



Full wwPDB EM Validation Report ⓘ

May 5, 2025 – 05:26 AM EDT

PDB ID : 7L0U / pdb_00007l0u
EMDB ID : EMD-23104
Title : Human Bocavirus 2 (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

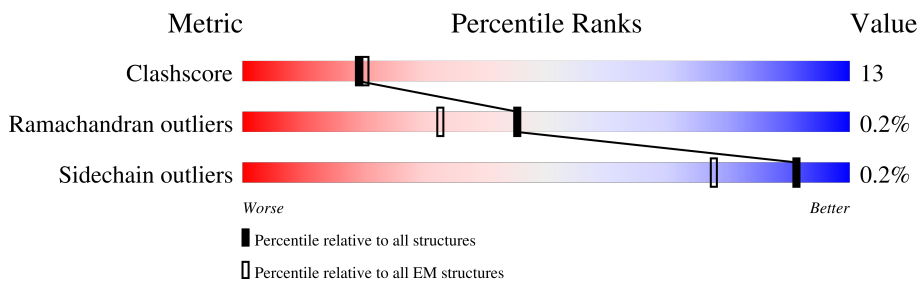
1 Overall quality at a glance

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.



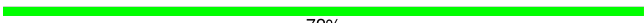
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	506	
1	2	506	
1	3	506	
1	4	506	
1	5	506	
1	6	506	
1	7	506	
1	8	506	

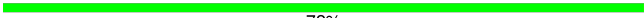
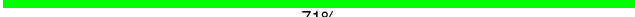
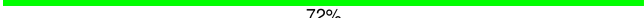
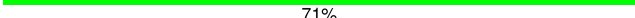
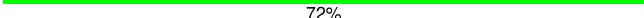
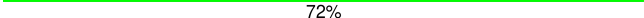
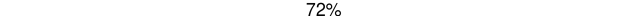
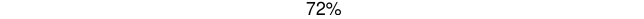
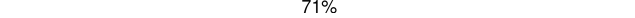
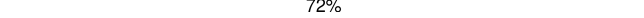
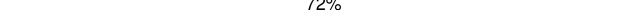
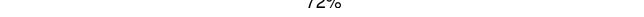
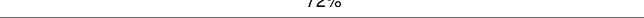
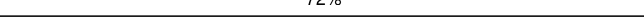
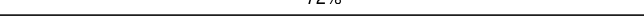
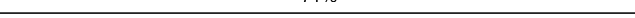
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Mol	Chain	Length	Quality of chain	
1	A	506		28%
1	B	506		28%
1	C	506		28%
1	D	506		28%
1	E	506		27%
1	F	506		28%
1	G	506		28%
1	H	506		28%
1	I	506		28%
1	J	506		28%
1	K	506		28%
1	L	506		27%
1	M	506		28%
1	N	506		28%
1	O	506		28%
1	P	506		29%
1	Q	506		28%
1	R	506		28%
1	S	506		28%
1	T	506		28%
1	U	506		28%
1	V	506		28%
1	W	506		28%
1	X	506		28%
1	Y	506		28%

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Mol	Chain	Length	Quality of chain	
1	Z	506		28%
1	a	506		28%
1	b	506		28%
1	c	506		28%
1	d	506		28%
1	e	506		28%
1	f	506		28%
1	g	506		28%
1	h	506		28%
1	i	506		27%
1	j	506		29%
1	k	506		28%
1	l	506		28%
1	m	506		28%
1	n	506		28%
1	o	506		28%
1	p	506		28%
1	q	506		29%
1	r	506		28%
1	s	506		28%
1	t	506		28%
1	u	506		28%
1	v	506		28%
1	w	506		28%
1	x	506		28%

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Mol	Chain	Length	Quality of chain	
1	y	506		
1	z	506		

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 243240 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called VP2.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	B	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	C	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	D	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	E	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	F	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	G	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	H	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	I	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	J	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	K	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	L	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	M	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	N	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	O	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	P	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	Q	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	S	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	T	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	U	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	V	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	W	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	X	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	Y	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	Z	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	a	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	b	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	c	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	d	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	e	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	f	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	g	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	h	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	i	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	j	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	k	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	l	506	Total 4054	C 2571	N 697	O 765	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	n	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	o	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	p	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	q	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	r	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	s	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	t	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	u	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	v	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	w	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	x	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	y	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	z	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	1	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	2	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	3	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	4	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	5	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	6	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		
1	7	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		

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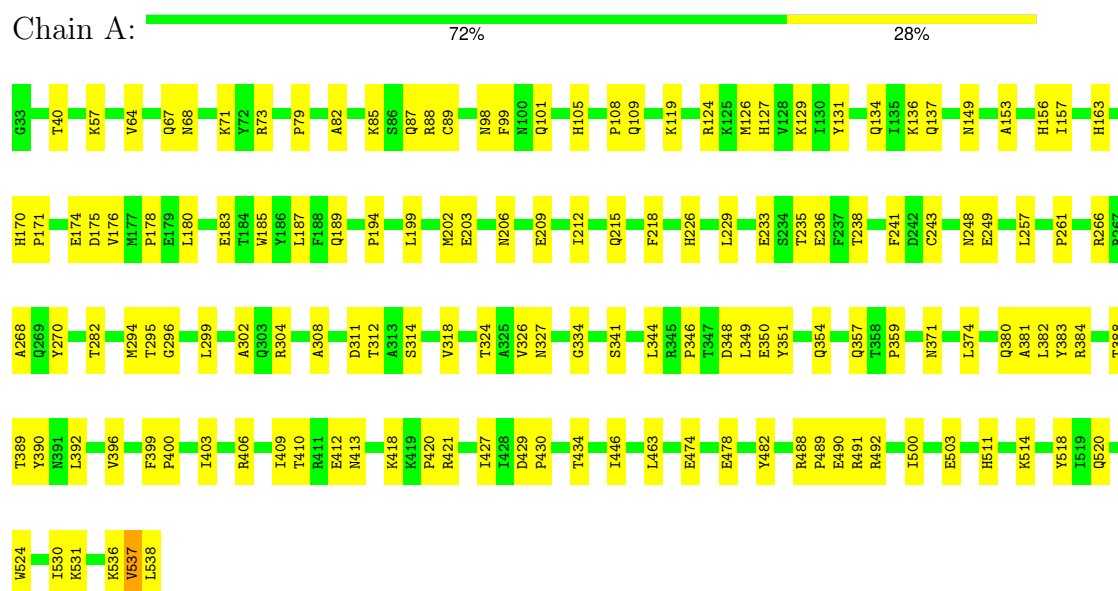
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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		

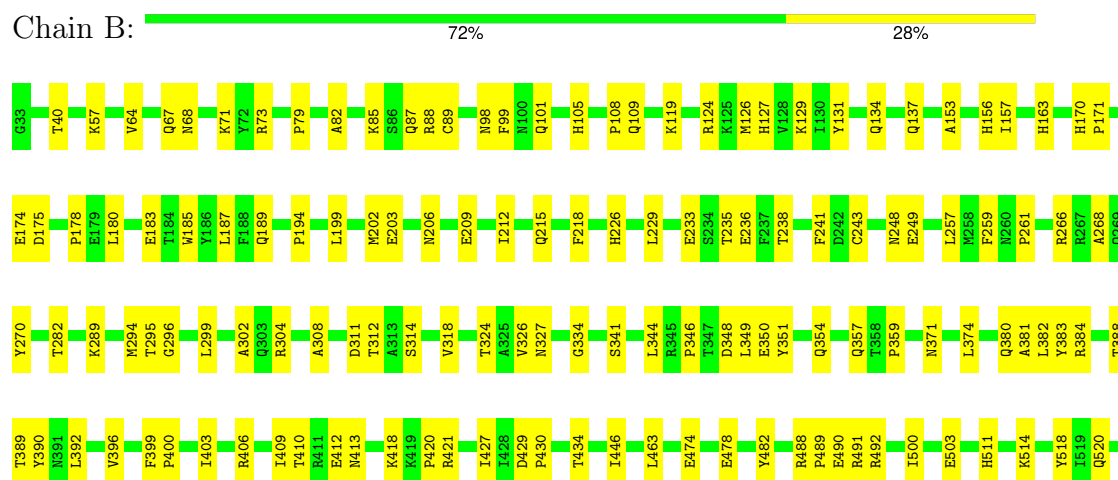
3 Residue-property plots

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

• Molecule 1: VP2



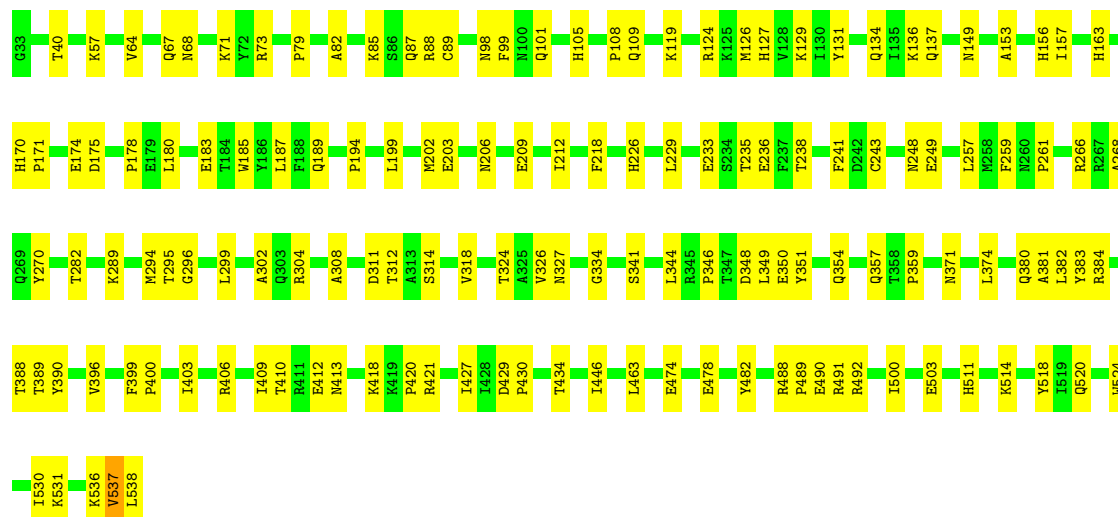
• Molecule 1: VP2





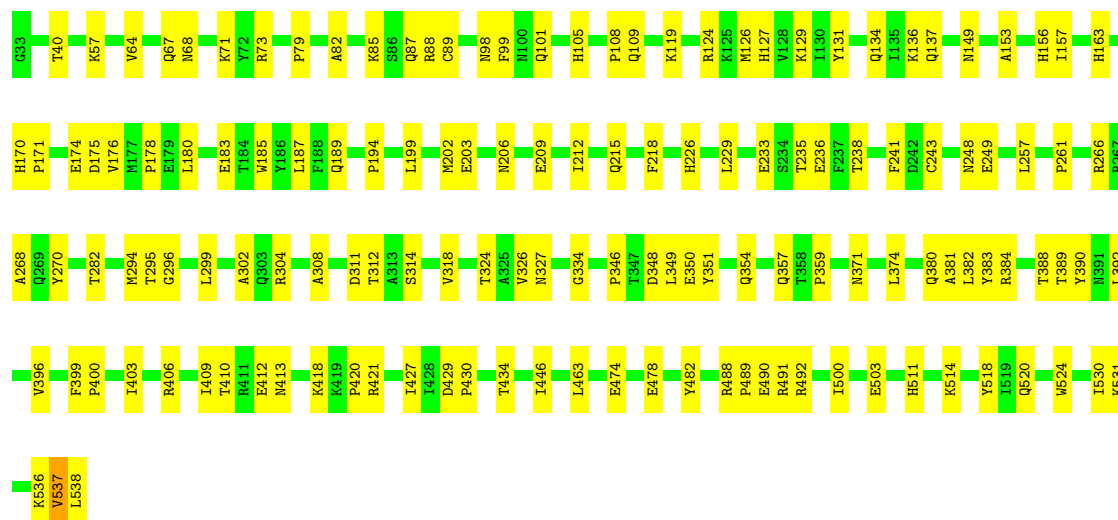
• Molecule 1: VP2

Chain C: 72% 28%



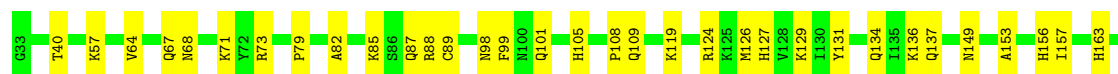
• Molecule 1: VP2

Chain D: 72% 28%



• Molecule 1: VP2

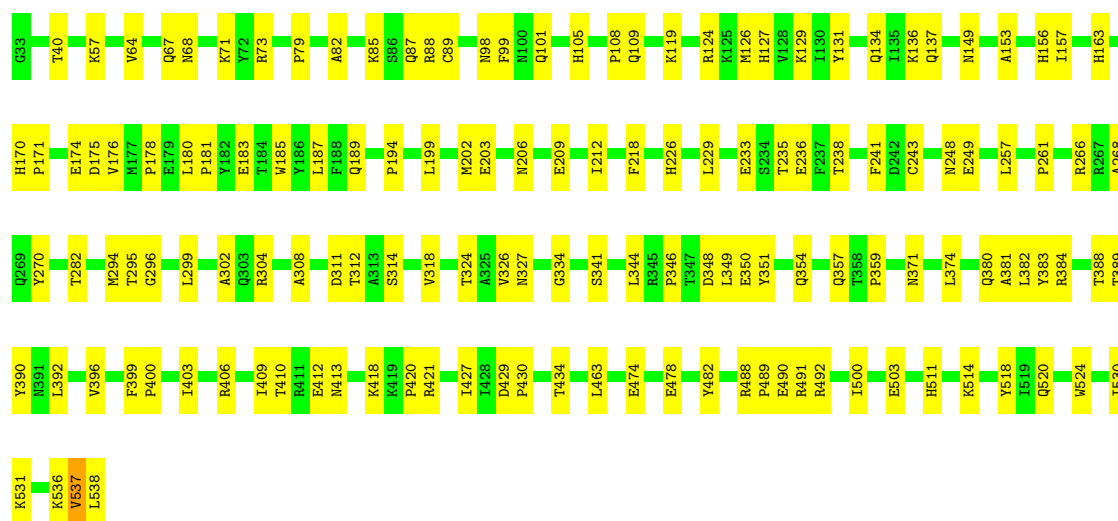
Chain E: 72% 27%





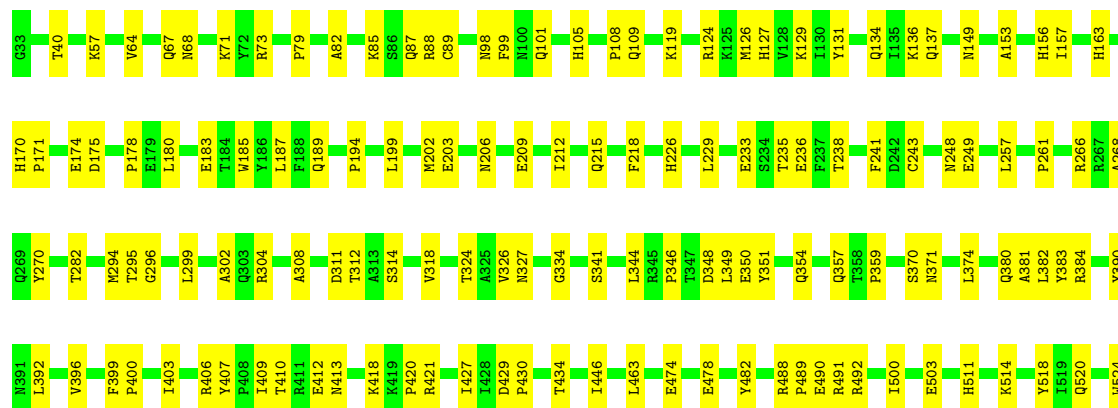
• Molecule 1: VP2

Chain F: 72% 28%



• Molecule 1: VP2

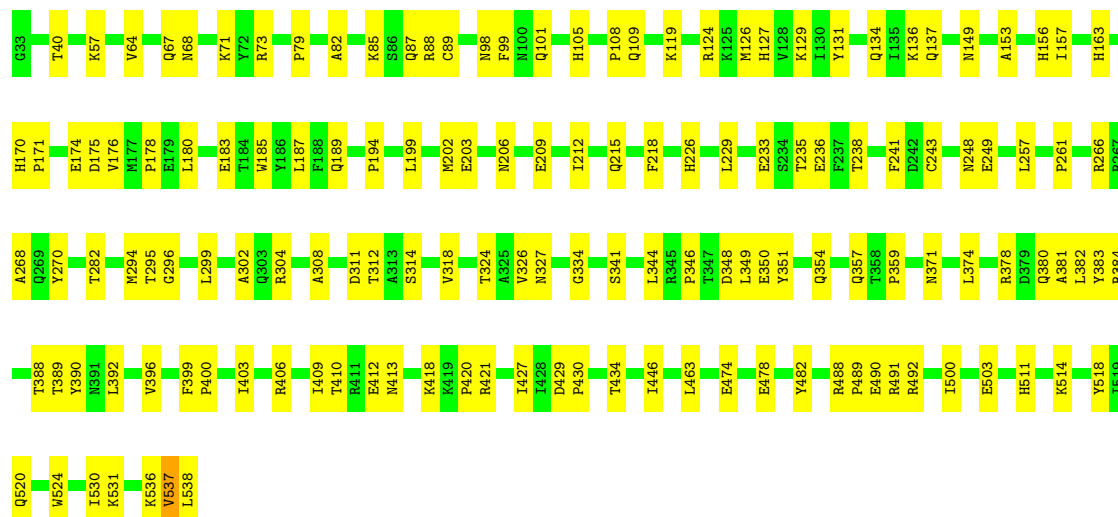
Chain G: 72% 28%





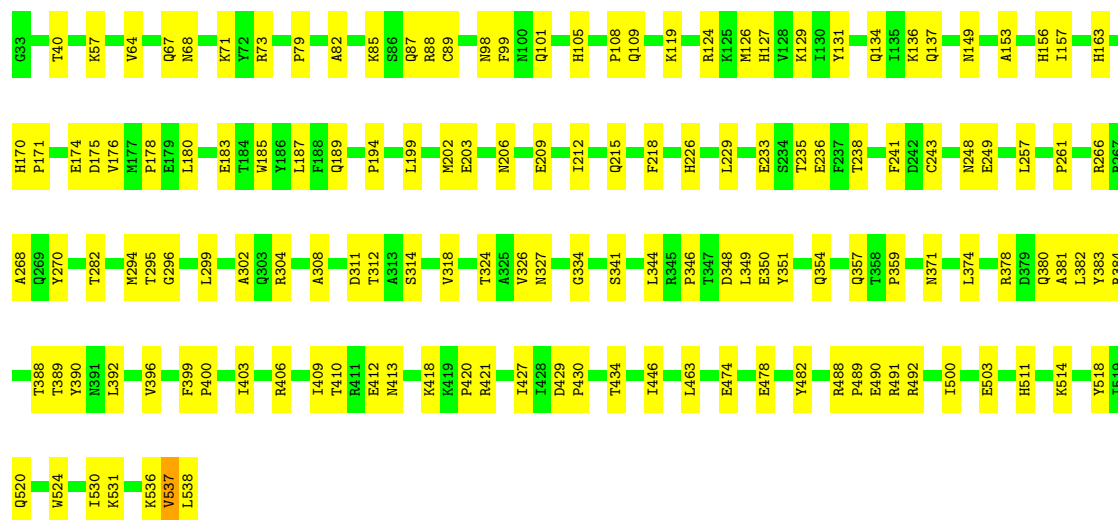
• Molecule 1: VP2

Chain H: 72% 28%



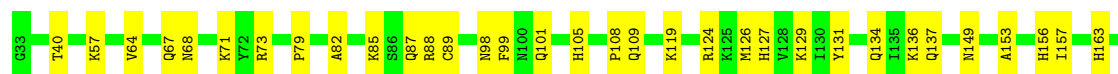
• Molecule 1: VP2

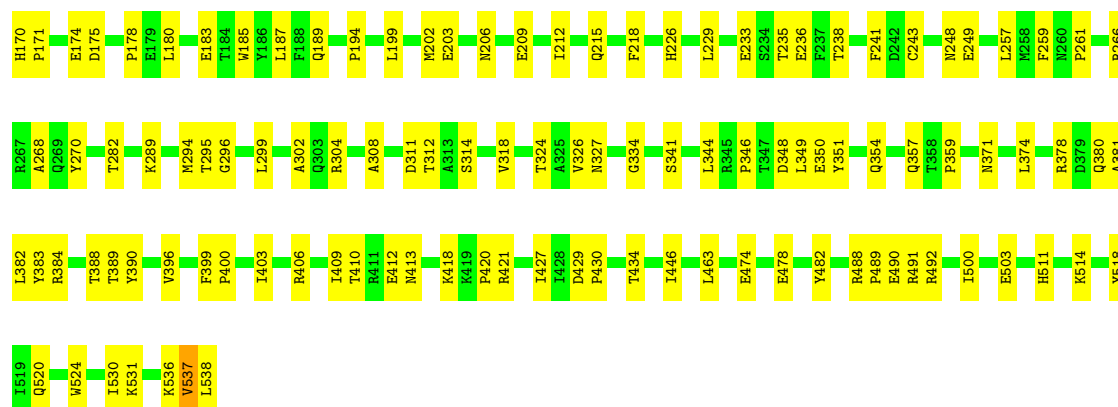
Chain I: 72% 28%



• Molecule 1: VP2

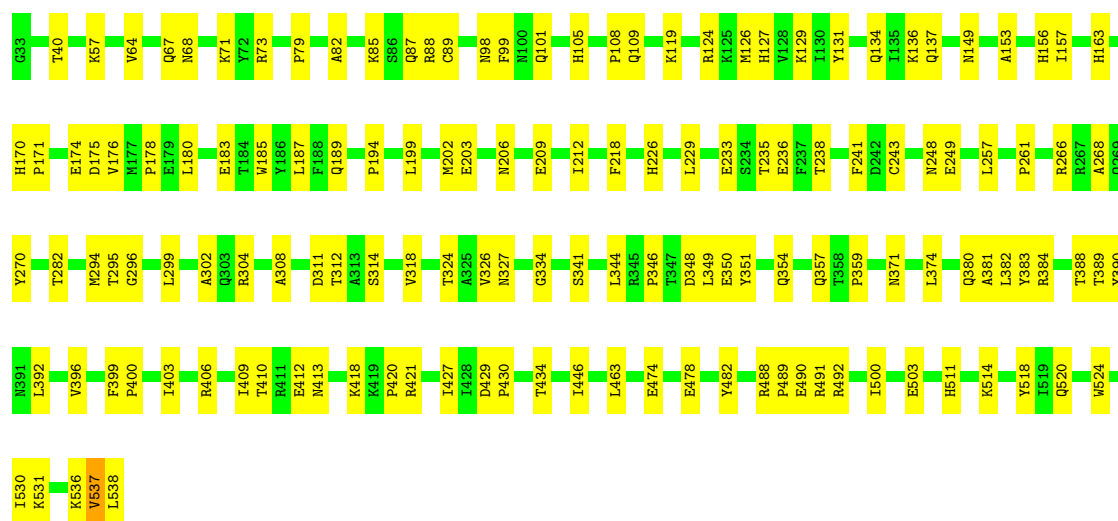
Chain J: 72% 28%





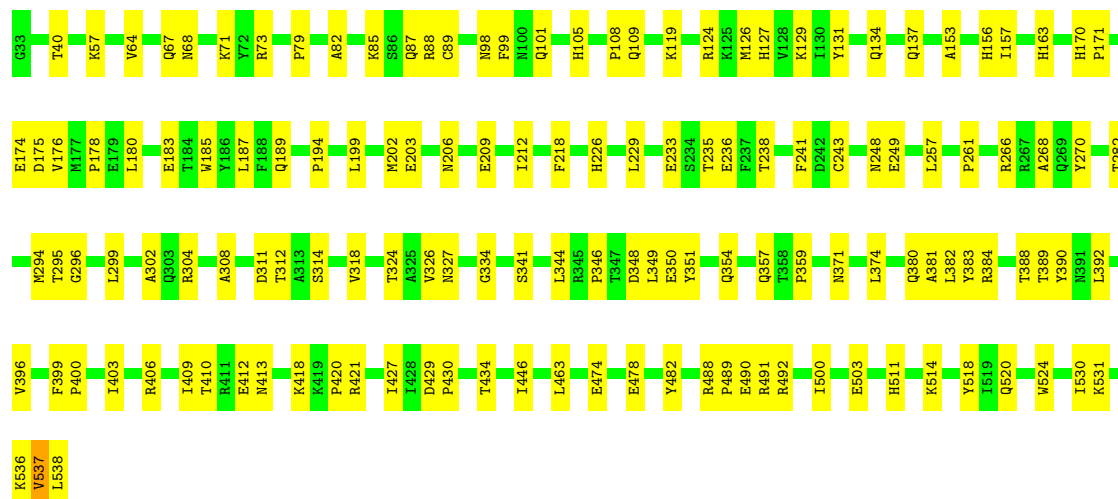
• Molecule 1: VP2

Chain K: 72% 28%

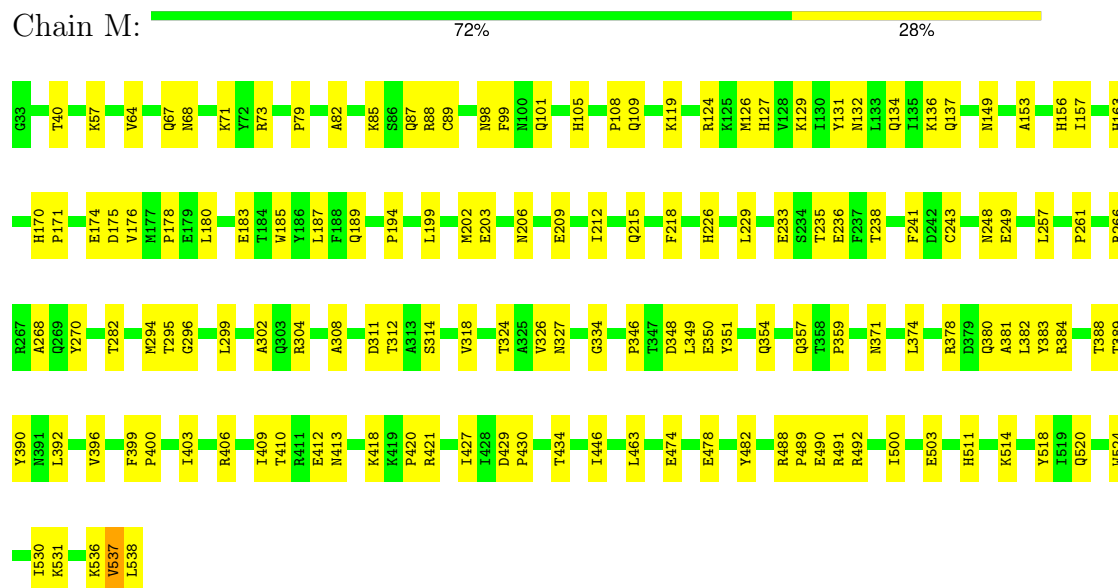


• Molecule 1: VP2

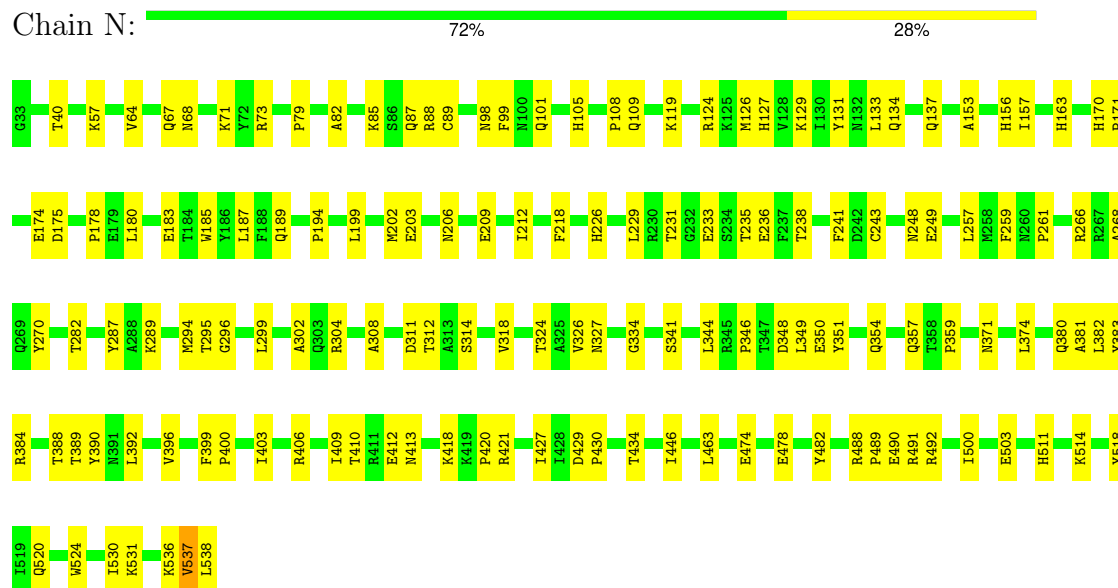
Chain L: 72% 27%



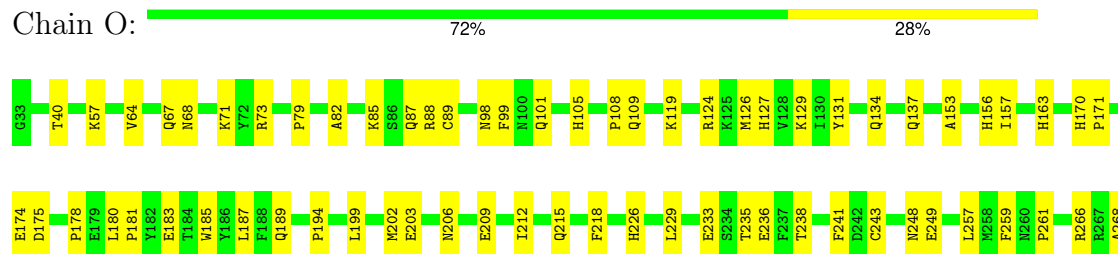
- Molecule 1: VP2

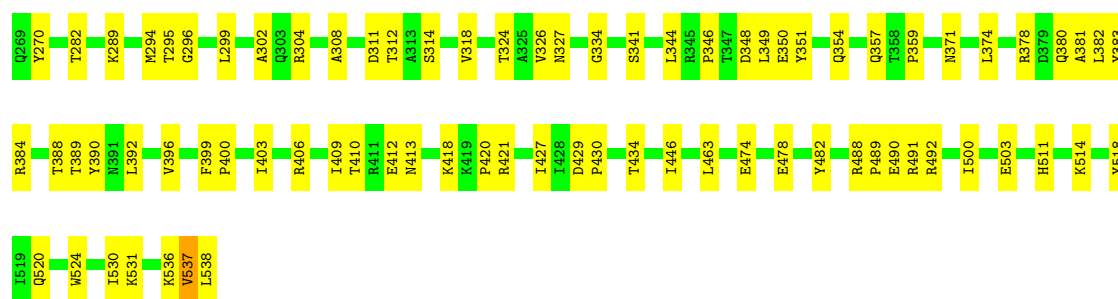


- Molecule 1: VP2



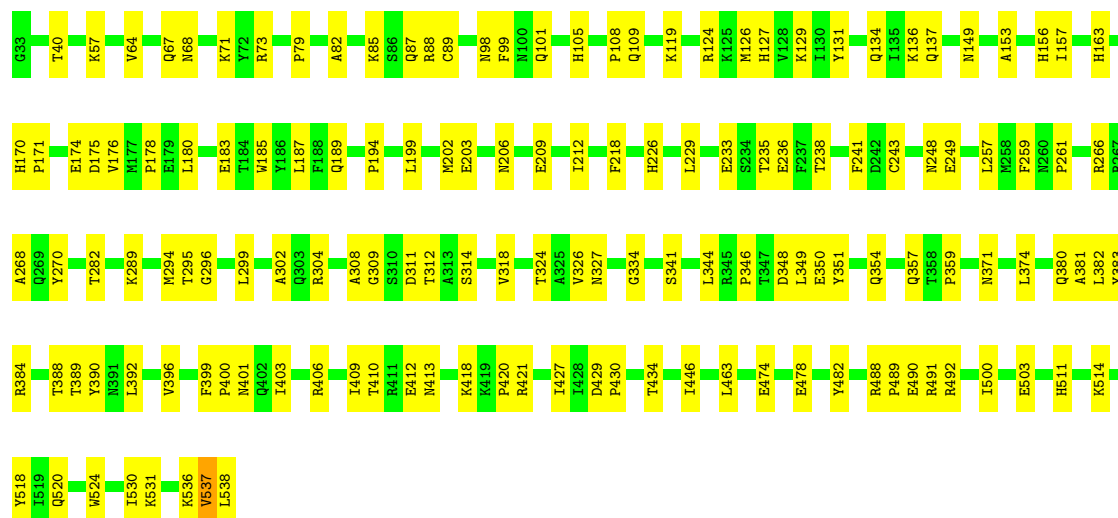
- Molecule 1: VP2





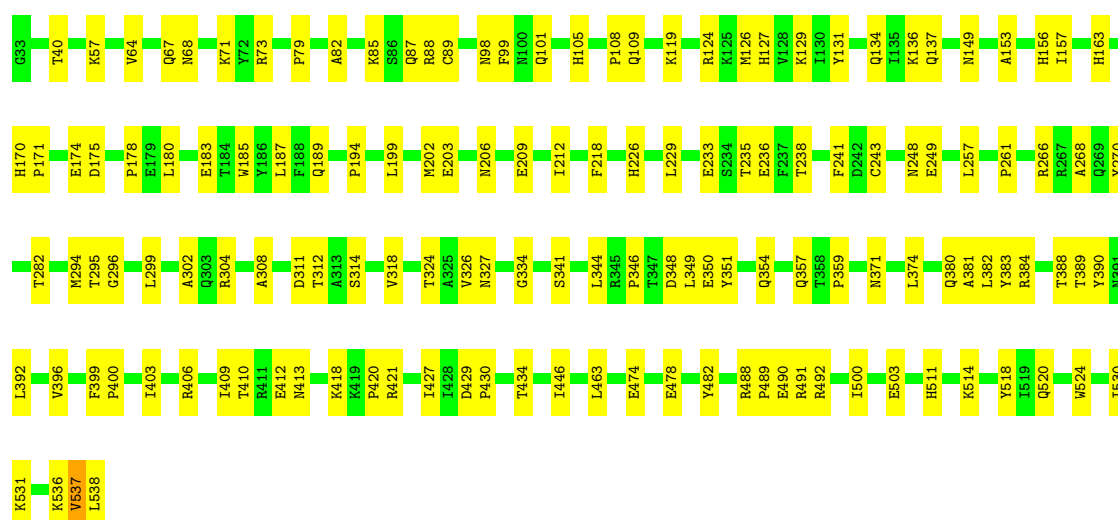
• Molecule 1: VP2

Chain P: 71% 29%



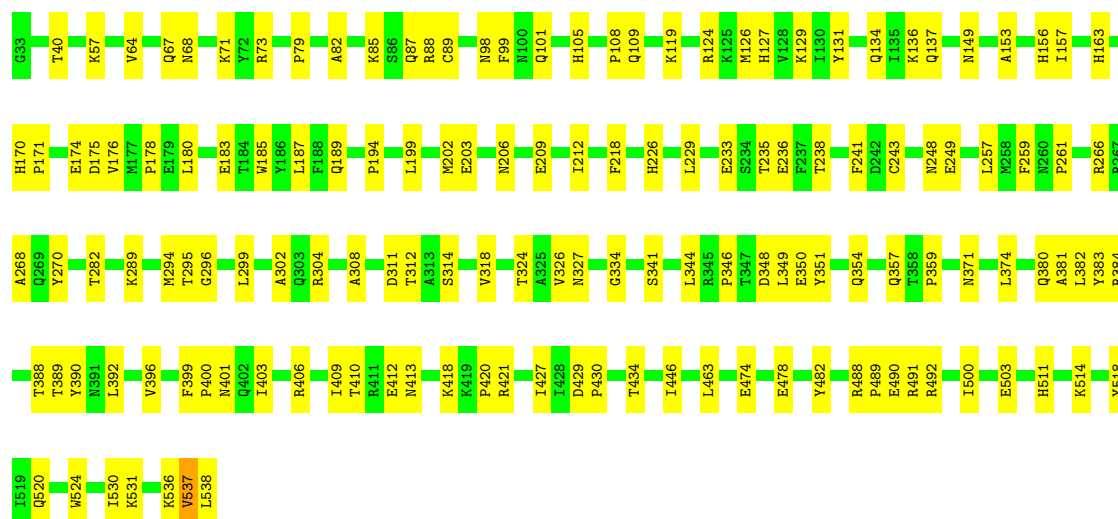
• Molecule 1: VP2

Chain Q: 72% 28%



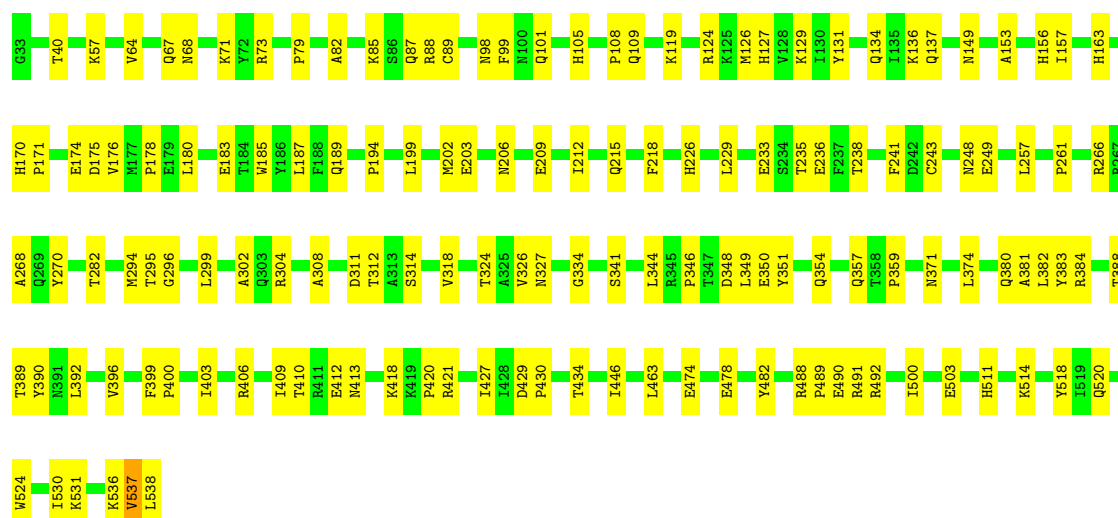
• Molecule 1: VP2

Chain R:  71% 28%



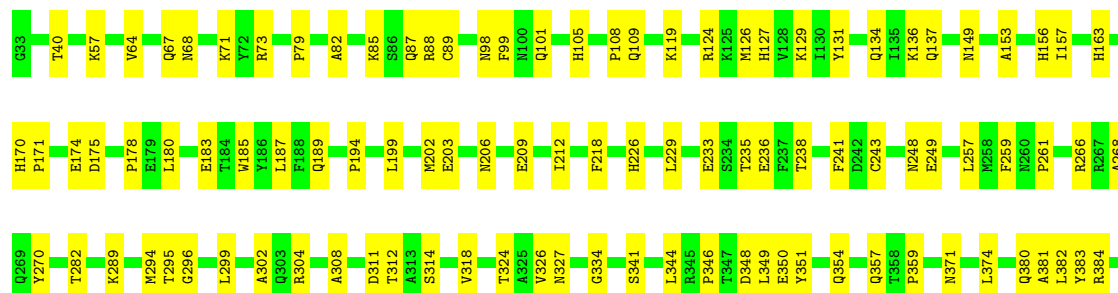
• Molecule 1: VP2

Chain S:  72% 28%



• Molecule 1: VP2

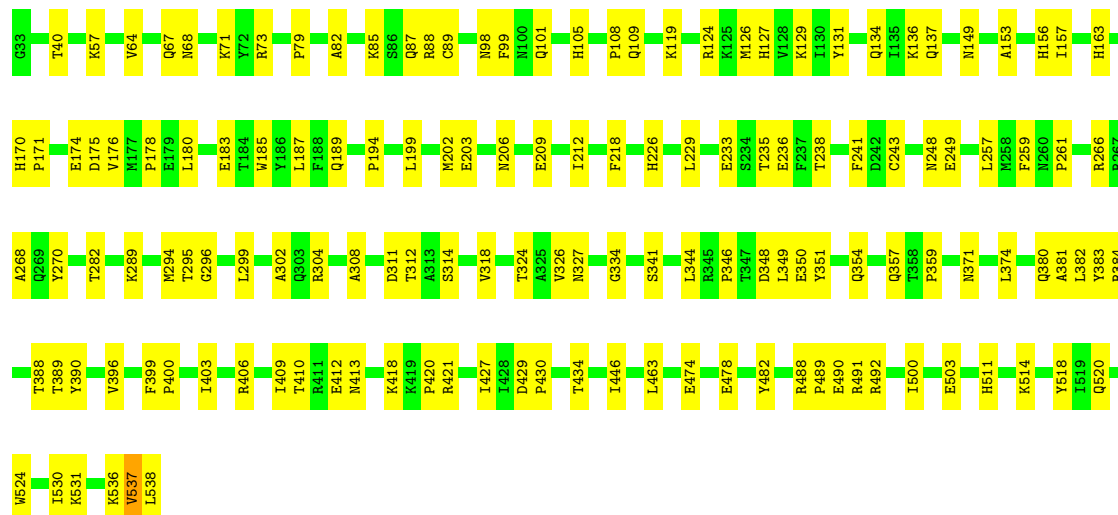
Chain T:  72% 28%





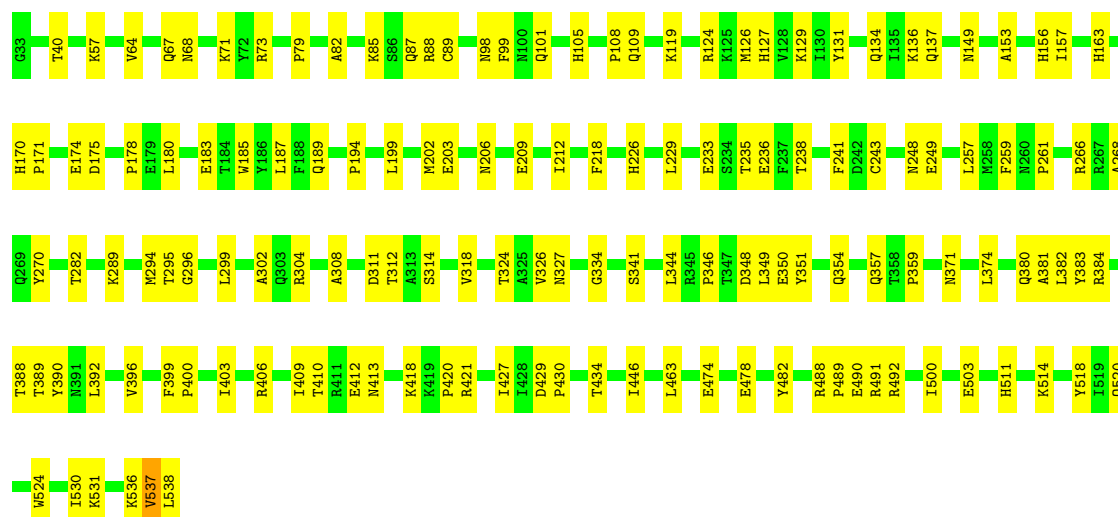
- Molecule 1: VP2

Chain U:  72%  28%



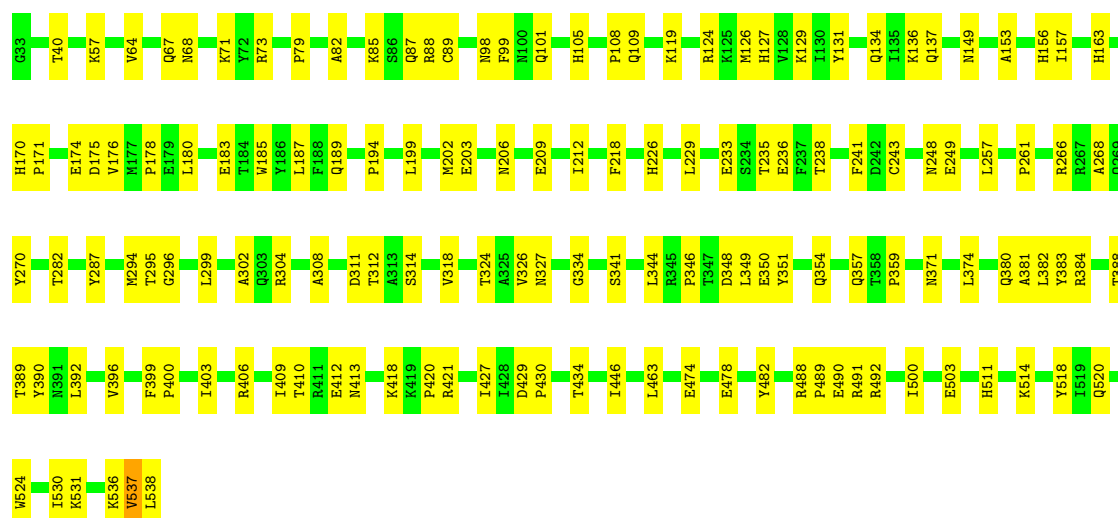
- Molecule 1: VP2

Chain V:  72%  28%



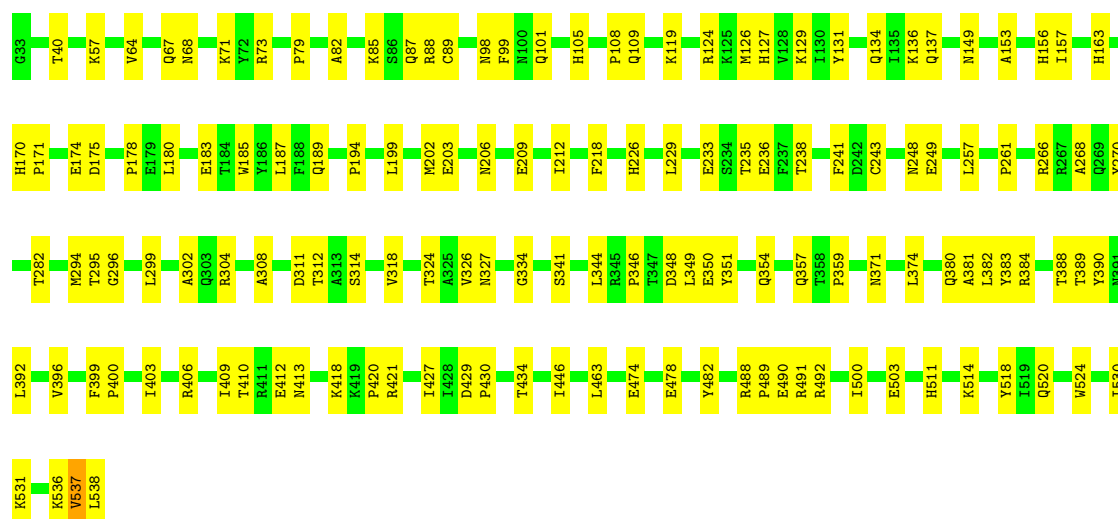
- Molecule 1: VP2

Chain W:  72%  28%



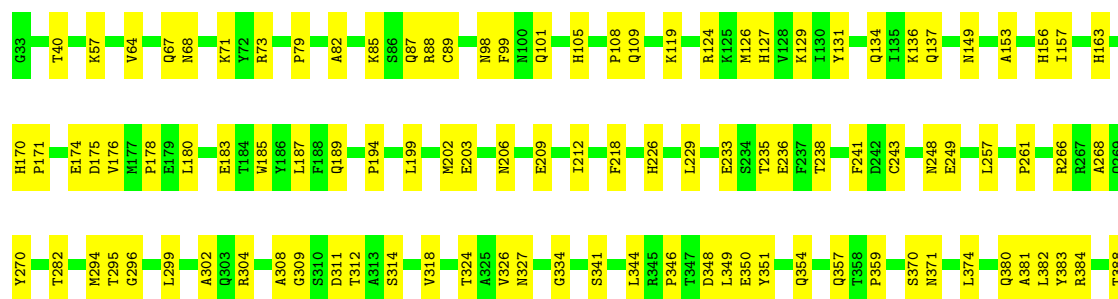
• Molecule 1: VP2

Chain X: 72% 28%



• Molecule 1: VP2

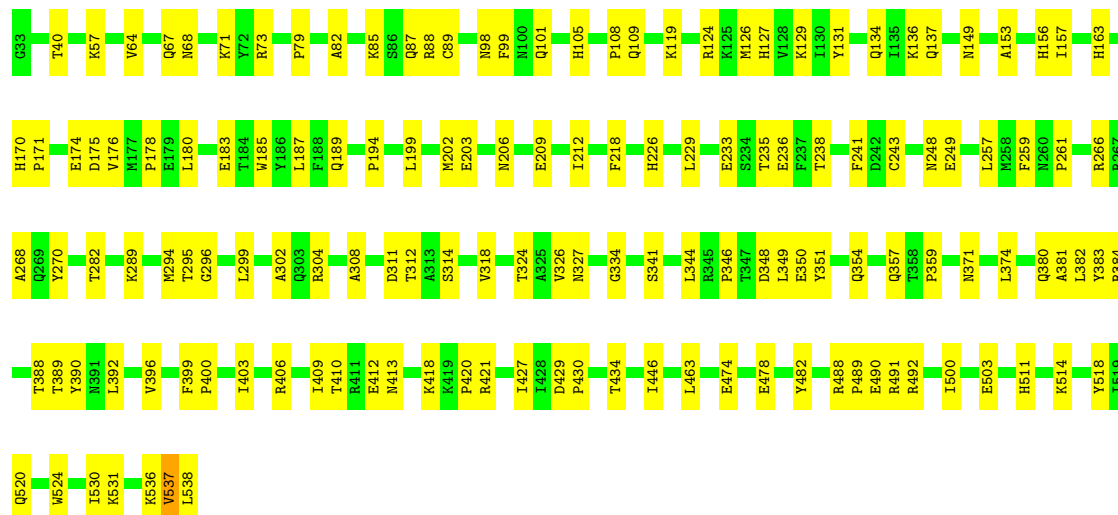
Chain Y: 71% 28%





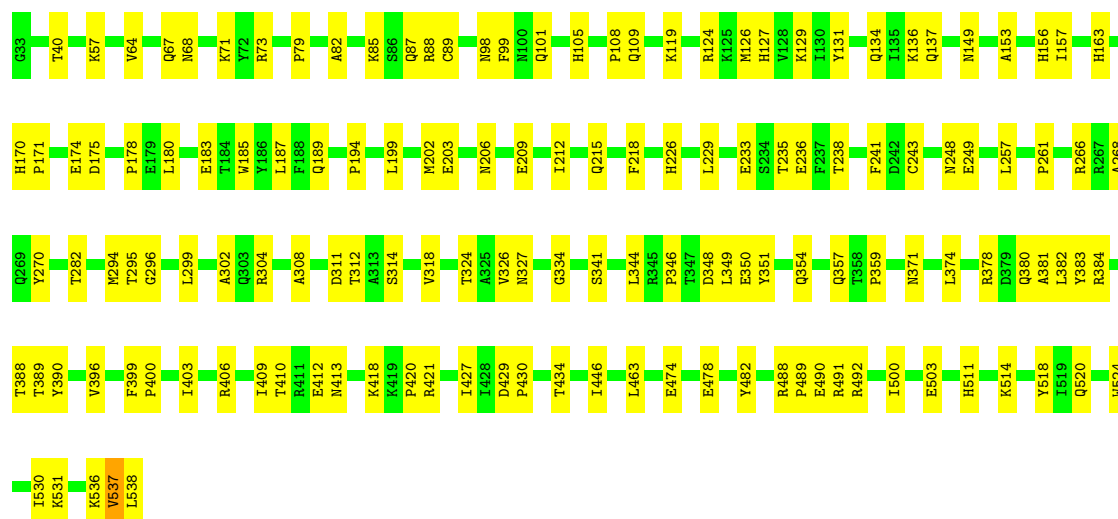
- Molecule 1: VP2

Chain Z: 72% 28%



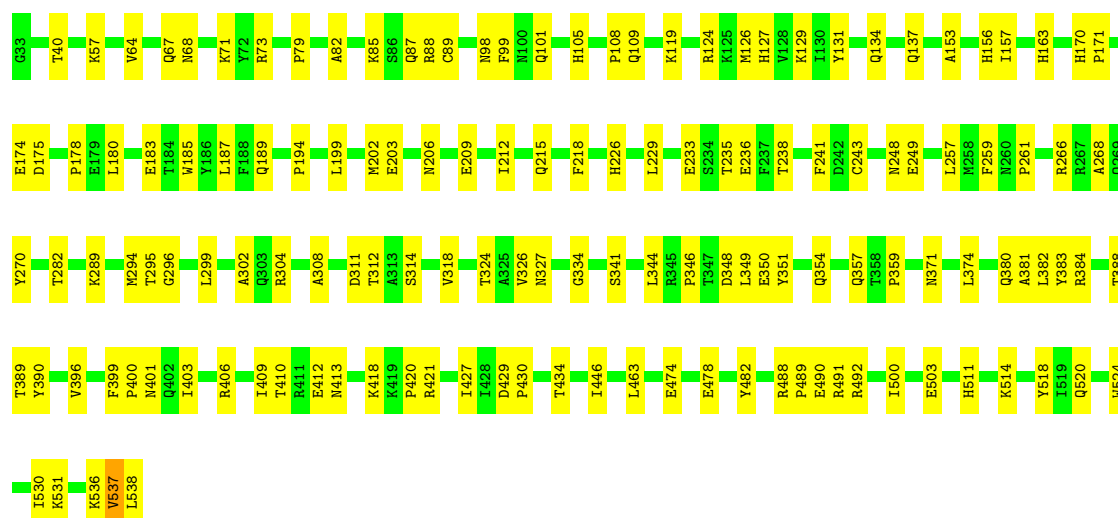
- Molecule 1: VP2

Chain a: 72% 28%



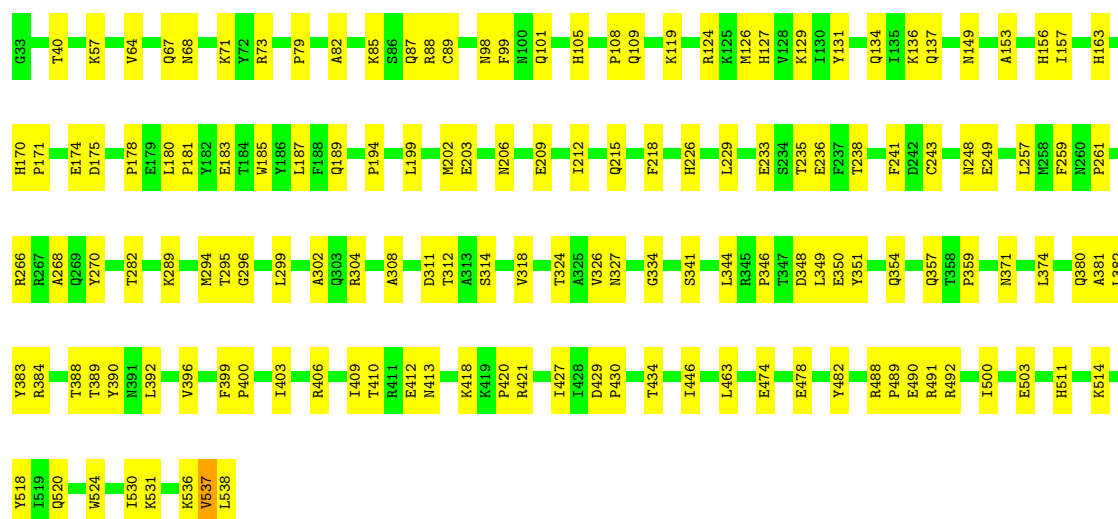
- Molecule 1: VP2

Chain b: 72% 28%



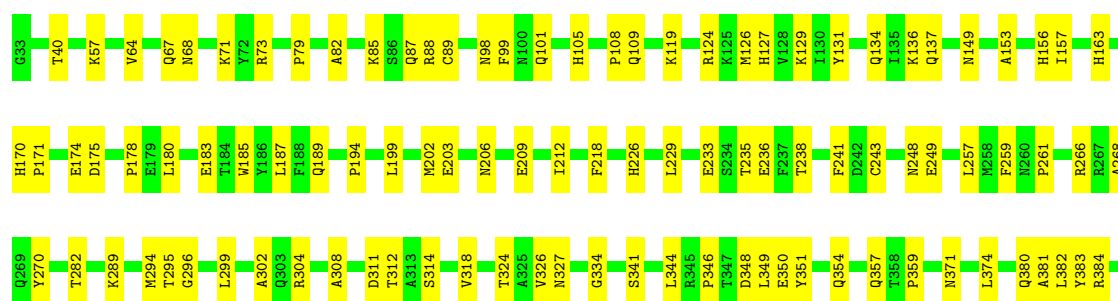
• Molecule 1: VP2

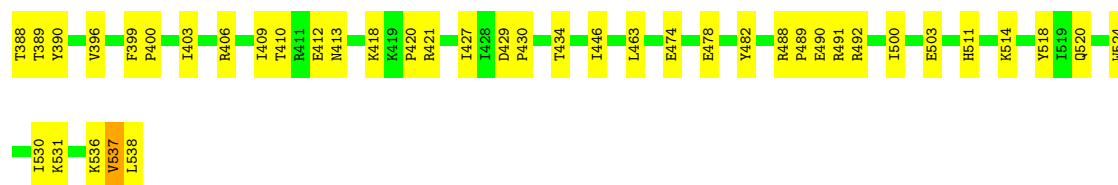
Chain c: 71% 28%



• Molecule 1: VP2

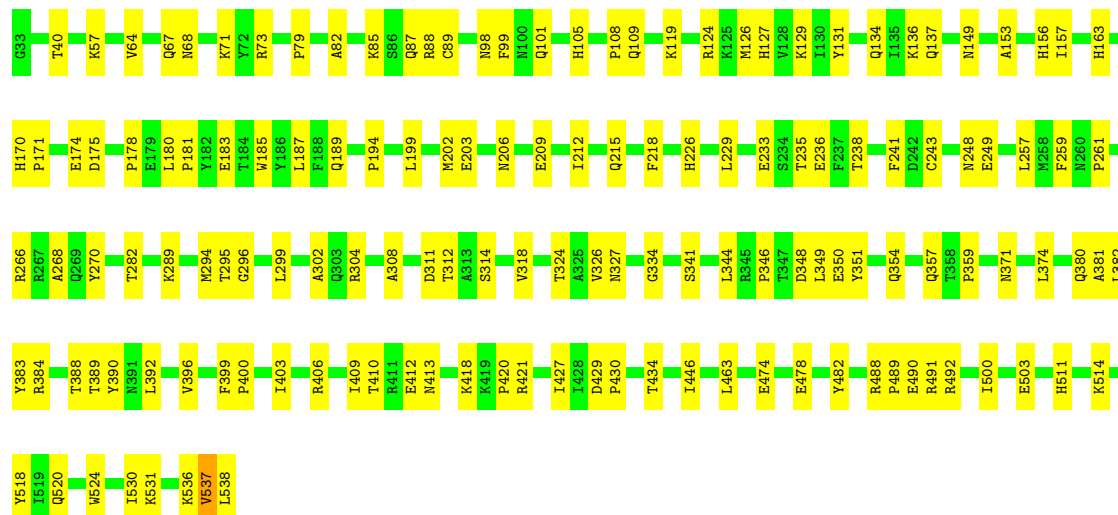
Chain d: 72% 28%





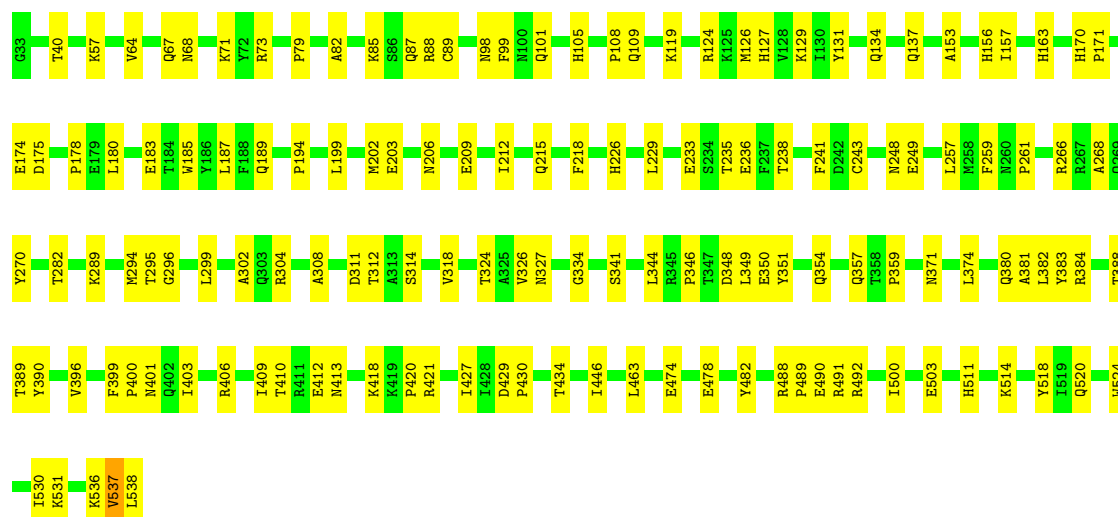
- Molecule 1: VP2

Chain e: 71% 28%



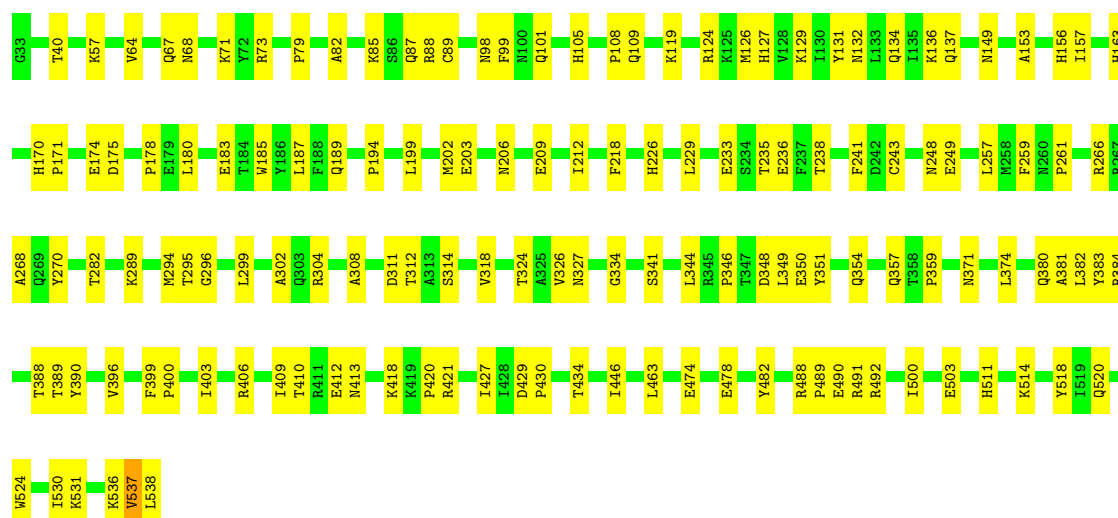
- Molecule 1: VP2

Chain f: 72% 28%



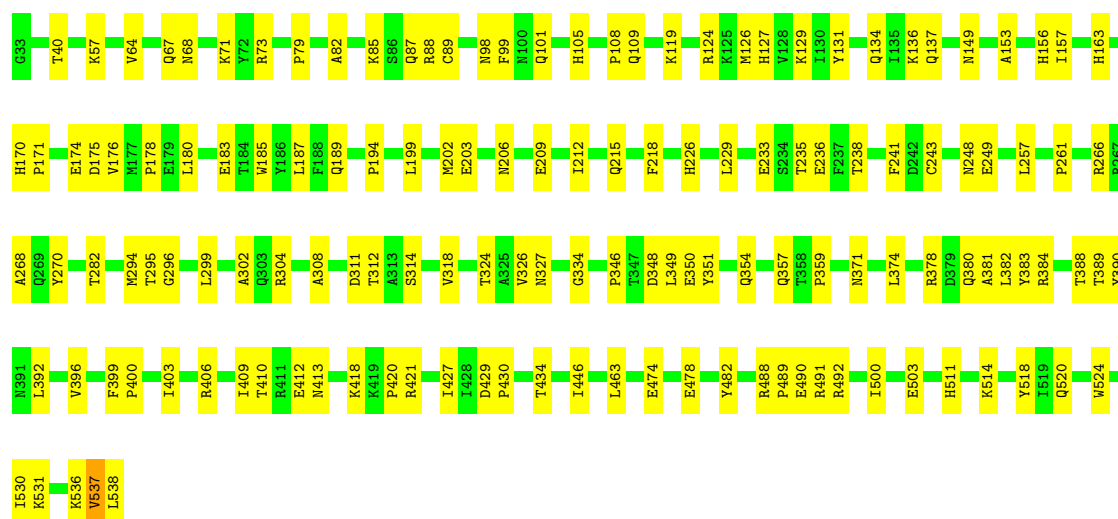
- Molecule 1: VP2

Chain g: 72% 28%



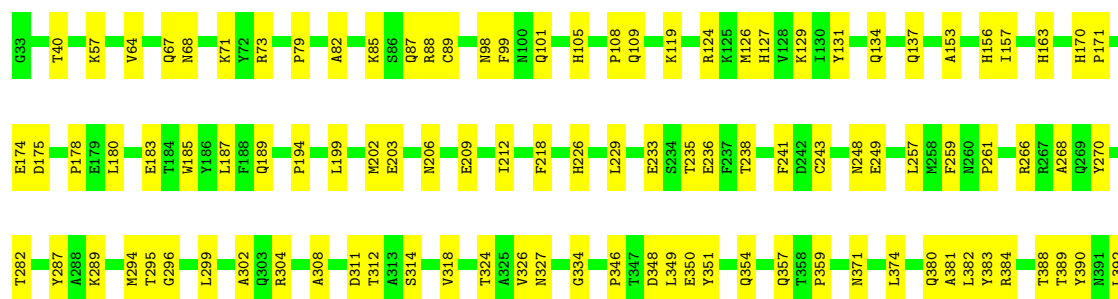
• Molecule 1: VP2

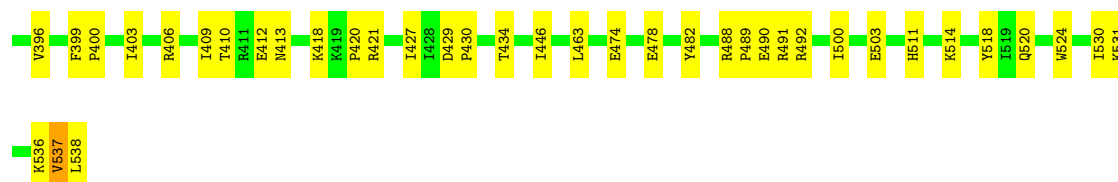
Chain h: 72% 28%



• Molecule 1: VP2

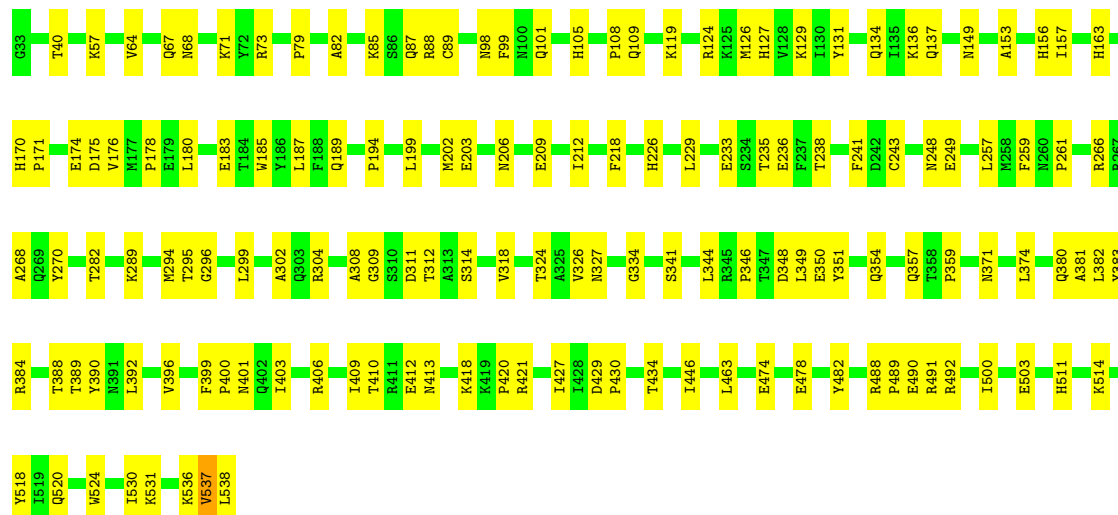
Chain i: 72% 27%





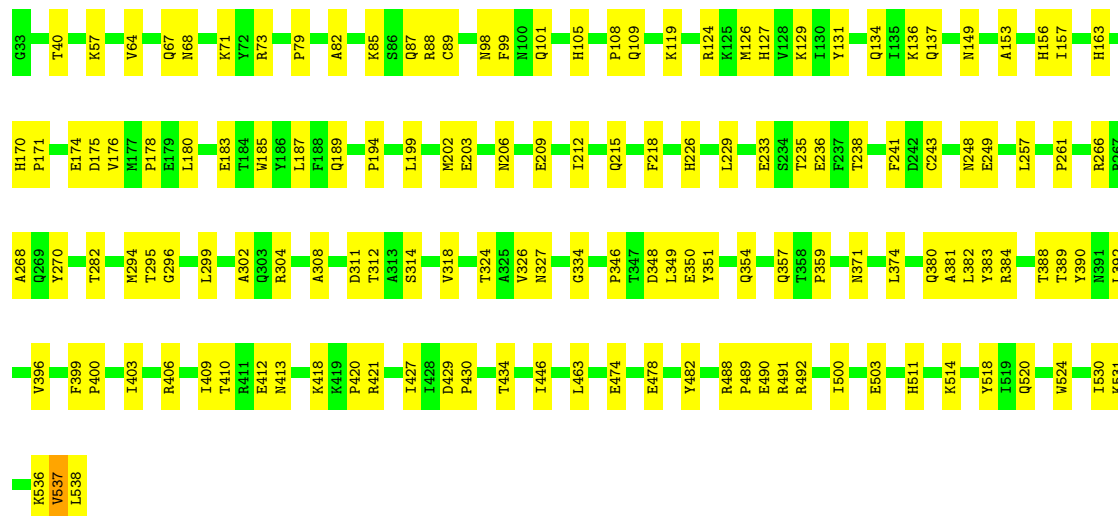
• Molecule 1: VP2

Chain j: 71% 29%



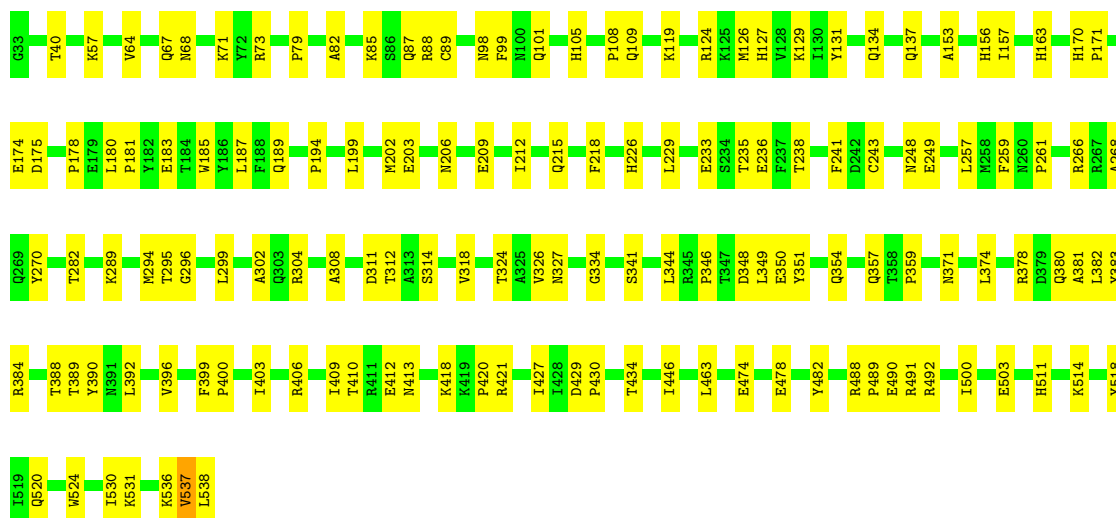
• Molecule 1: VP2

Chain k: 72% 28%



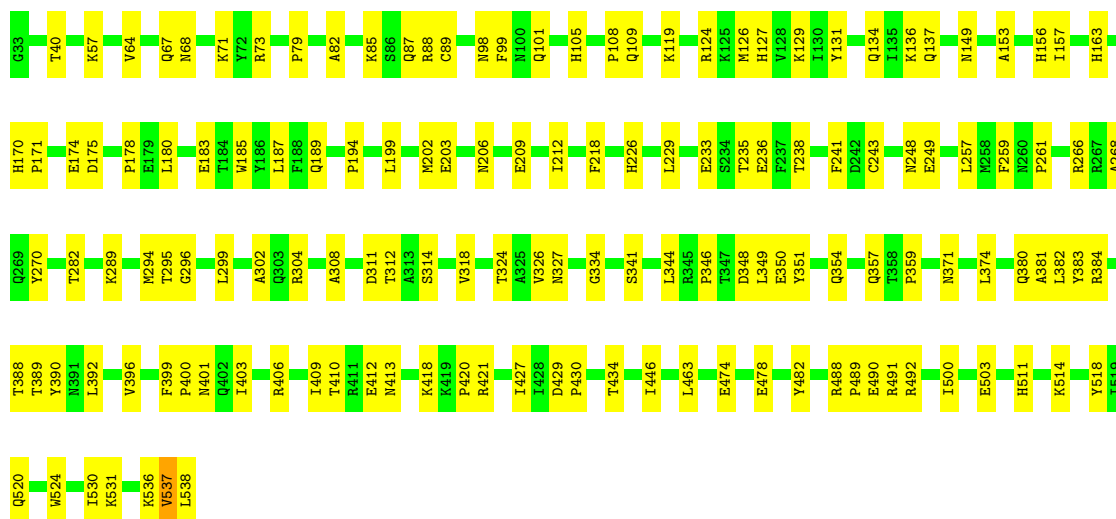
• Molecule 1: VP2

Chain l: 72% 28%



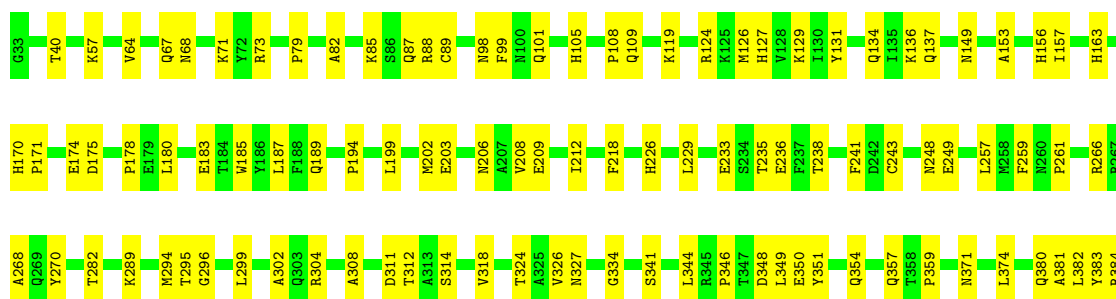
• Molecule 1: VP2

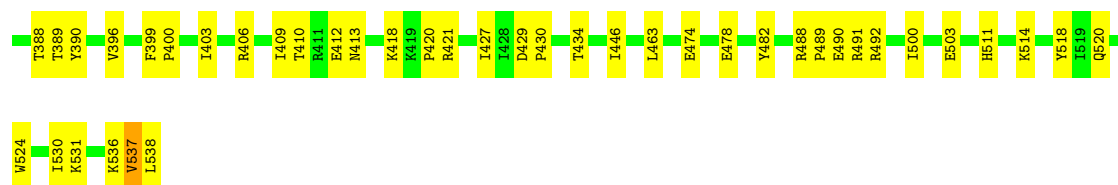
Chain m: 72% 28%



• Molecule 1: VP2

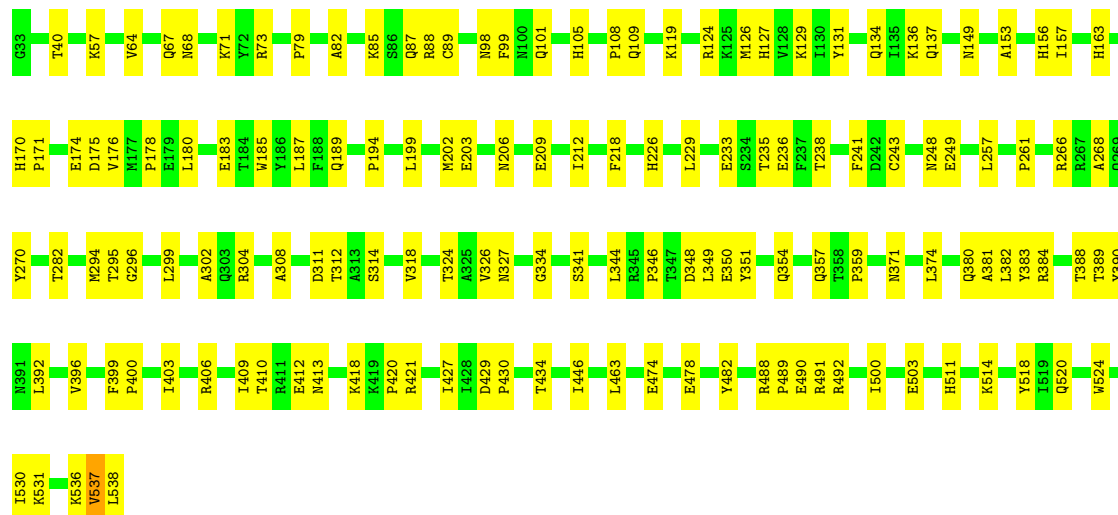
Chain n: 72% 28%





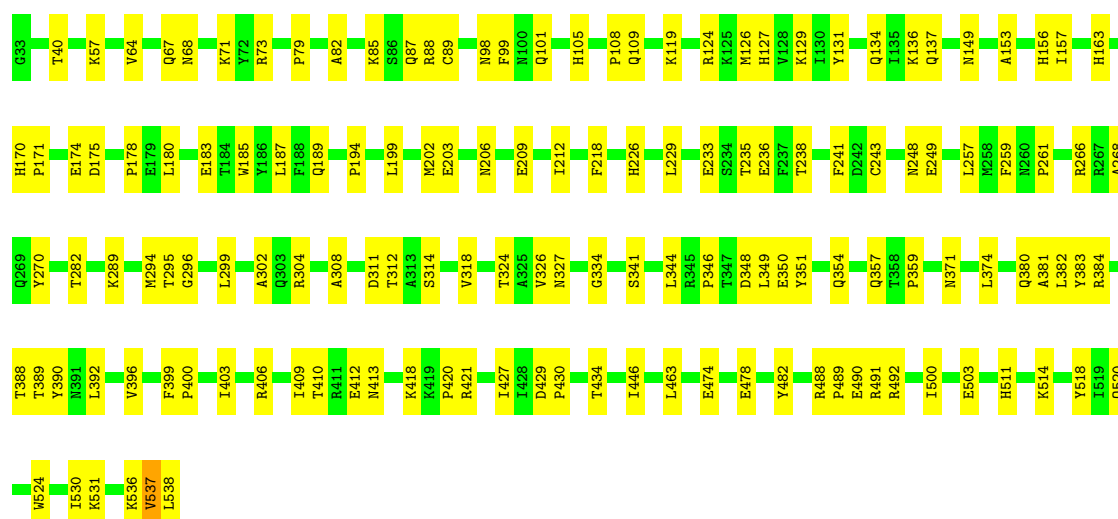
- Molecule 1: VP2

Chain o: 72% 28%



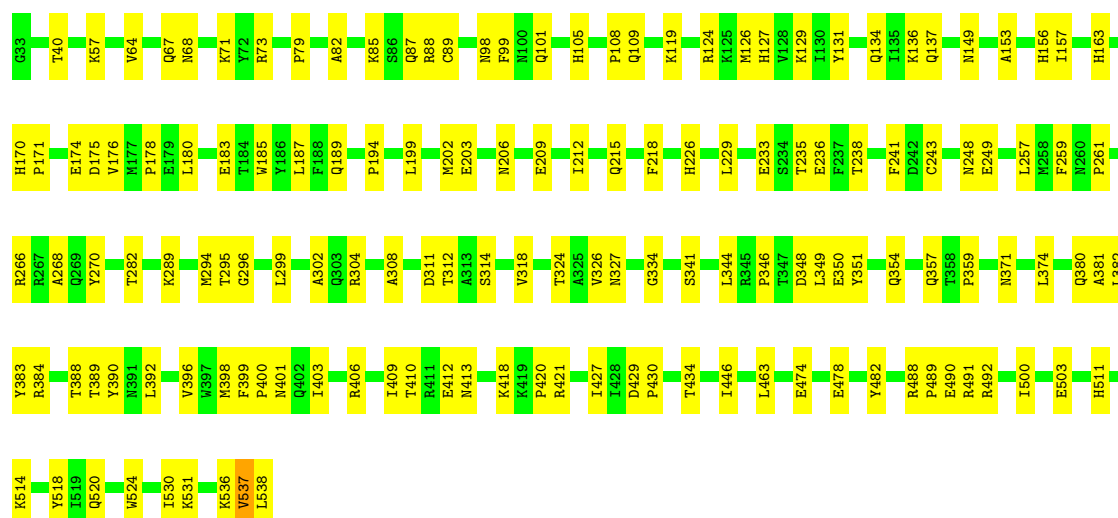
- Molecule 1: VP2

Chain p: 72% 28%



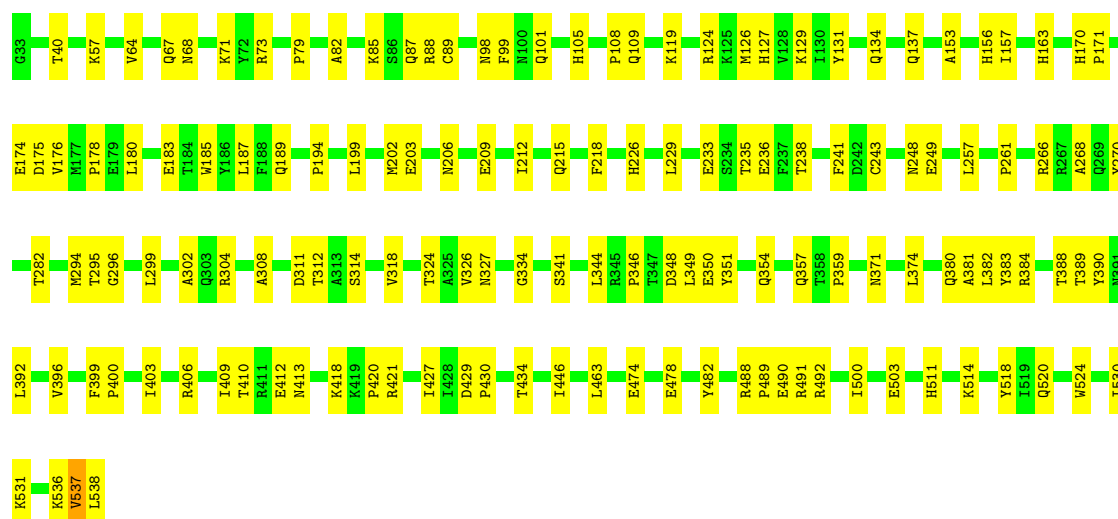
- Molecule 1: VP2

Chain q: 71% 29%



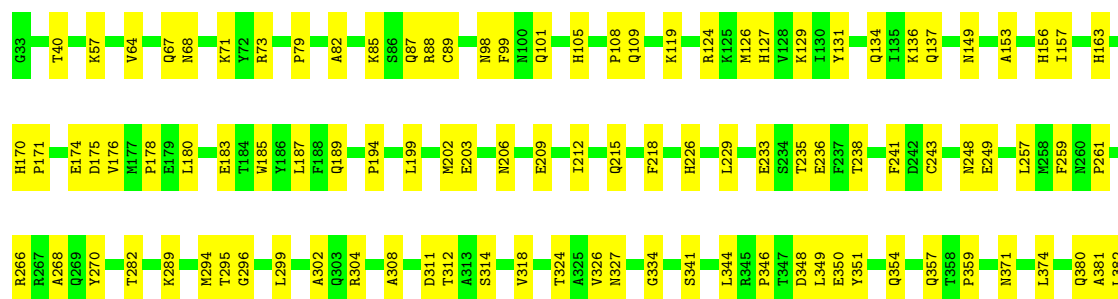
• Molecule 1: VP2

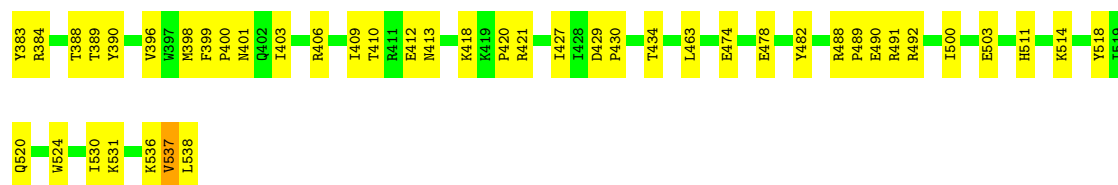
Chain r: 72% 28%



• Molecule 1: VP2

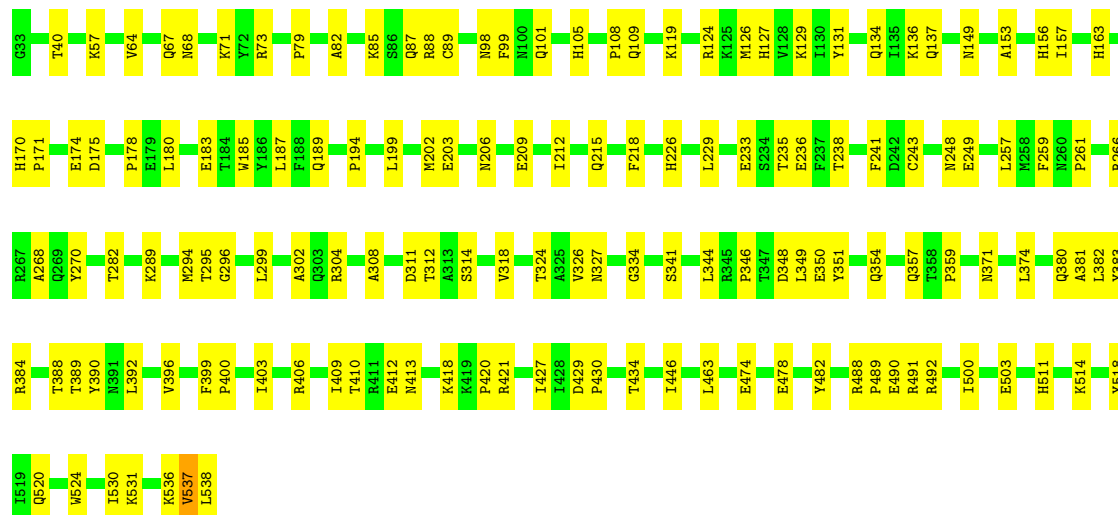
Chain s: 71% 28%





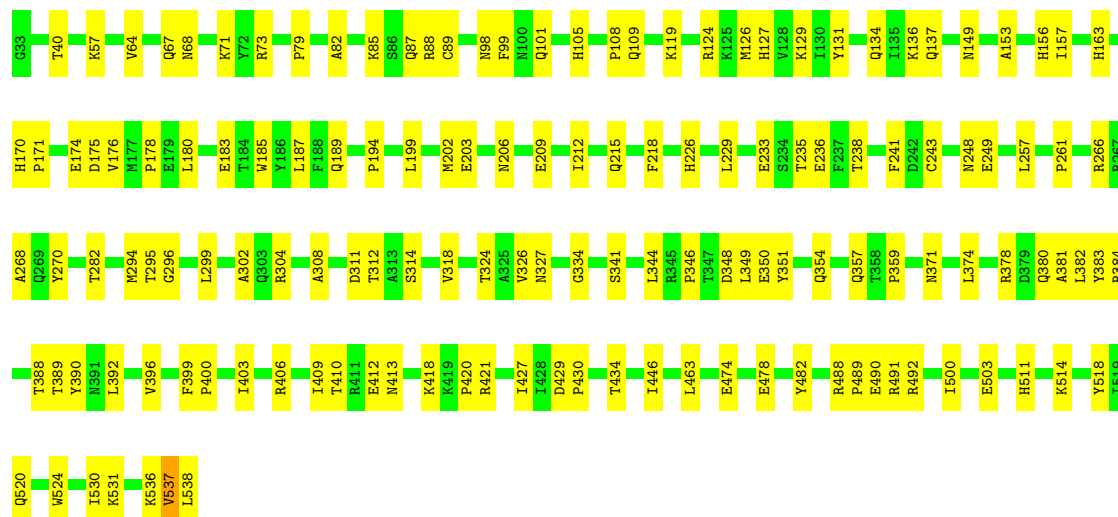
- Molecule 1: VP2

Chain t: 72% 28%



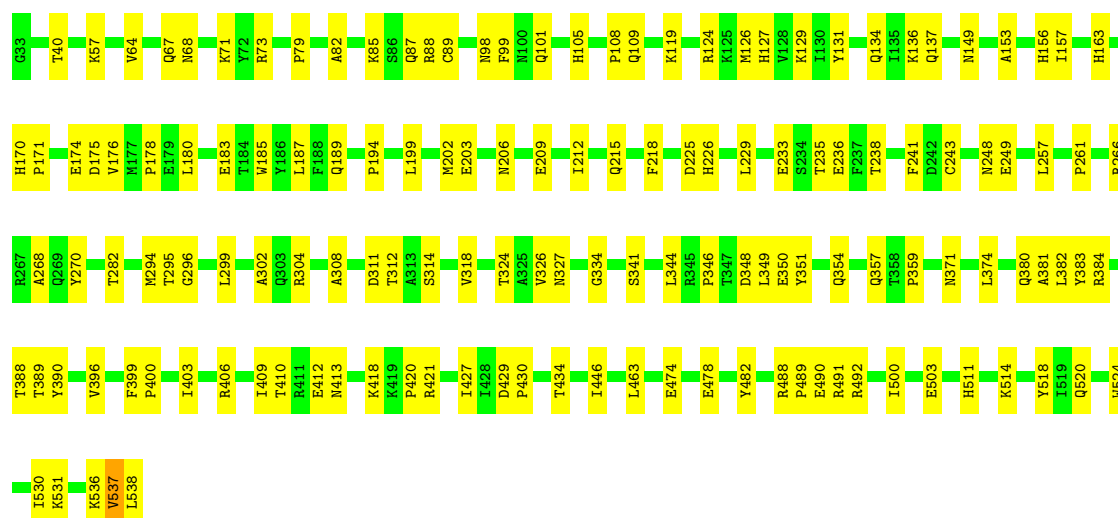
- Molecule 1: VP2

Chain u: 72% 28%



- Molecule 1: VP2

Chain v: 72% 28%



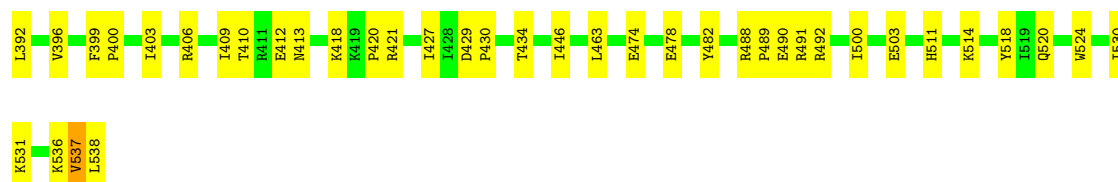
Chain w:



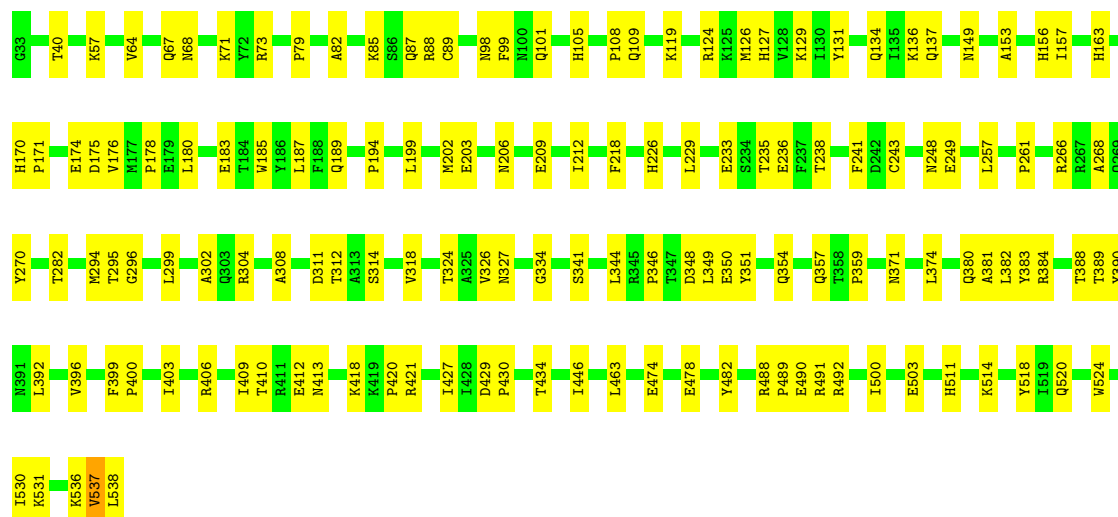
• Molecule 1: VP2

Chain x:

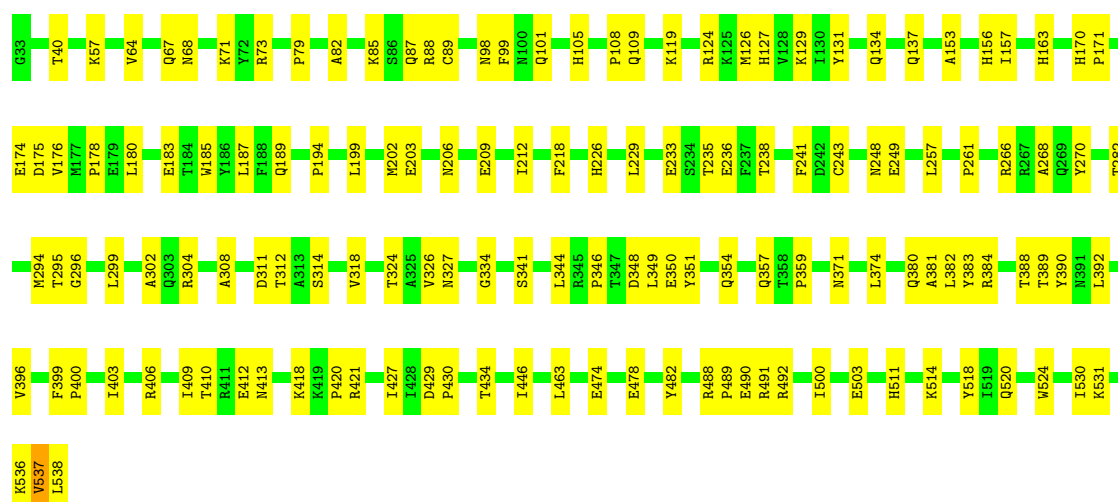




• Molecule 1: VP2

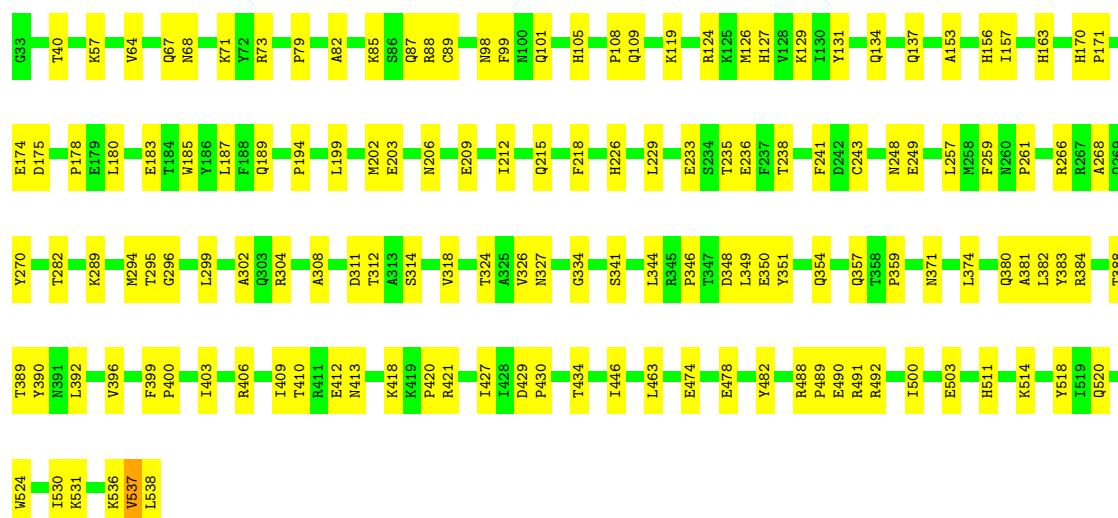


• Molecule 1: VP2



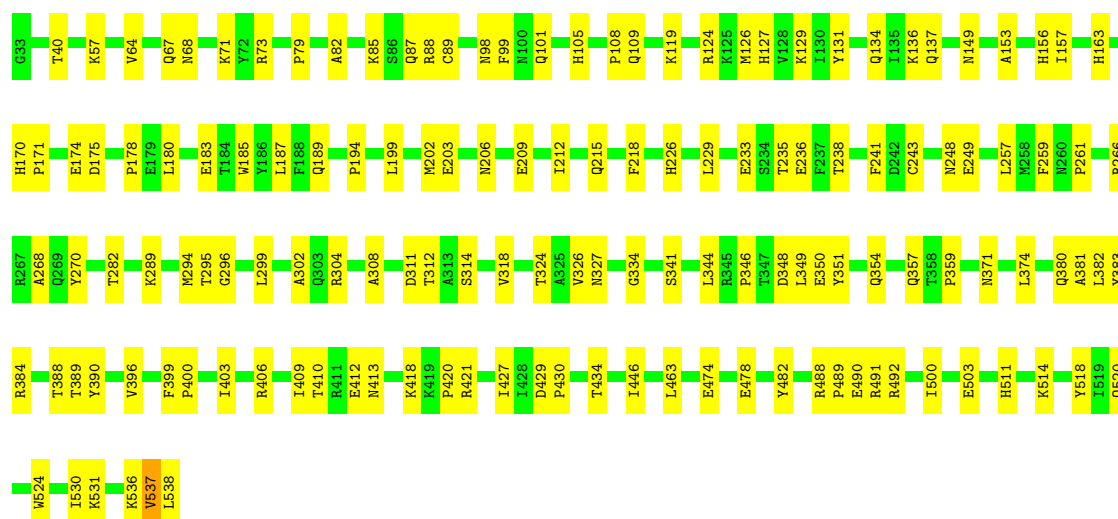
• Molecule 1: VP2





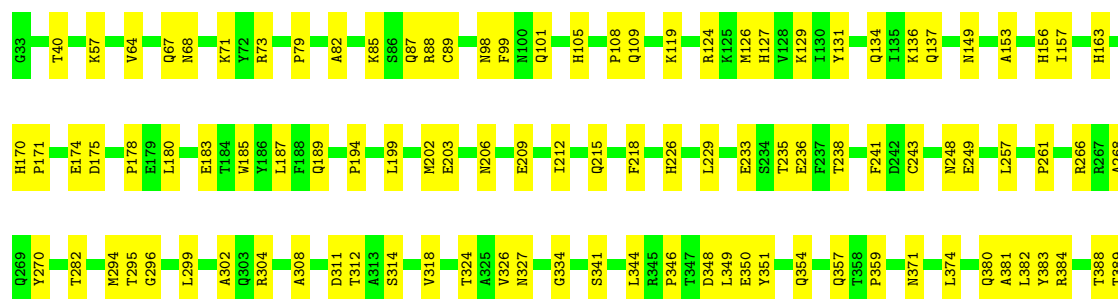
• Molecule 1: VP2

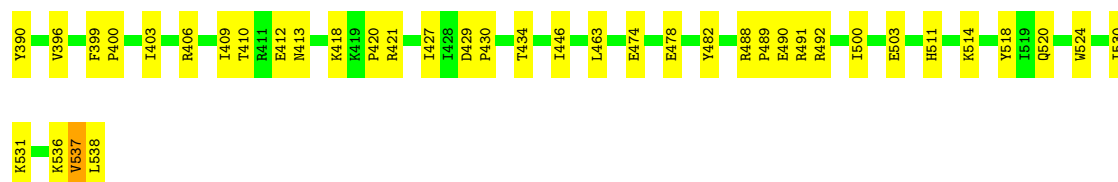
Chain 2: 72% 28%



• Molecule 1: VP2

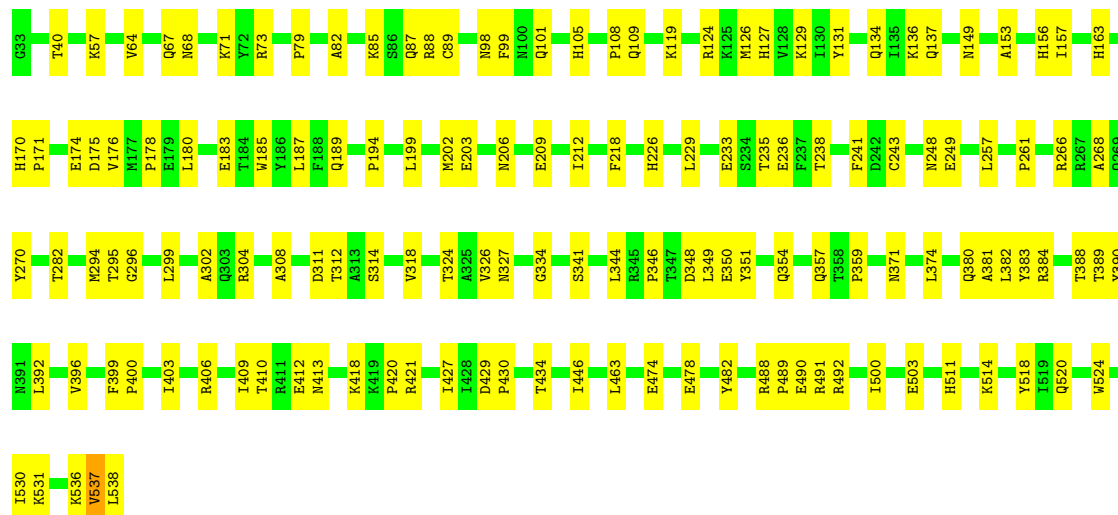
Chain 3: 72% 28%





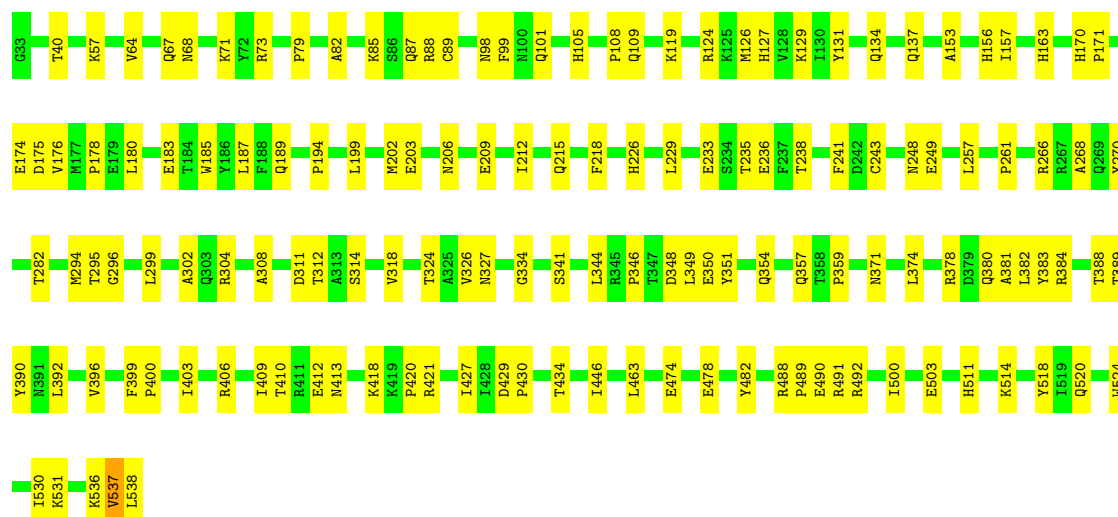
• Molecule 1: VP2

Chain 4: 72% 28%



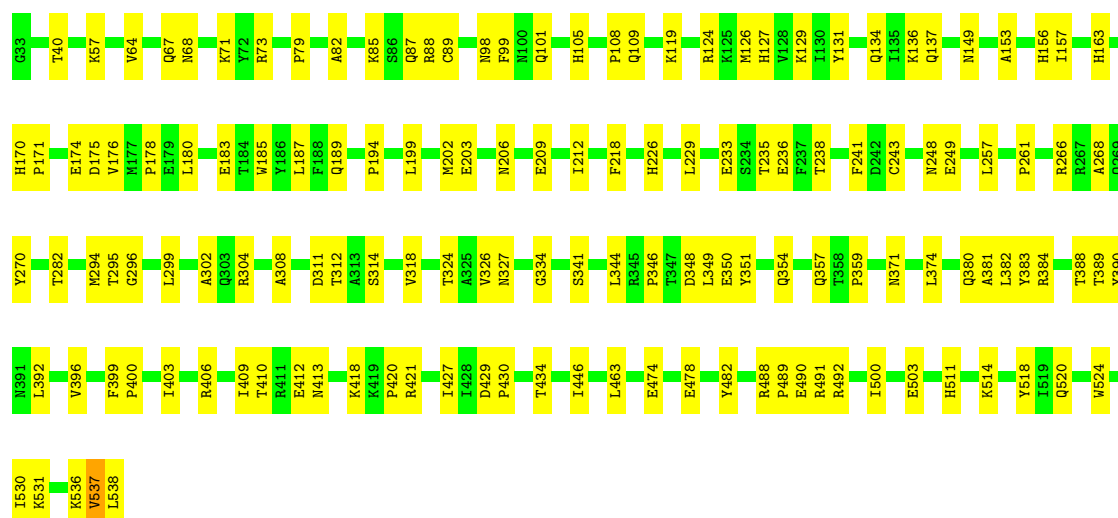
• Molecule 1: VP2

Chain 5: 72% 28%



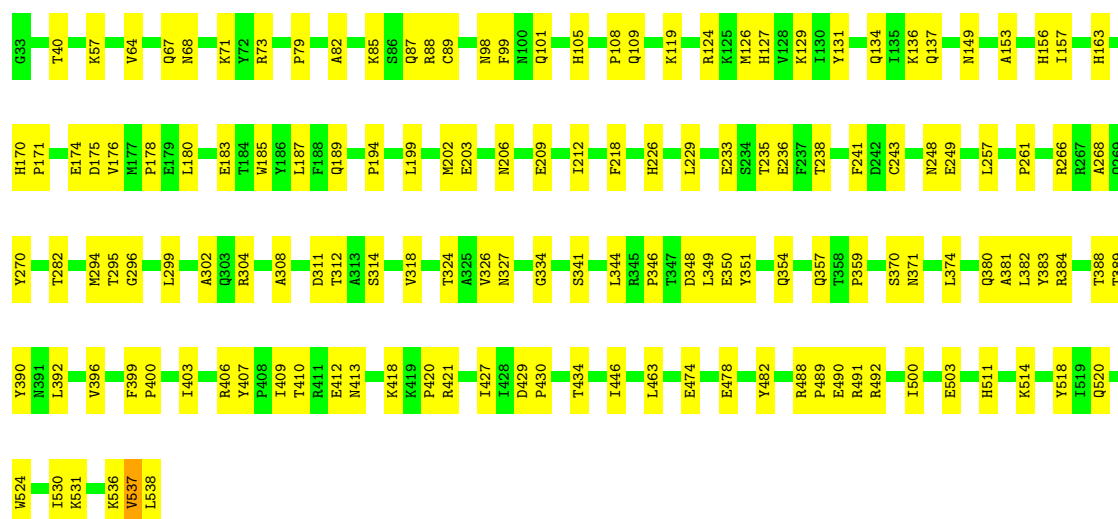
• Molecule 1: VP2

Chain 6: 72% 28%



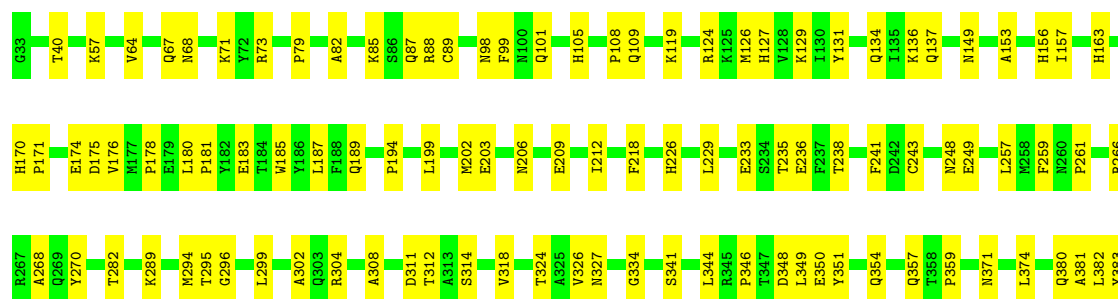
• Molecule 1: VP2

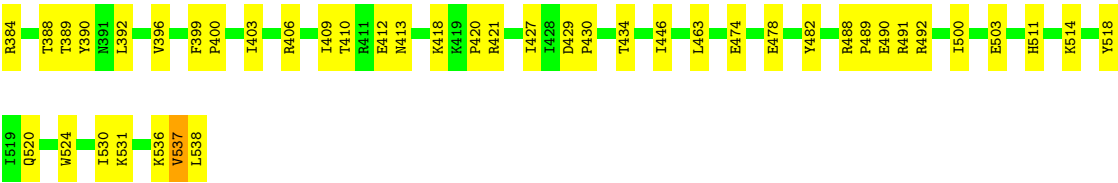
Chain 7: 72% 28%



• Molecule 1: VP2

Chain 8: 71% 28%





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	30308	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	17.639	Depositor
Minimum map value	-10.713	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.5	Depositor
Map size (Å)	408.6, 408.6, 408.6	wwPDB
Map dimensions	450, 450, 450	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.908, 0.908, 0.908	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	0.40	0/4178	0.53	1/5700 (0.0%)
1	2	0.40	0/4178	0.53	1/5700 (0.0%)
1	3	0.40	0/4178	0.53	1/5700 (0.0%)
1	4	0.40	0/4178	0.53	1/5700 (0.0%)
1	5	0.40	0/4178	0.53	1/5700 (0.0%)
1	6	0.40	0/4178	0.53	1/5700 (0.0%)
1	7	0.40	0/4178	0.53	1/5700 (0.0%)
1	8	0.40	0/4178	0.53	1/5700 (0.0%)
1	A	0.40	0/4178	0.53	1/5700 (0.0%)
1	B	0.40	0/4178	0.53	1/5700 (0.0%)
1	C	0.40	0/4178	0.53	1/5700 (0.0%)
1	D	0.40	0/4178	0.53	1/5700 (0.0%)
1	E	0.40	0/4178	0.53	1/5700 (0.0%)
1	F	0.40	0/4178	0.53	1/5700 (0.0%)
1	G	0.40	0/4178	0.53	1/5700 (0.0%)
1	H	0.40	0/4178	0.53	1/5700 (0.0%)
1	I	0.40	0/4178	0.53	1/5700 (0.0%)
1	J	0.40	0/4178	0.53	1/5700 (0.0%)
1	K	0.40	0/4178	0.53	1/5700 (0.0%)
1	L	0.40	0/4178	0.53	1/5700 (0.0%)
1	M	0.40	0/4178	0.53	1/5700 (0.0%)
1	N	0.40	0/4178	0.53	1/5700 (0.0%)
1	O	0.40	0/4178	0.53	1/5700 (0.0%)
1	P	0.40	0/4178	0.53	1/5700 (0.0%)
1	Q	0.40	0/4178	0.53	1/5700 (0.0%)
1	R	0.40	0/4178	0.53	1/5700 (0.0%)
1	S	0.40	0/4178	0.53	1/5700 (0.0%)
1	T	0.40	0/4178	0.53	1/5700 (0.0%)
1	U	0.40	0/4178	0.53	1/5700 (0.0%)
1	V	0.40	0/4178	0.53	1/5700 (0.0%)
1	W	0.40	0/4178	0.53	1/5700 (0.0%)
1	X	0.40	0/4178	0.53	1/5700 (0.0%)
1	Y	0.40	0/4178	0.53	1/5700 (0.0%)
1	Z	0.40	0/4178	0.53	1/5700 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.40	0/4178	0.53	1/5700 (0.0%)
1	b	0.40	0/4178	0.53	1/5700 (0.0%)
1	c	0.40	0/4178	0.53	1/5700 (0.0%)
1	d	0.40	0/4178	0.53	1/5700 (0.0%)
1	e	0.40	0/4178	0.53	1/5700 (0.0%)
1	f	0.40	0/4178	0.53	1/5700 (0.0%)
1	g	0.40	0/4178	0.53	1/5700 (0.0%)
1	h	0.40	0/4178	0.53	1/5700 (0.0%)
1	i	0.40	0/4178	0.53	1/5700 (0.0%)
1	j	0.40	0/4178	0.53	1/5700 (0.0%)
1	k	0.40	0/4178	0.53	1/5700 (0.0%)
1	l	0.40	0/4178	0.53	1/5700 (0.0%)
1	m	0.40	0/4178	0.53	1/5700 (0.0%)
1	n	0.40	0/4178	0.53	1/5700 (0.0%)
1	o	0.40	0/4178	0.53	1/5700 (0.0%)
1	p	0.40	0/4178	0.53	1/5700 (0.0%)
1	q	0.40	0/4178	0.53	1/5700 (0.0%)
1	r	0.40	0/4178	0.53	1/5700 (0.0%)
1	s	0.40	0/4178	0.53	1/5700 (0.0%)
1	t	0.40	0/4178	0.53	1/5700 (0.0%)
1	u	0.40	0/4178	0.53	1/5700 (0.0%)
1	v	0.40	0/4178	0.53	1/5700 (0.0%)
1	w	0.40	0/4178	0.53	1/5700 (0.0%)
1	x	0.40	0/4178	0.53	1/5700 (0.0%)
1	y	0.40	0/4178	0.53	1/5700 (0.0%)
1	z	0.40	0/4178	0.53	1/5700 (0.0%)
All	All	0.40	0/250680	0.53	60/342000 (0.0%)

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

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

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

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

There are no bond length outliers.

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	537	VAL	O-C-N	-16.80	101.94	122.77
1	6	537	VAL	O-C-N	-16.79	101.95	122.77
1	5	537	VAL	O-C-N	-16.78	101.96	122.77
1	u	537	VAL	O-C-N	-16.78	101.97	122.77
1	d	537	VAL	O-C-N	-16.77	101.97	122.77
1	n	537	VAL	O-C-N	-16.77	101.97	122.77
1	Z	537	VAL	O-C-N	-16.77	101.98	122.77
1	l	537	VAL	O-C-N	-16.77	101.98	122.77
1	7	537	VAL	O-C-N	-16.77	101.98	122.77
1	8	537	VAL	O-C-N	-16.77	101.98	122.77
1	L	537	VAL	O-C-N	-16.76	101.99	122.77
1	N	537	VAL	O-C-N	-16.76	101.98	122.77
1	U	537	VAL	O-C-N	-16.76	101.99	122.77
1	z	537	VAL	O-C-N	-16.76	101.99	122.77
1	B	537	VAL	O-C-N	-16.76	101.99	122.77
1	R	537	VAL	O-C-N	-16.76	101.99	122.77
1	E	537	VAL	O-C-N	-16.76	101.99	122.77
1	i	537	VAL	O-C-N	-16.76	101.99	122.77
1	s	537	VAL	O-C-N	-16.76	101.99	122.77
1	I	537	VAL	O-C-N	-16.76	101.99	122.77
1	x	537	VAL	O-C-N	-16.76	101.99	122.77
1	t	537	VAL	O-C-N	-16.75	102.00	122.77
1	K	537	VAL	O-C-N	-16.75	102.00	122.77
1	4	537	VAL	O-C-N	-16.75	102.00	122.77
1	D	537	VAL	O-C-N	-16.74	102.01	122.77
1	W	537	VAL	O-C-N	-16.74	102.01	122.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	c	537	VAL	O-C-N	-16.74	102.01	122.77
1	k	537	VAL	O-C-N	-16.74	102.01	122.77
1	C	537	VAL	O-C-N	-16.74	102.02	122.77
1	Q	537	VAL	O-C-N	-16.74	102.02	122.77
1	V	537	VAL	O-C-N	-16.74	102.02	122.77
1	g	537	VAL	O-C-N	-16.74	102.02	122.77
1	p	537	VAL	O-C-N	-16.74	102.02	122.77
1	H	537	VAL	O-C-N	-16.73	102.02	122.77
1	P	537	VAL	O-C-N	-16.73	102.02	122.77
1	Y	537	VAL	O-C-N	-16.73	102.02	122.77
1	j	537	VAL	O-C-N	-16.73	102.02	122.77
1	r	537	VAL	O-C-N	-16.73	102.03	122.77
1	2	537	VAL	O-C-N	-16.73	102.03	122.77
1	a	537	VAL	O-C-N	-16.73	102.03	122.77
1	b	537	VAL	O-C-N	-16.73	102.03	122.77
1	e	537	VAL	O-C-N	-16.73	102.03	122.77
1	f	537	VAL	O-C-N	-16.73	102.03	122.77
1	l	537	VAL	O-C-N	-16.73	102.03	122.77
1	3	537	VAL	O-C-N	-16.73	102.03	122.77
1	O	537	VAL	O-C-N	-16.72	102.03	122.77
1	J	537	VAL	O-C-N	-16.72	102.03	122.77
1	S	537	VAL	O-C-N	-16.72	102.03	122.77
1	q	537	VAL	O-C-N	-16.72	102.04	122.77
1	A	537	VAL	O-C-N	-16.71	102.04	122.77
1	F	537	VAL	O-C-N	-16.71	102.04	122.77
1	v	537	VAL	O-C-N	-16.71	102.04	122.77
1	y	537	VAL	O-C-N	-16.71	102.04	122.77
1	M	537	VAL	O-C-N	-16.71	102.05	122.77
1	X	537	VAL	O-C-N	-16.71	102.05	122.77
1	h	537	VAL	O-C-N	-16.71	102.05	122.77
1	o	537	VAL	O-C-N	-16.71	102.05	122.77
1	w	537	VAL	O-C-N	-16.71	102.05	122.77
1	m	537	VAL	O-C-N	-16.71	102.05	122.77
1	T	537	VAL	O-C-N	-16.70	102.06	122.77

There are no chirality outliers.

All (60) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	537	VAL	Mainchain
1	2	537	VAL	Mainchain
1	3	537	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	4	537	VAL	Mainchain
1	5	537	VAL	Mainchain
1	6	537	VAL	Mainchain
1	7	537	VAL	Mainchain
1	8	537	VAL	Mainchain
1	A	537	VAL	Mainchain
1	B	537	VAL	Mainchain
1	C	537	VAL	Mainchain
1	D	537	VAL	Mainchain
1	E	537	VAL	Mainchain
1	F	537	VAL	Mainchain
1	G	537	VAL	Mainchain
1	H	537	VAL	Mainchain
1	I	537	VAL	Mainchain
1	J	537	VAL	Mainchain
1	K	537	VAL	Mainchain
1	L	537	VAL	Mainchain
1	M	537	VAL	Mainchain
1	N	537	VAL	Mainchain
1	O	537	VAL	Mainchain
1	P	537	VAL	Mainchain
1	Q	537	VAL	Mainchain
1	R	537	VAL	Mainchain
1	S	537	VAL	Mainchain
1	T	537	VAL	Mainchain
1	U	537	VAL	Mainchain
1	V	537	VAL	Mainchain
1	W	537	VAL	Mainchain
1	X	537	VAL	Mainchain
1	Y	537	VAL	Mainchain
1	Z	537	VAL	Mainchain
1	a	537	VAL	Mainchain
1	b	537	VAL	Mainchain
1	c	537	VAL	Mainchain
1	d	537	VAL	Mainchain
1	e	537	VAL	Mainchain
1	f	537	VAL	Mainchain
1	g	537	VAL	Mainchain
1	h	537	VAL	Mainchain
1	i	537	VAL	Mainchain
1	j	537	VAL	Mainchain
1	k	537	VAL	Mainchain

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Mol	Chain	Res	Type	Group
1	l	537	VAL	Mainchain
1	m	537	VAL	Mainchain
1	n	537	VAL	Mainchain
1	o	537	VAL	Mainchain
1	p	537	VAL	Mainchain
1	q	537	VAL	Mainchain
1	r	537	VAL	Mainchain
1	s	537	VAL	Mainchain
1	t	537	VAL	Mainchain
1	u	537	VAL	Mainchain
1	v	537	VAL	Mainchain
1	w	537	VAL	Mainchain
1	x	537	VAL	Mainchain
1	y	537	VAL	Mainchain
1	z	537	VAL	Mainchain

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4054	0	3862	121	0
1	2	4054	0	3862	121	0
1	3	4054	0	3862	122	0
1	4	4054	0	3862	120	0
1	5	4054	0	3862	119	0
1	6	4054	0	3862	119	0
1	7	4054	0	3862	121	0
1	8	4054	0	3862	119	0
1	A	4054	0	3862	122	0
1	B	4054	0	3862	120	0
1	C	4054	0	3862	120	0
1	D	4054	0	3862	119	0
1	E	4054	0	3862	121	0
1	F	4054	0	3862	117	0
1	G	4054	0	3862	119	0
1	H	4054	0	3862	121	0
1	I	4054	0	3862	124	0
1	J	4054	0	3862	122	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	K	4054	0	3862	120	0
1	L	4054	0	3862	118	0
1	M	4054	0	3862	124	0
1	N	4054	0	3862	121	0
1	O	4054	0	3862	121	0
1	P	4054	0	3862	120	0
1	Q	4054	0	3862	118	0
1	R	4054	0	3862	123	0
1	S	4054	0	3862	120	0
1	T	4054	0	3862	118	0
1	U	4054	0	3862	119	0
1	V	4054	0	3862	120	0
1	W	4054	0	3862	120	0
1	X	4054	0	3862	118	0
1	Y	4054	0	3862	122	0
1	Z	4054	0	3862	120	0
1	a	4054	0	3862	124	0
1	b	4054	0	3862	121	0
1	c	4054	0	3862	124	0
1	d	4054	0	3862	119	0
1	e	4054	0	3862	124	0
1	f	4054	0	3862	121	0
1	g	4054	0	3862	121	0
1	h	4054	0	3862	122	0
1	i	4054	0	3862	118	0
1	j	4054	0	3862	120	0
1	k	4054	0	3862	120	0
1	l	4054	0	3862	121	0
1	m	4054	0	3862	120	0
1	n	4054	0	3862	122	0
1	o	4054	0	3862	119	0
1	p	4054	0	3862	119	0
1	q	4054	0	3862	127	0
1	r	4054	0	3862	119	0
1	s	4054	0	3862	122	0
1	t	4054	0	3862	120	0
1	u	4054	0	3862	124	0
1	v	4054	0	3862	122	0
1	w	4054	0	3862	121	0
1	x	4054	0	3862	117	0
1	y	4054	0	3862	117	0
1	z	4054	0	3862	118	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	243240	0	231720	5941	0

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

All (5941) 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:S:406:ARG:NH2	1:S:434:THR:O	2.05	0.90
1:r:406:ARG:NH2	1:r:434:THR:O	2.05	0.90
1:E:406:ARG:NH2	1:E:434:THR:O	2.05	0.90
1:a:406:ARG:NH2	1:a:434:THR:O	2.05	0.90
1:w:406:ARG:NH2	1:w:434:THR:O	2.05	0.90
1:3:406:ARG:NH2	1:3:434:THR:O	2.05	0.90
1:F:406:ARG:NH2	1:F:434:THR:O	2.05	0.90
1:J:406:ARG:NH2	1:J:434:THR:O	2.05	0.90
1:T:406:ARG:NH2	1:T:434:THR:O	2.05	0.90
1:m:406:ARG:NH2	1:m:434:THR:O	2.05	0.90
1:y:406:ARG:NH2	1:y:434:THR:O	2.05	0.90
1:2:406:ARG:NH2	1:2:434:THR:O	2.05	0.90
1:M:406:ARG:NH2	1:M:434:THR:O	2.05	0.90
1:h:406:ARG:NH2	1:h:434:THR:O	2.05	0.90
1:i:406:ARG:NH2	1:i:434:THR:O	2.05	0.90
1:N:406:ARG:NH2	1:N:434:THR:O	2.05	0.90
1:b:406:ARG:NH2	1:b:434:THR:O	2.05	0.89
1:f:406:ARG:NH2	1:f:434:THR:O	2.05	0.89
1:5:406:ARG:NH2	1:5:434:THR:O	2.05	0.89
1:H:406:ARG:NH2	1:H:434:THR:O	2.05	0.89
1:W:406:ARG:NH2	1:W:434:THR:O	2.05	0.89
1:o:406:ARG:NH2	1:o:434:THR:O	2.05	0.89
1:t:406:ARG:NH2	1:t:434:THR:O	2.05	0.89
1:6:406:ARG:NH2	1:6:434:THR:O	2.05	0.89
1:8:406:ARG:NH2	1:8:434:THR:O	2.05	0.89
1:Z:406:ARG:NH2	1:Z:434:THR:O	2.05	0.89
1:G:406:ARG:NH2	1:G:434:THR:O	2.05	0.89
1:P:406:ARG:NH2	1:P:434:THR:O	2.05	0.89
1:X:406:ARG:NH2	1:X:434:THR:O	2.05	0.89
1:j:406:ARG:NH2	1:j:434:THR:O	2.05	0.89
1:d:406:ARG:NH2	1:d:434:THR:O	2.05	0.89
1:q:406:ARG:NH2	1:q:434:THR:O	2.05	0.89
1:v:406:ARG:NH2	1:v:434:THR:O	2.05	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:ARG:NH2	1:A:434:THR:O	2.05	0.89
1:C:406:ARG:NH2	1:C:434:THR:O	2.05	0.89
1:Q:406:ARG:NH2	1:Q:434:THR:O	2.05	0.89
1:R:406:ARG:NH2	1:R:434:THR:O	2.05	0.89
1:V:406:ARG:NH2	1:V:434:THR:O	2.05	0.89
1:g:406:ARG:NH2	1:g:434:THR:O	2.05	0.89
1:n:406:ARG:NH2	1:n:434:THR:O	2.05	0.89
1:p:406:ARG:NH2	1:p:434:THR:O	2.05	0.89
1:x:406:ARG:NH2	1:x:434:THR:O	2.05	0.89
1:B:406:ARG:NH2	1:B:434:THR:O	2.05	0.89
1:I:406:ARG:NH2	1:I:434:THR:O	2.05	0.89
1:K:406:ARG:NH2	1:K:434:THR:O	2.05	0.88
1:O:406:ARG:NH2	1:O:434:THR:O	2.05	0.88
1:1:406:ARG:NH2	1:1:434:THR:O	2.05	0.88
1:4:406:ARG:NH2	1:4:434:THR:O	2.05	0.88
1:Y:406:ARG:NH2	1:Y:434:THR:O	2.05	0.88
1:l:406:ARG:NH2	1:l:434:THR:O	2.05	0.88
1:s:406:ARG:NH2	1:s:434:THR:O	2.05	0.88
1:u:406:ARG:NH2	1:u:434:THR:O	2.05	0.88
1:D:406:ARG:NH2	1:D:434:THR:O	2.05	0.88
1:7:406:ARG:NH2	1:7:434:THR:O	2.05	0.88
1:U:406:ARG:NH2	1:U:434:THR:O	2.05	0.88
1:c:406:ARG:NH2	1:c:434:THR:O	2.05	0.88
1:k:406:ARG:NH2	1:k:434:THR:O	2.05	0.88
1:z:406:ARG:NH2	1:z:434:THR:O	2.05	0.88
1:e:406:ARG:NH2	1:e:434:THR:O	2.05	0.88
1:L:406:ARG:NH2	1:L:434:THR:O	2.05	0.88
1:U:304:ARG:NH1	1:U:312:THR:O	2.13	0.82
1:E:304:ARG:NH1	1:E:312:THR:O	2.13	0.82
1:T:304:ARG:NH1	1:T:312:THR:O	2.13	0.82
1:X:304:ARG:NH1	1:X:312:THR:O	2.13	0.82
1:g:304:ARG:NH1	1:g:312:THR:O	2.13	0.82
1:h:304:ARG:NH1	1:h:312:THR:O	2.13	0.82
1:l:304:ARG:NH1	1:l:312:THR:O	2.13	0.82
1:m:304:ARG:NH1	1:m:312:THR:O	2.13	0.82
1:w:304:ARG:NH1	1:w:312:THR:O	2.13	0.82
1:C:304:ARG:NH1	1:C:312:THR:O	2.13	0.82
1:M:304:ARG:NH1	1:M:312:THR:O	2.13	0.82
1:O:304:ARG:NH1	1:O:312:THR:O	2.13	0.82
1:S:304:ARG:NH1	1:S:312:THR:O	2.13	0.82
1:o:304:ARG:NH1	1:o:312:THR:O	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:304:ARG:NH1	1:r:312:THR:O	2.13	0.82
1:s:304:ARG:NH1	1:s:312:THR:O	2.13	0.82
1:H:304:ARG:NH1	1:H:312:THR:O	2.13	0.82
1:5:304:ARG:NH1	1:5:312:THR:O	2.13	0.82
1:z:304:ARG:NH1	1:z:312:THR:O	2.13	0.82
1:L:304:ARG:NH1	1:L:312:THR:O	2.13	0.81
1:a:304:ARG:NH1	1:a:312:THR:O	2.13	0.81
1:3:304:ARG:NH1	1:3:312:THR:O	2.13	0.81
1:b:304:ARG:NH1	1:b:312:THR:O	2.13	0.81
1:c:304:ARG:NH1	1:c:312:THR:O	2.13	0.81
1:d:304:ARG:NH1	1:d:312:THR:O	2.13	0.81
1:4:304:ARG:NH1	1:4:312:THR:O	2.13	0.81
1:G:304:ARG:NH1	1:G:312:THR:O	2.13	0.81
1:K:304:ARG:NH1	1:K:312:THR:O	2.13	0.81
1:N:304:ARG:NH1	1:N:312:THR:O	2.13	0.81
1:Q:304:ARG:NH1	1:Q:312:THR:O	2.13	0.81
1:R:304:ARG:NH1	1:R:312:THR:O	2.13	0.81
1:V:304:ARG:NH1	1:V:312:THR:O	2.13	0.81
1:e:304:ARG:NH1	1:e:312:THR:O	2.13	0.81
1:f:304:ARG:NH1	1:f:312:THR:O	2.13	0.81
1:i:304:ARG:NH1	1:i:312:THR:O	2.13	0.81
1:n:304:ARG:NH1	1:n:312:THR:O	2.13	0.81
1:p:304:ARG:NH1	1:p:312:THR:O	2.13	0.81
1:q:304:ARG:NH1	1:q:312:THR:O	2.13	0.81
1:u:304:ARG:NH1	1:u:312:THR:O	2.13	0.81
1:x:304:ARG:NH1	1:x:312:THR:O	2.13	0.81
1:2:304:ARG:NH1	1:2:312:THR:O	2.13	0.81
1:D:304:ARG:NH1	1:D:312:THR:O	2.13	0.81
1:J:304:ARG:NH1	1:J:312:THR:O	2.13	0.81
1:k:304:ARG:NH1	1:k:312:THR:O	2.13	0.81
1:t:304:ARG:NH1	1:t:312:THR:O	2.13	0.81
1:1:304:ARG:NH1	1:1:312:THR:O	2.13	0.81
1:A:304:ARG:NH1	1:A:312:THR:O	2.13	0.81
1:B:304:ARG:NH1	1:B:312:THR:O	2.13	0.81
1:I:304:ARG:NH1	1:I:312:THR:O	2.13	0.81
1:v:304:ARG:NH1	1:v:312:THR:O	2.13	0.81
1:6:304:ARG:NH1	1:6:312:THR:O	2.13	0.81
1:F:304:ARG:NH1	1:F:312:THR:O	2.13	0.81
1:W:304:ARG:NH1	1:W:312:THR:O	2.13	0.81
1:Z:304:ARG:NH1	1:Z:312:THR:O	2.13	0.81
1:j:304:ARG:NH1	1:j:312:THR:O	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:304:ARG:NH1	1:y:312:THR:O	2.13	0.81
1:7:304:ARG:NH1	1:7:312:THR:O	2.13	0.81
1:P:304:ARG:NH1	1:P:312:THR:O	2.13	0.81
1:Y:67:GLN:HE21	1:Y:189:GLN:HB2	1.46	0.81
1:Y:304:ARG:NH1	1:Y:312:THR:O	2.13	0.81
1:8:304:ARG:NH1	1:8:312:THR:O	2.13	0.81
1:E:67:GLN:HE21	1:E:189:GLN:HB2	1.46	0.81
1:r:67:GLN:HE21	1:r:189:GLN:HB2	1.46	0.81
1:7:67:GLN:HE21	1:7:189:GLN:HB2	1.46	0.81
1:S:67:GLN:HE21	1:S:189:GLN:HB2	1.46	0.80
1:w:67:GLN:HE21	1:w:189:GLN:HB2	1.46	0.80
1:1:67:GLN:HE21	1:1:189:GLN:HB2	1.46	0.80
1:B:67:GLN:HE21	1:B:189:GLN:HB2	1.46	0.80
1:c:67:GLN:HE21	1:c:189:GLN:HB2	1.46	0.80
1:q:67:GLN:HE21	1:q:189:GLN:HB2	1.46	0.80
1:u:67:GLN:HE21	1:u:189:GLN:HB2	1.46	0.80
1:N:67:GLN:HE21	1:N:189:GLN:HB2	1.46	0.80
1:R:67:GLN:HE21	1:R:189:GLN:HB2	1.46	0.80
1:e:67:GLN:HE21	1:e:189:GLN:HB2	1.46	0.80
1:i:67:GLN:HE21	1:i:189:GLN:HB2	1.46	0.80
1:h:67:GLN:HE21	1:h:189:GLN:HB2	1.46	0.80
1:I:67:GLN:HE21	1:I:189:GLN:HB2	1.46	0.80
1:M:67:GLN:HE21	1:M:189:GLN:HB2	1.46	0.80
1:V:67:GLN:HE21	1:V:189:GLN:HB2	1.46	0.80
1:T:67:GLN:HE21	1:T:189:GLN:HB2	1.46	0.80
1:m:67:GLN:HE21	1:m:189:GLN:HB2	1.46	0.80
1:p:67:GLN:HE21	1:p:189:GLN:HB2	1.46	0.80
1:b:67:GLN:HE21	1:b:189:GLN:HB2	1.46	0.80
1:K:67:GLN:HE21	1:K:189:GLN:HB2	1.46	0.80
1:U:67:GLN:HE21	1:U:189:GLN:HB2	1.46	0.80
1:f:67:GLN:HE21	1:f:189:GLN:HB2	1.46	0.80
1:4:67:GLN:HE21	1:4:189:GLN:HB2	1.46	0.80
1:s:67:GLN:HE21	1:s:189:GLN:HB2	1.46	0.79
1:C:67:GLN:HE21	1:C:189:GLN:HB2	1.46	0.79
1:W:67:GLN:HE21	1:W:189:GLN:HB2	1.46	0.79
1:6:67:GLN:HE21	1:6:189:GLN:HB2	1.46	0.79
1:A:67:GLN:HE21	1:A:189:GLN:HB2	1.46	0.79
1:O:67:GLN:HE21	1:O:189:GLN:HB2	1.46	0.79
1:g:67:GLN:HE21	1:g:189:GLN:HB2	1.46	0.79
1:n:67:GLN:HE21	1:n:189:GLN:HB2	1.46	0.79
1:D:67:GLN:HE21	1:D:189:GLN:HB2	1.46	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:67:GLN:HE21	1:J:189:GLN:HB2	1.46	0.79
1:X:67:GLN:HE21	1:X:189:GLN:HB2	1.46	0.79
1:b:406:ARG:HH22	1:b:430:PRO:HD2	1.48	0.79
1:f:406:ARG:HH22	1:f:430:PRO:HD2	1.48	0.79
1:j:67:GLN:HE21	1:j:189:GLN:HB2	1.46	0.79
1:3:406:ARG:HH22	1:3:430:PRO:HD2	1.48	0.79
1:C:406:ARG:HH22	1:C:430:PRO:HD2	1.48	0.79
1:G:67:GLN:HE21	1:G:189:GLN:HB2	1.46	0.79
1:M:406:ARG:HH22	1:M:430:PRO:HD2	1.48	0.79
1:Z:67:GLN:HE21	1:Z:189:GLN:HB2	1.46	0.79
1:a:406:ARG:HH22	1:a:430:PRO:HD2	1.48	0.79
1:d:67:GLN:HE21	1:d:189:GLN:HB2	1.46	0.79
1:g:406:ARG:HH22	1:g:430:PRO:HD2	1.48	0.79
1:h:406:ARG:HH22	1:h:430:PRO:HD2	1.48	0.79
1:k:67:GLN:HE21	1:k:189:GLN:HB2	1.46	0.79
1:p:129:LYS:HG2	1:p:236:GLU:HG2	1.65	0.79
1:H:406:ARG:HH22	1:H:430:PRO:HD2	1.48	0.79
1:V:129:LYS:HG2	1:V:236:GLU:HG2	1.65	0.79
1:l:67:GLN:HE21	1:l:189:GLN:HB2	1.46	0.79
1:v:67:GLN:HE21	1:v:189:GLN:HB2	1.46	0.79
1:2:67:GLN:HE21	1:2:189:GLN:HB2	1.46	0.79
1:C:129:LYS:HG2	1:C:236:GLU:HG2	1.65	0.79
1:L:67:GLN:HE21	1:L:189:GLN:HB2	1.46	0.79
1:P:67:GLN:HE21	1:P:189:GLN:HB2	1.46	0.79
1:Q:67:GLN:HE21	1:Q:189:GLN:HB2	1.46	0.79
1:X:129:LYS:HG2	1:X:236:GLU:HG2	1.65	0.79
1:a:129:LYS:HG2	1:a:236:GLU:HG2	1.65	0.79
1:g:129:LYS:HG2	1:g:236:GLU:HG2	1.65	0.79
1:o:67:GLN:HE21	1:o:189:GLN:HB2	1.46	0.79
1:t:67:GLN:HE21	1:t:189:GLN:HB2	1.46	0.79
1:1:406:ARG:HH22	1:1:430:PRO:HD2	1.48	0.79
1:3:129:LYS:HG2	1:3:236:GLU:HG2	1.65	0.79
1:4:406:ARG:HH22	1:4:430:PRO:HD2	1.48	0.79
1:5:406:ARG:HH22	1:5:430:PRO:HD2	1.48	0.79
1:8:67:GLN:HE21	1:8:189:GLN:HB2	1.46	0.79
1:B:129:LYS:HG2	1:B:236:GLU:HG2	1.65	0.79
1:B:406:ARG:HH22	1:B:430:PRO:HD2	1.48	0.79
1:K:406:ARG:HH22	1:K:430:PRO:HD2	1.48	0.79
1:U:129:LYS:HG2	1:U:236:GLU:HG2	1.65	0.79
1:a:67:GLN:HE21	1:a:189:GLN:HB2	1.46	0.79
1:d:129:LYS:HG2	1:d:236:GLU:HG2	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:129:LYS:HG2	1:k:236:GLU:HG2	1.65	0.79
1:n:129:LYS:HG2	1:n:236:GLU:HG2	1.65	0.79
1:o:129:LYS:HG2	1:o:236:GLU:HG2	1.65	0.79
1:s:129:LYS:HG2	1:s:236:GLU:HG2	1.65	0.79
1:x:406:ARG:HH22	1:x:430:PRO:HD2	1.48	0.79
1:3:67:GLN:HE21	1:3:189:GLN:HB2	1.46	0.79
1:D:129:LYS:HG2	1:D:236:GLU:HG2	1.65	0.78
1:Q:406:ARG:HH22	1:Q:430:PRO:HD2	1.48	0.78
1:d:406:ARG:HH22	1:d:430:PRO:HD2	1.48	0.78
1:h:129:LYS:HG2	1:h:236:GLU:HG2	1.65	0.78
1:t:406:ARG:HH22	1:t:430:PRO:HD2	1.48	0.78
1:x:67:GLN:HE21	1:x:189:GLN:HB2	1.46	0.78
1:z:67:GLN:HE21	1:z:189:GLN:HB2	1.46	0.78
1:l:129:LYS:HG2	1:l:236:GLU:HG2	1.65	0.78
1:G:406:ARG:HH22	1:G:430:PRO:HD2	1.48	0.78
1:M:129:LYS:HG2	1:M:236:GLU:HG2	1.65	0.78
1:n:406:ARG:HH22	1:n:430:PRO:HD2	1.48	0.78
1:y:406:ARG:HH22	1:y:430:PRO:HD2	1.48	0.78
1:F:406:ARG:HH22	1:F:430:PRO:HD2	1.48	0.78
1:H:67:GLN:HE21	1:H:189:GLN:HB2	1.46	0.78
1:R:129:LYS:HG2	1:R:236:GLU:HG2	1.65	0.78
1:X:406:ARG:HH22	1:X:430:PRO:HD2	1.48	0.78
1:k:406:ARG:HH22	1:k:430:PRO:HD2	1.48	0.78
1:q:129:LYS:HG2	1:q:236:GLU:HG2	1.65	0.78
1:7:129:LYS:HG2	1:7:236:GLU:HG2	1.65	0.78
1:D:406:ARG:HH22	1:D:430:PRO:HD2	1.48	0.78
1:Y:129:LYS:HG2	1:Y:236:GLU:HG2	1.65	0.78
1:i:129:LYS:HG2	1:i:236:GLU:HG2	1.65	0.78
1:l:129:LYS:HG2	1:l:236:GLU:HG2	1.65	0.78
1:o:406:ARG:HH22	1:o:430:PRO:HD2	1.48	0.78
1:5:67:GLN:HE21	1:5:189:GLN:HB2	1.46	0.78
1:E:406:ARG:HH22	1:E:430:PRO:HD2	1.48	0.78
1:F:67:GLN:HE21	1:F:189:GLN:HB2	1.46	0.78
1:O:129:LYS:HG2	1:O:236:GLU:HG2	1.65	0.78
1:c:406:ARG:HH22	1:c:430:PRO:HD2	1.48	0.78
1:y:67:GLN:HE21	1:y:189:GLN:HB2	1.46	0.78
1:N:129:LYS:HG2	1:N:236:GLU:HG2	1.65	0.78
1:r:406:ARG:HH22	1:r:430:PRO:HD2	1.48	0.78
1:w:406:ARG:HH22	1:w:430:PRO:HD2	1.48	0.78
1:7:406:ARG:HH22	1:7:430:PRO:HD2	1.48	0.78
1:e:406:ARG:HH22	1:e:430:PRO:HD2	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:406:ARG:HH22	1:z:430:PRO:HD2	1.48	0.78
1:L:406:ARG:HH22	1:L:430:PRO:HD2	1.48	0.78
1:b:129:LYS:HG2	1:b:236:GLU:HG2	1.65	0.78
1:f:129:LYS:HG2	1:f:236:GLU:HG2	1.65	0.78
1:x:129:LYS:HG2	1:x:236:GLU:HG2	1.65	0.78
1:4:129:LYS:HG2	1:4:236:GLU:HG2	1.65	0.78
1:H:129:LYS:HG2	1:H:236:GLU:HG2	1.65	0.78
1:K:129:LYS:HG2	1:K:236:GLU:HG2	1.65	0.78
1:Q:129:LYS:HG2	1:Q:236:GLU:HG2	1.65	0.78
1:S:406:ARG:HH22	1:S:430:PRO:HD2	1.48	0.78
1:Y:406:ARG:HH22	1:Y:430:PRO:HD2	1.48	0.78
1:c:129:LYS:HG2	1:c:236:GLU:HG2	1.65	0.78
1:5:129:LYS:HG2	1:5:236:GLU:HG2	1.65	0.78
1:I:406:ARG:HH22	1:I:430:PRO:HD2	1.48	0.78
1:P:129:LYS:HG2	1:P:236:GLU:HG2	1.65	0.78
1:P:406:ARG:HH22	1:P:430:PRO:HD2	1.48	0.78
1:e:129:LYS:HG2	1:e:236:GLU:HG2	1.65	0.78
1:j:129:LYS:HG2	1:j:236:GLU:HG2	1.65	0.78
1:m:406:ARG:HH22	1:m:430:PRO:HD2	1.48	0.78
1:j:406:ARG:HH22	1:j:430:PRO:HD2	1.48	0.77
1:u:406:ARG:HH22	1:u:430:PRO:HD2	1.48	0.77
1:T:406:ARG:HH22	1:T:430:PRO:HD2	1.48	0.77
1:l:406:ARG:HH22	1:l:430:PRO:HD2	1.48	0.77
1:A:406:ARG:HH22	1:A:430:PRO:HD2	1.48	0.77
1:Z:406:ARG:HH22	1:Z:430:PRO:HD2	1.48	0.77
1:q:406:ARG:HH22	1:q:430:PRO:HD2	1.48	0.77
1:O:406:ARG:HH22	1:O:430:PRO:HD2	1.48	0.77
1:R:406:ARG:HH22	1:R:430:PRO:HD2	1.48	0.77
1:v:406:ARG:HH22	1:v:430:PRO:HD2	1.48	0.77
1:A:129:LYS:HG2	1:A:236:GLU:HG2	1.65	0.77
1:i:406:ARG:HH22	1:i:430:PRO:HD2	1.48	0.77
1:8:406:ARG:HH22	1:8:430:PRO:HD2	1.48	0.77
1:J:406:ARG:HH22	1:J:430:PRO:HD2	1.48	0.77
1:T:129:LYS:HG2	1:T:236:GLU:HG2	1.65	0.77
1:m:129:LYS:HG2	1:m:236:GLU:HG2	1.65	0.77
1:v:129:LYS:HG2	1:v:236:GLU:HG2	1.65	0.77
1:2:129:LYS:HG2	1:2:236:GLU:HG2	1.65	0.77
1:6:129:LYS:HG2	1:6:236:GLU:HG2	1.65	0.77
1:E:129:LYS:HG2	1:E:236:GLU:HG2	1.65	0.77
1:F:129:LYS:HG2	1:F:236:GLU:HG2	1.65	0.77
1:J:129:LYS:HG2	1:J:236:GLU:HG2	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:129:LYS:HG2	1:W:236:GLU:HG2	1.65	0.77
1:y:129:LYS:HG2	1:y:236:GLU:HG2	1.65	0.77
1:S:129:LYS:HG2	1:S:236:GLU:HG2	1.65	0.77
1:2:406:ARG:HH22	1:2:430:PRO:HD2	1.48	0.77
1:N:406:ARG:HH22	1:N:430:PRO:HD2	1.48	0.77
1:U:406:ARG:HH22	1:U:430:PRO:HD2	1.48	0.77
1:s:406:ARG:HH22	1:s:430:PRO:HD2	1.48	0.77
1:w:129:LYS:HG2	1:w:236:GLU:HG2	1.65	0.77
1:8:129:LYS:HG2	1:8:236:GLU:HG2	1.65	0.77
1:L:129:LYS:HG2	1:L:236:GLU:HG2	1.65	0.76
1:o:124:ARG:NH2	1:o:478:GLU:OE1	2.15	0.76
1:r:129:LYS:HG2	1:r:236:GLU:HG2	1.65	0.76
1:z:129:LYS:HG2	1:z:236:GLU:HG2	1.65	0.76
1:G:129:LYS:HG2	1:G:236:GLU:HG2	1.65	0.76
1:X:124:ARG:NH2	1:X:478:GLU:OE1	2.15	0.76
1:p:406:ARG:HH22	1:p:430:PRO:HD2	1.48	0.76
1:W:406:ARG:HH22	1:W:430:PRO:HD2	1.48	0.76
1:Z:129:LYS:HG2	1:Z:236:GLU:HG2	1.65	0.76
1:C:124:ARG:NH2	1:C:478:GLU:OE1	2.15	0.76
1:P:124:ARG:NH2	1:P:478:GLU:OE1	2.15	0.76
1:j:124:ARG:NH2	1:j:478:GLU:OE1	2.15	0.76
1:t:129:LYS:HG2	1:t:236:GLU:HG2	1.65	0.76
1:V:406:ARG:HH22	1:V:430:PRO:HD2	1.48	0.76
1:O:124:ARG:NH2	1:O:478:GLU:OE1	2.15	0.76
1:W:124:ARG:NH2	1:W:478:GLU:OE1	2.15	0.76
1:g:124:ARG:NH2	1:g:478:GLU:OE1	2.15	0.76
1:6:406:ARG:HH22	1:6:430:PRO:HD2	1.48	0.76
1:h:124:ARG:NH2	1:h:478:GLU:OE1	2.15	0.76
1:l:124:ARG:NH2	1:l:478:GLU:OE1	2.15	0.76
1:u:129:LYS:HG2	1:u:236:GLU:HG2	1.65	0.76
1:M:124:ARG:NH2	1:M:478:GLU:OE1	2.15	0.76
1:6:124:ARG:NH2	1:6:478:GLU:OE1	2.15	0.76
1:I:129:LYS:HG2	1:I:236:GLU:HG2	1.65	0.75
1:m:124:ARG:NH2	1:m:478:GLU:OE1	2.15	0.75
1:T:124:ARG:NH2	1:T:478:GLU:OE1	2.15	0.75
1:D:124:ARG:NH2	1:D:478:GLU:OE1	2.15	0.75
1:B:124:ARG:NH2	1:B:478:GLU:OE1	2.15	0.75
1:k:124:ARG:NH2	1:k:478:GLU:OE1	2.15	0.75
1:x:124:ARG:NH2	1:x:478:GLU:OE1	2.15	0.74
1:1:124:ARG:NH2	1:1:478:GLU:OE1	2.15	0.74
1:H:124:ARG:NH2	1:H:478:GLU:OE1	2.15	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:124:ARG:NH2	1:f:478:GLU:OE1	2.15	0.74
1:5:124:ARG:NH2	1:5:478:GLU:OE1	2.15	0.74
1:G:124:ARG:NH2	1:G:478:GLU:OE1	2.15	0.74
1:V:124:ARG:NH2	1:V:478:GLU:OE1	2.15	0.74
1:d:124:ARG:NH2	1:d:478:GLU:OE1	2.15	0.74
1:t:124:ARG:NH2	1:t:478:GLU:OE1	2.15	0.74
1:Y:124:ARG:NH2	1:Y:478:GLU:OE1	2.15	0.73
1:u:124:ARG:NH2	1:u:478:GLU:OE1	2.15	0.73
1:z:124:ARG:NH2	1:z:478:GLU:OE1	2.15	0.73
1:I:124:ARG:NH2	1:I:478:GLU:OE1	2.15	0.73
1:i:124:ARG:NH2	1:i:478:GLU:OE1	2.15	0.73
1:p:124:ARG:NH2	1:p:478:GLU:OE1	2.15	0.73
1:7:124:ARG:NH2	1:7:478:GLU:OE1	2.15	0.73
1:n:124:ARG:NH2	1:n:478:GLU:OE1	2.15	0.73
1:Z:124:ARG:NH2	1:Z:478:GLU:OE1	2.15	0.73
1:L:124:ARG:NH2	1:L:478:GLU:OE1	2.15	0.73
1:N:124:ARG:NH2	1:N:478:GLU:OE1	2.15	0.73
1:8:124:ARG:NH2	1:8:478:GLU:OE1	2.15	0.73
1:c:124:ARG:NH2	1:c:478:GLU:OE1	2.15	0.73
1:S:124:ARG:NH2	1:S:478:GLU:OE1	2.15	0.73
1:F:124:ARG:NH2	1:F:478:GLU:OE1	2.15	0.72
1:e:124:ARG:NH2	1:e:478:GLU:OE1	2.15	0.72
1:y:124:ARG:NH2	1:y:478:GLU:OE1	2.15	0.72
1:r:124:ARG:NH2	1:r:478:GLU:OE1	2.15	0.72
1:E:124:ARG:NH2	1:E:478:GLU:OE1	2.15	0.72
1:R:124:ARG:NH2	1:R:478:GLU:OE1	2.15	0.72
1:q:124:ARG:NH2	1:q:478:GLU:OE1	2.15	0.72
1:w:124:ARG:NH2	1:w:478:GLU:OE1	2.15	0.72
1:Y:248:ASN:HB3	1:Y:530:ILE:HB	1.72	0.72
1:7:248:ASN:HB3	1:7:530:ILE:HB	1.72	0.72
1:B:248:ASN:HB3	1:B:530:ILE:HB	1.72	0.71
1:h:248:ASN:HB3	1:h:530:ILE:HB	1.72	0.71
1:1:248:ASN:HB3	1:1:530:ILE:HB	1.72	0.71
1:M:248:ASN:HB3	1:M:530:ILE:HB	1.72	0.71
1:r:248:ASN:HB3	1:r:530:ILE:HB	1.72	0.71
1:S:248:ASN:HB3	1:S:530:ILE:HB	1.72	0.71
1:K:124:ARG:NH2	1:K:478:GLU:OE1	2.15	0.71
1:T:248:ASN:HB3	1:T:530:ILE:HB	1.72	0.71
1:Z:248:ASN:HB3	1:Z:530:ILE:HB	1.72	0.71
1:m:248:ASN:HB3	1:m:530:ILE:HB	1.72	0.71
1:4:124:ARG:NH2	1:4:478:GLU:OE1	2.15	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:124:ARG:NH2	1:J:478:GLU:OE1	2.15	0.71
1:c:248:ASN:HB3	1:c:530:ILE:HB	1.72	0.71
1:e:248:ASN:HB3	1:e:530:ILE:HB	1.72	0.71
1:2:248:ASN:HB3	1:2:530:ILE:HB	1.72	0.71
1:8:248:ASN:HB3	1:8:530:ILE:HB	1.72	0.71
1:J:248:ASN:HB3	1:J:530:ILE:HB	1.72	0.71
1:U:248:ASN:HB3	1:U:530:ILE:HB	1.72	0.71
1:s:248:ASN:HB3	1:s:530:ILE:HB	1.72	0.71
1:O:248:ASN:HB3	1:O:530:ILE:HB	1.72	0.70
1:V:79:PRO:HB2	1:V:82:ALA:HB2	1.73	0.70
1:a:248:ASN:HB3	1:a:530:ILE:HB	1.72	0.70
1:b:248:ASN:HB3	1:b:530:ILE:HB	1.72	0.70
1:f:248:ASN:HB3	1:f:530:ILE:HB	1.72	0.70
1:l:248:ASN:HB3	1:l:530:ILE:HB	1.72	0.70
1:A:248:ASN:HB3	1:A:530:ILE:HB	1.72	0.70
1:K:248:ASN:HB3	1:K:530:ILE:HB	1.72	0.70
1:Q:79:PRO:HB2	1:Q:82:ALA:HB2	1.74	0.70
1:n:79:PRO:HB2	1:n:82:ALA:HB2	1.74	0.70
1:x:79:PRO:HB2	1:x:82:ALA:HB2	1.74	0.70
1:2:124:ARG:NH2	1:2:478:GLU:OE1	2.15	0.70
1:3:248:ASN:HB3	1:3:530:ILE:HB	1.72	0.70
1:4:248:ASN:HB3	1:4:530:ILE:HB	1.72	0.70
1:I:248:ASN:HB3	1:I:530:ILE:HB	1.72	0.70
1:L:79:PRO:HB2	1:L:82:ALA:HB2	1.74	0.70
1:Z:79:PRO:HB2	1:Z:82:ALA:HB2	1.74	0.70
1:d:79:PRO:HB2	1:d:82:ALA:HB2	1.74	0.70
1:p:79:PRO:HB2	1:p:82:ALA:HB2	1.74	0.70
1:v:79:PRO:HB2	1:v:82:ALA:HB2	1.74	0.70
1:z:79:PRO:HB2	1:z:82:ALA:HB2	1.74	0.70
1:P:248:ASN:HB3	1:P:530:ILE:HB	1.72	0.70
1:X:79:PRO:HB2	1:X:82:ALA:HB2	1.74	0.70
1:Y:79:PRO:HB2	1:Y:82:ALA:HB2	1.74	0.70
1:v:248:ASN:HB3	1:v:530:ILE:HB	1.72	0.70
1:7:79:PRO:HB2	1:7:82:ALA:HB2	1.74	0.70
1:8:79:PRO:HB2	1:8:82:ALA:HB2	1.74	0.70
1:A:79:PRO:HB2	1:A:82:ALA:HB2	1.74	0.70
1:B:384:ARG:HG3	1:J:302:ALA:HB2	1.74	0.70
1:X:248:ASN:HB3	1:X:530:ILE:HB	1.72	0.70
1:o:79:PRO:HB2	1:o:82:ALA:HB2	1.74	0.70
1:p:248:ASN:HB3	1:p:530:ILE:HB	1.72	0.70
1:u:248:ASN:HB3	1:u:530:ILE:HB	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:384:ARG:HG3	1:2:302:ALA:HB2	1.74	0.70
1:B:79:PRO:HB2	1:B:82:ALA:HB2	1.74	0.70
1:D:79:PRO:HB2	1:D:82:ALA:HB2	1.74	0.70
1:D:248:ASN:HB3	1:D:530:ILE:HB	1.72	0.70
1:S:79:PRO:HB2	1:S:82:ALA:HB2	1.74	0.70
1:i:248:ASN:HB3	1:i:530:ILE:HB	1.72	0.70
1:j:248:ASN:HB3	1:j:530:ILE:HB	1.72	0.70
1:k:79:PRO:HB2	1:k:82:ALA:HB2	1.74	0.70
1:k:248:ASN:HB3	1:k:530:ILE:HB	1.72	0.70
1:q:79:PRO:HB2	1:q:82:ALA:HB2	1.74	0.70
1:l:79:PRO:HB2	1:l:82:ALA:HB2	1.74	0.70
1:C:248:ASN:HB3	1:C:530:ILE:HB	1.72	0.70
1:I:79:PRO:HB2	1:I:82:ALA:HB2	1.74	0.70
1:N:248:ASN:HB3	1:N:530:ILE:HB	1.72	0.70
1:R:79:PRO:HB2	1:R:82:ALA:HB2	1.74	0.70
1:W:79:PRO:HB2	1:W:82:ALA:HB2	1.74	0.70
1:a:79:PRO:HB2	1:a:82:ALA:HB2	1.74	0.70
1:o:248:ASN:HB3	1:o:530:ILE:HB	1.72	0.70
1:6:79:PRO:HB2	1:6:82:ALA:HB2	1.74	0.70
1:F:248:ASN:HB3	1:F:530:ILE:HB	1.72	0.70
1:H:79:PRO:HB2	1:H:82:ALA:HB2	1.74	0.70
1:R:384:ARG:HG3	1:S:302:ALA:HB2	1.74	0.70
1:V:248:ASN:HB3	1:V:530:ILE:HB	1.72	0.70
1:a:124:ARG:NH2	1:a:478:GLU:OE1	2.15	0.70
1:q:384:ARG:HG3	1:r:302:ALA:HB2	1.74	0.70
1:r:79:PRO:HB2	1:r:82:ALA:HB2	1.74	0.70
1:u:79:PRO:HB2	1:u:82:ALA:HB2	1.74	0.70
1:3:79:PRO:HB2	1:3:82:ALA:HB2	1.74	0.70
1:R:248:ASN:HB3	1:R:530:ILE:HB	1.72	0.70
1:f:79:PRO:HB2	1:f:82:ALA:HB2	1.73	0.70
1:g:248:ASN:HB3	1:g:530:ILE:HB	1.72	0.70
1:y:248:ASN:HB3	1:y:530:ILE:HB	1.72	0.70
1:5:79:PRO:HB2	1:5:82:ALA:HB2	1.74	0.70
1:L:248:ASN:HB3	1:L:530:ILE:HB	1.72	0.70
1:N:79:PRO:HB2	1:N:82:ALA:HB2	1.74	0.70
1:h:79:PRO:HB2	1:h:82:ALA:HB2	1.74	0.70
1:i:79:PRO:HB2	1:i:82:ALA:HB2	1.74	0.70
1:q:248:ASN:HB3	1:q:530:ILE:HB	1.72	0.70
1:t:79:PRO:HB2	1:t:82:ALA:HB2	1.74	0.70
1:w:79:PRO:HB2	1:w:82:ALA:HB2	1.74	0.70
1:E:79:PRO:HB2	1:E:82:ALA:HB2	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:79:PRO:HB2	1:G:82:ALA:HB2	1.74	0.69
1:M:79:PRO:HB2	1:M:82:ALA:HB2	1.74	0.69
1:b:79:PRO:HB2	1:b:82:ALA:HB2	1.74	0.69
1:x:248:ASN:HB3	1:x:530:ILE:HB	1.72	0.69
1:5:248:ASN:HB3	1:5:530:ILE:HB	1.72	0.69
1:J:79:PRO:HB2	1:J:82:ALA:HB2	1.74	0.69
1:c:79:PRO:HB2	1:c:82:ALA:HB2	1.74	0.69
1:e:79:PRO:HB2	1:e:82:ALA:HB2	1.73	0.69
1:z:248:ASN:HB3	1:z:530:ILE:HB	1.72	0.69
1:2:79:PRO:HB2	1:2:82:ALA:HB2	1.74	0.69
1:3:124:ARG:NH2	1:3:478:GLU:OE1	2.15	0.69
1:H:248:ASN:HB3	1:H:530:ILE:HB	1.72	0.69
1:K:79:PRO:HB2	1:K:82:ALA:HB2	1.74	0.69
1:Q:124:ARG:NH2	1:Q:478:GLU:OE1	2.15	0.69
1:Q:248:ASN:HB3	1:Q:530:ILE:HB	1.72	0.69
1:W:248:ASN:HB3	1:W:530:ILE:HB	1.72	0.69
1:d:248:ASN:HB3	1:d:530:ILE:HB	1.72	0.69
1:n:248:ASN:HB3	1:n:530:ILE:HB	1.72	0.69
1:q:302:ALA:HB2	1:s:384:ARG:HG3	1.72	0.69
1:6:248:ASN:HB3	1:6:530:ILE:HB	1.72	0.69
1:4:79:PRO:HB2	1:4:82:ALA:HB2	1.74	0.69
1:E:248:ASN:HB3	1:E:530:ILE:HB	1.72	0.69
1:T:79:PRO:HB2	1:T:82:ALA:HB2	1.74	0.69
1:m:79:PRO:HB2	1:m:82:ALA:HB2	1.73	0.69
1:r:384:ARG:HG3	1:s:302:ALA:HB2	1.74	0.69
1:A:384:ARG:HG3	1:G:302:ALA:HB2	1.75	0.69
1:C:79:PRO:HB2	1:C:82:ALA:HB2	1.73	0.69
1:g:79:PRO:HB2	1:g:82:ALA:HB2	1.73	0.69
1:w:248:ASN:HB3	1:w:530:ILE:HB	1.72	0.69
1:5:302:ALA:HB2	1:7:384:ARG:HG3	1.75	0.69
1:5:384:ARG:HG3	1:6:302:ALA:HB2	1.75	0.69
1:H:302:ALA:HB2	1:Y:384:ARG:HG3	1.75	0.69
1:H:384:ARG:HG3	1:W:302:ALA:HB2	1.75	0.69
1:a:384:ARG:HG3	1:8:302:ALA:HB2	1.75	0.69
1:t:384:ARG:HG3	1:u:302:ALA:HB2	1.75	0.69
1:5:420:PRO:HG2	1:7:403:ILE:HD13	1.75	0.69
1:A:302:ALA:HB2	1:I:384:ARG:HG3	1.75	0.69
1:C:384:ARG:HG3	1:b:302:ALA:HB2	1.75	0.69
1:G:384:ARG:HG3	1:I:302:ALA:HB2	1.75	0.69
1:H:420:PRO:HG2	1:Y:403:ILE:HD13	1.75	0.69
1:S:403:ILE:HD13	1:U:420:PRO:HG2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:384:ARG:HG3	1:d:302:ALA:HB2	1.75	0.69
1:Z:302:ALA:HB2	1:3:384:ARG:HG3	1.75	0.69
1:g:302:ALA:HB2	1:h:384:ARG:HG3	1.75	0.69
1:t:302:ALA:HB2	1:v:384:ARG:HG3	1.75	0.69
1:x:384:ARG:HG3	1:y:302:ALA:HB2	1.75	0.69
1:F:420:PRO:HG2	1:Q:403:ILE:HD13	1.75	0.68
1:N:403:ILE:HD13	1:P:420:PRO:HG2	1.75	0.68
1:Z:403:ILE:HD13	1:4:420:PRO:HG2	1.75	0.68
1:a:383:TYR:HB3	1:a:390:TYR:HB3	1.76	0.68
1:f:302:ALA:HB2	1:g:384:ARG:HG3	1.75	0.68
1:m:384:ARG:HG3	1:n:302:ALA:HB2	1.75	0.68
1:x:403:ILE:HD13	1:y:420:PRO:HG2	1.75	0.68
1:y:79:PRO:HB2	1:y:82:ALA:HB2	1.74	0.68
1:3:383:TYR:HB3	1:3:390:TYR:HB3	1.76	0.68
1:C:302:ALA:HB2	1:M:384:ARG:HG3	1.75	0.68
1:F:79:PRO:HB2	1:F:82:ALA:HB2	1.74	0.68
1:F:302:ALA:HB2	1:Q:384:ARG:HG3	1.75	0.68
1:G:248:ASN:HB3	1:G:530:ILE:HB	1.72	0.68
1:H:383:TYR:HB3	1:H:390:TYR:HB3	1.76	0.68
1:I:383:TYR:HB3	1:I:390:TYR:HB3	1.76	0.68
1:J:383:TYR:HB3	1:J:390:TYR:HB3	1.76	0.68
1:K:420:PRO:HG2	1:8:403:ILE:HD13	1.75	0.68
1:W:64:VAL:HG22	1:W:187:LEU:HD12	1.76	0.68
1:W:282:THR:HG21	1:Y:308:ALA:HB1	1.75	0.68
1:i:384:ARG:HG3	1:j:302:ALA:HB2	1.75	0.68
1:i:403:ILE:HD13	1:j:420:PRO:HG2	1.75	0.68
1:j:384:ARG:HG3	1:k:302:ALA:HB2	1.75	0.68
1:s:79:PRO:HB2	1:s:82:ALA:HB2	1.74	0.68
1:u:384:ARG:HG3	1:v:302:ALA:HB2	1.75	0.68
1:z:384:ARG:HG3	1:1:302:ALA:HB2	1.74	0.68
1:2:383:TYR:HB3	1:2:390:TYR:HB3	1.76	0.68
1:5:383:TYR:HB3	1:5:390:TYR:HB3	1.76	0.68
1:A:124:ARG:NH2	1:A:478:GLU:OE1	2.15	0.68
1:B:302:ALA:HB2	1:L:384:ARG:HG3	1.74	0.68
1:B:406:ARG:HH12	1:B:429:ASP:HA	1.59	0.68
1:D:302:ALA:HB2	1:P:384:ARG:HG3	1.75	0.68
1:O:403:ILE:HD13	1:m:420:PRO:HG2	1.75	0.68
1:Q:64:VAL:HG22	1:Q:187:LEU:HD12	1.76	0.68
1:T:383:TYR:HB3	1:T:390:TYR:HB3	1.76	0.68
1:U:79:PRO:HB2	1:U:82:ALA:HB2	1.74	0.68
1:U:406:ARG:HH12	1:U:429:ASP:HA	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:302:ALA:HB2	1:p:384:ARG:HG3	1.75	0.68
1:m:383:TYR:HB3	1:m:390:TYR:HB3	1.76	0.68
1:s:406:ARG:HH12	1:s:429:ASP:HA	1.59	0.68
1:u:383:TYR:HB3	1:u:390:TYR:HB3	1.76	0.68
1:v:124:ARG:NH2	1:v:478:GLU:OE1	2.15	0.68
1:w:64:VAL:HG22	1:w:187:LEU:HD12	1.76	0.68
1:x:64:VAL:HG22	1:x:187:LEU:HD12	1.76	0.68
1:1:406:ARG:HH12	1:1:429:ASP:HA	1.59	0.68
1:6:64:VAL:HG22	1:6:187:LEU:HD12	1.76	0.68
1:D:406:ARG:HH12	1:D:429:ASP:HA	1.59	0.68
1:E:64:VAL:HG22	1:E:187:LEU:HD12	1.76	0.68
1:J:64:VAL:HG22	1:J:187:LEU:HD12	1.76	0.68
1:N:384:ARG:HG3	1:P:302:ALA:HB2	1.75	0.68
1:O:302:ALA:HB2	1:n:384:ARG:HG3	1.75	0.68
1:T:420:PRO:HG2	1:l:403:ILE:HD13	1.75	0.68
1:Y:64:VAL:HG22	1:Y:187:LEU:HD12	1.76	0.68
1:g:420:PRO:HG2	1:h:403:ILE:HD13	1.75	0.68
1:k:406:ARG:HH12	1:k:429:ASP:HA	1.59	0.68
1:t:406:ARG:HH12	1:t:429:ASP:HA	1.59	0.68
1:2:64:VAL:HG22	1:2:187:LEU:HD12	1.76	0.68
1:7:64:VAL:HG22	1:7:187:LEU:HD12	1.76	0.68
1:D:403:ILE:HD13	1:N:420:PRO:HG2	1.75	0.68
1:O:79:PRO:HB2	1:O:82:ALA:HB2	1.74	0.68
1:P:79:PRO:HB2	1:P:82:ALA:HB2	1.74	0.68
1:T:403:ILE:HD13	1:d:420:PRO:HG2	1.76	0.68
1:V:384:ARG:HG3	1:e:302:ALA:HB2	1.75	0.68
1:V:406:ARG:HH12	1:V:429:ASP:HA	1.59	0.68
1:a:406:ARG:HH12	1:a:429:ASP:HA	1.59	0.68
1:d:384:ARG:HG3	1:l:302:ALA:HB2	1.75	0.68
1:j:79:PRO:HB2	1:j:82:ALA:HB2	1.74	0.68
1:m:403:ILE:HD13	1:n:420:PRO:HG2	1.76	0.68
1:p:383:TYR:HB3	1:p:390:TYR:HB3	1.76	0.68
1:r:403:ILE:HD13	1:s:420:PRO:HG2	1.76	0.68
1:t:248:ASN:HB3	1:t:530:ILE:HB	1.72	0.68
1:3:64:VAL:HG22	1:3:187:LEU:HD12	1.76	0.68
1:3:406:ARG:HH12	1:3:429:ASP:HA	1.59	0.68
1:A:403:ILE:HD13	1:G:420:PRO:HG2	1.75	0.68
1:C:420:PRO:HG2	1:M:403:ILE:HD13	1.75	0.68
1:D:64:VAL:HG22	1:D:187:LEU:HD12	1.76	0.68
1:G:406:ARG:HH12	1:G:429:ASP:HA	1.59	0.68
1:L:64:VAL:HG22	1:L:187:LEU:HD12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:406:ARG:HH12	1:L:429:ASP:HA	1.59	0.68
1:P:406:ARG:HH12	1:P:429:ASP:HA	1.59	0.68
1:V:383:TYR:HB3	1:V:390:TYR:HB3	1.76	0.68
1:W:383:TYR:HB3	1:W:390:TYR:HB3	1.76	0.68
1:Y:406:ARG:HH12	1:Y:429:ASP:HA	1.59	0.68
1:Z:383:TYR:HB3	1:Z:390:TYR:HB3	1.76	0.68
1:a:64:VAL:HG22	1:a:187:LEU:HD12	1.76	0.68
1:e:383:TYR:HB3	1:e:390:TYR:HB3	1.76	0.68
1:i:420:PRO:HG2	1:k:403:ILE:HD13	1.75	0.68
1:j:406:ARG:HH12	1:j:429:ASP:HA	1.59	0.68
1:l:79:PRO:HB2	1:l:82:ALA:HB2	1.74	0.68
1:p:406:ARG:HH12	1:p:429:ASP:HA	1.59	0.68
1:6:282:THR:HG21	1:7:308:ALA:HB1	1.76	0.68
1:7:406:ARG:HH12	1:7:429:ASP:HA	1.59	0.68
1:C:403:ILE:HD13	1:b:420:PRO:HG2	1.76	0.68
1:D:282:THR:HG21	1:N:308:ALA:HB1	1.75	0.68
1:G:282:THR:HG21	1:I:308:ALA:HB1	1.76	0.68
1:O:64:VAL:HG22	1:O:187:LEU:HD12	1.76	0.68
1:V:302:ALA:HB2	1:X:384:ARG:HG3	1.75	0.68
1:V:403:ILE:HD13	1:e:420:PRO:HG2	1.76	0.68
1:c:383:TYR:HB3	1:c:390:TYR:HB3	1.76	0.68
1:c:420:PRO:HG2	1:p:403:ILE:HD13	1.76	0.68
1:e:406:ARG:HH12	1:e:429:ASP:HA	1.59	0.68
1:l:64:VAL:HG22	1:l:187:LEU:HD12	1.76	0.68
1:r:406:ARG:HH12	1:r:429:ASP:HA	1.59	0.68
1:t:64:VAL:HG22	1:t:187:LEU:HD12	1.76	0.68
1:z:64:VAL:HG22	1:z:187:LEU:HD12	1.76	0.68
1:z:406:ARG:HH12	1:z:429:ASP:HA	1.59	0.68
1:8:64:VAL:HG22	1:8:187:LEU:HD12	1.76	0.68
1:8:383:TYR:HB3	1:8:390:TYR:HB3	1.76	0.68
1:B:420:PRO:HG2	1:L:403:ILE:HD13	1.76	0.68
1:G:64:VAL:HG22	1:G:187:LEU:HD12	1.76	0.68
1:J:406:ARG:HH12	1:J:429:ASP:HA	1.59	0.68
1:M:420:PRO:HG2	1:b:403:ILE:HD13	1.75	0.68
1:R:302:ALA:HB2	1:U:384:ARG:HG3	1.74	0.68
1:R:420:PRO:HG2	1:U:403:ILE:HD13	1.76	0.68
1:S:64:VAL:HG22	1:S:187:LEU:HD12	1.76	0.68
1:T:308:ALA:HB1	1:l:282:THR:HG21	1.76	0.68
1:Z:64:VAL:HG22	1:Z:187:LEU:HD12	1.76	0.68
1:c:406:ARG:HH12	1:c:429:ASP:HA	1.59	0.68
1:d:383:TYR:HB3	1:d:390:TYR:HB3	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:64:VAL:HG22	1:f:187:LEU:HD12	1.76	0.68
1:f:403:ILE:HD13	1:h:420:PRO:HG2	1.75	0.68
1:f:420:PRO:HG2	1:g:403:ILE:HD13	1.76	0.68
1:k:64:VAL:HG22	1:k:187:LEU:HD12	1.76	0.68
1:o:384:ARG:HG3	1:p:302:ALA:HB2	1.75	0.68
1:r:64:VAL:HG22	1:r:187:LEU:HD12	1.76	0.68
1:t:420:PRO:HG2	1:v:403:ILE:HD13	1.75	0.68
1:w:406:ARG:HH12	1:w:429:ASP:HA	1.59	0.68
1:6:383:TYR:HB3	1:6:390:TYR:HB3	1.76	0.68
1:D:308:ALA:HB1	1:P:282:THR:HG21	1.76	0.68
1:E:384:ARG:HG3	1:Q:302:ALA:HB2	1.75	0.68
1:K:282:THR:HG21	1:a:308:ALA:HB1	1.76	0.68
1:Q:406:ARG:HH12	1:Q:429:ASP:HA	1.59	0.68
1:R:403:ILE:HD13	1:S:420:PRO:HG2	1.76	0.68
1:S:406:ARG:HH12	1:S:429:ASP:HA	1.59	0.68
1:W:403:ILE:HD13	1:Y:420:PRO:HG2	1.75	0.68
1:b:64:VAL:HG22	1:b:187:LEU:HD12	1.76	0.68
1:i:302:ALA:HB2	1:k:384:ARG:HG3	1.76	0.68
1:t:282:THR:HG21	1:u:308:ALA:HB1	1.76	0.68
1:v:383:TYR:HB3	1:v:390:TYR:HB3	1.76	0.68
1:w:384:ARG:HG3	1:x:302:ALA:HB2	1.75	0.68
1:x:406:ARG:HH12	1:x:429:ASP:HA	1.59	0.68
1:z:403:ILE:HD13	1:1:420:PRO:HG2	1.76	0.68
1:2:406:ARG:HH12	1:2:429:ASP:HA	1.59	0.68
1:3:308:ALA:HB1	1:4:282:THR:HG21	1.76	0.68
1:6:403:ILE:HD13	1:7:420:PRO:HG2	1.75	0.68
1:D:384:ARG:HG3	1:N:302:ALA:HB2	1.76	0.68
1:G:403:ILE:HD13	1:I:420:PRO:HG2	1.75	0.68
1:I:64:VAL:HG22	1:I:187:LEU:HD12	1.76	0.68
1:O:282:THR:HG21	1:m:308:ALA:HB1	1.76	0.68
1:T:406:ARG:HH12	1:T:429:ASP:HA	1.59	0.68
1:W:406:ARG:HH12	1:W:429:ASP:HA	1.59	0.68
1:c:64:VAL:HG22	1:c:187:LEU:HD12	1.76	0.68
1:d:64:VAL:HG22	1:d:187:LEU:HD12	1.76	0.68
1:e:64:VAL:HG22	1:e:187:LEU:HD12	1.76	0.68
1:i:308:ALA:HB1	1:k:282:THR:HG21	1.76	0.68
1:n:64:VAL:HG22	1:n:187:LEU:HD12	1.76	0.68
1:n:383:TYR:HB3	1:n:390:TYR:HB3	1.76	0.68
1:q:403:ILE:HD13	1:r:420:PRO:HG2	1.76	0.68
1:t:403:ILE:HD13	1:u:420:PRO:HG2	1.75	0.68
1:u:64:VAL:HG22	1:u:187:LEU:HD12	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:TYR:HB3	1:A:390:TYR:HB3	1.76	0.67
1:E:406:ARG:HH12	1:E:429:ASP:HA	1.59	0.67
1:H:406:ARG:HH12	1:H:429:ASP:HA	1.59	0.67
1:L:383:TYR:HB3	1:L:390:TYR:HB3	1.76	0.67
1:S:383:TYR:HB3	1:S:390:TYR:HB3	1.76	0.67
1:X:383:TYR:HB3	1:X:390:TYR:HB3	1.76	0.67
1:c:403:ILE:HD13	1:o:420:PRO:HG2	1.75	0.67
1:i:64:VAL:HG22	1:i:187:LEU:HD12	1.76	0.67
1:j:282:THR:HG21	1:k:308:ALA:HB1	1.77	0.67
1:m:406:ARG:HH12	1:m:429:ASP:HA	1.59	0.67
1:r:383:TYR:HB3	1:r:390:TYR:HB3	1.76	0.67
1:v:64:VAL:HG22	1:v:187:LEU:HD12	1.76	0.67
1:4:383:TYR:HB3	1:4:390:TYR:HB3	1.76	0.67
1:6:406:ARG:HH12	1:6:429:ASP:HA	1.59	0.67
1:E:282:THR:HG21	1:Q:308:ALA:HB1	1.76	0.67
1:E:308:ALA:HB1	1:F:282:THR:HG21	1.77	0.67
1:K:64:VAL:HG22	1:K:187:LEU:HD12	1.76	0.67
1:K:302:ALA:HB2	1:8:384:ARG:HG3	1.76	0.67
1:K:383:TYR:HB3	1:K:390:TYR:HB3	1.76	0.67
1:N:64:VAL:HG22	1:N:187:LEU:HD12	1.76	0.67
1:P:383:TYR:HB3	1:P:390:TYR:HB3	1.76	0.67
1:S:384:ARG:HG3	1:U:302:ALA:HB2	1.75	0.67
1:Z:282:THR:HG21	1:4:308:ALA:HB1	1.76	0.67
1:Z:384:ARG:HG3	1:4:302:ALA:HB2	1.76	0.67
1:m:282:THR:HG21	1:n:308:ALA:HB1	1.76	0.67
1:o:282:THR:HG21	1:p:308:ALA:HB1	1.76	0.67
1:v:406:ARG:HH12	1:v:429:ASP:HA	1.59	0.67
1:A:64:VAL:HG22	1:A:187:LEU:HD12	1.76	0.67
1:C:282:THR:HG21	1:b:308:ALA:HB1	1.77	0.67
1:C:406:ARG:HH12	1:C:429:ASP:HA	1.59	0.67
1:E:420:PRO:HG2	1:F:403:ILE:HD13	1.75	0.67
1:K:308:ALA:HB1	1:8:282:THR:HG21	1.76	0.67
1:O:384:ARG:HG3	1:m:302:ALA:HB2	1.76	0.67
1:O:420:PRO:HG2	1:n:403:ILE:HD13	1.75	0.67
1:Q:383:TYR:HB3	1:Q:390:TYR:HB3	1.76	0.67
1:T:282:THR:HG21	1:d:308:ALA:HB1	1.76	0.67
1:T:302:ALA:HB2	1:l:384:ARG:HG3	1.76	0.67
1:X:420:PRO:HG2	1:e:403:ILE:HD13	1.75	0.67
1:f:308:ALA:HB1	1:g:282:THR:HG21	1.77	0.67
1:j:383:TYR:HB3	1:j:390:TYR:HB3	1.76	0.67
1:o:383:TYR:HB3	1:o:390:TYR:HB3	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:308:ALA:HB1	1:y:282:THR:HG21	1.77	0.67
1:z:383:TYR:HB3	1:z:390:TYR:HB3	1.76	0.67
1:5:406:ARG:HH12	1:5:429:ASP:HA	1.59	0.67
1:H:403:ILE:HD13	1:W:420:PRO:HG2	1.75	0.67
1:N:406:ARG:HH12	1:N:429:ASP:HA	1.59	0.67
1:O:383:TYR:HB3	1:O:390:TYR:HB3	1.76	0.67
1:O:406:ARG:HH12	1:O:429:ASP:HA	1.59	0.67
1:V:64:VAL:HG22	1:V:187:LEU:HD12	1.76	0.67
1:V:308:ALA:HB1	1:X:282:THR:HG21	1.76	0.67
1:W:384:ARG:HG3	1:Y:302:ALA:HB2	1.76	0.67
1:g:406:ARG:HH12	1:g:429:ASP:HA	1.59	0.67
1:p:64:VAL:HG22	1:p:187:LEU:HD12	1.76	0.67
1:q:68:ASN:ND2	1:q:71:LYS:O	2.28	0.67
1:w:282:THR:HG21	1:x:308:ALA:HB1	1.76	0.67
1:x:383:TYR:HB3	1:x:390:TYR:HB3	1.76	0.67
1:4:64:VAL:HG22	1:4:187:LEU:HD12	1.76	0.67
1:5:68:ASN:ND2	1:5:71:LYS:O	2.28	0.67
1:6:384:ARG:HG3	1:7:302:ALA:HB2	1.76	0.67
1:A:406:ARG:HH12	1:A:429:ASP:HA	1.59	0.67
1:D:420:PRO:HG2	1:P:403:ILE:HD13	1.75	0.67
1:H:68:ASN:ND2	1:H:71:LYS:O	2.28	0.67
1:R:68:ASN:ND2	1:R:71:LYS:O	2.28	0.67
1:Y:68:ASN:ND2	1:Y:71:LYS:O	2.28	0.67
1:d:403:ILE:HD13	1:l:420:PRO:HG2	1.75	0.67
1:j:403:ILE:HD13	1:k:420:PRO:HG2	1.75	0.67
1:l:383:TYR:HB3	1:l:390:TYR:HB3	1.76	0.67
1:o:403:ILE:HD13	1:p:420:PRO:HG2	1.75	0.67
1:q:64:VAL:HG22	1:q:187:LEU:HD12	1.76	0.67
1:s:124:ARG:NH2	1:s:478:GLU:OE1	2.15	0.67
1:F:406:ARG:HH12	1:F:429:ASP:HA	1.59	0.67
1:H:282:THR:HG21	1:W:308:ALA:HB1	1.76	0.67
1:I:406:ARG:HH12	1:I:429:ASP:HA	1.59	0.67
1:N:68:ASN:ND2	1:N:71:LYS:O	2.28	0.67
1:V:420:PRO:HG2	1:X:403:ILE:HD13	1.75	0.67
1:c:384:ARG:HG3	1:o:302:ALA:HB2	1.75	0.67
1:f:384:ARG:HG3	1:h:302:ALA:HB2	1.75	0.67
1:i:68:ASN:ND2	1:i:71:LYS:O	2.28	0.67
1:i:406:ARG:HH12	1:i:429:ASP:HA	1.59	0.67
1:p:68:ASN:ND2	1:p:71:LYS:O	2.28	0.67
1:t:308:ALA:HB1	1:v:282:THR:HG21	1.77	0.67
1:w:420:PRO:HG2	1:y:403:ILE:HD13	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:383:TYR:HB3	1:y:390:TYR:HB3	1.76	0.67
1:2:68:ASN:ND2	1:2:71:LYS:O	2.28	0.67
1:5:282:THR:HG21	1:6:308:ALA:HB1	1.76	0.67
1:5:403:ILE:HD13	1:6:420:PRO:HG2	1.75	0.67
1:7:68:ASN:ND2	1:7:71:LYS:O	2.28	0.67
1:A:282:THR:HG21	1:G:308:ALA:HB1	1.77	0.67
1:J:68:ASN:ND2	1:J:71:LYS:O	2.28	0.67
1:L:68:ASN:ND2	1:L:71:LYS:O	2.28	0.67
1:M:68:ASN:ND2	1:M:71:LYS:O	2.28	0.67
1:M:406:ARG:HH12	1:M:429:ASP:HA	1.59	0.67
1:O:68:ASN:ND2	1:O:71:LYS:O	2.28	0.67
1:R:64:VAL:HG22	1:R:187:LEU:HD12	1.76	0.67
1:V:68:ASN:ND2	1:V:71:LYS:O	2.28	0.67
1:X:302:ALA:HB2	1:e:384:ARG:HG3	1.75	0.67
1:l:406:ARG:HH12	1:l:429:ASP:HA	1.59	0.67
1:m:68:ASN:ND2	1:m:71:LYS:O	2.28	0.67
1:y:68:ASN:ND2	1:y:71:LYS:O	2.28	0.67
1:y:406:ARG:HH12	1:y:429:ASP:HA	1.59	0.67
1:z:282:THR:HG21	1:1:308:ALA:HB1	1.77	0.67
1:3:420:PRO:HG2	1:4:403:ILE:HD13	1.76	0.67
1:B:308:ALA:HB1	1:L:282:THR:HG21	1.77	0.67
1:F:64:VAL:HG22	1:F:187:LEU:HD12	1.76	0.67
1:F:68:ASN:ND2	1:F:71:LYS:O	2.28	0.67
1:J:384:ARG:HG3	1:L:302:ALA:HB2	1.75	0.67
1:K:384:ARG:HG3	1:a:302:ALA:HB2	1.75	0.67
1:K:403:ILE:HD13	1:a:420:PRO:HG2	1.76	0.67
1:M:302:ALA:HB2	1:b:384:ARG:HG3	1.75	0.67
1:T:68:ASN:ND2	1:T:71:LYS:O	2.28	0.67
1:V:282:THR:HG21	1:e:308:ALA:HB1	1.77	0.67
1:X:406:ARG:HH12	1:X:429:ASP:HA	1.59	0.67
1:a:68:ASN:ND2	1:a:71:LYS:O	2.28	0.67
1:h:68:ASN:ND2	1:h:71:LYS:O	2.28	0.67
1:h:406:ARG:HH12	1:h:429:ASP:HA	1.59	0.67
1:l:68:ASN:ND2	1:l:71:LYS:O	2.28	0.67
1:o:406:ARG:HH12	1:o:429:ASP:HA	1.59	0.67
1:q:420:PRO:HG2	1:s:403:ILE:HD13	1.77	0.67
1:u:406:ARG:HH12	1:u:429:ASP:HA	1.59	0.67
1:w:383:TYR:HB3	1:w:390:TYR:HB3	1.76	0.67
1:y:64:VAL:HG22	1:y:187:LEU:HD12	1.76	0.67
1:z:68:ASN:ND2	1:z:71:LYS:O	2.28	0.67
1:z:302:ALA:HB2	1:2:384:ARG:HG3	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:383:TYR:HB3	1:1:390:TYR:HB3	1.76	0.67
1:3:68:ASN:ND2	1:3:71:LYS:O	2.28	0.67
1:B:383:TYR:HB3	1:B:390:TYR:HB3	1.76	0.67
1:C:68:ASN:ND2	1:C:71:LYS:O	2.28	0.67
1:E:302:ALA:HB2	1:F:384:ARG:HG3	1.75	0.67
1:E:383:TYR:HB3	1:E:390:TYR:HB3	1.76	0.67
1:F:383:TYR:HB3	1:F:390:TYR:HB3	1.76	0.67
1:I:68:ASN:ND2	1:I:71:LYS:O	2.28	0.67
1:U:124:ARG:NH2	1:U:478:GLU:OE1	2.15	0.67
1:c:68:ASN:ND2	1:c:71:LYS:O	2.28	0.67
1:e:68:ASN:ND2	1:e:71:LYS:O	2.28	0.67
1:g:68:ASN:ND2	1:g:71:LYS:O	2.28	0.67
1:r:68:ASN:ND2	1:r:71:LYS:O	2.28	0.67
1:1:68:ASN:ND2	1:1:71:LYS:O	2.28	0.67
1:3:302:ALA:HB2	1:4:384:ARG:HG3	1.75	0.67
1:A:420:PRO:HG2	1:I:403:ILE:HD13	1.75	0.67
1:B:68:ASN:ND2	1:B:71:LYS:O	2.28	0.67
1:B:403:ILE:HD13	1:J:420:PRO:HG2	1.76	0.67
1:E:403:ILE:HD13	1:Q:420:PRO:HG2	1.75	0.67
1:S:68:ASN:ND2	1:S:71:LYS:O	2.28	0.67
1:X:68:ASN:ND2	1:X:71:LYS:O	2.28	0.67
1:c:308:ALA:HB1	1:p:282:THR:HG21	1.77	0.67
1:d:68:ASN:ND2	1:d:71:LYS:O	2.28	0.67
1:g:308:ALA:HB1	1:h:282:THR:HG21	1.76	0.67
1:n:68:ASN:ND2	1:n:71:LYS:O	2.28	0.67
1:w:403:ILE:HD13	1:x:420:PRO:HG2	1.75	0.67
1:1:403:ILE:HD13	1:2:420:PRO:HG2	1.76	0.67
1:D:383:TYR:HB3	1:D:390:TYR:HB3	1.76	0.66
1:H:64:VAL:HG22	1:H:187:LEU:HD12	1.76	0.66
1:K:406:ARG:HH12	1:K:429:ASP:HA	1.59	0.66
1:Q:68:ASN:ND2	1:Q:71:LYS:O	2.28	0.66
1:U:383:TYR:HB3	1:U:390:TYR:HB3	1.76	0.66
1:o:68:ASN:ND2	1:o:71:LYS:O	2.28	0.66
1:r:282:THR:HG21	1:s:308:ALA:HB1	1.76	0.66
1:u:68:ASN:ND2	1:u:71:LYS:O	2.28	0.66
1:v:68:ASN:ND2	1:v:71:LYS:O	2.28	0.66
1:D:68:ASN:ND2	1:D:71:LYS:O	2.28	0.66
1:T:64:VAL:HG22	1:T:187:LEU:HD12	1.76	0.66
1:Y:383:TYR:HB3	1:Y:390:TYR:HB3	1.76	0.66
1:b:406:ARG:HH12	1:b:429:ASP:HA	1.59	0.66
1:c:282:THR:HG21	1:o:308:ALA:HB1	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:406:ARG:HH12	1:f:429:ASP:HA	1.59	0.66
1:g:64:VAL:HG22	1:g:187:LEU:HD12	1.76	0.66
1:k:383:TYR:HB3	1:k:390:TYR:HB3	1.76	0.66
1:u:403:ILE:HD13	1:v:420:PRO:HG2	1.75	0.66
1:w:302:ALA:HB2	1:y:384:ARG:HG3	1.75	0.66
1:x:68:ASN:ND2	1:x:71:LYS:O	2.28	0.66
1:5:64:VAL:HG22	1:5:187:LEU:HD12	1.76	0.66
1:7:383:TYR:HB3	1:7:390:TYR:HB3	1.76	0.66
1:A:68:ASN:ND2	1:A:71:LYS:O	2.28	0.66
1:C:308:ALA:HB1	1:M:282:THR:HG21	1.76	0.66
1:S:282:THR:HG21	1:U:308:ALA:HB1	1.76	0.66
1:X:308:ALA:HB1	1:e:282:THR:HG21	1.77	0.66
1:b:383:TYR:HB3	1:b:390:TYR:HB3	1.76	0.66
1:d:282:THR:HG21	1:l:308:ALA:HB1	1.77	0.66
1:f:383:TYR:HB3	1:f:390:TYR:HB3	1.76	0.66
1:k:68:ASN:ND2	1:k:71:LYS:O	2.28	0.66
1:m:64:VAL:HG22	1:m:187:LEU:HD12	1.76	0.66
1:z:420:PRO:HG2	1:2:403:ILE:HD13	1.75	0.66
1:6:68:ASN:ND2	1:6:71:LYS:O	2.28	0.66
1:J:282:THR:HG21	1:L:308:ALA:HB1	1.76	0.66
1:R:406:ARG:HH12	1:R:429:ASP:HA	1.59	0.66
1:U:68:ASN:ND2	1:U:71:LYS:O	2.28	0.66
1:W:68:ASN:ND2	1:W:71:LYS:O	2.28	0.66
1:j:64:VAL:HG22	1:j:187:LEU:HD12	1.76	0.66
1:s:68:ASN:ND2	1:s:71:LYS:O	2.28	0.66
1:s:383:TYR:HB3	1:s:390:TYR:HB3	1.76	0.66
1:z:308:ALA:HB1	1:2:282:THR:HG21	1.76	0.66
1:1:64:VAL:HG22	1:1:187:LEU:HD12	1.76	0.66
1:4:68:ASN:ND2	1:4:71:LYS:O	2.28	0.66
1:4:406:ARG:HH12	1:4:429:ASP:HA	1.59	0.66
1:C:64:VAL:HG22	1:C:187:LEU:HD12	1.76	0.66
1:F:308:ALA:HB1	1:Q:282:THR:HG21	1.77	0.66
1:G:383:TYR:HB3	1:G:390:TYR:HB3	1.76	0.66
1:J:403:ILE:HD13	1:L:420:PRO:HG2	1.75	0.66
1:K:68:ASN:ND2	1:K:71:LYS:O	2.28	0.66
1:O:308:ALA:HB1	1:n:282:THR:HG21	1.77	0.66
1:P:64:VAL:HG22	1:P:187:LEU:HD12	1.76	0.66
1:b:124:ARG:NH2	1:b:478:GLU:OE1	2.15	0.66
1:w:68:ASN:ND2	1:w:71:LYS:O	2.28	0.66
1:E:68:ASN:ND2	1:E:71:LYS:O	2.28	0.66
1:q:383:TYR:HB3	1:q:390:TYR:HB3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:406:ARG:HH12	1:q:429:ASP:HA	1.59	0.66
1:t:383:TYR:HB3	1:t:390:TYR:HB3	1.76	0.66
1:8:406:ARG:HH12	1:8:429:ASP:HA	1.59	0.66
1:B:64:VAL:HG22	1:B:187:LEU:HD12	1.76	0.66
1:C:383:TYR:HB3	1:C:390:TYR:HB3	1.76	0.66
1:E:127:HIS:HD2	1:E:238:THR:HG22	1.61	0.66
1:G:68:ASN:ND2	1:G:71:LYS:O	2.28	0.66
1:R:383:TYR:HB3	1:R:390:TYR:HB3	1.76	0.66
1:Z:406:ARG:HH12	1:Z:429:ASP:HA	1.59	0.66
1:d:406:ARG:HH12	1:d:429:ASP:HA	1.59	0.66
1:g:383:TYR:HB3	1:g:390:TYR:HB3	1.76	0.66
1:n:406:ARG:HH12	1:n:429:ASP:HA	1.59	0.66
1:w:127:HIS:HD2	1:w:238:THR:HG22	1.61	0.66
1:L:127:HIS:HD2	1:L:238:THR:HG22	1.61	0.66
1:N:127:HIS:HD2	1:N:238:THR:HG22	1.61	0.66
1:U:127:HIS:HD2	1:U:238:THR:HG22	1.61	0.66
1:Z:420:PRO:HG2	1:3:403:ILE:HD13	1.75	0.66
1:d:127:HIS:HD2	1:d:238:THR:HG22	1.61	0.66
1:h:64:VAL:HG22	1:h:187:LEU:HD12	1.76	0.66
1:i:282:THR:HG21	1:j:308:ALA:HB1	1.77	0.66
1:k:127:HIS:HD2	1:k:238:THR:HG22	1.61	0.66
1:n:127:HIS:HD2	1:n:238:THR:HG22	1.61	0.66
1:s:127:HIS:HD2	1:s:238:THR:HG22	1.61	0.66
1:t:68:ASN:ND2	1:t:71:LYS:O	2.28	0.66
1:x:282:THR:HG21	1:y:308:ALA:HB1	1.77	0.66
1:z:127:HIS:HD2	1:z:238:THR:HG22	1.61	0.66
1:D:127:HIS:HD2	1:D:238:THR:HG22	1.61	0.66
1:H:308:ALA:HB1	1:Y:282:THR:HG21	1.77	0.66
1:M:64:VAL:HG22	1:M:187:LEU:HD12	1.76	0.66
1:M:308:ALA:HB1	1:b:282:THR:HG21	1.77	0.66
1:X:64:VAL:HG22	1:X:187:LEU:HD12	1.76	0.66
1:Z:68:ASN:ND2	1:Z:71:LYS:O	2.28	0.66
1:c:127:HIS:HD2	1:c:238:THR:HG22	1.61	0.66
1:M:383:TYR:HB3	1:M:390:TYR:HB3	1.76	0.66
1:N:282:THR:HG21	1:P:308:ALA:HB1	1.77	0.66
1:P:68:ASN:ND2	1:P:71:LYS:O	2.28	0.66
1:R:308:ALA:HB1	1:U:282:THR:HG21	1.77	0.66
1:a:282:THR:HG21	1:8:308:ALA:HB1	1.77	0.66
1:a:403:ILE:HD13	1:8:420:PRO:HG2	1.75	0.66
1:b:68:ASN:ND2	1:b:71:LYS:O	2.28	0.66
1:e:127:HIS:HD2	1:e:238:THR:HG22	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:68:ASN:ND2	1:f:71:LYS:O	2.28	0.66
1:f:282:THR:HG21	1:h:308:ALA:HB1	1.77	0.66
1:i:127:HIS:HD2	1:i:238:THR:HG22	1.61	0.66
1:j:68:ASN:ND2	1:j:71:LYS:O	2.28	0.66
1:o:64:VAL:HG22	1:o:187:LEU:HD12	1.76	0.66
1:8:68:ASN:ND2	1:8:71:LYS:O	2.28	0.66
1:N:383:TYR:HB3	1:N:390:TYR:HB3	1.76	0.65
1:T:127:HIS:HD2	1:T:238:THR:HG22	1.61	0.65
1:U:64:VAL:HG22	1:U:187:LEU:HD12	1.76	0.65
1:Z:127:HIS:HD2	1:Z:238:THR:HG22	1.61	0.65
1:g:127:HIS:HD2	1:g:238:THR:HG22	1.61	0.65
1:i:383:TYR:HB3	1:i:390:TYR:HB3	1.76	0.65
1:y:127:HIS:HD2	1:y:238:THR:HG22	1.61	0.65
1:5:127:HIS:HD2	1:5:238:THR:HG22	1.61	0.65
1:C:127:HIS:HD2	1:C:238:THR:HG22	1.61	0.65
1:F:127:HIS:HD2	1:F:238:THR:HG22	1.61	0.65
1:H:127:HIS:HD2	1:H:238:THR:HG22	1.61	0.65
1:m:127:HIS:HD2	1:m:238:THR:HG22	1.61	0.65
1:x:127:HIS:HD2	1:x:238:THR:HG22	1.61	0.65
1:5:308:ALA:HB1	1:7:282:THR:HG21	1.77	0.65
1:8:127:HIS:HD2	1:8:238:THR:HG22	1.61	0.65
1:Q:127:HIS:HD2	1:Q:238:THR:HG22	1.61	0.65
1:Z:308:ALA:HB1	1:3:282:THR:HG21	1.77	0.65
1:h:383:TYR:HB3	1:h:390:TYR:HB3	1.76	0.65
1:s:64:VAL:HG22	1:s:187:LEU:HD12	1.76	0.65
1:G:127:HIS:HD2	1:G:238:THR:HG22	1.61	0.65
1:J:127:HIS:HD2	1:J:238:THR:HG22	1.61	0.65
1:u:282:THR:HG21	1:v:308:ALA:HB1	1.77	0.65
1:Y:127:HIS:HD2	1:Y:238:THR:HG22	1.61	0.65
1:q:127:HIS:HD2	1:q:238:THR:HG22	1.61	0.65
1:t:127:HIS:HD2	1:t:238:THR:HG22	1.61	0.65
1:R:127:HIS:HD2	1:R:238:THR:HG22	1.61	0.65
1:2:127:HIS:HD2	1:2:238:THR:HG22	1.61	0.65
1:A:127:HIS:HD2	1:A:238:THR:HG22	1.61	0.65
1:A:308:ALA:HB1	1:I:282:THR:HG21	1.77	0.65
1:7:127:HIS:HD2	1:7:238:THR:HG22	1.61	0.65
1:Q:490:GLU:HG3	1:R:109:GLN:HE22	1.62	0.65
1:V:302:ALA:O	1:V:351:TYR:OH	2.15	0.65
1:W:127:HIS:HD2	1:W:238:THR:HG22	1.61	0.65
1:q:109:GLN:HE22	1:x:490:GLU:HG3	1.62	0.65
1:q:490:GLU:HG3	1:x:109:GLN:HE22	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:127:HIS:HD2	1:1:238:THR:HG22	1.61	0.65
1:3:302:ALA:O	1:3:351:TYR:OH	2.15	0.65
1:7:490:GLU:HG3	1:8:109:GLN:HE22	1.62	0.65
1:B:127:HIS:HD2	1:B:238:THR:HG22	1.61	0.65
1:Q:109:GLN:HE22	1:R:490:GLU:HG3	1.62	0.65
1:Y:490:GLU:HG3	1:Z:109:GLN:HE22	1.62	0.65
1:a:302:ALA:O	1:a:351:TYR:OH	2.15	0.65
1:v:127:HIS:HD2	1:v:238:THR:HG22	1.61	0.65
1:N:490:GLU:HG3	1:O:109:GLN:HE22	1.62	0.65
1:a:127:HIS:HD2	1:a:238:THR:HG22	1.61	0.65
1:g:302:ALA:O	1:g:351:TYR:OH	2.15	0.65
1:j:127:HIS:HD2	1:j:238:THR:HG22	1.61	0.65
1:u:127:HIS:HD2	1:u:238:THR:HG22	1.61	0.65
1:3:127:HIS:HD2	1:3:238:THR:HG22	1.61	0.65
1:6:127:HIS:HD2	1:6:238:THR:HG22	1.61	0.65
1:C:302:ALA:O	1:C:351:TYR:OH	2.15	0.64
1:I:127:HIS:HD2	1:I:238:THR:HG22	1.61	0.64
1:M:302:ALA:O	1:M:351:TYR:OH	2.15	0.64
1:f:127:HIS:HD2	1:f:238:THR:HG22	1.61	0.64
1:t:302:ALA:O	1:t:351:TYR:OH	2.15	0.64
1:B:282:THR:HG21	1:J:308:ALA:HB1	1.80	0.64
1:G:302:ALA:O	1:G:351:TYR:OH	2.15	0.64
1:P:127:HIS:HD2	1:P:238:THR:HG22	1.61	0.64
1:d:109:GLN:HE22	1:n:490:GLU:HG3	1.63	0.64
1:d:490:GLU:HG3	1:n:109:GLN:HE22	1.62	0.64
1:e:302:ALA:O	1:e:351:TYR:OH	2.15	0.64
1:h:302:ALA:O	1:h:351:TYR:OH	2.15	0.64
1:i:490:GLU:HG3	1:l:109:GLN:HE22	1.62	0.64
1:1:282:THR:HG21	1:2:308:ALA:HB1	1.80	0.64
1:E:109:GLN:HE22	1:P:490:GLU:HG3	1.62	0.64
1:S:109:GLN:HE22	1:T:490:GLU:HG3	1.63	0.64
1:W:109:GLN:HE22	1:X:490:GLU:HG3	1.63	0.64
1:a:109:GLN:HE22	1:3:490:GLU:HG3	1.63	0.64
1:a:490:GLU:HG3	1:3:109:GLN:HE22	1.63	0.64
1:b:127:HIS:HD2	1:b:238:THR:HG22	1.61	0.64
1:c:302:ALA:O	1:c:351:TYR:OH	2.15	0.64
1:l:302:ALA:O	1:l:351:TYR:OH	2.15	0.64
1:u:109:GLN:HE22	1:1:490:GLU:HG3	1.62	0.64
1:A:490:GLU:HG3	1:F:109:GLN:HE22	1.62	0.64
1:B:490:GLU:HG3	1:I:109:GLN:HE22	1.62	0.64
1:O:127:HIS:HD2	1:O:238:THR:HG22	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:127:HIS:HD2	1:S:238:THR:HG22	1.61	0.64
1:W:302:ALA:O	1:W:351:TYR:OH	2.15	0.64
1:m:490:GLU:HG3	1:r:109:GLN:HE22	1.63	0.64
1:o:490:GLU:HG3	1:6:109:GLN:HE22	1.63	0.64
1:v:490:GLU:HG3	1:y:109:GLN:HE22	1.62	0.64
1:y:302:ALA:O	1:y:351:TYR:OH	2.15	0.64
1:G:109:GLN:HE22	1:H:490:GLU:HG3	1.62	0.64
1:M:127:HIS:HD2	1:M:238:THR:HG22	1.61	0.64
1:O:302:ALA:O	1:O:351:TYR:OH	2.15	0.64
1:V:127:HIS:HD2	1:V:238:THR:HG22	1.61	0.64
1:j:490:GLU:HG3	1:w:109:GLN:HE22	1.62	0.64
1:t:109:GLN:HE22	1:5:490:GLU:HG3	1.62	0.64
1:u:490:GLU:HG3	1:1:109:GLN:HE22	1.62	0.64
1:B:109:GLN:HE22	1:I:490:GLU:HG3	1.62	0.64
1:G:490:GLU:HG3	1:H:109:GLN:HE22	1.63	0.64
1:h:127:HIS:HD2	1:h:238:THR:HG22	1.61	0.64
1:l:127:HIS:HD2	1:l:238:THR:HG22	1.61	0.64
1:p:127:HIS:HD2	1:p:238:THR:HG22	1.61	0.64
1:7:302:ALA:O	1:7:351:TYR:OH	2.15	0.64
1:A:57:LYS:HG2	1:A:474:GLU:HG2	1.80	0.64
1:F:302:ALA:O	1:F:351:TYR:OH	2.15	0.64
1:G:57:LYS:HG2	1:G:474:GLU:HG2	1.80	0.64
1:S:490:GLU:HG3	1:T:109:GLN:HE22	1.63	0.64
1:W:490:GLU:HG3	1:X:109:GLN:HE22	1.63	0.64
1:o:127:HIS:HD2	1:o:238:THR:HG22	1.61	0.64
1:t:57:LYS:HG2	1:t:474:GLU:HG2	1.80	0.64
1:t:490:GLU:HG3	1:5:109:GLN:HE22	1.63	0.64
1:v:57:LYS:HG2	1:v:474:GLU:HG2	1.80	0.64
1:K:127:HIS:HD2	1:K:238:THR:HG22	1.61	0.64
1:N:109:GLN:HE22	1:O:490:GLU:HG3	1.63	0.64
1:Q:57:LYS:HG2	1:Q:474:GLU:HG2	1.80	0.64
1:R:282:THR:HG21	1:S:308:ALA:HB1	1.80	0.64
1:X:127:HIS:HD2	1:X:238:THR:HG22	1.61	0.64
1:e:109:GLN:HE22	1:f:490:GLU:HG3	1.62	0.64
1:i:109:GLN:HE22	1:l:490:GLU:HG3	1.63	0.64
1:m:109:GLN:HE22	1:r:490:GLU:HG3	1.63	0.64
1:q:282:THR:HG21	1:r:308:ALA:HB1	1.80	0.64
1:r:127:HIS:HD2	1:r:238:THR:HG22	1.61	0.64
1:x:57:LYS:HG2	1:x:474:GLU:HG2	1.80	0.64
1:C:490:GLU:HG3	1:L:109:GLN:HE22	1.63	0.64
1:o:109:GLN:HE22	1:6:490:GLU:HG3	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:57:LYS:HG2	1:C:474:GLU:HG2	1.80	0.64
1:R:57:LYS:HG2	1:R:474:GLU:HG2	1.80	0.64
1:g:490:GLU:HG3	1:z:109:GLN:HE22	1.63	0.64
1:2:57:LYS:HG2	1:2:474:GLU:HG2	1.80	0.64
1:S:57:LYS:HG2	1:S:474:GLU:HG2	1.80	0.63
1:b:109:GLN:HE22	1:c:490:GLU:HG3	1.63	0.63
1:b:490:GLU:HG3	1:c:109:GLN:HE22	1.63	0.63
1:g:57:LYS:HG2	1:g:474:GLU:HG2	1.80	0.63
1:p:57:LYS:HG2	1:p:474:GLU:HG2	1.80	0.63
1:p:109:GLN:HE22	1:s:490:GLU:HG3	1.62	0.63
1:q:57:LYS:HG2	1:q:474:GLU:HG2	1.80	0.63
1:r:57:LYS:HG2	1:r:474:GLU:HG2	1.80	0.63
1:v:109:GLN:HE22	1:y:490:GLU:HG3	1.62	0.63
1:4:127:HIS:HD2	1:4:238:THR:HG22	1.61	0.63
1:J:57:LYS:HG2	1:J:474:GLU:HG2	1.80	0.63
1:J:302:ALA:O	1:J:351:TYR:OH	2.15	0.63
1:V:57:LYS:HG2	1:V:474:GLU:HG2	1.80	0.63
1:m:57:LYS:HG2	1:m:474:GLU:HG2	1.80	0.63
1:n:57:LYS:HG2	1:n:474:GLU:HG2	1.80	0.63
1:A:109:GLN:HE22	1:F:490:GLU:HG3	1.62	0.63
1:P:57:LYS:HG2	1:P:474:GLU:HG2	1.80	0.63
1:Q:302:ALA:O	1:Q:351:TYR:OH	2.15	0.63
1:T:57:LYS:HG2	1:T:474:GLU:HG2	1.80	0.63
1:d:57:LYS:HG2	1:d:474:GLU:HG2	1.80	0.63
1:e:490:GLU:HG3	1:f:109:GLN:HE22	1.63	0.63
1:x:302:ALA:O	1:x:351:TYR:OH	2.15	0.63
1:B:374:LEU:HD22	1:J:212:ILE:HD11	1.81	0.63
1:D:490:GLU:HG3	1:M:109:GLN:HE22	1.63	0.63
1:O:57:LYS:HG2	1:O:474:GLU:HG2	1.80	0.63
1:X:302:ALA:O	1:X:351:TYR:OH	2.15	0.63
1:i:374:LEU:HD22	1:j:212:ILE:HD11	1.81	0.63
1:o:302:ALA:O	1:o:351:TYR:OH	2.15	0.63
1:5:57:LYS:HG2	1:5:474:GLU:HG2	1.80	0.63
1:E:57:LYS:HG2	1:E:474:GLU:HG2	1.80	0.63
1:H:57:LYS:HG2	1:H:474:GLU:HG2	1.80	0.63
1:N:374:LEU:HD22	1:P:212:ILE:HD11	1.81	0.63
1:X:57:LYS:HG2	1:X:474:GLU:HG2	1.80	0.63
1:j:57:LYS:HG2	1:j:474:GLU:HG2	1.80	0.63
1:j:302:ALA:O	1:j:351:TYR:OH	2.15	0.63
1:l:57:LYS:HG2	1:l:474:GLU:HG2	1.80	0.63
1:1:374:LEU:HD22	1:2:212:ILE:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:109:GLN:HE22	1:4:490:GLU:HG3	1.63	0.63
1:J:490:GLU:HG3	1:K:109:GLN:HE22	1.63	0.63
1:P:302:ALA:O	1:P:351:TYR:OH	2.15	0.63
1:Y:109:GLN:HE22	1:Z:490:GLU:HG3	1.63	0.63
1:o:57:LYS:HG2	1:o:474:GLU:HG2	1.80	0.63
1:7:109:GLN:HE22	1:8:490:GLU:HG3	1.63	0.63
1:F:57:LYS:HG2	1:F:474:GLU:HG2	1.80	0.63
1:w:57:LYS:HG2	1:w:474:GLU:HG2	1.80	0.63
1:8:302:ALA:O	1:8:351:TYR:OH	2.15	0.63
1:B:57:LYS:HG2	1:B:474:GLU:HG2	1.80	0.63
1:J:109:GLN:HE22	1:K:490:GLU:HG3	1.63	0.63
1:L:57:LYS:HG2	1:L:474:GLU:HG2	1.80	0.63
1:N:57:LYS:HG2	1:N:474:GLU:HG2	1.80	0.63
1:Y:57:LYS:HG2	1:Y:474:GLU:HG2	1.80	0.63
1:Y:302:ALA:O	1:Y:351:TYR:OH	2.15	0.63
1:Z:302:ALA:O	1:Z:351:TYR:OH	2.15	0.63
1:h:109:GLN:HE22	1:k:490:GLU:HG3	1.63	0.63
1:i:57:LYS:HG2	1:i:474:GLU:HG2	1.80	0.63
1:y:57:LYS:HG2	1:y:474:GLU:HG2	1.80	0.63
1:z:57:LYS:HG2	1:z:474:GLU:HG2	1.80	0.63
1:1:57:LYS:HG2	1:1:474:GLU:HG2	1.80	0.63
1:2:490:GLU:HG3	1:4:109:GLN:HE22	1.63	0.63
1:7:57:LYS:HG2	1:7:474:GLU:HG2	1.80	0.63
1:U:302:ALA:O	1:U:351:TYR:OH	2.15	0.62
1:W:57:LYS:HG2	1:W:474:GLU:HG2	1.80	0.62
1:s:302:ALA:O	1:s:351:TYR:OH	2.15	0.62
1:E:490:GLU:HG3	1:P:109:GLN:HE22	1.63	0.62
1:b:57:LYS:HG2	1:b:474:GLU:HG2	1.80	0.62
1:f:57:LYS:HG2	1:f:474:GLU:HG2	1.80	0.62
1:f:212:ILE:HD11	1:g:374:LEU:HD22	1.81	0.62
1:h:490:GLU:HG3	1:k:109:GLN:HE22	1.63	0.62
1:m:374:LEU:HD22	1:n:212:ILE:HD11	1.81	0.62
1:6:57:LYS:HG2	1:6:474:GLU:HG2	1.80	0.62
1:C:374:LEU:HD22	1:b:212:ILE:HD11	1.81	0.62
1:T:374:LEU:HD22	1:d:212:ILE:HD11	1.81	0.62
1:K:57:LYS:HG2	1:K:474:GLU:HG2	1.80	0.62
1:U:109:GLN:HE22	1:V:490:GLU:HG3	1.63	0.62
1:U:490:GLU:HG3	1:V:109:GLN:HE22	1.63	0.62
1:j:109:GLN:HE22	1:w:490:GLU:HG3	1.63	0.62
1:4:57:LYS:HG2	1:4:474:GLU:HG2	1.80	0.62
1:A:87:GLN:HE22	1:I:257:LEU:HD11	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:109:GLN:HE22	1:M:490:GLU:HG3	1.63	0.62
1:E:212:ILE:HD11	1:F:374:LEU:HD22	1.81	0.62
1:K:212:ILE:HD11	1:8:374:LEU:HD22	1.81	0.62
1:Z:374:LEU:HD22	1:4:212:ILE:HD11	1.81	0.62
1:s:57:LYS:HG2	1:s:474:GLU:HG2	1.80	0.62
1:u:57:LYS:HG2	1:u:474:GLU:HG2	1.80	0.62
1:I:57:LYS:HG2	1:I:474:GLU:HG2	1.80	0.62
1:M:212:ILE:HD11	1:b:374:LEU:HD22	1.81	0.62
1:R:257:LEU:HD11	1:S:87:GLN:HE22	1.65	0.62
1:U:57:LYS:HG2	1:U:474:GLU:HG2	1.80	0.62
1:a:57:LYS:HG2	1:a:474:GLU:HG2	1.80	0.62
1:c:212:ILE:HD11	1:p:374:LEU:HD22	1.81	0.62
1:q:212:ILE:HD11	1:s:374:LEU:HD22	1.80	0.62
1:u:257:LEU:HD11	1:v:87:GLN:HE22	1.65	0.62
1:w:212:ILE:HD11	1:y:374:LEU:HD22	1.81	0.62
1:E:374:LEU:HD22	1:Q:212:ILE:HD11	1.81	0.62
1:S:374:LEU:HD22	1:U:212:ILE:HD11	1.81	0.62
1:V:374:LEU:HD22	1:e:212:ILE:HD11	1.81	0.62
1:f:374:LEU:HD22	1:h:212:ILE:HD11	1.81	0.62
1:k:57:LYS:HG2	1:k:474:GLU:HG2	1.80	0.62
1:r:374:LEU:HD22	1:s:212:ILE:HD11	1.81	0.62
1:w:374:LEU:HD22	1:x:212:ILE:HD11	1.81	0.62
1:3:57:LYS:HG2	1:3:474:GLU:HG2	1.80	0.62
1:C:109:GLN:HE22	1:L:490:GLU:HG3	1.63	0.62
1:M:57:LYS:HG2	1:M:474:GLU:HG2	1.80	0.62
1:q:257:LEU:HD11	1:r:87:GLN:HE22	1.65	0.62
1:D:57:LYS:HG2	1:D:474:GLU:HG2	1.80	0.62
1:F:212:ILE:HD11	1:Q:374:LEU:HD22	1.81	0.62
1:Z:57:LYS:HG2	1:Z:474:GLU:HG2	1.80	0.62
1:f:257:LEU:HD11	1:h:87:GLN:HE22	1.65	0.62
1:t:87:GLN:HE22	1:v:257:LEU:HD11	1.65	0.62
1:A:257:LEU:HD11	1:G:87:GLN:HE22	1.65	0.62
1:C:257:LEU:HD11	1:b:87:GLN:HE22	1.65	0.62
1:M:87:GLN:HE22	1:b:257:LEU:HD11	1.65	0.62
1:T:87:GLN:HE22	1:l:257:LEU:HD11	1.65	0.62
1:b:302:ALA:O	1:b:351:TYR:OH	2.15	0.62
1:e:57:LYS:HG2	1:e:474:GLU:HG2	1.80	0.62
1:f:87:GLN:HE22	1:g:257:LEU:HD11	1.65	0.62
1:g:109:GLN:HE22	1:z:490:GLU:HG3	1.63	0.62
1:h:57:LYS:HG2	1:h:474:GLU:HG2	1.80	0.62
1:w:302:ALA:O	1:w:351:TYR:OH	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:374:LEU:HD22	1:y:212:ILE:HD11	1.81	0.62
1:1:257:LEU:HD11	1:2:87:GLN:HE22	1.65	0.62
1:8:57:LYS:HG2	1:8:474:GLU:HG2	1.80	0.62
1:A:374:LEU:HD22	1:G:212:ILE:HD11	1.81	0.61
1:H:212:ILE:HD11	1:Y:374:LEU:HD22	1.81	0.61
1:K:87:GLN:HE22	1:8:257:LEU:HD11	1.65	0.61
1:O:257:LEU:HD11	1:m:87:GLN:HE22	1.65	0.61
1:S:302:ALA:O	1:S:351:TYR:OH	2.15	0.61
1:r:206:ASN:HD21	1:r:324:THR:HA	1.65	0.61
1:t:212:ILE:HD11	1:v:374:LEU:HD22	1.81	0.61
1:z:87:GLN:HE22	1:2:257:LEU:HD11	1.65	0.61
1:C:406:ARG:NH1	1:C:429:ASP:OD1	2.34	0.61
1:D:257:LEU:HD11	1:N:87:GLN:HE22	1.65	0.61
1:E:302:ALA:O	1:E:351:TYR:OH	2.15	0.61
1:J:406:ARG:NH1	1:J:429:ASP:OD1	2.34	0.61
1:O:374:LEU:HD22	1:m:212:ILE:HD11	1.81	0.61
1:S:206:ASN:HD21	1:S:324:THR:HA	1.65	0.61
1:T:212:ILE:HD11	1:l:374:LEU:HD22	1.81	0.61
1:X:212:ILE:HD11	1:e:374:LEU:HD22	1.81	0.61
1:Z:257:LEU:HD11	1:4:87:GLN:HE22	1.65	0.61
1:c:57:LYS:HG2	1:c:474:GLU:HG2	1.80	0.61
1:c:374:LEU:HD22	1:o:212:ILE:HD11	1.81	0.61
1:f:302:ALA:O	1:f:351:TYR:OH	2.15	0.61
1:g:406:ARG:NH1	1:g:429:ASP:OD1	2.34	0.61
1:r:257:LEU:HD11	1:s:87:GLN:HE22	1.65	0.61
1:r:302:ALA:O	1:r:351:TYR:OH	2.15	0.61
1:x:257:LEU:HD11	1:y:87:GLN:HE22	1.65	0.61
1:2:406:ARG:NH1	1:2:429:ASP:OD1	2.34	0.61
1:5:212:ILE:HD11	1:7:374:LEU:HD22	1.81	0.61
1:A:406:ARG:NH1	1:A:429:ASP:OD1	2.34	0.61
1:B:257:LEU:HD11	1:J:87:GLN:HE22	1.65	0.61
1:F:87:GLN:HE22	1:Q:257:LEU:HD11	1.65	0.61
1:H:257:LEU:HD11	1:W:87:GLN:HE22	1.65	0.61
1:H:374:LEU:HD22	1:W:212:ILE:HD11	1.81	0.61
1:J:257:LEU:HD11	1:L:87:GLN:HE22	1.65	0.61
1:K:206:ASN:HD21	1:K:324:THR:HA	1.65	0.61
1:i:87:GLN:HE22	1:k:257:LEU:HD11	1.65	0.61
1:n:302:ALA:O	1:n:351:TYR:OH	2.15	0.61
1:q:308:ALA:HB1	1:s:282:THR:HG21	1.81	0.61
1:q:374:LEU:HD22	1:r:212:ILE:HD11	1.80	0.61
1:v:406:ARG:NH1	1:v:429:ASP:OD1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:206:ASN:HD21	1:4:324:THR:HA	1.65	0.61
1:5:257:LEU:HD11	1:6:87:GLN:HE22	1.65	0.61
1:7:406:ARG:NH1	1:7:429:ASP:OD1	2.34	0.61
1:H:302:ALA:O	1:H:351:TYR:OH	2.15	0.61
1:Y:406:ARG:NH1	1:Y:429:ASP:OD1	2.34	0.61
1:w:406:ARG:NH1	1:w:429:ASP:OD1	2.34	0.61
1:2:206:ASN:HD21	1:2:324:THR:HA	1.65	0.61
1:5:374:LEU:HD22	1:6:212:ILE:HD11	1.81	0.61
1:E:406:ARG:NH1	1:E:429:ASP:OD1	2.34	0.61
1:H:87:GLN:HE22	1:Y:257:LEU:HD11	1.65	0.61
1:R:374:LEU:HD22	1:S:212:ILE:HD11	1.81	0.61
1:U:406:ARG:NH1	1:U:429:ASP:OD1	2.34	0.61
1:c:206:ASN:HD21	1:c:324:THR:HA	1.66	0.61
1:e:206:ASN:HD21	1:e:324:THR:HA	1.66	0.61
1:i:406:ARG:NH1	1:i:429:ASP:OD1	2.34	0.61
1:m:206:ASN:HD21	1:m:324:THR:HA	1.65	0.61
1:m:257:LEU:HD11	1:n:87:GLN:HE22	1.65	0.61
1:m:302:ALA:O	1:m:351:TYR:OH	2.15	0.61
1:n:206:ASN:HD21	1:n:324:THR:HA	1.65	0.61
1:p:206:ASN:HD21	1:p:324:THR:HA	1.65	0.61
1:u:206:ASN:HD21	1:u:324:THR:HA	1.66	0.61
1:5:302:ALA:O	1:5:351:TYR:OH	2.15	0.61
1:I:206:ASN:HD21	1:I:324:THR:HA	1.65	0.61
1:K:406:ARG:NH1	1:K:429:ASP:OD1	2.34	0.61
1:M:406:ARG:NH1	1:M:429:ASP:OD1	2.34	0.61
1:N:406:ARG:NH1	1:N:429:ASP:OD1	2.34	0.61
1:P:406:ARG:NH1	1:P:429:ASP:OD1	2.34	0.61
1:Q:406:ARG:NH1	1:Q:429:ASP:OD1	2.34	0.61
1:R:206:ASN:HD21	1:R:324:THR:HA	1.66	0.61
1:T:257:LEU:HD11	1:d:87:GLN:HE22	1.65	0.61
1:V:206:ASN:HD21	1:V:324:THR:HA	1.65	0.61
1:Z:406:ARG:NH1	1:Z:429:ASP:OD1	2.34	0.61
1:d:302:ALA:O	1:d:351:TYR:OH	2.15	0.61
1:l:206:ASN:HD21	1:l:324:THR:HA	1.65	0.61
1:o:374:LEU:HD22	1:p:212:ILE:HD11	1.81	0.61
1:q:206:ASN:HD21	1:q:324:THR:HA	1.66	0.61
1:s:406:ARG:NH1	1:s:429:ASP:OD1	2.34	0.61
1:5:87:GLN:HE22	1:7:257:LEU:HD11	1.65	0.61
1:C:212:ILE:HD11	1:M:374:LEU:HD22	1.81	0.61
1:E:257:LEU:HD11	1:Q:87:GLN:HE22	1.65	0.61
1:H:406:ARG:O	1:H:531:LYS:NZ	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:206:ASN:HD21	1:J:324:THR:HA	1.66	0.61
1:O:206:ASN:HD21	1:O:324:THR:HA	1.65	0.61
1:S:257:LEU:HD11	1:U:87:GLN:HE22	1.65	0.61
1:S:406:ARG:O	1:S:531:LYS:NZ	2.34	0.61
1:T:206:ASN:HD21	1:T:324:THR:HA	1.65	0.61
1:V:87:GLN:HE22	1:X:257:LEU:HD11	1.65	0.61
1:b:206:ASN:HD21	1:b:324:THR:HA	1.66	0.61
1:d:206:ASN:HD21	1:d:324:THR:HA	1.66	0.61
1:h:406:ARG:NH1	1:h:429:ASP:OD1	2.34	0.61
1:o:257:LEU:HD11	1:p:87:GLN:HE22	1.65	0.61
1:p:490:GLU:HG3	1:s:109:GLN:HE22	1.64	0.61
1:1:406:ARG:O	1:1:531:LYS:NZ	2.34	0.61
1:4:406:ARG:NH1	1:4:429:ASP:OD1	2.34	0.61
1:5:406:ARG:O	1:5:531:LYS:NZ	2.34	0.61
1:6:374:LEU:HD22	1:7:212:ILE:HD11	1.81	0.61
1:8:406:ARG:NH1	1:8:429:ASP:OD1	2.34	0.61
1:B:406:ARG:O	1:B:531:LYS:NZ	2.34	0.61
1:D:374:LEU:HD22	1:N:212:ILE:HD11	1.81	0.61
1:F:206:ASN:HD21	1:F:324:THR:HA	1.65	0.61
1:T:302:ALA:O	1:T:351:TYR:OH	2.15	0.61
1:U:206:ASN:HD21	1:U:324:THR:HA	1.65	0.61
1:V:212:ILE:HD11	1:X:374:LEU:HD22	1.81	0.61
1:b:406:ARG:O	1:b:531:LYS:NZ	2.34	0.61
1:d:406:ARG:NH1	1:d:429:ASP:OD1	2.34	0.61
1:e:406:ARG:NH1	1:e:429:ASP:OD1	2.34	0.61
1:f:206:ASN:HD21	1:f:324:THR:HA	1.66	0.61
1:g:212:ILE:HD11	1:h:374:LEU:HD22	1.81	0.61
1:j:406:ARG:NH1	1:j:429:ASP:OD1	2.34	0.61
1:n:406:ARG:NH1	1:n:429:ASP:OD1	2.34	0.61
1:r:406:ARG:O	1:r:531:LYS:NZ	2.34	0.61
1:y:206:ASN:HD21	1:y:324:THR:HA	1.65	0.61
1:5:206:ASN:HD21	1:5:324:THR:HA	1.65	0.61
1:6:257:LEU:HD11	1:7:87:GLN:HE22	1.65	0.61
1:A:406:ARG:O	1:A:531:LYS:NZ	2.34	0.61
1:B:406:ARG:NH1	1:B:429:ASP:OD1	2.34	0.61
1:D:87:GLN:HE22	1:P:257:LEU:HD11	1.65	0.61
1:H:206:ASN:HD21	1:H:324:THR:HA	1.66	0.61
1:N:257:LEU:HD11	1:P:87:GLN:HE22	1.65	0.61
1:N:406:ARG:O	1:N:531:LYS:NZ	2.34	0.61
1:b:119:LYS:HB2	1:b:249:GLU:OE2	2.01	0.61
1:c:406:ARG:NH1	1:c:429:ASP:OD1	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:119:LYS:HB2	1:d:249:GLU:OE2	2.01	0.61
1:f:119:LYS:HB2	1:f:249:GLU:OE2	2.01	0.61
1:f:406:ARG:O	1:f:531:LYS:NZ	2.34	0.61
1:i:212:ILE:HD11	1:k:374:LEU:HD22	1.81	0.61
1:i:406:ARG:O	1:i:531:LYS:NZ	2.34	0.61
1:n:119:LYS:HB2	1:n:249:GLU:OE2	2.01	0.61
1:s:406:ARG:O	1:s:531:LYS:NZ	2.34	0.61
1:t:374:LEU:HD22	1:u:212:ILE:HD11	1.81	0.61
1:v:406:ARG:O	1:v:531:LYS:NZ	2.34	0.61
1:w:257:LEU:HD11	1:x:87:GLN:HE22	1.65	0.61
1:z:374:LEU:HD22	1:1:212:ILE:HD11	1.82	0.61
1:1:406:ARG:NH1	1:1:429:ASP:OD1	2.34	0.61
1:6:206:ASN:HD21	1:6:324:THR:HA	1.65	0.61
1:C:87:GLN:HE22	1:M:257:LEU:HD11	1.65	0.61
1:D:212:ILE:HD11	1:P:374:LEU:HD22	1.81	0.61
1:G:374:LEU:HD22	1:I:212:ILE:HD11	1.81	0.61
1:P:119:LYS:HB2	1:P:249:GLU:OE2	2.01	0.61
1:P:406:ARG:O	1:P:531:LYS:NZ	2.34	0.61
1:U:406:ARG:O	1:U:531:LYS:NZ	2.34	0.61
1:W:374:LEU:HD22	1:Y:212:ILE:HD11	1.81	0.61
1:W:406:ARG:NH1	1:W:429:ASP:OD1	2.34	0.61
1:e:119:LYS:HB2	1:e:249:GLU:OE2	2.01	0.61
1:i:119:LYS:HB2	1:i:249:GLU:OE2	2.01	0.61
1:j:119:LYS:HB2	1:j:249:GLU:OE2	2.01	0.61
1:j:374:LEU:HD22	1:k:212:ILE:HD11	1.81	0.61
1:q:406:ARG:NH1	1:q:429:ASP:OD1	2.34	0.61
1:s:206:ASN:HD21	1:s:324:THR:HA	1.65	0.61
1:3:206:ASN:HD21	1:3:324:THR:HA	1.66	0.61
1:6:406:ARG:NH1	1:6:429:ASP:OD1	2.34	0.61
1:A:119:LYS:HB2	1:A:249:GLU:OE2	2.01	0.60
1:B:212:ILE:HD11	1:L:374:LEU:HD22	1.82	0.60
1:D:119:LYS:HB2	1:D:249:GLU:OE2	2.01	0.60
1:I:406:ARG:NH1	1:I:429:ASP:OD1	2.34	0.60
1:N:119:LYS:HB2	1:N:249:GLU:OE2	2.01	0.60
1:R:406:ARG:NH1	1:R:429:ASP:OD1	2.34	0.60
1:W:257:LEU:HD11	1:Y:87:GLN:HE22	1.65	0.60
1:a:206:ASN:HD21	1:a:324:THR:HA	1.65	0.60
1:b:406:ARG:NH1	1:b:429:ASP:OD1	2.34	0.60
1:c:119:LYS:HB2	1:c:249:GLU:OE2	2.01	0.60
1:g:87:GLN:HE22	1:h:257:LEU:HD11	1.65	0.60
1:g:206:ASN:HD21	1:g:324:THR:HA	1.65	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:257:LEU:HD11	1:j:87:GLN:HE22	1.65	0.60
1:j:257:LEU:HD11	1:k:87:GLN:HE22	1.65	0.60
1:j:406:ARG:O	1:j:531:LYS:NZ	2.34	0.60
1:v:119:LYS:HB2	1:v:249:GLU:OE2	2.01	0.60
1:w:206:ASN:HD21	1:w:324:THR:HA	1.65	0.60
1:x:119:LYS:HB2	1:x:249:GLU:OE2	2.01	0.60
1:x:406:ARG:O	1:x:531:LYS:NZ	2.34	0.60
1:6:406:ARG:O	1:6:531:LYS:NZ	2.34	0.60
1:E:119:LYS:HB2	1:E:249:GLU:OE2	2.01	0.60
1:E:206:ASN:HD21	1:E:324:THR:HA	1.65	0.60
1:G:119:LYS:HB2	1:G:249:GLU:OE2	2.01	0.60
1:K:98:ASN:ND2	1:K:175:ASP:OD1	2.34	0.60
1:M:206:ASN:HD21	1:M:324:THR:HA	1.65	0.60
1:Q:119:LYS:HB2	1:Q:249:GLU:OE2	2.01	0.60
1:Q:406:ARG:O	1:Q:531:LYS:NZ	2.34	0.60
1:R:212:ILE:HD11	1:U:374:LEU:HD22	1.82	0.60
1:V:119:LYS:HB2	1:V:249:GLU:OE2	2.01	0.60
1:W:206:ASN:HD21	1:W:324:THR:HA	1.66	0.60
1:W:406:ARG:O	1:W:531:LYS:NZ	2.34	0.60
1:Y:98:ASN:ND2	1:Y:175:ASP:OD1	2.34	0.60
1:Z:206:ASN:HD21	1:Z:324:THR:HA	1.65	0.60
1:j:98:ASN:ND2	1:j:175:ASP:OD1	2.34	0.60
1:k:119:LYS:HB2	1:k:249:GLU:OE2	2.01	0.60
1:q:302:ALA:O	1:q:351:TYR:OH	2.15	0.60
1:t:98:ASN:ND2	1:t:175:ASP:OD1	2.34	0.60
1:z:406:ARG:NH1	1:z:429:ASP:OD1	2.34	0.60
1:3:87:GLN:HE22	1:4:257:LEU:HD11	1.65	0.60
1:7:98:ASN:ND2	1:7:175:ASP:OD1	2.34	0.60
1:A:212:ILE:HD11	1:I:374:LEU:HD22	1.81	0.60
1:B:87:GLN:HE22	1:L:257:LEU:HD11	1.65	0.60
1:F:119:LYS:HB2	1:F:249:GLU:OE2	2.01	0.60
1:G:98:ASN:ND2	1:G:175:ASP:OD1	2.34	0.60
1:G:406:ARG:O	1:G:531:LYS:NZ	2.34	0.60
1:J:119:LYS:HB2	1:J:249:GLU:OE2	2.01	0.60
1:K:119:LYS:HB2	1:K:249:GLU:OE2	2.01	0.60
1:K:257:LEU:HD11	1:a:87:GLN:HE22	1.65	0.60
1:O:212:ILE:HD11	1:n:374:LEU:HD22	1.81	0.60
1:P:98:ASN:ND2	1:P:175:ASP:OD1	2.34	0.60
1:R:302:ALA:O	1:R:351:TYR:OH	2.15	0.60
1:T:406:ARG:O	1:T:531:LYS:NZ	2.34	0.60
1:f:406:ARG:NH1	1:f:429:ASP:OD1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:206:ASN:HD21	1:h:324:THR:HA	1.65	0.60
1:p:119:LYS:HB2	1:p:249:GLU:OE2	2.01	0.60
1:t:119:LYS:HB2	1:t:249:GLU:OE2	2.01	0.60
1:t:406:ARG:O	1:t:531:LYS:NZ	2.34	0.60
1:u:374:LEU:HD22	1:v:212:ILE:HD11	1.81	0.60
1:u:406:ARG:NH1	1:u:429:ASP:OD1	2.34	0.60
1:w:119:LYS:HB2	1:w:249:GLU:OE2	2.01	0.60
1:z:212:ILE:HD11	1:2:374:LEU:HD22	1.81	0.60
1:2:119:LYS:HB2	1:2:249:GLU:OE2	2.01	0.60
1:3:212:ILE:HD11	1:4:374:LEU:HD22	1.81	0.60
1:4:98:ASN:ND2	1:4:175:ASP:OD1	2.34	0.60
1:4:119:LYS:HB2	1:4:249:GLU:OE2	2.01	0.60
1:B:206:ASN:HD21	1:B:324:THR:HA	1.66	0.60
1:C:206:ASN:HD21	1:C:324:THR:HA	1.65	0.60
1:C:406:ARG:O	1:C:531:LYS:NZ	2.34	0.60
1:L:406:ARG:NH1	1:L:429:ASP:OD1	2.34	0.60
1:L:406:ARG:O	1:L:531:LYS:NZ	2.34	0.60
1:T:119:LYS:HB2	1:T:249:GLU:OE2	2.01	0.60
1:a:119:LYS:HB2	1:a:249:GLU:OE2	2.01	0.60
1:d:257:LEU:HD11	1:l:87:GLN:HE22	1.65	0.60
1:m:406:ARG:O	1:m:531:LYS:NZ	2.34	0.60
1:s:119:LYS:HB2	1:s:249:GLU:OE2	2.01	0.60
1:y:119:LYS:HB2	1:y:249:GLU:OE2	2.01	0.60
1:1:206:ASN:HD21	1:1:324:THR:HA	1.66	0.60
1:8:206:ASN:HD21	1:8:324:THR:HA	1.65	0.60
1:D:406:ARG:O	1:D:531:LYS:NZ	2.34	0.60
1:J:374:LEU:HD22	1:L:212:ILE:HD11	1.81	0.60
1:K:374:LEU:HD22	1:a:212:ILE:HD11	1.81	0.60
1:L:302:ALA:O	1:L:351:TYR:OH	2.15	0.60
1:P:206:ASN:HD21	1:P:324:THR:HA	1.66	0.60
1:g:406:ARG:O	1:g:531:LYS:NZ	2.34	0.60
1:m:119:LYS:HB2	1:m:249:GLU:OE2	2.01	0.60
1:q:87:GLN:HE22	1:s:257:LEU:HD11	1.65	0.60
1:v:206:ASN:HD21	1:v:324:THR:HA	1.65	0.60
1:z:257:LEU:HD11	1:1:87:GLN:HE22	1.65	0.60
1:z:406:ARG:O	1:z:531:LYS:NZ	2.34	0.60
1:3:119:LYS:HB2	1:3:249:GLU:OE2	2.01	0.60
1:D:98:ASN:ND2	1:D:175:ASP:OD1	2.34	0.60
1:D:206:ASN:HD21	1:D:324:THR:HA	1.66	0.60
1:E:87:GLN:HE22	1:F:257:LEU:HD11	1.65	0.60
1:E:406:ARG:O	1:E:531:LYS:NZ	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:406:ARG:NH1	1:F:429:ASP:OD1	2.34	0.60
1:L:119:LYS:HB2	1:L:249:GLU:OE2	2.01	0.60
1:M:119:LYS:HB2	1:M:249:GLU:OE2	2.01	0.60
1:O:87:GLN:HE22	1:n:257:LEU:HD11	1.65	0.60
1:R:119:LYS:HB2	1:R:249:GLU:OE2	2.01	0.60
1:U:119:LYS:HB2	1:U:249:GLU:OE2	2.01	0.60
1:d:374:LEU:HD22	1:l:212:ILE:HD11	1.81	0.60
1:d:406:ARG:O	1:d:531:LYS:NZ	2.34	0.60
1:h:406:ARG:O	1:h:531:LYS:NZ	2.34	0.60
1:i:206:ASN:HD21	1:i:324:THR:HA	1.65	0.60
1:j:206:ASN:HD21	1:j:324:THR:HA	1.65	0.60
1:k:406:ARG:O	1:k:531:LYS:NZ	2.34	0.60
1:p:302:ALA:O	1:p:351:TYR:OH	2.15	0.60
1:w:87:GLN:HE22	1:y:257:LEU:HD11	1.65	0.60
1:w:406:ARG:O	1:w:531:LYS:NZ	2.34	0.60
1:x:406:ARG:NH1	1:x:429:ASP:OD1	2.34	0.60
1:z:119:LYS:HB2	1:z:249:GLU:OE2	2.01	0.60
1:2:302:ALA:O	1:2:351:TYR:OH	2.15	0.60
1:3:406:ARG:NH1	1:3:429:ASP:OD1	2.34	0.60
1:G:406:ARG:NH1	1:G:429:ASP:OD1	2.34	0.60
1:H:406:ARG:NH1	1:H:429:ASP:OD1	2.34	0.60
1:S:406:ARG:NH1	1:S:429:ASP:OD1	2.34	0.60
1:V:257:LEU:HD11	1:e:87:GLN:HE22	1.65	0.60
1:X:87:GLN:HE22	1:e:257:LEU:HD11	1.65	0.60
1:Z:212:ILE:HD11	1:3:374:LEU:HD22	1.81	0.60
1:a:406:ARG:NH1	1:a:429:ASP:OD1	2.34	0.60
1:c:406:ARG:O	1:c:531:LYS:NZ	2.34	0.60
1:e:406:ARG:O	1:e:531:LYS:NZ	2.34	0.60
1:h:119:LYS:HB2	1:h:249:GLU:OE2	2.01	0.60
1:k:98:ASN:ND2	1:k:175:ASP:OD1	2.34	0.60
1:q:119:LYS:HB2	1:q:249:GLU:OE2	2.01	0.60
1:w:295:THR:HG23	1:w:380:GLN:HB3	1.84	0.60
1:5:406:ARG:NH1	1:5:429:ASP:OD1	2.34	0.60
1:A:206:ASN:HD21	1:A:324:THR:HA	1.65	0.60
1:D:406:ARG:NH1	1:D:429:ASP:OD1	2.34	0.60
1:E:295:THR:HG23	1:E:380:GLN:HB3	1.84	0.60
1:G:257:LEU:HD11	1:I:87:GLN:HE22	1.65	0.60
1:M:406:ARG:O	1:M:531:LYS:NZ	2.34	0.60
1:N:206:ASN:HD21	1:N:324:THR:HA	1.65	0.60
1:O:406:ARG:NH1	1:O:429:ASP:OD1	2.34	0.60
1:V:98:ASN:ND2	1:V:175:ASP:OD1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:206:ASN:HD21	1:Y:324:THR:HA	1.66	0.60
1:c:257:LEU:HD11	1:o:87:GLN:HE22	1.65	0.60
1:k:206:ASN:HD21	1:k:324:THR:HA	1.65	0.60
1:k:406:ARG:NH1	1:k:429:ASP:OD1	2.34	0.60
1:l:406:ARG:NH1	1:l:429:ASP:OD1	2.34	0.60
1:m:406:ARG:NH1	1:m:429:ASP:OD1	2.34	0.60
1:o:406:ARG:NH1	1:o:429:ASP:OD1	2.34	0.60
1:r:406:ARG:NH1	1:r:429:ASP:OD1	2.34	0.60
1:t:257:LEU:HD11	1:u:87:GLN:HE22	1.65	0.60
1:y:406:ARG:NH1	1:y:429:ASP:OD1	2.34	0.60
1:7:206:ASN:HD21	1:7:324:THR:HA	1.65	0.60
1:D:295:THR:HG23	1:D:380:GLN:HB3	1.84	0.60
1:L:206:ASN:HD21	1:L:324:THR:HA	1.65	0.60
1:S:119:LYS:HB2	1:S:249:GLU:OE2	2.01	0.60
1:X:406:ARG:NH1	1:X:429:ASP:OD1	2.34	0.60
1:a:374:LEU:HD22	1:8:212:ILE:HD11	1.81	0.60
1:c:295:THR:HG23	1:c:380:GLN:HB3	1.84	0.60
1:p:98:ASN:ND2	1:p:175:ASP:OD1	2.34	0.60
1:q:299:LEU:HD11	1:s:294:MET:HE1	1.84	0.60
1:r:119:LYS:HB2	1:r:249:GLU:OE2	2.01	0.60
1:t:206:ASN:HD21	1:t:324:THR:HA	1.65	0.60
1:t:406:ARG:NH1	1:t:429:ASP:OD1	2.34	0.60
1:v:302:ALA:O	1:v:351:TYR:OH	2.15	0.60
1:y:295:THR:HG23	1:y:380:GLN:HB3	1.84	0.60
1:z:206:ASN:HD21	1:z:324:THR:HA	1.65	0.60
1:1:119:LYS:HB2	1:1:249:GLU:OE2	2.01	0.60
1:8:119:LYS:HB2	1:8:249:GLU:OE2	2.01	0.60
1:A:302:ALA:O	1:A:351:TYR:OH	2.15	0.60
1:B:119:LYS:HB2	1:B:249:GLU:OE2	2.01	0.60
1:G:206:ASN:HD21	1:G:324:THR:HA	1.65	0.60
1:I:98:ASN:ND2	1:I:175:ASP:OD1	2.34	0.60
1:K:295:THR:HG23	1:K:380:GLN:HB3	1.84	0.60
1:L:98:ASN:ND2	1:L:175:ASP:OD1	2.34	0.60
1:N:98:ASN:ND2	1:N:175:ASP:OD1	2.34	0.60
1:Q:206:ASN:HD21	1:Q:324:THR:HA	1.65	0.60
1:R:87:GLN:HE22	1:U:257:LEU:HD11	1.65	0.60
1:T:406:ARG:NH1	1:T:429:ASP:OD1	2.34	0.60
1:V:295:THR:HG23	1:V:380:GLN:HB3	1.84	0.60
1:Y:119:LYS:HB2	1:Y:249:GLU:OE2	2.01	0.60
1:Z:119:LYS:HB2	1:Z:249:GLU:OE2	2.01	0.60
1:e:295:THR:HG23	1:e:380:GLN:HB3	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:295:THR:HG23	1:k:380:GLN:HB3	1.84	0.60
1:v:295:THR:HG23	1:v:380:GLN:HB3	1.84	0.60
1:x:295:THR:HG23	1:x:380:GLN:HB3	1.84	0.60
1:4:295:THR:HG23	1:4:380:GLN:HB3	1.84	0.60
1:A:229:LEU:HD22	1:A:233:GLU:HB3	1.84	0.59
1:C:295:THR:HG23	1:C:380:GLN:HB3	1.84	0.59
1:F:295:THR:HG23	1:F:380:GLN:HB3	1.84	0.59
1:O:406:ARG:O	1:O:531:LYS:NZ	2.34	0.59
1:O:491:ARG:O	1:O:492:ARG:NH1	2.36	0.59
1:P:295:THR:HG23	1:P:380:GLN:HB3	1.84	0.59
1:Q:295:THR:HG23	1:Q:380:GLN:HB3	1.84	0.59
1:R:229:LEU:HD22	1:R:233:GLU:HB3	1.84	0.59
1:Y:229:LEU:HD22	1:Y:233:GLU:HB3	1.84	0.59
1:a:295:THR:HG23	1:a:380:GLN:HB3	1.84	0.59
1:c:87:GLN:HE22	1:p:257:LEU:HD11	1.65	0.59
1:i:98:ASN:ND2	1:i:175:ASP:OD1	2.34	0.59
1:l:119:LYS:HB2	1:l:249:GLU:OE2	2.01	0.59
1:l:491:ARG:O	1:l:492:ARG:NH1	2.36	0.59
1:v:229:LEU:HD22	1:v:233:GLU:HB3	1.84	0.59
1:3:295:THR:HG23	1:3:380:GLN:HB3	1.84	0.59
1:A:295:THR:HG23	1:A:380:GLN:HB3	1.84	0.59
1:J:98:ASN:ND2	1:J:175:ASP:OD1	2.34	0.59
1:R:98:ASN:ND2	1:R:175:ASP:OD1	2.34	0.59
1:S:229:LEU:HD22	1:S:233:GLU:HB3	1.84	0.59
1:X:119:LYS:HB2	1:X:249:GLU:OE2	2.01	0.59
1:g:295:THR:HG23	1:g:380:GLN:HB3	1.84	0.59
1:j:295:THR:HG23	1:j:380:GLN:HB3	1.84	0.59
1:o:98:ASN:ND2	1:o:175:ASP:OD1	2.34	0.59
1:p:295:THR:HG23	1:p:380:GLN:HB3	1.84	0.59
1:t:295:THR:HG23	1:t:380:GLN:HB3	1.84	0.59
1:u:98:ASN:ND2	1:u:175:ASP:OD1	2.34	0.59
1:x:206:ASN:HD21	1:x:324:THR:HA	1.66	0.59
1:z:98:ASN:ND2	1:z:175:ASP:OD1	2.34	0.59
1:7:119:LYS:HB2	1:7:249:GLU:OE2	2.01	0.59
1:7:229:LEU:HD22	1:7:233:GLU:HB3	1.84	0.59
1:G:295:THR:HG23	1:G:380:GLN:HB3	1.84	0.59
1:H:229:LEU:HD22	1:H:233:GLU:HB3	1.84	0.59
1:I:119:LYS:HB2	1:I:249:GLU:OE2	2.01	0.59
1:O:119:LYS:HB2	1:O:249:GLU:OE2	2.01	0.59
1:V:406:ARG:NH1	1:V:429:ASP:OD1	2.34	0.59
1:W:295:THR:HG23	1:W:380:GLN:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:98:ASN:ND2	1:X:175:ASP:OD1	2.34	0.59
1:Z:406:ARG:O	1:Z:531:LYS:NZ	2.34	0.59
1:e:98:ASN:ND2	1:e:175:ASP:OD1	2.34	0.59
1:l:406:ARG:O	1:l:531:LYS:NZ	2.34	0.59
1:o:206:ASN:HD21	1:o:324:THR:HA	1.65	0.59
1:p:406:ARG:NH1	1:p:429:ASP:OD1	2.34	0.59
1:q:229:LEU:HD22	1:q:233:GLU:HB3	1.84	0.59
1:r:229:LEU:HD22	1:r:233:GLU:HB3	1.84	0.59
1:z:302:ALA:O	1:z:351:TYR:OH	2.15	0.59
1:2:98:ASN:ND2	1:2:175:ASP:OD1	2.34	0.59
1:3:406:ARG:O	1:3:531:LYS:NZ	2.34	0.59
1:5:98:ASN:ND2	1:5:175:ASP:OD1	2.34	0.59
1:5:229:LEU:HD22	1:5:233:GLU:HB3	1.84	0.59
1:6:119:LYS:HB2	1:6:249:GLU:OE2	2.01	0.59
1:6:295:THR:HG23	1:6:380:GLN:HB3	1.84	0.59
1:8:295:THR:HG23	1:8:380:GLN:HB3	1.84	0.59
1:E:229:LEU:HD22	1:E:233:GLU:HB3	1.84	0.59
1:F:98:ASN:ND2	1:F:175:ASP:OD1	2.34	0.59
1:H:98:ASN:ND2	1:H:175:ASP:OD1	2.34	0.59
1:H:491:ARG:O	1:H:492:ARG:NH1	2.35	0.59
1:K:406:ARG:O	1:K:531:LYS:NZ	2.34	0.59
1:L:229:LEU:HD22	1:L:233:GLU:HB3	1.84	0.59
1:M:491:ARG:O	1:M:492:ARG:NH1	2.35	0.59
1:N:491:ARG:O	1:N:492:ARG:NH1	2.35	0.59
1:R:406:ARG:O	1:R:531:LYS:NZ	2.34	0.59
1:T:98:ASN:ND2	1:T:175:ASP:OD1	2.34	0.59
1:U:98:ASN:ND2	1:U:175:ASP:OD1	2.34	0.59
1:Z:295:THR:HG23	1:Z:380:GLN:HB3	1.84	0.59
1:a:257:LEU:HD11	1:8:87:GLN:HE22	1.65	0.59
1:c:98:ASN:ND2	1:c:175:ASP:OD1	2.34	0.59
1:c:229:LEU:HD22	1:c:233:GLU:HB3	1.85	0.59
1:d:98:ASN:ND2	1:d:175:ASP:OD1	2.34	0.59
1:e:229:LEU:HD22	1:e:233:GLU:HB3	1.85	0.59
1:g:119:LYS:HB2	1:g:249:GLU:OE2	2.01	0.59
1:g:491:ARG:O	1:g:492:ARG:NH1	2.35	0.59
1:h:491:ARG:O	1:h:492:ARG:NH1	2.35	0.59
1:n:98:ASN:ND2	1:n:175:ASP:OD1	2.34	0.59
1:o:119:LYS:HB2	1:o:249:GLU:OE2	2.01	0.59
1:q:98:ASN:ND2	1:q:175:ASP:OD1	2.34	0.59
1:q:406:ARG:O	1:q:531:LYS:NZ	2.34	0.59
1:w:229:LEU:HD22	1:w:233:GLU:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:491:ARG:O	1:y:492:ARG:NH1	2.35	0.59
1:z:229:LEU:HD22	1:z:233:GLU:HB3	1.84	0.59
1:6:98:ASN:ND2	1:6:175:ASP:OD1	2.34	0.59
1:B:229:LEU:HD22	1:B:233:GLU:HB3	1.84	0.59
1:C:119:LYS:HB2	1:C:249:GLU:OE2	2.01	0.59
1:C:491:ARG:O	1:C:492:ARG:NH1	2.35	0.59
1:E:98:ASN:ND2	1:E:175:ASP:OD1	2.34	0.59
1:F:491:ARG:O	1:F:492:ARG:NH1	2.35	0.59
1:G:229:LEU:HD22	1:G:233:GLU:HB3	1.84	0.59
1:H:119:LYS:HB2	1:H:249:GLU:OE2	2.01	0.59
1:N:229:LEU:HD22	1:N:233:GLU:HB3	1.84	0.59
1:W:98:ASN:ND2	1:W:175:ASP:OD1	2.34	0.59
1:a:406:ARG:O	1:a:531:LYS:NZ	2.34	0.59
1:b:229:LEU:HD22	1:b:233:GLU:HB3	1.85	0.59
1:f:229:LEU:HD22	1:f:233:GLU:HB3	1.85	0.59
1:g:98:ASN:ND2	1:g:175:ASP:OD1	2.34	0.59
1:i:229:LEU:HD22	1:i:233:GLU:HB3	1.84	0.59
1:i:491:ARG:O	1:i:492:ARG:NH1	2.35	0.59
1:k:302:ALA:O	1:k:351:TYR:OH	2.15	0.59
1:l:229:LEU:HD22	1:l:233:GLU:HB3	1.84	0.59
1:2:406:ARG:O	1:2:531:LYS:NZ	2.34	0.59
1:4:406:ARG:O	1:4:531:LYS:NZ	2.34	0.59
1:5:491:ARG:O	1:5:492:ARG:NH1	2.35	0.59
1:8:406:ARG:O	1:8:531:LYS:NZ	2.34	0.59
1:C:98:ASN:ND2	1:C:175:ASP:OD1	2.34	0.59
1:J:406:ARG:O	1:J:531:LYS:NZ	2.34	0.59
1:O:229:LEU:HD22	1:O:233:GLU:HB3	1.84	0.59
1:W:119:LYS:HB2	1:W:249:GLU:OE2	2.01	0.59
1:X:206:ASN:HD21	1:X:324:THR:HA	1.65	0.59
1:Z:87:GLN:HE22	1:3:257:LEU:HD11	1.65	0.59
1:m:98:ASN:ND2	1:m:175:ASP:OD1	2.34	0.59
1:q:170:HIS:CD2	1:q:171:PRO:HD2	2.38	0.59
1:s:98:ASN:ND2	1:s:175:ASP:OD1	2.34	0.59
1:t:229:LEU:HD22	1:t:233:GLU:HB3	1.84	0.59
1:u:119:LYS:HB2	1:u:249:GLU:OE2	2.01	0.59
1:u:406:ARG:O	1:u:531:LYS:NZ	2.34	0.59
1:w:98:ASN:ND2	1:w:175:ASP:OD1	2.34	0.59
1:y:98:ASN:ND2	1:y:175:ASP:OD1	2.34	0.59
1:1:229:LEU:HD22	1:1:233:GLU:HB3	1.84	0.59
1:3:98:ASN:ND2	1:3:175:ASP:OD1	2.34	0.59
1:H:170:HIS:CD2	1:H:171:PRO:HD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:406:ARG:O	1:I:531:LYS:NZ	2.34	0.59
1:N:295:THR:HG23	1:N:380:GLN:HB3	1.84	0.59
1:R:170:HIS:CD2	1:R:171:PRO:HD2	2.38	0.59
1:Y:406:ARG:O	1:Y:531:LYS:NZ	2.34	0.59
1:a:98:ASN:ND2	1:a:175:ASP:OD1	2.34	0.59
1:m:170:HIS:CD2	1:m:171:PRO:HD2	2.38	0.59
1:n:229:LEU:HD22	1:n:233:GLU:HB3	1.84	0.59
1:o:406:ARG:O	1:o:531:LYS:NZ	2.34	0.59
1:v:170:HIS:CD2	1:v:171:PRO:HD2	2.38	0.59
1:1:302:ALA:O	1:1:351:TYR:OH	2.15	0.59
1:4:491:ARG:O	1:4:492:ARG:NH1	2.35	0.59
1:5:119:LYS:HB2	1:5:249:GLU:OE2	2.01	0.59
1:5:170:HIS:CD2	1:5:171:PRO:HD2	2.38	0.59
1:8:491:ARG:O	1:8:492:ARG:NH1	2.35	0.59
1:A:170:HIS:CD2	1:A:171:PRO:HD2	2.38	0.59
1:F:229:LEU:HD22	1:F:233:GLU:HB3	1.84	0.59
1:I:491:ARG:O	1:I:492:ARG:NH1	2.35	0.59
1:P:170:HIS:CD2	1:P:171:PRO:HD2	2.38	0.59
1:P:229:LEU:HD22	1:P:233:GLU:HB3	1.84	0.59
1:T:170:HIS:CD2	1:T:171:PRO:HD2	2.38	0.59
1:X:406:ARG:O	1:X:531:LYS:NZ	2.34	0.59
1:Z:491:ARG:O	1:Z:492:ARG:NH1	2.36	0.59
1:a:170:HIS:CD2	1:a:171:PRO:HD2	2.38	0.59
1:d:229:LEU:HD22	1:d:233:GLU:HB3	1.84	0.59
1:j:170:HIS:CD2	1:j:171:PRO:HD2	2.38	0.59
1:j:229:LEU:HD22	1:j:233:GLU:HB3	1.84	0.59
1:z:491:ARG:O	1:z:492:ARG:NH1	2.35	0.59
1:3:170:HIS:CD2	1:3:171:PRO:HD2	2.38	0.59
1:6:302:ALA:O	1:6:351:TYR:OH	2.15	0.59
1:7:406:ARG:O	1:7:531:LYS:NZ	2.34	0.59
1:8:170:HIS:CD2	1:8:171:PRO:HD2	2.38	0.59
1:D:170:HIS:CD2	1:D:171:PRO:HD2	2.38	0.59
1:D:302:ALA:O	1:D:351:TYR:OH	2.15	0.59
1:G:170:HIS:CD2	1:G:171:PRO:HD2	2.38	0.59
1:I:302:ALA:O	1:I:351:TYR:OH	2.15	0.59
1:K:491:ARG:O	1:K:492:ARG:NH1	2.35	0.59
1:L:491:ARG:O	1:L:492:ARG:NH1	2.35	0.59
1:N:302:ALA:O	1:N:351:TYR:OH	2.15	0.59
1:V:170:HIS:CD2	1:V:171:PRO:HD2	2.38	0.59
1:Z:170:HIS:CD2	1:Z:171:PRO:HD2	2.38	0.59
1:k:170:HIS:CD2	1:k:171:PRO:HD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:406:ARG:O	1:n:531:LYS:NZ	2.34	0.59
1:p:170:HIS:CD2	1:p:171:PRO:HD2	2.38	0.59
1:q:418:LYS:NZ	1:s:538:LEU:O	2.35	0.59
1:t:170:HIS:CD2	1:t:171:PRO:HD2	2.38	0.59
1:u:170:HIS:CD2	1:u:171:PRO:HD2	2.38	0.59
1:u:302:ALA:O	1:u:351:TYR:OH	2.15	0.59
1:u:491:ARG:O	1:u:492:ARG:NH1	2.35	0.59
1:y:229:LEU:HD22	1:y:233:GLU:HB3	1.84	0.59
1:2:295:THR:HG23	1:2:380:GLN:HB3	1.84	0.59
1:6:170:HIS:CD2	1:6:171:PRO:HD2	2.38	0.59
1:F:170:HIS:CD2	1:F:171:PRO:HD2	2.38	0.59
1:F:406:ARG:O	1:F:531:LYS:NZ	2.34	0.59
1:I:170:HIS:CD2	1:I:171:PRO:HD2	2.38	0.59
1:J:295:THR:HG23	1:J:380:GLN:HB3	1.84	0.59
1:S:170:HIS:CD2	1:S:171:PRO:HD2	2.38	0.59
1:S:295:THR:HG23	1:S:380:GLN:HB3	1.84	0.59
1:V:218:PHE:HB2	1:W:511:HIS:CD2	2.38	0.59
1:i:295:THR:HG23	1:i:380:GLN:HB3	1.84	0.59
1:l:98:ASN:ND2	1:l:175:ASP:OD1	2.34	0.59
1:m:491:ARG:O	1:m:492:ARG:NH1	2.35	0.59
1:p:218:PHE:HB2	1:6:511:HIS:CD2	2.38	0.59
1:r:170:HIS:CD2	1:r:171:PRO:HD2	2.38	0.59
1:r:295:THR:HG23	1:r:380:GLN:HB3	1.84	0.59
1:s:295:THR:HG23	1:s:380:GLN:HB3	1.84	0.59
1:y:406:ARG:O	1:y:531:LYS:NZ	2.34	0.59
1:z:294:MET:HE1	1:1:299:LEU:HD11	1.85	0.59
1:B:299:LEU:HD11	1:L:294:MET:HE1	1.85	0.58
1:B:302:ALA:O	1:B:351:TYR:OH	2.15	0.58
1:E:491:ARG:O	1:E:492:ARG:NH1	2.35	0.58
1:O:98:ASN:ND2	1:O:175:ASP:OD1	2.34	0.58
1:O:295:THR:HG23	1:O:380:GLN:HB3	1.84	0.58
1:R:299:LEU:HD11	1:U:294:MET:HE1	1.85	0.58
1:T:491:ARG:O	1:T:492:ARG:NH1	2.35	0.58
1:U:229:LEU:HD22	1:U:233:GLU:HB3	1.84	0.58
1:V:406:ARG:O	1:V:531:LYS:NZ	2.34	0.58
1:X:295:THR:HG23	1:X:380:GLN:HB3	1.84	0.58
1:m:511:HIS:CD2	1:s:218:PHE:HB2	2.37	0.58
1:o:295:THR:HG23	1:o:380:GLN:HB3	1.84	0.58
1:s:229:LEU:HD22	1:s:233:GLU:HB3	1.84	0.58
1:w:170:HIS:CD2	1:w:171:PRO:HD2	2.38	0.58
1:y:170:HIS:CD2	1:y:171:PRO:HD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:295:THR:HG23	1:H:380:GLN:HB3	1.84	0.58
1:U:295:THR:HG23	1:U:380:GLN:HB3	1.84	0.58
1:W:170:HIS:CD2	1:W:171:PRO:HD2	2.38	0.58
1:X:229:LEU:HD22	1:X:233:GLU:HB3	1.84	0.58
1:Y:491:ARG:O	1:Y:492:ARG:NH1	2.35	0.58
1:Z:99:PHE:O	1:Z:105:HIS:HE1	1.87	0.58
1:c:229:LEU:HD11	1:c:235:THR:HG23	1.86	0.58
1:f:99:PHE:O	1:f:105:HIS:HE1	1.87	0.58
1:f:170:HIS:CD2	1:f:171:PRO:HD2	2.38	0.58
1:i:302:ALA:O	1:i:351:TYR:OH	2.15	0.58
1:l:295:THR:HG23	1:l:380:GLN:HB3	1.84	0.58
1:x:170:HIS:CD2	1:x:171:PRO:HD2	2.38	0.58
1:7:229:LEU:HD11	1:7:235:THR:HG23	1.86	0.58
1:8:99:PHE:O	1:8:105:HIS:HE1	1.87	0.58
1:A:98:ASN:ND2	1:A:175:ASP:OD1	2.34	0.58
1:D:229:LEU:HD22	1:D:233:GLU:HB3	1.84	0.58
1:E:170:HIS:CD2	1:E:171:PRO:HD2	2.38	0.58
1:K:170:HIS:CD2	1:K:171:PRO:HD2	2.38	0.58
1:K:218:PHE:HB2	1:7:511:HIS:CD2	2.38	0.58
1:O:170:HIS:CD2	1:O:171:PRO:HD2	2.38	0.58
1:Q:170:HIS:CD2	1:Q:171:PRO:HD2	2.38	0.58
1:T:229:LEU:HD22	1:T:233:GLU:HB3	1.84	0.58
1:X:170:HIS:CD2	1:X:171:PRO:HD2	2.38	0.58
1:Y:99:PHE:O	1:Y:105:HIS:HE1	1.87	0.58
1:Y:229:LEU:HD11	1:Y:235:THR:HG23	1.86	0.58
1:b:99:PHE:O	1:b:105:HIS:HE1	1.87	0.58
1:e:229:LEU:HD11	1:e:235:THR:HG23	1.86	0.58
1:j:511:HIS:CD2	1:x:218:PHE:HB2	2.39	0.58
1:m:229:LEU:HD22	1:m:233:GLU:HB3	1.84	0.58
1:w:491:ARG:O	1:w:492:ARG:NH1	2.35	0.58
1:z:295:THR:HG23	1:z:380:GLN:HB3	1.84	0.58
1:5:295:THR:HG23	1:5:380:GLN:HB3	1.84	0.58
1:H:511:HIS:CD2	1:I:218:PHE:HB2	2.39	0.58
1:I:229:LEU:HD22	1:I:233:GLU:HB3	1.84	0.58
1:J:170:HIS:CD2	1:J:171:PRO:HD2	2.38	0.58
1:L:295:THR:HG23	1:L:380:GLN:HB3	1.84	0.58
1:P:511:HIS:CD2	1:Q:218:PHE:HB2	2.39	0.58
1:R:218:PHE:HB2	1:V:511:HIS:CD2	2.39	0.58
1:Y:511:HIS:CD2	1:4:218:PHE:HB2	2.38	0.58
1:Z:98:ASN:ND2	1:Z:175:ASP:OD1	2.34	0.58
1:b:170:HIS:CD2	1:b:171:PRO:HD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:511:HIS:CD2	1:i:218:PHE:HB2	2.39	0.58
1:k:229:LEU:HD22	1:k:233:GLU:HB3	1.84	0.58
1:l:170:HIS:CD2	1:l:171:PRO:HD2	2.38	0.58
1:o:229:LEU:HD22	1:o:233:GLU:HB3	1.84	0.58
1:p:406:ARG:O	1:p:531:LYS:NZ	2.34	0.58
1:p:511:HIS:CD2	1:q:218:PHE:HB2	2.39	0.58
1:s:170:HIS:CD2	1:s:171:PRO:HD2	2.38	0.58
1:u:218:PHE:HB2	1:5:511:HIS:CD2	2.39	0.58
1:1:295:THR:HG23	1:1:380:GLN:HB3	1.84	0.58
1:5:99:PHE:O	1:5:105:HIS:HE1	1.87	0.58
1:7:491:ARG:O	1:7:492:ARG:NH1	2.35	0.58
1:B:98:ASN:ND2	1:B:175:ASP:OD1	2.34	0.58
1:B:99:PHE:O	1:B:105:HIS:HE1	1.87	0.58
1:B:295:THR:HG23	1:B:380:GLN:HB3	1.84	0.58
1:E:99:PHE:O	1:E:105:HIS:HE1	1.87	0.58
1:G:99:PHE:O	1:G:105:HIS:HE1	1.87	0.58
1:H:99:PHE:O	1:H:105:HIS:HE1	1.87	0.58
1:M:99:PHE:O	1:M:105:HIS:HE1	1.87	0.58
1:M:511:HIS:CD2	1:N:218:PHE:HB2	2.39	0.58
1:Q:511:HIS:CD2	1:S:218:PHE:HB2	2.39	0.58
1:c:99:PHE:O	1:c:105:HIS:HE1	1.87	0.58
1:f:218:PHE:HB2	1:z:511:HIS:CD2	2.39	0.58
1:h:99:PHE:O	1:h:105:HIS:HE1	1.87	0.58
1:o:170:HIS:CD2	1:o:171:PRO:HD2	2.38	0.58
1:r:98:ASN:ND2	1:r:175:ASP:OD1	2.34	0.58
1:r:218:PHE:HB2	1:x:511:HIS:CD2	2.39	0.58
1:t:99:PHE:O	1:t:105:HIS:HE1	1.87	0.58
1:v:98:ASN:ND2	1:v:175:ASP:OD1	2.34	0.58
1:w:99:PHE:O	1:w:105:HIS:HE1	1.87	0.58
1:1:491:ARG:O	1:1:492:ARG:NH1	2.35	0.58
1:4:170:HIS:CD2	1:4:171:PRO:HD2	2.38	0.58
1:7:99:PHE:O	1:7:105:HIS:HE1	1.87	0.58
1:G:294:MET:HE1	1:I:299:LEU:HD11	1.86	0.58
1:J:348:ASP:OD1	1:J:349:LEU:N	2.37	0.58
1:K:99:PHE:O	1:K:105:HIS:HE1	1.87	0.58
1:K:229:LEU:HD22	1:K:233:GLU:HB3	1.84	0.58
1:K:348:ASP:OD1	1:K:349:LEU:N	2.37	0.58
1:L:511:HIS:CD2	1:b:218:PHE:HB2	2.39	0.58
1:Q:98:ASN:ND2	1:Q:175:ASP:OD1	2.34	0.58
1:Q:491:ARG:O	1:Q:492:ARG:NH1	2.35	0.58
1:S:98:ASN:ND2	1:S:175:ASP:OD1	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:295:THR:HG23	1:T:380:GLN:HB3	1.84	0.58
1:U:170:HIS:CD2	1:U:171:PRO:HD2	2.38	0.58
1:W:229:LEU:HD22	1:W:233:GLU:HB3	1.84	0.58
1:d:170:HIS:CD2	1:d:171:PRO:HD2	2.38	0.58
1:e:99:PHE:O	1:e:105:HIS:HE1	1.87	0.58
1:g:229:LEU:HD22	1:g:233:GLU:HB3	1.85	0.58
1:n:170:HIS:CD2	1:n:171:PRO:HD2	2.38	0.58
1:n:491:ARG:O	1:n:492:ARG:NH1	2.35	0.58
1:s:99:PHE:O	1:s:105:HIS:HE1	1.87	0.58
1:t:294:MET:HE1	1:u:299:LEU:HD11	1.86	0.58
1:u:229:LEU:HD22	1:u:233:GLU:HB3	1.84	0.58
1:1:98:ASN:ND2	1:1:175:ASP:OD1	2.34	0.58
1:1:99:PHE:O	1:1:105:HIS:HE1	1.87	0.58
1:2:170:HIS:CD2	1:2:171:PRO:HD2	2.38	0.58
1:2:348:ASP:OD1	1:2:349:LEU:N	2.37	0.58
1:4:302:ALA:O	1:4:351:TYR:OH	2.15	0.58
1:8:98:ASN:ND2	1:8:175:ASP:OD1	2.34	0.58
1:B:491:ARG:O	1:B:492:ARG:NH1	2.35	0.58
1:J:229:LEU:HD22	1:J:233:GLU:HB3	1.84	0.58
1:M:295:THR:HG23	1:M:380:GLN:HB3	1.84	0.58
1:R:538:LEU:O	1:S:418:LYS:NZ	2.36	0.58
1:U:99:PHE:O	1:U:105:HIS:HE1	1.87	0.58
1:Z:229:LEU:HD22	1:Z:233:GLU:HB3	1.84	0.58
1:c:170:HIS:CD2	1:c:171:PRO:HD2	2.38	0.58
1:d:491:ARG:O	1:d:492:ARG:NH1	2.36	0.58
1:h:170:HIS:CD2	1:h:171:PRO:HD2	2.38	0.58
1:h:295:THR:HG23	1:h:380:GLN:HB3	1.84	0.58
1:m:295:THR:HG23	1:m:380:GLN:HB3	1.84	0.58
1:o:99:PHE:O	1:o:105:HIS:HE1	1.87	0.58
1:x:491:ARG:O	1:x:492:ARG:NH1	2.35	0.58
1:1:170:HIS:CD2	1:1:171:PRO:HD2	2.38	0.58
1:2:229:LEU:HD22	1:2:233:GLU:HB3	1.84	0.58
1:4:99:PHE:O	1:4:105:HIS:HE1	1.87	0.58
1:4:229:LEU:HD22	1:4:233:GLU:HB3	1.84	0.58
1:6:229:LEU:HD22	1:6:233:GLU:HB3	1.84	0.58
1:8:229:LEU:HD22	1:8:233:GLU:HB3	1.84	0.58
1:A:511:HIS:CD2	1:E:218:PHE:HB2	2.39	0.58
1:B:170:HIS:CD2	1:B:171:PRO:HD2	2.38	0.58
1:C:229:LEU:HD22	1:C:233:GLU:HB3	1.85	0.58
1:C:299:LEU:HD11	1:M:294:MET:HE1	1.86	0.58
1:D:99:PHE:O	1:D:105:HIS:HE1	1.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:229:LEU:HD11	1:J:235:THR:HG23	1.86	0.58
1:M:98:ASN:ND2	1:M:175:ASP:OD1	2.34	0.58
1:M:170:HIS:CD2	1:M:171:PRO:HD2	2.38	0.58
1:N:229:LEU:HD11	1:N:235:THR:HG23	1.86	0.58
1:T:99:PHE:O	1:T:105:HIS:HE1	1.87	0.58
1:T:218:PHE:HB2	1:i:511:HIS:CD2	2.38	0.58
1:T:294:MET:HE1	1:d:299:LEU:HD11	1.86	0.58
1:U:229:LEU:HD11	1:U:235:THR:HG23	1.86	0.58
1:X:99:PHE:O	1:X:105:HIS:HE1	1.87	0.58
1:Y:170:HIS:CD2	1:Y:171:PRO:HD2	2.38	0.58
1:Y:295:THR:HG23	1:Y:380:GLN:HB3	1.84	0.58
1:Z:229:LEU:HD11	1:Z:235:THR:HG23	1.86	0.58
1:b:295:THR:HG23	1:b:380:GLN:HB3	1.84	0.58
1:d:295:THR:HG23	1:d:380:GLN:HB3	1.84	0.58
1:e:491:ARG:O	1:e:492:ARG:NH1	2.35	0.58
1:g:99:PHE:O	1:g:105:HIS:HE1	1.87	0.58
1:g:299:LEU:HD11	1:h:294:MET:HE1	1.86	0.58
1:g:511:HIS:CD2	1:l:218:PHE:HB2	2.39	0.58
1:l:229:LEU:HD11	1:l:235:THR:HG23	1.86	0.58
1:m:99:PHE:O	1:m:105:HIS:HE1	1.87	0.58
1:n:99:PHE:O	1:n:105:HIS:HE1	1.87	0.58
1:q:538:LEU:O	1:r:418:LYS:NZ	2.36	0.58
1:u:348:ASP:OD1	1:u:349:LEU:N	2.37	0.58
1:v:511:HIS:CD2	1:w:218:PHE:HB2	2.39	0.58
1:x:98:ASN:ND2	1:x:175:ASP:OD1	2.34	0.58
1:x:229:LEU:HD11	1:x:235:THR:HG23	1.86	0.58
1:2:229:LEU:HD11	1:2:235:THR:HG23	1.86	0.58
1:7:170:HIS:CD2	1:7:171:PRO:HD2	2.38	0.58
1:A:99:PHE:O	1:A:105:HIS:HE1	1.87	0.58
1:B:218:PHE:HB2	1:C:511:HIS:CD2	2.39	0.58
1:B:229:LEU:HD11	1:B:235:THR:HG23	1.86	0.58
1:B:294:MET:HE1	1:J:299:LEU:HD11	1.86	0.58
1:C:99:PHE:O	1:C:105:HIS:HE1	1.87	0.58
1:C:229:LEU:HD11	1:C:235:THR:HG23	1.86	0.58
1:F:99:PHE:O	1:F:105:HIS:HE1	1.87	0.58
1:I:348:ASP:OD1	1:I:349:LEU:N	2.37	0.58
1:L:170:HIS:CD2	1:L:171:PRO:HD2	2.38	0.58
1:O:229:LEU:HD11	1:O:235:THR:HG23	1.86	0.58
1:Q:229:LEU:HD11	1:Q:235:THR:HG23	1.86	0.58
1:U:348:ASP:OD1	1:U:349:LEU:N	2.37	0.58
1:V:99:PHE:O	1:V:105:HIS:HE1	1.87	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:229:LEU:HD11	1:b:235:THR:HG23	1.86	0.58
1:c:218:PHE:HB2	1:s:511:HIS:CD2	2.38	0.58
1:d:99:PHE:O	1:d:105:HIS:HE1	1.87	0.58
1:e:170:HIS:CD2	1:e:171:PRO:HD2	2.38	0.58
1:f:229:LEU:HD11	1:f:235:THR:HG23	1.86	0.58
1:f:295:THR:HG23	1:f:380:GLN:HB3	1.84	0.58
1:g:218:PHE:HB2	1:k:511:HIS:CD2	2.38	0.58
1:g:229:LEU:HD11	1:g:235:THR:HG23	1.86	0.58
1:h:98:ASN:ND2	1:h:175:ASP:OD1	2.34	0.58
1:i:229:LEU:HD11	1:i:235:THR:HG23	1.86	0.58
1:k:99:PHE:O	1:k:105:HIS:HE1	1.87	0.58
1:k:218:PHE:HB2	1:w:511:HIS:CD2	2.39	0.58
1:m:294:MET:HE1	1:n:299:LEU:HD11	1.86	0.58
1:p:99:PHE:O	1:p:105:HIS:HE1	1.87	0.58
1:s:229:LEU:HD11	1:s:235:THR:HG23	1.86	0.58
1:s:348:ASP:OD1	1:s:349:LEU:N	2.37	0.58
1:u:295:THR:HG23	1:u:380:GLN:HB3	1.84	0.58
1:w:299:LEU:HD11	1:y:294:MET:HE1	1.86	0.58
1:x:229:LEU:HD22	1:x:233:GLU:HB3	1.84	0.58
1:1:294:MET:HE1	1:2:299:LEU:HD11	1.86	0.58
1:7:295:THR:HG23	1:7:380:GLN:HB3	1.84	0.58
1:8:229:LEU:HD11	1:8:235:THR:HG23	1.86	0.58
1:H:294:MET:HE1	1:W:299:LEU:HD11	1.86	0.58
1:J:511:HIS:CD2	1:a:218:PHE:HB2	2.39	0.58
1:K:229:LEU:HD11	1:K:235:THR:HG23	1.86	0.58
1:K:294:MET:HE1	1:a:299:LEU:HD11	1.86	0.58
1:N:511:HIS:CD2	1:m:218:PHE:HB2	2.38	0.58
1:Q:229:LEU:HD22	1:Q:233:GLU:HB3	1.84	0.58
1:S:229:LEU:HD11	1:S:235:THR:HG23	1.86	0.58
1:T:511:HIS:CD2	1:U:218:PHE:HB2	2.38	0.58
1:W:491:ARG:O	1:W:492:ARG:NH1	2.35	0.58
1:c:491:ARG:O	1:c:492:ARG:NH1	2.35	0.58
1:g:170:HIS:CD2	1:g:171:PRO:HD2	2.38	0.58
1:k:318:VAL:HG12	1:k:334:GLY:HA3	1.86	0.58
1:n:295:THR:HG23	1:n:380:GLN:HB3	1.84	0.58
1:p:229:LEU:HD22	1:p:233:GLU:HB3	1.85	0.58
1:t:511:HIS:CD2	1:6:218:PHE:HB2	2.39	0.58
1:u:511:HIS:CD2	1:2:218:PHE:HB2	2.39	0.58
1:v:99:PHE:O	1:v:105:HIS:HE1	1.87	0.58
1:y:99:PHE:O	1:y:105:HIS:HE1	1.87	0.58
1:z:170:HIS:CD2	1:z:171:PRO:HD2	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:229:LEU:HD11	1:1:235:THR:HG23	1.86	0.58
1:3:299:LEU:HD11	1:4:294:MET:HE1	1.86	0.58
1:5:294:MET:HE1	1:6:299:LEU:HD11	1.86	0.58
1:7:348:ASP:OD1	1:7:349:LEU:N	2.37	0.58
1:A:318:VAL:HG12	1:A:334:GLY:HA3	1.86	0.57
1:C:218:PHE:HB2	1:D:511:HIS:CD2	2.38	0.57
1:D:218:PHE:HB2	1:E:511:HIS:CD2	2.39	0.57
1:D:299:LEU:HD11	1:P:294:MET:HE1	1.86	0.57
1:D:318:VAL:HG12	1:D:334:GLY:HA3	1.86	0.57
1:E:299:LEU:HD11	1:F:294:MET:HE1	1.86	0.57
1:F:511:HIS:CD2	1:G:218:PHE:HB2	2.39	0.57
1:G:249:GLU:HB3	1:G:536:LYS:HD3	1.86	0.57
1:G:511:HIS:CD2	1:W:218:PHE:HB2	2.39	0.57
1:I:295:THR:HG23	1:I:380:GLN:HB3	1.84	0.57
1:I:511:HIS:CD2	1:J:218:PHE:HB2	2.39	0.57
1:K:302:ALA:O	1:K:351:TYR:OH	2.15	0.57
1:N:170:HIS:CD2	1:N:171:PRO:HD2	2.38	0.57
1:N:294:MET:HE1	1:P:299:LEU:HD11	1.86	0.57
1:P:99:PHE:O	1:P:105:HIS:HE1	1.87	0.57
1:S:511:HIS:CD2	1:d:218:PHE:HB2	2.39	0.57
1:T:249:GLU:HB3	1:T:536:LYS:HD3	1.86	0.57
1:X:511:HIS:CD2	1:Y:218:PHE:HB2	2.39	0.57
1:Y:348:ASP:OD1	1:Y:349:LEU:N	2.37	0.57
1:b:98:ASN:ND2	1:b:175:ASP:OD1	2.34	0.57
1:i:170:HIS:CD2	1:i:171:PRO:HD2	2.38	0.57
1:j:294:MET:HE1	1:k:299:LEU:HD11	1.86	0.57
1:l:99:PHE:O	1:l:105:HIS:HE1	1.87	0.57
1:m:249:GLU:HB3	1:m:536:LYS:HD3	1.86	0.57
1:t:218:PHE:HB2	1:y:511:HIS:CD2	2.39	0.57
1:z:229:LEU:HD11	1:z:235:THR:HG23	1.86	0.57
1:z:299:LEU:HD11	1:2:294:MET:HE1	1.86	0.57
1:2:511:HIS:CD2	1:3:218:PHE:HB2	2.39	0.57
1:4:229:LEU:HD11	1:4:235:THR:HG23	1.86	0.57
1:5:299:LEU:HD11	1:7:294:MET:HE1	1.86	0.57
1:6:318:VAL:HG12	1:6:334:GLY:HA3	1.86	0.57
1:6:491:ARG:O	1:6:492:ARG:NH1	2.35	0.57
1:C:170:HIS:CD2	1:C:171:PRO:HD2	2.38	0.57
1:H:299:LEU:HD11	1:Y:294:MET:HE1	1.86	0.57
1:I:229:LEU:HD11	1:I:235:THR:HG23	1.86	0.57
1:J:294:MET:HE1	1:L:299:LEU:HD11	1.86	0.57
1:L:229:LEU:HD11	1:L:235:THR:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:299:LEU:HD11	1:n:294:MET:HE1	1.86	0.57
1:R:318:VAL:HG12	1:R:334:GLY:HA3	1.87	0.57
1:V:229:LEU:HD22	1:V:233:GLU:HB3	1.85	0.57
1:W:318:VAL:HG12	1:W:334:GLY:HA3	1.86	0.57
1:b:491:ARG:O	1:b:492:ARG:NH1	2.35	0.57
1:d:294:MET:HE1	1:l:299:LEU:HD11	1.86	0.57
1:i:294:MET:HE1	1:j:299:LEU:HD11	1.86	0.57
1:j:99:PHE:O	1:j:105:HIS:HE1	1.87	0.57
1:k:229:LEU:HD11	1:k:235:THR:HG23	1.86	0.57
1:q:318:VAL:HG12	1:q:334:GLY:HA3	1.86	0.57
1:r:229:LEU:HD11	1:r:235:THR:HG23	1.86	0.57
1:r:294:MET:HE1	1:s:299:LEU:HD11	1.85	0.57
1:t:249:GLU:HB3	1:t:536:LYS:HD3	1.86	0.57
1:t:299:LEU:HD11	1:v:294:MET:HE1	1.86	0.57
1:u:229:LEU:HD11	1:u:235:THR:HG23	1.86	0.57
1:v:318:VAL:HG12	1:v:334:GLY:HA3	1.86	0.57
1:z:218:PHE:HB2	1:4:511:HIS:CD2	2.38	0.57
1:3:491:ARG:O	1:3:492:ARG:NH1	2.35	0.57
1:6:99:PHE:O	1:6:105:HIS:HE1	1.87	0.57
1:8:318:VAL:HG12	1:8:334:GLY:HA3	1.86	0.57
1:A:229:LEU:HD11	1:A:235:THR:HG23	1.86	0.57
1:A:294:MET:HE1	1:G:299:LEU:HD11	1.86	0.57
1:K:511:HIS:CD2	1:L:218:PHE:HB2	2.38	0.57
1:O:99:PHE:O	1:O:105:HIS:HE1	1.87	0.57
1:O:294:MET:HE1	1:m:299:LEU:HD11	1.86	0.57
1:O:511:HIS:CD2	1:P:218:PHE:HB2	2.39	0.57
1:T:299:LEU:HD11	1:l:294:MET:HE1	1.86	0.57
1:U:249:GLU:HB3	1:U:536:LYS:HD3	1.86	0.57
1:U:511:HIS:CD2	1:e:218:PHE:HB2	2.39	0.57
1:W:99:PHE:O	1:W:105:HIS:HE1	1.87	0.57
1:Z:318:VAL:HG12	1:Z:334:GLY:HA3	1.87	0.57
1:a:491:ARG:O	1:a:492:ARG:NH1	2.35	0.57
1:m:229:LEU:HD11	1:m:235:THR:HG23	1.86	0.57
1:n:218:PHE:HB2	1:r:511:HIS:CD2	2.39	0.57
1:o:511:HIS:CD2	1:7:218:PHE:HB2	2.39	0.57
1:r:99:PHE:O	1:r:105:HIS:HE1	1.87	0.57
1:s:249:GLU:HB3	1:s:536:LYS:HD3	1.86	0.57
1:v:229:LEU:HD11	1:v:235:THR:HG23	1.86	0.57
1:D:229:LEU:HD11	1:D:235:THR:HG23	1.86	0.57
1:F:348:ASP:OD1	1:F:349:LEU:N	2.37	0.57
1:I:318:VAL:HG12	1:I:334:GLY:HA3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:229:LEU:HD11	1:M:235:THR:HG23	1.86	0.57
1:S:99:PHE:O	1:S:105:HIS:HE1	1.87	0.57
1:T:229:LEU:HD11	1:T:235:THR:HG23	1.86	0.57
1:U:318:VAL:HG12	1:U:334:GLY:HA3	1.86	0.57
1:V:299:LEU:HD11	1:X:294:MET:HE1	1.86	0.57
1:V:348:ASP:OD1	1:V:349:LEU:N	2.37	0.57
1:X:229:LEU:HD11	1:X:235:THR:HG23	1.86	0.57
1:a:229:LEU:HD22	1:a:233:GLU:HB3	1.84	0.57
1:f:98:ASN:ND2	1:f:175:ASP:OD1	2.34	0.57
1:f:491:ARG:O	1:f:492:ARG:NH1	2.35	0.57
1:h:229:LEU:HD11	1:h:235:THR:HG23	1.86	0.57
1:j:218:PHE:HB2	1:l:511:HIS:CD2	2.39	0.57
1:o:229:LEU:HD11	1:o:235:THR:HG23	1.86	0.57
1:o:294:MET:HE1	1:p:299:LEU:HD11	1.86	0.57
1:q:295:THR:HG23	1:q:380:GLN:HB3	1.84	0.57
1:s:318:VAL:HG12	1:s:334:GLY:HA3	1.87	0.57
1:u:318:VAL:HG12	1:u:334:GLY:HA3	1.87	0.57
1:y:348:ASP:OD1	1:y:349:LEU:N	2.37	0.57
1:3:511:HIS:CD2	1:8:218:PHE:HB2	2.39	0.57
1:B:538:LEU:O	1:J:418:LYS:NZ	2.36	0.57
1:E:348:ASP:OD1	1:E:349:LEU:N	2.37	0.57
1:F:229:LEU:HD11	1:F:235:THR:HG23	1.86	0.57
1:H:418:LYS:NZ	1:Y:538:LEU:O	2.37	0.57
1:J:491:ARG:O	1:J:492:ARG:NH1	2.35	0.57
1:M:229:LEU:HD22	1:M:233:GLU:HB3	1.84	0.57
1:M:418:LYS:NZ	1:b:538:LEU:O	2.37	0.57
1:P:249:GLU:HB3	1:P:536:LYS:HD3	1.86	0.57
1:Q:99:PHE:O	1:Q:105:HIS:HE1	1.87	0.57
1:X:491:ARG:O	1:X:492:ARG:NH1	2.35	0.57
1:Z:218:PHE:HB2	1:a:511:HIS:CD2	2.39	0.57
1:b:511:HIS:CD2	1:o:218:PHE:HB2	2.39	0.57
1:j:249:GLU:HB3	1:j:536:LYS:HD3	1.86	0.57
1:q:491:ARG:O	1:q:492:ARG:NH1	2.35	0.57
1:x:99:PHE:O	1:x:105:HIS:HE1	1.87	0.57
1:3:229:LEU:HD22	1:3:233:GLU:HB3	1.84	0.57
1:A:418:LYS:NZ	1:I:538:LEU:O	2.38	0.57
1:E:318:VAL:HG12	1:E:334:GLY:HA3	1.86	0.57
1:F:249:GLU:HB3	1:F:536:LYS:HD3	1.86	0.57
1:K:299:LEU:HD11	1:8:294:MET:HE1	1.86	0.57
1:L:99:PHE:O	1:L:105:HIS:HE1	1.87	0.57
1:M:218:PHE:HB2	1:c:511:HIS:CD2	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:99:PHE:O	1:R:105:HIS:HE1	1.87	0.57
1:R:295:THR:HG23	1:R:380:GLN:HB3	1.84	0.57
1:V:491:ARG:O	1:V:492:ARG:NH1	2.35	0.57
1:X:218:PHE:HB2	1:f:511:HIS:CD2	2.39	0.57
1:Z:294:MET:HE1	1:4:299:LEU:HD11	1.86	0.57
1:c:318:VAL:HG12	1:c:334:GLY:HA3	1.86	0.57
1:d:229:LEU:HD11	1:d:235:THR:HG23	1.86	0.57
1:d:348:ASP:OD1	1:d:349:LEU:N	2.37	0.57
1:e:318:VAL:HG12	1:e:334:GLY:HA3	1.86	0.57
1:f:538:LEU:O	1:h:418:LYS:NZ	2.37	0.57
1:h:229:LEU:HD22	1:h:233:GLU:HB3	1.84	0.57
1:l:218:PHE:HB2	1:n:511:HIS:CD2	2.39	0.57
1:o:491:ARG:O	1:o:492:ARG:NH1	2.35	0.57
1:p:318:VAL:HG12	1:p:334:GLY:HA3	1.87	0.57
1:p:348:ASP:OD1	1:p:349:LEU:N	2.37	0.57
1:p:491:ARG:O	1:p:492:ARG:NH1	2.35	0.57
1:w:318:VAL:HG12	1:w:334:GLY:HA3	1.87	0.57
1:w:348:ASP:OD1	1:w:349:LEU:N	2.37	0.57
1:y:229:LEU:HD11	1:y:235:THR:HG23	1.86	0.57
1:y:249:GLU:HB3	1:y:536:LYS:HD3	1.86	0.57
1:1:538:LEU:O	1:2:418:LYS:NZ	2.36	0.57
1:5:418:LYS:NZ	1:7:538:LEU:O	2.37	0.57
1:6:538:LEU:O	1:7:418:LYS:NZ	2.38	0.57
1:B:318:VAL:HG12	1:B:334:GLY:HA3	1.87	0.57
1:I:99:PHE:O	1:I:105:HIS:HE1	1.87	0.57
1:J:99:PHE:O	1:J:105:HIS:HE1	1.87	0.57
1:M:318:VAL:HG12	1:M:334:GLY:HA3	1.87	0.57
1:O:218:PHE:HB2	1:d:511:HIS:CD2	2.39	0.57
1:R:491:ARG:O	1:R:492:ARG:NH1	2.35	0.57
1:V:318:VAL:HG12	1:V:334:GLY:HA3	1.87	0.57
1:V:538:LEU:O	1:e:418:LYS:NZ	2.38	0.57
1:W:229:LEU:HD11	1:W:235:THR:HG23	1.86	0.57
1:W:538:LEU:O	1:Y:418:LYS:NZ	2.38	0.57
1:d:318:VAL:HG12	1:d:334:GLY:HA3	1.86	0.57
1:e:511:HIS:CD2	1:h:218:PHE:HB2	2.39	0.57
1:i:318:VAL:HG12	1:i:334:GLY:HA3	1.86	0.57
1:m:318:VAL:HG12	1:m:334:GLY:HA3	1.86	0.57
1:n:229:LEU:HD11	1:n:235:THR:HG23	1.86	0.57
1:n:318:VAL:HG12	1:n:334:GLY:HA3	1.86	0.57
1:n:348:ASP:OD1	1:n:349:LEU:N	2.37	0.57
1:q:99:PHE:O	1:q:105:HIS:HE1	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:538:LEU:O	1:s:418:LYS:NZ	2.37	0.57
1:u:538:LEU:O	1:v:418:LYS:NZ	2.38	0.57
1:z:99:PHE:O	1:z:105:HIS:HE1	1.87	0.57
1:1:318:VAL:HG12	1:1:334:GLY:HA3	1.87	0.57
1:6:229:LEU:HD11	1:6:235:THR:HG23	1.86	0.57
1:C:294:MET:HE1	1:b:299:LEU:HD11	1.86	0.57
1:E:294:MET:HE1	1:Q:299:LEU:HD11	1.86	0.57
1:F:318:VAL:HG12	1:F:334:GLY:HA3	1.86	0.57
1:G:538:LEU:O	1:I:418:LYS:NZ	2.38	0.57
1:H:218:PHE:HB2	1:Z:511:HIS:CD2	2.39	0.57
1:H:229:LEU:HD11	1:H:235:THR:HG23	1.86	0.57
1:K:538:LEU:O	1:a:418:LYS:NZ	2.38	0.57
1:N:318:VAL:HG12	1:N:334:GLY:HA3	1.86	0.57
1:T:318:VAL:HG12	1:T:334:GLY:HA3	1.87	0.57
1:f:299:LEU:HD11	1:g:294:MET:HE1	1.86	0.57
1:h:318:VAL:HG12	1:h:334:GLY:HA3	1.87	0.57
1:t:538:LEU:O	1:u:418:LYS:NZ	2.38	0.57
1:u:99:PHE:O	1:u:105:HIS:HE1	1.87	0.57
1:w:294:MET:HE1	1:x:299:LEU:HD11	1.86	0.57
1:2:99:PHE:O	1:2:105:HIS:HE1	1.87	0.57
1:2:491:ARG:O	1:2:492:ARG:NH1	2.35	0.57
1:5:229:LEU:HD11	1:5:235:THR:HG23	1.86	0.57
1:5:318:VAL:HG12	1:5:334:GLY:HA3	1.86	0.57
1:N:99:PHE:O	1:N:105:HIS:HE1	1.87	0.57
1:X:249:GLU:HB3	1:X:536:LYS:HD3	1.86	0.57
1:c:418:LYS:NZ	1:p:538:LEU:O	2.38	0.57
1:i:99:PHE:O	1:i:105:HIS:HE1	1.87	0.57
1:o:249:GLU:HB3	1:o:536:LYS:HD3	1.86	0.57
1:o:538:LEU:O	1:p:418:LYS:NZ	2.38	0.57
1:q:348:ASP:OD1	1:q:349:LEU:N	2.37	0.57
1:x:249:GLU:HB3	1:x:536:LYS:HD3	1.86	0.57
1:x:294:MET:HE1	1:y:299:LEU:HD11	1.86	0.57
1:y:318:VAL:HG12	1:y:334:GLY:HA3	1.86	0.57
1:1:249:GLU:HB3	1:1:536:LYS:HD3	1.86	0.57
1:3:418:LYS:NZ	1:4:538:LEU:O	2.38	0.57
1:6:294:MET:HE1	1:7:299:LEU:HD11	1.86	0.57
1:G:491:ARG:O	1:G:492:ARG:NH1	2.35	0.57
1:H:249:GLU:HB3	1:H:536:LYS:HD3	1.86	0.57
1:H:318:VAL:HG12	1:H:334:GLY:HA3	1.86	0.57
1:N:249:GLU:HB3	1:N:536:LYS:HD3	1.86	0.57
1:Q:249:GLU:HB3	1:Q:536:LYS:HD3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:249:GLU:HB3	1:R:536:LYS:HD3	1.86	0.57
1:R:294:MET:HE1	1:S:299:LEU:HD11	1.86	0.57
1:V:294:MET:HE1	1:e:299:LEU:HD11	1.86	0.57
1:W:294:MET:HE1	1:Y:299:LEU:HD11	1.86	0.57
1:c:299:LEU:HD11	1:p:294:MET:HE1	1.86	0.57
1:h:348:ASP:OD1	1:h:349:LEU:N	2.37	0.57
1:i:249:GLU:HB3	1:i:536:LYS:HD3	1.86	0.57
1:q:249:GLU:HB3	1:q:536:LYS:HD3	1.86	0.57
1:q:511:HIS:CD2	1:y:218:PHE:HB2	2.40	0.57
1:r:318:VAL:HG12	1:r:334:GLY:HA3	1.86	0.57
1:3:249:GLU:HB3	1:3:536:LYS:HD3	1.86	0.57
1:5:249:GLU:HB3	1:5:536:LYS:HD3	1.86	0.57
1:7:249:GLU:HB3	1:7:536:LYS:HD3	1.86	0.57
1:A:249:GLU:HB3	1:A:536:LYS:HD3	1.86	0.56
1:B:249:GLU:HB3	1:B:536:LYS:HD3	1.86	0.56
1:F:299:LEU:HD11	1:Q:294:MET:HE1	1.86	0.56
1:H:348:ASP:OD1	1:H:349:LEU:N	2.37	0.56
1:I:249:GLU:HB3	1:I:536:LYS:HD3	1.86	0.56
1:L:348:ASP:OD1	1:L:349:LEU:N	2.37	0.56
1:M:299:LEU:HD11	1:b:294:MET:HE1	1.86	0.56
1:O:318:VAL:HG12	1:O:334:GLY:HA3	1.87	0.56
1:R:229:LEU:HD11	1:R:235:THR:HG23	1.86	0.56
1:R:348:ASP:OD1	1:R:349:LEU:N	2.37	0.56
1:V:418:LYS:NZ	1:X:538:LEU:O	2.38	0.56
1:Y:249:GLU:HB3	1:Y:536:LYS:HD3	1.86	0.56
1:a:249:GLU:HB3	1:a:536:LYS:HD3	1.86	0.56
1:h:249:GLU:HB3	1:h:536:LYS:HD3	1.86	0.56
1:l:318:VAL:HG12	1:l:334:GLY:HA3	1.87	0.56
1:n:249:GLU:HB3	1:n:536:LYS:HD3	1.86	0.56
1:q:294:MET:HE1	1:r:299:LEU:HD11	1.86	0.56
1:r:249:GLU:HB3	1:r:536:LYS:HD3	1.86	0.56
1:u:249:GLU:HB3	1:u:536:LYS:HD3	1.86	0.56
1:v:249:GLU:HB3	1:v:536:LYS:HD3	1.86	0.56
1:z:348:ASP:OD1	1:z:349:LEU:N	2.37	0.56
1:2:249:GLU:HB3	1:2:536:LYS:HD3	1.86	0.56
1:5:218:PHE:HB2	1:8:511:HIS:CD2	2.39	0.56
1:G:229:LEU:HD11	1:G:235:THR:HG23	1.86	0.56
1:G:318:VAL:HG12	1:G:334:GLY:HA3	1.86	0.56
1:K:418:LYS:NZ	1:8:538:LEU:O	2.37	0.56
1:M:249:GLU:HB3	1:M:536:LYS:HD3	1.86	0.56
1:M:348:ASP:OD1	1:M:349:LEU:N	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:318:VAL:HG12	1:Q:334:GLY:HA3	1.87	0.56
1:S:318:VAL:HG12	1:S:334:GLY:HA3	1.87	0.56
1:S:348:ASP:OD1	1:S:349:LEU:N	2.37	0.56
1:S:538:LEU:O	1:U:418:LYS:NZ	2.37	0.56
1:c:294:MET:HE1	1:o:299:LEU:HD11	1.86	0.56
1:e:348:ASP:OD1	1:e:349:LEU:N	2.37	0.56
1:p:229:LEU:HD11	1:p:235:THR:HG23	1.86	0.56
1:s:491:ARG:O	1:s:492:ARG:NH1	2.35	0.56
1:t:229:LEU:HD11	1:t:235:THR:HG23	1.86	0.56
1:5:348:ASP:OD1	1:5:349:LEU:N	2.37	0.56
1:A:299:LEU:HD11	1:I:294:MET:HE1	1.86	0.56
1:C:418:LYS:NZ	1:M:538:LEU:O	2.38	0.56
1:D:538:LEU:O	1:N:418:LYS:NZ	2.38	0.56
1:E:229:LEU:HD11	1:E:235:THR:HG23	1.86	0.56
1:E:418:LYS:NZ	1:F:538:LEU:O	2.38	0.56
1:F:218:PHE:HB2	1:R:511:HIS:CD2	2.40	0.56
1:J:249:GLU:HB3	1:J:536:LYS:HD3	1.86	0.56
1:L:249:GLU:HB3	1:L:536:LYS:HD3	1.86	0.56
1:N:538:LEU:O	1:P:418:LYS:NZ	2.37	0.56
1:S:249:GLU:HB3	1:S:536:LYS:HD3	1.86	0.56
1:S:294:MET:HE1	1:U:299:LEU:HD11	1.86	0.56
1:U:491:ARG:O	1:U:492:ARG:NH1	2.35	0.56
1:V:229:LEU:HD11	1:V:235:THR:HG23	1.86	0.56
1:X:299:LEU:HD11	1:e:294:MET:HE1	1.86	0.56
1:Y:318:VAL:HG12	1:Y:334:GLY:HA3	1.86	0.56
1:Z:538:LEU:O	1:4:418:LYS:NZ	2.37	0.56
1:a:99:PHE:O	1:a:105:HIS:HE1	1.87	0.56
1:a:294:MET:HE1	1:8:299:LEU:HD11	1.86	0.56
1:a:318:VAL:HG12	1:a:334:GLY:HA3	1.86	0.56
1:a:348:ASP:OD1	1:a:349:LEU:N	2.37	0.56
1:b:249:GLU:HB3	1:b:536:LYS:HD3	1.86	0.56
1:c:202:MET:HE1	1:s:500:ILE:HG21	1.87	0.56
1:c:348:ASP:OD1	1:c:349:LEU:N	2.37	0.56
1:d:249:GLU:HB3	1:d:536:LYS:HD3	1.86	0.56
1:f:249:GLU:HB3	1:f:536:LYS:HD3	1.86	0.56
1:f:294:MET:HE1	1:h:299:LEU:HD11	1.86	0.56
1:g:418:LYS:NZ	1:h:538:LEU:O	2.38	0.56
1:i:418:LYS:NZ	1:k:538:LEU:O	2.38	0.56
1:i:538:LEU:O	1:j:418:LYS:NZ	2.37	0.56
1:k:249:GLU:HB3	1:k:536:LYS:HD3	1.86	0.56
1:m:538:LEU:O	1:n:418:LYS:NZ	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:229:LEU:HD11	1:q:235:THR:HG23	1.86	0.56
1:r:348:ASP:OD1	1:r:349:LEU:N	2.37	0.56
1:t:318:VAL:HG12	1:t:334:GLY:HA3	1.86	0.56
1:t:418:LYS:NZ	1:v:538:LEU:O	2.38	0.56
1:t:491:ARG:O	1:t:492:ARG:NH1	2.35	0.56
1:u:294:MET:HE1	1:v:299:LEU:HD11	1.86	0.56
1:w:229:LEU:HD11	1:w:235:THR:HG23	1.86	0.56
1:x:318:VAL:HG12	1:x:334:GLY:HA3	1.87	0.56
1:z:249:GLU:HB3	1:z:536:LYS:HD3	1.86	0.56
1:2:318:VAL:HG12	1:2:334:GLY:HA3	1.86	0.56
1:3:318:VAL:HG12	1:3:334:GLY:HA3	1.86	0.56
1:5:538:LEU:O	1:6:418:LYS:NZ	2.37	0.56
1:6:249:GLU:HB3	1:6:536:LYS:HD3	1.86	0.56
1:A:348:ASP:OD1	1:A:349:LEU:N	2.37	0.56
1:H:538:LEU:O	1:W:418:LYS:NZ	2.38	0.56
1:W:249:GLU:HB3	1:W:536:LYS:HD3	1.86	0.56
1:X:418:LYS:NZ	1:e:538:LEU:O	2.37	0.56
1:Z:249:GLU:HB3	1:Z:536:LYS:HD3	1.86	0.56
1:c:249:GLU:HB3	1:c:536:LYS:HD3	1.86	0.56
1:c:538:LEU:O	1:o:418:LYS:NZ	2.37	0.56
1:e:249:GLU:HB3	1:e:536:LYS:HD3	1.86	0.56
1:p:249:GLU:HB3	1:p:536:LYS:HD3	1.86	0.56
1:3:348:ASP:OD1	1:3:349:LEU:N	2.37	0.56
1:A:538:LEU:O	1:G:418:LYS:NZ	2.38	0.56
1:J:318:VAL:HG12	1:J:334:GLY:HA3	1.86	0.56
1:O:418:LYS:NZ	1:n:538:LEU:O	2.38	0.56
1:V:249:GLU:HB3	1:V:536:LYS:HD3	1.86	0.56
1:X:318:VAL:HG12	1:X:334:GLY:HA3	1.87	0.56
1:Z:299:LEU:HD11	1:3:294:MET:HE1	1.86	0.56
1:a:229:LEU:HD11	1:a:235:THR:HG23	1.86	0.56
1:j:318:VAL:HG12	1:j:334:GLY:HA3	1.86	0.56
1:o:318:VAL:HG12	1:o:334:GLY:HA3	1.87	0.56
1:x:538:LEU:O	1:y:418:LYS:NZ	2.38	0.56
1:3:99:PHE:O	1:3:105:HIS:HE1	1.87	0.56
1:3:229:LEU:HD11	1:3:235:THR:HG23	1.86	0.56
1:7:318:VAL:HG12	1:7:334:GLY:HA3	1.86	0.56
1:8:249:GLU:HB3	1:8:536:LYS:HD3	1.86	0.56
1:D:249:GLU:HB3	1:D:536:LYS:HD3	1.86	0.56
1:F:418:LYS:NZ	1:Q:538:LEU:O	2.38	0.56
1:G:348:ASP:OD1	1:G:349:LEU:N	2.37	0.56
1:P:229:LEU:HD11	1:P:235:THR:HG23	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:318:VAL:HG12	1:P:334:GLY:HA3	1.86	0.56
1:R:418:LYS:NZ	1:U:538:LEU:O	2.38	0.56
1:v:348:ASP:OD1	1:v:349:LEU:N	2.37	0.56
1:z:418:LYS:NZ	1:2:538:LEU:O	2.37	0.56
1:z:538:LEU:O	1:1:418:LYS:NZ	2.38	0.56
1:4:249:GLU:HB3	1:4:536:LYS:HD3	1.86	0.56
1:A:153:ALA:HA	1:B:134:GLN:NE2	2.21	0.56
1:A:218:PHE:HB2	1:B:511:HIS:CD2	2.40	0.56
1:B:202:MET:HE1	1:C:500:ILE:HG21	1.88	0.56
1:B:418:LYS:NZ	1:L:538:LEU:O	2.38	0.56
1:J:538:LEU:O	1:L:418:LYS:NZ	2.37	0.56
1:K:249:GLU:HB3	1:K:536:LYS:HD3	1.86	0.56
1:N:134:GLN:NE2	1:m:153:ALA:HA	2.21	0.56
1:T:153:ALA:HA	1:i:134:GLN:NE2	2.21	0.56
1:W:348:ASP:OD1	1:W:349:LEU:N	2.37	0.56
1:d:538:LEU:O	1:l:418:LYS:NZ	2.38	0.56
1:j:229:LEU:HD11	1:j:235:THR:HG23	1.86	0.56
1:w:249:GLU:HB3	1:w:536:LYS:HD3	1.86	0.56
1:w:538:LEU:O	1:x:418:LYS:NZ	2.38	0.56
1:E:249:GLU:HB3	1:E:536:LYS:HD3	1.86	0.56
1:K:318:VAL:HG12	1:K:334:GLY:HA3	1.87	0.56
1:L:500:ILE:HG21	1:b:202:MET:HE1	1.88	0.56
1:Y:500:ILE:HG21	1:4:202:MET:HE1	1.88	0.56
1:g:202:MET:HE1	1:k:500:ILE:HG21	1.88	0.56
1:g:500:ILE:HG21	1:1:202:MET:HE1	1.88	0.56
1:t:348:ASP:OD1	1:t:349:LEU:N	2.37	0.56
1:v:153:ALA:HA	1:1:134:GLN:NE2	2.21	0.56
1:v:218:PHE:HB2	1:1:511:HIS:CD2	2.40	0.56
1:4:318:VAL:HG12	1:4:334:GLY:HA3	1.87	0.56
1:5:202:MET:HE1	1:8:500:ILE:HG21	1.88	0.56
1:6:348:ASP:OD1	1:6:349:LEU:N	2.37	0.56
1:D:294:MET:HE1	1:N:299:LEU:HD11	1.86	0.56
1:E:538:LEU:O	1:Q:418:LYS:NZ	2.38	0.56
1:H:202:MET:HE1	1:Z:500:ILE:HG21	1.88	0.56
1:K:202:MET:HE1	1:7:500:ILE:HG21	1.88	0.56
1:L:318:VAL:HG12	1:L:334:GLY:HA3	1.86	0.56
1:O:538:LEU:O	1:m:418:LYS:NZ	2.37	0.56
1:T:409:ILE:H	1:T:530:ILE:HG12	1.71	0.56
1:X:153:ALA:HA	1:f:134:GLN:NE2	2.21	0.56
1:b:134:GLN:NE2	1:o:153:ALA:HA	2.21	0.56
1:b:318:VAL:HG12	1:b:334:GLY:HA3	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:299:LEU:HD11	1:k:294:MET:HE1	1.86	0.56
1:m:409:ILE:H	1:m:530:ILE:HG12	1.71	0.56
1:q:500:ILE:HG21	1:y:202:MET:HE1	1.88	0.56
1:x:348:ASP:OD1	1:x:349:LEU:N	2.37	0.56
1:z:318:VAL:HG12	1:z:334:GLY:HA3	1.87	0.56
1:A:491:ARG:O	1:A:492:ARG:NH1	2.35	0.56
1:C:202:MET:HE1	1:D:500:ILE:HG21	1.88	0.56
1:F:134:GLN:NE2	1:G:153:ALA:HA	2.21	0.56
1:I:409:ILE:H	1:I:530:ILE:HG12	1.71	0.56
1:S:500:ILE:HG21	1:d:202:MET:HE1	1.88	0.56
1:T:418:LYS:NZ	1:l:538:LEU:O	2.37	0.56
1:V:153:ALA:HA	1:W:134:GLN:NE2	2.21	0.56
1:f:202:MET:HE1	1:z:500:ILE:HG21	1.88	0.56
1:f:318:VAL:HG12	1:f:334:GLY:HA3	1.86	0.56
1:h:500:ILE:HG21	1:i:202:MET:HE1	1.88	0.56
1:m:500:ILE:HG21	1:s:202:MET:HE1	1.88	0.56
1:p:153:ALA:HA	1:6:134:GLN:NE2	2.21	0.56
1:t:153:ALA:HA	1:y:134:GLN:NE2	2.21	0.56
1:v:491:ARG:O	1:v:492:ARG:NH1	2.35	0.56
1:F:202:MET:HE1	1:R:500:ILE:HG21	1.88	0.55
1:I:134:GLN:NE2	1:J:153:ALA:HA	2.21	0.55
1:M:500:ILE:HG21	1:N:202:MET:HE1	1.89	0.55
1:N:409:ILE:H	1:N:530:ILE:HG12	1.71	0.55
1:O:134:GLN:NE2	1:P:153:ALA:HA	2.22	0.55
1:Q:134:GLN:NE2	1:S:153:ALA:HA	2.21	0.55
1:Q:348:ASP:OD1	1:Q:349:LEU:N	2.37	0.55
1:T:500:ILE:HG21	1:U:202:MET:HE1	1.88	0.55
1:g:153:ALA:HA	1:k:134:GLN:NE2	2.21	0.55
1:j:491:ARG:O	1:j:492:ARG:NH1	2.35	0.55
1:n:202:MET:HE1	1:r:500:ILE:HG21	1.88	0.55
1:u:134:GLN:NE2	1:2:153:ALA:HA	2.21	0.55
1:u:409:ILE:H	1:u:530:ILE:HG12	1.71	0.55
1:1:409:ILE:H	1:1:530:ILE:HG12	1.71	0.55
1:6:409:ILE:H	1:6:530:ILE:HG12	1.71	0.55
1:B:348:ASP:OD1	1:B:349:LEU:N	2.37	0.55
1:B:409:ILE:H	1:B:530:ILE:HG12	1.71	0.55
1:R:202:MET:HE1	1:V:500:ILE:HG21	1.88	0.55
1:W:409:ILE:H	1:W:530:ILE:HG12	1.71	0.55
1:a:538:LEU:O	1:8:418:LYS:NZ	2.38	0.55
1:i:409:ILE:H	1:i:530:ILE:HG12	1.71	0.55
1:j: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:k:409:ILE:H	1:k:530:ILE:HG12	1.71	0.55
1:r:153:ALA:HA	1:x:134:GLN:NE2	2.21	0.55
1:C:153:ALA:HA	1:D:134:GLN:NE2	2.21	0.55
1:D:409:ILE:H	1:D:530:ILE:HG12	1.71	0.55
1:Z:418:LYS:NZ	1:3:538:LEU:O	2.38	0.55
1:g:318:VAL:HG12	1:g:334:GLY:HA3	1.87	0.55
1:p:500:ILE:HG21	1:q:202:MET:HE1	1.88	0.55
1:6:382:LEU:HD12	1:6:396:VAL:HG22	1.89	0.55
1:A:382:LEU:HD12	1:A:396:VAL:HG22	1.89	0.55
1:B:382:LEU:HD12	1:B:396:VAL:HG22	1.89	0.55
1:P:491:ARG:O	1:P:492:ARG:NH1	2.35	0.55
1:S:134:GLN:NE2	1:d:153:ALA:HA	2.22	0.55
1:U:500:ILE:HG21	1:e:202:MET:HE1	1.88	0.55
1:W:382:LEU:HD12	1:W:396:VAL:HG22	1.89	0.55
1:a:409:ILE:H	1:a:530:ILE:HG12	1.71	0.55
1:h:409:ILE:H	1:h:530:ILE:HG12	1.71	0.55
1:n:153:ALA:HA	1:r:134:GLN:NE2	2.22	0.55
1:r:202:MET:HE1	1:x:500:ILE:HG21	1.89	0.55
1:v:382:LEU:HD12	1:v:396:VAL:HG22	1.89	0.55
1:1:348:ASP:OD1	1:1:349:LEU:N	2.37	0.55
1:1:382:LEU:HD12	1:1:396:VAL:HG22	1.89	0.55
1:C:318:VAL:HG12	1:C:334:GLY:HA3	1.87	0.55
1:K:409:ILE:H	1:K:530:ILE:HG12	1.71	0.55
1:M:409:ILE:H	1:M:530:ILE:HG12	1.72	0.55
1:O:153:ALA:HA	1:d:134:GLN:NE2	2.22	0.55
1:O:409:ILE:H	1:O:530:ILE:HG12	1.72	0.55
1:Q:500:ILE:HG21	1:S:202:MET:HE1	1.89	0.55
1:X:134:GLN:NE2	1:Y:153:ALA:HA	2.22	0.55
1:l:153:ALA:HA	1:n:134:GLN:NE2	2.22	0.55
1:l:409:ILE:H	1:l:530:ILE:HG12	1.72	0.55
1:o:134:GLN:NE2	1:7:153:ALA:HA	2.22	0.55
1:v:409:ILE:H	1:v:530:ILE:HG12	1.71	0.55
1:3:409:ILE:H	1:3:530:ILE:HG12	1.71	0.55
1:5:382:LEU:HD12	1:5:396:VAL:HG22	1.89	0.55
1:C:249:GLU:HB3	1:C:536:LYS:HD3	1.86	0.55
1:D:382:LEU:HD12	1:D:396:VAL:HG22	1.89	0.55
1:G:134:GLN:NE2	1:W:153:ALA:HA	2.22	0.55
1:H:382:LEU:HD12	1:H:396:VAL:HG22	1.89	0.55
1:P:382:LEU:HD12	1:P:396:VAL:HG22	1.89	0.55
1:Q:409:ILE:H	1:Q:530:ILE:HG12	1.71	0.55
1:Z:382:LEU:HD12	1:Z:396:VAL:HG22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:382:LEU:HD12	1:j:396:VAL:HG22	1.89	0.55
1:k:153:ALA:HA	1:w:134:GLN:NE2	2.21	0.55
1:l:249:GLU:HB3	1:l:536:LYS:HD3	1.86	0.55
1:z:382:LEU:HD12	1:z:396:VAL:HG22	1.89	0.55
1:4:409:ILE:H	1:4:530:ILE:HG12	1.71	0.55
1:8:382:LEU:HD12	1:8:396:VAL:HG22	1.89	0.55
1:A:409:ILE:H	1:A:530:ILE:HG12	1.71	0.55
1:L:382:LEU:HD12	1:L:396:VAL:HG22	1.89	0.55
1:O:249:GLU:HB3	1:O:536:LYS:HD3	1.86	0.55
1:b:409:ILE:H	1:b:530:ILE:HG12	1.71	0.55
1:g:249:GLU:HB3	1:g:536:LYS:HD3	1.86	0.55
1:k:382:LEU:HD12	1:k:396:VAL:HG22	1.89	0.55
1:q:134:GLN:NE2	1:y:153:ALA:HA	2.21	0.55
1:t:134:GLN:NE2	1:6:153:ALA:HA	2.22	0.55
1:x:409:ILE:H	1:x:530:ILE:HG12	1.71	0.55
1:7:409:ILE:H	1:7:530:ILE:HG12	1.71	0.55
1:D:491:ARG:O	1:D:492:ARG:NH1	2.35	0.55
1:H:500:ILE:HG21	1:I:202:MET:HE1	1.88	0.55
1:K:134:GLN:NE2	1:L:153:ALA:HA	2.21	0.55
1:L:409:ILE:H	1:L:530:ILE:HG12	1.71	0.55
1:Q:410:THR:H	1:Q:413:ASN:ND2	2.05	0.55
1:R:409:ILE:H	1:R:530:ILE:HG12	1.71	0.55
1:S:491:ARG:O	1:S:492:ARG:NH1	2.35	0.55
1:T:134:GLN:NE2	1:U:153:ALA:HA	2.22	0.55
1:Y:134:GLN:NE2	1:4:153:ALA:HA	2.21	0.55
1:f:409:ILE:H	1:f:530:ILE:HG12	1.71	0.55
1:j:538:LEU:O	1:k:418:LYS:NZ	2.38	0.55
1:q:409:ILE:H	1:q:530:ILE:HG12	1.71	0.55
1:x:410:THR:H	1:x:413:ASN:ND2	2.05	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:NE2	2.21	0.55
1:K:153:ALA:HA	1:7:134:GLN:NE2	2.21	0.55
1:R:382:LEU:HD12	1:R:396:VAL:HG22	1.89	0.55
1:Y:409:ILE:H	1:Y:530:ILE:HG12	1.71	0.55
1:Z:348:ASP:OD1	1:Z:349:LEU:N	2.37	0.55
1:f:153:ALA:HA	1:z:134:GLN:NE2	2.22	0.55
1:j:409:ILE:H	1:j:530:ILE:HG12	1.71	0.55
1:l:382:LEU:HD12	1:l:396:VAL:HG22	1.89	0.55
1:u:153:ALA:HA	1:5:134:GLN:NE2	2.21	0.55
1:u:202:MET:HE1	1:5:500:ILE:HG21	1.88	0.55
1:z:409:ILE:H	1:z:530:ILE:HG12	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:153:ALA:HA	1:8:134:GLN:NE2	2.22	0.55
1:C:382:LEU:HD12	1:C:396:VAL:HG22	1.89	0.55
1:C:538:LEU:O	1:b:418:LYS:NZ	2.38	0.55
1:D:418:LYS:NZ	1:P:538:LEU:O	2.38	0.55
1:F:500:ILE:HG21	1:G:202:MET:HE1	1.89	0.55
1:G:409:ILE:H	1:G:530:ILE:HG12	1.71	0.55
1:H:153:ALA:HA	1:Z:134:GLN:NE2	2.22	0.55
1:H:410:THR:H	1:H:413:ASN:ND2	2.05	0.55
1:K:382:LEU:HD12	1:K:396:VAL:HG22	1.89	0.55
1:L:134:GLN:NE2	1:b:153:ALA:HA	2.22	0.55
1:O:382:LEU:HD12	1:O:396:VAL:HG22	1.89	0.55
1:P:409:ILE:H	1:P:530:ILE:HG12	1.71	0.55
1:P:410:THR:H	1:P:413:ASN:ND2	2.05	0.55
1:W:410:THR:H	1:W:413:ASN:ND2	2.05	0.55
1:X:382:LEU:HD12	1:X:396:VAL:HG22	1.89	0.55
1:X:409:ILE:H	1:X:530:ILE:HG12	1.72	0.55
1:a:382:LEU:HD12	1:a:396:VAL:HG22	1.89	0.55
1:d:382:LEU:HD12	1:d:396:VAL:HG22	1.89	0.55
1:e:134:GLN:NE2	1:h:153:ALA:HA	2.21	0.55
1:g:382:LEU:HD12	1:g:396:VAL:HG22	1.89	0.55
1:j:410:THR:H	1:j:413:ASN:ND2	2.05	0.55
1:n:382:LEU:HD12	1:n:396:VAL:HG22	1.89	0.55
1:o:409:ILE:H	1:o:530:ILE:HG12	1.72	0.55
1:o:410:THR:H	1:o:413:ASN:ND2	2.05	0.55
1:q:382:LEU:HD12	1:q:396:VAL:HG22	1.89	0.55
1:t:202:MET:HE1	1:y:500:ILE:HG21	1.89	0.55
1:z:153:ALA:HA	1:4:134:GLN:NE2	2.22	0.55
1:1:410:THR:H	1:1:413:ASN:ND2	2.05	0.55
1:5:410:THR:H	1:5:413:ASN:ND2	2.05	0.55
1:B:153:ALA:HA	1:C:134:GLN:NE2	2.23	0.54
1:H:134:GLN:NE2	1:I:153:ALA:HA	2.21	0.54
1:N:500:ILE:HG21	1:m:202:MET:HE1	1.88	0.54
1:T:382:LEU:HD12	1:T:396:VAL:HG22	1.89	0.54
1:X:410:THR:H	1:X:413:ASN:ND2	2.05	0.54
1:b:348:ASP:OD1	1:b:349:LEU:N	2.37	0.54
1:f:348:ASP:OD1	1:f:349:LEU:N	2.37	0.54
1:f:418:LYS:NZ	1:g:538:LEU:O	2.38	0.54
1:g:409:ILE:H	1:g:530:ILE:HG12	1.71	0.54
1:i:382:LEU:HD12	1:i:396:VAL:HG22	1.89	0.54
1:i:410:THR:H	1:i:413:ASN:ND2	2.05	0.54
1:k:491:ARG:O	1:k:492:ARG:NH1	2.35	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:134:GLN:NE2	1:s:153:ALA:HA	2.22	0.54
1:o:382:LEU:HD12	1:o:396:VAL:HG22	1.89	0.54
1:q:318:VAL:HG22	1:s:381:ALA:HB3	1.89	0.54
1:t:409:ILE:H	1:t:530:ILE:HG12	1.71	0.54
1:v:134:GLN:NE2	1:w:153:ALA:HA	2.21	0.54
1:4:382:LEU:HD12	1:4:396:VAL:HG22	1.89	0.54
1:6:410:THR:H	1:6:413:ASN:ND2	2.05	0.54
1:7:382:LEU:HD12	1:7:396:VAL:HG22	1.89	0.54
1:8:203:GLU:OE1	1:8:327:ASN:ND2	2.41	0.54
1:8:348:ASP:OD1	1:8:349:LEU:N	2.37	0.54
1:A:203:GLU:OE1	1:A:327:ASN:ND2	2.41	0.54
1:B:203:GLU:OE1	1:B:327:ASN:ND2	2.41	0.54
1:B:410:THR:H	1:B:413:ASN:ND2	2.05	0.54
1:C:409:ILE:H	1:C:530:ILE:HG12	1.71	0.54
1:G:500:ILE:HG21	1:W:202:MET:HE1	1.88	0.54
1:K:500:ILE:HG21	1:L:202:MET:HE1	1.88	0.54
1:N:410:THR:H	1:N:413:ASN:ND2	2.05	0.54
1:T:202:MET:HE1	1:i:500:ILE:HG21	1.88	0.54
1:U:409:ILE:H	1:U:530:ILE:HG12	1.71	0.54
1:Z:153:ALA:HA	1:a:134:GLN:NE2	2.22	0.54
1:Z:203:GLU:OE1	1:Z:327:ASN:ND2	2.41	0.54
1:c:410:THR:H	1:c:413:ASN:ND2	2.05	0.54
1:d:410:THR:H	1:d:413:ASN:ND2	2.05	0.54
1:e:410:THR:H	1:e:413:ASN:ND2	2.05	0.54
1:g:134:GLN:NE2	1:1:153:ALA:HA	2.23	0.54
1:j:134:GLN:NE2	1:x:153:ALA:HA	2.21	0.54
1:m:382:LEU:HD12	1:m:396:VAL:HG22	1.89	0.54
1:n:410:THR:H	1:n:413:ASN:ND2	2.05	0.54
1:o:348:ASP:OD1	1:o:349:LEU:N	2.37	0.54
1:r:491:ARG:O	1:r:492:ARG:NH1	2.35	0.54
1:s:409:ILE:H	1:s:530:ILE:HG12	1.71	0.54
1:t:500:ILE:HG21	1:6:202:MET:HE1	1.88	0.54
1:v:203:GLU:OE1	1:v:327:ASN:ND2	2.41	0.54
1:z:202:MET:HE1	1:4:500:ILE:HG21	1.88	0.54
1:1:203:GLU:OE1	1:1:327:ASN:ND2	2.41	0.54
1:2:134:GLN:NE2	1:3:153:ALA:HA	2.22	0.54
1:3:382:LEU:HD12	1:3:396:VAL:HG22	1.89	0.54
1:A:134:GLN:NE2	1:E:153:ALA:HA	2.21	0.54
1:A:500:ILE:HG21	1:E:202:MET:HE1	1.89	0.54
1:J:134:GLN:NE2	1:a:153:ALA:HA	2.22	0.54
1:J:500:ILE:HG21	1:a:202:MET:HE1	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:153:ALA:HA	1:c:134:GLN:NE2	2.21	0.54
1:N:382:LEU:HD12	1:N:396:VAL:HG22	1.89	0.54
1:O:500:ILE:HG21	1:P:202:MET:HE1	1.88	0.54
1:P:134:GLN:NE2	1:Q:153:ALA:HA	2.21	0.54
1:U:134:GLN:NE2	1:e:153:ALA:HA	2.22	0.54
1:Y:382:LEU:HD12	1:Y:396:VAL:HG22	1.89	0.54
1:a:203:GLU:OE1	1:a:327:ASN:ND2	2.41	0.54
1:c:153:ALA:HA	1:s:134:GLN:NE2	2.22	0.54
1:j:202:MET:HE1	1:l:500:ILE:HG21	1.88	0.54
1:n:409:ILE:H	1:n:530:ILE:HG12	1.71	0.54
1:t:410:THR:H	1:t:413:ASN:ND2	2.05	0.54
1:v:500:ILE:HG21	1:w:202:MET:HE1	1.89	0.54
1:2:500:ILE:HG21	1:3:202:MET:HE1	1.88	0.54
1:3:134:GLN:NE2	1:8:153:ALA:HA	2.22	0.54
1:3:203:GLU:OE1	1:3:327:ASN:ND2	2.41	0.54
1:C:410:THR:H	1:C:413:ASN:ND2	2.05	0.54
1:E:410:THR:H	1:E:413:ASN:ND2	2.05	0.54
1:I:410:THR:H	1:I:413:ASN:ND2	2.05	0.54
1:Q:203:GLU:OE1	1:Q:327:ASN:ND2	2.41	0.54
1:X:348:ASP:OD1	1:X:349:LEU:N	2.37	0.54
1:g:348:ASP:OD1	1:g:349:LEU:N	2.37	0.54
1:p:409:ILE:H	1:p:530:ILE:HG12	1.71	0.54
1:w:382:LEU:HD12	1:w:396:VAL:HG22	1.89	0.54
1:w:418:LYS:NZ	1:y:538:LEU:O	2.38	0.54
1:x:382:LEU:HD12	1:x:396:VAL:HG22	1.89	0.54
1:C:348:ASP:OD1	1:C:349:LEU:N	2.37	0.54
1:D:203:GLU:OE1	1:D:327:ASN:ND2	2.41	0.54
1:F:203:GLU:OE1	1:F:327:ASN:ND2	2.41	0.54
1:I:203:GLU:OE1	1:I:327:ASN:ND2	2.41	0.54
1:J:409:ILE:H	1:J:530:ILE:HG12	1.71	0.54
1:L:410:THR:H	1:L:413:ASN:ND2	2.05	0.54
1:Q:382:LEU:HD12	1:Q:396:VAL:HG22	1.89	0.54
1:V:409:ILE:H	1:V:530:ILE:HG12	1.71	0.54
1:X:203:GLU:OE1	1:X:327:ASN:ND2	2.41	0.54
1:b:203:GLU:OE1	1:b:327:ASN:ND2	2.41	0.54
1:c:382:LEU:HD12	1:c:396:VAL:HG22	1.89	0.54
1:d:409:ILE:H	1:d:530:ILE:HG12	1.71	0.54
1:e:382:LEU:HD12	1:e:396:VAL:HG22	1.89	0.54
1:g:410:THR:H	1:g:413:ASN:ND2	2.05	0.54
1:k:202:MET:HE1	1:w:500:ILE:HG21	1.88	0.54
1:k:203:GLU:OE1	1:k:327:ASN:ND2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:203:GLU:OE1	1:o:327:ASN:ND2	2.41	0.54
1:w:410:THR:H	1:w:413:ASN:ND2	2.05	0.54
1:x:203:GLU:OE1	1:x:327:ASN:ND2	2.41	0.54
1:y:203:GLU:OE1	1:y:327:ASN:ND2	2.41	0.54
1:2:409:ILE:H	1:2:530:ILE:HG12	1.71	0.54
1:D:202:MET:HE1	1:E:500:ILE:HG21	1.88	0.54
1:E:382:LEU:HD12	1:E:396:VAL:HG22	1.89	0.54
1:E:409:ILE:H	1:E:530:ILE:HG12	1.71	0.54
1:F:382:LEU:HD12	1:F:396:VAL:HG22	1.89	0.54
1:G:410:THR:H	1:G:413:ASN:ND2	2.05	0.54
1:O:202:MET:HE1	1:d:500:ILE:HG21	1.88	0.54
1:T:538:LEU:O	1:d:418:LYS:NZ	2.38	0.54
1:Z:202:MET:HE1	1:a:500:ILE:HG21	1.88	0.54
1:a:410:THR:H	1:a:413:ASN:ND2	2.05	0.54
1:c:409:ILE:H	1:c:530:ILE:HG12	1.71	0.54
1:f:203:GLU:OE1	1:f:327:ASN:ND2	2.41	0.54
1:p:202:MET:HE1	1:6:500:ILE:HG21	1.88	0.54
1:u:203:GLU:OE1	1:u:327:ASN:ND2	2.41	0.54
1:u:410:THR:H	1:u:413:ASN:ND2	2.05	0.54
1:y:382:LEU:HD12	1:y:396:VAL:HG22	1.89	0.54
1:z:410:THR:H	1:z:413:ASN:ND2	2.05	0.54
1:A:202:MET:HE1	1:B:500:ILE:HG21	1.88	0.54
1:D:348:ASP:OD1	1:D:349:LEU:N	2.37	0.54
1:F:409:ILE:H	1:F:530:ILE:HG12	1.71	0.54
1:M:202:MET:HE1	1:c:500:ILE:HG21	1.89	0.54
1:O:410:THR:H	1:O:413:ASN:ND2	2.05	0.54
1:R:410:THR:H	1:R:413:ASN:ND2	2.05	0.54
1:T:203:GLU:OE1	1:T:327:ASN:ND2	2.41	0.54
1:V:202:MET:HE1	1:W:500:ILE:HG21	1.88	0.54
1:b:382:LEU:HD12	1:b:396:VAL:HG22	1.89	0.54
1:e:500:ILE:HG21	1:h:202:MET:HE1	1.89	0.54
1:f:410:THR:H	1:f:413:ASN:ND2	2.05	0.54
1:j:500:ILE:HG21	1:x:202:MET:HE1	1.88	0.54
1:m:203:GLU:OE1	1:m:327:ASN:ND2	2.41	0.54
1:H:203:GLU:OE1	1:H:327:ASN:ND2	2.41	0.54
1:J:203:GLU:OE1	1:J:327:ASN:ND2	2.41	0.54
1:J:382:LEU:HD12	1:J:396:VAL:HG22	1.89	0.54
1:P:500:ILE:HG21	1:Q:202:MET:HE1	1.88	0.54
1:R:203:GLU:OE1	1:R:327:ASN:ND2	2.41	0.54
1:T:348:ASP:OD1	1:T:349:LEU:N	2.37	0.54
1:b:410:THR:H	1:b:413:ASN:ND2	2.05	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:500:ILE:HG21	1:o:202:MET:HE1	1.89	0.54
1:e:203:GLU:OE1	1:e:327:ASN:ND2	2.41	0.54
1:f:382:LEU:HD12	1:f:396:VAL:HG22	1.89	0.54
1:l:410:THR:H	1:l:413:ASN:ND2	2.05	0.54
1:m:348:ASP:OD1	1:m:349:LEU:N	2.37	0.54
1:m:410:THR:H	1:m:413:ASN:ND2	2.05	0.54
1:p:410:THR:H	1:p:413:ASN:ND2	2.05	0.54
1:q:203:GLU:OE1	1:q:327:ASN:ND2	2.41	0.54
1:q:410:THR:H	1:q:413:ASN:ND2	2.05	0.54
1:v:202:MET:HE1	1:1:500:ILE:HG21	1.88	0.54
1:y:409:ILE:H	1:y:530:ILE:HG12	1.71	0.54
1:y:410:THR:H	1:y:413:ASN:ND2	2.05	0.54
1:2:203:GLU:OE1	1:2:327:ASN:ND2	2.41	0.54
1:2:382:LEU:HD12	1:2:396:VAL:HG22	1.89	0.54
1:3:410:THR:H	1:3:413:ASN:ND2	2.05	0.54
1:3:500:ILE:HG21	1:8:202:MET:HE1	1.88	0.54
1:5:203:GLU:OE1	1:5:327:ASN:ND2	2.41	0.54
1:F:410:THR:H	1:F:413:ASN:ND2	2.05	0.54
1:K:203:GLU:OE1	1:K:327:ASN:ND2	2.41	0.54
1:O:203:GLU:OE1	1:O:327:ASN:ND2	2.41	0.54
1:T:410:THR:H	1:T:413:ASN:ND2	2.05	0.54
1:V:410:THR:H	1:V:413:ASN:ND2	2.05	0.54
1:X:202:MET:HE1	1:f:500:ILE:HG21	1.89	0.54
1:X:500:ILE:HG21	1:Y:202:MET:HE1	1.88	0.54
1:c:203:GLU:OE1	1:c:327:ASN:ND2	2.41	0.54
1:e:409:ILE:H	1:e:530:ILE:HG12	1.71	0.54
1:h:382:LEU:HD12	1:h:396:VAL:HG22	1.89	0.54
1:j:348:ASP:OD1	1:j:349:LEU:N	2.37	0.54
1:l:202:MET:HE1	1:n:500:ILE:HG21	1.88	0.54
1:l:203:GLU:OE1	1:l:327:ASN:ND2	2.41	0.54
1:r:410:THR:H	1:r:413:ASN:ND2	2.05	0.54
1:s:410:THR:H	1:s:413:ASN:ND2	2.05	0.54
1:M:134:GLN:NE2	1:N:153:ALA:HA	2.21	0.54
1:N:203:GLU:OE1	1:N:327:ASN:ND2	2.41	0.54
1:U:203:GLU:OE1	1:U:327:ASN:ND2	2.41	0.54
1:k:348:ASP:OD1	1:k:349:LEU:N	2.37	0.54
1:o:500:ILE:HG21	1:7:202:MET:HE1	1.88	0.54
1:r:382:LEU:HD12	1:r:396:VAL:HG22	1.89	0.54
1:u:500:ILE:HG21	1:2:202:MET:HE1	1.88	0.54
1:w:409:ILE:H	1:w:530:ILE:HG12	1.71	0.54
1:4:203:GLU:OE1	1:4:327:ASN:ND2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:203:GLU:OE1	1:6:327:ASN:ND2	2.41	0.54
1:A:410:THR:H	1:A:413:ASN:ND2	2.05	0.53
1:C:203:GLU:OE1	1:C:327:ASN:ND2	2.41	0.53
1:G:203:GLU:OE1	1:G:327:ASN:ND2	2.41	0.53
1:M:382:LEU:HD12	1:M:396:VAL:HG22	1.89	0.53
1:M:410:THR:H	1:M:413:ASN:ND2	2.05	0.53
1:R:153:ALA:HA	1:V:134:GLN:NE2	2.23	0.53
1:S:409:ILE:H	1:S:530:ILE:HG12	1.71	0.53
1:S:410:THR:H	1:S:413:ASN:ND2	2.05	0.53
1:U:410:THR:H	1:U:413:ASN:ND2	2.05	0.53
1:V:203:GLU:OE1	1:V:327:ASN:ND2	2.41	0.53
1:W:203:GLU:OE1	1:W:327:ASN:ND2	2.41	0.53
1:h:410:THR:H	1:h:413:ASN:ND2	2.05	0.53
1:p:203:GLU:OE1	1:p:327:ASN:ND2	2.41	0.53
1:p:382:LEU:HD12	1:p:396:VAL:HG22	1.89	0.53
1:r:203:GLU:OE1	1:r:327:ASN:ND2	2.41	0.53
1:t:203:GLU:OE1	1:t:327:ASN:ND2	2.41	0.53
1:H:409:ILE:H	1:H:530:ILE:HG12	1.71	0.53
1:I:500:ILE:HG21	1:J:202:MET:HE1	1.89	0.53
1:O:348:ASP:OD1	1:O:349:LEU:N	2.37	0.53
1:P:348:ASP:OD1	1:P:349:LEU:N	2.37	0.53
1:S:203:GLU:OE1	1:S:327:ASN:ND2	2.41	0.53
1:S:382:LEU:HD12	1:S:396:VAL:HG22	1.89	0.53
1:U:382:LEU:HD12	1:U:396:VAL:HG22	1.89	0.53
1:g:203:GLU:OE1	1:g:327:ASN:ND2	2.41	0.53
1:i:203:GLU:OE1	1:i:327:ASN:ND2	2.41	0.53
1:i:348:ASP:OD1	1:i:349:LEU:N	2.37	0.53
1:s:382:LEU:HD12	1:s:396:VAL:HG22	1.89	0.53
1:v:410:THR:H	1:v:413:ASN:ND2	2.05	0.53
1:z:203:GLU:OE1	1:z:327:ASN:ND2	2.41	0.53
1:5:409:ILE:H	1:5:530:ILE:HG12	1.72	0.53
1:8:410:THR:H	1:8:413:ASN:ND2	2.05	0.53
1:E:203:GLU:OE1	1:E:327:ASN:ND2	2.41	0.53
1:L:203:GLU:OE1	1:L:327:ASN:ND2	2.41	0.53
1:N:348:ASP:OD1	1:N:349:LEU:N	2.37	0.53
1:Y:410:THR:H	1:Y:413:ASN:ND2	2.05	0.53
1:Z:410:THR:H	1:Z:413:ASN:ND2	2.05	0.53
1:h:134:GLN:NE2	1:i:153:ALA:HA	2.22	0.53
1:l:348:ASP:OD1	1:l:349:LEU:N	2.37	0.53
1:p:134:GLN:NE2	1:q:153:ALA:HA	2.23	0.53
1:s:203:GLU:OE1	1:s:327:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:410:THR:H	1:K:413:ASN:ND2	2.05	0.53
1:M:203:GLU:OE1	1:M:327:ASN:ND2	2.41	0.53
1:V:382:LEU:HD12	1:V:396:VAL:HG22	1.89	0.53
1:j:203:GLU:OE1	1:j:327:ASN:ND2	2.41	0.53
1:r:409:ILE:H	1:r:530:ILE:HG12	1.71	0.53
1:u:382:LEU:HD12	1:u:396:VAL:HG22	1.89	0.53
1:w:203:GLU:OE1	1:w:327:ASN:ND2	2.41	0.53
1:B:318:VAL:HG22	1:L:381:ALA:HB3	1.91	0.53
1:G:382:LEU:HD12	1:G:396:VAL:HG22	1.89	0.53
1:H:318:VAL:HG22	1:Y:381:ALA:HB3	1.91	0.53
1:I:382:LEU:HD12	1:I:396:VAL:HG22	1.89	0.53
1:P:203:GLU:OE1	1:P:327:ASN:ND2	2.41	0.53
1:V:318:VAL:HG22	1:X:381:ALA:HB3	1.91	0.53
1:X:318:VAL:HG22	1:e:381:ALA:HB3	1.91	0.53
1:d:203:GLU:OE1	1:d:327:ASN:ND2	2.41	0.53
1:h:203:GLU:OE1	1:h:327:ASN:ND2	2.41	0.53
1:n:203:GLU:OE1	1:n:327:ASN:ND2	2.41	0.53
1:o:381:ALA:HB3	1:p:318:VAL:HG22	1.91	0.53
1:t:382:LEU:HD12	1:t:396:VAL:HG22	1.89	0.53
1:z:318:VAL:HG22	1:2:381:ALA:HB3	1.91	0.53
1:z:381:ALA:HB3	1:1:318:VAL:HG22	1.91	0.53
1:7:410:THR:H	1:7:413:ASN:ND2	2.05	0.53
1:A:318:VAL:HG22	1:I:381:ALA:HB3	1.91	0.53
1:D:410:THR:H	1:D:413:ASN:ND2	2.05	0.53
1:J:381:ALA:HB3	1:L:318:VAL:HG22	1.91	0.53
1:J:410:THR:H	1:J:413:ASN:ND2	2.05	0.53
1:K:381:ALA:HB3	1:a:318:VAL:HG22	1.91	0.53
1:R:318:VAL:HG22	1:U:381:ALA:HB3	1.91	0.53
1:c:381:ALA:HB3	1:o:318:VAL:HG22	1.91	0.53
1:k:410:THR:H	1:k:413:ASN:ND2	2.05	0.53
1:m:127:HIS:CD2	1:m:238:THR:HG22	2.44	0.53
1:u:381:ALA:HB3	1:v:318:VAL:HG22	1.91	0.53
1:3:318:VAL:HG22	1:4:381:ALA:HB3	1.91	0.53
1:4:410:THR:H	1:4:413:ASN:ND2	2.05	0.53
1:5:318:VAL:HG22	1:7:381:ALA:HB3	1.91	0.53
1:C:206:ASN:HD22	1:C:209:GLU:HG3	1.74	0.53
1:D:381:ALA:HB3	1:N:318:VAL:HG22	1.91	0.53
1:W:206:ASN:HD22	1:W:209:GLU:HG3	1.74	0.53
1:Z:409:ILE:H	1:Z:530:ILE:HG12	1.72	0.53
1:g:206:ASN:HD22	1:g:209:GLU:HG3	1.74	0.53
1:B:302:ALA:HB3	1:B:314:SER:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:127:HIS:CD2	1:E:238:THR:HG22	2.44	0.53
1:E:206:ASN:HD22	1:E:209:GLU:HG3	1.74	0.53
1:M:318:VAL:HG22	1:b:381:ALA:HB3	1.91	0.53
1:Y:203:GLU:OE1	1:Y:327:ASN:ND2	2.41	0.53
1:Y:302:ALA:HB3	1:Y:314:SER:HB2	1.91	0.53
1:i:318:VAL:HG22	1:k:381:ALA:HB3	1.91	0.53
1:l:302:ALA:HB3	1:l:314:SER:HB2	1.91	0.53
1:n:206:ASN:HD22	1:n:209:GLU:HG3	1.74	0.53
1:6:206:ASN:HD22	1:6:209:GLU:HG3	1.74	0.53
1:7:302:ALA:HB3	1:7:314:SER:HB2	1.91	0.53
1:8:409:ILE:H	1:8:530:ILE:HG12	1.72	0.53
1:A:302:ALA:HB3	1:A:314:SER:HB2	1.91	0.53
1:F:302:ALA:HB3	1:F:314:SER:HB2	1.91	0.53
1:G:381:ALA:HB3	1:I:318:VAL:HG22	1.91	0.53
1:H:302:ALA:HB3	1:H:314:SER:HB2	1.91	0.53
1:O:302:ALA:HB3	1:O:314:SER:HB2	1.91	0.53
1:X:302:ALA:HB3	1:X:314:SER:HB2	1.91	0.53
1:d:206:ASN:HD22	1:d:209:GLU:HG3	1.74	0.53
1:e:206:ASN:HD22	1:e:209:GLU:HG3	1.74	0.53
1:o:302:ALA:HB3	1:o:314:SER:HB2	1.91	0.53
1:w:127:HIS:CD2	1:w:238:THR:HG22	2.44	0.53
1:1:302:ALA:HB3	1:1:314:SER:HB2	1.91	0.53
1:2:410:THR:H	1:2:413:ASN:ND2	2.05	0.53
1:G:370:SER:HG	1:G:407:TYR:HH	1.57	0.53
1:M:206:ASN:HD22	1:M:209:GLU:HG3	1.74	0.53
1:Q:206:ASN:HD22	1:Q:209:GLU:HG3	1.74	0.53
1:Q:302:ALA:HB3	1:Q:314:SER:HB2	1.91	0.53
1:V:302:ALA:HB3	1:V:314:SER:HB2	1.91	0.53
1:Y:127:HIS:CD2	1:Y:238:THR:HG22	2.44	0.53
1:Z:318:VAL:HG22	1:3:381:ALA:HB3	1.91	0.53
1:a:381:ALA:HB3	1:8:318:VAL:HG22	1.91	0.53
1:c:206:ASN:HD22	1:c:209:GLU:HG3	1.74	0.53
1:f:381:ALA:HB3	1:h:318:VAL:HG22	1.91	0.53
1:m:206:ASN:HD22	1:m:209:GLU:HG3	1.74	0.53
1:p:302:ALA:HB3	1:p:314:SER:HB2	1.91	0.53
1:u:302:ALA:HB3	1:u:314:SER:HB2	1.91	0.53
1:w:206:ASN:HD22	1:w:209:GLU:HG3	1.74	0.53
1:x:302:ALA:HB3	1:x:314:SER:HB2	1.91	0.53
1:z:206:ASN:HD22	1:z:209:GLU:HG3	1.74	0.53
1:5:302:ALA:HB3	1:5:314:SER:HB2	1.91	0.53
1:7:203:GLU:OE1	1:7:327:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:206:ASN:HD22	1:I:209:GLU:HG3	1.74	0.52
1:K:206:ASN:HD22	1:K:209:GLU:HG3	1.74	0.52
1:L:206:ASN:HD22	1:L:209:GLU:HG3	1.74	0.52
1:M:302:ALA:HB3	1:M:314:SER:HB2	1.91	0.52
1:N:381:ALA:HB3	1:P:318:VAL:HG22	1.91	0.52
1:T:206:ASN:HD22	1:T:209:GLU:HG3	1.74	0.52
1:a:302:ALA:HB3	1:a:314:SER:HB2	1.91	0.52
1:c:318:VAL:HG22	1:p:381:ALA:HB3	1.91	0.52
1:h:206:ASN:HD22	1:h:209:GLU:HG3	1.74	0.52
1:h:302:ALA:HB3	1:h:314:SER:HB2	1.91	0.52
1:i:381:ALA:HB3	1:j:318:VAL:HG22	1.91	0.52
1:t:302:ALA:HB3	1:t:314:SER:HB2	1.91	0.52
1:t:381:ALA:HB3	1:u:318:VAL:HG22	1.91	0.52
1:v:302:ALA:HB3	1:v:314:SER:HB2	1.91	0.52
1:x:381:ALA:HB3	1:y:318:VAL:HG22	1.91	0.52
1:y:302:ALA:HB3	1:y:314:SER:HB2	1.91	0.52
1:B:206:ASN:HD22	1:B:209:GLU:HG3	1.74	0.52
1:C:381:ALA:HB3	1:b:318:VAL:HG22	1.91	0.52
1:F:318:VAL:HG22	1:Q:381:ALA:HB3	1.91	0.52
1:I:302:ALA:HB3	1:I:314:SER:HB2	1.91	0.52
1:K:302:ALA:HB3	1:K:314:SER:HB2	1.91	0.52
1:M:127:HIS:CD2	1:M:238:THR:HG22	2.44	0.52
1:R:302:ALA:HB3	1:R:314:SER:HB2	1.91	0.52
1:S:302:ALA:HB3	1:S:314:SER:HB2	1.91	0.52
1:T:318:VAL:HG22	1:l:381:ALA:HB3	1.91	0.52
1:f:318:VAL:HG22	1:g:381:ALA:HB3	1.91	0.52
1:h:127:HIS:CD2	1:h:238:THR:HG22	2.44	0.52
1:q:381:ALA:HB3	1:r:318:VAL:HG22	1.90	0.52
1:s:206:ASN:HD22	1:s:209:GLU:HG3	1.74	0.52
1:u:206:ASN:HD22	1:u:209:GLU:HG3	1.74	0.52
1:x:206:ASN:HD22	1:x:209:GLU:HG3	1.74	0.52
1:1:381:ALA:HB3	1:2:318:VAL:HG22	1.90	0.52
1:3:302:ALA:HB3	1:3:314:SER:HB2	1.91	0.52
1:4:206:ASN:HD22	1:4:209:GLU:HG3	1.74	0.52
1:4:302:ALA:HB3	1:4:314:SER:HB2	1.91	0.52
1:7:127:HIS:CD2	1:7:238:THR:HG22	2.44	0.52
1:A:206:ASN:HD22	1:A:209:GLU:HG3	1.74	0.52
1:G:302:ALA:HB3	1:G:314:SER:HB2	1.91	0.52
1:V:381:ALA:HB3	1:e:318:VAL:HG22	1.91	0.52
1:Z:206:ASN:HD22	1:Z:209:GLU:HG3	1.74	0.52
1:o:261:PRO:HG2	1:p:89:CYS:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:381:ALA:HB3	1:s:318:VAL:HG22	1.90	0.52
1:l:206:ASN:HD22	1:l:209:GLU:HG3	1.74	0.52
1:8:206:ASN:HD22	1:8:209:GLU:HG3	1.74	0.52
1:B:381:ALA:HB3	1:J:318:VAL:HG22	1.90	0.52
1:H:206:ASN:HD22	1:H:209:GLU:HG3	1.74	0.52
1:I:127:HIS:CD2	1:I:238:THR:HG22	2.44	0.52
1:K:318:VAL:HG22	1:8:381:ALA:HB3	1.91	0.52
1:K:371:ASN:HD22	1:K:524:TRP:HB3	1.75	0.52
1:N:302:ALA:HB3	1:N:314:SER:HB2	1.91	0.52
1:O:381:ALA:HB3	1:m:318:VAL:HG22	1.91	0.52
1:R:381:ALA:HB3	1:S:318:VAL:HG22	1.90	0.52
1:T:302:ALA:HB3	1:T:314:SER:HB2	1.91	0.52
1:U:206:ASN:HD22	1:U:209:GLU:HG3	1.74	0.52
1:b:206:ASN:HD22	1:b:209:GLU:HG3	1.74	0.52
1:k:302:ALA:HB3	1:k:314:SER:HB2	1.91	0.52
1:m:302:ALA:HB3	1:m:314:SER:HB2	1.91	0.52
1:v:206:ASN:HD22	1:v:209:GLU:HG3	1.74	0.52
1:A:127:HIS:CD2	1:A:238:THR:HG22	2.44	0.52
1:B:89:CYS:HB3	1:L:261:PRO:HG2	1.92	0.52
1:D:302:ALA:HB3	1:D:314:SER:HB2	1.91	0.52
1:T:371:ASN:HD22	1:T:524:TRP:HB3	1.75	0.52
1:V:89:CYS:HB3	1:X:261:PRO:HG2	1.92	0.52
1:Z:89:CYS:HB3	1:3:261:PRO:HG2	1.92	0.52
1:Z:371:ASN:HD22	1:Z:524:TRP:HB3	1.75	0.52
1:Z:381:ALA:HB3	1:4:318:VAL:HG22	1.91	0.52
1:d:302:ALA:HB3	1:d:314:SER:HB2	1.91	0.52
1:f:206:ASN:HD22	1:f:209:GLU:HG3	1.74	0.52
1:m:261:PRO:HG2	1:n:89:CYS:HB3	1.92	0.52
1:q:302:ALA:HB3	1:q:314:SER:HB2	1.91	0.52
1:r:302:ALA:HB3	1:r:314:SER:HB2	1.91	0.52
1:w:371:ASN:HD22	1:w:524:TRP:HB3	1.75	0.52
1:z:261:PRO:HG2	1:l:89:CYS:HB3	1.92	0.52
1:4:371:ASN:HD22	1:4:524:TRP:HB3	1.75	0.52
1:8:371:ASN:HD22	1:8:524:TRP:HB3	1.75	0.52
1:A:261:PRO:HG2	1:G:89:CYS:HB3	1.92	0.52
1:E:371:ASN:HD22	1:E:524:TRP:HB3	1.75	0.52
1:J:371:ASN:HD22	1:J:524:TRP:HB3	1.75	0.52
1:L:371:ASN:HD22	1:L:524:TRP:HB3	1.75	0.52
1:N:261:PRO:HG2	1:P:89:CYS:HB3	1.92	0.52
1:T:261:PRO:HG2	1:d:89:CYS:HB3	1.92	0.52
1:U:127:HIS:CD2	1:U:238:THR:HG22	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:261:PRO:HG2	1:Y:89:CYS:HB3	1.92	0.52
1:a:261:PRO:HG2	1:8:89:CYS:HB3	1.92	0.52
1:i:302:ALA:HB3	1:i:314:SER:HB2	1.91	0.52
1:n:302:ALA:HB3	1:n:314:SER:HB2	1.91	0.52
1:n:371:ASN:HD22	1:n:524:TRP:HB3	1.75	0.52
1:u:127:HIS:CD2	1:u:238:THR:HG22	2.44	0.52
1:y:206:ASN:HD22	1:y:209:GLU:HG3	1.74	0.52
1:z:371:ASN:HD22	1:z:524:TRP:HB3	1.75	0.52
1:4:348:ASP:OD1	1:4:349:LEU:N	2.37	0.52
1:5:206:ASN:HD22	1:5:209:GLU:HG3	1.74	0.52
1:6:261:PRO:HG2	1:7:89:CYS:HB3	1.92	0.52
1:E:89:CYS:HB3	1:F:261:PRO:HG2	1.92	0.52
1:F:206:ASN:HD22	1:F:209:GLU:HG3	1.74	0.52
1:H:89:CYS:HB3	1:Y:261:PRO:HG2	1.92	0.52
1:S:371:ASN:HD22	1:S:524:TRP:HB3	1.75	0.52
1:S:381:ALA:HB3	1:U:318:VAL:HG22	1.91	0.52
1:d:371:ASN:HD22	1:d:524:TRP:HB3	1.75	0.52
1:k:206:ASN:HD22	1:k:209:GLU:HG3	1.74	0.52
1:m:371:ASN:HD22	1:m:524:TRP:HB3	1.75	0.52
1:t:89:CYS:HB3	1:v:261:PRO:HG2	1.92	0.52
1:v:127:HIS:CD2	1:v:238:THR:HG22	2.44	0.52
1:y:371:ASN:HD22	1:y:524:TRP:HB3	1.75	0.52
1:2:371:ASN:HD22	1:2:524:TRP:HB3	1.75	0.52
1:B:371:ASN:HD22	1:B:524:TRP:HB3	1.75	0.52
1:D:206:ASN:HD22	1:D:209:GLU:HG3	1.74	0.52
1:F:371:ASN:HD22	1:F:524:TRP:HB3	1.75	0.52
1:M:371:ASN:HD22	1:M:524:TRP:HB3	1.75	0.52
1:h:371:ASN:HD22	1:h:524:TRP:HB3	1.75	0.52
1:i:206:ASN:HD22	1:i:209:GLU:HG3	1.74	0.52
1:i:261:PRO:HG2	1:j:89:CYS:HB3	1.92	0.52
1:r:371:ASN:HD22	1:r:524:TRP:HB3	1.75	0.52
1:s:127:HIS:CD2	1:s:238:THR:HG22	2.44	0.52
1:w:89:CYS:HB3	1:y:261:PRO:HG2	1.92	0.52
1:1:371:ASN:HD22	1:1:524:TRP:HB3	1.75	0.52
1:5:89:CYS:HB3	1:7:261:PRO:HG2	1.92	0.52
1:C:318:VAL:HG22	1:M:381:ALA:HB3	1.91	0.52
1:N:206:ASN:HD22	1:N:209:GLU:HG3	1.74	0.52
1:Q:127:HIS:CD2	1:Q:238:THR:HG22	2.44	0.52
1:c:261:PRO:HG2	1:o:89:CYS:HB3	1.92	0.52
1:g:89:CYS:HB3	1:h:261:PRO:HG2	1.92	0.52
1:j:206:ASN:HD22	1:j:209:GLU:HG3	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:371:ASN:HD22	1:7:524:TRP:HB3	1.75	0.52
1:A:371:ASN:HD22	1:A:524:TRP:HB3	1.75	0.52
1:C:89:CYS:HB3	1:M:261:PRO:HG2	1.92	0.52
1:D:371:ASN:HD22	1:D:524:TRP:HB3	1.75	0.52
1:G:206:ASN:HD22	1:G:209:GLU:HG3	1.74	0.52
1:H:261:PRO:HG2	1:W:89:CYS:HB3	1.92	0.52
1:P:206:ASN:HD22	1:P:209:GLU:HG3	1.74	0.52
1:X:89:CYS:HB3	1:e:261:PRO:HG2	1.92	0.52
1:Y:371:ASN:HD22	1:Y:524:TRP:HB3	1.75	0.52
1:g:318:VAL:HG22	1:h:381:ALA:HB3	1.91	0.52
1:w:302:ALA:HB3	1:w:314:SER:HB2	1.91	0.52
1:w:318:VAL:HG22	1:y:381:ALA:HB3	1.91	0.52
1:F:127:HIS:CD2	1:F:238:THR:HG22	2.44	0.51
1:G:371:ASN:HD22	1:G:524:TRP:HB3	1.75	0.51
1:H:371:ASN:HD22	1:H:524:TRP:HB3	1.75	0.51
1:K:261:PRO:HG2	1:a:89:CYS:HB3	1.92	0.51
1:O:206:ASN:HD22	1:O:209:GLU:HG3	1.74	0.51
1:O:318:VAL:HG22	1:n:381:ALA:HB3	1.91	0.51
1:R:89:CYS:HB3	1:U:261:PRO:HG2	1.92	0.51
1:U:302:ALA:HB3	1:U:314:SER:HB2	1.91	0.51
1:a:206:ASN:HD22	1:a:209:GLU:HG3	1.74	0.51
1:k:371:ASN:HD22	1:k:524:TRP:HB3	1.75	0.51
1:p:371:ASN:HD22	1:p:524:TRP:HB3	1.75	0.51
1:t:206:ASN:HD22	1:t:209:GLU:HG3	1.74	0.51
1:v:371:ASN:HD22	1:v:524:TRP:HB3	1.75	0.51
1:x:127:HIS:CD2	1:x:238:THR:HG22	2.44	0.51
1:x:371:ASN:HD22	1:x:524:TRP:HB3	1.75	0.51
1:3:206:ASN:HD22	1:3:209:GLU:HG3	1.74	0.51
1:E:318:VAL:HG22	1:F:381:ALA:HB3	1.91	0.51
1:V:371:ASN:HD22	1:V:524:TRP:HB3	1.75	0.51
1:W:381:ALA:HB3	1:Y:318:VAL:HG22	1.91	0.51
1:p:109:GLN:NE2	1:s:488:ARG:O	2.44	0.51
1:q:206:ASN:HD22	1:q:209:GLU:HG3	1.74	0.51
1:t:371:ASN:HD22	1:t:524:TRP:HB3	1.75	0.51
1:z:302:ALA:HB3	1:z:314:SER:HB2	1.91	0.51
1:3:89:CYS:HB3	1:4:261:PRO:HG2	1.92	0.51
1:5:261:PRO:HG2	1:6:89:CYS:HB3	1.92	0.51
1:6:381:ALA:HB3	1:7:318:VAL:HG22	1.91	0.51
1:E:302:ALA:HB3	1:E:314:SER:HB2	1.91	0.51
1:L:302:ALA:HB3	1:L:314:SER:HB2	1.91	0.51
1:R:206:ASN:HD22	1:R:209:GLU:HG3	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:381:ALA:HB3	1:d:318:VAL:HG22	1.91	0.51
1:X:206:ASN:HD22	1:X:209:GLU:HG3	1.74	0.51
1:a:371:ASN:HD22	1:a:524:TRP:HB3	1.75	0.51
1:d:381:ALA:HB3	1:l:318:VAL:HG22	1.91	0.51
1:l:206:ASN:HD22	1:l:209:GLU:HG3	1.74	0.51
1:o:206:ASN:HD22	1:o:209:GLU:HG3	1.74	0.51
1:r:206:ASN:HD22	1:r:209:GLU:HG3	1.74	0.51
1:s:302:ALA:HB3	1:s:314:SER:HB2	1.91	0.51
1:x:261:PRO:HG2	1:y:89:CYS:HB3	1.92	0.51
1:y:127:HIS:CD2	1:y:238:THR:HG22	2.44	0.51
1:3:371:ASN:HD22	1:3:524:TRP:HB3	1.75	0.51
1:5:371:ASN:HD22	1:5:524:TRP:HB3	1.75	0.51
1:E:381:ALA:HB3	1:Q:318:VAL:HG22	1.91	0.51
1:F:89:CYS:HB3	1:Q:261:PRO:HG2	1.92	0.51
1:P:302:ALA:HB3	1:P:314:SER:HB2	1.91	0.51
1:Q:371:ASN:HD22	1:Q:524:TRP:HB3	1.75	0.51
1:S:206:ASN:HD22	1:S:209:GLU:HG3	1.74	0.51
1:U:371:ASN:HD22	1:U:524:TRP:HB3	1.75	0.51
1:V:206:ASN:HD22	1:V:209:GLU:HG3	1.74	0.51
1:W:302:ALA:HB3	1:W:314:SER:HB2	1.91	0.51
1:Z:261:PRO:HG2	1:4:89:CYS:HB3	1.92	0.51
1:e:371:ASN:HD22	1:e:524:TRP:HB3	1.75	0.51
1:m:381:ALA:HB3	1:n:318:VAL:HG22	1.91	0.51
1:s:371:ASN:HD22	1:s:524:TRP:HB3	1.75	0.51
1:6:302:ALA:HB3	1:6:314:SER:HB2	1.91	0.51
1:7:206:ASN:HD22	1:7:209:GLU:HG3	1.74	0.51
1:B:261:PRO:HG2	1:J:89:CYS:HB3	1.93	0.51
1:C:261:PRO:HG2	1:b:89:CYS:HB3	1.92	0.51
1:J:261:PRO:HG2	1:L:89:CYS:HB3	1.92	0.51
1:K:89:CYS:HB3	1:8:261:PRO:HG2	1.92	0.51
1:b:302:ALA:HB3	1:b:314:SER:HB2	1.91	0.51
1:j:302:ALA:HB3	1:j:314:SER:HB2	1.91	0.51
1:3:127:HIS:CD2	1:3:238:THR:HG22	2.44	0.51
1:J:302:ALA:HB3	1:J:314:SER:HB2	1.91	0.51
1:L:127:HIS:CD2	1:L:238:THR:HG22	2.44	0.51
1:N:371:ASN:HD22	1:N:524:TRP:HB3	1.75	0.51
1:O:89:CYS:HB3	1:n:261:PRO:HG2	1.92	0.51
1:O:371:ASN:HD22	1:O:524:TRP:HB3	1.75	0.51
1:R:127:HIS:CD2	1:R:238:THR:HG22	2.44	0.51
1:W:371:ASN:HD22	1:W:524:TRP:HB3	1.75	0.51
1:d:261:PRO:HG2	1:l:89:CYS:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:89:CYS:HB3	1:g:261:PRO:HG2	1.92	0.51
1:i:371:ASN:HD22	1:i:524:TRP:HB3	1.75	0.51
1:j:381:ALA:HB3	1:k:318:VAL:HG22	1.91	0.51
1:u:261:PRO:HG2	1:v:89:CYS:HB3	1.92	0.51
1:1:261:PRO:HG2	1:2:89:CYS:HB3	1.93	0.51
1:2:302:ALA:HB3	1:2:314:SER:HB2	1.91	0.51
1:8:302:ALA:HB3	1:8:314:SER:HB2	1.91	0.51
1:I:371:ASN:HD22	1:I:524:TRP:HB3	1.75	0.51
1:J:206:ASN:HD22	1:J:209:GLU:HG3	1.74	0.51
1:Y:370:SER:HG	1:Y:407:TYR:HH	1.58	0.51
1:a:127:HIS:CD2	1:a:238:THR:HG22	2.44	0.51
1:c:302:ALA:HB3	1:c:314:SER:HB2	1.91	0.51
1:f:302:ALA:HB3	1:f:314:SER:HB2	1.91	0.51
1:l:371:ASN:HD22	1:l:524:TRP:HB3	1.75	0.51
1:n:127:HIS:CD2	1:n:238:THR:HG22	2.44	0.51
1:p:127:HIS:CD2	1:p:238:THR:HG22	2.44	0.51
1:t:261:PRO:HG2	1:u:89:CYS:HB3	1.92	0.51
1:w:381:ALA:HB3	1:x:318:VAL:HG22	1.91	0.51
1:z:89:CYS:HB3	1:2:261:PRO:HG2	1.92	0.51
1:z:127:HIS:CD2	1:z:238:THR:HG22	2.44	0.51
1:2:206:ASN:HD22	1:2:209:GLU:HG3	1.74	0.51
1:7:370:SER:HG	1:7:407:TYR:HH	1.58	0.51
1:A:89:CYS:HB3	1:I:261:PRO:HG2	1.92	0.51
1:C:302:ALA:HB3	1:C:314:SER:HB2	1.91	0.51
1:D:89:CYS:HB3	1:P:261:PRO:HG2	1.92	0.51
1:D:318:VAL:HG22	1:P:381:ALA:HB3	1.91	0.51
1:X:371:ASN:HD22	1:X:524:TRP:HB3	1.75	0.51
1:Y:206:ASN:HD22	1:Y:209:GLU:HG3	1.74	0.51
1:Z:302:ALA:HB3	1:Z:314:SER:HB2	1.91	0.51
1:c:371:ASN:HD22	1:c:524:TRP:HB3	1.75	0.51
1:e:302:ALA:HB3	1:e:314:SER:HB2	1.91	0.51
1:t:318:VAL:HG22	1:v:381:ALA:HB3	1.91	0.51
1:5:381:ALA:HB3	1:6:318:VAL:HG22	1.91	0.51
1:6:371:ASN:HD22	1:6:524:TRP:HB3	1.75	0.51
1:G:261:PRO:HG2	1:I:89:CYS:HB3	1.92	0.51
1:I:199:LEU:HD22	1:I:324:THR:HG21	1.93	0.51
1:P:371:ASN:HD22	1:P:524:TRP:HB3	1.75	0.51
1:X:127:HIS:CD2	1:X:238:THR:HG22	2.44	0.51
1:d:127:HIS:CD2	1:d:238:THR:HG22	2.44	0.51
1:g:302:ALA:HB3	1:g:314:SER:HB2	1.91	0.51
1:p:206:ASN:HD22	1:p:209:GLU:HG3	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:127:HIS:CD2	1:q:238:THR:HG22	2.44	0.51
1:u:199:LEU:HD22	1:u:324:THR:HG21	1.93	0.51
1:u:371:ASN:HD22	1:u:524:TRP:HB3	1.75	0.51
1:A:199:LEU:HD22	1:A:324:THR:HG21	1.93	0.51
1:A:381:ALA:HB3	1:G:318:VAL:HG22	1.91	0.51
1:D:261:PRO:HG2	1:N:89:CYS:HB3	1.92	0.51
1:F:199:LEU:HD22	1:F:324:THR:HG21	1.93	0.51
1:G:199:LEU:HD22	1:G:324:THR:HG21	1.93	0.51
1:H:381:ALA:HB3	1:W:318:VAL:HG22	1.91	0.51
1:L:199:LEU:HD22	1:L:324:THR:HG21	1.93	0.51
1:R:371:ASN:HD22	1:R:524:TRP:HB3	1.75	0.51
1:V:127:HIS:CD2	1:V:238:THR:HG22	2.44	0.51
1:e:199:LEU:HD22	1:e:324:THR:HG21	1.93	0.51
1:j:261:PRO:HG2	1:k:89:CYS:HB3	1.92	0.51
1:j:371:ASN:HD22	1:j:524:TRP:HB3	1.75	0.51
1:o:371:ASN:HD22	1:o:524:TRP:HB3	1.75	0.51
1:z:199:LEU:HD22	1:z:324:THR:HG21	1.93	0.51
1:O:261:PRO:HG2	1:m:89:CYS:HB3	1.92	0.50
1:T:89:CYS:HB3	1:l:261:PRO:HG2	1.92	0.50
1:V:261:PRO:HG2	1:e:89:CYS:HB3	1.92	0.50
1:b:371:ASN:HD22	1:b:524:TRP:HB3	1.75	0.50
1:c:199:LEU:HD22	1:c:324:THR:HG21	1.93	0.50
1:d:199:LEU:HD22	1:d:324:THR:HG21	1.93	0.50
1:o:127:HIS:CD2	1:o:238:THR:HG22	2.44	0.50
1:t:199:LEU:HD22	1:t:324:THR:HG21	1.93	0.50
1:v:199:LEU:HD22	1:v:324:THR:HG21	1.93	0.50
1:M:89:CYS:HB3	1:b:261:PRO:HG2	1.92	0.50
1:O:199:LEU:HD22	1:O:324:THR:HG21	1.93	0.50
1:X:199:LEU:HD22	1:X:324:THR:HG21	1.93	0.50
1:c:89:CYS:HB3	1:p:261:PRO:HG2	1.92	0.50
1:f:261:PRO:HG2	1:h:89:CYS:HB3	1.92	0.50
1:f:371:ASN:HD22	1:f:524:TRP:HB3	1.75	0.50
1:h:199:LEU:HD22	1:h:324:THR:HG21	1.93	0.50
1:i:89:CYS:HB3	1:k:261:PRO:HG2	1.92	0.50
1:l:199:LEU:HD22	1:l:324:THR:HG21	1.93	0.50
1:n:199:LEU:HD22	1:n:324:THR:HG21	1.93	0.50
1:o:199:LEU:HD22	1:o:324:THR:HG21	1.93	0.50
1:s:199:LEU:HD22	1:s:324:THR:HG21	1.93	0.50
1:y:199:LEU:HD22	1:y:324:THR:HG21	1.93	0.50
1:M:199:LEU:HD22	1:M:324:THR:HG21	1.93	0.50
1:T:199:LEU:HD22	1:T:324:THR:HG21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:199:LEU:HD22	1:U:324:THR:HG21	1.93	0.50
1:m:199:LEU:HD22	1:m:324:THR:HG21	1.93	0.50
1:q:371:ASN:HD22	1:q:524:TRP:HB3	1.75	0.50
1:x:199:LEU:HD22	1:x:324:THR:HG21	1.93	0.50
1:1:199:LEU:HD22	1:1:324:THR:HG21	1.93	0.50
1:5:503:GLU:HG2	1:5:514:LYS:HE2	1.94	0.50
1:B:199:LEU:HD22	1:B:324:THR:HG21	1.93	0.50
1:E:261:PRO:HG2	1:Q:89:CYS:HB3	1.92	0.50
1:H:503:GLU:HG2	1:H:514:LYS:HE2	1.94	0.50
1:P:127:HIS:CD2	1:P:238:THR:HG22	2.44	0.50
1:Q:199:LEU:HD22	1:Q:324:THR:HG21	1.93	0.50
1:r:261:PRO:HG2	1:s:89:CYS:HB3	1.92	0.50
1:H:127:HIS:CD2	1:H:238:THR:HG22	2.44	0.50
1:J:503:GLU:HG2	1:J:514:LYS:HE2	1.94	0.50
1:j:127:HIS:CD2	1:j:238:THR:HG22	2.44	0.50
1:c:127:HIS:CD2	1:c:238:THR:HG22	2.44	0.50
1:w:261:PRO:HG2	1:x:89:CYS:HB3	1.92	0.50
1:2:503:GLU:HG2	1:2:514:LYS:HE2	1.94	0.50
1:5:127:HIS:CD2	1:5:238:THR:HG22	2.44	0.50
1:K:127:HIS:CD2	1:K:238:THR:HG22	2.44	0.50
1:e:127:HIS:CD2	1:e:238:THR:HG22	2.44	0.50
1:4:127:HIS:CD2	1:4:238:THR:HG22	2.44	0.50
1:J:199:LEU:HD22	1:J:324:THR:HG21	1.93	0.50
1:S:261:PRO:HG2	1:U:89:CYS:HB3	1.92	0.50
1:X:503:GLU:HG2	1:X:514:LYS:HE2	1.94	0.50
1:2:199:LEU:HD22	1:2:324:THR:HG21	1.93	0.50
1:K:199:LEU:HD22	1:K:324:THR:HG21	1.93	0.50
1:K:503:GLU:HG2	1:K:514:LYS:HE2	1.94	0.50
1:N:199:LEU:HD22	1:N:324:THR:HG21	1.93	0.50
1:R:503:GLU:HG2	1:R:514:LYS:HE2	1.94	0.50
1:i:199:LEU:HD22	1:i:324:THR:HG21	1.93	0.50
1:o:503:GLU:HG2	1:o:514:LYS:HE2	1.94	0.50
1:4:199:LEU:HD22	1:4:324:THR:HG21	1.93	0.50
1:4:503:GLU:HG2	1:4:514:LYS:HE2	1.94	0.50
1:6:127:HIS:CD2	1:6:238:THR:HG22	2.44	0.50
1:7:199:LEU:HD22	1:7:324:THR:HG21	1.93	0.50
1:B:488:ARG:O	1:I:109:GLN:NE2	2.45	0.49
1:G:503:GLU:HG2	1:G:514:LYS:HE2	1.94	0.49
1:J:127:HIS:CD2	1:J:238:THR:HG22	2.44	0.49
1:R:261:PRO:HG2	1:S:89:CYS:HB3	1.93	0.49
1:U:503:GLU:HG2	1:U:514:LYS:HE2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:127:HIS:CD2	1:W:238:THR:HG22	2.44	0.49
1:W:199:LEU:HD22	1:W:324:THR:HG21	1.93	0.49
1:g:503:GLU:HG2	1:g:514:LYS:HE2	1.94	0.49
1:q:503:GLU:HG2	1:q:514:LYS:HE2	1.94	0.49
1:u:109:GLN:NE2	1:l:488:ARG:O	2.45	0.49
1:y:357:GLN:HG2	1:y:520:GLN:HB3	1.94	0.49
1:2:127:HIS:CD2	1:2:238:THR:HG22	2.44	0.49
1:6:199:LEU:HD22	1:6:324:THR:HG21	1.93	0.49
1:C:503:GLU:HG2	1:C:514:LYS:HE2	1.94	0.49
1:F:357:GLN:HG2	1:F:520:GLN:HB3	1.94	0.49
1:K:357:GLN:HG2	1:K:520:GLN:HB3	1.94	0.49
1:P:357:GLN:HG2	1:P:520:GLN:HB3	1.95	0.49
1:W:357:GLN:HG2	1:W:520:GLN:HB3	1.94	0.49
1:Z:127:HIS:CD2	1:Z:238:THR:HG22	2.44	0.49
1:Z:357:GLN:HG2	1:Z:520:GLN:HB3	1.94	0.49
1:m:503:GLU:HG2	1:m:514:LYS:HE2	1.94	0.49
1:p:199:LEU:HD22	1:p:324:THR:HG21	1.93	0.49
1:q:261:PRO:HG2	1:r:89:CYS:HB3	1.93	0.49
1:s:503:GLU:HG2	1:s:514:LYS:HE2	1.94	0.49
1:t:357:GLN:HG2	1:t:520:GLN:HB3	1.94	0.49
1:z:503:GLU:HG2	1:z:514:LYS:HE2	1.94	0.49
1:4:357:GLN:HG2	1:4:520:GLN:HB3	1.94	0.49
1:8:127:HIS:CD2	1:8:238:THR:HG22	2.44	0.49
1:8:357:GLN:HG2	1:8:520:GLN:HB3	1.94	0.49
1:A:503:GLU:HG2	1:A:514:LYS:HE2	1.94	0.49
1:B:127:HIS:CD2	1:B:238:THR:HG22	2.44	0.49
1:C:371:ASN:HD22	1:C:524:TRP:HB3	1.75	0.49
1:G:357:GLN:HG2	1:G:520:GLN:HB3	1.94	0.49
1:J:357:GLN:HG2	1:J:520:GLN:HB3	1.94	0.49
1:L:503:GLU:HG2	1:L:514:LYS:HE2	1.94	0.49
1:T:503:GLU:HG2	1:T:514:LYS:HE2	1.94	0.49
1:V:199:LEU:HD22	1:V:324:THR:HG21	1.93	0.49
1:Y:199:LEU:HD22	1:Y:324:THR:HG21	1.94	0.49
1:c:357:GLN:HG2	1:c:520:GLN:HB3	1.94	0.49
1:g:127:HIS:CD2	1:g:238:THR:HG22	2.44	0.49
1:j:357:GLN:HG2	1:j:520:GLN:HB3	1.95	0.49
1:v:357:GLN:HG2	1:v:520:GLN:HB3	1.94	0.49
1:v:503:GLU:HG2	1:v:514:LYS:HE2	1.94	0.49
1:1:357:GLN:HG2	1:1:520:GLN:HB3	1.94	0.49
1:2:357:GLN:HG2	1:2:520:GLN:HB3	1.94	0.49
1:6:357:GLN:HG2	1:6:520:GLN:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:109:GLN:NE2	1:I:488:ARG:O	2.45	0.49
1:B:357:GLN:HG2	1:B:520:GLN:HB3	1.95	0.49
1:C:127:HIS:CD2	1:C:238:THR:HG22	2.44	0.49
1:D:199:LEU:HD22	1:D:324:THR:HG21	1.93	0.49
1:D:503:GLU:HG2	1:D:514:LYS:HE2	1.94	0.49
1:P:410:THR:H	1:P:413:ASN:HD22	1.61	0.49
1:P:503:GLU:HG2	1:P:514:LYS:HE2	1.94	0.49
1:Q:488:ARG:O	1:R:109:GLN:NE2	2.45	0.49
1:R:199:LEU:HD22	1:R:324:THR:HG21	1.93	0.49
1:S:357:GLN:HG2	1:S:520:GLN:HB3	1.94	0.49
1:V:410:THR:H	1:V:413:ASN:HD22	1.61	0.49
1:e:357:GLN:HG2	1:e:520:GLN:HB3	1.95	0.49
1:g:371:ASN:HD22	1:g:524:TRP:HB3	1.75	0.49
1:i:503:GLU:HG2	1:i:514:LYS:HE2	1.94	0.49
1:j:410:THR:H	1:j:413:ASN:HD22	1.61	0.49
1:j:503:GLU:HG2	1:j:514:LYS:HE2	1.94	0.49
1:n:503:GLU:HG2	1:n:514:LYS:HE2	1.94	0.49
1:p:410:THR:H	1:p:413:ASN:HD22	1.61	0.49
1:q:199:LEU:HD22	1:q:324:THR:HG21	1.93	0.49
1:r:357:GLN:HG2	1:r:520:GLN:HB3	1.94	0.49
1:t:503:GLU:HG2	1:t:514:LYS:HE2	1.94	0.49
1:8:503:GLU:HG2	1:8:514:LYS:HE2	1.94	0.49
1:A:357:GLN:HG2	1:A:520:GLN:HB3	1.94	0.49
1:N:503:GLU:HG2	1:N:514:LYS:HE2	1.94	0.49
1:P:199:LEU:HD22	1:P:324:THR:HG21	1.93	0.49
1:U:488:ARG:O	1:V:109:GLN:NE2	2.46	0.49
1:W:410:THR:H	1:W:413:ASN:HD22	1.61	0.49
1:Z:503:GLU:HG2	1:Z:514:LYS:HE2	1.94	0.49
1:g:357:GLN:HG2	1:g:520:GLN:HB3	1.95	0.49
1:i:488:ARG:O	1:l:109:GLN:NE2	2.46	0.49
1:k:199:LEU:HD22	1:k:324:THR:HG21	1.93	0.49
1:u:488:ARG:O	1:l:109:GLN:NE2	2.45	0.49
1:8:199:LEU:HD22	1:8:324:THR:HG21	1.93	0.49
1:C:199:LEU:HD22	1:C:324:THR:HG21	1.93	0.49
1:C:357:GLN:HG2	1:C:520:GLN:HB3	1.95	0.49
1:E:109:GLN:NE2	1:P:488:ARG:O	2.46	0.49
1:J:410:THR:H	1:J:413:ASN:HD22	1.61	0.49
1:M:503:GLU:HG2	1:M:514:LYS:HE2	1.94	0.49
1:N:488:ARG:O	1:O:109:GLN:NE2	2.46	0.49
1:V:503:GLU:HG2	1:V:514:LYS:HE2	1.94	0.49
1:Z:199:LEU:HD22	1:Z:324:THR:HG21	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:503:GLU:HG2	1:d:514:LYS:HE2	1.94	0.49
1:g:109:GLN:NE2	1:z:488:ARG:O	2.46	0.49
1:g:199:LEU:HD22	1:g:324:THR:HG21	1.93	0.49
1:k:503:GLU:HG2	1:k:514:LYS:HE2	1.94	0.49
1:p:503:GLU:HG2	1:p:514:LYS:HE2	1.94	0.49
1:u:357:GLN:HG2	1:u:520:GLN:HB3	1.95	0.49
1:1:127:HIS:CD2	1:1:238:THR:HG22	2.44	0.49
1:6:410:THR:H	1:6:413:ASN:HD22	1.61	0.49
1:C:109:GLN:NE2	1:L:488:ARG:O	2.46	0.49
1:I:357:GLN:HG2	1:I:520:GLN:HB3	1.95	0.49
1:W:287:TYR:OH	1:Y:309:GLY:O	2.28	0.49
1:Y:488:ARG:O	1:Z:109:GLN:NE2	2.46	0.49
1:a:199:LEU:HD22	1:a:324:THR:HG21	1.93	0.49
1:h:503:GLU:HG2	1:h:514:LYS:HE2	1.94	0.49
1:j:199:LEU:HD22	1:j:324:THR:HG21	1.93	0.49
1:q:109:GLN:NE2	1:x:488:ARG:O	2.46	0.49
1:2:410:THR:H	1:2:413:ASN:HD22	1.61	0.49
1:3:503:GLU:HG2	1:3:514:LYS:HE2	1.94	0.49
1:E:199:LEU:HD22	1:E:324:THR:HG21	1.93	0.49
1:E:503:GLU:HG2	1:E:514:LYS:HE2	1.94	0.49
1:G:109:GLN:NE2	1:H:488:ARG:O	2.46	0.49
1:S:199:LEU:HD22	1:S:324:THR:HG21	1.93	0.49
1:S:503:GLU:HG2	1:S:514:LYS:HE2	1.94	0.49
1:a:109:GLN:NE2	1:3:488:ARG:O	2.46	0.49
1:a:488:ARG:O	1:3:109:GLN:NE2	2.46	0.49
1:a:503:GLU:HG2	1:a:514:LYS:HE2	1.94	0.49
1:b:503:GLU:HG2	1:b:514:LYS:HE2	1.94	0.49
1:c:503:GLU:HG2	1:c:514:LYS:HE2	1.94	0.49
1:e:503:GLU:HG2	1:e:514:LYS:HE2	1.94	0.49
1:i:357:GLN:HG2	1:i:520:GLN:HB3	1.94	0.49
1:j:488:ARG:O	1:w:109:GLN:NE2	2.46	0.49
1:l:410:THR:H	1:l:413:ASN:HD22	1.61	0.49
1:m:109:GLN:NE2	1:r:488:ARG:O	2.46	0.49
1:q:488:ARG:O	1:x:109:GLN:NE2	2.45	0.49
1:r:503:GLU:HG2	1:r:514:LYS:HE2	1.94	0.49
1:t:109:GLN:NE2	1:5:488:ARG:O	2.46	0.49
1:5:410:THR:H	1:5:413:ASN:HD22	1.61	0.49
1:7:488:ARG:O	1:8:109:GLN:NE2	2.46	0.49
1:8:410:THR:H	1:8:413:ASN:HD22	1.61	0.49
1:D:357:GLN:HG2	1:D:520:GLN:HB3	1.94	0.49
1:H:410:THR:H	1:H:413:ASN:HD22	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:109:GLN:NE2	1:R:488:ARG:O	2.45	0.49
1:S:109:GLN:NE2	1:T:488:ARG:O	2.46	0.49
1:S:488:ARG:O	1:T:109:GLN:NE2	2.46	0.49
1:Y:357:GLN:HG2	1:Y:520:GLN:HB3	1.94	0.49
1:Z:410:THR:H	1:Z:413:ASN:HD22	1.61	0.49
1:a:294:MET:HE3	1:a:382:LEU:HD11	1.95	0.49
1:c:294:MET:HE3	1:c:382:LEU:HD11	1.95	0.49
1:e:294:MET:HE3	1:e:382:LEU:HD11	1.95	0.49
1:f:199:LEU:HD22	1:f:324:THR:HG21	1.93	0.49
1:m:410:THR:H	1:m:413:ASN:HD22	1.61	0.49
1:m:488:ARG:O	1:r:109:GLN:NE2	2.46	0.49
1:q:89:CYS:HB3	1:s:261:PRO:HG2	1.94	0.49
1:r:199:LEU:HD22	1:r:324:THR:HG21	1.93	0.49
1:w:357:GLN:HG2	1:w:520:GLN:HB3	1.94	0.49
1:x:357:GLN:HG2	1:x:520:GLN:HB3	1.95	0.49
1:3:199:LEU:HD22	1:3:324:THR:HG21	1.93	0.49
1:C:163:HIS:HB2	1:C:421:ARG:HH22	1.78	0.49
1:C:294:MET:HE3	1:C:382:LEU:HD11	1.95	0.49
1:E:357:GLN:HG2	1:E:520:GLN:HB3	1.94	0.49
1:F:410:THR:H	1:F:413:ASN:HD22	1.61	0.49
1:G:294:MET:HE3	1:G:382:LEU:HD11	1.95	0.49
1:J:163:HIS:HB2	1:J:421:ARG:HH22	1.78	0.49
1:N:357:GLN:HG2	1:N:520:GLN:HB3	1.95	0.49
1:O:410:THR:H	1:O:413:ASN:HD22	1.61	0.49
1:Q:357:GLN:HG2	1:Q:520:GLN:HB3	1.95	0.49
1:R:163:HIS:HB2	1:R:421:ARG:HH22	1.78	0.49
1:T:410:THR:H	1:T:413:ASN:HD22	1.61	0.49
1:b:199:LEU:HD22	1:b:324:THR:HG21	1.93	0.49
1:c:163:HIS:HB2	1:c:421:ARG:HH22	1.78	0.49
1:f:503:GLU:HG2	1:f:514:LYS:HE2	1.94	0.49
1:g:163:HIS:HB2	1:g:421:ARG:HH22	1.78	0.49
1:t:294:MET:HE3	1:t:382:LEU:HD11	1.95	0.49
1:y:503:GLU:HG2	1:y:514:LYS:HE2	1.94	0.49
1:2:163:HIS:HB2	1:2:421:ARG:HH22	1.78	0.49
1:3:294:MET:HE3	1:3:382:LEU:HD11	1.95	0.49
1:7:357:GLN:HG2	1:7:520:GLN:HB3	1.95	0.49
1:B:503:GLU:HG2	1:B:514:LYS:HE2	1.94	0.48
1:C:410:THR:H	1:C:413:ASN:HD22	1.61	0.48
1:D:109:GLN:NE2	1:M:488:ARG:O	2.46	0.48
1:E:488:ARG:O	1:P:109:GLN:NE2	2.46	0.48
1:F:503:GLU:HG2	1:F:514:LYS:HE2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:163:HIS:HB2	1:M:421:ARG:HH22	1.79	0.48
1:O:503:GLU:HG2	1:O:514:LYS:HE2	1.94	0.48
1:R:294:MET:HE3	1:R:382:LEU:HD11	1.95	0.48
1:W:488:ARG:O	1:X:109:GLN:NE2	2.46	0.48
1:Y:503:GLU:HG2	1:Y:514:LYS:HE2	1.94	0.48
1:b:109:GLN:NE2	1:c:488:ARG:O	2.46	0.48
1:b:488:ARG:O	1:c:109:GLN:NE2	2.46	0.48
1:e:163:HIS:HB2	1:e:421:ARG:HH22	1.78	0.48
1:e:410:THR:H	1:e:413:ASN:HD22	1.61	0.48
1:g:294:MET:HE3	1:g:382:LEU:HD11	1.95	0.48
1:h:163:HIS:HB2	1:h:421:ARG:HH22	1.79	0.48
1:i:163:HIS:HB2	1:i:421:ARG:HH22	1.78	0.48
1:j:109:GLN:NE2	1:w:488:ARG:O	2.46	0.48
1:k:357:GLN:HG2	1:k:520:GLN:HB3	1.95	0.48
1:l:503:GLU:HG2	1:l:514:LYS:HE2	1.94	0.48
1:o:109:GLN:NE2	1:6:488:ARG:O	2.46	0.48
1:q:163:HIS:HB2	1:q:421:ARG:HH22	1.78	0.48
1:q:357:GLN:HG2	1:q:520:GLN:HB3	1.94	0.48
1:v:109:GLN:NE2	1:y:488:ARG:O	2.46	0.48
1:v:163:HIS:HB2	1:v:421:ARG:HH22	1.78	0.48
1:w:199:LEU:HD22	1:w:324:THR:HG21	1.93	0.48
1:w:503:GLU:HG2	1:w:514:LYS:HE2	1.94	0.48
1:y:410:THR:H	1:y:413:ASN:HD22	1.61	0.48
1:z:410:THR:H	1:z:413:ASN:HD22	1.61	0.48
1:1:410:THR:H	1:1:413:ASN:HD22	1.61	0.48
1:7:503:GLU:HG2	1:7:514:LYS:HE2	1.94	0.48
1:A:163:HIS:HB2	1:A:421:ARG:HH22	1.79	0.48
1:J:109:GLN:NE2	1:K:488:ARG:O	2.46	0.48
1:U:109:GLN:NE2	1:V:488:ARG:O	2.46	0.48
1:V:294:MET:HE3	1:V:382:LEU:HD11	1.95	0.48
1:W:503:GLU:HG2	1:W:514:LYS:HE2	1.94	0.48
1:e:109:GLN:NE2	1:f:488:ARG:O	2.46	0.48
1:e:488:ARG:O	1:f:109:GLN:NE2	2.46	0.48
1:h:488:ARG:O	1:k:109:GLN:NE2	2.46	0.48
1:m:294:MET:HE3	1:m:382:LEU:HD11	1.95	0.48
1:p:108:PRO:HB2	1:s:489:PRO:HD3	1.95	0.48
1:z:357:GLN:HG2	1:z:520:GLN:HB3	1.94	0.48
1:1:503:GLU:HG2	1:1:514:LYS:HE2	1.94	0.48
1:2:109:GLN:NE2	1:4:488:ARG:O	2.46	0.48
1:A:109:GLN:NE2	1:F:488:ARG:O	2.46	0.48
1:J:294:MET:HE3	1:J:382:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:163:HIS:HB2	1:K:421:ARG:HH22	1.78	0.48
1:K:294:MET:HE3	1:K:382:LEU:HD11	1.95	0.48
1:L:410:THR:H	1:L:413:ASN:HD22	1.61	0.48
1:N:163:HIS:HB2	1:N:421:ARG:HH22	1.79	0.48
1:P:163:HIS:HB2	1:P:421:ARG:HH22	1.78	0.48
1:R:268:ALA:HB3	1:S:354:GLN:HG3	1.95	0.48
1:W:109:GLN:NE2	1:X:488:ARG:O	2.47	0.48
1:X:163:HIS:HB2	1:X:421:ARG:HH22	1.78	0.48
1:Y:410:THR:H	1:Y:413:ASN:HD22	1.61	0.48
1:Z:163:HIS:HB2	1:Z:421:ARG:HH22	1.78	0.48
1:d:109:GLN:NE2	1:n:488:ARG:O	2.46	0.48
1:d:488:ARG:O	1:n:109:GLN:NE2	2.46	0.48
1:g:410:THR:H	1:g:413:ASN:HD22	1.61	0.48
1:g:488:ARG:O	1:z:109:GLN:NE2	2.46	0.48
1:h:109:GLN:NE2	1:k:488:ARG:O	2.46	0.48
1:j:163:HIS:HB2	1:j:421:ARG:HH22	1.78	0.48
1:o:488:ARG:O	1:6:109:GLN:NE2	2.46	0.48
1:p:294:MET:HE3	1:p:382:LEU:HD11	1.95	0.48
1:q:294:MET:HE3	1:q:382:LEU:HD11	1.95	0.48
1:s:357:GLN:HG2	1:s:520:GLN:HB3	1.95	0.48
1:2:294:MET:HE3	1:2:382:LEU:HD11	1.95	0.48
1:3:410:THR:H	1:3:413:ASN:HD22	1.61	0.48
1:4:294:MET:HE3	1:4:382:LEU:HD11	1.95	0.48
1:8:163:HIS:HB2	1:8:421:ARG:HH22	1.78	0.48
1:C:488:ARG:O	1:L:109:GLN:NE2	2.46	0.48
1:D:488:ARG:O	1:M:109:GLN:NE2	2.46	0.48
1:I:410:THR:H	1:I:413:ASN:HD22	1.61	0.48
1:J:488:ARG:O	1:K:109:GLN:NE2	2.46	0.48
1:L:357:GLN:HG2	1:L:520:GLN:HB3	1.94	0.48
1:R:357:GLN:HG2	1:R:520:GLN:HB3	1.95	0.48
1:S:294:MET:HE3	1:S:382:LEU:HD11	1.95	0.48
1:T:294:MET:HE3	1:T:382:LEU:HD11	1.95	0.48
1:U:357:GLN:HG2	1:U:520:GLN:HB3	1.94	0.48
1:c:410:THR:H	1:c:413:ASN:HD22	1.61	0.48
1:f:294:MET:HE3	1:f:382:LEU:HD11	1.95	0.48
1:f:357:GLN:HG2	1:f:520:GLN:HB3	1.95	0.48
1:o:163:HIS:HB2	1:o:421:ARG:HH22	1.79	0.48
1:t:127:HIS:CD2	1:t:238:THR:HG22	2.44	0.48
1:v:410:THR:H	1:v:413:ASN:HD22	1.61	0.48
1:4:163:HIS:HB2	1:4:421:ARG:HH22	1.78	0.48
1:6:503:GLU:HG2	1:6:514:LYS:HE2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:THR:H	1:A:413:ASN:HD22	1.61	0.48
1:A:488:ARG:O	1:F:109:GLN:NE2	2.46	0.48
1:B:294:MET:HE3	1:B:382:LEU:HD11	1.95	0.48
1:E:294:MET:HE3	1:E:382:LEU:HD11	1.95	0.48
1:G:127:HIS:CD2	1:G:238:THR:HG22	2.44	0.48
1:N:109:GLN:NE2	1:O:488:ARG:O	2.46	0.48
1:N:489:PRO:HD3	1:O:108:PRO:HB2	1.96	0.48
1:Q:163:HIS:HB2	1:Q:421:ARG:HH22	1.78	0.48
1:a:357:GLN:HG2	1:a:520:GLN:HB3	1.94	0.48
1:a:410:THR:H	1:a:413:ASN:HD22	1.61	0.48
1:b:294:MET:HE3	1:b:382:LEU:HD11	1.95	0.48
1:b:357:GLN:HG2	1:b:520:GLN:HB3	1.95	0.48
1:i:489:PRO:HD3	1:l:108:PRO:HB2	1.96	0.48
1:n:163:HIS:HB2	1:n:421:ARG:HH22	1.78	0.48
1:q:268:ALA:HB3	1:r:354:GLN:HG3	1.95	0.48
1:r:294:MET:HE3	1:r:382:LEU:HD11	1.95	0.48
1:u:410:THR:H	1:u:413:ASN:HD22	1.61	0.48
1:v:488:ARG:O	1:y:109:GLN:NE2	2.46	0.48
1:w:294:MET:HE3	1:w:382:LEU:HD11	1.95	0.48
1:x:294:MET:HE3	1:x:382:LEU:HD11	1.95	0.48
1:y:294:MET:HE3	1:y:382:LEU:HD11	1.95	0.48
1:1:294:MET:HE3	1:1:382:LEU:HD11	1.95	0.48
1:2:488:ARG:O	1:4:109:GLN:NE2	2.46	0.48
1:7:410:THR:H	1:7:413:ASN:HD22	1.61	0.48
1:B:108:PRO:HB2	1:I:489:PRO:HD3	1.96	0.48
1:F:294:MET:HE3	1:F:382:LEU:HD11	1.95	0.48
1:H:199:LEU:HD22	1:H:324:THR:HG21	1.93	0.48
1:H:248:ASN:HB2	1:H:531:LYS:H	1.79	0.48
1:H:357:GLN:HG2	1:H:520:GLN:HB3	1.95	0.48
1:I:503:GLU:HG2	1:I:514:LYS:HE2	1.94	0.48
1:M:88:ARG:O	1:M:194:PRO:HD2	2.14	0.48
1:X:248:ASN:HB2	1:X:531:LYS:H	1.79	0.48
1:Y:109:GLN:NE2	1:Z:488:ARG:O	2.46	0.48
1:d:163:HIS:HB2	1:d:421:ARG:HH22	1.78	0.48
1:d:294:MET:HE3	1:d:382:LEU:HD11	1.95	0.48
1:h:410:THR:H	1:h:413:ASN:HD22	1.61	0.48
1:i:109:GLN:NE2	1:l:488:ARG:O	2.46	0.48
1:k:163:HIS:HB2	1:k:421:ARG:HH22	1.78	0.48
1:n:294:MET:HE3	1:n:382:LEU:HD11	1.95	0.48
1:q:88:ARG:O	1:q:194:PRO:HD2	2.14	0.48
1:q:354:GLN:HG3	1:s:268:ALA:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:489:PRO:HD3	1:l:108:PRO:HB2	1.96	0.48
1:w:88:ARG:O	1:w:194:PRO:HD2	2.14	0.48
1:x:163:HIS:HB2	1:x:421:ARG:HH22	1.78	0.48
1:5:248:ASN:HB2	1:5:531:LYS:H	1.79	0.48
1:5:357:GLN:HG2	1:5:520:GLN:HB3	1.94	0.48
1:7:109:GLN:NE2	1:8:488:ARG:O	2.47	0.48
1:D:163:HIS:HB2	1:D:421:ARG:HH22	1.78	0.48
1:E:88:ARG:O	1:E:194:PRO:HD2	2.14	0.48
1:E:354:GLN:HG3	1:F:268:ALA:HB3	1.96	0.48
1:F:248:ASN:HB2	1:F:531:LYS:H	1.79	0.48
1:G:410:THR:H	1:G:413:ASN:HD22	1.61	0.48
1:I:88:ARG:O	1:I:194:PRO:HD2	2.14	0.48
1:N:88:ARG:O	1:N:194:PRO:HD2	2.14	0.48
1:N:248:ASN:HB2	1:N:531:LYS:H	1.79	0.48
1:O:88:ARG:O	1:O:194:PRO:HD2	2.14	0.48
1:O:354:GLN:HG3	1:n:268:ALA:HB3	1.96	0.48
1:Q:294:MET:HE3	1:Q:382:LEU:HD11	1.95	0.48
1:R:88:ARG:O	1:R:194:PRO:HD2	2.14	0.48
1:U:199:LEU:O	1:U:209:GLU:HG2	2.14	0.48
1:W:294:MET:HE3	1:W:382:LEU:HD11	1.95	0.48
1:X:88:ARG:O	1:X:194:PRO:HD2	2.14	0.48
1:Y:88:ARG:O	1:Y:194:PRO:HD2	2.14	0.48
1:Z:88:ARG:O	1:Z:194:PRO:HD2	2.14	0.48
1:d:88:ARG:O	1:d:194:PRO:HD2	2.14	0.48
1:d:268:ALA:HB3	1:l:354:GLN:HG3	1.96	0.48
1:h:88:ARG:O	1:h:194:PRO:HD2	2.14	0.48
1:h:199:LEU:O	1:h:209:GLU:HG2	2.14	0.48
1:h:294:MET:HE3	1:h:382:LEU:HD11	1.95	0.48
1:i:88:ARG:O	1:i:194:PRO:HD2	2.14	0.48
1:i:248:ASN:HB2	1:i:531:LYS:H	1.79	0.48
1:j:268:ALA:HB3	1:k:354:GLN:HG3	1.96	0.48
1:l:88:ARG:O	1:l:194:PRO:HD2	2.14	0.48
1:o:88:ARG:O	1:o:194:PRO:HD2	2.14	0.48
1:o:248:ASN:HB2	1:o:531:LYS:H	1.79	0.48
1:t:163:HIS:HB2	1:t:421:ARG:HH22	1.78	0.48
1:u:88:ARG:O	1:u:194:PRO:HD2	2.14	0.48
1:u:294:MET:HE3	1:u:382:LEU:HD11	1.95	0.48
1:x:268:ALA:HB3	1:y:354:GLN:HG3	1.96	0.48
1:y:248:ASN:HB2	1:y:531:LYS:H	1.79	0.48
1:8:88:ARG:O	1:8:194:PRO:HD2	2.14	0.48
1:F:354:GLN:HG3	1:Q:268:ALA:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:163:HIS:HB2	1:G:421:ARG:HH22	1.79	0.48
1:G:199:LEU:O	1:G:209:GLU:HG2	2.14	0.48
1:G:488:ARG:O	1:H:109:GLN:NE2	2.46	0.48
1:I:294:MET:HE3	1:I:382:LEU:HD11	1.95	0.48
1:L:248:ASN:HB2	1:L:531:LYS:H	1.79	0.48
1:M:199:LEU:O	1:M:209:GLU:HG2	2.14	0.48
1:M:410:THR:H	1:M:413:ASN:HD22	1.61	0.48
1:S:127:HIS:CD2	1:S:238:THR:HG22	2.44	0.48
1:T:357:GLN:HG2	1:T:520:GLN:HB3	1.94	0.48
1:W:163:HIS:HB2	1:W:421:ARG:HH22	1.78	0.48
1:b:108:PRO:HB2	1:c:489:PRO:HD3	1.96	0.48
1:c:199:LEU:O	1:c:209:GLU:HG2	2.14	0.48
1:d:199:LEU:O	1:d:209:GLU:HG2	2.14	0.48
1:e:489:PRO:HD3	1:f:108:PRO:HB2	1.96	0.48
1:h:108:PRO:HB2	1:k:489:PRO:HD3	1.96	0.48
1:k:410:THR:H	1:k:413:ASN:HD22	1.61	0.48
1:m:163:HIS:HB2	1:m:421:ARG:HH22	1.78	0.48
1:m:357:GLN:HG2	1:m:520:GLN:HB3	1.94	0.48
1:n:88:ARG:O	1:n:194:PRO:HD2	2.14	0.48
1:o:108:PRO:HB2	1:6:489:PRO:HD3	1.96	0.48
1:o:357:GLN:HG2	1:o:520:GLN:HB3	1.94	0.48
1:r:127:HIS:CD2	1:r:238:THR:HG22	2.44	0.48
1:s:199:LEU:O	1:s:209:GLU:HG2	2.14	0.48
1:t:199:LEU:O	1:t:209:GLU:HG2	2.14	0.48
1:u:248:ASN:HB2	1:u:531:LYS:H	1.79	0.48
1:u:503:GLU:HG2	1:u:514:LYS:HE2	1.94	0.48
1:v:294:MET:HE3	1:v:382:LEU:HD11	1.95	0.48
1:w:354:GLN:HG3	1:y:268:ALA:HB3	1.96	0.48
1:w:410:THR:H	1:w:413:ASN:HD22	1.61	0.48
1:x:88:ARG:O	1:x:194:PRO:HD2	2.14	0.48
1:3:357:GLN:HG2	1:3:520:GLN:HB3	1.94	0.48
1:5:199:LEU:HD22	1:5:324:THR:HG21	1.93	0.48
1:6:294:MET:HE3	1:6:382:LEU:HD11	1.95	0.48
1:7:88:ARG:O	1:7:194:PRO:HD2	2.14	0.48
1:C:248:ASN:HB2	1:C:531:LYS:H	1.79	0.48
1:D:354:GLN:HG3	1:P:268:ALA:HB3	1.96	0.48
1:D:410:THR:H	1:D:413:ASN:HD22	1.61	0.48
1:D:489:PRO:HD3	1:M:108:PRO:HB2	1.96	0.48
1:I:248:ASN:HB2	1:I:531:LYS:H	1.79	0.48
1:K:248:ASN:HB2	1:K:531:LYS:H	1.79	0.48
1:M:294:MET:HE3	1:M:382:LEU:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:268:ALA:HB3	1:m:354:GLN:HG3	1.96	0.48
1:O:357:GLN:HG2	1:O:520:GLN:HB3	1.94	0.48
1:Q:88:ARG:O	1:Q:194:PRO:HD2	2.14	0.48
1:X:354:GLN:HG3	1:e:268:ALA:HB3	1.95	0.48
1:Z:294:MET:HE3	1:Z:382:LEU:HD11	1.95	0.48
1:b:410:THR:H	1:b:413:ASN:HD22	1.61	0.48
1:e:199:LEU:O	1:e:209:GLU:HG2	2.14	0.48
1:j:199:LEU:O	1:j:209:GLU:HG2	2.14	0.48
1:l:357:GLN:HG2	1:l:520:GLN:HB3	1.94	0.48
1:m:88:ARG:O	1:m:194:PRO:HD2	2.14	0.48
1:n:199:LEU:O	1:n:209:GLU:HG2	2.14	0.48
1:q:248:ASN:HB2	1:q:531:LYS:H	1.79	0.48
1:s:163:HIS:HB2	1:s:421:ARG:HH22	1.78	0.48
1:t:488:ARG:O	1:5:109:GLN:NE2	2.47	0.48
1:z:248:ASN:HB2	1:z:531:LYS:H	1.79	0.48
1:3:163:HIS:HB2	1:3:421:ARG:HH22	1.78	0.48
1:4:248:ASN:HB2	1:4:531:LYS:H	1.79	0.48
1:6:163:HIS:HB2	1:6:421:ARG:HH22	1.78	0.48
1:8:294:MET:HE3	1:8:382:LEU:HD11	1.95	0.48
1:A:294:MET:HE3	1:A:382:LEU:HD11	1.95	0.48
1:C:354:GLN:HG3	1:M:268:ALA:HB3	1.96	0.48
1:D:88:ARG:O	1:D:194:PRO:HD2	2.14	0.48
1:E:108:PRO:HB2	1:P:489:PRO:HD3	1.96	0.48
1:E:410:THR:H	1:E:413:ASN:HD22	1.61	0.48
1:G:489:PRO:HD3	1:H:108:PRO:HB2	1.96	0.48
1:J:248:ASN:HB2	1:J:531:LYS:H	1.79	0.48
1:L:199:LEU:O	1:L:209:GLU:HG2	2.14	0.48
1:Q:503:GLU:HG2	1:Q:514:LYS:HE2	1.94	0.48
1:R:248:ASN:HB2	1:R:531:LYS:H	1.79	0.48
1:S:268:ALA:HB3	1:U:354:GLN:HG3	1.96	0.48
1:T:88:ARG:O	1:T:194:PRO:HD2	2.14	0.48
1:T:163:HIS:HB2	1:T:421:ARG:HH22	1.78	0.48
1:T:354:GLN:HG3	1:l:268:ALA:HB3	1.96	0.48
1:U:163:HIS:HB2	1:U:421:ARG:HH22	1.78	0.48
1:W:489:PRO:HD3	1:X:108:PRO:HB2	1.96	0.48
1:X:357:GLN:HG2	1:X:520:GLN:HB3	1.94	0.48
1:a:163:HIS:HB2	1:a:421:ARG:HH22	1.78	0.48
1:d:357:GLN:HG2	1:d:520:GLN:HB3	1.94	0.48
1:f:127:HIS:CD2	1:f:238:THR:HG22	2.44	0.48
1:f:248:ASN:HB2	1:f:531:LYS:H	1.79	0.48
1:g:248:ASN:HB2	1:g:531:LYS:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:108:PRO:HB2	1:l:489:PRO:HD3	1.96	0.48
1:j:489:PRO:HD3	1:w:108:PRO:HB2	1.96	0.48
1:k:127:HIS:CD2	1:k:238:THR:HG22	2.44	0.48
1:p:357:GLN:HG2	1:p:520:GLN:HB3	1.95	0.48
1:s:294:MET:HE3	1:s:382:LEU:HD11	1.95	0.48
1:t:410:THR:H	1:t:413:ASN:HD22	1.61	0.48
1:t:489:PRO:HD3	1:5:108:PRO:HB2	1.96	0.48
1:x:503:GLU:HG2	1:x:514:LYS:HE2	1.94	0.48
1:y:163:HIS:HB2	1:y:421:ARG:HH22	1.78	0.48
1:1:163:HIS:HB2	1:1:421:ARG:HH22	1.78	0.48
1:4:88:ARG:O	1:4:194:PRO:HD2	2.14	0.48
1:5:88:ARG:O	1:5:194:PRO:HD2	2.14	0.48
1:5:294:MET:HE3	1:5:382:LEU:HD11	1.95	0.48
1:C:268:ALA:HB3	1:b:354:GLN:HG3	1.96	0.47
1:H:88:ARG:O	1:H:194:PRO:HD2	2.14	0.47
1:H:354:GLN:HG3	1:Y:268:ALA:HB3	1.96	0.47
1:K:88:ARG:O	1:K:194:PRO:HD2	2.14	0.47
1:M:248:ASN:HB2	1:M:531:LYS:H	1.79	0.47
1:N:127:HIS:CD2	1:N:238:THR:HG22	2.44	0.47
1:O:294:MET:HE3	1:O:382:LEU:HD11	1.95	0.47
1:P:199:LEU:O	1:P:209:GLU:HG2	2.14	0.47
1:R:199:LEU:O	1:R:209:GLU:HG2	2.14	0.47
1:S:199:LEU:O	1:S:209:GLU:HG2	2.14	0.47
1:T:127:HIS:CD2	1:T:238:THR:HG22	2.44	0.47
1:V:88:ARG:O	1:V:194:PRO:HD2	2.14	0.47
1:Y:108:PRO:HB2	1:Z:489:PRO:HD3	1.96	0.47
1:b:88:ARG:O	1:b:194:PRO:HD2	2.14	0.47
1:b:127:HIS:CD2	1:b:238:THR:HG22	2.44	0.47
1:b:248:ASN:HB2	1:b:531:LYS:H	1.79	0.47
1:c:268:ALA:HB3	1:o:354:GLN:HG3	1.96	0.47
1:f:354:GLN:HG3	1:g:268:ALA:HB3	1.96	0.47
1:g:354:GLN:HG3	1:h:268:ALA:HB3	1.96	0.47
1:h:248:ASN:HB2	1:h:531:LYS:H	1.79	0.47
1:h:357:GLN:HG2	1:h:520:GLN:HB3	1.94	0.47
1:k:88:ARG:O	1:k:194:PRO:HD2	2.14	0.47
1:l:127:HIS:CD2	1:l:238:THR:HG22	2.44	0.47
1:l:294:MET:HE3	1:l:382:LEU:HD11	1.95	0.47
1:n:357:GLN:HG2	1:n:520:GLN:HB3	1.94	0.47
1:o:410:THR:H	1:o:413:ASN:HD22	1.61	0.47
1:p:88:ARG:O	1:p:194:PRO:HD2	2.14	0.47
1:p:163:HIS:HB2	1:p:421:ARG:HH22	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:199:LEU:O	1:q:209:GLU:HG2	2.14	0.47
1:2:248:ASN:HB2	1:2:531:LYS:H	1.79	0.47
1:5:354:GLN:HG3	1:7:268:ALA:HB3	1.96	0.47
1:7:108:PRO:HB2	1:8:489:PRO:HD3	1.96	0.47
1:B:88:ARG:O	1:B:194:PRO:HD2	2.14	0.47
1:B:163:HIS:HB2	1:B:421:ARG:HH22	1.78	0.47
1:C:88:ARG:O	1:C:194:PRO:HD2	2.14	0.47
1:F:163:HIS:HB2	1:F:421:ARG:HH22	1.79	0.47
1:L:88:ARG:O	1:L:194:PRO:HD2	2.14	0.47
1:N:108:PRO:HB2	1:O:489:PRO:HD3	1.97	0.47
1:P:88:ARG:O	1:P:194:PRO:HD2	2.14	0.47
1:T:268:ALA:HB3	1:d:354:GLN:HG3	1.96	0.47
1:U:294:MET:HE3	1:U:382:LEU:HD11	1.95	0.47
1:V:163:HIS:HB2	1:V:421:ARG:HH22	1.78	0.47
1:V:357:GLN:HG2	1:V:520:GLN:HB3	1.95	0.47
1:W:268:ALA:HB3	1:Y:354:GLN:HG3	1.96	0.47
1:Y:294:MET:HE3	1:Y:382:LEU:HD11	1.95	0.47
1:d:108:PRO:HB2	1:n:489:PRO:HD3	1.96	0.47
1:d:489:PRO:HD3	1:n:108:PRO:HB2	1.96	0.47
1:f:88:ARG:O	1:f:194:PRO:HD2	2.14	0.47
1:f:410:THR:H	1:f:413:ASN:HD22	1.61	0.47
1:g:88:ARG:O	1:g:194:PRO:HD2	2.14	0.47
1:q:410:THR:H	1:q:413:ASN:HD22	1.61	0.47
1:r:199:LEU:O	1:r:209:GLU:HG2	2.14	0.47
1:z:88:ARG:O	1:z:194:PRO:HD2	2.14	0.47
1:z:199:LEU:O	1:z:209:GLU:HG2	2.14	0.47
1:2:108:PRO:HB2	1:4:489:PRO:HD3	1.96	0.47
1:6:268:ALA:HB3	1:7:354:GLN:HG3	1.96	0.47
1:D:127:HIS:CD2	1:D:238:THR:HG22	2.44	0.47
1:H:294:MET:HE3	1:H:382:LEU:HD11	1.95	0.47
1:J:108:PRO:HB2	1:K:489:PRO:HD3	1.96	0.47
1:M:357:GLN:HG2	1:M:520:GLN:HB3	1.94	0.47
1:Q:489:PRO:HD3	1:R:108:PRO:HB2	1.96	0.47
1:S:489:PRO:HD3	1:T:108:PRO:HB2	1.96	0.47
1:V:248:ASN:HB2	1:V:531:LYS:H	1.79	0.47
1:X:410:THR:H	1:X:413:ASN:HD22	1.61	0.47
1:g:199:LEU:O	1:g:209:GLU:HG2	2.14	0.47
1:i:127:HIS:CD2	1:i:238:THR:HG22	2.44	0.47
1:k:199:LEU:O	1:k:209:GLU:HG2	2.14	0.47
1:m:268:ALA:HB3	1:n:354:GLN:HG3	1.96	0.47
1:C:199:LEU:O	1:C:209:GLU:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:108:PRO:HB2	1:M:489:PRO:HD3	1.96	0.47
1:D:199:LEU:O	1:D:209:GLU:HG2	2.14	0.47
1:E:248:ASN:HB2	1:E:531:LYS:H	1.79	0.47
1:L:163:HIS:HB2	1:L:421:ARG:HH22	1.78	0.47
1:L:294:MET:HE3	1:L:382:LEU:HD11	1.95	0.47
1:M:354:GLN:HG3	1:b:268:ALA:HB3	1.95	0.47
1:P:294:MET:HE3	1:P:382:LEU:HD11	1.95	0.47
1:R:410:THR:H	1:R:413:ASN:HD22	1.61	0.47
1:T:199:LEU:O	1:T:209:GLU:HG2	2.14	0.47
1:g:108:PRO:HB2	1:z:489:PRO:HD3	1.96	0.47
1:h:489:PRO:HD3	1:k:108:PRO:HB2	1.96	0.47
1:j:88:ARG:O	1:j:194:PRO:HD2	2.14	0.47
1:o:294:MET:HE3	1:o:382:LEU:HD11	1.95	0.47
1:p:199:LEU:O	1:p:209:GLU:HG2	2.14	0.47
1:p:248:ASN:HB2	1:p:531:LYS:H	1.79	0.47
1:q:108:PRO:HB2	1:x:489:PRO:HD3	1.96	0.47
1:r:163:HIS:HB2	1:r:421:ARG:HH22	1.78	0.47
1:w:248:ASN:HB2	1:w:531:LYS:H	1.79	0.47
1:z:294:MET:HE3	1:z:382:LEU:HD11	1.95	0.47
1:1:88:ARG:O	1:1:194:PRO:HD2	2.14	0.47
1:7:163:HIS:HB2	1:7:421:ARG:HH22	1.78	0.47
1:7:248:ASN:HB2	1:7:531:LYS:H	1.79	0.47
1:A:489:PRO:HD3	1:F:108:PRO:HB2	1.96	0.47
1:B:183:GLU:OE1	1:B:183:GLU:N	2.48	0.47
1:B:270:TYR:O	1:J:350:GLU:HG2	2.15	0.47
1:C:108:PRO:HB2	1:L:489:PRO:HD3	1.96	0.47
1:C:183:GLU:OE1	1:C:183:GLU:N	2.48	0.47
1:E:163:HIS:HB2	1:E:421:ARG:HH22	1.78	0.47
1:G:248:ASN:HB2	1:G:531:LYS:H	1.79	0.47
1:H:199:LEU:O	1:H:209:GLU:HG2	2.14	0.47
1:O:127:HIS:CD2	1:O:238:THR:HG22	2.44	0.47
1:P:85:LYS:HD2	1:P:311:ASP:HB2	1.97	0.47
1:S:410:THR:H	1:S:413:ASN:HD22	1.61	0.47
1:U:108:PRO:HB2	1:V:489:PRO:HD3	1.96	0.47
1:V:199:LEU:O	1:V:209:GLU:HG2	2.14	0.47
1:Y:248:ASN:HB2	1:Y:531:LYS:H	1.79	0.47
1:a:489:PRO:HD3	1:3:108:PRO:HB2	1.96	0.47
1:b:183:GLU:N	1:b:183:GLU:OE1	2.48	0.47
1:d:410:THR:H	1:d:413:ASN:HD22	1.61	0.47
1:e:88:ARG:O	1:e:194:PRO:HD2	2.14	0.47
1:f:163:HIS:HB2	1:f:421:ARG:HH22	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:183:GLU:N	1:g:183:GLU:OE1	2.48	0.47
1:m:108:PRO:HB2	1:r:489:PRO:HD3	1.96	0.47
1:m:199:LEU:O	1:m:209:GLU:HG2	2.14	0.47
1:n:410:THR:H	1:n:413:ASN:HD22	1.61	0.47
1:p:488:ARG:O	1:s:109:GLN:NE2	2.47	0.47
1:r:410:THR:H	1:r:413:ASN:HD22	1.61	0.47
1:s:183:GLU:OE1	1:s:183:GLU:N	2.48	0.47
1:t:88:ARG:O	1:t:194:PRO:HD2	2.14	0.47
1:v:489:PRO:HD3	1:y:108:PRO:HB2	1.96	0.47
1:w:199:LEU:O	1:w:209:GLU:HG2	2.14	0.47
1:x:199:LEU:O	1:x:209:GLU:HG2	2.14	0.47
1:z:85:LYS:HD2	1:z:311:ASP:HB2	1.97	0.47
1:1:183:GLU:N	1:1:183:GLU:OE1	2.48	0.47
1:1:270:TYR:O	1:2:350:GLU:HG2	2.15	0.47
1:3:199:LEU:O	1:3:209:GLU:HG2	2.14	0.47
1:5:199:LEU:O	1:5:209:GLU:HG2	2.14	0.47
1:A:88:ARG:O	1:A:194:PRO:HD2	2.14	0.47
1:A:199:LEU:O	1:A:209:GLU:HG2	2.14	0.47
1:G:88:ARG:O	1:G:194:PRO:HD2	2.14	0.47
1:L:85:LYS:HD2	1:L:311:ASP:HB2	1.97	0.47
1:Q:410:THR:H	1:Q:413:ASN:HD22	1.61	0.47
1:S:163:HIS:HB2	1:S:421:ARG:HH22	1.78	0.47
1:U:183:GLU:OE1	1:U:183:GLU:N	2.48	0.47
1:V:268:ALA:HB3	1:e:354:GLN:HG3	1.96	0.47
1:X:294:MET:HE3	1:X:382:LEU:HD11	1.95	0.47
1:Y:163:HIS:HB2	1:Y:421:ARG:HH22	1.78	0.47
1:Y:489:PRO:HD3	1:Z:108:PRO:HB2	1.96	0.47
1:a:108:PRO:HB2	1:3:489:PRO:HD3	1.96	0.47
1:a:199:LEU:O	1:a:209:GLU:HG2	2.14	0.47
1:f:183:GLU:OE1	1:f:183:GLU:N	2.48	0.47
1:f:268:ALA:HB3	1:h:354:GLN:HG3	1.95	0.47
1:j:85:LYS:HD2	1:j:311:ASP:HB2	1.97	0.47
1:j:294:MET:HE3	1:j:382:LEU:HD11	1.95	0.47
1:k:183:GLU:OE1	1:k:183:GLU:N	2.48	0.47
1:s:88:ARG:O	1:s:194:PRO:HD2	2.14	0.47
1:t:248:ASN:HB2	1:t:531:LYS:H	1.79	0.47
1:z:268:ALA:HB3	1:1:354:GLN:HG3	1.97	0.47
1:7:294:MET:HE3	1:7:382:LEU:HD11	1.95	0.47
1:8:199:LEU:O	1:8:209:GLU:HG2	2.14	0.47
1:B:268:ALA:HB3	1:J:354:GLN:HG3	1.95	0.47
1:B:354:GLN:HG3	1:L:268:ALA:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:410:THR:H	1:B:413:ASN:HD22	1.61	0.47
1:D:183:GLU:N	1:D:183:GLU:OE1	2.48	0.47
1:E:199:LEU:O	1:E:209:GLU:HG2	2.14	0.47
1:F:199:LEU:O	1:F:209:GLU:HG2	2.14	0.47
1:H:183:GLU:OE1	1:H:183:GLU:N	2.48	0.47
1:J:88:ARG:O	1:J:194:PRO:HD2	2.14	0.47
1:J:268:ALA:HB3	1:L:354:GLN:HG3	1.96	0.47
1:M:350:GLU:HG2	1:b:270:TYR:O	2.15	0.47
1:N:199:LEU:O	1:N:209:GLU:HG2	2.14	0.47
1:N:268:ALA:HB3	1:P:354:GLN:HG3	1.96	0.47
1:Q:199:LEU:O	1:Q:209:GLU:HG2	2.14	0.47
1:R:354:GLN:HG3	1:U:268:ALA:HB3	1.97	0.47
1:T:85:LYS:HD2	1:T:311:ASP:HB2	1.97	0.47
1:U:85:LYS:HD2	1:U:311:ASP:HB2	1.97	0.47
1:U:88:ARG:O	1:U:194:PRO:HD2	2.14	0.47
1:U:248:ASN:HB2	1:U:531:LYS:H	1.79	0.47
1:U:489:PRO:HD3	1:V:108:PRO:HB2	1.96	0.47
1:V:85:LYS:HD2	1:V:311:ASP:HB2	1.97	0.47
1:W:108:PRO:HB2	1:X:489:PRO:HD3	1.96	0.47
1:W:199:LEU:O	1:W:209:GLU:HG2	2.14	0.47
1:W:248:ASN:HB2	1:W:531:LYS:H	1.79	0.47
1:X:350:GLU:HG2	1:e:270:TYR:O	2.15	0.47
1:Z:199:LEU:O	1:Z:209:GLU:HG2	2.14	0.47
1:a:85:LYS:HD2	1:a:311:ASP:HB2	1.97	0.47
1:a:88:ARG:O	1:a:194:PRO:HD2	2.14	0.47
1:a:248:ASN:HB2	1:a:531:LYS:H	1.79	0.47
1:b:163:HIS:HB2	1:b:421:ARG:HH22	1.78	0.47
1:c:85:LYS:HD2	1:c:311:ASP:HB2	1.97	0.47
1:c:88:ARG:O	1:c:194:PRO:HD2	2.14	0.47
1:c:270:TYR:O	1:o:350:GLU:HG2	2.15	0.47
1:e:85:LYS:HD2	1:e:311:ASP:HB2	1.97	0.47
1:e:248:ASN:HB2	1:e:531:LYS:H	1.79	0.47
1:i:199:LEU:O	1:i:209:GLU:HG2	2.14	0.47
1:i:268:ALA:HB3	1:j:354:GLN:HG3	1.96	0.47
1:l:199:LEU:O	1:l:209:GLU:HG2	2.14	0.47
1:m:85:LYS:HD2	1:m:311:ASP:HB2	1.97	0.47
1:n:183:GLU:OE1	1:n:183:GLU:N	2.48	0.47
1:o:489:PRO:HD3	1:6:108:PRO:HB2	1.96	0.47
1:p:85:LYS:HD2	1:p:311:ASP:HB2	1.97	0.47
1:q:183:GLU:OE1	1:q:183:GLU:N	2.48	0.47
1:s:85:LYS:HD2	1:s:311:ASP:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:410:THR:H	1:s:413:ASN:HD22	1.61	0.47
1:u:108:PRO:HB2	1:l:489:PRO:HD3	1.96	0.47
1:u:199:LEU:O	1:u:209:GLU:HG2	2.14	0.47
1:v:88:ARG:O	1:v:194:PRO:HD2	2.14	0.47
1:v:199:LEU:O	1:v:209:GLU:HG2	2.14	0.47
1:w:163:HIS:HB2	1:w:421:ARG:HH22	1.78	0.47
1:x:410:THR:H	1:x:413:ASN:HD22	1.61	0.47
1:y:199:LEU:O	1:y:209:GLU:HG2	2.14	0.47
1:z:163:HIS:HB2	1:z:421:ARG:HH22	1.78	0.47
1:z:354:GLN:HG3	1:2:268:ALA:HB3	1.96	0.47
1:2:88:ARG:O	1:2:194:PRO:HD2	2.14	0.47
1:2:199:LEU:O	1:2:209:GLU:HG2	2.14	0.47
1:3:85:LYS:HD2	1:3:311:ASP:HB2	1.97	0.47
1:5:85:LYS:HD2	1:5:311:ASP:HB2	1.97	0.47
1:5:163:HIS:HB2	1:5:421:ARG:HH22	1.78	0.47
1:6:199:LEU:O	1:6:209:GLU:HG2	2.14	0.47
1:6:248:ASN:HB2	1:6:531:LYS:H	1.79	0.47
1:7:199:LEU:O	1:7:209:GLU:HG2	2.14	0.47
1:7:489:PRO:HD3	1:8:108:PRO:HB2	1.96	0.47
1:A:248:ASN:HB2	1:A:531:LYS:H	1.79	0.47
1:A:268:ALA:HB3	1:G:354:GLN:HG3	1.96	0.47
1:B:266:ARG:HH12	1:J:101:GLN:HE22	1.63	0.47
1:G:183:GLU:N	1:G:183:GLU:OE1	2.48	0.47
1:H:85:LYS:HD2	1:H:311:ASP:HB2	1.97	0.47
1:I:199:LEU:O	1:I:209:GLU:HG2	2.14	0.47
1:J:199:LEU:O	1:J:209:GLU:HG2	2.14	0.47
1:O:199:LEU:O	1:O:209:GLU:HG2	2.14	0.47
1:O:248:ASN:HB2	1:O:531:LYS:H	1.79	0.47
1:P:183:GLU:OE1	1:P:183:GLU:N	2.48	0.47
1:R:183:GLU:OE1	1:R:183:GLU:N	2.48	0.47
1:S:108:PRO:HB2	1:T:489:PRO:HD3	1.96	0.47
1:T:248:ASN:HB2	1:T:531:LYS:H	1.79	0.47
1:W:88:ARG:O	1:W:194:PRO:HD2	2.14	0.47
1:X:85:LYS:HD2	1:X:311:ASP:HB2	1.97	0.47
1:Y:199:LEU:O	1:Y:209:GLU:HG2	2.14	0.47
1:a:183:GLU:OE1	1:a:183:GLU:N	2.48	0.47
1:b:199:LEU:O	1:b:209:GLU:HG2	2.14	0.47
1:c:248:ASN:HB2	1:c:531:LYS:H	1.79	0.47
1:c:354:GLN:HG3	1:p:268:ALA:HB3	1.96	0.47
1:d:183:GLU:OE1	1:d:183:GLU:N	2.48	0.47
1:d:270:TYR:O	1:l:350:GLU:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:270:TYR:O	1:h:350:GLU:HG2	2.15	0.47
1:i:183:GLU:OE1	1:i:183:GLU:N	2.48	0.47
1:l:248:ASN:HB2	1:l:531:LYS:H	1.79	0.47
1:m:183:GLU:OE1	1:m:183:GLU:N	2.48	0.47
1:r:88:ARG:O	1:r:194:PRO:HD2	2.14	0.47
1:s:248:ASN:HB2	1:s:531:LYS:H	1.79	0.47
1:t:183:GLU:OE1	1:t:183:GLU:N	2.48	0.47
1:t:354:GLN:HG3	1:v:268:ALA:HB3	1.96	0.47
1:u:268:ALA:HB3	1:v:354:GLN:HG3	1.96	0.47
1:y:88:ARG:O	1:y:194:PRO:HD2	2.14	0.47
1:1:266:ARG:HH12	1:2:101:GLN:HE22	1.63	0.47
1:1:268:ALA:HB3	1:2:354:GLN:HG3	1.95	0.47
1:3:88:ARG:O	1:3:194:PRO:HD2	2.14	0.47
1:3:183:GLU:OE1	1:3:183:GLU:N	2.48	0.47
1:3:248:ASN:HB2	1:3:531:LYS:H	1.79	0.47
1:4:410:THR:H	1:4:413:ASN:HD22	1.61	0.47
1:5:183:GLU:OE1	1:5:183:GLU:N	2.48	0.47
1:A:354:GLN:HG3	1:I:268:ALA:HB3	1.96	0.47
1:F:85:LYS:HD2	1:F:311:ASP:HB2	1.97	0.47
1:F:88:ARG:O	1:F:194:PRO:HD2	2.14	0.47
1:H:163:HIS:HB2	1:H:421:ARG:HH22	1.78	0.47
1:K:350:GLU:HG2	1:8:270:TYR:O	2.15	0.47
1:K:354:GLN:HG3	1:8:268:ALA:HB3	1.96	0.47
1:K:410:THR:H	1:K:413:ASN:HD22	1.61	0.47
1:N:183:GLU:OE1	1:N:183:GLU:N	2.48	0.47
1:N:294:MET:HE3	1:N:382:LEU:HD11	1.95	0.47
1:O:270:TYR:O	1:m:350:GLU:HG2	2.15	0.47
1:O:350:GLU:HG2	1:n:270:TYR:O	2.15	0.47
1:T:183:GLU:N	1:T:183:GLU:OE1	2.48	0.47
1:U:410:THR:H	1:U:413:ASN:HD22	1.61	0.47
1:Z:268:ALA:HB3	1:4:354:GLN:HG3	1.96	0.47
1:Z:270:TYR:O	1:4:350:GLU:HG2	2.15	0.47
1:d:248:ASN:HB2	1:d:531:LYS:H	1.79	0.47
1:g:85:LYS:HD2	1:g:311:ASP:HB2	1.97	0.47
1:i:350:GLU:HG2	1:k:270:TYR:O	2.15	0.47
1:i:354:GLN:HG3	1:k:268:ALA:HB3	1.96	0.47
1:j:183:GLU:N	1:j:183:GLU:OE1	2.48	0.47
1:k:294:MET:HE3	1:k:382:LEU:HD11	1.95	0.47
1:l:163:HIS:HB2	1:l:421:ARG:HH22	1.78	0.47
1:m:489:PRO:HD3	1:r:108:PRO:HB2	1.96	0.47
1:u:270:TYR:O	1:v:350:GLU:HG2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:248:ASN:HB2	1:v:531:LYS:H	1.79	0.47
1:5:268:ALA:HB3	1:6:354:GLN:HG3	1.96	0.47
1:6:88:ARG:O	1:6:194:PRO:HD2	2.14	0.47
1:A:350:GLU:HG2	1:I:270:TYR:O	2.15	0.47
1:B:248:ASN:HB2	1:B:531:LYS:H	1.79	0.47
1:B:489:PRO:HD3	1:I:108:PRO:HB2	1.96	0.47
1:C:489:PRO:HD3	1:L:108:PRO:HB2	1.96	0.47
1:E:85:LYS:HD2	1:E:311:ASP:HB2	1.97	0.47
1:I:85:LYS:HD2	1:I:311:ASP:HB2	1.97	0.47
1:I:163:HIS:HB2	1:I:421:ARG:HH22	1.78	0.47
1:L:137:GLN:NE2	1:L:463:LEU:HD11	2.30	0.47
1:N:410:THR:H	1:N:413:ASN:HD22	1.61	0.47
1:O:163:HIS:HB2	1:O:421:ARG:HH22	1.78	0.47
1:S:88:ARG:O	1:S:194:PRO:HD2	2.14	0.47
1:W:85:LYS:HD2	1:W:311:ASP:HB2	1.97	0.47
1:Z:137:GLN:NE2	1:Z:463:LEU:HD11	2.30	0.47
1:Z:183:GLU:N	1:Z:183:GLU:OE1	2.48	0.47
1:b:85:LYS:HD2	1:b:311:ASP:HB2	1.97	0.47
1:f:199:LEU:O	1:f:209:GLU:HG2	2.14	0.47
1:i:270:TYR:O	1:j:350:GLU:HG2	2.15	0.47
1:i:294:MET:HE3	1:i:382:LEU:HD11	1.95	0.47
1:j:270:TYR:O	1:k:350:GLU:HG2	2.15	0.47
1:m:248:ASN:HB2	1:m:531:LYS:H	1.79	0.47
1:n:248:ASN:HB2	1:n:531:LYS:H	1.79	0.47
1:o:85:LYS:HD2	1:o:311:ASP:HB2	1.97	0.47
1:t:85:LYS:HD2	1:t:311:ASP:HB2	1.97	0.47
1:u:85:LYS:HD2	1:u:311:ASP:HB2	1.97	0.47
1:u:163:HIS:HB2	1:u:421:ARG:HH22	1.78	0.47
1:w:85:LYS:HD2	1:w:311:ASP:HB2	1.97	0.47
1:y:85:LYS:HD2	1:y:311:ASP:HB2	1.97	0.47
1:z:137:GLN:NE2	1:z:463:LEU:HD11	2.30	0.47
1:z:183:GLU:N	1:z:183:GLU:OE1	2.48	0.47
1:2:183:GLU:OE1	1:2:183:GLU:N	2.48	0.47
1:6:270:TYR:O	1:7:350:GLU:HG2	2.15	0.47
1:8:137:GLN:NE2	1:8:463:LEU:HD11	2.30	0.47
1:C:85:LYS:HD2	1:C:311:ASP:HB2	1.97	0.46
1:D:137:GLN:NE2	1:D:463:LEU:HD11	2.30	0.46
1:D:248:ASN:HB2	1:D:531:LYS:H	1.79	0.46
1:D:268:ALA:HB3	1:N:354:GLN:HG3	1.96	0.46
1:D:350:GLU:HG2	1:P:270:TYR:O	2.15	0.46
1:G:85:LYS:HD2	1:G:311:ASP:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:108:PRO:HB2	1:H:489:PRO:HD3	1.96	0.46
1:H:268:ALA:HB3	1:W:354:GLN:HG3	1.96	0.46
1:I:183:GLU:OE1	1:I:183:GLU:N	2.48	0.46
1:J:85:LYS:HD2	1:J:311:ASP:HB2	1.97	0.46
1:J:183:GLU:OE1	1:J:183:GLU:N	2.48	0.46
1:M:137:GLN:NE2	1:M:463:LEU:HD11	2.31	0.46
1:N:270:TYR:O	1:P:350:GLU:HG2	2.16	0.46
1:O:183:GLU:N	1:O:183:GLU:OE1	2.48	0.46
1:P:248:ASN:HB2	1:P:531:LYS:H	1.79	0.46
1:S:85:LYS:HD2	1:S:311:ASP:HB2	1.97	0.46
1:T:350:GLU:HG2	1:l:270:TYR:O	2.15	0.46
1:W:270:TYR:O	1:Y:350:GLU:HG2	2.15	0.46
1:Z:350:GLU:HG2	1:3:270:TYR:O	2.15	0.46
1:f:85:LYS:HD2	1:f:311:ASP:HB2	1.97	0.46
1:f:350:GLU:HG2	1:g:270:TYR:O	2.15	0.46
1:h:137:GLN:NE2	1:h:463:LEU:HD11	2.31	0.46
1:i:410:THR:H	1:i:413:ASN:HD22	1.61	0.46
1:k:137:GLN:NE2	1:k:463:LEU:HD11	2.30	0.46
1:r:85:LYS:HD2	1:r:311:ASP:HB2	1.97	0.46
1:r:248:ASN:HB2	1:r:531:LYS:H	1.79	0.46
1:t:108:PRO:HB2	1:5:489:PRO:HD3	1.96	0.46
1:1:137:GLN:NE2	1:1:463:LEU:HD11	2.30	0.46
1:2:85:LYS:HD2	1:2:311:ASP:HB2	1.97	0.46
1:6:85:LYS:HD2	1:6:311:ASP:HB2	1.97	0.46
1:7:85:LYS:HD2	1:7:311:ASP:HB2	1.97	0.46
1:8:183:GLU:OE1	1:8:183:GLU:N	2.48	0.46
1:B:137:GLN:NE2	1:B:463:LEU:HD11	2.30	0.46
1:C:137:GLN:NE2	1:C:463:LEU:HD11	2.30	0.46
1:C:270:TYR:O	1:b:350:GLU:HG2	2.16	0.46
1:D:270:TYR:O	1:N:350:GLU:HG2	2.15	0.46
1:D:294:MET:HE3	1:D:382:LEU:HD11	1.95	0.46
1:L:183:GLU:N	1:L:183:GLU:OE1	2.48	0.46
1:R:85:LYS:HD2	1:R:311:ASP:HB2	1.97	0.46
1:X:183:GLU:OE1	1:X:183:GLU:N	2.48	0.46
1:Y:85:LYS:HD2	1:Y:311:ASP:HB2	1.97	0.46
1:Z:85:LYS:HD2	1:Z:311:ASP:HB2	1.97	0.46
1:b:489:PRO:HD3	1:c:108:PRO:HB2	1.96	0.46
1:e:108:PRO:HB2	1:f:489:PRO:HD3	1.96	0.46
1:g:137:GLN:NE2	1:g:463:LEU:HD11	2.30	0.46
1:g:489:PRO:HD3	1:z:108:PRO:HB2	1.96	0.46
1:k:248:ASN:HB2	1:k:531:LYS:H	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:183:GLU:OE1	1:l:183:GLU:N	2.48	0.46
1:q:101:GLN:HE22	1:s:266:ARG:HH12	1.61	0.46
1:w:268:ALA:HB3	1:x:354:GLN:HG3	1.96	0.46
1:w:350:GLU:HG2	1:y:270:TYR:O	2.15	0.46
1:1:248:ASN:HB2	1:1:531:LYS:H	1.79	0.46
1:5:137:GLN:NE2	1:5:463:LEU:HD11	2.30	0.46
1:8:85:LYS:HD2	1:8:311:ASP:HB2	1.97	0.46
1:D:85:LYS:HD2	1:D:311:ASP:HB2	1.97	0.46
1:E:350:GLU:HG2	1:F:270:TYR:O	2.15	0.46
1:H:137:GLN:NE2	1:H:463:LEU:HD11	2.30	0.46
1:O:85:LYS:HD2	1:O:311:ASP:HB2	1.97	0.46
1:R:270:TYR:O	1:S:350:GLU:HG2	2.15	0.46
1:S:248:ASN:HB2	1:S:531:LYS:H	1.79	0.46
1:W:183:GLU:N	1:W:183:GLU:OE1	2.48	0.46
1:a:270:TYR:O	1:8:350:GLU:HG2	2.15	0.46
1:g:350:GLU:HG2	1:h:270:TYR:O	2.15	0.46
1:j:108:PRO:HB2	1:w:489:PRO:HD3	1.96	0.46
1:j:248:ASN:HB2	1:j:531:LYS:H	1.79	0.46
1:k:85:LYS:HD2	1:k:311:ASP:HB2	1.97	0.46
1:q:85:LYS:HD2	1:q:311:ASP:HB2	1.97	0.46
1:q:266:ARG:HH12	1:r:101:GLN:HE22	1.63	0.46
1:u:183:GLU:OE1	1:u:183:GLU:N	2.48	0.46
1:x:270:TYR:O	1:y:350:GLU:HG2	2.15	0.46
1:5:270:TYR:O	1:6:350:GLU:HG2	2.15	0.46
1:C:350:GLU:HG2	1:M:270:TYR:O	2.15	0.46
1:E:489:PRO:HD3	1:P:108:PRO:HB2	1.96	0.46
1:F:350:GLU:HG2	1:Q:270:TYR:O	2.15	0.46
1:H:270:TYR:O	1:W:350:GLU:HG2	2.15	0.46
1:Q:183:GLU:OE1	1:Q:183:GLU:N	2.48	0.46
1:R:266:ARG:HH12	1:S:101:GLN:HE22	1.63	0.46
1:S:183:GLU:OE1	1:S:183:GLU:N	2.48	0.46
1:T:137:GLN:NE2	1:T:463:LEU:HD11	2.30	0.46
1:X:137:GLN:NE2	1:X:463:LEU:HD11	2.31	0.46
1:Y:183:GLU:OE1	1:Y:183:GLU:N	2.48	0.46
1:l:85:LYS:HD2	1:l:311:ASP:HB2	1.97	0.46
1:m:137:GLN:NE2	1:m:463:LEU:HD11	2.30	0.46
1:o:183:GLU:N	1:o:183:GLU:OE1	2.48	0.46
1:o:199:LEU:O	1:o:209:GLU:HG2	2.14	0.46
1:q:270:TYR:O	1:r:350:GLU:HG2	2.15	0.46
1:t:268:ALA:HB3	1:u:354:GLN:HG3	1.96	0.46
1:x:183:GLU:OE1	1:x:183:GLU:N	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:248:ASN:HB2	1:x:531:LYS:H	1.79	0.46
1:4:137:GLN:NE2	1:4:463:LEU:HD11	2.30	0.46
1:6:183:GLU:OE1	1:6:183:GLU:N	2.48	0.46
1:E:268:ALA:HB3	1:Q:354:GLN:HG3	1.96	0.46
1:G:268:ALA:HB3	1:I:354:GLN:HG3	1.96	0.46
1:H:412:GLU:OE1	1:H:412:GLU:N	2.49	0.46
1:I:412:GLU:OE1	1:I:412:GLU:N	2.49	0.46
1:K:137:GLN:NE2	1:K:463:LEU:HD11	2.30	0.46
1:K:183:GLU:OE1	1:K:183:GLU:N	2.48	0.46
1:Q:248:ASN:HB2	1:Q:531:LYS:H	1.79	0.46
1:R:412:GLU:OE1	1:R:412:GLU:N	2.49	0.46
1:S:40:THR:OG1	1:S:131:TYR:HB2	2.16	0.46
1:S:270:TYR:O	1:U:350:GLU:HG2	2.15	0.46
1:V:137:GLN:NE2	1:V:463:LEU:HD11	2.30	0.46
1:V:183:GLU:OE1	1:V:183:GLU:N	2.48	0.46
1:Y:137:GLN:NE2	1:Y:463:LEU:HD11	2.31	0.46
1:Z:354:GLN:HG3	1:3:268:ALA:HB3	1.96	0.46
1:a:137:GLN:NE2	1:a:463:LEU:HD11	2.30	0.46
1:a:268:ALA:HB3	1:8:354:GLN:HG3	1.96	0.46
1:c:183:GLU:OE1	1:c:183:GLU:N	2.48	0.46
1:m:270:TYR:O	1:n:350:GLU:HG2	2.15	0.46
1:o:137:GLN:NE2	1:o:463:LEU:HD11	2.31	0.46
1:p:183:GLU:OE1	1:p:183:GLU:N	2.48	0.46
1:p:489:PRO:HD3	1:s:108:PRO:HB2	1.97	0.46
1:r:40:THR:OG1	1:r:131:TYR:HB2	2.16	0.46
1:r:183:GLU:N	1:r:183:GLU:OE1	2.48	0.46
1:r:268:ALA:HB3	1:s:354:GLN:HG3	1.98	0.46
1:s:137:GLN:NE2	1:s:463:LEU:HD11	2.30	0.46
1:u:412:GLU:OE1	1:u:412:GLU:N	2.49	0.46
1:w:270:TYR:O	1:x:350:GLU:HG2	2.15	0.46
1:z:350:GLU:HG2	1:2:270:TYR:O	2.15	0.46
1:4:183:GLU:N	1:4:183:GLU:OE1	2.48	0.46
1:4:412:GLU:OE1	1:4:412:GLU:N	2.49	0.46
1:6:412:GLU:OE1	1:6:412:GLU:N	2.49	0.46
1:7:183:GLU:N	1:7:183:GLU:OE1	2.48	0.46
1:A:183:GLU:OE1	1:A:183:GLU:N	2.48	0.46
1:E:137:GLN:NE2	1:E:463:LEU:HD11	2.31	0.46
1:E:270:TYR:O	1:Q:350:GLU:HG2	2.15	0.46
1:F:183:GLU:OE1	1:F:183:GLU:N	2.48	0.46
1:J:137:GLN:NE2	1:J:463:LEU:HD11	2.30	0.46
1:J:270:TYR:O	1:L:350:GLU:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:412:GLU:N	1:K:412:GLU:OE1	2.49	0.46
1:O:137:GLN:NE2	1:O:463:LEU:HD11	2.30	0.46
1:S:137:GLN:NE2	1:S:463:LEU:HD11	2.30	0.46
1:U:137:GLN:NE2	1:U:463:LEU:HD11	2.30	0.46
1:V:354:GLN:HG3	1:X:268:ALA:HB3	1.96	0.46
1:W:412:GLU:OE1	1:W:412:GLU:N	2.49	0.46
1:X:412:GLU:OE1	1:X:412:GLU:N	2.49	0.46
1:c:40:THR:OG1	1:c:131:TYR:HB2	2.16	0.46
1:e:40:THR:OG1	1:e:131:TYR:HB2	2.16	0.46
1:e:183:GLU:OE1	1:e:183:GLU:N	2.48	0.46
1:n:137:GLN:NE2	1:n:463:LEU:HD11	2.30	0.46
1:o:412:GLU:OE1	1:o:412:GLU:N	2.49	0.46
1:p:137:GLN:NE2	1:p:463:LEU:HD11	2.31	0.46
1:q:412:GLU:N	1:q:412:GLU:OE1	2.49	0.46
1:t:350:GLU:HG2	1:v:270:TYR:O	2.15	0.46
1:w:137:GLN:NE2	1:w:463:LEU:HD11	2.30	0.46
1:3:137:GLN:NE2	1:3:463:LEU:HD11	2.30	0.46
1:5:412:GLU:OE1	1:5:412:GLU:N	2.49	0.46
1:7:137:GLN:NE2	1:7:463:LEU:HD11	2.31	0.46
1:B:85:LYS:HD2	1:B:311:ASP:HB2	1.97	0.46
1:G:270:TYR:O	1:I:350:GLU:HG2	2.15	0.46
1:K:199:LEU:O	1:K:209:GLU:HG2	2.14	0.46
1:M:183:GLU:OE1	1:M:183:GLU:N	2.48	0.46
1:M:412:GLU:OE1	1:M:412:GLU:N	2.49	0.46
1:N:412:GLU:N	1:N:412:GLU:OE1	2.49	0.46
1:T:270:TYR:O	1:d:350:GLU:HG2	2.15	0.46
1:X:199:LEU:O	1:X:209:GLU:HG2	2.14	0.46
1:g:412:GLU:OE1	1:g:412:GLU:N	2.49	0.46
1:h:183:GLU:OE1	1:h:183:GLU:N	2.48	0.46
1:h:412:GLU:OE1	1:h:412:GLU:N	2.49	0.46
1:i:412:GLU:N	1:i:412:GLU:OE1	2.49	0.46
1:l:137:GLN:NE2	1:l:463:LEU:HD11	2.30	0.46
1:o:270:TYR:O	1:p:350:GLU:HG2	2.15	0.46
1:q:489:PRO:HD3	1:x:108:PRO:HB2	1.96	0.46
1:r:137:GLN:NE2	1:r:463:LEU:HD11	2.30	0.46
1:t:270:TYR:O	1:u:350:GLU:HG2	2.15	0.46
1:v:183:GLU:OE1	1:v:183:GLU:N	2.48	0.46
1:y:137:GLN:NE2	1:y:463:LEU:HD11	2.30	0.46
1:y:183:GLU:OE1	1:y:183:GLU:N	2.48	0.46
1:1:199:LEU:O	1:1:209:GLU:HG2	2.14	0.46
1:4:199:LEU:O	1:4:209:GLU:HG2	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:270:TYR:O	1:G:350:GLU:HG2	2.15	0.46
1:B:199:LEU:O	1:B:209:GLU:HG2	2.14	0.46
1:C:412:GLU:N	1:C:412:GLU:OE1	2.49	0.46
1:E:183:GLU:OE1	1:E:183:GLU:N	2.48	0.46
1:E:412:GLU:OE1	1:E:412:GLU:N	2.49	0.46
1:F:40:THR:OG1	1:F:131:TYR:HB2	2.16	0.46
1:O:412:GLU:OE1	1:O:412:GLU:N	2.49	0.46
1:V:350:GLU:HG2	1:X:270:TYR:O	2.15	0.46
1:W:137:GLN:NE2	1:W:463:LEU:HD11	2.30	0.46
1:c:350:GLU:HG2	1:p:270:TYR:O	2.16	0.46
1:d:137:GLN:NE2	1:d:463:LEU:HD11	2.30	0.46
1:i:85:LYS:HD2	1:i:311:ASP:HB2	1.97	0.46
1:l:412:GLU:OE1	1:l:412:GLU:N	2.49	0.46
1:m:40:THR:OG1	1:m:131:TYR:HB2	2.16	0.46
1:o:268:ALA:HB3	1:p:354:GLN:HG3	1.96	0.46
1:q:101:GLN:HE22	1:s:266:ARG:NH1	2.14	0.46
1:t:40:THR:OG1	1:t:131:TYR:HB2	2.16	0.46
1:u:137:GLN:NE2	1:u:463:LEU:HD11	2.31	0.46
1:x:137:GLN:NE2	1:x:463:LEU:HD11	2.30	0.46
1:1:85:LYS:HD2	1:1:311:ASP:HB2	1.97	0.46
1:2:137:GLN:NE2	1:2:463:LEU:HD11	2.30	0.46
1:6:137:GLN:NE2	1:6:463:LEU:HD11	2.30	0.46
1:A:85:LYS:HD2	1:A:311:ASP:HB2	1.97	0.46
1:F:137:GLN:NE2	1:F:463:LEU:HD11	2.31	0.46
1:G:40:THR:OG1	1:G:131:TYR:HB2	2.16	0.46
1:I:137:GLN:NE2	1:I:463:LEU:HD11	2.30	0.46
1:J:489:PRO:HD3	1:K:108:PRO:HB2	1.96	0.46
1:K:85:LYS:HD2	1:K:311:ASP:HB2	1.97	0.46
1:L:40:THR:OG1	1:L:131:TYR:HB2	2.16	0.46
1:Q:40:THR:OG1	1:Q:131:TYR:HB2	2.16	0.46
1:Q:108:PRO:HB2	1:R:489:PRO:HD3	1.96	0.46
1:Q:137:GLN:NE2	1:Q:463:LEU:HD11	2.30	0.46
1:S:412:GLU:N	1:S:412:GLU:OE1	2.49	0.46
1:T:40:THR:OG1	1:T:131:TYR:HB2	2.16	0.46
1:T:412:GLU:OE1	1:T:412:GLU:N	2.49	0.46
1:l:40:THR:OG1	1:l:131:TYR:HB2	2.16	0.46
1:p:511:HIS:HD2	1:s:488:ARG:HD2	1.81	0.46
1:w:183:GLU:N	1:w:183:GLU:OE1	2.48	0.46
1:w:412:GLU:OE1	1:w:412:GLU:N	2.49	0.46
1:x:40:THR:OG1	1:x:131:TYR:HB2	2.16	0.46
1:y:40:THR:OG1	1:y:131:TYR:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:40:THR:OG1	1:z:131:TYR:HB2	2.16	0.46
1:2:489:PRO:HD3	1:4:108:PRO:HB2	1.96	0.46
1:3:350:GLU:HG2	1:4:270:TYR:O	2.15	0.46
1:4:85:LYS:HD2	1:4:311:ASP:HB2	1.97	0.46
1:B:412:GLU:OE1	1:B:412:GLU:N	2.49	0.46
1:K:268:ALA:HB3	1:a:354:GLN:HG3	1.96	0.46
1:K:270:TYR:O	1:a:350:GLU:HG2	2.15	0.46
1:M:85:LYS:HD2	1:M:311:ASP:HB2	1.97	0.46
1:N:85:LYS:HD2	1:N:311:ASP:HB2	1.97	0.46
1:O:40:THR:OG1	1:O:131:TYR:HB2	2.16	0.46
1:R:350:GLU:HG2	1:U:270:TYR:O	2.16	0.46
1:V:270:TYR:O	1:e:350:GLU:HG2	2.16	0.46
1:Z:248:ASN:HB2	1:Z:531:LYS:H	1.79	0.46
1:c:137:GLN:NE2	1:c:463:LEU:HD11	2.30	0.46
1:d:412:GLU:OE1	1:d:412:GLU:N	2.49	0.46
1:m:412:GLU:OE1	1:m:412:GLU:N	2.49	0.46
1:n:412:GLU:N	1:n:412:GLU:OE1	2.49	0.46
1:o:40:THR:OG1	1:o:131:TYR:HB2	2.16	0.46
1:v:85:LYS:HD2	1:v:311:ASP:HB2	1.97	0.46
1:8:248:ASN:HB2	1:8:531:LYS:H	1.79	0.46
1:E:40:THR:OG1	1:E:131:TYR:HB2	2.16	0.45
1:N:126:MET:HB2	1:N:241:PHE:HE2	1.82	0.45
1:Q:85:LYS:HD2	1:Q:311:ASP:HB2	1.97	0.45
1:b:137:GLN:NE2	1:b:463:LEU:HD11	2.30	0.45
1:b:412:GLU:OE1	1:b:412:GLU:N	2.49	0.45
1:f:412:GLU:N	1:f:412:GLU:OE1	2.49	0.45
1:g:40:THR:OG1	1:g:131:TYR:HB2	2.16	0.45
1:h:85:LYS:HD2	1:h:311:ASP:HB2	1.97	0.45
1:n:85:LYS:HD2	1:n:311:ASP:HB2	1.97	0.45
1:q:350:GLU:HG2	1:s:270:TYR:O	2.16	0.45
1:r:412:GLU:OE1	1:r:412:GLU:N	2.49	0.45
1:s:40:THR:OG1	1:s:131:TYR:HB2	2.16	0.45
1:w:40:THR:OG1	1:w:131:TYR:HB2	2.16	0.45
1:x:85:LYS:HD2	1:x:311:ASP:HB2	1.97	0.45
1:1:412:GLU:OE1	1:1:412:GLU:N	2.49	0.45
1:3:354:GLN:HG3	1:4:268:ALA:HB3	1.96	0.45
1:6:40:THR:OG1	1:6:131:TYR:HB2	2.16	0.45
1:C:40:THR:OG1	1:C:131:TYR:HB2	2.16	0.45
1:D:412:GLU:OE1	1:D:412:GLU:N	2.49	0.45
1:E:206:ASN:ND2	1:E:324:THR:HA	2.31	0.45
1:G:126:MET:HB2	1:G:241:PHE:HE2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:412:GLU:OE1	1:G:412:GLU:N	2.49	0.45
1:P:40:THR:OG1	1:P:131:TYR:HB2	2.16	0.45
1:Q:412:GLU:OE1	1:Q:412:GLU:N	2.49	0.45
1:Q:511:HIS:HD2	1:R:488:ARG:HD2	1.82	0.45
1:U:40:THR:OG1	1:U:131:TYR:HB2	2.16	0.45
1:W:40:THR:OG1	1:W:131:TYR:HB2	2.16	0.45
1:X:40:THR:OG1	1:X:131:TYR:HB2	2.16	0.45
1:Z:126:MET:HB2	1:Z:241:PHE:HE2	1.82	0.45
1:Z:412:GLU:OE1	1:Z:412:GLU:N	2.49	0.45
1:a:40:THR:OG1	1:a:131:TYR:HB2	2.16	0.45
1:b:40:THR:OG1	1:b:131:TYR:HB2	2.16	0.45
1:d:85:LYS:HD2	1:d:311:ASP:HB2	1.97	0.45
1:i:126:MET:HB2	1:i:241:PHE:HE2	1.82	0.45
1:j:137:GLN:NE2	1:j:463:LEU:HD11	2.30	0.45
1:j:206:ASN:ND2	1:j:324:THR:HA	2.31	0.45
1:k:412:GLU:OE1	1:k:412:GLU:N	2.49	0.45
1:t:126:MET:HB2	1:t:241:PHE:HE2	1.82	0.45
1:t:137:GLN:NE2	1:t:463:LEU:HD11	2.30	0.45
1:v:412:GLU:N	1:v:412:GLU:OE1	2.49	0.45
1:w:206:ASN:ND2	1:w:324:THR:HA	2.32	0.45
1:2:412:GLU:OE1	1:2:412:GLU:N	2.49	0.45
1:3:40:THR:OG1	1:3:131:TYR:HB2	2.16	0.45
1:8:40:THR:OG1	1:8:131:TYR:HB2	2.16	0.45
1:8:126:MET:HB2	1:8:241:PHE:HE2	1.82	0.45
1:8:412:GLU:N	1:8:412:GLU:OE1	2.49	0.45
1:A:108:PRO:HB2	1:F:489:PRO:HD3	1.96	0.45
1:A:412:GLU:OE1	1:A:412:GLU:N	2.49	0.45
1:C:346:PRO:HB3	1:C:351:TYR:HB2	1.99	0.45
1:M:206:ASN:ND2	1:M:324:THR:HA	2.32	0.45
1:N:137:GLN:NE2	1:N:463:LEU:HD11	2.30	0.45
1:P:137:GLN:NE2	1:P:463:LEU:HD11	2.30	0.45
1:Q:488:ARG:HD2	1:R:511:HIS:HD2	1.82	0.45
1:R:137:GLN:NE2	1:R:463:LEU:HD11	2.30	0.45
1:U:412:GLU:OE1	1:U:412:GLU:N	2.49	0.45
1:V:412:GLU:N	1:V:412:GLU:OE1	2.49	0.45
1:X:206:ASN:ND2	1:X:324:THR:HA	2.32	0.45
1:Z:40:THR:OG1	1:Z:131:TYR:HB2	2.16	0.45
1:Z:346:PRO:HB3	1:Z:351:TYR:HB2	1.99	0.45
1:c:126:MET:HB2	1:c:241:PHE:HE2	1.82	0.45
1:e:126:MET:HB2	1:e:241:PHE:HE2	1.82	0.45
1:e:137:GLN:NE2	1:e:463:LEU:HD11	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:137:GLN:NE2	1:f:463:LEU:HD11	2.30	0.45
1:h:206:ASN:ND2	1:h:324:THR:HA	2.32	0.45
1:o:206:ASN:ND2	1:o:324:THR:HA	2.32	0.45
1:q:137:GLN:NE2	1:q:463:LEU:HD11	2.30	0.45
1:q:488:ARG:HD2	1:x:511:HIS:HD2	1.82	0.45
1:t:412:GLU:OE1	1:t:412:GLU:N	2.49	0.45
1:v:108:PRO:HB2	1:y:489:PRO:HD3	1.96	0.45
1:v:137:GLN:NE2	1:v:463:LEU:HD11	2.30	0.45
1:x:412:GLU:OE1	1:x:412:GLU:N	2.49	0.45
1:A:137:GLN:NE2	1:A:463:LEU:HD11	2.31	0.45
1:B:488:ARG:HD2	1:I:511:HIS:HD2	1.82	0.45
1:F:412:GLU:N	1:F:412:GLU:OE1	2.49	0.45
1:I:40:THR:OG1	1:I:131:TYR:HB2	2.16	0.45
1:J:412:GLU:OE1	1:J:412:GLU:N	2.49	0.45
1:L:412:GLU:OE1	1:L:412:GLU:N	2.49	0.45
1:O:126:MET:HB2	1:O:241:PHE:HE2	1.82	0.45
1:P:126:MET:HB2	1:P:241:PHE:HE2	1.82	0.45
1:U:346:PRO:HB3	1:U:351:TYR:HB2	1.99	0.45
1:V:40:THR:OG1	1:V:131:TYR:HB2	2.16	0.45
1:V:126:MET:HB2	1:V:241:PHE:HE2	1.82	0.45
1:f:40:THR:OG1	1:f:131:TYR:HB2	2.16	0.45
1:g:346:PRO:HB3	1:g:351:TYR:HB2	1.99	0.45
1:j:40:THR:OG1	1:j:131:TYR:HB2	2.16	0.45
1:j:126:MET:HB2	1:j:241:PHE:HE2	1.82	0.45
1:l:126:MET:HB2	1:l:241:PHE:HE2	1.82	0.45
1:p:412:GLU:OE1	1:p:412:GLU:N	2.49	0.45
1:q:511:HIS:HD2	1:x:488:ARG:HD2	1.82	0.45
1:s:346:PRO:HB3	1:s:351:TYR:HB2	1.99	0.45
1:u:40:THR:OG1	1:u:131:TYR:HB2	2.16	0.45
1:u:511:HIS:HD2	1:l:488:ARG:HD2	1.82	0.45
1:7:412:GLU:OE1	1:7:412:GLU:N	2.49	0.45
1:8:346:PRO:HB3	1:8:351:TYR:HB2	1.99	0.45
1:G:137:GLN:NE2	1:G:463:LEU:HD11	2.31	0.45
1:H:350:GLU:HG2	1:Y:270:TYR:O	2.16	0.45
1:J:67:GLN:NE2	1:J:189:GLN:HB2	2.25	0.45
1:J:241:PHE:HB3	1:J:243:CYS:SG	2.57	0.45
1:N:511:HIS:HD2	1:O:488:ARG:HD2	1.82	0.45
1:P:206:ASN:ND2	1:P:324:THR:HA	2.32	0.45
1:i:137:GLN:NE2	1:i:463:LEU:HD11	2.31	0.45
1:p:488:ARG:HD2	1:s:511:HIS:HD2	1.81	0.45
1:r:206:ASN:ND2	1:r:324:THR:HA	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:412:GLU:OE1	1:s:412:GLU:N	2.49	0.45
1:v:40:THR:OG1	1:v:131:TYR:HB2	2.16	0.45
1:z:346:PRO:HB3	1:z:351:TYR:HB2	1.99	0.45
1:2:241:PHE:HB3	1:2:243:CYS:SG	2.57	0.45
1:5:206:ASN:ND2	1:5:324:THR:HA	2.31	0.45
1:5:350:GLU:HG2	1:7:270:TYR:O	2.15	0.45
1:A:40:THR:OG1	1:A:131:TYR:HB2	2.16	0.45
1:B:126:MET:HB2	1:B:241:PHE:HE2	1.82	0.45
1:D:241:PHE:HB3	1:D:243:CYS:SG	2.57	0.45
1:H:40:THR:OG1	1:H:131:TYR:HB2	2.16	0.45
1:H:206:ASN:ND2	1:H:324:THR:HA	2.32	0.45
1:H:241:PHE:HB3	1:H:243:CYS:SG	2.57	0.45
1:L:346:PRO:HB3	1:L:351:TYR:HB2	1.99	0.45
1:M:399:PHE:CG	1:M:400:PRO:HD2	2.52	0.45
1:S:206:ASN:ND2	1:S:324:THR:HA	2.31	0.45
1:W:126:MET:HB2	1:W:241:PHE:HE2	1.82	0.45
1:Y:126:MET:HB2	1:Y:241:PHE:HE2	1.82	0.45
1:Y:412:GLU:OE1	1:Y:412:GLU:N	2.49	0.45
1:b:511:HIS:HD2	1:c:488:ARG:HD2	1.82	0.45
1:e:488:ARG:HD2	1:f:511:HIS:HD2	1.82	0.45
1:g:206:ASN:ND2	1:g:324:THR:HA	2.31	0.45
1:g:399:PHE:CG	1:g:400:PRO:HD2	2.52	0.45
1:i:241:PHE:HB3	1:i:243:CYS:SG	2.57	0.45
1:j:488:ARG:HD2	1:w:511:HIS:HD2	1.82	0.45
1:p:40:THR:OG1	1:p:131:TYR:HB2	2.16	0.45
1:p:126:MET:HB2	1:p:241:PHE:HE2	1.82	0.45
1:t:206:ASN:ND2	1:t:324:THR:HA	2.31	0.45
1:v:206:ASN:ND2	1:v:324:THR:HA	2.31	0.45
1:y:412:GLU:N	1:y:412:GLU:OE1	2.49	0.45
1:z:412:GLU:OE1	1:z:412:GLU:N	2.49	0.45
1:1:40:THR:OG1	1:1:131:TYR:HB2	2.16	0.45
1:B:40:THR:OG1	1:B:131:TYR:HB2	2.16	0.45
1:B:346:PRO:HB3	1:B:351:TYR:HB2	1.99	0.45
1:B:350:GLU:HG2	1:L:270:TYR:O	2.16	0.45
1:C:206:ASN:ND2	1:C:324:THR:HA	2.31	0.45
1:C:399:PHE:CG	1:C:400:PRO:HD2	2.52	0.45
1:F:126:MET:HB2	1:F:241:PHE:HE2	1.82	0.45
1:G:206:ASN:ND2	1:G:324:THR:HA	2.31	0.45
1:G:241:PHE:HB3	1:G:243:CYS:SG	2.57	0.45
1:K:241:PHE:HB3	1:K:243:CYS:SG	2.57	0.45
1:L:241:PHE:HB3	1:L:243:CYS:SG	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:241:PHE:HB3	1:N:243:CYS:SG	2.57	0.45
1:O:399:PHE:CG	1:O:400:PRO:HD2	2.52	0.45
1:Q:126:MET:HB2	1:Q:241:PHE:HE2	1.82	0.45
1:W:346:PRO:HB3	1:W:351:TYR:HB2	1.99	0.45
1:a:241:PHE:HB3	1:a:243:CYS:SG	2.57	0.45
1:b:399:PHE:CG	1:b:400:PRO:HD2	2.52	0.45
1:b:488:ARG:HD2	1:c:511:HIS:HD2	1.82	0.45
1:c:412:GLU:N	1:c:412:GLU:OE1	2.49	0.45
1:e:412:GLU:OE1	1:e:412:GLU:N	2.49	0.45
1:f:399:PHE:CG	1:f:400:PRO:HD2	2.52	0.45
1:h:399:PHE:CG	1:h:400:PRO:HD2	2.52	0.45
1:i:511:HIS:HD2	1:l:488:ARG:HD2	1.82	0.45
1:k:241:PHE:HB3	1:k:243:CYS:SG	2.57	0.45
1:l:399:PHE:CG	1:l:400:PRO:HD2	2.52	0.45
1:n:241:PHE:HB3	1:n:243:CYS:SG	2.57	0.45
1:p:399:PHE:CG	1:p:400:PRO:HD2	2.52	0.45
1:t:241:PHE:HB3	1:t:243:CYS:SG	2.57	0.45
1:w:241:PHE:HB3	1:w:243:CYS:SG	2.57	0.45
1:w:399:PHE:CG	1:w:400:PRO:HD2	2.52	0.45
1:x:126:MET:HB2	1:x:241:PHE:HE2	1.82	0.45
1:1:126:MET:HB2	1:1:241:PHE:HE2	1.82	0.45
1:1:346:PRO:HB3	1:1:351:TYR:HB2	1.99	0.45
1:3:241:PHE:HB3	1:3:243:CYS:SG	2.57	0.45
1:5:241:PHE:HB3	1:5:243:CYS:SG	2.57	0.45
1:5:399:PHE:CG	1:5:400:PRO:HD2	2.52	0.45
1:6:67:GLN:NE2	1:6:189:GLN:HB2	2.25	0.45
1:6:126:MET:HB2	1:6:241:PHE:HE2	1.82	0.45
1:6:346:PRO:HB3	1:6:351:TYR:HB2	1.99	0.45
1:A:206:ASN:ND2	1:A:324:THR:HA	2.32	0.45
1:A:241:PHE:HB3	1:A:243:CYS:SG	2.57	0.45
1:E:241:PHE:HB3	1:E:243:CYS:SG	2.57	0.45
1:E:399:PHE:CG	1:E:400:PRO:HD2	2.52	0.45
1:J:399:PHE:CG	1:J:400:PRO:HD2	2.52	0.45
1:L:399:PHE:CG	1:L:400:PRO:HD2	2.52	0.45
1:N:346:PRO:HB3	1:N:351:TYR:HB2	1.99	0.45
1:P:412:GLU:OE1	1:P:412:GLU:N	2.49	0.45
1:R:40:THR:OG1	1:R:131:TYR:HB2	2.16	0.45
1:T:346:PRO:HB3	1:T:351:TYR:HB2	1.99	0.45
1:U:241:PHE:HB3	1:U:243:CYS:SG	2.57	0.45
1:U:488:ARG:HD2	1:V:511:HIS:HD2	1.82	0.45
1:V:241:PHE:HB3	1:V:243:CYS:SG	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:399:PHE:CG	1:V:400:PRO:HD2	2.52	0.45
1:W:241:PHE:HB3	1:W:243:CYS:SG	2.57	0.45
1:a:399:PHE:CG	1:a:400:PRO:HD2	2.52	0.45
1:c:346:PRO:HB3	1:c:351:TYR:HB2	1.99	0.45
1:d:241:PHE:HB3	1:d:243:CYS:SG	2.57	0.45
1:e:241:PHE:HB3	1:e:243:CYS:SG	2.57	0.45
1:e:346:PRO:HB3	1:e:351:TYR:HB2	1.99	0.45
1:e:511:HIS:HD2	1:f:488:ARG:HD2	1.82	0.45
1:f:67:GLN:NE2	1:f:189:GLN:HB2	2.25	0.45
1:f:241:PHE:HB3	1:f:243:CYS:SG	2.57	0.45
1:i:346:PRO:HB3	1:i:351:TYR:HB2	1.99	0.45
1:j:412:GLU:OE1	1:j:412:GLU:N	2.49	0.45
1:m:399:PHE:CG	1:m:400:PRO:HD2	2.52	0.45
1:s:241:PHE:HB3	1:s:243:CYS:SG	2.57	0.45
1:v:241:PHE:HB3	1:v:243:CYS:SG	2.57	0.45
1:y:126:MET:HB2	1:y:241:PHE:HE2	1.82	0.45
1:z:241:PHE:HB3	1:z:243:CYS:SG	2.57	0.45
1:z:399:PHE:CG	1:z:400:PRO:HD2	2.52	0.45
1:1:399:PHE:CG	1:1:400:PRO:HD2	2.52	0.45
1:3:399:PHE:CG	1:3:400:PRO:HD2	2.52	0.45
1:4:241:PHE:HB3	1:4:243:CYS:SG	2.57	0.45
1:5:40:THR:OG1	1:5:131:TYR:HB2	2.16	0.45
1:7:126:MET:HB2	1:7:241:PHE:HE2	1.82	0.45
1:E:511:HIS:HD2	1:P:488:ARG:HD2	1.82	0.45
1:H:136:LYS:NZ	1:H:149:ASN:OD1	2.50	0.45
1:H:399:PHE:CG	1:H:400:PRO:HD2	2.52	0.45
1:J:511:HIS:HD2	1:K:488:ARG:HD2	1.82	0.45
1:M:346:PRO:HB3	1:M:351:TYR:HB2	1.99	0.45
1:O:241:PHE:HB3	1:O:243:CYS:SG	2.57	0.45
1:T:399:PHE:CG	1:T:400:PRO:HD2	2.52	0.45
1:V:346:PRO:HB3	1:V:351:TYR:HB2	1.99	0.45
1:W:511:HIS:HD2	1:X:488:ARG:HD2	1.82	0.45
1:Y:399:PHE:CG	1:Y:400:PRO:HD2	2.52	0.45
1:a:126:MET:HB2	1:a:241:PHE:HE2	1.82	0.45
1:b:126:MET:HB2	1:b:241:PHE:HE2	1.82	0.45
1:c:241:PHE:HB3	1:c:243:CYS:SG	2.57	0.45
1:f:126:MET:HB2	1:f:241:PHE:HE2	1.82	0.45
1:i:399:PHE:CG	1:i:400:PRO:HD2	2.52	0.45
1:k:346:PRO:HB3	1:k:351:TYR:HB2	1.99	0.45
1:m:346:PRO:HB3	1:m:351:TYR:HB2	1.99	0.45
1:n:126:MET:HB2	1:n:241:PHE:HE2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:488:ARG:HD2	1:6:511:HIS:HD2	1.82	0.45
1:y:241:PHE:HB3	1:y:243:CYS:SG	2.57	0.45
1:y:399:PHE:CG	1:y:400:PRO:HD2	2.52	0.45
1:z:270:TYR:O	1:1:350:GLU:HG2	2.16	0.45
1:2:399:PHE:CG	1:2:400:PRO:HD2	2.52	0.45
1:3:126:MET:HB2	1:3:241:PHE:HE2	1.82	0.45
1:B:399:PHE:CG	1:B:400:PRO:HD2	2.52	0.45
1:D:346:PRO:HB3	1:D:351:TYR:HB2	1.99	0.45
1:F:241:PHE:HB3	1:F:243:CYS:SG	2.57	0.45
1:K:126:MET:HB2	1:K:241:PHE:HE2	1.82	0.45
1:S:126:MET:HB2	1:S:241:PHE:HE2	1.82	0.45
1:S:346:PRO:HB3	1:S:351:TYR:HB2	1.99	0.45
1:U:126:MET:HB2	1:U:241:PHE:HE2	1.82	0.45
1:U:399:PHE:CG	1:U:400:PRO:HD2	2.52	0.45
1:W:399:PHE:CG	1:W:400:PRO:HD2	2.52	0.45
1:a:511:HIS:HD2	1:3:488:ARG:HD2	1.82	0.45
1:b:241:PHE:HB3	1:b:243:CYS:SG	2.57	0.45
1:d:126:MET:HB2	1:d:241:PHE:HE2	1.82	0.45
1:h:126:MET:HB2	1:h:241:PHE:HE2	1.82	0.45
1:h:346:PRO:HB3	1:h:351:TYR:HB2	1.99	0.45
1:j:241:PHE:HB3	1:j:243:CYS:SG	2.57	0.45
1:n:399:PHE:CG	1:n:400:PRO:HD2	2.52	0.45
1:p:241:PHE:HB3	1:p:243:CYS:SG	2.57	0.45
1:p:346:PRO:HB3	1:p:351:TYR:HB2	1.99	0.45
1:q:40:THR:OG1	1:q:131:TYR:HB2	2.16	0.45
1:r:270:TYR:O	1:s:350:GLU:HG2	2.17	0.45
1:u:488:ARG:HD2	1:1:511:HIS:HD2	1.82	0.45
1:x:241:PHE:HB3	1:x:243:CYS:SG	2.57	0.45
1:x:346:PRO:HB3	1:x:351:TYR:HB2	1.99	0.45
1:y:346:PRO:HB3	1:y:351:TYR:HB2	1.99	0.45
1:2:206:ASN:ND2	1:2:324:THR:HA	2.31	0.45
1:2:511:HIS:HD2	1:4:488:ARG:HD2	1.82	0.45
1:3:412:GLU:N	1:3:412:GLU:OE1	2.49	0.45
1:7:399:PHE:CG	1:7:400:PRO:HD2	2.52	0.45
1:B:206:ASN:ND2	1:B:324:THR:HA	2.31	0.44
1:B:511:HIS:HD2	1:I:488:ARG:HD2	1.82	0.44
1:C:488:ARG:HD2	1:L:511:HIS:HD2	1.82	0.44
1:D:40:THR:OG1	1:D:131:TYR:HB2	2.16	0.44
1:F:399:PHE:CG	1:F:400:PRO:HD2	2.52	0.44
1:H:346:PRO:HB3	1:H:351:TYR:HB2	1.99	0.44
1:M:40:THR:OG1	1:M:131:TYR:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:126:MET:HB2	1:M:241:PHE:HE2	1.82	0.44
1:N:399:PHE:CG	1:N:400:PRO:HD2	2.52	0.44
1:O:346:PRO:HB3	1:O:351:TYR:HB2	1.99	0.44
1:P:241:PHE:HB3	1:P:243:CYS:SG	2.57	0.44
1:Q:241:PHE:HB3	1:Q:243:CYS:SG	2.57	0.44
1:Q:346:PRO:HB3	1:Q:351:TYR:HB2	1.99	0.44
1:R:126:MET:HB2	1:R:241:PHE:HE2	1.82	0.44
1:Y:40:THR:OG1	1:Y:131:TYR:HB2	2.16	0.44
1:Y:346:PRO:HB3	1:Y:351:TYR:HB2	1.99	0.44
1:Z:399:PHE:CG	1:Z:400:PRO:HD2	2.52	0.44
1:a:412:GLU:N	1:a:412:GLU:OE1	2.49	0.44
1:a:488:ARG:HD2	1:3:511:HIS:HD2	1.82	0.44
1:b:346:PRO:HB3	1:b:351:TYR:HB2	1.99	0.44
1:d:40:THR:OG1	1:d:131:TYR:HB2	2.16	0.44
1:d:399:PHE:CG	1:d:400:PRO:HD2	2.52	0.44
1:f:346:PRO:HB3	1:f:351:TYR:HB2	1.99	0.44
1:g:488:ARG:HD2	1:z:511:HIS:HD2	1.82	0.44
1:h:40:THR:OG1	1:h:131:TYR:HB2	2.16	0.44
1:n:206:ASN:ND2	1:n:324:THR:HA	2.31	0.44
1:r:126:MET:HB2	1:r:241:PHE:HE2	1.82	0.44
1:s:126:MET:HB2	1:s:241:PHE:HE2	1.82	0.44
1:s:399:PHE:CG	1:s:400:PRO:HD2	2.52	0.44
1:1:206:ASN:ND2	1:1:324:THR:HA	2.31	0.44
1:5:346:PRO:HB3	1:5:351:TYR:HB2	1.99	0.44
1:6:241:PHE:HB3	1:6:243:CYS:SG	2.57	0.44
1:6:399:PHE:CG	1:6:400:PRO:HD2	2.52	0.44
1:7:40:THR:OG1	1:7:131:TYR:HB2	2.16	0.44
1:7:346:PRO:HB3	1:7:351:TYR:HB2	1.99	0.44
1:F:346:PRO:HB3	1:F:351:TYR:HB2	1.99	0.44
1:I:399:PHE:CG	1:I:400:PRO:HD2	2.52	0.44
1:J:126:MET:HB2	1:J:241:PHE:HE2	1.82	0.44
1:J:206:ASN:ND2	1:J:324:THR:HA	2.31	0.44
1:N:40:THR:OG1	1:N:131:TYR:HB2	2.16	0.44
1:V:206:ASN:ND2	1:V:324:THR:HA	2.31	0.44
1:a:346:PRO:HB3	1:a:351:TYR:HB2	1.99	0.44
1:b:67:GLN:NE2	1:b:189:GLN:HB2	2.25	0.44
1:d:206:ASN:ND2	1:d:324:THR:HA	2.32	0.44
1:i:40:THR:OG1	1:i:131:TYR:HB2	2.16	0.44
1:i:488:ARG:HD2	1:l:511:HIS:HD2	1.82	0.44
1:k:40:THR:OG1	1:k:131:TYR:HB2	2.16	0.44
1:l:241:PHE:HB3	1:l:243:CYS:SG	2.57	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:346:PRO:HB3	1:l:351:TYR:HB2	1.99	0.44
1:m:126:MET:HB2	1:m:241:PHE:HE2	1.82	0.44
1:m:241:PHE:HB3	1:m:243:CYS:SG	2.57	0.44
1:n:40:THR:OG1	1:n:131:TYR:HB2	2.16	0.44
1:p:206:ASN:ND2	1:p:324:THR:HA	2.31	0.44
1:q:126:MET:HB2	1:q:241:PHE:HE2	1.82	0.44
1:t:488:ARG:HD2	1:5:511:HIS:HD2	1.82	0.44
1:u:399:PHE:CG	1:u:400:PRO:HD2	2.52	0.44
1:z:126:MET:HB2	1:z:241:PHE:HE2	1.82	0.44
1:2:126:MET:HB2	1:2:241:PHE:HE2	1.82	0.44
1:4:126:MET:HB2	1:4:241:PHE:HE2	1.82	0.44
1:8:399:PHE:CG	1:8:400:PRO:HD2	2.52	0.44
1:C:511:HIS:HD2	1:L:488:ARG:HD2	1.82	0.44
1:D:126:MET:HB2	1:D:241:PHE:HE2	1.82	0.44
1:D:399:PHE:CG	1:D:400:PRO:HD2	2.52	0.44
1:E:346:PRO:HB3	1:E:351:TYR:HB2	1.99	0.44
1:G:488:ARG:HD2	1:H:511:HIS:HD2	1.82	0.44
1:I:206:ASN:ND2	1:I:324:THR:HA	2.31	0.44
1:N:488:ARG:HD2	1:O:511:HIS:HD2	1.82	0.44
1:R:399:PHE:CG	1:R:400:PRO:HD2	2.52	0.44
1:S:241:PHE:HB3	1:S:243:CYS:SG	2.57	0.44
1:W:67:GLN:NE2	1:W:189:GLN:HB2	2.25	0.44
1:X:101:GLN:HE22	1:e:266:ARG:HH12	1.65	0.44
1:Z:241:PHE:HB3	1:Z:243:CYS:SG	2.57	0.44
1:c:266:ARG:HH12	1:o:101:GLN:HE22	1.65	0.44
1:m:206:ASN:ND2	1:m:324:THR:HA	2.31	0.44
1:o:126:MET:HB2	1:o:241:PHE:HE2	1.82	0.44
1:r:241:PHE:HB3	1:r:243:CYS:SG	2.57	0.44
1:r:346:PRO:HB3	1:r:351:TYR:HB2	1.99	0.44
1:u:206:ASN:ND2	1:u:324:THR:HA	2.32	0.44
1:w:346:PRO:HB3	1:w:351:TYR:HB2	1.99	0.44
1:y:156:HIS:HD2	1:y:226:HIS:NE2	2.16	0.44
1:3:346:PRO:HB3	1:3:351:TYR:HB2	1.99	0.44
1:8:241:PHE:HB3	1:8:243:CYS:SG	2.57	0.44
1:E:101:GLN:HE22	1:F:266:ARG:HH12	1.66	0.44
1:F:156:HIS:HD2	1:F:226:HIS:NE2	2.16	0.44
1:L:126:MET:HB2	1:L:241:PHE:HE2	1.82	0.44
1:M:156:HIS:HD2	1:M:226:HIS:NE2	2.16	0.44
1:Q:399:PHE:CG	1:Q:400:PRO:HD2	2.52	0.44
1:S:399:PHE:CG	1:S:400:PRO:HD2	2.52	0.44
1:T:126:MET:HB2	1:T:241:PHE:HE2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:241:PHE:HB3	1:T:243:CYS:SG	2.57	0.44
1:d:175:ASP:O	1:d:185:TRP:CH2	2.71	0.44
1:d:511:HIS:HD2	1:n:488:ARG:HD2	1.82	0.44
1:f:206:ASN:ND2	1:f:324:THR:HA	2.32	0.44
1:k:126:MET:HB2	1:k:241:PHE:HE2	1.82	0.44
1:l:156:HIS:HD2	1:l:226:HIS:NE2	2.16	0.44
1:m:511:HIS:HD2	1:r:488:ARG:HD2	1.82	0.44
1:n:175:ASP:O	1:n:185:TRP:CH2	2.71	0.44
1:q:399:PHE:CG	1:q:400:PRO:HD2	2.52	0.44
1:r:399:PHE:CG	1:r:400:PRO:HD2	2.52	0.44
1:w:101:GLN:HE22	1:y:266:ARG:HH12	1.66	0.44
1:A:126:MET:HB2	1:A:241:PHE:HE2	1.82	0.44
1:B:175:ASP:O	1:B:185:TRP:CH2	2.71	0.44
1:D:511:HIS:HD2	1:M:488:ARG:HD2	1.82	0.44
1:I:241:PHE:HB3	1:I:243:CYS:SG	2.57	0.44
1:J:488:ARG:HD2	1:K:511:HIS:HD2	1.82	0.44
1:K:40:THR:OG1	1:K:131:TYR:HB2	2.16	0.44
1:O:156:HIS:HD2	1:O:226:HIS:NE2	2.16	0.44
1:S:488:ARG:HD2	1:T:511:HIS:HD2	1.82	0.44
1:T:175:ASP:O	1:T:185:TRP:CH2	2.71	0.44
1:T:206:ASN:ND2	1:T:324:THR:HA	2.31	0.44
1:X:126:MET:HB2	1:X:241:PHE:HE2	1.82	0.44
1:X:156:HIS:HD2	1:X:226:HIS:NE2	2.16	0.44
1:X:346:PRO:HB3	1:X:351:TYR:HB2	1.99	0.44
1:Z:101:GLN:HE22	1:3:266:ARG:HH12	1.66	0.44
1:a:266:ARG:HH12	1:8:101:GLN:HE22	1.66	0.44
1:f:101:GLN:HE22	1:g:266:ARG:HH12	1.66	0.44
1:g:511:HIS:HD2	1:z:488:ARG:HD2	1.82	0.44
1:h:156:HIS:HD2	1:h:226:HIS:NE2	2.16	0.44
1:h:511:HIS:HD2	1:k:488:ARG:HD2	1.82	0.44
1:k:399:PHE:CG	1:k:400:PRO:HD2	2.52	0.44
1:m:175:ASP:O	1:m:185:TRP:CH2	2.71	0.44
1:o:156:HIS:HD2	1:o:226:HIS:NE2	2.16	0.44
1:o:346:PRO:HB3	1:o:351:TYR:HB2	1.99	0.44
1:q:206:ASN:ND2	1:q:324:THR:HA	2.31	0.44
1:u:241:PHE:HB3	1:u:243:CYS:SG	2.57	0.44
1:v:346:PRO:HB3	1:v:351:TYR:HB2	1.99	0.44
1:w:67:GLN:NE2	1:w:189:GLN:HB2	2.25	0.44
1:x:399:PHE:CG	1:x:400:PRO:HD2	2.52	0.44
1:z:266:ARG:HH12	1:1:101:GLN:HE22	1.66	0.44
1:1:175:ASP:O	1:1:185:TRP:CH2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:488:ARG:HD2	1:4:511:HIS:HD2	1.82	0.44
1:3:156:HIS:HD2	1:3:226:HIS:NE2	2.16	0.44
1:4:40:THR:OG1	1:4:131:TYR:HB2	2.16	0.44
1:B:101:GLN:HE22	1:L:266:ARG:HH12	1.66	0.44
1:C:266:ARG:HH12	1:b:101:GLN:HE22	1.66	0.44
1:E:175:ASP:O	1:E:185:TRP:CH2	2.71	0.44
1:G:399:PHE:CG	1:G:400:PRO:HD2	2.52	0.44
1:J:346:PRO:HB3	1:J:351:TYR:HB2	1.99	0.44
1:O:206:ASN:ND2	1:O:324:THR:HA	2.31	0.44
1:P:175:ASP:O	1:P:185:TRP:CH2	2.71	0.44
1:R:175:ASP:O	1:R:185:TRP:CH2	2.71	0.44
1:V:175:ASP:O	1:V:185:TRP:CH2	2.71	0.44
1:Y:511:HIS:HD2	1:Z:488:ARG:HD2	1.82	0.44
1:Z:175:ASP:O	1:Z:185:TRP:CH2	2.71	0.44
1:a:156:HIS:HD2	1:a:226:HIS:NE2	2.16	0.44
1:b:206:ASN:ND2	1:b:324:THR:HA	2.32	0.44
1:d:156:HIS:HD2	1:d:226:HIS:NE2	2.16	0.44
1:d:266:ARG:HH12	1:l:101:GLN:HE22	1.66	0.44
1:d:488:ARG:HD2	1:n:511:HIS:HD2	1.82	0.44
1:h:488:ARG:HD2	1:k:511:HIS:HD2	1.82	0.44
1:j:175:ASP:O	1:j:185:TRP:CH2	2.71	0.44
1:o:175:ASP:O	1:o:185:TRP:CH2	2.71	0.44
1:p:175:ASP:O	1:p:185:TRP:CH2	2.71	0.44
1:q:175:ASP:O	1:q:185:TRP:CH2	2.71	0.44
1:q:346:PRO:HB3	1:q:351:TYR:HB2	1.99	0.44
1:t:175:ASP:O	1:t:185:TRP:CH2	2.71	0.44
1:v:126:MET:HB2	1:v:241:PHE:HE2	1.82	0.44
1:w:175:ASP:O	1:w:185:TRP:CH2	2.71	0.44
1:2:346:PRO:HB3	1:2:351:TYR:HB2	1.99	0.44
1:7:511:HIS:HD2	1:8:488:ARG:HD2	1.82	0.44
1:8:175:ASP:O	1:8:185:TRP:CH2	2.71	0.44
1:A:346:PRO:HB3	1:A:351:TYR:HB2	1.99	0.44
1:A:399:PHE:CG	1:A:400:PRO:HD2	2.52	0.44
1:C:101:GLN:HE22	1:M:266:ARG:HH12	1.66	0.44
1:G:175:ASP:O	1:G:185:TRP:CH2	2.71	0.44
1:H:156:HIS:HD2	1:H:226:HIS:NE2	2.16	0.44
1:J:156:HIS:HD2	1:J:226:HIS:NE2	2.16	0.44
1:K:101:GLN:HE22	1:8:266:ARG:HH12	1.66	0.44
1:M:175:ASP:O	1:M:185:TRP:CH2	2.71	0.44
1:O:101:GLN:HE22	1:n:266:ARG:HH12	1.66	0.44
1:R:206:ASN:ND2	1:R:324:THR:HA	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:511:HIS:HD2	1:T:488:ARG:HD2	1.82	0.44
1:X:175:ASP:O	1:X:185:TRP:CH2	2.71	0.44
1:X:241:PHE:HB3	1:X:243:CYS:SG	2.57	0.44
1:Z:266:ARG:HH12	1:4:101:GLN:HE22	1.66	0.44
1:g:101:GLN:HE22	1:h:266:ARG:HH12	1.66	0.44
1:l:206:ASN:ND2	1:l:324:THR:HA	2.31	0.44
1:m:488:ARG:HD2	1:r:511:HIS:HD2	1.82	0.44
1:n:156:HIS:HD2	1:n:226:HIS:NE2	2.16	0.44
1:o:241:PHE:HB3	1:o:243:CYS:SG	2.57	0.44
1:t:399:PHE:CG	1:t:400:PRO:HD2	2.52	0.44
1:z:175:ASP:O	1:z:185:TRP:CH2	2.71	0.44
1:2:156:HIS:HD2	1:2:226:HIS:NE2	2.16	0.44
1:5:156:HIS:HD2	1:5:226:HIS:NE2	2.16	0.44
1:8:156:HIS:HD2	1:8:226:HIS:NE2	2.16	0.44
1:C:126:MET:HB2	1:C:241:PHE:HE2	1.82	0.44
1:D:488:ARG:HD2	1:M:511:HIS:HD2	1.82	0.44
1:G:136:LYS:NZ	1:G:149:ASN:OD1	2.50	0.44
1:I:346:PRO:HB3	1:I:351:TYR:HB2	1.99	0.44
1:J:40:THR:OG1	1:J:131:TYR:HB2	2.16	0.44
1:K:399:PHE:CG	1:K:400:PRO:HD2	2.52	0.44
1:L:175:ASP:O	1:L:185:TRP:CH2	2.71	0.44
1:P:156:HIS:HD2	1:P:226:HIS:NE2	2.16	0.44
1:P:399:PHE:CG	1:P:400:PRO:HD2	2.52	0.44
1:Q:67:GLN:NE2	1:Q:189:GLN:HB2	2.25	0.44
1:R:346:PRO:HB3	1:R:351:TYR:HB2	1.99	0.44
1:S:266:ARG:HH12	1:U:101:GLN:HE22	1.66	0.44
1:Y:175:ASP:O	1:Y:185:TRP:CH2	2.71	0.44
1:Z:156:HIS:HD2	1:Z:226:HIS:NE2	2.16	0.44
1:g:156:HIS:HD2	1:g:226:HIS:NE2	2.16	0.44
1:h:175:ASP:O	1:h:185:TRP:CH2	2.71	0.44
1:o:511:HIS:HD2	1:6:488:ARG:HD2	1.82	0.44
1:u:346:PRO:HB3	1:u:351:TYR:HB2	1.99	0.44
1:v:399:PHE:CG	1:v:400:PRO:HD2	2.52	0.44
1:1:241:PHE:HB3	1:1:243:CYS:SG	2.57	0.44
1:2:40:THR:OG1	1:2:131:TYR:HB2	2.16	0.44
1:4:399:PHE:CG	1:4:400:PRO:HD2	2.52	0.44
1:5:126:MET:HB2	1:5:241:PHE:HE2	1.82	0.44
1:7:241:PHE:HB3	1:7:243:CYS:SG	2.57	0.44
1:A:156:HIS:HD2	1:A:226:HIS:NE2	2.16	0.44
1:B:241:PHE:HB3	1:B:243:CYS:SG	2.57	0.44
1:C:156:HIS:HD2	1:C:226:HIS:NE2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:67:GLN:NE2	1:E:189:GLN:HB2	2.25	0.44
1:G:511:HIS:HD2	1:H:488:ARG:HD2	1.82	0.44
1:H:126:MET:HB2	1:H:241:PHE:HE2	1.82	0.44
1:L:156:HIS:HD2	1:L:226:HIS:NE2	2.16	0.44
1:W:488:ARG:HD2	1:X:511:HIS:HD2	1.82	0.44
1:Y:241:PHE:HB3	1:Y:243:CYS:SG	2.57	0.44
1:a:206:ASN:ND2	1:a:324:THR:HA	2.31	0.44
1:c:101:GLN:HE22	1:p:266:ARG:HH12	1.66	0.44
1:c:175:ASP:O	1:c:185:TRP:CH2	2.71	0.44
1:e:175:ASP:O	1:e:185:TRP:CH2	2.71	0.44
1:g:126:MET:HB2	1:g:241:PHE:HE2	1.82	0.44
1:j:156:HIS:HD2	1:j:226:HIS:NE2	2.16	0.44
1:j:399:PHE:CG	1:j:400:PRO:HD2	2.52	0.44
1:o:399:PHE:CG	1:o:400:PRO:HD2	2.52	0.44
1:t:136:LYS:NZ	1:t:149:ASN:OD1	2.50	0.44
1:t:511:HIS:HD2	1:5:488:ARG:HD2	1.82	0.44
1:w:126:MET:HB2	1:w:241:PHE:HE2	1.82	0.44
1:4:136:LYS:NZ	1:4:149:ASN:OD1	2.50	0.44
1:4:156:HIS:HD2	1:4:226:HIS:NE2	2.16	0.44
1:6:175:ASP:O	1:6:185:TRP:CH2	2.71	0.44
1:7:175:ASP:O	1:7:185:TRP:CH2	2.71	0.44
1:D:175:ASP:O	1:D:185:TRP:CH2	2.71	0.43
1:E:126:MET:HB2	1:E:241:PHE:HE2	1.82	0.43
1:F:175:ASP:O	1:F:185:TRP:CH2	2.71	0.43
1:K:136:LYS:NZ	1:K:149:ASN:OD1	2.50	0.43
1:K:156:HIS:HD2	1:K:226:HIS:NE2	2.16	0.43
1:S:175:ASP:O	1:S:185:TRP:CH2	2.71	0.43
1:U:175:ASP:O	1:U:185:TRP:CH2	2.71	0.43
1:U:511:HIS:HD2	1:V:488:ARG:HD2	1.82	0.43
1:X:399:PHE:CG	1:X:400:PRO:HD2	2.52	0.43
1:Y:206:ASN:ND2	1:Y:324:THR:HA	2.32	0.43
1:b:175:ASP:O	1:b:185:TRP:CH2	2.71	0.43
1:f:175:ASP:O	1:f:185:TRP:CH2	2.71	0.43
1:i:156:HIS:HD2	1:i:226:HIS:NE2	2.16	0.43
1:k:175:ASP:O	1:k:185:TRP:CH2	2.71	0.43
1:r:175:ASP:O	1:r:185:TRP:CH2	2.71	0.43
1:s:175:ASP:O	1:s:185:TRP:CH2	2.71	0.43
1:z:156:HIS:HD2	1:z:226:HIS:NE2	2.16	0.43
1:1:156:HIS:HD2	1:1:226:HIS:NE2	2.16	0.43
1:5:175:ASP:O	1:5:185:TRP:CH2	2.71	0.43
1:B:156:HIS:HD2	1:B:226:HIS:NE2	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:136:LYS:NZ	1:C:149:ASN:OD1	2.50	0.43
1:E:156:HIS:HD2	1:E:226:HIS:NE2	2.16	0.43
1:H:175:ASP:O	1:H:185:TRP:CH2	2.71	0.43
1:J:175:ASP:O	1:J:185:TRP:CH2	2.71	0.43
1:L:206:ASN:ND2	1:L:324:THR:HA	2.31	0.43
1:N:156:HIS:HD2	1:N:226:HIS:NE2	2.16	0.43
1:O:175:ASP:O	1:O:185:TRP:CH2	2.71	0.43
1:P:346:PRO:HB3	1:P:351:TYR:HB2	1.99	0.43
1:V:266:ARG:HH12	1:e:101:GLN:HE22	1.66	0.43
1:W:175:ASP:O	1:W:185:TRP:CH2	2.71	0.43
1:c:295:THR:HG22	1:c:296:GLY:O	2.19	0.43
1:d:136:LYS:NZ	1:d:149:ASN:OD1	2.50	0.43
1:e:295:THR:HG22	1:e:296:GLY:O	2.19	0.43
1:f:266:ARG:HH12	1:h:101:GLN:HE22	1.65	0.43
1:h:241:PHE:HB3	1:h:243:CYS:SG	2.57	0.43
1:i:287:TYR:OH	1:j:309:GLY:O	2.29	0.43
1:m:295:THR:HG22	1:m:296:GLY:O	2.18	0.43
1:r:295:THR:HG22	1:r:296:GLY:O	2.18	0.43
1:s:156:HIS:HD2	1:s:226:HIS:NE2	2.16	0.43
1:u:126:MET:HB2	1:u:241:PHE:HE2	1.82	0.43
1:v:511:HIS:HD2	1:y:488:ARG:HD2	1.82	0.43
1:w:156:HIS:HD2	1:w:226:HIS:NE2	2.16	0.43
1:y:175:ASP:O	1:y:185:TRP:CH2	2.71	0.43
1:z:206:ASN:ND2	1:z:324:THR:HA	2.31	0.43
1:3:206:ASN:ND2	1:3:324:THR:HA	2.32	0.43
1:7:206:ASN:ND2	1:7:324:THR:HA	2.31	0.43
1:C:119:LYS:HB3	1:C:482:TYR:HB3	2.01	0.43
1:D:119:LYS:HB3	1:D:482:TYR:HB3	2.01	0.43
1:G:68:ASN:OD1	1:G:73:ARG:NH2	2.52	0.43
1:G:295:THR:HG22	1:G:296:GLY:O	2.19	0.43
1:H:101:GLN:HE22	1:Y:266:ARG:HH12	1.66	0.43
1:I:126:MET:HB2	1:I:241:PHE:HE2	1.82	0.43
1:L:68:ASN:OD1	1:L:73:ARG:NH2	2.52	0.43
1:M:101:GLN:HE22	1:b:266:ARG:HH12	1.65	0.43
1:R:156:HIS:HD2	1:R:226:HIS:NE2	2.16	0.43
1:R:241:PHE:HB3	1:R:243:CYS:SG	2.57	0.43
1:S:295:THR:HG22	1:S:296:GLY:O	2.19	0.43
1:T:295:THR:HG22	1:T:296:GLY:O	2.18	0.43
1:Y:136:LYS:NZ	1:Y:149:ASN:OD1	2.50	0.43
1:c:206:ASN:ND2	1:c:324:THR:HA	2.31	0.43
1:e:68:ASN:OD1	1:e:73:ARG:NH2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:156:HIS:HD2	1:f:226:HIS:NE2	2.16	0.43
1:g:136:LYS:NZ	1:g:149:ASN:OD1	2.50	0.43
1:i:295:THR:HG22	1:i:296:GLY:O	2.19	0.43
1:j:346:PRO:HB3	1:j:351:TYR:HB2	1.99	0.43
1:k:119:LYS:HB3	1:k:482:TYR:HB3	2.01	0.43
1:l:175:ASP:O	1:l:185:TRP:CH2	2.71	0.43
1:m:156:HIS:HD2	1:m:226:HIS:NE2	2.16	0.43
1:n:136:LYS:NZ	1:n:149:ASN:OD1	2.50	0.43
1:q:68:ASN:OD1	1:q:73:ARG:NH2	2.52	0.43
1:q:156:HIS:HD2	1:q:226:HIS:NE2	2.16	0.43
1:t:156:HIS:HD2	1:t:226:HIS:NE2	2.16	0.43
1:u:68:ASN:OD1	1:u:73:ARG:NH2	2.52	0.43
1:v:156:HIS:HD2	1:v:226:HIS:NE2	2.16	0.43
1:z:68:ASN:OD1	1:z:73:ARG:NH2	2.52	0.43
1:2:175:ASP:O	1:2:185:TRP:CH2	2.71	0.43
1:5:101:GLN:HE22	1:7:266:ARG:HH12	1.66	0.43
1:A:511:HIS:HD2	1:F:488:ARG:HD2	1.82	0.43
1:G:156:HIS:HD2	1:G:226:HIS:NE2	2.16	0.43
1:I:68:ASN:OD1	1:I:73:ARG:NH2	2.52	0.43
1:J:266:ARG:HH12	1:L:101:GLN:HE22	1.66	0.43
1:K:295:THR:HG22	1:K:296:GLY:O	2.18	0.43
1:K:346:PRO:HB3	1:K:351:TYR:HB2	1.99	0.43
1:M:119:LYS:HB3	1:M:482:TYR:HB3	2.01	0.43
1:M:241:PHE:HB3	1:M:243:CYS:SG	2.57	0.43
1:N:287:TYR:OH	1:P:309:GLY:O	2.29	0.43
1:N:295:THR:HG22	1:N:296:GLY:O	2.19	0.43
1:R:68:ASN:OD1	1:R:73:ARG:NH2	2.52	0.43
1:T:156:HIS:HD2	1:T:226:HIS:NE2	2.16	0.43
1:U:156:HIS:HD2	1:U:226:HIS:NE2	2.16	0.43
1:b:68:ASN:OD1	1:b:73:ARG:NH2	2.52	0.43
1:b:156:HIS:HD2	1:b:226:HIS:NE2	2.16	0.43
1:c:68:ASN:OD1	1:c:73:ARG:NH2	2.52	0.43
1:g:119:LYS:HB3	1:g:482:TYR:HB3	2.01	0.43
1:h:119:LYS:HB3	1:h:482:TYR:HB3	2.01	0.43
1:h:136:LYS:NZ	1:h:149:ASN:OD1	2.50	0.43
1:j:295:THR:HG22	1:j:296:GLY:O	2.19	0.43
1:q:241:PHE:HB3	1:q:243:CYS:SG	2.57	0.43
1:t:68:ASN:OD1	1:t:73:ARG:NH2	2.52	0.43
1:t:295:THR:HG22	1:t:296:GLY:O	2.19	0.43
1:y:68:ASN:OD1	1:y:73:ARG:NH2	2.52	0.43
1:z:101:GLN:HE22	1:2:266:ARG:HH12	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:266:ARG:NH1	1:2:101:GLN:HE22	2.16	0.43
1:3:295:THR:HG22	1:3:296:GLY:O	2.19	0.43
1:4:295:THR:HG22	1:4:296:GLY:O	2.18	0.43
1:7:119:LYS:HB3	1:7:482:TYR:HB3	2.01	0.43
1:7:136:LYS:NZ	1:7:149:ASN:OD1	2.50	0.43
1:7:488:ARG:HD2	1:8:511:HIS:HD2	1.82	0.43
1:B:266:ARG:NH1	1:J:101:GLN:HE22	2.16	0.43
1:D:295:THR:HG22	1:D:296:GLY:O	2.19	0.43
1:F:68:ASN:OD1	1:F:73:ARG:NH2	2.52	0.43
1:K:68:ASN:OD1	1:K:73:ARG:NH2	2.52	0.43
1:L:119:LYS:HB3	1:L:482:TYR:HB3	2.01	0.43
1:M:68:ASN:OD1	1:M:73:ARG:NH2	2.52	0.43
1:M:136:LYS:NZ	1:M:149:ASN:OD1	2.50	0.43
1:N:68:ASN:OD1	1:N:73:ARG:NH2	2.52	0.43
1:N:175:ASP:O	1:N:185:TRP:CH2	2.71	0.43
1:O:295:THR:HG22	1:O:296:GLY:O	2.19	0.43
1:P:68:ASN:OD1	1:P:73:ARG:NH2	2.52	0.43
1:P:295:THR:HG22	1:P:296:GLY:O	2.19	0.43
1:S:68:ASN:OD1	1:S:73:ARG:NH2	2.52	0.43
1:V:68:ASN:OD1	1:V:73:ARG:NH2	2.52	0.43
1:V:119:LYS:HB3	1:V:482:TYR:HB3	2.01	0.43
1:X:68:ASN:OD1	1:X:73:ARG:NH2	2.52	0.43
1:Y:119:LYS:HB3	1:Y:482:TYR:HB3	2.01	0.43
1:Y:488:ARG:HD2	1:Z:511:HIS:HD2	1.82	0.43
1:a:295:THR:HG22	1:a:296:GLY:O	2.19	0.43
1:d:346:PRO:HB3	1:d:351:TYR:HB2	1.99	0.43
1:e:206:ASN:ND2	1:e:324:THR:HA	2.32	0.43
1:f:68:ASN:OD1	1:f:73:ARG:NH2	2.52	0.43
1:g:68:ASN:OD1	1:g:73:ARG:NH2	2.52	0.43
1:g:241:PHE:HB3	1:g:243:CYS:SG	2.57	0.43
1:h:68:ASN:OD1	1:h:73:ARG:NH2	2.52	0.43
1:i:175:ASP:O	1:i:185:TRP:CH2	2.71	0.43
1:j:68:ASN:OD1	1:j:73:ARG:NH2	2.52	0.43
1:n:346:PRO:HB3	1:n:351:TYR:HB2	1.99	0.43
1:p:68:ASN:OD1	1:p:73:ARG:NH2	2.52	0.43
1:p:119:LYS:HB3	1:p:482:TYR:HB3	2.01	0.43
1:v:488:ARG:HD2	1:y:511:HIS:HD2	1.82	0.43
1:y:295:THR:HG22	1:y:296:GLY:O	2.18	0.43
1:2:295:THR:HG22	1:2:296:GLY:O	2.19	0.43
1:4:346:PRO:HB3	1:4:351:TYR:HB2	1.99	0.43
1:A:68:ASN:OD1	1:A:73:ARG:NH2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:68:ASN:OD1	1:B:73:ARG:NH2	2.52	0.43
1:C:68:ASN:OD1	1:C:73:ARG:NH2	2.52	0.43
1:C:175:ASP:O	1:C:185:TRP:CH2	2.71	0.43
1:F:295:THR:HG22	1:F:296:GLY:O	2.19	0.43
1:J:68:ASN:OD1	1:J:73:ARG:NH2	2.52	0.43
1:J:295:THR:HG22	1:J:296:GLY:O	2.19	0.43
1:M:295:THR:HG22	1:M:296:GLY:O	2.19	0.43
1:Q:156:HIS:HD2	1:Q:226:HIS:NE2	2.16	0.43
1:U:119:LYS:HB3	1:U:482:TYR:HB3	2.01	0.43
1:Y:68:ASN:OD1	1:Y:73:ARG:NH2	2.52	0.43
1:c:399:PHE:CG	1:c:400:PRO:HD2	2.52	0.43
1:g:175:ASP:O	1:g:185:TRP:CH2	2.71	0.43
1:h:295:THR:HG22	1:h:296:GLY:O	2.19	0.43
1:i:68:ASN:OD1	1:i:73:ARG:NH2	2.52	0.43
1:i:206:ASN:ND2	1:i:324:THR:HA	2.31	0.43
1:k:295:THR:HG22	1:k:296:GLY:O	2.19	0.43
1:l:295:THR:HG22	1:l:296:GLY:O	2.19	0.43
1:o:68:ASN:OD1	1:o:73:ARG:NH2	2.52	0.43
1:r:68:ASN:OD1	1:r:73:ARG:NH2	2.52	0.43
1:s:206:ASN:ND2	1:s:324:THR:HA	2.31	0.43
1:v:68:ASN:OD1	1:v:73:ARG:NH2	2.52	0.43
1:x:156:HIS:HD2	1:x:226:HIS:NE2	2.16	0.43
1:z:119:LYS:HB3	1:z:482:TYR:HB3	2.01	0.43
1:1:68:ASN:OD1	1:1:73:ARG:NH2	2.52	0.43
1:2:68:ASN:OD1	1:2:73:ARG:NH2	2.52	0.43
1:4:68:ASN:OD1	1:4:73:ARG:NH2	2.52	0.43
1:8:119:LYS:HB3	1:8:482:TYR:HB3	2.01	0.43
1:A:295:THR:HG22	1:A:296:GLY:O	2.19	0.43
1:A:488:ARG:HD2	1:F:511:HIS:HD2	1.82	0.43
1:B:178:PRO:HD3	1:B:185:TRP:CG	2.54	0.43
1:C:241:PHE:HB3	1:C:243:CYS:SG	2.57	0.43
1:E:488:ARG:HD2	1:P:511:HIS:HD2	1.82	0.43
1:F:101:GLN:HE22	1:Q:266:ARG:HH12	1.66	0.43
1:G:346:PRO:HB3	1:G:351:TYR:HB2	1.99	0.43
1:I:295:THR:HG22	1:I:296:GLY:O	2.19	0.43
1:K:175:ASP:O	1:K:185:TRP:CH2	2.71	0.43
1:W:119:LYS:HB3	1:W:482:TYR:HB3	2.01	0.43
1:Z:119:LYS:HB3	1:Z:482:TYR:HB3	2.01	0.43
1:Z:295:THR:HG22	1:Z:296:GLY:O	2.19	0.43
1:d:119:LYS:HB3	1:d:482:TYR:HB3	2.01	0.43
1:i:101:GLN:HE22	1:k:266:ARG:HH12	1.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:266:ARG:HH12	1:j:101:GLN:HE22	1.66	0.43
1:k:157:ILE:O	1:k:226:HIS:HB2	2.19	0.43
1:n:295:THR:HG22	1:n:296:GLY:O	2.19	0.43
1:r:156:HIS:HD2	1:r:226:HIS:NE2	2.16	0.43
1:r:266:ARG:HH12	1:s:101:GLN:HE22	1.67	0.43
1:s:119:LYS:HB3	1:s:482:TYR:HB3	2.01	0.43
1:u:175:ASP:O	1:u:185:TRP:CH2	2.71	0.43
1:u:295:THR:HG22	1:u:296:GLY:O	2.19	0.43
1:v:295:THR:HG22	1:v:296:GLY:O	2.18	0.43
1:1:178:PRO:HD3	1:1:185:TRP:CG	2.54	0.43
1:7:68:ASN:OD1	1:7:73:ARG:NH2	2.52	0.43
1:8:295:THR:HG22	1:8:296:GLY:O	2.19	0.43
1:D:157:ILE:O	1:D:226:HIS:HB2	2.19	0.43
1:D:266:ARG:HH12	1:N:101:GLN:HE22	1.67	0.43
1:E:136:LYS:NZ	1:E:149:ASN:OD1	2.50	0.43
1:E:157:ILE:O	1:E:226:HIS:HB2	2.19	0.43
1:E:266:ARG:HH12	1:Q:101:GLN:HE22	1.67	0.43
1:H:295:THR:HG22	1:H:296:GLY:O	2.19	0.43
1:I:156:HIS:HD2	1:I:226:HIS:NE2	2.16	0.43
1:I:175:ASP:O	1:I:185:TRP:CH2	2.71	0.43
1:J:178:PRO:HD3	1:J:185:TRP:CG	2.54	0.43
1:N:206:ASN:ND2	1:N:324:THR:HA	2.31	0.43
1:O:266:ARG:HH12	1:m:101:GLN:HE22	1.66	0.43
1:T:101:GLN:HE22	1:l:266:ARG:HH12	1.66	0.43
1:U:206:ASN:ND2	1:U:324:THR:HA	2.31	0.43
1:V:101:GLN:HE22	1:X:266:ARG:HH12	1.66	0.43
1:Y:295:THR:HG22	1:Y:296:GLY:O	2.19	0.43
1:a:68:ASN:OD1	1:a:73:ARG:NH2	2.52	0.43
1:a:136:LYS:NZ	1:a:149:ASN:OD1	2.50	0.43
1:b:295:THR:HG22	1:b:296:GLY:O	2.19	0.43
1:e:399:PHE:CG	1:e:400:PRO:HD2	2.52	0.43
1:j:511:HIS:HD2	1:w:488:ARG:HD2	1.82	0.43
1:n:68:ASN:OD1	1:n:73:ARG:NH2	2.52	0.43
1:n:119:LYS:HB3	1:n:482:TYR:HB3	2.01	0.43
1:u:156:HIS:HD2	1:u:226:HIS:NE2	2.16	0.43
1:w:68:ASN:OD1	1:w:73:ARG:NH2	2.52	0.43
1:w:157:ILE:O	1:w:226:HIS:HB2	2.19	0.43
1:w:266:ARG:HH12	1:x:101:GLN:HE22	1.66	0.43
1:2:178:PRO:HD3	1:2:185:TRP:CG	2.54	0.43
1:3:68:ASN:OD1	1:3:73:ARG:NH2	2.52	0.43
1:4:175:ASP:O	1:4:185:TRP:CH2	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:295:THR:HG22	1:5:296:GLY:O	2.19	0.43
1:6:119:LYS:HB3	1:6:482:TYR:HB3	2.01	0.43
1:6:206:ASN:ND2	1:6:324:THR:HA	2.32	0.43
1:7:295:THR:HG22	1:7:296:GLY:O	2.19	0.43
1:A:175:ASP:O	1:A:185:TRP:CH2	2.71	0.43
1:F:157:ILE:O	1:F:226:HIS:HB2	2.19	0.43
1:K:178:PRO:HD3	1:K:185:TRP:CG	2.54	0.43
1:N:266:ARG:HH12	1:P:101:GLN:HE22	1.66	0.43
1:P:157:ILE:O	1:P:226:HIS:HB2	2.19	0.43
1:Q:175:ASP:O	1:Q:185:TRP:CH2	2.71	0.43
1:Q:295:THR:HG22	1:Q:296:GLY:O	2.19	0.43
1:Z:136:LYS:NZ	1:Z:149:ASN:OD1	2.50	0.43
1:d:68:ASN:OD1	1:d:73:ARG:NH2	2.52	0.43
1:d:295:THR:HG22	1:d:296:GLY:O	2.19	0.43
1:f:295:THR:HG22	1:f:296:GLY:O	2.19	0.43
1:j:157:ILE:O	1:j:226:HIS:HB2	2.19	0.43
1:o:266:ARG:HH12	1:p:101:GLN:HE22	1.66	0.43
1:p:156:HIS:HD2	1:p:226:HIS:NE2	2.16	0.43
1:t:346:PRO:HB3	1:t:351:TYR:HB2	1.99	0.43
1:x:68:ASN:OD1	1:x:73:ARG:NH2	2.52	0.43
1:y:157:ILE:O	1:y:226:HIS:HB2	2.19	0.43
1:z:295:THR:HG22	1:z:296:GLY:O	2.19	0.43
1:3:136:LYS:NZ	1:3:149:ASN:OD1	2.50	0.43
1:4:178:PRO:HD3	1:4:185:TRP:CG	2.54	0.43
1:8:136:LYS:NZ	1:8:149:ASN:OD1	2.50	0.43
1:B:157:ILE:O	1:B:226:HIS:HB2	2.19	0.43
1:B:295:THR:HG22	1:B:296:GLY:O	2.18	0.43
1:C:295:THR:HG22	1:C:296:GLY:O	2.19	0.43
1:D:156:HIS:HD2	1:D:226:HIS:NE2	2.16	0.43
1:E:68:ASN:OD1	1:E:73:ARG:NH2	2.52	0.43
1:I:136:LYS:NZ	1:I:149:ASN:OD1	2.50	0.43
1:I:178:PRO:HD3	1:I:185:TRP:CG	2.54	0.43
1:L:295:THR:HG22	1:L:296:GLY:O	2.18	0.43
1:S:156:HIS:HD2	1:S:226:HIS:NE2	2.16	0.43
1:U:136:LYS:NZ	1:U:149:ASN:OD1	2.50	0.43
1:X:119:LYS:HB3	1:X:482:TYR:HB3	2.01	0.43
1:X:157:ILE:O	1:X:226:HIS:HB2	2.19	0.43
1:Y:178:PRO:HD3	1:Y:185:TRP:CG	2.54	0.43
1:Z:68:ASN:OD1	1:Z:73:ARG:NH2	2.52	0.43
1:c:156:HIS:HD2	1:c:226:HIS:NE2	2.16	0.43
1:g:157:ILE:O	1:g:226:HIS:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:295:THR:HG22	1:g:296:GLY:O	2.19	0.43
1:i:119:LYS:HB3	1:i:482:TYR:HB3	2.01	0.43
1:p:488:ARG:HD2	1:s:511:HIS:CD2	2.54	0.43
1:u:178:PRO:HD3	1:u:185:TRP:CG	2.54	0.43
1:v:175:ASP:O	1:v:185:TRP:CH2	2.71	0.43
1:x:175:ASP:O	1:x:185:TRP:CH2	2.71	0.43
1:x:266:ARG:HH12	1:y:101:GLN:HE22	1.66	0.43
1:x:295:THR:HG22	1:x:296:GLY:O	2.19	0.43
1:1:157:ILE:O	1:1:226:HIS:HB2	2.19	0.43
1:7:178:PRO:HD3	1:7:185:TRP:CG	2.54	0.43
1:8:68:ASN:OD1	1:8:73:ARG:NH2	2.52	0.43
1:C:157:ILE:O	1:C:226:HIS:HB2	2.19	0.42
1:H:119:LYS:HB3	1:H:482:TYR:HB3	2.01	0.42
1:H:157:ILE:O	1:H:226:HIS:HB2	2.19	0.42
1:N:119:LYS:HB3	1:N:482:TYR:HB3	2.01	0.42
1:Q:68:ASN:OD1	1:Q:73:ARG:NH2	2.52	0.42
1:U:157:ILE:O	1:U:226:HIS:HB2	2.19	0.42
1:V:156:HIS:HD2	1:V:226:HIS:NE2	2.16	0.42
1:V:178:PRO:HD3	1:V:185:TRP:CG	2.54	0.42
1:W:178:PRO:HD3	1:W:185:TRP:CG	2.54	0.42
1:W:206:ASN:ND2	1:W:324:THR:HA	2.32	0.42
1:W:295:THR:HG22	1:W:296:GLY:O	2.19	0.42
1:Z:178:PRO:HD3	1:Z:185:TRP:CG	2.54	0.42
1:a:378:ARG:HD2	1:a:378:ARG:HA	1.89	0.42
1:c:157:ILE:O	1:c:226:HIS:HB2	2.19	0.42
1:e:156:HIS:HD2	1:e:226:HIS:NE2	2.16	0.42
1:k:156:HIS:HD2	1:k:226:HIS:NE2	2.16	0.42
1:l:67:GLN:NE2	1:l:189:GLN:HB2	2.25	0.42
1:o:119:LYS:HB3	1:o:482:TYR:HB3	2.01	0.42
1:o:157:ILE:O	1:o:226:HIS:HB2	2.19	0.42
1:o:178:PRO:HD3	1:o:185:TRP:CG	2.54	0.42
1:s:67:GLN:NE2	1:s:189:GLN:HB2	2.25	0.42
1:s:136:LYS:NZ	1:s:149:ASN:OD1	2.50	0.42
1:s:295:THR:HG22	1:s:296:GLY:O	2.19	0.42
1:u:157:ILE:O	1:u:226:HIS:HB2	2.19	0.42
1:w:136:LYS:NZ	1:w:149:ASN:OD1	2.50	0.42
1:5:119:LYS:HB3	1:5:482:TYR:HB3	2.01	0.42
1:5:266:ARG:HH12	1:6:101:GLN:HE22	1.66	0.42
1:6:178:PRO:HD3	1:6:185:TRP:CG	2.54	0.42
1:C:178:PRO:HD3	1:C:185:TRP:CG	2.54	0.42
1:G:157:ILE:O	1:G:226:HIS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:157:ILE:O	1:I:226:HIS:HB2	2.19	0.42
1:O:67:GLN:NE2	1:O:189:GLN:HB2	2.25	0.42
1:O:68:ASN:OD1	1:O:73:ARG:NH2	2.52	0.42
1:O:119:LYS:HB3	1:O:482:TYR:HB3	2.01	0.42
1:P:178:PRO:HD3	1:P:185:TRP:CG	2.54	0.42
1:R:295:THR:HG22	1:R:296:GLY:O	2.18	0.42
1:T:119:LYS:HB3	1:T:482:TYR:HB3	2.01	0.42
1:U:67:GLN:NE2	1:U:189:GLN:HB2	2.25	0.42
1:U:295:THR:HG22	1:U:296:GLY:O	2.18	0.42
1:W:157:ILE:O	1:W:226:HIS:HB2	2.19	0.42
1:X:178:PRO:HD3	1:X:185:TRP:CG	2.54	0.42
1:Y:399:PHE:CD1	1:Y:400:PRO:HD2	2.55	0.42
1:Z:157:ILE:O	1:Z:226:HIS:HB2	2.19	0.42
1:b:157:ILE:O	1:b:226:HIS:HB2	2.19	0.42
1:d:157:ILE:O	1:d:226:HIS:HB2	2.19	0.42
1:e:157:ILE:O	1:e:226:HIS:HB2	2.19	0.42
1:f:157:ILE:O	1:f:226:HIS:HB2	2.19	0.42
1:g:178:PRO:HD3	1:g:185:TRP:CG	2.54	0.42
1:i:399:PHE:CD1	1:i:400:PRO:HD2	2.55	0.42
1:l:119:LYS:HB3	1:l:482:TYR:HB3	2.01	0.42
1:l:157:ILE:O	1:l:226:HIS:HB2	2.19	0.42
1:m:119:LYS:HB3	1:m:482:TYR:HB3	2.01	0.42
1:n:157:ILE:O	1:n:226:HIS:HB2	2.19	0.42
1:p:178:PRO:HD3	1:p:185:TRP:CG	2.54	0.42
1:q:295:THR:HG22	1:q:296:GLY:O	2.19	0.42
1:s:157:ILE:O	1:s:226:HIS:HB2	2.19	0.42
1:t:157:ILE:O	1:t:226:HIS:HB2	2.19	0.42
1:t:266:ARG:HH12	1:u:101:GLN:HE22	1.66	0.42
1:u:136:LYS:NZ	1:u:149:ASN:OD1	2.50	0.42
1:w:119:LYS:HB3	1:w:482:TYR:HB3	2.01	0.42
1:y:206:ASN:ND2	1:y:324:THR:HA	2.31	0.42
1:2:157:ILE:O	1:2:226:HIS:HB2	2.19	0.42
1:4:157:ILE:O	1:4:226:HIS:HB2	2.19	0.42
1:6:157:ILE:O	1:6:226:HIS:HB2	2.19	0.42
1:6:266:ARG:HH12	1:7:101:GLN:HE22	1.67	0.42
1:8:178:PRO:HD3	1:8:185:TRP:CG	2.54	0.42
1:A:178:PRO:HD3	1:A:185:TRP:CG	2.54	0.42
1:A:266:ARG:HH12	1:G:101:GLN:HE22	1.66	0.42
1:E:119:LYS:HB3	1:E:482:TYR:HB3	2.01	0.42
1:K:157:ILE:O	1:K:226:HIS:HB2	2.19	0.42
1:M:178:PRO:HD3	1:M:185:TRP:CG	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:157:ILE:O	1:O:226:HIS:HB2	2.19	0.42
1:R:101:GLN:HE22	1:U:266:ARG:HH12	1.66	0.42
1:U:68:ASN:HB2	1:U:189:GLN:NE2	2.35	0.42
1:Z:399:PHE:CD1	1:Z:400:PRO:HD2	2.55	0.42
1:a:67:GLN:NE2	1:a:189:GLN:HB2	2.25	0.42
1:a:119:LYS:HB3	1:a:482:TYR:HB3	2.01	0.42
1:a:175:ASP:O	1:a:185:TRP:CH2	2.71	0.42
1:j:178:PRO:HD3	1:j:185:TRP:CG	2.54	0.42
1:l:68:ASN:OD1	1:l:73:ARG:NH2	2.52	0.42
1:p:157:ILE:O	1:p:226:HIS:HB2	2.19	0.42
1:t:101:GLN:HE22	1:v:266:ARG:HH12	1.66	0.42
1:t:119:LYS:HB3	1:t:482:TYR:HB3	2.01	0.42
1:u:119:LYS:HB3	1:u:482:TYR:HB3	2.01	0.42
1:1:295:THR:HG22	1:1:296:GLY:O	2.19	0.42
1:3:67:GLN:NE2	1:3:189:GLN:HB2	2.25	0.42
1:3:175:ASP:O	1:3:185:TRP:CH2	2.71	0.42
1:5:68:ASN:HB2	1:5:189:GLN:NE2	2.35	0.42
1:6:295:THR:HG22	1:6:296:GLY:O	2.19	0.42
1:7:399:PHE:CD1	1:7:400:PRO:HD2	2.55	0.42
1:8:157:ILE:O	1:8:226:HIS:HB2	2.19	0.42
1:8:399:PHE:CD1	1:8:400:PRO:HD2	2.55	0.42
1:D:68:ASN:OD1	1:D:73:ARG:NH2	2.52	0.42
1:G:119:LYS:HB3	1:G:482:TYR:HB3	2.01	0.42
1:G:266:ARG:HH12	1:I:101:GLN:HE22	1.67	0.42
1:H:68:ASN:HB2	1:H:189:GLN:NE2	2.35	0.42
1:H:266:ARG:HH12	1:W:101:GLN:HE22	1.66	0.42
1:J:157:ILE:O	1:J:226:HIS:HB2	2.19	0.42
1:N:399:PHE:CD1	1:N:400:PRO:HD2	2.55	0.42
1:P:119:LYS:HB3	1:P:482:TYR:HB3	2.01	0.42
1:T:178:PRO:HD3	1:T:185:TRP:CG	2.54	0.42
1:U:68:ASN:OD1	1:U:73:ARG:NH2	2.52	0.42
1:U:178:PRO:HD3	1:U:185:TRP:CG	2.54	0.42
1:U:399:PHE:CD1	1:U:400:PRO:HD2	2.55	0.42
1:b:68:ASN:HB2	1:b:189:GLN:NE2	2.35	0.42
1:d:68:ASN:HB2	1:d:189:GLN:NE2	2.35	0.42
1:d:178:PRO:HD3	1:d:185:TRP:CG	2.54	0.42
1:f:68:ASN:HB2	1:f:189:GLN:NE2	2.35	0.42
1:h:178:PRO:HD3	1:h:185:TRP:CG	2.54	0.42
1:j:119:LYS:HB3	1:j:482:TYR:HB3	2.01	0.42
1:k:68:ASN:OD1	1:k:73:ARG:NH2	2.52	0.42
1:k:178:PRO:HD3	1:k:185:TRP:CG	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:68:ASN:HB2	1:n:189:GLN:NE2	2.35	0.42
1:n:178:PRO:HD3	1:n:185:TRP:CG	2.54	0.42
1:p:295:THR:HG22	1:p:296:GLY:O	2.19	0.42
1:s:68:ASN:HB2	1:s:189:GLN:NE2	2.35	0.42
1:s:68:ASN:OD1	1:s:73:ARG:NH2	2.52	0.42
1:s:178:PRO:HD3	1:s:185:TRP:CG	2.54	0.42
1:y:68:ASN:HB2	1:y:189:GLN:NE2	2.35	0.42
1:y:119:LYS:HB3	1:y:482:TYR:HB3	2.01	0.42
1:3:119:LYS:HB3	1:3:482:TYR:HB3	2.01	0.42
1:5:157:ILE:O	1:5:226:HIS:HB2	2.19	0.42
1:C:68:ASN:HB2	1:C:189:GLN:NE2	2.35	0.42
1:D:399:PHE:CD1	1:D:400:PRO:HD2	2.55	0.42
1:E:295:THR:HG22	1:E:296:GLY:O	2.19	0.42
1:H:68:ASN:OD1	1:H:73:ARG:NH2	2.52	0.42
1:M:399:PHE:CD1	1:M:400:PRO:HD2	2.55	0.42
1:N:68:ASN:HB2	1:N:189:GLN:NE2	2.35	0.42
1:O:178:PRO:HD3	1:O:185:TRP:CG	2.54	0.42
1:P:67:GLN:NE2	1:P:189:GLN:HB2	2.25	0.42
1:R:136:LYS:NZ	1:R:149:ASN:OD1	2.50	0.42
1:S:119:LYS:HB3	1:S:482:TYR:HB3	2.01	0.42
1:V:157:ILE:O	1:V:226:HIS:HB2	2.19	0.42
1:V:295:THR:HG22	1:V:296:GLY:O	2.19	0.42
1:W:156:HIS:HD2	1:W:226:HIS:NE2	2.16	0.42
1:W:266:ARG:HH12	1:Y:101:GLN:HE22	1.67	0.42
1:X:68:ASN:HB2	1:X:189:GLN:NE2	2.35	0.42
1:X:295:THR:HG22	1:X:296:GLY:O	2.19	0.42
1:X:399:PHE:CD1	1:X:400:PRO:HD2	2.55	0.42
1:Y:68:ASN:HB2	1:Y:189:GLN:NE2	2.35	0.42
1:c:119:LYS:HB3	1:c:482:TYR:HB3	2.01	0.42
1:e:178:PRO:HD3	1:e:185:TRP:CG	2.54	0.42
1:g:68:ASN:HB2	1:g:189:GLN:NE2	2.35	0.42
1:h:399:PHE:CD1	1:h:400:PRO:HD2	2.55	0.42
1:i:68:ASN:HB2	1:i:189:GLN:NE2	2.35	0.42
1:k:399:PHE:CD1	1:k:400:PRO:HD2	2.55	0.42
1:m:68:ASN:OD1	1:m:73:ARG:NH2	2.52	0.42
1:m:266:ARG:HH12	1:n:101:GLN:HE22	1.66	0.42
1:o:68:ASN:HB2	1:o:189:GLN:NE2	2.35	0.42
1:o:295:THR:HG22	1:o:296:GLY:O	2.19	0.42
1:o:399:PHE:CD1	1:o:400:PRO:HD2	2.55	0.42
1:q:178:PRO:HD3	1:q:185:TRP:CG	2.54	0.42
1:r:119:LYS:HB3	1:r:482:TYR:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:399:PHE:CD1	1:s:400:PRO:HD2	2.55	0.42
1:u:67:GLN:NE2	1:u:189:GLN:HB2	2.25	0.42
1:v:157:ILE:O	1:v:226:HIS:HB2	2.19	0.42
1:v:178:PRO:HD3	1:v:185:TRP:CG	2.54	0.42
1:1:119:LYS:HB3	1:1:482:TYR:HB3	2.01	0.42
1:3:157:ILE:O	1:3:226:HIS:HB2	2.19	0.42
1:5:68:ASN:OD1	1:5:73:ARG:NH2	2.52	0.42
1:6:156:HIS:HD2	1:6:226:HIS:NE2	2.16	0.42
1:7:156:HIS:HD2	1:7:226:HIS:NE2	2.16	0.42
1:A:157:ILE:O	1:A:226:HIS:HB2	2.19	0.42
1:B:68:ASN:HB2	1:B:189:GLN:NE2	2.35	0.42
1:D:178:PRO:HD3	1:D:185:TRP:CG	2.54	0.42
1:F:68:ASN:HB2	1:F:189:GLN:NE2	2.35	0.42
1:F:119:LYS:HB3	1:F:482:TYR:HB3	2.01	0.42
1:F:206:ASN:ND2	1:F:324:THR:HA	2.31	0.42
1:I:119:LYS:HB3	1:I:482:TYR:HB3	2.01	0.42
1:I:399:PHE:CD1	1:I:400:PRO:HD2	2.55	0.42
1:M:157:ILE:O	1:M:226:HIS:HB2	2.19	0.42
1:O:399:PHE:CD1	1:O:400:PRO:HD2	2.55	0.42
1:R:178:PRO:HD3	1:R:185:TRP:CG	2.54	0.42
1:T:266:ARG:HH12	1:d:101:GLN:HE22	1.66	0.42
1:a:157:ILE:O	1:a:226:HIS:HB2	2.19	0.42
1:b:178:PRO:HD3	1:b:185:TRP:CG	2.54	0.42
1:c:178:PRO:HD3	1:c:185:TRP:CG	2.54	0.42
1:l:178:PRO:HD3	1:l:185:TRP:CG	2.54	0.42
1:l:180:LEU:HA	1:l:181:PRO:HD3	1.93	0.42
1:l:399:PHE:CD1	1:l:400:PRO:HD2	2.55	0.42
1:m:136:LYS:NZ	1:m:149:ASN:OD1	2.50	0.42
1:m:178:PRO:HD3	1:m:185:TRP:CG	2.54	0.42
1:n:399:PHE:CD1	1:n:400:PRO:HD2	2.55	0.42
1:q:266:ARG:NH1	1:r:101:GLN:HE22	2.16	0.42
1:u:68:ASN:HB2	1:u:189:GLN:NE2	2.35	0.42
1:u:399:PHE:CD1	1:u:400:PRO:HD2	2.55	0.42
1:v:399:PHE:CD1	1:v:400:PRO:HD2	2.55	0.42
1:1:68:ASN:HB2	1:1:189:GLN:NE2	2.35	0.42
1:7:68:ASN:HB2	1:7:189:GLN:NE2	2.35	0.42
1:A:399:PHE:CD1	1:A:400:PRO:HD2	2.55	0.42
1:B:119:LYS:HB3	1:B:482:TYR:HB3	2.01	0.42
1:C:399:PHE:CD1	1:C:400:PRO:HD2	2.55	0.42
1:H:178:PRO:HD3	1:H:185:TRP:CG	2.54	0.42
1:I:67:GLN:NE2	1:I:189:GLN:HB2	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:68:ASN:HB2	1:I:189:GLN:NE2	2.35	0.42
1:K:68:ASN:HB2	1:K:189:GLN:NE2	2.35	0.42
1:K:399:PHE:CD1	1:K:400:PRO:HD2	2.55	0.42
1:N:157:ILE:O	1:N:226:HIS:HB2	2.19	0.42
1:N:206:ASN:HD22	1:N:209:GLU:CG	2.33	0.42
1:N:511:HIS:CD2	1:O:488:ARG:HD2	2.55	0.42
1:R:68:ASN:HB2	1:R:189:GLN:NE2	2.35	0.42
1:R:174:GLU:OE1	1:R:359:PRO:HG3	2.20	0.42
1:R:266:ARG:NH1	1:S:101:GLN:HE22	2.16	0.42
1:T:68:ASN:OD1	1:T:73:ARG:NH2	2.52	0.42
1:V:174:GLU:OE1	1:V:359:PRO:HG3	2.20	0.42
1:W:68:ASN:OD1	1:W:73:ARG:NH2	2.52	0.42
1:X:174:GLU:OE1	1:X:359:PRO:HG3	2.20	0.42
1:Y:156:HIS:HD2	1:Y:226:HIS:NE2	2.16	0.42
1:Y:511:HIS:CD2	1:Z:488:ARG:HD2	2.55	0.42
1:b:119:LYS:HB3	1:b:482:TYR:HB3	2.01	0.42
1:b:399:PHE:CD1	1:b:400:PRO:HD2	2.55	0.42
1:d:399:PHE:CD1	1:d:400:PRO:HD2	2.55	0.42
1:e:119:LYS:HB3	1:e:482:TYR:HB3	2.01	0.42
1:g:399:PHE:CD1	1:g:400:PRO:HD2	2.55	0.42
1:i:157:ILE:O	1:i:226:HIS:HB2	2.19	0.42
1:i:174:GLU:OE1	1:i:359:PRO:HG3	2.20	0.42
1:i:511:HIS:CD2	1:l:488:ARG:HD2	2.55	0.42
1:j:67:GLN:NE2	1:j:189:GLN:HB2	2.25	0.42
1:j:136:LYS:NZ	1:j:149:ASN:OD1	2.50	0.42
1:o:174:GLU:OE1	1:o:359:PRO:HG3	2.20	0.42
1:p:174:GLU:OE1	1:p:359:PRO:HG3	2.20	0.42
1:q:174:GLU:OE1	1:q:359:PRO:HG3	2.20	0.42
1:v:119:LYS:HB3	1:v:482:TYR:HB3	2.01	0.42
1:4:68:ASN:HB2	1:4:189:GLN:NE2	2.35	0.42
1:7:157:ILE:O	1:7:226:HIS:HB2	2.19	0.42
1:7:511:HIS:CD2	1:8:488:ARG:HD2	2.55	0.42
1:A:119:LYS:HB3	1:A:482:TYR:HB3	2.01	0.42
1:D:174:GLU:OE1	1:D:359:PRO:HG3	2.20	0.42
1:F:178:PRO:HD3	1:F:185:TRP:CG	2.54	0.42
1:G:174:GLU:OE1	1:G:359:PRO:HG3	2.20	0.42
1:J:174:GLU:OE1	1:J:359:PRO:HG3	2.20	0.42
1:N:174:GLU:OE1	1:N:359:PRO:HG3	2.20	0.42
1:N:178:PRO:HD3	1:N:185:TRP:CG	2.54	0.42
1:O:174:GLU:OE1	1:O:359:PRO:HG3	2.20	0.42
1:P:399:PHE:CD1	1:P:400:PRO:HD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:399:PHE:CD1	1:Q:400:PRO:HD2	2.55	0.42
1:R:399:PHE:CD1	1:R:400:PRO:HD2	2.55	0.42
1:R:401:ASN:HD21	1:S:429:ASP:C	2.28	0.42
1:S:174:GLU:OE1	1:S:359:PRO:HG3	2.20	0.42
1:T:136:LYS:NZ	1:T:149:ASN:OD1	2.50	0.42
1:W:206:ASN:HD22	1:W:209:GLU:CG	2.33	0.42
1:c:229:LEU:HA	1:c:233:GLU:OE1	2.20	0.42
1:e:229:LEU:HA	1:e:233:GLU:OE1	2.20	0.42
1:f:119:LYS:HB3	1:f:482:TYR:HB3	2.01	0.42
1:f:178:PRO:HD3	1:f:185:TRP:CG	2.54	0.42
1:f:399:PHE:CD1	1:f:400:PRO:HD2	2.55	0.42
1:h:157:ILE:O	1:h:226:HIS:HB2	2.19	0.42
1:k:174:GLU:OE1	1:k:359:PRO:HG3	2.20	0.42
1:l:174:GLU:OE1	1:l:359:PRO:HG3	2.20	0.42
1:q:68:ASN:HB2	1:q:189:GLN:NE2	2.35	0.42
1:q:401:ASN:HD21	1:r:429:ASP:C	2.28	0.42
1:v:225:ASP:OD2	1:l:57:LYS:NZ	2.53	0.42
1:w:295:THR:HG22	1:w:296:GLY:O	2.19	0.42
1:x:68:ASN:HB2	1:x:189:GLN:NE2	2.35	0.42
1:y:178:PRO:HD3	1:y:185:TRP:CG	2.54	0.42
1:2:174:GLU:OE1	1:2:359:PRO:HG3	2.20	0.42
1:4:399:PHE:CD1	1:4:400:PRO:HD2	2.55	0.42
1:6:68:ASN:OD1	1:6:73:ARG:NH2	2.52	0.42
1:6:174:GLU:OE1	1:6:359:PRO:HG3	2.20	0.42
1:6:206:ASN:HD22	1:6:209:GLU:CG	2.33	0.42
1:A:180:LEU:HD21	1:A:518:TYR:CD1	2.55	0.42
1:B:180:LEU:HD21	1:B:518:TYR:CD1	2.55	0.42
1:B:399:PHE:CD1	1:B:400:PRO:HD2	2.55	0.42
1:E:68:ASN:HB2	1:E:189:GLN:NE2	2.35	0.42
1:E:178:PRO:HD3	1:E:185:TRP:CG	2.54	0.42
1:G:178:PRO:HD3	1:G:185:TRP:CG	2.54	0.42
1:H:180:LEU:HD21	1:H:518:TYR:CD1	2.55	0.42
1:I:180:LEU:HD21	1:I:518:TYR:CD1	2.55	0.42
1:M:68:ASN:HB2	1:M:189:GLN:NE2	2.35	0.42
1:M:180:LEU:HD21	1:M:518:TYR:CD1	2.55	0.42
1:N:64:VAL:HG21	1:N:446:ILE:HD13	2.02	0.42
1:O:68:ASN:HB2	1:O:189:GLN:NE2	2.35	0.42
1:P:136:LYS:NZ	1:P:149:ASN:OD1	2.50	0.42
1:P:174:GLU:OE1	1:P:359:PRO:HG3	2.20	0.42
1:P:229:LEU:HA	1:P:233:GLU:OE1	2.20	0.42
1:Q:68:ASN:HB2	1:Q:189:GLN:NE2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:511:HIS:CD2	1:R:488:ARG:HD2	2.55	0.42
1:R:157:ILE:O	1:R:226:HIS:HB2	2.19	0.42
1:T:64:VAL:HG21	1:T:446:ILE:HD13	2.02	0.42
1:W:174:GLU:OE1	1:W:359:PRO:HG3	2.20	0.42
1:X:180:LEU:HD21	1:X:518:TYR:CD1	2.55	0.42
1:Y:157:ILE:O	1:Y:226:HIS:HB2	2.19	0.42
1:Y:174:GLU:OE1	1:Y:359:PRO:HG3	2.20	0.42
1:Y:180:LEU:HD21	1:Y:518:TYR:CD1	2.55	0.42
1:Z:180:LEU:HD21	1:Z:518:TYR:CD1	2.55	0.42
1:d:488:ARG:HD2	1:n:511:HIS:CD2	2.55	0.42
1:d:511:HIS:CD2	1:n:488:ARG:HD2	2.55	0.42
1:e:136:LYS:NZ	1:e:149:ASN:OD1	2.50	0.42
1:h:180:LEU:HD21	1:h:518:TYR:CD1	2.55	0.42
1:i:64:VAL:HG21	1:i:446:ILE:HD13	2.02	0.42
1:i:206:ASN:HD22	1:i:209:GLU:CG	2.33	0.42
1:j:229:LEU:HA	1:j:233:GLU:OE1	2.20	0.42
1:j:399:PHE:CD1	1:j:400:PRO:HD2	2.55	0.42
1:m:64:VAL:HG21	1:m:446:ILE:HD13	2.02	0.42
1:o:180:LEU:HD21	1:o:518:TYR:CD1	2.55	0.42
1:q:136:LYS:NZ	1:q:149:ASN:OD1	2.50	0.42
1:q:399:PHE:CD1	1:q:400:PRO:HD2	2.55	0.42
1:r:174:GLU:OE1	1:r:359:PRO:HG3	2.20	0.42
1:t:174:GLU:OE1	1:t:359:PRO:HG3	2.20	0.42
1:u:180:LEU:HD21	1:u:518:TYR:CD1	2.55	0.42
1:v:180:LEU:HD21	1:v:518:TYR:CD1	2.55	0.42
1:w:68:ASN:HB2	1:w:189:GLN:NE2	2.35	0.42
1:x:399:PHE:CD1	1:x:400:PRO:HD2	2.55	0.42
1:1:180:LEU:HD21	1:1:518:TYR:CD1	2.55	0.42
1:1:399:PHE:CD1	1:1:400:PRO:HD2	2.55	0.42
1:4:206:ASN:ND2	1:4:324:THR:HA	2.31	0.42
1:5:178:PRO:HD3	1:5:185:TRP:CG	2.54	0.42
1:5:180:LEU:HD21	1:5:518:TYR:CD1	2.55	0.42
1:5:399:PHE:CD1	1:5:400:PRO:HD2	2.55	0.42
1:7:174:GLU:OE1	1:7:359:PRO:HG3	2.20	0.42
1:7:180:LEU:HD21	1:7:518:TYR:CD1	2.55	0.42
1:8:68:ASN:HB2	1:8:189:GLN:NE2	2.35	0.42
1:8:180:LEU:HD21	1:8:518:TYR:CD1	2.55	0.42
1:A:136:LYS:NZ	1:A:149:ASN:OD1	2.50	0.42
1:B:388:THR:HG23	1:B:389:THR:H	1.85	0.42
1:B:488:ARG:HD2	1:I:511:HIS:CD2	2.55	0.42
1:D:64:VAL:HG21	1:D:446:ILE:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:399:PHE:CD1	1:E:400:PRO:HD2	2.55	0.42
1:H:174:GLU:OE1	1:H:359:PRO:HG3	2.20	0.42
1:H:399:PHE:CD1	1:H:400:PRO:HD2	2.55	0.42
1:I:229:LEU:HA	1:I:233:GLU:OE1	2.20	0.42
1:K:206:ASN:ND2	1:K:324:THR:HA	2.31	0.42
1:K:266:ARG:HH12	1:a:101:GLN:HE22	1.66	0.42
1:P:388:THR:HG23	1:P:389:THR:H	1.85	0.42
1:S:180:LEU:HD21	1:S:518:TYR:CD1	2.55	0.42
1:S:388:THR:HG23	1:S:389:THR:H	1.85	0.42
1:T:157:ILE:O	1:T:226:HIS:HB2	2.19	0.42
1:W:229:LEU:HA	1:W:233:GLU:OE1	2.20	0.42
1:X:388:THR:HG23	1:X:389:THR:H	1.85	0.42
1:Z:68:ASN:HB2	1:Z:189:GLN:NE2	2.35	0.42
1:a:174:GLU:OE1	1:a:359:PRO:HG3	2.20	0.42
1:a:178:PRO:HD3	1:a:185:TRP:CG	2.54	0.42
1:e:399:PHE:CD1	1:e:400:PRO:HD2	2.55	0.42
1:i:178:PRO:HD3	1:i:185:TRP:CG	2.54	0.42
1:j:174:GLU:OE1	1:j:359:PRO:HG3	2.20	0.42
1:j:388:THR:HG23	1:j:389:THR:H	1.85	0.42
1:k:64:VAL:HG21	1:k:446:ILE:HD13	2.02	0.42
1:k:388:THR:HG23	1:k:389:THR:H	1.85	0.42
1:l:68:ASN:HB2	1:l:189:GLN:NE2	2.35	0.42
1:l:378:ARG:HD2	1:l:378:ARG:HA	1.89	0.42
1:m:180:LEU:HD21	1:m:518:TYR:CD1	2.55	0.42
1:o:388:THR:HG23	1:o:389:THR:H	1.85	0.42
1:p:399:PHE:CD1	1:p:400:PRO:HD2	2.55	0.42
1:q:157:ILE:O	1:q:226:HIS:HB2	2.19	0.42
1:q:488:ARG:HD2	1:x:511:HIS:CD2	2.55	0.42
1:r:68:ASN:HB2	1:r:189:GLN:NE2	2.35	0.42
1:r:178:PRO:HD3	1:r:185:TRP:CG	2.54	0.42
1:r:388:THR:HG23	1:r:389:THR:H	1.85	0.42
1:t:178:PRO:HD3	1:t:185:TRP:CG	2.54	0.42
1:u:229:LEU:HA	1:u:233:GLU:OE1	2.20	0.42
1:u:266:ARG:HH12	1:v:101:GLN:HE22	1.66	0.42
1:u:511:HIS:CD2	1:1:488:ARG:HD2	2.55	0.42
1:w:178:PRO:HD3	1:w:185:TRP:CG	2.54	0.42
1:w:180:LEU:HD21	1:w:518:TYR:CD1	2.55	0.42
1:w:399:PHE:CD1	1:w:400:PRO:HD2	2.55	0.42
1:1:388:THR:HG23	1:1:389:THR:H	1.85	0.42
1:3:101:GLN:HE22	1:4:266:ARG:HH12	1.66	0.42
1:5:174:GLU:OE1	1:5:359:PRO:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:229:LEU:HA	1:6:233:GLU:OE1	2.20	0.42
1:7:488:ARG:HD2	1:8:511:HIS:CD2	2.55	0.42
1:D:68:ASN:HB2	1:D:189:GLN:NE2	2.35	0.41
1:D:206:ASN:HD22	1:D:209:GLU:CG	2.33	0.41
1:D:249:GLU:OE1	1:D:536:LYS:HB3	2.21	0.41
1:D:388:THR:HG23	1:D:389:THR:H	1.85	0.41
1:D:511:HIS:CD2	1:M:488:ARG:HD2	2.55	0.41
1:E:180:LEU:HD21	1:E:518:TYR:CD1	2.55	0.41
1:F:399:PHE:CD1	1:F:400:PRO:HD2	2.55	0.41
1:G:64:VAL:HG21	1:G:446:ILE:HD13	2.02	0.41
1:G:399:PHE:CD1	1:G:400:PRO:HD2	2.55	0.41
1:I:206:ASN:HD22	1:I:209:GLU:CG	2.33	0.41
1:J:119:LYS:HB3	1:J:482:TYR:HB3	2.01	0.41
1:L:64:VAL:HG21	1:L:446:ILE:HD13	2.02	0.41
1:L:178:PRO:HD3	1:L:185:TRP:CG	2.54	0.41
1:M:378:ARG:HD2	1:M:378:ARG:HA	1.89	0.41
1:N:180:LEU:HD21	1:N:518:TYR:CD1	2.55	0.41
1:Q:178:PRO:HD3	1:Q:185:TRP:CG	2.54	0.41
1:Q:206:ASN:HD22	1:Q:209:GLU:CG	2.33	0.41
1:R:64:VAL:HG21	1:R:446:ILE:HD13	2.02	0.41
1:S:68:ASN:HB2	1:S:189:GLN:NE2	2.35	0.41
1:S:229:LEU:HA	1:S:233:GLU:OE1	2.20	0.41
1:T:180:LEU:HD21	1:T:518:TYR:CD1	2.55	0.41
1:U:388:THR:HG23	1:U:389:THR:H	1.85	0.41
1:V:136:LYS:NZ	1:V:149:ASN:OD1	2.50	0.41
1:V:388:THR:HG23	1:V:389:THR:H	1.85	0.41
1:V:399:PHE:CD1	1:V:400:PRO:HD2	2.55	0.41
1:W:68:ASN:HB2	1:W:189:GLN:NE2	2.35	0.41
1:W:136:LYS:NZ	1:W:149:ASN:OD1	2.50	0.41
1:b:64:VAL:HG21	1:b:446:ILE:HD13	2.02	0.41
1:c:136:LYS:NZ	1:c:149:ASN:OD1	2.50	0.41
1:c:206:ASN:HD22	1:c:209:GLU:CG	2.33	0.41
1:d:64:VAL:HG21	1:d:446:ILE:HD13	2.02	0.41
1:d:174:GLU:OE1	1:d:359:PRO:HG3	2.20	0.41
1:d:249:GLU:OE1	1:d:536:LYS:HB3	2.20	0.41
1:e:206:ASN:HD22	1:e:209:GLU:CG	2.33	0.41
1:g:174:GLU:OE1	1:g:359:PRO:HG3	2.20	0.41
1:g:229:LEU:HA	1:g:233:GLU:OE1	2.20	0.41
1:h:68:ASN:HB2	1:h:189:GLN:NE2	2.35	0.41
1:h:488:ARG:HD2	1:k:511:HIS:CD2	2.55	0.41
1:h:511:HIS:CD2	1:k:488:ARG:HD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:180:LEU:HD21	1:i:518:TYR:CD1	2.55	0.41
1:j:68:ASN:HB2	1:j:189:GLN:NE2	2.35	0.41
1:k:68:ASN:HB2	1:k:189:GLN:NE2	2.35	0.41
1:k:180:LEU:HD21	1:k:518:TYR:CD1	2.55	0.41
1:k:206:ASN:HD22	1:k:209:GLU:CG	2.33	0.41
1:k:249:GLU:OE1	1:k:536:LYS:HB3	2.20	0.41
1:m:157:ILE:O	1:m:226:HIS:HB2	2.19	0.41
1:n:64:VAL:HG21	1:n:446:ILE:HD13	2.02	0.41
1:n:174:GLU:OE1	1:n:359:PRO:HG3	2.20	0.41
1:p:388:THR:HG23	1:p:389:THR:H	1.85	0.41
1:r:229:LEU:HA	1:r:233:GLU:OE1	2.20	0.41
1:t:64:VAL:HG21	1:t:446:ILE:HD13	2.02	0.41
1:t:399:PHE:CD1	1:t:400:PRO:HD2	2.55	0.41
1:u:378:ARG:HD2	1:u:378:ARG:HA	1.90	0.41
1:u:488:ARG:HD2	1:1:511:HIS:CD2	2.55	0.41
1:v:68:ASN:HB2	1:v:189:GLN:NE2	2.35	0.41
1:v:174:GLU:OE1	1:v:359:PRO:HG3	2.20	0.41
1:v:249:GLU:OE1	1:v:536:LYS:HB3	2.20	0.41
1:x:119:LYS:HB3	1:x:482:TYR:HB3	2.01	0.41
1:x:206:ASN:HD22	1:x:209:GLU:CG	2.33	0.41
1:y:388:THR:HG23	1:y:389:THR:H	1.85	0.41
1:y:399:PHE:CD1	1:y:400:PRO:HD2	2.55	0.41
1:z:178:PRO:HD3	1:z:185:TRP:CG	2.54	0.41
1:2:206:ASN:HD22	1:2:209:GLU:CG	2.33	0.41
1:2:399:PHE:CD1	1:2:400:PRO:HD2	2.55	0.41
1:3:174:GLU:OE1	1:3:359:PRO:HG3	2.20	0.41
1:3:178:PRO:HD3	1:3:185:TRP:CG	2.54	0.41
1:4:180:LEU:HD21	1:4:518:TYR:CD1	2.55	0.41
1:A:64:VAL:HG21	1:A:446:ILE:HD13	2.02	0.41
1:A:101:GLN:HE22	1:I:266:ARG:HH12	1.66	0.41
1:A:174:GLU:OE1	1:A:359:PRO:HG3	2.20	0.41
1:B:511:HIS:CD2	1:I:488:ARG:HD2	2.55	0.41
1:C:174:GLU:OE1	1:C:359:PRO:HG3	2.20	0.41
1:C:388:THR:HG23	1:C:389:THR:H	1.85	0.41
1:D:180:LEU:HD21	1:D:518:TYR:CD1	2.55	0.41
1:D:488:ARG:HD2	1:M:511:HIS:CD2	2.56	0.41
1:E:174:GLU:OE1	1:E:359:PRO:HG3	2.20	0.41
1:J:206:ASN:HD22	1:J:209:GLU:CG	2.33	0.41
1:L:180:LEU:HD21	1:L:518:TYR:CD1	2.55	0.41
1:P:68:ASN:HB2	1:P:189:GLN:NE2	2.35	0.41
1:Q:119:LYS:HB3	1:Q:482:TYR:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:157:ILE:O	1:Q:226:HIS:HB2	2.19	0.41
1:S:157:ILE:O	1:S:226:HIS:HB2	2.19	0.41
1:S:178:PRO:HD3	1:S:185:TRP:CG	2.54	0.41
1:T:174:GLU:OE1	1:T:359:PRO:HG3	2.20	0.41
1:V:68:ASN:HB2	1:V:189:GLN:NE2	2.35	0.41
1:V:206:ASN:HD22	1:V:209:GLU:CG	2.33	0.41
1:W:399:PHE:CD1	1:W:400:PRO:HD2	2.55	0.41
1:X:229:LEU:HA	1:X:233:GLU:OE1	2.20	0.41
1:Y:488:ARG:HD2	1:Z:511:HIS:CD2	2.55	0.41
1:c:68:ASN:HB2	1:c:189:GLN:NE2	2.35	0.41
1:c:399:PHE:CD1	1:c:400:PRO:HD2	2.55	0.41
1:d:206:ASN:HD22	1:d:209:GLU:CG	2.33	0.41
1:e:64:VAL:HG21	1:e:446:ILE:HD13	2.02	0.41
1:e:174:GLU:OE1	1:e:359:PRO:HG3	2.20	0.41
1:f:64:VAL:HG21	1:f:446:ILE:HD13	2.02	0.41
1:i:488:ARG:HD2	1:l:511:HIS:CD2	2.55	0.41
1:n:206:ASN:HD22	1:n:209:GLU:CG	2.33	0.41
1:n:249:GLU:OE1	1:n:536:LYS:HB3	2.20	0.41
1:q:64:VAL:HG21	1:q:446:ILE:HD13	2.02	0.41
1:q:180:LEU:HD21	1:q:518:TYR:CD1	2.55	0.41
1:r:157:ILE:O	1:r:226:HIS:HB2	2.19	0.41
1:r:180:LEU:HD21	1:r:518:TYR:CD1	2.55	0.41
1:s:388:THR:HG23	1:s:389:THR:H	1.85	0.41
1:u:64:VAL:HG21	1:u:446:ILE:HD13	2.02	0.41
1:v:64:VAL:HG21	1:v:446:ILE:HD13	2.02	0.41
1:v:67:GLN:NE2	1:v:189:GLN:HB2	2.25	0.41
1:v:136:LYS:NZ	1:v:149:ASN:OD1	2.50	0.41
1:v:488:ARG:HD2	1:y:511:HIS:CD2	2.56	0.41
1:x:178:PRO:HD3	1:x:185:TRP:CG	2.54	0.41
1:z:64:VAL:HG21	1:z:446:ILE:HD13	2.02	0.41
1:2:119:LYS:HB3	1:2:482:TYR:HB3	2.01	0.41
1:6:68:ASN:HB2	1:6:189:GLN:NE2	2.35	0.41
1:6:136:LYS:NZ	1:6:149:ASN:OD1	2.50	0.41
1:A:67:GLN:NE2	1:A:189:GLN:HB2	2.25	0.41
1:A:249:GLU:OE1	1:A:536:LYS:HB3	2.20	0.41
1:B:174:GLU:OE1	1:B:359:PRO:HG3	2.20	0.41
1:B:206:ASN:HD22	1:B:209:GLU:CG	2.33	0.41
1:C:229:LEU:HA	1:C:233:GLU:OE1	2.20	0.41
1:D:229:LEU:HA	1:D:233:GLU:OE1	2.20	0.41
1:F:229:LEU:HA	1:F:233:GLU:OE1	2.20	0.41
1:I:64:VAL:HG21	1:I:446:ILE:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:399:PHE:CD1	1:J:400:PRO:HD2	2.55	0.41
1:K:119:LYS:HB3	1:K:482:TYR:HB3	2.01	0.41
1:K:180:LEU:HD21	1:K:518:TYR:CD1	2.55	0.41
1:Q:180:LEU:HD21	1:Q:518:TYR:CD1	2.55	0.41
1:R:180:LEU:HD21	1:R:518:TYR:CD1	2.55	0.41
1:R:249:GLU:OE1	1:R:536:LYS:HB3	2.20	0.41
1:T:68:ASN:HB2	1:T:189:GLN:NE2	2.35	0.41
1:U:229:LEU:HA	1:U:233:GLU:OE1	2.20	0.41
1:X:249:GLU:OE1	1:X:536:LYS:HB3	2.20	0.41
1:a:64:VAL:HG21	1:a:446:ILE:HD13	2.02	0.41
1:b:388:THR:HG23	1:b:389:THR:H	1.85	0.41
1:c:180:LEU:HD21	1:c:518:TYR:CD1	2.55	0.41
1:d:229:LEU:HA	1:d:233:GLU:OE1	2.20	0.41
1:d:341:SER:OG	1:d:344:LEU:O	2.39	0.41
1:g:388:THR:HG23	1:g:389:THR:H	1.85	0.41
1:g:488:ARG:HD2	1:z:511:HIS:CD2	2.55	0.41
1:j:341:SER:OG	1:j:344:LEU:O	2.39	0.41
1:k:229:LEU:HA	1:k:233:GLU:OE1	2.20	0.41
1:m:68:ASN:HB2	1:m:189:GLN:NE2	2.35	0.41
1:n:341:SER:OG	1:n:344:LEU:O	2.39	0.41
1:o:229:LEU:HA	1:o:233:GLU:OE1	2.20	0.41
1:p:68:ASN:HB2	1:p:189:GLN:NE2	2.35	0.41
1:p:136:LYS:NZ	1:p:149:ASN:OD1	2.50	0.41
1:p:180:LEU:HD21	1:p:518:TYR:CD1	2.55	0.41
1:p:206:ASN:HD22	1:p:209:GLU:CG	2.33	0.41
1:p:511:HIS:CD2	1:s:488:ARG:HD2	2.55	0.41
1:q:229:LEU:HA	1:q:233:GLU:OE1	2.20	0.41
1:q:249:GLU:OE1	1:q:536:LYS:HB3	2.20	0.41
1:s:229:LEU:HA	1:s:233:GLU:OE1	2.20	0.41
1:t:511:HIS:CD2	1:5:488:ARG:HD2	2.55	0.41
1:u:206:ASN:HD22	1:u:209:GLU:CG	2.33	0.41
1:w:174:GLU:OE1	1:w:359:PRO:HG3	2.20	0.41
1:x:157:ILE:O	1:x:226:HIS:HB2	2.19	0.41
1:y:229:LEU:HA	1:y:233:GLU:OE1	2.20	0.41
1:z:180:LEU:HD21	1:z:518:TYR:CD1	2.55	0.41
1:1:206:ASN:HD22	1:1:209:GLU:CG	2.33	0.41
1:2:68:ASN:HB2	1:2:189:GLN:NE2	2.35	0.41
1:3:64:VAL:HG21	1:3:446:ILE:HD13	2.02	0.41
1:6:399:PHE:CD1	1:6:400:PRO:HD2	2.55	0.41
1:7:64:VAL:HG21	1:7:446:ILE:HD13	2.02	0.41
1:7:341:SER:OG	1:7:344:LEU:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:ASN:HB2	1:A:189:GLN:NE2	2.35	0.41
1:A:488:ARG:HD2	1:F:511:HIS:CD2	2.56	0.41
1:B:215:GLN:HE21	1:L:491:ARG:HB2	1.86	0.41
1:C:488:ARG:HD2	1:L:511:HIS:CD2	2.55	0.41
1:E:341:SER:OG	1:E:344:LEU:O	2.39	0.41
1:F:249:GLU:H	1:F:531:LYS:HG2	1.86	0.41
1:F:388:THR:HG23	1:F:389:THR:H	1.85	0.41
1:G:511:HIS:CD2	1:H:488:ARG:HD2	2.55	0.41
1:H:249:GLU:OE1	1:H:536:LYS:HB3	2.20	0.41
1:I:174:GLU:OE1	1:I:359:PRO:HG3	2.20	0.41
1:L:399:PHE:CD1	1:L:400:PRO:HD2	2.55	0.41
1:N:488:ARG:HD2	1:O:511:HIS:CD2	2.55	0.41
1:O:378:ARG:HD2	1:O:378:ARG:HA	1.89	0.41
1:P:180:LEU:HD21	1:P:518:TYR:CD1	2.55	0.41
1:P:341:SER:OG	1:P:344:LEU:O	2.39	0.41
1:Q:64:VAL:HG21	1:Q:446:ILE:HD13	2.02	0.41
1:U:206:ASN:HD22	1:U:209:GLU:CG	2.33	0.41
1:U:341:SER:OG	1:U:344:LEU:O	2.39	0.41
1:V:249:GLU:OE1	1:V:536:LYS:HB3	2.20	0.41
1:V:341:SER:OG	1:V:344:LEU:O	2.39	0.41
1:W:511:HIS:CD2	1:X:488:ARG:HD2	2.55	0.41
1:X:206:ASN:HD22	1:X:209:GLU:CG	2.33	0.41
1:Y:64:VAL:HG21	1:Y:446:ILE:HD13	2.02	0.41
1:Y:341:SER:OG	1:Y:344:LEU:O	2.39	0.41
1:Z:206:ASN:ND2	1:Z:324:THR:HA	2.31	0.41
1:b:488:ARG:HD2	1:c:511:HIS:CD2	2.55	0.41
1:c:64:VAL:HG21	1:c:446:ILE:HD13	2.02	0.41
1:c:174:GLU:OE1	1:c:359:PRO:HG3	2.20	0.41
1:c:388:THR:HG23	1:c:389:THR:H	1.85	0.41
1:e:68:ASN:HB2	1:e:189:GLN:NE2	2.35	0.41
1:e:180:LEU:HD21	1:e:518:TYR:CD1	2.55	0.41
1:e:388:THR:HG23	1:e:389:THR:H	1.85	0.41
1:f:388:THR:HG23	1:f:389:THR:H	1.85	0.41
1:g:180:LEU:HD21	1:g:518:TYR:CD1	2.55	0.41
1:m:174:GLU:OE1	1:m:359:PRO:HG3	2.20	0.41
1:m:399:PHE:CD1	1:m:400:PRO:HD2	2.55	0.41
1:n:229:LEU:HA	1:n:233:GLU:OE1	2.20	0.41
1:o:136:LYS:NZ	1:o:149:ASN:OD1	2.50	0.41
1:o:206:ASN:HD22	1:o:209:GLU:CG	2.33	0.41
1:o:249:GLU:OE1	1:o:536:LYS:HB3	2.20	0.41
1:o:488:ARG:HD2	1:6:511:HIS:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:341:SER:OG	1:p:344:LEU:O	2.39	0.41
1:q:119:LYS:HB3	1:q:482:TYR:HB3	2.01	0.41
1:q:249:GLU:H	1:q:531:LYS:HG2	1.86	0.41
1:s:206:ASN:HD22	1:s:209:GLU:CG	2.33	0.41
1:s:341:SER:OG	1:s:344:LEU:O	2.39	0.41
1:w:341:SER:OG	1:w:344:LEU:O	2.39	0.41
1:x:229:LEU:HA	1:x:233:GLU:OE1	2.20	0.41
1:y:249:GLU:H	1:y:531:LYS:HG2	1.86	0.41
1:z:341:SER:OG	1:z:344:LEU:O	2.39	0.41
1:z:388:THR:HG23	1:z:389:THR:H	1.85	0.41
1:z:399:PHE:CD1	1:z:400:PRO:HD2	2.55	0.41
1:1:174:GLU:OE1	1:1:359:PRO:HG3	2.20	0.41
1:4:174:GLU:OE1	1:4:359:PRO:HG3	2.20	0.41
1:5:206:ASN:HD22	1:5:209:GLU:CG	2.33	0.41
1:B:341:SER:OG	1:B:344:LEU:O	2.39	0.41
1:C:180:LEU:HD21	1:C:518:TYR:CD1	2.55	0.41
1:C:249:GLU:H	1:C:531:LYS:HG2	1.86	0.41
1:C:341:SER:OG	1:C:344:LEU:O	2.39	0.41
1:D:101:GLN:HE22	1:P:266:ARG:HH12	1.66	0.41
1:H:64:VAL:HG21	1:H:446:ILE:HD13	2.02	0.41
1:H:206:ASN:HD22	1:H:209:GLU:CG	2.33	0.41
1:I:341:SER:OG	1:I:344:LEU:O	2.39	0.41
1:J:64:VAL:HG21	1:J:446:ILE:HD13	2.02	0.41
1:J:68:ASN:HB2	1:J:189:GLN:NE2	2.35	0.41
1:J:511:HIS:CD2	1:K:488:ARG:HD2	2.56	0.41
1:L:174:GLU:OE1	1:L:359:PRO:HG3	2.20	0.41
1:L:249:GLU:OE1	1:L:536:LYS:HB3	2.20	0.41
1:L:341:SER:OG	1:L:344:LEU:O	2.39	0.41
1:Q:174:GLU:OE1	1:Q:359:PRO:HG3	2.20	0.41
1:Q:341:SER:OG	1:Q:344:LEU:O	2.39	0.41
1:R:119:LYS:HB3	1:R:482:TYR:HB3	2.01	0.41
1:R:229:LEU:HA	1:R:233:GLU:OE1	2.20	0.41
1:R:249:GLU:H	1:R:531:LYS:HG2	1.86	0.41
1:S:341:SER:OG	1:S:344:LEU:O	2.39	0.41
1:S:488:ARG:HD2	1:T:511:HIS:CD2	2.55	0.41
1:T:341:SER:OG	1:T:344:LEU:O	2.39	0.41
1:T:399:PHE:CD1	1:T:400:PRO:HD2	2.55	0.41
1:V:180:LEU:HD21	1:V:518:TYR:CD1	2.55	0.41
1:W:341:SER:OG	1:W:344:LEU:O	2.39	0.41
1:X:101:GLN:HE22	1:e:266:ARG:NH1	2.18	0.41
1:X:249:GLU:H	1:X:531:LYS:HG2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:399:PHE:CD1	1:a:400:PRO:HD2	2.55	0.41
1:b:174:GLU:OE1	1:b:359:PRO:HG3	2.20	0.41
1:b:511:HIS:CD2	1:c:488:ARG:HD2	2.55	0.41
1:c:67:GLN:NE2	1:c:189:GLN:HB2	2.25	0.41
1:e:511:HIS:CD2	1:f:488:ARG:HD2	2.55	0.41
1:f:174:GLU:OE1	1:f:359:PRO:HG3	2.20	0.41
1:g:249:GLU:H	1:g:531:LYS:HG2	1.86	0.41
1:g:341:SER:OG	1:g:344:LEU:O	2.39	0.41
1:h:174:GLU:OE1	1:h:359:PRO:HG3	2.20	0.41
1:h:378:ARG:HD2	1:h:378:ARG:HA	1.90	0.41
1:j:266:ARG:HH12	1:k:101:GLN:HE22	1.66	0.41
1:j:488:ARG:HD2	1:w:511:HIS:CD2	2.55	0.41
1:k:206:ASN:ND2	1:k:324:THR:HA	2.32	0.41
1:m:341:SER:OG	1:m:344:LEU:O	2.39	0.41
1:o:249:GLU:H	1:o:531:LYS:HG2	1.86	0.41
1:r:341:SER:OG	1:r:344:LEU:O	2.39	0.41
1:t:229:LEU:HA	1:t:233:GLU:OE1	2.20	0.41
1:u:174:GLU:OE1	1:u:359:PRO:HG3	2.20	0.41
1:x:64:VAL:HG21	1:x:446:ILE:HD13	2.02	0.41
1:x:174:GLU:OE1	1:x:359:PRO:HG3	2.20	0.41
1:x:180:LEU:HD21	1:x:518:TYR:CD1	2.55	0.41
1:z:249:GLU:OE1	1:z:536:LYS:HB3	2.20	0.41
1:z:491:ARG:HB2	1:1:215:GLN:HE21	1.86	0.41
1:1:341:SER:OG	1:1:344:LEU:O	2.39	0.41
1:2:64:VAL:HG21	1:2:446:ILE:HD13	2.02	0.41
1:2:511:HIS:CD2	1:4:488:ARG:HD2	2.56	0.41
1:3:399:PHE:CD1	1:3:400:PRO:HD2	2.55	0.41
1:4:119:LYS:HB3	1:4:482:TYR:HB3	2.01	0.41
1:5:64:VAL:HG21	1:5:446:ILE:HD13	2.02	0.41
1:5:249:GLU:OE1	1:5:536:LYS:HB3	2.21	0.41
1:8:206:ASN:HD22	1:8:209:GLU:CG	2.33	0.41
1:8:341:SER:OG	1:8:344:LEU:O	2.39	0.41
1:B:249:GLU:H	1:B:531:LYS:HG2	1.86	0.41
1:B:382:LEU:O	1:B:392:LEU:HD12	2.21	0.41
1:D:206:ASN:ND2	1:D:324:THR:HA	2.32	0.41
1:E:249:GLU:H	1:E:531:LYS:HG2	1.86	0.41
1:E:511:HIS:CD2	1:P:488:ARG:HD2	2.56	0.41
1:K:174:GLU:OE1	1:K:359:PRO:HG3	2.20	0.41
1:K:249:GLU:OE1	1:K:536:LYS:HB3	2.20	0.41
1:L:68:ASN:HB2	1:L:189:GLN:NE2	2.35	0.41
1:L:388:THR:HG23	1:L:389:THR:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:249:GLU:OE1	1:M:536:LYS:HB3	2.20	0.41
1:N:249:GLU:OE1	1:N:536:LYS:HB3	2.20	0.41
1:Q:136:LYS:NZ	1:Q:149:ASN:OD1	2.50	0.41
1:Q:229:LEU:HA	1:Q:233:GLU:OE1	2.20	0.41
1:Q:249:GLU:OE1	1:Q:536:LYS:HB3	2.20	0.41
1:R:341:SER:OG	1:R:344:LEU:O	2.39	0.41
1:R:388:THR:HG23	1:R:389:THR:H	1.85	0.41
1:T:206:ASN:HD22	1:T:209:GLU:CG	2.33	0.41
1:W:249:GLU:OE1	1:W:536:LYS:HB3	2.21	0.41
1:X:341:SER:OG	1:X:344:LEU:O	2.39	0.41
1:Z:206:ASN:HD22	1:Z:209:GLU:CG	2.33	0.41
1:Z:341:SER:OG	1:Z:344:LEU:O	2.39	0.41
1:a:511:HIS:CD2	1:3:488:ARG:HD2	2.55	0.41
1:b:180:LEU:HD21	1:b:518:TYR:CD1	2.55	0.41
1:c:266:ARG:NH1	1:o:101:GLN:HE22	2.18	0.41
1:d:180:LEU:HD21	1:d:518:TYR:CD1	2.55	0.41
1:h:249:GLU:OE1	1:h:536:LYS:HB3	2.20	0.41
1:i:249:GLU:OE1	1:i:536:LYS:HB3	2.20	0.41
1:j:180:LEU:HD21	1:j:518:TYR:CD1	2.55	0.41
1:m:206:ASN:HD22	1:m:209:GLU:CG	2.33	0.41
1:m:511:HIS:CD2	1:r:488:ARG:HD2	2.55	0.41
1:n:180:LEU:HD21	1:n:518:TYR:CD1	2.55	0.41
1:o:64:VAL:HG21	1:o:446:ILE:HD13	2.02	0.41
1:p:64:VAL:HG21	1:p:446:ILE:HD13	2.02	0.41
1:p:249:GLU:OE1	1:p:536:LYS:HB3	2.20	0.41
1:q:341:SER:OG	1:q:344:LEU:O	2.39	0.41
1:u:249:GLU:OE1	1:u:536:LYS:HB3	2.20	0.41
1:u:341:SER:OG	1:u:344:LEU:O	2.39	0.41
1:w:249:GLU:H	1:w:531:LYS:HG2	1.86	0.41
1:x:341:SER:OG	1:x:344:LEU:O	2.39	0.41
1:z:174:GLU:OE1	1:z:359:PRO:HG3	2.20	0.41
1:2:180:LEU:HD21	1:2:518:TYR:CD1	2.55	0.41
1:3:68:ASN:HB2	1:3:189:GLN:NE2	2.35	0.41
1:3:249:GLU:H	1:3:531:LYS:HG2	1.86	0.41
1:4:229:LEU:HA	1:4:233:GLU:OE1	2.20	0.41
1:4:249:GLU:OE1	1:4:536:LYS:HB3	2.20	0.41
1:5:229:LEU:HA	1:5:233:GLU:OE1	2.20	0.41
1:6:249:GLU:OE1	1:6:536:LYS:HB3	2.20	0.41
1:8:101:GLN:HB3	1:8:176:VAL:HG11	2.03	0.41
1:8:206:ASN:ND2	1:8:324:THR:HA	2.31	0.41
1:8:388:THR:HG23	1:8:389:THR:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:101:GLN:HE22	1:I:266:ARG:NH1	2.19	0.41
1:A:511:HIS:CD2	1:F:488:ARG:HD2	2.56	0.41
1:B:249:GLU:OE1	1:B:536:LYS:HB3	2.20	0.41
1:F:180:LEU:HD21	1:F:518:TYR:CD1	2.55	0.41
1:G:229:LEU:HA	1:G:233:GLU:OE1	2.20	0.41
1:G:341:SER:OG	1:G:344:LEU:O	2.39	0.41
1:H:229:LEU:HA	1:H:233:GLU:OE1	2.20	0.41
1:H:341:SER:OG	1:H:344:LEU:O	2.39	0.41
1:I:249:GLU:OE1	1:I:536:LYS:HB3	2.20	0.41
1:I:378:ARG:HD2	1:I:378:ARG:HA	1.90	0.41
1:I:382:LEU:O	1:I:392:LEU:HD12	2.21	0.41
1:K:64:VAL:HG21	1:K:446:ILE:HD13	2.02	0.41
1:K:101:GLN:HB3	1:K:176:VAL:HG11	2.03	0.41
1:K:229:LEU:HA	1:K:233:GLU:OE1	2.20	0.41
1:M:174:GLU:OE1	1:M:359:PRO:HG3	2.20	0.41
1:N:249:GLU:H	1:N:531:LYS:HG2	1.86	0.41
1:N:382:LEU:O	1:N:392:LEU:HD12	2.21	0.41
1:O:180:LEU:HA	1:O:181:PRO:HD3	1.93	0.41
1:R:101:GLN:HE22	1:U:266:ARG:NH1	2.19	0.41
1:T:249:GLU:H	1:T:531:LYS:HG2	1.86	0.41
1:U:488:ARG:HD2	1:V:511:HIS:CD2	2.55	0.41
1:U:511:HIS:CD2	1:V:488:ARG:HD2	2.55	0.41
1:V:64:VAL:HG21	1:V:446:ILE:HD13	2.02	0.41
1:V:229:LEU:HA	1:V:233:GLU:OE1	2.20	0.41
1:W:64:VAL:HG21	1:W:446:ILE:HD13	2.02	0.41
1:W:180:LEU:HD21	1:W:518:TYR:CD1	2.55	0.41
1:X:64:VAL:HG21	1:X:446:ILE:HD13	2.02	0.41
1:X:136:LYS:NZ	1:X:149:ASN:OD1	2.50	0.41
1:Y:382:LEU:O	1:Y:392:LEU:HD12	2.21	0.41
1:Z:101:GLN:HB3	1:Z:176:VAL:HG11	2.03	0.41
1:Z:388:THR:HG23	1:Z:389:THR:H	1.85	0.41
1:a:68:ASN:HB2	1:a:189:GLN:NE2	2.35	0.41
1:a:249:GLU:OE1	1:a:536:LYS:HB3	2.20	0.41
1:a:249:GLU:H	1:a:531:LYS:HG2	1.86	0.41
1:a:488:ARG:HD2	1:3:511:HIS:CD2	2.55	0.41
1:c:382:LEU:O	1:c:392:LEU:HD12	2.21	0.41
1:e:488:ARG:HD2	1:f:511:HIS:CD2	2.55	0.41
1:f:180:LEU:HD21	1:f:518:TYR:CD1	2.55	0.41
1:i:249:GLU:H	1:i:531:LYS:HG2	1.86	0.41
1:i:388:THR:HG23	1:i:389:THR:H	1.85	0.41
1:l:249:GLU:OE1	1:l:536:LYS:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:341:SER:OG	1:o:344:LEU:O	2.39	0.41
1:p:229:LEU:HA	1:p:233:GLU:OE1	2.20	0.41
1:u:382:LEU:O	1:u:392:LEU:HD12	2.21	0.41
1:v:511:HIS:CD2	1:y:488:ARG:HD2	2.56	0.41
1:x:249:GLU:OE1	1:x:536:LYS:HB3	2.20	0.41
1:y:174:GLU:OE1	1:y:359:PRO:HG3	2.20	0.41
1:z:382:LEU:O	1:z:392:LEU:HD12	2.21	0.41
1:1:249:GLU:OE1	1:1:536:LYS:HB3	2.20	0.41
1:1:249:GLU:H	1:1:531:LYS:HG2	1.86	0.41
1:1:382:LEU:O	1:1:392:LEU:HD12	2.21	0.41
1:4:64:VAL:HG21	1:4:446:ILE:HD13	2.02	0.41
1:5:341:SER:OG	1:5:344:LEU:O	2.39	0.41
1:6:180:LEU:HD21	1:6:518:TYR:CD1	2.55	0.41
1:6:341:SER:OG	1:6:344:LEU:O	2.39	0.41
1:7:249:GLU:H	1:7:531:LYS:HG2	1.86	0.41
1:7:382:LEU:O	1:7:392:LEU:HD12	2.21	0.41
1:A:101:GLN:HB3	1:A:176:VAL:HG11	2.03	0.41
1:F:174:GLU:OE1	1:F:359:PRO:HG3	2.20	0.41
1:F:382:LEU:O	1:F:392:LEU:HD12	2.21	0.41
1:G:206:ASN:HD22	1:G:209:GLU:CG	2.33	0.41
1:G:488:ARG:HD2	1:H:511:HIS:CD2	2.55	0.41
1:J:180:LEU:HD21	1:J:518:TYR:CD1	2.55	0.41
1:K:382:LEU:O	1:K:392:LEU:HD12	2.21	0.41
1:L:101:GLN:HB3	1:L:176:VAL:HG11	2.03	0.41
1:L:382:LEU:O	1:L:392:LEU:HD12	2.21	0.41
1:M:229:LEU:HA	1:M:233:GLU:OE1	2.20	0.41
1:O:180:LEU:HD21	1:O:518:TYR:CD1	2.55	0.41
1:O:249:GLU:OE1	1:O:536:LYS:HB3	2.20	0.41
1:O:382:LEU:O	1:O:392:LEU:HD12	2.21	0.41
1:P:101:GLN:HB3	1:P:176:VAL:HG11	2.03	0.41
1:R:382:LEU:O	1:R:392:LEU:HD12	2.21	0.41
1:S:249:GLU:OE1	1:S:536:LYS:HB3	2.20	0.41
1:U:174:GLU:OE1	1:U:359:PRO:HG3	2.20	0.41
1:U:249:GLU:OE1	1:U:536:LYS:HB3	2.20	0.41
1:V:382:LEU:O	1:V:392:LEU:HD12	2.21	0.41
1:X:382:LEU:O	1:X:392:LEU:HD12	2.21	0.41
1:Y:249:GLU:OE1	1:Y:536:LYS:HB3	2.20	0.41
1:Z:101:GLN:HE22	1:3:266:ARG:NH1	2.19	0.41
1:a:266:ARG:NH1	1:8:101:GLN:HE22	2.19	0.41
1:c:249:GLU:H	1:c:531:LYS:HG2	1.86	0.41
1:e:382:LEU:O	1:e:392:LEU:HD12	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:249:GLU:OE1	1:f:536:LYS:HB3	2.20	0.41
1:g:153:ALA:HA	1:k:134:GLN:HE22	1.86	0.41
1:g:511:HIS:CD2	1:z:488:ARG:HD2	2.55	0.41
1:h:101:GLN:HB3	1:h:176:VAL:HG11	2.03	0.41
1:h:229:LEU:HA	1:h:233:GLU:OE1	2.20	0.41
1:i:382:LEU:O	1:i:392:LEU:HD12	2.21	0.41
1:j:101:GLN:HB3	1:j:176:VAL:HG11	2.03	0.41
1:k:382:LEU:O	1:k:392:LEU:HD12	2.21	0.41
1:o:382:LEU:O	1:o:392:LEU:HD12	2.21	0.41
1:p:382:LEU:O	1:p:392:LEU:HD12	2.21	0.41
1:q:382:LEU:O	1:q:392:LEU:HD12	2.21	0.41
1:q:429:ASP:C	1:s:401:ASN:HD21	2.27	0.41
1:q:511:HIS:CD2	1:x:488:ARG:HD2	2.55	0.41
1:s:249:GLU:OE1	1:s:536:LYS:HB3	2.20	0.41
1:t:488:ARG:HD2	1:5:511:HIS:CD2	2.55	0.41
1:u:266:ARG:NH1	1:v:101:GLN:HE22	2.19	0.41
1:w:64:VAL:HG21	1:w:446:ILE:HD13	2.02	0.41
1:y:180:LEU:HD21	1:y:518:TYR:CD1	2.55	0.41
1:z:68:ASN:HB2	1:z:189:GLN:NE2	2.35	0.41
1:2:388:THR:HG23	1:2:389:THR:H	1.85	0.41
1:3:249:GLU:OE1	1:3:536:LYS:HB3	2.20	0.41
1:4:101:GLN:HB3	1:4:176:VAL:HG11	2.03	0.41
1:4:382:LEU:O	1:4:392:LEU:HD12	2.21	0.41
1:7:206:ASN:HD22	1:7:209:GLU:CG	2.33	0.41
1:8:64:VAL:HG21	1:8:446:ILE:HD13	2.02	0.41
1:B:229:LEU:HA	1:B:233:GLU:OE1	2.20	0.41
1:C:129:LYS:HE2	1:C:236:GLU:OE2	2.21	0.41
1:C:153:ALA:HA	1:D:134:GLN:HE22	1.86	0.41
1:C:511:HIS:CD2	1:L:488:ARG:HD2	2.55	0.41
1:D:249:GLU:H	1:D:531:LYS:HG2	1.86	0.41
1:D:382:LEU:O	1:D:392:LEU:HD12	2.21	0.41
1:E:64:VAL:HG21	1:E:446:ILE:HD13	2.02	0.41
1:E:101:GLN:HE22	1:F:266:ARG:NH1	2.19	0.41
1:E:249:GLU:OE1	1:E:536:LYS:HB3	2.20	0.41
1:F:101:GLN:HB3	1:F:176:VAL:HG11	2.03	0.41
1:G:180:LEU:HD21	1:G:518:TYR:CD1	2.55	0.41
1:G:249:GLU:H	1:G:531:LYS:HG2	1.86	0.41
1:H:266:ARG:NH1	1:W:101:GLN:HE22	2.19	0.41
1:H:382:LEU:O	1:H:392:LEU:HD12	2.21	0.41
1:I:249:GLU:H	1:I:531:LYS:HG2	1.86	0.41
1:J:388:THR:HG23	1:J:389:THR:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:206:ASN:HD22	1:K:209:GLU:CG	2.33	0.41
1:K:266:ARG:NH1	1:a:101:GLN:HE22	2.19	0.41
1:K:388:THR:HG23	1:K:389:THR:H	1.85	0.41
1:L:129:LYS:HE2	1:L:236:GLU:OE2	2.21	0.41
1:L:157:ILE:O	1:L:226:HIS:HB2	2.19	0.41
1:L:229:LEU:HA	1:L:233:GLU:OE1	2.20	0.41
1:M:101:GLN:HE22	1:b:266:ARG:NH1	2.18	0.41
1:M:101:GLN:HB3	1:M:176:VAL:HG11	2.03	0.41
1:M:206:ASN:HD22	1:M:209:GLU:CG	2.33	0.41
1:N:229:LEU:HA	1:N:233:GLU:OE1	2.20	0.41
1:O:129:LYS:HE2	1:O:236:GLU:OE2	2.21	0.41
1:O:206:ASN:HD22	1:O:209:GLU:CG	2.33	0.41
1:O:229:LEU:HA	1:O:233:GLU:OE1	2.20	0.41
1:P:64:VAL:HG21	1:P:446:ILE:HD13	2.02	0.41
1:P:249:GLU:H	1:P:531:LYS:HG2	1.86	0.41
1:Q:206:ASN:ND2	1:Q:324:THR:HA	2.31	0.41
1:Q:488:ARG:HD2	1:R:511:HIS:CD2	2.55	0.41
1:R:491:ARG:HB2	1:S:215:GLN:HE21	1.86	0.41
1:S:64:VAL:HG21	1:S:446:ILE:HD13	2.02	0.41
1:S:382:LEU:O	1:S:392:LEU:HD12	2.21	0.41
1:S:399:PHE:CD1	1:S:400:PRO:HD2	2.55	0.41
1:T:229:LEU:HA	1:T:233:GLU:OE1	2.20	0.41
1:W:382:LEU:O	1:W:392:LEU:HD12	2.21	0.41
1:Y:129:LYS:HE2	1:Y:236:GLU:OE2	2.21	0.41
1:Y:206:ASN:HD22	1:Y:209:GLU:CG	2.33	0.41
1:Y:249:GLU:H	1:Y:531:LYS:HG2	1.86	0.41
1:Y:388:THR:HG23	1:Y:389:THR:H	1.85	0.41
1:Z:64:VAL:HG21	1:Z:446:ILE:HD13	2.02	0.41
1:Z:174:GLU:OE1	1:Z:359:PRO:HG3	2.20	0.41
1:a:341:SER:OG	1:a:344:LEU:O	2.39	0.41
1:b:249:GLU:OE1	1:b:536:LYS:HB3	2.20	0.41
1:b:341:SER:OG	1:b:344:LEU:O	2.39	0.41
1:c:180:LEU:HA	1:c:181:PRO:HD3	1.92	0.41
1:c:341:SER:OG	1:c:344:LEU:O	2.39	0.41
1:d:249:GLU:H	1:d:531:LYS:HG2	1.86	0.41
1:e:67:GLN:NE2	1:e:189:GLN:HB2	2.25	0.41
1:e:249:GLU:H	1:e:531:LYS:HG2	1.86	0.41
1:e:341:SER:OG	1:e:344:LEU:O	2.39	0.41
1:f:101:GLN:HE22	1:g:266:ARG:NH1	2.19	0.41
1:f:266:ARG:NH1	1:h:101:GLN:HE22	2.18	0.41
1:f:341:SER:OG	1:f:344:LEU:O	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:129:LYS:HE2	1:g:236:GLU:OE2	2.21	0.41
1:i:229:LEU:HA	1:i:233:GLU:OE1	2.20	0.41
1:j:249:GLU:H	1:j:531:LYS:HG2	1.86	0.41
1:j:401:ASN:HD21	1:k:429:ASP:C	2.29	0.41
1:k:101:GLN:HB3	1:k:176:VAL:HG11	2.03	0.41
1:k:249:GLU:H	1:k:531:LYS:HG2	1.86	0.41
1:l:129:LYS:HE2	1:l:236:GLU:OE2	2.21	0.41
1:l:180:LEU:HD21	1:l:518:TYR:CD1	2.55	0.41
1:l:206:ASN:HD22	1:l:209:GLU:CG	2.33	0.41
1:l:229:LEU:HA	1:l:233:GLU:OE1	2.20	0.41
1:l:382:LEU:O	1:l:392:LEU:HD12	2.21	0.41
1:m:229:LEU:HA	1:m:233:GLU:OE1	2.20	0.41
1:m:249:GLU:H	1:m:531:LYS:HG2	1.86	0.41
1:m:249:GLU:OE1	1:m:536:LYS:HB3	2.20	0.41
1:q:101:GLN:HB3	1:q:176:VAL:HG11	2.03	0.41
1:q:206:ASN:HD22	1:q:209:GLU:CG	2.33	0.41
1:q:388:THR:HG23	1:q:389:THR:H	1.85	0.41
1:r:249:GLU:OE1	1:r:536:LYS:HB3	2.20	0.41
1:r:399:PHE:CD1	1:r:400:PRO:HD2	2.55	0.41
1:r:491:ARG:HB2	1:s:215:GLN:HE21	1.86	0.41
1:s:174:GLU:OE1	1:s:359:PRO:HG3	2.20	0.41
1:t:206:ASN:HD22	1:t:209:GLU:CG	2.33	0.41
1:t:249:GLU:H	1:t:531:LYS:HG2	1.86	0.41
1:t:341:SER:OG	1:t:344:LEU:O	2.39	0.41
1:v:101:GLN:HB3	1:v:176:VAL:HG11	2.03	0.41
1:v:388:THR:HG23	1:v:389:THR:H	1.85	0.41
1:w:101:GLN:HE22	1:y:266:ARG:NH1	2.19	0.41
1:w:229:LEU:HA	1:w:233:GLU:OE1	2.20	0.41
1:x:136:LYS:NZ	1:x:149:ASN:OD1	2.50	0.41
1:y:382:LEU:O	1:y:392:LEU:HD12	2.21	0.41
1:z:101:GLN:HB3	1:z:176:VAL:HG11	2.03	0.41
1:z:129:LYS:HE2	1:z:236:GLU:OE2	2.21	0.41
1:2:488:ARG:HD2	1:4:511:HIS:CD2	2.55	0.41
1:3:101:GLN:HE22	1:4:266:ARG:NH1	2.19	0.41
1:3:206:ASN:HD22	1:3:209:GLU:CG	2.33	0.41
1:3:341:SER:OG	1:3:344:LEU:O	2.39	0.41
1:4:388:THR:HG23	1:4:389:THR:H	1.85	0.41
1:5:266:ARG:NH1	1:6:101:GLN:HE22	2.19	0.41
1:5:382:LEU:O	1:5:392:LEU:HD12	2.21	0.41
1:5:388:THR:HG23	1:5:389:THR:H	1.85	0.41
1:6:64:VAL:HG21	1:6:446:ILE:HD13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:101:GLN:HB3	1:6:176:VAL:HG11	2.03	0.41
1:6:382:LEU:O	1:6:392:LEU:HD12	2.21	0.41
1:7:129:LYS:HE2	1:7:236:GLU:OE2	2.21	0.41
1:7:388:THR:HG23	1:7:389:THR:H	1.85	0.41
1:8:174:GLU:OE1	1:8:359:PRO:HG3	2.20	0.41
1:8:180:LEU:HA	1:8:181:PRO:HD3	1.92	0.41
1:B:129:LYS:HE2	1:B:236:GLU:OE2	2.21	0.41
1:B:491:ARG:HB2	1:J:215:GLN:HE21	1.86	0.41
1:C:266:ARG:NH1	1:b:101:GLN:HE22	2.19	0.41
1:D:429:ASP:C	1:P:401:ASN:HD21	2.29	0.41
1:H:101:GLN:HB3	1:H:176:VAL:HG11	2.03	0.41
1:I:388:THR:HG23	1:I:389:THR:H	1.85	0.41
1:J:488:ARG:HD2	1:K:511:HIS:CD2	2.55	0.41
1:L:249:GLU:H	1:L:531:LYS:HG2	1.86	0.41
1:N:129:LYS:HE2	1:N:236:GLU:OE2	2.21	0.41
1:N:134:GLN:HE22	1:m:153:ALA:HA	1.86	0.41
1:N:388:THR:HG23	1:N:389:THR:H	1.85	0.41
1:O:388:THR:HG23	1:O:389:THR:H	1.85	0.41
1:R:129:LYS:HE2	1:R:236:GLU:OE2	2.21	0.41
1:R:206:ASN:HD22	1:R:209:GLU:CG	2.33	0.41
1:U:180:LEU:HD21	1:U:518:TYR:CD1	2.55	0.41
1:V:129:LYS:HE2	1:V:236:GLU:OE2	2.21	0.41
1:W:101:GLN:HB3	1:W:176:VAL:HG11	2.03	0.41
1:Y:98:ASN:HD22	1:Y:175:ASP:CG	2.29	0.41
1:a:98:ASN:HD22	1:a:175:ASP:CG	2.29	0.41
1:c:101:GLN:HE22	1:p:266:ARG:NH1	2.19	0.41
1:d:266:ARG:NH1	1:l:101:GLN:HE22	2.19	0.41
1:d:388:THR:HG23	1:d:389:THR:H	1.85	0.41
1:g:206:ASN:HD22	1:g:209:GLU:CG	2.33	0.41
1:g:249:GLU:OE1	1:g:536:LYS:HB3	2.20	0.41
1:i:129:LYS:HE2	1:i:236:GLU:OE2	2.21	0.41
1:j:64:VAL:HG21	1:j:446:ILE:HD13	2.02	0.41
1:l:64:VAL:HG21	1:l:446:ILE:HD13	2.02	0.41
1:l:388:THR:HG23	1:l:389:THR:H	1.85	0.41
1:n:249:GLU:H	1:n:531:LYS:HG2	1.86	0.41
1:n:388:THR:HG23	1:n:389:THR:H	1.85	0.41
1:q:215:GLN:HE21	1:s:491:ARG:HB2	1.85	0.41
1:q:491:ARG:HB2	1:r:215:GLN:HE21	1.86	0.41
1:r:64:VAL:HG21	1:r:446:ILE:HD13	2.02	0.41
1:r:382:LEU:O	1:r:392:LEU:HD12	2.21	0.41
1:s:180:LEU:HD21	1:s:518:TYR:CD1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:249:GLU:H	1:u:531:LYS:HG2	1.86	0.41
1:w:249:GLU:OE1	1:w:536:LYS:HB3	2.20	0.41
1:w:382:LEU:O	1:w:392:LEU:HD12	2.21	0.41
1:y:101:GLN:HB3	1:y:176:VAL:HG11	2.03	0.41
1:z:157:ILE:O	1:z:226:HIS:HB2	2.19	0.41
1:z:206:ASN:HD22	1:z:209:GLU:CG	2.33	0.41
1:z:229:LEU:HA	1:z:233:GLU:OE1	2.20	0.41
1:z:249:GLU:H	1:z:531:LYS:HG2	1.86	0.41
1:1:491:ARG:HB2	1:2:215:GLN:HE21	1.86	0.41
1:2:98:ASN:HD22	1:2:175:ASP:CG	2.29	0.41
1:2:229:LEU:HA	1:2:233:GLU:OE1	2.20	0.41
1:3:98:ASN:HD22	1:3:175:ASP:CG	2.29	0.41
1:3:229:LEU:HA	1:3:233:GLU:OE1	2.20	0.41
1:4:206:ASN:HD22	1:4:209:GLU:CG	2.33	0.41
1:7:249:GLU:OE1	1:7:536:LYS:HB3	2.21	0.41
1:C:206:ASN:HD22	1:C:209:GLU:CG	2.33	0.40
1:D:101:GLN:HB3	1:D:176:VAL:HG11	2.03	0.40
1:D:136:LYS:NZ	1:D:149:ASN:OD1	2.50	0.40
1:E:382:LEU:O	1:E:392:LEU:HD12	2.21	0.40
1:F:136:LYS:NZ	1:F:149:ASN:OD1	2.50	0.40
1:F:341:SER:OG	1:F:344:LEU:O	2.39	0.40
1:G:68:ASN:HB2	1:G:189:GLN:NE2	2.35	0.40
1:H:388:THR:HG23	1:H:389:THR:H	1.85	0.40
1:J:229:LEU:HA	1:J:233:GLU:OE1	2.20	0.40
1:J:249:GLU:OE1	1:J:536:LYS:HB3	2.20	0.40
1:M:215:GLN:HE21	1:b:491:ARG:HB2	1.87	0.40
1:N:259:PHE:CD1	1:N:289:LYS:HD2	2.57	0.40
1:O:101:GLN:HE22	1:n:266:ARG:NH1	2.19	0.40
1:Q:388:THR:HG23	1:Q:389:THR:H	1.85	0.40
1:R:101:GLN:HB3	1:R:176:VAL:HG11	2.03	0.40
1:T:153:ALA:HA	1:i:134:GLN:HE22	1.86	0.40
1:T:249:GLU:OE1	1:T:536:LYS:HB3	2.20	0.40
1:V:259:PHE:CD1	1:V:289:LYS:HD2	2.57	0.40
1:V:266:ARG:NH1	1:e:101:GLN:HE22	2.19	0.40
1:X:129:LYS:HE2	1:X:236:GLU:OE2	2.21	0.40
1:Z:249:GLU:OE1	1:Z:536:LYS:HB3	2.20	0.40
1:a:206:ASN:HD22	1:a:209:GLU:CG	2.33	0.40
1:a:229:LEU:HA	1:a:233:GLU:OE1	2.20	0.40
1:d:259:PHE:CD1	1:d:289:LYS:HD2	2.56	0.40
1:e:249:GLU:OE1	1:e:536:LYS:HB3	2.20	0.40
1:f:229:LEU:HA	1:f:233:GLU:OE1	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:401:ASN:HD21	1:h:429:ASP:C	2.29	0.40
1:g:40:THR:HG1	1:g:132:ASN:H	1.64	0.40
1:h:129:LYS:HE2	1:h:236:GLU:OE2	2.21	0.40
1:h:249:GLU:H	1:h:531:LYS:HG2	1.86	0.40
1:i:259:PHE:CD1	1:i:289:LYS:HD2	2.57	0.40
1:m:488:ARG:HD2	1:r:511:HIS:CD2	2.56	0.40
1:p:259:PHE:CD1	1:p:289:LYS:HD2	2.57	0.40
1:q:129:LYS:HE2	1:q:236:GLU:OE2	2.21	0.40
1:q:398:MET:SD	1:s:398:MET:HG2	2.61	0.40
1:t:180:LEU:HD21	1:t:518:TYR:CD1	2.55	0.40
1:1:229:LEU:HA	1:1:233:GLU:OE1	2.20	0.40
1:2:134:GLN:HE22	1:3:153:ALA:HA	1.87	0.40
1:2:249:GLU:OE1	1:2:536:LYS:HB3	2.20	0.40
1:3:180:LEU:HD21	1:3:518:TYR:CD1	2.55	0.40
1:5:101:GLN:HB3	1:5:176:VAL:HG11	2.03	0.40
1:A:229:LEU:HA	1:A:233:GLU:OE1	2.20	0.40
1:A:341:SER:OG	1:A:344:LEU:O	2.39	0.40
1:A:388:THR:HG23	1:A:389:THR:H	1.85	0.40
1:B:64:VAL:HG21	1:B:446:ILE:HD13	2.02	0.40
1:C:249:GLU:OE1	1:C:536:LYS:HB3	2.20	0.40
1:E:229:LEU:HA	1:E:233:GLU:OE1	2.20	0.40
1:F:180:LEU:HA	1:F:181:PRO:HD3	1.93	0.40
1:H:215:GLN:HE21	1:Y:491:ARG:HB2	1.87	0.40
1:I:134:GLN:HE22	1:J:153:ALA:HA	1.87	0.40
1:J:134:GLN:HE22	1:a:153:ALA:HA	1.87	0.40
1:J:249:GLU:H	1:J:531:LYS:HG2	1.86	0.40
1:J:378:ARG:HA	1:J:378:ARG:HD2	1.89	0.40
1:K:491:ARG:HB2	1:a:215:GLN:HE21	1.87	0.40
1:L:206:ASN:HD22	1:L:209:GLU:CG	2.33	0.40
1:M:129:LYS:HE2	1:M:236:GLU:OE2	2.21	0.40
1:M:249:GLU:H	1:M:531:LYS:HG2	1.86	0.40
1:M:382:LEU:O	1:M:392:LEU:HD12	2.21	0.40
1:M:388:THR:HG23	1:M:389:THR:H	1.85	0.40
1:O:64:VAL:HG21	1:O:446:ILE:HD13	2.02	0.40
1:P:382:LEU:O	1:P:392:LEU:HD12	2.21	0.40
1:S:101:GLN:HB3	1:S:176:VAL:HG11	2.03	0.40
1:T:259:PHE:CD1	1:T:289:LYS:HD2	2.57	0.40
1:T:382:LEU:O	1:T:392:LEU:HD12	2.21	0.40
1:V:491:ARG:HB2	1:e:215:GLN:HE21	1.86	0.40
1:W:388:THR:HG23	1:W:389:THR:H	1.85	0.40
1:W:488:ARG:HD2	1:X:511:HIS:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:229:LEU:HA	1:Z:233:GLU:OE1	2.20	0.40
1:Z:382:LEU:O	1:Z:392:LEU:HD12	2.21	0.40
1:a:129:LYS:HE2	1:a:236:GLU:OE2	2.21	0.40
1:b:129:LYS:HE2	1:b:236:GLU:OE2	2.21	0.40
1:b:229:LEU:HA	1:b:233:GLU:OE1	2.20	0.40
1:c:215:GLN:HE21	1:p:491:ARG:HB2	1.86	0.40
1:d:129:LYS:HE2	1:d:236:GLU:OE2	2.21	0.40
1:e:129:LYS:HE2	1:e:236:GLU:OE2	2.21	0.40
1:f:491:ARG:HB2	1:h:215:GLN:HE21	1.87	0.40
1:g:64:VAL:HG21	1:g:446:ILE:HD13	2.02	0.40
1:h:206:ASN:HD22	1:h:209:GLU:CG	2.33	0.40
1:m:259:PHE:CD1	1:m:289:LYS:HD2	2.57	0.40
1:m:382:LEU:O	1:m:392:LEU:HD12	2.21	0.40
1:n:129:LYS:HE2	1:n:236:GLU:OE2	2.21	0.40
1:n:259:PHE:CD1	1:n:289:LYS:HD2	2.57	0.40
1:o:129:LYS:HE2	1:o:236:GLU:OE2	2.21	0.40
1:o:511:HIS:CD2	1:6:488:ARG:HD2	2.56	0.40
1:p:129:LYS:HE2	1:p:236:GLU:OE2	2.21	0.40
1:r:101:GLN:HB3	1:r:176:VAL:HG11	2.03	0.40
1:u:101:GLN:HB3	1:u:176:VAL:HG11	2.03	0.40
1:u:134:GLN:HE22	1:2:153:ALA:HA	1.87	0.40
1:v:229:LEU:HA	1:v:233:GLU:OE1	2.20	0.40
1:v:249:GLU:H	1:v:531:LYS:HG2	1.86	0.40
1:x:249:GLU:H	1:x:531:LYS:HG2	1.86	0.40
1:y:341:SER:OG	1:y:344:LEU:O	2.39	0.40
1:1:64:VAL:HG21	1:1:446:ILE:HD13	2.02	0.40
1:1:129:LYS:HE2	1:1:236:GLU:OE2	2.21	0.40
1:2:249:GLU:H	1:2:531:LYS:HG2	1.86	0.40
1:7:98:ASN:HD22	1:7:175:ASP:CG	2.29	0.40
1:7:229:LEU:HA	1:7:233:GLU:OE1	2.20	0.40
1:8:382:LEU:O	1:8:392:LEU:HD12	2.21	0.40
1:A:134:GLN:HE22	1:E:153:ALA:HA	1.87	0.40
1:C:64:VAL:HG21	1:C:446:ILE:HD13	2.02	0.40
1:C:491:ARG:HB2	1:b:215:GLN:HE21	1.86	0.40
1:E:206:ASN:HD22	1:E:209:GLU:CG	2.33	0.40
1:I:101:GLN:HB3	1:I:176:VAL:HG11	2.03	0.40
1:J:136:LYS:NZ	1:J:149:ASN:OD1	2.50	0.40
1:M:64:VAL:HG21	1:M:446:ILE:HD13	2.02	0.40
1:M:134:GLN:HE22	1:N:153:ALA:HA	1.86	0.40
1:M:153:ALA:HA	1:c:134:GLN:HE22	1.87	0.40
1:M:429:ASP:C	1:b:401:ASN:HD21	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:133:LEU:O	1:N:231:THR:OG1	2.39	0.40
1:O:259:PHE:CD1	1:O:289:LYS:HD2	2.57	0.40
1:Q:249:GLU:H	1:Q:531:LYS:HG2	1.86	0.40
1:S:266:ARG:NH1	1:U:101:GLN:HE22	2.19	0.40
1:S:511:HIS:CD2	1:T:488:ARG:HD2	2.56	0.40
1:T:388:THR:HG23	1:T:389:THR:H	1.85	0.40
1:U:101:GLN:HB3	1:U:176:VAL:HG11	2.03	0.40
1:U:259:PHE:CD1	1:U:289:LYS:HD2	2.57	0.40
1:V:98:ASN:HD22	1:V:175:ASP:CG	2.29	0.40
1:Y:101:GLN:HB3	1:Y:176:VAL:HG11	2.03	0.40
1:Y:229:LEU:HA	1:Y:233:GLU:OE1	2.20	0.40
1:a:180:LEU:HD21	1:a:518:TYR:CD1	2.55	0.40
1:a:388:THR:HG23	1:a:389:THR:H	1.85	0.40
1:c:129:LYS:HE2	1:c:236:GLU:OE2	2.21	0.40
1:c:249:GLU:OE1	1:c:536:LYS:HB3	2.20	0.40
1:e:134:GLN:HE22	1:h:153:ALA:HA	1.87	0.40
1:f:129:LYS:HE2	1:f:236:GLU:OE2	2.21	0.40
1:h:64:VAL:HG21	1:h:446:ILE:HD13	2.02	0.40
1:h:382:LEU:O	1:h:392:LEU:HD12	2.21	0.40
1:j:382:LEU:O	1:j:392:LEU:HD12	2.21	0.40
1:l:259:PHE:CD1	1:l:289:LYS:HD2	2.57	0.40
1:s:259:PHE:CD1	1:s:289:LYS:HD2	2.57	0.40
1:t:68:ASN:HB2	1:t:189:GLN:NE2	2.35	0.40
1:v:134:GLN:HE22	1:w:153:ALA:HA	1.87	0.40
1:v:341:SER:OG	1:v:344:LEU:O	2.39	0.40
1:x:206:ASN:ND2	1:x:324:THR:HA	2.32	0.40
1:x:382:LEU:O	1:x:392:LEU:HD12	2.21	0.40
1:x:388:THR:HG23	1:x:389:THR:H	1.85	0.40
1:y:136:LYS:NZ	1:y:149:ASN:OD1	2.50	0.40
1:3:129:LYS:HE2	1:3:236:GLU:OE2	2.21	0.40
1:3:215:GLN:HE21	1:4:491:ARG:HB2	1.87	0.40
1:4:129:LYS:HE2	1:4:236:GLU:OE2	2.21	0.40
1:8:249:GLU:OE1	1:8:536:LYS:HB3	2.20	0.40
1:A:249:GLU:H	1:A:531:LYS:HG2	1.86	0.40
1:A:491:ARG:HB2	1:G:215:GLN:HE21	1.87	0.40
1:B:259:PHE:CD1	1:B:289:LYS:HD2	2.56	0.40
1:C:259:PHE:CD1	1:C:289:LYS:HD2	2.57	0.40
1:E:98:ASN:HD22	1:E:175:ASP:CG	2.29	0.40
1:F:129:LYS:HE2	1:F:236:GLU:OE2	2.21	0.40
1:G:382:LEU:O	1:G:392:LEU:HD12	2.21	0.40
1:I:129:LYS:HE2	1:I:236:GLU:OE2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:341:SER:OG	1:J:344:LEU:O	2.39	0.40
1:K:129:LYS:HE2	1:K:236:GLU:OE2	2.21	0.40
1:M:40:THR:HG1	1:M:132:ASN:H	1.68	0.40
1:O:215:GLN:HE21	1:n:491:ARG:HB2	1.87	0.40
1:P:259:PHE:CD1	1:P:289:LYS:HD2	2.57	0.40
1:Q:382:LEU:O	1:Q:392:LEU:HD12	2.21	0.40
1:R:259:PHE:CD1	1:R:289:LYS:HD2	2.56	0.40
1:d:491:ARG:HB2	1:l:215:GLN:HE21	1.87	0.40
1:e:180:LEU:HA	1:e:181:PRO:HD3	1.93	0.40
1:f:206:ASN:HD22	1:f:209:GLU:CG	2.33	0.40
1:f:215:GLN:HE21	1:g:491:ARG:HB2	1.86	0.40
1:f:259:PHE:CD1	1:f:289:LYS:HD2	2.56	0.40
1:g:259:PHE:CD1	1:g:289:LYS:HD2	2.57	0.40
1:h:388:THR:HG23	1:h:389:THR:H	1.85	0.40
1:j:259:PHE:CD1	1:j:289:LYS:HD2	2.57	0.40
1:k:136:LYS:NZ	1:k:149:ASN:OD1	2.50	0.40
1:k:153:ALA:HA	1:w:134:GLN:HE22	1.87	0.40
1:m:266:ARG:NH1	1:n:101:GLN:HE22	2.19	0.40
1:m:388:THR:HG23	1:m:389:THR:H	1.85	0.40
1:m:401:ASN:HD21	1:n:429:ASP:C	2.30	0.40
1:s:101:GLN:HB3	1:s:176:VAL:HG11	2.03	0.40
1:t:215:GLN:HE21	1:v:491:ARG:HB2	1.87	0.40
1:t:259:PHE:CD1	1:t:289:LYS:HD2	2.56	0.40
1:t:382:LEU:O	1:t:392:LEU:HD12	2.21	0.40
1:t:491:ARG:HB2	1:u:215:GLN:HE21	1.87	0.40
1:u:388:THR:HG23	1:u:389:THR:H	1.85	0.40
1:u:491:ARG:HB2	1:v:215:GLN:HE21	1.87	0.40
1:w:101:GLN:HB3	1:w:176:VAL:HG11	2.03	0.40
1:w:266:ARG:NH1	1:x:101:GLN:HE22	2.20	0.40
1:w:388:THR:HG23	1:w:389:THR:H	1.85	0.40
1:y:129:LYS:HE2	1:y:236:GLU:OE2	2.21	0.40
1:1:259:PHE:CD1	1:1:289:LYS:HD2	2.57	0.40
1:2:259:PHE:CD1	1:2:289:LYS:HD2	2.57	0.40
1:2:341:SER:OG	1:2:344:LEU:O	2.39	0.40
1:4:249:GLU:H	1:4:531:LYS:HG2	1.86	0.40
1:5:215:GLN:HE21	1:7:491:ARG:HB2	1.87	0.40
1:5:378:ARG:HD2	1:5:378:ARG:HA	1.89	0.40
1:6:129:LYS:HE2	1:6:236:GLU:OE2	2.21	0.40
1:7:101:GLN:HB3	1:7:176:VAL:HG11	2.03	0.40
1:8:229:LEU:HA	1:8:233:GLU:OE1	2.20	0.40
1:8:259:PHE:CD1	1:8:289:LYS:HD2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:215:GLN:HE21	1:I:491:ARG:HB2	1.87	0.40
1:A:266:ARG:NH1	1:G:101:GLN:HE22	2.19	0.40
1:A:382:LEU:O	1:A:392:LEU:HD12	2.21	0.40
1:D:215:GLN:HE21	1:P:491:ARG:HB2	1.87	0.40
1:E:101:GLN:HB3	1:E:176:VAL:HG11	2.03	0.40
1:E:266:ARG:NH1	1:Q:101:GLN:HE22	2.20	0.40
1:E:488:ARG:HD2	1:P:511:HIS:CD2	2.55	0.40
1:G:249:GLU:OE1	1:G:536:LYS:HB3	2.20	0.40
1:G:491:ARG:HB2	1:I:215:GLN:HE21	1.87	0.40
1:H:129:LYS:HE2	1:H:236:GLU:OE2	2.22	0.40
1:H:153:ALA:HA	1:Z:134:GLN:HE22	1.87	0.40
1:H:378:ARG:HD2	1:H:378:ARG:HA	1.89	0.40
1:J:259:PHE:CD1	1:J:289:LYS:HD2	2.57	0.40
1:K:249:GLU:H	1:K:531:LYS:HG2	1.86	0.40
1:K:341:SER:OG	1:K:344:LEU:O	2.39	0.40
1:N:341:SER:OG	1:N:344:LEU:O	2.39	0.40
1:O:341:SER:OG	1:O:344:LEU:O	2.39	0.40
1:S:136:LYS:NZ	1:S:149:ASN:OD1	2.50	0.40
1:S:175:ASP:O	1:S:185:TRP:HH2	2.05	0.40
1:U:64:VAL:HG21	1:U:446:ILE:HD13	2.02	0.40
1:W:129:LYS:HE2	1:W:236:GLU:OE2	2.22	0.40
1:Z:153:ALA:HA	1:a:134:GLN:HE22	1.87	0.40
1:Z:259:PHE:CD1	1:Z:289:LYS:HD2	2.57	0.40
1:b:206:ASN:HD22	1:b:209:GLU:CG	2.33	0.40
1:b:259:PHE:CD1	1:b:289:LYS:HD2	2.57	0.40
1:c:259:PHE:CD1	1:c:289:LYS:HD2	2.57	0.40
1:e:259:PHE:CD1	1:e:289:LYS:HD2	2.57	0.40
1:j:491:ARG:HB2	1:k:215:GLN:HE21	1.87	0.40
1:j:511:HIS:CD2	1:w:488:ARG:HD2	2.55	0.40
1:l:341:SER:OG	1:l:344:LEU:O	2.39	0.40
1:n:208:VAL:O	1:n:212:ILE:HG12	2.22	0.40
1:o:101:GLN:HB3	1:o:176:VAL:HG11	2.03	0.40
1:q:259:PHE:CD1	1:q:289:LYS:HD2	2.57	0.40
1:q:318:VAL:CG2	1:s:381:ALA:HB3	2.52	0.40
1:r:249:GLU:H	1:r:531:LYS:HG2	1.86	0.40
1:t:101:GLN:HE22	1:v:266:ARG:NH1	2.19	0.40
1:t:249:GLU:OE1	1:t:536:LYS:HB3	2.20	0.40
1:t:388:THR:HG23	1:t:389:THR:H	1.85	0.40
1:u:129:LYS:HE2	1:u:236:GLU:OE2	2.21	0.40
1:y:64:VAL:HG21	1:y:446:ILE:HD13	2.02	0.40
1:2:136:LYS:NZ	1:2:149:ASN:OD1	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:388:THR:HG23	1:3:389:THR:H	1.85	0.40
1:4:341:SER:OG	1:4:344:LEU:O	2.39	0.40
1:5:129:LYS:HE2	1:5:236:GLU:OE2	2.21	0.40
1:6:388:THR:HG23	1:6:389:THR:H	1.85	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	2	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	3	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	4	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	5	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	6	504/506 (100%)	489 (97%)	14 (3%)	1 (0%)	44	63
1	7	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	8	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	A	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	B	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	C	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	D	504/506 (100%)	489 (97%)	14 (3%)	1 (0%)	44	63
1	E	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	F	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	G	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	H	504/506 (100%)	489 (97%)	14 (3%)	1 (0%)	44	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	I	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	J	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	K	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	L	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	M	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	N	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	O	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	P	504/506 (100%)	489 (97%)	14 (3%)	1 (0%)	44	63
1	Q	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	R	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	S	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	T	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	U	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	V	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	W	504/506 (100%)	489 (97%)	14 (3%)	1 (0%)	44	63
1	X	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	Y	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	Z	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	a	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	b	504/506 (100%)	489 (97%)	14 (3%)	1 (0%)	44	63
1	c	504/506 (100%)	491 (97%)	12 (2%)	1 (0%)	44	63
1	d	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	e	504/506 (100%)	489 (97%)	14 (3%)	1 (0%)	44	63
1	f	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	g	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	h	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	i	504/506 (100%)	489 (97%)	14 (3%)	1 (0%)	44	63
1	j	504/506 (100%)	489 (97%)	14 (3%)	1 (0%)	44	63
1	k	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	l	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	m	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	n	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	o	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	p	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	q	504/506 (100%)	489 (97%)	14 (3%)	1 (0%)	44	63
1	r	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	s	504/506 (100%)	489 (97%)	14 (3%)	1 (0%)	44	63
1	t	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	u	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	v	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	w	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	x	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	y	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
1	z	504/506 (100%)	490 (97%)	13 (3%)	1 (0%)	44	63
All	All	30240/30360 (100%)	29390 (97%)	790 (3%)	60 (0%)	45	63

All (60) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	326	VAL
1	B	326	VAL
1	C	326	VAL
1	D	326	VAL
1	E	326	VAL
1	F	326	VAL
1	G	326	VAL
1	H	326	VAL
1	I	326	VAL
1	J	326	VAL
1	K	326	VAL
1	L	326	VAL
1	M	326	VAL
1	N	326	VAL
1	O	326	VAL
1	P	326	VAL
1	Q	326	VAL
1	R	326	VAL
1	S	326	VAL

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Mol	Chain	Res	Type
1	T	326	VAL
1	U	326	VAL
1	V	326	VAL
1	W	326	VAL
1	X	326	VAL
1	Y	326	VAL
1	Z	326	VAL
1	a	326	VAL
1	b	326	VAL
1	c	326	VAL
1	d	326	VAL
1	e	326	VAL
1	f	326	VAL
1	g	326	VAL
1	h	326	VAL
1	i	326	VAL
1	j	326	VAL
1	k	326	VAL
1	l	326	VAL
1	m	326	VAL
1	n	326	VAL
1	o	326	VAL
1	p	326	VAL
1	q	326	VAL
1	r	326	VAL
1	s	326	VAL
1	t	326	VAL
1	u	326	VAL
1	v	326	VAL
1	w	326	VAL
1	x	326	VAL
1	y	326	VAL
1	z	326	VAL
1	1	326	VAL
1	2	326	VAL
1	3	326	VAL
1	4	326	VAL
1	5	326	VAL
1	6	326	VAL
1	7	326	VAL
1	8	326	VAL

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	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	2	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	3	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	4	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	5	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	6	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	7	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	8	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	A	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	B	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	C	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	D	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	E	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	F	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	G	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	H	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	I	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	J	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	K	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	L	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	M	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	N	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	O	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	P	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	Q	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	R	443/444 (100%)	442 (100%)	1 (0%)	92	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	S	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	T	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	U	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	V	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	W	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	X	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	Y	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	Z	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	a	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	b	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	c	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	d	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	e	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	f	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	g	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	h	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	i	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	j	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	k	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	l	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	m	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	n	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	o	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	p	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	q	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	r	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	s	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	t	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	u	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	v	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	w	443/444 (100%)	442 (100%)	1 (0%)	92	96

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	x	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	y	443/444 (100%)	442 (100%)	1 (0%)	92	96
1	z	443/444 (100%)	442 (100%)	1 (0%)	92	96
All	All	26580/26640 (100%)	26520 (100%)	60 (0%)	91	96

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

Mol	Chain	Res	Type
1	A	427	ILE
1	B	427	ILE
1	C	427	ILE
1	D	427	ILE
1	E	427	ILE
1	F	427	ILE
1	G	427	ILE
1	H	427	ILE
1	I	427	ILE
1	J	427	ILE
1	K	427	ILE
1	L	427	ILE
1	M	427	ILE
1	N	427	ILE
1	O	427	ILE
1	P	427	ILE
1	Q	427	ILE
1	R	427	ILE
1	S	427	ILE
1	T	427	ILE
1	U	427	ILE
1	V	427	ILE
1	W	427	ILE
1	X	427	ILE
1	Y	427	ILE
1	Z	427	ILE
1	a	427	ILE
1	b	427	ILE
1	c	427	ILE
1	d	427	ILE
1	e	427	ILE
1	f	427	ILE
1	g	427	ILE

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Mol	Chain	Res	Type
1	h	427	ILE
1	i	427	ILE
1	j	427	ILE
1	k	427	ILE
1	l	427	ILE
1	m	427	ILE
1	n	427	ILE
1	o	427	ILE
1	p	427	ILE
1	q	427	ILE
1	r	427	ILE
1	s	427	ILE
1	t	427	ILE
1	u	427	ILE
1	v	427	ILE
1	w	427	ILE
1	x	427	ILE
1	y	427	ILE
1	z	427	ILE
1	1	427	ILE
1	2	427	ILE
1	3	427	ILE
1	4	427	ILE
1	5	427	ILE
1	6	427	ILE
1	7	427	ILE
1	8	427	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1166) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	58	ASN
1	A	67	GLN
1	A	76	ASN
1	A	87	GLN
1	A	101	GLN
1	A	105	HIS
1	A	109	GLN
1	A	127	HIS
1	A	137	GLN
1	A	156	HIS
1	A	206	ASN

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Mol	Chain	Res	Type
1	A	215	GLN
1	A	274	HIS
1	A	276	ASN
1	A	285	GLN
1	A	357	GLN
1	A	371	ASN
1	A	413	ASN
1	A	507	ASN
1	A	533	ASN
1	B	58	ASN
1	B	67	GLN
1	B	76	ASN
1	B	87	GLN
1	B	101	GLN
1	B	105	HIS
1	B	109	GLN
1	B	127	HIS
1	B	137	GLN
1	B	156	HIS
1	B	206	ASN
1	B	215	GLN
1	B	274	HIS
1	B	285	GLN
1	B	357	GLN
1	B	371	ASN
1	B	413	ASN
1	B	507	ASN
1	B	533	ASN
1	C	58	ASN
1	C	61	GLN
1	C	67	GLN
1	C	76	ASN
1	C	87	GLN
1	C	101	GLN
1	C	105	HIS
1	C	109	GLN
1	C	127	HIS
1	C	137	GLN
1	C	156	HIS
1	C	206	ASN
1	C	215	GLN
1	C	274	HIS

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Mol	Chain	Res	Type
1	C	276	ASN
1	C	285	GLN
1	C	357	GLN
1	C	371	ASN
1	C	413	ASN
1	C	507	ASN
1	C	533	ASN
1	D	58	ASN
1	D	61	GLN
1	D	67	GLN
1	D	76	ASN
1	D	87	GLN
1	D	101	GLN
1	D	105	HIS
1	D	109	GLN
1	D	127	HIS
1	D	137	GLN
1	D	156	HIS
1	D	206	ASN
1	D	215	GLN
1	D	274	HIS
1	D	276	ASN
1	D	357	GLN
1	D	371	ASN
1	D	413	ASN
1	D	507	ASN
1	D	533	ASN
1	E	58	ASN
1	E	61	GLN
1	E	67	GLN
1	E	76	ASN
1	E	87	GLN
1	E	101	GLN
1	E	105	HIS
1	E	109	GLN
1	E	127	HIS
1	E	137	GLN
1	E	156	HIS
1	E	206	ASN
1	E	215	GLN
1	E	274	HIS
1	E	285	GLN

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Mol	Chain	Res	Type
1	E	357	GLN
1	E	371	ASN
1	E	413	ASN
1	E	507	ASN
1	E	533	ASN
1	F	58	ASN
1	F	67	GLN
1	F	76	ASN
1	F	87	GLN
1	F	101	GLN
1	F	105	HIS
1	F	109	GLN
1	F	127	HIS
1	F	137	GLN
1	F	156	HIS
1	F	206	ASN
1	F	215	GLN
1	F	274	HIS
1	F	357	GLN
1	F	371	ASN
1	F	413	ASN
1	F	507	ASN
1	F	533	ASN
1	G	58	ASN
1	G	61	GLN
1	G	67	GLN
1	G	76	ASN
1	G	87	GLN
1	G	101	GLN
1	G	105	HIS
1	G	109	GLN
1	G	127	HIS
1	G	137	GLN
1	G	156	HIS
1	G	189	GLN
1	G	206	ASN
1	G	215	GLN
1	G	274	HIS
1	G	276	ASN
1	G	285	GLN
1	G	357	GLN
1	G	371	ASN

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Mol	Chain	Res	Type
1	G	413	ASN
1	G	507	ASN
1	H	58	ASN
1	H	61	GLN
1	H	67	GLN
1	H	76	ASN
1	H	87	GLN
1	H	101	GLN
1	H	105	HIS
1	H	109	GLN
1	H	127	HIS
1	H	137	GLN
1	H	156	HIS
1	H	206	ASN
1	H	215	GLN
1	H	274	HIS
1	H	357	GLN
1	H	371	ASN
1	H	413	ASN
1	H	507	ASN
1	H	533	ASN
1	I	58	ASN
1	I	61	GLN
1	I	67	GLN
1	I	76	ASN
1	I	87	GLN
1	I	101	GLN
1	I	105	HIS
1	I	109	GLN
1	I	127	HIS
1	I	137	GLN
1	I	156	HIS
1	I	206	ASN
1	I	215	GLN
1	I	274	HIS
1	I	285	GLN
1	I	357	GLN
1	I	371	ASN
1	I	413	ASN
1	I	507	ASN
1	I	533	ASN
1	J	58	ASN

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Mol	Chain	Res	Type
1	J	61	GLN
1	J	67	GLN
1	J	76	ASN
1	J	87	GLN
1	J	101	GLN
1	J	105	HIS
1	J	109	GLN
1	J	127	HIS
1	J	137	GLN
1	J	156	HIS
1	J	206	ASN
1	J	215	GLN
1	J	274	HIS
1	J	276	ASN
1	J	285	GLN
1	J	357	GLN
1	J	371	ASN
1	J	413	ASN
1	J	507	ASN
1	K	58	ASN
1	K	67	GLN
1	K	76	ASN
1	K	87	GLN
1	K	101	GLN
1	K	105	HIS
1	K	109	GLN
1	K	127	HIS
1	K	137	GLN
1	K	156	HIS
1	K	206	ASN
1	K	215	GLN
1	K	274	HIS
1	K	357	GLN
1	K	371	ASN
1	K	413	ASN
1	K	507	ASN
1	K	533	ASN
1	L	58	ASN
1	L	61	GLN
1	L	67	GLN
1	L	76	ASN
1	L	87	GLN

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Mol	Chain	Res	Type
1	L	101	GLN
1	L	105	HIS
1	L	109	GLN
1	L	127	HIS
1	L	137	GLN
1	L	156	HIS
1	L	206	ASN
1	L	215	GLN
1	L	276	ASN
1	L	285	GLN
1	L	357	GLN
1	L	371	ASN
1	L	413	ASN
1	L	507	ASN
1	L	533	ASN
1	M	58	ASN
1	M	67	GLN
1	M	76	ASN
1	M	87	GLN
1	M	101	GLN
1	M	105	HIS
1	M	109	GLN
1	M	127	HIS
1	M	137	GLN
1	M	156	HIS
1	M	206	ASN
1	M	215	GLN
1	M	274	HIS
1	M	276	ASN
1	M	357	GLN
1	M	371	ASN
1	M	413	ASN
1	M	507	ASN
1	M	533	ASN
1	N	58	ASN
1	N	61	GLN
1	N	67	GLN
1	N	76	ASN
1	N	87	GLN
1	N	101	GLN
1	N	105	HIS
1	N	109	GLN

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Mol	Chain	Res	Type
1	N	127	HIS
1	N	137	GLN
1	N	156	HIS
1	N	206	ASN
1	N	215	GLN
1	N	274	HIS
1	N	276	ASN
1	N	357	GLN
1	N	371	ASN
1	N	413	ASN
1	N	507	ASN
1	O	58	ASN
1	O	67	GLN
1	O	76	ASN
1	O	87	GLN
1	O	101	GLN
1	O	105	HIS
1	O	109	GLN
1	O	127	HIS
1	O	137	GLN
1	O	156	HIS
1	O	206	ASN
1	O	215	GLN
1	O	274	HIS
1	O	357	GLN
1	O	371	ASN
1	O	413	ASN
1	O	507	ASN
1	O	533	ASN
1	P	58	ASN
1	P	67	GLN
1	P	76	ASN
1	P	87	GLN
1	P	101	GLN
1	P	105	HIS
1	P	109	GLN
1	P	127	HIS
1	P	137	GLN
1	P	156	HIS
1	P	206	ASN
1	P	215	GLN
1	P	274	HIS

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Mol	Chain	Res	Type
1	P	357	GLN
1	P	371	ASN
1	P	413	ASN
1	P	507	ASN
1	P	533	ASN
1	Q	58	ASN
1	Q	67	GLN
1	Q	76	ASN
1	Q	87	GLN
1	Q	101	GLN
1	Q	105	HIS
1	Q	109	GLN
1	Q	127	HIS
1	Q	137	GLN
1	Q	156	HIS
1	Q	206	ASN
1	Q	215	GLN
1	Q	274	HIS
1	Q	285	GLN
1	Q	357	GLN
1	Q	371	ASN
1	Q	413	ASN
1	Q	507	ASN
1	Q	533	ASN
1	R	58	ASN
1	R	67	GLN
1	R	76	ASN
1	R	87	GLN
1	R	101	GLN
1	R	105	HIS
1	R	109	GLN
1	R	127	HIS
1	R	137	GLN
1	R	156	HIS
1	R	206	ASN
1	R	215	GLN
1	R	274	HIS
1	R	276	ASN
1	R	285	GLN
1	R	371	ASN
1	R	413	ASN
1	R	507	ASN

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Mol	Chain	Res	Type
1	S	58	ASN
1	S	67	GLN
1	S	76	ASN
1	S	87	GLN
1	S	101	GLN
1	S	105	HIS
1	S	109	GLN
1	S	127	HIS
1	S	137	GLN
1	S	156	HIS
1	S	206	ASN
1	S	215	GLN
1	S	274	HIS
1	S	357	GLN
1	S	371	ASN
1	S	413	ASN
1	S	507	ASN
1	S	533	ASN
1	T	58	ASN
1	T	67	GLN
1	T	76	ASN
1	T	87	GLN
1	T	101	GLN
1	T	105	HIS
1	T	109	GLN
1	T	127	HIS
1	T	137	GLN
1	T	156	HIS
1	T	206	ASN
1	T	215	GLN
1	T	274	HIS
1	T	285	GLN
1	T	357	GLN
1	T	371	ASN
1	T	413	ASN
1	T	507	ASN
1	U	58	ASN
1	U	67	GLN
1	U	76	ASN
1	U	87	GLN
1	U	101	GLN
1	U	105	HIS

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Mol	Chain	Res	Type
1	U	109	GLN
1	U	127	HIS
1	U	137	GLN
1	U	156	HIS
1	U	206	ASN
1	U	215	GLN
1	U	274	HIS
1	U	285	GLN
1	U	357	GLN
1	U	371	ASN
1	U	413	ASN
1	U	507	ASN
1	U	533	ASN
1	V	58	ASN
1	V	61	GLN
1	V	67	GLN
1	V	76	ASN
1	V	87	GLN
1	V	101	GLN
1	V	105	HIS
1	V	109	GLN
1	V	127	HIS
1	V	137	GLN
1	V	156	HIS
1	V	189	GLN
1	V	206	ASN
1	V	215	GLN
1	V	274	HIS
1	V	357	GLN
1	V	371	ASN
1	V	413	ASN
1	V	507	ASN
1	V	533	ASN
1	W	58	ASN
1	W	61	GLN
1	W	67	GLN
1	W	76	ASN
1	W	87	GLN
1	W	101	GLN
1	W	105	HIS
1	W	109	GLN
1	W	127	HIS

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Mol	Chain	Res	Type
1	W	137	GLN
1	W	156	HIS
1	W	189	GLN
1	W	206	ASN
1	W	215	GLN
1	W	274	HIS
1	W	285	GLN
1	W	357	GLN
1	W	371	ASN
1	W	413	ASN
1	W	507	ASN
1	W	533	ASN
1	X	58	ASN
1	X	61	GLN
1	X	67	GLN
1	X	76	ASN
1	X	87	GLN
1	X	101	GLN
1	X	105	HIS
1	X	109	GLN
1	X	127	HIS
1	X	137	GLN
1	X	156	HIS
1	X	206	ASN
1	X	215	GLN
1	X	274	HIS
1	X	285	GLN
1	X	357	GLN
1	X	371	ASN
1	X	413	ASN
1	X	507	ASN
1	X	533	ASN
1	Y	58	ASN
1	Y	61	GLN
1	Y	67	GLN
1	Y	76	ASN
1	Y	87	GLN
1	Y	101	GLN
1	Y	105	HIS
1	Y	109	GLN
1	Y	127	HIS
1	Y	137	GLN

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Mol	Chain	Res	Type
1	Y	156	HIS
1	Y	206	ASN
1	Y	215	GLN
1	Y	274	HIS
1	Y	276	ASN
1	Y	357	GLN
1	Y	371	ASN
1	Y	413	ASN
1	Y	507	ASN
1	Y	533	ASN
1	Z	58	ASN
1	Z	67	GLN
1	Z	76	ASN
1	Z	87	GLN
1	Z	101	GLN
1	Z	105	HIS
1	Z	109	GLN
1	Z	127	HIS
1	Z	137	GLN
1	Z	156	HIS
1	Z	206	ASN
1	Z	215	GLN
1	Z	274	HIS
1	Z	285	GLN
1	Z	357	GLN
1	Z	371	ASN
1	Z	413	ASN
1	Z	507	ASN
1	Z	533	ASN
1	a	58	ASN
1	a	61	GLN
1	a	67	GLN
1	a	76	ASN
1	a	87	GLN
1	a	101	GLN
1	a	105	HIS
1	a	109	GLN
1	a	127	HIS
1	a	137	GLN
1	a	156	HIS
1	a	189	GLN
1	a	206	ASN

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Mol	Chain	Res	Type
1	a	215	GLN
1	a	274	HIS
1	a	285	GLN
1	a	357	GLN
1	a	371	ASN
1	a	413	ASN
1	a	507	ASN
1	a	533	ASN
1	b	58	ASN
1	b	61	GLN
1	b	67	GLN
1	b	76	ASN
1	b	87	GLN
1	b	101	GLN
1	b	105	HIS
1	b	109	GLN
1	b	127	HIS
1	b	137	GLN
1	b	156	HIS
1	b	189	GLN
1	b	206	ASN
1	b	215	GLN
1	b	274	HIS
1	b	276	ASN
1	b	285	GLN
1	b	357	GLN
1	b	371	ASN
1	b	413	ASN
1	b	507	ASN
1	b	533	ASN
1	c	58	ASN
1	c	67	GLN
1	c	76	ASN
1	c	87	GLN
1	c	101	GLN
1	c	105	HIS
1	c	109	GLN
1	c	127	HIS
1	c	137	GLN
1	c	156	HIS
1	c	206	ASN
1	c	215	GLN

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Mol	Chain	Res	Type
1	c	274	HIS
1	c	276	ASN
1	c	357	GLN
1	c	371	ASN
1	c	413	ASN
1	c	507	ASN
1	d	58	ASN
1	d	61	GLN
1	d	67	GLN
1	d	76	ASN
1	d	87	GLN
1	d	101	GLN
1	d	105	HIS
1	d	109	GLN
1	d	127	HIS
1	d	137	GLN
1	d	156	HIS
1	d	206	ASN
1	d	215	GLN
1	d	274	HIS
1	d	276	ASN
1	d	285	GLN
1	d	357	GLN
1	d	371	ASN
1	d	413	ASN
1	d	507	ASN
1	d	533	ASN
1	e	58	ASN
1	e	67	GLN
1	e	76	ASN
1	e	87	GLN
1	e	101	GLN
1	e	105	HIS
1	e	109	GLN
1	e	127	HIS
1	e	137	GLN
1	e	156	HIS
1	e	206	ASN
1	e	215	GLN
1	e	274	HIS
1	e	276	ASN
1	e	357	GLN

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Mol	Chain	Res	Type
1	e	371	ASN
1	e	413	ASN
1	e	507	ASN
1	f	58	ASN
1	f	61	GLN
1	f	67	GLN
1	f	76	ASN
1	f	87	GLN
1	f	101	GLN
1	f	105	HIS
1	f	109	GLN
1	f	127	HIS
1	f	137	GLN
1	f	156	HIS
1	f	189	GLN
1	f	206	ASN
1	f	215	GLN
1	f	274	HIS
1	f	276	ASN
1	f	285	GLN
1	f	357	GLN
1	f	371	ASN
1	f	413	ASN
1	f	507	ASN
1	f	533	ASN
1	g	58	ASN
1	g	61	GLN
1	g	67	GLN
1	g	76	ASN
1	g	87	GLN
1	g	101	GLN
1	g	105	HIS
1	g	109	GLN
1	g	127	HIS
1	g	137	GLN
1	g	156	HIS
1	g	206	ASN
1	g	215	GLN
1	g	274	HIS
1	g	276	ASN
1	g	285	GLN
1	g	357	GLN

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Mol	Chain	Res	Type
1	g	371	ASN
1	g	413	ASN
1	g	507	ASN
1	h	58	ASN
1	h	67	GLN
1	h	76	ASN
1	h	87	GLN
1	h	101	GLN
1	h	105	HIS
1	h	109	GLN
1	h	127	HIS
1	h	137	GLN
1	h	156	HIS
1	h	206	ASN
1	h	215	GLN
1	h	274	HIS
1	h	357	GLN
1	h	371	ASN
1	h	413	ASN
1	h	493	HIS
1	h	507	ASN
1	h	533	ASN
1	i	58	ASN
1	i	61	GLN
1	i	67	GLN
1	i	76	ASN
1	i	87	GLN
1	i	101	GLN
1	i	105	HIS
1	i	109	GLN
1	i	127	HIS
1	i	137	GLN
1	i	156	HIS
1	i	206	ASN
1	i	215	GLN
1	i	274	HIS
1	i	276	ASN
1	i	357	GLN
1	i	371	ASN
1	i	413	ASN
1	i	507	ASN
1	i	533	ASN

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Mol	Chain	Res	Type
1	j	58	ASN
1	j	67	GLN
1	j	76	ASN
1	j	87	GLN
1	j	101	GLN
1	j	105	HIS
1	j	109	GLN
1	j	127	HIS
1	j	137	GLN
1	j	156	HIS
1	j	206	ASN
1	j	215	GLN
1	j	274	HIS
1	j	357	GLN
1	j	371	ASN
1	j	413	ASN
1	j	507	ASN
1	j	533	ASN
1	k	58	ASN
1	k	61	GLN
1	k	67	GLN
1	k	76	ASN
1	k	87	GLN
1	k	101	GLN
1	k	105	HIS
1	k	109	GLN
1	k	127	HIS
1	k	137	GLN
1	k	156	HIS
1	k	206	ASN
1	k	215	GLN
1	k	274	HIS
1	k	357	GLN
1	k	371	ASN
1	k	413	ASN
1	k	507	ASN
1	k	533	ASN
1	l	58	ASN
1	l	67	GLN
1	l	76	ASN
1	l	87	GLN
1	l	101	GLN

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Mol	Chain	Res	Type
1	l	105	HIS
1	l	109	GLN
1	l	127	HIS
1	l	137	GLN
1	l	156	HIS
1	l	206	ASN
1	l	215	GLN
1	l	274	HIS
1	l	285	GLN
1	l	357	GLN
1	l	371	ASN
1	l	413	ASN
1	l	507	ASN
1	l	533	ASN
1	m	58	ASN
1	m	67	GLN
1	m	76	ASN
1	m	87	GLN
1	m	101	GLN
1	m	105	HIS
1	m	109	GLN
1	m	127	HIS
1	m	137	GLN
1	m	156	HIS
1	m	206	ASN
1	m	215	GLN
1	m	274	HIS
1	m	285	GLN
1	m	357	GLN
1	m	371	ASN
1	m	413	ASN
1	m	507	ASN
1	n	58	ASN
1	n	61	GLN
1	n	67	GLN
1	n	76	ASN
1	n	87	GLN
1	n	101	GLN
1	n	105	HIS
1	n	109	GLN
1	n	127	HIS
1	n	137	GLN

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Mol	Chain	Res	Type
1	n	156	HIS
1	n	206	ASN
1	n	215	GLN
1	n	274	HIS
1	n	276	ASN
1	n	357	GLN
1	n	371	ASN
1	n	413	ASN
1	n	507	ASN
1	o	58	ASN
1	o	67	GLN
1	o	76	ASN
1	o	87	GLN
1	o	101	GLN
1	o	105	HIS
1	o	109	GLN
1	o	127	HIS
1	o	137	GLN
1	o	156	HIS
1	o	189	GLN
1	o	206	ASN
1	o	215	GLN
1	o	274	HIS
1	o	285	GLN
1	o	357	GLN
1	o	371	ASN
1	o	413	ASN
1	o	507	ASN
1	o	533	ASN
1	p	58	ASN
1	p	67	GLN
1	p	76	ASN
1	p	87	GLN
1	p	101	GLN
1	p	105	HIS
1	p	109	GLN
1	p	127	HIS
1	p	137	GLN
1	p	156	HIS
1	p	189	GLN
1	p	206	ASN
1	p	215	GLN

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Mol	Chain	Res	Type
1	p	274	HIS
1	p	357	GLN
1	p	371	ASN
1	p	413	ASN
1	p	507	ASN
1	p	533	ASN
1	q	58	ASN
1	q	67	GLN
1	q	76	ASN
1	q	87	GLN
1	q	101	GLN
1	q	105	HIS
1	q	109	GLN
1	q	127	HIS
1	q	137	GLN
1	q	156	HIS
1	q	206	ASN
1	q	215	GLN
1	q	274	HIS
1	q	276	ASN
1	q	285	GLN
1	q	371	ASN
1	q	413	ASN
1	q	507	ASN
1	r	58	ASN
1	r	67	GLN
1	r	76	ASN
1	r	87	GLN
1	r	101	GLN
1	r	105	HIS
1	r	109	GLN
1	r	127	HIS
1	r	137	GLN
1	r	156	HIS
1	r	206	ASN
1	r	215	GLN
1	r	274	HIS
1	r	357	GLN
1	r	371	ASN
1	r	413	ASN
1	r	507	ASN
1	r	533	ASN

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Mol	Chain	Res	Type
1	s	58	ASN
1	s	67	GLN
1	s	76	ASN
1	s	87	GLN
1	s	101	GLN
1	s	105	HIS
1	s	109	GLN
1	s	127	HIS
1	s	137	GLN
1	s	156	HIS
1	s	206	ASN
1	s	215	GLN
1	s	274	HIS
1	s	285	GLN
1	s	357	GLN
1	s	371	ASN
1	s	413	ASN
1	s	507	ASN
1	s	533	ASN
1	t	58	ASN
1	t	61	GLN
1	t	67	GLN
1	t	76	ASN
1	t	87	GLN
1	t	101	GLN
1	t	105	HIS
1	t	109	GLN
1	t	127	HIS
1	t	137	GLN
1	t	156	HIS
1	t	189	GLN
1	t	206	ASN
1	t	215	GLN
1	t	274	HIS
1	t	276	ASN
1	t	285	GLN
1	t	357	GLN
1	t	371	ASN
1	t	413	ASN
1	t	507	ASN
1	u	58	ASN
1	u	61	GLN

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Mol	Chain	Res	Type
1	u	67	GLN
1	u	76	ASN
1	u	87	GLN
1	u	101	GLN
1	u	105	HIS
1	u	109	GLN
1	u	127	HIS
1	u	137	GLN
1	u	156	HIS
1	u	206	ASN
1	u	215	GLN
1	u	274	HIS
1	u	285	GLN
1	u	357	GLN
1	u	371	ASN
1	u	413	ASN
1	u	507	ASN
1	u	533	ASN
1	v	58	ASN
1	v	67	GLN
1	v	76	ASN
1	v	87	GLN
1	v	101	GLN
1	v	105	HIS
1	v	109	GLN
1	v	127	HIS
1	v	137	GLN
1	v	156	HIS
1	v	206	ASN
1	v	215	GLN
1	v	274	HIS
1	v	276	ASN
1	v	357	GLN
1	v	371	ASN
1	v	413	ASN
1	v	507	ASN
1	v	533	ASN
1	w	58	ASN
1	w	61	GLN
1	w	67	GLN
1	w	76	ASN
1	w	87	GLN

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Mol	Chain	Res	Type
1	w	101	GLN
1	w	105	HIS
1	w	109	GLN
1	w	127	HIS
1	w	137	GLN
1	w	156	HIS
1	w	206	ASN
1	w	215	GLN
1	w	274	HIS
1	w	276	ASN
1	w	285	GLN
1	w	357	GLN
1	w	371	ASN
1	w	413	ASN
1	w	507	ASN
1	w	533	ASN
1	x	58	ASN
1	x	67	GLN
1	x	76	ASN
1	x	87	GLN
1	x	101	GLN
1	x	105	HIS
1	x	109	GLN
1	x	127	HIS
1	x	137	GLN
1	x	156	HIS
1	x	206	ASN
1	x	215	GLN
1	x	274	HIS
1	x	285	GLN
1	x	357	GLN
1	x	371	ASN
1	x	413	ASN
1	x	507	ASN
1	x	533	ASN
1	y	58	ASN
1	y	61	GLN
1	y	67	GLN
1	y	76	ASN
1	y	87	GLN
1	y	101	GLN
1	y	105	HIS

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Mol	Chain	Res	Type
1	y	109	GLN
1	y	127	HIS
1	y	137	GLN
1	y	156	HIS
1	y	206	ASN
1	y	215	GLN
1	y	274	HIS
1	y	357	GLN
1	y	371	ASN
1	y	413	ASN
1	y	507	ASN
1	y	533	ASN
1	z	58	ASN
1	z	61	GLN
1	z	67	GLN
1	z	76	ASN
1	z	87	GLN
1	z	101	GLN
1	z	105	HIS
1	z	109	GLN
1	z	127	HIS
1	z	137	GLN
1	z	156	HIS
1	z	206	ASN
1	z	215	GLN
1	z	274	HIS
1	z	276	ASN
1	z	285	GLN
1	z	357	GLN
1	z	371	ASN
1	z	413	ASN
1	z	507	ASN
1	z	533	ASN
1	1	58	ASN
1	1	61	GLN
1	1	67	GLN
1	1	76	ASN
1	1	87	GLN
1	1	101	GLN
1	1	105	HIS
1	1	109	GLN
1	1	127	HIS

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Mol	Chain	Res	Type
1	1	137	GLN
1	1	156	HIS
1	1	206	ASN
1	1	215	GLN
1	1	274	HIS
1	1	285	GLN
1	1	357	GLN
1	1	371	ASN
1	1	413	ASN
1	1	507	ASN
1	1	533	ASN
1	2	58	ASN
1	2	61	GLN
1	2	67	GLN
1	2	76	ASN
1	2	87	GLN
1	2	101	GLN
1	2	105	HIS
1	2	109	GLN
1	2	127	HIS
1	2	137	GLN
1	2	156	HIS
1	2	206	ASN
1	2	215	GLN
1	2	274	HIS
1	2	276	ASN
1	2	285	GLN
1	2	357	GLN
1	2	371	ASN
1	2	413	ASN
1	2	507	ASN
1	3	58	ASN
1	3	61	GLN
1	3	67	GLN
1	3	76	ASN
1	3	87	GLN
1	3	101	GLN
1	3	105	HIS
1	3	109	GLN
1	3	127	HIS
1	3	137	GLN
1	3	156	HIS

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Mol	Chain	Res	Type
1	3	189	GLN
1	3	206	ASN
1	3	215	GLN
1	3	274	HIS
1	3	285	GLN
1	3	357	GLN
1	3	371	ASN
1	3	413	ASN
1	3	507	ASN
1	3	533	ASN
1	4	58	ASN
1	4	67	GLN
1	4	76	ASN
1	4	87	GLN
1	4	101	GLN
1	4	105	HIS
1	4	109	GLN
1	4	127	HIS
1	4	137	GLN
1	4	156	HIS
1	4	206	ASN
1	4	215	GLN
1	4	274	HIS
1	4	357	GLN
1	4	371	ASN
1	4	413	ASN
1	4	507	ASN
1	4	533	ASN
1	5	58	ASN
1	5	67	GLN
1	5	76	ASN
1	5	87	GLN
1	5	101	GLN
1	5	105	HIS
1	5	109	GLN
1	5	127	HIS
1	5	137	GLN
1	5	156	HIS
1	5	206	ASN
1	5	215	GLN
1	5	274	HIS
1	5	357	GLN

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Mol	Chain	Res	Type
1	5	371	ASN
1	5	413	ASN
1	5	507	ASN
1	5	533	ASN
1	6	58	ASN
1	6	61	GLN
1	6	67	GLN
1	6	76	ASN
1	6	87	GLN
1	6	101	GLN
1	6	105	HIS
1	6	109	GLN
1	6	127	HIS
1	6	137	GLN
1	6	156	HIS
1	6	189	GLN
1	6	206	ASN
1	6	215	GLN
1	6	274	HIS
1	6	285	GLN
1	6	357	GLN
1	6	371	ASN
1	6	413	ASN
1	6	507	ASN
1	6	533	ASN
1	7	58	ASN
1	7	61	GLN
1	7	67	GLN
1	7	76	ASN
1	7	87	GLN
1	7	101	GLN
1	7	105	HIS
1	7	109	GLN
1	7	127	HIS
1	7	137	GLN
1	7	156	HIS
1	7	206	ASN
1	7	215	GLN
1	7	274	HIS
1	7	276	ASN
1	7	285	GLN
1	7	371	ASN

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Mol	Chain	Res	Type
1	7	413	ASN
1	7	507	ASN
1	7	533	ASN
1	8	58	ASN
1	8	67	GLN
1	8	76	ASN
1	8	87	GLN
1	8	101	GLN
1	8	105	HIS
1	8	109	GLN
1	8	127	HIS
1	8	137	GLN
1	8	156	HIS
1	8	206	ASN
1	8	215	GLN
1	8	274	HIS
1	8	357	GLN
1	8	371	ASN
1	8	413	ASN
1	8	507	ASN
1	8	533	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

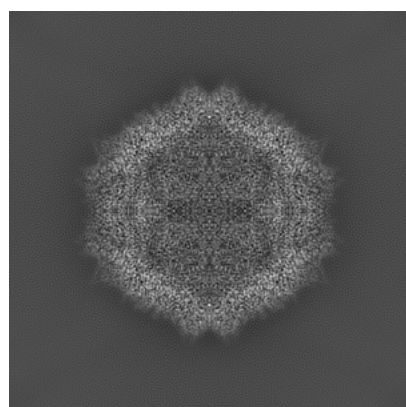
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-23104. These allow visual inspection of the internal detail of the map and identification of artifacts.

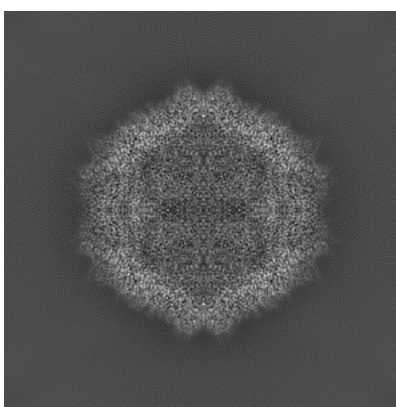
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

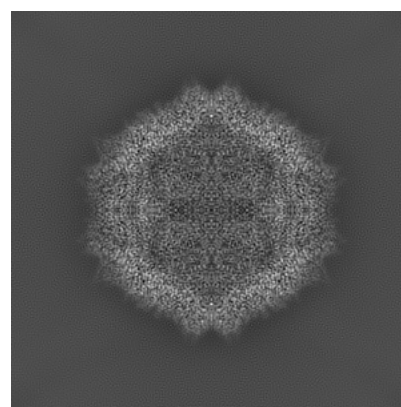
6.1.1 Primary map



X



Y

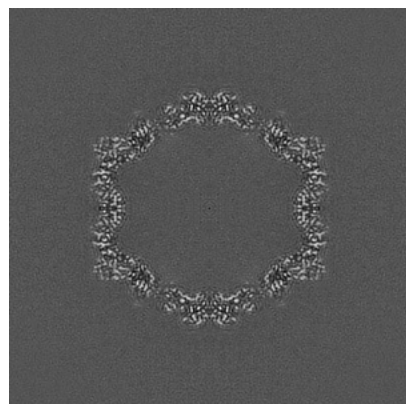


Z

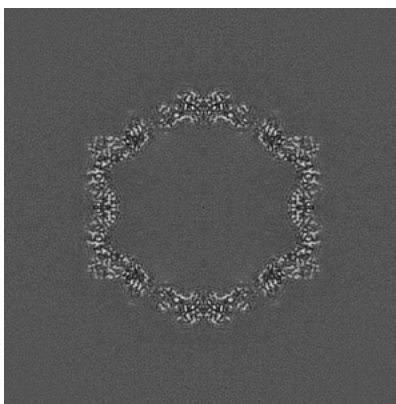
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

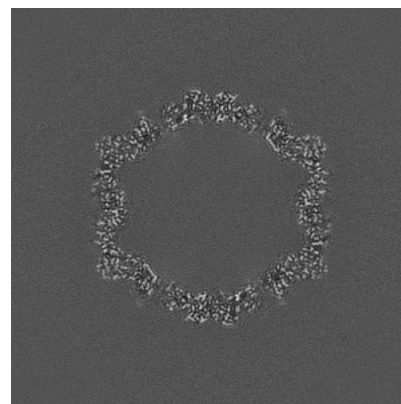
6.2.1 Primary map



X Index: 225



Y Index: 225

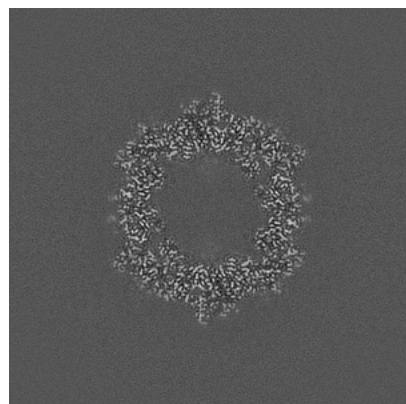


Z Index: 225

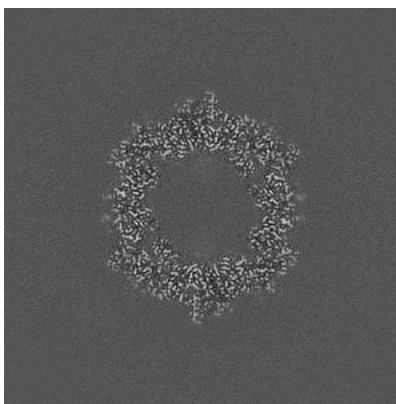
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

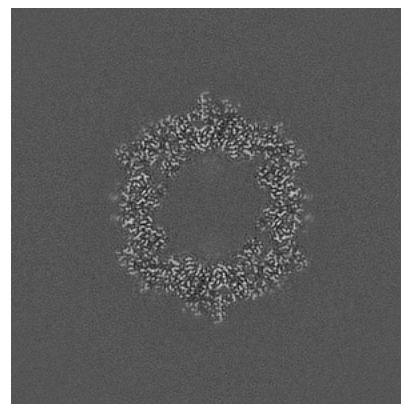
6.3.1 Primary map



X Index: 299



Y Index: 299

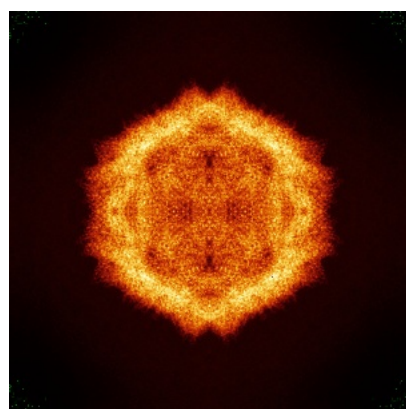


Z Index: 150

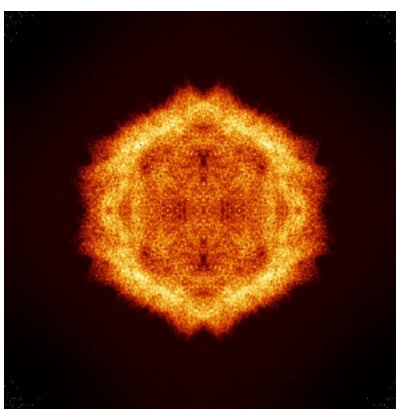
The images above show the largest variance slices of the map in three orthogonal directions.

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

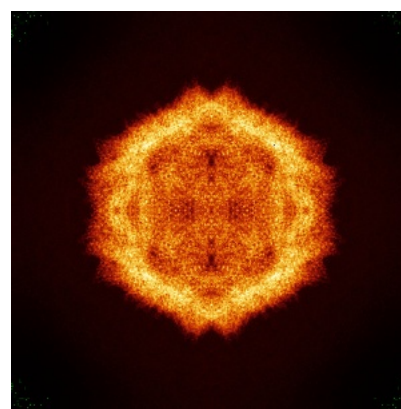
6.4.1 Primary map



X



Y

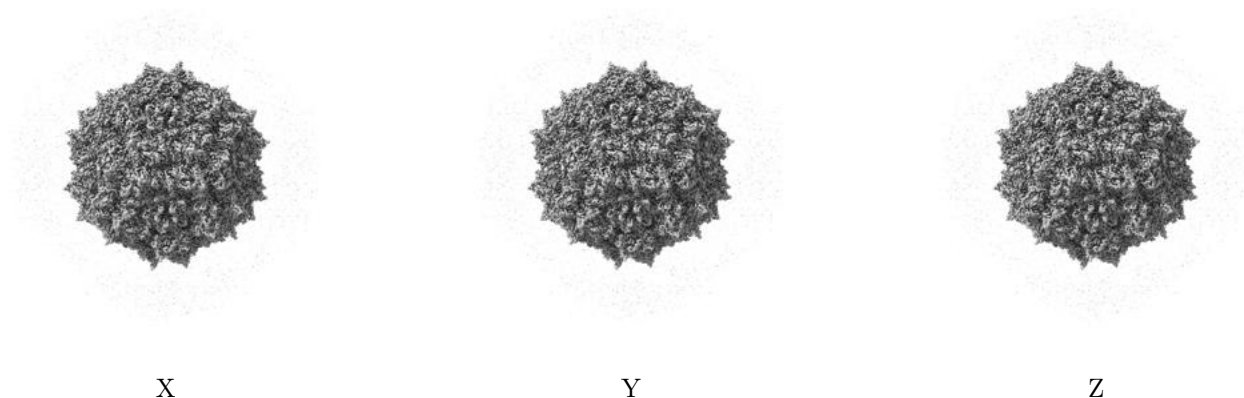


Z

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.

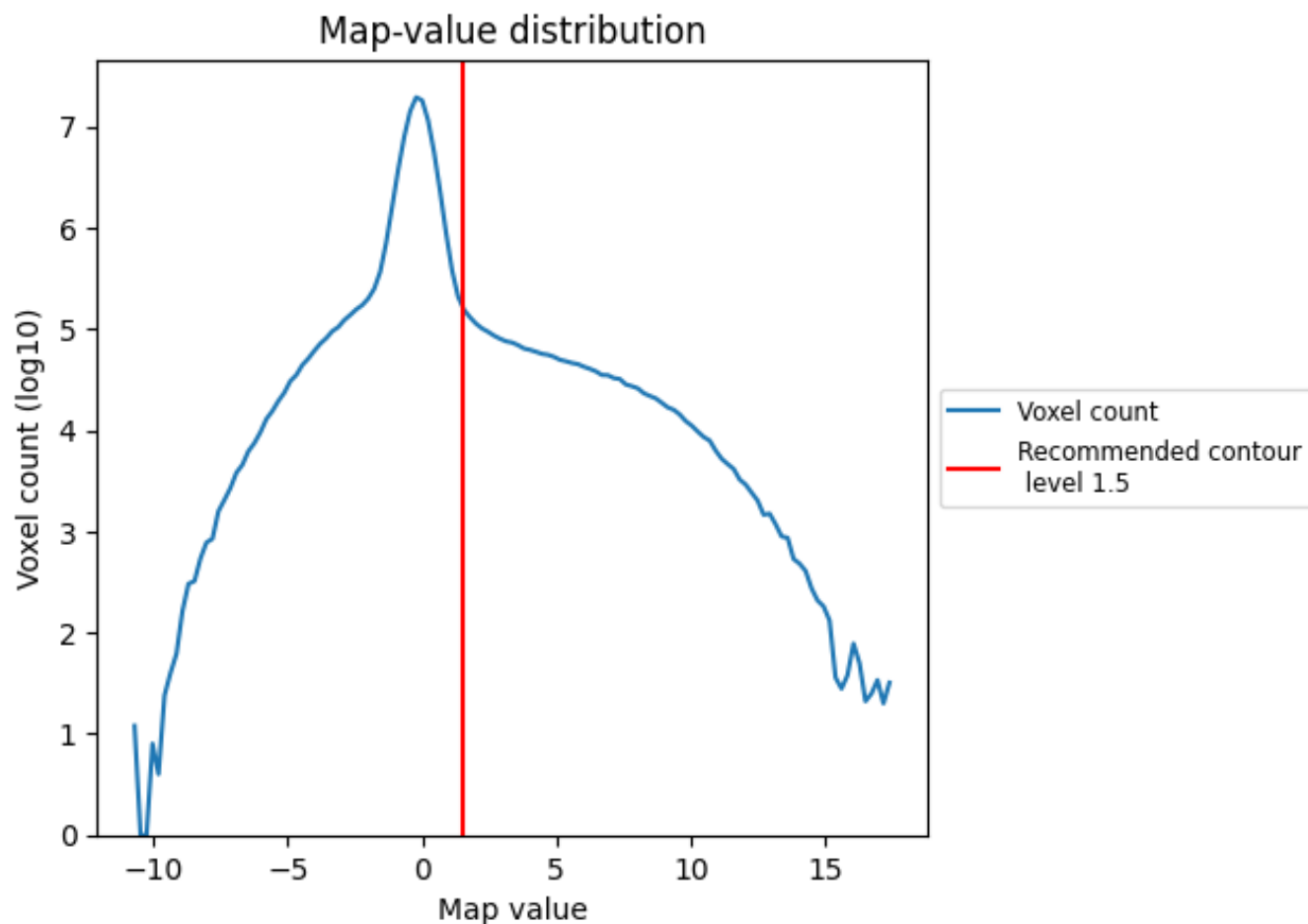
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

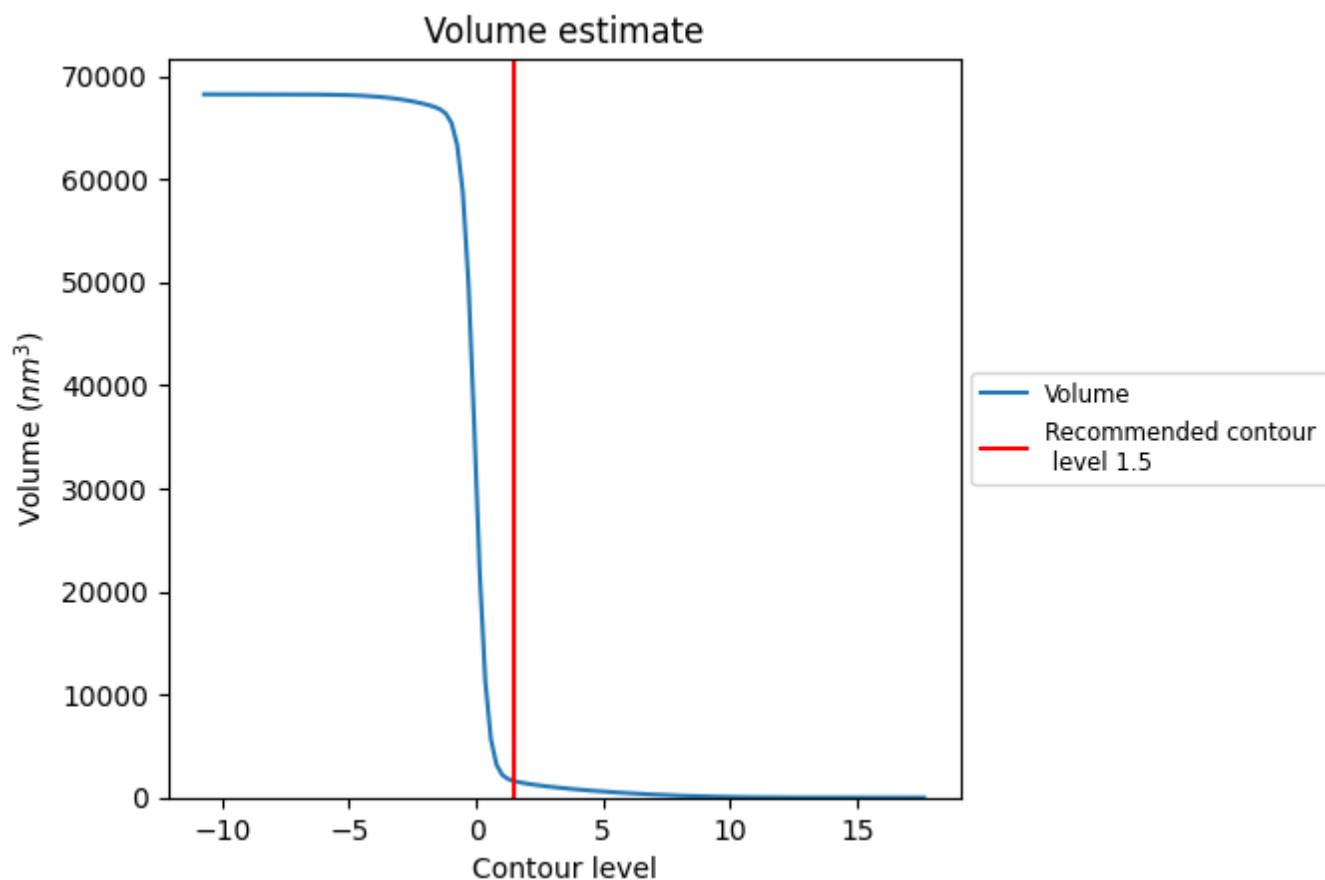
This section contains the results of statistical analysis of the map.

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.

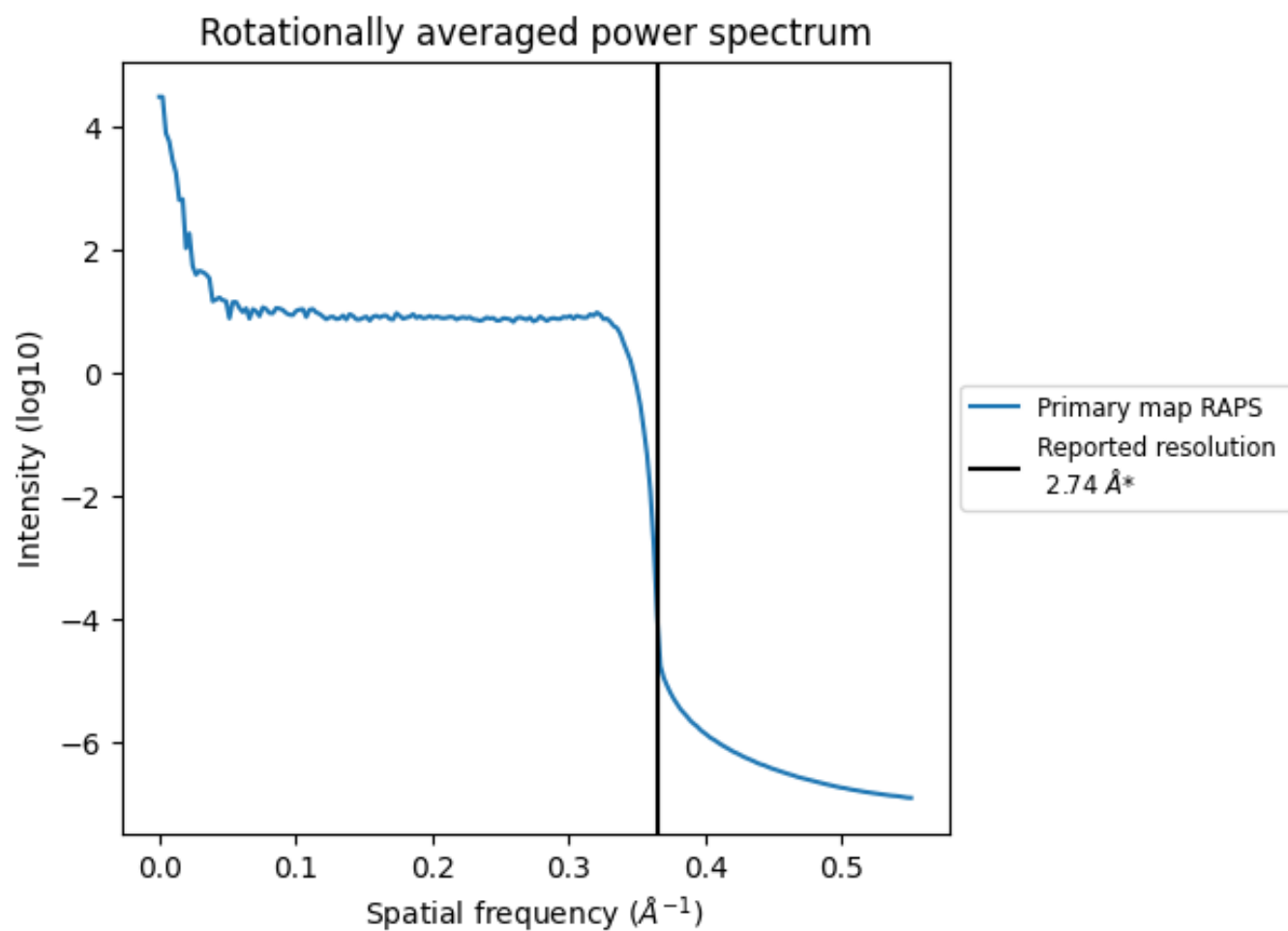
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1600 nm³; this corresponds to an approximate mass of 1445 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

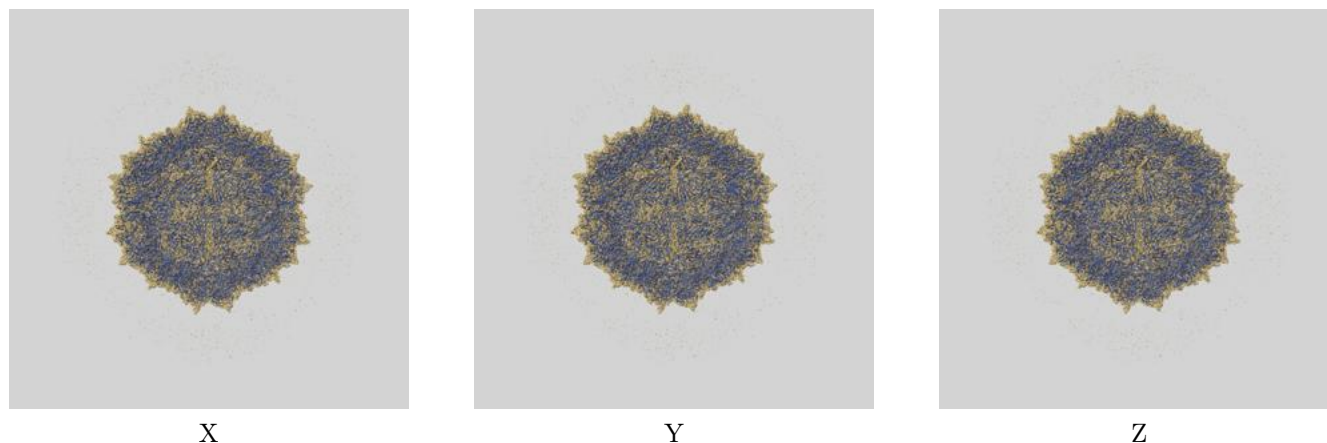
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

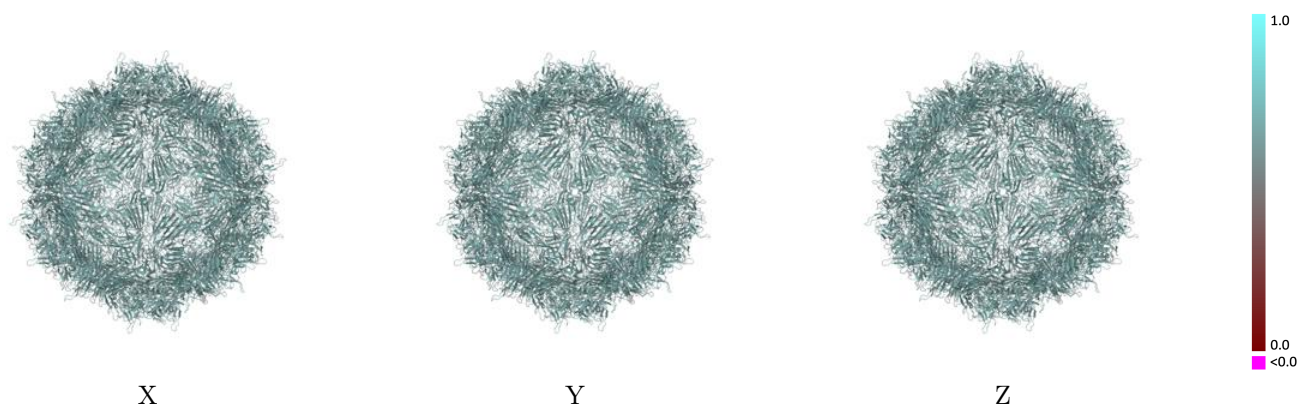
This section contains information regarding the fit between EMDB map EMD-23104 and PDB model 7L0U. Per-residue inclusion information can be found in section [3](#) on page [10](#).

9.1 Map-model overlay [i](#)



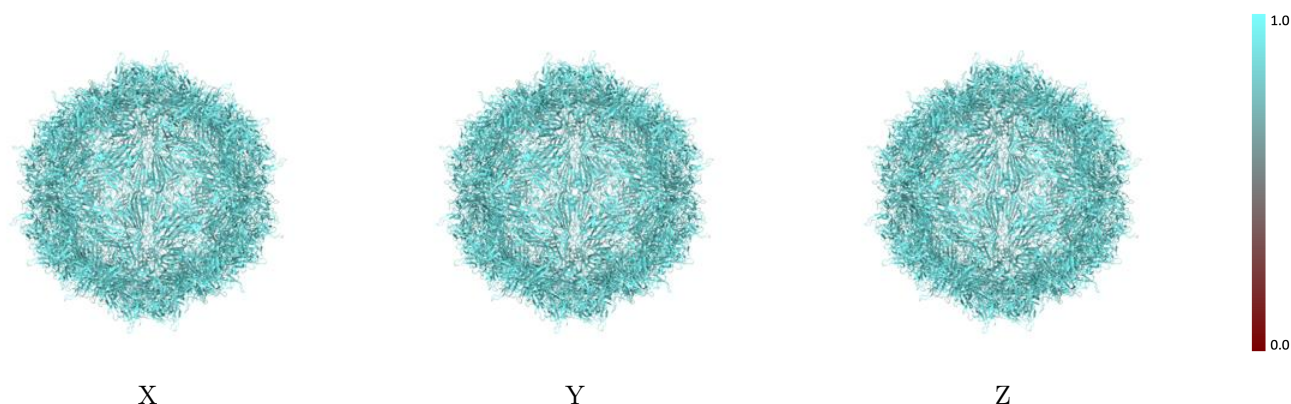
The images above show the 3D surface view of the map at the recommended contour level 1.5 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



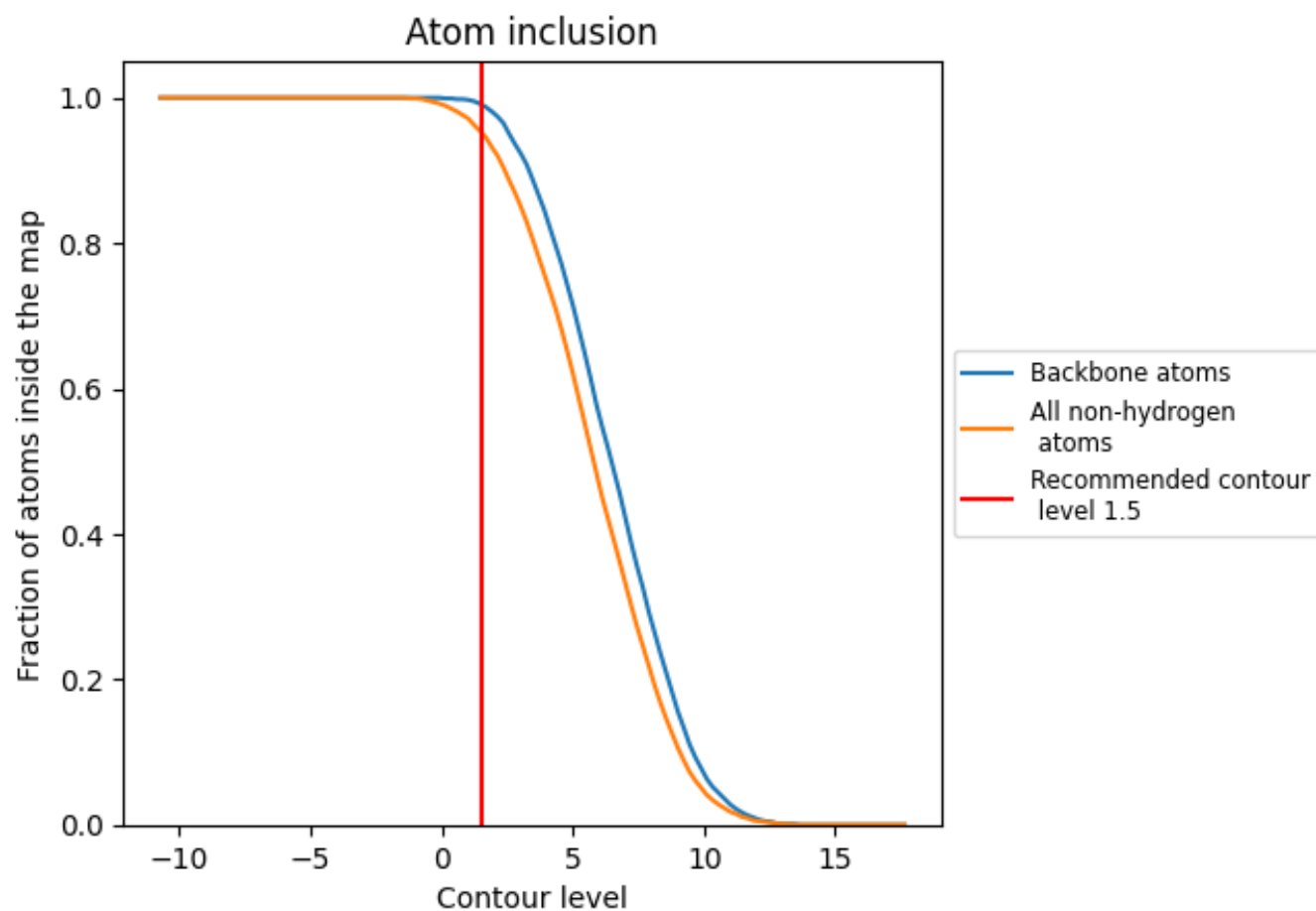
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

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



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

9.4 Atom inclusion [i](#)



At the recommended contour level, 99% of all backbone atoms, 95% 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	 0.9530	 0.6320
1	 0.9530	 0.6320
2	 0.9530	 0.6320
3	 0.9530	 0.6320
4	 0.9530	 0.6310
5	 0.9540	 0.6320
6	 0.9540	 0.6310
7	 0.9540	 0.6320
8	 0.9530	 0.6320
A	 0.9530	 0.6320
B	 0.9520	 0.6320
C	 0.9530	 0.6310
D	 0.9540	 0.6300
E	 0.9530	 0.6310
F	 0.9530	 0.6310
G	 0.9530	 0.6310
H	 0.9540	 0.6310
I	 0.9530	 0.6320
J	 0.9530	 0.6320
K	 0.9530	 0.6320
L	 0.9530	 0.6310
M	 0.9530	 0.6330
N	 0.9540	 0.6320
O	 0.9530	 0.6320
P	 0.9540	 0.6320
Q	 0.9530	 0.6320
R	 0.9520	 0.6320
S	 0.9530	 0.6320
T	 0.9530	 0.6320
U	 0.9530	 0.6320
V	 0.9530	 0.6320
W	 0.9540	 0.6310
X	 0.9530	 0.6310
Y	 0.9540	 0.6320
Z	 0.9530	 0.6320



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Chain	Atom inclusion	Q-score
a	 0.9530	 0.6320
b	 0.9530	 0.6320
c	 0.9520	 0.6320
d	 0.9530	 0.6320
e	 0.9530	 0.6320
f	 0.9530	 0.6320
g	 0.9530	 0.6310
h	 0.9530	 0.6320
i	 0.9540	 0.6320
j	 0.9540	 0.6310
k	 0.9540	 0.6310
l	 0.9530	 0.6310
m	 0.9530	 0.6330
n	 0.9530	 0.6320
o	 0.9530	 0.6320
p	 0.9530	 0.6310
q	 0.9530	 0.6310
r	 0.9530	 0.6320
s	 0.9530	 0.6320
t	 0.9530	 0.6310
u	 0.9530	 0.6320
v	 0.9530	 0.6310
w	 0.9530	 0.6310
x	 0.9530	 0.6310
y	 0.9530	 0.6310
z	 0.9530	 0.6320