.09	0.52
1:j:331:ASN:OD1	1:j:332:THR:N	2.43	0.52
1:q:331:ASN:OD1	1:q:332:THR:N	2.43	0.52
1:s:423:LYS:HE2	1:s:432:MET:HG3	1.92	0.52
1:w:123:PRO:O	1:w:245:PHE:HB2	2.09	0.52
1:3:57:LYS:HG2	1:3:478:GLU:HG3	1.92	0.52
1:5:57:LYS:HG2	1:5:478:GLU:HG3	1.92	0.52
1:D:331:ASN:OD1	1:D:332:THR:N	2.43	0.52
1:D:423:LYS:HE2	1:D:432:MET:HG3	1.92	0.52
1:G:331:ASN:OD1	1:G:332:THR:N	2.43	0.52
1:J:331:ASN:OD1	1:J:332:THR:N	2.43	0.52
1:L:495:ARG:O	1:L:496:ARG:NH1	2.42	0.52
1:N:123:PRO:O	1:N:245:PHE:HB2	2.09	0.52
1:P:331:ASN:OD1	1:P:332:THR:N	2.43	0.52
1:P:423:LYS:HE2	1:P:432:MET:HG3	1.92	0.52
1:V:123:PRO:O	1:V:245:PHE:HB2	2.09	0.52
1:a:57:LYS:HG2	1:a:478:GLU:HG3	1.92	0.52
1:b:423:LYS:HE2	1:b:432:MET:HG3	1.92	0.52
1:c:423:LYS:HE2	1:c:432:MET:HG3	1.92	0.52
1:g:331:ASN:OD1	1:g:332:THR:N	2.43	0.52
1:p:123:PRO:O	1:p:245:PHE:HB2	2.09	0.52
1:t:331:ASN:OD1	1:t:332:THR:N	2.43	0.52
1:z:495:ARG:O	1:z:496:ARG:NH1	2.42	0.52
1:2:331:ASN:OD1	1:2:332:THR:N	2.43	0.52
1:4:495:ARG:O	1:4:496:ARG:NH1	2.42	0.52
1:6:495:ARG:O	1:6:496:ARG:NH1	2.42	0.52
1:7:331:ASN:OD1	1:7:332:THR:N	2.43	0.52
1:C:331:ASN:OD1	1:C:332:THR:N	2.43	0.52
1:G:542:LEU:HD11	1:I:424:PRO:CB	2.20	0.52
1:I:123:PRO:O	1:I:245:PHE:HB2	2.09	0.52
1:K:495:ARG:O	1:K:496:ARG:NH1	2.42	0.52
1:R:123:PRO:O	1:R:245:PHE:HB2	2.09	0.52
1:T:331:ASN:OD1	1:T:332:THR:N	2.43	0.52
1:X:331:ASN:OD1	1:X:332:THR:N	2.43	0.52
1:e:423:LYS:HE2	1:e:432:MET:HG3	1.92	0.52
1:h:331:ASN:OD1	1:h:332:THR:N	2.43	0.52
1:j:423:LYS:HE2	1:j:432:MET:HG3	1.92	0.52
1:k:331:ASN:OD1	1:k:332:THR:N	2.43	0.52
1:k:423:LYS:HE2	1:k:432:MET:HG3	1.92	0.52
1:m:331:ASN:OD1	1:m:332:THR:N	2.43	0.52
1:o:388:LYS:HG3	1:p:306:ALA:HB2	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:423:LYS:HE2	1:v:432:MET:HG3	1.92	0.52
1:A:306:ALA:HB2	1:I:388:LYS:HG3	1.92	0.52
1:A:423:LYS:HE2	1:A:432:MET:HG3	1.92	0.52
1:G:123:PRO:O	1:G:245:PHE:HB2	2.09	0.52
1:I:57:LYS:HG2	1:I:478:GLU:HG3	1.92	0.52
1:J:123:PRO:O	1:J:245:PHE:HB2	2.09	0.52
1:M:331:ASN:OD1	1:M:332:THR:N	2.43	0.52
1:R:306:ALA:HB2	1:U:388:LYS:HG3	1.92	0.52
1:V:306:ALA:HB2	1:X:388:LYS:HG3	1.92	0.52
1:V:331:ASN:OD1	1:V:332:THR:N	2.43	0.52
1:Z:322:CYS:HB3	1:Z:338:GLY:HA3	1.90	0.52
1:o:331:ASN:OD1	1:o:332:THR:N	2.43	0.52
1:p:331:ASN:OD1	1:p:332:THR:N	2.43	0.52
1:q:123:PRO:O	1:q:245:PHE:HB2	2.09	0.52
1:q:306:ALA:HB2	1:s:388:LYS:HG3	1.92	0.52
1:s:123:PRO:O	1:s:245:PHE:HB2	2.09	0.52
1:s:331:ASN:OD1	1:s:332:THR:N	2.43	0.52
1:t:123:PRO:O	1:t:245:PHE:HB2	2.09	0.52
1:t:388:LYS:HG3	1:u:306:ALA:HB2	1.92	0.52
1:u:57:LYS:HG2	1:u:478:GLU:HG3	1.92	0.52
1:u:123:PRO:O	1:u:245:PHE:HB2	2.09	0.52
1:w:331:ASN:OD1	1:w:332:THR:N	2.43	0.52
1:w:423:LYS:HE2	1:w:432:MET:HG3	1.92	0.52
1:z:423:LYS:HE2	1:z:432:MET:HG3	1.92	0.52
1:2:123:PRO:O	1:2:245:PHE:HB2	2.09	0.52
1:2:423:LYS:HE2	1:2:432:MET:HG3	1.92	0.52
1:B:123:PRO:O	1:B:245:PHE:HB2	2.09	0.52
1:E:331:ASN:OD1	1:E:332:THR:N	2.43	0.52
1:J:423:LYS:HE2	1:J:432:MET:HG3	1.92	0.52
1:L:57:LYS:HG2	1:L:478:GLU:HG3	1.92	0.52
1:L:423:LYS:HE2	1:L:432:MET:HG3	1.92	0.52
1:N:423:LYS:HE2	1:N:432:MET:HG3	1.92	0.52
1:P:495:ARG:O	1:P:496:ARG:NH1	2.42	0.52
1:U:123:PRO:O	1:U:245:PHE:HB2	2.09	0.52
1:U:331:ASN:OD1	1:U:332:THR:N	2.43	0.52
1:f:123:PRO:O	1:f:245:PHE:HB2	2.09	0.52
1:j:495:ARG:O	1:j:496:ARG:NH1	2.42	0.52
1:s:322:CYS:HB3	1:s:338:GLY:HA3	1.90	0.52
1:z:57:LYS:HG2	1:z:478:GLU:HG3	1.92	0.52
1:1:123:PRO:O	1:1:245:PHE:HB2	2.09	0.52
1:5:331:ASN:OD1	1:5:332:THR:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:423:LYS:HE2	1:E:432:MET:HG3	1.92	0.51
1:F:331:ASN:OD1	1:F:332:THR:N	2.43	0.51
1:F:495:ARG:O	1:F:496:ARG:NH1	2.42	0.51
1:G:388:LYS:HG3	1:I:306:ALA:HB2	1.92	0.51
1:H:331:ASN:OD1	1:H:332:THR:N	2.43	0.51
1:I:331:ASN:OD1	1:I:332:THR:N	2.43	0.51
1:O:423:LYS:HE2	1:O:432:MET:HG3	1.92	0.51
1:Q:331:ASN:OD1	1:Q:332:THR:N	2.43	0.51
1:R:495:ARG:O	1:R:496:ARG:NH1	2.42	0.51
1:T:123:PRO:O	1:T:245:PHE:HB2	2.09	0.51
1:U:322:CYS:HB3	1:U:338:GLY:HA3	1.90	0.51
1:Z:152:THR:O	1:a:134:GLN:NE2	2.37	0.51
1:h:423:LYS:HE2	1:h:432:MET:HG3	1.92	0.51
1:l:423:LYS:HE2	1:l:432:MET:HG3	1.92	0.51
1:m:423:LYS:HE2	1:m:432:MET:HG3	1.92	0.51
1:q:134:GLN:NE2	1:y:152:THR:O	2.38	0.51
1:u:331:ASN:OD1	1:u:332:THR:N	2.43	0.51
1:v:57:LYS:HG2	1:v:478:GLU:HG3	1.92	0.51
1:x:495:ARG:O	1:x:496:ARG:NH1	2.42	0.51
1:y:495:ARG:O	1:y:496:ARG:NH1	2.42	0.51
1:3:331:ASN:OD1	1:3:332:THR:N	2.43	0.51
1:5:388:LYS:HG3	1:6:306:ALA:HB2	1.92	0.51
1:8:123:PRO:O	1:8:245:PHE:HB2	2.09	0.51
1:A:57:LYS:HG2	1:A:478:GLU:HG3	1.92	0.51
1:B:57:LYS:HG2	1:B:478:GLU:HG3	1.92	0.51
1:C:123:PRO:O	1:C:245:PHE:HB2	2.09	0.51
1:C:495:ARG:O	1:C:496:ARG:NH1	2.42	0.51
1:F:152:THR:O	1:R:134:GLN:NE2	2.38	0.51
1:I:423:LYS:HE2	1:I:432:MET:HG3	1.92	0.51
1:L:331:ASN:OD1	1:L:332:THR:N	2.43	0.51
1:M:423:LYS:HE2	1:M:432:MET:HG3	1.92	0.51
1:O:331:ASN:OD1	1:O:332:THR:N	2.43	0.51
1:Q:495:ARG:O	1:Q:496:ARG:NH1	2.42	0.51
1:T:423:LYS:HE2	1:T:432:MET:HG3	1.92	0.51
1:W:423:LYS:HE2	1:W:432:MET:HG3	1.92	0.51
1:X:57:LYS:HG2	1:X:478:GLU:HG3	1.92	0.51
1:Y:57:LYS:HG2	1:Y:478:GLU:HG3	1.92	0.51
1:Z:123:PRO:O	1:Z:245:PHE:HB2	2.09	0.51
1:a:331:ASN:OD1	1:a:332:THR:N	2.43	0.51
1:a:388:LYS:HG3	1:8:306:ALA:HB2	1.93	0.51
1:b:123:PRO:O	1:b:245:PHE:HB2	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:152:THR:O	1:z:134:GLN:NE2	2.38	0.51
1:g:123:PRO:O	1:g:245:PHE:HB2	2.09	0.51
1:i:423:LYS:HE2	1:i:432:MET:HG3	1.92	0.51
1:q:495:ARG:O	1:q:496:ARG:NH1	2.42	0.51
1:u:388:LYS:HG3	1:v:306:ALA:HB2	1.92	0.51
1:u:423:LYS:HE2	1:u:432:MET:HG3	1.92	0.51
1:w:306:ALA:HB2	1:y:388:LYS:HG3	1.92	0.51
1:x:331:ASN:OD1	1:x:332:THR:N	2.43	0.51
1:y:57:LYS:HG2	1:y:478:GLU:HG3	1.92	0.51
1:E:306:ALA:HB2	1:F:388:LYS:HG3	1.92	0.51
1:F:123:PRO:O	1:F:245:PHE:HB2	2.09	0.51
1:M:495:ARG:O	1:M:496:ARG:NH1	2.42	0.51
1:R:57:LYS:HG2	1:R:478:GLU:HG3	1.92	0.51
1:R:388:LYS:HG3	1:S:306:ALA:HB2	1.93	0.51
1:S:423:LYS:HE2	1:S:432:MET:HG3	1.92	0.51
1:Z:306:ALA:HB2	1:3:388:LYS:HG3	1.93	0.51
1:g:495:ARG:O	1:g:496:ARG:NH1	2.42	0.51
1:i:331:ASN:OD1	1:i:332:THR:N	2.43	0.51
1:j:123:PRO:O	1:j:245:PHE:HB2	2.09	0.51
1:l:331:ASN:OD1	1:l:332:THR:N	2.43	0.51
1:m:57:LYS:HG2	1:m:478:GLU:HG3	1.92	0.51
1:m:123:PRO:O	1:m:245:PHE:HB2	2.09	0.51
1:o:57:LYS:HG2	1:o:478:GLU:HG3	1.92	0.51
1:q:388:LYS:HG3	1:r:306:ALA:HB2	1.93	0.51
1:y:331:ASN:OD1	1:y:332:THR:N	2.43	0.51
1:1:57:LYS:HG2	1:1:478:GLU:HG3	1.92	0.51
1:6:423:LYS:HE2	1:6:432:MET:HG3	1.92	0.51
1:7:57:LYS:HG2	1:7:478:GLU:HG3	1.92	0.51
1:B:423:LYS:HE2	1:B:432:MET:HG3	1.92	0.51
1:D:57:LYS:HG2	1:D:478:GLU:HG3	1.92	0.51
1:D:306:ALA:HB2	1:P:388:LYS:HG3	1.93	0.51
1:F:57:LYS:HG2	1:F:478:GLU:HG3	1.92	0.51
1:K:57:LYS:HG2	1:K:478:GLU:HG3	1.92	0.51
1:N:57:LYS:HG2	1:N:478:GLU:HG3	1.92	0.51
1:N:331:ASN:OD1	1:N:332:THR:N	2.43	0.51
1:N:495:ARG:O	1:N:496:ARG:NH1	2.42	0.51
1:T:57:LYS:HG2	1:T:478:GLU:HG3	1.92	0.51
1:h:495:ARG:O	1:h:496:ARG:NH1	2.42	0.51
1:k:57:LYS:HG2	1:k:478:GLU:HG3	1.92	0.51
1:r:423:LYS:HE2	1:r:432:MET:HG3	1.92	0.51
1:z:331:ASN:OD1	1:z:332:THR:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:423:LYS:HE2	1:1:432:MET:HG3	1.92	0.51
1:4:57:LYS:HG2	1:4:478:GLU:HG3	1.92	0.51
1:5:495:ARG:O	1:5:496:ARG:NH1	2.42	0.51
1:8:322:CYS:HB3	1:8:338:GLY:HA3	1.90	0.51
1:F:306:ALA:HB2	1:Q:388:LYS:HG3	1.92	0.51
1:H:495:ARG:O	1:H:496:ARG:NH1	2.42	0.51
1:M:57:LYS:HG2	1:M:478:GLU:HG3	1.92	0.51
1:N:133:LEU:HD12	1:N:471:CYS:SG	2.51	0.51
1:P:123:PRO:O	1:P:245:PHE:HB2	2.09	0.51
1:S:57:LYS:HG2	1:S:478:GLU:HG3	1.92	0.51
1:b:133:LEU:HD12	1:b:471:CYS:SG	2.51	0.51
1:f:133:LEU:HD12	1:f:471:CYS:SG	2.51	0.51
1:i:57:LYS:HG2	1:i:478:GLU:HG3	1.92	0.51
1:i:495:ARG:O	1:i:496:ARG:NH1	2.42	0.51
1:j:388:LYS:HG3	1:k:306:ALA:HB2	1.93	0.51
1:q:57:LYS:HG2	1:q:478:GLU:HG3	1.92	0.51
1:y:123:PRO:O	1:y:245:PHE:HB2	2.09	0.51
1:B:306:ALA:HB2	1:L:388:LYS:HG3	1.92	0.51
1:I:495:ARG:O	1:I:496:ARG:NH1	2.42	0.51
1:L:134:GLN:NE2	1:b:152:THR:O	2.38	0.51
1:O:57:LYS:HG2	1:O:478:GLU:HG3	1.92	0.51
1:O:133:LEU:HD12	1:O:471:CYS:SG	2.51	0.51
1:S:388:LYS:HG3	1:U:306:ALA:HB2	1.92	0.51
1:V:57:LYS:HG2	1:V:478:GLU:HG3	1.92	0.51
1:W:57:LYS:HG2	1:W:478:GLU:HG3	1.92	0.51
1:W:133:LEU:HD12	1:W:471:CYS:SG	2.51	0.51
1:W:291:TYR:OH	1:Y:313:SER:O	2.18	0.51
1:a:423:LYS:HE2	1:a:432:MET:HG3	1.92	0.51
1:f:331:ASN:OD1	1:f:332:THR:N	2.43	0.51
1:h:57:LYS:HG2	1:h:478:GLU:HG3	1.92	0.51
1:i:133:LEU:HD12	1:i:471:CYS:SG	2.51	0.51
1:j:57:LYS:HG2	1:j:478:GLU:HG3	1.92	0.51
1:l:133:LEU:HD12	1:l:471:CYS:SG	2.51	0.51
1:r:57:LYS:HG2	1:r:478:GLU:HG3	1.92	0.51
1:x:57:LYS:HG2	1:x:478:GLU:HG3	1.92	0.51
1:x:388:LYS:HG3	1:y:306:ALA:HB2	1.92	0.51
1:z:388:LYS:HG3	1:1:306:ALA:HB2	1.92	0.51
1:3:133:LEU:HD12	1:3:471:CYS:SG	2.51	0.51
1:3:134:GLN:NE2	1:8:152:THR:O	2.38	0.51
1:6:57:LYS:HG2	1:6:478:GLU:HG3	1.92	0.51
1:6:133:LEU:HD12	1:6:471:CYS:SG	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:57:LYS:HG2	1:C:478:GLU:HG3	1.92	0.51
1:K:123:PRO:O	1:K:245:PHE:HB2	2.09	0.51
1:P:57:LYS:HG2	1:P:478:GLU:HG3	1.92	0.51
1:Q:57:LYS:HG2	1:Q:478:GLU:HG3	1.92	0.51
1:S:331:ASN:OD1	1:S:332:THR:N	2.43	0.51
1:S:421:CYS:N	1:S:439:ILE:O	2.42	0.51
1:U:57:LYS:HG2	1:U:478:GLU:HG3	1.92	0.51
1:V:133:LEU:HD12	1:V:471:CYS:SG	2.51	0.51
1:a:133:LEU:HD12	1:a:471:CYS:SG	2.51	0.51
1:d:133:LEU:HD12	1:d:471:CYS:SG	2.51	0.51
1:l:57:LYS:HG2	1:l:478:GLU:HG3	1.92	0.51
1:n:133:LEU:HD12	1:n:471:CYS:SG	2.51	0.51
1:n:331:ASN:OD1	1:n:332:THR:N	2.43	0.51
1:r:388:LYS:HG3	1:s:306:ALA:HB2	1.92	0.51
1:s:57:LYS:HG2	1:s:478:GLU:HG3	1.92	0.51
1:3:306:ALA:HB2	1:4:388:LYS:HG3	1.93	0.51
1:5:306:ALA:HB2	1:7:388:LYS:HG3	1.92	0.51
1:8:133:LEU:HD12	1:8:471:CYS:SG	2.51	0.51
1:G:133:LEU:HD12	1:G:471:CYS:SG	2.51	0.51
1:K:388:LYS:HG3	1:a:306:ALA:HB2	1.92	0.51
1:M:306:ALA:HB2	1:b:388:LYS:HG3	1.93	0.51
1:R:133:LEU:HD12	1:R:471:CYS:SG	2.51	0.51
1:Z:423:LYS:HE2	1:Z:432:MET:HG3	1.92	0.51
1:b:331:ASN:OD1	1:b:332:THR:N	2.43	0.51
1:f:388:LYS:HG3	1:h:306:ALA:HB2	1.93	0.51
1:g:423:LYS:HE2	1:g:432:MET:HG3	1.92	0.51
1:n:423:LYS:HE2	1:n:432:MET:HG3	1.92	0.51
1:p:57:LYS:HG2	1:p:478:GLU:HG3	1.92	0.51
1:p:133:LEU:HD12	1:p:471:CYS:SG	2.51	0.51
1:q:133:LEU:HD12	1:q:471:CYS:SG	2.51	0.51
1:r:331:ASN:OD1	1:r:332:THR:N	2.43	0.51
1:t:133:LEU:HD12	1:t:471:CYS:SG	2.51	0.51
1:u:495:ARG:O	1:u:496:ARG:NH1	2.42	0.51
1:y:133:LEU:HD12	1:y:471:CYS:SG	2.51	0.51
1:1:388:LYS:HG3	1:2:306:ALA:HB2	1.93	0.51
1:3:423:LYS:HE2	1:3:432:MET:HG3	1.92	0.51
1:A:313:SER:O	1:I:291:TYR:OH	2.16	0.51
1:B:388:LYS:HG3	1:J:306:ALA:HB2	1.93	0.51
1:D:133:LEU:HD12	1:D:471:CYS:SG	2.51	0.51
1:F:133:LEU:HD12	1:F:471:CYS:SG	2.51	0.51
1:O:306:ALA:HB2	1:n:388:LYS:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:423:LYS:HE2	1:R:432:MET:HG3	1.92	0.51
1:X:133:LEU:HD12	1:X:471:CYS:SG	2.51	0.51
1:Z:133:LEU:HD12	1:Z:471:CYS:SG	2.51	0.51
1:d:331:ASN:OD1	1:d:332:THR:N	2.43	0.51
1:d:388:LYS:HG3	1:l:306:ALA:HB2	1.93	0.51
1:e:57:LYS:HG2	1:e:478:GLU:HG3	1.92	0.51
1:g:57:LYS:HG2	1:g:478:GLU:HG3	1.92	0.51
1:k:133:LEU:HD12	1:k:471:CYS:SG	2.51	0.51
1:o:133:LEU:HD12	1:o:471:CYS:SG	2.51	0.51
1:q:423:LYS:HE2	1:q:432:MET:HG3	1.92	0.51
1:2:57:LYS:HG2	1:2:478:GLU:HG3	1.92	0.51
1:4:123:PRO:O	1:4:245:PHE:HB2	2.09	0.51
1:8:423:LYS:HE2	1:8:432:MET:HG3	1.92	0.51
1:8:495:ARG:O	1:8:496:ARG:NH1	2.42	0.51
1:C:421:CYS:N	1:C:439:ILE:O	2.42	0.51
1:C:423:LYS:HE2	1:C:432:MET:HG3	1.92	0.51
1:E:119:LYS:HD3	1:E:484:GLU:OE1	2.11	0.51
1:H:388:LYS:HG3	1:W:306:ALA:HB2	1.93	0.51
1:J:57:LYS:HG2	1:J:478:GLU:HG3	1.92	0.51
1:O:388:LYS:HG3	1:m:306:ALA:HB2	1.92	0.51
1:P:119:LYS:HD3	1:P:484:GLU:OE1	2.11	0.51
1:X:423:LYS:HE2	1:X:432:MET:HG3	1.92	0.51
1:Z:119:LYS:HD3	1:Z:484:GLU:OE1	2.11	0.51
1:Z:495:ARG:O	1:Z:496:ARG:NH1	2.42	0.51
1:a:119:LYS:HD3	1:a:484:GLU:OE1	2.11	0.51
1:c:57:LYS:HG2	1:c:478:GLU:HG3	1.92	0.51
1:d:423:LYS:HE2	1:d:432:MET:HG3	1.92	0.51
1:j:119:LYS:HD3	1:j:484:GLU:OE1	2.11	0.51
1:o:423:LYS:HE2	1:o:432:MET:HG3	1.92	0.51
1:w:119:LYS:HD3	1:w:484:GLU:OE1	2.11	0.51
1:x:423:LYS:HE2	1:x:432:MET:HG3	1.92	0.51
1:2:119:LYS:HD3	1:2:484:GLU:OE1	2.11	0.51
1:7:423:LYS:HE2	1:7:432:MET:HG3	1.92	0.51
1:G:57:LYS:HG2	1:G:478:GLU:HG3	1.92	0.50
1:J:119:LYS:HD3	1:J:484:GLU:OE1	2.11	0.50
1:L:133:LEU:HD12	1:L:471:CYS:SG	2.51	0.50
1:M:133:LEU:HD12	1:M:471:CYS:SG	2.51	0.50
1:Q:119:LYS:HD3	1:Q:484:GLU:OE1	2.12	0.50
1:T:133:LEU:HD12	1:T:471:CYS:SG	2.51	0.50
1:T:306:ALA:HB2	1:l:388:LYS:HG3	1.92	0.50
1:b:119:LYS:HD3	1:b:484:GLU:OE1	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:421:CYS:N	1:g:439:ILE:O	2.42	0.50
1:m:133:LEU:HD12	1:m:471:CYS:SG	2.51	0.50
1:m:388:LYS:HG3	1:n:306:ALA:HB2	1.93	0.50
1:m:495:ARG:O	1:m:496:ARG:NH1	2.42	0.50
1:t:57:LYS:HG2	1:t:478:GLU:HG3	1.92	0.50
1:x:119:LYS:HD3	1:x:484:GLU:OE1	2.12	0.50
1:2:133:LEU:HD12	1:2:471:CYS:SG	2.51	0.50
1:3:119:LYS:HD3	1:3:484:GLU:OE1	2.11	0.50
1:8:119:LYS:HD3	1:8:484:GLU:OE1	2.11	0.50
1:B:119:LYS:HD3	1:B:484:GLU:OE1	2.11	0.50
1:H:306:ALA:HB2	1:Y:388:LYS:HG3	1.93	0.50
1:H:421:CYS:N	1:H:439:ILE:O	2.42	0.50
1:I:119:LYS:HD3	1:I:484:GLU:OE1	2.12	0.50
1:J:133:LEU:HD12	1:J:471:CYS:SG	2.51	0.50
1:Q:133:LEU:HD12	1:Q:471:CYS:SG	2.51	0.50
1:R:119:LYS:HD3	1:R:484:GLU:OE1	2.11	0.50
1:T:388:LYS:HG3	1:d:306:ALA:HB2	1.93	0.50
1:W:119:LYS:HD3	1:W:484:GLU:OE1	2.11	0.50
1:Y:495:ARG:O	1:Y:496:ARG:NH1	2.42	0.50
1:f:119:LYS:HD3	1:f:484:GLU:OE1	2.11	0.50
1:i:119:LYS:HD3	1:i:484:GLU:OE1	2.11	0.50
1:l:119:LYS:HD3	1:l:484:GLU:OE1	2.11	0.50
1:n:119:LYS:HD3	1:n:484:GLU:OE1	2.11	0.50
1:u:119:LYS:HD3	1:u:484:GLU:OE1	2.11	0.50
1:u:291:TYR:OH	1:v:313:SER:O	2.16	0.50
1:z:119:LYS:HD3	1:z:484:GLU:OE1	2.11	0.50
1:z:133:LEU:HD12	1:z:471:CYS:SG	2.51	0.50
1:1:119:LYS:HD3	1:1:484:GLU:OE1	2.12	0.50
1:1:133:LEU:HD12	1:1:471:CYS:SG	2.51	0.50
1:B:133:LEU:HD12	1:B:471:CYS:SG	2.51	0.50
1:E:495:ARG:O	1:E:496:ARG:NH1	2.42	0.50
1:M:119:LYS:HD3	1:M:484:GLU:OE1	2.11	0.50
1:N:119:LYS:HD3	1:N:484:GLU:OE1	2.12	0.50
1:O:119:LYS:HD3	1:O:484:GLU:OE1	2.11	0.50
1:Q:423:LYS:HE2	1:Q:432:MET:HG3	1.92	0.50
1:T:495:ARG:O	1:T:496:ARG:NH1	2.42	0.50
1:U:133:LEU:HD12	1:U:471:CYS:SG	2.51	0.50
1:Y:421:CYS:N	1:Y:439:ILE:O	2.42	0.50
1:Y:423:LYS:HE2	1:Y:432:MET:HG3	1.92	0.50
1:d:119:LYS:HD3	1:d:484:GLU:OE1	2.11	0.50
1:g:119:LYS:HD3	1:g:484:GLU:OE1	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:119:LYS:HD3	1:h:484:GLU:OE1	2.11	0.50
1:h:133:LEU:HD12	1:h:471:CYS:SG	2.51	0.50
1:n:57:LYS:HG2	1:n:478:GLU:HG3	1.92	0.50
1:o:119:LYS:HD3	1:o:484:GLU:OE1	2.11	0.50
1:q:119:LYS:HD3	1:q:484:GLU:OE1	2.12	0.50
1:s:133:LEU:HD12	1:s:471:CYS:SG	2.51	0.50
1:x:133:LEU:HD12	1:x:471:CYS:SG	2.51	0.50
1:6:119:LYS:HD3	1:6:484:GLU:OE1	2.11	0.50
1:6:388:LYS:HG3	1:7:306:ALA:HB2	1.92	0.50
1:C:119:LYS:HD3	1:C:484:GLU:OE1	2.12	0.50
1:G:495:ARG:O	1:G:496:ARG:NH1	2.42	0.50
1:K:306:ALA:HB2	1:8:388:LYS:HG3	1.92	0.50
1:L:119:LYS:HD3	1:L:484:GLU:OE1	2.11	0.50
1:V:388:LYS:HG3	1:e:306:ALA:HB2	1.92	0.50
1:X:119:LYS:HD3	1:X:484:GLU:OE1	2.11	0.50
1:Y:119:LYS:HD3	1:Y:484:GLU:OE1	2.11	0.50
1:c:133:LEU:HD12	1:c:471:CYS:SG	2.51	0.50
1:d:57:LYS:HG2	1:d:478:GLU:HG3	1.92	0.50
1:j:133:LEU:HD12	1:j:471:CYS:SG	2.51	0.50
1:t:119:LYS:HD3	1:t:484:GLU:OE1	2.11	0.50
1:t:495:ARG:O	1:t:496:ARG:NH1	2.42	0.50
1:5:421:CYS:N	1:5:439:ILE:O	2.42	0.50
1:7:495:ARG:O	1:7:496:ARG:NH1	2.42	0.50
1:B:94:TRP:CE2	1:B:451:LYS:HD3	2.47	0.50
1:E:172:TRP:HE1	1:E:436:ASP:HB2	1.77	0.50
1:E:388:LYS:HG3	1:Q:306:ALA:HB2	1.92	0.50
1:G:119:LYS:HD3	1:G:484:GLU:OE1	2.11	0.50
1:H:256:TYR:CD1	1:H:257:ILE:HG23	2.47	0.50
1:K:119:LYS:HD3	1:K:484:GLU:OE1	2.11	0.50
1:O:421:CYS:N	1:O:439:ILE:O	2.42	0.50
1:P:133:LEU:HD12	1:P:471:CYS:SG	2.51	0.50
1:T:94:TRP:CE2	1:T:451:LYS:HD3	2.47	0.50
1:W:388:LYS:HG3	1:Y:306:ALA:HB2	1.93	0.50
1:Z:388:LYS:HG3	1:4:306:ALA:HB2	1.92	0.50
1:a:256:TYR:CD1	1:a:257:ILE:HG23	2.47	0.50
1:b:172:TRP:HE1	1:b:436:ASP:HB2	1.77	0.50
1:c:306:ALA:HB2	1:p:388:LYS:HG3	1.93	0.50
1:m:94:TRP:CE2	1:m:451:LYS:HD3	2.47	0.50
1:r:94:TRP:CE2	1:r:451:LYS:HD3	2.47	0.50
1:w:172:TRP:HE1	1:w:436:ASP:HB2	1.77	0.50
1:1:94:TRP:CE2	1:1:451:LYS:HD3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:495:ARG:O	1:1:496:ARG:NH1	2.42	0.50
1:5:94:TRP:CE2	1:5:451:LYS:HD3	2.47	0.50
1:7:119:LYS:HD3	1:7:484:GLU:OE1	2.12	0.50
1:H:94:TRP:CE2	1:H:451:LYS:HD3	2.47	0.50
1:H:423:LYS:HE2	1:H:432:MET:HG3	1.92	0.50
1:K:133:LEU:HD12	1:K:471:CYS:SG	2.51	0.50
1:K:421:CYS:N	1:K:439:ILE:O	2.42	0.50
1:S:94:TRP:CE2	1:S:451:LYS:HD3	2.47	0.50
1:S:119:LYS:HD3	1:S:484:GLU:OE1	2.11	0.50
1:T:172:TRP:HE1	1:T:436:ASP:HB2	1.77	0.50
1:Z:421:CYS:N	1:Z:439:ILE:O	2.42	0.50
1:f:172:TRP:HE1	1:f:436:ASP:HB2	1.77	0.50
1:q:94:TRP:CE2	1:q:451:LYS:HD3	2.47	0.50
1:r:119:LYS:HD3	1:r:484:GLU:OE1	2.11	0.50
1:r:133:LEU:HD12	1:r:471:CYS:SG	2.51	0.50
1:t:306:ALA:HB2	1:v:388:LYS:HG3	1.93	0.50
1:w:388:LYS:HG3	1:x:306:ALA:HB2	1.92	0.50
1:3:256:TYR:CD1	1:3:257:ILE:HG23	2.47	0.50
1:4:94:TRP:CE2	1:4:451:LYS:HD3	2.47	0.50
1:4:133:LEU:HD12	1:4:471:CYS:SG	2.51	0.50
1:5:256:TYR:CD1	1:5:257:ILE:HG23	2.47	0.50
1:A:94:TRP:CE2	1:A:451:LYS:HD3	2.47	0.50
1:B:495:ARG:O	1:B:496:ARG:NH1	2.42	0.50
1:C:256:TYR:CD1	1:C:257:ILE:HG23	2.47	0.50
1:D:119:LYS:HD3	1:D:484:GLU:OE1	2.11	0.50
1:H:172:TRP:HE1	1:H:436:ASP:HB2	1.77	0.50
1:K:94:TRP:CE2	1:K:451:LYS:HD3	2.47	0.50
1:P:256:TYR:CD1	1:P:257:ILE:HG23	2.47	0.50
1:R:94:TRP:CE2	1:R:451:LYS:HD3	2.47	0.50
1:S:133:LEU:HD12	1:S:471:CYS:SG	2.51	0.50
1:U:495:ARG:O	1:U:496:ARG:NH1	2.42	0.50
1:X:256:TYR:CD1	1:X:257:ILE:HG23	2.47	0.50
1:c:256:TYR:CD1	1:c:257:ILE:HG23	2.47	0.50
1:d:172:TRP:HE1	1:d:436:ASP:HB2	1.77	0.50
1:e:172:TRP:HE1	1:e:436:ASP:HB2	1.77	0.50
1:k:119:LYS:HD3	1:k:484:GLU:OE1	2.11	0.50
1:k:421:CYS:N	1:k:439:ILE:O	2.42	0.50
1:l:421:CYS:N	1:l:439:ILE:O	2.42	0.50
1:m:172:TRP:HE1	1:m:436:ASP:HB2	1.77	0.50
1:n:172:TRP:HE1	1:n:436:ASP:HB2	1.77	0.50
1:o:256:TYR:CD1	1:o:257:ILE:HG23	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:421:CYS:N	1:o:439:ILE:O	2.42	0.50
1:q:253:GLU:HB2	1:q:540:LYS:HB3	1.94	0.50
1:t:256:TYR:CD1	1:t:257:ILE:HG23	2.47	0.50
1:w:133:LEU:HD12	1:w:471:CYS:SG	2.51	0.50
1:w:495:ARG:O	1:w:496:ARG:NH1	2.42	0.50
1:x:253:GLU:HB2	1:x:540:LYS:HB3	1.94	0.50
1:x:256:TYR:CD1	1:x:257:ILE:HG23	2.47	0.50
1:y:256:TYR:CD1	1:y:257:ILE:HG23	2.47	0.50
1:4:119:LYS:HD3	1:4:484:GLU:OE1	2.11	0.50
1:4:421:CYS:N	1:4:439:ILE:O	2.42	0.50
1:5:172:TRP:HE1	1:5:436:ASP:HB2	1.77	0.50
1:5:423:LYS:HE2	1:5:432:MET:HG3	1.92	0.50
1:B:256:TYR:CD1	1:B:257:ILE:HG23	2.47	0.50
1:C:172:TRP:HE1	1:C:436:ASP:HB2	1.77	0.50
1:E:133:LEU:HD12	1:E:471:CYS:SG	2.51	0.50
1:F:119:LYS:HD3	1:F:484:GLU:OE1	2.11	0.50
1:F:256:TYR:CD1	1:F:257:ILE:HG23	2.47	0.50
1:G:256:TYR:CD1	1:G:257:ILE:HG23	2.47	0.50
1:J:256:TYR:CD1	1:J:257:ILE:HG23	2.47	0.50
1:J:388:LYS:HG3	1:L:306:ALA:HB2	1.92	0.50
1:L:172:TRP:HE1	1:L:436:ASP:HB2	1.77	0.50
1:M:94:TRP:CE2	1:M:451:LYS:HD3	2.47	0.50
1:Q:253:GLU:HB2	1:Q:540:LYS:HB3	1.94	0.50
1:Q:256:TYR:CD1	1:Q:257:ILE:HG23	2.47	0.50
1:R:253:GLU:HB2	1:R:540:LYS:HB3	1.94	0.50
1:X:306:ALA:HB2	1:e:388:LYS:HG3	1.93	0.50
1:Z:57:LYS:HG2	1:Z:478:GLU:HG3	1.92	0.50
1:b:495:ARG:O	1:b:496:ARG:NH1	2.42	0.50
1:c:172:TRP:HE1	1:c:436:ASP:HB2	1.77	0.50
1:c:388:LYS:HG3	1:o:306:ALA:HB2	1.93	0.50
1:e:133:LEU:HD12	1:e:471:CYS:SG	2.51	0.50
1:e:253:GLU:HB2	1:e:540:LYS:HB3	1.94	0.50
1:e:256:TYR:CD1	1:e:257:ILE:HG23	2.47	0.50
1:f:253:GLU:HB2	1:f:540:LYS:HB3	1.94	0.50
1:g:172:TRP:HE1	1:g:436:ASP:HB2	1.77	0.50
1:g:256:TYR:CD1	1:g:257:ILE:HG23	2.47	0.50
1:j:256:TYR:CD1	1:j:257:ILE:HG23	2.47	0.50
1:v:94:TRP:CE2	1:v:451:LYS:HD3	2.47	0.50
1:y:423:LYS:HE2	1:y:432:MET:HG3	1.92	0.50
1:z:306:ALA:HB2	1:2:388:LYS:HG3	1.92	0.50
1:1:256:TYR:CD1	1:1:257:ILE:HG23	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:133:LEU:HD12	1:5:471:CYS:SG	2.51	0.50
1:8:57:LYS:HG2	1:8:478:GLU:HG3	1.92	0.50
1:8:421:CYS:N	1:8:439:ILE:O	2.42	0.50
1:A:256:TYR:CD1	1:A:257:ILE:HG23	2.47	0.50
1:A:388:LYS:HG3	1:G:306:ALA:HB2	1.93	0.50
1:D:421:CYS:N	1:D:439:ILE:O	2.42	0.50
1:E:300:GLY:O	1:E:400:ILE:HD11	2.12	0.50
1:F:423:LYS:HE2	1:F:432:MET:HG3	1.92	0.50
1:H:133:LEU:HD12	1:H:471:CYS:SG	2.51	0.50
1:H:360:TYR:CE2	1:Y:272:VAL:HG22	2.46	0.50
1:I:133:LEU:HD12	1:I:471:CYS:SG	2.51	0.50
1:K:256:TYR:CD1	1:K:257:ILE:HG23	2.47	0.50
1:L:256:TYR:CD1	1:L:257:ILE:HG23	2.47	0.50
1:M:256:TYR:CD1	1:M:257:ILE:HG23	2.47	0.50
1:M:300:GLY:O	1:M:400:ILE:HD11	2.12	0.50
1:N:388:LYS:HG3	1:P:306:ALA:HB2	1.92	0.50
1:R:172:TRP:HE1	1:R:436:ASP:HB2	1.77	0.50
1:W:275:ILE:HD11	1:Y:316:THR:HG21	1.94	0.50
1:X:421:CYS:N	1:X:439:ILE:O	2.42	0.50
1:Y:133:LEU:HD12	1:Y:471:CYS:SG	2.51	0.50
1:Y:253:GLU:HB2	1:Y:540:LYS:HB3	1.94	0.50
1:Z:253:GLU:HB2	1:Z:540:LYS:HB3	1.94	0.50
1:b:253:GLU:HB2	1:b:540:LYS:HB3	1.94	0.50
1:c:253:GLU:HB2	1:c:540:LYS:HB3	1.94	0.50
1:d:94:TRP:CE2	1:d:451:LYS:HD3	2.47	0.50
1:h:94:TRP:CE2	1:h:451:LYS:HD3	2.47	0.50
1:h:256:TYR:CD1	1:h:257:ILE:HG23	2.47	0.50
1:h:300:GLY:O	1:h:400:ILE:HD11	2.12	0.50
1:n:94:TRP:CE2	1:n:451:LYS:HD3	2.47	0.50
1:u:133:LEU:HD12	1:u:471:CYS:SG	2.51	0.50
1:v:256:TYR:CD1	1:v:257:ILE:HG23	2.47	0.50
1:y:119:LYS:HD3	1:y:484:GLU:OE1	2.11	0.50
1:z:172:TRP:HE1	1:z:436:ASP:HB2	1.77	0.50
1:z:256:TYR:CD1	1:z:257:ILE:HG23	2.47	0.50
1:2:256:TYR:CD1	1:2:257:ILE:HG23	2.47	0.50
1:4:256:TYR:CD1	1:4:257:ILE:HG23	2.47	0.50
1:5:300:GLY:O	1:5:400:ILE:HD11	2.12	0.50
1:7:253:GLU:HB2	1:7:540:LYS:HB3	1.94	0.50
1:8:253:GLU:HB2	1:8:540:LYS:HB3	1.94	0.50
1:A:133:LEU:HD12	1:A:471:CYS:SG	2.51	0.49
1:A:300:GLY:O	1:A:400:ILE:HD11	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:300:GLY:O	1:C:400:ILE:HD11	2.12	0.49
1:D:94:TRP:CE2	1:D:451:LYS:HD3	2.47	0.49
1:D:256:TYR:CD1	1:D:257:ILE:HG23	2.47	0.49
1:G:253:GLU:HB2	1:G:540:LYS:HB3	1.94	0.49
1:H:253:GLU:HB2	1:H:540:LYS:HB3	1.94	0.49
1:H:300:GLY:O	1:H:400:ILE:HD11	2.12	0.49
1:J:495:ARG:O	1:J:496:ARG:NH1	2.42	0.49
1:Q:94:TRP:CE2	1:Q:451:LYS:HD3	2.47	0.49
1:U:253:GLU:HB2	1:U:540:LYS:HB3	1.94	0.49
1:V:253:GLU:HB2	1:V:540:LYS:HB3	1.94	0.49
1:Z:172:TRP:HE1	1:Z:436:ASP:HB2	1.77	0.49
1:a:94:TRP:CE2	1:a:451:LYS:HD3	2.47	0.49
1:b:57:LYS:HG2	1:b:478:GLU:HG3	1.92	0.49
1:c:94:TRP:CE2	1:c:451:LYS:HD3	2.47	0.49
1:e:94:TRP:CE2	1:e:451:LYS:HD3	2.47	0.49
1:f:495:ARG:O	1:f:496:ARG:NH1	2.42	0.49
1:g:133:LEU:HD12	1:g:471:CYS:SG	2.51	0.49
1:g:300:GLY:O	1:g:400:ILE:HD11	2.12	0.49
1:i:388:LYS:HG3	1:j:306:ALA:HB2	1.92	0.49
1:k:94:TRP:CE2	1:k:451:LYS:HD3	2.47	0.49
1:k:256:TYR:CD1	1:k:257:ILE:HG23	2.47	0.49
1:q:172:TRP:HE1	1:q:436:ASP:HB2	1.77	0.49
1:s:253:GLU:HB2	1:s:540:LYS:HB3	1.94	0.49
1:s:495:ARG:O	1:s:496:ARG:NH1	2.42	0.49
1:t:253:GLU:HB2	1:t:540:LYS:HB3	1.94	0.49
1:v:133:LEU:HD12	1:v:471:CYS:SG	2.51	0.49
1:v:300:GLY:O	1:v:400:ILE:HD11	2.12	0.49
1:w:94:TRP:CE2	1:w:451:LYS:HD3	2.47	0.49
1:w:300:GLY:O	1:w:400:ILE:HD11	2.12	0.49
1:5:253:GLU:HB2	1:5:540:LYS:HB3	1.94	0.49
1:5:535:LYS:NZ	1:6:427:ASP:OD2	2.32	0.49
1:7:133:LEU:HD12	1:7:471:CYS:SG	2.51	0.49
1:7:172:TRP:HE1	1:7:436:ASP:HB2	1.77	0.49
1:C:133:LEU:HD12	1:C:471:CYS:SG	2.51	0.49
1:D:253:GLU:HB2	1:D:540:LYS:HB3	1.94	0.49
1:E:94:TRP:CE2	1:E:451:LYS:HD3	2.47	0.49
1:E:421:CYS:N	1:E:439:ILE:O	2.42	0.49
1:G:94:TRP:CE2	1:G:451:LYS:HD3	2.47	0.49
1:I:94:TRP:CE2	1:I:451:LYS:HD3	2.47	0.49
1:I:253:GLU:HB2	1:I:540:LYS:HB3	1.94	0.49
1:N:94:TRP:CE2	1:N:451:LYS:HD3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:119:LYS:HD3	1:T:484:GLU:OE1	2.11	0.49
1:Y:172:TRP:HE1	1:Y:436:ASP:HB2	1.77	0.49
1:Z:300:GLY:O	1:Z:400:ILE:HD11	2.12	0.49
1:d:300:GLY:O	1:d:400:ILE:HD11	2.12	0.49
1:g:94:TRP:CE2	1:g:451:LYS:HD3	2.47	0.49
1:k:253:GLU:HB2	1:k:540:LYS:HB3	1.94	0.49
1:n:300:GLY:O	1:n:400:ILE:HD11	2.12	0.49
1:p:253:GLU:HB2	1:p:540:LYS:HB3	1.94	0.49
1:r:172:TRP:HE1	1:r:436:ASP:HB2	1.77	0.49
1:t:94:TRP:CE2	1:t:451:LYS:HD3	2.47	0.49
1:u:94:TRP:CE2	1:u:451:LYS:HD3	2.47	0.49
1:3:94:TRP:CE2	1:3:451:LYS:HD3	2.47	0.49
1:8:172:TRP:HE1	1:8:436:ASP:HB2	1.77	0.49
1:8:300:GLY:O	1:8:400:ILE:HD11	2.12	0.49
1:B:253:GLU:HB2	1:B:540:LYS:HB3	1.94	0.49
1:C:94:TRP:CE2	1:C:451:LYS:HD3	2.47	0.49
1:M:253:GLU:HB2	1:M:540:LYS:HB3	1.94	0.49
1:N:256:TYR:CD1	1:N:257:ILE:HG23	2.47	0.49
1:S:172:TRP:HE1	1:S:436:ASP:HB2	1.77	0.49
1:T:256:TYR:CD1	1:T:257:ILE:HG23	2.47	0.49
1:U:94:TRP:CE2	1:U:451:LYS:HD3	2.47	0.49
1:d:495:ARG:O	1:d:496:ARG:NH1	2.42	0.49
1:f:57:LYS:HG2	1:f:478:GLU:HG3	1.92	0.49
1:h:253:GLU:HB2	1:h:540:LYS:HB3	1.94	0.49
1:i:94:TRP:CE2	1:i:451:LYS:HD3	2.47	0.49
1:m:256:TYR:CD1	1:m:257:ILE:HG23	2.47	0.49
1:n:495:ARG:O	1:n:496:ARG:NH1	2.42	0.49
1:s:94:TRP:CE2	1:s:451:LYS:HD3	2.47	0.49
1:u:253:GLU:HB2	1:u:540:LYS:HB3	1.94	0.49
1:x:94:TRP:CE2	1:x:451:LYS:HD3	2.47	0.49
1:1:253:GLU:HB2	1:1:540:LYS:HB3	1.94	0.49
1:4:253:GLU:HB2	1:4:540:LYS:HB3	1.94	0.49
1:C:388:LYS:HG3	1:b:306:ALA:HB2	1.93	0.49
1:K:253:GLU:HB2	1:K:540:LYS:HB3	1.94	0.49
1:N:172:TRP:HE1	1:N:436:ASP:HB2	1.77	0.49
1:O:172:TRP:HE1	1:O:436:ASP:HB2	1.77	0.49
1:a:253:GLU:HB2	1:a:540:LYS:HB3	1.94	0.49
1:i:256:TYR:CD1	1:i:257:ILE:HG23	2.47	0.49
1:i:306:ALA:HB2	1:k:388:LYS:HG3	1.94	0.49
1:l:256:TYR:CD1	1:l:257:ILE:HG23	2.47	0.49
1:m:119:LYS:HD3	1:m:484:GLU:OE1	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:300:GLY:O	1:s:400:ILE:HD11	2.12	0.49
1:2:253:GLU:HB2	1:2:540:LYS:HB3	1.94	0.49
1:3:253:GLU:HB2	1:3:540:LYS:HB3	1.94	0.49
1:8:94:TRP:CE2	1:8:451:LYS:HD3	2.47	0.49
1:A:119:LYS:HD3	1:A:484:GLU:OE1	2.11	0.49
1:I:172:TRP:HE1	1:I:436:ASP:HB2	1.77	0.49
1:I:256:TYR:CD1	1:I:257:ILE:HG23	2.47	0.49
1:O:94:TRP:CE2	1:O:451:LYS:HD3	2.47	0.49
1:O:256:TYR:CD1	1:O:257:ILE:HG23	2.47	0.49
1:P:172:TRP:HE1	1:P:436:ASP:HB2	1.77	0.49
1:Q:377:SER:HB2	1:Q:536:THR:HG22	1.95	0.49
1:R:325:PRO:O	1:R:328:THR:HG22	2.13	0.49
1:T:300:GLY:O	1:T:400:ILE:HD11	2.12	0.49
1:U:119:LYS:HD3	1:U:484:GLU:OE1	2.11	0.49
1:V:256:TYR:CD1	1:V:257:ILE:HG23	2.47	0.49
1:X:172:TRP:HE1	1:X:436:ASP:HB2	1.77	0.49
1:Y:256:TYR:CD1	1:Y:257:ILE:HG23	2.47	0.49
1:a:377:SER:HB2	1:a:536:THR:HG22	1.95	0.49
1:b:94:TRP:CE2	1:b:451:LYS:HD3	2.47	0.49
1:c:119:LYS:HD3	1:c:484:GLU:OE1	2.11	0.49
1:d:325:PRO:O	1:d:328:THR:HG22	2.13	0.49
1:f:306:ALA:HB2	1:g:388:LYS:HG3	1.93	0.49
1:i:172:TRP:HE1	1:i:436:ASP:HB2	1.77	0.49
1:l:94:TRP:CE2	1:l:451:LYS:HD3	2.47	0.49
1:l:172:TRP:HE1	1:l:436:ASP:HB2	1.77	0.49
1:n:325:PRO:O	1:n:328:THR:HG22	2.13	0.49
1:o:253:GLU:HB2	1:o:540:LYS:HB3	1.94	0.49
1:o:325:PRO:O	1:o:328:THR:HG22	2.13	0.49
1:p:256:TYR:CD1	1:p:257:ILE:HG23	2.47	0.49
1:p:495:ARG:O	1:p:496:ARG:NH1	2.42	0.49
1:r:256:TYR:CD1	1:r:257:ILE:HG23	2.47	0.49
1:s:325:PRO:O	1:s:328:THR:HG22	2.13	0.49
1:t:300:GLY:O	1:t:400:ILE:HD11	2.12	0.49
1:x:377:SER:HB2	1:x:536:THR:HG22	1.95	0.49
1:y:94:TRP:CE2	1:y:451:LYS:HD3	2.47	0.49
1:2:300:GLY:O	1:2:400:ILE:HD11	2.12	0.49
1:2:495:ARG:O	1:2:496:ARG:NH1	2.42	0.49
1:5:119:LYS:HD3	1:5:484:GLU:OE1	2.12	0.49
1:6:253:GLU:HB2	1:6:540:LYS:HB3	1.94	0.49
1:D:388:LYS:HG3	1:N:306:ALA:HB2	1.94	0.49
1:F:94:TRP:CE2	1:F:451:LYS:HD3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:300:GLY:O	1:F:400:ILE:HD11	2.12	0.49
1:J:253:GLU:HB2	1:J:540:LYS:HB3	1.94	0.49
1:J:300:GLY:O	1:J:400:ILE:HD11	2.12	0.49
1:S:256:TYR:CD1	1:S:257:ILE:HG23	2.47	0.49
1:U:300:GLY:O	1:U:400:ILE:HD11	2.12	0.49
1:V:377:SER:HB2	1:V:536:THR:HG22	1.95	0.49
1:V:495:ARG:O	1:V:496:ARG:NH1	2.42	0.49
1:W:94:TRP:CE2	1:W:451:LYS:HD3	2.47	0.49
1:X:253:GLU:HB2	1:X:540:LYS:HB3	1.94	0.49
1:Z:94:TRP:CE2	1:Z:451:LYS:HD3	2.47	0.49
1:b:256:TYR:CD1	1:b:257:ILE:HG23	2.47	0.49
1:f:94:TRP:CE2	1:f:451:LYS:HD3	2.47	0.49
1:m:300:GLY:O	1:m:400:ILE:HD11	2.12	0.49
1:p:377:SER:HB2	1:p:536:THR:HG22	1.95	0.49
1:q:325:PRO:O	1:q:328:THR:HG22	2.13	0.49
1:s:119:LYS:HD3	1:s:484:GLU:OE1	2.11	0.49
1:s:172:TRP:HE1	1:s:436:ASP:HB2	1.77	0.49
1:u:172:TRP:HE1	1:u:436:ASP:HB2	1.77	0.49
1:y:300:GLY:O	1:y:400:ILE:HD11	2.12	0.49
1:3:377:SER:HB2	1:3:536:THR:HG22	1.95	0.49
1:6:94:TRP:CE2	1:6:451:LYS:HD3	2.47	0.49
1:A:253:GLU:HB2	1:A:540:LYS:HB3	1.94	0.49
1:A:325:PRO:O	1:A:328:THR:HG22	2.13	0.49
1:D:377:SER:HB2	1:D:536:THR:HG22	1.95	0.49
1:G:300:GLY:O	1:G:400:ILE:HD11	2.12	0.49
1:I:325:PRO:O	1:I:328:THR:HG22	2.13	0.49
1:K:325:PRO:O	1:K:328:THR:HG22	2.13	0.49
1:P:325:PRO:O	1:P:328:THR:HG22	2.13	0.49
1:P:377:SER:HB2	1:P:536:THR:HG22	1.95	0.49
1:U:256:TYR:CD1	1:U:257:ILE:HG23	2.47	0.49
1:U:325:PRO:O	1:U:328:THR:HG22	2.13	0.49
1:W:172:TRP:HE1	1:W:436:ASP:HB2	1.77	0.49
1:W:253:GLU:HB2	1:W:540:LYS:HB3	1.94	0.49
1:W:256:TYR:CD1	1:W:257:ILE:HG23	2.47	0.49
1:X:325:PRO:O	1:X:328:THR:HG22	2.13	0.49
1:e:119:LYS:HD3	1:e:484:GLU:OE1	2.11	0.49
1:e:495:ARG:O	1:e:496:ARG:NH1	2.42	0.49
1:f:256:TYR:CD1	1:f:257:ILE:HG23	2.47	0.49
1:j:94:TRP:CE2	1:j:451:LYS:HD3	2.47	0.49
1:j:325:PRO:O	1:j:328:THR:HG22	2.13	0.49
1:j:377:SER:HB2	1:j:536:THR:HG22	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:172:TRP:HE1	1:k:436:ASP:HB2	1.77	0.49
1:k:377:SER:HB2	1:k:536:THR:HG22	1.95	0.49
1:o:172:TRP:HE1	1:o:436:ASP:HB2	1.77	0.49
1:q:377:SER:HB2	1:q:536:THR:HG22	1.95	0.49
1:s:256:TYR:CD1	1:s:257:ILE:HG23	2.47	0.49
1:u:256:TYR:CD1	1:u:257:ILE:HG23	2.47	0.49
1:u:325:PRO:O	1:u:328:THR:HG22	2.13	0.49
1:v:119:LYS:HD3	1:v:484:GLU:OE1	2.11	0.49
1:v:253:GLU:HB2	1:v:540:LYS:HB3	1.94	0.49
1:v:325:PRO:O	1:v:328:THR:HG22	2.13	0.49
1:w:421:CYS:N	1:w:439:ILE:O	2.42	0.49
1:x:172:TRP:HE1	1:x:436:ASP:HB2	1.77	0.49
1:1:377:SER:HB2	1:1:536:THR:HG22	1.95	0.49
1:2:94:TRP:CE2	1:2:451:LYS:HD3	2.47	0.49
1:6:256:TYR:CD1	1:6:257:ILE:HG23	2.47	0.49
1:6:300:GLY:O	1:6:400:ILE:HD11	2.12	0.49
1:7:256:TYR:CD1	1:7:257:ILE:HG23	2.47	0.49
1:8:256:TYR:CD1	1:8:257:ILE:HG23	2.47	0.49
1:A:172:TRP:HE1	1:A:436:ASP:HB2	1.77	0.49
1:D:150:ASP:OD1	1:D:151:LEU:N	2.46	0.49
1:D:325:PRO:O	1:D:328:THR:HG22	2.13	0.49
1:F:150:ASP:OD1	1:F:151:LEU:N	2.46	0.49
1:F:253:GLU:HB2	1:F:540:LYS:HB3	1.94	0.49
1:H:119:LYS:HD3	1:H:484:GLU:OE1	2.12	0.49
1:J:94:TRP:CE2	1:J:451:LYS:HD3	2.47	0.49
1:P:94:TRP:CE2	1:P:451:LYS:HD3	2.47	0.49
1:R:377:SER:HB2	1:R:536:THR:HG22	1.95	0.49
1:S:535:LYS:NZ	1:U:427:ASP:OD2	2.32	0.49
1:U:172:TRP:HE1	1:U:436:ASP:HB2	1.77	0.49
1:V:94:TRP:CE2	1:V:451:LYS:HD3	2.47	0.49
1:V:119:LYS:HD3	1:V:484:GLU:OE1	2.11	0.49
1:W:300:GLY:O	1:W:400:ILE:HD11	2.12	0.49
1:Y:325:PRO:O	1:Y:328:THR:HG22	2.13	0.49
1:Z:256:TYR:CD1	1:Z:257:ILE:HG23	2.47	0.49
1:b:150:ASP:OD1	1:b:151:LEU:N	2.46	0.49
1:f:300:GLY:O	1:f:400:ILE:HD11	2.12	0.49
1:g:253:GLU:HB2	1:g:540:LYS:HB3	1.94	0.49
1:k:325:PRO:O	1:k:328:THR:HG22	2.13	0.49
1:v:150:ASP:OD1	1:v:151:LEU:N	2.46	0.49
1:y:150:ASP:OD1	1:y:151:LEU:N	2.46	0.49
1:z:253:GLU:HB2	1:z:540:LYS:HB3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:325:PRO:O	1:4:328:THR:HG22	2.13	0.49
1:A:150:ASP:OD1	1:A:151:LEU:N	2.46	0.49
1:B:377:SER:HB2	1:B:536:THR:HG22	1.95	0.49
1:C:253:GLU:HB2	1:C:540:LYS:HB3	1.94	0.49
1:D:172:TRP:HE1	1:D:436:ASP:HB2	1.77	0.49
1:E:325:PRO:O	1:E:328:THR:HG22	2.13	0.49
1:I:300:GLY:O	1:I:400:ILE:HD11	2.12	0.49
1:J:325:PRO:O	1:J:328:THR:HG22	2.13	0.49
1:L:253:GLU:HB2	1:L:540:LYS:HB3	1.94	0.49
1:L:300:GLY:O	1:L:400:ILE:HD11	2.12	0.49
1:N:325:PRO:O	1:N:328:THR:HG22	2.13	0.49
1:Q:172:TRP:HE1	1:Q:436:ASP:HB2	1.77	0.49
1:R:150:ASP:OD1	1:R:151:LEU:N	2.46	0.49
1:R:256:TYR:CD1	1:R:257:ILE:HG23	2.47	0.49
1:S:300:GLY:O	1:S:400:ILE:HD11	2.12	0.49
1:W:150:ASP:OD1	1:W:151:LEU:N	2.46	0.49
1:Z:325:PRO:O	1:Z:328:THR:HG22	2.13	0.49
1:b:300:GLY:O	1:b:400:ILE:HD11	2.12	0.49
1:d:150:ASP:OD1	1:d:151:LEU:N	2.46	0.49
1:d:253:GLU:HB2	1:d:540:LYS:HB3	1.94	0.49
1:f:150:ASP:OD1	1:f:151:LEU:N	2.46	0.49
1:i:325:PRO:O	1:i:328:THR:HG22	2.13	0.49
1:k:150:ASP:OD1	1:k:151:LEU:N	2.46	0.49
1:n:150:ASP:OD1	1:n:151:LEU:N	2.46	0.49
1:n:253:GLU:HB2	1:n:540:LYS:HB3	1.94	0.49
1:n:256:TYR:CD1	1:n:257:ILE:HG23	2.47	0.49
1:o:94:TRP:CE2	1:o:451:LYS:HD3	2.47	0.49
1:p:94:TRP:CE2	1:p:451:LYS:HD3	2.47	0.49
1:p:119:LYS:HD3	1:p:484:GLU:OE1	2.12	0.49
1:q:150:ASP:OD1	1:q:151:LEU:N	2.46	0.49
1:r:377:SER:HB2	1:r:536:THR:HG22	1.95	0.49
1:t:150:ASP:OD1	1:t:151:LEU:N	2.46	0.49
1:v:172:TRP:HE1	1:v:436:ASP:HB2	1.77	0.49
1:w:325:PRO:O	1:w:328:THR:HG22	2.13	0.49
1:w:377:SER:HB2	1:w:536:THR:HG22	1.95	0.49
1:y:172:TRP:HE1	1:y:436:ASP:HB2	1.77	0.49
1:z:94:TRP:CE2	1:z:451:LYS:HD3	2.47	0.49
1:z:300:GLY:O	1:z:400:ILE:HD11	2.12	0.49
1:2:325:PRO:O	1:2:328:THR:HG22	2.13	0.49
1:6:150:ASP:OD1	1:6:151:LEU:N	2.46	0.49
1:6:172:TRP:HE1	1:6:436:ASP:HB2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:325:PRO:O	1:7:328:THR:HG22	2.13	0.49
1:E:253:GLU:HB2	1:E:540:LYS:HB3	1.94	0.49
1:E:271:ARG:NE	1:E:294:PRO:HG2	2.28	0.49
1:E:377:SER:HB2	1:E:536:THR:HG22	1.95	0.49
1:F:172:TRP:HE1	1:F:436:ASP:HB2	1.77	0.49
1:L:94:TRP:CE2	1:L:451:LYS:HD3	2.47	0.49
1:M:325:PRO:O	1:M:328:THR:HG22	2.13	0.49
1:N:271:ARG:NE	1:N:294:PRO:HG2	2.28	0.49
1:N:300:GLY:O	1:N:400:ILE:HD11	2.12	0.49
1:P:253:GLU:HB2	1:P:540:LYS:HB3	1.94	0.49
1:Q:325:PRO:O	1:Q:328:THR:HG22	2.13	0.49
1:S:377:SER:HB2	1:S:536:THR:HG22	1.95	0.49
1:V:172:TRP:HE1	1:V:436:ASP:HB2	1.77	0.49
1:V:300:GLY:O	1:V:400:ILE:HD11	2.12	0.49
1:Y:94:TRP:CE2	1:Y:451:LYS:HD3	2.47	0.49
1:c:495:ARG:O	1:c:496:ARG:NH1	2.42	0.49
1:d:256:TYR:CD1	1:d:257:ILE:HG23	2.47	0.49
1:d:377:SER:HB2	1:d:536:THR:HG22	1.95	0.49
1:g:325:PRO:O	1:g:328:THR:HG22	2.13	0.49
1:h:325:PRO:O	1:h:328:THR:HG22	2.13	0.49
1:i:271:ARG:NE	1:i:294:PRO:HG2	2.28	0.49
1:j:172:TRP:HE1	1:j:436:ASP:HB2	1.77	0.49
1:l:377:SER:HB2	1:l:536:THR:HG22	1.95	0.49
1:p:150:ASP:OD1	1:p:151:LEU:N	2.46	0.49
1:p:172:TRP:HE1	1:p:436:ASP:HB2	1.77	0.49
1:u:300:GLY:O	1:u:400:ILE:HD11	2.12	0.49
1:w:271:ARG:NE	1:w:294:PRO:HG2	2.28	0.49
1:y:253:GLU:HB2	1:y:540:LYS:HB3	1.94	0.49
1:7:94:TRP:CE2	1:7:451:LYS:HD3	2.47	0.49
1:8:325:PRO:O	1:8:328:THR:HG22	2.13	0.49
1:A:377:SER:HB2	1:A:536:THR:HG22	1.95	0.48
1:E:256:TYR:CD1	1:E:257:ILE:HG23	2.47	0.48
1:F:271:ARG:NE	1:F:294:PRO:HG2	2.28	0.48
1:F:325:PRO:O	1:F:328:THR:HG22	2.13	0.48
1:G:377:SER:HB2	1:G:536:THR:HG22	1.95	0.48
1:O:377:SER:HB2	1:O:536:THR:HG22	1.95	0.48
1:P:150:ASP:OD1	1:P:151:LEU:N	2.46	0.48
1:S:271:ARG:NE	1:S:294:PRO:HG2	2.28	0.48
1:V:150:ASP:OD1	1:V:151:LEU:N	2.46	0.48
1:Z:377:SER:HB2	1:Z:536:THR:HG22	1.95	0.48
1:a:325:PRO:O	1:a:328:THR:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:330:ILE:HG21	1:f:337:PHE:CD2	2.48	0.48
1:i:300:GLY:O	1:i:400:ILE:HD11	2.12	0.48
1:j:253:GLU:HB2	1:j:540:LYS:HB3	1.94	0.48
1:j:300:GLY:O	1:j:400:ILE:HD11	2.12	0.48
1:l:300:GLY:O	1:l:400:ILE:HD11	2.12	0.48
1:n:377:SER:HB2	1:n:536:THR:HG22	1.95	0.48
1:o:271:ARG:NE	1:o:294:PRO:HG2	2.28	0.48
1:o:300:GLY:O	1:o:400:ILE:HD11	2.12	0.48
1:p:300:GLY:O	1:p:400:ILE:HD11	2.12	0.48
1:q:256:TYR:CD1	1:q:257:ILE:HG23	2.47	0.48
1:r:300:GLY:O	1:r:400:ILE:HD11	2.12	0.48
1:w:253:GLU:HB2	1:w:540:LYS:HB3	1.94	0.48
1:w:256:TYR:CD1	1:w:257:ILE:HG23	2.47	0.48
1:x:325:PRO:O	1:x:328:THR:HG22	2.13	0.48
1:8:377:SER:HB2	1:8:536:THR:HG22	1.95	0.48
1:B:300:GLY:O	1:B:400:ILE:HD11	2.12	0.48
1:B:325:PRO:O	1:B:328:THR:HG22	2.13	0.48
1:C:325:PRO:O	1:C:328:THR:HG22	2.13	0.48
1:D:300:GLY:O	1:D:400:ILE:HD11	2.12	0.48
1:G:150:ASP:OD1	1:G:151:LEU:N	2.46	0.48
1:G:172:TRP:HE1	1:G:436:ASP:HB2	1.77	0.48
1:I:271:ARG:NE	1:I:294:PRO:HG2	2.28	0.48
1:K:172:TRP:HE1	1:K:436:ASP:HB2	1.77	0.48
1:N:253:GLU:HB2	1:N:540:LYS:HB3	1.94	0.48
1:N:377:SER:HB2	1:N:536:THR:HG22	1.95	0.48
1:O:253:GLU:HB2	1:O:540:LYS:HB3	1.94	0.48
1:P:300:GLY:O	1:P:400:ILE:HD11	2.12	0.48
1:T:377:SER:HB2	1:T:536:THR:HG22	1.95	0.48
1:T:421:CYS:N	1:T:439:ILE:O	2.42	0.48
1:U:150:ASP:OD1	1:U:151:LEU:N	2.46	0.48
1:V:421:CYS:N	1:V:439:ILE:O	2.42	0.48
1:X:150:ASP:OD1	1:X:151:LEU:N	2.46	0.48
1:X:271:ARG:NE	1:X:294:PRO:HG2	2.28	0.48
1:Z:271:ARG:NE	1:Z:294:PRO:HG2	2.28	0.48
1:b:330:ILE:HG21	1:b:337:PHE:CD2	2.49	0.48
1:c:300:GLY:O	1:c:400:ILE:HD11	2.12	0.48
1:e:300:GLY:O	1:e:400:ILE:HD11	2.12	0.48
1:j:150:ASP:OD1	1:j:151:LEU:N	2.46	0.48
1:k:300:GLY:O	1:k:400:ILE:HD11	2.12	0.48
1:l:253:GLU:HB2	1:l:540:LYS:HB3	1.94	0.48
1:l:271:ARG:NE	1:l:294:PRO:HG2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:377:SER:HB2	1:m:536:THR:HG22	1.95	0.48
1:m:421:CYS:N	1:m:439:ILE:O	2.42	0.48
1:r:271:ARG:NE	1:r:294:PRO:HG2	2.28	0.48
1:s:150:ASP:OD1	1:s:151:LEU:N	2.46	0.48
1:t:377:SER:HB2	1:t:536:THR:HG22	1.95	0.48
1:v:271:ARG:NE	1:v:294:PRO:HG2	2.28	0.48
1:v:377:SER:HB2	1:v:536:THR:HG22	1.95	0.48
1:x:300:GLY:O	1:x:400:ILE:HD11	2.12	0.48
1:1:325:PRO:O	1:1:328:THR:HG22	2.13	0.48
1:3:271:ARG:NE	1:3:294:PRO:HG2	2.28	0.48
1:3:325:PRO:O	1:3:328:THR:HG22	2.13	0.48
1:3:330:ILE:HG21	1:3:337:PHE:CD2	2.49	0.48
1:4:172:TRP:HE1	1:4:436:ASP:HB2	1.77	0.48
1:5:330:ILE:HG21	1:5:337:PHE:CD2	2.49	0.48
1:A:271:ARG:NE	1:A:294:PRO:HG2	2.28	0.48
1:A:330:ILE:HG21	1:A:337:PHE:CD2	2.49	0.48
1:D:271:ARG:NE	1:D:294:PRO:HG2	2.28	0.48
1:F:377:SER:HB2	1:F:536:THR:HG22	1.95	0.48
1:H:271:ARG:NE	1:H:294:PRO:HG2	2.28	0.48
1:H:330:ILE:HG21	1:H:337:PHE:CD2	2.49	0.48
1:J:172:TRP:HE1	1:J:436:ASP:HB2	1.77	0.48
1:O:271:ARG:NE	1:O:294:PRO:HG2	2.28	0.48
1:O:300:GLY:O	1:O:400:ILE:HD11	2.12	0.48
1:Q:300:GLY:O	1:Q:400:ILE:HD11	2.12	0.48
1:T:330:ILE:HG21	1:T:337:PHE:CD2	2.48	0.48
1:V:316:THR:HG21	1:X:275:ILE:HD11	1.96	0.48
1:W:325:PRO:O	1:W:328:THR:HG22	2.13	0.48
1:X:94:TRP:CE2	1:X:451:LYS:HD3	2.47	0.48
1:X:300:GLY:O	1:X:400:ILE:HD11	2.12	0.48
1:Y:271:ARG:NE	1:Y:294:PRO:HG2	2.28	0.48
1:Y:330:ILE:HG21	1:Y:337:PHE:CD2	2.48	0.48
1:a:271:ARG:NE	1:a:294:PRO:HG2	2.28	0.48
1:a:330:ILE:HG21	1:a:337:PHE:CD2	2.49	0.48
1:a:495:ARG:O	1:a:496:ARG:NH1	2.42	0.48
1:i:253:GLU:HB2	1:i:540:LYS:HB3	1.94	0.48
1:i:377:SER:HB2	1:i:536:THR:HG22	1.95	0.48
1:m:330:ILE:HG21	1:m:337:PHE:CD2	2.48	0.48
1:o:150:ASP:OD1	1:o:151:LEU:N	2.46	0.48
1:o:275:ILE:HD11	1:p:316:THR:HG21	1.96	0.48
1:u:150:ASP:OD1	1:u:151:LEU:N	2.46	0.48
1:u:271:ARG:NE	1:u:294:PRO:HG2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:271:ARG:NE	1:y:294:PRO:HG2	2.28	0.48
1:1:73:LYS:O	1:1:90:VAL:HA	2.14	0.48
1:1:300:GLY:O	1:1:400:ILE:HD11	2.12	0.48
1:1:330:ILE:HG21	1:1:337:PHE:CD2	2.48	0.48
1:3:495:ARG:O	1:3:496:ARG:NH1	2.42	0.48
1:5:73:LYS:O	1:5:90:VAL:HA	2.14	0.48
1:5:325:PRO:O	1:5:328:THR:HG22	2.13	0.48
1:7:271:ARG:NE	1:7:294:PRO:HG2	2.28	0.48
1:A:73:LYS:O	1:A:90:VAL:HA	2.14	0.48
1:A:352:ASN:HD22	1:I:276:ARG:CZ	2.27	0.48
1:B:330:ILE:HG21	1:B:337:PHE:CD2	2.48	0.48
1:C:126:MET:HE3	1:C:477:CYS:SG	2.54	0.48
1:C:253:GLU:HG3	1:C:540:LYS:HD3	1.96	0.48
1:C:330:ILE:HG21	1:C:337:PHE:CD2	2.48	0.48
1:E:126:MET:HE3	1:E:477:CYS:SG	2.54	0.48
1:F:330:ILE:HG21	1:F:337:PHE:CD2	2.48	0.48
1:J:150:ASP:OD1	1:J:151:LEU:N	2.46	0.48
1:L:126:MET:HE3	1:L:477:CYS:SG	2.54	0.48
1:N:150:ASP:OD1	1:N:151:LEU:N	2.46	0.48
1:O:126:MET:HE3	1:O:477:CYS:SG	2.54	0.48
1:R:126:MET:HE3	1:R:477:CYS:SG	2.54	0.48
1:T:427:ASP:OD2	1:I:535:LYS:NZ	2.32	0.48
1:Y:150:ASP:OD1	1:Y:151:LEU:N	2.46	0.48
1:Y:300:GLY:O	1:Y:400:ILE:HD11	2.12	0.48
1:b:73:LYS:O	1:b:90:VAL:HA	2.14	0.48
1:c:330:ILE:HG21	1:c:337:PHE:CD2	2.48	0.48
1:e:330:ILE:HG21	1:e:337:PHE:CD2	2.48	0.48
1:f:73:LYS:O	1:f:90:VAL:HA	2.14	0.48
1:g:126:MET:HE3	1:g:477:CYS:SG	2.54	0.48
1:h:330:ILE:HG21	1:h:337:PHE:CD2	2.48	0.48
1:k:271:ARG:NE	1:k:294:PRO:HG2	2.28	0.48
1:l:126:MET:HE3	1:l:477:CYS:SG	2.54	0.48
1:o:73:LYS:O	1:o:90:VAL:HA	2.14	0.48
1:p:421:CYS:N	1:p:439:ILE:O	2.42	0.48
1:s:271:ARG:NE	1:s:294:PRO:HG2	2.28	0.48
1:u:73:LYS:O	1:u:90:VAL:HA	2.14	0.48
1:v:73:LYS:O	1:v:90:VAL:HA	2.14	0.48
1:v:330:ILE:HG21	1:v:337:PHE:CD2	2.49	0.48
1:w:126:MET:HE3	1:w:477:CYS:SG	2.54	0.48
1:w:253:GLU:HG3	1:w:540:LYS:HD3	1.96	0.48
1:y:325:PRO:O	1:y:328:THR:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:377:SER:HB2	1:y:536:THR:HG22	1.95	0.48
1:z:126:MET:HE3	1:z:477:CYS:SG	2.54	0.48
1:2:150:ASP:OD1	1:2:151:LEU:N	2.46	0.48
1:2:172:TRP:HE1	1:2:436:ASP:HB2	1.77	0.48
1:2:271:ARG:NE	1:2:294:PRO:HG2	2.28	0.48
1:5:271:ARG:NE	1:5:294:PRO:HG2	2.28	0.48
1:6:325:PRO:O	1:6:328:THR:HG22	2.13	0.48
1:8:271:ARG:NE	1:8:294:PRO:HG2	2.28	0.48
1:B:73:LYS:O	1:B:90:VAL:HA	2.14	0.48
1:B:172:TRP:HE1	1:B:436:ASP:HB2	1.77	0.48
1:C:271:ARG:NE	1:C:294:PRO:HG2	2.28	0.48
1:E:253:GLU:HG3	1:E:540:LYS:HD3	1.96	0.48
1:G:271:ARG:NE	1:G:294:PRO:HG2	2.28	0.48
1:G:325:PRO:O	1:G:328:THR:HG22	2.13	0.48
1:H:73:LYS:O	1:H:90:VAL:HA	2.14	0.48
1:H:126:MET:HE3	1:H:477:CYS:SG	2.54	0.48
1:H:325:PRO:O	1:H:328:THR:HG22	2.13	0.48
1:I:73:LYS:O	1:I:90:VAL:HA	2.14	0.48
1:I:150:ASP:OD1	1:I:151:LEU:N	2.46	0.48
1:J:271:ARG:NE	1:J:294:PRO:HG2	2.28	0.48
1:J:330:ILE:HG21	1:J:337:PHE:CD2	2.48	0.48
1:L:330:ILE:HG21	1:L:337:PHE:CD2	2.48	0.48
1:M:73:LYS:O	1:M:90:VAL:HA	2.14	0.48
1:M:330:ILE:HG21	1:M:337:PHE:CD2	2.48	0.48
1:P:330:ILE:HG21	1:P:337:PHE:CD2	2.49	0.48
1:R:300:GLY:O	1:R:400:ILE:HD11	2.12	0.48
1:U:271:ARG:NE	1:U:294:PRO:HG2	2.28	0.48
1:V:73:LYS:O	1:V:90:VAL:HA	2.14	0.48
1:W:271:ARG:NE	1:W:294:PRO:HG2	2.28	0.48
1:a:300:GLY:O	1:a:400:ILE:HD11	2.12	0.48
1:b:126:MET:HE3	1:b:477:CYS:SG	2.54	0.48
1:f:126:MET:HE3	1:f:477:CYS:SG	2.54	0.48
1:g:253:GLU:HG3	1:g:540:LYS:HD3	1.96	0.48
1:h:172:TRP:HE1	1:h:436:ASP:HB2	1.77	0.48
1:i:150:ASP:OD1	1:i:151:LEU:N	2.46	0.48
1:j:330:ILE:HG21	1:j:337:PHE:CD2	2.49	0.48
1:p:73:LYS:O	1:p:90:VAL:HA	2.14	0.48
1:q:126:MET:HE3	1:q:477:CYS:SG	2.54	0.48
1:q:300:GLY:O	1:q:400:ILE:HD11	2.12	0.48
1:t:172:TRP:HE1	1:t:436:ASP:HB2	1.77	0.48
1:t:325:PRO:O	1:t:328:THR:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:92:THR:OG1	1:v:190:TYR:O	2.32	0.48
1:x:271:ARG:NE	1:x:294:PRO:HG2	2.28	0.48
1:y:330:ILE:HG21	1:y:337:PHE:CD2	2.49	0.48
1:z:330:ILE:HG21	1:z:337:PHE:CD2	2.48	0.48
1:1:172:TRP:HE1	1:1:436:ASP:HB2	1.77	0.48
1:3:300:GLY:O	1:3:400:ILE:HD11	2.12	0.48
1:4:300:GLY:O	1:4:400:ILE:HD11	2.12	0.48
1:5:126:MET:HE3	1:5:477:CYS:SG	2.54	0.48
1:6:126:MET:HE3	1:6:477:CYS:SG	2.54	0.48
1:6:271:ARG:NE	1:6:294:PRO:HG2	2.28	0.48
1:7:150:ASP:OD1	1:7:151:LEU:N	2.46	0.48
1:7:330:ILE:HG21	1:7:337:PHE:CD2	2.49	0.48
1:F:126:MET:HE3	1:F:477:CYS:SG	2.54	0.48
1:F:253:GLU:HG3	1:F:540:LYS:HD3	1.96	0.48
1:G:330:ILE:HG21	1:G:337:PHE:CD2	2.49	0.48
1:I:330:ILE:HG21	1:I:337:PHE:CD2	2.48	0.48
1:K:253:GLU:HG3	1:K:540:LYS:HD3	1.96	0.48
1:K:271:ARG:NE	1:K:294:PRO:HG2	2.28	0.48
1:K:300:GLY:O	1:K:400:ILE:HD11	2.12	0.48
1:L:271:ARG:NE	1:L:294:PRO:HG2	2.28	0.48
1:L:325:PRO:O	1:L:328:THR:HG22	2.13	0.48
1:Q:73:LYS:O	1:Q:90:VAL:HA	2.14	0.48
1:Q:150:ASP:OD1	1:Q:151:LEU:N	2.46	0.48
1:Q:271:ARG:NE	1:Q:294:PRO:HG2	2.28	0.48
1:Q:330:ILE:HG21	1:Q:337:PHE:CD2	2.48	0.48
1:T:150:ASP:OD1	1:T:151:LEU:N	2.46	0.48
1:V:126:MET:HE3	1:V:477:CYS:SG	2.54	0.48
1:V:325:PRO:O	1:V:328:THR:HG22	2.13	0.48
1:W:126:MET:HE3	1:W:477:CYS:SG	2.54	0.48
1:W:377:SER:HB2	1:W:536:THR:HG22	1.95	0.48
1:X:73:LYS:O	1:X:90:VAL:HA	2.14	0.48
1:Z:126:MET:HE3	1:Z:477:CYS:SG	2.54	0.48
1:b:271:ARG:NE	1:b:294:PRO:HG2	2.28	0.48
1:g:73:LYS:O	1:g:90:VAL:HA	2.14	0.48
1:g:271:ARG:NE	1:g:294:PRO:HG2	2.28	0.48
1:g:330:ILE:HG21	1:g:337:PHE:CD2	2.49	0.48
1:h:73:LYS:O	1:h:90:VAL:HA	2.14	0.48
1:h:150:ASP:OD1	1:h:151:LEU:N	2.46	0.48
1:k:126:MET:HE3	1:k:477:CYS:SG	2.54	0.48
1:m:271:ARG:NE	1:m:294:PRO:HG2	2.28	0.48
1:n:253:GLU:HG3	1:n:540:LYS:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:535:LYS:NZ	1:p:427:ASP:OD2	2.32	0.48
1:p:126:MET:HE3	1:p:477:CYS:SG	2.54	0.48
1:p:325:PRO:O	1:p:328:THR:HG22	2.13	0.48
1:r:73:LYS:O	1:r:90:VAL:HA	2.14	0.48
1:t:73:LYS:O	1:t:90:VAL:HA	2.14	0.48
1:t:271:ARG:NE	1:t:294:PRO:HG2	2.28	0.48
1:t:330:ILE:HG21	1:t:337:PHE:CD2	2.48	0.48
1:u:126:MET:HE3	1:u:477:CYS:SG	2.54	0.48
1:x:73:LYS:O	1:x:90:VAL:HA	2.14	0.48
1:x:330:ILE:HG21	1:x:337:PHE:CD2	2.48	0.48
1:z:271:ARG:NE	1:z:294:PRO:HG2	2.28	0.48
1:z:325:PRO:O	1:z:328:THR:HG22	2.13	0.48
1:z:505:GLY:O	1:z:511:THR:OG1	2.32	0.48
1:4:150:ASP:OD1	1:4:151:LEU:N	2.46	0.48
1:6:377:SER:HB2	1:6:536:THR:HG22	1.95	0.48
1:7:253:GLU:HG3	1:7:540:LYS:HD3	1.96	0.48
1:B:253:GLU:HG3	1:B:540:LYS:HD3	1.96	0.48
1:C:73:LYS:O	1:C:90:VAL:HA	2.14	0.48
1:C:316:THR:HG21	1:M:275:ILE:HD11	1.96	0.48
1:C:377:SER:HB2	1:C:536:THR:HG22	1.95	0.48
1:F:352:ASN:HD22	1:Q:276:ARG:CZ	2.27	0.48
1:G:73:LYS:O	1:G:90:VAL:HA	2.14	0.48
1:H:112:GLN:NE2	1:H:497:HIS:O	2.47	0.48
1:J:377:SER:HB2	1:J:536:THR:HG22	1.95	0.48
1:L:505:GLY:O	1:L:511:THR:OG1	2.32	0.48
1:M:126:MET:HE3	1:M:477:CYS:SG	2.54	0.48
1:M:271:ARG:NE	1:M:294:PRO:HG2	2.28	0.48
1:O:325:PRO:O	1:O:328:THR:HG22	2.13	0.48
1:O:330:ILE:HG21	1:O:337:PHE:CD2	2.49	0.48
1:O:535:LYS:NZ	1:m:427:ASP:OD2	2.32	0.48
1:R:112:GLN:NE2	1:R:497:HIS:O	2.47	0.48
1:S:73:LYS:O	1:S:90:VAL:HA	2.14	0.48
1:S:253:GLU:HG3	1:S:540:LYS:HD3	1.96	0.48
1:T:271:ARG:NE	1:T:294:PRO:HG2	2.28	0.48
1:T:325:PRO:O	1:T:328:THR:HG22	2.13	0.48
1:Y:126:MET:HE3	1:Y:477:CYS:SG	2.54	0.48
1:b:112:GLN:NE2	1:b:497:HIS:O	2.47	0.48
1:c:377:SER:HB2	1:c:536:THR:HG22	1.95	0.48
1:d:253:GLU:HG3	1:d:540:LYS:HD3	1.96	0.48
1:e:377:SER:HB2	1:e:536:THR:HG22	1.95	0.48
1:f:253:GLU:HG3	1:f:540:LYS:HD3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:271:ARG:NE	1:f:294:PRO:HG2	2.28	0.48
1:f:325:PRO:O	1:f:328:THR:HG22	2.13	0.48
1:g:316:THR:HG21	1:h:275:ILE:HD11	1.96	0.48
1:h:271:ARG:NE	1:h:294:PRO:HG2	2.28	0.48
1:l:325:PRO:O	1:l:328:THR:HG22	2.13	0.48
1:l:330:ILE:HG21	1:l:337:PHE:CD2	2.49	0.48
1:m:126:MET:HE3	1:m:477:CYS:SG	2.54	0.48
1:m:150:ASP:OD1	1:m:151:LEU:N	2.46	0.48
1:m:253:GLU:HB2	1:m:540:LYS:HB3	1.94	0.48
1:m:325:PRO:O	1:m:328:THR:HG22	2.13	0.48
1:n:271:ARG:NE	1:n:294:PRO:HG2	2.28	0.48
1:r:150:ASP:OD1	1:r:151:LEU:N	2.46	0.48
1:u:276:ARG:CZ	1:v:352:ASN:HD22	2.27	0.48
1:u:330:ILE:HG21	1:u:337:PHE:CD2	2.48	0.48
1:x:126:MET:HE3	1:x:477:CYS:SG	2.54	0.48
1:x:150:ASP:OD1	1:x:151:LEU:N	2.46	0.48
1:x:276:ARG:CZ	1:y:352:ASN:HD22	2.27	0.48
1:y:126:MET:HE3	1:y:477:CYS:SG	2.54	0.48
1:y:253:GLU:HG3	1:y:540:LYS:HD3	1.96	0.48
1:z:73:LYS:O	1:z:90:VAL:HA	2.14	0.48
1:2:330:ILE:HG21	1:2:337:PHE:CD2	2.48	0.48
1:2:377:SER:HB2	1:2:536:THR:HG22	1.95	0.48
1:3:73:LYS:O	1:3:90:VAL:HA	2.14	0.48
1:4:253:GLU:HG3	1:4:540:LYS:HD3	1.96	0.48
1:5:112:GLN:NE2	1:5:497:HIS:O	2.47	0.48
1:5:275:ILE:HD11	1:6:316:THR:HG21	1.96	0.48
1:6:253:GLU:HG3	1:6:540:LYS:HD3	1.96	0.48
1:7:126:MET:HE3	1:7:477:CYS:SG	2.54	0.48
1:7:300:GLY:O	1:7:400:ILE:HD11	2.12	0.48
1:8:126:MET:HE3	1:8:477:CYS:SG	2.54	0.48
1:A:421:CYS:N	1:A:439:ILE:O	2.42	0.48
1:B:271:ARG:NE	1:B:294:PRO:HG2	2.28	0.48
1:D:126:MET:HE3	1:D:477:CYS:SG	2.54	0.48
1:E:104:CYS:SG	1:E:176:VAL:HG12	2.54	0.48
1:F:73:LYS:O	1:F:90:VAL:HA	2.14	0.48
1:F:112:GLN:NE2	1:F:497:HIS:O	2.47	0.48
1:I:126:MET:HE3	1:I:477:CYS:SG	2.54	0.48
1:K:150:ASP:OD1	1:K:151:LEU:N	2.46	0.48
1:K:330:ILE:HG21	1:K:337:PHE:CD2	2.48	0.48
1:K:377:SER:HB2	1:K:536:THR:HG22	1.95	0.48
1:L:73:LYS:O	1:L:90:VAL:HA	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:150:ASP:OD1	1:M:151:LEU:N	2.46	0.48
1:N:73:LYS:O	1:N:90:VAL:HA	2.14	0.48
1:P:104:CYS:SG	1:P:176:VAL:HG12	2.54	0.48
1:S:253:GLU:HB2	1:S:540:LYS:HB3	1.94	0.48
1:T:126:MET:HE3	1:T:477:CYS:SG	2.54	0.48
1:T:253:GLU:HB2	1:T:540:LYS:HB3	1.94	0.48
1:V:427:ASP:OD2	1:X:535:LYS:NZ	2.32	0.48
1:W:253:GLU:HG3	1:W:540:LYS:HD3	1.96	0.48
1:X:253:GLU:HG3	1:X:540:LYS:HD3	1.96	0.48
1:X:377:SER:HB2	1:X:536:THR:HG22	1.95	0.48
1:Y:253:GLU:HG3	1:Y:540:LYS:HD3	1.96	0.48
1:Z:74:THR:HG21	1:a:515:HIS:HE2	1.79	0.48
1:Z:104:CYS:SG	1:Z:176:VAL:HG12	2.54	0.48
1:a:73:LYS:O	1:a:90:VAL:HA	2.14	0.48
1:a:126:MET:HE3	1:a:477:CYS:SG	2.54	0.48
1:b:253:GLU:HG3	1:b:540:LYS:HD3	1.96	0.48
1:c:73:LYS:O	1:c:90:VAL:HA	2.14	0.48
1:c:126:MET:HE3	1:c:477:CYS:SG	2.54	0.48
1:d:271:ARG:NE	1:d:294:PRO:HG2	2.28	0.48
1:d:330:ILE:HG21	1:d:337:PHE:CD2	2.49	0.48
1:e:126:MET:HE3	1:e:477:CYS:SG	2.54	0.48
1:e:325:PRO:O	1:e:328:THR:HG22	2.13	0.48
1:f:112:GLN:NE2	1:f:497:HIS:O	2.47	0.48
1:g:377:SER:HB2	1:g:536:THR:HG22	1.95	0.48
1:h:126:MET:HE3	1:h:477:CYS:SG	2.54	0.48
1:j:104:CYS:SG	1:j:176:VAL:HG12	2.54	0.48
1:o:253:GLU:HG3	1:o:540:LYS:HD3	1.96	0.48
1:o:377:SER:HB2	1:o:536:THR:HG22	1.95	0.48
1:q:112:GLN:NE2	1:q:497:HIS:O	2.47	0.48
1:q:421:CYS:N	1:q:439:ILE:O	2.42	0.48
1:r:253:GLU:HB2	1:r:540:LYS:HB3	1.94	0.48
1:r:253:GLU:HG3	1:r:540:LYS:HD3	1.96	0.48
1:w:73:LYS:O	1:w:90:VAL:HA	2.14	0.48
1:y:73:LYS:O	1:y:90:VAL:HA	2.14	0.48
1:1:271:ARG:NE	1:1:294:PRO:HG2	2.28	0.48
1:3:126:MET:HE3	1:3:477:CYS:SG	2.54	0.48
1:4:271:ARG:NE	1:4:294:PRO:HG2	2.28	0.48
1:8:73:LYS:O	1:8:90:VAL:HA	2.14	0.48
1:A:253:GLU:HG3	1:A:540:LYS:HD3	1.96	0.48
1:C:104:CYS:SG	1:C:176:VAL:HG12	2.54	0.48
1:G:112:GLN:NE2	1:G:497:HIS:O	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:253:GLU:HG3	1:L:540:LYS:HD3	1.96	0.48
1:M:172:TRP:HE1	1:M:436:ASP:HB2	1.77	0.48
1:M:377:SER:HB2	1:M:536:THR:HG22	1.95	0.48
1:O:253:GLU:HG3	1:O:540:LYS:HD3	1.96	0.48
1:Q:126:MET:HE3	1:Q:477:CYS:SG	2.54	0.48
1:Q:253:GLU:HG3	1:Q:540:LYS:HD3	1.96	0.48
1:R:92:THR:OG1	1:R:190:TYR:O	2.32	0.48
1:V:112:GLN:NE2	1:V:497:HIS:O	2.47	0.48
1:V:271:ARG:NE	1:V:294:PRO:HG2	2.28	0.48
1:Y:377:SER:HB2	1:Y:536:THR:HG22	1.95	0.48
1:Z:73:LYS:O	1:Z:90:VAL:HA	2.14	0.48
1:b:325:PRO:O	1:b:328:THR:HG22	2.13	0.48
1:c:325:PRO:O	1:c:328:THR:HG22	2.13	0.48
1:d:112:GLN:NE2	1:d:497:HIS:O	2.47	0.48
1:e:73:LYS:O	1:e:90:VAL:HA	2.14	0.48
1:f:421:CYS:N	1:f:439:ILE:O	2.42	0.48
1:i:73:LYS:O	1:i:90:VAL:HA	2.14	0.48
1:k:104:CYS:SG	1:k:176:VAL:HG12	2.54	0.48
1:k:253:GLU:HG3	1:k:540:LYS:HD3	1.96	0.48
1:k:330:ILE:HG21	1:k:337:PHE:CD2	2.48	0.48
1:l:253:GLU:HG3	1:l:540:LYS:HD3	1.96	0.48
1:m:104:CYS:SG	1:m:176:VAL:HG12	2.54	0.48
1:n:330:ILE:HG21	1:n:337:PHE:CD2	2.49	0.48
1:p:112:GLN:NE2	1:p:497:HIS:O	2.47	0.48
1:q:92:THR:OG1	1:q:190:TYR:O	2.32	0.48
1:s:73:LYS:O	1:s:90:VAL:HA	2.14	0.48
1:s:330:ILE:HG21	1:s:337:PHE:CD2	2.48	0.48
1:v:421:CYS:N	1:v:439:ILE:O	2.42	0.48
1:w:104:CYS:SG	1:w:176:VAL:HG12	2.54	0.48
1:x:253:GLU:HG3	1:x:540:LYS:HD3	1.96	0.48
1:y:112:GLN:NE2	1:y:497:HIS:O	2.47	0.48
1:z:150:ASP:OD1	1:z:151:LEU:N	2.46	0.48
1:z:253:GLU:HG3	1:z:540:LYS:HD3	1.96	0.48
1:1:253:GLU:HG3	1:1:540:LYS:HD3	1.96	0.48
1:2:126:MET:HE3	1:2:477:CYS:SG	2.54	0.48
1:4:126:MET:HE3	1:4:477:CYS:SG	2.54	0.48
1:4:330:ILE:HG21	1:4:337:PHE:CD2	2.49	0.48
1:4:377:SER:HB2	1:4:536:THR:HG22	1.95	0.48
1:5:150:ASP:OD1	1:5:151:LEU:N	2.46	0.48
1:8:104:CYS:SG	1:8:176:VAL:HG12	2.54	0.48
1:D:104:CYS:SG	1:D:176:VAL:HG12	2.54	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:253:GLU:HG3	1:D:540:LYS:HD3	1.96	0.48
1:D:330:ILE:HG21	1:D:337:PHE:CD2	2.48	0.48
1:E:73:LYS:O	1:E:90:VAL:HA	2.14	0.48
1:H:150:ASP:OD1	1:H:151:LEU:N	2.46	0.48
1:L:104:CYS:SG	1:L:176:VAL:HG12	2.54	0.48
1:L:150:ASP:OD1	1:L:151:LEU:N	2.46	0.48
1:M:104:CYS:SG	1:M:176:VAL:HG12	2.54	0.48
1:M:421:CYS:N	1:M:439:ILE:O	2.42	0.48
1:N:330:ILE:HG21	1:N:337:PHE:CD2	2.49	0.48
1:O:104:CYS:SG	1:O:176:VAL:HG12	2.54	0.48
1:R:421:CYS:N	1:R:439:ILE:O	2.42	0.48
1:R:535:LYS:NZ	1:S:427:ASP:OD2	2.32	0.48
1:S:150:ASP:OD1	1:S:151:LEU:N	2.46	0.48
1:U:73:LYS:O	1:U:90:VAL:HA	2.14	0.48
1:U:112:GLN:NE2	1:U:497:HIS:O	2.47	0.48
1:U:421:CYS:N	1:U:439:ILE:O	2.42	0.48
1:V:104:CYS:SG	1:V:176:VAL:HG12	2.54	0.48
1:W:330:ILE:HG21	1:W:337:PHE:CD2	2.48	0.48
1:X:126:MET:HE3	1:X:477:CYS:SG	2.54	0.48
1:Z:150:ASP:OD1	1:Z:151:LEU:N	2.46	0.48
1:Z:330:ILE:HG21	1:Z:337:PHE:CD2	2.49	0.48
1:a:104:CYS:SG	1:a:176:VAL:HG12	2.54	0.48
1:b:377:SER:HB2	1:b:536:THR:HG22	1.95	0.48
1:g:104:CYS:SG	1:g:176:VAL:HG12	2.54	0.48
1:h:104:CYS:SG	1:h:176:VAL:HG12	2.54	0.48
1:j:73:LYS:O	1:j:90:VAL:HA	2.14	0.48
1:n:73:LYS:O	1:n:90:VAL:HA	2.14	0.48
1:n:112:GLN:NE2	1:n:497:HIS:O	2.47	0.48
1:s:104:CYS:SG	1:s:176:VAL:HG12	2.54	0.48
1:s:421:CYS:N	1:s:439:ILE:O	2.42	0.48
1:t:112:GLN:NE2	1:t:497:HIS:O	2.47	0.48
1:t:126:MET:HE3	1:t:477:CYS:SG	2.54	0.48
1:t:253:GLU:HG3	1:t:540:LYS:HD3	1.96	0.48
1:t:515:HIS:HE2	1:6:74:THR:HG21	1.79	0.48
1:v:126:MET:HE3	1:v:477:CYS:SG	2.54	0.48
1:v:253:GLU:HG3	1:v:540:LYS:HD3	1.96	0.48
1:z:377:SER:HB2	1:z:536:THR:HG22	1.95	0.48
1:3:104:CYS:SG	1:3:176:VAL:HG12	2.54	0.48
1:7:377:SER:HB2	1:7:536:THR:HG22	1.95	0.48
1:8:150:ASP:OD1	1:8:151:LEU:N	2.46	0.48
1:D:73:LYS:O	1:D:90:VAL:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:253:GLU:HG3	1:G:540:LYS:HD3	1.96	0.47
1:I:104:CYS:SG	1:I:176:VAL:HG12	2.54	0.47
1:J:126:MET:HE3	1:J:477:CYS:SG	2.54	0.47
1:K:126:MET:HE3	1:K:477:CYS:SG	2.54	0.47
1:K:352:ASN:HD22	1:8:276:ARG:CZ	2.27	0.47
1:L:377:SER:HB2	1:L:536:THR:HG22	1.95	0.47
1:N:126:MET:HE3	1:N:477:CYS:SG	2.54	0.47
1:O:73:LYS:O	1:O:90:VAL:HA	2.14	0.47
1:O:352:ASN:HD22	1:n:276:ARG:CZ	2.27	0.47
1:R:330:ILE:HG21	1:R:337:PHE:CD2	2.48	0.47
1:S:104:CYS:SG	1:S:176:VAL:HG12	2.54	0.47
1:T:104:CYS:SG	1:T:176:VAL:HG12	2.54	0.47
1:U:104:CYS:SG	1:U:176:VAL:HG12	2.54	0.47
1:U:330:ILE:HG21	1:U:337:PHE:CD2	2.48	0.47
1:U:377:SER:HB2	1:U:536:THR:HG22	1.95	0.47
1:V:330:ILE:HG21	1:V:337:PHE:CD2	2.48	0.47
1:X:330:ILE:HG21	1:X:337:PHE:CD2	2.49	0.47
1:Y:73:LYS:O	1:Y:90:VAL:HA	2.14	0.47
1:Y:137:GLN:NE2	1:Y:467:LEU:HD11	2.29	0.47
1:a:172:TRP:HE1	1:a:436:ASP:HB2	1.77	0.47
1:b:137:GLN:NE2	1:b:467:LEU:HD11	2.29	0.47
1:b:421:CYS:N	1:b:439:ILE:O	2.42	0.47
1:c:104:CYS:SG	1:c:176:VAL:HG12	2.54	0.47
1:c:253:GLU:HG3	1:c:540:LYS:HD3	1.96	0.47
1:d:73:LYS:O	1:d:90:VAL:HA	2.14	0.47
1:e:253:GLU:HG3	1:e:540:LYS:HD3	1.96	0.47
1:f:137:GLN:NE2	1:f:467:LEU:HD11	2.29	0.47
1:f:275:ILE:HD11	1:h:316:THR:HG21	1.96	0.47
1:f:377:SER:HB2	1:f:536:THR:HG22	1.95	0.47
1:h:421:CYS:N	1:h:439:ILE:O	2.42	0.47
1:l:104:CYS:SG	1:l:176:VAL:HG12	2.54	0.47
1:m:253:GLU:HG3	1:m:540:LYS:HD3	1.96	0.47
1:p:271:ARG:NE	1:p:294:PRO:HG2	2.28	0.47
1:q:73:LYS:O	1:q:90:VAL:HA	2.14	0.47
1:q:271:ARG:NE	1:q:294:PRO:HG2	2.28	0.47
1:r:104:CYS:SG	1:r:176:VAL:HG12	2.54	0.47
1:s:112:GLN:NE2	1:s:497:HIS:O	2.47	0.47
1:t:137:GLN:NE2	1:t:467:LEU:HD11	2.29	0.47
1:w:150:ASP:OD1	1:w:151:LEU:N	2.46	0.47
1:z:104:CYS:SG	1:z:176:VAL:HG12	2.54	0.47
1:2:73:LYS:O	1:2:90:VAL:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:421:CYS:N	1:2:439:ILE:O	2.42	0.47
1:3:172:TRP:HE1	1:3:436:ASP:HB2	1.77	0.47
1:5:316:THR:HG21	1:7:275:ILE:HD11	1.96	0.47
1:6:137:GLN:NE2	1:6:467:LEU:HD11	2.29	0.47
1:6:330:ILE:HG21	1:6:337:PHE:CD2	2.49	0.47
1:8:330:ILE:HG21	1:8:337:PHE:CD2	2.48	0.47
1:A:126:MET:HE3	1:A:477:CYS:SG	2.54	0.47
1:B:104:CYS:SG	1:B:176:VAL:HG12	2.54	0.47
1:C:352:ASN:HD22	1:M:276:ARG:CZ	2.27	0.47
1:E:150:ASP:OD1	1:E:151:LEU:N	2.46	0.47
1:F:250:VAL:HG11	1:F:413:ILE:HD11	1.97	0.47
1:G:126:MET:HE3	1:G:477:CYS:SG	2.54	0.47
1:G:137:GLN:NE2	1:G:467:LEU:HD11	2.29	0.47
1:H:507:GLU:HG2	1:H:517:ASP:OD1	2.15	0.47
1:I:377:SER:HB2	1:I:536:THR:HG22	1.95	0.47
1:K:92:THR:OG1	1:K:190:TYR:O	2.32	0.47
1:M:316:THR:HG21	1:b:275:ILE:HD11	1.96	0.47
1:N:104:CYS:SG	1:N:176:VAL:HG12	2.54	0.47
1:P:73:LYS:O	1:P:90:VAL:HA	2.14	0.47
1:P:137:GLN:NE2	1:P:467:LEU:HD11	2.29	0.47
1:R:253:GLU:HG3	1:R:540:LYS:HD3	1.96	0.47
1:R:271:ARG:NE	1:R:294:PRO:HG2	2.28	0.47
1:S:330:ILE:HG21	1:S:337:PHE:CD2	2.49	0.47
1:T:253:GLU:HG3	1:T:540:LYS:HD3	1.96	0.47
1:W:137:GLN:NE2	1:W:467:LEU:HD11	2.30	0.47
1:Z:276:ARG:CZ	1:4:352:ASN:HD22	2.27	0.47
1:c:150:ASP:O	1:c:151:LEU:HB2	2.14	0.47
1:d:276:ARG:CZ	1:l:352:ASN:HD22	2.27	0.47
1:e:104:CYS:SG	1:e:176:VAL:HG12	2.54	0.47
1:h:377:SER:HB2	1:h:536:THR:HG22	1.95	0.47
1:i:126:MET:HE3	1:i:477:CYS:SG	2.54	0.47
1:i:330:ILE:HG21	1:i:337:PHE:CD2	2.49	0.47
1:j:137:GLN:NE2	1:j:467:LEU:HD11	2.29	0.47
1:l:73:LYS:O	1:l:90:VAL:HA	2.14	0.47
1:o:330:ILE:HG21	1:o:337:PHE:CD2	2.49	0.47
1:p:330:ILE:HG21	1:p:337:PHE:CD2	2.49	0.47
1:q:276:ARG:CZ	1:r:352:ASN:HD22	2.27	0.47
1:t:352:ASN:HD22	1:v:276:ARG:CZ	2.27	0.47
1:u:377:SER:HB2	1:u:536:THR:HG22	1.95	0.47
1:v:112:GLN:NE2	1:v:497:HIS:O	2.47	0.47
1:w:330:ILE:HG21	1:w:337:PHE:CD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:250:VAL:HG11	1:y:413:ILE:HD11	1.97	0.47
1:3:253:GLU:HG3	1:3:540:LYS:HD3	1.96	0.47
1:4:73:LYS:O	1:4:90:VAL:HA	2.14	0.47
1:5:104:CYS:SG	1:5:176:VAL:HG12	2.54	0.47
1:7:73:LYS:O	1:7:90:VAL:HA	2.14	0.47
1:7:137:GLN:NE2	1:7:467:LEU:HD11	2.29	0.47
1:A:112:GLN:NE2	1:A:497:HIS:O	2.47	0.47
1:B:505:GLY:O	1:B:511:THR:OG1	2.32	0.47
1:C:250:VAL:HG11	1:C:413:ILE:HD11	1.97	0.47
1:E:276:ARG:CZ	1:Q:352:ASN:HD22	2.27	0.47
1:E:316:THR:HG21	1:F:275:ILE:HD11	1.96	0.47
1:E:330:ILE:HG21	1:E:337:PHE:CD2	2.48	0.47
1:G:515:HIS:HE2	1:W:74:THR:HG21	1.79	0.47
1:H:104:CYS:SG	1:H:176:VAL:HG12	2.54	0.47
1:I:150:ASP:O	1:I:151:LEU:HB2	2.14	0.47
1:J:73:LYS:O	1:J:90:VAL:HA	2.14	0.47
1:J:150:ASP:O	1:J:151:LEU:HB2	2.15	0.47
1:K:150:ASP:O	1:K:151:LEU:HB2	2.15	0.47
1:L:507:GLU:HG2	1:L:517:ASP:OD1	2.15	0.47
1:M:352:ASN:HD22	1:b:276:ARG:CZ	2.28	0.47
1:N:112:GLN:NE2	1:N:497:HIS:O	2.47	0.47
1:N:505:GLY:O	1:N:511:THR:OG1	2.32	0.47
1:N:507:GLU:HG2	1:N:517:ASP:OD1	2.15	0.47
1:O:112:GLN:NE2	1:O:497:HIS:O	2.47	0.47
1:P:271:ARG:NE	1:P:294:PRO:HG2	2.28	0.47
1:R:73:LYS:O	1:R:90:VAL:HA	2.14	0.47
1:R:137:GLN:NE2	1:R:467:LEU:HD11	2.29	0.47
1:R:276:ARG:CZ	1:S:352:ASN:HD22	2.28	0.47
1:V:275:ILE:HD11	1:e:316:THR:HG21	1.97	0.47
1:V:352:ASN:HD22	1:X:276:ARG:CZ	2.27	0.47
1:X:250:VAL:HG11	1:X:413:ILE:HD11	1.97	0.47
1:a:253:GLU:HG3	1:a:540:LYS:HD3	1.96	0.47
1:c:316:THR:HG21	1:p:275:ILE:HD11	1.97	0.47
1:d:137:GLN:NE2	1:d:467:LEU:HD11	2.29	0.47
1:e:150:ASP:O	1:e:151:LEU:HB2	2.15	0.47
1:f:276:ARG:CZ	1:h:352:ASN:HD22	2.28	0.47
1:g:250:VAL:HG11	1:g:413:ILE:HD11	1.97	0.47
1:g:352:ASN:HD22	1:h:276:ARG:CZ	2.27	0.47
1:i:104:CYS:SG	1:i:176:VAL:HG12	2.54	0.47
1:i:112:GLN:NE2	1:i:497:HIS:O	2.47	0.47
1:i:275:ILE:HD11	1:j:316:THR:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:73:LYS:O	1:k:90:VAL:HA	2.14	0.47
1:k:112:GLN:NE2	1:k:497:HIS:O	2.47	0.47
1:k:150:ASP:O	1:k:151:LEU:HB2	2.15	0.47
1:n:137:GLN:NE2	1:n:467:LEU:HD11	2.29	0.47
1:n:505:GLY:O	1:n:511:THR:OG1	2.32	0.47
1:o:126:MET:HE3	1:o:477:CYS:SG	2.54	0.47
1:o:250:VAL:HG11	1:o:413:ILE:HD11	1.97	0.47
1:o:276:ARG:CZ	1:p:352:ASN:HD22	2.27	0.47
1:p:104:CYS:SG	1:p:176:VAL:HG12	2.54	0.47
1:q:275:ILE:HD11	1:r:316:THR:HG21	1.96	0.47
1:q:330:ILE:HG21	1:q:337:PHE:CD2	2.48	0.47
1:r:325:PRO:O	1:r:328:THR:HG22	2.13	0.47
1:r:330:ILE:HG21	1:r:337:PHE:CD2	2.48	0.47
1:s:377:SER:HB2	1:s:536:THR:HG22	1.95	0.47
1:t:150:ASP:O	1:t:151:LEU:HB2	2.14	0.47
1:t:316:THR:HG21	1:v:275:ILE:HD11	1.96	0.47
1:w:316:THR:HG21	1:y:275:ILE:HD11	1.96	0.47
1:z:276:ARG:CZ	1:1:352:ASN:HD22	2.27	0.47
1:z:507:GLU:HG2	1:z:517:ASP:OD1	2.15	0.47
1:1:104:CYS:SG	1:1:176:VAL:HG12	2.54	0.47
1:1:505:GLY:O	1:1:511:THR:OG1	2.32	0.47
1:4:92:THR:OG1	1:4:190:TYR:O	2.32	0.47
1:4:150:ASP:O	1:4:151:LEU:HB2	2.15	0.47
1:5:507:GLU:HG2	1:5:517:ASP:OD1	2.15	0.47
1:B:137:GLN:NE2	1:B:467:LEU:HD11	2.29	0.47
1:B:352:ASN:HD22	1:L:276:ARG:CZ	2.27	0.47
1:C:150:ASP:OD1	1:C:151:LEU:N	2.46	0.47
1:D:137:GLN:NE2	1:D:467:LEU:HD11	2.29	0.47
1:D:150:ASP:O	1:D:151:LEU:HB2	2.15	0.47
1:E:507:GLU:HG2	1:E:517:ASP:OD1	2.15	0.47
1:H:377:SER:HB2	1:H:536:THR:HG22	1.95	0.47
1:J:421:CYS:N	1:J:439:ILE:O	2.42	0.47
1:K:73:LYS:O	1:K:90:VAL:HA	2.14	0.47
1:K:137:GLN:NE2	1:K:467:LEU:HD11	2.29	0.47
1:N:137:GLN:NE2	1:N:467:LEU:HD11	2.30	0.47
1:N:275:ILE:HD11	1:P:316:THR:HG21	1.96	0.47
1:O:250:VAL:HG11	1:O:413:ILE:HD11	1.97	0.47
1:R:275:ILE:HD11	1:S:316:THR:HG21	1.96	0.47
1:S:126:MET:HE3	1:S:477:CYS:SG	2.54	0.47
1:T:250:VAL:HG11	1:T:413:ILE:HD11	1.97	0.47
1:X:352:ASN:HD22	1:e:276:ARG:CZ	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:276:ARG:CZ	1:8:352:ASN:HD22	2.27	0.47
1:c:271:ARG:NE	1:c:294:PRO:HG2	2.28	0.47
1:d:505:GLY:O	1:d:511:THR:OG1	2.32	0.47
1:g:150:ASP:OD1	1:g:151:LEU:N	2.46	0.47
1:i:137:GLN:NE2	1:i:467:LEU:HD11	2.30	0.47
1:i:507:GLU:HG2	1:i:517:ASP:OD1	2.15	0.47
1:j:271:ARG:NE	1:j:294:PRO:HG2	2.28	0.47
1:k:137:GLN:NE2	1:k:467:LEU:HD11	2.29	0.47
1:l:112:GLN:NE2	1:l:497:HIS:O	2.47	0.47
1:l:250:VAL:HG11	1:l:413:ILE:HD11	1.97	0.47
1:m:250:VAL:HG11	1:m:413:ILE:HD11	1.97	0.47
1:q:137:GLN:NE2	1:q:467:LEU:HD11	2.29	0.47
1:q:253:GLU:HG3	1:q:540:LYS:HD3	1.96	0.47
1:q:352:ASN:HD22	1:s:276:ARG:CZ	2.27	0.47
1:r:137:GLN:NE2	1:r:467:LEU:HD11	2.29	0.47
1:u:104:CYS:SG	1:u:176:VAL:HG12	2.54	0.47
1:u:150:ASP:O	1:u:151:LEU:HB2	2.14	0.47
1:w:276:ARG:CZ	1:x:352:ASN:HD22	2.27	0.47
1:2:150:ASP:O	1:2:151:LEU:HB2	2.15	0.47
1:3:150:ASP:O	1:3:151:LEU:HB2	2.14	0.47
1:4:137:GLN:NE2	1:4:467:LEU:HD11	2.30	0.47
1:6:104:CYS:SG	1:6:176:VAL:HG12	2.54	0.47
1:6:250:VAL:HG11	1:6:413:ILE:HD11	1.96	0.47
1:6:275:ILE:HD11	1:7:316:THR:HG21	1.96	0.47
1:7:104:CYS:SG	1:7:176:VAL:HG12	2.54	0.47
1:C:275:ILE:HD11	1:b:316:THR:HG21	1.96	0.47
1:D:112:GLN:NE2	1:D:497:HIS:O	2.47	0.47
1:F:222:PHE:CZ	1:F:224:LEU:HD21	2.50	0.47
1:G:150:ASP:O	1:G:151:LEU:HB2	2.15	0.47
1:H:137:GLN:NE2	1:H:467:LEU:HD11	2.29	0.47
1:O:150:ASP:OD1	1:O:151:LEU:N	2.46	0.47
1:P:126:MET:HE3	1:P:477:CYS:SG	2.54	0.47
1:P:507:GLU:HG2	1:P:517:ASP:OD1	2.15	0.47
1:R:316:THR:HG21	1:U:275:ILE:HD11	1.96	0.47
1:R:352:ASN:HD22	1:U:276:ARG:CZ	2.27	0.47
1:R:427:ASP:OD2	1:U:535:LYS:NZ	2.32	0.47
1:S:325:PRO:O	1:S:328:THR:HG22	2.13	0.47
1:T:222:PHE:CZ	1:T:224:LEU:HD21	2.50	0.47
1:Y:104:CYS:SG	1:Y:176:VAL:HG12	2.54	0.47
1:a:92:THR:OG1	1:a:190:TYR:O	2.32	0.47
1:a:150:ASP:O	1:a:151:LEU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:137:GLN:NE2	1:c:467:LEU:HD11	2.29	0.47
1:c:276:ARG:CZ	1:o:352:ASN:HD22	2.28	0.47
1:e:137:GLN:NE2	1:e:467:LEU:HD11	2.29	0.47
1:e:271:ARG:NE	1:e:294:PRO:HG2	2.28	0.47
1:f:92:THR:OG1	1:f:190:TYR:O	2.32	0.47
1:f:316:THR:HG21	1:g:275:ILE:HD11	1.96	0.47
1:j:126:MET:HE3	1:j:477:CYS:SG	2.54	0.47
1:m:222:PHE:CZ	1:m:224:LEU:HD21	2.50	0.47
1:n:126:MET:HE3	1:n:477:CYS:SG	2.54	0.47
1:n:507:GLU:HG2	1:n:517:ASP:OD1	2.15	0.47
1:p:137:GLN:NE2	1:p:467:LEU:HD11	2.29	0.47
1:v:515:HIS:HE2	1:w:74:THR:HG21	1.79	0.47
1:w:507:GLU:HG2	1:w:517:ASP:OD1	2.15	0.47
1:z:352:ASN:HD22	1:2:276:ARG:CZ	2.27	0.47
1:1:137:GLN:NE2	1:1:467:LEU:HD11	2.29	0.47
1:1:150:ASP:O	1:1:151:LEU:HB2	2.14	0.47
1:3:92:THR:OG1	1:3:190:TYR:O	2.32	0.47
1:4:222:PHE:CZ	1:4:224:LEU:HD21	2.50	0.47
1:5:137:GLN:NE2	1:5:467:LEU:HD11	2.29	0.47
1:5:377:SER:HB2	1:5:536:THR:HG22	1.95	0.47
1:A:276:ARG:CZ	1:G:352:ASN:HD22	2.28	0.47
1:B:150:ASP:O	1:B:151:LEU:HB2	2.14	0.47
1:B:150:ASP:OD1	1:B:151:LEU:N	2.46	0.47
1:C:276:ARG:CZ	1:b:352:ASN:HD22	2.27	0.47
1:E:150:ASP:O	1:E:151:LEU:HB2	2.14	0.47
1:G:104:CYS:SG	1:G:176:VAL:HG12	2.54	0.47
1:G:275:ILE:HD11	1:I:316:THR:HG21	1.96	0.47
1:H:222:PHE:CZ	1:H:224:LEU:HD21	2.50	0.47
1:H:275:ILE:HD11	1:W:316:THR:HG21	1.97	0.47
1:J:276:ARG:CZ	1:L:352:ASN:HD22	2.27	0.47
1:K:104:CYS:SG	1:K:176:VAL:HG12	2.54	0.47
1:K:222:PHE:CZ	1:K:224:LEU:HD21	2.50	0.47
1:K:250:VAL:HG11	1:K:413:ILE:HD11	1.97	0.47
1:N:276:ARG:CZ	1:P:352:ASN:HD22	2.28	0.47
1:S:137:GLN:NE2	1:S:467:LEU:HD11	2.30	0.47
1:T:112:GLN:NE2	1:T:497:HIS:O	2.47	0.47
1:V:137:GLN:NE2	1:V:467:LEU:HD11	2.29	0.47
1:V:150:ASP:O	1:V:151:LEU:HB2	2.14	0.47
1:V:504:LEU:HD23	1:V:509:ASN:O	2.15	0.47
1:W:104:CYS:SG	1:W:176:VAL:HG12	2.54	0.47
1:W:150:ASP:O	1:W:151:LEU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:222:PHE:CZ	1:Y:224:LEU:HD21	2.50	0.47
1:Z:352:ASN:HD22	1:3:276:ARG:CZ	2.28	0.47
1:c:150:ASP:OD1	1:c:151:LEU:N	2.46	0.47
1:d:126:MET:HE3	1:d:477:CYS:SG	2.54	0.47
1:d:150:ASP:O	1:d:151:LEU:HB2	2.14	0.47
1:d:507:GLU:HG2	1:d:517:ASP:OD1	2.15	0.47
1:f:352:ASN:HD22	1:g:276:ARG:CZ	2.27	0.47
1:i:276:ARG:CZ	1:j:352:ASN:HD22	2.28	0.47
1:k:250:VAL:HG11	1:k:413:ILE:HD11	1.97	0.47
1:k:505:GLY:O	1:k:511:THR:OG1	2.32	0.47
1:q:316:THR:HG21	1:s:275:ILE:HD11	1.96	0.47
1:q:427:ASP:OD2	1:s:535:LYS:NZ	2.32	0.47
1:r:126:MET:HE3	1:r:477:CYS:SG	2.54	0.47
1:t:104:CYS:SG	1:t:176:VAL:HG12	2.54	0.47
1:y:222:PHE:CZ	1:y:224:LEU:HD21	2.50	0.47
1:2:222:PHE:CZ	1:2:224:LEU:HD21	2.50	0.47
1:3:137:GLN:NE2	1:3:467:LEU:HD11	2.29	0.47
1:4:104:CYS:SG	1:4:176:VAL:HG12	2.54	0.47
1:4:250:VAL:HG11	1:4:413:ILE:HD11	1.97	0.47
1:5:309:VAL:HG22	1:7:390:ASN:O	2.15	0.47
1:6:112:GLN:NE2	1:6:497:HIS:O	2.47	0.47
1:6:507:GLU:HG2	1:6:517:ASP:OD1	2.15	0.47
1:B:276:ARG:CZ	1:J:352:ASN:HD22	2.28	0.47
1:B:316:THR:HG21	1:L:275:ILE:HD11	1.97	0.47
1:B:507:GLU:HG2	1:B:517:ASP:OD1	2.15	0.47
1:D:74:THR:HG21	1:E:515:HIS:HE2	1.80	0.47
1:D:250:VAL:HG11	1:D:413:ILE:HD11	1.97	0.47
1:F:150:ASP:O	1:F:151:LEU:HB2	2.14	0.47
1:F:504:LEU:HD23	1:F:509:ASN:O	2.15	0.47
1:F:507:GLU:HG2	1:F:517:ASP:OD1	2.15	0.47
1:G:222:PHE:CZ	1:G:224:LEU:HD21	2.50	0.47
1:G:250:VAL:HG11	1:G:413:ILE:HD11	1.97	0.47
1:G:507:GLU:HG2	1:G:517:ASP:OD1	2.15	0.47
1:I:112:GLN:NE2	1:I:497:HIS:O	2.47	0.47
1:I:250:VAL:HG11	1:I:413:ILE:HD11	1.97	0.47
1:J:104:CYS:SG	1:J:176:VAL:HG12	2.54	0.47
1:J:222:PHE:CZ	1:J:224:LEU:HD21	2.50	0.47
1:K:112:GLN:NE2	1:K:497:HIS:O	2.47	0.47
1:K:275:ILE:HD11	1:a:316:THR:HG21	1.96	0.47
1:K:276:ARG:CZ	1:a:352:ASN:HD22	2.27	0.47
1:L:150:ASP:O	1:L:151:LEU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:222:PHE:CZ	1:L:224:LEU:HD21	2.50	0.47
1:M:137:GLN:NE2	1:M:467:LEU:HD11	2.29	0.47
1:M:150:ASP:O	1:M:151:LEU:HB2	2.14	0.47
1:M:507:GLU:HG2	1:M:517:ASP:OD1	2.15	0.47
1:N:253:GLU:HG3	1:N:540:LYS:HD3	1.96	0.47
1:N:504:LEU:HD23	1:N:509:ASN:O	2.15	0.47
1:O:275:ILE:HD11	1:m:316:THR:HG21	1.96	0.47
1:O:276:ARG:CZ	1:m:352:ASN:HD22	2.27	0.47
1:O:504:LEU:HD23	1:O:509:ASN:O	2.15	0.47
1:P:250:VAL:HG11	1:P:413:ILE:HD11	1.97	0.47
1:P:253:GLU:HG3	1:P:540:LYS:HD3	1.96	0.47
1:Q:137:GLN:NE2	1:Q:467:LEU:HD11	2.29	0.47
1:Q:504:LEU:HD23	1:Q:509:ASN:O	2.15	0.47
1:Q:507:GLU:HG2	1:Q:517:ASP:OD1	2.15	0.47
1:R:150:ASP:O	1:R:151:LEU:HB2	2.14	0.47
1:T:73:LYS:O	1:T:90:VAL:HA	2.14	0.47
1:T:276:ARG:CZ	1:d:352:ASN:HD22	2.27	0.47
1:T:316:THR:HG21	1:l:275:ILE:HD11	1.96	0.47
1:U:126:MET:HE3	1:U:477:CYS:SG	2.54	0.47
1:V:92:THR:OG1	1:V:190:TYR:O	2.32	0.47
1:V:250:VAL:HG11	1:V:413:ILE:HD11	1.97	0.47
1:V:309:VAL:HG22	1:X:390:ASN:O	2.15	0.47
1:W:112:GLN:NE2	1:W:497:HIS:O	2.47	0.47
1:W:250:VAL:HG11	1:W:413:ILE:HD11	1.97	0.47
1:W:507:GLU:HG2	1:W:517:ASP:OD1	2.15	0.47
1:Z:250:VAL:HG11	1:Z:413:ILE:HD11	1.97	0.47
1:a:137:GLN:NE2	1:a:467:LEU:HD11	2.29	0.47
1:a:150:ASP:OD1	1:a:151:LEU:N	2.46	0.47
1:b:92:THR:OG1	1:b:190:TYR:O	2.32	0.47
1:b:104:CYS:SG	1:b:176:VAL:HG12	2.54	0.47
1:b:250:VAL:HG11	1:b:413:ILE:HD11	1.97	0.47
1:c:112:GLN:NE2	1:c:497:HIS:O	2.47	0.47
1:c:507:GLU:HG2	1:c:517:ASP:OD1	2.15	0.47
1:d:275:ILE:HD11	1:l:316:THR:HG21	1.97	0.47
1:e:112:GLN:NE2	1:e:497:HIS:O	2.47	0.47
1:e:150:ASP:OD1	1:e:151:LEU:N	2.46	0.47
1:e:507:GLU:HG2	1:e:517:ASP:OD1	2.15	0.47
1:f:104:CYS:SG	1:f:176:VAL:HG12	2.54	0.47
1:g:504:LEU:HD23	1:g:509:ASN:O	2.15	0.47
1:h:150:ASP:O	1:h:151:LEU:HB2	2.14	0.47
1:i:504:LEU:HD23	1:i:509:ASN:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:250:VAL:HG11	1:j:413:ILE:HD11	1.97	0.47
1:j:253:GLU:HG3	1:j:540:LYS:HD3	1.96	0.47
1:j:507:GLU:HG2	1:j:517:ASP:OD1	2.15	0.47
1:l:150:ASP:OD1	1:l:151:LEU:N	2.46	0.47
1:m:112:GLN:NE2	1:m:497:HIS:O	2.47	0.47
1:m:276:ARG:CZ	1:n:352:ASN:HD22	2.27	0.47
1:n:150:ASP:O	1:n:151:LEU:HB2	2.14	0.47
1:o:104:CYS:SG	1:o:176:VAL:HG12	2.54	0.47
1:o:222:PHE:CZ	1:o:224:LEU:HD21	2.50	0.47
1:p:92:THR:OG1	1:p:190:TYR:O	2.32	0.47
1:p:150:ASP:O	1:p:151:LEU:HB2	2.15	0.47
1:p:250:VAL:HG11	1:p:413:ILE:HD11	1.97	0.47
1:p:504:LEU:HD23	1:p:509:ASN:O	2.15	0.47
1:q:150:ASP:O	1:q:151:LEU:HB2	2.14	0.47
1:r:150:ASP:O	1:r:151:LEU:HB2	2.15	0.47
1:r:275:ILE:HD11	1:s:316:THR:HG21	1.96	0.47
1:t:222:PHE:CZ	1:t:224:LEU:HD21	2.50	0.47
1:t:250:VAL:HG11	1:t:413:ILE:HD11	1.97	0.47
1:t:275:ILE:HD11	1:u:316:THR:HG21	1.96	0.47
1:t:421:CYS:N	1:t:439:ILE:O	2.42	0.47
1:t:507:GLU:HG2	1:t:517:ASP:OD1	2.15	0.47
1:u:222:PHE:CZ	1:u:224:LEU:HD21	2.50	0.47
1:u:250:VAL:HG11	1:u:413:ILE:HD11	1.97	0.47
1:v:250:VAL:HG11	1:v:413:ILE:HD11	1.97	0.47
1:w:150:ASP:O	1:w:151:LEU:HB2	2.14	0.47
1:w:275:ILE:HD11	1:x:316:THR:HG21	1.96	0.47
1:x:137:GLN:NE2	1:x:467:LEU:HD11	2.29	0.47
1:x:250:VAL:HG11	1:x:413:ILE:HD11	1.97	0.47
1:x:504:LEU:HD23	1:x:509:ASN:O	2.15	0.47
1:x:507:GLU:HG2	1:x:517:ASP:OD1	2.15	0.47
1:y:507:GLU:HG2	1:y:517:ASP:OD1	2.15	0.47
1:z:150:ASP:O	1:z:151:LEU:HB2	2.14	0.47
1:z:222:PHE:CZ	1:z:224:LEU:HD21	2.50	0.47
1:1:150:ASP:OD1	1:1:151:LEU:N	2.46	0.47
1:1:222:PHE:CZ	1:1:224:LEU:HD21	2.50	0.47
1:1:276:ARG:CZ	1:2:352:ASN:HD22	2.28	0.47
1:1:507:GLU:HG2	1:1:517:ASP:OD1	2.15	0.47
1:2:104:CYS:SG	1:2:176:VAL:HG12	2.54	0.47
1:2:137:GLN:NE2	1:2:467:LEU:HD11	2.29	0.47
1:3:150:ASP:OD1	1:3:151:LEU:N	2.46	0.47
1:3:316:THR:HG21	1:4:275:ILE:HD11	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:352:ASN:HD22	1:4:276:ARG:CZ	2.27	0.47
1:5:222:PHE:CZ	1:5:224:LEU:HD21	2.50	0.47
1:7:222:PHE:CZ	1:7:224:LEU:HD21	2.50	0.47
1:8:250:VAL:HG11	1:8:413:ILE:HD11	1.97	0.47
1:A:250:VAL:HG11	1:A:413:ILE:HD11	1.97	0.47
1:A:275:ILE:HD11	1:G:316:THR:HG21	1.97	0.47
1:B:222:PHE:CZ	1:B:224:LEU:HD21	2.50	0.47
1:C:504:LEU:HD23	1:C:509:ASN:O	2.15	0.47
1:D:316:THR:HG21	1:P:275:ILE:HD11	1.96	0.47
1:E:275:ILE:HD11	1:Q:316:THR:HG21	1.96	0.47
1:E:504:LEU:HD23	1:E:509:ASN:O	2.15	0.47
1:I:222:PHE:CZ	1:I:224:LEU:HD21	2.50	0.47
1:J:137:GLN:NE2	1:J:467:LEU:HD11	2.30	0.47
1:O:316:THR:HG21	1:n:275:ILE:HD11	1.97	0.47
1:Q:150:ASP:O	1:Q:151:LEU:HB2	2.15	0.47
1:Q:250:VAL:HG11	1:Q:413:ILE:HD11	1.97	0.47
1:R:104:CYS:SG	1:R:176:VAL:HG12	2.54	0.47
1:S:150:ASP:O	1:S:151:LEU:HB2	2.15	0.47
1:T:507:GLU:HG2	1:T:517:ASP:OD1	2.15	0.47
1:W:222:PHE:CZ	1:W:224:LEU:HD21	2.50	0.47
1:Y:150:ASP:O	1:Y:151:LEU:HB2	2.14	0.47
1:Z:275:ILE:HD11	1:4:316:THR:HG21	1.96	0.47
1:a:535:LYS:NZ	1:8:427:ASP:OD2	2.32	0.47
1:b:222:PHE:CZ	1:b:224:LEU:HD21	2.50	0.47
1:f:250:VAL:HG11	1:f:413:ILE:HD11	1.97	0.47
1:f:507:GLU:HG2	1:f:517:ASP:OD1	2.15	0.47
1:h:137:GLN:NE2	1:h:467:LEU:HD11	2.29	0.47
1:h:507:GLU:HG2	1:h:517:ASP:OD1	2.15	0.47
1:j:150:ASP:O	1:j:151:LEU:HB2	2.14	0.47
1:k:74:THR:HG21	1:w:515:HIS:HE2	1.80	0.47
1:l:504:LEU:HD23	1:l:509:ASN:O	2.15	0.47
1:q:104:CYS:SG	1:q:176:VAL:HG12	2.54	0.47
1:q:250:VAL:HG11	1:q:413:ILE:HD11	1.97	0.47
1:q:507:GLU:HG2	1:q:517:ASP:OD1	2.15	0.47
1:s:126:MET:HE3	1:s:477:CYS:SG	2.54	0.47
1:t:504:LEU:HD23	1:t:509:ASN:O	2.15	0.47
1:u:112:GLN:NE2	1:u:497:HIS:O	2.47	0.47
1:u:421:CYS:N	1:u:439:ILE:O	2.42	0.47
1:w:504:LEU:HD23	1:w:509:ASN:O	2.15	0.47
1:x:112:GLN:NE2	1:x:497:HIS:O	2.47	0.47
1:x:275:ILE:HD11	1:y:316:THR:HG21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:104:CYS:SG	1:y:176:VAL:HG12	2.54	0.47
1:y:504:LEU:HD23	1:y:509:ASN:O	2.15	0.47
1:z:275:ILE:HD11	1:1:316:THR:HG21	1.97	0.47
1:3:222:PHE:CZ	1:3:224:LEU:HD21	2.50	0.47
1:4:504:LEU:HD23	1:4:509:ASN:O	2.15	0.47
1:5:250:VAL:HG11	1:5:413:ILE:HD11	1.97	0.47
1:7:126:MET:HB2	1:7:245:PHE:HE2	1.80	0.47
1:A:104:CYS:SG	1:A:176:VAL:HG12	2.54	0.47
1:E:390:ASN:O	1:Q:309:VAL:HG22	2.15	0.47
1:F:104:CYS:SG	1:F:176:VAL:HG12	2.54	0.47
1:F:316:THR:HG21	1:Q:275:ILE:HD11	1.97	0.47
1:G:421:CYS:N	1:G:439:ILE:O	2.42	0.47
1:G:504:LEU:HD23	1:G:509:ASN:O	2.15	0.47
1:H:250:VAL:HG11	1:H:413:ILE:HD11	1.97	0.47
1:I:421:CYS:N	1:I:439:ILE:O	2.42	0.47
1:J:504:LEU:HD23	1:J:509:ASN:O	2.15	0.47
1:L:504:LEU:HD23	1:L:509:ASN:O	2.15	0.47
1:M:250:VAL:HG11	1:M:413:ILE:HD11	1.97	0.47
1:O:150:ASP:O	1:O:151:LEU:HB2	2.14	0.47
1:O:507:GLU:HG2	1:O:517:ASP:OD1	2.15	0.47
1:P:150:ASP:O	1:P:151:LEU:HB2	2.14	0.47
1:Q:112:GLN:NE2	1:Q:497:HIS:O	2.47	0.47
1:Q:222:PHE:CZ	1:Q:224:LEU:HD21	2.50	0.47
1:R:250:VAL:HG11	1:R:413:ILE:HD11	1.97	0.47
1:R:507:GLU:HG2	1:R:517:ASP:OD1	2.15	0.47
1:S:275:ILE:HD11	1:U:316:THR:HG21	1.97	0.47
1:T:352:ASN:HD22	1:l:276:ARG:CZ	2.27	0.47
1:T:504:LEU:HD23	1:T:509:ASN:O	2.15	0.47
1:U:504:LEU:HD23	1:U:509:ASN:O	2.15	0.47
1:V:276:ARG:CZ	1:e:352:ASN:HD22	2.27	0.47
1:W:73:LYS:O	1:W:90:VAL:HA	2.14	0.47
1:X:104:CYS:SG	1:X:176:VAL:HG12	2.54	0.47
1:X:222:PHE:CZ	1:X:224:LEU:HD21	2.50	0.47
1:Z:222:PHE:CZ	1:Z:224:LEU:HD21	2.50	0.47
1:Z:253:GLU:HG3	1:Z:540:LYS:HD3	1.96	0.47
1:Z:316:THR:HG21	1:3:275:ILE:HD11	1.96	0.47
1:a:222:PHE:CZ	1:a:224:LEU:HD21	2.50	0.47
1:b:507:GLU:HG2	1:b:517:ASP:OD1	2.15	0.47
1:d:222:PHE:CZ	1:d:224:LEU:HD21	2.50	0.47
1:d:421:CYS:N	1:d:439:ILE:O	2.42	0.47
1:f:222:PHE:CZ	1:f:224:LEU:HD21	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:250:VAL:HG11	1:h:413:ILE:HD11	1.97	0.47
1:i:150:ASP:O	1:i:151:LEU:HB2	2.15	0.47
1:i:253:GLU:HG3	1:i:540:LYS:HD3	1.96	0.47
1:j:275:ILE:HD11	1:k:316:THR:HG21	1.96	0.47
1:m:73:LYS:O	1:m:90:VAL:HA	2.14	0.47
1:m:504:LEU:HD23	1:m:509:ASN:O	2.15	0.47
1:m:507:GLU:HG2	1:m:517:ASP:OD1	2.15	0.47
1:n:421:CYS:N	1:n:439:ILE:O	2.42	0.47
1:o:390:ASN:O	1:p:309:VAL:HG22	2.15	0.47
1:p:253:GLU:HG3	1:p:540:LYS:HD3	1.96	0.47
1:s:504:LEU:HD23	1:s:509:ASN:O	2.15	0.47
1:x:104:CYS:SG	1:x:176:VAL:HG12	2.54	0.47
1:x:222:PHE:CZ	1:x:224:LEU:HD21	2.50	0.47
1:y:150:ASP:O	1:y:151:LEU:HB2	2.15	0.47
1:3:504:LEU:HD23	1:3:509:ASN:O	2.15	0.47
1:4:112:GLN:NE2	1:4:497:HIS:O	2.47	0.47
1:5:276:ARG:CZ	1:6:352:ASN:HD22	2.28	0.47
1:6:73:LYS:O	1:6:90:VAL:HA	2.14	0.47
1:6:150:ASP:O	1:6:151:LEU:HB2	2.15	0.47
1:6:222:PHE:CZ	1:6:224:LEU:HD21	2.50	0.47
1:A:137:GLN:NE2	1:A:467:LEU:HD11	2.29	0.47
1:B:126:MET:HE3	1:B:477:CYS:SG	2.54	0.47
1:D:126:MET:HB2	1:D:245:PHE:HE2	1.80	0.47
1:D:507:GLU:HG2	1:D:517:ASP:OD1	2.15	0.47
1:E:250:VAL:HG11	1:E:413:ILE:HD11	1.97	0.47
1:E:352:ASN:HD22	1:F:276:ARG:CZ	2.27	0.47
1:H:352:ASN:HD22	1:Y:276:ARG:CZ	2.27	0.47
1:J:507:GLU:HG2	1:J:517:ASP:OD1	2.15	0.47
1:K:504:LEU:HD23	1:K:509:ASN:O	2.15	0.47
1:N:150:ASP:O	1:N:151:LEU:HB2	2.15	0.47
1:Q:104:CYS:SG	1:Q:176:VAL:HG12	2.54	0.47
1:S:222:PHE:CZ	1:S:224:LEU:HD21	2.50	0.47
1:S:250:VAL:HG11	1:S:413:ILE:HD11	1.97	0.47
1:S:276:ARG:CZ	1:U:352:ASN:HD22	2.27	0.47
1:T:137:GLN:NE2	1:T:467:LEU:HD11	2.29	0.47
1:V:253:GLU:HG3	1:V:540:LYS:HD3	1.96	0.47
1:W:126:MET:HB2	1:W:245:PHE:HE2	1.80	0.47
1:W:390:ASN:O	1:Y:309:VAL:HG22	2.14	0.47
1:Y:126:MET:HB2	1:Y:245:PHE:HE2	1.80	0.47
1:Y:250:VAL:HG11	1:Y:413:ILE:HD11	1.97	0.47
1:Z:137:GLN:NE2	1:Z:467:LEU:HD11	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:390:ASN:O	1:4:309:VAL:HG22	2.15	0.47
1:Z:427:ASP:OD2	1:3:535:LYS:NZ	2.32	0.47
1:a:275:ILE:HD11	1:8:316:THR:HG21	1.97	0.47
1:a:504:LEU:HD23	1:a:509:ASN:O	2.15	0.47
1:d:104:CYS:SG	1:d:176:VAL:HG12	2.54	0.47
1:d:250:VAL:HG11	1:d:413:ILE:HD11	1.97	0.47
1:f:150:ASP:O	1:f:151:LEU:HB2	2.14	0.47
1:k:126:MET:HB2	1:k:245:PHE:HE2	1.80	0.47
1:k:504:LEU:HD23	1:k:509:ASN:O	2.15	0.47
1:l:150:ASP:O	1:l:151:LEU:HB2	2.14	0.47
1:l:507:GLU:HG2	1:l:517:ASP:OD1	2.15	0.47
1:m:137:GLN:NE2	1:m:467:LEU:HD11	2.30	0.47
1:m:275:ILE:HD11	1:n:316:THR:HG21	1.96	0.47
1:n:222:PHE:CZ	1:n:224:LEU:HD21	2.50	0.47
1:r:504:LEU:HD23	1:r:509:ASN:O	2.15	0.47
1:t:126:MET:HB2	1:t:245:PHE:HE2	1.80	0.47
1:v:137:GLN:NE2	1:v:467:LEU:HD11	2.29	0.47
1:w:250:VAL:HG11	1:w:413:ILE:HD11	1.97	0.47
1:w:352:ASN:HD22	1:y:276:ARG:CZ	2.27	0.47
1:w:390:ASN:O	1:x:309:VAL:HG22	2.15	0.47
1:x:150:ASP:O	1:x:151:LEU:HB2	2.15	0.47
1:x:505:GLY:O	1:x:511:THR:OG1	2.32	0.47
1:z:137:GLN:NE2	1:z:467:LEU:HD11	2.29	0.47
1:z:504:LEU:HD23	1:z:509:ASN:O	2.15	0.47
1:1:275:ILE:HD11	1:2:316:THR:HG21	1.96	0.47
1:3:507:GLU:HG2	1:3:517:ASP:OD1	2.15	0.47
1:6:126:MET:HB2	1:6:245:PHE:HE2	1.80	0.47
1:7:150:ASP:O	1:7:151:LEU:HB2	2.15	0.47
1:7:250:VAL:HG11	1:7:413:ILE:HD11	1.97	0.47
1:8:222:PHE:CZ	1:8:224:LEU:HD21	2.50	0.47
1:A:126:MET:HB2	1:A:245:PHE:HE2	1.80	0.46
1:A:222:PHE:CZ	1:A:224:LEU:HD21	2.50	0.46
1:B:275:ILE:HD11	1:J:316:THR:HG21	1.96	0.46
1:C:137:GLN:NE2	1:C:467:LEU:HD11	2.29	0.46
1:D:504:LEU:HD23	1:D:509:ASN:O	2.15	0.46
1:E:137:GLN:NE2	1:E:467:LEU:HD11	2.29	0.46
1:G:126:MET:HB2	1:G:245:PHE:HE2	1.80	0.46
1:J:253:GLU:HG3	1:J:540:LYS:HD3	1.96	0.46
1:M:309:VAL:HG22	1:b:390:ASN:O	2.16	0.46
1:R:222:PHE:CZ	1:R:224:LEU:HD21	2.50	0.46
1:S:504:LEU:HD23	1:S:509:ASN:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:137:GLN:NE2	1:X:467:LEU:HD11	2.29	0.46
1:a:507:GLU:HG2	1:a:517:ASP:OD1	2.15	0.46
1:b:150:ASP:O	1:b:151:LEU:HB2	2.15	0.46
1:c:352:ASN:HD22	1:p:276:ARG:CZ	2.27	0.46
1:f:390:ASN:O	1:h:309:VAL:HG22	2.16	0.46
1:k:507:GLU:HG2	1:k:517:ASP:OD1	2.15	0.46
1:n:104:CYS:SG	1:n:176:VAL:HG12	2.54	0.46
1:n:250:VAL:HG11	1:n:413:ILE:HD11	1.97	0.46
1:o:137:GLN:NE2	1:o:467:LEU:HD11	2.29	0.46
1:q:222:PHE:CZ	1:q:224:LEU:HD21	2.50	0.46
1:r:222:PHE:CZ	1:r:224:LEU:HD21	2.50	0.46
1:r:276:ARG:CZ	1:s:352:ASN:HD22	2.27	0.46
1:v:126:MET:HB2	1:v:245:PHE:HE2	1.80	0.46
1:w:137:GLN:NE2	1:w:467:LEU:HD11	2.30	0.46
1:1:126:MET:HE3	1:1:477:CYS:SG	2.54	0.46
1:2:253:GLU:HG3	1:2:540:LYS:HD3	1.96	0.46
1:2:507:GLU:HG2	1:2:517:ASP:OD1	2.15	0.46
1:5:504:LEU:HD23	1:5:509:ASN:O	2.15	0.46
1:8:137:GLN:NE2	1:8:467:LEU:HD11	2.29	0.46
1:A:150:ASP:O	1:A:151:LEU:HB2	2.14	0.46
1:B:504:LEU:HD23	1:B:509:ASN:O	2.15	0.46
1:G:390:ASN:O	1:I:309:VAL:HG22	2.15	0.46
1:J:275:ILE:HD11	1:L:316:THR:HG21	1.97	0.46
1:K:309:VAL:HG22	1:8:390:ASN:O	2.15	0.46
1:K:316:THR:HG21	1:8:275:ILE:HD11	1.96	0.46
1:L:112:GLN:NE2	1:L:497:HIS:O	2.47	0.46
1:L:137:GLN:NE2	1:L:467:LEU:HD11	2.30	0.46
1:Q:505:GLY:O	1:Q:511:THR:OG1	2.32	0.46
1:R:504:LEU:HD23	1:R:509:ASN:O	2.15	0.46
1:U:137:GLN:NE2	1:U:467:LEU:HD11	2.29	0.46
1:V:222:PHE:CZ	1:V:224:LEU:HD21	2.50	0.46
1:V:507:GLU:HG2	1:V:517:ASP:OD1	2.15	0.46
1:Z:309:VAL:HG22	1:3:390:ASN:O	2.16	0.46
1:g:137:GLN:NE2	1:g:467:LEU:HD11	2.29	0.46
1:h:505:GLY:O	1:h:511:THR:OG1	2.32	0.46
1:j:222:PHE:CZ	1:j:224:LEU:HD21	2.50	0.46
1:l:137:GLN:NE2	1:l:467:LEU:HD11	2.29	0.46
1:r:250:VAL:HG11	1:r:413:ILE:HD11	1.97	0.46
1:s:253:GLU:HG3	1:s:540:LYS:HD3	1.96	0.46
1:t:390:ASN:O	1:u:309:VAL:HG22	2.15	0.46
1:u:137:GLN:NE2	1:u:467:LEU:HD11	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:253:GLU:HG3	1:u:540:LYS:HD3	1.96	0.46
1:v:104:CYS:SG	1:v:176:VAL:HG12	2.54	0.46
1:v:150:ASP:O	1:v:151:LEU:HB2	2.14	0.46
1:v:222:PHE:CZ	1:v:224:LEU:HD21	2.50	0.46
1:w:222:PHE:CZ	1:w:224:LEU:HD21	2.50	0.46
1:z:316:THR:HG21	1:2:275:ILE:HD11	1.97	0.46
1:1:504:LEU:HD23	1:1:509:ASN:O	2.15	0.46
1:2:504:LEU:HD23	1:2:509:ASN:O	2.15	0.46
1:3:250:VAL:HG11	1:3:413:ILE:HD11	1.97	0.46
1:5:352:ASN:HD22	1:7:276:ARG:CZ	2.27	0.46
1:7:507:GLU:HG2	1:7:517:ASP:OD1	2.15	0.46
1:8:253:GLU:HG3	1:8:540:LYS:HD3	1.96	0.46
1:A:316:THR:HG21	1:I:275:ILE:HD11	1.97	0.46
1:C:309:VAL:HG22	1:M:390:ASN:O	2.15	0.46
1:C:427:ASP:OD2	1:M:535:LYS:NZ	2.32	0.46
1:E:222:PHE:CZ	1:E:224:LEU:HD21	2.50	0.46
1:F:40:THR:HG21	1:F:238:SER:CB	2.46	0.46
1:H:504:LEU:HD23	1:H:509:ASN:O	2.15	0.46
1:K:126:MET:HB2	1:K:245:PHE:HE2	1.80	0.46
1:M:126:MET:HB2	1:M:245:PHE:HE2	1.80	0.46
1:M:253:GLU:HG3	1:M:540:LYS:HD3	1.96	0.46
1:M:505:GLY:O	1:M:511:THR:OG1	2.32	0.46
1:O:137:GLN:NE2	1:O:467:LEU:HD11	2.29	0.46
1:P:112:GLN:NE2	1:P:497:HIS:O	2.47	0.46
1:T:275:ILE:HD11	1:d:316:THR:HG21	1.97	0.46
1:U:253:GLU:HG3	1:U:540:LYS:HD3	1.96	0.46
1:X:126:MET:HB2	1:X:245:PHE:HE2	1.80	0.46
1:X:150:ASP:O	1:X:151:LEU:HB2	2.14	0.46
1:Y:507:GLU:HG2	1:Y:517:ASP:OD1	2.15	0.46
1:c:505:GLY:O	1:c:511:THR:OG1	2.32	0.46
1:d:126:MET:HB2	1:d:245:PHE:HE2	1.80	0.46
1:e:222:PHE:CZ	1:e:224:LEU:HD21	2.50	0.46
1:e:250:VAL:HG11	1:e:413:ILE:HD11	1.97	0.46
1:g:222:PHE:CZ	1:g:224:LEU:HD21	2.50	0.46
1:g:427:ASP:OD2	1:h:535:LYS:NZ	2.32	0.46
1:h:126:MET:HB2	1:h:245:PHE:HE2	1.81	0.46
1:i:316:THR:HG21	1:k:275:ILE:HD11	1.97	0.46
1:n:126:MET:HB2	1:n:245:PHE:HE2	1.80	0.46
1:n:504:LEU:HD23	1:n:509:ASN:O	2.15	0.46
1:p:222:PHE:CZ	1:p:224:LEU:HD21	2.50	0.46
1:p:507:GLU:HG2	1:p:517:ASP:OD1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:504:LEU:HD23	1:q:509:ASN:O	2.15	0.46
1:r:112:GLN:NE2	1:r:497:HIS:O	2.47	0.46
1:t:276:ARG:CZ	1:u:352:ASN:HD22	2.27	0.46
1:u:275:ILE:HD11	1:v:316:THR:HG21	1.97	0.46
1:2:112:GLN:NE2	1:2:497:HIS:O	2.47	0.46
1:3:112:GLN:NE2	1:3:497:HIS:O	2.47	0.46
1:4:126:MET:HB2	1:4:245:PHE:HE2	1.80	0.46
1:7:112:GLN:NE2	1:7:497:HIS:O	2.47	0.46
1:C:507:GLU:HG2	1:C:517:ASP:OD1	2.15	0.46
1:E:309:VAL:HG22	1:F:390:ASN:O	2.16	0.46
1:G:276:ARG:CZ	1:I:352:ASN:HD22	2.27	0.46
1:I:137:GLN:NE2	1:I:467:LEU:HD11	2.29	0.46
1:I:253:GLU:HG3	1:I:540:LYS:HD3	1.96	0.46
1:N:250:VAL:HG11	1:N:413:ILE:HD11	1.97	0.46
1:P:222:PHE:CZ	1:P:224:LEU:HD21	2.50	0.46
1:R:309:VAL:HG22	1:U:390:ASN:O	2.16	0.46
1:Y:112:GLN:NE2	1:Y:497:HIS:O	2.47	0.46
1:Z:150:ASP:O	1:Z:151:LEU:HB2	2.14	0.46
1:a:112:GLN:NE2	1:a:497:HIS:O	2.47	0.46
1:a:250:VAL:HG11	1:a:413:ILE:HD11	1.97	0.46
1:a:390:ASN:O	1:8:309:VAL:HG22	2.16	0.46
1:c:222:PHE:CZ	1:c:224:LEU:HD21	2.50	0.46
1:d:504:LEU:HD23	1:d:509:ASN:O	2.15	0.46
1:g:309:VAL:HG22	1:h:390:ASN:O	2.15	0.46
1:i:222:PHE:CZ	1:i:224:LEU:HD21	2.50	0.46
1:i:250:VAL:HG11	1:i:413:ILE:HD11	1.97	0.46
1:w:309:VAL:HG22	1:y:390:ASN:O	2.16	0.46
1:y:40:THR:HG21	1:y:238:SER:CB	2.46	0.46
1:z:112:GLN:NE2	1:z:497:HIS:O	2.47	0.46
1:z:126:MET:HB2	1:z:245:PHE:HE2	1.80	0.46
1:1:40:THR:HG21	1:1:238:SER:CB	2.46	0.46
1:6:40:THR:HG21	1:6:238:SER:CB	2.46	0.46
1:8:150:ASP:O	1:8:151:LEU:HB2	2.14	0.46
1:8:507:GLU:HG2	1:8:517:ASP:OD1	2.15	0.46
1:A:75:GLU:N	1:A:75:GLU:OE1	2.49	0.46
1:B:40:THR:HG21	1:B:238:SER:CB	2.46	0.46
1:C:222:PHE:CZ	1:C:224:LEU:HD21	2.50	0.46
1:D:275:ILE:HD11	1:N:316:THR:HG21	1.97	0.46
1:H:126:MET:HB2	1:H:245:PHE:HE2	1.80	0.46
1:I:507:GLU:HG2	1:I:517:ASP:OD1	2.15	0.46
1:J:112:GLN:NE2	1:J:497:HIS:O	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:333:GLY:HA2	1:J:337:PHE:HE2	1.81	0.46
1:L:126:MET:HB2	1:L:245:PHE:HE2	1.80	0.46
1:M:222:PHE:CZ	1:M:224:LEU:HD21	2.50	0.46
1:N:222:PHE:CZ	1:N:224:LEU:HD21	2.50	0.46
1:O:390:ASN:O	1:m:309:VAL:HG22	2.16	0.46
1:S:112:GLN:NE2	1:S:497:HIS:O	2.47	0.46
1:U:150:ASP:O	1:U:151:LEU:HB2	2.14	0.46
1:U:222:PHE:CZ	1:U:224:LEU:HD21	2.50	0.46
1:W:40:THR:HG21	1:W:238:SER:CB	2.46	0.46
1:g:507:GLU:HG2	1:g:517:ASP:OD1	2.15	0.46
1:h:222:PHE:CZ	1:h:224:LEU:HD21	2.50	0.46
1:h:253:GLU:HG3	1:h:540:LYS:HD3	1.96	0.46
1:i:421:CYS:N	1:i:439:ILE:O	2.42	0.46
1:j:112:GLN:NE2	1:j:497:HIS:O	2.47	0.46
1:o:126:MET:HB2	1:o:245:PHE:HE2	1.80	0.46
1:q:75:GLU:OE1	1:q:75:GLU:N	2.49	0.46
1:q:309:VAL:HG22	1:s:390:ASN:O	2.16	0.46
1:s:75:GLU:OE1	1:s:75:GLU:N	2.49	0.46
1:s:137:GLN:NE2	1:s:467:LEU:HD11	2.30	0.46
1:s:150:ASP:O	1:s:151:LEU:HB2	2.14	0.46
1:t:309:VAL:HG22	1:v:390:ASN:O	2.16	0.46
1:u:390:ASN:O	1:v:309:VAL:HG22	2.16	0.46
1:v:75:GLU:OE1	1:v:75:GLU:N	2.49	0.46
1:2:333:GLY:HA2	1:2:337:PHE:HE2	1.81	0.46
1:5:126:MET:HB2	1:5:245:PHE:HE2	1.80	0.46
1:A:309:VAL:HG22	1:I:390:ASN:O	2.16	0.46
1:C:126:MET:HB2	1:C:245:PHE:HE2	1.80	0.46
1:E:75:GLU:OE1	1:E:75:GLU:N	2.49	0.46
1:H:276:ARG:CZ	1:W:352:ASN:HD22	2.28	0.46
1:J:250:VAL:HG11	1:J:413:ILE:HD11	1.97	0.46
1:K:333:GLY:HA2	1:K:337:PHE:HE2	1.81	0.46
1:O:126:MET:HB2	1:O:245:PHE:HE2	1.80	0.46
1:Q:40:THR:HG21	1:Q:238:SER:CB	2.46	0.46
1:R:75:GLU:OE1	1:R:75:GLU:N	2.49	0.46
1:S:75:GLU:OE1	1:S:75:GLU:N	2.49	0.46
1:T:309:VAL:HG22	1:l:390:ASN:O	2.16	0.46
1:U:75:GLU:OE1	1:U:75:GLU:N	2.49	0.46
1:W:394:TYR:CE1	1:Y:320:MET:HG2	2.51	0.46
1:Z:333:GLY:HA2	1:Z:337:PHE:HE2	1.81	0.46
1:Z:507:GLU:HG2	1:Z:517:ASP:OD1	2.15	0.46
1:c:250:VAL:HG11	1:c:413:ILE:HD11	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:150:ASP:O	1:g:151:LEU:HB2	2.15	0.46
1:j:276:ARG:CZ	1:k:352:ASN:HD22	2.28	0.46
1:l:126:MET:HB2	1:l:245:PHE:HE2	1.80	0.46
1:o:150:ASP:O	1:o:151:LEU:HB2	2.15	0.46
1:q:390:ASN:O	1:r:309:VAL:HG22	2.15	0.46
1:r:75:GLU:OE1	1:r:75:GLU:N	2.49	0.46
1:s:250:VAL:HG11	1:s:413:ILE:HD11	1.97	0.46
1:u:507:GLU:HG2	1:u:517:ASP:OD1	2.15	0.46
1:w:75:GLU:N	1:w:75:GLU:OE1	2.49	0.46
1:3:309:VAL:HG22	1:4:390:ASN:O	2.15	0.46
1:4:75:GLU:OE1	1:4:75:GLU:N	2.49	0.46
1:5:390:ASN:O	1:6:309:VAL:HG22	2.15	0.46
1:6:333:GLY:HA2	1:6:337:PHE:HE2	1.81	0.46
1:6:421:CYS:N	1:6:439:ILE:O	2.42	0.46
1:A:504:LEU:HD23	1:A:509:ASN:O	2.15	0.46
1:A:507:GLU:HG2	1:A:517:ASP:OD1	2.15	0.46
1:B:333:GLY:HA2	1:B:337:PHE:HE2	1.81	0.46
1:D:276:ARG:CZ	1:N:352:ASN:HD22	2.29	0.46
1:D:352:ASN:HD22	1:P:276:ARG:CZ	2.28	0.46
1:H:253:GLU:HG3	1:H:540:LYS:HD3	1.96	0.46
1:I:504:LEU:HD23	1:I:509:ASN:O	2.15	0.46
1:K:75:GLU:OE1	1:K:75:GLU:N	2.49	0.46
1:K:507:GLU:HG2	1:K:517:ASP:OD1	2.15	0.46
1:N:75:GLU:OE1	1:N:75:GLU:N	2.49	0.46
1:N:390:ASN:O	1:P:309:VAL:HG22	2.15	0.46
1:O:333:GLY:HA2	1:O:337:PHE:HE2	1.81	0.46
1:P:40:THR:HG21	1:P:238:SER:CB	2.46	0.46
1:P:504:LEU:HD23	1:P:509:ASN:O	2.15	0.46
1:Q:75:GLU:N	1:Q:75:GLU:OE1	2.49	0.46
1:R:390:ASN:O	1:S:309:VAL:HG22	2.15	0.46
1:W:333:GLY:HA2	1:W:337:PHE:HE2	1.81	0.46
1:b:75:GLU:OE1	1:b:75:GLU:N	2.49	0.46
1:f:75:GLU:OE1	1:f:75:GLU:N	2.49	0.46
1:g:126:MET:HB2	1:g:245:PHE:HE2	1.81	0.46
1:i:75:GLU:OE1	1:i:75:GLU:N	2.49	0.46
1:i:352:ASN:HD22	1:k:276:ARG:CZ	2.29	0.46
1:i:390:ASN:O	1:j:309:VAL:HG22	2.15	0.46
1:j:40:THR:HG21	1:j:238:SER:CB	2.46	0.46
1:k:75:GLU:OE1	1:k:75:GLU:N	2.49	0.46
1:m:150:ASP:O	1:m:151:LEU:HB2	2.14	0.46
1:r:507:GLU:HG2	1:r:517:ASP:OD1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:222:PHE:CZ	1:s:224:LEU:HD21	2.50	0.46
1:v:504:LEU:HD23	1:v:509:ASN:O	2.15	0.46
1:x:40:THR:HG21	1:x:238:SER:CB	2.46	0.46
1:z:390:ASN:O	1:1:309:VAL:HG22	2.16	0.46
1:1:333:GLY:HA2	1:1:337:PHE:HE2	1.81	0.46
1:2:126:MET:HB2	1:2:245:PHE:HE2	1.80	0.46
1:3:126:MET:HB2	1:3:245:PHE:HE2	1.80	0.46
1:5:150:ASP:O	1:5:151:LEU:HB2	2.14	0.46
1:6:276:ARG:CZ	1:7:352:ASN:HD22	2.28	0.46
1:8:333:GLY:HA2	1:8:337:PHE:HE2	1.81	0.46
1:B:309:VAL:HG22	1:L:390:ASN:O	2.16	0.46
1:B:390:ASN:O	1:J:309:VAL:HG22	2.15	0.46
1:C:150:ASP:O	1:C:151:LEU:HB2	2.15	0.46
1:D:75:GLU:N	1:D:75:GLU:OE1	2.49	0.46
1:H:75:GLU:OE1	1:H:75:GLU:N	2.49	0.46
1:H:150:ASP:O	1:H:151:LEU:HB2	2.15	0.46
1:I:126:MET:HB2	1:I:245:PHE:HE2	1.80	0.46
1:J:126:MET:HB2	1:J:245:PHE:HE2	1.81	0.46
1:J:390:ASN:O	1:L:309:VAL:HG22	2.16	0.46
1:K:390:ASN:O	1:a:309:VAL:HG22	2.16	0.46
1:L:333:GLY:HA2	1:L:337:PHE:HE2	1.81	0.46
1:M:75:GLU:OE1	1:M:75:GLU:N	2.49	0.46
1:M:504:LEU:HD23	1:M:509:ASN:O	2.15	0.46
1:N:421:CYS:N	1:N:439:ILE:O	2.42	0.46
1:U:507:GLU:HG2	1:U:517:ASP:OD1	2.15	0.46
1:V:333:GLY:HA2	1:V:337:PHE:HE2	1.81	0.46
1:a:75:GLU:N	1:a:75:GLU:OE1	2.49	0.46
1:h:75:GLU:OE1	1:h:75:GLU:N	2.49	0.46
1:j:333:GLY:HA2	1:j:337:PHE:HE2	1.81	0.46
1:j:504:LEU:HD23	1:j:509:ASN:O	2.15	0.46
1:l:333:GLY:HA2	1:l:337:PHE:HE2	1.81	0.46
1:o:504:LEU:HD23	1:o:509:ASN:O	2.15	0.46
1:s:507:GLU:HG2	1:s:517:ASP:OD1	2.15	0.46
1:u:504:LEU:HD23	1:u:509:ASN:O	2.15	0.46
1:x:75:GLU:OE1	1:x:75:GLU:N	2.49	0.46
1:x:421:CYS:N	1:x:439:ILE:O	2.42	0.46
1:z:333:GLY:HA2	1:z:337:PHE:HE2	1.81	0.46
1:2:92:THR:OG1	1:2:190:TYR:O	2.32	0.46
1:3:75:GLU:OE1	1:3:75:GLU:N	2.49	0.46
1:4:333:GLY:HA2	1:4:337:PHE:HE2	1.81	0.46
1:5:75:GLU:OE1	1:5:75:GLU:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:253:GLU:HG3	1:5:540:LYS:HD3	1.96	0.46
1:8:75:GLU:OE1	1:8:75:GLU:N	2.49	0.46
1:D:222:PHE:CZ	1:D:224:LEU:HD21	2.50	0.46
1:D:309:VAL:HG22	1:P:390:ASN:O	2.16	0.46
1:D:333:GLY:HA2	1:D:337:PHE:HE2	1.81	0.46
1:L:40:THR:HG21	1:L:238:SER:CB	2.46	0.46
1:L:75:GLU:N	1:L:75:GLU:OE1	2.49	0.46
1:M:333:GLY:HA2	1:M:337:PHE:HE2	1.81	0.46
1:O:222:PHE:CZ	1:O:224:LEU:HD21	2.50	0.46
1:P:75:GLU:OE1	1:P:75:GLU:N	2.49	0.46
1:S:333:GLY:HA2	1:S:337:PHE:HE2	1.81	0.46
1:S:507:GLU:HG2	1:S:517:ASP:OD1	2.15	0.46
1:T:150:ASP:O	1:T:151:LEU:HB2	2.14	0.46
1:U:250:VAL:HG11	1:U:413:ILE:HD11	1.97	0.46
1:X:112:GLN:NE2	1:X:497:HIS:O	2.47	0.46
1:X:504:LEU:HD23	1:X:509:ASN:O	2.15	0.46
1:X:507:GLU:HG2	1:X:517:ASP:OD1	2.15	0.46
1:Z:75:GLU:OE1	1:Z:75:GLU:N	2.49	0.46
1:a:126:MET:HB2	1:a:245:PHE:HE2	1.80	0.46
1:a:333:GLY:HA2	1:a:337:PHE:HE2	1.81	0.46
1:c:421:CYS:N	1:c:439:ILE:O	2.42	0.46
1:h:504:LEU:HD23	1:h:509:ASN:O	2.15	0.46
1:k:333:GLY:HA2	1:k:337:PHE:HE2	1.81	0.46
1:l:222:PHE:CZ	1:l:224:LEU:HD21	2.50	0.46
1:m:75:GLU:OE1	1:m:75:GLU:N	2.49	0.46
1:o:112:GLN:NE2	1:o:497:HIS:O	2.47	0.46
1:o:507:GLU:HG2	1:o:517:ASP:OD1	2.15	0.46
1:p:126:MET:HB2	1:p:245:PHE:HE2	1.80	0.46
1:t:75:GLU:N	1:t:75:GLU:OE1	2.49	0.46
1:u:126:MET:HB2	1:u:245:PHE:HE2	1.80	0.46
1:v:507:GLU:HG2	1:v:517:ASP:OD1	2.15	0.46
1:y:137:GLN:NE2	1:y:467:LEU:HD11	2.29	0.46
1:z:40:THR:HG21	1:z:238:SER:CB	2.46	0.46
1:z:75:GLU:OE1	1:z:75:GLU:N	2.49	0.46
1:1:390:ASN:O	1:2:309:VAL:HG22	2.15	0.46
1:2:250:VAL:HG11	1:2:413:ILE:HD11	1.97	0.46
1:4:507:GLU:HG2	1:4:517:ASP:OD1	2.15	0.46
1:6:390:ASN:O	1:7:309:VAL:HG22	2.15	0.46
1:A:40:THR:HG21	1:A:238:SER:CB	2.46	0.46
1:A:390:ASN:O	1:G:309:VAL:HG22	2.16	0.46
1:C:333:GLY:HA2	1:C:337:PHE:HE2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:390:ASN:O	1:N:309:VAL:HG22	2.16	0.46
1:G:40:THR:HG21	1:G:238:SER:CB	2.46	0.46
1:G:75:GLU:OE1	1:G:75:GLU:N	2.49	0.46
1:G:333:GLY:HA2	1:G:337:PHE:HE2	1.81	0.46
1:H:316:THR:HG21	1:Y:275:ILE:HD11	1.98	0.46
1:P:333:GLY:HA2	1:P:337:PHE:HE2	1.81	0.46
1:Q:126:MET:HB2	1:Q:245:PHE:HE2	1.80	0.46
1:Q:410:ARG:NH2	1:Q:434:PRO:HD2	2.31	0.46
1:Q:421:CYS:N	1:Q:439:ILE:O	2.42	0.46
1:T:75:GLU:N	1:T:75:GLU:OE1	2.49	0.46
1:U:126:MET:HB2	1:U:245:PHE:HE2	1.80	0.46
1:V:126:MET:HB2	1:V:245:PHE:HE2	1.80	0.46
1:W:421:CYS:N	1:W:439:ILE:O	2.42	0.46
1:a:410:ARG:NH2	1:a:434:PRO:HD2	2.31	0.46
1:c:275:ILE:HD11	1:o:316:THR:HG21	1.96	0.46
1:d:75:GLU:N	1:d:75:GLU:OE1	2.49	0.46
1:e:504:LEU:HD23	1:e:509:ASN:O	2.15	0.46
1:g:40:THR:HG21	1:g:238:SER:CB	2.46	0.46
1:g:333:GLY:HA2	1:g:337:PHE:HE2	1.81	0.46
1:h:333:GLY:HA2	1:h:337:PHE:HE2	1.81	0.46
1:k:222:PHE:CZ	1:k:224:LEU:HD21	2.50	0.46
1:n:75:GLU:OE1	1:n:75:GLU:N	2.49	0.46
1:p:333:GLY:HA2	1:p:337:PHE:HE2	1.81	0.46
1:r:333:GLY:HA2	1:r:337:PHE:HE2	1.81	0.46
1:t:333:GLY:HA2	1:t:337:PHE:HE2	1.81	0.46
1:v:40:THR:HG21	1:v:238:SER:CB	2.46	0.46
1:x:126:MET:HB2	1:x:245:PHE:HE2	1.80	0.46
1:x:410:ARG:NH2	1:x:434:PRO:HD2	2.31	0.46
1:z:309:VAL:HG22	1:2:390:ASN:O	2.16	0.46
1:3:410:ARG:NH2	1:3:434:PRO:HD2	2.31	0.46
1:5:410:ARG:NH2	1:5:434:PRO:HD2	2.31	0.46
1:6:410:ARG:NH2	1:6:434:PRO:HD2	2.31	0.46
1:C:40:THR:HG21	1:C:238:SER:CB	2.46	0.45
1:D:403:PHE:CE1	1:N:303:LEU:HD13	2.52	0.45
1:F:137:GLN:NE2	1:F:467:LEU:HD11	2.29	0.45
1:H:309:VAL:HG22	1:Y:390:ASN:O	2.17	0.45
1:J:75:GLU:OE1	1:J:75:GLU:N	2.49	0.45
1:R:410:ARG:NH2	1:R:434:PRO:HD2	2.31	0.45
1:R:505:GLY:O	1:R:511:THR:OG1	2.32	0.45
1:S:126:MET:HB2	1:S:245:PHE:HE2	1.80	0.45
1:W:410:ARG:NH2	1:W:434:PRO:HD2	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:410:ARG:NH2	1:b:434:PRO:HD2	2.31	0.45
1:b:504:LEU:HD23	1:b:509:ASN:O	2.15	0.45
1:c:126:MET:HB2	1:c:245:PHE:HE2	1.80	0.45
1:c:504:LEU:HD23	1:c:509:ASN:O	2.15	0.45
1:e:126:MET:HB2	1:e:245:PHE:HE2	1.80	0.45
1:f:410:ARG:NH2	1:f:434:PRO:HD2	2.31	0.45
1:f:504:LEU:HD23	1:f:509:ASN:O	2.15	0.45
1:i:309:VAL:HG22	1:k:390:ASN:O	2.16	0.45
1:j:75:GLU:OE1	1:j:75:GLU:N	2.49	0.45
1:j:390:ASN:O	1:k:309:VAL:HG22	2.16	0.45
1:q:410:ARG:NH2	1:q:434:PRO:HD2	2.31	0.45
1:t:40:THR:HG21	1:t:238:SER:CB	2.46	0.45
1:7:40:THR:HG21	1:7:238:SER:CB	2.46	0.45
1:8:504:LEU:HD23	1:8:509:ASN:O	2.15	0.45
1:B:421:CYS:N	1:B:439:ILE:O	2.42	0.45
1:E:112:GLN:NE2	1:E:497:HIS:O	2.47	0.45
1:H:410:ARG:NH2	1:H:434:PRO:HD2	2.31	0.45
1:I:75:GLU:N	1:I:75:GLU:OE1	2.49	0.45
1:R:40:THR:HG21	1:R:238:SER:CB	2.46	0.45
1:S:390:ASN:O	1:U:309:VAL:HG22	2.16	0.45
1:T:410:ARG:NH2	1:T:434:PRO:HD2	2.31	0.45
1:W:276:ARG:CZ	1:Y:352:ASN:HD22	2.29	0.45
1:X:316:THR:HG21	1:e:275:ILE:HD11	1.97	0.45
1:Y:40:THR:HG21	1:Y:238:SER:CB	2.46	0.45
1:Y:504:LEU:HD23	1:Y:509:ASN:O	2.15	0.45
1:Z:92:THR:OG1	1:Z:190:TYR:O	2.32	0.45
1:Z:504:LEU:HD23	1:Z:509:ASN:O	2.15	0.45
1:c:309:VAL:HG22	1:p:390:ASN:O	2.16	0.45
1:i:303:LEU:HD13	1:k:403:PHE:CE1	2.52	0.45
1:q:40:THR:HG21	1:q:238:SER:CB	2.46	0.45
1:q:505:GLY:O	1:q:511:THR:OG1	2.32	0.45
1:r:40:THR:HG21	1:r:238:SER:CB	2.46	0.45
1:s:126:MET:HB2	1:s:245:PHE:HE2	1.80	0.45
1:u:75:GLU:OE1	1:u:75:GLU:N	2.49	0.45
1:1:421:CYS:N	1:1:439:ILE:O	2.42	0.45
1:2:75:GLU:OE1	1:2:75:GLU:N	2.49	0.45
1:3:333:GLY:HA2	1:3:337:PHE:HE2	1.81	0.45
1:7:504:LEU:HD23	1:7:509:ASN:O	2.15	0.45
1:8:40:THR:HG21	1:8:238:SER:CB	2.46	0.45
1:A:333:GLY:HA2	1:A:337:PHE:HE2	1.81	0.45
1:F:309:VAL:HG22	1:Q:390:ASN:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:333:GLY:HA2	1:F:337:PHE:HE2	1.81	0.45
1:L:250:VAL:HG11	1:L:413:ILE:HD11	1.97	0.45
1:N:40:THR:HG21	1:N:238:SER:CB	2.46	0.45
1:N:410:ARG:NH2	1:N:434:PRO:HD2	2.31	0.45
1:P:126:MET:HB2	1:P:245:PHE:HE2	1.80	0.45
1:Q:333:GLY:HA2	1:Q:337:PHE:HE2	1.81	0.45
1:S:40:THR:HG21	1:S:238:SER:CB	2.46	0.45
1:S:410:ARG:NH2	1:S:434:PRO:HD2	2.32	0.45
1:X:410:ARG:NH2	1:X:434:PRO:HD2	2.31	0.45
1:Z:40:THR:HG21	1:Z:238:SER:CB	2.46	0.45
1:d:303:LEU:HD23	1:d:319:PHE:CZ	2.52	0.45
1:e:421:CYS:N	1:e:439:ILE:O	2.42	0.45
1:i:410:ARG:NH2	1:i:434:PRO:HD2	2.31	0.45
1:m:410:ARG:NH2	1:m:434:PRO:HD2	2.31	0.45
1:r:126:MET:HB2	1:r:245:PHE:HE2	1.80	0.45
1:r:390:ASN:O	1:s:309:VAL:HG22	2.16	0.45
1:r:410:ARG:NH2	1:r:434:PRO:HD2	2.32	0.45
1:v:333:GLY:HA2	1:v:337:PHE:HE2	1.81	0.45
1:l:75:GLU:N	1:l:75:GLU:OE1	2.49	0.45
1:l:126:MET:HB2	1:l:245:PHE:HE2	1.81	0.45
1:6:75:GLU:N	1:6:75:GLU:OE1	2.49	0.45
1:B:75:GLU:OE1	1:B:75:GLU:N	2.49	0.45
1:D:320:MET:HG2	1:P:394:TYR:CE1	2.52	0.45
1:E:126:MET:HB2	1:E:245:PHE:HE2	1.80	0.45
1:G:303:LEU:HD23	1:G:319:PHE:CZ	2.52	0.45
1:I:333:GLY:HA2	1:I:337:PHE:HE2	1.81	0.45
1:M:112:GLN:NE2	1:M:497:HIS:O	2.47	0.45
1:N:333:GLY:HA2	1:N:337:PHE:HE2	1.81	0.45
1:O:75:GLU:OE1	1:O:75:GLU:N	2.49	0.45
1:R:126:MET:HB2	1:R:245:PHE:HE2	1.81	0.45
1:R:333:GLY:HA2	1:R:337:PHE:HE2	1.81	0.45
1:T:390:ASN:O	1:d:309:VAL:HG22	2.16	0.45
1:V:390:ASN:O	1:e:309:VAL:HG22	2.16	0.45
1:b:126:MET:HB2	1:b:245:PHE:HE2	1.80	0.45
1:i:40:THR:HG21	1:i:238:SER:CB	2.46	0.45
1:i:333:GLY:HA2	1:i:337:PHE:HE2	1.81	0.45
1:j:126:MET:HB2	1:j:245:PHE:HE2	1.80	0.45
1:l:40:THR:HG21	1:l:238:SER:CB	2.46	0.45
1:l:75:GLU:N	1:l:75:GLU:OE1	2.49	0.45
1:m:126:MET:HB2	1:m:245:PHE:HE2	1.80	0.45
1:n:303:LEU:HD23	1:n:319:PHE:CZ	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:410:ARG:NH2	1:o:434:PRO:HD2	2.31	0.45
1:u:333:GLY:HA2	1:u:337:PHE:HE2	1.81	0.45
1:w:112:GLN:NE2	1:w:497:HIS:O	2.47	0.45
1:x:333:GLY:HA2	1:x:337:PHE:HE2	1.81	0.45
1:y:333:GLY:HA2	1:y:337:PHE:HE2	1.81	0.45
1:z:250:VAL:HG11	1:z:413:ILE:HD11	1.97	0.45
1:2:410:ARG:NH2	1:2:434:PRO:HD2	2.32	0.45
1:2:505:GLY:O	1:2:511:THR:OG1	2.32	0.45
1:8:92:THR:OG1	1:8:190:TYR:O	2.32	0.45
1:B:126:MET:HB2	1:B:245:PHE:HE2	1.81	0.45
1:C:303:LEU:HD23	1:C:319:PHE:CZ	2.52	0.45
1:E:410:ARG:NH2	1:E:434:PRO:HD2	2.31	0.45
1:H:390:ASN:O	1:W:309:VAL:HG22	2.16	0.45
1:J:410:ARG:NH2	1:J:434:PRO:HD2	2.32	0.45
1:J:505:GLY:O	1:J:511:THR:OG1	2.32	0.45
1:N:126:MET:HB2	1:N:245:PHE:HE2	1.80	0.45
1:O:40:THR:HG21	1:O:238:SER:CB	2.46	0.45
1:P:303:LEU:HD23	1:P:319:PHE:CZ	2.52	0.45
1:S:389:GLY:HA2	1:S:394:TYR:HA	1.99	0.45
1:W:75:GLU:OE1	1:W:75:GLU:N	2.49	0.45
1:W:504:LEU:HD23	1:W:509:ASN:O	2.15	0.45
1:a:303:LEU:HD23	1:a:319:PHE:CZ	2.52	0.45
1:e:333:GLY:HA2	1:e:337:PHE:HE2	1.81	0.45
1:g:303:LEU:HD23	1:g:319:PHE:CZ	2.52	0.45
1:h:112:GLN:NE2	1:h:497:HIS:O	2.47	0.45
1:i:126:MET:HB2	1:i:245:PHE:HE2	1.80	0.45
1:j:394:TYR:CE1	1:k:320:MET:HG2	2.52	0.45
1:k:40:THR:HG21	1:k:238:SER:CB	2.46	0.45
1:m:40:THR:HG21	1:m:238:SER:CB	2.46	0.45
1:m:390:ASN:O	1:n:309:VAL:HG22	2.16	0.45
1:q:333:GLY:HA2	1:q:337:PHE:HE2	1.81	0.45
1:t:303:LEU:HD23	1:t:319:PHE:CZ	2.52	0.45
1:w:126:MET:HB2	1:w:245:PHE:HE2	1.80	0.45
1:w:410:ARG:NH2	1:w:434:PRO:HD2	2.31	0.45
1:3:303:LEU:HD23	1:3:319:PHE:CZ	2.52	0.45
1:5:320:MET:HG2	1:7:394:TYR:CE1	2.52	0.45
1:6:504:LEU:HD23	1:6:509:ASN:O	2.15	0.45
1:A:410:ARG:NH2	1:A:434:PRO:HD2	2.31	0.45
1:B:303:LEU:HD23	1:B:319:PHE:CZ	2.52	0.45
1:E:389:GLY:HA2	1:E:394:TYR:HA	1.99	0.45
1:F:452:MET:HE1	1:F:471:CYS:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:452:MET:HE1	1:G:471:CYS:CB	2.47	0.45
1:J:303:LEU:HD23	1:J:319:PHE:CZ	2.52	0.45
1:J:389:GLY:HA2	1:J:394:TYR:HA	1.99	0.45
1:J:452:MET:HE1	1:J:471:CYS:CB	2.47	0.45
1:M:40:THR:HG21	1:M:238:SER:CB	2.46	0.45
1:T:126:MET:HB2	1:T:245:PHE:HE2	1.80	0.45
1:V:75:GLU:OE1	1:V:75:GLU:N	2.49	0.45
1:Y:75:GLU:N	1:Y:75:GLU:OE1	2.49	0.45
1:Y:303:LEU:HD23	1:Y:319:PHE:CZ	2.52	0.45
1:c:333:GLY:HA2	1:c:337:PHE:HE2	1.81	0.45
1:c:452:MET:HE1	1:c:471:CYS:CB	2.47	0.45
1:d:410:ARG:NH2	1:d:434:PRO:HD2	2.31	0.45
1:e:452:MET:HE1	1:e:471:CYS:CB	2.47	0.45
1:f:126:MET:HB2	1:f:245:PHE:HE2	1.80	0.45
1:h:40:THR:HG21	1:h:238:SER:CB	2.46	0.45
1:j:303:LEU:HD23	1:j:319:PHE:CZ	2.52	0.45
1:q:126:MET:HB2	1:q:245:PHE:HE2	1.81	0.45
1:r:389:GLY:HA2	1:r:394:TYR:HA	1.99	0.45
1:t:410:ARG:NH2	1:t:434:PRO:HD2	2.31	0.45
1:v:410:ARG:NH2	1:v:434:PRO:HD2	2.31	0.45
1:w:389:GLY:HA2	1:w:394:TYR:HA	1.99	0.45
1:x:390:ASN:O	1:y:309:VAL:HG22	2.16	0.45
1:y:452:MET:HE1	1:y:471:CYS:CB	2.47	0.45
1:2:389:GLY:HA2	1:2:394:TYR:HA	1.99	0.45
1:6:92:THR:OG1	1:6:190:TYR:O	2.32	0.45
1:8:126:MET:HB2	1:8:245:PHE:HE2	1.80	0.45
1:B:250:VAL:HG11	1:B:413:ILE:HD11	1.97	0.45
1:D:40:THR:HG21	1:D:238:SER:CB	2.46	0.45
1:D:410:ARG:NH2	1:D:434:PRO:HD2	2.31	0.45
1:F:75:GLU:N	1:F:75:GLU:OE1	2.49	0.45
1:F:126:MET:HB2	1:F:245:PHE:HE2	1.80	0.45
1:G:410:ARG:NH2	1:G:434:PRO:HD2	2.31	0.45
1:G:505:GLY:O	1:G:511:THR:OG1	2.32	0.45
1:H:40:THR:HG21	1:H:238:SER:CB	2.46	0.45
1:H:92:THR:OG1	1:H:190:TYR:O	2.32	0.45
1:I:410:ARG:NH2	1:I:434:PRO:HD2	2.31	0.45
1:R:389:GLY:HA2	1:R:394:TYR:HA	1.99	0.45
1:W:389:GLY:HA2	1:W:394:TYR:HA	1.99	0.45
1:W:505:GLY:O	1:W:511:THR:OG1	2.32	0.45
1:X:303:LEU:HD23	1:X:319:PHE:CZ	2.52	0.45
1:X:309:VAL:HG22	1:e:390:ASN:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:390:ASN:O	1:l:309:VAL:HG22	2.16	0.45
1:n:410:ARG:NH2	1:n:434:PRO:HD2	2.31	0.45
1:p:75:GLU:OE1	1:p:75:GLU:N	2.49	0.45
1:q:389:GLY:HA2	1:q:394:TYR:HA	1.99	0.45
1:t:452:MET:HE1	1:t:471:CYS:CB	2.47	0.45
1:w:92:THR:OG1	1:w:190:TYR:O	2.32	0.45
1:y:303:LEU:HD23	1:y:319:PHE:CZ	2.52	0.45
1:1:303:LEU:HD23	1:1:319:PHE:CZ	2.52	0.45
1:2:303:LEU:HD23	1:2:319:PHE:CZ	2.52	0.45
1:2:452:MET:HE1	1:2:471:CYS:CB	2.47	0.45
1:4:303:LEU:HD23	1:4:319:PHE:CZ	2.52	0.45
1:5:40:THR:HG21	1:5:238:SER:CB	2.46	0.45
1:5:92:THR:OG1	1:5:190:TYR:O	2.32	0.45
1:7:303:LEU:HD23	1:7:319:PHE:CZ	2.52	0.45
1:A:303:LEU:HD23	1:A:319:PHE:CZ	2.52	0.45
1:F:303:LEU:HD23	1:F:319:PHE:CZ	2.52	0.45
1:K:303:LEU:HD23	1:K:319:PHE:CZ	2.52	0.45
1:O:505:GLY:O	1:O:511:THR:OG1	2.32	0.45
1:T:303:LEU:HD23	1:T:319:PHE:CZ	2.52	0.45
1:X:75:GLU:OE1	1:X:75:GLU:N	2.49	0.45
1:Z:126:MET:HB2	1:Z:245:PHE:HE2	1.80	0.45
1:Z:505:GLY:O	1:Z:511:THR:OG1	2.32	0.45
1:c:75:GLU:OE1	1:c:75:GLU:N	2.49	0.45
1:c:303:LEU:HD23	1:c:319:PHE:CZ	2.52	0.45
1:c:410:ARG:NH2	1:c:434:PRO:HD2	2.32	0.45
1:d:333:GLY:HA2	1:d:337:PHE:HE2	1.81	0.45
1:e:75:GLU:OE1	1:e:75:GLU:N	2.49	0.45
1:e:303:LEU:HD23	1:e:319:PHE:CZ	2.52	0.45
1:k:303:LEU:HD23	1:k:319:PHE:CZ	2.52	0.45
1:k:410:ARG:NH2	1:k:434:PRO:HD2	2.31	0.45
1:n:333:GLY:HA2	1:n:337:PHE:HE2	1.81	0.45
1:o:303:LEU:HD23	1:o:319:PHE:CZ	2.52	0.45
1:p:505:GLY:O	1:p:511:THR:OG1	2.32	0.45
1:t:505:GLY:O	1:t:511:THR:OG1	2.32	0.45
1:u:410:ARG:NH2	1:u:434:PRO:HD2	2.31	0.45
1:v:303:LEU:HD23	1:v:319:PHE:CZ	2.52	0.45
1:v:389:GLY:HA2	1:v:394:TYR:HA	1.99	0.45
1:3:421:CYS:N	1:3:439:ILE:O	2.42	0.45
1:6:389:GLY:HA2	1:6:394:TYR:HA	1.99	0.45
1:6:505:GLY:O	1:6:511:THR:OG1	2.32	0.45
1:7:75:GLU:OE1	1:7:75:GLU:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:389:GLY:HA2	1:A:394:TYR:HA	1.99	0.45
1:B:452:MET:HE1	1:B:471:CYS:CB	2.47	0.45
1:D:303:LEU:HD23	1:D:319:PHE:CZ	2.52	0.45
1:F:271:ARG:HE	1:F:294:PRO:HG2	1.82	0.45
1:I:40:THR:HG21	1:I:238:SER:CB	2.46	0.45
1:K:271:ARG:HE	1:K:294:PRO:HG2	1.82	0.45
1:M:452:MET:HE1	1:M:471:CYS:CB	2.47	0.45
1:O:309:VAL:HG22	1:n:390:ASN:O	2.16	0.45
1:P:410:ARG:NH2	1:P:434:PRO:HD2	2.31	0.45
1:W:452:MET:HE1	1:W:471:CYS:CB	2.47	0.45
1:X:333:GLY:HA2	1:X:337:PHE:HE2	1.81	0.45
1:a:421:CYS:N	1:a:439:ILE:O	2.42	0.45
1:c:390:ASN:O	1:o:309:VAL:HG22	2.16	0.45
1:f:389:GLY:HA2	1:f:394:TYR:HA	1.99	0.45
1:h:452:MET:HE1	1:h:471:CYS:CB	2.47	0.45
1:m:303:LEU:HD23	1:m:319:PHE:CZ	2.52	0.45
1:m:333:GLY:HA2	1:m:337:PHE:HE2	1.81	0.45
1:o:75:GLU:N	1:o:75:GLU:OE1	2.49	0.45
1:o:333:GLY:HA2	1:o:337:PHE:HE2	1.81	0.45
1:y:75:GLU:OE1	1:y:75:GLU:N	2.49	0.45
1:y:126:MET:HB2	1:y:245:PHE:HE2	1.80	0.45
1:1:250:VAL:HG11	1:1:413:ILE:HD11	1.97	0.45
1:3:40:THR:HG21	1:3:238:SER:CB	2.46	0.45
1:4:271:ARG:HE	1:4:294:PRO:HG2	1.82	0.45
1:7:333:GLY:HA2	1:7:337:PHE:HE2	1.81	0.45
1:C:75:GLU:OE1	1:C:75:GLU:N	2.49	0.45
1:C:410:ARG:NH2	1:C:434:PRO:HD2	2.31	0.45
1:C:452:MET:HE1	1:C:471:CYS:CB	2.47	0.45
1:E:198:GLU:HA	1:E:201:ASP:HB2	2.00	0.45
1:H:303:LEU:HD23	1:H:319:PHE:CZ	2.52	0.45
1:H:389:GLY:HA2	1:H:394:TYR:HA	1.99	0.45
1:N:394:TYR:CE1	1:P:320:MET:HG2	2.52	0.45
1:Q:303:LEU:HD23	1:Q:319:PHE:CZ	2.52	0.45
1:S:271:ARG:HE	1:S:294:PRO:HG2	1.82	0.45
1:T:389:GLY:HA2	1:T:394:TYR:HA	1.99	0.45
1:V:505:GLY:O	1:V:511:THR:OG1	2.32	0.45
1:Z:112:GLN:NE2	1:Z:497:HIS:O	2.47	0.45
1:Z:271:ARG:HE	1:Z:294:PRO:HG2	1.82	0.45
1:Z:389:GLY:HA2	1:Z:394:TYR:HA	1.99	0.45
1:b:389:GLY:HA2	1:b:394:TYR:HA	1.99	0.45
1:d:96:TYR:OH	1:d:175:ASP:OD2	2.33	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:410:ARG:NH2	1:e:434:PRO:HD2	2.32	0.45
1:g:112:GLN:NE2	1:g:497:HIS:O	2.47	0.45
1:i:389:GLY:HA2	1:i:394:TYR:HA	1.99	0.45
1:j:410:ARG:NH2	1:j:434:PRO:HD2	2.31	0.45
1:l:505:GLY:O	1:l:511:THR:OG1	2.32	0.45
1:m:389:GLY:HA2	1:m:394:TYR:HA	1.99	0.45
1:s:303:LEU:HD23	1:s:319:PHE:CZ	2.52	0.45
1:u:303:LEU:HD23	1:u:319:PHE:CZ	2.52	0.45
1:v:271:ARG:HE	1:v:294:PRO:HG2	1.82	0.45
1:w:198:GLU:HA	1:w:201:ASP:HB2	2.00	0.45
1:w:333:GLY:HA2	1:w:337:PHE:HE2	1.81	0.45
1:1:452:MET:HE1	1:1:471:CYS:CB	2.47	0.45
1:3:427:ASP:OD2	1:4:535:LYS:NZ	2.31	0.45
1:4:410:ARG:NH2	1:4:434:PRO:HD2	2.32	0.45
1:5:303:LEU:HD23	1:5:319:PHE:CZ	2.52	0.45
1:5:333:GLY:HA2	1:5:337:PHE:HE2	1.81	0.45
1:5:389:GLY:HA2	1:5:394:TYR:HA	1.99	0.45
1:6:452:MET:HE1	1:6:471:CYS:CB	2.47	0.45
1:8:389:GLY:HA2	1:8:394:TYR:HA	1.99	0.45
1:A:271:ARG:HE	1:A:294:PRO:HG2	1.82	0.44
1:A:403:PHE:CE1	1:G:303:LEU:HD13	2.52	0.44
1:B:410:ARG:NH2	1:B:434:PRO:HD2	2.31	0.44
1:E:333:GLY:HA2	1:E:337:PHE:HE2	1.81	0.44
1:H:333:GLY:HA2	1:H:337:PHE:HE2	1.81	0.44
1:H:505:GLY:O	1:H:511:THR:OG1	2.32	0.44
1:I:303:LEU:HD23	1:I:319:PHE:CZ	2.52	0.44
1:I:389:GLY:HA2	1:I:394:TYR:HA	1.99	0.44
1:K:410:ARG:NH2	1:K:434:PRO:HD2	2.31	0.44
1:N:389:GLY:HA2	1:N:394:TYR:HA	1.99	0.44
1:P:198:GLU:HA	1:P:201:ASP:HB2	1.99	0.44
1:T:320:MET:HG2	1:l:394:TYR:CE1	2.53	0.44
1:T:333:GLY:HA2	1:T:337:PHE:HE2	1.81	0.44
1:U:303:LEU:HD23	1:U:319:PHE:CZ	2.52	0.44
1:Y:333:GLY:HA2	1:Y:337:PHE:HE2	1.81	0.44
1:Z:303:LEU:HD23	1:Z:319:PHE:CZ	2.52	0.44
1:Z:410:ARG:NH2	1:Z:434:PRO:HD2	2.31	0.44
1:a:40:THR:HG21	1:a:238:SER:CB	2.46	0.44
1:a:271:ARG:HE	1:a:294:PRO:HG2	1.82	0.44
1:g:75:GLU:N	1:g:75:GLU:OE1	2.49	0.44
1:i:394:TYR:CE1	1:j:320:MET:HG2	2.53	0.44
1:n:96:TYR:OH	1:n:175:ASP:OD2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:410:ARG:NH2	1:p:434:PRO:HD2	2.31	0.44
1:r:271:ARG:HE	1:r:294:PRO:HG2	1.82	0.44
1:u:40:THR:HG21	1:u:238:SER:CB	2.46	0.44
1:x:303:LEU:HD23	1:x:319:PHE:CZ	2.52	0.44
1:y:271:ARG:HE	1:y:294:PRO:HG2	1.82	0.44
1:z:410:ARG:NH2	1:z:434:PRO:HD2	2.31	0.44
1:1:198:GLU:HA	1:1:201:ASP:HB2	2.00	0.44
1:3:271:ARG:HE	1:3:294:PRO:HG2	1.82	0.44
1:6:403:PHE:CE1	1:7:303:LEU:HD13	2.52	0.44
1:8:112:GLN:NE2	1:8:497:HIS:O	2.47	0.44
1:8:271:ARG:HE	1:8:294:PRO:HG2	1.83	0.44
1:8:410:ARG:NH2	1:8:434:PRO:HD2	2.32	0.44
1:8:505:GLY:O	1:8:511:THR:OG1	2.32	0.44
1:B:198:GLU:HA	1:B:201:ASP:HB2	2.00	0.44
1:C:112:GLN:NE2	1:C:497:HIS:O	2.47	0.44
1:H:198:GLU:HA	1:H:201:ASP:HB2	2.00	0.44
1:H:403:PHE:CE1	1:W:303:LEU:HD13	2.52	0.44
1:J:198:GLU:HA	1:J:201:ASP:HB2	2.00	0.44
1:L:410:ARG:NH2	1:L:434:PRO:HD2	2.31	0.44
1:U:40:THR:HG21	1:U:238:SER:CB	2.46	0.44
1:V:410:ARG:NH2	1:V:434:PRO:HD2	2.31	0.44
1:b:271:ARG:HE	1:b:294:PRO:HG2	1.82	0.44
1:e:271:ARG:HE	1:e:294:PRO:HG2	1.82	0.44
1:g:410:ARG:NH2	1:g:434:PRO:HD2	2.31	0.44
1:g:452:MET:HE1	1:g:471:CYS:CB	2.47	0.44
1:i:505:GLY:O	1:i:511:THR:OG1	2.32	0.44
1:j:198:GLU:HA	1:j:201:ASP:HB2	1.99	0.44
1:m:271:ARG:HE	1:m:294:PRO:HG2	1.83	0.44
1:s:40:THR:HG21	1:s:238:SER:CB	2.46	0.44
1:u:389:GLY:HA2	1:u:394:TYR:HA	1.99	0.44
1:3:389:GLY:HA2	1:3:394:TYR:HA	1.99	0.44
1:8:303:LEU:HD23	1:8:319:PHE:CZ	2.52	0.44
1:B:112:GLN:NE2	1:B:497:HIS:O	2.47	0.44
1:C:390:ASN:O	1:b:309:VAL:HG22	2.16	0.44
1:D:389:GLY:HA2	1:D:394:TYR:HA	1.99	0.44
1:D:452:MET:HE1	1:D:471:CYS:CB	2.47	0.44
1:F:389:GLY:HA2	1:F:394:TYR:HA	1.99	0.44
1:K:505:GLY:O	1:K:511:THR:OG1	2.32	0.44
1:L:303:LEU:HD23	1:L:319:PHE:CZ	2.52	0.44
1:O:394:TYR:CE1	1:m:320:MET:HG2	2.53	0.44
1:O:410:ARG:NH2	1:O:434:PRO:HD2	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:303:LEU:HD23	1:S:319:PHE:CZ	2.52	0.44
1:S:452:MET:HE1	1:S:471:CYS:CB	2.47	0.44
1:T:40:THR:HG21	1:T:238:SER:CB	2.46	0.44
1:T:271:ARG:HE	1:T:294:PRO:HG2	1.83	0.44
1:V:452:MET:HE1	1:V:471:CYS:CB	2.47	0.44
1:W:198:GLU:HA	1:W:201:ASP:HB2	2.00	0.44
1:b:333:GLY:HA2	1:b:337:PHE:HE2	1.81	0.44
1:c:271:ARG:HE	1:c:294:PRO:HG2	1.83	0.44
1:d:198:GLU:HA	1:d:201:ASP:HB2	2.00	0.44
1:f:333:GLY:HA2	1:f:337:PHE:HE2	1.81	0.44
1:i:303:LEU:HD23	1:i:319:PHE:CZ	2.52	0.44
1:k:389:GLY:HA2	1:k:394:TYR:HA	1.99	0.44
1:k:452:MET:HE1	1:k:471:CYS:CB	2.47	0.44
1:l:410:ARG:NH2	1:l:434:PRO:HD2	2.31	0.44
1:n:198:GLU:HA	1:n:201:ASP:HB2	2.00	0.44
1:r:452:MET:HE1	1:r:471:CYS:CB	2.47	0.44
1:y:389:GLY:HA2	1:y:394:TYR:HA	1.99	0.44
1:z:303:LEU:HD23	1:z:319:PHE:CZ	2.52	0.44
1:1:410:ARG:NH2	1:1:434:PRO:HD2	2.31	0.44
1:2:198:GLU:HA	1:2:201:ASP:HB2	2.00	0.44
1:5:198:GLU:HA	1:5:201:ASP:HB2	2.00	0.44
1:5:505:GLY:O	1:5:511:THR:OG1	2.32	0.44
1:6:198:GLU:HA	1:6:201:ASP:HB2	2.00	0.44
1:A:198:GLU:HA	1:A:201:ASP:HB2	2.00	0.44
1:B:320:MET:HG2	1:L:394:TYR:CE1	2.53	0.44
1:E:505:GLY:O	1:E:511:THR:OG1	2.32	0.44
1:F:198:GLU:HA	1:F:201:ASP:HB2	2.00	0.44
1:G:271:ARG:HE	1:G:294:PRO:HG2	1.82	0.44
1:H:320:MET:HG2	1:Y:394:TYR:CE1	2.53	0.44
1:J:271:ARG:HE	1:J:294:PRO:HG2	1.82	0.44
1:L:271:ARG:HE	1:L:294:PRO:HG2	1.82	0.44
1:M:303:LEU:HD23	1:M:319:PHE:CZ	2.52	0.44
1:N:271:ARG:HE	1:N:294:PRO:HG2	1.82	0.44
1:N:535:LYS:NZ	1:P:427:ASP:OD2	2.31	0.44
1:S:403:PHE:CE1	1:U:303:LEU:HD13	2.53	0.44
1:S:489:LYS:O	1:U:227:ASN:ND2	2.51	0.44
1:U:410:ARG:NH2	1:U:434:PRO:HD2	2.31	0.44
1:W:394:TYR:HD2	1:Y:334:ALA:HB1	1.83	0.44
1:X:303:LEU:HD13	1:e:403:PHE:CE1	2.52	0.44
1:a:389:GLY:HA2	1:a:394:TYR:HA	1.99	0.44
1:c:403:PHE:CE1	1:o:303:LEU:HD13	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:271:ARG:HE	1:f:294:PRO:HG2	1.83	0.44
1:f:309:VAL:HG22	1:g:390:ASN:O	2.16	0.44
1:i:271:ARG:HE	1:i:294:PRO:HG2	1.82	0.44
1:r:303:LEU:HD23	1:r:319:PHE:CZ	2.52	0.44
1:r:403:PHE:CE1	1:s:303:LEU:HD13	2.53	0.44
1:r:489:LYS:O	1:s:227:ASN:ND2	2.51	0.44
1:v:198:GLU:HA	1:v:201:ASP:HB2	2.00	0.44
1:w:40:THR:HG21	1:w:238:SER:CB	2.46	0.44
1:w:505:GLY:O	1:w:511:THR:OG1	2.32	0.44
1:y:198:GLU:HA	1:y:201:ASP:HB2	2.00	0.44
1:1:112:GLN:NE2	1:1:497:HIS:O	2.47	0.44
1:1:394:TYR:CE1	1:2:320:MET:HG2	2.53	0.44
1:2:40:THR:HG21	1:2:238:SER:CB	2.46	0.44
1:2:271:ARG:HE	1:2:294:PRO:HG2	1.82	0.44
1:A:227:ASN:ND2	1:I:489:LYS:O	2.51	0.44
1:B:394:TYR:CE1	1:J:320:MET:HG2	2.53	0.44
1:C:389:GLY:HA2	1:C:394:TYR:HA	1.99	0.44
1:D:227:ASN:ND2	1:P:489:LYS:O	2.51	0.44
1:G:389:GLY:HA2	1:G:394:TYR:HA	1.99	0.44
1:J:40:THR:HG21	1:J:238:SER:CB	2.46	0.44
1:K:320:MET:HG2	1:8:394:TYR:CE1	2.53	0.44
1:K:489:LYS:O	1:a:227:ASN:ND2	2.51	0.44
1:K:535:LYS:NZ	1:a:427:ASP:OD2	2.32	0.44
1:N:303:LEU:HD23	1:N:319:PHE:CZ	2.52	0.44
1:N:452:MET:HE1	1:N:471:CYS:CB	2.47	0.44
1:P:452:MET:HE1	1:P:471:CYS:CB	2.47	0.44
1:R:271:ARG:HE	1:R:294:PRO:HG2	1.82	0.44
1:R:394:TYR:CE1	1:S:320:MET:HG2	2.53	0.44
1:Y:410:ARG:NH2	1:Y:434:PRO:HD2	2.31	0.44
1:a:198:GLU:HA	1:a:201:ASP:HB2	2.00	0.44
1:c:40:THR:HG21	1:c:238:SER:CB	2.46	0.44
1:f:40:THR:HG21	1:f:238:SER:CB	2.46	0.44
1:g:389:GLY:HA2	1:g:394:TYR:HA	1.99	0.44
1:h:303:LEU:HD23	1:h:319:PHE:CZ	2.52	0.44
1:h:410:ARG:NH2	1:h:434:PRO:HD2	2.31	0.44
1:j:489:LYS:O	1:k:227:ASN:ND2	2.51	0.44
1:o:271:ARG:HE	1:o:294:PRO:HG2	1.82	0.44
1:p:452:MET:HE1	1:p:471:CYS:CB	2.47	0.44
1:q:394:TYR:CE1	1:r:320:MET:HG2	2.53	0.44
1:s:410:ARG:NH2	1:s:434:PRO:HD2	2.31	0.44
1:t:389:GLY:HA2	1:t:394:TYR:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:403:PHE:CE1	1:v:303:LEU:HD13	2.53	0.44
1:w:320:MET:HG2	1:y:394:TYR:CE1	2.53	0.44
1:z:320:MET:HG2	1:2:394:TYR:CE1	2.53	0.44
1:z:394:TYR:CE1	1:1:320:MET:HG2	2.53	0.44
1:3:198:GLU:HA	1:3:201:ASP:HB2	2.00	0.44
1:4:505:GLY:O	1:4:511:THR:OG1	2.32	0.44
1:D:198:GLU:HA	1:D:201:ASP:HB2	2.00	0.44
1:E:40:THR:HG21	1:E:238:SER:CB	2.46	0.44
1:E:320:MET:HG2	1:F:394:TYR:CE1	2.53	0.44
1:G:198:GLU:HA	1:G:201:ASP:HB2	2.00	0.44
1:H:271:ARG:HE	1:H:294:PRO:HG2	1.82	0.44
1:J:394:TYR:CE1	1:L:320:MET:HG2	2.53	0.44
1:J:507:GLU:C	1:J:509:ASN:H	2.26	0.44
1:O:92:THR:OG1	1:O:190:TYR:O	2.32	0.44
1:P:389:GLY:HA2	1:P:394:TYR:HA	1.99	0.44
1:R:303:LEU:HD23	1:R:319:PHE:CZ	2.52	0.44
1:R:507:GLU:C	1:R:509:ASN:H	2.26	0.44
1:V:227:ASN:ND2	1:X:489:LYS:O	2.51	0.44
1:V:271:ARG:HE	1:V:294:PRO:HG2	1.83	0.44
1:W:271:ARG:HE	1:W:294:PRO:HG2	1.82	0.44
1:c:389:GLY:HA2	1:c:394:TYR:HA	1.99	0.44
1:e:40:THR:HG21	1:e:238:SER:CB	2.46	0.44
1:i:452:MET:HE1	1:i:471:CYS:CB	2.47	0.44
1:j:389:GLY:HA2	1:j:394:TYR:HA	1.99	0.44
1:j:452:MET:HE1	1:j:471:CYS:CB	2.47	0.44
1:k:271:ARG:HE	1:k:294:PRO:HG2	1.82	0.44
1:l:92:THR:OG1	1:l:190:TYR:O	2.32	0.44
1:l:389:GLY:HA2	1:l:394:TYR:HA	1.99	0.44
1:n:389:GLY:HA2	1:n:394:TYR:HA	1.99	0.44
1:o:394:TYR:CE1	1:p:320:MET:HG2	2.53	0.44
1:q:507:GLU:C	1:q:509:ASN:H	2.26	0.44
1:t:271:ARG:HE	1:t:294:PRO:HG2	1.83	0.44
1:u:198:GLU:HA	1:u:201:ASP:HB2	2.00	0.44
1:z:271:ARG:HE	1:z:294:PRO:HG2	1.83	0.44
1:1:389:GLY:HA2	1:1:394:TYR:HA	1.99	0.44
1:3:227:ASN:ND2	1:4:489:LYS:O	2.51	0.44
1:4:198:GLU:HA	1:4:201:ASP:HB2	2.00	0.44
1:5:227:ASN:ND2	1:7:489:LYS:O	2.51	0.44
1:5:271:ARG:HE	1:5:294:PRO:HG2	1.82	0.44
1:7:410:ARG:NH2	1:7:434:PRO:HD2	2.31	0.44
1:A:427:ASP:OD2	1:I:535:LYS:NZ	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:389:GLY:HA2	1:B:394:TYR:HA	1.99	0.44
1:D:271:ARG:HE	1:D:294:PRO:HG2	1.82	0.44
1:I:198:GLU:HA	1:I:201:ASP:HB2	1.99	0.44
1:K:303:LEU:HD13	1:8:403:PHE:CE1	2.53	0.44
1:K:394:TYR:CE1	1:a:320:MET:HG2	2.53	0.44
1:K:403:PHE:CE1	1:a:303:LEU:HD13	2.53	0.44
1:M:271:ARG:HE	1:M:294:PRO:HG2	1.82	0.44
1:M:389:GLY:HA2	1:M:394:TYR:HA	1.99	0.44
1:O:227:ASN:ND2	1:n:489:LYS:O	2.51	0.44
1:O:389:GLY:HA2	1:O:394:TYR:HA	1.99	0.44
1:R:227:ASN:ND2	1:U:489:LYS:O	2.51	0.44
1:R:320:MET:HG2	1:U:394:TYR:CE1	2.53	0.44
1:V:320:MET:HG2	1:X:394:TYR:CE1	2.53	0.44
1:X:271:ARG:HE	1:X:294:PRO:HG2	1.82	0.44
1:Z:303:LEU:HD13	1:3:403:PHE:CE1	2.53	0.44
1:Z:394:TYR:CE1	1:4:320:MET:HG2	2.53	0.44
1:Z:403:PHE:CE1	1:4:303:LEU:HD13	2.53	0.44
1:b:40:THR:HG21	1:b:238:SER:CB	2.46	0.44
1:d:389:GLY:HA2	1:d:394:TYR:HA	1.99	0.44
1:d:489:LYS:O	1:l:227:ASN:ND2	2.51	0.44
1:e:389:GLY:HA2	1:e:394:TYR:HA	1.99	0.44
1:h:271:ARG:HE	1:h:294:PRO:HG2	1.82	0.44
1:h:389:GLY:HA2	1:h:394:TYR:HA	1.99	0.44
1:k:198:GLU:HA	1:k:201:ASP:HB2	2.00	0.44
1:o:489:LYS:O	1:p:227:ASN:ND2	2.51	0.44
1:q:198:GLU:HA	1:q:201:ASP:HB2	2.00	0.44
1:q:303:LEU:HD23	1:q:319:PHE:CZ	2.52	0.44
1:q:320:MET:HG2	1:s:394:TYR:CE1	2.53	0.44
1:t:303:LEU:HD13	1:v:403:PHE:CE1	2.53	0.44
1:2:507:GLU:C	1:2:509:ASN:H	2.26	0.44
1:3:303:LEU:HD13	1:4:403:PHE:CE1	2.53	0.44
1:3:320:MET:HG2	1:4:394:TYR:CE1	2.53	0.44
1:4:304:LEU:HB2	1:4:398:GLY:O	2.18	0.44
1:5:489:LYS:O	1:6:227:ASN:ND2	2.51	0.44
1:A:507:GLU:C	1:A:509:ASN:H	2.26	0.44
1:B:271:ARG:HE	1:B:294:PRO:HG2	1.83	0.44
1:K:198:GLU:HA	1:K:201:ASP:HB2	2.00	0.44
1:K:304:LEU:HB2	1:K:398:GLY:O	2.18	0.44
1:K:507:GLU:C	1:K:509:ASN:H	2.26	0.44
1:M:410:ARG:NH2	1:M:434:PRO:HD2	2.31	0.44
1:O:320:MET:HG2	1:n:394:TYR:CE1	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:421:CYS:N	1:P:439:ILE:O	2.42	0.44
1:R:198:GLU:HA	1:R:201:ASP:HB2	2.00	0.44
1:R:403:PHE:CE1	1:S:303:LEU:HD13	2.53	0.44
1:T:394:TYR:CE1	1:d:320:MET:HG2	2.53	0.44
1:V:303:LEU:HD23	1:V:319:PHE:CZ	2.52	0.44
1:V:389:GLY:HA2	1:V:394:TYR:HA	1.99	0.44
1:X:198:GLU:HA	1:X:201:ASP:HB2	2.00	0.44
1:Y:271:ARG:HE	1:Y:294:PRO:HG2	1.83	0.44
1:a:403:PHE:CE1	1:8:303:LEU:HD13	2.53	0.44
1:b:303:LEU:HD23	1:b:319:PHE:CZ	2.52	0.44
1:f:303:LEU:HD23	1:f:319:PHE:CZ	2.52	0.44
1:g:198:GLU:HA	1:g:201:ASP:HB2	2.00	0.44
1:j:421:CYS:N	1:j:439:ILE:O	2.42	0.44
1:m:198:GLU:HA	1:m:201:ASP:HB2	2.00	0.44
1:m:394:TYR:CE1	1:n:320:MET:HG2	2.53	0.44
1:q:271:ARG:HE	1:q:294:PRO:HG2	1.83	0.44
1:t:198:GLU:HA	1:t:201:ASP:HB2	2.00	0.44
1:t:227:ASN:ND2	1:v:489:LYS:O	2.51	0.44
1:t:403:PHE:CE1	1:u:303:LEU:HD13	2.53	0.44
1:u:489:LYS:O	1:v:227:ASN:ND2	2.51	0.44
1:u:535:LYS:NZ	1:v:427:ASP:OD2	2.31	0.44
1:4:507:GLU:C	1:4:509:ASN:H	2.26	0.44
1:5:394:TYR:CE1	1:6:320:MET:HG2	2.53	0.44
1:6:271:ARG:HE	1:6:294:PRO:HG2	1.82	0.44
1:6:489:LYS:O	1:7:227:ASN:ND2	2.51	0.44
1:7:271:ARG:HE	1:7:294:PRO:HG2	1.82	0.44
1:A:489:LYS:O	1:G:227:ASN:ND2	2.51	0.44
1:C:198:GLU:HA	1:C:201:ASP:HB2	2.00	0.44
1:G:403:PHE:CE1	1:I:303:LEU:HD13	2.53	0.44
1:H:303:LEU:HD13	1:Y:403:PHE:CE1	2.53	0.44
1:J:489:LYS:O	1:L:227:ASN:ND2	2.51	0.44
1:L:304:LEU:HB2	1:L:398:GLY:O	2.18	0.44
1:N:507:GLU:C	1:N:509:ASN:H	2.26	0.44
1:O:303:LEU:HD13	1:n:403:PHE:CE1	2.53	0.44
1:O:489:LYS:O	1:m:227:ASN:ND2	2.51	0.44
1:Q:452:MET:HE1	1:Q:471:CYS:CB	2.47	0.44
1:R:489:LYS:O	1:S:227:ASN:ND2	2.51	0.44
1:T:198:GLU:HA	1:T:201:ASP:HB2	2.00	0.44
1:X:389:GLY:HA2	1:X:394:TYR:HA	1.99	0.44
1:c:320:MET:HG2	1:p:394:TYR:CE1	2.53	0.44
1:d:394:TYR:CE1	1:l:320:MET:HG2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:403:PHE:CE1	1:l:303:LEU:HD13	2.53	0.44
1:f:403:PHE:CE1	1:h:303:LEU:HD13	2.53	0.44
1:l:303:LEU:HD23	1:l:319:PHE:CZ	2.52	0.44
1:p:198:GLU:HA	1:p:201:ASP:HB2	2.00	0.44
1:p:389:GLY:HA2	1:p:394:TYR:HA	1.99	0.44
1:q:227:ASN:ND2	1:s:489:LYS:O	2.51	0.44
1:q:403:PHE:CE1	1:r:303:LEU:HD13	2.53	0.44
1:t:320:MET:HG2	1:v:394:TYR:CE1	2.53	0.44
1:x:394:TYR:CE1	1:y:320:MET:HG2	2.53	0.44
1:z:227:ASN:ND2	1:2:489:LYS:O	2.51	0.44
1:z:304:LEU:HB2	1:z:398:GLY:O	2.18	0.44
1:1:271:ARG:HE	1:1:294:PRO:HG2	1.83	0.44
1:4:389:GLY:HA2	1:4:394:TYR:HA	1.99	0.44
1:A:303:LEU:HD13	1:I:403:PHE:CE1	2.53	0.43
1:B:304:LEU:HB2	1:B:398:GLY:O	2.18	0.43
1:C:271:ARG:HE	1:C:294:PRO:HG2	1.82	0.43
1:D:512:PRO:HB2	1:M:492:ARG:NH1	2.33	0.43
1:F:320:MET:HG2	1:Q:394:TYR:CE1	2.53	0.43
1:G:394:TYR:CE1	1:I:320:MET:HG2	2.53	0.43
1:I:304:LEU:HB2	1:I:398:GLY:O	2.18	0.43
1:K:389:GLY:HA2	1:K:394:TYR:HA	1.99	0.43
1:N:403:PHE:CE1	1:P:303:LEU:HD13	2.53	0.43
1:O:303:LEU:HD23	1:O:319:PHE:CZ	2.52	0.43
1:O:452:MET:HE1	1:O:471:CYS:CB	2.47	0.43
1:Q:507:GLU:C	1:Q:509:ASN:H	2.26	0.43
1:R:303:LEU:HD13	1:U:403:PHE:CE1	2.53	0.43
1:T:303:LEU:HD13	1:l:403:PHE:CE1	2.53	0.43
1:U:389:GLY:HA2	1:U:394:TYR:HA	1.99	0.43
1:V:198:GLU:HA	1:V:201:ASP:HB2	2.00	0.43
1:V:394:TYR:CE1	1:e:320:MET:HG2	2.53	0.43
1:V:403:PHE:CE1	1:e:303:LEU:HD13	2.53	0.43
1:W:303:LEU:HD23	1:W:319:PHE:CZ	2.52	0.43
1:W:507:GLU:C	1:W:509:ASN:H	2.26	0.43
1:X:320:MET:HG2	1:e:394:TYR:CE1	2.53	0.43
1:c:394:TYR:CE1	1:o:320:MET:HG2	2.53	0.43
1:g:304:LEU:HB2	1:g:398:GLY:O	2.18	0.43
1:h:507:GLU:C	1:h:509:ASN:H	2.26	0.43
1:i:507:GLU:C	1:i:509:ASN:H	2.26	0.43
1:l:507:GLU:C	1:l:509:ASN:H	2.26	0.43
1:o:198:GLU:HA	1:o:201:ASP:HB2	2.00	0.43
1:o:389:GLY:HA2	1:o:394:TYR:HA	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:303:LEU:HD23	1:p:319:PHE:CZ	2.52	0.43
1:p:507:GLU:C	1:p:509:ASN:H	2.26	0.43
1:q:303:LEU:HD13	1:s:403:PHE:CE1	2.53	0.43
1:s:304:LEU:HB2	1:s:398:GLY:O	2.18	0.43
1:s:389:GLY:HA2	1:s:394:TYR:HA	1.99	0.43
1:s:507:GLU:C	1:s:509:ASN:H	2.26	0.43
1:t:394:TYR:CE1	1:u:320:MET:HG2	2.53	0.43
1:v:507:GLU:C	1:v:509:ASN:H	2.26	0.43
1:w:507:GLU:C	1:w:509:ASN:H	2.26	0.43
1:x:92:THR:OG1	1:x:190:TYR:O	2.32	0.43
1:x:452:MET:HE1	1:x:471:CYS:CB	2.47	0.43
1:x:507:GLU:C	1:x:509:ASN:H	2.26	0.43
1:1:304:LEU:HB2	1:1:398:GLY:O	2.18	0.43
1:5:452:MET:HE1	1:5:471:CYS:CB	2.47	0.43
1:C:304:LEU:HB2	1:C:398:GLY:O	2.18	0.43
1:E:271:ARG:HE	1:E:294:PRO:HG2	1.82	0.43
1:E:303:LEU:HD13	1:F:403:PHE:CE1	2.53	0.43
1:H:452:MET:HE1	1:H:471:CYS:CB	2.47	0.43
1:H:507:GLU:C	1:H:509:ASN:H	2.26	0.43
1:M:303:LEU:HD13	1:b:403:PHE:CE1	2.53	0.43
1:M:304:LEU:HB2	1:M:398:GLY:O	2.18	0.43
1:M:507:GLU:C	1:M:509:ASN:H	2.26	0.43
1:O:403:PHE:CE1	1:m:303:LEU:HD13	2.53	0.43
1:O:507:GLU:C	1:O:509:ASN:H	2.26	0.43
1:Q:389:GLY:HA2	1:Q:394:TYR:HA	1.99	0.43
1:R:452:MET:HE1	1:R:471:CYS:CB	2.47	0.43
1:T:227:ASN:ND2	1:l:489:LYS:O	2.51	0.43
1:T:403:PHE:CE1	1:d:303:LEU:HD13	2.53	0.43
1:U:92:THR:OG1	1:U:190:TYR:O	2.32	0.43
1:U:304:LEU:HB2	1:U:398:GLY:O	2.18	0.43
1:U:333:GLY:HA2	1:U:337:PHE:HE2	1.81	0.43
1:U:492:ARG:NH1	1:V:512:PRO:HB2	2.33	0.43
1:V:303:LEU:HD13	1:X:403:PHE:CE1	2.53	0.43
1:Y:507:GLU:C	1:Y:509:ASN:H	2.26	0.43
1:a:452:MET:HE1	1:a:471:CYS:CB	2.47	0.43
1:c:303:LEU:HD13	1:p:403:PHE:CE1	2.53	0.43
1:h:304:LEU:HB2	1:h:398:GLY:O	2.18	0.43
1:h:492:ARG:NH1	1:k:512:PRO:HB2	2.33	0.43
1:i:403:PHE:CE1	1:j:303:LEU:HD13	2.53	0.43
1:j:96:TYR:OH	1:j:175:ASP:OD2	2.33	0.43
1:m:403:PHE:CE1	1:n:303:LEU:HD13	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:512:PRO:HB2	1:s:492:ARG:NH1	2.34	0.43
1:q:489:LYS:O	1:r:227:ASN:ND2	2.51	0.43
1:s:198:GLU:HA	1:s:201:ASP:HB2	2.00	0.43
1:t:489:LYS:O	1:u:227:ASN:ND2	2.51	0.43
1:u:304:LEU:HB2	1:u:398:GLY:O	2.18	0.43
1:v:304:LEU:HB2	1:v:398:GLY:O	2.18	0.43
1:w:271:ARG:HE	1:w:294:PRO:HG2	1.82	0.43
1:w:303:LEU:HD23	1:w:319:PHE:CZ	2.52	0.43
1:w:394:TYR:CE1	1:x:320:MET:HG2	2.53	0.43
1:5:403:PHE:CE1	1:6:303:LEU:HD13	2.53	0.43
1:5:507:GLU:C	1:5:509:ASN:H	2.26	0.43
1:6:394:TYR:HD2	1:7:334:ALA:HB1	1.83	0.43
1:6:507:GLU:C	1:6:509:ASN:H	2.26	0.43
1:7:507:GLU:C	1:7:509:ASN:H	2.26	0.43
1:8:198:GLU:HA	1:8:201:ASP:HB2	2.00	0.43
1:A:304:LEU:HB2	1:A:398:GLY:O	2.18	0.43
1:A:452:MET:HE1	1:A:471:CYS:CB	2.47	0.43
1:B:489:LYS:O	1:J:227:ASN:ND2	2.51	0.43
1:B:507:GLU:C	1:B:509:ASN:H	2.26	0.43
1:E:303:LEU:HD23	1:E:319:PHE:CZ	2.52	0.43
1:E:394:TYR:CE1	1:Q:320:MET:HG2	2.53	0.43
1:E:507:GLU:C	1:E:509:ASN:H	2.26	0.43
1:J:492:ARG:NH1	1:K:512:PRO:HB2	2.34	0.43
1:M:320:MET:HG2	1:b:394:TYR:CE1	2.53	0.43
1:S:304:LEU:HB2	1:S:398:GLY:O	2.18	0.43
1:U:271:ARG:HE	1:U:294:PRO:HG2	1.82	0.43
1:U:507:GLU:C	1:U:509:ASN:H	2.26	0.43
1:V:507:GLU:C	1:V:509:ASN:H	2.26	0.43
1:Z:198:GLU:HA	1:Z:201:ASP:HB2	1.99	0.43
1:f:227:ASN:ND2	1:g:489:LYS:O	2.51	0.43
1:g:227:ASN:ND2	1:h:489:LYS:O	2.51	0.43
1:g:271:ARG:HE	1:g:294:PRO:HG2	1.82	0.43
1:l:452:MET:HE1	1:l:471:CYS:CB	2.47	0.43
1:r:304:LEU:HB2	1:r:398:GLY:O	2.18	0.43
1:r:507:GLU:C	1:r:509:ASN:H	2.26	0.43
1:s:333:GLY:HA2	1:s:337:PHE:HE2	1.81	0.43
1:u:507:GLU:C	1:u:509:ASN:H	2.26	0.43
1:w:303:LEU:HD13	1:y:403:PHE:CE1	2.53	0.43
1:x:389:GLY:HA2	1:x:394:TYR:HA	1.99	0.43
1:x:535:LYS:NZ	1:y:427:ASP:OD2	2.31	0.43
1:y:410:ARG:NH2	1:y:434:PRO:HD2	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:92:THR:OG1	1:z:190:TYR:O	2.32	0.43
1:1:507:GLU:C	1:1:509:ASN:H	2.26	0.43
1:2:492:ARG:NH1	1:4:512:PRO:HB2	2.34	0.43
1:3:452:MET:HE1	1:3:471:CYS:CB	2.47	0.43
1:4:40:THR:HG21	1:4:238:SER:CB	2.46	0.43
1:6:303:LEU:HD23	1:6:319:PHE:CZ	2.52	0.43
1:6:394:TYR:CE1	1:7:320:MET:HG2	2.53	0.43
1:A:505:GLY:O	1:A:511:THR:OG1	2.32	0.43
1:C:227:ASN:ND2	1:M:489:LYS:O	2.51	0.43
1:C:320:MET:HG2	1:M:394:TYR:CE1	2.53	0.43
1:C:334:ALA:HB1	1:M:394:TYR:HD2	1.84	0.43
1:C:403:PHE:CE1	1:b:303:LEU:HD13	2.53	0.43
1:C:489:LYS:O	1:b:227:ASN:ND2	2.51	0.43
1:C:512:PRO:HB2	1:L:492:ARG:NH1	2.34	0.43
1:F:410:ARG:NH2	1:F:434:PRO:HD2	2.31	0.43
1:G:489:LYS:O	1:I:227:ASN:ND2	2.51	0.43
1:K:40:THR:HG21	1:K:238:SER:CB	2.46	0.43
1:L:92:THR:OG1	1:L:190:TYR:O	2.32	0.43
1:N:304:LEU:HB2	1:N:398:GLY:O	2.18	0.43
1:Q:92:THR:OG1	1:Q:190:TYR:O	2.32	0.43
1:S:507:GLU:C	1:S:509:ASN:H	2.26	0.43
1:T:489:LYS:O	1:d:227:ASN:ND2	2.51	0.43
1:U:198:GLU:HA	1:U:201:ASP:HB2	2.00	0.43
1:W:512:PRO:HB2	1:X:492:ARG:NH1	2.34	0.43
1:Z:320:MET:HG2	1:3:394:TYR:CE1	2.53	0.43
1:b:304:LEU:HB2	1:b:398:GLY:O	2.18	0.43
1:c:304:LEU:HB2	1:c:398:GLY:O	2.18	0.43
1:e:492:ARG:NH1	1:f:512:PRO:HB2	2.34	0.43
1:f:394:TYR:CE1	1:h:320:MET:HG2	2.53	0.43
1:g:320:MET:HG2	1:h:394:TYR:CE1	2.53	0.43
1:g:334:ALA:HB1	1:h:394:TYR:HD2	1.84	0.43
1:g:512:PRO:HB2	1:z:492:ARG:NH1	2.34	0.43
1:i:198:GLU:HA	1:i:201:ASP:HB2	2.00	0.43
1:i:489:LYS:O	1:j:227:ASN:ND2	2.51	0.43
1:n:40:THR:HG21	1:n:238:SER:CB	2.46	0.43
1:n:507:GLU:C	1:n:509:ASN:H	2.26	0.43
1:o:403:PHE:CE1	1:p:303:LEU:HD13	2.53	0.43
1:q:452:MET:HE1	1:q:471:CYS:CB	2.47	0.43
1:1:403:PHE:CE1	1:2:303:LEU:HD13	2.53	0.43
1:1:489:LYS:O	1:2:227:ASN:ND2	2.51	0.43
1:5:394:TYR:HD2	1:6:334:ALA:HB1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:394:TYR:CE1	1:G:320:MET:HG2	2.53	0.43
1:B:403:PHE:CE1	1:J:303:LEU:HD13	2.53	0.43
1:E:489:LYS:O	1:Q:227:ASN:ND2	2.51	0.43
1:F:303:LEU:HD13	1:Q:403:PHE:CE1	2.53	0.43
1:H:394:TYR:CE1	1:W:320:MET:HG2	2.53	0.43
1:I:452:MET:HE1	1:I:471:CYS:CB	2.47	0.43
1:I:507:GLU:C	1:I:509:ASN:H	2.26	0.43
1:L:389:GLY:HA2	1:L:394:TYR:HA	1.99	0.43
1:P:271:ARG:HE	1:P:294:PRO:HG2	1.82	0.43
1:X:507:GLU:C	1:X:509:ASN:H	2.26	0.43
1:a:492:ARG:NH1	1:3:512:PRO:HB2	2.34	0.43
1:a:512:PRO:HB2	1:3:492:ARG:NH1	2.34	0.43
1:b:512:PRO:HB2	1:c:492:ARG:NH1	2.34	0.43
1:d:394:TYR:HD2	1:l:334:ALA:HB1	1.84	0.43
1:d:507:GLU:C	1:d:509:ASN:H	2.26	0.43
1:e:304:LEU:HB2	1:e:398:GLY:O	2.18	0.43
1:f:303:LEU:HD13	1:g:403:PHE:CE1	2.53	0.43
1:f:304:LEU:HB2	1:f:398:GLY:O	2.18	0.43
1:m:489:LYS:O	1:n:227:ASN:ND2	2.51	0.43
1:m:512:PRO:HB2	1:r:492:ARG:NH1	2.34	0.43
1:o:507:GLU:C	1:o:509:ASN:H	2.26	0.43
1:v:452:MET:HE1	1:v:471:CYS:CB	2.47	0.43
1:w:489:LYS:O	1:x:227:ASN:ND2	2.51	0.43
1:y:304:LEU:HB2	1:y:398:GLY:O	2.18	0.43
1:z:421:CYS:N	1:z:439:ILE:O	2.42	0.43
1:z:507:GLU:C	1:z:509:ASN:H	2.26	0.43
1:7:198:GLU:HA	1:7:201:ASP:HB2	2.00	0.43
1:7:389:GLY:HA2	1:7:394:TYR:HA	1.99	0.43
1:7:421:CYS:N	1:7:439:ILE:O	2.42	0.43
1:A:320:MET:HG2	1:I:394:TYR:CE1	2.53	0.43
1:B:92:THR:OG1	1:B:190:TYR:O	2.32	0.43
1:B:492:ARG:NH1	1:I:512:PRO:HB2	2.34	0.43
1:F:304:LEU:HB2	1:F:398:GLY:O	2.18	0.43
1:H:394:TYR:HD2	1:W:334:ALA:HB1	1.84	0.43
1:K:227:ASN:ND2	1:8:489:LYS:O	2.51	0.43
1:L:421:CYS:N	1:L:439:ILE:O	2.42	0.43
1:N:489:LYS:O	1:P:227:ASN:ND2	2.51	0.43
1:O:334:ALA:HB1	1:n:394:TYR:HD2	1.84	0.43
1:P:507:GLU:C	1:P:509:ASN:H	2.26	0.43
1:S:394:TYR:CE1	1:U:320:MET:HG2	2.53	0.43
1:S:492:ARG:NH1	1:T:512:PRO:HB2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:334:ALA:HB1	1:X:394:TYR:HD2	1.84	0.43
1:V:489:LYS:O	1:e:227:ASN:ND2	2.51	0.43
1:Z:489:LYS:O	1:4:227:ASN:ND2	2.51	0.43
1:a:394:TYR:CE1	1:8:320:MET:HG2	2.53	0.43
1:a:507:GLU:C	1:a:509:ASN:H	2.26	0.43
1:d:512:PRO:HB2	1:n:492:ARG:NH1	2.34	0.43
1:g:507:GLU:C	1:g:509:ASN:H	2.26	0.43
1:h:512:PRO:HB2	1:k:492:ARG:NH1	2.34	0.43
1:i:304:LEU:HB2	1:i:398:GLY:O	2.18	0.43
1:i:512:PRO:HB2	1:l:492:ARG:NH1	2.34	0.43
1:j:507:GLU:C	1:j:509:ASN:H	2.26	0.43
1:o:492:ARG:NH1	1:6:512:PRO:HB2	2.34	0.43
1:s:92:THR:OG1	1:s:190:TYR:O	2.32	0.43
1:s:271:ARG:HE	1:s:294:PRO:HG2	1.83	0.43
1:s:505:GLY:O	1:s:511:THR:OG1	2.32	0.43
1:u:512:PRO:HB2	1:1:492:ARG:NH1	2.34	0.43
1:x:403:PHE:CE1	1:y:303:LEU:HD13	2.53	0.43
1:y:507:GLU:C	1:y:509:ASN:H	2.26	0.43
1:z:403:PHE:CE1	1:1:303:LEU:HD13	2.53	0.43
1:3:507:GLU:C	1:3:509:ASN:H	2.26	0.43
1:A:492:ARG:NH1	1:F:512:PRO:HB2	2.33	0.43
1:B:227:ASN:ND2	1:L:489:LYS:O	2.51	0.43
1:B:303:LEU:HD13	1:L:403:PHE:CE1	2.53	0.43
1:C:507:GLU:C	1:C:509:ASN:H	2.26	0.43
1:D:303:LEU:HD13	1:P:403:PHE:CE1	2.54	0.43
1:D:489:LYS:O	1:N:227:ASN:ND2	2.51	0.43
1:D:492:ARG:NH1	1:M:512:PRO:HB2	2.34	0.43
1:E:403:PHE:CE1	1:Q:303:LEU:HD13	2.53	0.43
1:F:507:GLU:C	1:F:509:ASN:H	2.26	0.43
1:L:507:GLU:C	1:L:509:ASN:H	2.26	0.43
1:N:198:GLU:HA	1:N:201:ASP:HB2	2.00	0.43
1:N:512:PRO:HB2	1:O:492:ARG:NH1	2.34	0.43
1:O:271:ARG:HE	1:O:294:PRO:HG2	1.82	0.43
1:P:304:LEU:HB2	1:P:398:GLY:O	2.18	0.43
1:T:334:ALA:HB1	1:l:394:TYR:HD2	1.84	0.43
1:T:507:GLU:C	1:T:509:ASN:H	2.26	0.43
1:V:168:ALA:HB3	1:V:447:THR:HG21	2.01	0.43
1:Y:304:LEU:HB2	1:Y:398:GLY:O	2.18	0.43
1:Y:389:GLY:HA2	1:Y:394:TYR:HA	1.99	0.43
1:a:304:LEU:HB2	1:a:398:GLY:O	2.18	0.43
1:d:40:THR:HG21	1:d:238:SER:CB	2.46	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:492:ARG:NH1	1:n:512:PRO:HB2	2.34	0.43
1:f:320:MET:HG2	1:g:394:TYR:CE1	2.53	0.43
1:f:452:MET:HE1	1:f:471:CYS:CB	2.47	0.43
1:f:505:GLY:O	1:f:511:THR:OG1	2.32	0.43
1:i:394:TYR:HD2	1:j:334:ALA:HB1	1.84	0.43
1:j:304:LEU:HB2	1:j:398:GLY:O	2.18	0.43
1:k:304:LEU:HB2	1:k:398:GLY:O	2.18	0.43
1:l:271:ARG:HE	1:l:294:PRO:HG2	1.82	0.43
1:m:507:GLU:C	1:m:509:ASN:H	2.26	0.43
1:o:394:TYR:HD2	1:p:334:ALA:HB1	1.84	0.43
1:u:271:ARG:HE	1:u:294:PRO:HG2	1.82	0.43
1:u:452:MET:HE1	1:u:471:CYS:CB	2.47	0.43
1:y:421:CYS:N	1:y:439:ILE:O	2.42	0.43
1:z:389:GLY:HA2	1:z:394:TYR:HA	1.99	0.43
1:1:168:ALA:HB3	1:1:447:THR:HG21	2.01	0.43
1:3:304:LEU:HB2	1:3:398:GLY:O	2.18	0.43
1:3:334:ALA:HB1	1:4:394:TYR:HD2	1.84	0.43
1:5:303:LEU:HD13	1:7:403:PHE:CE1	2.54	0.43
1:5:304:LEU:HB2	1:5:398:GLY:O	2.18	0.43
1:7:304:LEU:HB2	1:7:398:GLY:O	2.18	0.43
1:A:512:PRO:HB2	1:F:492:ARG:NH1	2.34	0.43
1:B:168:ALA:HB3	1:B:447:THR:HG21	2.01	0.43
1:C:394:TYR:CE1	1:b:320:MET:HG2	2.53	0.43
1:D:116:ASN:OD1	1:D:537:ASN:ND2	2.52	0.43
1:D:168:ALA:HB3	1:D:447:THR:HG21	2.01	0.43
1:D:304:LEU:HB2	1:D:398:GLY:O	2.18	0.43
1:E:116:ASN:OD1	1:E:537:ASN:ND2	2.52	0.43
1:E:492:ARG:NH1	1:P:512:PRO:HB2	2.34	0.43
1:G:346:GLY:O	1:G:382:ARG:NH1	2.52	0.43
1:H:227:ASN:ND2	1:Y:489:LYS:O	2.51	0.43
1:H:304:LEU:HB2	1:H:398:GLY:O	2.18	0.43
1:H:489:LYS:O	1:W:227:ASN:ND2	2.52	0.43
1:O:168:ALA:HB3	1:O:447:THR:HG21	2.01	0.43
1:O:394:TYR:HD2	1:m:334:ALA:HB1	1.84	0.43
1:Q:304:LEU:HB2	1:Q:398:GLY:O	2.18	0.43
1:R:346:GLY:O	1:R:382:ARG:NH1	2.52	0.43
1:S:512:PRO:HB2	1:T:492:ARG:NH1	2.34	0.43
1:U:505:GLY:O	1:U:511:THR:OG1	2.32	0.43
1:W:116:ASN:OD1	1:W:537:ASN:ND2	2.52	0.43
1:Y:198:GLU:HA	1:Y:201:ASP:HB2	2.00	0.43
1:a:168:ALA:HB3	1:a:447:THR:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:452:MET:HE1	1:b:471:CYS:CB	2.47	0.43
1:b:507:GLU:C	1:b:509:ASN:H	2.26	0.43
1:c:227:ASN:ND2	1:p:489:LYS:O	2.51	0.43
1:h:116:ASN:OD1	1:h:537:ASN:ND2	2.52	0.43
1:i:227:ASN:ND2	1:k:489:LYS:O	2.51	0.43
1:j:271:ARG:HE	1:j:294:PRO:HG2	1.82	0.43
1:j:403:PHE:CE1	1:k:303:LEU:HD13	2.54	0.43
1:j:512:PRO:HB2	1:w:492:ARG:NH1	2.34	0.43
1:k:116:ASN:OD1	1:k:537:ASN:ND2	2.52	0.43
1:k:168:ALA:HB3	1:k:447:THR:HG21	2.01	0.43
1:l:168:ALA:HB3	1:l:447:THR:HG21	2.01	0.43
1:m:394:TYR:HD2	1:n:334:ALA:HB1	1.84	0.43
1:m:492:ARG:NH1	1:r:512:PRO:HB2	2.34	0.43
1:p:168:ALA:HB3	1:p:447:THR:HG21	2.01	0.43
1:q:346:GLY:O	1:q:382:ARG:NH1	2.52	0.43
1:q:394:TYR:HD2	1:r:334:ALA:HB1	1.84	0.43
1:q:492:ARG:NH1	1:x:512:PRO:HB2	2.34	0.43
1:r:394:TYR:CE1	1:s:320:MET:HG2	2.53	0.43
1:r:421:CYS:N	1:r:439:ILE:O	2.42	0.43
1:t:346:GLY:O	1:t:382:ARG:NH1	2.52	0.43
1:v:505:GLY:O	1:v:511:THR:OG1	2.32	0.43
1:v:512:PRO:HB2	1:y:492:ARG:NH1	2.34	0.43
1:x:346:GLY:O	1:x:382:ARG:NH1	2.52	0.43
1:x:489:LYS:O	1:y:227:ASN:ND2	2.51	0.43
1:4:346:GLY:O	1:4:382:ARG:NH1	2.52	0.43
1:6:116:ASN:OD1	1:6:537:ASN:ND2	2.52	0.43
1:A:346:GLY:O	1:A:382:ARG:NH1	2.52	0.43
1:B:394:TYR:HD2	1:J:334:ALA:HB1	1.84	0.43
1:D:334:ALA:HB1	1:P:394:TYR:HD2	1.84	0.43
1:F:227:ASN:ND2	1:Q:489:LYS:O	2.51	0.43
1:F:334:ALA:HB1	1:Q:394:TYR:HD2	1.84	0.43
1:G:116:ASN:OD1	1:G:537:ASN:ND2	2.52	0.43
1:G:304:LEU:HB2	1:G:398:GLY:O	2.18	0.43
1:H:346:GLY:O	1:H:382:ARG:NH1	2.52	0.43
1:I:271:ARG:HE	1:I:294:PRO:HG2	1.82	0.43
1:J:116:ASN:OD1	1:J:537:ASN:ND2	2.52	0.43
1:K:116:ASN:OD1	1:K:537:ASN:ND2	2.52	0.43
1:K:346:GLY:O	1:K:382:ARG:NH1	2.52	0.43
1:K:394:TYR:HD2	1:a:334:ALA:HB1	1.84	0.43
1:L:116:ASN:OD1	1:L:537:ASN:ND2	2.52	0.43
1:M:116:ASN:OD1	1:M:537:ASN:ND2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:334:ALA:HB1	1:b:394:TYR:HD2	1.84	0.43
1:N:394:TYR:HD2	1:P:334:ALA:HB1	1.84	0.43
1:Q:346:GLY:O	1:Q:382:ARG:NH1	2.52	0.43
1:Q:512:PRO:HB2	1:R:492:ARG:NH1	2.33	0.43
1:R:116:ASN:OD1	1:R:537:ASN:ND2	2.52	0.43
1:R:304:LEU:HB2	1:R:398:GLY:O	2.18	0.43
1:R:334:ALA:HB1	1:U:394:TYR:HD2	1.84	0.43
1:U:346:GLY:O	1:U:382:ARG:NH1	2.52	0.43
1:U:512:PRO:HB2	1:V:492:ARG:NH1	2.34	0.43
1:V:89:CYS:HB3	1:X:265:PRO:HG3	2.01	0.43
1:V:116:ASN:OD1	1:V:537:ASN:ND2	2.52	0.43
1:Z:116:ASN:OD1	1:Z:537:ASN:ND2	2.52	0.43
1:Z:168:ALA:HB3	1:Z:447:THR:HG21	2.01	0.43
1:Z:452:MET:HE1	1:Z:471:CYS:CB	2.47	0.43
1:Z:507:GLU:C	1:Z:509:ASN:H	2.26	0.43
1:a:346:GLY:O	1:a:382:ARG:NH1	2.52	0.43
1:c:198:GLU:HA	1:c:201:ASP:HB2	2.00	0.43
1:d:271:ARG:HE	1:d:294:PRO:HG2	1.82	0.43
1:f:198:GLU:HA	1:f:201:ASP:HB2	1.99	0.43
1:f:507:GLU:C	1:f:509:ASN:H	2.26	0.43
1:j:394:TYR:HD2	1:k:334:ALA:HB1	1.84	0.43
1:l:198:GLU:HA	1:l:201:ASP:HB2	2.00	0.43
1:p:271:ARG:HE	1:p:294:PRO:HG2	1.83	0.43
1:p:492:ARG:NH1	1:s:512:PRO:HB2	2.34	0.43
1:q:334:ALA:HB1	1:s:394:TYR:HD2	1.84	0.43
1:s:346:GLY:O	1:s:382:ARG:NH1	2.52	0.43
1:t:116:ASN:OD1	1:t:537:ASN:ND2	2.52	0.43
1:t:304:LEU:HB2	1:t:398:GLY:O	2.18	0.43
1:u:346:GLY:O	1:u:382:ARG:NH1	2.52	0.43
1:u:394:TYR:CE1	1:v:320:MET:HG2	2.53	0.43
1:w:116:ASN:OD1	1:w:537:ASN:ND2	2.52	0.43
1:w:403:PHE:CE1	1:x:303:LEU:HD13	2.53	0.43
1:x:271:ARG:HE	1:x:294:PRO:HG2	1.82	0.43
1:x:394:TYR:HD2	1:y:334:ALA:HB1	1.84	0.43
1:z:116:ASN:OD1	1:z:537:ASN:ND2	2.52	0.43
1:z:198:GLU:HA	1:z:201:ASP:HB2	2.00	0.43
1:z:303:LEU:HD13	1:2:403:PHE:CE1	2.53	0.43
1:2:116:ASN:OD1	1:2:537:ASN:ND2	2.52	0.43
1:3:168:ALA:HB3	1:3:447:THR:HG21	2.01	0.43
1:5:346:GLY:O	1:5:382:ARG:NH1	2.52	0.43
1:8:116:ASN:OD1	1:8:537:ASN:ND2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:168:ALA:HB3	1:8:447:THR:HG21	2.01	0.43
1:E:168:ALA:HB3	1:E:447:THR:HG21	2.01	0.43
1:E:512:PRO:HB2	1:P:492:ARG:NH1	2.34	0.43
1:I:346:GLY:O	1:I:382:ARG:NH1	2.52	0.43
1:J:403:PHE:CE1	1:L:303:LEU:HD13	2.53	0.43
1:L:198:GLU:HA	1:L:201:ASP:HB2	2.00	0.43
1:N:346:GLY:O	1:N:382:ARG:NH1	2.52	0.43
1:O:198:GLU:HA	1:O:201:ASP:HB2	2.00	0.43
1:Q:116:ASN:OD1	1:Q:537:ASN:ND2	2.52	0.43
1:Q:198:GLU:HA	1:Q:201:ASP:HB2	2.00	0.43
1:Q:492:ARG:NH1	1:R:512:PRO:HB2	2.34	0.43
1:R:394:TYR:HD2	1:S:334:ALA:HB1	1.84	0.43
1:S:394:TYR:HD2	1:U:334:ALA:HB1	1.84	0.43
1:T:346:GLY:O	1:T:382:ARG:NH1	2.52	0.43
1:T:394:TYR:HD2	1:d:334:ALA:HB1	1.84	0.43
1:Y:116:ASN:OD1	1:Y:537:ASN:ND2	2.52	0.43
1:Y:346:GLY:O	1:Y:382:ARG:NH1	2.52	0.43
1:Y:512:PRO:HB2	1:Z:492:ARG:NH1	2.33	0.43
1:Z:227:ASN:ND2	1:3:489:LYS:O	2.51	0.43
1:b:505:GLY:O	1:b:511:THR:OG1	2.32	0.43
1:c:489:LYS:O	1:o:227:ASN:ND2	2.51	0.43
1:c:507:GLU:C	1:c:509:ASN:H	2.26	0.43
1:e:198:GLU:HA	1:e:201:ASP:HB2	2.00	0.43
1:f:394:TYR:HD2	1:h:334:ALA:HB1	1.84	0.43
1:i:346:GLY:O	1:i:382:ARG:NH1	2.52	0.43
1:j:492:ARG:NH1	1:w:512:PRO:HB2	2.34	0.43
1:k:507:GLU:C	1:k:509:ASN:H	2.26	0.43
1:m:346:GLY:O	1:m:382:ARG:NH1	2.52	0.43
1:n:168:ALA:HB3	1:n:447:THR:HG21	2.01	0.43
1:n:304:LEU:HB2	1:n:398:GLY:O	2.18	0.43
1:p:116:ASN:OD1	1:p:537:ASN:ND2	2.52	0.43
1:q:116:ASN:OD1	1:q:537:ASN:ND2	2.52	0.43
1:q:304:LEU:HB2	1:q:398:GLY:O	2.18	0.43
1:t:512:PRO:HB2	1:5:492:ARG:NH1	2.34	0.43
1:v:168:ALA:HB3	1:v:447:THR:HG21	2.01	0.43
1:v:346:GLY:O	1:v:382:ARG:NH1	2.52	0.43
1:w:227:ASN:ND2	1:y:489:LYS:O	2.51	0.43
1:x:116:ASN:OD1	1:x:537:ASN:ND2	2.52	0.43
1:x:198:GLU:HA	1:x:201:ASP:HB2	2.00	0.43
1:x:304:LEU:HB2	1:x:398:GLY:O	2.18	0.43
1:z:489:LYS:O	1:1:227:ASN:ND2	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:394:TYR:HD2	1:2:334:ALA:HB1	1.84	0.43
1:2:96:TYR:OH	1:2:175:ASP:OD2	2.33	0.43
1:2:346:GLY:O	1:2:382:ARG:NH1	2.52	0.43
1:3:346:GLY:O	1:3:382:ARG:NH1	2.52	0.43
1:4:116:ASN:OD1	1:4:537:ASN:ND2	2.52	0.43
1:7:346:GLY:O	1:7:382:ARG:NH1	2.52	0.43
1:7:512:PRO:HB2	1:8:492:ARG:NH1	2.33	0.43
1:8:507:GLU:C	1:8:509:ASN:H	2.26	0.43
1:A:168:ALA:HB3	1:A:447:THR:HG21	2.01	0.42
1:D:262:MET:HE3	1:D:542:LEU:O	2.19	0.42
1:D:507:GLU:C	1:D:509:ASN:H	2.26	0.42
1:E:227:ASN:ND2	1:F:489:LYS:O	2.51	0.42
1:F:421:CYS:N	1:F:439:ILE:O	2.42	0.42
1:H:116:ASN:OD1	1:H:537:ASN:ND2	2.52	0.42
1:I:262:MET:HE3	1:I:542:LEU:O	2.19	0.42
1:J:346:GLY:O	1:J:382:ARG:NH1	2.52	0.42
1:L:346:GLY:O	1:L:382:ARG:NH1	2.52	0.42
1:M:227:ASN:ND2	1:b:489:LYS:O	2.51	0.42
1:Q:271:ARG:HE	1:Q:294:PRO:HG2	1.82	0.42
1:S:505:GLY:O	1:S:511:THR:OG1	2.32	0.42
1:V:262:MET:HE3	1:V:542:LEU:O	2.19	0.42
1:W:265:PRO:HG3	1:Y:89:CYS:HB3	2.01	0.42
1:W:346:GLY:O	1:W:382:ARG:NH1	2.52	0.42
1:W:403:PHE:CE1	1:Y:303:LEU:HD13	2.54	0.42
1:X:304:LEU:HB2	1:X:398:GLY:O	2.18	0.42
1:X:346:GLY:O	1:X:382:ARG:NH1	2.52	0.42
1:c:346:GLY:O	1:c:382:ARG:NH1	2.52	0.42
1:d:168:ALA:HB3	1:d:447:THR:HG21	2.01	0.42
1:d:304:LEU:HB2	1:d:398:GLY:O	2.18	0.42
1:e:507:GLU:C	1:e:509:ASN:H	2.26	0.42
1:f:346:GLY:O	1:f:382:ARG:NH1	2.52	0.42
1:h:198:GLU:HA	1:h:201:ASP:HB2	2.00	0.42
1:n:271:ARG:HE	1:n:294:PRO:HG2	1.82	0.42
1:o:265:PRO:HG3	1:p:89:CYS:HB3	2.01	0.42
1:o:304:LEU:HB2	1:o:398:GLY:O	2.18	0.42
1:p:262:MET:HE3	1:p:542:LEU:O	2.19	0.42
1:q:512:PRO:HB2	1:x:492:ARG:NH1	2.34	0.42
1:r:394:TYR:HD2	1:s:334:ALA:HB1	1.84	0.42
1:t:262:MET:HE3	1:t:542:LEU:O	2.20	0.42
1:u:262:MET:HE3	1:u:542:LEU:O	2.19	0.42
1:v:116:ASN:OD1	1:v:537:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:492:ARG:NH1	1:y:512:PRO:HB2	2.34	0.42
1:w:168:ALA:HB3	1:w:447:THR:HG21	2.01	0.42
1:7:116:ASN:OD1	1:7:537:ASN:ND2	2.52	0.42
1:8:346:GLY:O	1:8:382:ARG:NH1	2.52	0.42
1:A:116:ASN:OD1	1:A:537:ASN:ND2	2.52	0.42
1:B:116:ASN:OD1	1:B:537:ASN:ND2	2.52	0.42
1:B:262:MET:HE3	1:B:542:LEU:O	2.20	0.42
1:C:303:LEU:HD13	1:M:403:PHE:CE1	2.53	0.42
1:D:403:PHE:HB2	1:N:401:TRP:HE3	1.84	0.42
1:F:262:MET:HE3	1:F:542:LEU:O	2.20	0.42
1:G:262:MET:HE3	1:G:542:LEU:O	2.20	0.42
1:G:512:PRO:HB2	1:H:492:ARG:NH1	2.34	0.42
1:I:116:ASN:OD1	1:I:537:ASN:ND2	2.52	0.42
1:J:168:ALA:HB3	1:J:447:THR:HG21	2.01	0.42
1:J:304:LEU:HB2	1:J:398:GLY:O	2.18	0.42
1:M:198:GLU:HA	1:M:201:ASP:HB2	2.00	0.42
1:O:304:LEU:HB2	1:O:398:GLY:O	2.18	0.42
1:P:168:ALA:HB3	1:P:447:THR:HG21	2.01	0.42
1:S:198:GLU:HA	1:S:201:ASP:HB2	2.00	0.42
1:U:98:ASN:HD22	1:U:175:ASP:CG	2.28	0.42
1:V:40:THR:HG21	1:V:238:SER:CB	2.46	0.42
1:X:92:THR:OG1	1:X:190:TYR:O	2.32	0.42
1:X:227:ASN:ND2	1:e:489:LYS:O	2.51	0.42
1:Z:346:GLY:O	1:Z:382:ARG:NH1	2.52	0.42
1:b:198:GLU:HA	1:b:201:ASP:HB2	2.00	0.42
1:b:346:GLY:O	1:b:382:ARG:NH1	2.52	0.42
1:e:346:GLY:O	1:e:382:ARG:NH1	2.52	0.42
1:f:489:LYS:O	1:h:227:ASN:ND2	2.51	0.42
1:g:303:LEU:HD13	1:h:403:PHE:CE1	2.53	0.42
1:i:401:TRP:HE3	1:k:403:PHE:HB2	1.84	0.42
1:j:168:ALA:HB3	1:j:447:THR:HG21	2.01	0.42
1:k:262:MET:HE3	1:k:542:LEU:O	2.20	0.42
1:o:116:ASN:OD1	1:o:537:ASN:ND2	2.52	0.42
1:r:505:GLY:O	1:r:511:THR:OG1	2.32	0.42
1:s:98:ASN:HD22	1:s:175:ASP:CG	2.28	0.42
1:u:116:ASN:OD1	1:u:537:ASN:ND2	2.52	0.42
1:y:262:MET:HE3	1:y:542:LEU:O	2.20	0.42
1:z:346:GLY:O	1:z:382:ARG:NH1	2.52	0.42
1:1:116:ASN:OD1	1:1:537:ASN:ND2	2.52	0.42
1:2:304:LEU:HB2	1:2:398:GLY:O	2.18	0.42
1:3:262:MET:HE3	1:3:542:LEU:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:116:ASN:OD1	1:5:537:ASN:ND2	2.52	0.42
1:6:346:GLY:O	1:6:382:ARG:NH1	2.52	0.42
1:G:254:ARG:HD3	1:G:536:THR:O	2.20	0.42
1:L:254:ARG:HD3	1:L:536:THR:O	2.20	0.42
1:L:306:ALA:HB3	1:L:318:PRO:HB2	2.02	0.42
1:M:254:ARG:HD3	1:M:536:THR:O	2.20	0.42
1:M:427:ASP:OD2	1:b:535:LYS:NZ	2.32	0.42
1:T:116:ASN:OD1	1:T:537:ASN:ND2	2.52	0.42
1:X:116:ASN:OD1	1:X:537:ASN:ND2	2.52	0.42
1:Y:262:MET:HE3	1:Y:542:LEU:O	2.19	0.42
1:Z:254:ARG:HD3	1:Z:536:THR:O	2.20	0.42
1:a:262:MET:HE3	1:a:542:LEU:O	2.20	0.42
1:c:116:ASN:OD1	1:c:537:ASN:ND2	2.52	0.42
1:e:116:ASN:OD1	1:e:537:ASN:ND2	2.52	0.42
1:g:98:ASN:HD22	1:g:175:ASP:CG	2.28	0.42
1:g:492:ARG:NH1	1:z:512:PRO:HB2	2.34	0.42
1:h:254:ARG:HD3	1:h:536:THR:O	2.20	0.42
1:i:261:LEU:HD13	1:j:193:ILE:HG21	2.02	0.42
1:j:262:MET:HE3	1:j:542:LEU:O	2.19	0.42
1:m:116:ASN:OD1	1:m:537:ASN:ND2	2.52	0.42
1:m:304:LEU:HB2	1:m:398:GLY:O	2.18	0.42
1:o:346:GLY:O	1:o:382:ARG:NH1	2.52	0.42
1:p:304:LEU:HB2	1:p:398:GLY:O	2.18	0.42
1:q:168:ALA:HB3	1:q:447:THR:HG21	2.01	0.42
1:z:254:ARG:HD3	1:z:536:THR:O	2.20	0.42
1:z:306:ALA:HB3	1:z:318:PRO:HB2	2.02	0.42
1:1:262:MET:HE3	1:1:542:LEU:O	2.20	0.42
1:2:168:ALA:HB3	1:2:447:THR:HG21	2.01	0.42
1:5:262:MET:HE3	1:5:542:LEU:O	2.20	0.42
1:8:452:MET:HE1	1:8:471:CYS:CB	2.47	0.42
1:C:98:ASN:HD22	1:C:175:ASP:CG	2.28	0.42
1:C:116:ASN:OD1	1:C:537:ASN:ND2	2.52	0.42
1:D:394:TYR:HD2	1:N:334:ALA:HB1	1.83	0.42
1:E:346:GLY:O	1:E:382:ARG:NH1	2.52	0.42
1:H:262:MET:HE3	1:H:542:LEU:O	2.20	0.42
1:I:168:ALA:HB3	1:I:447:THR:HG21	2.01	0.42
1:N:261:LEU:HD13	1:P:193:ILE:HG21	2.02	0.42
1:P:262:MET:HE3	1:P:542:LEU:O	2.20	0.42
1:R:168:ALA:HB3	1:R:447:THR:HG21	2.01	0.42
1:R:262:MET:HE3	1:R:542:LEU:O	2.20	0.42
1:S:116:ASN:OD1	1:S:537:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:505:GLY:O	1:T:511:THR:OG1	2.32	0.42
1:V:254:ARG:HD3	1:V:536:THR:O	2.20	0.42
1:V:295:THR:HG22	1:e:340:GLY:O	2.20	0.42
1:X:452:MET:HE1	1:X:471:CYS:CB	2.47	0.42
1:a:116:ASN:OD1	1:a:537:ASN:ND2	2.52	0.42
1:c:98:ASN:HD22	1:c:175:ASP:CG	2.28	0.42
1:e:98:ASN:HD22	1:e:175:ASP:CG	2.28	0.42
1:g:306:ALA:HB3	1:g:318:PRO:HB2	2.02	0.42
1:i:320:MET:HG2	1:k:394:TYR:CE1	2.54	0.42
1:l:304:LEU:HB2	1:l:398:GLY:O	2.18	0.42
1:l:346:GLY:O	1:l:382:ARG:NH1	2.52	0.42
1:p:40:THR:HG21	1:p:238:SER:CB	2.46	0.42
1:q:262:MET:HE3	1:q:542:LEU:O	2.20	0.42
1:r:198:GLU:HA	1:r:201:ASP:HB2	2.00	0.42
1:t:254:ARG:HD3	1:t:536:THR:O	2.20	0.42
1:t:507:GLU:C	1:t:509:ASN:H	2.26	0.42
1:u:168:ALA:HB3	1:u:447:THR:HG21	2.01	0.42
1:w:334:ALA:HB1	1:y:394:TYR:HD2	1.84	0.42
1:w:394:TYR:HD2	1:x:334:ALA:HB1	1.84	0.42
1:2:512:PRO:HB2	1:4:492:ARG:NH1	2.34	0.42
1:6:168:ALA:HB3	1:6:447:THR:HG21	2.01	0.42
1:7:262:MET:HE3	1:7:542:LEU:O	2.20	0.42
1:8:254:ARG:HD3	1:8:536:THR:O	2.20	0.42
1:A:74:THR:HG21	1:B:515:HIS:NE2	2.35	0.42
1:B:98:ASN:HD22	1:B:175:ASP:CG	2.28	0.42
1:B:340:GLY:O	1:L:295:THR:HG22	2.20	0.42
1:C:492:ARG:NH1	1:L:512:PRO:HB2	2.34	0.42
1:D:394:TYR:CE1	1:N:320:MET:HG2	2.54	0.42
1:E:89:CYS:HB3	1:F:265:PRO:HG3	2.02	0.42
1:E:262:MET:HE3	1:E:542:LEU:O	2.20	0.42
1:H:306:ALA:HB3	1:H:318:PRO:HB2	2.02	0.42
1:J:512:PRO:HB2	1:K:492:ARG:NH1	2.34	0.42
1:K:254:ARG:HD3	1:K:536:THR:O	2.20	0.42
1:M:98:ASN:HD22	1:M:175:ASP:CG	2.28	0.42
1:Q:98:ASN:HD22	1:Q:175:ASP:CG	2.28	0.42
1:Q:262:MET:HE3	1:Q:542:LEU:O	2.19	0.42
1:S:92:THR:OG1	1:S:190:TYR:O	2.32	0.42
1:S:262:MET:HE3	1:S:542:LEU:O	2.20	0.42
1:T:304:LEU:HB2	1:T:398:GLY:O	2.18	0.42
1:U:116:ASN:OD1	1:U:537:ASN:ND2	2.52	0.42
1:V:304:LEU:HB2	1:V:398:GLY:O	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:489:LYS:O	1:Y:227:ASN:ND2	2.52	0.42
1:Y:254:ARG:HD3	1:Y:536:THR:O	2.20	0.42
1:a:295:THR:HG22	1:8:340:GLY:O	2.20	0.42
1:a:489:LYS:O	1:8:227:ASN:ND2	2.51	0.42
1:c:168:ALA:HB3	1:c:447:THR:HG21	2.01	0.42
1:e:168:ALA:HB3	1:e:447:THR:HG21	2.01	0.42
1:e:262:MET:HE3	1:e:542:LEU:O	2.20	0.42
1:e:512:PRO:HB2	1:f:492:ARG:NH1	2.34	0.42
1:f:295:THR:HG22	1:h:340:GLY:O	2.20	0.42
1:h:98:ASN:HD22	1:h:175:ASP:CG	2.28	0.42
1:h:262:MET:HE3	1:h:542:LEU:O	2.20	0.42
1:h:306:ALA:HB3	1:h:318:PRO:HB2	2.02	0.42
1:i:92:THR:OG1	1:i:190:TYR:O	2.32	0.42
1:o:452:MET:HE1	1:o:471:CYS:CB	2.47	0.42
1:r:116:ASN:OD1	1:r:537:ASN:ND2	2.52	0.42
1:r:262:MET:HE3	1:r:542:LEU:O	2.20	0.42
1:t:92:THR:OG1	1:t:190:TYR:O	2.32	0.42
1:u:295:THR:HG22	1:v:340:GLY:O	2.20	0.42
1:w:262:MET:HE3	1:w:542:LEU:O	2.20	0.42
1:w:346:GLY:O	1:w:382:ARG:NH1	2.52	0.42
1:x:168:ALA:HB3	1:x:447:THR:HG21	2.01	0.42
1:z:295:THR:HG22	1:1:340:GLY:O	2.20	0.42
1:1:98:ASN:HD22	1:1:175:ASP:CG	2.28	0.42
1:3:116:ASN:OD1	1:3:537:ASN:ND2	2.52	0.42
1:4:254:ARG:HD3	1:4:536:THR:O	2.20	0.42
1:6:295:THR:HG22	1:7:340:GLY:O	2.20	0.42
1:7:254:ARG:HD3	1:7:536:THR:O	2.20	0.42
1:A:394:TYR:HD2	1:G:334:ALA:HB1	1.84	0.42
1:C:89:CYS:HB3	1:M:265:PRO:HG3	2.01	0.42
1:C:306:ALA:HB3	1:C:318:PRO:HB2	2.02	0.42
1:E:98:ASN:HD22	1:E:175:ASP:CG	2.28	0.42
1:E:254:ARG:HD3	1:E:536:THR:O	2.20	0.42
1:E:304:LEU:HB2	1:E:398:GLY:O	2.18	0.42
1:E:334:ALA:HB1	1:F:394:TYR:HD2	1.84	0.42
1:E:394:TYR:HD2	1:Q:334:ALA:HB1	1.84	0.42
1:F:505:GLY:O	1:F:511:THR:OG1	2.32	0.42
1:F:515:HIS:NE2	1:G:74:THR:HG21	2.35	0.42
1:G:306:ALA:HB3	1:G:318:PRO:HB2	2.02	0.42
1:M:262:MET:HE3	1:M:542:LEU:O	2.20	0.42
1:M:340:GLY:O	1:b:295:THR:HG22	2.20	0.42
1:N:92:THR:OG1	1:N:190:TYR:O	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:254:ARG:HD3	1:N:536:THR:O	2.20	0.42
1:O:346:GLY:O	1:O:382:ARG:NH1	2.52	0.42
1:P:98:ASN:HD22	1:P:175:ASP:CG	2.28	0.42
1:Q:168:ALA:HB3	1:Q:447:THR:HG21	2.01	0.42
1:Q:254:ARG:HD3	1:Q:536:THR:O	2.20	0.42
1:S:306:ALA:HB3	1:S:318:PRO:HB2	2.02	0.42
1:T:306:ALA:HB3	1:T:318:PRO:HB2	2.02	0.42
1:V:346:GLY:O	1:V:382:ARG:NH1	2.52	0.42
1:W:92:THR:OG1	1:W:190:TYR:O	2.32	0.42
1:W:168:ALA:HB3	1:W:447:THR:HG21	2.01	0.42
1:W:304:LEU:HB2	1:W:398:GLY:O	2.18	0.42
1:X:515:HIS:NE2	1:Y:220:MET:HE3	2.35	0.42
1:Z:304:LEU:HB2	1:Z:398:GLY:O	2.18	0.42
1:c:254:ARG:HD3	1:c:536:THR:O	2.20	0.42
1:c:262:MET:HE3	1:c:542:LEU:O	2.20	0.42
1:c:340:GLY:O	1:p:295:THR:HG22	2.20	0.42
1:d:262:MET:HE3	1:d:542:LEU:O	2.20	0.42
1:e:254:ARG:HD3	1:e:536:THR:O	2.20	0.42
1:g:116:ASN:OD1	1:g:537:ASN:ND2	2.52	0.42
1:i:254:ARG:HD3	1:i:536:THR:O	2.20	0.42
1:i:334:ALA:HB1	1:k:394:TYR:HD2	1.83	0.42
1:j:116:ASN:OD1	1:j:537:ASN:ND2	2.52	0.42
1:m:306:ALA:HB3	1:m:318:PRO:HB2	2.02	0.42
1:n:452:MET:HE1	1:n:471:CYS:CB	2.47	0.42
1:o:92:THR:OG1	1:o:190:TYR:O	2.32	0.42
1:o:515:HIS:NE2	1:7:74:THR:HG21	2.35	0.42
1:p:254:ARG:HD3	1:p:536:THR:O	2.20	0.42
1:r:306:ALA:HB3	1:r:318:PRO:HB2	2.02	0.42
1:s:116:ASN:OD1	1:s:537:ASN:ND2	2.52	0.42
1:t:74:THR:HG21	1:y:515:HIS:NE2	2.35	0.42
1:t:89:CYS:HB3	1:v:265:PRO:HG3	2.02	0.42
1:t:492:ARG:NH1	1:5:512:PRO:HB2	2.34	0.42
1:u:492:ARG:NH1	1:1:512:PRO:HB2	2.34	0.42
1:v:74:THR:HG21	1:1:515:HIS:NE2	2.35	0.42
1:w:89:CYS:HB3	1:y:265:PRO:HG3	2.02	0.42
1:w:98:ASN:HD22	1:w:175:ASP:CG	2.28	0.42
1:w:254:ARG:HD3	1:w:536:THR:O	2.20	0.42
1:x:98:ASN:HD22	1:x:175:ASP:CG	2.28	0.42
1:x:262:MET:HE3	1:x:542:LEU:O	2.19	0.42
1:z:74:THR:HG21	1:4:515:HIS:NE2	2.35	0.42
1:3:89:CYS:HB3	1:4:265:PRO:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:89:CYS:HB3	1:7:265:PRO:HG3	2.02	0.42
1:8:262:MET:HE3	1:8:542:LEU:O	2.20	0.42
1:A:295:THR:HG22	1:G:340:GLY:O	2.20	0.42
1:A:342:ASP:OD1	1:A:343:PRO:HA	2.20	0.42
1:B:89:CYS:HB3	1:L:265:PRO:HG3	2.02	0.42
1:B:512:PRO:HB2	1:I:492:ARG:NH1	2.34	0.42
1:D:92:THR:O	1:D:189:GLN:NE2	2.44	0.42
1:G:342:ASP:OD1	1:G:343:PRO:HA	2.20	0.42
1:H:515:HIS:NE2	1:I:74:THR:HG21	2.35	0.42
1:J:254:ARG:HD3	1:J:536:THR:O	2.20	0.42
1:M:74:THR:HG21	1:c:515:HIS:NE2	2.35	0.42
1:M:306:ALA:HB3	1:M:318:PRO:HB2	2.02	0.42
1:O:265:PRO:HG3	1:m:89:CYS:HB3	2.02	0.42
1:P:116:ASN:OD1	1:P:537:ASN:ND2	2.52	0.42
1:S:346:GLY:O	1:S:382:ARG:NH1	2.52	0.42
1:T:89:CYS:HB3	1:l:265:PRO:HG3	2.02	0.42
1:V:342:ASP:OD1	1:V:343:PRO:HA	2.20	0.42
1:W:262:MET:HE3	1:W:542:LEU:O	2.20	0.42
1:X:40:THR:HG21	1:X:238:SER:CB	2.46	0.42
1:X:334:ALA:HB1	1:e:394:TYR:HD2	1.84	0.42
1:Y:515:HIS:NE2	1:4:220:MET:HE3	2.34	0.42
1:Z:261:LEU:HD13	1:4:193:ILE:HG21	2.02	0.42
1:Z:262:MET:HE3	1:Z:542:LEU:O	2.20	0.42
1:Z:340:GLY:O	1:3:295:THR:HG22	2.20	0.42
1:b:492:ARG:NH1	1:c:512:PRO:HB2	2.34	0.42
1:c:334:ALA:HB1	1:p:394:TYR:HD2	1.84	0.42
1:d:452:MET:HE1	1:d:471:CYS:CB	2.47	0.42
1:e:342:ASP:OD1	1:e:343:PRO:HA	2.20	0.42
1:g:89:CYS:HB3	1:h:265:PRO:HG3	2.01	0.42
1:j:98:ASN:HD22	1:j:175:ASP:CG	2.28	0.42
1:j:254:ARG:HD3	1:j:536:THR:O	2.20	0.42
1:k:346:GLY:O	1:k:382:ARG:NH1	2.52	0.42
1:n:98:ASN:HD22	1:n:175:ASP:CG	2.28	0.42
1:n:254:ARG:HD3	1:n:536:THR:O	2.20	0.42
1:n:262:MET:HE3	1:n:542:LEU:O	2.20	0.42
1:o:168:ALA:HB3	1:o:447:THR:HG21	2.01	0.42
1:o:512:PRO:HB2	1:6:492:ARG:NH1	2.34	0.42
1:p:342:ASP:OD1	1:p:343:PRO:HA	2.20	0.42
1:p:346:GLY:O	1:p:382:ARG:NH1	2.52	0.42
1:t:168:ALA:HB3	1:t:447:THR:HG21	2.01	0.42
1:t:306:ALA:HB3	1:t:318:PRO:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:74:THR:HG21	1:5:515:HIS:NE2	2.35	0.42
1:x:254:ARG:HD3	1:x:536:THR:O	2.20	0.42
1:6:262:MET:HE3	1:6:542:LEU:O	2.20	0.42
1:6:304:LEU:HB2	1:6:398:GLY:O	2.18	0.42
1:8:306:ALA:HB3	1:8:318:PRO:HB2	2.02	0.42
1:A:265:PRO:HG3	1:G:89:CYS:HB3	2.02	0.42
1:A:340:GLY:O	1:I:295:THR:HG22	2.20	0.42
1:A:403:PHE:HB2	1:G:401:TRP:HE3	1.85	0.42
1:B:295:THR:HG22	1:J:340:GLY:O	2.20	0.42
1:B:346:GLY:O	1:B:382:ARG:NH1	2.52	0.42
1:D:346:GLY:O	1:D:382:ARG:NH1	2.52	0.42
1:E:342:ASP:OD1	1:E:343:PRO:HA	2.20	0.42
1:F:74:THR:HG21	1:R:515:HIS:NE2	2.35	0.42
1:G:92:THR:OG1	1:G:190:TYR:O	2.32	0.42
1:G:492:ARG:NH1	1:H:512:PRO:HB2	2.34	0.42
1:H:401:TRP:HE3	1:Y:403:PHE:HB2	1.85	0.42
1:K:265:PRO:HG3	1:a:89:CYS:HB3	2.02	0.42
1:K:452:MET:HE1	1:K:471:CYS:CB	2.47	0.42
1:N:98:ASN:HD22	1:N:175:ASP:CG	2.27	0.42
1:N:168:ALA:HB3	1:N:447:THR:HG21	2.01	0.42
1:N:492:ARG:NH1	1:O:512:PRO:HB2	2.34	0.42
1:P:254:ARG:HD3	1:P:536:THR:O	2.20	0.42
1:P:346:GLY:O	1:P:382:ARG:NH1	2.52	0.42
1:T:124:LYS:HA	1:T:124:LYS:HD2	1.89	0.42
1:T:295:THR:HG22	1:d:340:GLY:O	2.20	0.42
1:T:340:GLY:O	1:l:295:THR:HG22	2.20	0.42
1:U:515:HIS:NE2	1:e:74:THR:HG21	2.35	0.42
1:V:221:PRO:HG3	1:X:256:TYR:CG	2.55	0.42
1:V:394:TYR:HD2	1:e:334:ALA:HB1	1.84	0.42
1:X:168:ALA:HB3	1:X:447:THR:HG21	2.01	0.42
1:X:401:TRP:HE3	1:e:403:PHE:HB2	1.85	0.42
1:Y:92:THR:O	1:Y:189:GLN:NE2	2.44	0.42
1:Y:306:ALA:HB3	1:Y:318:PRO:HB2	2.02	0.42
1:Z:306:ALA:HB3	1:Z:318:PRO:HB2	2.02	0.42
1:b:116:ASN:OD1	1:b:537:ASN:ND2	2.52	0.42
1:c:342:ASP:OD1	1:c:343:PRO:HA	2.20	0.42
1:c:394:TYR:HD2	1:o:334:ALA:HB1	1.84	0.42
1:d:72:TYR:CE1	1:d:92:THR:HG22	2.55	0.42
1:d:98:ASN:HD22	1:d:175:ASP:CG	2.28	0.42
1:d:254:ARG:HD3	1:d:536:THR:O	2.20	0.42
1:f:116:ASN:OD1	1:f:537:ASN:ND2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:346:GLY:O	1:j:382:ARG:NH1	2.52	0.42
1:k:306:ALA:HB3	1:k:318:PRO:HB2	2.02	0.42
1:l:116:ASN:OD1	1:l:537:ASN:ND2	2.52	0.42
1:l:254:ARG:HD3	1:l:536:THR:O	2.20	0.42
1:m:505:GLY:O	1:m:511:THR:OG1	2.32	0.42
1:n:116:ASN:OD1	1:n:537:ASN:ND2	2.52	0.42
1:n:346:GLY:O	1:n:382:ARG:NH1	2.52	0.42
1:o:40:THR:HG21	1:o:238:SER:CB	2.46	0.42
1:r:346:GLY:O	1:r:382:ARG:NH1	2.52	0.42
1:s:262:MET:HE3	1:s:542:LEU:O	2.20	0.42
1:t:334:ALA:HB1	1:v:394:TYR:HD2	1.84	0.42
1:t:342:ASP:OD1	1:t:343:PRO:HA	2.20	0.42
1:w:342:ASP:OD1	1:w:343:PRO:HA	2.20	0.42
1:z:265:PRO:HG3	1:1:89:CYS:HB3	2.02	0.42
1:1:295:THR:HG22	1:2:340:GLY:O	2.20	0.42
1:1:346:GLY:O	1:1:382:ARG:NH1	2.52	0.42
1:2:254:ARG:HD3	1:2:536:THR:O	2.20	0.42
1:3:193:ILE:HG21	1:4:261:LEU:HD13	2.02	0.42
1:5:265:PRO:HG3	1:6:89:CYS:HB3	2.02	0.42
1:5:306:ALA:HB3	1:5:318:PRO:HB2	2.02	0.42
1:7:306:ALA:HB3	1:7:318:PRO:HB2	2.02	0.42
1:7:492:ARG:NH1	1:8:512:PRO:HB2	2.35	0.42
1:8:304:LEU:HB2	1:8:398:GLY:O	2.18	0.42
1:B:67:GLN:NE2	1:B:189:GLN:HB2	2.32	0.42
1:B:72:TYR:CE1	1:B:92:THR:HG22	2.55	0.42
1:D:306:ALA:HB3	1:D:318:PRO:HB2	2.02	0.42
1:E:340:GLY:O	1:F:295:THR:HG22	2.20	0.42
1:G:507:GLU:C	1:G:509:ASN:H	2.26	0.42
1:H:295:THR:HG22	1:W:340:GLY:O	2.20	0.42
1:H:342:ASP:OD1	1:H:343:PRO:HA	2.20	0.42
1:I:72:TYR:CE1	1:I:92:THR:HG22	2.55	0.42
1:K:193:ILE:HG21	1:8:261:LEU:HD13	2.02	0.42
1:K:261:LEU:HD13	1:a:193:ILE:HG21	2.02	0.42
1:K:515:HIS:NE2	1:L:74:THR:HG21	2.35	0.42
1:L:262:MET:HE3	1:L:542:LEU:O	2.20	0.42
1:N:262:MET:HE3	1:N:542:LEU:O	2.19	0.42
1:O:116:ASN:OD1	1:O:537:ASN:ND2	2.52	0.42
1:O:254:ARG:HD3	1:O:536:THR:O	2.20	0.42
1:O:295:THR:HG22	1:m:340:GLY:O	2.20	0.42
1:O:340:GLY:O	1:n:295:THR:HG22	2.20	0.42
1:Q:515:HIS:NE2	1:S:74:THR:HG21	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:262:MET:HE3	1:U:542:LEU:O	2.20	0.42
1:V:72:TYR:CE1	1:V:92:THR:HG22	2.55	0.42
1:V:98:ASN:HD22	1:V:175:ASP:CG	2.28	0.42
1:Y:124:LYS:HA	1:Y:124:LYS:HD2	1.89	0.42
1:Y:452:MET:HE1	1:Y:471:CYS:CB	2.47	0.42
1:c:74:THR:HG21	1:s:515:HIS:NE2	2.35	0.42
1:d:116:ASN:OD1	1:d:537:ASN:ND2	2.52	0.42
1:d:295:THR:HG22	1:l:340:GLY:O	2.20	0.42
1:e:515:HIS:NE2	1:h:74:THR:HG21	2.35	0.42
1:i:168:ALA:HB3	1:i:447:THR:HG21	2.01	0.42
1:i:262:MET:HE3	1:i:542:LEU:O	2.19	0.42
1:i:492:ARG:NH1	1:l:512:PRO:HB2	2.34	0.42
1:m:295:THR:HG22	1:n:340:GLY:O	2.20	0.42
1:n:72:TYR:CE1	1:n:92:THR:HG22	2.55	0.42
1:p:98:ASN:HD22	1:p:175:ASP:CG	2.28	0.42
1:q:515:HIS:NE2	1:y:74:THR:HG21	2.35	0.42
1:r:254:ARG:HD3	1:r:536:THR:O	2.20	0.42
1:t:295:THR:HG22	1:u:340:GLY:O	2.20	0.42
1:v:254:ARG:HD3	1:v:536:THR:O	2.20	0.42
1:v:342:ASP:OD1	1:v:343:PRO:HA	2.20	0.42
1:w:261:LEU:HD13	1:x:193:ILE:HG21	2.02	0.42
1:w:304:LEU:HB2	1:w:398:GLY:O	2.18	0.42
1:y:505:GLY:O	1:y:511:THR:OG1	2.32	0.42
1:1:72:TYR:CE1	1:1:92:THR:HG22	2.55	0.42
1:1:261:LEU:HD13	1:2:193:ILE:HG21	2.02	0.42
1:3:340:GLY:O	1:4:295:THR:HG22	2.20	0.42
1:4:452:MET:HE1	1:4:471:CYS:CB	2.47	0.42
1:5:261:LEU:HD13	1:6:193:ILE:HG21	2.02	0.42
1:5:342:ASP:OD1	1:5:343:PRO:HA	2.20	0.42
1:7:452:MET:HE1	1:7:471:CYS:CB	2.47	0.42
1:A:72:TYR:CE1	1:A:92:THR:HG22	2.55	0.42
1:A:254:ARG:HD3	1:A:536:THR:O	2.20	0.42
1:B:261:LEU:HD13	1:J:193:ILE:HG21	2.02	0.42
1:E:261:LEU:HD13	1:Q:193:ILE:HG21	2.02	0.42
1:F:116:ASN:OD1	1:F:537:ASN:ND2	2.52	0.42
1:F:168:ALA:HB3	1:F:447:THR:HG21	2.01	0.42
1:F:346:GLY:O	1:F:382:ARG:NH1	2.52	0.42
1:G:168:ALA:HB3	1:G:447:THR:HG21	2.01	0.42
1:G:295:THR:HG22	1:I:340:GLY:O	2.20	0.42
1:H:340:GLY:O	1:Y:295:THR:HG22	2.20	0.42
1:H:403:PHE:HB2	1:W:401:TRP:HE3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:342:ASP:OD1	1:J:343:PRO:HA	2.20	0.42
1:J:515:HIS:NE2	1:a:220:MET:HE3	2.35	0.42
1:K:295:THR:HG22	1:a:340:GLY:O	2.20	0.42
1:M:346:GLY:O	1:M:382:ARG:NH1	2.52	0.42
1:N:342:ASP:OD1	1:N:343:PRO:HA	2.20	0.42
1:O:96:TYR:OH	1:O:175:ASP:OD2	2.33	0.42
1:P:342:ASP:OD1	1:P:343:PRO:HA	2.20	0.42
1:Q:72:TYR:CE1	1:Q:92:THR:HG22	2.55	0.42
1:R:74:THR:HG21	1:V:515:HIS:NE2	2.35	0.42
1:R:265:PRO:HG3	1:S:89:CYS:HB3	2.02	0.42
1:S:254:ARG:HD3	1:S:536:THR:O	2.20	0.42
1:S:265:PRO:HG3	1:U:89:CYS:HB3	2.02	0.42
1:T:98:ASN:HD22	1:T:175:ASP:CG	2.28	0.42
1:U:168:ALA:HB3	1:U:447:THR:HG21	2.01	0.42
1:U:299:THR:HG23	1:U:384:GLN:HB3	2.02	0.42
1:V:340:GLY:O	1:X:295:THR:HG22	2.20	0.42
1:W:98:ASN:HD22	1:W:175:ASP:CG	2.28	0.42
1:Z:342:ASP:OD1	1:Z:343:PRO:HA	2.20	0.42
1:b:254:ARG:HD3	1:b:536:THR:O	2.20	0.42
1:c:403:PHE:HB2	1:o:401:TRP:HE3	1.85	0.42
1:d:346:GLY:O	1:d:382:ARG:NH1	2.52	0.42
1:e:96:TYR:OH	1:e:175:ASP:OD2	2.33	0.42
1:g:262:MET:HE3	1:g:542:LEU:O	2.20	0.42
1:i:98:ASN:HD22	1:i:175:ASP:CG	2.28	0.42
1:m:98:ASN:HD22	1:m:175:ASP:CG	2.28	0.42
1:o:256:TYR:CG	1:p:221:PRO:HG3	2.55	0.42
1:o:295:THR:HG22	1:p:340:GLY:O	2.20	0.42
1:p:72:TYR:CE1	1:p:92:THR:HG22	2.55	0.42
1:p:515:HIS:NE2	1:q:74:THR:HG21	2.35	0.42
1:q:265:PRO:HG3	1:r:89:CYS:HB3	2.02	0.42
1:r:74:THR:HG21	1:x:515:HIS:NE2	2.35	0.42
1:u:72:TYR:CE1	1:u:92:THR:HG22	2.55	0.42
1:v:72:TYR:CE1	1:v:92:THR:HG22	2.55	0.42
1:w:340:GLY:O	1:y:295:THR:HG22	2.20	0.42
1:x:72:TYR:CE1	1:x:92:THR:HG22	2.55	0.42
1:y:116:ASN:OD1	1:y:537:ASN:ND2	2.52	0.42
1:y:346:GLY:O	1:y:382:ARG:NH1	2.52	0.42
1:z:92:THR:O	1:z:189:GLN:NE2	2.44	0.42
1:z:262:MET:HE3	1:z:542:LEU:O	2.20	0.42
1:5:221:PRO:HG3	1:7:256:TYR:CG	2.55	0.42
1:5:295:THR:HG22	1:6:340:GLY:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:261:LEU:HD13	1:7:193:ILE:HG21	2.02	0.42
1:7:92:THR:O	1:7:189:GLN:NE2	2.44	0.42
1:7:124:LYS:HA	1:7:124:LYS:HD2	1.90	0.42
1:8:342:ASP:OD1	1:8:343:PRO:HA	2.20	0.42
1:A:306:ALA:HB3	1:A:318:PRO:HB2	2.02	0.41
1:B:392:THR:HG23	1:B:393:THR:HG22	2.02	0.41
1:C:92:THR:OG1	1:C:190:TYR:O	2.32	0.41
1:C:168:ALA:HB3	1:C:447:THR:HG21	2.01	0.41
1:C:262:MET:HE3	1:C:542:LEU:O	2.19	0.41
1:G:515:HIS:NE2	1:W:220:MET:HE3	2.34	0.41
1:I:515:HIS:NE2	1:J:74:THR:HG21	2.35	0.41
1:J:394:TYR:HD2	1:L:334:ALA:HB1	1.84	0.41
1:L:72:TYR:CE1	1:L:92:THR:HG22	2.55	0.41
1:L:92:THR:O	1:L:189:GLN:NE2	2.44	0.41
1:L:342:ASP:OD1	1:L:343:PRO:HA	2.20	0.41
1:N:299:THR:HG23	1:N:384:GLN:HB3	2.02	0.41
1:Q:515:HIS:NE2	1:S:220:MET:HE3	2.35	0.41
1:R:295:THR:HG22	1:S:340:GLY:O	2.20	0.41
1:S:299:THR:HG23	1:S:384:GLN:HB3	2.02	0.41
1:S:342:ASP:OD1	1:S:343:PRO:HA	2.20	0.41
1:U:452:MET:HE1	1:U:471:CYS:CB	2.47	0.41
1:V:193:ILE:HG21	1:X:261:LEU:HD13	2.01	0.41
1:Y:72:TYR:CE1	1:Y:92:THR:HG22	2.55	0.41
1:Z:295:THR:HG22	1:4:340:GLY:O	2.20	0.41
1:a:254:ARG:HD3	1:a:536:THR:O	2.20	0.41
1:c:89:CYS:HB3	1:p:265:PRO:HG3	2.02	0.41
1:d:261:LEU:HD13	1:l:193:ILE:HG21	2.02	0.41
1:g:72:TYR:CE1	1:g:92:THR:HG22	2.55	0.41
1:g:168:ALA:HB3	1:g:447:THR:HG21	2.01	0.41
1:g:346:GLY:O	1:g:382:ARG:NH1	2.52	0.41
1:h:92:THR:O	1:h:189:GLN:NE2	2.44	0.41
1:i:299:THR:HG23	1:i:384:GLN:HB3	2.02	0.41
1:i:342:ASP:OD1	1:i:343:PRO:HA	2.20	0.41
1:k:92:THR:OG1	1:k:190:TYR:O	2.32	0.41
1:k:92:THR:O	1:k:189:GLN:NE2	2.44	0.41
1:k:98:ASN:HD22	1:k:175:ASP:CG	2.27	0.41
1:n:220:MET:HE3	1:r:515:HIS:NE2	2.35	0.41
1:o:72:TYR:CE1	1:o:92:THR:HG22	2.55	0.41
1:q:295:THR:HG22	1:r:340:GLY:O	2.20	0.41
1:r:220:MET:HE3	1:x:515:HIS:NE2	2.35	0.41
1:r:265:PRO:HG3	1:s:89:CYS:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:299:THR:HG23	1:r:384:GLN:HB3	2.02	0.41
1:r:535:LYS:NZ	1:s:427:ASP:OD2	2.32	0.41
1:s:299:THR:HG23	1:s:384:GLN:HB3	2.02	0.41
1:t:256:TYR:CG	1:u:221:PRO:HG3	2.55	0.41
1:t:261:LEU:HD13	1:u:193:ILE:HG21	2.02	0.41
1:t:515:HIS:NE2	1:6:74:THR:HG21	2.35	0.41
1:u:515:HIS:NE2	1:2:74:THR:HG21	2.35	0.41
1:v:306:ALA:HB3	1:v:318:PRO:HB2	2.02	0.41
1:w:72:TYR:CE1	1:w:92:THR:HG22	2.55	0.41
1:y:254:ARG:HD3	1:y:536:THR:O	2.20	0.41
1:z:168:ALA:HB3	1:z:447:THR:HG21	2.01	0.41
1:z:334:ALA:HB1	1:2:394:TYR:HD2	1.84	0.41
1:z:342:ASP:OD1	1:z:343:PRO:HA	2.20	0.41
1:1:392:THR:HG23	1:1:393:THR:HG22	2.02	0.41
1:5:334:ALA:HB1	1:7:394:TYR:HD2	1.84	0.41
1:6:98:ASN:HD22	1:6:175:ASP:CG	2.28	0.41
1:6:256:TYR:CG	1:7:221:PRO:HG3	2.55	0.41
1:7:72:TYR:CE1	1:7:92:THR:HG22	2.55	0.41
1:A:262:MET:HE3	1:A:542:LEU:O	2.20	0.41
1:C:72:TYR:CE1	1:C:92:THR:HG22	2.55	0.41
1:C:254:ARG:HD3	1:C:536:THR:O	2.20	0.41
1:C:346:GLY:O	1:C:382:ARG:NH1	2.52	0.41
1:E:72:TYR:CE1	1:E:92:THR:HG22	2.55	0.41
1:E:193:ILE:HG21	1:F:261:LEU:HD13	2.02	0.41
1:E:265:PRO:HG3	1:Q:89:CYS:HB3	2.02	0.41
1:E:295:THR:HG22	1:Q:340:GLY:O	2.20	0.41
1:E:452:MET:HE1	1:E:471:CYS:CB	2.47	0.41
1:F:254:ARG:HD3	1:F:536:THR:O	2.20	0.41
1:G:256:TYR:CG	1:I:221:PRO:HG3	2.56	0.41
1:G:394:TYR:HD2	1:I:334:ALA:HB1	1.84	0.41
1:G:515:HIS:NE2	1:W:74:THR:HG21	2.35	0.41
1:H:265:PRO:HG3	1:W:89:CYS:HB3	2.02	0.41
1:J:262:MET:HE3	1:J:542:LEU:O	2.20	0.41
1:K:168:ALA:HB3	1:K:447:THR:HG21	2.01	0.41
1:K:262:MET:HE3	1:K:542:LEU:O	2.20	0.41
1:K:340:GLY:O	1:8:295:THR:HG22	2.20	0.41
1:K:515:HIS:NE2	1:L:220:MET:HE3	2.35	0.41
1:L:168:ALA:HB3	1:L:447:THR:HG21	2.01	0.41
1:M:89:CYS:HB3	1:b:265:PRO:HG3	2.02	0.41
1:M:221:PRO:HG3	1:b:256:TYR:CG	2.55	0.41
1:M:515:HIS:NE2	1:N:74:THR:HG21	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:262:MET:HE3	1:O:542:LEU:O	2.20	0.41
1:O:306:ALA:HB3	1:O:318:PRO:HB2	2.02	0.41
1:O:401:TRP:HE3	1:n:403:PHE:HB2	1.85	0.41
1:P:392:THR:HG23	1:P:393:THR:HG22	2.03	0.41
1:S:168:ALA:HB3	1:S:447:THR:HG21	2.01	0.41
1:S:515:HIS:NE2	1:d:220:MET:HE3	2.35	0.41
1:T:221:PRO:HG3	1:l:256:TYR:CG	2.56	0.41
1:T:342:ASP:OD1	1:T:343:PRO:HA	2.20	0.41
1:U:254:ARG:HD3	1:U:536:THR:O	2.20	0.41
1:V:74:THR:HG21	1:W:515:HIS:NE2	2.34	0.41
1:W:72:TYR:CE1	1:W:92:THR:HG22	2.55	0.41
1:X:72:TYR:CE1	1:X:92:THR:HG22	2.55	0.41
1:X:254:ARG:HD3	1:X:536:THR:O	2.20	0.41
1:X:262:MET:HE3	1:X:542:LEU:O	2.20	0.41
1:X:306:ALA:HB3	1:X:318:PRO:HB2	2.02	0.41
1:Y:492:ARG:NH1	1:Z:512:PRO:HB2	2.35	0.41
1:a:342:ASP:OD1	1:a:343:PRO:HA	2.20	0.41
1:f:254:ARG:HD3	1:f:536:THR:O	2.20	0.41
1:f:256:TYR:CG	1:h:221:PRO:HG3	2.55	0.41
1:f:265:PRO:HG3	1:h:89:CYS:HB3	2.02	0.41
1:f:340:GLY:O	1:g:295:THR:HG22	2.20	0.41
1:h:342:ASP:OD1	1:h:343:PRO:HA	2.20	0.41
1:h:346:GLY:O	1:h:382:ARG:NH1	2.52	0.41
1:h:515:HIS:NE2	1:i:74:THR:HG21	2.35	0.41
1:i:116:ASN:OD1	1:i:537:ASN:ND2	2.52	0.41
1:j:342:ASP:OD1	1:j:343:PRO:HA	2.20	0.41
1:l:299:THR:HG23	1:l:384:GLN:HB3	2.03	0.41
1:m:342:ASP:OD1	1:m:343:PRO:HA	2.20	0.41
1:o:306:ALA:HB3	1:o:318:PRO:HB2	2.02	0.41
1:q:92:THR:O	1:q:189:GLN:NE2	2.44	0.41
1:q:306:ALA:HB3	1:q:318:PRO:HB2	2.02	0.41
1:r:168:ALA:HB3	1:r:447:THR:HG21	2.01	0.41
1:r:342:ASP:OD1	1:r:343:PRO:HA	2.20	0.41
1:t:340:GLY:O	1:v:295:THR:HG22	2.20	0.41
1:t:394:TYR:HD2	1:u:334:ALA:HB1	1.84	0.41
1:v:262:MET:HE3	1:v:542:LEU:O	2.20	0.41
1:w:265:PRO:HG3	1:x:89:CYS:HB3	2.02	0.41
1:y:168:ALA:HB3	1:y:447:THR:HG21	2.01	0.41
1:z:72:TYR:CE1	1:z:92:THR:HG22	2.55	0.41
1:2:262:MET:HE3	1:2:542:LEU:O	2.20	0.41
1:2:342:ASP:OD1	1:2:343:PRO:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:515:HIS:NE2	1:3:220:MET:HE3	2.35	0.41
1:3:72:TYR:CE1	1:3:92:THR:HG22	2.55	0.41
1:3:254:ARG:HD3	1:3:536:THR:O	2.20	0.41
1:3:342:ASP:OD1	1:3:343:PRO:HA	2.20	0.41
1:4:262:MET:HE3	1:4:542:LEU:O	2.19	0.41
1:5:72:TYR:CE1	1:5:92:THR:HG22	2.55	0.41
1:A:220:MET:HE3	1:B:515:HIS:NE2	2.35	0.41
1:A:221:PRO:HG3	1:I:256:TYR:CG	2.56	0.41
1:A:515:HIS:NE2	1:E:74:THR:HG21	2.35	0.41
1:B:221:PRO:HG3	1:L:256:TYR:CG	2.56	0.41
1:B:342:ASP:OD1	1:B:343:PRO:HA	2.20	0.41
1:C:340:GLY:O	1:M:295:THR:HG22	2.20	0.41
1:F:401:TRP:HE3	1:Q:403:PHE:HB2	1.86	0.41
1:H:72:TYR:CE1	1:H:92:THR:HG22	2.55	0.41
1:H:515:HIS:NE2	1:I:220:MET:HE3	2.36	0.41
1:I:254:ARG:HD3	1:I:536:THR:O	2.20	0.41
1:J:299:THR:HG23	1:J:384:GLN:HB3	2.02	0.41
1:K:334:ALA:HB1	1:8:394:TYR:HD2	1.84	0.41
1:L:299:THR:HG23	1:L:384:GLN:HB3	2.02	0.41
1:O:193:ILE:HG21	1:n:261:LEU:HD13	2.02	0.41
1:O:256:TYR:CG	1:m:221:PRO:HG3	2.56	0.41
1:O:299:THR:HG23	1:O:384:GLN:HB3	2.03	0.41
1:R:306:ALA:HB3	1:R:318:PRO:HB2	2.02	0.41
1:R:342:ASP:OD1	1:R:343:PRO:HA	2.20	0.41
1:R:392:THR:HG23	1:R:393:THR:HG22	2.02	0.41
1:R:403:PHE:HB2	1:S:401:TRP:HE3	1.86	0.41
1:S:295:THR:HG22	1:U:340:GLY:O	2.20	0.41
1:T:392:THR:HG23	1:T:393:THR:HG22	2.03	0.41
1:U:392:THR:HG23	1:U:393:THR:HG22	2.03	0.41
1:V:265:PRO:HG3	1:e:89:CYS:HB3	2.02	0.41
1:X:98:ASN:HD22	1:X:175:ASP:CG	2.28	0.41
1:Y:98:ASN:HD22	1:Y:175:ASP:CG	2.28	0.41
1:Y:168:ALA:HB3	1:Y:447:THR:HG21	2.01	0.41
1:Z:394:TYR:HD2	1:4:334:ALA:HB1	1.84	0.41
1:a:72:TYR:CE1	1:a:92:THR:HG22	2.55	0.41
1:b:168:ALA:HB3	1:b:447:THR:HG21	2.01	0.41
1:c:96:TYR:OH	1:c:175:ASP:OD2	2.33	0.41
1:c:295:THR:HG22	1:o:340:GLY:O	2.20	0.41
1:d:342:ASP:OD1	1:d:343:PRO:HA	2.20	0.41
1:d:392:THR:HG23	1:d:393:THR:HG22	2.03	0.41
1:d:403:PHE:HB2	1:l:401:TRP:HE3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:254:ARG:HD3	1:g:536:THR:O	2.20	0.41
1:h:168:ALA:HB3	1:h:447:THR:HG21	2.01	0.41
1:j:299:THR:HG23	1:j:384:GLN:HB3	2.03	0.41
1:j:392:THR:HG23	1:j:393:THR:HG22	2.03	0.41
1:k:72:TYR:CE1	1:k:92:THR:HG22	2.55	0.41
1:l:262:MET:HE3	1:l:542:LEU:O	2.20	0.41
1:m:392:THR:HG23	1:m:393:THR:HG22	2.03	0.41
1:n:392:THR:HG23	1:n:393:THR:HG22	2.03	0.41
1:o:254:ARG:HD3	1:o:536:THR:O	2.20	0.41
1:o:261:LEU:HD13	1:p:193:ILE:HG21	2.01	0.41
1:q:193:ILE:HG21	1:s:261:LEU:HD13	2.02	0.41
1:q:256:TYR:CG	1:r:221:PRO:HG3	2.55	0.41
1:q:342:ASP:OD1	1:q:343:PRO:HA	2.20	0.41
1:q:392:THR:HG23	1:q:393:THR:HG22	2.02	0.41
1:s:168:ALA:HB3	1:s:447:THR:HG21	2.01	0.41
1:s:452:MET:HE1	1:s:471:CYS:CB	2.47	0.41
1:t:265:PRO:HG3	1:u:89:CYS:HB3	2.02	0.41
1:u:220:MET:HE3	1:5:515:HIS:NE2	2.36	0.41
1:u:254:ARG:HD3	1:u:536:THR:O	2.20	0.41
1:v:220:MET:HE3	1:1:515:HIS:NE2	2.35	0.41
1:w:295:THR:HG22	1:x:340:GLY:O	2.20	0.41
1:x:299:THR:HG23	1:x:384:GLN:HB3	2.03	0.41
1:x:403:PHE:HB2	1:y:401:TRP:HE3	1.86	0.41
1:z:256:TYR:CG	1:1:221:PRO:HG3	2.56	0.41
1:z:340:GLY:O	1:2:295:THR:HG22	2.20	0.41
1:1:254:ARG:HD3	1:1:536:THR:O	2.20	0.41
1:2:299:THR:HG23	1:2:384:GLN:HB3	2.02	0.41
1:3:515:HIS:NE2	1:8:220:MET:HE3	2.35	0.41
1:3:515:HIS:NE2	1:8:74:THR:HG21	2.35	0.41
1:4:92:THR:O	1:4:189:GLN:NE2	2.44	0.41
1:4:98:ASN:HD22	1:4:175:ASP:CG	2.28	0.41
1:5:98:ASN:HD22	1:5:175:ASP:CG	2.28	0.41
1:5:193:ILE:HG21	1:7:261:LEU:HD13	2.01	0.41
1:6:72:TYR:CE1	1:6:92:THR:HG22	2.55	0.41
1:7:168:ALA:HB3	1:7:447:THR:HG21	2.01	0.41
1:A:89:CYS:HB3	1:I:265:PRO:HG3	2.02	0.41
1:A:96:TYR:OH	1:A:175:ASP:OD2	2.33	0.41
1:A:193:ILE:HG21	1:I:261:LEU:HD13	2.02	0.41
1:B:254:ARG:HD3	1:B:536:THR:O	2.20	0.41
1:B:403:PHE:HB2	1:J:401:TRP:HE3	1.86	0.41
1:C:60:ARG:NH1	1:C:177:MET:HG2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:295:THR:HG22	1:b:340:GLY:O	2.20	0.41
1:C:392:THR:HG23	1:C:393:THR:HG22	2.02	0.41
1:D:60:ARG:NH1	1:D:177:MET:HG2	2.36	0.41
1:D:72:TYR:CE1	1:D:92:THR:HG22	2.55	0.41
1:D:295:THR:HG22	1:N:340:GLY:O	2.19	0.41
1:F:382:ARG:NH2	1:F:411:PHE:HD1	2.19	0.41
1:F:515:HIS:NE2	1:G:220:MET:HE3	2.35	0.41
1:G:261:LEU:HD13	1:I:193:ILE:HG21	2.02	0.41
1:H:254:ARG:HD3	1:H:536:THR:O	2.20	0.41
1:J:295:THR:HG22	1:L:340:GLY:O	2.20	0.41
1:K:60:ARG:NH1	1:K:177:MET:HG2	2.36	0.41
1:K:74:THR:HG21	1:7:515:HIS:NE2	2.35	0.41
1:K:98:ASN:HD22	1:K:175:ASP:CG	2.28	0.41
1:M:168:ALA:HB3	1:M:447:THR:HG21	2.01	0.41
1:M:342:ASP:OD1	1:M:343:PRO:HA	2.20	0.41
1:M:392:THR:HG23	1:M:393:THR:HG22	2.03	0.41
1:N:116:ASN:OD1	1:N:537:ASN:ND2	2.52	0.41
1:N:392:THR:HG23	1:N:393:THR:HG22	2.03	0.41
1:O:74:THR:HG21	1:d:515:HIS:NE2	2.35	0.41
1:P:299:THR:HG23	1:P:384:GLN:HB3	2.03	0.41
1:Q:299:THR:HG23	1:Q:384:GLN:HB3	2.03	0.41
1:R:89:CYS:HB3	1:U:265:PRO:HG3	2.02	0.41
1:R:92:THR:O	1:R:189:GLN:NE2	2.44	0.41
1:R:193:ILE:HG21	1:U:261:LEU:HD13	2.02	0.41
1:R:256:TYR:CG	1:S:221:PRO:HG3	2.55	0.41
1:R:261:LEU:HD13	1:S:193:ILE:HG21	2.02	0.41
1:S:98:ASN:HD22	1:S:175:ASP:CG	2.28	0.41
1:S:256:TYR:CG	1:U:221:PRO:HG3	2.56	0.41
1:S:403:PHE:HB2	1:U:401:TRP:HE3	1.85	0.41
1:T:262:MET:HE3	1:T:542:LEU:O	2.19	0.41
1:T:299:THR:HG23	1:T:384:GLN:HB3	2.02	0.41
1:T:401:TRP:HE3	1:l:403:PHE:HB2	1.86	0.41
1:W:256:TYR:CG	1:Y:221:PRO:HG3	2.56	0.41
1:X:340:GLY:O	1:e:295:THR:HG22	2.20	0.41
1:Z:334:ALA:HB1	1:3:394:TYR:HD2	1.84	0.41
1:b:342:ASP:OD1	1:b:343:PRO:HA	2.20	0.41
1:c:92:THR:OG1	1:c:190:TYR:O	2.32	0.41
1:g:60:ARG:NH1	1:g:177:MET:HG2	2.36	0.41
1:g:221:PRO:HG3	1:h:256:TYR:CG	2.55	0.41
1:g:340:GLY:O	1:h:295:THR:HG22	2.20	0.41
1:g:392:THR:HG23	1:g:393:THR:HG22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:392:THR:HG23	1:h:393:THR:HG22	2.03	0.41
1:i:340:GLY:O	1:k:295:THR:HG22	2.19	0.41
1:i:392:THR:HG23	1:i:393:THR:HG22	2.03	0.41
1:j:67:GLN:NE2	1:j:189:GLN:HB2	2.32	0.41
1:k:60:ARG:NH1	1:k:177:MET:HG2	2.36	0.41
1:l:74:THR:HG21	1:n:515:HIS:NE2	2.35	0.41
1:l:306:ALA:HB3	1:l:318:PRO:HB2	2.02	0.41
1:l:392:THR:HG23	1:l:393:THR:HG22	2.03	0.41
1:m:262:MET:HE3	1:m:542:LEU:O	2.20	0.41
1:n:342:ASP:OD1	1:n:343:PRO:HA	2.20	0.41
1:o:262:MET:HE3	1:o:542:LEU:O	2.20	0.41
1:q:254:ARG:HD3	1:q:536:THR:O	2.20	0.41
1:q:261:LEU:HD13	1:r:193:ILE:HG21	2.02	0.41
1:q:340:GLY:O	1:s:295:THR:HG22	2.20	0.41
1:q:403:PHE:HB2	1:r:401:TRP:HE3	1.86	0.41
1:r:92:THR:OG1	1:r:190:TYR:O	2.32	0.41
1:r:256:TYR:CG	1:s:221:PRO:HG3	2.56	0.41
1:r:295:THR:HG22	1:s:340:GLY:O	2.20	0.41
1:r:403:PHE:HB2	1:s:401:TRP:HE3	1.85	0.41
1:s:72:TYR:CE1	1:s:92:THR:HG22	2.55	0.41
1:s:254:ARG:HD3	1:s:536:THR:O	2.20	0.41
1:s:392:THR:HG23	1:s:393:THR:HG22	2.03	0.41
1:t:401:TRP:HE3	1:v:403:PHE:HB2	1.85	0.41
1:u:261:LEU:HD13	1:v:193:ILE:HG21	2.02	0.41
1:v:124:LYS:HA	1:v:124:LYS:HD2	1.89	0.41
1:v:515:HIS:NE2	1:w:74:THR:HG21	2.35	0.41
1:w:193:ILE:HG21	1:y:261:LEU:HD13	2.02	0.41
1:w:382:ARG:NH2	1:w:411:PHE:HD1	2.19	0.41
1:w:452:MET:HE1	1:w:471:CYS:CB	2.47	0.41
1:z:121:PHE:HB3	1:z:483:VAL:HG12	2.03	0.41
1:z:220:MET:HE3	1:4:515:HIS:NE2	2.36	0.41
1:z:299:THR:HG23	1:z:384:GLN:HB3	2.02	0.41
1:z:452:MET:HE1	1:z:471:CYS:CB	2.47	0.41
1:4:168:ALA:HB3	1:4:447:THR:HG21	2.01	0.41
1:5:340:GLY:O	1:7:295:THR:HG22	2.20	0.41
1:7:92:THR:OG1	1:7:190:TYR:O	2.32	0.41
1:7:98:ASN:HD22	1:7:175:ASP:CG	2.28	0.41
1:B:74:THR:HG21	1:C:515:HIS:NE2	2.35	0.41
1:B:299:THR:HG23	1:B:384:GLN:HB3	2.02	0.41
1:C:265:PRO:HG3	1:b:89:CYS:HB3	2.02	0.41
1:D:92:THR:OG1	1:D:190:TYR:O	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:256:TYR:CG	1:Q:221:PRO:HG3	2.55	0.41
1:E:382:ARG:NH2	1:E:411:PHE:HD1	2.19	0.41
1:F:60:ARG:NH1	1:F:177:MET:HG2	2.36	0.41
1:F:306:ALA:HB3	1:F:318:PRO:HB2	2.02	0.41
1:F:342:ASP:OD1	1:F:343:PRO:HA	2.20	0.41
1:G:265:PRO:HG3	1:I:89:CYS:HB3	2.02	0.41
1:H:168:ALA:HB3	1:H:447:THR:HG21	2.01	0.41
1:L:121:PHE:HB3	1:L:483:VAL:HG12	2.03	0.41
1:M:92:THR:O	1:M:189:GLN:NE2	2.44	0.41
1:M:321:VAL:HG21	1:b:298:MET:HA	2.03	0.41
1:O:221:PRO:HG3	1:n:256:TYR:CG	2.56	0.41
1:O:392:THR:HG23	1:O:393:THR:HG22	2.03	0.41
1:O:403:PHE:HB2	1:m:401:TRP:HE3	1.86	0.41
1:P:67:GLN:NE2	1:P:189:GLN:HB2	2.32	0.41
1:Q:342:ASP:OD1	1:Q:343:PRO:HA	2.20	0.41
1:R:340:GLY:O	1:U:295:THR:HG22	2.20	0.41
1:T:403:PHE:HB2	1:d:401:TRP:HE3	1.85	0.41
1:U:72:TYR:CE1	1:U:92:THR:HG22	2.55	0.41
1:W:306:ALA:HB3	1:W:318:PRO:HB2	2.02	0.41
1:X:121:PHE:HB3	1:X:483:VAL:HG12	2.03	0.41
1:Y:342:ASP:OD1	1:Y:343:PRO:HA	2.20	0.41
1:Z:60:ARG:NH1	1:Z:177:MET:HG2	2.36	0.41
1:Z:74:THR:HG21	1:a:515:HIS:NE2	2.35	0.41
1:Z:89:CYS:HB3	1:3:265:PRO:HG3	2.02	0.41
1:Z:220:MET:HE3	1:a:515:HIS:NE2	2.36	0.41
1:a:60:ARG:NH1	1:a:177:MET:HG2	2.36	0.41
1:a:265:PRO:HG3	1:8:89:CYS:HB3	2.02	0.41
1:c:306:ALA:HB3	1:c:318:PRO:HB2	2.02	0.41
1:d:256:TYR:CG	1:l:221:PRO:HG3	2.56	0.41
1:d:299:THR:HG23	1:d:384:GLN:HB3	2.02	0.41
1:e:306:ALA:HB3	1:e:318:PRO:HB2	2.02	0.41
1:f:168:ALA:HB3	1:f:447:THR:HG21	2.01	0.41
1:f:342:ASP:OD1	1:f:343:PRO:HA	2.20	0.41
1:i:72:TYR:CE1	1:i:92:THR:HG22	2.55	0.41
1:j:220:MET:HE3	1:l:515:HIS:NE2	2.36	0.41
1:k:342:ASP:OD1	1:k:343:PRO:HA	2.20	0.41
1:k:382:ARG:NH2	1:k:411:PHE:HD1	2.19	0.41
1:m:299:THR:HG23	1:m:384:GLN:HB3	2.02	0.41
1:o:98:ASN:HD22	1:o:175:ASP:CG	2.28	0.41
1:p:60:ARG:NH1	1:p:177:MET:HG2	2.36	0.41
1:q:89:CYS:HB3	1:s:265:PRO:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:98:ASN:HD22	1:r:175:ASP:CG	2.28	0.41
1:r:261:LEU:HD13	1:s:193:ILE:HG21	2.02	0.41
1:t:220:MET:HE3	1:y:515:HIS:NE2	2.35	0.41
1:u:256:TYR:CG	1:v:221:PRO:HG3	2.56	0.41
1:u:265:PRO:HG3	1:v:89:CYS:HB3	2.02	0.41
1:u:403:PHE:HB2	1:v:401:TRP:HE3	1.86	0.41
1:x:342:ASP:OD1	1:x:343:PRO:HA	2.20	0.41
1:y:60:ARG:NH1	1:y:177:MET:HG2	2.36	0.41
1:y:306:ALA:HB3	1:y:318:PRO:HB2	2.02	0.41
1:y:382:ARG:NH2	1:y:411:PHE:HD1	2.19	0.41
1:1:299:THR:HG23	1:1:384:GLN:HB3	2.02	0.41
1:1:342:ASP:OD1	1:1:343:PRO:HA	2.20	0.41
1:1:403:PHE:HB2	1:2:401:TRP:HE3	1.86	0.41
1:3:60:ARG:NH1	1:3:177:MET:HG2	2.36	0.41
1:4:60:ARG:NH1	1:4:177:MET:HG2	2.36	0.41
1:5:168:ALA:HB3	1:5:447:THR:HG21	2.01	0.41
1:5:254:ARG:HD3	1:5:536:THR:O	2.20	0.41
1:6:306:ALA:HB3	1:6:318:PRO:HB2	2.02	0.41
1:8:60:ARG:NH1	1:8:177:MET:HG2	2.36	0.41
1:A:392:THR:HG23	1:A:393:THR:HG22	2.03	0.41
1:B:256:TYR:CG	1:J:221:PRO:HG3	2.55	0.41
1:C:92:THR:O	1:C:189:GLN:NE2	2.44	0.41
1:C:221:PRO:HG3	1:M:256:TYR:CG	2.55	0.41
1:D:254:ARG:HD3	1:D:536:THR:O	2.20	0.41
1:D:382:ARG:NH2	1:D:411:PHE:HD1	2.19	0.41
1:E:60:ARG:NH1	1:E:177:MET:HG2	2.36	0.41
1:E:221:PRO:HG3	1:F:256:TYR:CG	2.56	0.41
1:F:72:TYR:CE1	1:F:92:THR:HG22	2.55	0.41
1:G:45:GLY:C	1:W:227:ASN:O	2.64	0.41
1:G:72:TYR:CE1	1:G:92:THR:HG22	2.55	0.41
1:G:299:THR:HG23	1:G:384:GLN:HB3	2.02	0.41
1:H:121:PHE:HB3	1:H:483:VAL:HG12	2.03	0.41
1:I:60:ARG:NH1	1:I:177:MET:HG2	2.36	0.41
1:J:256:TYR:CG	1:L:221:PRO:HG3	2.56	0.41
1:J:382:ARG:NH2	1:J:411:PHE:HD1	2.19	0.41
1:K:121:PHE:HB3	1:K:483:VAL:HG12	2.03	0.41
1:K:342:ASP:OD1	1:K:343:PRO:HA	2.20	0.41
1:N:265:PRO:HG3	1:P:89:CYS:HB3	2.02	0.41
1:O:72:TYR:CE1	1:O:92:THR:HG22	2.55	0.41
1:O:321:VAL:HG21	1:n:298:MET:HA	2.03	0.41
1:O:515:HIS:NE2	1:P:220:MET:HE3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:254:ARG:HD3	1:R:536:THR:O	2.20	0.41
1:R:298:MET:HA	1:S:321:VAL:HG21	2.03	0.41
1:S:261:LEU:HD13	1:U:193:ILE:HG21	2.02	0.41
1:S:515:HIS:NE2	1:d:74:THR:HG21	2.35	0.41
1:T:168:ALA:HB3	1:T:447:THR:HG21	2.01	0.41
1:T:265:PRO:HG3	1:d:89:CYS:HB3	2.02	0.41
1:V:60:ARG:NH1	1:V:177:MET:HG2	2.36	0.41
1:V:256:TYR:CG	1:e:221:PRO:HG3	2.56	0.41
1:W:60:ARG:NH1	1:W:177:MET:HG2	2.36	0.41
1:X:342:ASP:OD1	1:X:343:PRO:HA	2.20	0.41
1:X:392:THR:HG23	1:X:393:THR:HG22	2.03	0.41
1:Y:92:THR:OG1	1:Y:190:TYR:O	2.32	0.41
1:Z:72:TYR:CE1	1:Z:92:THR:HG22	2.55	0.41
1:a:394:TYR:HD2	1:8:334:ALA:HB1	1.84	0.41
1:b:72:TYR:CE1	1:b:92:THR:HG22	2.55	0.41
1:b:121:PHE:HB3	1:b:483:VAL:HG12	2.03	0.41
1:b:124:LYS:CG	1:b:482:GLU:HB2	2.48	0.41
1:c:392:THR:HG23	1:c:393:THR:HG22	2.03	0.41
1:d:121:PHE:HB3	1:d:483:VAL:HG12	2.03	0.41
1:d:265:PRO:HG3	1:l:89:CYS:HB3	2.02	0.41
1:f:72:TYR:CE1	1:f:92:THR:HG22	2.55	0.41
1:f:89:CYS:HB3	1:g:265:PRO:HG3	2.02	0.41
1:f:298:MET:HA	1:h:321:VAL:HG21	2.03	0.41
1:f:306:ALA:HB3	1:f:318:PRO:HB2	2.02	0.41
1:g:515:HIS:NE2	1:l:74:THR:HG21	2.35	0.41
1:j:72:TYR:CE1	1:j:92:THR:HG22	2.55	0.41
1:j:74:THR:HG21	1:l:515:HIS:NE2	2.36	0.41
1:k:254:ARG:HD3	1:k:536:THR:O	2.20	0.41
1:l:72:TYR:CE1	1:l:92:THR:HG22	2.55	0.41
1:l:382:ARG:NH2	1:l:411:PHE:HD1	2.19	0.41
1:m:168:ALA:HB3	1:m:447:THR:HG21	2.01	0.41
1:m:254:ARG:HD3	1:m:536:THR:O	2.20	0.41
1:m:403:PHE:HB2	1:n:401:TRP:HE3	1.85	0.41
1:n:121:PHE:HB3	1:n:483:VAL:HG12	2.03	0.41
1:n:299:THR:HG23	1:n:384:GLN:HB3	2.02	0.41
1:o:121:PHE:HB3	1:o:483:VAL:HG12	2.03	0.41
1:o:342:ASP:OD1	1:o:343:PRO:HA	2.20	0.41
1:o:392:THR:HG23	1:o:393:THR:HG22	2.03	0.41
1:o:515:HIS:NE2	1:7:220:MET:HE3	2.35	0.41
1:q:298:MET:HA	1:r:321:VAL:HG21	2.03	0.41
1:s:306:ALA:HB3	1:s:318:PRO:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:72:TYR:CE1	1:t:92:THR:HG22	2.55	0.41
1:v:348:LEU:HD23	1:v:348:LEU:HA	1.88	0.41
1:w:60:ARG:NH1	1:w:177:MET:HG2	2.36	0.41
1:z:60:ARG:NH1	1:z:177:MET:HG2	2.36	0.41
1:z:382:ARG:NH2	1:z:411:PHE:HD1	2.19	0.41
1:1:256:TYR:CG	1:2:221:PRO:HG3	2.55	0.41
1:2:382:ARG:NH2	1:2:411:PHE:HD1	2.19	0.41
1:5:220:MET:HE3	1:8:515:HIS:NE2	2.35	0.41
1:5:256:TYR:CG	1:6:221:PRO:HG3	2.55	0.41
1:6:60:ARG:NH1	1:6:177:MET:HG2	2.36	0.41
1:7:342:ASP:OD1	1:7:343:PRO:HA	2.20	0.41
1:A:60:ARG:NH1	1:A:177:MET:HG2	2.36	0.41
1:A:299:THR:HG23	1:A:384:GLN:HB3	2.03	0.41
1:B:265:PRO:HG3	1:J:89:CYS:HB3	2.02	0.41
1:B:306:ALA:HB3	1:B:318:PRO:HB2	2.02	0.41
1:B:334:ALA:HB1	1:L:394:TYR:HD2	1.84	0.41
1:C:196:GLU:CD	1:C:199:LEU:HD23	2.46	0.41
1:D:261:LEU:HD13	1:N:193:ILE:HG21	2.03	0.41
1:D:265:PRO:HG3	1:N:89:CYS:HB3	2.03	0.41
1:D:342:ASP:OD1	1:D:343:PRO:HA	2.20	0.41
1:F:392:THR:HG23	1:F:393:THR:HG22	2.03	0.41
1:G:124:LYS:CG	1:G:482:GLU:HB2	2.48	0.41
1:I:392:THR:HG23	1:I:393:THR:HG22	2.03	0.41
1:K:89:CYS:HB3	1:8:265:PRO:HG3	2.02	0.41
1:K:256:TYR:CG	1:a:221:PRO:HG3	2.56	0.41
1:K:401:TRP:HE3	1:8:403:PHE:HB2	1.86	0.41
1:L:60:ARG:NH1	1:L:177:MET:HG2	2.36	0.41
1:L:382:ARG:NH2	1:L:411:PHE:HD1	2.19	0.41
1:L:452:MET:HE1	1:L:471:CYS:CB	2.47	0.41
1:N:72:TYR:CE1	1:N:92:THR:HG22	2.55	0.41
1:N:515:HIS:NE2	1:m:74:THR:HG21	2.35	0.41
1:O:89:CYS:HB3	1:n:265:PRO:HG3	2.02	0.41
1:O:382:ARG:NH2	1:O:411:PHE:HD1	2.19	0.41
1:O:515:HIS:NE2	1:P:74:THR:HG21	2.36	0.41
1:P:72:TYR:CE1	1:P:92:THR:HG22	2.55	0.41
1:P:94:TRP:NE1	1:P:225:LEU:HB2	2.36	0.41
1:P:306:ALA:HB3	1:P:318:PRO:HB2	2.02	0.41
1:Q:306:ALA:HB3	1:Q:318:PRO:HB2	2.02	0.41
1:R:220:MET:HE3	1:V:515:HIS:NE2	2.35	0.41
1:R:221:PRO:HG3	1:U:256:TYR:CG	2.55	0.41
1:R:299:THR:HG23	1:R:384:GLN:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:401:TRP:HE3	1:U:403:PHE:HB2	1.86	0.41
1:S:94:TRP:NE1	1:S:225:LEU:HB2	2.36	0.41
1:T:254:ARG:HD3	1:T:536:THR:O	2.20	0.41
1:T:515:HIS:NE2	1:U:74:THR:HG21	2.35	0.41
1:U:306:ALA:HB3	1:U:318:PRO:HB2	2.02	0.41
1:V:121:PHE:HB3	1:V:483:VAL:HG12	2.03	0.41
1:V:261:LEU:HD13	1:e:193:ILE:HG21	2.02	0.41
1:W:254:ARG:HD3	1:W:536:THR:O	2.20	0.41
1:W:492:ARG:NH1	1:X:512:PRO:HB2	2.35	0.41
1:X:94:TRP:NE1	1:X:225:LEU:HB2	2.36	0.41
1:Y:299:THR:HG23	1:Y:384:GLN:HB3	2.02	0.41
1:Z:403:PHE:HB2	1:4:401:TRP:HE3	1.86	0.41
1:b:306:ALA:HB3	1:b:318:PRO:HB2	2.02	0.41
1:c:60:ARG:NH1	1:c:177:MET:HG2	2.36	0.41
1:c:221:PRO:HG3	1:p:256:TYR:CG	2.56	0.41
1:d:298:MET:HA	1:l:321:VAL:HG21	2.03	0.41
1:d:382:ARG:NH2	1:d:411:PHE:HD1	2.19	0.41
1:e:92:THR:OG1	1:e:190:TYR:O	2.32	0.41
1:e:392:THR:HG23	1:e:393:THR:HG22	2.03	0.41
1:f:94:TRP:NE1	1:f:225:LEU:HB2	2.36	0.41
1:f:121:PHE:HB3	1:f:483:VAL:HG12	2.03	0.41
1:f:193:ILE:HG21	1:g:261:LEU:HD13	2.02	0.41
1:f:299:THR:HG23	1:f:384:GLN:HB3	2.02	0.41
1:f:321:VAL:HG21	1:g:298:MET:HA	2.03	0.41
1:g:220:MET:HE3	1:k:515:HIS:NE2	2.35	0.41
1:g:342:ASP:OD1	1:g:343:PRO:HA	2.20	0.41
1:i:265:PRO:HG3	1:j:89:CYS:HB3	2.02	0.41
1:m:515:HIS:NE2	1:s:220:MET:HE3	2.36	0.41
1:m:515:HIS:NE2	1:s:74:THR:HG21	2.35	0.41
1:o:94:TRP:NE1	1:o:225:LEU:HB2	2.36	0.41
1:q:299:THR:HG23	1:q:384:GLN:HB3	2.02	0.41
1:q:401:TRP:HE3	1:s:403:PHE:HB2	1.86	0.41
1:r:72:TYR:CE1	1:r:92:THR:HG22	2.55	0.41
1:r:94:TRP:NE1	1:r:225:LEU:HB2	2.36	0.41
1:t:221:PRO:HG3	1:v:256:TYR:CG	2.56	0.41
1:u:392:THR:HG23	1:u:393:THR:HG22	2.03	0.41
1:v:60:ARG:NH1	1:v:177:MET:HG2	2.36	0.41
1:v:96:TYR:OH	1:v:175:ASP:OD2	2.33	0.41
1:v:299:THR:HG23	1:v:384:GLN:HB3	2.02	0.41
1:v:392:THR:HG23	1:v:393:THR:HG22	2.03	0.41
1:w:92:THR:O	1:w:189:GLN:NE2	2.44	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:221:PRO:HG3	1:y:256:TYR:CG	2.56	0.41
1:w:256:TYR:CG	1:x:221:PRO:HG3	2.56	0.41
1:x:306:ALA:HB3	1:x:318:PRO:HB2	2.02	0.41
1:y:72:TYR:CE1	1:y:92:THR:HG22	2.55	0.41
1:y:342:ASP:OD1	1:y:343:PRO:HA	2.20	0.41
1:z:221:PRO:HG3	1:2:256:TYR:CG	2.56	0.41
1:1:306:ALA:HB3	1:1:318:PRO:HB2	2.02	0.41
1:3:124:LYS:HD2	1:3:124:LYS:HA	1.90	0.41
1:3:221:PRO:HG3	1:4:256:TYR:CG	2.56	0.41
1:4:50:SER:OG	1:4:51:ASP:N	2.54	0.41
1:4:121:PHE:HB3	1:4:483:VAL:HG12	2.03	0.41
1:4:342:ASP:OD1	1:4:343:PRO:HA	2.20	0.41
1:6:121:PHE:HB3	1:6:483:VAL:HG12	2.03	0.41
1:6:254:ARG:HD3	1:6:536:THR:O	2.20	0.41
1:6:265:PRO:HG3	1:7:89:CYS:HB3	2.02	0.41
1:8:72:TYR:CE1	1:8:92:THR:HG22	2.55	0.41
1:A:401:TRP:HE3	1:I:403:PHE:HB2	1.86	0.41
1:B:321:VAL:HG21	1:L:298:MET:HA	2.03	0.41
1:C:261:LEU:HD13	1:b:193:ILE:HG21	2.02	0.41
1:C:298:MET:HA	1:b:321:VAL:HG21	2.03	0.41
1:C:342:ASP:OD1	1:C:343:PRO:HA	2.20	0.41
1:D:89:CYS:HB3	1:P:265:PRO:HG3	2.02	0.41
1:D:340:GLY:O	1:P:295:THR:HG22	2.21	0.41
1:F:89:CYS:HB3	1:Q:265:PRO:HG3	2.02	0.41
1:F:196:GLU:CD	1:F:199:LEU:HD23	2.46	0.41
1:H:74:THR:HG21	1:Z:515:HIS:NE2	2.36	0.41
1:H:196:GLU:CD	1:H:199:LEU:HD23	2.46	0.41
1:I:306:ALA:HB3	1:I:318:PRO:HB2	2.02	0.41
1:K:92:THR:O	1:K:189:GLN:NE2	2.44	0.41
1:K:299:THR:HG23	1:K:384:GLN:HB3	2.02	0.41
1:N:121:PHE:HB3	1:N:483:VAL:HG12	2.03	0.41
1:N:306:ALA:HB3	1:N:318:PRO:HB2	2.02	0.41
1:O:298:MET:HA	1:m:321:VAL:HG21	2.03	0.41
1:R:321:VAL:HG21	1:U:298:MET:HA	2.03	0.41
1:R:411:PHE:HA	1:R:412:PRO:HD3	1.96	0.41
1:S:60:ARG:NH1	1:S:177:MET:HG2	2.36	0.41
1:S:72:TYR:CE1	1:S:92:THR:HG22	2.55	0.41
1:T:74:THR:HG21	1:i:515:HIS:NE2	2.35	0.41
1:T:121:PHE:HB3	1:T:483:VAL:HG12	2.03	0.41
1:T:261:LEU:HD13	1:d:193:ILE:HG21	2.02	0.41
1:T:515:HIS:NE2	1:U:220:MET:HE3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:94:TRP:NE1	1:U:225:LEU:HB2	2.36	0.41
1:V:121:PHE:HA	1:V:482:GLU:O	2.21	0.41
1:V:321:VAL:HG21	1:X:298:MET:HA	2.03	0.41
1:X:74:THR:HG21	1:f:515:HIS:NE2	2.35	0.41
1:Z:96:TYR:OH	1:Z:175:ASP:OD2	2.33	0.41
1:a:124:LYS:HD2	1:a:124:LYS:HA	1.89	0.41
1:b:94:TRP:NE1	1:b:225:LEU:HB2	2.36	0.41
1:b:196:GLU:CD	1:b:199:LEU:HD23	2.46	0.41
1:c:50:SER:OG	1:c:51:ASP:N	2.54	0.41
1:c:193:ILE:HG21	1:p:261:LEU:HD13	2.02	0.41
1:c:261:LEU:HD13	1:o:193:ILE:HG21	2.02	0.41
1:d:306:ALA:HB3	1:d:318:PRO:HB2	2.02	0.41
1:e:50:SER:OG	1:e:51:ASP:N	2.54	0.41
1:e:60:ARG:NH1	1:e:177:MET:HG2	2.36	0.41
1:f:124:LYS:CG	1:f:482:GLU:HB2	2.48	0.41
1:f:196:GLU:CD	1:f:199:LEU:HD23	2.46	0.41
1:g:196:GLU:CD	1:g:199:LEU:HD23	2.46	0.41
1:i:89:CYS:HB3	1:k:265:PRO:HG3	2.03	0.41
1:i:121:PHE:HB3	1:i:483:VAL:HG12	2.03	0.41
1:i:193:ILE:HG21	1:k:261:LEU:HD13	2.03	0.41
1:i:306:ALA:HB3	1:i:318:PRO:HB2	2.02	0.41
1:j:94:TRP:NE1	1:j:225:LEU:HB2	2.36	0.41
1:j:265:PRO:HG3	1:k:89:CYS:HB3	2.02	0.41
1:j:306:ALA:HB3	1:j:318:PRO:HB2	2.02	0.41
1:m:121:PHE:HB3	1:m:483:VAL:HG12	2.03	0.41
1:m:265:PRO:HG3	1:n:89:CYS:HB3	2.02	0.41
1:n:74:THR:HG21	1:r:515:HIS:NE2	2.35	0.41
1:n:382:ARG:NH2	1:n:411:PHE:HD1	2.19	0.41
1:o:45:GLY:C	1:7:227:ASN:O	2.64	0.41
1:o:298:MET:HA	1:p:321:VAL:HG21	2.03	0.41
1:p:121:PHE:HA	1:p:482:GLU:O	2.21	0.41
1:p:121:PHE:HB3	1:p:483:VAL:HG12	2.03	0.41
1:q:72:TYR:CE1	1:q:92:THR:HG22	2.55	0.41
1:r:60:ARG:NH1	1:r:177:MET:HG2	2.36	0.41
1:s:94:TRP:NE1	1:s:225:LEU:HB2	2.36	0.41
1:s:196:GLU:CD	1:s:199:LEU:HD23	2.46	0.41
1:t:60:ARG:NH1	1:t:177:MET:HG2	2.36	0.41
1:t:299:THR:HG23	1:t:384:GLN:HB3	2.02	0.41
1:u:60:ARG:NH1	1:u:177:MET:HG2	2.36	0.41
1:u:306:ALA:HB3	1:u:318:PRO:HB2	2.02	0.41
1:u:394:TYR:HD2	1:v:334:ALA:HB1	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:50:SER:OG	1:v:51:ASP:N	2.54	0.41
1:x:265:PRO:HG3	1:y:89:CYS:HB3	2.02	0.41
1:x:392:THR:HG23	1:x:393:THR:HG22	2.03	0.41
1:y:196:GLU:CD	1:y:199:LEU:HD23	2.46	0.41
1:y:392:THR:HG23	1:y:393:THR:HG22	2.03	0.41
1:z:298:MET:HA	1:1:321:VAL:HG21	2.03	0.41
1:z:394:TYR:HD2	1:1:334:ALA:HB1	1.84	0.41
1:2:72:TYR:CE1	1:2:92:THR:HG22	2.55	0.41
1:3:98:ASN:HD22	1:3:175:ASP:CG	2.28	0.41
1:5:74:THR:HG21	1:8:515:HIS:NE2	2.36	0.41
1:5:298:MET:HA	1:6:321:VAL:HG21	2.03	0.41
1:6:298:MET:HA	1:7:321:VAL:HG21	2.02	0.41
1:6:382:ARG:NH2	1:6:411:PHE:HD1	2.19	0.41
1:7:94:TRP:NE1	1:7:225:LEU:HB2	2.36	0.41
1:8:299:THR:HG23	1:8:384:GLN:HB3	2.02	0.41
1:A:50:SER:OG	1:A:51:ASP:N	2.54	0.41
1:A:124:LYS:HA	1:A:124:LYS:HD2	1.89	0.41
1:A:515:HIS:NE2	1:E:220:MET:HE3	2.35	0.41
1:B:124:LYS:HD2	1:B:124:LYS:HA	1.89	0.41
1:B:196:GLU:CD	1:B:199:LEU:HD23	2.46	0.41
1:B:382:ARG:NH2	1:B:411:PHE:HD1	2.19	0.41
1:C:74:THR:HG21	1:D:515:HIS:NE2	2.36	0.41
1:C:220:MET:HE3	1:D:515:HIS:NE2	2.35	0.41
1:C:256:TYR:CG	1:b:221:PRO:HG3	2.56	0.41
1:D:196:GLU:CD	1:D:199:LEU:HD23	2.46	0.41
1:E:121:PHE:HB3	1:E:483:VAL:HG12	2.03	0.41
1:E:196:GLU:CD	1:E:199:LEU:HD23	2.46	0.41
1:E:392:THR:HG23	1:E:393:THR:HG22	2.02	0.41
1:E:401:TRP:HE3	1:F:403:PHE:HB2	1.85	0.41
1:F:98:ASN:HD22	1:F:175:ASP:CG	2.28	0.41
1:F:121:PHE:HB3	1:F:483:VAL:HG12	2.03	0.41
1:F:193:ILE:HG21	1:Q:261:LEU:HD13	2.02	0.41
1:F:321:VAL:HG21	1:Q:298:MET:HA	2.03	0.41
1:G:60:ARG:NH1	1:G:177:MET:HG2	2.36	0.41
1:G:382:ARG:NH2	1:G:411:PHE:HD1	2.19	0.41
1:G:392:THR:HG23	1:G:393:THR:HG22	2.02	0.41
1:H:60:ARG:NH1	1:H:177:MET:HG2	2.36	0.41
1:H:94:TRP:NE1	1:H:225:LEU:HB2	2.36	0.41
1:H:220:MET:HE3	1:Z:515:HIS:NE2	2.36	0.41
1:H:261:LEU:HD13	1:W:193:ILE:HG21	2.03	0.41
1:H:382:ARG:NH2	1:H:411:PHE:HD1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:535:LYS:NZ	1:W:427:ASP:OD2	2.31	0.41
1:I:121:PHE:HA	1:I:482:GLU:O	2.21	0.41
1:I:342:ASP:OD1	1:I:343:PRO:HA	2.20	0.41
1:I:540:LYS:O	1:I:540:LYS:HG3	2.21	0.41
1:J:60:ARG:NH1	1:J:177:MET:HG2	2.36	0.41
1:J:72:TYR:CE1	1:J:92:THR:HG22	2.55	0.41
1:J:196:GLU:CD	1:J:199:LEU:HD23	2.46	0.41
1:K:50:SER:OG	1:K:51:ASP:N	2.54	0.41
1:K:94:TRP:NE1	1:K:225:LEU:HB2	2.36	0.41
1:K:121:PHE:HA	1:K:482:GLU:O	2.21	0.41
1:K:403:PHE:HB2	1:a:401:TRP:HE3	1.86	0.41
1:K:540:LYS:O	1:K:540:LYS:HG3	2.21	0.41
1:M:121:PHE:HA	1:M:482:GLU:O	2.21	0.41
1:M:196:GLU:CD	1:M:199:LEU:HD23	2.46	0.41
1:N:60:ARG:NH1	1:N:177:MET:HG2	2.36	0.41
1:N:96:TYR:OH	1:N:175:ASP:OD2	2.33	0.41
1:N:295:THR:HG22	1:P:340:GLY:O	2.20	0.41
1:N:298:MET:HA	1:P:321:VAL:HG21	2.03	0.41
1:O:50:SER:OG	1:O:51:ASP:N	2.54	0.41
1:O:196:GLU:CD	1:O:199:LEU:HD23	2.46	0.41
1:O:261:LEU:HD13	1:m:193:ILE:HG21	2.02	0.41
1:O:342:ASP:OD1	1:O:343:PRO:HA	2.20	0.41
1:P:60:ARG:NH1	1:P:177:MET:HG2	2.36	0.41
1:P:515:HIS:NE2	1:Q:220:MET:HE3	2.36	0.41
1:Q:50:SER:OG	1:Q:51:ASP:N	2.54	0.41
1:Q:382:ARG:NH2	1:Q:411:PHE:HD1	2.19	0.41
1:Q:392:THR:HG23	1:Q:393:THR:HG22	2.03	0.41
1:R:72:TYR:CE1	1:R:92:THR:HG22	2.55	0.41
1:R:196:GLU:CD	1:R:199:LEU:HD23	2.46	0.41
1:R:382:ARG:NH2	1:R:411:PHE:HD1	2.19	0.41
1:T:60:ARG:NH1	1:T:177:MET:HG2	2.36	0.41
1:T:67:GLN:NE2	1:T:189:GLN:HB2	2.32	0.41
1:T:121:PHE:HA	1:T:482:GLU:O	2.21	0.41
1:T:193:ILE:HG21	1:l:261:LEU:HD13	2.02	0.41
1:T:196:GLU:CD	1:T:199:LEU:HD23	2.46	0.41
1:T:321:VAL:HG21	1:l:298:MET:HA	2.03	0.41
1:T:382:ARG:NH2	1:T:411:PHE:HD1	2.19	0.41
1:U:121:PHE:HB3	1:U:483:VAL:HG12	2.03	0.41
1:U:196:GLU:CD	1:U:199:LEU:HD23	2.46	0.41
1:V:94:TRP:NE1	1:V:225:LEU:HB2	2.36	0.41
1:W:121:PHE:HB3	1:W:483:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:342:ASP:OD1	1:W:343:PRO:HA	2.20	0.41
1:W:382:ARG:NH2	1:W:411:PHE:HD1	2.19	0.41
1:X:50:SER:OG	1:X:51:ASP:N	2.54	0.41
1:X:193:ILE:HG21	1:e:261:LEU:HD13	2.02	0.41
1:X:505:GLY:O	1:X:511:THR:OG1	2.32	0.41
1:Y:94:TRP:NE1	1:Y:225:LEU:HB2	2.36	0.41
1:Z:101:GLN:HE21	1:Z:416:GLU:HA	1.86	0.41
1:Z:221:PRO:HG3	1:3:256:TYR:CG	2.56	0.41
1:Z:265:PRO:HG3	1:4:89:CYS:HB3	2.02	0.41
1:Z:298:MET:HA	1:4:321:VAL:HG21	2.03	0.41
1:Z:299:THR:HG23	1:Z:384:GLN:HB3	2.02	0.41
1:a:98:ASN:HD22	1:a:175:ASP:CG	2.28	0.41
1:a:124:LYS:CG	1:a:482:GLU:HB2	2.48	0.41
1:a:256:TYR:CG	1:8:221:PRO:HG3	2.56	0.41
1:a:505:GLY:O	1:a:511:THR:OG1	2.32	0.41
1:b:60:ARG:NH1	1:b:177:MET:HG2	2.36	0.41
1:b:121:PHE:HA	1:b:482:GLU:O	2.21	0.41
1:b:262:MET:HE3	1:b:542:LEU:O	2.20	0.41
1:b:299:THR:HG23	1:b:384:GLN:HB3	2.02	0.41
1:b:515:HIS:NE2	1:o:74:THR:HG21	2.35	0.41
1:c:72:TYR:CE1	1:c:92:THR:HG22	2.55	0.41
1:c:401:TRP:HE3	1:p:403:PHE:HB2	1.85	0.41
1:e:72:TYR:CE1	1:e:92:THR:HG22	2.55	0.41
1:f:121:PHE:HA	1:f:482:GLU:O	2.21	0.41
1:f:221:PRO:HG3	1:g:256:TYR:CG	2.56	0.41
1:f:261:LEU:HD13	1:h:193:ILE:HG21	2.02	0.41
1:f:334:ALA:HB1	1:g:394:TYR:HD2	1.84	0.41
1:g:74:THR:HG21	1:k:515:HIS:NE2	2.36	0.41
1:g:92:THR:O	1:g:189:GLN:NE2	2.44	0.41
1:h:121:PHE:HA	1:h:482:GLU:O	2.21	0.41
1:h:124:LYS:CG	1:h:482:GLU:HB2	2.48	0.41
1:h:196:GLU:CD	1:h:199:LEU:HD23	2.46	0.41
1:i:60:ARG:NH1	1:i:177:MET:HG2	2.36	0.41
1:i:96:TYR:OH	1:i:175:ASP:OD2	2.33	0.41
1:i:295:THR:HG22	1:j:340:GLY:O	2.20	0.41
1:i:298:MET:HA	1:j:321:VAL:HG21	2.03	0.41
1:i:403:PHE:HB2	1:j:401:TRP:HE3	1.86	0.41
1:j:50:SER:OG	1:j:51:ASP:N	2.54	0.41
1:j:60:ARG:NH1	1:j:177:MET:HG2	2.36	0.41
1:j:256:TYR:CG	1:k:221:PRO:HG3	2.55	0.41
1:j:295:THR:HG22	1:k:340:GLY:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:50:SER:OG	1:k:51:ASP:N	2.54	0.41
1:k:196:GLU:CD	1:k:199:LEU:HD23	2.46	0.41
1:l:50:SER:OG	1:l:51:ASP:N	2.54	0.41
1:l:67:GLN:NE2	1:l:189:GLN:HB2	2.32	0.41
1:l:96:TYR:OH	1:l:175:ASP:OD2	2.33	0.41
1:l:98:ASN:HD22	1:l:175:ASP:CG	2.28	0.41
1:l:196:GLU:CD	1:l:199:LEU:HD23	2.46	0.41
1:l:342:ASP:OD1	1:l:343:PRO:HA	2.20	0.41
1:m:60:ARG:NH1	1:m:177:MET:HG2	2.36	0.41
1:m:121:PHE:HA	1:m:482:GLU:O	2.21	0.41
1:m:196:GLU:CD	1:m:199:LEU:HD23	2.46	0.41
1:m:261:LEU:HD13	1:n:193:ILE:HG21	2.02	0.41
1:m:382:ARG:NH2	1:m:411:PHE:HD1	2.19	0.41
1:n:306:ALA:HB3	1:n:318:PRO:HB2	2.02	0.41
1:o:50:SER:OG	1:o:51:ASP:N	2.54	0.41
1:o:196:GLU:CD	1:o:199:LEU:HD23	2.46	0.41
1:o:299:THR:HG23	1:o:384:GLN:HB3	2.02	0.41
1:p:74:THR:HG21	1:6:515:HIS:NE2	2.35	0.41
1:p:94:TRP:NE1	1:p:225:LEU:HB2	2.36	0.41
1:p:515:HIS:NE2	1:q:220:MET:HE3	2.36	0.41
1:q:196:GLU:CD	1:q:199:LEU:HD23	2.46	0.41
1:q:221:PRO:HG3	1:s:256:TYR:CG	2.56	0.41
1:q:321:VAL:HG21	1:s:298:MET:HA	2.03	0.41
1:q:382:ARG:NH2	1:q:411:PHE:HD1	2.19	0.41
1:s:121:PHE:HB3	1:s:483:VAL:HG12	2.03	0.41
1:s:382:ARG:NH2	1:s:411:PHE:HD1	2.19	0.41
1:t:124:LYS:CG	1:t:482:GLU:HB2	2.48	0.41
1:t:392:THR:HG23	1:t:393:THR:HG22	2.02	0.41
1:u:121:PHE:HA	1:u:482:GLU:O	2.21	0.41
1:u:298:MET:HA	1:v:321:VAL:HG21	2.03	0.41
1:u:540:LYS:O	1:u:540:LYS:HG3	2.21	0.41
1:v:515:HIS:NE2	1:w:220:MET:HE3	2.35	0.41
1:w:121:PHE:HB3	1:w:483:VAL:HG12	2.03	0.41
1:w:196:GLU:CD	1:w:199:LEU:HD23	2.46	0.41
1:w:401:TRP:HE3	1:y:403:PHE:HB2	1.85	0.41
1:x:50:SER:OG	1:x:51:ASP:N	2.54	0.41
1:x:295:THR:HG22	1:y:340:GLY:O	2.20	0.41
1:x:298:MET:HA	1:y:321:VAL:HG21	2.03	0.41
1:x:382:ARG:NH2	1:x:411:PHE:HD1	2.19	0.41
1:y:50:SER:OG	1:y:51:ASP:N	2.54	0.41
1:y:98:ASN:HD22	1:y:175:ASP:CG	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:196:GLU:CD	1:1:199:LEU:HD23	2.46	0.41
1:1:265:PRO:HG3	1:2:89:CYS:HB3	2.02	0.41
1:1:382:ARG:NH2	1:1:411:PHE:HD1	2.19	0.41
1:2:60:ARG:NH1	1:2:177:MET:HG2	2.36	0.41
1:2:196:GLU:CD	1:2:199:LEU:HD23	2.46	0.41
1:3:124:LYS:CG	1:3:482:GLU:HB2	2.48	0.41
1:3:401:TRP:HE3	1:4:403:PHE:HB2	1.86	0.41
1:3:505:GLY:O	1:3:511:THR:OG1	2.32	0.41
1:4:94:TRP:NE1	1:4:225:LEU:HB2	2.36	0.41
1:4:101:GLN:HE21	1:4:416:GLU:HA	1.86	0.41
1:4:299:THR:HG23	1:4:384:GLN:HB3	2.02	0.41
1:4:306:ALA:HB3	1:4:318:PRO:HB2	2.02	0.41
1:4:392:THR:HG23	1:4:393:THR:HG22	2.02	0.41
1:4:540:LYS:O	1:4:540:LYS:HG3	2.21	0.41
1:5:50:SER:OG	1:5:51:ASP:N	2.54	0.41
1:5:94:TRP:NE1	1:5:225:LEU:HB2	2.36	0.41
1:5:121:PHE:HB3	1:5:483:VAL:HG12	2.03	0.41
1:5:124:LYS:HA	1:5:124:LYS:HD2	1.90	0.41
1:5:196:GLU:CD	1:5:199:LEU:HD23	2.46	0.41
1:7:299:THR:HG23	1:7:384:GLN:HB3	2.03	0.41
1:A:92:THR:OG1	1:A:190:TYR:O	2.32	0.41
1:A:256:TYR:CG	1:G:221:PRO:HG3	2.56	0.41
1:A:334:ALA:HB1	1:I:394:TYR:HD2	1.84	0.41
1:B:298:MET:HA	1:J:321:VAL:HG21	2.03	0.41
1:C:50:SER:OG	1:C:51:ASP:N	2.54	0.41
1:C:193:ILE:HG21	1:M:261:LEU:HD13	2.01	0.41
1:C:382:ARG:NH2	1:C:411:PHE:HD1	2.19	0.41
1:C:414:THR:HB	1:C:531:CYS:HB3	2.03	0.41
1:D:50:SER:OG	1:D:51:ASP:N	2.54	0.41
1:D:74:THR:HG21	1:E:515:HIS:NE2	2.36	0.41
1:D:221:PRO:HG3	1:P:256:TYR:CG	2.56	0.41
1:D:256:TYR:CG	1:N:221:PRO:HG3	2.56	0.41
1:E:121:PHE:HA	1:E:482:GLU:O	2.21	0.41
1:E:306:ALA:HB3	1:E:318:PRO:HB2	2.02	0.41
1:F:45:GLY:C	1:G:227:ASN:O	2.64	0.41
1:F:50:SER:OG	1:F:51:ASP:N	2.54	0.41
1:G:403:PHE:HB2	1:I:401:TRP:HE3	1.86	0.41
1:H:50:SER:OG	1:H:51:ASP:N	2.54	0.41
1:H:298:MET:HA	1:W:321:VAL:HG21	2.03	0.41
1:H:392:THR:HG23	1:H:393:THR:HG22	2.02	0.41
1:H:411:PHE:HA	1:H:412:PRO:HD3	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:540:LYS:O	1:H:540:LYS:HG3	2.21	0.41
1:I:196:GLU:CD	1:I:199:LEU:HD23	2.46	0.41
1:J:306:ALA:HB3	1:J:318:PRO:HB2	2.02	0.41
1:J:403:PHE:HB2	1:L:401:TRP:HE3	1.85	0.41
1:K:72:TYR:CE1	1:K:92:THR:HG22	2.55	0.41
1:K:101:GLN:HE21	1:K:416:GLU:HA	1.86	0.41
1:K:306:ALA:HB3	1:K:318:PRO:HB2	2.02	0.41
1:K:321:VAL:HG21	1:8:298:MET:HA	2.03	0.41
1:K:382:ARG:NH2	1:K:411:PHE:HD1	2.19	0.41
1:L:101:GLN:HE21	1:L:416:GLU:HA	1.86	0.41
1:L:121:PHE:HA	1:L:482:GLU:O	2.21	0.41
1:M:124:LYS:CG	1:M:482:GLU:HB2	2.48	0.41
1:M:193:ILE:HG21	1:b:261:LEU:HD13	2.02	0.41
1:N:403:PHE:HB2	1:P:401:TRP:HE3	1.86	0.41
1:N:540:LYS:O	1:N:540:LYS:HG3	2.21	0.41
1:P:50:SER:OG	1:P:51:ASP:N	2.54	0.41
1:P:515:HIS:NE2	1:Q:74:THR:HG21	2.35	0.41
1:R:50:SER:OG	1:R:51:ASP:N	2.54	0.41
1:S:121:PHE:HA	1:S:482:GLU:O	2.21	0.41
1:S:124:LYS:CG	1:S:482:GLU:HB2	2.48	0.41
1:S:196:GLU:CD	1:S:199:LEU:HD23	2.46	0.41
1:T:101:GLN:HE21	1:T:416:GLU:HA	1.86	0.41
1:U:382:ARG:NH2	1:U:411:PHE:HD1	2.19	0.41
1:U:414:THR:HB	1:U:531:CYS:HB3	2.04	0.41
1:V:382:ARG:NH2	1:V:411:PHE:HD1	2.19	0.41
1:W:101:GLN:HE21	1:W:416:GLU:HA	1.86	0.41
1:W:299:THR:HG23	1:W:384:GLN:HB3	2.02	0.41
1:X:89:CYS:HB3	1:e:265:PRO:HG3	2.02	0.41
1:X:121:PHE:HA	1:X:482:GLU:O	2.21	0.41
1:X:196:GLU:CD	1:X:199:LEU:HD23	2.46	0.41
1:Y:50:SER:OG	1:Y:51:ASP:N	2.54	0.41
1:Y:101:GLN:HE21	1:Y:416:GLU:HA	1.86	0.41
1:Y:414:THR:HB	1:Y:531:CYS:HB3	2.03	0.41
1:Z:121:PHE:HA	1:Z:482:GLU:O	2.21	0.41
1:Z:196:GLU:CD	1:Z:199:LEU:HD23	2.46	0.41
1:a:121:PHE:HB3	1:a:483:VAL:HG12	2.03	0.41
1:a:299:THR:HG23	1:a:384:GLN:HB3	2.02	0.41
1:c:382:ARG:NH2	1:c:411:PHE:HD1	2.19	0.41
1:e:299:THR:HG23	1:e:384:GLN:HB3	2.02	0.41
1:f:60:ARG:NH1	1:f:177:MET:HG2	2.36	0.41
1:f:227:ASN:O	1:z:45:GLY:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:262:MET:HE3	1:f:542:LEU:O	2.20	0.41
1:f:382:ARG:NH2	1:f:411:PHE:HD1	2.19	0.41
1:g:50:SER:OG	1:g:51:ASP:N	2.54	0.41
1:g:382:ARG:NH2	1:g:411:PHE:HD1	2.19	0.41
1:h:60:ARG:NH1	1:h:177:MET:HG2	2.36	0.41
1:h:515:HIS:NE2	1:i:220:MET:HE3	2.36	0.41
1:i:382:ARG:NH2	1:i:411:PHE:HD1	2.19	0.41
1:i:540:LYS:O	1:i:540:LYS:HG3	2.21	0.41
1:j:515:HIS:NE2	1:x:220:MET:HE3	2.36	0.41
1:m:67:GLN:NE2	1:m:189:GLN:HB2	2.32	0.41
1:m:101:GLN:HE21	1:m:416:GLU:HA	1.86	0.41
1:o:121:PHE:HA	1:o:482:GLU:O	2.21	0.41
1:o:124:LYS:HD2	1:o:124:LYS:HA	1.90	0.41
1:o:505:GLY:O	1:o:511:THR:OG1	2.32	0.41
1:p:220:MET:HE3	1:6:515:HIS:NE2	2.35	0.41
1:p:382:ARG:NH2	1:p:411:PHE:HD1	2.19	0.41
1:p:411:PHE:HA	1:p:412:PRO:HD3	1.96	0.41
1:q:45:GLY:C	1:y:227:ASN:O	2.64	0.41
1:q:50:SER:OG	1:q:51:ASP:N	2.54	0.41
1:q:98:ASN:HD22	1:q:175:ASP:CG	2.28	0.41
1:r:121:PHE:HA	1:r:482:GLU:O	2.21	0.41
1:r:196:GLU:CD	1:r:199:LEU:HD23	2.46	0.41
1:s:342:ASP:OD1	1:s:343:PRO:HA	2.20	0.41
1:s:414:THR:HB	1:s:531:CYS:HB3	2.04	0.41
1:t:382:ARG:NH2	1:t:411:PHE:HD1	2.19	0.41
1:u:196:GLU:CD	1:u:199:LEU:HD23	2.46	0.41
1:u:342:ASP:OD1	1:u:343:PRO:HA	2.20	0.41
1:v:121:PHE:HA	1:v:482:GLU:O	2.21	0.41
1:w:121:PHE:HA	1:w:482:GLU:O	2.21	0.41
1:w:306:ALA:HB3	1:w:318:PRO:HB2	2.02	0.41
1:w:392:THR:HG23	1:w:393:THR:HG22	2.02	0.41
1:y:94:TRP:NE1	1:y:225:LEU:HB2	2.36	0.41
1:y:121:PHE:HB3	1:y:483:VAL:HG12	2.03	0.41
1:z:101:GLN:HE21	1:z:416:GLU:HA	1.86	0.41
1:1:121:PHE:HB3	1:1:483:VAL:HG12	2.03	0.41
1:2:306:ALA:HB3	1:2:318:PRO:HB2	2.02	0.41
1:2:515:HIS:NE2	1:3:74:THR:HG21	2.35	0.41
1:3:45:GLY:C	1:8:227:ASN:O	2.64	0.41
1:3:50:SER:OG	1:3:51:ASP:N	2.54	0.41
1:3:67:GLN:NE2	1:3:189:GLN:HB2	2.32	0.41
1:4:121:PHE:HA	1:4:482:GLU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:382:ARG:NH2	1:4:411:PHE:HD1	2.19	0.41
1:5:60:ARG:NH1	1:5:177:MET:HG2	2.36	0.41
1:5:382:ARG:NH2	1:5:411:PHE:HD1	2.19	0.41
1:5:540:LYS:O	1:5:540:LYS:HG3	2.21	0.41
1:6:342:ASP:OD1	1:6:343:PRO:HA	2.20	0.41
1:7:101:GLN:HE21	1:7:416:GLU:HA	1.86	0.41
1:7:414:THR:HB	1:7:531:CYS:HB3	2.03	0.41
1:8:101:GLN:HE21	1:8:416:GLU:HA	1.86	0.41
1:8:121:PHE:HA	1:8:482:GLU:O	2.21	0.41
1:8:414:THR:HB	1:8:531:CYS:HB3	2.03	0.41
1:A:121:PHE:HA	1:A:482:GLU:O	2.21	0.40
1:A:321:VAL:HG21	1:I:298:MET:HA	2.03	0.40
1:A:414:THR:HB	1:A:531:CYS:HB3	2.03	0.40
1:B:60:ARG:NH1	1:B:177:MET:HG2	2.36	0.40
1:B:94:TRP:NE1	1:B:225:LEU:HB2	2.36	0.40
1:B:121:PHE:HB3	1:B:483:VAL:HG12	2.03	0.40
1:C:94:TRP:NE1	1:C:225:LEU:HB2	2.36	0.40
1:C:394:TYR:HD2	1:b:334:ALA:HB1	1.84	0.40
1:D:98:ASN:HD22	1:D:175:ASP:CG	2.27	0.40
1:D:274:TYR:O	1:N:354:GLU:HG2	2.21	0.40
1:F:94:TRP:NE1	1:F:225:LEU:HB2	2.36	0.40
1:F:227:ASN:O	1:R:45:GLY:C	2.65	0.40
1:F:340:GLY:O	1:Q:295:THR:HG22	2.20	0.40
1:H:45:GLY:C	1:I:227:ASN:O	2.65	0.40
1:H:193:ILE:HG21	1:Y:261:LEU:HD13	2.02	0.40
1:H:354:GLU:HG2	1:Y:274:TYR:O	2.21	0.40
1:J:265:PRO:HG3	1:L:89:CYS:HB3	2.02	0.40
1:K:392:THR:HG23	1:K:393:THR:HG22	2.03	0.40
1:L:45:GLY:C	1:b:227:ASN:O	2.64	0.40
1:M:60:ARG:NH1	1:M:177:MET:HG2	2.36	0.40
1:M:72:TYR:CE1	1:M:92:THR:HG22	2.55	0.40
1:M:515:HIS:NE2	1:N:220:MET:HE3	2.36	0.40
1:N:196:GLU:CD	1:N:199:LEU:HD23	2.46	0.40
1:N:382:ARG:NH2	1:N:411:PHE:HD1	2.19	0.40
1:N:414:THR:HB	1:N:531:CYS:HB3	2.03	0.40
1:O:67:GLN:NE2	1:O:189:GLN:HB2	2.32	0.40
1:O:98:ASN:HD22	1:O:175:ASP:CG	2.28	0.40
1:R:96:TYR:OH	1:R:175:ASP:OD2	2.33	0.40
1:R:98:ASN:HD22	1:R:175:ASP:CG	2.28	0.40
1:R:101:GLN:HE21	1:R:416:GLU:HA	1.86	0.40
1:R:121:PHE:HA	1:R:482:GLU:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:199:LEU:HD13	1:T:199:LEU:HA	1.94	0.40
1:U:342:ASP:OD1	1:U:343:PRO:HA	2.20	0.40
1:V:403:PHE:HB2	1:e:401:TRP:HE3	1.86	0.40
1:W:261:LEU:HD13	1:Y:193:ILE:HG21	2.03	0.40
1:X:299:THR:HG23	1:X:384:GLN:HB3	2.02	0.40
1:Y:121:PHE:HA	1:Y:482:GLU:O	2.21	0.40
1:Y:199:LEU:HD13	1:Y:199:LEU:HA	1.94	0.40
1:Y:382:ARG:NH2	1:Y:411:PHE:HD1	2.19	0.40
1:Z:256:TYR:CG	1:4:221:PRO:HG3	2.55	0.40
1:a:50:SER:OG	1:a:51:ASP:N	2.54	0.40
1:a:67:GLN:NE2	1:a:189:GLN:HB2	2.32	0.40
1:a:94:TRP:NE1	1:a:225:LEU:HB2	2.36	0.40
1:a:306:ALA:HB3	1:a:318:PRO:HB2	2.02	0.40
1:a:540:LYS:O	1:a:540:LYS:HG3	2.21	0.40
1:b:382:ARG:NH2	1:b:411:PHE:HD1	2.19	0.40
1:d:50:SER:OG	1:d:51:ASP:N	2.54	0.40
1:e:94:TRP:NE1	1:e:225:LEU:HB2	2.36	0.40
1:e:382:ARG:NH2	1:e:411:PHE:HD1	2.19	0.40
1:f:220:MET:HE3	1:z:515:HIS:NE2	2.35	0.40
1:g:94:TRP:NE1	1:g:225:LEU:HB2	2.36	0.40
1:g:515:HIS:NE2	1:1:220:MET:HE3	2.36	0.40
1:h:50:SER:OG	1:h:51:ASP:N	2.54	0.40
1:i:221:PRO:HG3	1:k:256:TYR:CG	2.56	0.40
1:i:256:TYR:CG	1:j:221:PRO:HG3	2.55	0.40
1:j:261:LEU:HD13	1:k:193:ILE:HG21	2.02	0.40
1:m:72:TYR:CE1	1:m:92:THR:HG22	2.55	0.40
1:m:94:TRP:NE1	1:m:225:LEU:HB2	2.36	0.40
1:n:50:SER:OG	1:n:51:ASP:N	2.54	0.40
1:q:121:PHE:HA	1:q:482:GLU:O	2.21	0.40
1:q:411:PHE:HA	1:q:412:PRO:HD3	1.96	0.40
1:r:50:SER:OG	1:r:51:ASP:N	2.54	0.40
1:t:193:ILE:HG21	1:v:261:LEU:HD13	2.02	0.40
1:t:227:ASN:O	1:y:45:GLY:C	2.64	0.40
1:u:348:LEU:HD23	1:u:348:LEU:HA	1.88	0.40
1:u:515:HIS:NE2	1:2:220:MET:HE3	2.35	0.40
1:x:261:LEU:HD13	1:y:193:ILE:HG21	2.02	0.40
1:z:89:CYS:HB3	1:2:265:PRO:HG3	2.02	0.40
1:z:121:PHE:HA	1:z:482:GLU:O	2.21	0.40
1:z:193:ILE:HG21	1:2:261:LEU:HD13	2.02	0.40
1:z:261:LEU:HD13	1:1:193:ILE:HG21	2.02	0.40
1:1:60:ARG:NH1	1:1:177:MET:HG2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:92:THR:O	1:1:189:GLN:NE2	2.44	0.40
1:1:298:MET:HA	1:2:321:VAL:HG21	2.03	0.40
1:3:121:PHE:HB3	1:3:483:VAL:HG12	2.03	0.40
1:3:540:LYS:O	1:3:540:LYS:HG3	2.21	0.40
1:4:72:TYR:CE1	1:4:92:THR:HG22	2.55	0.40
1:5:121:PHE:HA	1:5:482:GLU:O	2.21	0.40
1:5:321:VAL:HG21	1:7:298:MET:HA	2.03	0.40
1:5:392:THR:HG23	1:5:393:THR:HG22	2.03	0.40
1:6:94:TRP:NE1	1:6:225:LEU:HB2	2.36	0.40
1:6:101:GLN:HE21	1:6:416:GLU:HA	1.86	0.40
1:6:299:THR:HG23	1:6:384:GLN:HB3	2.02	0.40
1:7:50:SER:OG	1:7:51:ASP:N	2.54	0.40
1:7:382:ARG:NH2	1:7:411:PHE:HD1	2.19	0.40
1:8:196:GLU:CD	1:8:199:LEU:HD23	2.46	0.40
1:A:298:MET:HA	1:G:321:VAL:HG21	2.03	0.40
1:A:348:LEU:HD23	1:A:348:LEU:HA	1.88	0.40
1:B:92:THR:O	1:B:189:GLN:NE2	2.44	0.40
1:B:220:MET:HE3	1:C:515:HIS:NE2	2.36	0.40
1:C:540:LYS:O	1:C:540:LYS:HG3	2.21	0.40
1:D:193:ILE:HG21	1:P:261:LEU:HD13	2.02	0.40
1:D:220:MET:HE3	1:E:515:HIS:NE2	2.35	0.40
1:E:321:VAL:HG21	1:F:298:MET:HA	2.03	0.40
1:F:220:MET:HE3	1:R:515:HIS:NE2	2.35	0.40
1:G:94:TRP:NE1	1:G:225:LEU:HB2	2.36	0.40
1:G:121:PHE:HA	1:G:482:GLU:O	2.21	0.40
1:H:121:PHE:HA	1:H:482:GLU:O	2.21	0.40
1:J:261:LEU:HD13	1:L:193:ILE:HG21	2.02	0.40
1:J:298:MET:HA	1:L:321:VAL:HG21	2.03	0.40
1:J:515:HIS:NE2	1:a:74:THR:HG21	2.35	0.40
1:K:196:GLU:CD	1:K:199:LEU:HD23	2.46	0.40
1:M:50:SER:OG	1:M:51:ASP:N	2.54	0.40
1:M:266:LYS:HD3	1:M:266:LYS:HA	1.93	0.40
1:M:299:THR:HG23	1:M:384:GLN:HB3	2.02	0.40
1:M:420:TRP:CH2	1:M:445:PRO:HG2	2.57	0.40
1:O:227:ASN:O	1:d:45:GLY:C	2.65	0.40
1:Q:94:TRP:NE1	1:Q:225:LEU:HB2	2.36	0.40
1:R:199:LEU:HD13	1:R:199:LEU:HA	1.94	0.40
1:S:50:SER:OG	1:S:51:ASP:N	2.54	0.40
1:S:392:THR:HG23	1:S:393:THR:HG22	2.02	0.40
1:T:72:TYR:CE1	1:T:92:THR:HG22	2.55	0.40
1:T:94:TRP:NE1	1:T:225:LEU:HB2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:299:THR:HG23	1:V:384:GLN:HB3	2.02	0.40
1:V:306:ALA:HB3	1:V:318:PRO:HB2	2.02	0.40
1:W:94:TRP:NE1	1:W:225:LEU:HB2	2.36	0.40
1:X:227:ASN:O	1:f:45:GLY:C	2.64	0.40
1:Y:60:ARG:NH1	1:Y:177:MET:HG2	2.36	0.40
1:Y:196:GLU:CD	1:Y:199:LEU:HD23	2.46	0.40
1:Z:193:ILE:HG21	1:3:261:LEU:HD13	2.02	0.40
1:Z:227:ASN:O	1:a:45:GLY:C	2.65	0.40
1:Z:392:THR:HG23	1:Z:393:THR:HG22	2.02	0.40
1:Z:414:THR:HB	1:Z:531:CYS:HB3	2.04	0.40
1:a:382:ARG:NH2	1:a:411:PHE:HD1	2.19	0.40
1:a:420:TRP:CH2	1:a:445:PRO:HG2	2.57	0.40
1:b:420:TRP:CH2	1:b:445:PRO:HG2	2.57	0.40
1:c:94:TRP:NE1	1:c:225:LEU:HB2	2.36	0.40
1:c:265:PRO:HG3	1:o:89:CYS:HB3	2.02	0.40
1:c:299:THR:HG23	1:c:384:GLN:HB3	2.02	0.40
1:e:196:GLU:CD	1:e:199:LEU:HD23	2.46	0.40
1:e:505:GLY:O	1:e:511:THR:OG1	2.32	0.40
1:f:420:TRP:CH2	1:f:445:PRO:HG2	2.57	0.40
1:g:124:LYS:HA	1:g:124:LYS:HD2	1.90	0.40
1:g:193:ILE:HG21	1:h:261:LEU:HD13	2.01	0.40
1:g:414:THR:HB	1:g:531:CYS:HB3	2.04	0.40
1:g:540:LYS:O	1:g:540:LYS:HG3	2.21	0.40
1:h:72:TYR:CE1	1:h:92:THR:HG22	2.55	0.40
1:i:196:GLU:CD	1:i:199:LEU:HD23	2.46	0.40
1:i:354:GLU:HG2	1:k:274:TYR:O	2.21	0.40
1:i:414:THR:HB	1:i:531:CYS:HB3	2.03	0.40
1:j:515:HIS:NE2	1:x:74:THR:HG21	2.35	0.40
1:k:74:THR:HG21	1:w:515:HIS:NE2	2.36	0.40
1:l:195:ILE:HD13	1:l:200:ALA:HB2	2.04	0.40
1:l:227:ASN:O	1:n:45:GLY:C	2.65	0.40
1:m:50:SER:OG	1:m:51:ASP:N	2.54	0.40
1:n:196:GLU:CD	1:n:199:LEU:HD23	2.46	0.40
1:n:540:LYS:O	1:n:540:LYS:HG3	2.21	0.40
1:p:195:ILE:HD13	1:p:200:ALA:HB2	2.04	0.40
1:p:299:THR:HG23	1:p:384:GLN:HB3	2.02	0.40
1:p:306:ALA:HB3	1:p:318:PRO:HB2	2.02	0.40
1:p:414:THR:HB	1:p:531:CYS:HB3	2.03	0.40
1:s:348:LEU:HD23	1:s:348:LEU:HA	1.88	0.40
1:t:121:PHE:HA	1:t:482:GLU:O	2.21	0.40
1:t:515:HIS:NE2	1:6:220:MET:HE3	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:101:GLN:HE21	1:u:416:GLU:HA	1.86	0.40
1:u:227:ASN:O	1:5:45:GLY:C	2.65	0.40
1:x:94:TRP:NE1	1:x:225:LEU:HB2	2.36	0.40
1:y:121:PHE:HA	1:y:482:GLU:O	2.21	0.40
1:z:401:TRP:HE3	1:2:403:PHE:HB2	1.85	0.40
1:1:94:TRP:NE1	1:1:225:LEU:HB2	2.36	0.40
1:1:121:PHE:HA	1:1:482:GLU:O	2.21	0.40
1:1:124:LYS:HD2	1:1:124:LYS:HA	1.89	0.40
1:2:121:PHE:HB3	1:2:483:VAL:HG12	2.03	0.40
1:3:94:TRP:NE1	1:3:225:LEU:HB2	2.36	0.40
1:3:299:THR:HG23	1:3:384:GLN:HB3	2.03	0.40
1:3:420:TRP:CH2	1:3:445:PRO:HG2	2.57	0.40
1:7:121:PHE:HA	1:7:482:GLU:O	2.21	0.40
1:A:382:ARG:NH2	1:A:411:PHE:HD1	2.19	0.40
1:B:193:ILE:HG21	1:L:261:LEU:HD13	2.02	0.40
1:C:420:TRP:CH2	1:C:445:PRO:HG2	2.57	0.40
1:D:121:PHE:HB3	1:D:483:VAL:HG12	2.03	0.40
1:D:401:TRP:HE3	1:P:403:PHE:HB2	1.86	0.40
1:E:414:THR:HB	1:E:531:CYS:HB3	2.03	0.40
1:F:121:PHE:HA	1:F:482:GLU:O	2.21	0.40
1:G:50:SER:OG	1:G:51:ASP:N	2.54	0.40
1:H:101:GLN:HE21	1:H:416:GLU:HA	1.86	0.40
1:H:124:LYS:HA	1:H:124:LYS:HD2	1.90	0.40
1:I:101:GLN:HE21	1:I:416:GLU:HA	1.87	0.40
1:I:414:THR:HB	1:I:531:CYS:HB3	2.03	0.40
1:I:515:HIS:NE2	1:J:220:MET:HE3	2.35	0.40
1:J:45:GLY:C	1:a:227:ASN:O	2.65	0.40
1:J:50:SER:OG	1:J:51:ASP:N	2.54	0.40
1:J:372:ILE:HD11	1:J:525:PRO:O	2.22	0.40
1:K:45:GLY:C	1:L:227:ASN:O	2.65	0.40
1:K:220:MET:HE3	1:7:515:HIS:NE2	2.36	0.40
1:K:221:PRO:HG3	1:8:256:TYR:CG	2.55	0.40
1:L:420:TRP:CH2	1:L:445:PRO:HG2	2.57	0.40
1:M:372:ILE:HD11	1:M:525:PRO:O	2.22	0.40
1:N:256:TYR:CG	1:P:221:PRO:HG3	2.55	0.40
1:N:515:HIS:NE2	1:m:220:MET:HE3	2.36	0.40
1:O:94:TRP:NE1	1:O:225:LEU:HB2	2.36	0.40
1:O:121:PHE:HB3	1:O:483:VAL:HG12	2.03	0.40
1:O:195:ILE:HD13	1:O:200:ALA:HB2	2.04	0.40
1:O:420:TRP:CH2	1:O:445:PRO:HG2	2.57	0.40
1:P:372:ILE:HD11	1:P:525:PRO:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:60:ARG:NH1	1:Q:177:MET:HG2	2.36	0.40
1:T:50:SER:OG	1:T:51:ASP:N	2.54	0.40
1:T:220:MET:HE3	1:i:515:HIS:NE2	2.35	0.40
1:V:227:ASN:O	1:W:45:GLY:C	2.64	0.40
1:V:298:MET:HA	1:e:321:VAL:HG21	2.03	0.40
1:V:372:ILE:HD11	1:V:525:PRO:O	2.22	0.40
1:V:414:THR:HB	1:V:531:CYS:HB3	2.03	0.40
1:W:50:SER:OG	1:W:51:ASP:N	2.54	0.40
1:X:221:PRO:HG3	1:e:256:TYR:CG	2.56	0.40
1:X:372:ILE:HD11	1:X:525:PRO:O	2.22	0.40
1:Z:321:VAL:HG21	1:3:298:MET:HA	2.03	0.40
1:a:403:PHE:HB2	1:8:401:TRP:HE3	1.85	0.40
1:b:45:GLY:C	1:o:227:ASN:O	2.64	0.40
1:c:220:MET:HE3	1:s:515:HIS:NE2	2.35	0.40
1:c:256:TYR:CG	1:o:221:PRO:HG3	2.55	0.40
1:d:195:ILE:HD13	1:d:200:ALA:HB2	2.04	0.40
1:d:196:GLU:CD	1:d:199:LEU:HD23	2.46	0.40
1:d:540:LYS:O	1:d:540:LYS:HG3	2.21	0.40
1:e:515:HIS:NE2	1:h:220:MET:HE3	2.36	0.40
1:f:74:THR:HG21	1:z:515:HIS:NE2	2.35	0.40
1:f:101:GLN:HE21	1:f:416:GLU:HA	1.86	0.40
1:f:401:TRP:HE3	1:g:403:PHE:HB2	1.86	0.40
1:g:420:TRP:CH2	1:g:445:PRO:HG2	2.57	0.40
1:h:299:THR:HG23	1:h:384:GLN:HB3	2.02	0.40
1:h:372:ILE:HD11	1:h:525:PRO:O	2.22	0.40
1:h:420:TRP:CH2	1:h:445:PRO:HG2	2.57	0.40
1:i:50:SER:OG	1:i:51:ASP:N	2.54	0.40
1:j:372:ILE:HD11	1:j:525:PRO:O	2.22	0.40
1:j:403:PHE:HB2	1:k:401:TRP:HE3	1.86	0.40
1:k:220:MET:HE3	1:w:515:HIS:NE2	2.35	0.40
1:l:420:TRP:CH2	1:l:445:PRO:HG2	2.57	0.40
1:n:195:ILE:HD13	1:n:200:ALA:HB2	2.04	0.40
1:n:420:TRP:CH2	1:n:445:PRO:HG2	2.57	0.40
1:p:372:ILE:HD11	1:p:525:PRO:O	2.22	0.40
1:q:515:HIS:NE2	1:y:220:MET:HE3	2.35	0.40
1:r:124:LYS:CG	1:r:482:GLU:HB2	2.48	0.40
1:r:382:ARG:NH2	1:r:411:PHE:HD1	2.19	0.40
1:t:50:SER:OG	1:t:51:ASP:N	2.54	0.40
1:t:94:TRP:NE1	1:t:225:LEU:HB2	2.36	0.40
1:t:403:PHE:HB2	1:u:401:TRP:HE3	1.86	0.40
1:u:94:TRP:NE1	1:u:225:LEU:HB2	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:414:THR:HB	1:u:531:CYS:HB3	2.04	0.40
1:v:94:TRP:NE1	1:v:225:LEU:HB2	2.36	0.40
1:w:321:VAL:HG21	1:y:298:MET:HA	2.03	0.40
1:z:227:ASN:O	1:4:45:GLY:C	2.65	0.40
1:z:420:TRP:CH2	1:z:445:PRO:HG2	2.57	0.40
1:1:348:LEU:HA	1:1:348:LEU:HD23	1.88	0.40
1:2:50:SER:OG	1:2:51:ASP:N	2.54	0.40
1:2:98:ASN:HD22	1:2:175:ASP:CG	2.28	0.40
1:2:372:ILE:HD11	1:2:525:PRO:O	2.22	0.40
1:3:195:ILE:HD13	1:3:200:ALA:HB2	2.04	0.40
1:3:306:ALA:HB3	1:3:318:PRO:HB2	2.02	0.40
1:5:101:GLN:HE21	1:5:416:GLU:HA	1.86	0.40
1:5:401:TRP:HE3	1:7:403:PHE:HB2	1.86	0.40
1:5:411:PHE:HA	1:5:412:PRO:HD3	1.96	0.40
1:6:50:SER:OG	1:6:51:ASP:N	2.54	0.40
1:6:196:GLU:CD	1:6:199:LEU:HD23	2.46	0.40
1:6:403:PHE:HB2	1:7:401:TRP:HE3	1.85	0.40
1:7:60:ARG:NH1	1:7:177:MET:HG2	2.36	0.40
1:8:195:ILE:HD13	1:8:200:ALA:HB2	2.04	0.40
1:A:45:GLY:C	1:E:227:ASN:O	2.64	0.40
1:A:101:GLN:HE21	1:A:416:GLU:HA	1.87	0.40
1:B:420:TRP:CH2	1:B:445:PRO:HG2	2.57	0.40
1:C:199:LEU:HD13	1:C:199:LEU:HA	1.94	0.40
1:C:403:PHE:HB2	1:b:401:TRP:HE3	1.85	0.40
1:D:58:ASN:ND2	1:D:105:HIS:HA	2.37	0.40
1:D:94:TRP:NE1	1:D:225:LEU:HB2	2.36	0.40
1:D:121:PHE:HA	1:D:482:GLU:O	2.21	0.40
1:D:195:ILE:HD13	1:D:200:ALA:HB2	2.04	0.40
1:E:50:SER:OG	1:E:51:ASP:N	2.54	0.40
1:E:420:TRP:CH2	1:E:445:PRO:HG2	2.57	0.40
1:F:299:THR:HG23	1:F:384:GLN:HB3	2.03	0.40
1:H:221:PRO:HG3	1:Y:256:TYR:CG	2.57	0.40
1:H:256:TYR:CG	1:W:221:PRO:HG3	2.56	0.40
1:H:334:ALA:HB1	1:Y:394:TYR:HD2	1.85	0.40
1:I:94:TRP:NE1	1:I:225:LEU:HB2	2.36	0.40
1:J:92:THR:OG1	1:J:190:TYR:O	2.32	0.40
1:J:98:ASN:HD22	1:J:175:ASP:CG	2.28	0.40
1:J:121:PHE:HB3	1:J:483:VAL:HG12	2.03	0.40
1:J:535:LYS:NZ	1:L:427:ASP:OD2	2.32	0.40
1:L:392:THR:HG23	1:L:393:THR:HG22	2.03	0.40
1:L:515:HIS:NE2	1:b:220:MET:HE3	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:50:SER:OG	1:N:51:ASP:N	2.54	0.40
1:O:220:MET:HE3	1:d:515:HIS:NE2	2.35	0.40
1:P:196:GLU:CD	1:P:199:LEU:HD23	2.46	0.40
1:S:101:GLN:HE21	1:S:416:GLU:HA	1.87	0.40
1:T:92:THR:OG1	1:T:190:TYR:O	2.32	0.40
1:U:515:HIS:NE2	1:e:220:MET:HE3	2.35	0.40
1:V:195:ILE:HD13	1:V:200:ALA:HB2	2.04	0.40
1:W:196:GLU:CD	1:W:199:LEU:HD23	2.46	0.40
1:X:124:LYS:HA	1:X:124:LYS:HD2	1.89	0.40
1:Z:195:ILE:HD13	1:Z:200:ALA:HB2	2.04	0.40
1:a:195:ILE:HD13	1:a:200:ALA:HB2	2.04	0.40
1:a:298:MET:HA	1:8:321:VAL:HG21	2.03	0.40
1:a:372:ILE:HD11	1:a:525:PRO:O	2.22	0.40
1:b:101:GLN:HE21	1:b:416:GLU:HA	1.86	0.40
1:c:196:GLU:CD	1:c:199:LEU:HD23	2.46	0.40
1:c:321:VAL:HG21	1:p:298:MET:HA	2.03	0.40
1:c:414:THR:HB	1:c:531:CYS:HB3	2.03	0.40
1:d:121:PHE:HA	1:d:482:GLU:O	2.21	0.40
1:d:420:TRP:CH2	1:d:445:PRO:HG2	2.57	0.40
1:h:94:TRP:NE1	1:h:225:LEU:HB2	2.36	0.40
1:i:321:VAL:HG21	1:k:298:MET:HA	2.03	0.40
1:k:121:PHE:HB3	1:k:483:VAL:HG12	2.03	0.40
1:k:195:ILE:HD13	1:k:200:ALA:HB2	2.04	0.40
1:k:299:THR:HG23	1:k:384:GLN:HB3	2.02	0.40
1:l:94:TRP:NE1	1:l:225:LEU:HB2	2.36	0.40
1:l:220:MET:HE3	1:n:515:HIS:NE2	2.35	0.40
1:m:45:GLY:C	1:s:227:ASN:O	2.65	0.40
1:o:60:ARG:NH1	1:o:177:MET:HG2	2.36	0.40
1:q:101:GLN:HE21	1:q:416:GLU:HA	1.87	0.40
1:q:414:THR:HB	1:q:531:CYS:HB3	2.04	0.40
1:q:511:THR:HA	1:q:512:PRO:HD3	1.96	0.40
1:r:101:GLN:HE21	1:r:416:GLU:HA	1.87	0.40
1:r:392:THR:HG23	1:r:393:THR:HG22	2.02	0.40
1:t:45:GLY:C	1:6:227:ASN:O	2.65	0.40
1:u:299:THR:HG23	1:u:384:GLN:HB3	2.03	0.40
1:u:382:ARG:NH2	1:u:411:PHE:HD1	2.19	0.40
1:v:45:GLY:C	1:w:227:ASN:O	2.64	0.40
1:v:101:GLN:HE21	1:v:416:GLU:HA	1.86	0.40
1:v:382:ARG:NH2	1:v:411:PHE:HD1	2.19	0.40
1:v:414:THR:HB	1:v:531:CYS:HB3	2.04	0.40
1:w:414:THR:HB	1:w:531:CYS:HB3	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:60:ARG:NH1	1:x:177:MET:HG2	2.36	0.40
1:y:299:THR:HG23	1:y:384:GLN:HB3	2.02	0.40
1:z:94:TRP:NE1	1:z:225:LEU:HB2	2.36	0.40
1:z:321:VAL:HG21	1:2:298:MET:HA	2.03	0.40
1:1:420:TRP:CH2	1:1:445:PRO:HG2	2.57	0.40
1:2:45:GLY:C	1:3:227:ASN:O	2.65	0.40
1:3:372:ILE:HD11	1:3:525:PRO:O	2.22	0.40
1:3:382:ARG:NH2	1:3:411:PHE:HD1	2.19	0.40
1:4:196:GLU:CD	1:4:199:LEU:HD23	2.46	0.40
1:5:403:PHE:HB2	1:6:401:TRP:HE3	1.86	0.40
1:6:121:PHE:HA	1:6:482:GLU:O	2.21	0.40
1:7:196:GLU:CD	1:7:199:LEU:HD23	2.46	0.40
1:8:392:THR:HG23	1:8:393:THR:HG22	2.03	0.40
1:A:94:TRP:NE1	1:A:225:LEU:HB2	2.36	0.40
1:B:58:ASN:ND2	1:B:105:HIS:HA	2.37	0.40
1:B:121:PHE:HA	1:B:482:GLU:O	2.21	0.40
1:C:175:ASP:HA	1:C:188:PHE:CE2	2.57	0.40
1:C:299:THR:HG23	1:C:384:GLN:HB3	2.02	0.40
1:D:298:MET:HA	1:N:321:VAL:HG21	2.03	0.40
1:E:195:ILE:HD13	1:E:200:ALA:HB2	2.04	0.40
1:E:299:THR:HG23	1:E:384:GLN:HB3	2.03	0.40
1:H:372:ILE:HD11	1:H:525:PRO:O	2.22	0.40
1:H:420:TRP:CH2	1:H:445:PRO:HG2	2.57	0.40
1:I:299:THR:HG23	1:I:384:GLN:HB3	2.03	0.40
1:I:382:ARG:NH2	1:I:411:PHE:HD1	2.19	0.40
1:J:420:TRP:CH2	1:J:445:PRO:HG2	2.57	0.40
1:K:414:THR:HB	1:K:531:CYS:HB3	2.03	0.40
1:L:515:HIS:NE2	1:b:74:THR:HG21	2.35	0.40
1:M:94:TRP:NE1	1:M:225:LEU:HB2	2.36	0.40
1:M:220:MET:HE3	1:c:515:HIS:NE2	2.36	0.40
1:O:156:HIS:O	1:O:450:ILE:HA	2.22	0.40
1:O:372:ILE:HD11	1:O:525:PRO:O	2.22	0.40
1:Q:156:HIS:O	1:Q:450:ILE:HA	2.22	0.40
1:Q:175:ASP:HA	1:Q:188:PHE:CE2	2.57	0.40
1:Q:414:THR:HB	1:Q:531:CYS:HB3	2.03	0.40
1:R:227:ASN:O	1:V:45:GLY:C	2.65	0.40
1:R:372:ILE:HD11	1:R:525:PRO:O	2.22	0.40
1:R:414:THR:HB	1:R:531:CYS:HB3	2.04	0.40
1:S:382:ARG:NH2	1:S:411:PHE:HD1	2.19	0.40
1:T:45:GLY:C	1:U:227:ASN:O	2.65	0.40
1:U:420:TRP:CH2	1:U:445:PRO:HG2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:196:GLU:CD	1:V:199:LEU:HD23	2.46	0.40
1:V:420:TRP:CH2	1:V:445:PRO:HG2	2.57	0.40
1:W:392:THR:HG23	1:W:393:THR:HG22	2.02	0.40
1:X:382:ARG:NH2	1:X:411:PHE:HD1	2.19	0.40
1:Y:372:ILE:HD11	1:Y:525:PRO:O	2.22	0.40
1:Y:392:THR:HG23	1:Y:393:THR:HG22	2.02	0.40
1:Y:420:TRP:CH2	1:Y:445:PRO:HG2	2.57	0.40
1:Z:401:TRP:HE3	1:3:403:PHE:HB2	1.85	0.40
1:a:58:ASN:ND2	1:a:105:HIS:HA	2.37	0.40
1:a:261:LEU:HD13	1:8:193:ILE:HG21	2.02	0.40
1:b:540:LYS:O	1:b:540:LYS:HG3	2.21	0.40
1:e:372:ILE:HD11	1:e:525:PRO:O	2.22	0.40
1:f:414:THR:HB	1:f:531:CYS:HB3	2.04	0.40
1:f:540:LYS:O	1:f:540:LYS:HG3	2.21	0.40
1:g:199:LEU:HD13	1:g:199:LEU:HA	1.94	0.40
1:g:299:THR:HG23	1:g:384:GLN:HB3	2.02	0.40
1:g:321:VAL:HG21	1:h:298:MET:HA	2.03	0.40
1:h:101:GLN:HE21	1:h:416:GLU:HA	1.86	0.40
1:j:45:GLY:C	1:x:227:ASN:O	2.65	0.40
1:j:121:PHE:HA	1:j:482:GLU:O	2.21	0.40
1:j:196:GLU:CD	1:j:199:LEU:HD23	2.46	0.40
1:k:58:ASN:ND2	1:k:105:HIS:HA	2.37	0.40
1:k:94:TRP:NE1	1:k:225:LEU:HB2	2.36	0.40
1:k:121:PHE:HA	1:k:482:GLU:O	2.21	0.40
1:k:227:ASN:O	1:w:45:GLY:C	2.65	0.40
1:l:121:PHE:HB3	1:l:483:VAL:HG12	2.03	0.40
1:l:372:ILE:HD11	1:l:525:PRO:O	2.22	0.40
1:m:420:TRP:CH2	1:m:445:PRO:HG2	2.57	0.40
1:m:452:MET:HE1	1:m:471:CYS:CB	2.47	0.40
1:n:121:PHE:HA	1:n:482:GLU:O	2.21	0.40
1:o:156:HIS:O	1:o:450:ILE:HA	2.22	0.40
1:o:372:ILE:HD11	1:o:525:PRO:O	2.22	0.40
1:p:45:GLY:C	1:q:227:ASN:O	2.65	0.40
1:p:196:GLU:CD	1:p:199:LEU:HD23	2.46	0.40
1:p:420:TRP:CH2	1:p:445:PRO:HG2	2.57	0.40
1:q:96:TYR:OH	1:q:175:ASP:OD2	2.33	0.40
1:q:175:ASP:HA	1:q:188:PHE:CE2	2.57	0.40
1:q:372:ILE:HD11	1:q:525:PRO:O	2.22	0.40
1:s:121:PHE:HA	1:s:482:GLU:O	2.21	0.40
1:s:420:TRP:CH2	1:s:445:PRO:HG2	2.57	0.40
1:t:121:PHE:HB3	1:t:483:VAL:HG12	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:321:VAL:HG21	1:v:298:MET:HA	2.03	0.40
1:t:540:LYS:O	1:t:540:LYS:HG3	2.21	0.40
1:v:195:ILE:HD13	1:v:200:ALA:HB2	2.04	0.40
1:v:227:ASN:O	1:1:45:GLY:C	2.64	0.40
1:w:50:SER:OG	1:w:51:ASP:N	2.54	0.40
1:w:420:TRP:CH2	1:w:445:PRO:HG2	2.57	0.40
1:x:121:PHE:HA	1:x:482:GLU:O	2.21	0.40
1:x:156:HIS:O	1:x:450:ILE:HA	2.22	0.40
1:x:175:ASP:HA	1:x:188:PHE:CE2	2.57	0.40
1:x:414:THR:HB	1:x:531:CYS:HB3	2.04	0.40
1:y:420:TRP:CH2	1:y:445:PRO:HG2	2.57	0.40
1:z:540:LYS:O	1:z:540:LYS:HG3	2.21	0.40
1:1:58:ASN:ND2	1:1:105:HIS:HA	2.37	0.40
1:1:195:ILE:HD13	1:1:200:ALA:HB2	2.04	0.40
1:2:121:PHE:HA	1:2:482:GLU:O	2.21	0.40
1:2:414:THR:HB	1:2:531:CYS:HB3	2.04	0.40
1:2:420:TRP:CH2	1:2:445:PRO:HG2	2.57	0.40
1:3:121:PHE:HA	1:3:482:GLU:O	2.21	0.40
1:4:414:THR:HB	1:4:531:CYS:HB3	2.04	0.40
1:5:372:ILE:HD11	1:5:525:PRO:O	2.22	0.40
1:5:420:TRP:CH2	1:5:445:PRO:HG2	2.57	0.40
1:7:420:TRP:CH2	1:7:445:PRO:HG2	2.57	0.40
1:8:175:ASP:HA	1:8:188:PHE:CE2	2.57	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	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	2	508/510 (100%)	486 (96%)	22 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	3	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	4	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	5	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	6	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	7	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	8	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	A	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	B	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	C	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	D	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	E	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	F	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	G	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	H	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	I	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	J	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	K	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	L	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	M	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	N	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	O	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	P	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	Q	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	R	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	S	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	T	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	U	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	V	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	W	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	X	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	Y	508/510 (100%)	486 (96%)	22 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Z	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	a	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	b	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	c	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	d	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	e	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	f	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	g	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	h	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	i	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	j	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	k	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	l	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	m	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	n	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	o	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	p	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	q	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	r	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	s	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	t	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	u	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	v	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	w	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	x	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	y	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
1	z	508/510 (100%)	486 (96%)	22 (4%)	0	100	100
All	All	30480/30600 (100%)	29160 (96%)	1320 (4%)	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	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	2	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	3	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	4	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	5	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	6	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	7	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	8	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	A	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	B	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	C	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	D	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	E	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	F	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	G	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	H	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	I	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	J	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	K	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	L	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	M	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	N	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	O	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	P	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	Q	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	R	441/441 (100%)	437 (99%)	4 (1%)	75	86

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	T	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	U	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	V	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	W	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	X	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	Y	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	Z	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	a	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	b	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	c	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	d	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	e	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	f	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	g	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	h	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	i	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	j	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	k	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	l	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	m	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	n	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	o	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	p	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	q	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	r	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	s	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	t	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	u	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	v	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	w	441/441 (100%)	437 (99%)	4 (1%)	75	86

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	x	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	y	441/441 (100%)	437 (99%)	4 (1%)	75	86
1	z	441/441 (100%)	437 (99%)	4 (1%)	75	86
All	All	26460/26460 (100%)	26220 (99%)	240 (1%)	74	86

All (240) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	90	VAL
1	A	187	LEU
1	A	202	LEU
1	A	542	LEU
1	B	90	VAL
1	B	187	LEU
1	B	202	LEU
1	B	542	LEU
1	C	90	VAL
1	C	187	LEU
1	C	202	LEU
1	C	542	LEU
1	D	90	VAL
1	D	187	LEU
1	D	202	LEU
1	D	542	LEU
1	E	90	VAL
1	E	187	LEU
1	E	202	LEU
1	E	542	LEU
1	F	90	VAL
1	F	187	LEU
1	F	202	LEU
1	F	542	LEU
1	G	90	VAL
1	G	187	LEU
1	G	202	LEU
1	G	542	LEU
1	H	90	VAL
1	H	187	LEU
1	H	202	LEU
1	H	542	LEU
1	I	90	VAL

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Mol	Chain	Res	Type
1	I	187	LEU
1	I	202	LEU
1	I	542	LEU
1	J	90	VAL
1	J	187	LEU
1	J	202	LEU
1	J	542	LEU
1	K	90	VAL
1	K	187	LEU
1	K	202	LEU
1	K	542	LEU
1	L	90	VAL
1	L	187	LEU
1	L	202	LEU
1	L	542	LEU
1	M	90	VAL
1	M	187	LEU
1	M	202	LEU
1	M	542	LEU
1	N	90	VAL
1	N	187	LEU
1	N	202	LEU
1	N	542	LEU
1	O	90	VAL
1	O	187	LEU
1	O	202	LEU
1	O	542	LEU
1	P	90	VAL
1	P	187	LEU
1	P	202	LEU
1	P	542	LEU
1	Q	90	VAL
1	Q	187	LEU
1	Q	202	LEU
1	Q	542	LEU
1	R	90	VAL
1	R	187	LEU
1	R	202	LEU
1	R	542	LEU
1	S	90	VAL
1	S	187	LEU
1	S	202	LEU

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Mol	Chain	Res	Type
1	S	542	LEU
1	T	90	VAL
1	T	187	LEU
1	T	202	LEU
1	T	542	LEU
1	U	90	VAL
1	U	187	LEU
1	U	202	LEU
1	U	542	LEU
1	V	90	VAL
1	V	187	LEU
1	V	202	LEU
1	V	542	LEU
1	W	90	VAL
1	W	187	LEU
1	W	202	LEU
1	W	542	LEU
1	X	90	VAL
1	X	187	LEU
1	X	202	LEU
1	X	542	LEU
1	Y	90	VAL
1	Y	187	LEU
1	Y	202	LEU
1	Y	542	LEU
1	Z	90	VAL
1	Z	187	LEU
1	Z	202	LEU
1	Z	542	LEU
1	a	90	VAL
1	a	187	LEU
1	a	202	LEU
1	a	542	LEU
1	b	90	VAL
1	b	187	LEU
1	b	202	LEU
1	b	542	LEU
1	c	90	VAL
1	c	187	LEU
1	c	202	LEU
1	c	542	LEU
1	d	90	VAL

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Mol	Chain	Res	Type
1	d	187	LEU
1	d	202	LEU
1	d	542	LEU
1	e	90	VAL
1	e	187	LEU
1	e	202	LEU
1	e	542	LEU
1	f	90	VAL
1	f	187	LEU
1	f	202	LEU
1	f	542	LEU
1	g	90	VAL
1	g	187	LEU
1	g	202	LEU
1	g	542	LEU
1	h	90	VAL
1	h	187	LEU
1	h	202	LEU
1	h	542	LEU
1	i	90	VAL
1	i	187	LEU
1	i	202	LEU
1	i	542	LEU
1	j	90	VAL
1	j	187	LEU
1	j	202	LEU
1	j	542	LEU
1	k	90	VAL
1	k	187	LEU
1	k	202	LEU
1	k	542	LEU
1	l	90	VAL
1	l	187	LEU
1	l	202	LEU
1	l	542	LEU
1	m	90	VAL
1	m	187	LEU
1	m	202	LEU
1	m	542	LEU
1	n	90	VAL
1	n	187	LEU
1	n	202	LEU

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Mol	Chain	Res	Type
1	n	542	LEU
1	o	90	VAL
1	o	187	LEU
1	o	202	LEU
1	o	542	LEU
1	p	90	VAL
1	p	187	LEU
1	p	202	LEU
1	p	542	LEU
1	q	90	VAL
1	q	187	LEU
1	q	202	LEU
1	q	542	LEU
1	r	90	VAL
1	r	187	LEU
1	r	202	LEU
1	r	542	LEU
1	s	90	VAL
1	s	187	LEU
1	s	202	LEU
1	s	542	LEU
1	t	90	VAL
1	t	187	LEU
1	t	202	LEU
1	t	542	LEU
1	u	90	VAL
1	u	187	LEU
1	u	202	LEU
1	u	542	LEU
1	v	90	VAL
1	v	187	LEU
1	v	202	LEU
1	v	542	LEU
1	w	90	VAL
1	w	187	LEU
1	w	202	LEU
1	w	542	LEU
1	x	90	VAL
1	x	187	LEU
1	x	202	LEU
1	x	542	LEU
1	y	90	VAL

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Mol	Chain	Res	Type
1	y	187	LEU
1	y	202	LEU
1	y	542	LEU
1	z	90	VAL
1	z	187	LEU
1	z	202	LEU
1	z	542	LEU
1	1	90	VAL
1	1	187	LEU
1	1	202	LEU
1	1	542	LEU
1	2	90	VAL
1	2	187	LEU
1	2	202	LEU
1	2	542	LEU
1	3	90	VAL
1	3	187	LEU
1	3	202	LEU
1	3	542	LEU
1	4	90	VAL
1	4	187	LEU
1	4	202	LEU
1	4	542	LEU
1	5	90	VAL
1	5	187	LEU
1	5	202	LEU
1	5	542	LEU
1	6	90	VAL
1	6	187	LEU
1	6	202	LEU
1	6	542	LEU
1	7	90	VAL
1	7	187	LEU
1	7	202	LEU
1	7	542	LEU
1	8	90	VAL
1	8	187	LEU
1	8	202	LEU
1	8	542	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (871) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	61	GLN
1	A	67	GLN
1	A	109	GLN
1	A	137	GLN
1	A	149	ASN
1	A	170	HIS
1	A	189	GLN
1	A	251	ASN
1	A	358	GLN
1	A	361	GLN
1	A	375	ASN
1	A	391	GLN
1	A	395	ASN
1	A	537	ASN
1	B	61	GLN
1	B	67	GLN
1	B	109	GLN
1	B	137	GLN
1	B	149	ASN
1	B	170	HIS
1	B	189	GLN
1	B	251	ASN
1	B	358	GLN
1	B	361	GLN
1	B	375	ASN
1	B	391	GLN
1	B	395	ASN
1	B	537	ASN
1	C	61	GLN
1	C	67	GLN
1	C	109	GLN
1	C	137	GLN
1	C	149	ASN
1	C	170	HIS
1	C	189	GLN
1	C	251	ASN
1	C	358	GLN
1	C	361	GLN
1	C	375	ASN
1	C	391	GLN
1	C	395	ASN
1	C	537	ASN
1	D	61	GLN

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Mol	Chain	Res	Type
1	D	67	GLN
1	D	109	GLN
1	D	137	GLN
1	D	149	ASN
1	D	163	HIS
1	D	170	HIS
1	D	189	GLN
1	D	251	ASN
1	D	358	GLN
1	D	361	GLN
1	D	375	ASN
1	D	391	GLN
1	D	395	ASN
1	D	443	HIS
1	D	537	ASN
1	E	61	GLN
1	E	67	GLN
1	E	109	GLN
1	E	137	GLN
1	E	149	ASN
1	E	170	HIS
1	E	189	GLN
1	E	251	ASN
1	E	358	GLN
1	E	361	GLN
1	E	375	ASN
1	E	391	GLN
1	E	395	ASN
1	E	509	ASN
1	E	537	ASN
1	F	61	GLN
1	F	67	GLN
1	F	109	GLN
1	F	137	GLN
1	F	149	ASN
1	F	170	HIS
1	F	189	GLN
1	F	251	ASN
1	F	358	GLN
1	F	361	GLN
1	F	375	ASN
1	F	391	GLN

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Mol	Chain	Res	Type
1	F	395	ASN
1	F	537	ASN
1	G	61	GLN
1	G	67	GLN
1	G	109	GLN
1	G	137	GLN
1	G	149	ASN
1	G	170	HIS
1	G	189	GLN
1	G	251	ASN
1	G	358	GLN
1	G	361	GLN
1	G	375	ASN
1	G	391	GLN
1	G	395	ASN
1	G	509	ASN
1	G	537	ASN
1	H	61	GLN
1	H	67	GLN
1	H	109	GLN
1	H	137	GLN
1	H	149	ASN
1	H	170	HIS
1	H	189	GLN
1	H	251	ASN
1	H	358	GLN
1	H	361	GLN
1	H	375	ASN
1	H	391	GLN
1	H	395	ASN
1	H	537	ASN
1	I	61	GLN
1	I	67	GLN
1	I	109	GLN
1	I	137	GLN
1	I	149	ASN
1	I	170	HIS
1	I	189	GLN
1	I	251	ASN
1	I	358	GLN
1	I	361	GLN
1	I	375	ASN

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Mol	Chain	Res	Type
1	I	391	GLN
1	I	395	ASN
1	I	537	ASN
1	J	61	GLN
1	J	67	GLN
1	J	109	GLN
1	J	137	GLN
1	J	149	ASN
1	J	170	HIS
1	J	189	GLN
1	J	251	ASN
1	J	358	GLN
1	J	361	GLN
1	J	375	ASN
1	J	391	GLN
1	J	395	ASN
1	J	537	ASN
1	K	61	GLN
1	K	67	GLN
1	K	109	GLN
1	K	137	GLN
1	K	149	ASN
1	K	170	HIS
1	K	189	GLN
1	K	251	ASN
1	K	358	GLN
1	K	361	GLN
1	K	375	ASN
1	K	391	GLN
1	K	395	ASN
1	K	537	ASN
1	L	61	GLN
1	L	67	GLN
1	L	109	GLN
1	L	137	GLN
1	L	149	ASN
1	L	170	HIS
1	L	189	GLN
1	L	251	ASN
1	L	358	GLN
1	L	361	GLN
1	L	375	ASN

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Mol	Chain	Res	Type
1	L	391	GLN
1	L	395	ASN
1	L	537	ASN
1	M	61	GLN
1	M	67	GLN
1	M	109	GLN
1	M	137	GLN
1	M	149	ASN
1	M	170	HIS
1	M	189	GLN
1	M	251	ASN
1	M	358	GLN
1	M	361	GLN
1	M	375	ASN
1	M	391	GLN
1	M	395	ASN
1	M	537	ASN
1	N	61	GLN
1	N	67	GLN
1	N	109	GLN
1	N	137	GLN
1	N	149	ASN
1	N	170	HIS
1	N	189	GLN
1	N	251	ASN
1	N	358	GLN
1	N	361	GLN
1	N	375	ASN
1	N	391	GLN
1	N	395	ASN
1	N	537	ASN
1	O	61	GLN
1	O	67	GLN
1	O	109	GLN
1	O	137	GLN
1	O	149	ASN
1	O	170	HIS
1	O	189	GLN
1	O	251	ASN
1	O	358	GLN
1	O	361	GLN
1	O	375	ASN

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Mol	Chain	Res	Type
1	O	391	GLN
1	O	395	ASN
1	O	462	ASN
1	O	537	ASN
1	P	61	GLN
1	P	67	GLN
1	P	109	GLN
1	P	137	GLN
1	P	149	ASN
1	P	170	HIS
1	P	189	GLN
1	P	251	ASN
1	P	358	GLN
1	P	361	GLN
1	P	375	ASN
1	P	391	GLN
1	P	395	ASN
1	P	462	ASN
1	P	537	ASN
1	Q	61	GLN
1	Q	67	GLN
1	Q	109	GLN
1	Q	137	GLN
1	Q	149	ASN
1	Q	170	HIS
1	Q	189	GLN
1	Q	251	ASN
1	Q	289	GLN
1	Q	358	GLN
1	Q	361	GLN
1	Q	375	ASN
1	Q	391	GLN
1	Q	395	ASN
1	Q	537	ASN
1	R	61	GLN
1	R	67	GLN
1	R	109	GLN
1	R	137	GLN
1	R	149	ASN
1	R	170	HIS
1	R	189	GLN
1	R	251	ASN

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Mol	Chain	Res	Type
1	R	358	GLN
1	R	361	GLN
1	R	375	ASN
1	R	391	GLN
1	R	395	ASN
1	R	509	ASN
1	R	537	ASN
1	S	61	GLN
1	S	67	GLN
1	S	109	GLN
1	S	137	GLN
1	S	149	ASN
1	S	170	HIS
1	S	189	GLN
1	S	251	ASN
1	S	358	GLN
1	S	361	GLN
1	S	375	ASN
1	S	391	GLN
1	S	395	ASN
1	S	462	ASN
1	S	537	ASN
1	T	61	GLN
1	T	67	GLN
1	T	109	GLN
1	T	137	GLN
1	T	149	ASN
1	T	170	HIS
1	T	189	GLN
1	T	251	ASN
1	T	358	GLN
1	T	361	GLN
1	T	375	ASN
1	T	391	GLN
1	T	395	ASN
1	T	537	ASN
1	U	61	GLN
1	U	67	GLN
1	U	109	GLN
1	U	137	GLN
1	U	149	ASN
1	U	170	HIS

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Mol	Chain	Res	Type
1	U	189	GLN
1	U	251	ASN
1	U	358	GLN
1	U	361	GLN
1	U	375	ASN
1	U	391	GLN
1	U	395	ASN
1	U	462	ASN
1	U	537	ASN
1	V	61	GLN
1	V	67	GLN
1	V	109	GLN
1	V	137	GLN
1	V	149	ASN
1	V	170	HIS
1	V	189	GLN
1	V	251	ASN
1	V	358	GLN
1	V	361	GLN
1	V	375	ASN
1	V	391	GLN
1	V	395	ASN
1	V	462	ASN
1	V	537	ASN
1	W	61	GLN
1	W	67	GLN
1	W	109	GLN
1	W	137	GLN
1	W	149	ASN
1	W	170	HIS
1	W	189	GLN
1	W	251	ASN
1	W	358	GLN
1	W	361	GLN
1	W	375	ASN
1	W	391	GLN
1	W	395	ASN
1	W	537	ASN
1	X	61	GLN
1	X	67	GLN
1	X	109	GLN
1	X	137	GLN

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Mol	Chain	Res	Type
1	X	149	ASN
1	X	163	HIS
1	X	170	HIS
1	X	189	GLN
1	X	251	ASN
1	X	358	GLN
1	X	361	GLN
1	X	375	ASN
1	X	391	GLN
1	X	395	ASN
1	X	443	HIS
1	X	537	ASN
1	Y	61	GLN
1	Y	67	GLN
1	Y	109	GLN
1	Y	137	GLN
1	Y	149	ASN
1	Y	170	HIS
1	Y	189	GLN
1	Y	251	ASN
1	Y	358	GLN
1	Y	361	GLN
1	Y	375	ASN
1	Y	391	GLN
1	Y	395	ASN
1	Y	537	ASN
1	Z	61	GLN
1	Z	67	GLN
1	Z	109	GLN
1	Z	137	GLN
1	Z	149	ASN
1	Z	170	HIS
1	Z	189	GLN
1	Z	251	ASN
1	Z	358	GLN
1	Z	361	GLN
1	Z	375	ASN
1	Z	391	GLN
1	Z	395	ASN
1	Z	462	ASN
1	Z	537	ASN
1	a	61	GLN

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Mol	Chain	Res	Type
1	a	67	GLN
1	a	101	GLN
1	a	109	GLN
1	a	137	GLN
1	a	149	ASN
1	a	170	HIS
1	a	189	GLN
1	a	251	ASN
1	a	358	GLN
1	a	361	GLN
1	a	375	ASN
1	a	391	GLN
1	a	395	ASN
1	a	462	ASN
1	a	537	ASN
1	b	61	GLN
1	b	67	GLN
1	b	109	GLN
1	b	137	GLN
1	b	149	ASN
1	b	170	HIS
1	b	189	GLN
1	b	251	ASN
1	b	358	GLN
1	b	361	GLN
1	b	375	ASN
1	b	391	GLN
1	b	395	ASN
1	b	537	ASN
1	c	61	GLN
1	c	67	GLN
1	c	109	GLN
1	c	137	GLN
1	c	149	ASN
1	c	170	HIS
1	c	189	GLN
1	c	251	ASN
1	c	358	GLN
1	c	361	GLN
1	c	375	ASN
1	c	391	GLN
1	c	395	ASN

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Mol	Chain	Res	Type
1	c	537	ASN
1	d	61	GLN
1	d	67	GLN
1	d	109	GLN
1	d	137	GLN
1	d	149	ASN
1	d	170	HIS
1	d	189	GLN
1	d	251	ASN
1	d	358	GLN
1	d	361	GLN
1	d	375	ASN
1	d	391	GLN
1	d	395	ASN
1	d	537	ASN
1	e	61	GLN
1	e	67	GLN
1	e	109	GLN
1	e	137	GLN
1	e	149	ASN
1	e	170	HIS
1	e	189	GLN
1	e	251	ASN
1	e	358	GLN
1	e	361	GLN
1	e	375	ASN
1	e	391	GLN
1	e	395	ASN
1	e	537	ASN
1	f	61	GLN
1	f	67	GLN
1	f	109	GLN
1	f	137	GLN
1	f	149	ASN
1	f	170	HIS
1	f	189	GLN
1	f	251	ASN
1	f	358	GLN
1	f	361	GLN
1	f	375	ASN
1	f	391	GLN
1	f	395	ASN

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Mol	Chain	Res	Type
1	f	537	ASN
1	g	61	GLN
1	g	67	GLN
1	g	109	GLN
1	g	137	GLN
1	g	149	ASN
1	g	170	HIS
1	g	189	GLN
1	g	251	ASN
1	g	358	GLN
1	g	361	GLN
1	g	375	ASN
1	g	391	GLN
1	g	395	ASN
1	g	462	ASN
1	g	537	ASN
1	h	61	GLN
1	h	67	GLN
1	h	109	GLN
1	h	137	GLN
1	h	149	ASN
1	h	170	HIS
1	h	189	GLN
1	h	251	ASN
1	h	358	GLN
1	h	361	GLN
1	h	375	ASN
1	h	391	GLN
1	h	395	ASN
1	h	537	ASN
1	i	61	GLN
1	i	67	GLN
1	i	109	GLN
1	i	137	GLN
1	i	149	ASN
1	i	170	HIS
1	i	189	GLN
1	i	251	ASN
1	i	358	GLN
1	i	361	GLN
1	i	375	ASN
1	i	391	GLN

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Mol	Chain	Res	Type
1	i	395	ASN
1	i	537	ASN
1	j	61	GLN
1	j	67	GLN
1	j	109	GLN
1	j	137	GLN
1	j	149	ASN
1	j	170	HIS
1	j	189	GLN
1	j	251	ASN
1	j	358	GLN
1	j	361	GLN
1	j	375	ASN
1	j	391	GLN
1	j	395	ASN
1	j	462	ASN
1	j	537	ASN
1	k	61	GLN
1	k	67	GLN
1	k	109	GLN
1	k	137	GLN
1	k	149	ASN
1	k	163	HIS
1	k	170	HIS
1	k	189	GLN
1	k	251	ASN
1	k	358	GLN
1	k	361	GLN
1	k	375	ASN
1	k	391	GLN
1	k	395	ASN
1	k	443	HIS
1	k	537	ASN
1	l	61	GLN
1	l	67	GLN
1	l	109	GLN
1	l	137	GLN
1	l	149	ASN
1	l	170	HIS
1	l	189	GLN
1	l	251	ASN
1	l	358	GLN

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Mol	Chain	Res	Type
1	l	361	GLN
1	l	375	ASN
1	l	391	GLN
1	l	395	ASN
1	l	462	ASN
1	l	537	ASN
1	m	61	GLN
1	m	67	GLN
1	m	109	GLN
1	m	137	GLN
1	m	149	ASN
1	m	170	HIS
1	m	189	GLN
1	m	251	ASN
1	m	358	GLN
1	m	361	GLN
1	m	375	ASN
1	m	391	GLN
1	m	395	ASN
1	m	537	ASN
1	n	61	GLN
1	n	67	GLN
1	n	109	GLN
1	n	137	GLN
1	n	149	ASN
1	n	170	HIS
1	n	189	GLN
1	n	251	ASN
1	n	358	GLN
1	n	361	GLN
1	n	375	ASN
1	n	391	GLN
1	n	395	ASN
1	n	537	ASN
1	o	61	GLN
1	o	67	GLN
1	o	109	GLN
1	o	137	GLN
1	o	149	ASN
1	o	163	HIS
1	o	170	HIS
1	o	189	GLN

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Mol	Chain	Res	Type
1	o	251	ASN
1	o	358	GLN
1	o	361	GLN
1	o	375	ASN
1	o	391	GLN
1	o	395	ASN
1	o	443	HIS
1	o	537	ASN
1	p	61	GLN
1	p	67	GLN
1	p	109	GLN
1	p	137	GLN
1	p	149	ASN
1	p	170	HIS
1	p	189	GLN
1	p	251	ASN
1	p	358	GLN
1	p	361	GLN
1	p	375	ASN
1	p	391	GLN
1	p	395	ASN
1	p	462	ASN
1	p	537	ASN
1	q	61	GLN
1	q	67	GLN
1	q	109	GLN
1	q	137	GLN
1	q	149	ASN
1	q	170	HIS
1	q	189	GLN
1	q	251	ASN
1	q	358	GLN
1	q	361	GLN
1	q	375	ASN
1	q	391	GLN
1	q	395	ASN
1	q	509	ASN
1	q	537	ASN
1	r	61	GLN
1	r	67	GLN
1	r	109	GLN
1	r	137	GLN

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Mol	Chain	Res	Type
1	r	149	ASN
1	r	170	HIS
1	r	189	GLN
1	r	251	ASN
1	r	358	GLN
1	r	361	GLN
1	r	375	ASN
1	r	391	GLN
1	r	395	ASN
1	r	537	ASN
1	s	61	GLN
1	s	67	GLN
1	s	109	GLN
1	s	137	GLN
1	s	149	ASN
1	s	170	HIS
1	s	189	GLN
1	s	251	ASN
1	s	358	GLN
1	s	361	GLN
1	s	375	ASN
1	s	391	GLN
1	s	395	ASN
1	s	462	ASN
1	s	537	ASN
1	t	61	GLN
1	t	67	GLN
1	t	109	GLN
1	t	137	GLN
1	t	149	ASN
1	t	170	HIS
1	t	189	GLN
1	t	251	ASN
1	t	358	GLN
1	t	361	GLN
1	t	375	ASN
1	t	391	GLN
1	t	395	ASN
1	t	509	ASN
1	t	537	ASN
1	u	61	GLN
1	u	67	GLN

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Mol	Chain	Res	Type
1	u	109	GLN
1	u	137	GLN
1	u	149	ASN
1	u	170	HIS
1	u	189	GLN
1	u	251	ASN
1	u	358	GLN
1	u	361	GLN
1	u	375	ASN
1	u	391	GLN
1	u	395	ASN
1	u	537	ASN
1	v	61	GLN
1	v	67	GLN
1	v	109	GLN
1	v	137	GLN
1	v	149	ASN
1	v	170	HIS
1	v	189	GLN
1	v	251	ASN
1	v	358	GLN
1	v	361	GLN
1	v	375	ASN
1	v	391	GLN
1	v	395	ASN
1	v	537	ASN
1	w	61	GLN
1	w	67	GLN
1	w	109	GLN
1	w	137	GLN
1	w	149	ASN
1	w	170	HIS
1	w	189	GLN
1	w	251	ASN
1	w	358	GLN
1	w	361	GLN
1	w	375	ASN
1	w	391	GLN
1	w	395	ASN
1	w	509	ASN
1	w	537	ASN
1	x	61	GLN

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Mol	Chain	Res	Type
1	x	67	GLN
1	x	109	GLN
1	x	137	GLN
1	x	149	ASN
1	x	170	HIS
1	x	189	GLN
1	x	251	ASN
1	x	289	GLN
1	x	358	GLN
1	x	361	GLN
1	x	375	ASN
1	x	391	GLN
1	x	395	ASN
1	x	537	ASN
1	y	61	GLN
1	y	67	GLN
1	y	109	GLN
1	y	137	GLN
1	y	149	ASN
1	y	170	HIS
1	y	189	GLN
1	y	251	ASN
1	y	358	GLN
1	y	361	GLN
1	y	375	ASN
1	y	391	GLN
1	y	395	ASN
1	y	537	ASN
1	z	61	GLN
1	z	67	GLN
1	z	109	GLN
1	z	137	GLN
1	z	149	ASN
1	z	170	HIS
1	z	189	GLN
1	z	251	ASN
1	z	358	GLN
1	z	361	GLN
1	z	375	ASN
1	z	391	GLN
1	z	395	ASN
1	z	537	ASN

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Mol	Chain	Res	Type
1	1	61	GLN
1	1	67	GLN
1	1	109	GLN
1	1	137	GLN
1	1	149	ASN
1	1	170	HIS
1	1	189	GLN
1	1	251	ASN
1	1	358	GLN
1	1	361	GLN
1	1	375	ASN
1	1	391	GLN
1	1	395	ASN
1	1	537	ASN
1	2	61	GLN
1	2	67	GLN
1	2	109	GLN
1	2	137	GLN
1	2	149	ASN
1	2	189	GLN
1	2	251	ASN
1	2	358	GLN
1	2	361	GLN
1	2	375	ASN
1	2	391	GLN
1	2	395	ASN
1	2	443	HIS
1	2	537	ASN
1	3	61	GLN
1	3	67	GLN
1	3	109	GLN
1	3	137	GLN
1	3	149	ASN
1	3	170	HIS
1	3	189	GLN
1	3	251	ASN
1	3	358	GLN
1	3	361	GLN
1	3	375	ASN
1	3	391	GLN
1	3	395	ASN
1	3	462	ASN

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Mol	Chain	Res	Type
1	3	537	ASN
1	4	61	GLN
1	4	67	GLN
1	4	109	GLN
1	4	137	GLN
1	4	149	ASN
1	4	170	HIS
1	4	189	GLN
1	4	251	ASN
1	4	358	GLN
1	4	361	GLN
1	4	375	ASN
1	4	391	GLN
1	4	395	ASN
1	4	537	ASN
1	5	61	GLN
1	5	67	GLN
1	5	109	GLN
1	5	137	GLN
1	5	149	ASN
1	5	170	HIS
1	5	189	GLN
1	5	251	ASN
1	5	358	GLN
1	5	361	GLN
1	5	375	ASN
1	5	391	GLN
1	5	395	ASN
1	5	537	ASN
1	6	61	GLN
1	6	67	GLN
1	6	109	GLN
1	6	137	GLN
1	6	149	ASN
1	6	170	HIS
1	6	189	GLN
1	6	251	ASN
1	6	358	GLN
1	6	361	GLN
1	6	375	ASN
1	6	391	GLN
1	6	395	ASN

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Mol	Chain	Res	Type
1	6	537	ASN
1	7	61	GLN
1	7	67	GLN
1	7	109	GLN
1	7	137	GLN
1	7	149	ASN
1	7	170	HIS
1	7	189	GLN
1	7	251	ASN
1	7	358	GLN
1	7	361	GLN
1	7	375	ASN
1	7	391	GLN
1	7	395	ASN
1	7	537	ASN
1	8	61	GLN
1	8	67	GLN
1	8	109	GLN
1	8	137	GLN
1	8	149	ASN
1	8	170	HIS
1	8	189	GLN
1	8	251	ASN
1	8	358	GLN
1	8	361	GLN
1	8	375	ASN
1	8	391	GLN
1	8	395	ASN
1	8	462	ASN
1	8	537	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 [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

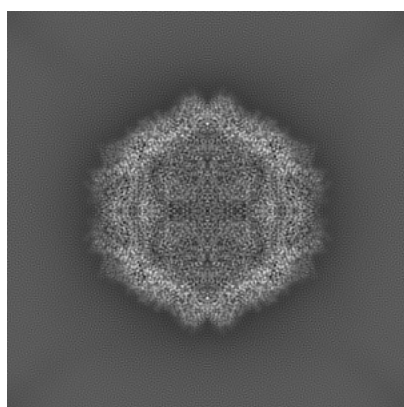
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23106. These allow visual inspection of the internal detail of the map and identification of artifacts.

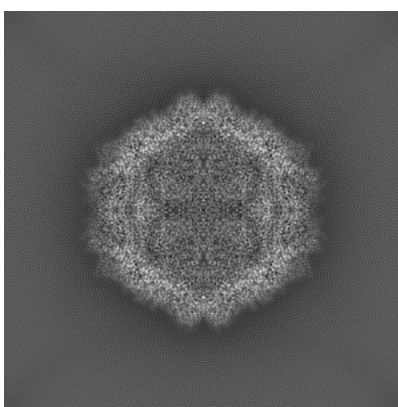
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

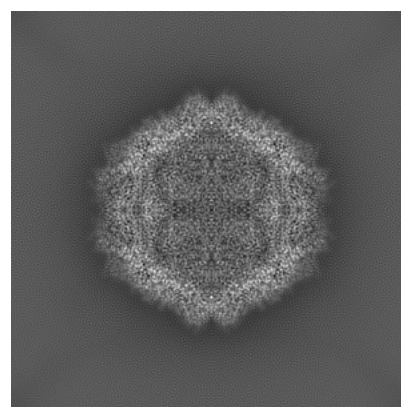
6.1.1 Primary map



X



Y

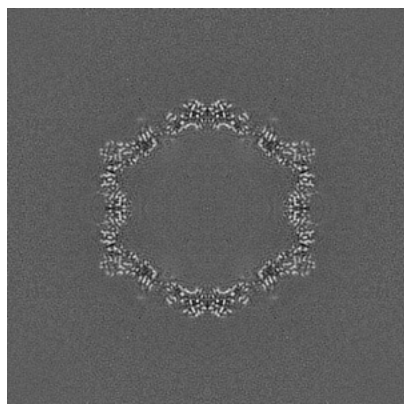


Z

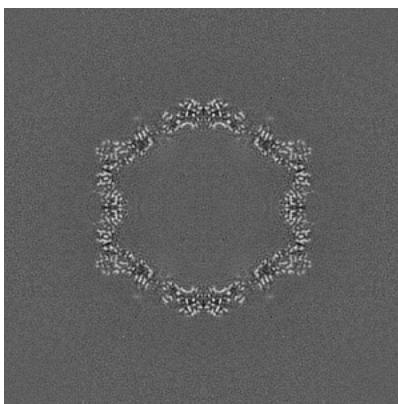
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

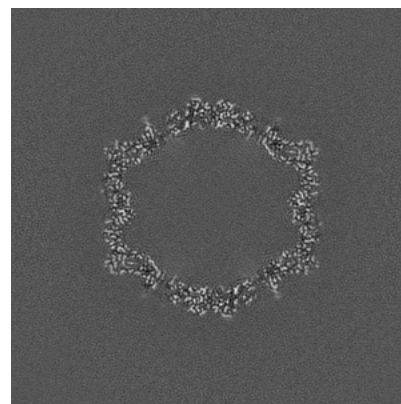
6.2.1 Primary map



X Index: 210



Y Index: 210

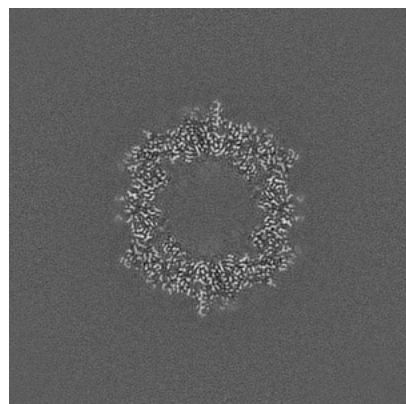


Z Index: 210

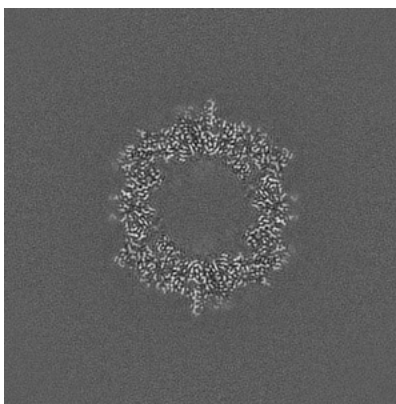
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

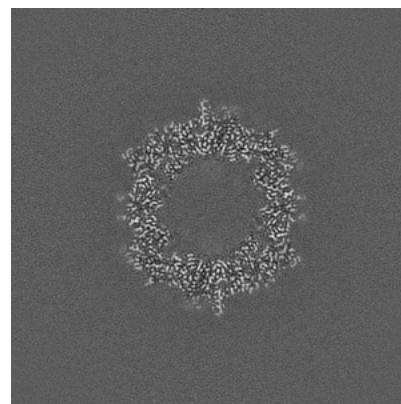
6.3.1 Primary map



X Index: 274



Y Index: 274

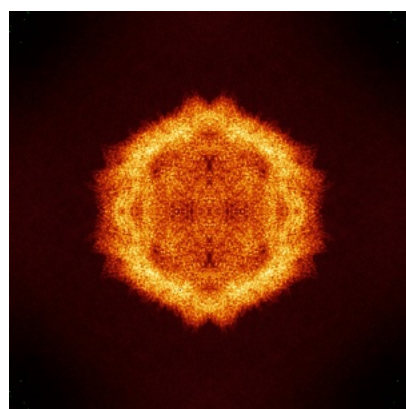


Z Index: 145

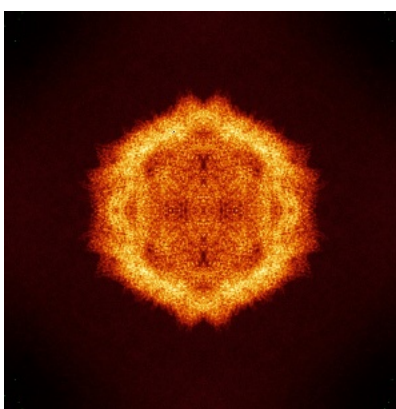
The images above show the largest variance slices of the map in three orthogonal directions.

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

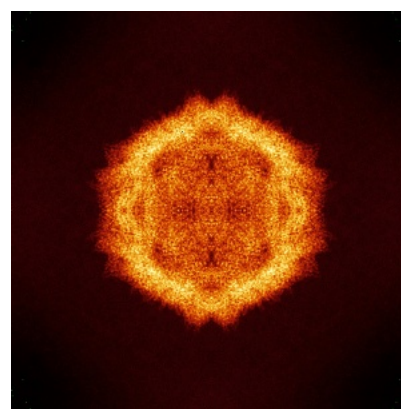
6.4.1 Primary map



X



Y

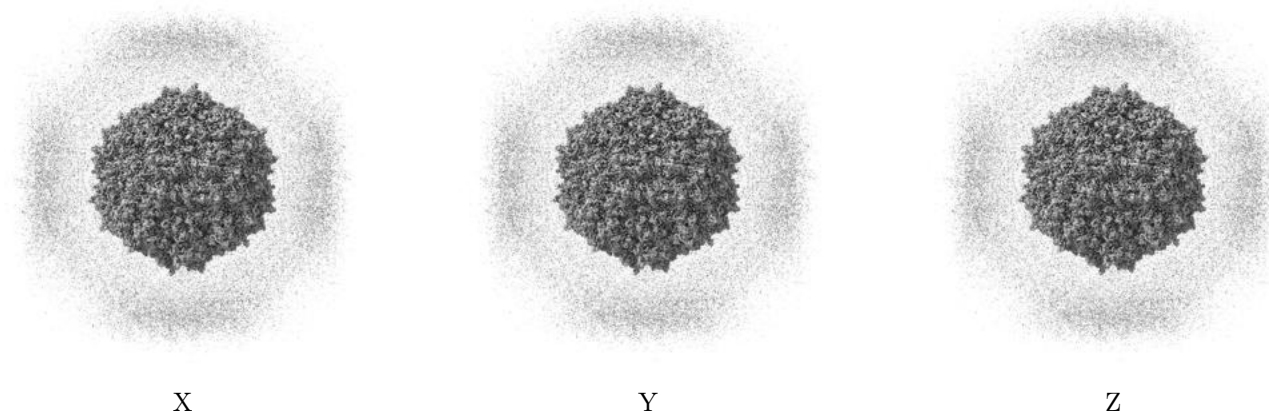


Z

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

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



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

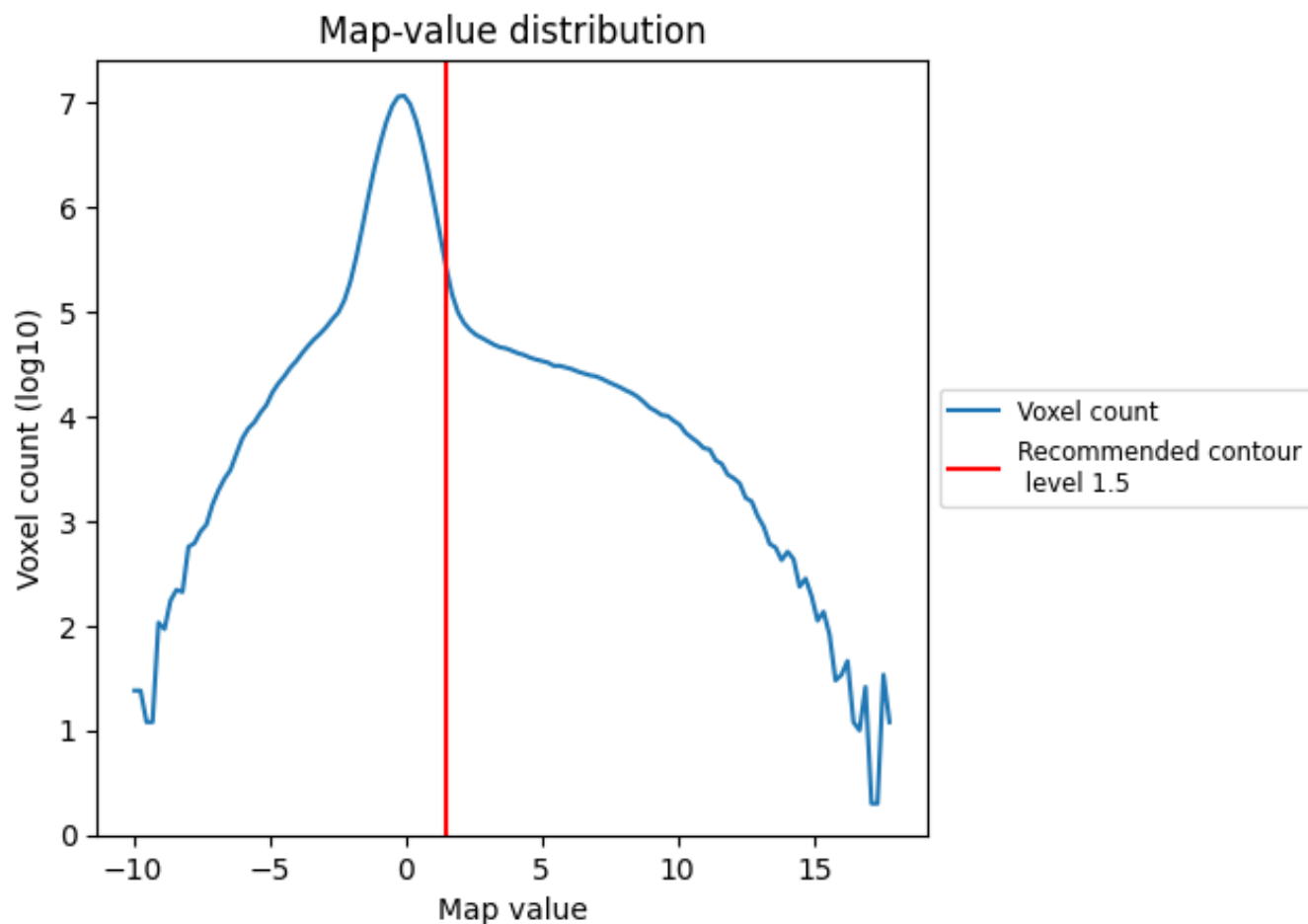
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

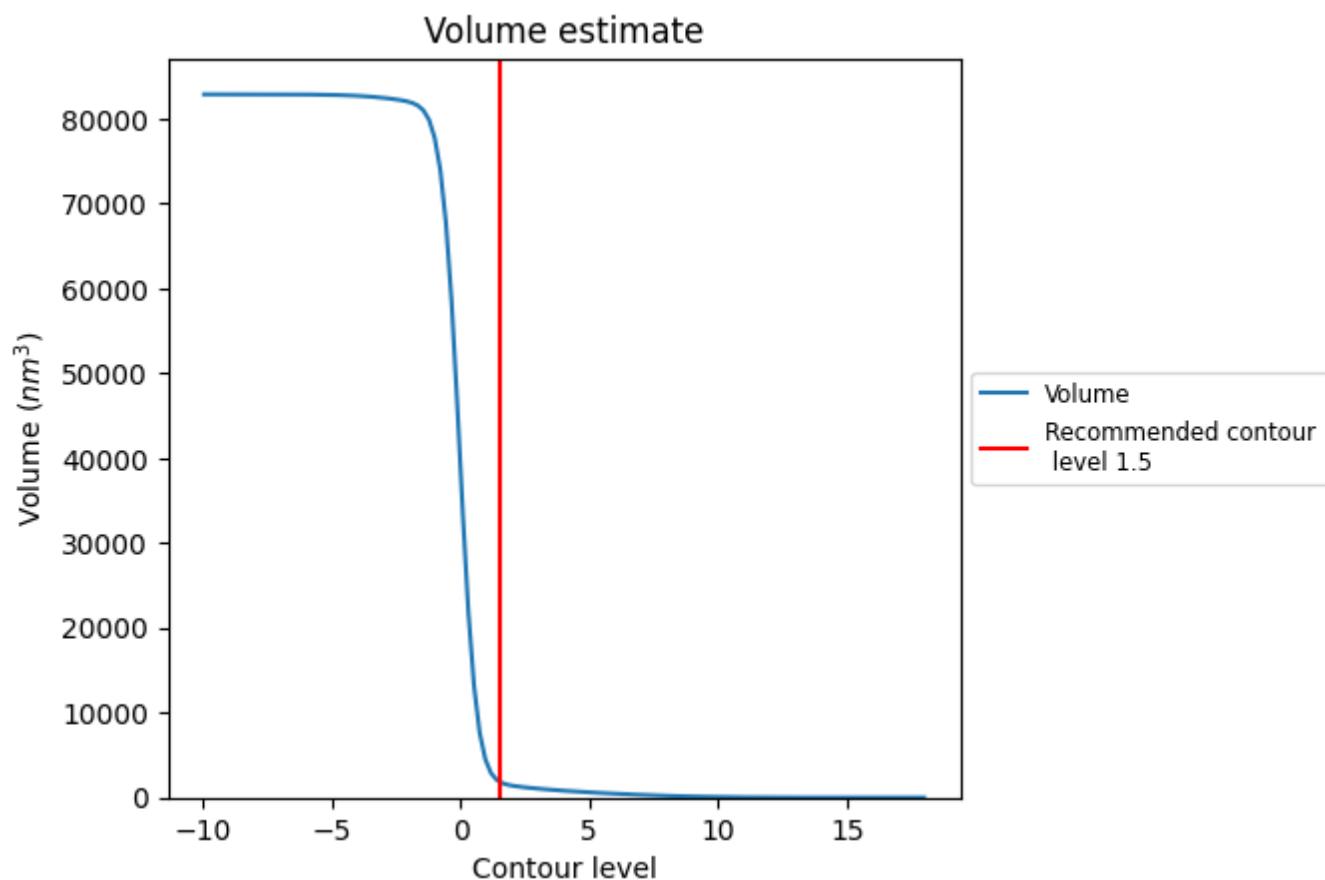
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

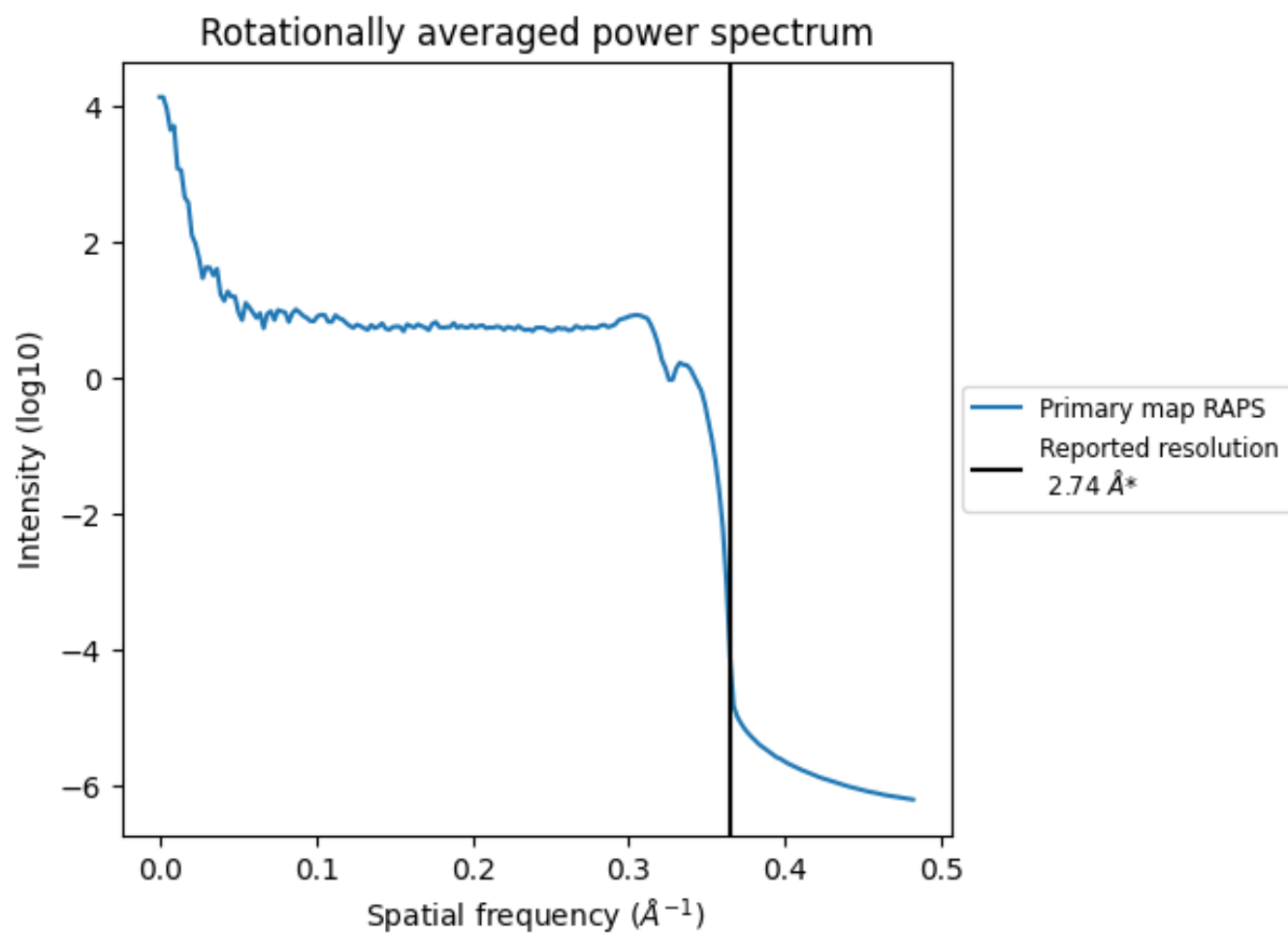
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1921 nm³; this corresponds to an approximate mass of 1735 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 0.365 Å⁻¹

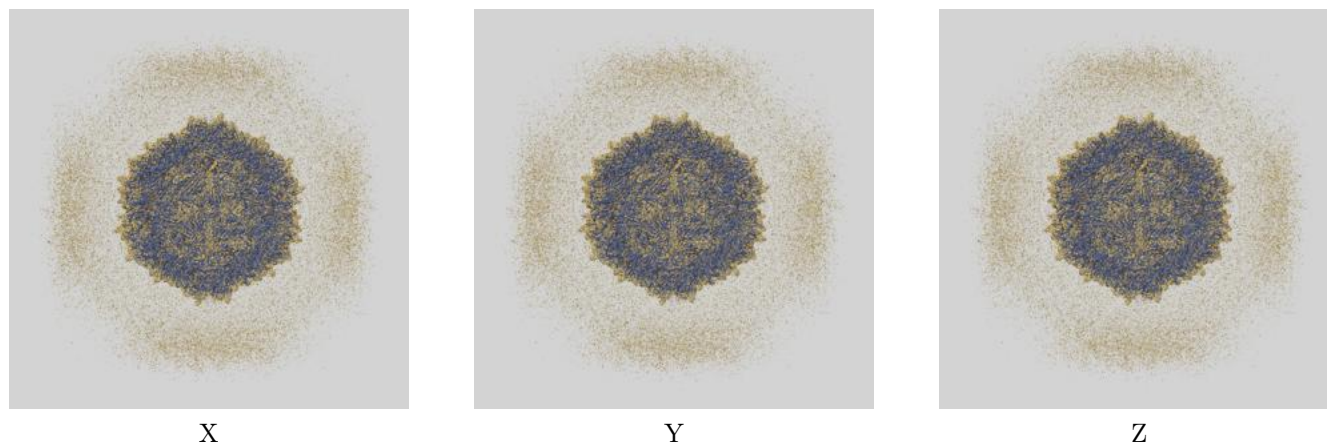
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

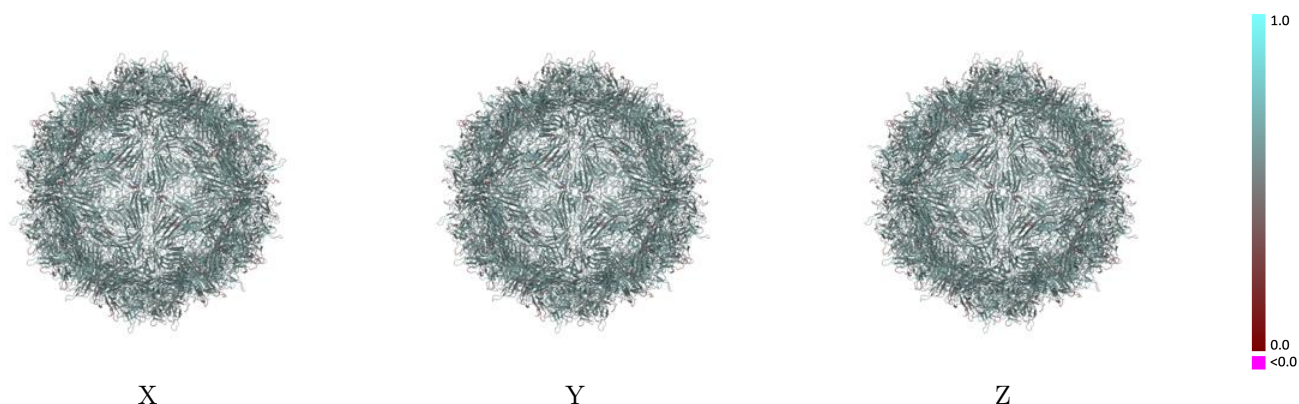
This section contains information regarding the fit between EMDB map EMD-23106 and PDB model 7L0W. Per-residue inclusion information can be found in section [3](#) on page [10](#).

9.1 Map-model overlay [i](#)



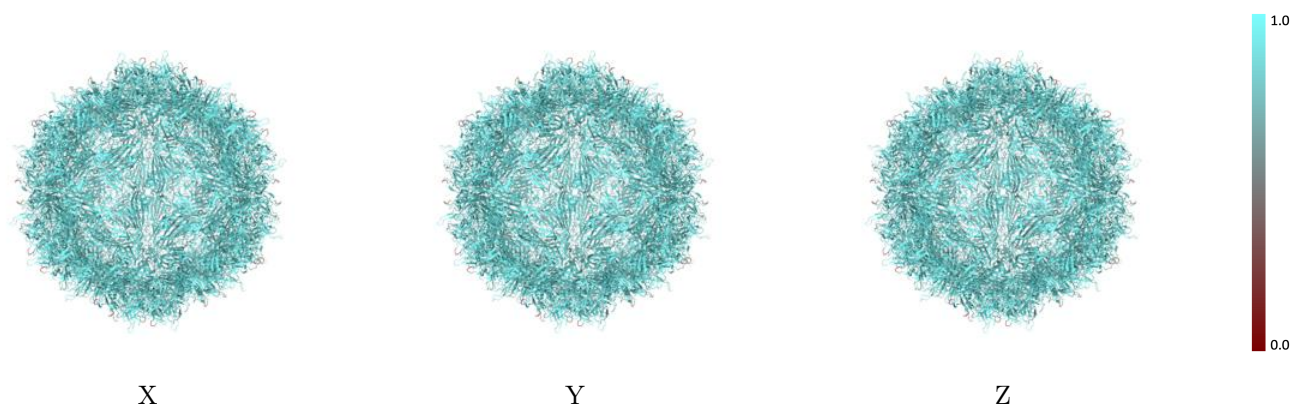
The images above show the 3D surface view of the map at the recommended contour level 1.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



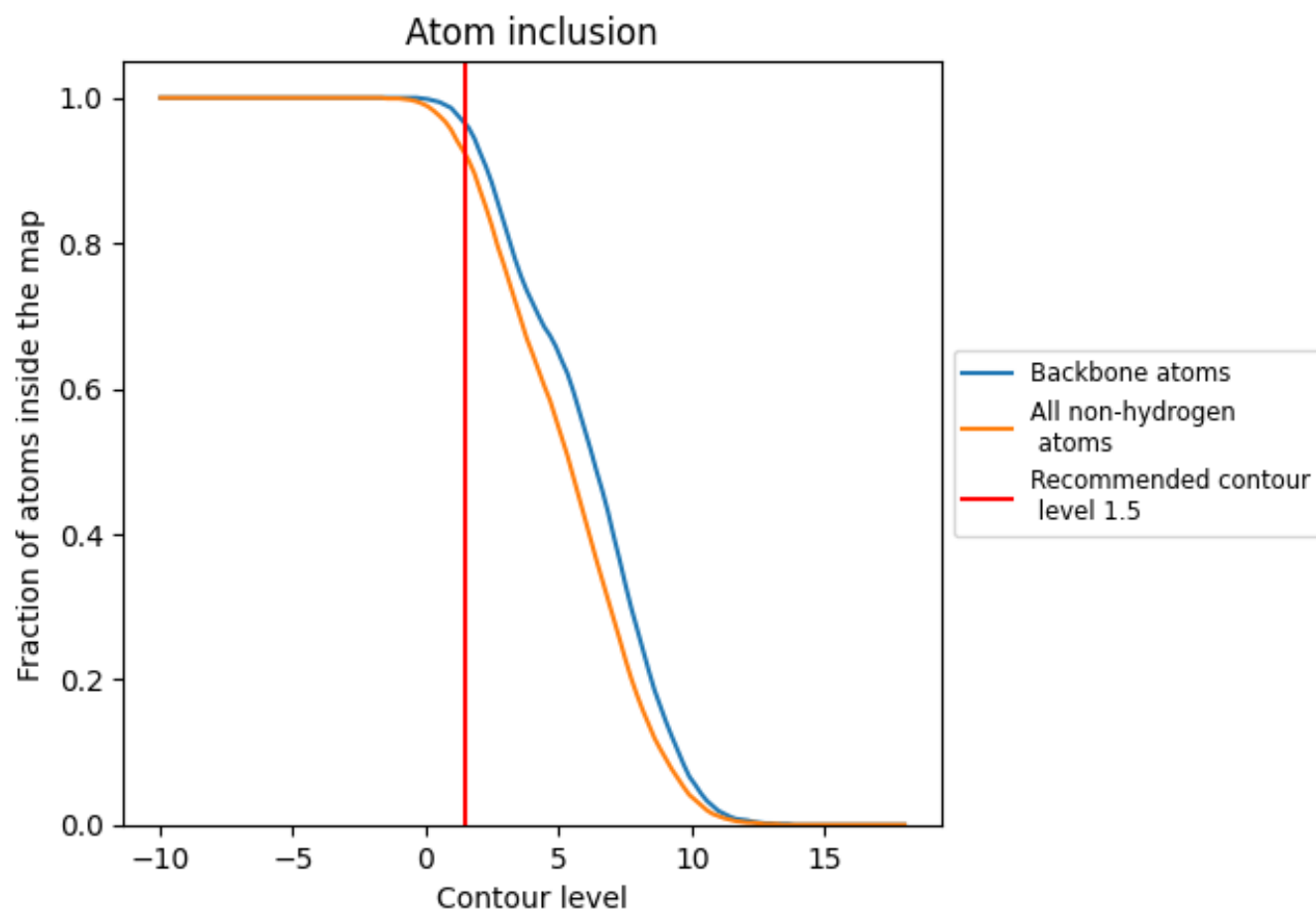
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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, 96% of all backbone atoms, 92% 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	 0.9220	 0.5700
1	 0.9230	 0.5710
2	 0.9230	 0.5700
3	 0.9230	 0.5700
4	 0.9230	 0.5710
5	 0.9220	 0.5700
6	 0.9220	 0.5700
7	 0.9220	 0.5700
8	 0.9190	 0.5710
A	 0.9230	 0.5700
B	 0.9230	 0.5700
C	 0.9230	 0.5700
D	 0.9220	 0.5700
E	 0.9190	 0.5700
F	 0.9230	 0.5690
G	 0.9190	 0.5700
H	 0.9210	 0.5700
I	 0.9230	 0.5710
J	 0.9230	 0.5700
K	 0.9230	 0.5710
L	 0.9230	 0.5690
M	 0.9200	 0.5710
N	 0.9210	 0.5690
O	 0.9190	 0.5700
P	 0.9210	 0.5700
Q	 0.9230	 0.5720
R	 0.9230	 0.5700
S	 0.9230	 0.5700
T	 0.9230	 0.5710
U	 0.9230	 0.5710
V	 0.9230	 0.5710
W	 0.9210	 0.5710
X	 0.9200	 0.5710
Y	 0.9210	 0.5710
Z	 0.9190	 0.5700



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Chain	Atom inclusion	Q-score
a	 0.9230	 0.5700
b	 0.9230	 0.5700
c	 0.9230	 0.5700
d	 0.9230	 0.5710
e	 0.9230	 0.5700
f	 0.9230	 0.5700
g	 0.9230	 0.5700
h	 0.9200	 0.5700
i	 0.9220	 0.5690
j	 0.9220	 0.5700
k	 0.9220	 0.5690
l	 0.9190	 0.5710
m	 0.9230	 0.5710
n	 0.9230	 0.5710
o	 0.9200	 0.5700
p	 0.9230	 0.5700
q	 0.9230	 0.5690
r	 0.9230	 0.5700
s	 0.9230	 0.5700
t	 0.9190	 0.5700
u	 0.9230	 0.5710
v	 0.9240	 0.5700
w	 0.9190	 0.5700
x	 0.9230	 0.5700
y	 0.9240	 0.5690
z	 0.9230	 0.5690