Full wwPDB EM Validation Report

May 14, 2025 – 07:11 AM EDT

PDB ID	:	7L0V / pdb_00007l0v
EMDB ID	:	EMD-23105
Title	:	Human Bocavirus 2 (pH 7.4)
Authors	:	Luo, M.; Mietzsch, M.; Agbandje-McKenna, M.
Deposited on	:	2020-12-13
Resolution	:	2.71 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 (i) 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 (i)) were used in the production of this report:

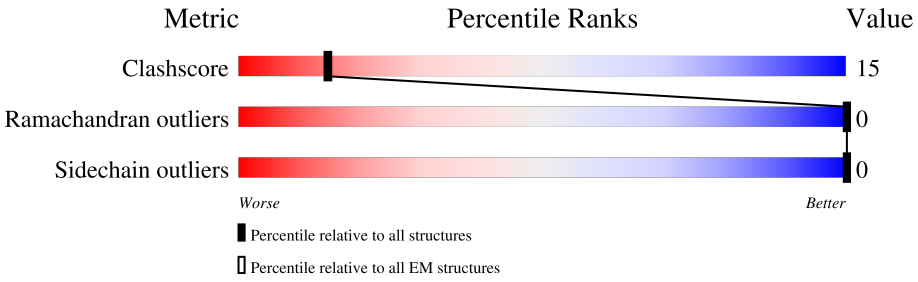
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline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

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 2.71 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 <=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	67% 32%
1	2	506	67% 32%
1	3	506	67% 32%
1	4	506	67% 33%
1	5	506	67% 33%
1	6	506	67% 33%
1	7	506	67% 32%
1	8	506	67% 32%

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Mol	Chain	Length	Quality of chain
1	A	506	67% 33%
1	B	506	67% 32%
1	C	506	66% 34%
1	D	506	68% 32%
1	E	506	67% 32%
1	F	506	67% 32%
1	G	506	67% 33%
1	H	506	67% 33%
1	I	506	68% 32%
1	J	506	67% 32%
1	K	506	67% 33%
1	L	506	67% 33%
1	M	506	67% 33%
1	N	506	67% 33%
1	O	506	67% 33%
1	P	506	67% 33%
1	Q	506	67% 32%
1	R	506	67% 33%
1	S	506	67% 32%
1	T	506	68% 32%
1	U	506	67% 32%
1	V	506	67% 32%
1	W	506	67% 32%
1	X	506	67% 32%
1	Y	506	67% 32%

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Mol	Chain	Length	Quality of chain
1	Z	506	67% 32%
1	a	506	67% 32%
1	b	506	67% 33%
1	c	506	68% 32%
1	d	506	68% 31%
1	e	506	67% 32%
1	f	506	67% 33%
1	g	506	67% 33%
1	h	506	67% 33%
1	i	506	67% 33%
1	j	506	67% 32%
1	k	506	67% 32%
1	l	506	68% 32%
1	m	506	68% 32%
1	n	506	68% 32%
1	o	506	67% 32%
1	p	506	68% 32%
1	q	506	67% 32%
1	r	506	67% 32%
1	s	506	67% 33%
1	t	506	67% 32%
1	u	506	67% 32%
1	v	506	67% 33%
1	w	506	67% 32%
1	x	506	68% 32%

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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 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
1	M	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	N	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	O	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	P	506	Total 4054	C 2571	N 697	O 765	S 21	0	0
1	Q	506	Total 4054	C 2571	N 697	O 765	S 21	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
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	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		

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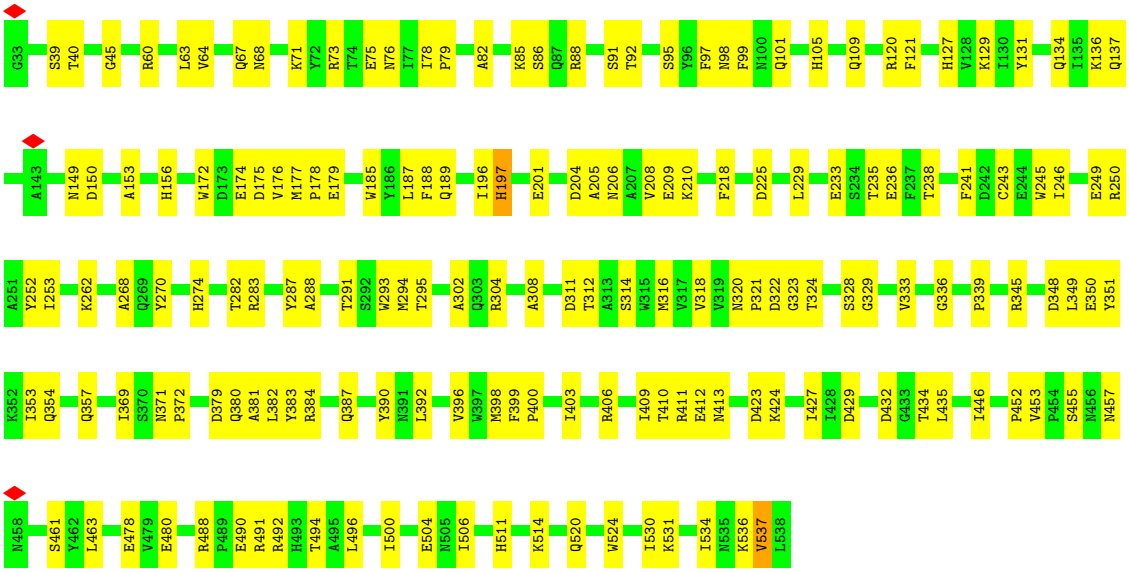
Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	506	Total	C	N	O	S	0	0
			4054	2571	697	765	21		

3 Residue-property plots (i)

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.

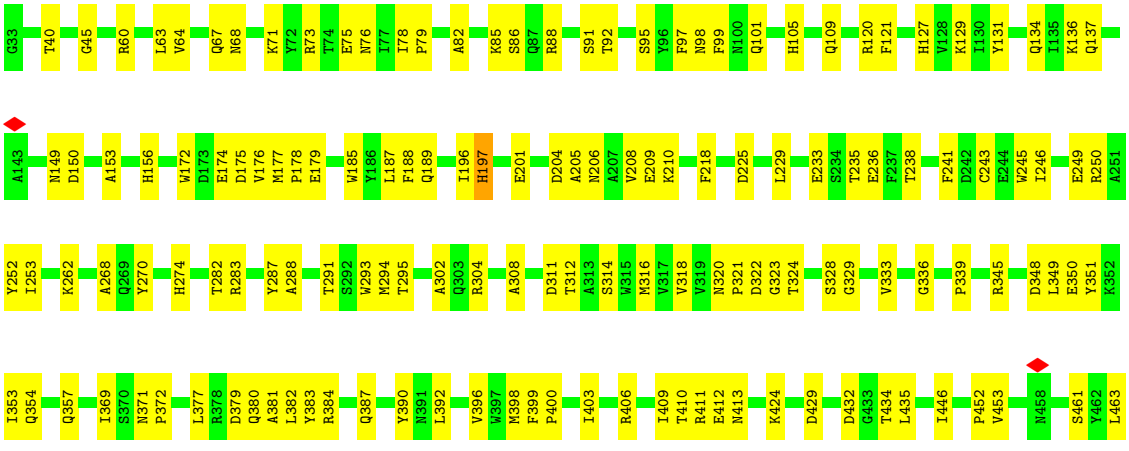
• Molecule 1: VP2

Chain A:



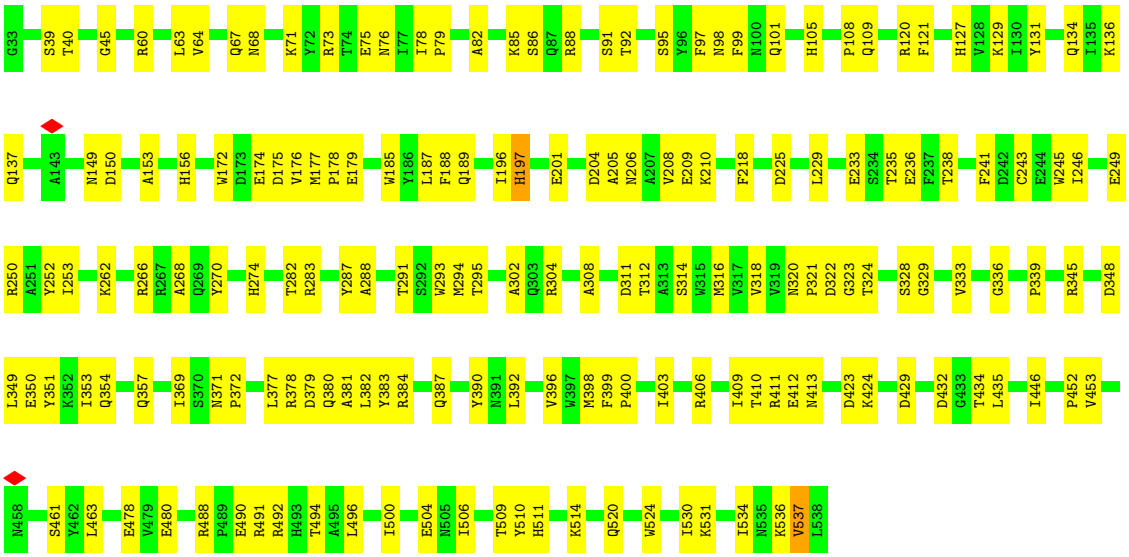
• Molecule 1: VP2

Chain B:



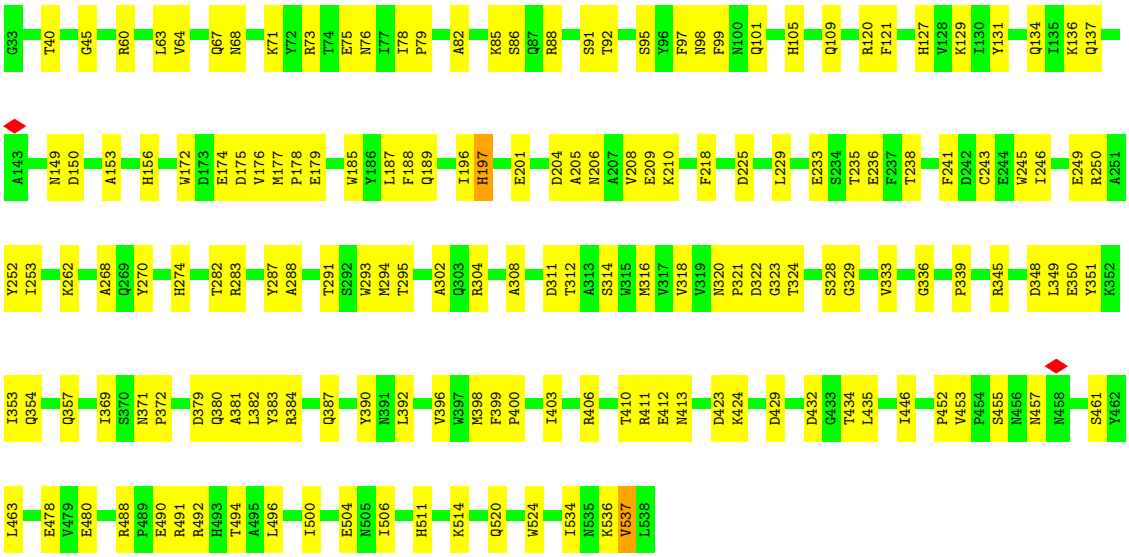
• Molecule 1: VP2

Chain C:



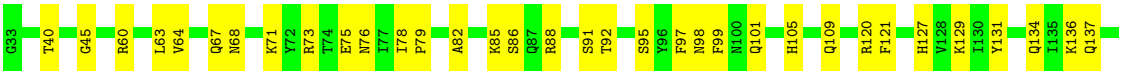
• Molecule 1: VP2

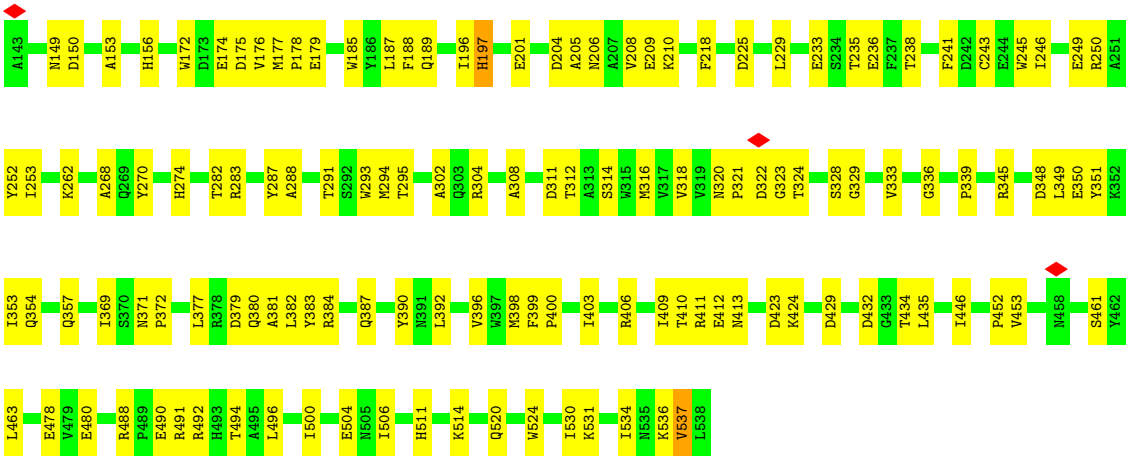
Chain D:



• Molecule 1: VP2

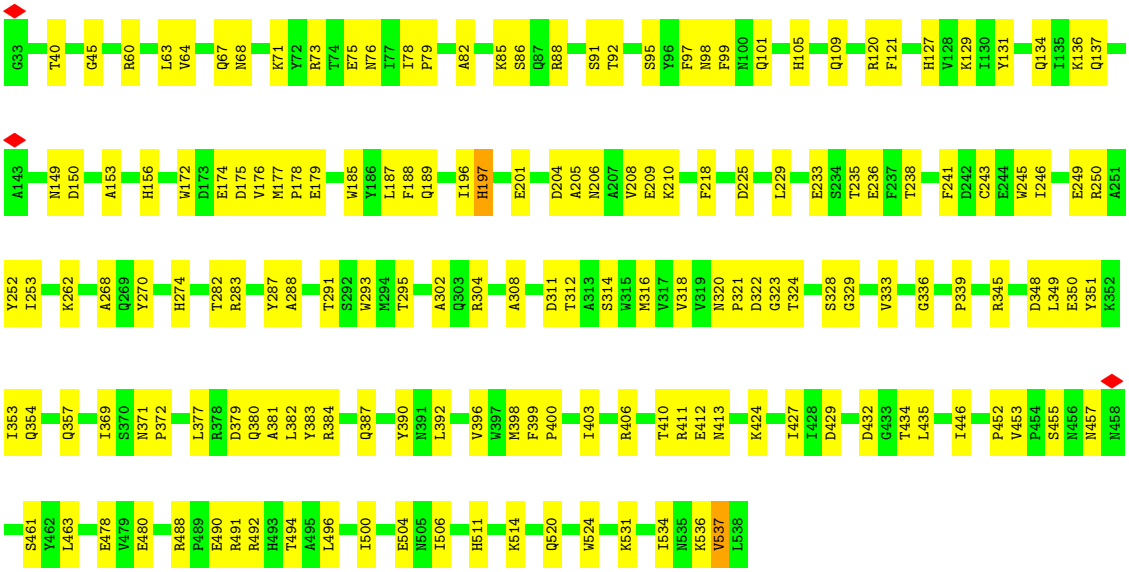
Chain E:





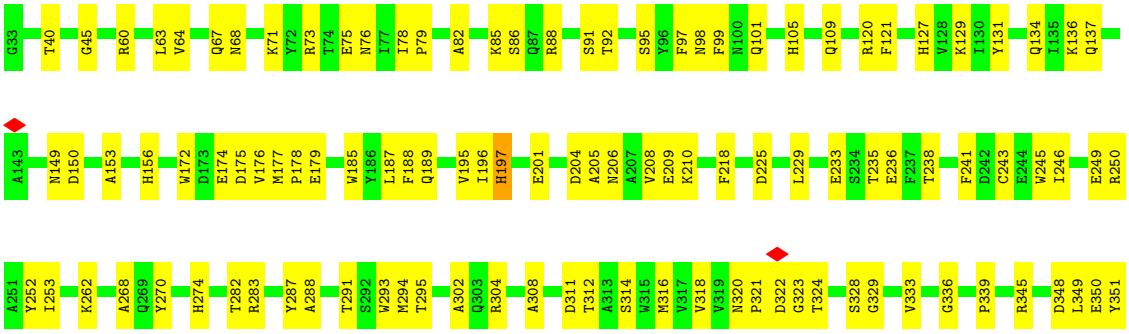
• Molecule 1: VP2

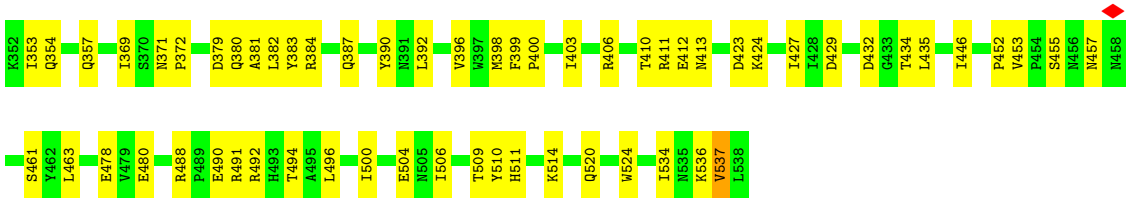
Chain F:



• Molecule 1: VP2

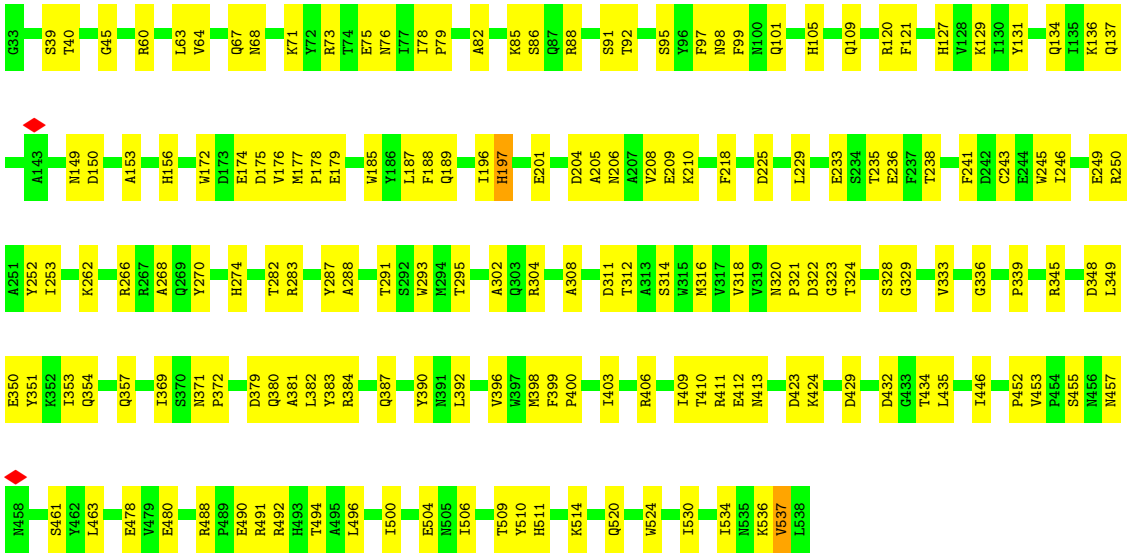
Chain G:





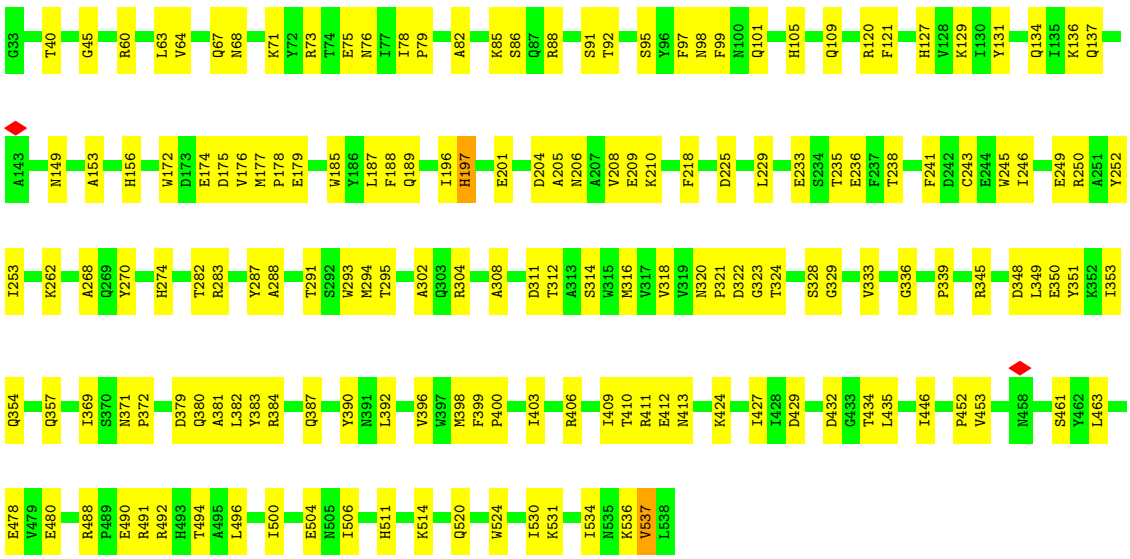
• Molecule 1: VP2

Chain H:



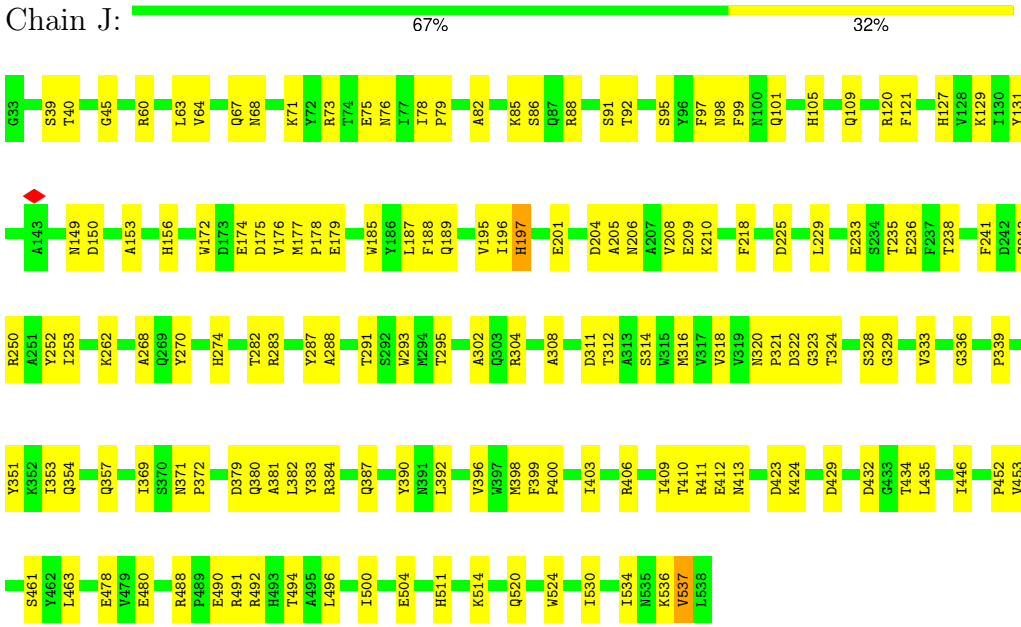
• Molecule 1: VP2

Chain I:



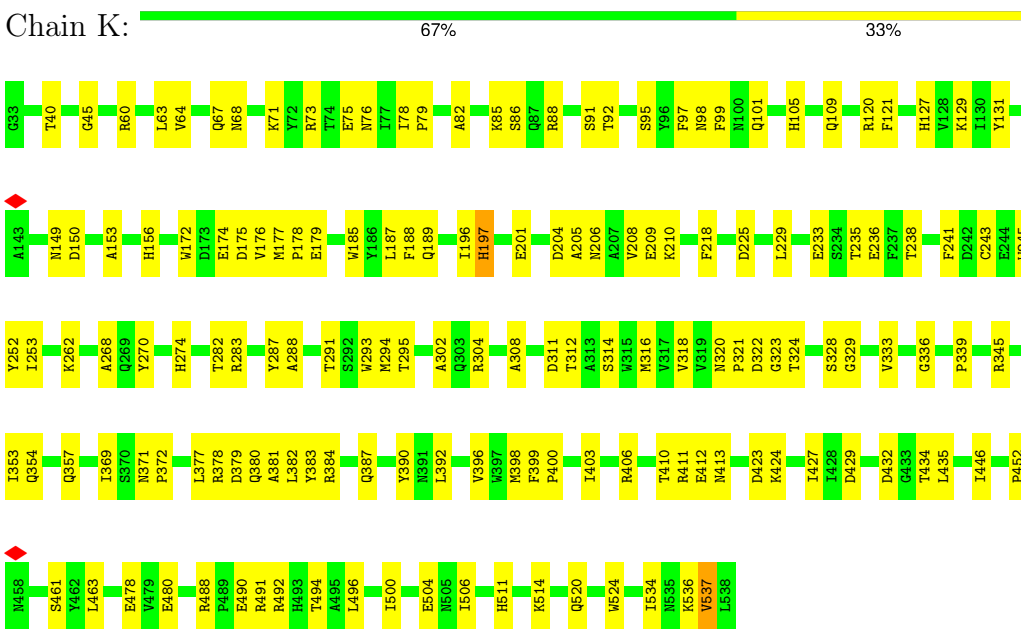
• Molecule 1: VP2

Chain J:



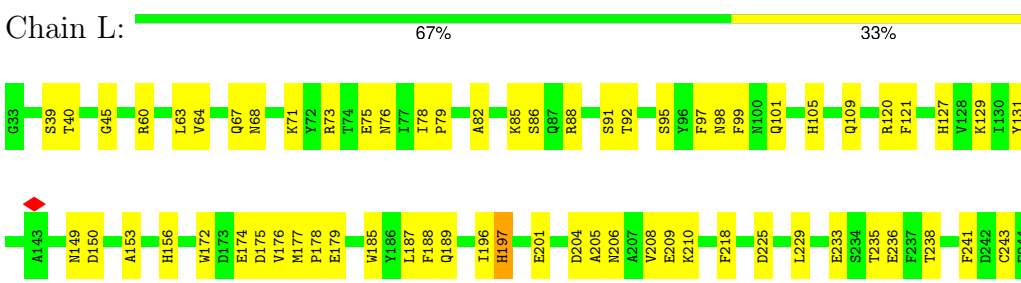
• Molecule 1: VP2

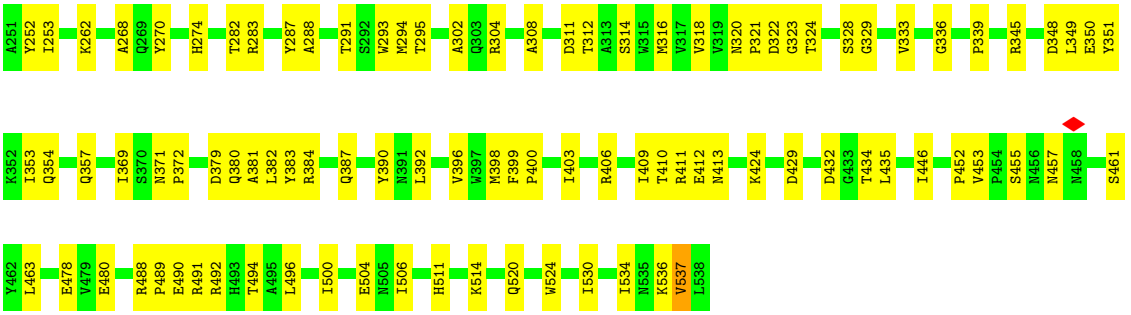
Chain K:



• Molecule 1: VP2

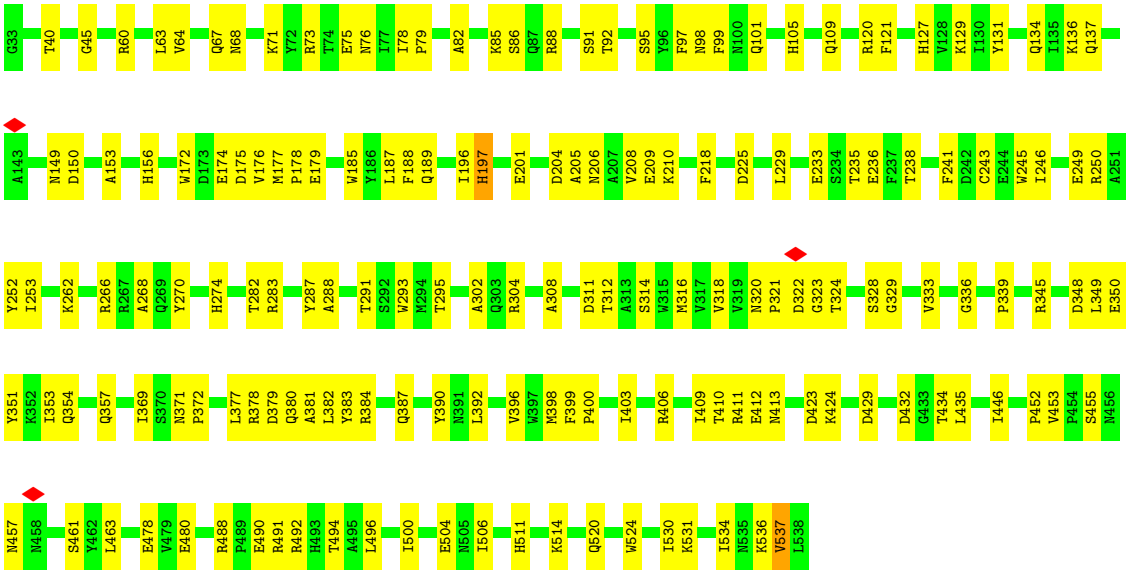
Chain L:





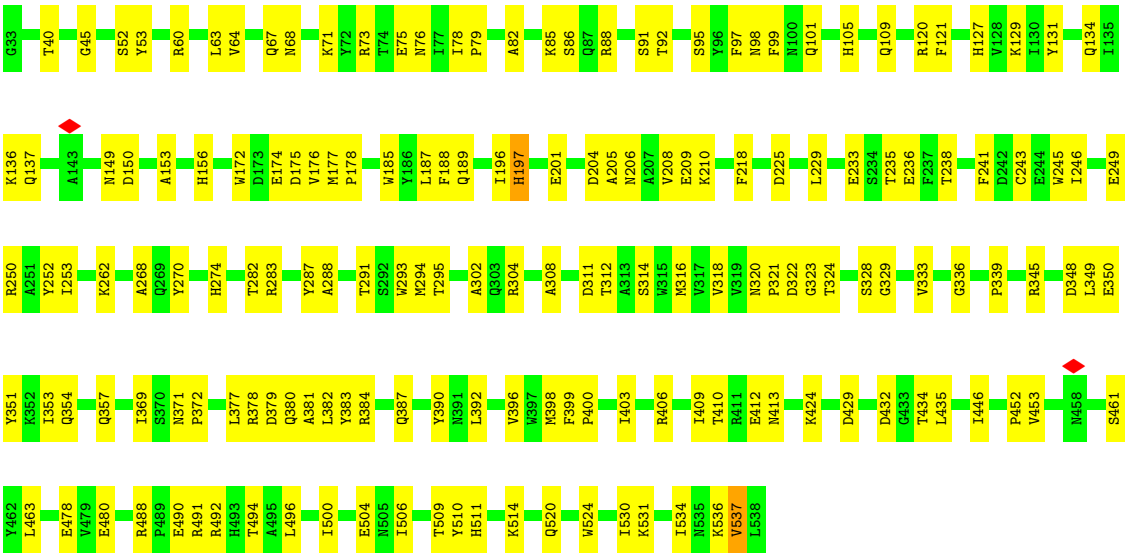
• Molecule 1: VP2

Chain M:



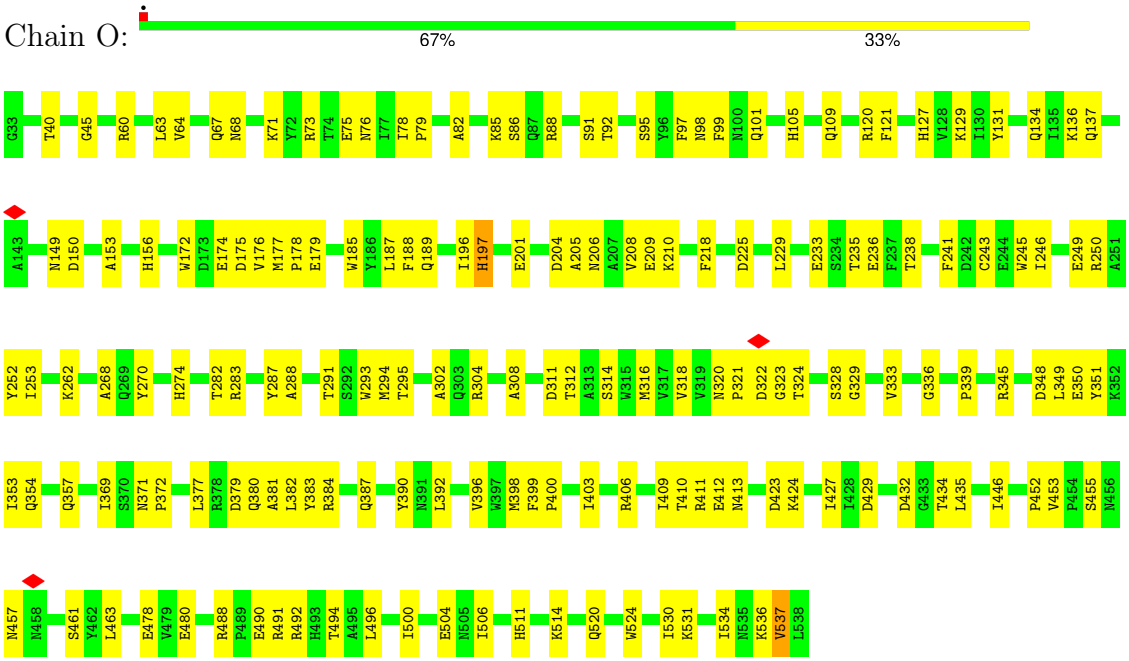
• Molecule 1: VP2

Chain N:



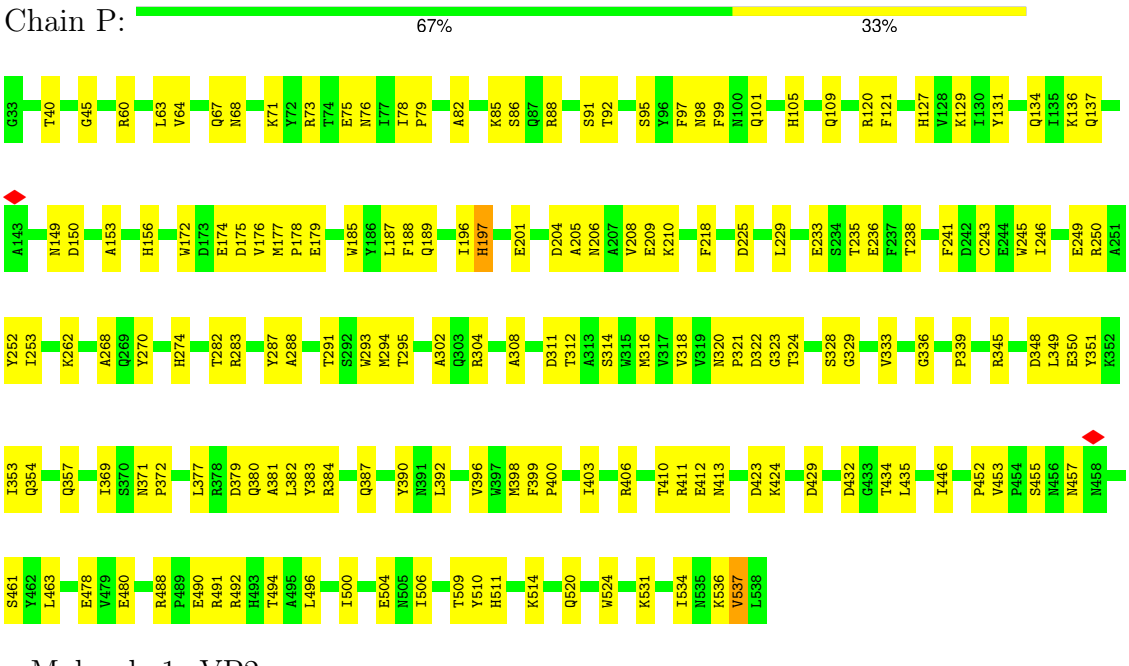
• Molecule 1: VP2

Chain O:



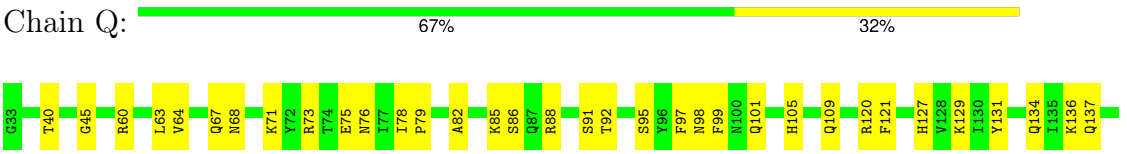
• Molecule 1: VP2

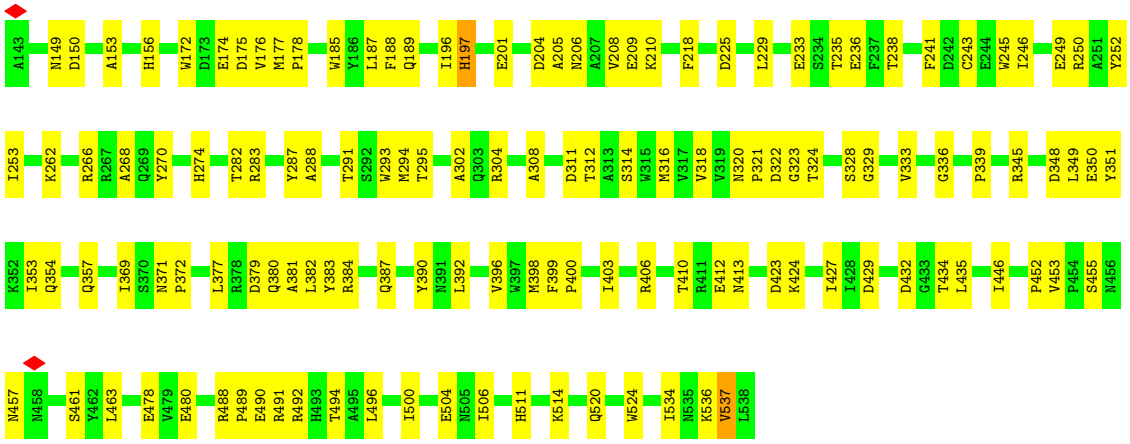
Chain P:



• Molecule 1: VP2

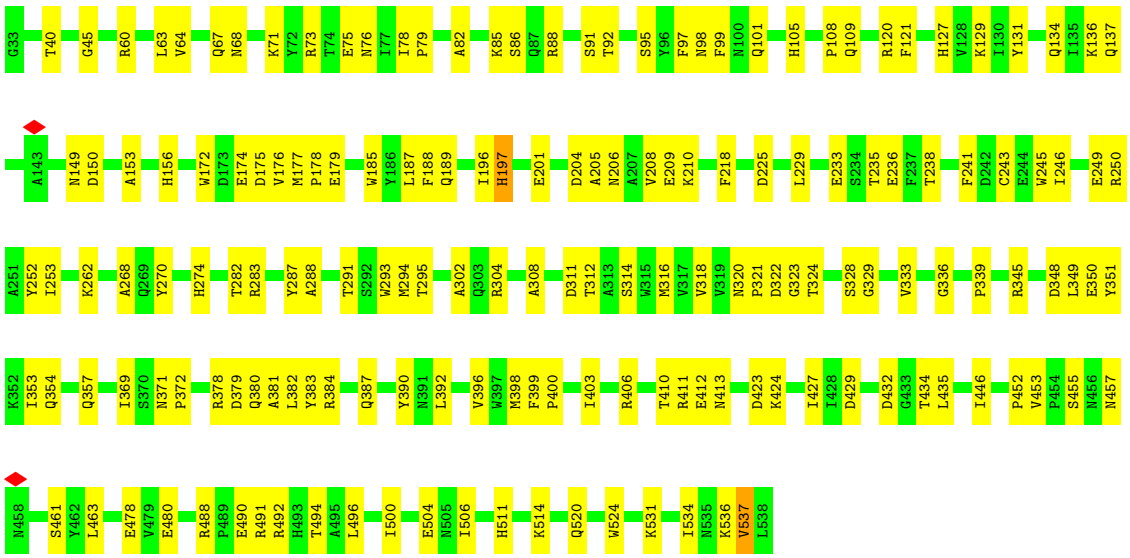
Chain Q:





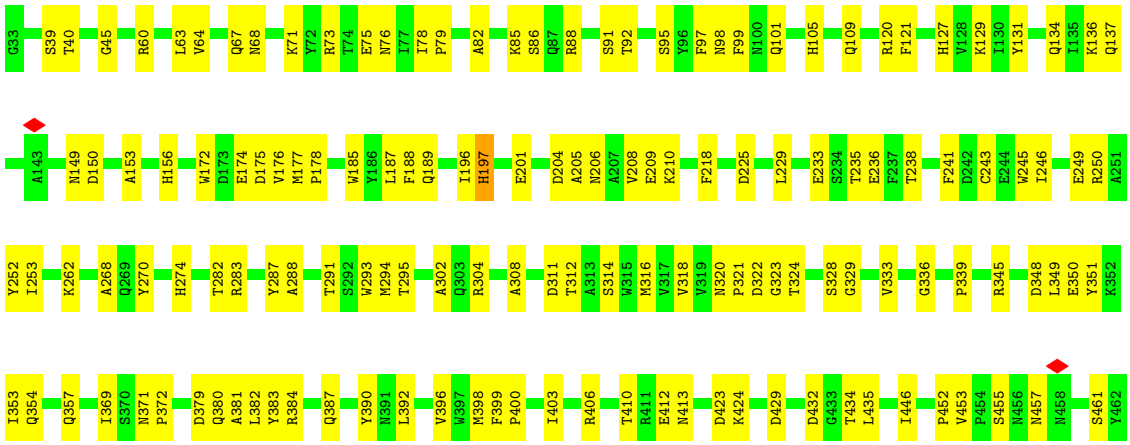
• Molecule 1: VP2

Chain R:



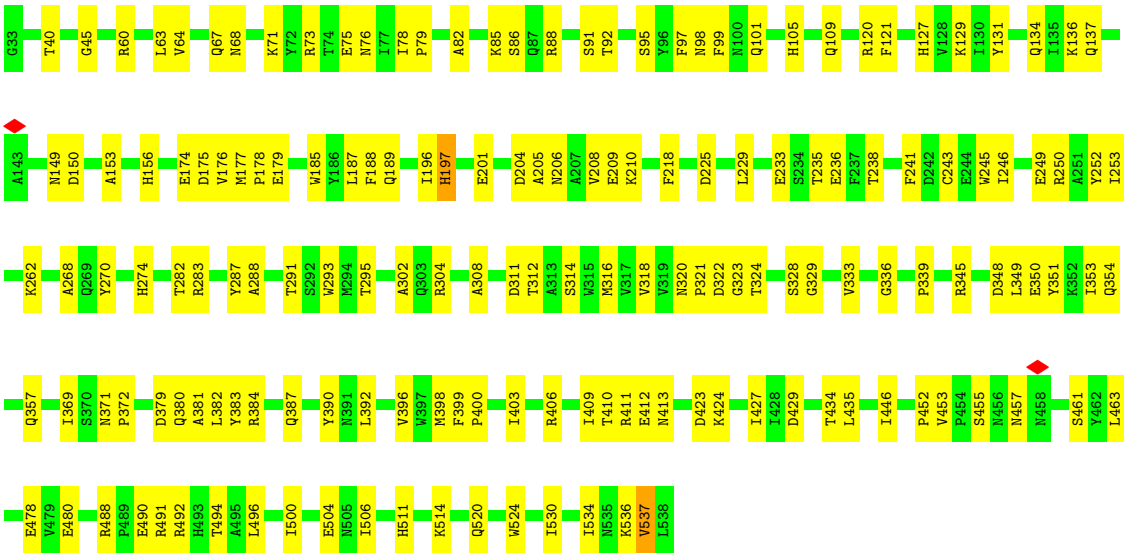
• Molecule 1: VP2

Chain S:



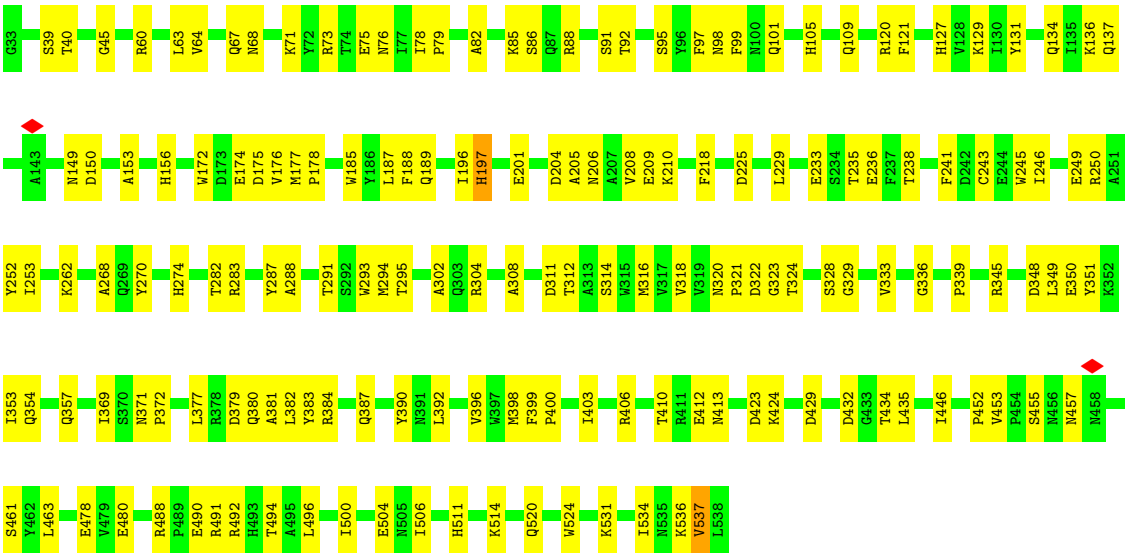
• Molecule 1: VP2

Chain T:



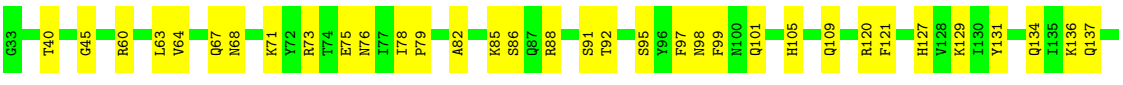
• Molecule 1: VP2

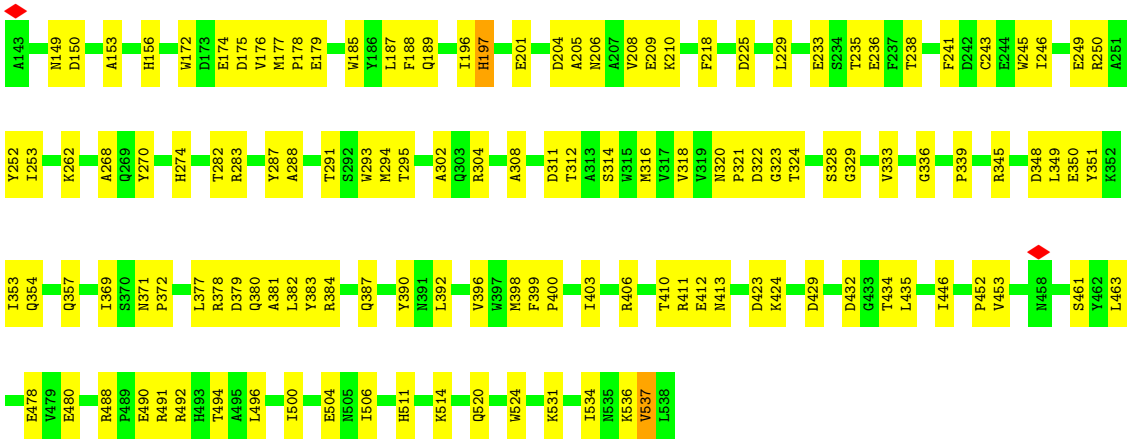
Chain U:



• Molecule 1: VP2

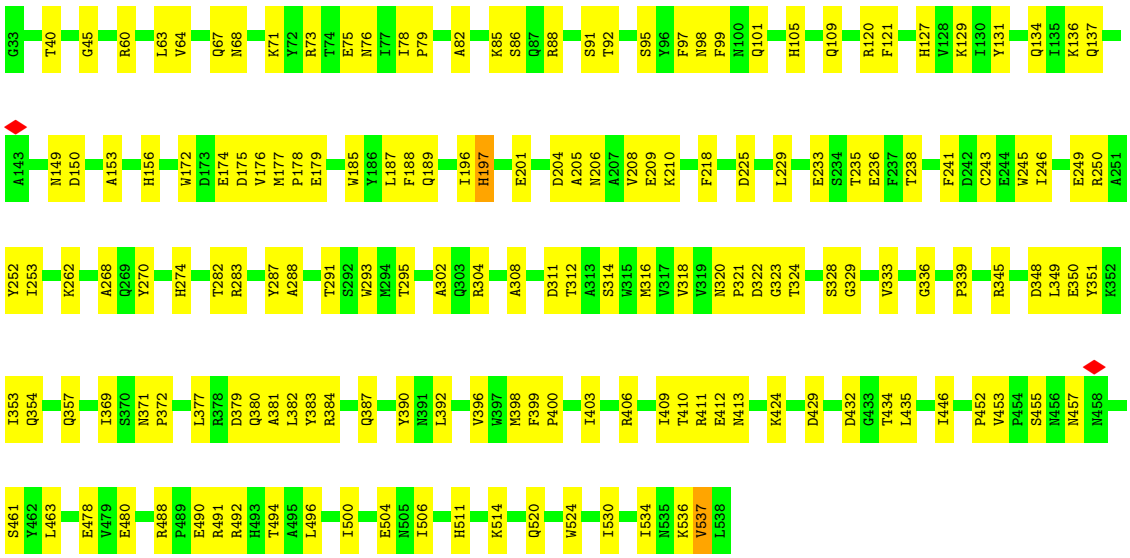
Chain V:





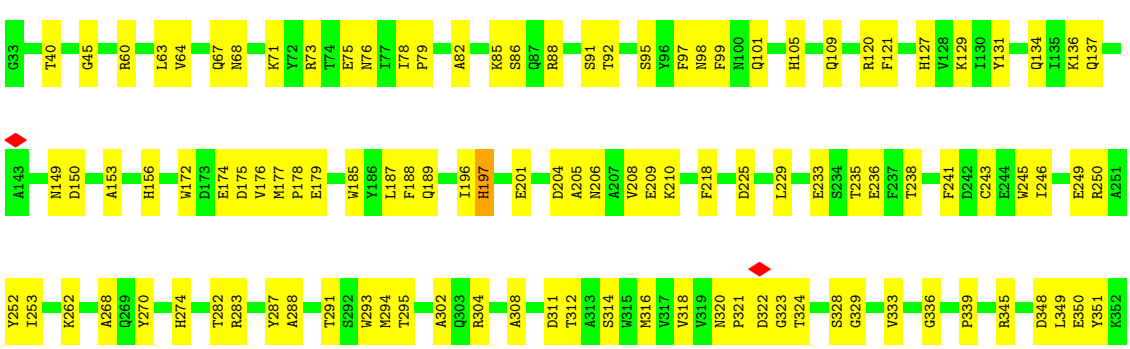
• Molecule 1: VP2

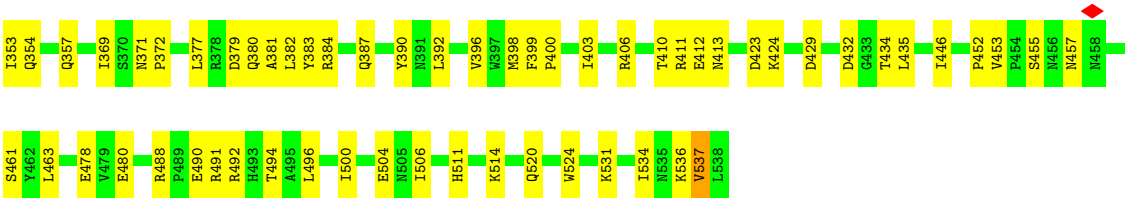
Chain W:



• Molecule 1: VP2

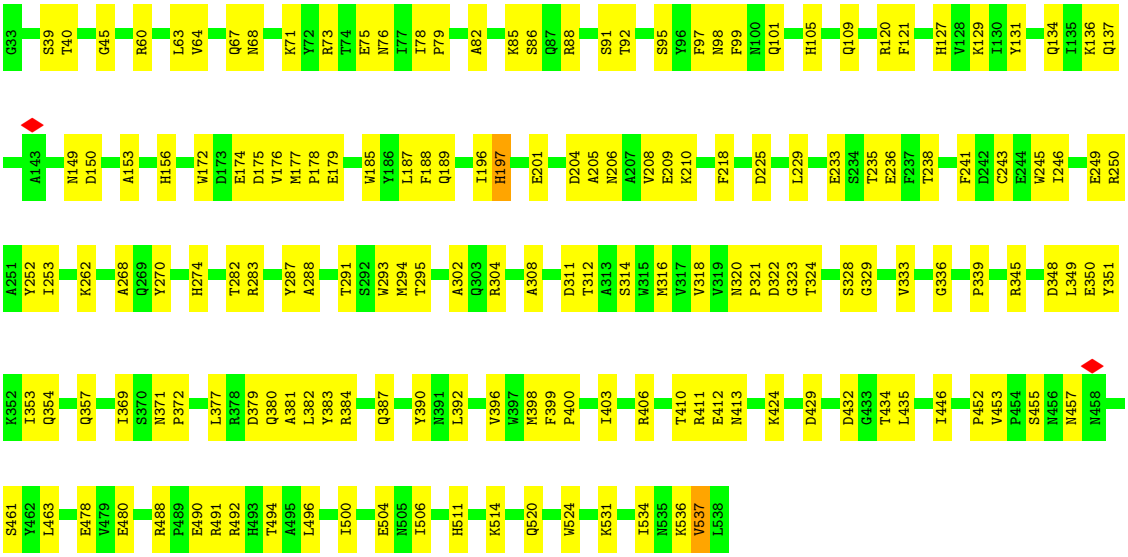
Chain X:





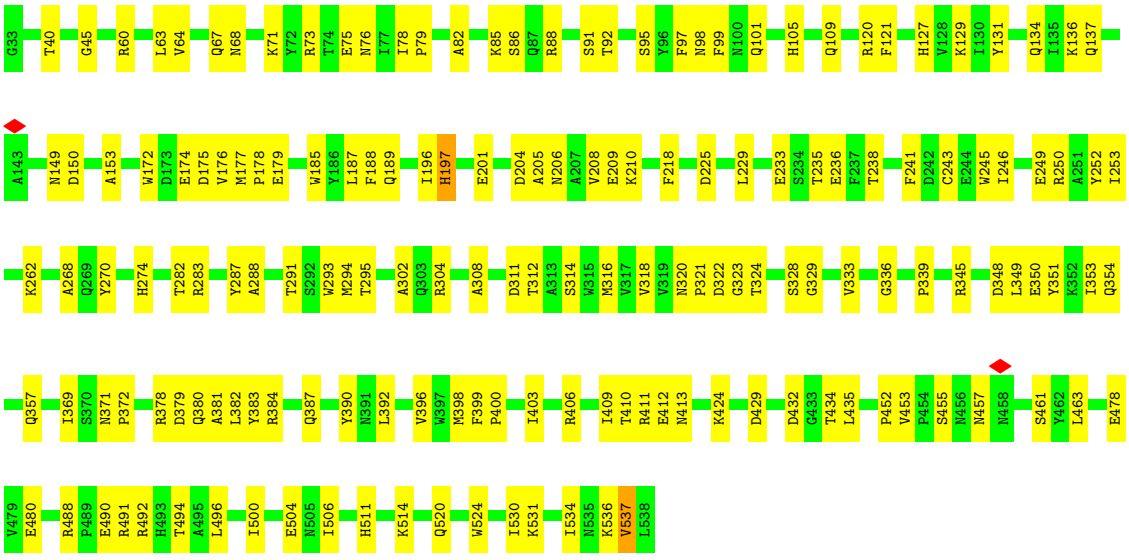
• Molecule 1: VP2

Chain Y:



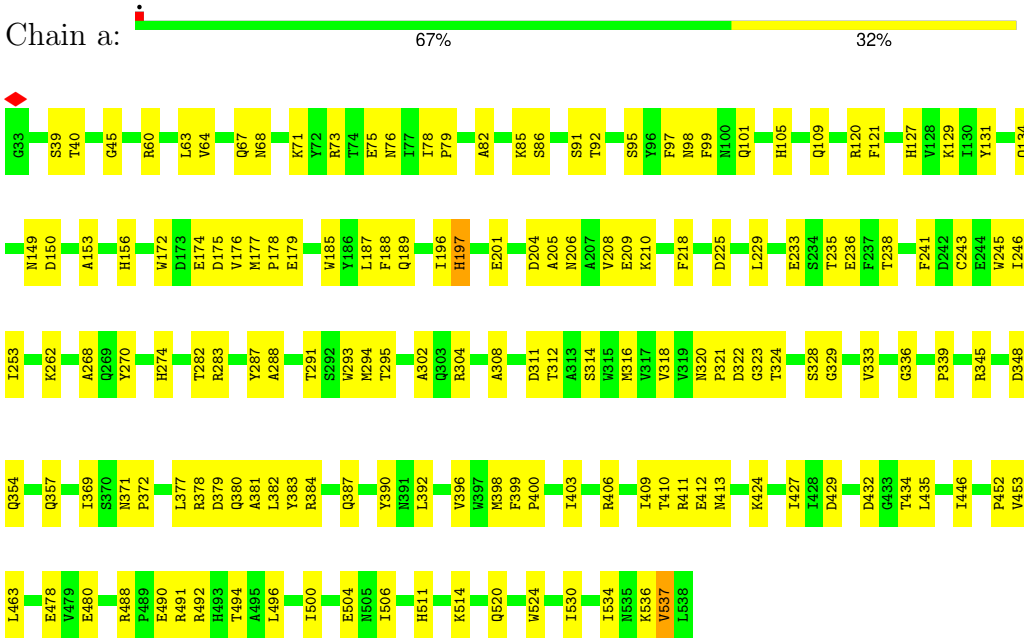
• Molecule 1: VP2

Chain Z:



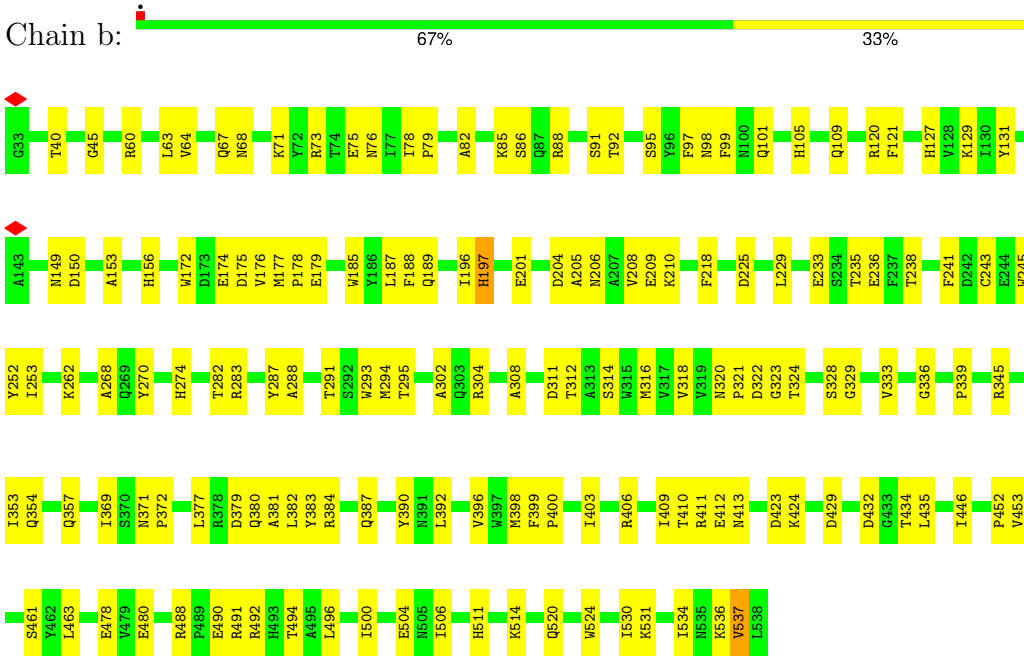
• Molecule 1: VP2

Chain a:



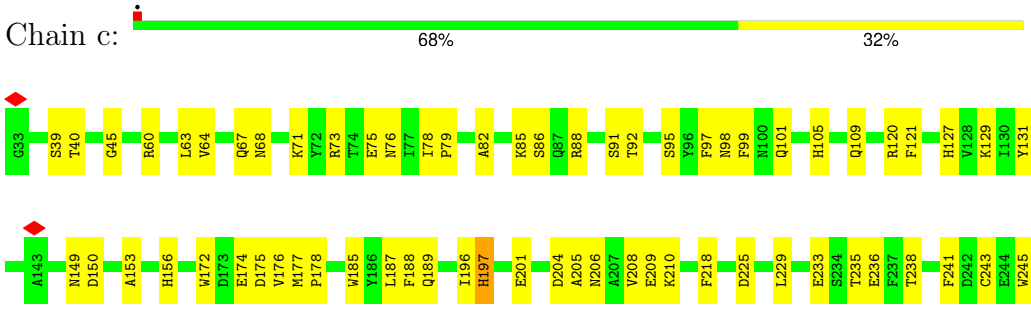
• Molecule 1: VP2

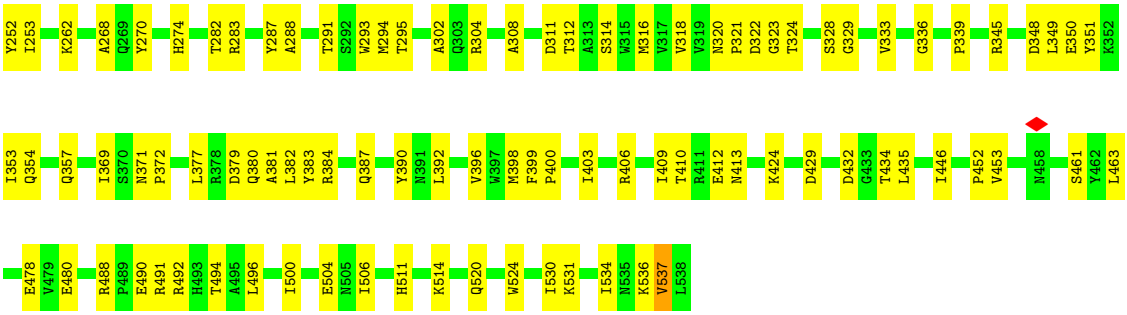
Chain b:



• Molecule 1: VP2

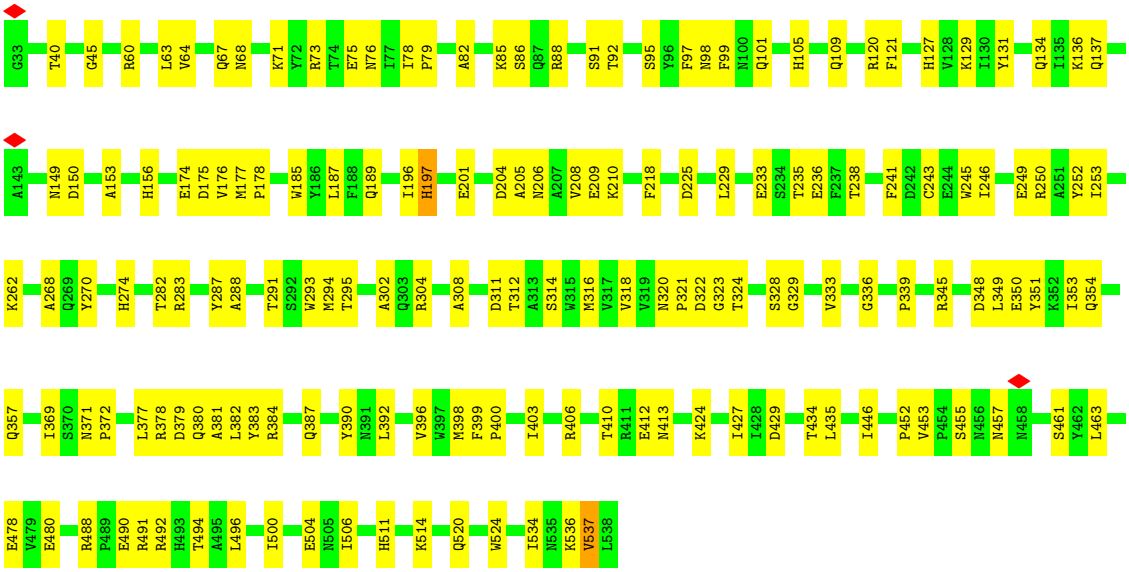
Chain c:





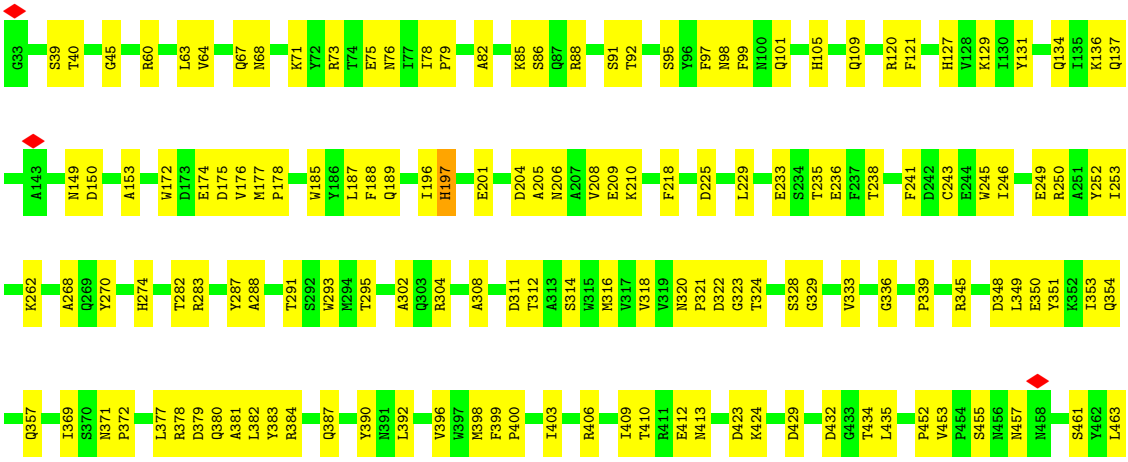
• Molecule 1: VP2

Chain d:



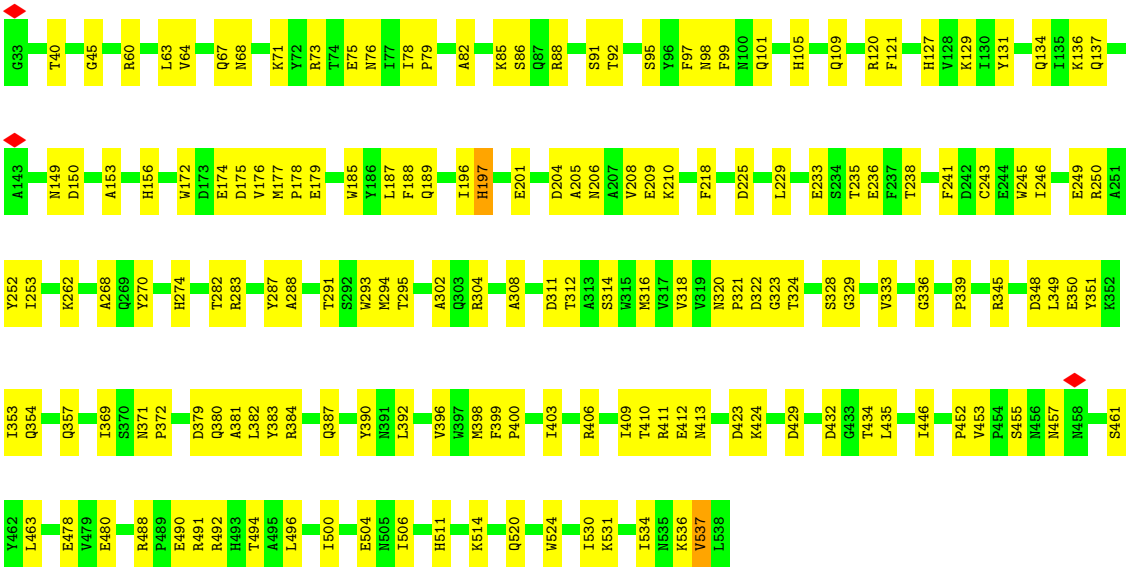
• Molecule 1: VP2

Chain e:



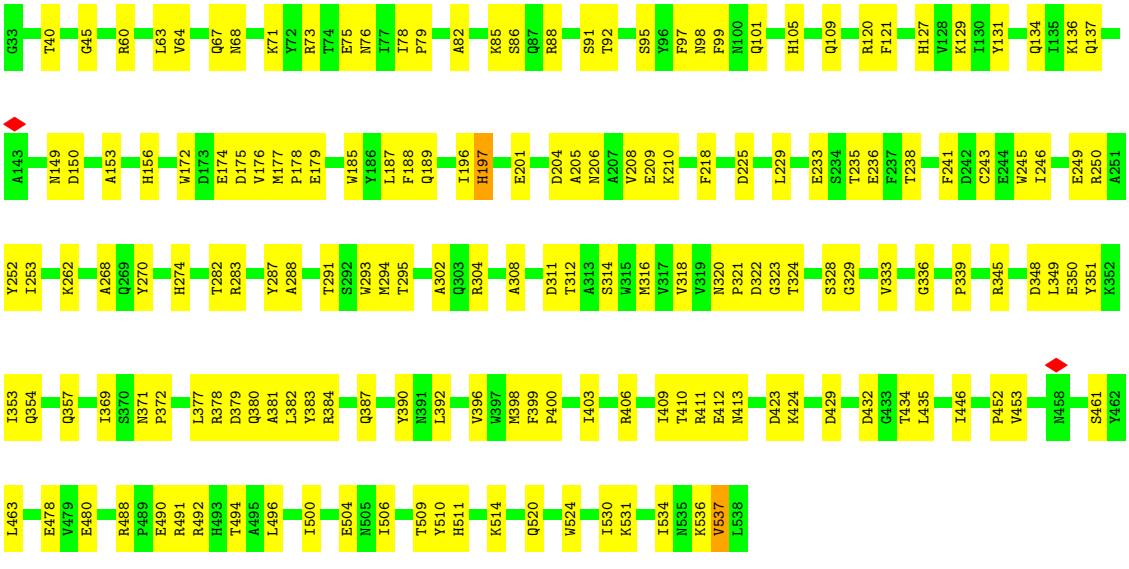
• Molecule 1: VP2

Chain f:



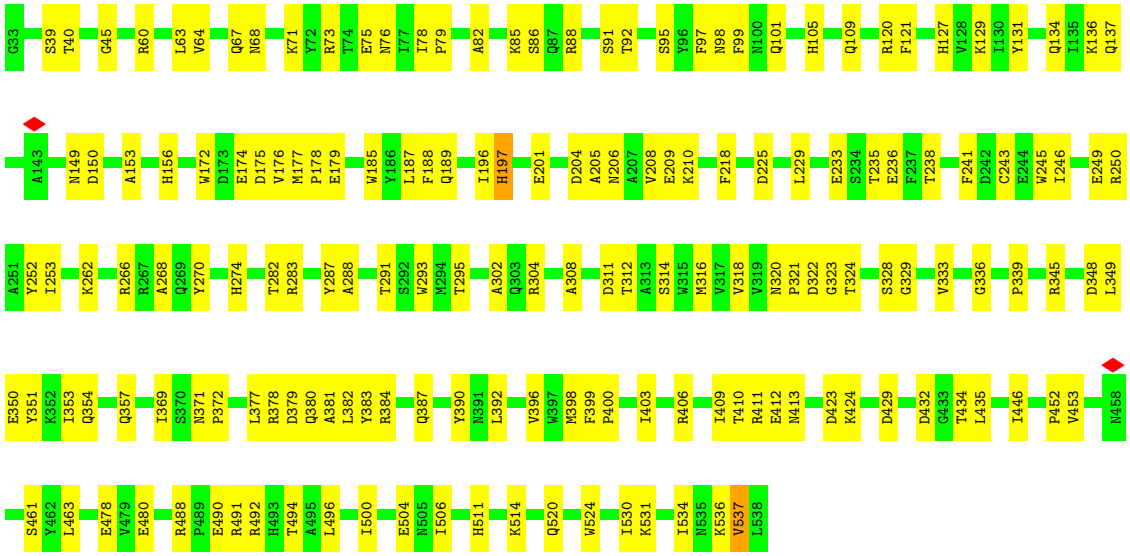
• Molecule 1: VP2

Chain g:



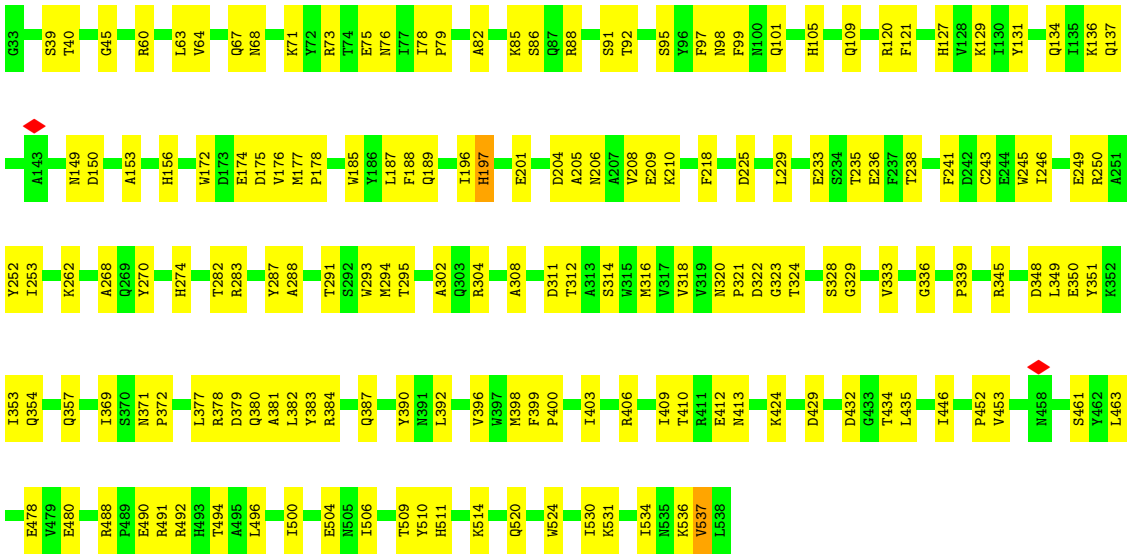
• Molecule 1: VP2

Chain h:



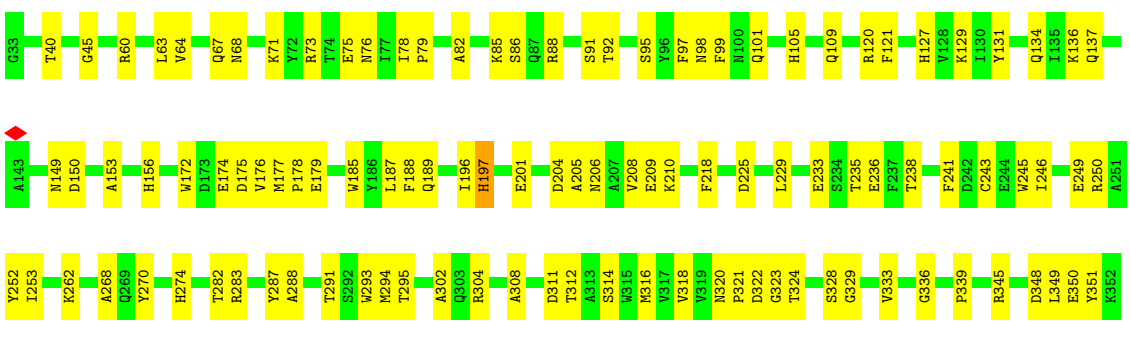
• Molecule 1: VP2

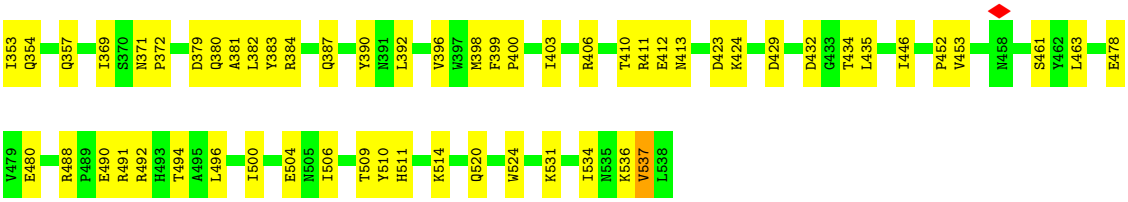
Chain i:



• Molecule 1: VP2

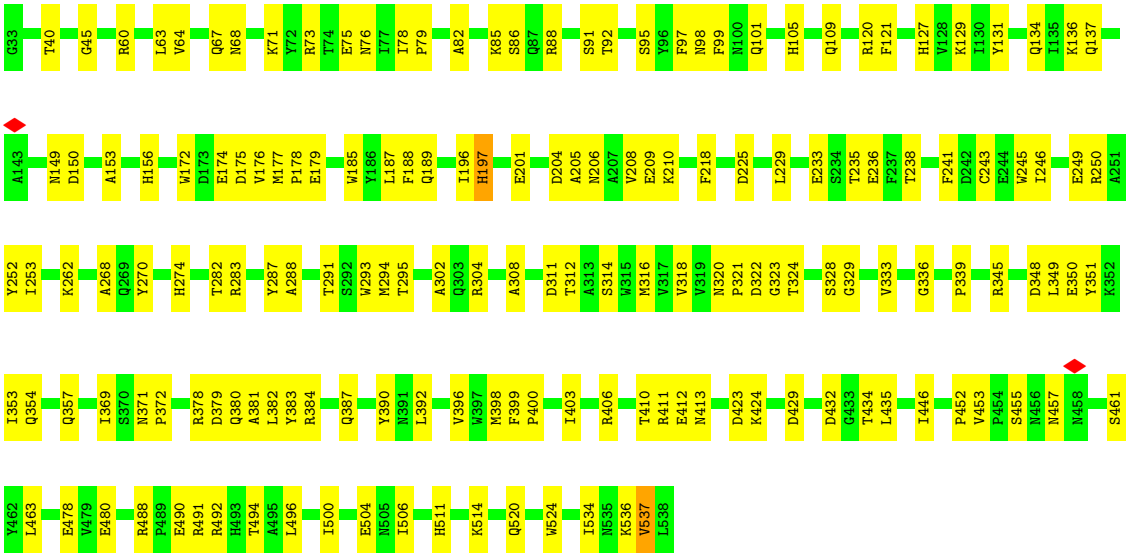
Chain j:





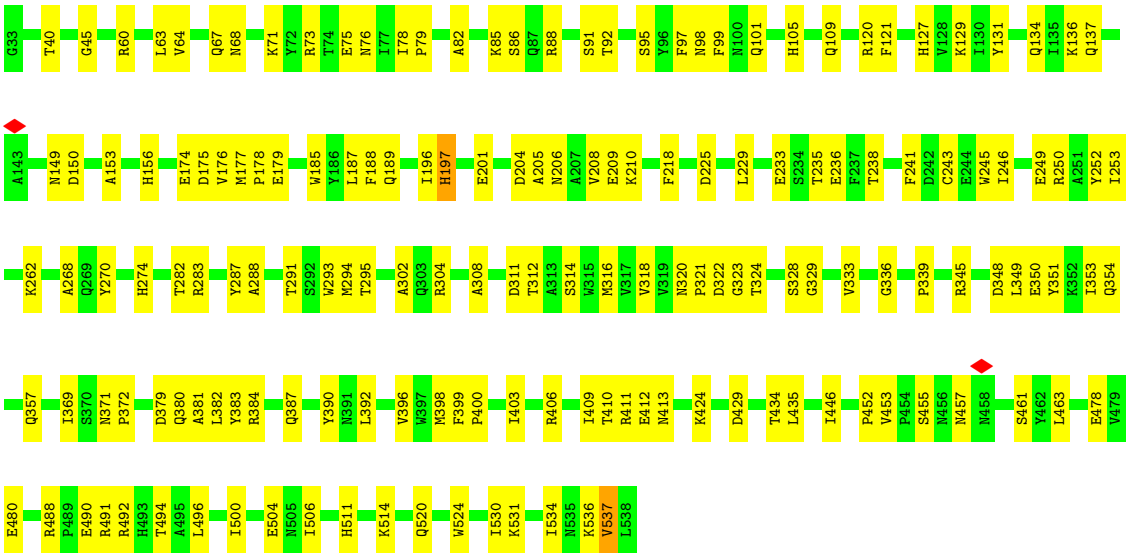
• Molecule 1: VP2

Chain k:



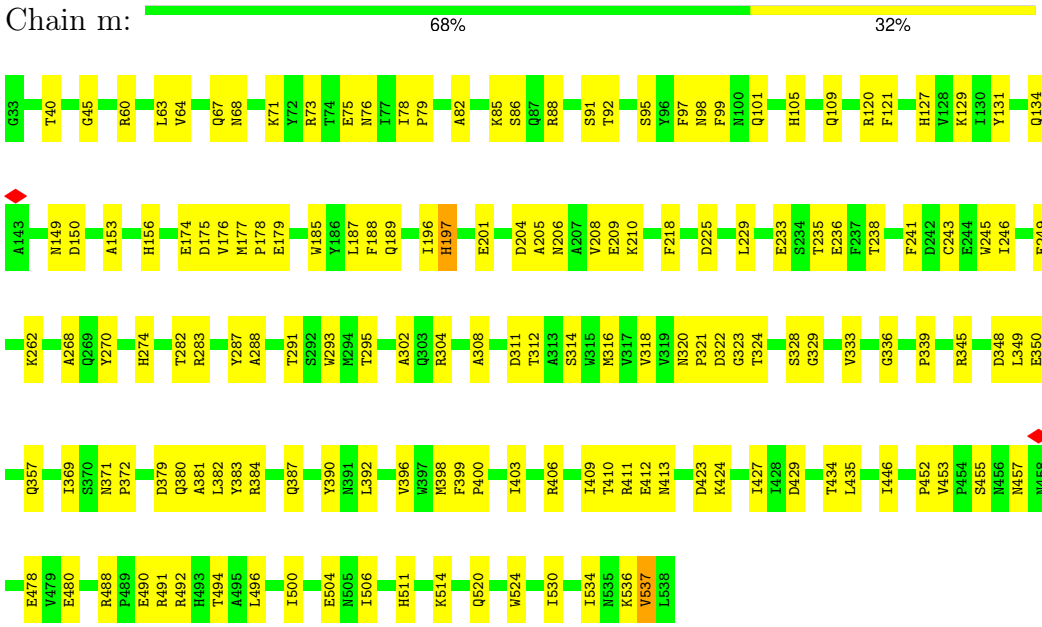
• Molecule 1: VP2

Chain l:



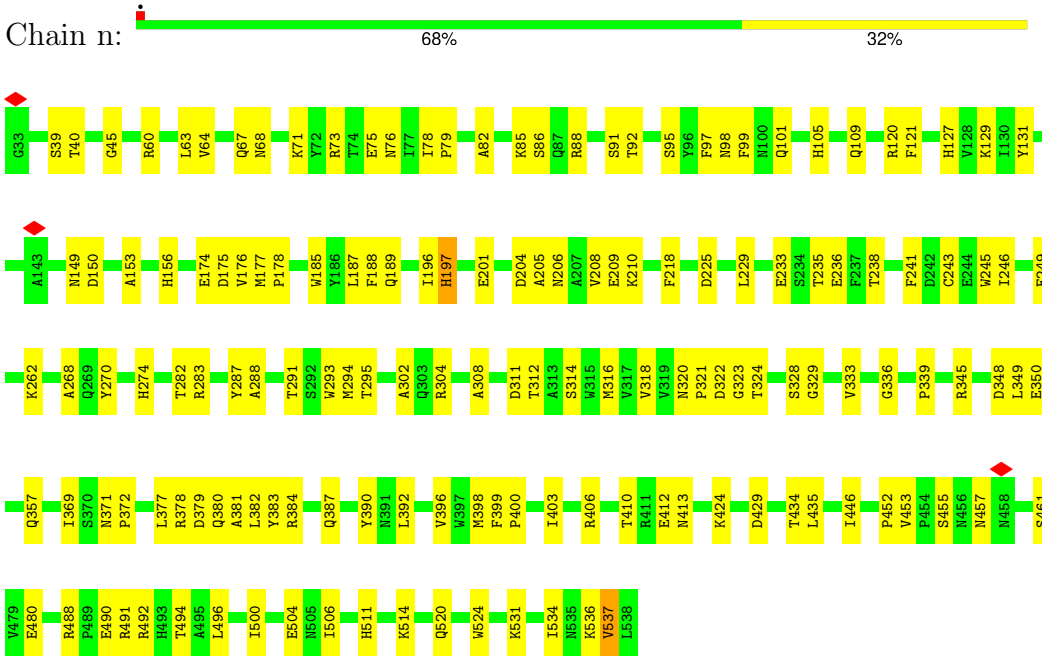
• Molecule 1: VP2

Chain m:



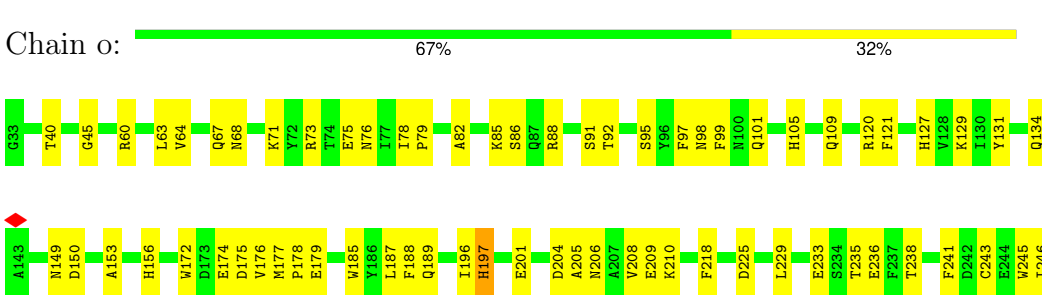
• Molecule 1: VP2

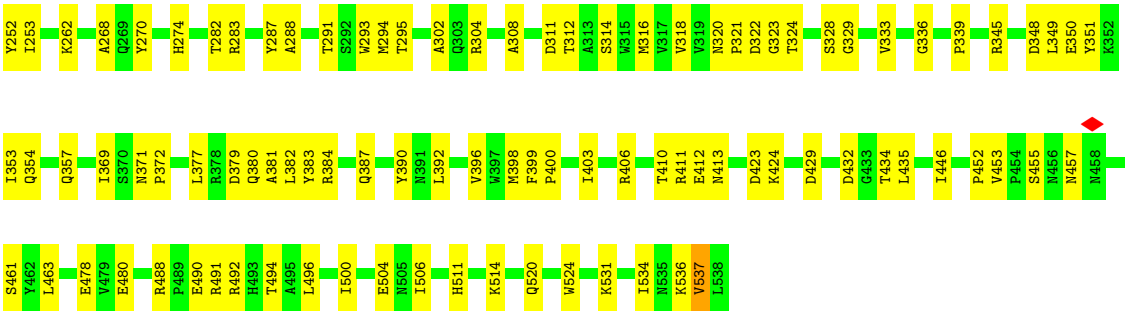
Chain n:



• Molecule 1: VP2

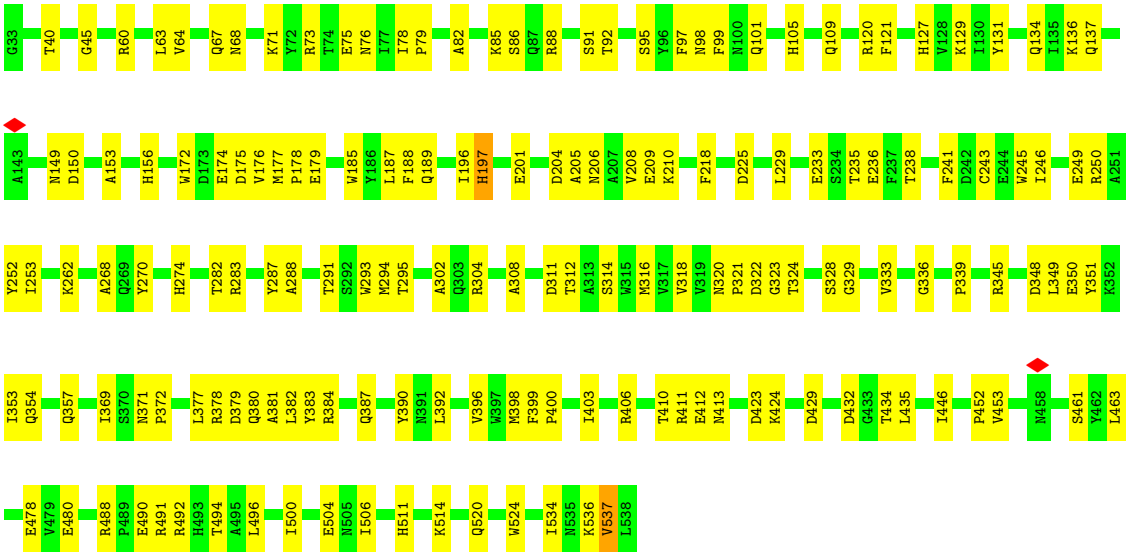
Chain o:





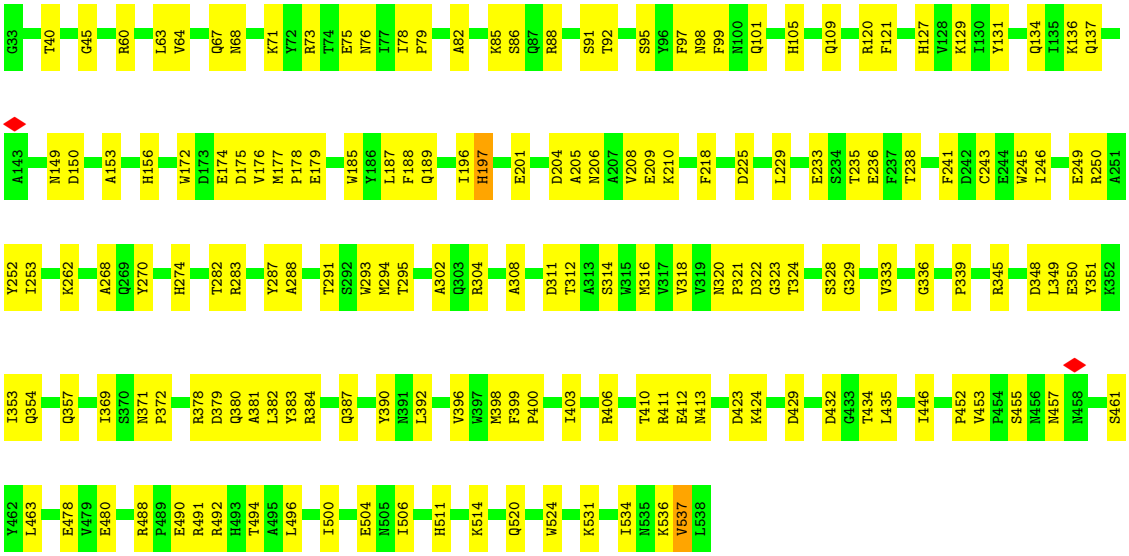
• Molecule 1: VP2

Chain p:



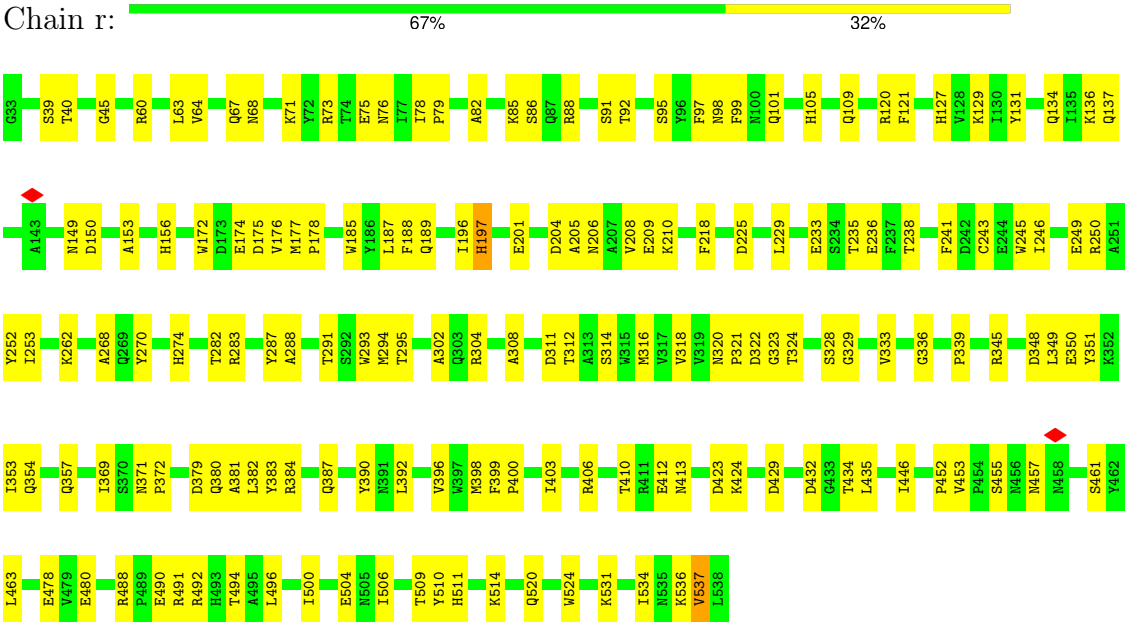
• Molecule 1: VP2

Chain q:



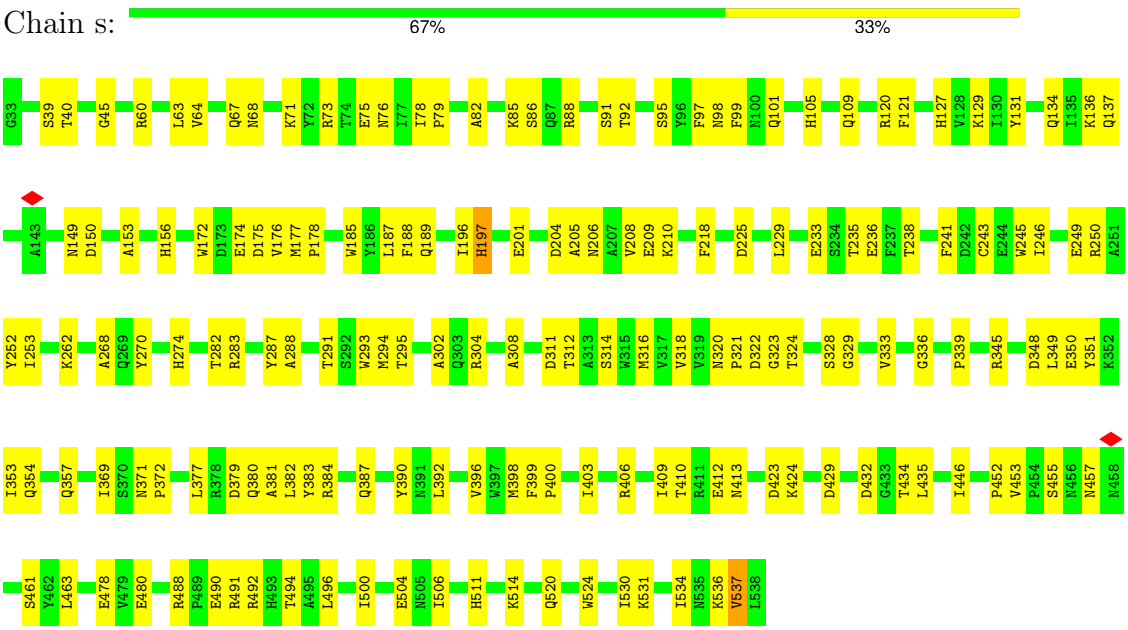
• Molecule 1: VP2

Chain r:



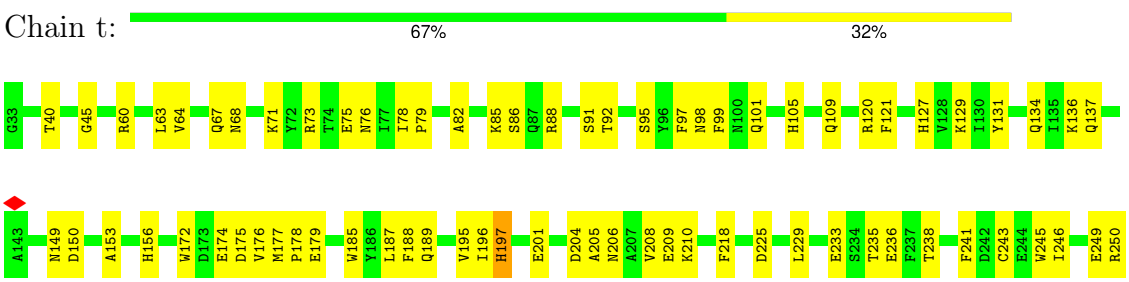
• Molecule 1: VP2

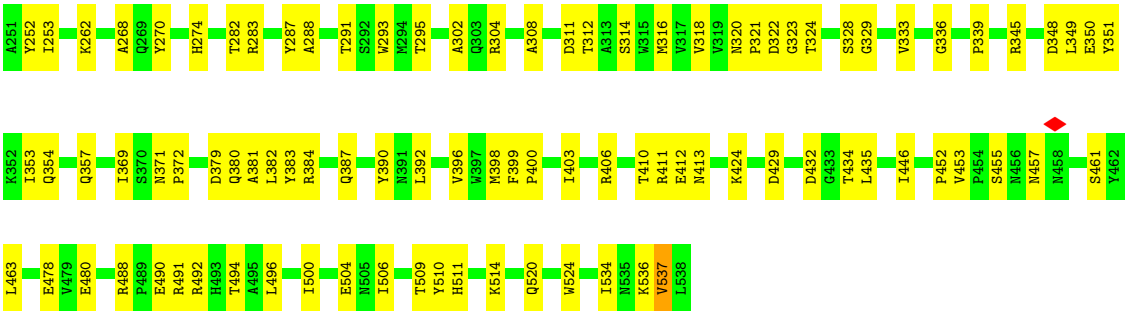
Chain s:



• Molecule 1: VP2

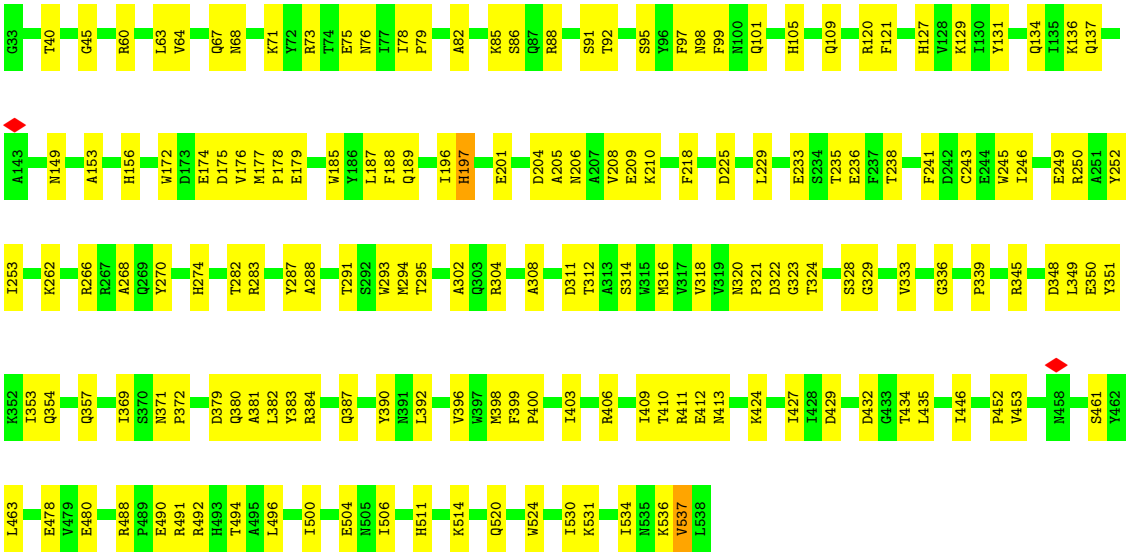
Chain t:





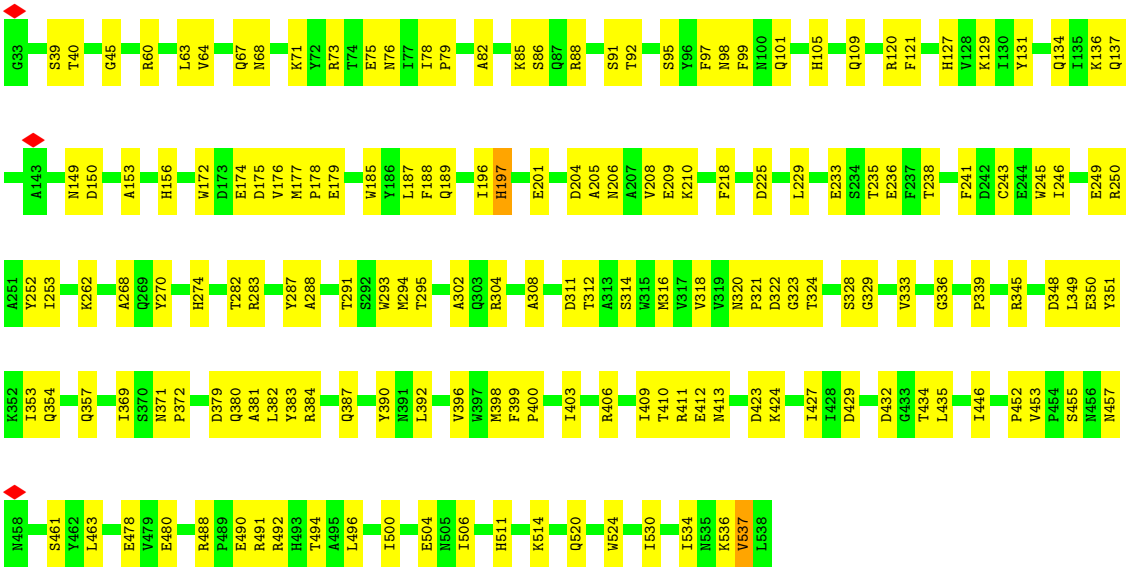
• Molecule 1: VP2

Chain u:



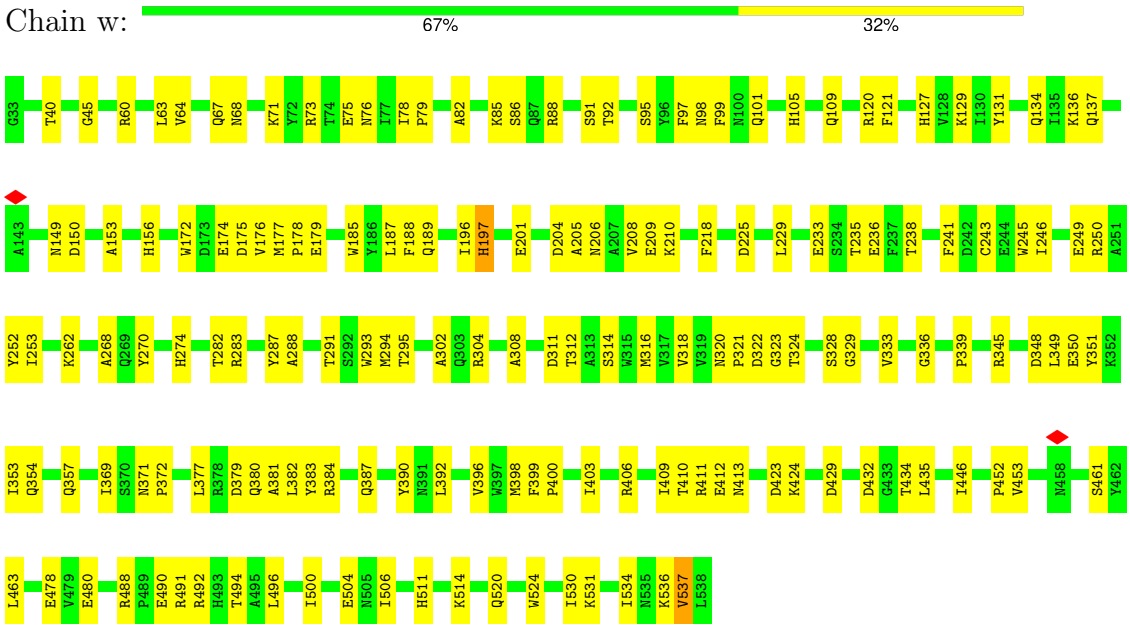
• Molecule 1: VP2

Chain v:



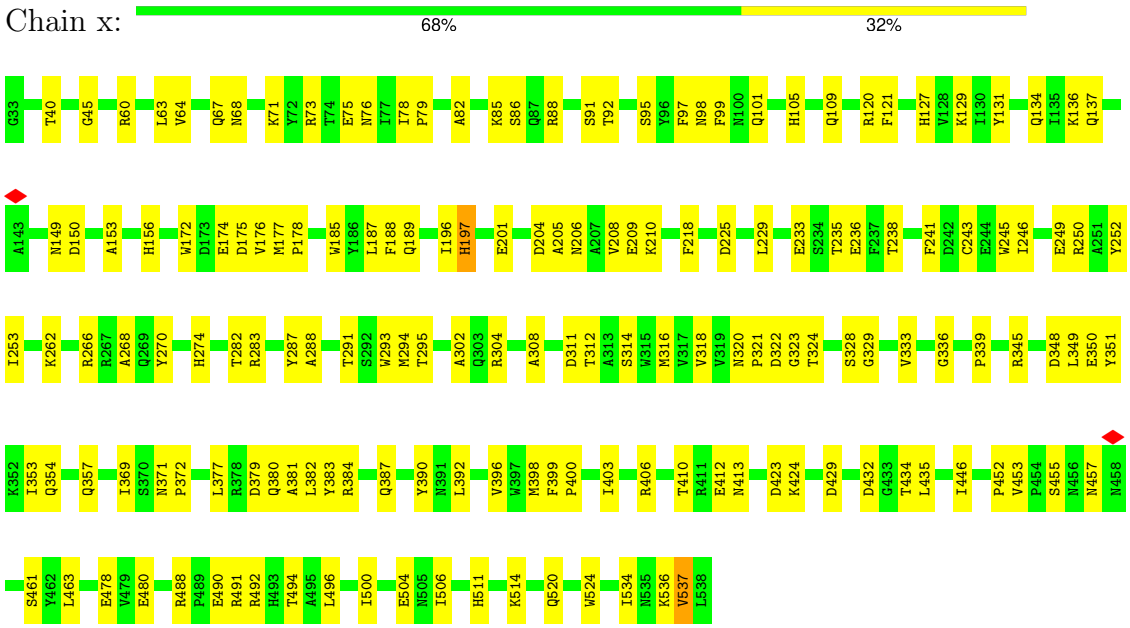
• Molecule 1: VP2

Chain w:



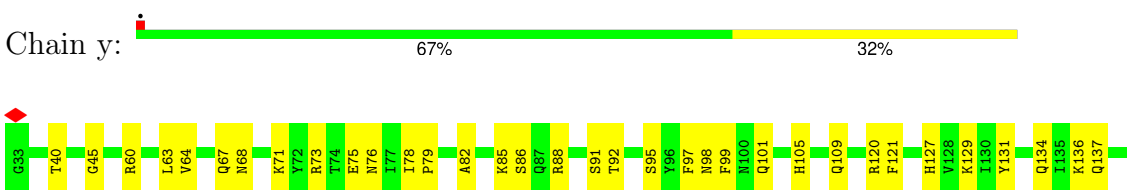
• Molecule 1: VP2

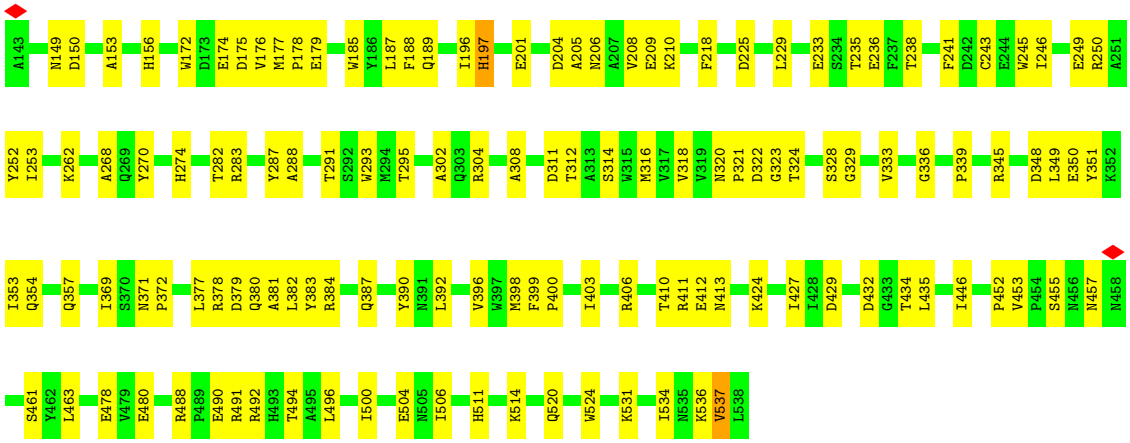
Chain x:



• Molecule 1: VP2

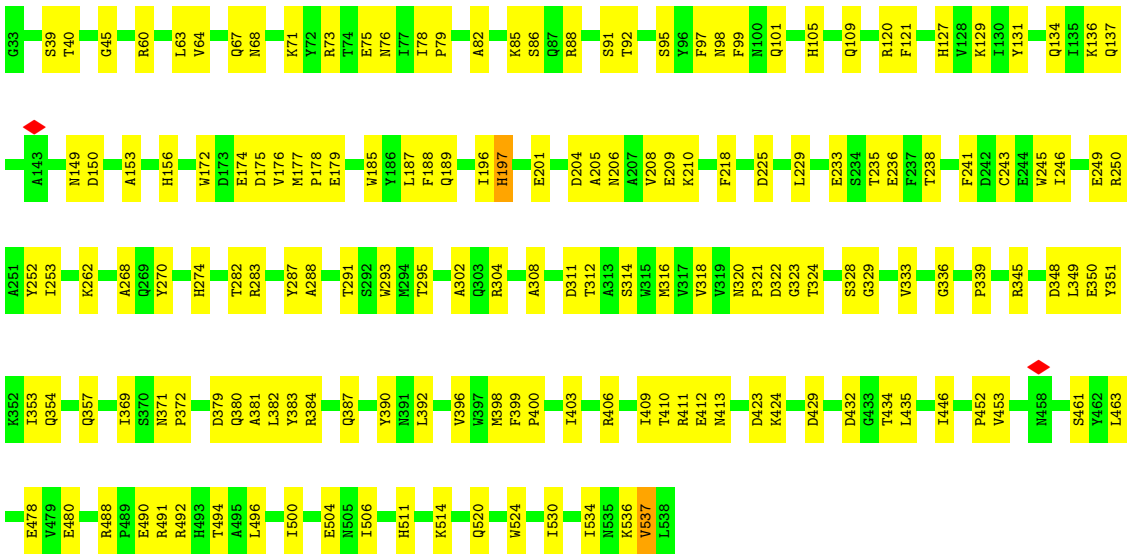
Chain y:





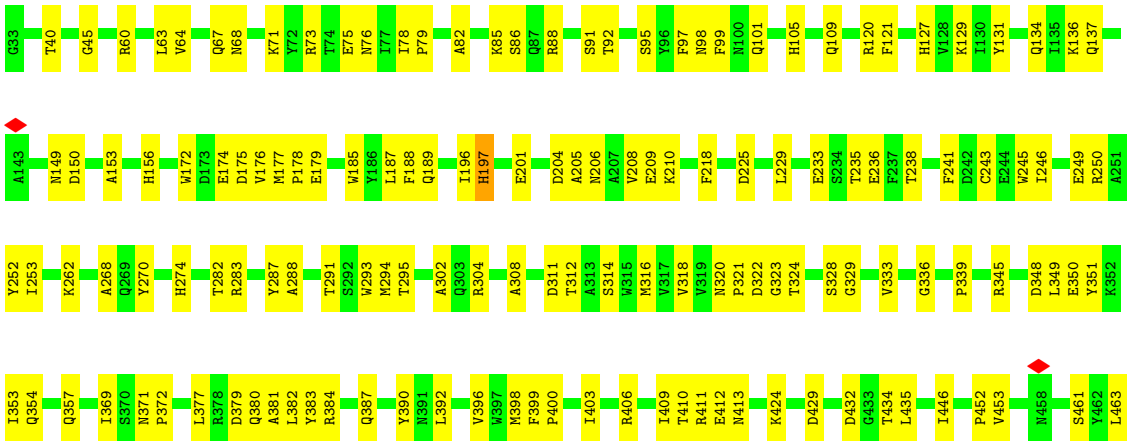
• Molecule 1: VP2

Chain z:



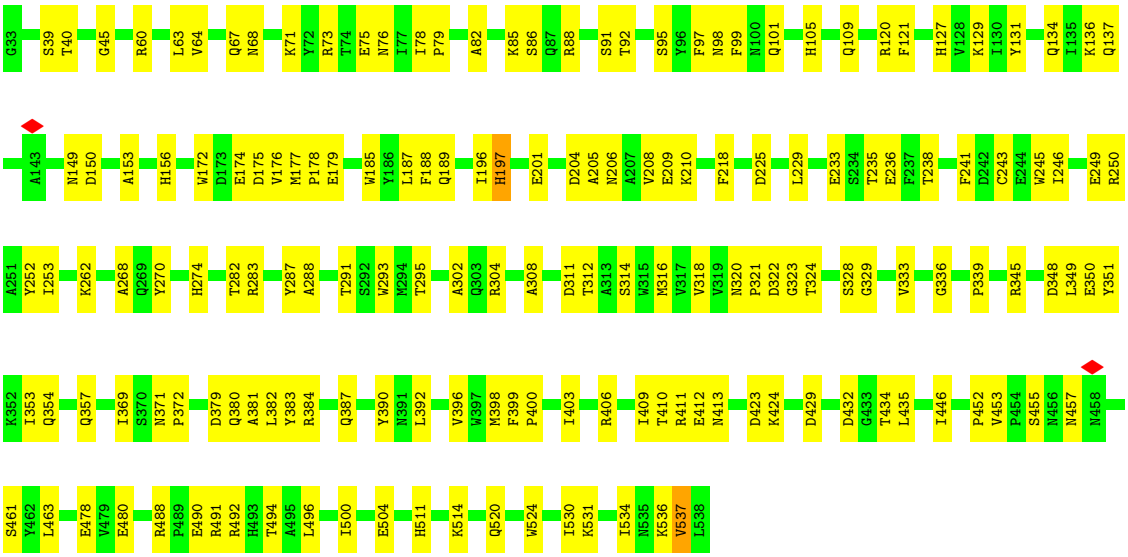
• Molecule 1: VP2

Chain 1:



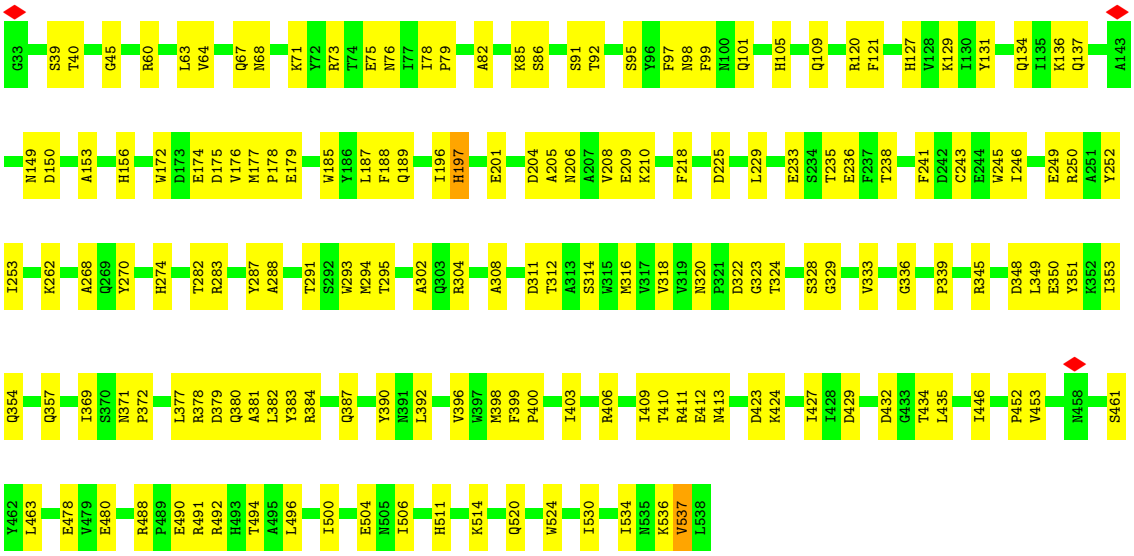
• Molecule 1: VP2

Chain 2:



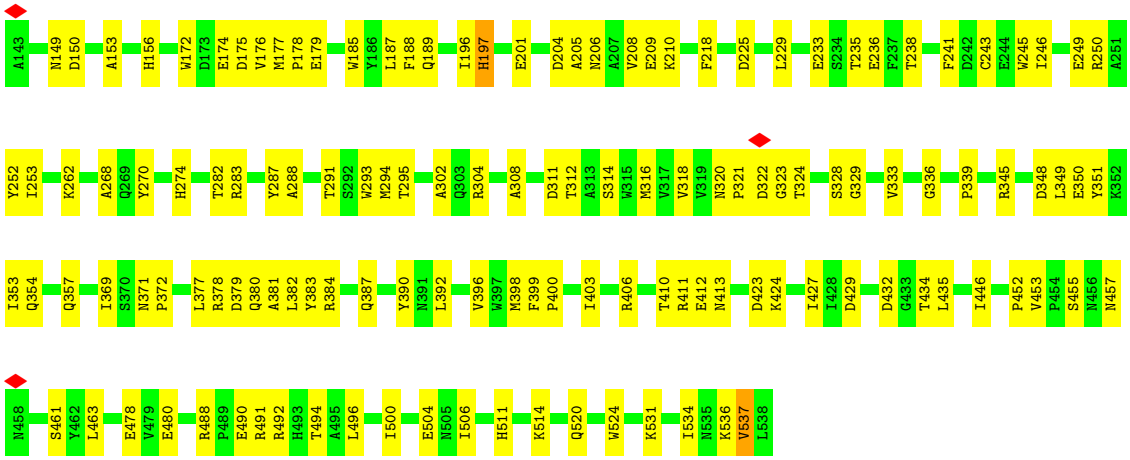
• Molecule 1: VP2

Chain 3:



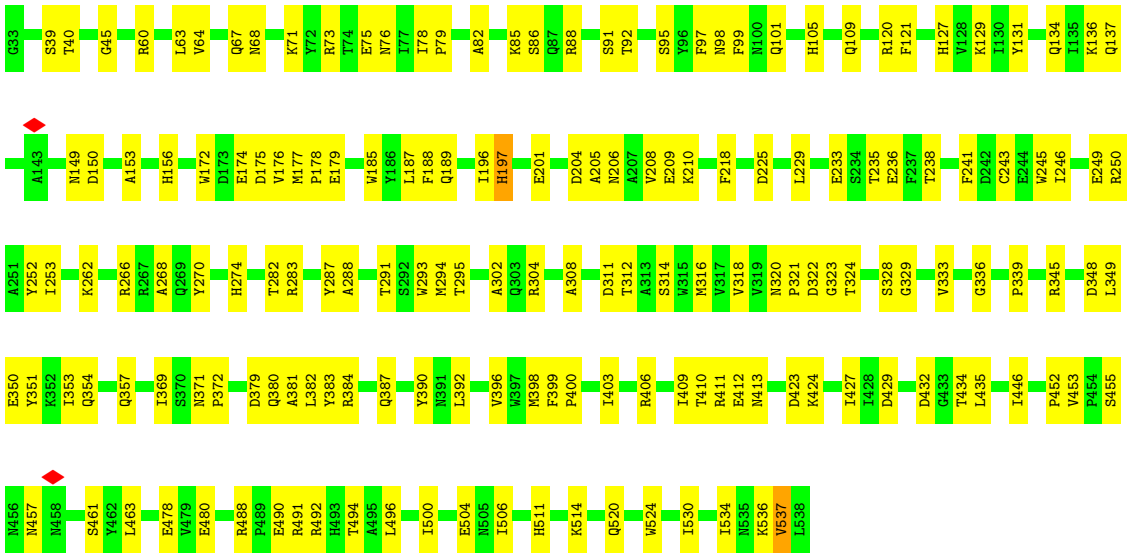
• Molecule 1: VP2

Chain 4:



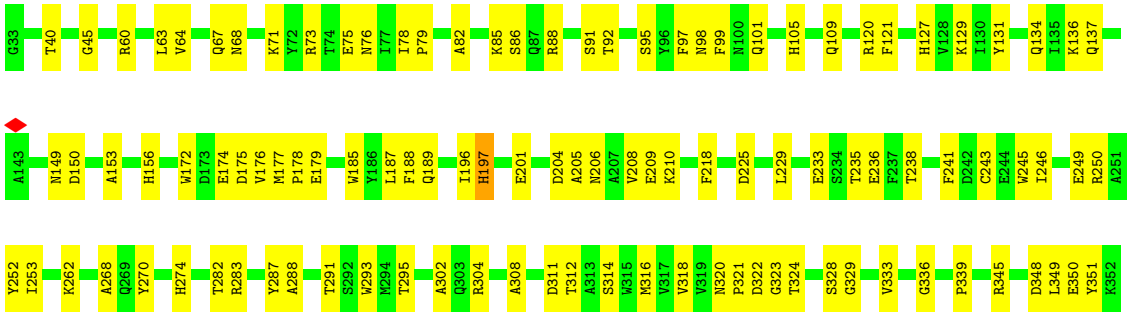
• Molecule 1: VP2

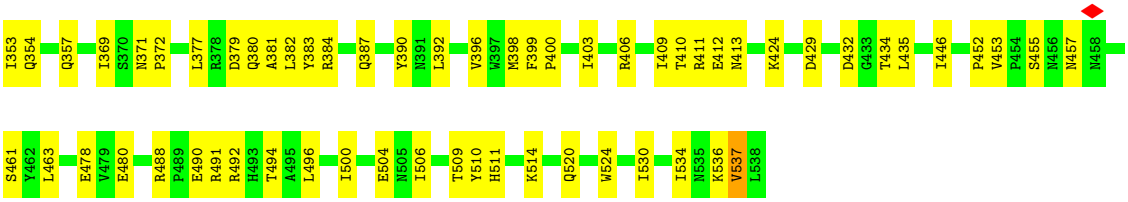
Chain 5:



• Molecule 1: VP2

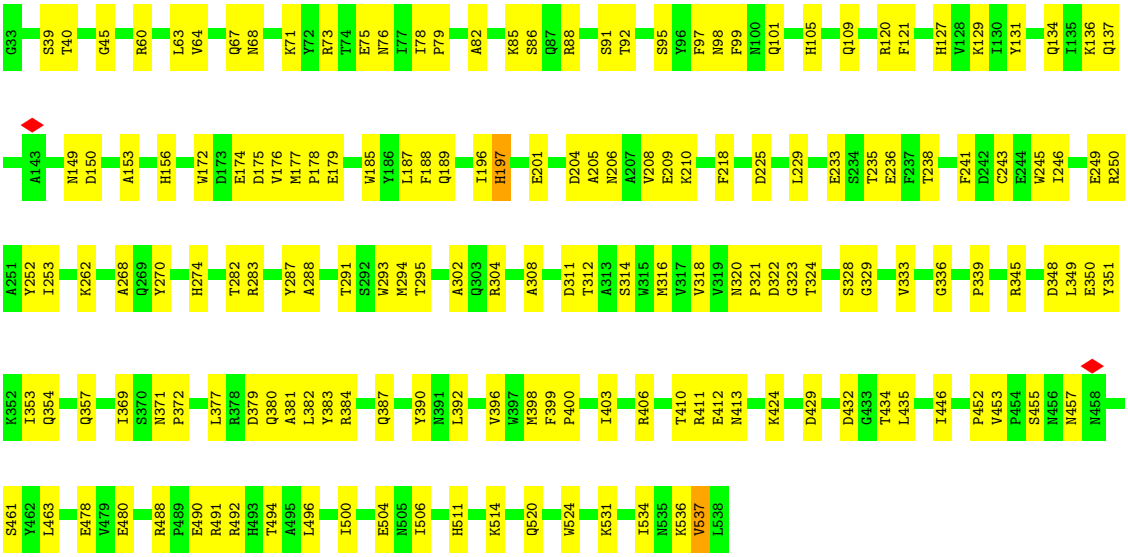
Chain 6:





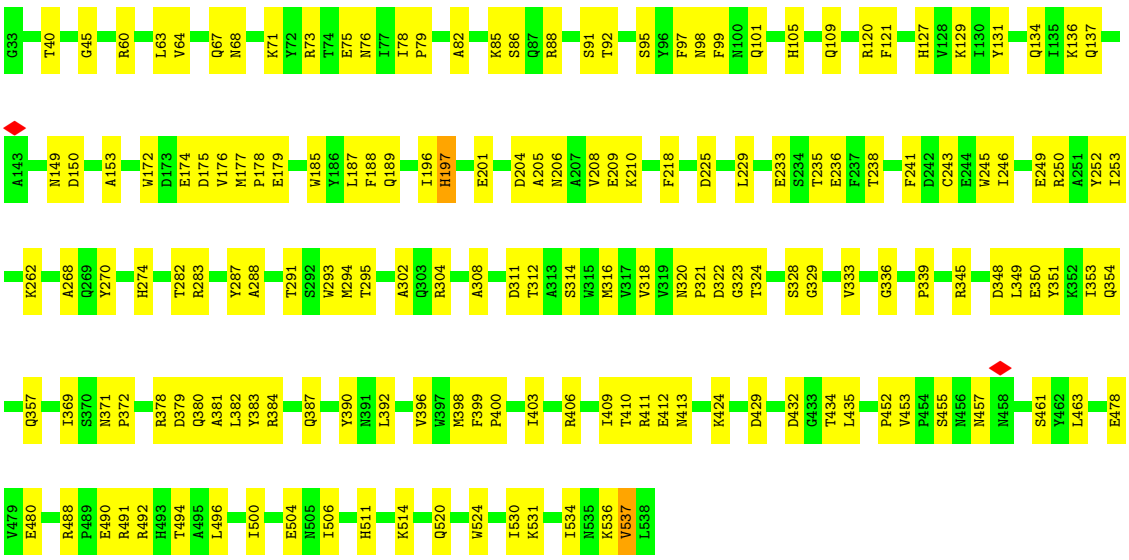
• Molecule 1: VP2

Chain 7:



• Molecule 1: VP2

Chain 8:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	188857	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 ($e^-/Å^2$)	64	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-20 (5k x 3k)	Depositor
Maximum map value	20.269	Depositor
Minimum map value	-10.466	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.5	Depositor
Map size (Å)	431.1, 431.1, 431.1	wwPDB
Map dimensions	450, 450, 450	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.958, 0.958, 0.958	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	0.43	0/4178	0.55	3/5700 (0.1%)
1	2	0.43	0/4178	0.55	3/5700 (0.1%)
1	3	0.43	0/4178	0.55	3/5700 (0.1%)
1	4	0.43	0/4178	0.55	3/5700 (0.1%)
1	5	0.43	0/4178	0.55	3/5700 (0.1%)
1	6	0.43	0/4178	0.55	3/5700 (0.1%)
1	7	0.43	0/4178	0.55	3/5700 (0.1%)
1	8	0.43	0/4178	0.55	3/5700 (0.1%)
1	A	0.43	0/4178	0.55	3/5700 (0.1%)
1	B	0.43	0/4178	0.55	3/5700 (0.1%)
1	C	0.43	0/4178	0.55	3/5700 (0.1%)
1	D	0.43	0/4178	0.55	3/5700 (0.1%)
1	E	0.43	0/4178	0.55	3/5700 (0.1%)
1	F	0.43	0/4178	0.55	3/5700 (0.1%)
1	G	0.43	0/4178	0.55	3/5700 (0.1%)
1	H	0.43	0/4178	0.55	3/5700 (0.1%)
1	I	0.43	0/4178	0.55	3/5700 (0.1%)
1	J	0.43	0/4178	0.55	3/5700 (0.1%)
1	K	0.43	0/4178	0.55	3/5700 (0.1%)
1	L	0.43	0/4178	0.55	3/5700 (0.1%)
1	M	0.43	0/4178	0.55	3/5700 (0.1%)
1	N	0.43	0/4178	0.55	3/5700 (0.1%)
1	O	0.43	0/4178	0.55	3/5700 (0.1%)
1	P	0.43	0/4178	0.55	3/5700 (0.1%)
1	Q	0.43	0/4178	0.55	3/5700 (0.1%)
1	R	0.43	0/4178	0.55	3/5700 (0.1%)
1	S	0.43	0/4178	0.55	3/5700 (0.1%)
1	T	0.43	0/4178	0.55	3/5700 (0.1%)
1	U	0.43	0/4178	0.55	3/5700 (0.1%)
1	V	0.43	0/4178	0.55	3/5700 (0.1%)
1	W	0.43	0/4178	0.55	3/5700 (0.1%)
1	X	0.43	0/4178	0.55	3/5700 (0.1%)
1	Y	0.43	0/4178	0.55	3/5700 (0.1%)
1	Z	0.43	0/4178	0.55	3/5700 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.43	0/4178	0.55	3/5700 (0.1%)
1	b	0.43	0/4178	0.55	3/5700 (0.1%)
1	c	0.43	0/4178	0.55	3/5700 (0.1%)
1	d	0.43	0/4178	0.55	3/5700 (0.1%)
1	e	0.43	0/4178	0.55	3/5700 (0.1%)
1	f	0.43	0/4178	0.55	3/5700 (0.1%)
1	g	0.43	0/4178	0.55	3/5700 (0.1%)
1	h	0.43	0/4178	0.55	3/5700 (0.1%)
1	i	0.43	0/4178	0.55	3/5700 (0.1%)
1	j	0.43	0/4178	0.55	3/5700 (0.1%)
1	k	0.43	0/4178	0.55	3/5700 (0.1%)
1	l	0.43	0/4178	0.55	3/5700 (0.1%)
1	m	0.43	0/4178	0.55	3/5700 (0.1%)
1	n	0.43	0/4178	0.55	3/5700 (0.1%)
1	o	0.43	0/4178	0.55	3/5700 (0.1%)
1	p	0.43	0/4178	0.55	3/5700 (0.1%)
1	q	0.43	0/4178	0.55	3/5700 (0.1%)
1	r	0.43	0/4178	0.55	3/5700 (0.1%)
1	s	0.43	0/4178	0.55	3/5700 (0.1%)
1	t	0.43	0/4178	0.55	3/5700 (0.1%)
1	u	0.43	0/4178	0.55	3/5700 (0.1%)
1	v	0.43	0/4178	0.55	3/5700 (0.1%)
1	w	0.43	0/4178	0.55	3/5700 (0.1%)
1	x	0.43	0/4178	0.55	3/5700 (0.1%)
1	y	0.43	0/4178	0.55	3/5700 (0.1%)
1	z	0.43	0/4178	0.55	3/5700 (0.1%)
All	All	0.43	0/250680	0.55	180/342000 (0.1%)

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 (180) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	537	VAL	O-C-N	-10.14	110.19	122.77
1	U	537	VAL	O-C-N	-10.14	110.19	122.77
1	z	537	VAL	O-C-N	-10.14	110.19	122.77
1	D	537	VAL	O-C-N	-10.14	110.20	122.77
1	E	537	VAL	O-C-N	-10.13	110.20	122.77
1	K	537	VAL	O-C-N	-10.13	110.21	122.77
1	N	537	VAL	O-C-N	-10.13	110.21	122.77
1	S	537	VAL	O-C-N	-10.13	110.21	122.77
1	T	537	VAL	O-C-N	-10.13	110.21	122.77
1	Y	537	VAL	O-C-N	-10.13	110.21	122.77
1	g	537	VAL	O-C-N	-10.13	110.21	122.77
1	I	537	VAL	O-C-N	-10.13	110.21	122.77
1	L	537	VAL	O-C-N	-10.13	110.21	122.77
1	c	537	VAL	O-C-N	-10.13	110.21	122.77
1	s	537	VAL	O-C-N	-10.13	110.21	122.77
1	u	537	VAL	O-C-N	-10.13	110.21	122.77
1	x	537	VAL	O-C-N	-10.13	110.21	122.77
1	2	537	VAL	O-C-N	-10.13	110.21	122.77
1	m	537	VAL	O-C-N	-10.12	110.22	122.77
1	j	537	VAL	O-C-N	-10.12	110.22	122.77
1	p	537	VAL	O-C-N	-10.12	110.22	122.77
1	5	537	VAL	O-C-N	-10.12	110.22	122.77
1	A	537	VAL	O-C-N	-10.12	110.22	122.77
1	F	537	VAL	O-C-N	-10.12	110.22	122.77
1	b	537	VAL	O-C-N	-10.12	110.22	122.77
1	e	537	VAL	O-C-N	-10.12	110.22	122.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	n	537	VAL	O-C-N	-10.12	110.22	122.77
1	v	537	VAL	O-C-N	-10.12	110.22	122.77
1	y	537	VAL	O-C-N	-10.12	110.22	122.77
1	H	537	VAL	O-C-N	-10.12	110.23	122.77
1	k	537	VAL	O-C-N	-10.12	110.23	122.77
1	6	537	VAL	O-C-N	-10.12	110.23	122.77
1	4	537	VAL	O-C-N	-10.11	110.23	122.77
1	B	537	VAL	O-C-N	-10.11	110.23	122.77
1	P	537	VAL	O-C-N	-10.11	110.23	122.77
1	r	537	VAL	O-C-N	-10.11	110.24	122.77
1	a	537	VAL	O-C-N	-10.10	110.25	122.77
1	d	537	VAL	O-C-N	-10.10	110.25	122.77
1	f	537	VAL	O-C-N	-10.10	110.25	122.77
1	3	537	VAL	O-C-N	-10.10	110.25	122.77
1	Z	537	VAL	O-C-N	-10.09	110.25	122.77
1	h	537	VAL	O-C-N	-10.09	110.25	122.77
1	o	537	VAL	O-C-N	-10.09	110.25	122.77
1	w	537	VAL	O-C-N	-10.09	110.26	122.77
1	G	537	VAL	O-C-N	-10.09	110.26	122.77
1	Q	537	VAL	O-C-N	-10.09	110.26	122.77
1	V	537	VAL	O-C-N	-10.09	110.26	122.77
1	t	537	VAL	O-C-N	-10.09	110.26	122.77
1	C	537	VAL	O-C-N	-10.09	110.26	122.77
1	M	537	VAL	O-C-N	-10.09	110.26	122.77
1	X	537	VAL	O-C-N	-10.09	110.26	122.77
1	l	537	VAL	O-C-N	-10.08	110.27	122.77
1	8	537	VAL	O-C-N	-10.08	110.27	122.77
1	O	537	VAL	O-C-N	-10.08	110.27	122.77
1	R	537	VAL	O-C-N	-10.08	110.27	122.77
1	i	537	VAL	O-C-N	-10.06	110.29	122.77
1	7	537	VAL	O-C-N	-10.06	110.29	122.77
1	q	537	VAL	O-C-N	-10.06	110.30	122.77
1	1	537	VAL	O-C-N	-10.06	110.30	122.77
1	W	537	VAL	O-C-N	-10.06	110.30	122.77
1	r	196	ILE	N-CA-C	-7.76	99.60	109.30
1	M	196	ILE	N-CA-C	-7.76	99.61	109.30
1	X	196	ILE	N-CA-C	-7.76	99.61	109.30
1	P	196	ILE	N-CA-C	-7.75	99.61	109.30
1	J	196	ILE	N-CA-C	-7.74	99.62	109.30
1	S	196	ILE	N-CA-C	-7.74	99.62	109.30
1	f	196	ILE	N-CA-C	-7.74	99.62	109.30
1	q	196	ILE	N-CA-C	-7.74	99.62	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	196	ILE	N-CA-C	-7.74	99.62	109.30
1	D	196	ILE	N-CA-C	-7.74	99.63	109.30
1	s	196	ILE	N-CA-C	-7.73	99.63	109.30
1	l	196	ILE	N-CA-C	-7.73	99.64	109.30
1	8	196	ILE	N-CA-C	-7.73	99.64	109.30
1	v	196	ILE	N-CA-C	-7.73	99.64	109.30
1	y	196	ILE	N-CA-C	-7.73	99.64	109.30
1	g	196	ILE	N-CA-C	-7.73	99.64	109.30
1	4	196	ILE	N-CA-C	-7.73	99.64	109.30
1	C	196	ILE	N-CA-C	-7.72	99.64	109.30
1	H	196	ILE	N-CA-C	-7.72	99.64	109.30
1	N	196	ILE	N-CA-C	-7.72	99.65	109.30
1	Q	196	ILE	N-CA-C	-7.72	99.64	109.30
1	R	196	ILE	N-CA-C	-7.72	99.64	109.30
1	k	196	ILE	N-CA-C	-7.72	99.65	109.30
1	i	196	ILE	N-CA-C	-7.72	99.65	109.30
1	2	196	ILE	N-CA-C	-7.72	99.65	109.30
1	7	196	ILE	N-CA-C	-7.72	99.65	109.30
1	G	196	ILE	N-CA-C	-7.72	99.65	109.30
1	I	196	ILE	N-CA-C	-7.72	99.65	109.30
1	O	196	ILE	N-CA-C	-7.72	99.65	109.30
1	Z	196	ILE	N-CA-C	-7.72	99.65	109.30
1	A	196	ILE	N-CA-C	-7.72	99.66	109.30
1	F	196	ILE	N-CA-C	-7.72	99.66	109.30
1	a	196	ILE	N-CA-C	-7.72	99.66	109.30
1	b	196	ILE	N-CA-C	-7.72	99.66	109.30
1	d	196	ILE	N-CA-C	-7.72	99.66	109.30
1	e	196	ILE	N-CA-C	-7.72	99.66	109.30
1	n	196	ILE	N-CA-C	-7.72	99.66	109.30
1	3	196	ILE	N-CA-C	-7.72	99.66	109.30
1	z	196	ILE	N-CA-C	-7.71	99.66	109.30
1	U	196	ILE	N-CA-C	-7.71	99.66	109.30
1	m	196	ILE	N-CA-C	-7.71	99.67	109.30
1	p	196	ILE	N-CA-C	-7.71	99.67	109.30
1	c	196	ILE	N-CA-C	-7.70	99.67	109.30
1	h	196	ILE	N-CA-C	-7.70	99.67	109.30
1	o	196	ILE	N-CA-C	-7.70	99.67	109.30
1	t	196	ILE	N-CA-C	-7.70	99.67	109.30
1	w	196	ILE	N-CA-C	-7.70	99.67	109.30
1	K	196	ILE	N-CA-C	-7.70	99.67	109.30
1	T	196	ILE	N-CA-C	-7.70	99.67	109.30
1	V	196	ILE	N-CA-C	-7.70	99.67	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	196	ILE	N-CA-C	-7.70	99.68	109.30
1	E	196	ILE	N-CA-C	-7.70	99.68	109.30
1	Y	196	ILE	N-CA-C	-7.70	99.68	109.30
1	j	196	ILE	N-CA-C	-7.70	99.68	109.30
1	5	196	ILE	N-CA-C	-7.70	99.68	109.30
1	W	196	ILE	N-CA-C	-7.69	99.68	109.30
1	6	196	ILE	N-CA-C	-7.69	99.69	109.30
1	L	196	ILE	N-CA-C	-7.68	99.69	109.30
1	u	196	ILE	N-CA-C	-7.68	99.70	109.30
1	x	196	ILE	N-CA-C	-7.68	99.70	109.30
1	Y	197	HIS	N-CA-C	5.13	116.95	111.36
1	W	197	HIS	N-CA-C	5.13	116.95	111.36
1	B	197	HIS	N-CA-C	5.12	116.94	111.36
1	K	197	HIS	N-CA-C	5.11	116.93	111.36
1	T	197	HIS	N-CA-C	5.11	116.93	111.36
1	q	197	HIS	N-CA-C	5.11	116.93	111.36
1	1	197	HIS	N-CA-C	5.11	116.93	111.36
1	j	197	HIS	N-CA-C	5.11	116.93	111.36
1	5	197	HIS	N-CA-C	5.11	116.93	111.36
1	G	197	HIS	N-CA-C	5.11	116.93	111.36
1	Z	197	HIS	N-CA-C	5.11	116.93	111.36
1	u	197	HIS	N-CA-C	5.11	116.93	111.36
1	x	197	HIS	N-CA-C	5.11	116.93	111.36
1	P	197	HIS	N-CA-C	5.10	116.92	111.36
1	E	197	HIS	N-CA-C	5.10	116.92	111.36
1	t	197	HIS	N-CA-C	5.10	116.92	111.36
1	w	197	HIS	N-CA-C	5.10	116.92	111.36
1	r	197	HIS	N-CA-C	5.10	116.92	111.36
1	J	197	HIS	N-CA-C	5.10	116.92	111.36
1	Q	197	HIS	N-CA-C	5.10	116.92	111.36
1	z	197	HIS	N-CA-C	5.10	116.92	111.36
1	s	197	HIS	N-CA-C	5.09	116.91	111.36
1	I	197	HIS	N-CA-C	5.09	116.91	111.36
1	h	197	HIS	N-CA-C	5.09	116.91	111.36
1	o	197	HIS	N-CA-C	5.09	116.91	111.36
1	R	197	HIS	N-CA-C	5.09	116.91	111.36
1	A	197	HIS	N-CA-C	5.09	116.90	111.36
1	F	197	HIS	N-CA-C	5.09	116.90	111.36
1	a	197	HIS	N-CA-C	5.09	116.90	111.36
1	b	197	HIS	N-CA-C	5.09	116.90	111.36
1	c	197	HIS	N-CA-C	5.09	116.90	111.36
1	d	197	HIS	N-CA-C	5.09	116.90	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e	197	HIS	N-CA-C	5.09	116.90	111.36
1	f	197	HIS	N-CA-C	5.09	116.90	111.36
1	n	197	HIS	N-CA-C	5.09	116.90	111.36
1	v	197	HIS	N-CA-C	5.09	116.90	111.36
1	y	197	HIS	N-CA-C	5.09	116.90	111.36
1	3	197	HIS	N-CA-C	5.09	116.90	111.36
1	M	197	HIS	N-CA-C	5.08	116.90	111.36
1	O	197	HIS	N-CA-C	5.08	116.90	111.36
1	X	197	HIS	N-CA-C	5.08	116.90	111.36
1	g	197	HIS	N-CA-C	5.08	116.90	111.36
1	S	197	HIS	N-CA-C	5.08	116.89	111.36
1	i	197	HIS	N-CA-C	5.08	116.90	111.36
1	6	197	HIS	N-CA-C	5.08	116.90	111.36
1	7	197	HIS	N-CA-C	5.08	116.90	111.36
1	k	197	HIS	N-CA-C	5.08	116.89	111.36
1	l	197	HIS	N-CA-C	5.07	116.89	111.36
1	2	197	HIS	N-CA-C	5.07	116.89	111.36
1	8	197	HIS	N-CA-C	5.07	116.89	111.36
1	4	197	HIS	N-CA-C	5.07	116.88	111.36
1	L	197	HIS	N-CA-C	5.06	116.88	111.36
1	U	197	HIS	N-CA-C	5.06	116.87	111.36
1	V	197	HIS	N-CA-C	5.05	116.86	111.36
1	m	197	HIS	N-CA-C	5.05	116.86	111.36
1	p	197	HIS	N-CA-C	5.05	116.86	111.36
1	H	197	HIS	N-CA-C	5.05	116.86	111.36
1	N	197	HIS	N-CA-C	5.05	116.86	111.36
1	D	197	HIS	N-CA-C	5.04	116.86	111.36
1	C	197	HIS	N-CA-C	5.04	116.85	111.36

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
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

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Mol	Chain	Res	Type	Group
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
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

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Mol	Chain	Res	Type	Group
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 (i)

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	146	0
1	2	4054	0	3862	144	0
1	3	4054	0	3862	148	0
1	4	4054	0	3862	151	0
1	5	4054	0	3862	152	0
1	6	4054	0	3862	149	0
1	7	4054	0	3862	148	0
1	8	4054	0	3862	150	0
1	A	4054	0	3862	151	0
1	B	4054	0	3862	147	0
1	C	4054	0	3862	153	0
1	D	4054	0	3862	146	0
1	E	4054	0	3862	151	0
1	F	4054	0	3862	148	0
1	G	4054	0	3862	148	0
1	H	4054	0	3862	152	0
1	I	4054	0	3862	147	0
1	J	4054	0	3862	145	0
1	K	4054	0	3862	150	0
1	L	4054	0	3862	150	0
1	M	4054	0	3862	151	0
1	N	4054	0	3862	150	0
1	O	4054	0	3862	147	0
1	P	4054	0	3862	148	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Q	4054	0	3862	150	0
1	R	4054	0	3862	150	0
1	S	4054	0	3862	148	0
1	T	4054	0	3862	147	0
1	U	4054	0	3862	149	0
1	V	4054	0	3862	148	0
1	W	4054	0	3862	147	0
1	X	4054	0	3862	147	0
1	Y	4054	0	3862	148	0
1	Z	4054	0	3862	151	0
1	a	4054	0	3862	150	0
1	b	4054	0	3862	148	0
1	c	4054	0	3862	147	0
1	d	4054	0	3862	146	0
1	e	4054	0	3862	148	0
1	f	4054	0	3862	146	0
1	g	4054	0	3862	149	0
1	h	4054	0	3862	150	0
1	i	4054	0	3862	151	0
1	j	4054	0	3862	147	0
1	k	4054	0	3862	148	0
1	l	4054	0	3862	145	0
1	m	4054	0	3862	147	0
1	n	4054	0	3862	148	0
1	o	4054	0	3862	147	0
1	p	4054	0	3862	147	0
1	q	4054	0	3862	148	0
1	r	4054	0	3862	146	0
1	s	4054	0	3862	149	0
1	t	4054	0	3862	147	0
1	u	4054	0	3862	146	0
1	v	4054	0	3862	152	0
1	w	4054	0	3862	152	0
1	x	4054	0	3862	149	0
1	y	4054	0	3862	148	0
1	z	4054	0	3862	146	0
All	All	243240	0	231720	7134	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 15.

All (7134) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:178:PRO:HD3	1:h:185:TRP:CD1	2.15	0.82
1:J:178:PRO:HD3	1:J:185:TRP:CD1	2.15	0.82
1:K:178:PRO:HD3	1:K:185:TRP:CD1	2.15	0.82
1:M:178:PRO:HD3	1:M:185:TRP:CD1	2.15	0.82
1:4:178:PRO:HD3	1:4:185:TRP:CD1	2.15	0.82
1:B:178:PRO:HD3	1:B:185:TRP:CD1	2.15	0.82
1:E:178:PRO:HD3	1:E:185:TRP:CD1	2.15	0.82
1:I:178:PRO:HD3	1:I:185:TRP:CD1	2.15	0.82
1:Q:178:PRO:HD3	1:Q:185:TRP:CD1	2.15	0.82
1:u:178:PRO:HD3	1:u:185:TRP:CD1	2.15	0.82
1:w:178:PRO:HD3	1:w:185:TRP:CD1	2.15	0.82
1:x:178:PRO:HD3	1:x:185:TRP:CD1	2.15	0.82
1:1:178:PRO:HD3	1:1:185:TRP:CD1	2.15	0.82
1:2:178:PRO:HD3	1:2:185:TRP:CD1	2.15	0.82
1:p:178:PRO:HD3	1:p:185:TRP:CD1	2.15	0.81
1:O:178:PRO:HD3	1:O:185:TRP:CD1	2.15	0.81
1:V:178:PRO:HD3	1:V:185:TRP:CD1	2.15	0.81
1:a:178:PRO:HD3	1:a:185:TRP:CD1	2.15	0.81
1:b:178:PRO:HD3	1:b:185:TRP:CD1	2.15	0.81
1:N:178:PRO:HD3	1:N:185:TRP:CD1	2.15	0.81
1:c:178:PRO:HD3	1:c:185:TRP:CD1	2.15	0.81
1:f:178:PRO:HD3	1:f:185:TRP:CD1	2.15	0.81
1:i:178:PRO:HD3	1:i:185:TRP:CD1	2.15	0.81
1:l:178:PRO:HD3	1:l:185:TRP:CD1	2.15	0.81
1:3:178:PRO:HD3	1:3:185:TRP:CD1	2.15	0.81
1:e:178:PRO:HD3	1:e:185:TRP:CD1	2.15	0.81
1:Y:178:PRO:HD3	1:Y:185:TRP:CD1	2.15	0.81
1:L:178:PRO:HD3	1:L:185:TRP:CD1	2.15	0.81
1:7:178:PRO:HD3	1:7:185:TRP:CD1	2.15	0.81
1:z:178:PRO:HD3	1:z:185:TRP:CD1	2.15	0.81
1:D:178:PRO:HD3	1:D:185:TRP:CD1	2.15	0.81
1:F:178:PRO:HD3	1:F:185:TRP:CD1	2.15	0.81
1:H:178:PRO:HD3	1:H:185:TRP:CD1	2.15	0.81
1:y:178:PRO:HD3	1:y:185:TRP:CD1	2.15	0.81
1:5:178:PRO:HD3	1:5:185:TRP:CD1	2.15	0.81
1:o:178:PRO:HD3	1:o:185:TRP:CD1	2.15	0.81
1:v:178:PRO:HD3	1:v:185:TRP:CD1	2.15	0.81
1:A:178:PRO:HD3	1:A:185:TRP:CD1	2.15	0.81
1:C:178:PRO:HD3	1:C:185:TRP:CD1	2.15	0.81
1:W:178:PRO:HD3	1:W:185:TRP:CD1	2.15	0.81
1:g:178:PRO:HD3	1:g:185:TRP:CD1	2.15	0.81
1:Q:129:LYS:HG2	1:Q:236:GLU:HG2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:129:LYS:HG2	1:c:236:GLU:HG2	1.64	0.80
1:x:129:LYS:HG2	1:x:236:GLU:HG2	1.64	0.80
1:B:129:LYS:HG2	1:B:236:GLU:HG2	1.63	0.80
1:D:129:LYS:HG2	1:D:236:GLU:HG2	1.63	0.80
1:M:129:LYS:HG2	1:M:236:GLU:HG2	1.64	0.80
1:P:178:PRO:HD3	1:P:185:TRP:CD1	2.15	0.80
1:S:178:PRO:HD3	1:S:185:TRP:CD1	2.15	0.80
1:X:178:PRO:HD3	1:X:185:TRP:CD1	2.15	0.80
1:d:178:PRO:HD3	1:d:185:TRP:CD1	2.15	0.80
1:h:129:LYS:HG2	1:h:236:GLU:HG2	1.64	0.80
1:k:129:LYS:HG2	1:k:236:GLU:HG2	1.63	0.80
1:k:178:PRO:HD3	1:k:185:TRP:CD1	2.15	0.80
1:1:129:LYS:HG2	1:1:236:GLU:HG2	1.64	0.80
1:G:178:PRO:HD3	1:G:185:TRP:CD1	2.15	0.80
1:R:178:PRO:HD3	1:R:185:TRP:CD1	2.15	0.80
1:V:129:LYS:HG2	1:V:236:GLU:HG2	1.63	0.80
1:e:129:LYS:HG2	1:e:236:GLU:HG2	1.64	0.80
1:n:178:PRO:HD3	1:n:185:TRP:CD1	2.15	0.80
1:s:178:PRO:HD3	1:s:185:TRP:CD1	2.15	0.80
1:v:129:LYS:HG2	1:v:236:GLU:HG2	1.64	0.80
1:6:178:PRO:HD3	1:6:185:TRP:CD1	2.15	0.80
1:A:129:LYS:HG2	1:A:236:GLU:HG2	1.64	0.80
1:K:129:LYS:HG2	1:K:236:GLU:HG2	1.64	0.80
1:T:178:PRO:HD3	1:T:185:TRP:CD1	2.15	0.80
1:Z:129:LYS:HG2	1:Z:236:GLU:HG2	1.63	0.80
1:j:178:PRO:HD3	1:j:185:TRP:CD1	2.15	0.80
1:q:178:PRO:HD3	1:q:185:TRP:CD1	2.15	0.80
1:r:178:PRO:HD3	1:r:185:TRP:CD1	2.15	0.80
1:s:129:LYS:HG2	1:s:236:GLU:HG2	1.64	0.80
1:t:178:PRO:HD3	1:t:185:TRP:CD1	2.15	0.80
1:4:129:LYS:HG2	1:4:236:GLU:HG2	1.64	0.80
1:8:129:LYS:HG2	1:8:236:GLU:HG2	1.64	0.80
1:L:129:LYS:HG2	1:L:236:GLU:HG2	1.64	0.80
1:U:129:LYS:HG2	1:U:236:GLU:HG2	1.64	0.80
1:U:178:PRO:HD3	1:U:185:TRP:CD1	2.15	0.80
1:z:129:LYS:HG2	1:z:236:GLU:HG2	1.64	0.80
1:O:129:LYS:HG2	1:O:236:GLU:HG2	1.63	0.80
1:a:129:LYS:HG2	1:a:236:GLU:HG2	1.64	0.80
1:l:129:LYS:HG2	1:l:236:GLU:HG2	1.64	0.80
1:m:178:PRO:HD3	1:m:185:TRP:CD1	2.15	0.80
1:p:129:LYS:HG2	1:p:236:GLU:HG2	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:178:PRO:HD3	1:Z:185:TRP:CD1	2.15	0.80
1:o:129:LYS:HG2	1:o:236:GLU:HG2	1.64	0.80
1:w:67:GLN:HE21	1:w:189:GLN:HB2	1.47	0.80
1:3:129:LYS:HG2	1:3:236:GLU:HG2	1.64	0.80
1:X:129:LYS:HG2	1:X:236:GLU:HG2	1.64	0.80
1:Y:67:GLN:HE21	1:Y:189:GLN:HB2	1.47	0.80
1:j:129:LYS:HG2	1:j:236:GLU:HG2	1.63	0.80
1:r:67:GLN:HE21	1:r:189:GLN:HB2	1.47	0.80
1:E:67:GLN:HE21	1:E:189:GLN:HB2	1.47	0.80
1:P:129:LYS:HG2	1:P:236:GLU:HG2	1.63	0.80
1:S:67:GLN:HE21	1:S:189:GLN:HB2	1.47	0.80
1:u:67:GLN:HE21	1:u:189:GLN:HB2	1.47	0.80
1:B:67:GLN:HE21	1:B:189:GLN:HB2	1.47	0.80
1:I:67:GLN:HE21	1:I:189:GLN:HB2	1.47	0.80
1:K:67:GLN:HE21	1:K:189:GLN:HB2	1.47	0.80
1:1:67:GLN:HE21	1:1:189:GLN:HB2	1.47	0.80
1:7:67:GLN:HE21	1:7:189:GLN:HB2	1.47	0.80
1:8:178:PRO:HD3	1:8:185:TRP:CD1	2.15	0.80
1:R:67:GLN:HE21	1:R:189:GLN:HB2	1.47	0.79
1:m:67:GLN:HE21	1:m:189:GLN:HB2	1.47	0.79
1:R:129:LYS:HG2	1:R:236:GLU:HG2	1.64	0.79
1:q:67:GLN:HE21	1:q:189:GLN:HB2	1.47	0.79
1:T:67:GLN:HE21	1:T:189:GLN:HB2	1.47	0.79
1:V:67:GLN:HE21	1:V:189:GLN:HB2	1.47	0.79
1:4:67:GLN:HE21	1:4:189:GLN:HB2	1.47	0.79
1:p:67:GLN:HE21	1:p:189:GLN:HB2	1.47	0.79
1:q:129:LYS:HG2	1:q:236:GLU:HG2	1.64	0.79
1:C:129:LYS:HG2	1:C:236:GLU:HG2	1.63	0.79
1:b:129:LYS:HG2	1:b:236:GLU:HG2	1.64	0.79
1:c:67:GLN:HE21	1:c:189:GLN:HB2	1.47	0.79
1:e:67:GLN:HE21	1:e:189:GLN:HB2	1.47	0.79
1:f:129:LYS:HG2	1:f:236:GLU:HG2	1.64	0.79
1:j:67:GLN:HE21	1:j:189:GLN:HB2	1.47	0.79
1:N:67:GLN:HE21	1:N:189:GLN:HB2	1.47	0.79
1:W:67:GLN:HE21	1:W:189:GLN:HB2	1.47	0.79
1:g:129:LYS:HG2	1:g:236:GLU:HG2	1.63	0.79
1:t:129:LYS:HG2	1:t:236:GLU:HG2	1.64	0.79
1:6:67:GLN:HE21	1:6:189:GLN:HB2	1.47	0.79
1:H:129:LYS:HG2	1:H:236:GLU:HG2	1.63	0.79
1:I:129:LYS:HG2	1:I:236:GLU:HG2	1.64	0.79
1:P:67:GLN:HE21	1:P:189:GLN:HB2	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:67:GLN:HE21	1:h:189:GLN:HB2	1.47	0.79
1:u:129:LYS:HG2	1:u:236:GLU:HG2	1.64	0.79
1:5:129:LYS:HG2	1:5:236:GLU:HG2	1.63	0.79
1:F:129:LYS:HG2	1:F:236:GLU:HG2	1.64	0.79
1:G:129:LYS:HG2	1:G:236:GLU:HG2	1.64	0.79
1:M:67:GLN:HE21	1:M:189:GLN:HB2	1.47	0.79
1:b:67:GLN:HE21	1:b:189:GLN:HB2	1.47	0.79
1:f:67:GLN:HE21	1:f:189:GLN:HB2	1.47	0.79
1:i:67:GLN:HE21	1:i:189:GLN:HB2	1.47	0.79
1:m:129:LYS:HG2	1:m:236:GLU:HG2	1.64	0.79
1:r:129:LYS:HG2	1:r:236:GLU:HG2	1.64	0.79
1:y:129:LYS:HG2	1:y:236:GLU:HG2	1.64	0.79
1:D:67:GLN:HE21	1:D:189:GLN:HB2	1.47	0.79
1:J:67:GLN:HE21	1:J:189:GLN:HB2	1.47	0.79
1:T:129:LYS:HG2	1:T:236:GLU:HG2	1.64	0.79
1:Y:129:LYS:HG2	1:Y:236:GLU:HG2	1.63	0.79
1:a:67:GLN:HE21	1:a:189:GLN:HB2	1.47	0.79
1:d:129:LYS:HG2	1:d:236:GLU:HG2	1.64	0.79
1:3:67:GLN:HE21	1:3:189:GLN:HB2	1.47	0.79
1:7:129:LYS:HG2	1:7:236:GLU:HG2	1.63	0.79
1:C:67:GLN:HE21	1:C:189:GLN:HB2	1.47	0.78
1:k:67:GLN:HE21	1:k:189:GLN:HB2	1.47	0.78
1:n:67:GLN:HE21	1:n:189:GLN:HB2	1.47	0.78
1:S:129:LYS:HG2	1:S:236:GLU:HG2	1.64	0.78
1:U:67:GLN:HE21	1:U:189:GLN:HB2	1.47	0.78
1:d:67:GLN:HE21	1:d:189:GLN:HB2	1.47	0.78
1:i:129:LYS:HG2	1:i:236:GLU:HG2	1.63	0.78
1:n:129:LYS:HG2	1:n:236:GLU:HG2	1.64	0.78
1:2:67:GLN:HE21	1:2:189:GLN:HB2	1.47	0.78
1:N:129:LYS:HG2	1:N:236:GLU:HG2	1.63	0.78
1:W:129:LYS:HG2	1:W:236:GLU:HG2	1.64	0.78
1:g:67:GLN:HE21	1:g:189:GLN:HB2	1.47	0.78
1:6:129:LYS:HG2	1:6:236:GLU:HG2	1.63	0.78
1:G:67:GLN:HE21	1:G:189:GLN:HB2	1.47	0.78
1:Z:67:GLN:HE21	1:Z:189:GLN:HB2	1.47	0.78
1:s:67:GLN:HE21	1:s:189:GLN:HB2	1.47	0.78
1:t:67:GLN:HE21	1:t:189:GLN:HB2	1.47	0.78
1:O:67:GLN:HE21	1:O:189:GLN:HB2	1.47	0.78
1:x:67:GLN:HE21	1:x:189:GLN:HB2	1.47	0.78
1:8:67:GLN:HE21	1:8:189:GLN:HB2	1.47	0.78
1:A:67:GLN:HE21	1:A:189:GLN:HB2	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:67:GLN:HE21	1:H:189:GLN:HB2	1.47	0.78
1:5:67:GLN:HE21	1:5:189:GLN:HB2	1.47	0.78
1:Q:67:GLN:HE21	1:Q:189:GLN:HB2	1.47	0.78
1:y:67:GLN:HE21	1:y:189:GLN:HB2	1.47	0.78
1:F:67:GLN:HE21	1:F:189:GLN:HB2	1.47	0.77
1:l:67:GLN:HE21	1:l:189:GLN:HB2	1.47	0.77
1:X:67:GLN:HE21	1:X:189:GLN:HB2	1.47	0.77
1:v:67:GLN:HE21	1:v:189:GLN:HB2	1.47	0.77
1:L:67:GLN:HE21	1:L:189:GLN:HB2	1.47	0.77
1:o:67:GLN:HE21	1:o:189:GLN:HB2	1.47	0.77
1:J:129:LYS:HG2	1:J:236:GLU:HG2	1.64	0.77
1:w:129:LYS:HG2	1:w:236:GLU:HG2	1.64	0.77
1:z:67:GLN:HE21	1:z:189:GLN:HB2	1.47	0.77
1:2:129:LYS:HG2	1:2:236:GLU:HG2	1.64	0.77
1:E:129:LYS:HG2	1:E:236:GLU:HG2	1.64	0.77
1:u:283:ARG:NH1	1:v:174:GLU:OE2	2.21	0.74
1:A:174:GLU:OE2	1:I:283:ARG:NH1	2.21	0.74
1:C:174:GLU:OE2	1:M:283:ARG:NH1	2.21	0.74
1:L:357:GLN:HE22	1:L:412:GLU:HG2	1.53	0.73
1:x:283:ARG:NH1	1:y:174:GLU:OE2	2.21	0.73
1:z:357:GLN:HE22	1:z:412:GLU:HG2	1.53	0.73
1:D:357:GLN:HE22	1:D:412:GLU:HG2	1.53	0.73
1:H:357:GLN:HE22	1:H:412:GLU:HG2	1.53	0.73
1:K:357:GLN:HE22	1:K:412:GLU:HG2	1.53	0.73
1:O:357:GLN:HE22	1:O:412:GLU:HG2	1.53	0.73
1:S:283:ARG:NH1	1:U:174:GLU:OE2	2.21	0.73
1:d:357:GLN:HE22	1:d:412:GLU:HG2	1.53	0.73
1:h:249:GLU:HG3	1:h:536:LYS:HD3	1.71	0.73
1:k:357:GLN:HE22	1:k:412:GLU:HG2	1.53	0.73
1:n:357:GLN:HE22	1:n:412:GLU:HG2	1.53	0.73
1:r:283:ARG:NH1	1:s:174:GLU:OE2	2.21	0.73
1:5:357:GLN:HE22	1:5:412:GLU:HG2	1.53	0.73
1:F:249:GLU:HG3	1:F:536:LYS:HD3	1.71	0.73
1:G:357:GLN:HE22	1:G:412:GLU:HG2	1.53	0.73
1:H:249:GLU:HG3	1:H:536:LYS:HD3	1.71	0.73
1:L:249:GLU:HG3	1:L:536:LYS:HD3	1.71	0.73
1:M:249:GLU:HG3	1:M:536:LYS:HD3	1.71	0.73
1:g:174:GLU:OE2	1:h:283:ARG:NH1	2.22	0.73
1:l:357:GLN:HE22	1:l:412:GLU:HG2	1.53	0.73
1:y:249:GLU:HG3	1:y:536:LYS:HD3	1.71	0.73
1:I:249:GLU:HG3	1:I:536:LYS:HD3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:283:ARG:NH1	1:L:174:GLU:OE2	2.22	0.73
1:J:494:THR:HG22	1:J:496:LEU:H	1.54	0.73
1:M:174:GLU:OE2	1:b:283:ARG:NH1	2.21	0.73
1:g:494:THR:HG22	1:g:496:LEU:H	1.54	0.73
1:z:249:GLU:HG3	1:z:536:LYS:HD3	1.71	0.73
1:2:494:THR:HG22	1:2:496:LEU:H	1.54	0.73
1:5:249:GLU:HG3	1:5:536:LYS:HD3	1.71	0.73
1:C:494:THR:HG22	1:C:496:LEU:H	1.54	0.73
1:F:174:GLU:OE2	1:Q:283:ARG:NH1	2.21	0.73
1:K:494:THR:HG22	1:K:496:LEU:H	1.54	0.73
1:b:357:GLN:HE22	1:b:412:GLU:HG2	1.53	0.73
1:f:283:ARG:NH1	1:h:174:GLU:OE2	2.21	0.73
1:j:357:GLN:HE22	1:j:412:GLU:HG2	1.53	0.73
1:t:357:GLN:HE22	1:t:412:GLU:HG2	1.53	0.73
1:u:249:GLU:HG3	1:u:536:LYS:HD3	1.71	0.73
1:z:174:GLU:OE2	1:2:283:ARG:NH1	2.22	0.73
1:4:357:GLN:HE22	1:4:412:GLU:HG2	1.53	0.73
1:D:174:GLU:OE2	1:P:283:ARG:NH1	2.22	0.73
1:P:357:GLN:HE22	1:P:412:GLU:HG2	1.53	0.73
1:X:174:GLU:OE2	1:e:283:ARG:NH1	2.21	0.73
1:Y:494:THR:HG22	1:Y:496:LEU:H	1.54	0.73
1:c:283:ARG:NH1	1:o:174:GLU:OE2	2.21	0.73
1:f:357:GLN:HE22	1:f:412:GLU:HG2	1.53	0.73
1:j:283:ARG:NH1	1:k:174:GLU:OE2	2.21	0.73
1:4:494:THR:HG22	1:4:496:LEU:H	1.54	0.73
1:5:174:GLU:OE2	1:7:283:ARG:NH1	2.22	0.73
1:7:494:THR:HG22	1:7:496:LEU:H	1.54	0.73
1:E:174:GLU:OE2	1:F:283:ARG:NH1	2.22	0.73
1:H:174:GLU:OE2	1:Y:283:ARG:NH1	2.22	0.73
1:N:283:ARG:NH1	1:P:174:GLU:OE2	2.22	0.73
1:i:283:ARG:NH1	1:j:174:GLU:OE2	2.22	0.73
1:m:494:THR:HG22	1:m:496:LEU:H	1.54	0.73
1:s:494:THR:HG22	1:s:496:LEU:H	1.54	0.73
1:t:249:GLU:HG3	1:t:536:LYS:HD3	1.71	0.73
1:B:249:GLU:HG3	1:B:536:LYS:HD3	1.71	0.73
1:G:249:GLU:HG3	1:G:536:LYS:HD3	1.71	0.73
1:O:494:THR:HG22	1:O:496:LEU:H	1.54	0.73
1:S:494:THR:HG22	1:S:496:LEU:H	1.54	0.73
1:T:249:GLU:HG3	1:T:536:LYS:HD3	1.71	0.73
1:T:494:THR:HG22	1:T:496:LEU:H	1.54	0.73
1:d:249:GLU:HG3	1:d:536:LYS:HD3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:249:GLU:HG3	1:m:536:LYS:HD3	1.71	0.73
1:n:249:GLU:HG3	1:n:536:LYS:HD3	1.71	0.73
1:r:494:THR:HG22	1:r:496:LEU:H	1.54	0.73
1:1:249:GLU:HG3	1:1:536:LYS:HD3	1.71	0.73
1:G:283:ARG:NH1	1:I:174:GLU:OE2	2.22	0.73
1:J:357:GLN:HE22	1:J:412:GLU:HG2	1.53	0.73
1:U:494:THR:HG22	1:U:496:LEU:H	1.54	0.73
1:2:357:GLN:HE22	1:2:412:GLU:HG2	1.53	0.73
1:P:249:GLU:HG3	1:P:536:LYS:HD3	1.71	0.73
1:j:249:GLU:HG3	1:j:536:LYS:HD3	1.71	0.73
1:l:494:THR:HG22	1:l:496:LEU:H	1.54	0.73
1:t:283:ARG:NH1	1:u:174:GLU:OE2	2.22	0.73
1:C:357:GLN:HE22	1:C:412:GLU:HG2	1.53	0.72
1:D:283:ARG:NH1	1:N:174:GLU:OE2	2.22	0.72
1:R:494:THR:HG22	1:R:496:LEU:H	1.54	0.72
1:V:249:GLU:HG3	1:V:536:LYS:HD3	1.71	0.72
1:c:357:GLN:HE22	1:c:412:GLU:HG2	1.53	0.72
1:e:357:GLN:HE22	1:e:412:GLU:HG2	1.53	0.72
1:w:174:GLU:OE2	1:y:283:ARG:NH1	2.22	0.72
1:I:357:GLN:HE22	1:I:412:GLU:HG2	1.53	0.72
1:J:249:GLU:HG3	1:J:536:LYS:HD3	1.71	0.72
1:T:283:ARG:NH1	1:d:174:GLU:OE2	2.23	0.72
1:h:494:THR:HG22	1:h:496:LEU:H	1.54	0.72
1:i:174:GLU:OE2	1:k:283:ARG:NH1	2.23	0.72
1:m:283:ARG:NH1	1:n:174:GLU:OE2	2.23	0.72
1:n:494:THR:HG22	1:n:496:LEU:H	1.54	0.72
1:q:249:GLU:HG3	1:q:536:LYS:HD3	1.71	0.72
1:q:494:THR:HG22	1:q:496:LEU:H	1.54	0.72
1:w:494:THR:HG22	1:w:496:LEU:H	1.54	0.72
1:6:357:GLN:HE22	1:6:412:GLU:HG2	1.53	0.72
1:6:494:THR:HG22	1:6:496:LEU:H	1.54	0.72
1:8:357:GLN:HE22	1:8:412:GLU:HG2	1.53	0.72
1:K:249:GLU:HG3	1:K:536:LYS:HD3	1.71	0.72
1:M:494:THR:HG22	1:M:496:LEU:H	1.54	0.72
1:V:283:ARG:NH1	1:e:174:GLU:OE2	2.22	0.72
1:Z:283:ARG:NH1	1:4:174:GLU:OE2	2.22	0.72
1:g:357:GLN:HE22	1:g:412:GLU:HG2	1.53	0.72
1:o:249:GLU:HG3	1:o:536:LYS:HD3	1.71	0.72
1:o:283:ARG:NH1	1:p:174:GLU:OE2	2.22	0.72
1:u:357:GLN:HE22	1:u:412:GLU:HG2	1.53	0.72
1:4:249:GLU:HG3	1:4:536:LYS:HD3	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:357:GLN:HE22	1:A:412:GLU:HG2	1.53	0.72
1:B:357:GLN:HE22	1:B:412:GLU:HG2	1.53	0.72
1:E:494:THR:HG22	1:E:496:LEU:H	1.54	0.72
1:R:249:GLU:HG3	1:R:536:LYS:HD3	1.71	0.72
1:V:174:GLU:OE2	1:X:283:ARG:NH1	2.22	0.72
1:W:283:ARG:NH1	1:Y:174:GLU:OE2	2.23	0.72
1:W:357:GLN:HE22	1:W:412:GLU:HG2	1.53	0.72
1:W:494:THR:HG22	1:W:496:LEU:H	1.54	0.72
1:Z:357:GLN:HE22	1:Z:412:GLU:HG2	1.53	0.72
1:Z:494:THR:HG22	1:Z:496:LEU:H	1.54	0.72
1:d:494:THR:HG22	1:d:496:LEU:H	1.54	0.72
1:k:494:THR:HG22	1:k:496:LEU:H	1.54	0.72
1:p:249:GLU:HG3	1:p:536:LYS:HD3	1.71	0.72
1:1:357:GLN:HE22	1:1:412:GLU:HG2	1.53	0.72
1:2:249:GLU:HG3	1:2:536:LYS:HD3	1.71	0.72
1:6:283:ARG:NH1	1:7:174:GLU:OE2	2.23	0.72
1:A:249:GLU:HG3	1:A:536:LYS:HD3	1.71	0.72
1:C:283:ARG:NH1	1:b:174:GLU:OE2	2.22	0.72
1:K:174:GLU:OE2	1:8:283:ARG:NH1	2.23	0.72
1:c:174:GLU:OE2	1:p:283:ARG:NH1	2.22	0.72
1:C:249:GLU:HG3	1:C:536:LYS:HD3	1.71	0.72
1:K:283:ARG:NH1	1:a:174:GLU:OE2	2.22	0.72
1:S:357:GLN:HE22	1:S:412:GLU:HG2	1.53	0.72
1:X:249:GLU:HG3	1:X:536:LYS:HD3	1.71	0.72
1:o:357:GLN:HE22	1:o:412:GLU:HG2	1.53	0.72
1:o:494:THR:HG22	1:o:496:LEU:H	1.54	0.72
1:r:249:GLU:HG3	1:r:536:LYS:HD3	1.71	0.72
1:v:249:GLU:HG3	1:v:536:LYS:HD3	1.71	0.72
1:v:357:GLN:HE22	1:v:412:GLU:HG2	1.53	0.72
1:5:283:ARG:NH1	1:6:174:GLU:OE2	2.21	0.72
1:8:494:THR:HG22	1:8:496:LEU:H	1.54	0.72
1:D:494:THR:HG22	1:D:496:LEU:H	1.54	0.72
1:E:357:GLN:HE22	1:E:412:GLU:HG2	1.53	0.72
1:R:283:ARG:NH1	1:S:174:GLU:OE2	2.22	0.72
1:S:249:GLU:HG3	1:S:536:LYS:HD3	1.71	0.72
1:g:249:GLU:HG3	1:g:536:LYS:HD3	1.71	0.72
1:q:174:GLU:OE2	1:s:283:ARG:NH1	2.22	0.72
1:F:494:THR:HG22	1:F:496:LEU:H	1.54	0.72
1:L:494:THR:HG22	1:L:496:LEU:H	1.54	0.72
1:U:357:GLN:HE22	1:U:412:GLU:HG2	1.53	0.72
1:X:357:GLN:HE22	1:X:412:GLU:HG2	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:494:THR:HG22	1:X:496:LEU:H	1.54	0.72
1:a:494:THR:HG22	1:a:496:LEU:H	1.54	0.72
1:q:283:ARG:NH1	1:r:174:GLU:OE2	2.22	0.72
1:r:357:GLN:HE22	1:r:412:GLU:HG2	1.53	0.72
1:s:357:GLN:HE22	1:s:412:GLU:HG2	1.54	0.72
1:7:357:GLN:HE22	1:7:412:GLU:HG2	1.53	0.72
1:N:357:GLN:HE22	1:N:412:GLU:HG2	1.53	0.72
1:R:174:GLU:OE2	1:U:283:ARG:NH1	2.23	0.72
1:c:494:THR:HG22	1:c:496:LEU:H	1.54	0.72
1:e:494:THR:HG22	1:e:496:LEU:H	1.54	0.72
1:f:174:GLU:OE2	1:g:283:ARG:NH1	2.23	0.72
1:h:357:GLN:HE22	1:h:412:GLU:HG2	1.53	0.72
1:z:494:THR:HG22	1:z:496:LEU:H	1.54	0.72
1:B:174:GLU:OE2	1:L:283:ARG:NH1	2.23	0.72
1:H:283:ARG:NH1	1:W:174:GLU:OE2	2.22	0.72
1:M:357:GLN:HE22	1:M:412:GLU:HG2	1.53	0.72
1:W:249:GLU:HG3	1:W:536:LYS:HD3	1.71	0.72
1:Y:357:GLN:HE22	1:Y:412:GLU:HG2	1.53	0.72
1:i:357:GLN:HE22	1:i:412:GLU:HG2	1.53	0.72
1:j:494:THR:HG22	1:j:496:LEU:H	1.54	0.72
1:t:174:GLU:OE2	1:v:283:ARG:NH1	2.22	0.72
1:t:494:THR:HG22	1:t:496:LEU:H	1.54	0.72
1:w:249:GLU:HG3	1:w:536:LYS:HD3	1.71	0.72
1:A:283:ARG:NH1	1:G:174:GLU:OE2	2.22	0.71
1:D:249:GLU:HG3	1:D:536:LYS:HD3	1.71	0.71
1:E:249:GLU:HG3	1:E:536:LYS:HD3	1.71	0.71
1:O:283:ARG:NH1	1:m:174:GLU:OE2	2.23	0.71
1:P:494:THR:HG22	1:P:496:LEU:H	1.54	0.71
1:Y:249:GLU:HG3	1:Y:536:LYS:HD3	1.71	0.71
1:a:283:ARG:NH1	1:8:174:GLU:OE2	2.22	0.71
1:i:249:GLU:HG3	1:i:536:LYS:HD3	1.71	0.71
1:k:249:GLU:HG3	1:k:536:LYS:HD3	1.71	0.71
1:p:357:GLN:HE22	1:p:412:GLU:HG2	1.53	0.71
1:w:357:GLN:HE22	1:w:412:GLU:HG2	1.53	0.71
1:y:494:THR:HG22	1:y:496:LEU:H	1.54	0.71
1:3:494:THR:HG22	1:3:496:LEU:H	1.54	0.71
1:6:249:GLU:HG3	1:6:536:LYS:HD3	1.71	0.71
1:E:283:ARG:NH1	1:Q:174:GLU:OE2	2.22	0.71
1:N:249:GLU:HG3	1:N:536:LYS:HD3	1.71	0.71
1:O:174:GLU:OE2	1:n:283:ARG:NH1	2.22	0.71
1:O:249:GLU:HG3	1:O:536:LYS:HD3	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:249:GLU:HG3	1:Q:536:LYS:HD3	1.71	0.71
1:T:174:GLU:OE2	1:l:283:ARG:NH1	2.23	0.71
1:a:249:GLU:HG3	1:a:536:LYS:HD3	1.71	0.71
1:e:249:GLU:HG3	1:e:536:LYS:HD3	1.71	0.71
1:w:283:ARG:NH1	1:x:174:GLU:OE2	2.22	0.71
1:x:494:THR:HG22	1:x:496:LEU:H	1.54	0.71
1:z:283:ARG:NH1	1:1:174:GLU:OE2	2.23	0.71
1:3:249:GLU:HG3	1:3:536:LYS:HD3	1.71	0.71
1:7:249:GLU:HG3	1:7:536:LYS:HD3	1.71	0.71
1:B:494:THR:HG22	1:B:496:LEU:H	1.54	0.71
1:G:494:THR:HG22	1:G:496:LEU:H	1.54	0.71
1:Q:357:GLN:HE22	1:Q:412:GLU:HG2	1.53	0.71
1:Q:494:THR:HG22	1:Q:496:LEU:H	1.54	0.71
1:R:357:GLN:HE22	1:R:412:GLU:HG2	1.53	0.71
1:U:249:GLU:HG3	1:U:536:LYS:HD3	1.71	0.71
1:Z:174:GLU:OE2	1:3:283:ARG:NH1	2.22	0.71
1:d:283:ARG:NH1	1:l:174:GLU:OE2	2.22	0.71
1:m:357:GLN:HE22	1:m:412:GLU:HG2	1.53	0.71
1:s:249:GLU:HG3	1:s:536:LYS:HD3	1.71	0.71
1:T:357:GLN:HE22	1:T:412:GLU:HG2	1.53	0.71
1:V:494:THR:HG22	1:V:496:LEU:H	1.54	0.71
1:Z:249:GLU:HG3	1:Z:536:LYS:HD3	1.71	0.71
1:b:249:GLU:HG3	1:b:536:LYS:HD3	1.71	0.71
1:l:249:GLU:HG3	1:l:536:LYS:HD3	1.71	0.71
1:v:494:THR:HG22	1:v:496:LEU:H	1.54	0.71
1:x:357:GLN:HE22	1:x:412:GLU:HG2	1.53	0.71
1:A:494:THR:HG22	1:A:496:LEU:H	1.54	0.71
1:B:283:ARG:NH1	1:J:174:GLU:OE2	2.22	0.71
1:V:357:GLN:HE22	1:V:412:GLU:HG2	1.53	0.71
1:c:249:GLU:HG3	1:c:536:LYS:HD3	1.71	0.71
1:q:357:GLN:HE22	1:q:412:GLU:HG2	1.53	0.71
1:x:249:GLU:HG3	1:x:536:LYS:HD3	1.71	0.71
1:1:283:ARG:NH1	1:2:174:GLU:OE2	2.22	0.71
1:8:249:GLU:HG3	1:8:536:LYS:HD3	1.71	0.71
1:1:494:THR:HG22	1:1:496:LEU:H	1.54	0.71
1:F:357:GLN:HE22	1:F:412:GLU:HG2	1.53	0.71
1:f:249:GLU:HG3	1:f:536:LYS:HD3	1.71	0.71
1:p:494:THR:HG22	1:p:496:LEU:H	1.54	0.71
1:H:494:THR:HG22	1:H:496:LEU:H	1.54	0.71
1:y:357:GLN:HE22	1:y:412:GLU:HG2	1.53	0.71
1:5:494:THR:HG22	1:5:496:LEU:H	1.54	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:357:GLN:HE22	1:a:412:GLU:HG2	1.53	0.70
1:3:357:GLN:HE22	1:3:412:GLU:HG2	1.53	0.70
1:f:494:THR:HG22	1:f:496:LEU:H	1.54	0.70
1:u:494:THR:HG22	1:u:496:LEU:H	1.54	0.70
1:V:208:VAL:HG21	1:V:323:GLY:HA3	1.74	0.70
1:c:208:VAL:HG21	1:c:323:GLY:HA3	1.74	0.70
1:e:208:VAL:HG21	1:e:323:GLY:HA3	1.74	0.70
1:k:208:VAL:HG21	1:k:323:GLY:HA3	1.74	0.70
1:p:208:VAL:HG21	1:p:323:GLY:HA3	1.74	0.70
1:N:494:THR:HG22	1:N:496:LEU:H	1.54	0.70
1:b:494:THR:HG22	1:b:496:LEU:H	1.54	0.70
1:s:208:VAL:HG21	1:s:323:GLY:HA3	1.74	0.70
1:t:208:VAL:HG21	1:t:323:GLY:HA3	1.74	0.70
1:D:208:VAL:HG21	1:D:323:GLY:HA3	1.74	0.70
1:G:208:VAL:HG21	1:G:323:GLY:HA3	1.74	0.70
1:I:494:THR:HG22	1:I:496:LEU:H	1.54	0.70
1:J:208:VAL:HG21	1:J:323:GLY:HA3	1.74	0.70
1:a:208:VAL:HG21	1:a:323:GLY:HA3	1.74	0.70
1:P:208:VAL:HG21	1:P:323:GLY:HA3	1.74	0.70
1:i:494:THR:HG22	1:i:496:LEU:H	1.54	0.70
1:j:208:VAL:HG21	1:j:323:GLY:HA3	1.74	0.70
1:2:208:VAL:HG21	1:2:323:GLY:HA3	1.74	0.70
1:3:174:GLU:OE2	1:4:283:ARG:NH1	2.25	0.70
1:3:208:VAL:HG21	1:3:323:GLY:HA3	1.74	0.70
1:4:208:VAL:HG21	1:4:323:GLY:HA3	1.74	0.70
1:H:208:VAL:HG21	1:H:323:GLY:HA3	1.74	0.70
1:K:208:VAL:HG21	1:K:323:GLY:HA3	1.74	0.70
1:U:208:VAL:HG21	1:U:323:GLY:HA3	1.74	0.70
1:m:208:VAL:HG21	1:m:323:GLY:HA3	1.74	0.70
1:N:208:VAL:HG21	1:N:323:GLY:HA3	1.74	0.69
1:T:208:VAL:HG21	1:T:323:GLY:HA3	1.74	0.69
1:5:208:VAL:HG21	1:5:323:GLY:HA3	1.74	0.69
1:i:208:VAL:HG21	1:i:323:GLY:HA3	1.74	0.69
1:6:208:VAL:HG21	1:6:323:GLY:HA3	1.74	0.69
1:B:383:TYR:HB3	1:B:390:TYR:HB3	1.75	0.69
1:B:492:ARG:H	1:I:494:THR:HG23	1.57	0.69
1:K:383:TYR:HB3	1:K:390:TYR:HB3	1.75	0.69
1:Q:208:VAL:HG21	1:Q:323:GLY:HA3	1.74	0.69
1:W:383:TYR:HB3	1:W:390:TYR:HB3	1.75	0.69
1:b:208:VAL:HG21	1:b:323:GLY:HA3	1.74	0.69
1:f:208:VAL:HG21	1:f:323:GLY:HA3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:494:THR:HG23	1:k:492:ARG:H	1.58	0.69
1:w:208:VAL:HG21	1:w:323:GLY:HA3	1.74	0.69
1:x:208:VAL:HG21	1:x:323:GLY:HA3	1.74	0.69
1:1:383:TYR:HB3	1:1:390:TYR:HB3	1.75	0.69
1:A:208:VAL:HG21	1:A:323:GLY:HA3	1.74	0.69
1:D:492:ARG:H	1:M:494:THR:HG23	1.58	0.69
1:E:208:VAL:HG21	1:E:323:GLY:HA3	1.74	0.69
1:L:208:VAL:HG21	1:L:323:GLY:HA3	1.74	0.69
1:W:208:VAL:HG21	1:W:323:GLY:HA3	1.74	0.69
1:v:208:VAL:HG21	1:v:323:GLY:HA3	1.74	0.69
1:y:383:TYR:HB3	1:y:390:TYR:HB3	1.75	0.69
1:4:383:TYR:HB3	1:4:390:TYR:HB3	1.75	0.69
1:8:208:VAL:HG21	1:8:323:GLY:HA3	1.74	0.69
1:E:494:THR:HG23	1:P:492:ARG:H	1.58	0.69
1:F:383:TYR:HB3	1:F:390:TYR:HB3	1.75	0.69
1:I:208:VAL:HG21	1:I:323:GLY:HA3	1.74	0.69
1:Y:383:TYR:HB3	1:Y:390:TYR:HB3	1.75	0.69
1:Z:208:VAL:HG21	1:Z:323:GLY:HA3	1.74	0.69
1:i:492:ARG:H	1:l:494:THR:HG23	1.57	0.69
1:u:494:THR:HG23	1:1:492:ARG:H	1.58	0.69
1:z:208:VAL:HG21	1:z:323:GLY:HA3	1.74	0.69
1:6:383:TYR:HB3	1:6:390:TYR:HB3	1.75	0.69
1:7:383:TYR:HB3	1:7:390:TYR:HB3	1.75	0.69
1:7:492:ARG:H	1:8:494:THR:HG23	1.57	0.69
1:A:492:ARG:H	1:F:494:THR:HG23	1.57	0.69
1:O:178:PRO:HD3	1:O:185:TRP:HD1	1.58	0.69
1:b:494:THR:HG23	1:c:492:ARG:H	1.58	0.69
1:n:208:VAL:HG21	1:n:323:GLY:HA3	1.74	0.69
1:o:383:TYR:HB3	1:o:390:TYR:HB3	1.75	0.69
1:q:383:TYR:HB3	1:q:390:TYR:HB3	1.75	0.69
1:u:383:TYR:HB3	1:u:390:TYR:HB3	1.75	0.69
1:E:492:ARG:H	1:P:494:THR:HG23	1.57	0.69
1:I:383:TYR:HB3	1:I:390:TYR:HB3	1.75	0.69
1:J:492:ARG:H	1:K:494:THR:HG23	1.58	0.69
1:N:492:ARG:H	1:O:494:THR:HG23	1.57	0.69
1:R:383:TYR:HB3	1:R:390:TYR:HB3	1.75	0.69
1:V:178:PRO:HD3	1:V:185:TRP:HD1	1.58	0.69
1:X:383:TYR:HB3	1:X:390:TYR:HB3	1.75	0.69
1:b:178:PRO:HD3	1:b:185:TRP:HD1	1.58	0.69
1:f:178:PRO:HD3	1:f:185:TRP:HD1	1.58	0.69
1:p:494:THR:HG23	1:s:492:ARG:H	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:208:VAL:HG21	1:u:323:GLY:HA3	1.74	0.69
1:F:208:VAL:HG21	1:F:323:GLY:HA3	1.74	0.69
1:L:178:PRO:HD3	1:L:185:TRP:HD1	1.58	0.69
1:R:208:VAL:HG21	1:R:323:GLY:HA3	1.74	0.69
1:T:383:TYR:HB3	1:T:390:TYR:HB3	1.75	0.69
1:U:492:ARG:H	1:V:494:THR:HG23	1.58	0.69
1:U:494:THR:HG23	1:V:492:ARG:H	1.57	0.69
1:Y:492:ARG:H	1:Z:494:THR:HG23	1.57	0.69
1:Z:178:PRO:HD3	1:Z:185:TRP:HD1	1.58	0.69
1:b:383:TYR:HB3	1:b:390:TYR:HB3	1.75	0.69
1:d:178:PRO:HD3	1:d:185:TRP:HD1	1.58	0.69
1:d:208:VAL:HG21	1:d:323:GLY:HA3	1.74	0.69
1:e:492:ARG:H	1:f:494:THR:HG23	1.58	0.69
1:f:383:TYR:HB3	1:f:390:TYR:HB3	1.75	0.69
1:j:492:ARG:H	1:w:494:THR:HG23	1.58	0.69
1:l:178:PRO:HD3	1:l:185:TRP:HD1	1.58	0.69
1:m:383:TYR:HB3	1:m:390:TYR:HB3	1.75	0.69
1:n:178:PRO:HD3	1:n:185:TRP:HD1	1.58	0.69
1:o:208:VAL:HG21	1:o:323:GLY:HA3	1.74	0.69
1:p:178:PRO:HD3	1:p:185:TRP:HD1	1.58	0.69
1:p:492:ARG:H	1:s:494:THR:HG23	1.58	0.69
1:7:208:VAL:HG21	1:7:323:GLY:HA3	1.74	0.69
1:A:494:THR:HG23	1:F:492:ARG:H	1.58	0.69
1:O:383:TYR:HB3	1:O:390:TYR:HB3	1.75	0.69
1:X:208:VAL:HG21	1:X:323:GLY:HA3	1.74	0.69
1:g:178:PRO:HD3	1:g:185:TRP:HD1	1.58	0.69
1:l:383:TYR:HB3	1:l:390:TYR:HB3	1.75	0.69
1:n:383:TYR:HB3	1:n:390:TYR:HB3	1.75	0.69
1:q:208:VAL:HG21	1:q:323:GLY:HA3	1.74	0.69
1:y:208:VAL:HG21	1:y:323:GLY:HA3	1.74	0.69
1:2:383:TYR:HB3	1:2:390:TYR:HB3	1.75	0.69
1:8:178:PRO:HD3	1:8:185:TRP:HD1	1.58	0.69
1:C:178:PRO:HD3	1:C:185:TRP:HD1	1.58	0.69
1:L:383:TYR:HB3	1:L:390:TYR:HB3	1.75	0.69
1:N:178:PRO:HD3	1:N:185:TRP:HD1	1.58	0.69
1:Y:208:VAL:HG21	1:Y:323:GLY:HA3	1.74	0.69
1:c:383:TYR:HB3	1:c:390:TYR:HB3	1.75	0.69
1:g:208:VAL:HG21	1:g:323:GLY:HA3	1.74	0.69
1:v:492:ARG:H	1:y:494:THR:HG23	1.58	0.69
1:z:383:TYR:HB3	1:z:390:TYR:HB3	1.75	0.69
1:J:383:TYR:HB3	1:J:390:TYR:HB3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:208:VAL:HG21	1:M:323:GLY:HA3	1.74	0.68
1:d:383:TYR:HB3	1:d:390:TYR:HB3	1.75	0.68
1:e:383:TYR:HB3	1:e:390:TYR:HB3	1.75	0.68
1:h:208:VAL:HG21	1:h:323:GLY:HA3	1.74	0.68
1:i:178:PRO:HD3	1:i:185:TRP:HD1	1.58	0.68
1:j:494:THR:HG23	1:w:492:ARG:H	1.57	0.68
1:r:208:VAL:HG21	1:r:323:GLY:HA3	1.74	0.68
1:v:494:THR:HG23	1:y:492:ARG:H	1.58	0.68
1:C:208:VAL:HG21	1:C:323:GLY:HA3	1.74	0.68
1:C:383:TYR:HB3	1:C:390:TYR:HB3	1.75	0.68
1:P:68:ASN:ND2	1:P:71:LYS:O	2.27	0.68
1:Q:492:ARG:H	1:R:494:THR:HG23	1.58	0.68
1:R:68:ASN:ND2	1:R:71:LYS:O	2.27	0.68
1:g:383:TYR:HB3	1:g:390:TYR:HB3	1.75	0.68
1:i:68:ASN:ND2	1:i:71:LYS:O	2.27	0.68
1:q:494:THR:HG23	1:x:492:ARG:H	1.58	0.68
1:t:492:ARG:H	1:5:494:THR:HG23	1.57	0.68
1:z:178:PRO:HD3	1:z:185:TRP:HD1	1.58	0.68
1:H:383:TYR:HB3	1:H:390:TYR:HB3	1.75	0.68
1:L:68:ASN:ND2	1:L:71:LYS:O	2.27	0.68
1:M:68:ASN:ND2	1:M:71:LYS:O	2.27	0.68
1:N:68:ASN:ND2	1:N:71:LYS:O	2.27	0.68
1:S:178:PRO:HD3	1:S:185:TRP:HD1	1.58	0.68
1:S:208:VAL:HG21	1:S:323:GLY:HA3	1.74	0.68
1:h:68:ASN:ND2	1:h:71:LYS:O	2.27	0.68
1:i:383:TYR:HB3	1:i:390:TYR:HB3	1.75	0.68
1:j:68:ASN:ND2	1:j:71:LYS:O	2.27	0.68
1:j:383:TYR:HB3	1:j:390:TYR:HB3	1.75	0.68
1:o:492:ARG:H	1:6:494:THR:HG23	1.58	0.68
1:q:68:ASN:ND2	1:q:71:LYS:O	2.27	0.68
1:5:383:TYR:HB3	1:5:390:TYR:HB3	1.75	0.68
1:B:68:ASN:ND2	1:B:71:LYS:O	2.27	0.68
1:B:208:VAL:HG21	1:B:323:GLY:HA3	1.74	0.68
1:E:68:ASN:ND2	1:E:71:LYS:O	2.27	0.68
1:G:492:ARG:H	1:H:494:THR:HG23	1.57	0.68
1:I:68:ASN:ND2	1:I:71:LYS:O	2.27	0.68
1:Q:68:ASN:ND2	1:Q:71:LYS:O	2.27	0.68
1:Q:494:THR:HG23	1:R:492:ARG:H	1.58	0.68
1:W:494:THR:HG23	1:X:492:ARG:H	1.58	0.68
1:c:68:ASN:ND2	1:c:71:LYS:O	2.27	0.68
1:e:494:THR:HG23	1:f:492:ARG:H	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:68:ASN:ND2	1:r:71:LYS:O	2.27	0.68
1:r:178:PRO:HD3	1:r:185:TRP:HD1	1.58	0.68
1:u:68:ASN:ND2	1:u:71:LYS:O	2.27	0.68
1:v:68:ASN:ND2	1:v:71:LYS:O	2.27	0.68
1:w:68:ASN:ND2	1:w:71:LYS:O	2.27	0.68
1:w:383:TYR:HB3	1:w:390:TYR:HB3	1.75	0.68
1:x:68:ASN:ND2	1:x:71:LYS:O	2.27	0.68
1:z:68:ASN:ND2	1:z:71:LYS:O	2.27	0.68
1:1:68:ASN:ND2	1:1:71:LYS:O	2.27	0.68
1:6:68:ASN:ND2	1:6:71:LYS:O	2.27	0.68
1:8:68:ASN:ND2	1:8:71:LYS:O	2.27	0.68
1:A:68:ASN:ND2	1:A:71:LYS:O	2.27	0.68
1:J:494:THR:HG23	1:K:492:ARG:H	1.58	0.68
1:K:178:PRO:HD3	1:K:185:TRP:HD1	1.58	0.68
1:N:383:TYR:HB3	1:N:390:TYR:HB3	1.75	0.68
1:P:383:TYR:HB3	1:P:390:TYR:HB3	1.75	0.68
1:S:68:ASN:ND2	1:S:71:LYS:O	2.27	0.68
1:W:68:ASN:ND2	1:W:71:LYS:O	2.27	0.68
1:W:492:ARG:H	1:X:494:THR:HG23	1.58	0.68
1:Z:68:ASN:ND2	1:Z:71:LYS:O	2.27	0.68
1:d:68:ASN:ND2	1:d:71:LYS:O	2.27	0.68
1:e:68:ASN:ND2	1:e:71:LYS:O	2.27	0.68
1:k:68:ASN:ND2	1:k:71:LYS:O	2.27	0.68
1:n:68:ASN:ND2	1:n:71:LYS:O	2.27	0.68
1:o:494:THR:HG23	1:6:492:ARG:H	1.58	0.68
1:1:208:VAL:HG21	1:1:323:GLY:HA3	1.74	0.68
1:8:383:TYR:HB3	1:8:390:TYR:HB3	1.75	0.68
1:D:68:ASN:ND2	1:D:71:LYS:O	2.27	0.68
1:E:383:TYR:HB3	1:E:390:TYR:HB3	1.75	0.68
1:K:68:ASN:ND2	1:K:71:LYS:O	2.27	0.68
1:P:406:ARG:NH2	1:P:434:THR:O	2.27	0.68
1:S:492:ARG:H	1:T:494:THR:HG23	1.58	0.68
1:U:68:ASN:ND2	1:U:71:LYS:O	2.27	0.68
1:W:178:PRO:HD3	1:W:185:TRP:HD1	1.58	0.68
1:Z:383:TYR:HB3	1:Z:390:TYR:HB3	1.75	0.68
1:a:383:TYR:HB3	1:a:390:TYR:HB3	1.75	0.68
1:a:494:THR:HG23	1:3:492:ARG:H	1.58	0.68
1:b:492:ARG:H	1:c:494:THR:HG23	1.58	0.68
1:c:406:ARG:NH2	1:c:434:THR:O	2.27	0.68
1:e:406:ARG:NH2	1:e:434:THR:O	2.27	0.68
1:j:406:ARG:NH2	1:j:434:THR:O	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:492:ARG:H	1:x:494:THR:HG23	1.58	0.68
1:s:178:PRO:HD3	1:s:185:TRP:HD1	1.58	0.68
1:u:492:ARG:H	1:1:494:THR:HG23	1.58	0.68
1:E:406:ARG:NH2	1:E:434:THR:O	2.27	0.68
1:I:406:ARG:NH2	1:I:434:THR:O	2.27	0.68
1:K:406:ARG:NH2	1:K:434:THR:O	2.27	0.68
1:S:406:ARG:NH2	1:S:434:THR:O	2.27	0.68
1:a:492:ARG:H	1:3:494:THR:HG23	1.58	0.68
1:g:492:ARG:H	1:z:494:THR:HG23	1.57	0.68
1:h:178:PRO:HD3	1:h:185:TRP:HD1	1.58	0.68
1:l:406:ARG:NH2	1:l:434:THR:O	2.27	0.68
1:m:494:THR:HG23	1:r:492:ARG:H	1.58	0.68
1:r:406:ARG:NH2	1:r:434:THR:O	2.27	0.68
1:s:68:ASN:ND2	1:s:71:LYS:O	2.27	0.68
1:w:406:ARG:NH2	1:w:434:THR:O	2.27	0.68
1:4:68:ASN:ND2	1:4:71:LYS:O	2.27	0.68
1:4:178:PRO:HD3	1:4:185:TRP:HD1	1.58	0.68
1:4:406:ARG:NH2	1:4:434:THR:O	2.27	0.68
1:6:178:PRO:HD3	1:6:185:TRP:HD1	1.58	0.68
1:B:494:THR:HG23	1:I:492:ARG:H	1.58	0.68
1:N:406:ARG:NH2	1:N:434:THR:O	2.27	0.68
1:N:494:THR:HG23	1:O:492:ARG:H	1.58	0.68
1:O:208:VAL:HG21	1:O:323:GLY:HA3	1.74	0.68
1:O:406:ARG:NH2	1:O:434:THR:O	2.27	0.68
1:Y:494:THR:HG23	1:Z:492:ARG:H	1.58	0.68
1:a:68:ASN:ND2	1:a:71:LYS:O	2.27	0.68
1:i:406:ARG:NH2	1:i:434:THR:O	2.27	0.68
1:u:406:ARG:NH2	1:u:434:THR:O	2.27	0.68
1:3:383:TYR:HB3	1:3:390:TYR:HB3	1.75	0.68
1:A:178:PRO:HD3	1:A:185:TRP:HD1	1.58	0.68
1:D:383:TYR:HB3	1:D:390:TYR:HB3	1.75	0.68
1:G:406:ARG:NH2	1:G:434:THR:O	2.27	0.68
1:H:406:ARG:NH2	1:H:434:THR:O	2.27	0.68
1:R:178:PRO:HD3	1:R:185:TRP:HD1	1.58	0.68
1:S:494:THR:HG23	1:T:492:ARG:H	1.58	0.68
1:V:383:TYR:HB3	1:V:390:TYR:HB3	1.75	0.68
1:X:406:ARG:NH2	1:X:434:THR:O	2.27	0.68
1:d:492:ARG:H	1:n:494:THR:HG23	1.58	0.68
1:g:68:ASN:ND2	1:g:71:LYS:O	2.27	0.68
1:l:208:VAL:HG21	1:l:323:GLY:HA3	1.74	0.68
1:o:406:ARG:NH2	1:o:434:THR:O	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:383:TYR:HB3	1:p:390:TYR:HB3	1.75	0.68
1:t:68:ASN:ND2	1:t:71:LYS:O	2.27	0.68
1:t:383:TYR:HB3	1:t:390:TYR:HB3	1.75	0.68
1:3:68:ASN:ND2	1:3:71:LYS:O	2.27	0.68
1:C:68:ASN:ND2	1:C:71:LYS:O	2.27	0.68
1:G:68:ASN:ND2	1:G:71:LYS:O	2.27	0.68
1:G:383:TYR:HB3	1:G:390:TYR:HB3	1.75	0.68
1:M:178:PRO:HD3	1:M:185:TRP:HD1	1.58	0.68
1:M:383:TYR:HB3	1:M:390:TYR:HB3	1.75	0.68
1:T:68:ASN:ND2	1:T:71:LYS:O	2.27	0.68
1:X:68:ASN:ND2	1:X:71:LYS:O	2.27	0.68
1:Y:406:ARG:NH2	1:Y:434:THR:O	2.27	0.68
1:e:178:PRO:HD3	1:e:185:TRP:HD1	1.58	0.68
1:h:383:TYR:HB3	1:h:390:TYR:HB3	1.75	0.68
1:k:383:TYR:HB3	1:k:390:TYR:HB3	1.75	0.68
1:l:68:ASN:ND2	1:l:71:LYS:O	2.27	0.68
1:m:492:ARG:H	1:r:494:THR:HG23	1.59	0.68
1:t:406:ARG:NH2	1:t:434:THR:O	2.27	0.68
1:5:406:ARG:NH2	1:5:434:THR:O	2.27	0.68
1:O:68:ASN:ND2	1:O:71:LYS:O	2.27	0.67
1:U:178:PRO:HD3	1:U:185:TRP:HD1	1.58	0.67
1:a:406:ARG:NH2	1:a:434:THR:O	2.27	0.67
1:c:178:PRO:HD3	1:c:185:TRP:HD1	1.58	0.67
1:d:494:THR:HG23	1:n:492:ARG:H	1.58	0.67
1:i:494:THR:HG23	1:l:492:ARG:H	1.58	0.67
1:m:68:ASN:ND2	1:m:71:LYS:O	2.27	0.67
1:t:494:THR:HG23	1:5:492:ARG:H	1.58	0.67
1:v:178:PRO:HD3	1:v:185:TRP:HD1	1.58	0.67
1:x:383:TYR:HB3	1:x:390:TYR:HB3	1.75	0.67
1:y:406:ARG:NH2	1:y:434:THR:O	2.27	0.67
1:7:68:ASN:ND2	1:7:71:LYS:O	2.27	0.67
1:7:406:ARG:NH2	1:7:434:THR:O	2.27	0.67
1:7:494:THR:HG23	1:8:492:ARG:H	1.58	0.67
1:F:68:ASN:ND2	1:F:71:LYS:O	2.27	0.67
1:F:406:ARG:NH2	1:F:434:THR:O	2.27	0.67
1:G:494:THR:HG23	1:H:492:ARG:H	1.58	0.67
1:J:406:ARG:NH2	1:J:434:THR:O	2.27	0.67
1:Q:383:TYR:HB3	1:Q:390:TYR:HB3	1.75	0.67
1:V:68:ASN:ND2	1:V:71:LYS:O	2.27	0.67
1:Y:68:ASN:ND2	1:Y:71:LYS:O	2.27	0.67
1:a:127:HIS:HD2	1:a:238:THR:HG22	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:406:ARG:NH2	1:g:434:THR:O	2.27	0.67
1:o:68:ASN:ND2	1:o:71:LYS:O	2.27	0.67
1:u:178:PRO:HD3	1:u:185:TRP:HD1	1.58	0.67
1:v:406:ARG:NH2	1:v:434:THR:O	2.27	0.67
1:y:68:ASN:ND2	1:y:71:LYS:O	2.27	0.67
1:3:406:ARG:NH2	1:3:434:THR:O	2.27	0.67
1:A:406:ARG:NH2	1:A:434:THR:O	2.27	0.67
1:C:492:ARG:H	1:L:494:THR:HG23	1.58	0.67
1:G:127:HIS:HD2	1:G:238:THR:HG22	1.60	0.67
1:I:178:PRO:HD3	1:I:185:TRP:HD1	1.58	0.67
1:J:178:PRO:HD3	1:J:185:TRP:HD1	1.58	0.67
1:P:178:PRO:HD3	1:P:185:TRP:HD1	1.58	0.67
1:U:406:ARG:NH2	1:U:434:THR:O	2.27	0.67
1:f:68:ASN:ND2	1:f:71:LYS:O	2.27	0.67
1:p:68:ASN:ND2	1:p:71:LYS:O	2.27	0.67
1:r:383:TYR:HB3	1:r:390:TYR:HB3	1.75	0.67
1:x:178:PRO:HD3	1:x:185:TRP:HD1	1.58	0.67
1:2:406:ARG:NH2	1:2:434:THR:O	2.27	0.67
1:2:494:THR:HG23	1:4:492:ARG:H	1.59	0.67
1:3:127:HIS:HD2	1:3:238:THR:HG22	1.60	0.67
1:Q:127:HIS:HD2	1:Q:238:THR:HG22	1.60	0.67
1:Q:406:ARG:NH2	1:Q:434:THR:O	2.27	0.67
1:S:383:TYR:HB3	1:S:390:TYR:HB3	1.75	0.67
1:b:68:ASN:ND2	1:b:71:LYS:O	2.27	0.67
1:q:178:PRO:HD3	1:q:185:TRP:HD1	1.58	0.67
1:s:406:ARG:NH2	1:s:434:THR:O	2.27	0.67
1:t:127:HIS:HD2	1:t:238:THR:HG22	1.60	0.67
1:x:127:HIS:HD2	1:x:238:THR:HG22	1.60	0.67
1:C:406:ARG:NH2	1:C:434:THR:O	2.27	0.67
1:Q:178:PRO:HD3	1:Q:185:TRP:HD1	1.58	0.67
1:W:406:ARG:NH2	1:W:434:THR:O	2.27	0.67
1:b:406:ARG:NH2	1:b:434:THR:O	2.27	0.67
1:f:406:ARG:NH2	1:f:434:THR:O	2.27	0.67
1:m:406:ARG:NH2	1:m:434:THR:O	2.27	0.67
1:A:383:TYR:HB3	1:A:390:TYR:HB3	1.75	0.67
1:T:406:ARG:NH2	1:T:434:THR:O	2.27	0.67
1:Z:406:ARG:NH2	1:Z:434:THR:O	2.27	0.67
1:g:494:THR:HG23	1:z:492:ARG:H	1.58	0.67
1:s:383:TYR:HB3	1:s:390:TYR:HB3	1.75	0.67
1:x:406:ARG:NH2	1:x:434:THR:O	2.27	0.67
1:1:406:ARG:NH2	1:1:434:THR:O	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:127:HIS:HD2	1:2:238:THR:HG22	1.60	0.67
1:2:178:PRO:HD3	1:2:185:TRP:HD1	1.58	0.67
1:6:406:ARG:NH2	1:6:434:THR:O	2.27	0.67
1:B:406:ARG:NH2	1:B:434:THR:O	2.27	0.67
1:D:178:PRO:HD3	1:D:185:TRP:HD1	1.58	0.67
1:D:406:ARG:NH2	1:D:434:THR:O	2.27	0.67
1:I:127:HIS:HD2	1:I:238:THR:HG22	1.60	0.67
1:J:127:HIS:HD2	1:J:238:THR:HG22	1.60	0.67
1:j:178:PRO:HD3	1:j:185:TRP:HD1	1.58	0.67
1:s:127:HIS:HD2	1:s:238:THR:HG22	1.60	0.67
1:v:383:TYR:HB3	1:v:390:TYR:HB3	1.75	0.67
1:8:406:ARG:NH2	1:8:434:THR:O	2.27	0.67
1:C:494:THR:HG23	1:L:492:ARG:H	1.58	0.67
1:D:494:THR:HG23	1:M:492:ARG:H	1.58	0.67
1:P:127:HIS:HD2	1:P:238:THR:HG22	1.60	0.67
1:U:127:HIS:HD2	1:U:238:THR:HG22	1.60	0.67
1:u:127:HIS:HD2	1:u:238:THR:HG22	1.60	0.67
1:z:406:ARG:NH2	1:z:434:THR:O	2.27	0.67
1:L:406:ARG:NH2	1:L:434:THR:O	2.27	0.67
1:R:127:HIS:HD2	1:R:238:THR:HG22	1.60	0.67
1:V:406:ARG:NH2	1:V:434:THR:O	2.27	0.67
1:j:127:HIS:HD2	1:j:238:THR:HG22	1.60	0.67
1:q:127:HIS:HD2	1:q:238:THR:HG22	1.60	0.67
1:4:127:HIS:HD2	1:4:238:THR:HG22	1.60	0.67
1:C:127:HIS:HD2	1:C:238:THR:HG22	1.60	0.67
1:C:302:ALA:HB2	1:M:384:ARG:HG3	1.77	0.67
1:H:127:HIS:HD2	1:H:238:THR:HG22	1.60	0.67
1:K:127:HIS:HD2	1:K:238:THR:HG22	1.60	0.67
1:U:383:TYR:HB3	1:U:390:TYR:HB3	1.75	0.67
1:a:178:PRO:HD3	1:a:185:TRP:HD1	1.58	0.67
1:g:127:HIS:HD2	1:g:238:THR:HG22	1.60	0.67
1:h:492:ARG:H	1:k:494:THR:HG23	1.58	0.67
1:m:127:HIS:HD2	1:m:238:THR:HG22	1.60	0.67
1:n:406:ARG:NH2	1:n:434:THR:O	2.27	0.67
1:p:406:ARG:NH2	1:p:434:THR:O	2.27	0.67
1:5:68:ASN:ND2	1:5:71:LYS:O	2.27	0.67
1:5:127:HIS:HD2	1:5:238:THR:HG22	1.60	0.67
1:H:68:ASN:ND2	1:H:71:LYS:O	2.27	0.66
1:J:68:ASN:ND2	1:J:71:LYS:O	2.27	0.66
1:d:406:ARG:NH2	1:d:434:THR:O	2.27	0.66
1:k:178:PRO:HD3	1:k:185:TRP:HD1	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:406:ARG:NH2	1:k:434:THR:O	2.27	0.66
1:2:68:ASN:ND2	1:2:71:LYS:O	2.27	0.66
1:3:178:PRO:HD3	1:3:185:TRP:HD1	1.58	0.66
1:D:78:ILE:HG12	1:D:86:SER:HB2	1.78	0.66
1:T:127:HIS:HD2	1:T:238:THR:HG22	1.60	0.66
1:X:78:ILE:HG12	1:X:86:SER:HB2	1.77	0.66
1:Y:78:ILE:HG12	1:Y:86:SER:HB2	1.78	0.66
1:k:78:ILE:HG12	1:k:86:SER:HB2	1.78	0.66
1:A:490:GLU:HG3	1:F:109:GLN:HE22	1.61	0.66
1:P:304:ARG:NH1	1:P:312:THR:O	2.29	0.66
1:T:78:ILE:HG12	1:T:86:SER:HB2	1.78	0.66
1:V:127:HIS:HD2	1:V:238:THR:HG22	1.60	0.66
1:W:304:ARG:NH1	1:W:312:THR:O	2.29	0.66
1:h:406:ARG:NH2	1:h:434:THR:O	2.27	0.66
1:o:78:ILE:HG12	1:o:86:SER:HB2	1.78	0.66
1:t:304:ARG:NH1	1:t:312:THR:O	2.29	0.66
1:2:492:ARG:H	1:4:494:THR:HG23	1.60	0.66
1:7:78:ILE:HG12	1:7:86:SER:HB2	1.78	0.66
1:F:78:ILE:HG12	1:F:86:SER:HB2	1.78	0.66
1:G:304:ARG:NH1	1:G:312:THR:O	2.29	0.66
1:J:304:ARG:NH1	1:J:312:THR:O	2.29	0.66
1:Q:490:GLU:HG3	1:R:109:GLN:HE22	1.61	0.66
1:j:304:ARG:NH1	1:j:312:THR:O	2.29	0.66
1:l:127:HIS:HD2	1:l:238:THR:HG22	1.60	0.66
1:m:78:ILE:HG12	1:m:86:SER:HB2	1.78	0.66
1:n:304:ARG:NH1	1:n:312:THR:O	2.29	0.66
1:p:127:HIS:HD2	1:p:238:THR:HG22	1.60	0.66
1:w:127:HIS:HD2	1:w:238:THR:HG22	1.60	0.66
1:y:78:ILE:HG12	1:y:86:SER:HB2	1.78	0.66
1:2:304:ARG:NH1	1:2:312:THR:O	2.29	0.66
1:3:304:ARG:NH1	1:3:312:THR:O	2.29	0.66
1:6:304:ARG:NH1	1:6:312:THR:O	2.29	0.66
1:A:78:ILE:HG12	1:A:86:SER:HB2	1.78	0.66
1:E:127:HIS:HD2	1:E:238:THR:HG22	1.60	0.66
1:H:178:PRO:HD3	1:H:185:TRP:HD1	1.58	0.66
1:I:78:ILE:HG12	1:I:86:SER:HB2	1.78	0.66
1:M:78:ILE:HG12	1:M:86:SER:HB2	1.77	0.66
1:M:406:ARG:NH2	1:M:434:THR:O	2.27	0.66
1:P:78:ILE:HG12	1:P:86:SER:HB2	1.78	0.66
1:P:410:THR:H	1:P:413:ASN:HD22	1.44	0.66
1:W:78:ILE:HG12	1:W:86:SER:HB2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:304:ARG:NH1	1:a:312:THR:O	2.29	0.66
1:d:304:ARG:NH1	1:d:312:THR:O	2.29	0.66
1:u:78:ILE:HG12	1:u:86:SER:HB2	1.78	0.66
1:y:127:HIS:HD2	1:y:238:THR:HG22	1.60	0.66
1:7:127:HIS:HD2	1:7:238:THR:HG22	1.60	0.66
1:8:127:HIS:HD2	1:8:238:THR:HG22	1.60	0.66
1:D:304:ARG:NH1	1:D:312:THR:O	2.29	0.66
1:F:127:HIS:HD2	1:F:238:THR:HG22	1.60	0.66
1:H:410:THR:H	1:H:413:ASN:HD22	1.44	0.66
1:N:109:GLN:HE22	1:O:490:GLU:HG3	1.61	0.66
1:O:127:HIS:HD2	1:O:238:THR:HG22	1.60	0.66
1:X:304:ARG:NH1	1:X:312:THR:O	2.29	0.66
1:Y:304:ARG:NH1	1:Y:312:THR:O	2.29	0.66
1:a:78:ILE:HG12	1:a:86:SER:HB2	1.78	0.66
1:i:109:GLN:HE22	1:l:490:GLU:HG3	1.61	0.66
1:k:304:ARG:NH1	1:k:312:THR:O	2.29	0.66
1:o:304:ARG:NH1	1:o:312:THR:O	2.29	0.66
1:q:109:GLN:HE22	1:x:490:GLU:HG3	1.61	0.66
1:q:304:ARG:NH1	1:q:312:THR:O	2.29	0.66
1:v:78:ILE:HG12	1:v:86:SER:HB2	1.78	0.66
1:3:78:ILE:HG12	1:3:86:SER:HB2	1.78	0.66
1:5:178:PRO:HD3	1:5:185:TRP:HD1	1.58	0.66
1:7:304:ARG:NH1	1:7:312:THR:O	2.29	0.66
1:B:78:ILE:HG12	1:B:86:SER:HB2	1.78	0.66
1:B:127:HIS:HD2	1:B:238:THR:HG22	1.60	0.66
1:H:304:ARG:NH1	1:H:312:THR:O	2.29	0.66
1:K:304:ARG:NH1	1:K:312:THR:O	2.29	0.66
1:R:304:ARG:NH1	1:R:312:THR:O	2.29	0.66
1:W:109:GLN:HE22	1:X:490:GLU:HG3	1.61	0.66
1:Y:127:HIS:HD2	1:Y:238:THR:HG22	1.60	0.66
1:Z:127:HIS:HD2	1:Z:238:THR:HG22	1.60	0.66
1:h:78:ILE:HG12	1:h:86:SER:HB2	1.78	0.66
1:h:127:HIS:HD2	1:h:238:THR:HG22	1.60	0.66
1:j:78:ILE:HG12	1:j:86:SER:HB2	1.78	0.66
1:j:410:THR:H	1:j:413:ASN:HD22	1.44	0.66
1:1:78:ILE:HG12	1:1:86:SER:HB2	1.78	0.66
1:1:127:HIS:HD2	1:1:238:THR:HG22	1.60	0.66
1:5:304:ARG:NH1	1:5:312:THR:O	2.29	0.66
1:5:410:THR:H	1:5:413:ASN:HD22	1.44	0.66
1:6:78:ILE:HG12	1:6:86:SER:HB2	1.78	0.66
1:A:304:ARG:NH1	1:A:312:THR:O	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:178:PRO:HD3	1:E:185:TRP:HD1	1.58	0.66
1:I:410:THR:H	1:I:413:ASN:HD22	1.44	0.66
1:O:410:THR:H	1:O:413:ASN:HD22	1.44	0.66
1:Q:304:ARG:NH1	1:Q:312:THR:O	2.29	0.66
1:R:406:ARG:NH2	1:R:434:THR:O	2.27	0.66
1:U:78:ILE:HG12	1:U:86:SER:HB2	1.78	0.66
1:U:304:ARG:NH1	1:U:312:THR:O	2.29	0.66
1:X:178:PRO:HD3	1:X:185:TRP:HD1	1.58	0.66
1:Y:63:LEU:HD12	1:4:452:PRO:HB2	1.78	0.66
1:b:109:GLN:HE22	1:c:490:GLU:HG3	1.61	0.66
1:e:490:GLU:HG3	1:f:109:GLN:HE22	1.61	0.66
1:l:410:THR:H	1:l:413:ASN:HD22	1.44	0.66
1:u:410:THR:H	1:u:413:ASN:HD22	1.44	0.66
1:v:127:HIS:HD2	1:v:238:THR:HG22	1.60	0.66
1:v:304:ARG:NH1	1:v:312:THR:O	2.29	0.66
1:w:178:PRO:HD3	1:w:185:TRP:HD1	1.58	0.66
1:1:178:PRO:HD3	1:1:185:TRP:HD1	1.58	0.66
1:4:304:ARG:NH1	1:4:312:THR:O	2.29	0.66
1:A:127:HIS:HD2	1:A:238:THR:HG22	1.60	0.66
1:B:490:GLU:HG3	1:I:109:GLN:HE22	1.61	0.66
1:M:127:HIS:HD2	1:M:238:THR:HG22	1.60	0.66
1:N:127:HIS:HD2	1:N:238:THR:HG22	1.60	0.66
1:Q:410:THR:H	1:Q:413:ASN:HD22	1.44	0.66
1:W:490:GLU:HG3	1:X:109:GLN:HE22	1.61	0.66
1:c:304:ARG:NH1	1:c:312:THR:O	2.29	0.66
1:g:302:ALA:HB2	1:h:384:ARG:HG3	1.78	0.66
1:i:127:HIS:HD2	1:i:238:THR:HG22	1.60	0.66
1:m:178:PRO:HD3	1:m:185:TRP:HD1	1.58	0.66
1:q:406:ARG:NH2	1:q:434:THR:O	2.27	0.66
1:s:78:ILE:HG12	1:s:86:SER:HB2	1.78	0.66
1:v:490:GLU:HG3	1:y:109:GLN:HE22	1.61	0.66
1:x:304:ARG:NH1	1:x:312:THR:O	2.29	0.66
1:x:410:THR:H	1:x:413:ASN:HD22	1.44	0.66
1:8:410:THR:H	1:8:413:ASN:HD22	1.44	0.66
1:B:178:PRO:HD3	1:B:185:TRP:HD1	1.58	0.66
1:B:304:ARG:NH1	1:B:312:THR:O	2.29	0.66
1:G:288:ALA:HA	1:I:85:LYS:HE2	1.78	0.66
1:J:109:GLN:HE22	1:K:490:GLU:HG3	1.61	0.66
1:J:490:GLU:HG3	1:K:109:GLN:HE22	1.61	0.66
1:R:78:ILE:HG12	1:R:86:SER:HB2	1.78	0.66
1:T:178:PRO:HD3	1:T:185:TRP:HD1	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:127:HIS:HD2	1:W:238:THR:HG22	1.60	0.66
1:Y:490:GLU:HG3	1:Z:109:GLN:HE22	1.61	0.66
1:Z:410:THR:H	1:Z:413:ASN:HD22	1.44	0.66
1:b:304:ARG:NH1	1:b:312:THR:O	2.29	0.66
1:d:410:THR:H	1:d:413:ASN:HD22	1.44	0.66
1:e:304:ARG:NH1	1:e:312:THR:O	2.29	0.66
1:f:304:ARG:NH1	1:f:312:THR:O	2.29	0.66
1:o:178:PRO:HD3	1:o:185:TRP:HD1	1.58	0.66
1:o:490:GLU:HG3	1:6:109:GLN:HE22	1.61	0.66
1:s:304:ARG:NH1	1:s:312:THR:O	2.29	0.66
1:v:410:THR:H	1:v:413:ASN:HD22	1.44	0.66
1:w:304:ARG:NH1	1:w:312:THR:O	2.29	0.66
1:1:304:ARG:NH1	1:1:312:THR:O	2.29	0.66
1:2:410:THR:H	1:2:413:ASN:HD22	1.44	0.66
1:A:410:THR:H	1:A:413:ASN:HD22	1.44	0.65
1:B:410:THR:H	1:B:413:ASN:HD22	1.44	0.65
1:C:304:ARG:NH1	1:C:312:THR:O	2.29	0.65
1:D:127:HIS:HD2	1:D:238:THR:HG22	1.60	0.65
1:E:304:ARG:NH1	1:E:312:THR:O	2.29	0.65
1:H:78:ILE:HG12	1:H:86:SER:HB2	1.78	0.65
1:O:78:ILE:HG12	1:O:86:SER:HB2	1.77	0.65
1:Q:78:ILE:HG12	1:Q:86:SER:HB2	1.78	0.65
1:X:127:HIS:HD2	1:X:238:THR:HG22	1.60	0.65
1:c:127:HIS:HD2	1:c:238:THR:HG22	1.60	0.65
1:k:127:HIS:HD2	1:k:238:THR:HG22	1.60	0.65
1:l:78:ILE:HG12	1:l:86:SER:HB2	1.78	0.65
1:n:127:HIS:HD2	1:n:238:THR:HG22	1.60	0.65
1:n:410:THR:H	1:n:413:ASN:HD22	1.44	0.65
1:o:127:HIS:HD2	1:o:238:THR:HG22	1.60	0.65
1:o:410:THR:H	1:o:413:ASN:HD22	1.44	0.65
1:x:78:ILE:HG12	1:x:86:SER:HB2	1.78	0.65
1:z:304:ARG:NH1	1:z:312:THR:O	2.29	0.65
1:5:78:ILE:HG12	1:5:86:SER:HB2	1.78	0.65
1:7:490:GLU:HG3	1:8:109:GLN:HE22	1.61	0.65
1:D:109:GLN:HE22	1:M:490:GLU:HG3	1.61	0.65
1:G:490:GLU:HG3	1:H:109:GLN:HE22	1.61	0.65
1:L:304:ARG:NH1	1:L:312:THR:O	2.29	0.65
1:M:304:ARG:NH1	1:M:312:THR:O	2.29	0.65
1:S:78:ILE:HG12	1:S:86:SER:HB2	1.78	0.65
1:S:127:HIS:HD2	1:S:238:THR:HG22	1.60	0.65
1:V:304:ARG:NH1	1:V:312:THR:O	2.29	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:410:THR:H	1:X:413:ASN:HD22	1.44	0.65
1:d:127:HIS:HD2	1:d:238:THR:HG22	1.60	0.65
1:m:410:THR:H	1:m:413:ASN:HD22	1.44	0.65
1:n:78:ILE:HG12	1:n:86:SER:HB2	1.78	0.65
1:o:109:GLN:HE22	1:6:490:GLU:HG3	1.61	0.65
1:p:78:ILE:HG12	1:p:86:SER:HB2	1.78	0.65
1:p:304:ARG:NH1	1:p:312:THR:O	2.29	0.65
1:q:78:ILE:HG12	1:q:86:SER:HB2	1.78	0.65
1:t:288:ALA:HA	1:u:85:LYS:HE2	1.79	0.65
1:u:109:GLN:HE22	1:1:490:GLU:HG3	1.61	0.65
1:1:410:THR:H	1:1:413:ASN:HD22	1.44	0.65
1:A:109:GLN:HE22	1:F:490:GLU:HG3	1.61	0.65
1:J:410:THR:H	1:J:413:ASN:HD22	1.44	0.65
1:O:85:LYS:HE2	1:n:288:ALA:HA	1.79	0.65
1:T:410:THR:H	1:T:413:ASN:HD22	1.44	0.65
1:V:78:ILE:HG12	1:V:86:SER:HB2	1.78	0.65
1:Z:85:LYS:HE2	1:3:288:ALA:HA	1.79	0.65
1:a:288:ALA:HA	1:8:85:LYS:HE2	1.79	0.65
1:e:127:HIS:HD2	1:e:238:THR:HG22	1.60	0.65
1:g:304:ARG:NH1	1:g:312:THR:O	2.29	0.65
1:h:304:ARG:NH1	1:h:312:THR:O	2.29	0.65
1:l:304:ARG:NH1	1:l:312:THR:O	2.29	0.65
1:t:490:GLU:HG3	1:5:109:GLN:HE22	1.61	0.65
1:z:78:ILE:HG12	1:z:86:SER:HB2	1.77	0.65
1:3:85:LYS:HE2	1:4:288:ALA:HA	1.76	0.65
1:B:85:LYS:HE2	1:L:288:ALA:HA	1.79	0.65
1:C:384:ARG:HG3	1:b:302:ALA:HB2	1.79	0.65
1:D:490:GLU:HG3	1:M:109:GLN:HE22	1.61	0.65
1:O:304:ARG:NH1	1:O:312:THR:O	2.29	0.65
1:Z:78:ILE:HG12	1:Z:86:SER:HB2	1.77	0.65
1:d:288:ALA:HA	1:l:85:LYS:HE2	1.79	0.65
1:h:109:GLN:HE22	1:k:490:GLU:HG3	1.61	0.65
1:q:288:ALA:HA	1:r:85:LYS:HE2	1.79	0.65
1:t:78:ILE:HG12	1:t:86:SER:HB2	1.78	0.65
1:z:288:ALA:HA	1:1:85:LYS:HE2	1.79	0.65
1:3:308:ALA:HB1	1:4:282:THR:HG21	1.78	0.65
1:6:127:HIS:HD2	1:6:238:THR:HG22	1.60	0.65
1:A:79:PRO:HG2	1:A:82:ALA:HB2	1.79	0.65
1:C:490:GLU:HG3	1:L:109:GLN:HE22	1.61	0.65
1:E:85:LYS:HE2	1:F:288:ALA:HA	1.78	0.65
1:G:78:ILE:HG12	1:G:86:SER:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:78:ILE:HG12	1:L:86:SER:HB2	1.78	0.65
1:N:384:ARG:HG3	1:P:302:ALA:HB2	1.79	0.65
1:T:304:ARG:NH1	1:T:312:THR:O	2.29	0.65
1:d:78:ILE:HG12	1:d:86:SER:HB2	1.78	0.65
1:h:490:GLU:HG3	1:k:109:GLN:HE22	1.61	0.65
1:r:78:ILE:HG12	1:r:86:SER:HB2	1.78	0.65
1:r:127:HIS:HD2	1:r:238:THR:HG22	1.60	0.65
1:v:79:PRO:HG2	1:v:82:ALA:HB2	1.79	0.65
1:w:85:LYS:HE2	1:y:288:ALA:HA	1.79	0.65
1:5:384:ARG:HG3	1:6:302:ALA:HB2	1.79	0.65
1:8:304:ARG:NH1	1:8:312:THR:O	2.29	0.65
1:A:288:ALA:HA	1:G:85:LYS:HE2	1.79	0.65
1:B:109:GLN:HE22	1:I:490:GLU:HG3	1.61	0.65
1:F:304:ARG:NH1	1:F:312:THR:O	2.29	0.65
1:R:288:ALA:HA	1:S:85:LYS:HE2	1.79	0.65
1:V:302:ALA:HB2	1:X:384:ARG:HG3	1.78	0.65
1:h:410:THR:H	1:h:413:ASN:HD22	1.44	0.65
1:m:304:ARG:NH1	1:m:312:THR:O	2.29	0.65
1:u:490:GLU:HG3	1:1:109:GLN:HE22	1.61	0.65
1:y:304:ARG:NH1	1:y:312:THR:O	2.29	0.65
1:z:127:HIS:HD2	1:z:238:THR:HG22	1.60	0.65
1:8:78:ILE:HG12	1:8:86:SER:HB2	1.78	0.65
1:A:452:PRO:HB2	1:B:63:LEU:HD12	1.79	0.65
1:G:109:GLN:HE22	1:H:490:GLU:HG3	1.61	0.65
1:G:178:PRO:HD3	1:G:185:TRP:HD1	1.58	0.65
1:H:384:ARG:HG3	1:W:302:ALA:HB2	1.79	0.65
1:L:127:HIS:HD2	1:L:238:THR:HG22	1.60	0.65
1:M:410:THR:H	1:M:413:ASN:HD22	1.44	0.65
1:N:304:ARG:NH1	1:N:312:THR:O	2.29	0.65
1:N:490:GLU:HG3	1:O:109:GLN:HE22	1.61	0.65
1:S:79:PRO:HG2	1:S:82:ALA:HB2	1.79	0.65
1:S:304:ARG:NH1	1:S:312:THR:O	2.29	0.65
1:V:452:PRO:HB2	1:W:63:LEU:HD12	1.79	0.65
1:b:127:HIS:HD2	1:b:238:THR:HG22	1.60	0.65
1:g:78:ILE:HG12	1:g:86:SER:HB2	1.78	0.65
1:g:490:GLU:HG3	1:z:109:GLN:HE22	1.62	0.65
1:i:304:ARG:NH1	1:i:312:THR:O	2.29	0.65
1:r:79:PRO:HG2	1:r:82:ALA:HB2	1.79	0.65
1:t:85:LYS:HE2	1:v:288:ALA:HA	1.79	0.65
1:4:410:THR:H	1:4:413:ASN:HD22	1.44	0.65
1:6:410:THR:H	1:6:413:ASN:HD22	1.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:384:ARG:HG3	1:Q:302:ALA:HB2	1.79	0.65
1:K:410:THR:H	1:K:413:ASN:HD22	1.44	0.65
1:T:288:ALA:HA	1:d:85:LYS:HE2	1.78	0.65
1:U:490:GLU:HG3	1:V:109:GLN:HE22	1.61	0.65
1:W:410:THR:H	1:W:413:ASN:HD22	1.44	0.65
1:X:302:ALA:HB2	1:e:384:ARG:HG3	1.78	0.65
1:Z:304:ARG:NH1	1:Z:312:THR:O	2.29	0.65
1:f:127:HIS:HD2	1:f:238:THR:HG22	1.60	0.65
1:i:384:ARG:HG3	1:j:302:ALA:HB2	1.79	0.65
1:i:490:GLU:HG3	1:l:109:GLN:HE22	1.61	0.65
1:o:384:ARG:HG3	1:p:302:ALA:HB2	1.78	0.65
1:v:452:PRO:HB2	1:1:63:LEU:HD12	1.79	0.65
1:w:384:ARG:HG3	1:x:302:ALA:HB2	1.79	0.65
1:E:78:ILE:HG12	1:E:86:SER:HB2	1.78	0.65
1:E:288:ALA:HA	1:Q:85:LYS:HE2	1.78	0.65
1:I:304:ARG:NH1	1:I:312:THR:O	2.29	0.65
1:K:308:ALA:HB1	1:8:282:THR:HG21	1.79	0.65
1:O:79:PRO:HG2	1:O:82:ALA:HB2	1.79	0.65
1:V:79:PRO:HG2	1:V:82:ALA:HB2	1.79	0.65
1:Y:109:GLN:HE22	1:Z:490:GLU:HG3	1.61	0.65
1:b:78:ILE:HG12	1:b:86:SER:HB2	1.78	0.65
1:c:85:LYS:HE2	1:p:288:ALA:HA	1.79	0.65
1:f:85:LYS:HE2	1:g:288:ALA:HA	1.78	0.65
1:i:85:LYS:HE2	1:k:288:ALA:HA	1.79	0.65
1:l:79:PRO:HG2	1:l:82:ALA:HB2	1.79	0.65
1:m:384:ARG:HG3	1:n:302:ALA:HB2	1.79	0.65
1:p:452:PRO:HB2	1:6:63:LEU:HD12	1.79	0.65
1:q:85:LYS:HE2	1:s:288:ALA:HA	1.79	0.65
1:r:304:ARG:NH1	1:r:312:THR:O	2.29	0.65
1:t:109:GLN:HE22	1:5:490:GLU:HG3	1.61	0.65
1:u:304:ARG:NH1	1:u:312:THR:O	2.29	0.65
1:C:78:ILE:HG12	1:C:86:SER:HB2	1.78	0.65
1:C:109:GLN:HE22	1:L:490:GLU:HG3	1.61	0.65
1:D:288:ALA:HA	1:N:85:LYS:HE2	1.79	0.65
1:D:452:PRO:HB2	1:E:63:LEU:HD12	1.79	0.65
1:F:63:LEU:HD12	1:G:452:PRO:HB2	1.79	0.65
1:T:384:ARG:HG3	1:d:302:ALA:HB2	1.79	0.65
1:f:78:ILE:HG12	1:f:86:SER:HB2	1.78	0.65
1:j:79:PRO:HG2	1:j:82:ALA:HB2	1.79	0.65
1:m:288:ALA:HA	1:n:85:LYS:HE2	1.78	0.65
1:t:178:PRO:HD3	1:t:185:TRP:HD1	1.58	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:78:ILE:HG12	1:w:86:SER:HB2	1.78	0.65
1:w:288:ALA:HA	1:x:85:LYS:HE2	1.79	0.65
1:7:410:THR:H	1:7:413:ASN:HD22	1.44	0.65
1:D:85:LYS:HE2	1:P:288:ALA:HA	1.80	0.64
1:K:452:PRO:HB2	1:7:63:LEU:HD12	1.79	0.64
1:O:282:THR:HG21	1:m:308:ALA:HB1	1.79	0.64
1:P:79:PRO:HG2	1:P:82:ALA:HB2	1.79	0.64
1:Y:178:PRO:HD3	1:Y:185:TRP:HD1	1.58	0.64
1:Y:410:THR:H	1:Y:413:ASN:HD22	1.44	0.64
1:c:384:ARG:HG3	1:o:302:ALA:HB2	1.79	0.64
1:d:109:GLN:HE22	1:n:490:GLU:HG3	1.61	0.64
1:i:410:THR:H	1:i:413:ASN:HD22	1.44	0.64
1:m:282:THR:HG21	1:n:308:ALA:HB1	1.79	0.64
1:p:79:PRO:HG2	1:p:82:ALA:HB2	1.79	0.64
1:v:109:GLN:HE22	1:y:490:GLU:HG3	1.61	0.64
1:x:384:ARG:HG3	1:y:302:ALA:HB2	1.78	0.64
1:z:302:ALA:HB2	1:2:384:ARG:HG3	1.79	0.64
1:4:78:ILE:HG12	1:4:86:SER:HB2	1.78	0.64
1:7:109:GLN:HE22	1:8:490:GLU:HG3	1.61	0.64
1:A:302:ALA:HB2	1:I:384:ARG:HG3	1.78	0.64
1:C:79:PRO:HG2	1:C:82:ALA:HB2	1.79	0.64
1:G:384:ARG:HG3	1:I:302:ALA:HB2	1.79	0.64
1:J:384:ARG:HG3	1:L:302:ALA:HB2	1.79	0.64
1:N:78:ILE:HG12	1:N:86:SER:HB2	1.78	0.64
1:N:410:THR:H	1:N:413:ASN:HD22	1.44	0.64
1:Q:63:LEU:HD12	1:S:452:PRO:HB2	1.79	0.64
1:R:85:LYS:HE2	1:U:288:ALA:HA	1.79	0.64
1:T:308:ALA:HB1	1:l:282:THR:HG21	1.79	0.64
1:d:490:GLU:HG3	1:n:109:GLN:HE22	1.61	0.64
1:f:302:ALA:HB2	1:g:384:ARG:HG3	1.79	0.64
1:i:78:ILE:HG12	1:i:86:SER:HB2	1.78	0.64
1:j:288:ALA:HA	1:k:85:LYS:HE2	1.80	0.64
1:p:109:GLN:HE22	1:s:490:GLU:HG3	1.61	0.64
1:t:384:ARG:HG3	1:u:302:ALA:HB2	1.79	0.64
1:w:302:ALA:HB2	1:y:384:ARG:HG3	1.79	0.64
1:7:178:PRO:HD3	1:7:185:TRP:HD1	1.58	0.64
1:C:452:PRO:HB2	1:D:63:LEU:HD12	1.79	0.64
1:E:410:THR:H	1:E:413:ASN:HD22	1.44	0.64
1:H:308:ALA:HB1	1:Y:282:THR:HG21	1.80	0.64
1:K:78:ILE:HG12	1:K:86:SER:HB2	1.78	0.64
1:K:79:PRO:HG2	1:K:82:ALA:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:308:ALA:HB1	1:n:282:THR:HG21	1.80	0.64
1:Q:109:GLN:HE22	1:R:490:GLU:HG3	1.61	0.64
1:R:302:ALA:HB2	1:U:384:ARG:HG3	1.79	0.64
1:T:282:THR:HG21	1:d:308:ALA:HB1	1.80	0.64
1:b:79:PRO:HG2	1:b:82:ALA:HB2	1.79	0.64
1:d:282:THR:HG21	1:l:308:ALA:HB1	1.80	0.64
1:g:79:PRO:HG2	1:g:82:ALA:HB2	1.79	0.64
1:g:109:GLN:HE22	1:z:490:GLU:HG3	1.61	0.64
1:k:452:PRO:HB2	1:w:63:LEU:HD12	1.79	0.64
1:4:79:PRO:HG2	1:4:82:ALA:HB2	1.79	0.64
1:5:308:ALA:HB1	1:7:282:THR:HG21	1.80	0.64
1:E:302:ALA:HB2	1:F:384:ARG:HG3	1.79	0.64
1:O:63:LEU:HD12	1:P:452:PRO:HB2	1.79	0.64
1:O:452:PRO:HB2	1:d:63:LEU:HD12	1.80	0.64
1:V:288:ALA:HA	1:e:85:LYS:HE2	1.79	0.64
1:g:410:THR:H	1:g:413:ASN:HD22	1.44	0.64
1:l:452:PRO:HB2	1:n:63:LEU:HD12	1.80	0.64
1:q:308:ALA:HB1	1:s:282:THR:HG21	1.79	0.64
1:q:490:GLU:HG3	1:x:109:GLN:HE22	1.61	0.64
1:u:384:ARG:HG3	1:v:302:ALA:HB2	1.78	0.64
1:1:384:ARG:HG3	1:2:302:ALA:HB2	1.79	0.64
1:2:490:GLU:HG3	1:4:109:GLN:HE22	1.63	0.64
1:B:384:ARG:HG3	1:J:302:ALA:HB2	1.79	0.64
1:D:302:ALA:HB2	1:P:384:ARG:HG3	1.79	0.64
1:E:282:THR:HG21	1:Q:308:ALA:HB1	1.79	0.64
1:R:308:ALA:HB1	1:U:282:THR:HG21	1.79	0.64
1:f:79:PRO:HG2	1:f:82:ALA:HB2	1.79	0.64
1:j:384:ARG:HG3	1:k:302:ALA:HB2	1.79	0.64
1:m:63:LEU:HD12	1:s:452:PRO:HB2	1.79	0.64
1:m:109:GLN:HE22	1:r:490:GLU:HG3	1.61	0.64
1:w:410:THR:H	1:w:413:ASN:HD22	1.44	0.64
1:6:79:PRO:HG2	1:6:82:ALA:HB2	1.79	0.64
1:A:384:ARG:HG3	1:G:302:ALA:HB2	1.79	0.64
1:C:410:THR:H	1:C:413:ASN:HD22	1.44	0.64
1:E:109:GLN:HE22	1:P:490:GLU:HG3	1.60	0.64
1:E:308:ALA:HB1	1:F:282:THR:HG21	1.79	0.64
1:F:79:PRO:HG2	1:F:82:ALA:HB2	1.79	0.64
1:F:85:LYS:HE2	1:Q:288:ALA:HA	1.79	0.64
1:F:178:PRO:HD3	1:F:185:TRP:HD1	1.58	0.64
1:K:229:LEU:HD11	1:K:235:THR:HG23	1.80	0.64
1:N:288:ALA:HA	1:P:85:LYS:HE2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:302:ALA:HB2	1:n:384:ARG:HG3	1.79	0.64
1:R:384:ARG:HG3	1:S:302:ALA:HB2	1.79	0.64
1:S:109:GLN:HE22	1:T:490:GLU:HG3	1.61	0.64
1:S:384:ARG:HG3	1:U:302:ALA:HB2	1.79	0.64
1:T:63:LEU:HD12	1:U:452:PRO:HB2	1.80	0.64
1:U:79:PRO:HG2	1:U:82:ALA:HB2	1.79	0.64
1:W:79:PRO:HG2	1:W:82:ALA:HB2	1.79	0.64
1:c:78:ILE:HG12	1:c:86:SER:HB2	1.78	0.64
1:c:288:ALA:HA	1:o:85:LYS:HE2	1.79	0.64
1:j:452:PRO:HB2	1:l:63:LEU:HD12	1.79	0.64
1:r:384:ARG:HG3	1:s:302:ALA:HB2	1.79	0.64
1:s:79:PRO:HG2	1:s:82:ALA:HB2	1.79	0.64
1:t:302:ALA:HB2	1:v:384:ARG:HG3	1.79	0.64
1:w:282:THR:HG21	1:x:308:ALA:HB1	1.79	0.64
1:y:79:PRO:HG2	1:y:82:ALA:HB2	1.79	0.64
1:1:79:PRO:HG2	1:1:82:ALA:HB2	1.79	0.64
1:B:229:LEU:HD11	1:B:235:THR:HG23	1.80	0.64
1:D:282:THR:HG21	1:N:308:ALA:HB1	1.80	0.64
1:E:79:PRO:HG2	1:E:82:ALA:HB2	1.79	0.64
1:J:79:PRO:HG2	1:J:82:ALA:HB2	1.79	0.64
1:K:85:LYS:HE2	1:8:288:ALA:HA	1.79	0.64
1:U:109:GLN:HE22	1:V:490:GLU:HG3	1.62	0.64
1:X:63:LEU:HD12	1:Y:452:PRO:HB2	1.79	0.64
1:X:85:LYS:HE2	1:e:288:ALA:HA	1.79	0.64
1:Z:384:ARG:HG3	1:4:302:ALA:HB2	1.79	0.64
1:a:384:ARG:HG3	1:8:302:ALA:HB2	1.79	0.64
1:d:384:ARG:HG3	1:l:302:ALA:HB2	1.79	0.64
1:e:78:ILE:HG12	1:e:86:SER:HB2	1.78	0.64
1:g:452:PRO:HB2	1:k:63:LEU:HD12	1.79	0.64
1:i:308:ALA:HB1	1:k:282:THR:HG21	1.80	0.64
1:k:79:PRO:HG2	1:k:82:ALA:HB2	1.79	0.64
1:q:302:ALA:HB2	1:s:384:ARG:HG3	1.79	0.64
1:q:384:ARG:HG3	1:r:302:ALA:HB2	1.79	0.64
1:r:229:LEU:HD11	1:r:235:THR:HG23	1.80	0.64
1:r:452:PRO:HB2	1:x:63:LEU:HD12	1.80	0.64
1:w:79:PRO:HG2	1:w:82:ALA:HB2	1.79	0.64
1:1:229:LEU:HD11	1:1:235:THR:HG23	1.80	0.64
1:2:78:ILE:HG12	1:2:86:SER:HB2	1.78	0.64
1:2:79:PRO:HG2	1:2:82:ALA:HB2	1.79	0.64
1:B:79:PRO:HG2	1:B:82:ALA:HB2	1.79	0.64
1:D:79:PRO:HG2	1:D:82:ALA:HB2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:229:LEU:HD11	1:H:235:THR:HG23	1.80	0.64
1:H:288:ALA:HA	1:W:85:LYS:HE2	1.80	0.64
1:H:302:ALA:HB2	1:Y:384:ARG:HG3	1.79	0.64
1:M:63:LEU:HD12	1:N:452:PRO:HB2	1.79	0.64
1:S:229:LEU:HD11	1:S:235:THR:HG23	1.80	0.64
1:S:490:GLU:HG3	1:T:109:GLN:HE22	1.61	0.64
1:Y:79:PRO:HG2	1:Y:82:ALA:HB2	1.79	0.64
1:a:109:GLN:HE22	1:3:490:GLU:HG3	1.61	0.64
1:d:79:PRO:HG2	1:d:82:ALA:HB2	1.79	0.64
1:e:109:GLN:HE22	1:f:490:GLU:HG3	1.61	0.64
1:f:229:LEU:HD11	1:f:235:THR:HG23	1.80	0.64
1:h:63:LEU:HD12	1:i:452:PRO:HB2	1.79	0.64
1:i:288:ALA:HA	1:j:85:LYS:HE2	1.79	0.64
1:w:308:ALA:HB1	1:y:282:THR:HG21	1.80	0.64
1:2:229:LEU:HD11	1:2:235:THR:HG23	1.80	0.64
1:5:229:LEU:HD11	1:5:235:THR:HG23	1.80	0.64
1:E:490:GLU:HG3	1:P:109:GLN:HE22	1.61	0.64
1:F:302:ALA:HB2	1:Q:384:ARG:HG3	1.79	0.64
1:J:78:ILE:HG12	1:J:86:SER:HB2	1.78	0.64
1:J:229:LEU:HD11	1:J:235:THR:HG23	1.80	0.64
1:L:63:LEU:HD12	1:b:452:PRO:HB2	1.79	0.64
1:M:302:ALA:HB2	1:b:384:ARG:HG3	1.78	0.64
1:T:85:LYS:HE2	1:l:288:ALA:HA	1.79	0.64
1:V:384:ARG:HG3	1:e:302:ALA:HB2	1.79	0.64
1:V:410:THR:H	1:V:413:ASN:HD22	1.44	0.64
1:W:288:ALA:HA	1:Y:85:LYS:HE2	1.79	0.64
1:X:308:ALA:HB1	1:e:282:THR:HG21	1.80	0.64
1:Z:302:ALA:HB2	1:3:384:ARG:HG3	1.79	0.64
1:b:229:LEU:HD11	1:b:235:THR:HG23	1.80	0.64
1:e:410:THR:H	1:e:413:ASN:HD22	1.44	0.64
1:f:452:PRO:HB2	1:z:63:LEU:HD12	1.79	0.64
1:m:490:GLU:HG3	1:r:109:GLN:HE22	1.61	0.64
1:o:63:LEU:HD12	1:7:452:PRO:HB2	1.79	0.64
1:p:410:THR:H	1:p:413:ASN:HD22	1.44	0.64
1:p:490:GLU:HG3	1:s:109:GLN:HE22	1.61	0.64
1:q:79:PRO:HG2	1:q:82:ALA:HB2	1.79	0.64
1:t:410:THR:H	1:t:413:ASN:HD22	1.44	0.64
1:y:178:PRO:HD3	1:y:185:TRP:HD1	1.58	0.64
1:3:229:LEU:HD11	1:3:235:THR:HG23	1.80	0.64
1:4:229:LEU:HD11	1:4:235:THR:HG23	1.80	0.64
1:6:288:ALA:HA	1:7:85:LYS:HE2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:79:PRO:HG2	1:7:82:ALA:HB2	1.79	0.64
1:B:452:PRO:HB2	1:C:63:LEU:HD12	1.79	0.64
1:C:85:LYS:HE2	1:M:288:ALA:HA	1.80	0.64
1:G:79:PRO:HG2	1:G:82:ALA:HB2	1.79	0.64
1:L:410:THR:H	1:L:413:ASN:HD22	1.44	0.64
1:O:288:ALA:HA	1:m:85:LYS:HE2	1.79	0.64
1:R:79:PRO:HG2	1:R:82:ALA:HB2	1.79	0.64
1:U:410:THR:H	1:U:413:ASN:HD22	1.44	0.64
1:a:410:THR:H	1:a:413:ASN:HD22	1.44	0.64
1:a:490:GLU:HG3	1:3:109:GLN:HE22	1.61	0.64
1:c:282:THR:HG21	1:o:308:ALA:HB1	1.80	0.64
1:c:410:THR:H	1:c:413:ASN:HD22	1.44	0.64
1:f:384:ARG:HG3	1:h:302:ALA:HB2	1.79	0.64
1:g:85:LYS:HE2	1:h:288:ALA:HA	1.80	0.64
1:h:229:LEU:HD11	1:h:235:THR:HG23	1.80	0.64
1:j:109:GLN:HE22	1:w:490:GLU:HG3	1.61	0.64
1:n:79:PRO:HG2	1:n:82:ALA:HB2	1.79	0.64
1:o:79:PRO:HG2	1:o:82:ALA:HB2	1.79	0.64
1:r:410:THR:H	1:r:413:ASN:HD22	1.44	0.64
1:s:410:THR:H	1:s:413:ASN:HD22	1.44	0.64
1:t:452:PRO:HB2	1:y:63:LEU:HD12	1.80	0.64
1:y:410:THR:H	1:y:413:ASN:HD22	1.44	0.64
1:z:410:THR:H	1:z:413:ASN:HD22	1.44	0.64
1:5:302:ALA:HB2	1:7:384:ARG:HG3	1.79	0.64
1:8:79:PRO:HG2	1:8:82:ALA:HB2	1.79	0.64
1:B:308:ALA:HB1	1:L:282:THR:HG21	1.79	0.63
1:F:452:PRO:HB2	1:R:63:LEU:HD12	1.79	0.63
1:G:229:LEU:HD11	1:G:235:THR:HG23	1.80	0.63
1:G:410:THR:H	1:G:413:ASN:HD22	1.44	0.63
1:K:63:LEU:HD12	1:L:452:PRO:HB2	1.80	0.63
1:M:229:LEU:HD11	1:M:235:THR:HG23	1.80	0.63
1:R:410:THR:H	1:R:413:ASN:HD22	1.44	0.63
1:W:229:LEU:HD11	1:W:235:THR:HG23	1.80	0.63
1:X:79:PRO:HG2	1:X:82:ALA:HB2	1.79	0.63
1:Z:79:PRO:HG2	1:Z:82:ALA:HB2	1.79	0.63
1:a:229:LEU:HD11	1:a:235:THR:HG23	1.80	0.63
1:b:410:THR:H	1:b:413:ASN:HD22	1.44	0.63
1:b:490:GLU:HG3	1:c:109:GLN:HE22	1.61	0.63
1:f:288:ALA:HA	1:h:85:LYS:HE2	1.79	0.63
1:f:410:THR:H	1:f:413:ASN:HD22	1.44	0.63
1:j:45:GLY:N	1:x:225:ASP:OD1	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:490:GLU:HG3	1:w:109:GLN:HE22	1.61	0.63
1:o:288:ALA:HA	1:p:85:LYS:HE2	1.80	0.63
1:t:79:PRO:HG2	1:t:82:ALA:HB2	1.79	0.63
1:z:79:PRO:HG2	1:z:82:ALA:HB2	1.79	0.63
1:5:288:ALA:HA	1:6:85:LYS:HE2	1.80	0.63
1:F:410:THR:H	1:F:413:ASN:HD22	1.44	0.63
1:K:302:ALA:HB2	1:8:384:ARG:HG3	1.79	0.63
1:V:85:LYS:HE2	1:X:288:ALA:HA	1.80	0.63
1:V:229:LEU:HD11	1:V:235:THR:HG23	1.80	0.63
1:Z:282:THR:HG21	1:4:308:ALA:HB1	1.81	0.63
1:f:308:ALA:HB1	1:g:282:THR:HG21	1.80	0.63
1:p:229:LEU:HD11	1:p:235:THR:HG23	1.80	0.63
1:t:229:LEU:HD11	1:t:235:THR:HG23	1.80	0.63
1:z:85:LYS:HE2	1:2:288:ALA:HA	1.79	0.63
1:z:282:THR:HG21	1:1:308:ALA:HB1	1.79	0.63
1:3:410:THR:H	1:3:413:ASN:HD22	1.44	0.63
1:6:229:LEU:HD11	1:6:235:THR:HG23	1.80	0.63
1:D:384:ARG:HG3	1:N:302:ALA:HB2	1.79	0.63
1:L:79:PRO:HG2	1:L:82:ALA:HB2	1.79	0.63
1:M:85:LYS:HE2	1:b:288:ALA:HA	1.79	0.63
1:N:63:LEU:HD12	1:m:452:PRO:HB2	1.79	0.63
1:P:45:GLY:N	1:Q:225:ASP:OD1	2.29	0.63
1:Q:79:PRO:HG2	1:Q:82:ALA:HB2	1.79	0.63
1:S:410:THR:H	1:S:413:ASN:HD22	1.44	0.63
1:c:302:ALA:HB2	1:p:384:ARG:HG3	1.79	0.63
1:q:410:THR:H	1:q:413:ASN:HD22	1.44	0.63
1:v:229:LEU:HD11	1:v:235:THR:HG23	1.80	0.63
1:1:288:ALA:HA	1:2:85:LYS:HE2	1.79	0.63
1:A:229:LEU:HD11	1:A:235:THR:HG23	1.80	0.63
1:G:63:LEU:HD12	1:W:452:PRO:HB2	1.79	0.63
1:G:282:THR:HG21	1:I:308:ALA:HB1	1.79	0.63
1:T:229:LEU:HD11	1:T:235:THR:HG23	1.80	0.63
1:T:452:PRO:HB2	1:i:63:LEU:HD12	1.79	0.63
1:h:79:PRO:HG2	1:h:82:ALA:HB2	1.79	0.63
1:j:225:ASP:OD1	1:l:45:GLY:N	2.29	0.63
1:q:63:LEU:HD12	1:y:452:PRO:HB2	1.79	0.63
1:t:282:THR:HG21	1:u:308:ALA:HB1	1.79	0.63
1:D:229:LEU:HD11	1:D:235:THR:HG23	1.80	0.63
1:J:288:ALA:HA	1:L:85:LYS:HE2	1.79	0.63
1:K:288:ALA:HA	1:a:85:LYS:HE2	1.78	0.63
1:R:229:LEU:HD11	1:R:235:THR:HG23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:452:PRO:HB2	1:s:63:LEU:HD12	1.79	0.63
1:i:229:LEU:HD11	1:i:235:THR:HG23	1.80	0.63
1:i:302:ALA:HB2	1:k:384:ARG:HG3	1.79	0.63
1:j:229:LEU:HD11	1:j:235:THR:HG23	1.80	0.63
1:m:229:LEU:HD11	1:m:235:THR:HG23	1.80	0.63
1:q:229:LEU:HD11	1:q:235:THR:HG23	1.80	0.63
1:t:63:LEU:HD12	1:6:452:PRO:HB2	1.79	0.63
1:w:250:ARG:N	1:w:534:ILE:O	2.31	0.63
1:x:79:PRO:HG2	1:x:82:ALA:HB2	1.79	0.63
1:A:85:LYS:HE2	1:I:288:ALA:HA	1.80	0.63
1:B:288:ALA:HA	1:J:85:LYS:HE2	1.79	0.63
1:E:250:ARG:N	1:E:534:ILE:O	2.31	0.63
1:H:79:PRO:HG2	1:H:82:ALA:HB2	1.79	0.63
1:M:79:PRO:HG2	1:M:82:ALA:HB2	1.79	0.63
1:M:452:PRO:HB2	1:c:63:LEU:HD12	1.80	0.63
1:N:79:PRO:HG2	1:N:82:ALA:HB2	1.79	0.63
1:N:229:LEU:HD11	1:N:235:THR:HG23	1.80	0.63
1:N:282:THR:HG21	1:P:308:ALA:HB1	1.80	0.63
1:P:229:LEU:HD11	1:P:235:THR:HG23	1.80	0.63
1:U:63:LEU:HD12	1:e:452:PRO:HB2	1.79	0.63
1:Z:308:ALA:HB1	1:3:282:THR:HG21	1.80	0.63
1:e:63:LEU:HD12	1:h:452:PRO:HB2	1.80	0.63
1:i:79:PRO:HG2	1:i:82:ALA:HB2	1.79	0.63
1:i:282:THR:HG21	1:j:308:ALA:HB1	1.80	0.63
1:x:288:ALA:HA	1:y:85:LYS:HE2	1.80	0.63
1:F:308:ALA:HB1	1:Q:282:THR:HG21	1.81	0.63
1:H:63:LEU:HD12	1:I:452:PRO:HB2	1.80	0.63
1:H:85:LYS:HE2	1:Y:288:ALA:HA	1.79	0.63
1:O:45:GLY:N	1:P:225:ASP:OD1	2.29	0.63
1:T:79:PRO:HG2	1:T:82:ALA:HB2	1.79	0.63
1:a:282:THR:HG21	1:8:308:ALA:HB1	1.80	0.63
1:c:308:ALA:HB1	1:p:282:THR:HG21	1.79	0.63
1:e:79:PRO:HG2	1:e:82:ALA:HB2	1.79	0.63
1:k:229:LEU:HD11	1:k:235:THR:HG23	1.80	0.63
1:m:79:PRO:HG2	1:m:82:ALA:HB2	1.79	0.63
1:y:229:LEU:HD11	1:y:235:THR:HG23	1.80	0.63
1:2:109:GLN:HE22	1:4:490:GLU:HG3	1.64	0.63
1:5:79:PRO:HG2	1:5:82:ALA:HB2	1.79	0.63
1:A:63:LEU:HD12	1:E:452:PRO:HB2	1.80	0.63
1:C:229:LEU:HD11	1:C:235:THR:HG23	1.80	0.63
1:E:229:LEU:HD11	1:E:235:THR:HG23	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:229:LEU:HD11	1:F:235:THR:HG23	1.80	0.63
1:K:282:THR:HG21	1:a:308:ALA:HB1	1.80	0.63
1:K:384:ARG:HG3	1:a:302:ALA:HB2	1.79	0.63
1:T:302:ALA:HB2	1:l:384:ARG:HG3	1.79	0.63
1:U:229:LEU:HD11	1:U:235:THR:HG23	1.80	0.63
1:Z:452:PRO:HB2	1:a:63:LEU:HD12	1.80	0.63
1:c:79:PRO:HG2	1:c:82:ALA:HB2	1.79	0.63
1:u:229:LEU:HD11	1:u:235:THR:HG23	1.80	0.63
1:u:288:ALA:HA	1:v:85:LYS:HE2	1.80	0.63
1:u:452:PRO:HB2	1:5:63:LEU:HD12	1.79	0.63
1:w:229:LEU:HD11	1:w:235:THR:HG23	1.80	0.63
1:3:63:LEU:HD12	1:8:452:PRO:HB2	1.80	0.63
1:I:79:PRO:HG2	1:I:82:ALA:HB2	1.79	0.63
1:R:282:THR:HG21	1:S:308:ALA:HB1	1.80	0.63
1:b:63:LEU:HD12	1:o:452:PRO:HB2	1.80	0.63
1:c:229:LEU:HD11	1:c:235:THR:HG23	1.80	0.63
1:c:250:ARG:N	1:c:534:ILE:O	2.31	0.63
1:g:63:LEU:HD12	1:1:452:PRO:HB2	1.80	0.63
1:s:229:LEU:HD11	1:s:235:THR:HG23	1.80	0.63
1:v:63:LEU:HD12	1:w:452:PRO:HB2	1.80	0.63
1:5:85:LYS:HE2	1:7:288:ALA:HA	1.79	0.63
1:A:250:ARG:N	1:A:534:ILE:O	2.31	0.62
1:C:288:ALA:HA	1:b:85:LYS:HE2	1.80	0.62
1:I:63:LEU:HD12	1:J:452:PRO:HB2	1.79	0.62
1:I:229:LEU:HD11	1:I:235:THR:HG23	1.80	0.62
1:P:63:LEU:HD12	1:Q:452:PRO:HB2	1.79	0.62
1:S:282:THR:HG21	1:U:308:ALA:HB1	1.80	0.62
1:V:282:THR:HG21	1:e:308:ALA:HB1	1.80	0.62
1:a:79:PRO:HG2	1:a:82:ALA:HB2	1.79	0.62
1:e:229:LEU:HD11	1:e:235:THR:HG23	1.80	0.62
1:e:250:ARG:N	1:e:534:ILE:O	2.31	0.62
1:g:229:LEU:HD11	1:g:235:THR:HG23	1.80	0.62
1:o:282:THR:HG21	1:p:308:ALA:HB1	1.81	0.62
1:3:79:PRO:HG2	1:3:82:ALA:HB2	1.79	0.62
1:O:384:ARG:HG3	1:m:302:ALA:HB2	1.79	0.62
1:X:229:LEU:HD11	1:X:235:THR:HG23	1.80	0.62
1:X:452:PRO:HB2	1:f:63:LEU:HD12	1.80	0.62
1:Z:288:ALA:HA	1:4:85:LYS:HE2	1.80	0.62
1:a:250:ARG:N	1:a:534:ILE:O	2.31	0.62
1:o:229:LEU:HD11	1:o:235:THR:HG23	1.80	0.62
1:q:282:THR:HG21	1:r:308:ALA:HB1	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:282:THR:HG21	1:s:308:ALA:HB1	1.80	0.62
1:r:288:ALA:HA	1:s:85:LYS:HE2	1.79	0.62
1:u:63:LEU:HD12	1:2:452:PRO:HB2	1.80	0.62
1:u:225:ASP:OD1	1:5:45:GLY:N	2.29	0.62
1:H:452:PRO:HB2	1:Z:63:LEU:HD12	1.79	0.62
1:5:225:ASP:OD1	1:8:45:GLY:N	2.29	0.62
1:7:229:LEU:HD11	1:7:235:THR:HG23	1.80	0.62
1:H:225:ASP:OD1	1:Z:45:GLY:N	2.29	0.62
1:M:308:ALA:HB1	1:b:282:THR:HG21	1.80	0.62
1:O:229:LEU:HD11	1:O:235:THR:HG23	1.80	0.62
1:R:452:PRO:HB2	1:V:63:LEU:HD12	1.80	0.62
1:V:308:ALA:HB1	1:X:282:THR:HG21	1.82	0.62
1:l:229:LEU:HD11	1:l:235:THR:HG23	1.80	0.62
1:n:229:LEU:HD11	1:n:235:THR:HG23	1.80	0.62
1:u:79:PRO:HG2	1:u:82:ALA:HB2	1.79	0.62
1:3:250:ARG:N	1:3:534:ILE:O	2.31	0.62
1:5:452:PRO:HB2	1:8:63:LEU:HD12	1.79	0.62
1:S:288:ALA:HA	1:U:85:LYS:HE2	1.79	0.62
1:Y:229:LEU:HD11	1:Y:235:THR:HG23	1.80	0.62
1:f:282:THR:HG21	1:h:308:ALA:HB1	1.80	0.62
1:j:63:LEU:HD12	1:x:452:PRO:HB2	1.79	0.62
1:n:452:PRO:HB2	1:r:63:LEU:HD12	1.80	0.62
1:p:63:LEU:HD12	1:q:452:PRO:HB2	1.80	0.62
1:q:45:GLY:N	1:y:225:ASP:OD1	2.30	0.62
1:x:229:LEU:HD11	1:x:235:THR:HG23	1.80	0.62
1:z:452:PRO:HB2	1:4:63:LEU:HD12	1.81	0.62
1:B:302:ALA:HB2	1:L:384:ARG:HG3	1.79	0.62
1:H:45:GLY:N	1:I:225:ASP:OD1	2.29	0.62
1:J:282:THR:HG21	1:L:308:ALA:HB1	1.80	0.62
1:S:63:LEU:HD12	1:d:452:PRO:HB2	1.80	0.62
1:V:225:ASP:OD1	1:W:45:GLY:N	2.30	0.62
1:x:282:THR:HG21	1:y:308:ALA:HB1	1.81	0.62
1:z:384:ARG:HG3	1:1:302:ALA:HB2	1.79	0.62
1:1:250:ARG:N	1:1:534:ILE:O	2.31	0.62
1:6:282:THR:HG21	1:7:308:ALA:HB1	1.80	0.62
1:C:225:ASP:OD1	1:D:45:GLY:N	2.29	0.62
1:Q:229:LEU:HD11	1:Q:235:THR:HG23	1.80	0.62
1:d:229:LEU:HD11	1:d:235:THR:HG23	1.80	0.62
1:s:250:ARG:N	1:s:534:ILE:O	2.31	0.62
1:z:250:ARG:N	1:z:534:ILE:O	2.31	0.62
1:8:229:LEU:HD11	1:8:235:THR:HG23	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:250:ARG:N	1:B:534:ILE:O	2.31	0.62
1:B:282:THR:HG21	1:J:308:ALA:HB1	1.80	0.62
1:D:410:THR:H	1:D:413:ASN:HD22	1.44	0.62
1:F:250:ARG:N	1:F:534:ILE:O	2.31	0.62
1:L:250:ARG:N	1:L:534:ILE:O	2.31	0.62
1:U:250:ARG:N	1:U:534:ILE:O	2.31	0.62
1:W:384:ARG:HG3	1:Y:302:ALA:HB2	1.79	0.62
1:Z:229:LEU:HD11	1:Z:235:THR:HG23	1.80	0.62
1:c:225:ASP:OD1	1:s:45:GLY:N	2.30	0.62
1:z:308:ALA:HB1	1:2:282:THR:HG21	1.80	0.62
1:C:95:SER:HB3	1:C:187:LEU:HB3	1.82	0.62
1:C:250:ARG:N	1:C:534:ILE:O	2.31	0.62
1:U:45:GLY:N	1:e:225:ASP:OD1	2.30	0.62
1:g:95:SER:HB3	1:g:187:LEU:HB3	1.82	0.62
1:g:250:ARG:N	1:g:534:ILE:O	2.31	0.62
1:j:250:ARG:N	1:j:534:ILE:O	2.31	0.62
1:k:410:THR:H	1:k:413:ASN:HD22	1.44	0.62
1:o:95:SER:HB3	1:o:187:LEU:HB3	1.82	0.62
1:p:225:ASP:OD1	1:6:45:GLY:N	2.30	0.62
1:t:308:ALA:HB1	1:v:282:THR:HG21	1.80	0.62
1:6:384:ARG:HG3	1:7:302:ALA:HB2	1.79	0.62
1:A:282:THR:HG21	1:G:308:ALA:HB1	1.80	0.62
1:L:229:LEU:HD11	1:L:235:THR:HG23	1.80	0.62
1:P:250:ARG:N	1:P:534:ILE:O	2.31	0.62
1:R:95:SER:HB3	1:R:187:LEU:HB3	1.82	0.62
1:V:95:SER:HB3	1:V:187:LEU:HB3	1.82	0.62
1:W:282:THR:HG21	1:Y:308:ALA:HB1	1.80	0.62
1:X:95:SER:HB3	1:X:187:LEU:HB3	1.82	0.62
1:p:95:SER:HB3	1:p:187:LEU:HB3	1.82	0.62
1:1:282:THR:HG21	1:2:308:ALA:HB1	1.80	0.62
1:5:282:THR:HG21	1:6:308:ALA:HB1	1.81	0.62
1:g:225:ASP:OD1	1:k:45:GLY:N	2.30	0.61
1:E:424:LYS:HE2	1:F:429:ASP:HB3	1.83	0.61
1:F:225:ASP:OD1	1:R:45:GLY:N	2.30	0.61
1:G:250:ARG:N	1:G:534:ILE:O	2.31	0.61
1:J:429:ASP:HB3	1:L:424:LYS:HE2	1.83	0.61
1:S:95:SER:HB3	1:S:187:LEU:HB3	1.82	0.61
1:d:95:SER:HB3	1:d:187:LEU:HB3	1.82	0.61
1:e:45:GLY:N	1:h:225:ASP:OD1	2.30	0.61
1:g:308:ALA:HB1	1:h:282:THR:HG21	1.81	0.61
1:n:95:SER:HB3	1:n:187:LEU:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:95:SER:HB3	1:q:187:LEU:HB3	1.82	0.61
1:r:95:SER:HB3	1:r:187:LEU:HB3	1.82	0.61
1:t:250:ARG:N	1:t:534:ILE:O	2.31	0.61
1:z:229:LEU:HD11	1:z:235:THR:HG23	1.80	0.61
1:z:424:LYS:HE2	1:2:429:ASP:HB3	1.83	0.61
1:G:95:SER:HB3	1:G:187:LEU:HB3	1.82	0.61
1:H:282:THR:HG21	1:W:308:ALA:HB1	1.81	0.61
1:J:63:LEU:HD12	1:a:452:PRO:HB2	1.80	0.61
1:Y:95:SER:HB3	1:Y:187:LEU:HB3	1.82	0.61
1:k:95:SER:HB3	1:k:187:LEU:HB3	1.82	0.61
1:z:95:SER:HB3	1:z:187:LEU:HB3	1.82	0.61
1:7:95:SER:HB3	1:7:187:LEU:HB3	1.82	0.61
1:D:95:SER:HB3	1:D:187:LEU:HB3	1.82	0.61
1:D:308:ALA:HB1	1:P:282:THR:HG21	1.81	0.61
1:L:95:SER:HB3	1:L:187:LEU:HB3	1.82	0.61
1:M:225:ASP:OD1	1:c:45:GLY:N	2.30	0.61
1:l:95:SER:HB3	1:l:187:LEU:HB3	1.82	0.61
1:t:95:SER:HB3	1:t:187:LEU:HB3	1.82	0.61
1:2:63:LEU:HD12	1:3:452:PRO:HB2	1.80	0.61
1:5:95:SER:HB3	1:5:187:LEU:HB3	1.82	0.61
1:H:95:SER:HB3	1:H:187:LEU:HB3	1.82	0.61
1:f:302:ALA:O	1:f:351:TYR:OH	2.17	0.61
1:j:282:THR:HG21	1:k:308:ALA:HB1	1.81	0.61
1:u:95:SER:HB3	1:u:187:LEU:HB3	1.82	0.61
1:u:282:THR:HG21	1:v:308:ALA:HB1	1.81	0.61
1:A:308:ALA:HB1	1:I:282:THR:HG21	1.82	0.61
1:N:45:GLY:N	1:m:225:ASP:OD1	2.30	0.61
1:O:95:SER:HB3	1:O:187:LEU:HB3	1.82	0.61
1:f:95:SER:HB3	1:f:187:LEU:HB3	1.82	0.61
1:A:95:SER:HB3	1:A:187:LEU:HB3	1.82	0.61
1:C:308:ALA:HB1	1:M:282:THR:HG21	1.82	0.61
1:I:95:SER:HB3	1:I:187:LEU:HB3	1.82	0.61
1:T:225:ASP:OD1	1:i:45:GLY:N	2.30	0.61
1:b:95:SER:HB3	1:b:187:LEU:HB3	1.82	0.61
1:j:64:VAL:HG22	1:j:187:LEU:HD11	1.83	0.61
1:r:250:ARG:N	1:r:534:ILE:O	2.31	0.61
1:v:95:SER:HB3	1:v:187:LEU:HB3	1.82	0.61
1:w:424:LYS:HE2	1:y:429:ASP:HB3	1.83	0.61
1:E:64:VAL:HG22	1:E:187:LEU:HD11	1.83	0.61
1:K:95:SER:HB3	1:K:187:LEU:HB3	1.82	0.61
1:P:64:VAL:HG22	1:P:187:LEU:HD11	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:429:ASP:HB3	1:s:424:LYS:HE2	1.83	0.61
1:r:531:LYS:NZ	1:s:423:ASP:OD2	2.29	0.61
1:C:282:THR:HG21	1:b:308:ALA:HB1	1.82	0.61
1:F:64:VAL:HG22	1:F:187:LEU:HD11	1.83	0.61
1:O:225:ASP:OD1	1:d:45:GLY:N	2.30	0.61
1:S:250:ARG:N	1:S:534:ILE:O	2.31	0.61
1:S:429:ASP:HB3	1:U:424:LYS:HE2	1.83	0.61
1:V:64:VAL:HG22	1:V:187:LEU:HD11	1.83	0.61
1:c:95:SER:HB3	1:c:187:LEU:HB3	1.82	0.61
1:e:95:SER:HB3	1:e:187:LEU:HB3	1.82	0.61
1:u:429:ASP:HB3	1:v:424:LYS:HE2	1.83	0.61
1:w:64:VAL:HG22	1:w:187:LEU:HD11	1.83	0.61
1:y:64:VAL:HG22	1:y:187:LEU:HD11	1.83	0.61
1:A:531:LYS:NZ	1:G:423:ASP:OD2	2.29	0.61
1:C:64:VAL:HG22	1:C:187:LEU:HD11	1.83	0.61
1:I:45:GLY:N	1:J:225:ASP:OD1	2.30	0.61
1:N:95:SER:HB3	1:N:187:LEU:HB3	1.82	0.61
1:P:95:SER:HB3	1:P:187:LEU:HB3	1.82	0.61
1:S:531:LYS:NZ	1:U:423:ASP:OD2	2.29	0.61
1:g:64:VAL:HG22	1:g:187:LEU:HD11	1.83	0.61
1:l:225:ASP:OD1	1:n:45:GLY:N	2.30	0.61
1:n:64:VAL:HG22	1:n:187:LEU:HD11	1.83	0.61
1:p:64:VAL:HG22	1:p:187:LEU:HD11	1.83	0.61
1:x:95:SER:HB3	1:x:187:LEU:HB3	1.82	0.61
1:4:95:SER:HB3	1:4:187:LEU:HB3	1.82	0.61
1:A:424:LYS:HE2	1:I:429:ASP:HB3	1.83	0.60
1:D:64:VAL:HG22	1:D:187:LEU:HD11	1.83	0.60
1:D:101:GLN:HB2	1:D:176:VAL:HG11	1.83	0.60
1:H:64:VAL:HG22	1:H:187:LEU:HD11	1.83	0.60
1:Q:95:SER:HB3	1:Q:187:LEU:HB3	1.82	0.60
1:U:95:SER:HB3	1:U:187:LEU:HB3	1.82	0.60
1:V:318:VAL:HG22	1:X:381:ALA:HB3	1.84	0.60
1:c:101:GLN:HB2	1:c:176:VAL:HG11	1.83	0.60
1:d:64:VAL:HG22	1:d:187:LEU:HD11	1.83	0.60
1:h:95:SER:HB3	1:h:187:LEU:HB3	1.82	0.60
1:i:95:SER:HB3	1:i:187:LEU:HB3	1.82	0.60
1:j:95:SER:HB3	1:j:187:LEU:HB3	1.82	0.60
1:k:64:VAL:HG22	1:k:187:LEU:HD11	1.83	0.60
1:s:95:SER:HB3	1:s:187:LEU:HB3	1.82	0.60
1:x:64:VAL:HG22	1:x:187:LEU:HD11	1.83	0.60
1:1:64:VAL:HG22	1:1:187:LEU:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:64:VAL:HG22	1:5:187:LEU:HD11	1.83	0.60
1:A:101:GLN:HB2	1:A:176:VAL:HG11	1.83	0.60
1:A:382:LEU:HD12	1:A:396:VAL:HG22	1.83	0.60
1:A:429:ASP:HB3	1:G:424:LYS:HE2	1.83	0.60
1:B:64:VAL:HG22	1:B:187:LEU:HD11	1.83	0.60
1:M:95:SER:HB3	1:M:187:LEU:HB3	1.82	0.60
1:N:382:LEU:HD12	1:N:396:VAL:HG22	1.83	0.60
1:Q:64:VAL:HG22	1:Q:187:LEU:HD11	1.83	0.60
1:U:101:GLN:HB2	1:U:176:VAL:HG11	1.83	0.60
1:W:64:VAL:HG22	1:W:187:LEU:HD11	1.83	0.60
1:Y:504:GLU:OE1	1:4:76:ASN:ND2	2.33	0.60
1:e:101:GLN:HB2	1:e:176:VAL:HG11	1.83	0.60
1:g:424:LYS:HE2	1:h:429:ASP:HB3	1.83	0.60
1:h:101:GLN:HB2	1:h:176:VAL:HG11	1.83	0.60
1:k:101:GLN:HB2	1:k:176:VAL:HG11	1.83	0.60
1:m:101:GLN:HB2	1:m:176:VAL:HG11	1.83	0.60
1:m:250:ARG:N	1:m:534:ILE:O	2.31	0.60
1:o:381:ALA:HB3	1:p:318:VAL:HG22	1.84	0.60
1:r:64:VAL:HG22	1:r:187:LEU:HD11	1.83	0.60
1:s:101:GLN:HB2	1:s:176:VAL:HG11	1.83	0.60
1:v:382:LEU:HD12	1:v:396:VAL:HG22	1.83	0.60
1:4:64:VAL:HG22	1:4:187:LEU:HD11	1.83	0.60
1:D:76:ASN:ND2	1:E:504:GLU:OE1	2.35	0.60
1:D:225:ASP:OD1	1:E:45:GLY:N	2.29	0.60
1:D:429:ASP:HB3	1:N:424:LYS:HE2	1.84	0.60
1:G:101:GLN:HB2	1:G:176:VAL:HG11	1.83	0.60
1:I:101:GLN:HB2	1:I:176:VAL:HG11	1.84	0.60
1:K:64:VAL:HG22	1:K:187:LEU:HD11	1.83	0.60
1:K:101:GLN:HB2	1:K:176:VAL:HG11	1.83	0.60
1:M:101:GLN:HB2	1:M:176:VAL:HG11	1.83	0.60
1:O:64:VAL:HG22	1:O:187:LEU:HD11	1.83	0.60
1:T:101:GLN:HB2	1:T:176:VAL:HG11	1.83	0.60
1:f:64:VAL:HG22	1:f:187:LEU:HD11	1.83	0.60
1:i:382:LEU:HD12	1:i:396:VAL:HG22	1.83	0.60
1:i:424:LYS:HE2	1:k:429:ASP:HB3	1.84	0.60
1:t:101:GLN:HB2	1:t:176:VAL:HG11	1.83	0.60
1:t:424:LYS:HE2	1:v:429:ASP:HB3	1.83	0.60
1:v:101:GLN:HB2	1:v:176:VAL:HG11	1.83	0.60
1:6:64:VAL:HG22	1:6:187:LEU:HD11	1.83	0.60
1:A:318:VAL:HG22	1:I:381:ALA:HB3	1.84	0.60
1:E:382:LEU:HD12	1:E:396:VAL:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:95:SER:HB3	1:F:187:LEU:HB3	1.82	0.60
1:K:45:GLY:N	1:L:225:ASP:OD1	2.30	0.60
1:N:101:GLN:HB2	1:N:176:VAL:HG11	1.84	0.60
1:R:424:LYS:HE2	1:U:429:ASP:HB3	1.83	0.60
1:S:64:VAL:HG22	1:S:187:LEU:HD11	1.83	0.60
1:V:101:GLN:HB2	1:V:176:VAL:HG11	1.83	0.60
1:b:64:VAL:HG22	1:b:187:LEU:HD11	1.83	0.60
1:i:101:GLN:HB2	1:i:176:VAL:HG11	1.83	0.60
1:k:225:ASP:OD1	1:w:45:GLY:N	2.30	0.60
1:u:101:GLN:HB2	1:u:176:VAL:HG11	1.84	0.60
1:u:381:ALA:HB3	1:v:318:VAL:HG22	1.84	0.60
1:w:382:LEU:HD12	1:w:396:VAL:HG22	1.83	0.60
1:x:381:ALA:HB3	1:y:318:VAL:HG22	1.84	0.60
1:1:101:GLN:HB2	1:1:176:VAL:HG11	1.83	0.60
1:2:101:GLN:HB2	1:2:176:VAL:HG11	1.83	0.60
1:2:382:LEU:HD12	1:2:396:VAL:HG22	1.83	0.60
1:8:382:LEU:HD12	1:8:396:VAL:HG22	1.83	0.60
1:B:101:GLN:HB2	1:B:176:VAL:HG11	1.83	0.60
1:C:429:ASP:HB3	1:b:424:LYS:HE2	1.83	0.60
1:E:318:VAL:HG22	1:F:381:ALA:HB3	1.84	0.60
1:G:64:VAL:HG22	1:G:187:LEU:HD11	1.83	0.60
1:H:424:LYS:HE2	1:Y:429:ASP:HB3	1.83	0.60
1:J:101:GLN:HB2	1:J:176:VAL:HG11	1.83	0.60
1:J:382:LEU:HD12	1:J:396:VAL:HG22	1.83	0.60
1:L:64:VAL:HG22	1:L:187:LEU:HD11	1.83	0.60
1:Q:45:GLY:N	1:S:225:ASP:OD1	2.30	0.60
1:T:250:ARG:N	1:T:534:ILE:O	2.31	0.60
1:X:64:VAL:HG22	1:X:187:LEU:HD11	1.83	0.60
1:Z:382:LEU:HD12	1:Z:396:VAL:HG22	1.83	0.60
1:h:250:ARG:N	1:h:534:ILE:O	2.31	0.60
1:l:64:VAL:HG22	1:l:187:LEU:HD11	1.83	0.60
1:o:64:VAL:HG22	1:o:187:LEU:HD11	1.83	0.60
1:p:101:GLN:HB2	1:p:176:VAL:HG11	1.84	0.60
1:q:250:ARG:N	1:q:534:ILE:O	2.31	0.60
1:q:424:LYS:HE2	1:s:429:ASP:HB3	1.83	0.60
1:r:225:ASP:OD1	1:x:45:GLY:N	2.30	0.60
1:t:64:VAL:HG22	1:t:187:LEU:HD11	1.83	0.60
1:x:429:ASP:HB3	1:y:424:LYS:HE2	1.83	0.60
1:y:95:SER:HB3	1:y:187:LEU:HB3	1.82	0.60
1:z:64:VAL:HG22	1:z:187:LEU:HD11	1.83	0.60
1:2:95:SER:HB3	1:2:187:LEU:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:101:GLN:HB2	1:4:176:VAL:HG11	1.83	0.60
1:G:381:ALA:HB3	1:I:318:VAL:HG22	1.84	0.60
1:G:504:GLU:OE1	1:W:76:ASN:ND2	2.35	0.60
1:P:382:LEU:HD12	1:P:396:VAL:HG22	1.83	0.60
1:X:318:VAL:HG22	1:e:381:ALA:HB3	1.83	0.60
1:a:101:GLN:HB2	1:a:176:VAL:HG11	1.83	0.60
1:i:429:ASP:HB3	1:j:424:LYS:HE2	1.84	0.60
1:t:381:ALA:HB3	1:u:318:VAL:HG22	1.84	0.60
1:w:381:ALA:HB3	1:x:318:VAL:HG22	1.84	0.60
1:3:302:ALA:HB2	1:4:384:ARG:HG3	1.82	0.60
1:5:424:LYS:HE2	1:7:429:ASP:HB3	1.84	0.60
1:C:76:ASN:ND2	1:D:504:GLU:OE1	2.35	0.60
1:E:95:SER:HB3	1:E:187:LEU:HB3	1.82	0.60
1:E:101:GLN:HB2	1:E:176:VAL:HG11	1.83	0.60
1:K:382:LEU:HD12	1:K:396:VAL:HG22	1.83	0.60
1:N:429:ASP:HB3	1:P:424:LYS:HE2	1.84	0.60
1:R:250:ARG:N	1:R:534:ILE:O	2.31	0.60
1:R:318:VAL:HG22	1:U:381:ALA:HB3	1.84	0.60
1:T:381:ALA:HB3	1:d:318:VAL:HG22	1.84	0.60
1:W:95:SER:HB3	1:W:187:LEU:HB3	1.82	0.60
1:Y:382:LEU:HD12	1:Y:396:VAL:HG22	1.83	0.60
1:Z:424:LYS:HE2	1:3:429:ASP:HB3	1.83	0.60
1:a:95:SER:HB3	1:a:187:LEU:HB3	1.82	0.60
1:b:101:GLN:HB2	1:b:176:VAL:HG11	1.83	0.60
1:b:382:LEU:HD12	1:b:396:VAL:HG22	1.83	0.60
1:f:101:GLN:HB2	1:f:176:VAL:HG11	1.83	0.60
1:j:382:LEU:HD12	1:j:396:VAL:HG22	1.83	0.60
1:k:76:ASN:ND2	1:w:504:GLU:OE1	2.35	0.60
1:m:381:ALA:HB3	1:n:318:VAL:HG22	1.84	0.60
1:r:382:LEU:HD12	1:r:396:VAL:HG22	1.83	0.60
1:w:95:SER:HB3	1:w:187:LEU:HB3	1.82	0.60
1:w:318:VAL:HG22	1:y:381:ALA:HB3	1.84	0.60
1:y:382:LEU:HD12	1:y:396:VAL:HG22	1.83	0.60
1:3:95:SER:HB3	1:3:187:LEU:HB3	1.82	0.60
1:3:101:GLN:HB2	1:3:176:VAL:HG11	1.83	0.60
1:4:382:LEU:HD12	1:4:396:VAL:HG22	1.83	0.60
1:7:382:LEU:HD12	1:7:396:VAL:HG22	1.83	0.60
1:B:318:VAL:HG22	1:L:381:ALA:HB3	1.84	0.60
1:C:101:GLN:HB2	1:C:176:VAL:HG11	1.84	0.60
1:D:381:ALA:HB3	1:N:318:VAL:HG22	1.84	0.60
1:F:382:LEU:HD12	1:F:396:VAL:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:64:VAL:HG22	1:J:187:LEU:HD11	1.83	0.60
1:Q:382:LEU:HD12	1:Q:396:VAL:HG22	1.83	0.60
1:S:382:LEU:HD12	1:S:396:VAL:HG22	1.83	0.60
1:V:429:ASP:HB3	1:e:424:LYS:HE2	1.84	0.60
1:W:101:GLN:HB2	1:W:176:VAL:HG11	1.83	0.60
1:Z:95:SER:HB3	1:Z:187:LEU:HB3	1.82	0.60
1:f:382:LEU:HD12	1:f:396:VAL:HG22	1.83	0.60
1:t:504:GLU:OE1	1:6:76:ASN:ND2	2.35	0.60
1:u:250:ARG:N	1:u:534:ILE:O	2.31	0.60
1:x:382:LEU:HD12	1:x:396:VAL:HG22	1.83	0.60
1:z:381:ALA:HB3	1:1:318:VAL:HG22	1.84	0.60
1:2:64:VAL:HG22	1:2:187:LEU:HD11	1.83	0.60
1:6:95:SER:HB3	1:6:187:LEU:HB3	1.82	0.60
1:6:101:GLN:HB2	1:6:176:VAL:HG11	1.83	0.60
1:6:382:LEU:HD12	1:6:396:VAL:HG22	1.83	0.60
1:7:64:VAL:HG22	1:7:187:LEU:HD11	1.83	0.60
1:8:95:SER:HB3	1:8:187:LEU:HB3	1.82	0.60
1:E:381:ALA:HB3	1:Q:318:VAL:HG22	1.84	0.60
1:H:101:GLN:HB2	1:H:176:VAL:HG11	1.83	0.60
1:J:95:SER:HB3	1:J:187:LEU:HB3	1.82	0.60
1:M:250:ARG:N	1:M:534:ILE:O	2.31	0.60
1:W:382:LEU:HD12	1:W:396:VAL:HG22	1.83	0.60
1:Y:64:VAL:HG22	1:Y:187:LEU:HD11	1.83	0.60
1:Z:429:ASP:HB3	1:4:424:LYS:HE2	1.83	0.60
1:Z:531:LYS:NZ	1:4:423:ASP:OD2	2.27	0.60
1:a:429:ASP:HB3	1:8:424:LYS:HE2	1.83	0.60
1:c:381:ALA:HB3	1:o:318:VAL:HG22	1.84	0.60
1:g:101:GLN:HB2	1:g:176:VAL:HG11	1.84	0.60
1:g:382:LEU:HD12	1:g:396:VAL:HG22	1.83	0.60
1:i:318:VAL:HG22	1:k:381:ALA:HB3	1.84	0.60
1:o:382:LEU:HD12	1:o:396:VAL:HG22	1.83	0.60
1:q:101:GLN:HB2	1:q:176:VAL:HG11	1.83	0.60
1:q:318:VAL:HG22	1:s:381:ALA:HB3	1.84	0.60
1:w:101:GLN:HB2	1:w:176:VAL:HG11	1.83	0.60
1:B:381:ALA:HB3	1:J:318:VAL:HG22	1.83	0.60
1:F:318:VAL:HG22	1:Q:381:ALA:HB3	1.84	0.60
1:I:250:ARG:N	1:I:534:ILE:O	2.31	0.60
1:R:382:LEU:HD12	1:R:396:VAL:HG22	1.83	0.60
1:W:429:ASP:HB3	1:Y:424:LYS:HE2	1.84	0.60
1:X:382:LEU:HD12	1:X:396:VAL:HG22	1.83	0.60
1:c:382:LEU:HD12	1:c:396:VAL:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:424:LYS:HE2	1:p:429:ASP:HB3	1.84	0.60
1:e:382:LEU:HD12	1:e:396:VAL:HG22	1.83	0.60
1:i:64:VAL:HG22	1:i:187:LEU:HD11	1.83	0.60
1:q:382:LEU:HD12	1:q:396:VAL:HG22	1.83	0.60
1:u:64:VAL:HG22	1:u:187:LEU:HD11	1.83	0.60
1:w:302:ALA:O	1:w:351:TYR:OH	2.17	0.60
1:w:429:ASP:HB3	1:x:424:LYS:HE2	1.84	0.60
1:5:101:GLN:HB2	1:5:176:VAL:HG11	1.83	0.60
1:6:429:ASP:HB3	1:7:424:LYS:HE2	1.84	0.60
1:B:95:SER:HB3	1:B:187:LEU:HB3	1.82	0.59
1:C:382:LEU:HD12	1:C:396:VAL:HG22	1.83	0.59
1:E:429:ASP:HB3	1:Q:424:LYS:HE2	1.84	0.59
1:F:504:GLU:OE1	1:G:76:ASN:ND2	2.35	0.59
1:G:429:ASP:HB3	1:I:424:LYS:HE2	1.84	0.59
1:I:64:VAL:HG22	1:I:187:LEU:HD11	1.83	0.59
1:N:64:VAL:HG22	1:N:187:LEU:HD11	1.83	0.59
1:N:381:ALA:HB3	1:P:318:VAL:HG22	1.84	0.59
1:Q:101:GLN:HB2	1:Q:176:VAL:HG11	1.83	0.59
1:R:64:VAL:HG22	1:R:187:LEU:HD11	1.83	0.59
1:R:101:GLN:HB2	1:R:176:VAL:HG11	1.83	0.59
1:f:424:LYS:HE2	1:g:429:ASP:HB3	1.84	0.59
1:g:76:ASN:ND2	1:k:504:GLU:OE1	2.35	0.59
1:1:381:ALA:HB3	1:2:318:VAL:HG22	1.83	0.59
1:4:250:ARG:N	1:4:534:ILE:O	2.31	0.59
1:5:429:ASP:HB3	1:6:424:LYS:HE2	1.84	0.59
1:8:101:GLN:HB2	1:8:176:VAL:HG11	1.83	0.59
1:A:76:ASN:ND2	1:B:504:GLU:OE1	2.35	0.59
1:E:302:ALA:O	1:E:351:TYR:OH	2.17	0.59
1:F:424:LYS:HE2	1:Q:429:ASP:HB3	1.84	0.59
1:H:429:ASP:HB3	1:W:424:LYS:HE2	1.83	0.59
1:L:382:LEU:HD12	1:L:396:VAL:HG22	1.83	0.59
1:M:318:VAL:HG22	1:b:381:ALA:HB3	1.83	0.59
1:M:424:LYS:HE2	1:b:429:ASP:HB3	1.84	0.59
1:f:225:ASP:OD1	1:z:45:GLY:N	2.30	0.59
1:f:429:ASP:HB3	1:h:424:LYS:HE2	1.84	0.59
1:m:95:SER:HB3	1:m:187:LEU:HB3	1.82	0.59
1:m:382:LEU:HD12	1:m:396:VAL:HG22	1.83	0.59
1:q:64:VAL:HG22	1:q:187:LEU:HD11	1.83	0.59
1:t:429:ASP:HB3	1:u:424:LYS:HE2	1.84	0.59
1:z:382:LEU:HD12	1:z:396:VAL:HG22	1.83	0.59
1:1:95:SER:HB3	1:1:187:LEU:HB3	1.82	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:64:VAL:HG22	1:3:187:LEU:HD11	1.83	0.59
1:A:64:VAL:HG22	1:A:187:LEU:HD11	1.83	0.59
1:B:424:LYS:HE2	1:L:429:ASP:HB3	1.83	0.59
1:B:429:ASP:HB3	1:J:424:LYS:HE2	1.84	0.59
1:K:250:ARG:N	1:K:534:ILE:O	2.31	0.59
1:O:504:GLU:OE1	1:P:76:ASN:ND2	2.35	0.59
1:P:504:GLU:OE1	1:Q:76:ASN:ND2	2.35	0.59
1:R:429:ASP:HB3	1:S:424:LYS:HE2	1.84	0.59
1:T:382:LEU:HD12	1:T:396:VAL:HG22	1.83	0.59
1:X:424:LYS:HE2	1:e:429:ASP:HB3	1.84	0.59
1:Z:101:GLN:HB2	1:Z:176:VAL:HG11	1.83	0.59
1:a:64:VAL:HG22	1:a:187:LEU:HD11	1.83	0.59
1:d:381:ALA:HB3	1:l:318:VAL:HG22	1.84	0.59
1:j:302:ALA:O	1:j:351:TYR:OH	2.17	0.59
1:l:250:ARG:N	1:l:534:ILE:O	2.31	0.59
1:n:302:ALA:O	1:n:351:TYR:OH	2.17	0.59
1:o:429:ASP:HB3	1:p:424:LYS:HE2	1.83	0.59
1:K:381:ALA:HB3	1:a:318:VAL:HG22	1.84	0.59
1:L:45:GLY:N	1:b:225:ASP:OD1	2.29	0.59
1:O:76:ASN:ND2	1:d:504:GLU:OE1	2.36	0.59
1:O:250:ARG:N	1:O:534:ILE:O	2.31	0.59
1:P:101:GLN:HB2	1:P:176:VAL:HG11	1.83	0.59
1:P:302:ALA:O	1:P:351:TYR:OH	2.17	0.59
1:R:381:ALA:HB3	1:S:318:VAL:HG22	1.83	0.59
1:T:95:SER:HB3	1:T:187:LEU:HB3	1.82	0.59
1:X:101:GLN:HB2	1:X:176:VAL:HG11	1.83	0.59
1:a:382:LEU:HD12	1:a:396:VAL:HG22	1.83	0.59
1:c:429:ASP:HB3	1:o:424:LYS:HE2	1.84	0.59
1:d:250:ARG:N	1:d:534:ILE:O	2.31	0.59
1:d:429:ASP:HB3	1:l:424:LYS:HE2	1.83	0.59
1:i:381:ALA:HB3	1:j:318:VAL:HG22	1.84	0.59
1:j:101:GLN:HB2	1:j:176:VAL:HG11	1.83	0.59
1:n:250:ARG:N	1:n:534:ILE:O	2.31	0.59
1:q:429:ASP:HB3	1:r:424:LYS:HE2	1.84	0.59
1:r:302:ALA:O	1:r:351:TYR:OH	2.17	0.59
1:v:64:VAL:HG22	1:v:187:LEU:HD11	1.83	0.59
1:v:76:ASN:ND2	1:1:504:GLU:OE1	2.35	0.59
1:x:101:GLN:HB2	1:x:176:VAL:HG11	1.84	0.59
1:z:101:GLN:HB2	1:z:176:VAL:HG11	1.83	0.59
1:3:382:LEU:HD12	1:3:396:VAL:HG22	1.83	0.59
1:C:424:LYS:HE2	1:M:429:ASP:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:318:VAL:HG22	1:n:381:ALA:HB3	1.84	0.59
1:S:302:ALA:O	1:S:351:TYR:OH	2.17	0.59
1:c:64:VAL:HG22	1:c:187:LEU:HD11	1.83	0.59
1:e:64:VAL:HG22	1:e:187:LEU:HD11	1.83	0.59
1:j:76:ASN:ND2	1:l:504:GLU:OE1	2.36	0.59
1:m:64:VAL:HG22	1:m:187:LEU:HD11	1.83	0.59
1:m:429:ASP:HB3	1:n:424:LYS:HE2	1.84	0.59
1:q:504:GLU:OE1	1:y:76:ASN:ND2	2.35	0.59
1:v:250:ARG:N	1:v:534:ILE:O	2.31	0.59
1:z:429:ASP:HB3	1:1:424:LYS:HE2	1.83	0.59
1:1:429:ASP:HB3	1:2:424:LYS:HE2	1.84	0.59
1:7:250:ARG:N	1:7:534:ILE:O	2.31	0.59
1:C:318:VAL:HG22	1:M:381:ALA:HB3	1.84	0.59
1:D:318:VAL:HG22	1:P:381:ALA:HB3	1.84	0.59
1:S:101:GLN:HB2	1:S:176:VAL:HG11	1.83	0.59
1:T:64:VAL:HG22	1:T:187:LEU:HD11	1.83	0.59
1:U:64:VAL:HG22	1:U:187:LEU:HD11	1.83	0.59
1:V:424:LYS:HE2	1:X:429:ASP:HB3	1.83	0.59
1:f:76:ASN:ND2	1:z:504:GLU:OE1	2.35	0.59
1:f:381:ALA:HB3	1:h:318:VAL:HG22	1.84	0.59
1:o:101:GLN:HB2	1:o:176:VAL:HG11	1.83	0.59
1:s:64:VAL:HG22	1:s:187:LEU:HD11	1.83	0.59
1:D:382:LEU:HD12	1:D:396:VAL:HG22	1.83	0.59
1:F:76:ASN:ND2	1:R:504:GLU:OE1	2.35	0.59
1:I:504:GLU:OE1	1:J:76:ASN:ND2	2.36	0.59
1:L:504:GLU:OE1	1:b:76:ASN:ND2	2.35	0.59
1:O:424:LYS:HE2	1:n:429:ASP:HB3	1.83	0.59
1:Q:504:GLU:OE1	1:S:76:ASN:ND2	2.35	0.59
1:T:429:ASP:HB3	1:d:424:LYS:HE2	1.84	0.59
1:V:382:LEU:HD12	1:V:396:VAL:HG22	1.83	0.59
1:d:382:LEU:HD12	1:d:396:VAL:HG22	1.83	0.59
1:g:45:GLY:N	1:1:225:ASP:OD1	2.30	0.59
1:h:504:GLU:OE1	1:i:76:ASN:ND2	2.35	0.59
1:j:504:GLU:OE1	1:x:76:ASN:ND2	2.36	0.59
1:l:76:ASN:ND2	1:n:504:GLU:OE1	2.36	0.59
1:o:410:THR:H	1:o:413:ASN:ND2	2.01	0.59
1:p:250:ARG:N	1:p:534:ILE:O	2.31	0.59
1:q:381:ALA:HB3	1:r:318:VAL:HG22	1.83	0.59
1:r:101:GLN:HB2	1:r:176:VAL:HG11	1.83	0.59
1:2:488:ARG:O	1:4:109:GLN:NE2	2.35	0.59
1:G:382:LEU:HD12	1:G:396:VAL:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:101:GLN:HB2	1:L:176:VAL:HG11	1.83	0.59
1:M:504:GLU:OE1	1:N:76:ASN:ND2	2.35	0.59
1:T:318:VAL:HG22	1:l:381:ALA:HB3	1.84	0.59
1:V:76:ASN:ND2	1:W:504:GLU:OE1	2.35	0.59
1:Y:250:ARG:N	1:Y:534:ILE:O	2.31	0.59
1:Z:64:VAL:HG22	1:Z:187:LEU:HD11	1.83	0.59
1:a:410:THR:H	1:a:413:ASN:ND2	2.01	0.59
1:g:318:VAL:HG22	1:h:381:ALA:HB3	1.84	0.59
1:g:504:GLU:OE1	1:1:76:ASN:ND2	2.36	0.59
1:h:64:VAL:HG22	1:h:187:LEU:HD11	1.83	0.59
1:h:382:LEU:HD12	1:h:396:VAL:HG22	1.83	0.59
1:i:250:ARG:N	1:i:534:ILE:O	2.31	0.59
1:j:381:ALA:HB3	1:k:318:VAL:HG22	1.84	0.59
1:k:382:LEU:HD12	1:k:396:VAL:HG22	1.83	0.59
1:m:504:GLU:OE1	1:s:76:ASN:ND2	2.36	0.59
1:t:382:LEU:HD12	1:t:396:VAL:HG22	1.83	0.59
1:u:504:GLU:OE1	1:2:76:ASN:ND2	2.36	0.59
1:z:225:ASP:OD1	1:4:45:GLY:N	2.32	0.59
1:3:410:THR:H	1:3:413:ASN:ND2	2.01	0.59
1:8:64:VAL:HG22	1:8:187:LEU:HD11	1.83	0.59
1:F:101:GLN:HB2	1:F:176:VAL:HG11	1.83	0.59
1:H:504:GLU:OE1	1:I:76:ASN:ND2	2.36	0.59
1:K:424:LYS:HE2	1:8:429:ASP:HB3	1.83	0.59
1:M:64:VAL:HG22	1:M:187:LEU:HD11	1.83	0.59
1:M:382:LEU:HD12	1:M:396:VAL:HG22	1.83	0.59
1:T:504:GLU:OE1	1:U:76:ASN:ND2	2.36	0.59
1:X:410:THR:H	1:X:413:ASN:ND2	2.01	0.59
1:Y:101:GLN:HB2	1:Y:176:VAL:HG11	1.83	0.59
1:c:318:VAL:HG22	1:p:381:ALA:HB3	1.84	0.59
1:n:382:LEU:HD12	1:n:396:VAL:HG22	1.83	0.59
1:p:382:LEU:HD12	1:p:396:VAL:HG22	1.83	0.59
1:r:76:ASN:ND2	1:x:504:GLU:OE1	2.36	0.59
1:A:381:ALA:HB3	1:G:318:VAL:HG22	1.84	0.59
1:H:381:ALA:HB3	1:W:318:VAL:HG22	1.84	0.59
1:I:382:LEU:HD12	1:I:396:VAL:HG22	1.83	0.59
1:J:381:ALA:HB3	1:L:318:VAL:HG22	1.84	0.59
1:K:429:ASP:HB3	1:a:424:LYS:HE2	1.84	0.59
1:L:410:THR:H	1:L:413:ASN:ND2	2.01	0.59
1:O:381:ALA:HB3	1:m:318:VAL:HG22	1.84	0.59
1:O:410:THR:H	1:O:413:ASN:ND2	2.01	0.59
1:O:429:ASP:HB3	1:m:424:LYS:HE2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:381:ALA:HB3	1:Y:318:VAL:HG22	1.84	0.59
1:l:302:ALA:O	1:l:351:TYR:OH	2.17	0.59
1:p:76:ASN:ND2	1:6:504:GLU:OE1	2.36	0.59
1:t:318:VAL:HG22	1:v:381:ALA:HB3	1.84	0.59
1:u:76:ASN:ND2	1:5:504:GLU:OE1	2.36	0.59
1:u:382:LEU:HD12	1:u:396:VAL:HG22	1.83	0.59
1:x:410:THR:H	1:x:413:ASN:ND2	2.01	0.59
1:y:101:GLN:HB2	1:y:176:VAL:HG11	1.83	0.59
1:B:76:ASN:ND2	1:C:504:GLU:OE1	2.36	0.58
1:D:410:THR:H	1:D:413:ASN:ND2	2.01	0.58
1:K:504:GLU:OE1	1:L:76:ASN:ND2	2.36	0.58
1:N:504:GLU:OE1	1:m:76:ASN:ND2	2.36	0.58
1:O:382:LEU:HD12	1:O:396:VAL:HG22	1.83	0.58
1:Q:410:THR:H	1:Q:413:ASN:ND2	2.01	0.58
1:T:424:LYS:HE2	1:l:429:ASP:HB3	1.83	0.58
1:V:250:ARG:N	1:V:534:ILE:O	2.31	0.58
1:V:381:ALA:HB3	1:e:318:VAL:HG22	1.84	0.58
1:X:225:ASP:OD1	1:f:45:GLY:N	2.30	0.58
1:b:45:GLY:N	1:o:225:ASP:OD1	2.30	0.58
1:j:429:ASP:HB3	1:k:424:LYS:HE2	1.84	0.58
1:l:101:GLN:HB2	1:l:176:VAL:HG11	1.83	0.58
1:l:382:LEU:HD12	1:l:396:VAL:HG22	1.83	0.58
1:l:410:THR:H	1:l:413:ASN:ND2	2.01	0.58
1:s:410:THR:H	1:s:413:ASN:ND2	2.01	0.58
1:z:410:THR:H	1:z:413:ASN:ND2	2.01	0.58
1:2:109:GLN:NE2	1:4:488:ARG:O	2.36	0.58
1:5:302:ALA:O	1:5:351:TYR:OH	2.17	0.58
1:5:381:ALA:HB3	1:6:318:VAL:HG22	1.84	0.58
1:5:382:LEU:HD12	1:5:396:VAL:HG22	1.83	0.58
1:6:381:ALA:HB3	1:7:318:VAL:HG22	1.84	0.58
1:7:101:GLN:HB2	1:7:176:VAL:HG11	1.83	0.58
1:H:302:ALA:O	1:H:351:TYR:OH	2.17	0.58
1:H:382:LEU:HD12	1:H:396:VAL:HG22	1.83	0.58
1:N:250:ARG:N	1:N:534:ILE:O	2.31	0.58
1:O:101:GLN:HB2	1:O:176:VAL:HG11	1.83	0.58
1:U:410:THR:H	1:U:413:ASN:ND2	2.01	0.58
1:g:410:THR:H	1:g:413:ASN:ND2	2.01	0.58
1:k:410:THR:H	1:k:413:ASN:ND2	2.01	0.58
1:o:504:GLU:OE1	1:7:76:ASN:ND2	2.35	0.58
1:z:318:VAL:HG22	1:2:381:ALA:HB3	1.84	0.58
1:1:382:LEU:HD12	1:1:396:VAL:HG22	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:250:ARG:N	1:5:534:ILE:O	2.31	0.58
1:B:225:ASP:OD1	1:C:45:GLY:N	2.30	0.58
1:B:382:LEU:HD12	1:B:396:VAL:HG22	1.83	0.58
1:C:410:THR:H	1:C:413:ASN:ND2	2.01	0.58
1:D:424:LYS:HE2	1:P:429:ASP:HB3	1.84	0.58
1:H:76:ASN:ND2	1:Z:504:GLU:OE1	2.35	0.58
1:K:76:ASN:ND2	1:7:504:GLU:OE1	2.36	0.58
1:O:302:ALA:O	1:O:351:TYR:OH	2.17	0.58
1:R:410:THR:H	1:R:413:ASN:ND2	2.01	0.58
1:T:76:ASN:ND2	1:i:504:GLU:OE1	2.36	0.58
1:X:504:GLU:OE1	1:Y:76:ASN:ND2	2.35	0.58
1:Y:45:GLY:N	1:4:225:ASP:OD1	2.27	0.58
1:d:410:THR:H	1:d:413:ASN:ND2	2.01	0.58
1:e:504:GLU:OE1	1:h:76:ASN:ND2	2.36	0.58
1:m:488:ARG:O	1:r:109:GLN:NE2	2.37	0.58
1:n:410:THR:H	1:n:413:ASN:ND2	2.01	0.58
1:r:381:ALA:HB3	1:s:318:VAL:HG22	1.84	0.58
1:r:410:THR:H	1:r:413:ASN:ND2	2.01	0.58
1:C:381:ALA:HB3	1:b:318:VAL:HG22	1.84	0.58
1:H:250:ARG:N	1:H:534:ILE:O	2.31	0.58
1:H:318:VAL:HG22	1:Y:381:ALA:HB3	1.84	0.58
1:K:318:VAL:HG22	1:8:381:ALA:HB3	1.84	0.58
1:M:76:ASN:ND2	1:c:504:GLU:OE1	2.36	0.58
1:S:109:GLN:NE2	1:T:488:ARG:O	2.37	0.58
1:S:381:ALA:HB3	1:U:318:VAL:HG22	1.84	0.58
1:S:504:GLU:OE1	1:d:76:ASN:ND2	2.36	0.58
1:U:382:LEU:HD12	1:U:396:VAL:HG22	1.83	0.58
1:b:410:THR:H	1:b:413:ASN:ND2	2.01	0.58
1:q:410:THR:H	1:q:413:ASN:ND2	2.01	0.58
1:P:204:ASP:OD1	1:P:205:ALA:N	2.37	0.58
1:S:410:THR:H	1:S:413:ASN:ND2	2.01	0.58
1:T:204:ASP:OD1	1:T:205:ALA:N	2.37	0.58
1:Z:76:ASN:ND2	1:a:504:GLU:OE1	2.36	0.58
1:f:410:THR:H	1:f:413:ASN:ND2	2.01	0.58
1:m:204:ASP:OD1	1:m:205:ALA:N	2.37	0.58
1:n:76:ASN:ND2	1:r:504:GLU:OE1	2.36	0.58
1:p:504:GLU:OE1	1:q:76:ASN:ND2	2.36	0.58
1:r:204:ASP:OD1	1:r:205:ALA:N	2.37	0.58
1:t:76:ASN:ND2	1:y:504:GLU:OE1	2.36	0.58
1:5:76:ASN:ND2	1:8:504:GLU:OE1	2.36	0.58
1:5:318:VAL:HG22	1:7:381:ALA:HB3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:204:ASP:OD1	1:D:205:ALA:N	2.37	0.58
1:E:410:THR:H	1:E:413:ASN:ND2	2.01	0.58
1:J:109:GLN:NE2	1:K:488:ARG:O	2.37	0.58
1:S:45:GLY:N	1:d:225:ASP:OD1	2.30	0.58
1:S:204:ASP:OD1	1:S:205:ALA:N	2.37	0.58
1:Y:511:HIS:CD2	1:4:218:PHE:HB2	2.39	0.58
1:Z:204:ASP:OD1	1:Z:205:ALA:N	2.37	0.58
1:Z:318:VAL:HG22	1:3:381:ALA:HB3	1.84	0.58
1:c:76:ASN:ND2	1:s:504:GLU:OE1	2.35	0.58
1:c:204:ASP:OD1	1:c:205:ALA:N	2.37	0.58
1:f:318:VAL:HG22	1:g:381:ALA:HB3	1.84	0.58
1:h:204:ASP:OD1	1:h:205:ALA:N	2.37	0.58
1:i:410:THR:H	1:i:413:ASN:ND2	2.01	0.58
1:j:204:ASP:OD1	1:j:205:ALA:N	2.37	0.58
1:k:204:ASP:OD1	1:k:205:ALA:N	2.37	0.58
1:s:382:LEU:HD12	1:s:396:VAL:HG22	1.83	0.58
1:I:204:ASP:OD1	1:I:205:ALA:N	2.37	0.58
1:M:204:ASP:OD1	1:M:205:ALA:N	2.37	0.58
1:N:410:THR:H	1:N:413:ASN:ND2	2.01	0.58
1:Q:204:ASP:OD1	1:Q:205:ALA:N	2.37	0.58
1:d:101:GLN:HB2	1:d:176:VAL:HG11	1.83	0.58
1:e:204:ASP:OD1	1:e:205:ALA:N	2.37	0.58
1:m:410:THR:H	1:m:413:ASN:ND2	2.01	0.58
1:t:109:GLN:NE2	1:5:488:ARG:O	2.37	0.58
1:u:204:ASP:OD1	1:u:205:ALA:N	2.37	0.58
1:x:204:ASP:OD1	1:x:205:ALA:N	2.37	0.58
1:y:410:THR:H	1:y:413:ASN:ND2	2.01	0.58
1:2:204:ASP:OD1	1:2:205:ALA:N	2.37	0.58
1:8:204:ASP:OD1	1:8:205:ALA:N	2.37	0.58
1:A:204:ASP:OD1	1:A:205:ALA:N	2.37	0.58
1:B:204:ASP:OD1	1:B:205:ALA:N	2.37	0.58
1:E:204:ASP:OD1	1:E:205:ALA:N	2.37	0.58
1:F:204:ASP:OD1	1:F:205:ALA:N	2.37	0.58
1:I:410:THR:H	1:I:413:ASN:ND2	2.01	0.58
1:J:204:ASP:OD1	1:J:205:ALA:N	2.37	0.58
1:J:250:ARG:N	1:J:534:ILE:O	2.31	0.58
1:K:204:ASP:OD1	1:K:205:ALA:N	2.37	0.58
1:R:76:ASN:ND2	1:V:504:GLU:OE1	2.36	0.58
1:T:410:THR:H	1:T:413:ASN:ND2	2.01	0.58
1:U:504:GLU:OE1	1:e:76:ASN:ND2	2.35	0.58
1:X:76:ASN:ND2	1:f:504:GLU:OE1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:381:ALA:HB3	1:8:318:VAL:HG22	1.84	0.58
1:i:109:GLN:NE2	1:l:488:ARG:O	2.37	0.58
1:n:101:GLN:HB2	1:n:176:VAL:HG11	1.83	0.58
1:o:302:ALA:O	1:o:351:TYR:OH	2.17	0.58
1:u:410:THR:H	1:u:413:ASN:ND2	2.01	0.58
1:u:488:ARG:O	1:1:109:GLN:NE2	2.37	0.58
1:v:204:ASP:OD1	1:v:205:ALA:N	2.37	0.58
1:w:204:ASP:OD1	1:w:205:ALA:N	2.37	0.58
1:w:410:THR:H	1:w:413:ASN:ND2	2.01	0.58
1:y:204:ASP:OD1	1:y:205:ALA:N	2.37	0.58
1:3:504:GLU:OE1	1:8:76:ASN:ND2	2.36	0.58
1:4:204:ASP:OD1	1:4:205:ALA:N	2.37	0.58
1:5:204:ASP:OD1	1:5:205:ALA:N	2.37	0.58
1:7:204:ASP:OD1	1:7:205:ALA:N	2.37	0.58
1:B:109:GLN:NE2	1:I:488:ARG:O	2.37	0.58
1:C:488:ARG:O	1:L:109:GLN:NE2	2.37	0.58
1:F:410:THR:H	1:F:413:ASN:ND2	2.01	0.58
1:G:109:GLN:NE2	1:H:488:ARG:O	2.37	0.58
1:H:204:ASP:OD1	1:H:205:ALA:N	2.37	0.58
1:H:410:THR:H	1:H:413:ASN:ND2	2.01	0.58
1:J:45:GLY:N	1:a:225:ASP:OD1	2.30	0.58
1:M:302:ALA:O	1:M:351:TYR:OH	2.17	0.58
1:N:109:GLN:NE2	1:O:488:ARG:O	2.37	0.58
1:P:177:MET:HA	1:P:185:TRP:CD1	2.39	0.58
1:R:177:MET:HA	1:R:185:TRP:CD1	2.39	0.58
1:X:177:MET:HA	1:X:185:TRP:CD1	2.39	0.58
1:X:302:ALA:O	1:X:351:TYR:OH	2.17	0.58
1:c:410:THR:H	1:c:413:ASN:ND2	2.01	0.58
1:g:302:ALA:O	1:g:351:TYR:OH	2.17	0.58
1:o:177:MET:HA	1:o:185:TRP:CD1	2.39	0.58
1:q:177:MET:HA	1:q:185:TRP:CD1	2.39	0.58
1:1:204:ASP:OD1	1:1:205:ALA:N	2.37	0.58
1:2:410:THR:H	1:2:413:ASN:ND2	2.01	0.58
1:J:410:THR:H	1:J:413:ASN:ND2	2.01	0.58
1:N:177:MET:HA	1:N:185:TRP:CD1	2.39	0.58
1:O:177:MET:HA	1:O:185:TRP:CD1	2.39	0.58
1:U:204:ASP:OD1	1:U:205:ALA:N	2.37	0.58
1:W:177:MET:HA	1:W:185:TRP:CD1	2.39	0.58
1:Y:204:ASP:OD1	1:Y:205:ALA:N	2.37	0.58
1:b:504:GLU:OE1	1:o:76:ASN:ND2	2.36	0.58
1:j:177:MET:HA	1:j:185:TRP:CD1	2.39	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:204:ASP:OD1	1:s:205:ALA:N	2.37	0.58
1:s:302:ALA:O	1:s:351:TYR:OH	2.17	0.58
1:t:204:ASP:OD1	1:t:205:ALA:N	2.37	0.58
1:5:410:THR:H	1:5:413:ASN:ND2	2.01	0.58
1:A:504:GLU:OE1	1:E:76:ASN:ND2	2.36	0.57
1:G:204:ASP:OD1	1:G:205:ALA:N	2.37	0.57
1:J:504:GLU:OE1	1:a:76:ASN:ND2	2.36	0.57
1:K:177:MET:HA	1:K:185:TRP:CD1	2.39	0.57
1:L:177:MET:HA	1:L:185:TRP:CD1	2.39	0.57
1:Q:488:ARG:O	1:R:109:GLN:NE2	2.37	0.57
1:R:204:ASP:OD1	1:R:205:ALA:N	2.37	0.57
1:U:488:ARG:O	1:V:109:GLN:NE2	2.37	0.57
1:V:410:THR:H	1:V:413:ASN:ND2	2.01	0.57
1:Z:250:ARG:N	1:Z:534:ILE:O	2.31	0.57
1:e:410:THR:H	1:e:413:ASN:ND2	2.01	0.57
1:h:45:GLY:N	1:i:225:ASP:OD1	2.30	0.57
1:i:177:MET:HA	1:i:185:TRP:CD1	2.39	0.57
1:p:109:GLN:NE2	1:s:488:ARG:O	2.37	0.57
1:q:109:GLN:NE2	1:x:488:ARG:O	2.37	0.57
1:t:410:THR:H	1:t:413:ASN:ND2	2.01	0.57
1:v:504:GLU:OE1	1:w:76:ASN:ND2	2.36	0.57
1:2:250:ARG:N	1:2:534:ILE:O	2.31	0.57
1:4:177:MET:HA	1:4:185:TRP:CD1	2.39	0.57
1:6:177:MET:HA	1:6:185:TRP:CD1	2.39	0.57
1:7:410:THR:H	1:7:413:ASN:ND2	2.01	0.57
1:8:250:ARG:N	1:8:534:ILE:O	2.31	0.57
1:C:302:ALA:O	1:C:351:TYR:OH	2.17	0.57
1:M:410:THR:H	1:M:413:ASN:ND2	2.01	0.57
1:N:204:ASP:OD1	1:N:205:ALA:N	2.37	0.57
1:P:410:THR:H	1:P:413:ASN:ND2	2.01	0.57
1:W:488:ARG:O	1:X:109:GLN:NE2	2.37	0.57
1:b:488:ARG:O	1:c:109:GLN:NE2	2.37	0.57
1:d:204:ASP:OD1	1:d:205:ALA:N	2.37	0.57
1:e:488:ARG:O	1:f:109:GLN:NE2	2.37	0.57
1:h:410:THR:H	1:h:413:ASN:ND2	2.01	0.57
1:i:204:ASP:OD1	1:i:205:ALA:N	2.37	0.57
1:l:177:MET:HA	1:l:185:TRP:CD1	2.39	0.57
1:n:225:ASP:OD1	1:r:45:GLY:N	2.30	0.57
1:o:109:GLN:NE2	1:6:488:ARG:O	2.37	0.57
1:p:410:THR:H	1:p:413:ASN:ND2	2.01	0.57
1:q:204:ASP:OD1	1:q:205:ALA:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:177:MET:HA	1:x:185:TRP:CD1	2.39	0.57
1:z:177:MET:HA	1:z:185:TRP:CD1	2.39	0.57
1:3:177:MET:HA	1:3:185:TRP:CD1	2.39	0.57
1:C:109:GLN:NE2	1:L:488:ARG:O	2.37	0.57
1:D:64:VAL:HA	1:D:187:LEU:HD12	1.87	0.57
1:G:410:THR:H	1:G:413:ASN:ND2	2.01	0.57
1:J:177:MET:HA	1:J:185:TRP:CD1	2.39	0.57
1:M:177:MET:HA	1:M:185:TRP:CD1	2.39	0.57
1:Q:177:MET:HA	1:Q:185:TRP:CD1	2.39	0.57
1:Y:410:THR:H	1:Y:413:ASN:ND2	2.01	0.57
1:a:177:MET:HA	1:a:185:TRP:CD1	2.39	0.57
1:a:488:ARG:O	1:3:109:GLN:NE2	2.37	0.57
1:d:177:MET:HA	1:d:185:TRP:CD1	2.39	0.57
1:g:109:GLN:NE2	1:z:488:ARG:O	2.37	0.57
1:g:488:ARG:O	1:z:109:GLN:NE2	2.38	0.57
1:j:410:THR:H	1:j:413:ASN:ND2	2.01	0.57
1:k:64:VAL:HA	1:k:187:LEU:HD12	1.87	0.57
1:k:302:ALA:O	1:k:351:TYR:OH	2.17	0.57
1:n:204:ASP:OD1	1:n:205:ALA:N	2.37	0.57
1:A:177:MET:HA	1:A:185:TRP:CD1	2.39	0.57
1:C:177:MET:HA	1:C:185:TRP:CD1	2.39	0.57
1:C:204:ASP:OD1	1:C:205:ALA:N	2.37	0.57
1:G:45:GLY:N	1:W:225:ASP:OD1	2.29	0.57
1:M:45:GLY:N	1:N:225:ASP:OD1	2.30	0.57
1:O:64:VAL:HA	1:O:187:LEU:HD12	1.87	0.57
1:S:177:MET:HA	1:S:185:TRP:CD1	2.39	0.57
1:Z:177:MET:HA	1:Z:185:TRP:CD1	2.39	0.57
1:b:109:GLN:NE2	1:c:488:ARG:O	2.37	0.57
1:b:177:MET:HA	1:b:185:TRP:CD1	2.39	0.57
1:e:109:GLN:NE2	1:f:488:ARG:O	2.37	0.57
1:f:177:MET:HA	1:f:185:TRP:CD1	2.39	0.57
1:g:177:MET:HA	1:g:185:TRP:CD1	2.39	0.57
1:g:204:ASP:OD1	1:g:205:ALA:N	2.37	0.57
1:h:177:MET:HA	1:h:185:TRP:CD1	2.39	0.57
1:n:177:MET:HA	1:n:185:TRP:CD1	2.39	0.57
1:v:109:GLN:NE2	1:y:488:ARG:O	2.37	0.57
1:v:410:THR:H	1:v:413:ASN:ND2	2.01	0.57
1:2:45:GLY:N	1:3:225:ASP:OD1	2.30	0.57
1:2:177:MET:HA	1:2:185:TRP:CD1	2.39	0.57
1:3:204:ASP:OD1	1:3:205:ALA:N	2.37	0.57
1:6:64:VAL:HA	1:6:187:LEU:HD12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:109:GLN:NE2	1:8:488:ARG:O	2.37	0.57
1:A:410:THR:H	1:A:413:ASN:ND2	2.01	0.57
1:E:64:VAL:HA	1:E:187:LEU:HD12	1.87	0.57
1:L:204:ASP:OD1	1:L:205:ALA:N	2.37	0.57
1:S:64:VAL:HA	1:S:187:LEU:HD12	1.87	0.57
1:S:488:ARG:O	1:T:109:GLN:NE2	2.38	0.57
1:W:64:VAL:HA	1:W:187:LEU:HD12	1.87	0.57
1:a:204:ASP:OD1	1:a:205:ALA:N	2.37	0.57
1:d:109:GLN:NE2	1:n:488:ARG:O	2.37	0.57
1:d:488:ARG:O	1:n:109:GLN:NE2	2.37	0.57
1:r:64:VAL:HA	1:r:187:LEU:HD12	1.87	0.57
1:r:177:MET:HA	1:r:185:TRP:CD1	2.39	0.57
1:t:177:MET:HA	1:t:185:TRP:CD1	2.39	0.57
1:v:177:MET:HA	1:v:185:TRP:CD1	2.39	0.57
1:w:64:VAL:HA	1:w:187:LEU:HD12	1.87	0.57
1:z:76:ASN:ND2	1:4:504:GLU:OE1	2.37	0.57
1:1:410:THR:H	1:1:413:ASN:ND2	2.01	0.57
1:2:491:ARG:O	1:2:492:ARG:NH1	2.38	0.57
1:8:177:MET:HA	1:8:185:TRP:CD1	2.39	0.57
1:A:109:GLN:NE2	1:F:488:ARG:O	2.37	0.57
1:B:410:THR:H	1:B:413:ASN:ND2	2.01	0.57
1:D:302:ALA:O	1:D:351:TYR:OH	2.17	0.57
1:F:64:VAL:HA	1:F:187:LEU:HD12	1.87	0.57
1:G:177:MET:HA	1:G:185:TRP:CD1	2.39	0.57
1:O:204:ASP:OD1	1:O:205:ALA:N	2.37	0.57
1:T:64:VAL:HA	1:T:187:LEU:HD12	1.87	0.57
1:Y:109:GLN:NE2	1:Z:488:ARG:O	2.37	0.57
1:a:109:GLN:NE2	1:3:488:ARG:O	2.37	0.57
1:c:177:MET:HA	1:c:185:TRP:CD1	2.39	0.57
1:l:64:VAL:HA	1:l:187:LEU:HD12	1.87	0.57
1:l:204:ASP:OD1	1:l:205:ALA:N	2.37	0.57
1:m:109:GLN:NE2	1:r:488:ARG:O	2.38	0.57
1:q:488:ARG:O	1:x:109:GLN:NE2	2.37	0.57
1:s:64:VAL:HA	1:s:187:LEU:HD12	1.87	0.57
1:v:488:ARG:O	1:y:109:GLN:NE2	2.37	0.57
1:w:177:MET:HA	1:w:185:TRP:CD1	2.39	0.57
1:y:64:VAL:HA	1:y:187:LEU:HD12	1.87	0.57
1:z:204:ASP:OD1	1:z:205:ALA:N	2.37	0.57
1:2:504:GLU:OE1	1:3:76:ASN:ND2	2.37	0.57
1:A:64:VAL:HA	1:A:187:LEU:HD12	1.87	0.57
1:U:64:VAL:HA	1:U:187:LEU:HD12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:204:ASP:OD1	1:W:205:ALA:N	2.37	0.57
1:e:177:MET:HA	1:e:185:TRP:CD1	2.39	0.57
1:j:218:PHE:HB2	1:l:511:HIS:CD2	2.40	0.57
1:k:250:ARG:N	1:k:534:ILE:O	2.31	0.57
1:m:64:VAL:HA	1:m:187:LEU:HD12	1.87	0.57
1:t:45:GLY:N	1:6:225:ASP:OD1	2.30	0.57
1:v:491:ARG:O	1:v:492:ARG:NH1	2.38	0.57
1:y:177:MET:HA	1:y:185:TRP:CD1	2.39	0.57
1:z:64:VAL:HA	1:z:187:LEU:HD12	1.87	0.57
1:A:491:ARG:O	1:A:492:ARG:NH1	2.38	0.57
1:D:250:ARG:N	1:D:534:ILE:O	2.31	0.57
1:E:177:MET:HA	1:E:185:TRP:CD1	2.39	0.57
1:E:488:ARG:O	1:P:109:GLN:NE2	2.38	0.57
1:F:177:MET:HA	1:F:185:TRP:CD1	2.39	0.57
1:G:488:ARG:O	1:H:109:GLN:NE2	2.38	0.57
1:K:64:VAL:HA	1:K:187:LEU:HD12	1.87	0.57
1:K:410:THR:H	1:K:413:ASN:ND2	2.01	0.57
1:L:64:VAL:HA	1:L:187:LEU:HD12	1.87	0.57
1:L:302:ALA:O	1:L:351:TYR:OH	2.17	0.57
1:Q:109:GLN:NE2	1:R:488:ARG:O	2.37	0.57
1:T:177:MET:HA	1:T:185:TRP:CD1	2.39	0.57
1:W:410:THR:H	1:W:413:ASN:ND2	2.01	0.57
1:X:204:ASP:OD1	1:X:205:ALA:N	2.37	0.57
1:Y:177:MET:HA	1:Y:185:TRP:CD1	2.39	0.57
1:Z:64:VAL:HA	1:Z:187:LEU:HD12	1.87	0.57
1:j:109:GLN:NE2	1:w:488:ARG:O	2.38	0.57
1:j:488:ARG:O	1:w:109:GLN:NE2	2.37	0.57
1:m:177:MET:HA	1:m:185:TRP:CD1	2.39	0.57
1:m:302:ALA:O	1:m:351:TYR:OH	2.17	0.57
1:o:204:ASP:OD1	1:o:205:ALA:N	2.37	0.57
1:t:488:ARG:O	1:5:109:GLN:NE2	2.38	0.57
1:u:177:MET:HA	1:u:185:TRP:CD1	2.39	0.57
1:v:64:VAL:HA	1:v:187:LEU:HD12	1.87	0.57
1:z:302:ALA:O	1:z:351:TYR:OH	2.17	0.57
1:6:204:ASP:OD1	1:6:205:ALA:N	2.37	0.57
1:8:64:VAL:HA	1:8:187:LEU:HD12	1.87	0.57
1:B:64:VAL:HA	1:B:187:LEU:HD12	1.87	0.57
1:D:491:ARG:O	1:D:492:ARG:NH1	2.38	0.57
1:F:45:GLY:N	1:G:225:ASP:OD1	2.29	0.57
1:G:491:ARG:O	1:G:492:ARG:NH1	2.38	0.57
1:I:177:MET:HA	1:I:185:TRP:CD1	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:302:ALA:O	1:J:351:TYR:OH	2.17	0.57
1:O:511:HIS:CD2	1:P:218:PHE:HB2	2.40	0.57
1:P:491:ARG:O	1:P:492:ARG:NH1	2.38	0.57
1:j:491:ARG:O	1:j:492:ARG:NH1	2.38	0.57
1:m:45:GLY:N	1:s:225:ASP:OD1	2.29	0.57
1:t:491:ARG:O	1:t:492:ARG:NH1	2.38	0.57
1:1:64:VAL:HA	1:1:187:LEU:HD12	1.87	0.57
1:4:64:VAL:HA	1:4:187:LEU:HD12	1.87	0.57
1:4:410:THR:H	1:4:413:ASN:ND2	2.01	0.57
1:5:177:MET:HA	1:5:185:TRP:CD1	2.39	0.57
1:6:410:THR:H	1:6:413:ASN:ND2	2.01	0.57
1:7:177:MET:HA	1:7:185:TRP:CD1	2.39	0.57
1:B:488:ARG:O	1:I:109:GLN:NE2	2.37	0.57
1:D:109:GLN:NE2	1:M:488:ARG:O	2.37	0.57
1:E:109:GLN:NE2	1:P:488:ARG:O	2.37	0.57
1:Z:381:ALA:HB3	1:4:318:VAL:HG22	1.85	0.57
1:k:491:ARG:O	1:k:492:ARG:NH1	2.38	0.57
1:2:302:ALA:O	1:2:351:TYR:OH	2.17	0.57
1:3:318:VAL:HG22	1:4:381:ALA:HB3	1.87	0.57
1:H:177:MET:HA	1:H:185:TRP:CD1	2.39	0.56
1:P:511:HIS:CD2	1:Q:218:PHE:HB2	2.40	0.56
1:T:302:ALA:O	1:T:351:TYR:OH	2.17	0.56
1:h:488:ARG:O	1:k:109:GLN:NE2	2.37	0.56
1:l:491:ARG:O	1:l:492:ARG:NH1	2.38	0.56
1:o:488:ARG:O	1:6:109:GLN:NE2	2.37	0.56
1:p:302:ALA:O	1:p:351:TYR:OH	2.17	0.56
1:u:109:GLN:NE2	1:1:488:ARG:O	2.37	0.56
1:K:511:HIS:CD2	1:L:218:PHE:HB2	2.41	0.56
1:O:491:ARG:O	1:O:492:ARG:NH1	2.38	0.56
1:U:491:ARG:O	1:U:492:ARG:NH1	2.38	0.56
1:X:64:VAL:HA	1:X:187:LEU:HD12	1.87	0.56
1:j:511:HIS:CD2	1:x:218:PHE:HB2	2.40	0.56
1:m:511:HIS:CD2	1:s:218:PHE:HB2	2.40	0.56
1:o:64:VAL:HA	1:o:187:LEU:HD12	1.87	0.56
1:A:488:ARG:O	1:F:109:GLN:NE2	2.38	0.56
1:B:177:MET:HA	1:B:185:TRP:CD1	2.39	0.56
1:D:177:MET:HA	1:D:185:TRP:CD1	2.39	0.56
1:H:64:VAL:HA	1:H:187:LEU:HD12	1.87	0.56
1:H:511:HIS:CD2	1:I:218:PHE:HB2	2.40	0.56
1:K:406:ARG:HH12	1:K:429:ASP:HA	1.71	0.56
1:L:511:HIS:CD2	1:b:218:PHE:HB2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:64:VAL:HA	1:N:187:LEU:HD12	1.87	0.56
1:Q:491:ARG:O	1:Q:492:ARG:NH1	2.38	0.56
1:S:491:ARG:O	1:S:492:ARG:NH1	2.38	0.56
1:T:45:GLY:N	1:U:225:ASP:OD1	2.30	0.56
1:T:511:HIS:CD2	1:U:218:PHE:HB2	2.41	0.56
1:U:177:MET:HA	1:U:185:TRP:CD1	2.39	0.56
1:V:302:ALA:O	1:V:351:TYR:OH	2.17	0.56
1:W:109:GLN:NE2	1:X:488:ARG:O	2.37	0.56
1:Z:225:ASP:OD1	1:a:45:GLY:N	2.30	0.56
1:Z:406:ARG:HH12	1:Z:429:ASP:HA	1.71	0.56
1:b:204:ASP:OD1	1:b:205:ALA:N	2.37	0.56
1:f:204:ASP:OD1	1:f:205:ALA:N	2.37	0.56
1:h:109:GLN:NE2	1:k:488:ARG:O	2.37	0.56
1:s:177:MET:HA	1:s:185:TRP:CD1	2.39	0.56
1:s:491:ARG:O	1:s:492:ARG:NH1	2.38	0.56
1:t:225:ASP:OD1	1:y:45:GLY:N	2.30	0.56
1:u:218:PHE:HB2	1:5:511:HIS:CD2	2.40	0.56
1:v:218:PHE:HB2	1:1:511:HIS:CD2	2.40	0.56
1:x:491:ARG:O	1:x:492:ARG:NH1	2.38	0.56
1:1:177:MET:HA	1:1:185:TRP:CD1	2.39	0.56
1:3:45:GLY:N	1:8:225:ASP:OD1	2.30	0.56
1:4:406:ARG:HH12	1:4:429:ASP:HA	1.71	0.56
1:5:64:VAL:HA	1:5:187:LEU:HD12	1.87	0.56
1:8:406:ARG:HH12	1:8:429:ASP:HA	1.71	0.56
1:H:406:ARG:HH12	1:H:429:ASP:HA	1.71	0.56
1:V:177:MET:HA	1:V:185:TRP:CD1	2.39	0.56
1:V:204:ASP:OD1	1:V:205:ALA:N	2.37	0.56
1:f:218:PHE:HB2	1:z:511:HIS:CD2	2.41	0.56
1:h:491:ARG:O	1:h:492:ARG:NH1	2.38	0.56
1:k:177:MET:HA	1:k:185:TRP:CD1	2.39	0.56
1:p:45:GLY:N	1:q:225:ASP:OD1	2.30	0.56
1:p:488:ARG:O	1:s:109:GLN:NE2	2.38	0.56
1:5:406:ARG:HH12	1:5:429:ASP:HA	1.71	0.56
1:A:218:PHE:HB2	1:B:511:HIS:CD2	2.41	0.56
1:A:406:ARG:HH12	1:A:429:ASP:HA	1.71	0.56
1:C:64:VAL:HA	1:C:187:LEU:HD12	1.87	0.56
1:D:488:ARG:O	1:M:109:GLN:NE2	2.37	0.56
1:J:488:ARG:O	1:K:109:GLN:NE2	2.38	0.56
1:M:406:ARG:HH12	1:M:429:ASP:HA	1.71	0.56
1:N:406:ARG:HH12	1:N:429:ASP:HA	1.71	0.56
1:N:491:ARG:O	1:N:492:ARG:NH1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:64:VAL:HA	1:P:187:LEU:HD12	1.87	0.56
1:U:109:GLN:NE2	1:V:488:ARG:O	2.38	0.56
1:d:406:ARG:HH12	1:d:429:ASP:HA	1.71	0.56
1:h:406:ARG:HH12	1:h:429:ASP:HA	1.71	0.56
1:i:64:VAL:HA	1:i:187:LEU:HD12	1.87	0.56
1:i:406:ARG:HH12	1:i:429:ASP:HA	1.71	0.56
1:j:64:VAL:HA	1:j:187:LEU:HD12	1.87	0.56
1:k:218:PHE:HB2	1:w:511:HIS:CD2	2.41	0.56
1:p:177:MET:HA	1:p:185:TRP:CD1	2.39	0.56
1:p:204:ASP:OD1	1:p:205:ALA:N	2.37	0.56
1:r:491:ARG:O	1:r:492:ARG:NH1	2.38	0.56
1:7:488:ARG:O	1:8:109:GLN:NE2	2.38	0.56
1:D:218:PHE:HB2	1:E:511:HIS:CD2	2.41	0.56
1:E:249:GLU:CG	1:E:536:LYS:HD3	2.36	0.56
1:M:491:ARG:O	1:M:492:ARG:NH1	2.38	0.56
1:R:225:ASP:OD1	1:V:45:GLY:N	2.30	0.56
1:W:249:GLU:CG	1:W:536:LYS:HD3	2.36	0.56
1:Z:410:THR:H	1:Z:413:ASN:ND2	2.01	0.56
1:g:64:VAL:HA	1:g:187:LEU:HD12	1.87	0.56
1:n:406:ARG:HH12	1:n:429:ASP:HA	1.71	0.56
1:o:250:ARG:N	1:o:534:ILE:O	2.31	0.56
1:q:64:VAL:HA	1:q:187:LEU:HD12	1.87	0.56
1:u:45:GLY:N	1:2:225:ASP:OD1	2.30	0.56
1:v:406:ARG:HH12	1:v:429:ASP:HA	1.71	0.56
1:w:249:GLU:CG	1:w:536:LYS:HD3	2.36	0.56
1:6:249:GLU:CG	1:6:536:LYS:HD3	2.36	0.56
1:J:249:GLU:CG	1:J:536:LYS:HD3	2.36	0.56
1:R:64:VAL:HA	1:R:187:LEU:HD12	1.87	0.56
1:U:406:ARG:HH12	1:U:429:ASP:HA	1.71	0.56
1:X:250:ARG:N	1:X:534:ILE:O	2.31	0.56
1:Y:249:GLU:CG	1:Y:536:LYS:HD3	2.36	0.56
1:Y:488:ARG:O	1:Z:109:GLN:NE2	2.38	0.56
1:d:99:PHE:O	1:d:105:HIS:HE1	1.89	0.56
1:i:491:ARG:O	1:i:492:ARG:NH1	2.38	0.56
1:j:249:GLU:CG	1:j:536:LYS:HD3	2.36	0.56
1:o:491:ARG:O	1:o:492:ARG:NH1	2.38	0.56
1:w:406:ARG:HH12	1:w:429:ASP:HA	1.71	0.56
1:x:295:THR:HG23	1:x:380:GLN:HB3	1.88	0.56
1:7:249:GLU:CG	1:7:536:LYS:HD3	2.36	0.56
1:A:295:THR:HG23	1:A:380:GLN:HB3	1.88	0.56
1:E:295:THR:HG23	1:E:380:GLN:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:295:THR:HG23	1:F:380:GLN:HB3	1.88	0.56
1:F:406:ARG:HH12	1:F:429:ASP:HA	1.71	0.56
1:K:249:GLU:CG	1:K:536:LYS:HD3	2.36	0.56
1:N:295:THR:HG23	1:N:380:GLN:HB3	1.88	0.56
1:P:249:GLU:CG	1:P:536:LYS:HD3	2.36	0.56
1:Q:295:THR:HG23	1:Q:380:GLN:HB3	1.88	0.56
1:Z:218:PHE:HB2	1:a:511:HIS:CD2	2.41	0.56
1:c:295:THR:HG23	1:c:380:GLN:HB3	1.88	0.56
1:f:250:ARG:N	1:f:534:ILE:O	2.31	0.56
1:g:491:ARG:O	1:g:492:ARG:NH1	2.38	0.56
1:i:295:THR:HG23	1:i:380:GLN:HB3	1.88	0.56
1:l:249:GLU:CG	1:l:536:LYS:HD3	2.36	0.56
1:m:406:ARG:HH12	1:m:429:ASP:HA	1.71	0.56
1:n:99:PHE:O	1:n:105:HIS:HE1	1.89	0.56
1:p:511:HIS:CD2	1:q:218:PHE:HB2	2.41	0.56
1:q:99:PHE:O	1:q:105:HIS:HE1	1.89	0.56
1:v:45:GLY:N	1:w:225:ASP:OD1	2.30	0.56
1:v:295:THR:HG23	1:v:380:GLN:HB3	1.88	0.56
1:2:249:GLU:CG	1:2:536:LYS:HD3	2.36	0.56
1:3:424:LYS:HE2	1:4:429:ASP:HB3	1.86	0.56
1:3:511:HIS:CD2	1:8:218:PHE:HB2	2.41	0.56
1:4:249:GLU:CG	1:4:536:LYS:HD3	2.36	0.56
1:5:218:PHE:HB2	1:8:511:HIS:CD2	2.40	0.56
1:5:491:ARG:O	1:5:492:ARG:NH1	2.38	0.56
1:8:410:THR:H	1:8:413:ASN:ND2	2.01	0.56
1:A:249:GLU:CG	1:A:536:LYS:HD3	2.36	0.56
1:C:491:ARG:O	1:C:492:ARG:NH1	2.38	0.56
1:D:99:PHE:O	1:D:105:HIS:HE1	1.89	0.56
1:G:511:HIS:CD2	1:W:218:PHE:HB2	2.41	0.56
1:H:218:PHE:HB2	1:Z:511:HIS:CD2	2.40	0.56
1:H:491:ARG:O	1:H:492:ARG:NH1	2.38	0.56
1:O:249:GLU:CG	1:O:536:LYS:HD3	2.36	0.56
1:R:99:PHE:O	1:R:105:HIS:HE1	1.89	0.56
1:R:218:PHE:HB2	1:V:511:HIS:CD2	2.41	0.56
1:U:302:ALA:O	1:U:351:TYR:OH	2.17	0.56
1:b:250:ARG:N	1:b:534:ILE:O	2.31	0.56
1:d:64:VAL:HA	1:d:187:LEU:HD12	1.87	0.56
1:e:295:THR:HG23	1:e:380:GLN:HB3	1.88	0.56
1:h:64:VAL:HA	1:h:187:LEU:HD12	1.87	0.56
1:k:99:PHE:O	1:k:105:HIS:HE1	1.89	0.56
1:p:218:PHE:HB2	1:6:511:HIS:CD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:249:GLU:CG	1:v:536:LYS:HD3	2.36	0.56
1:y:295:THR:HG23	1:y:380:GLN:HB3	1.88	0.56
1:3:64:VAL:HA	1:3:187:LEU:HD12	1.87	0.56
1:7:92:THR:O	1:7:189:GLN:NE2	2.39	0.56
1:8:491:ARG:O	1:8:492:ARG:NH1	2.38	0.56
1:E:406:ARG:HH12	1:E:429:ASP:HA	1.71	0.56
1:H:99:PHE:O	1:H:105:HIS:HE1	1.89	0.56
1:M:295:THR:HG23	1:M:380:GLN:HB3	1.88	0.56
1:R:406:ARG:HH12	1:R:429:ASP:HA	1.71	0.56
1:S:99:PHE:O	1:S:105:HIS:HE1	1.89	0.56
1:T:406:ARG:HH12	1:T:429:ASP:HA	1.71	0.56
1:X:491:ARG:O	1:X:492:ARG:NH1	2.38	0.56
1:Y:92:THR:O	1:Y:189:GLN:NE2	2.39	0.56
1:Z:99:PHE:O	1:Z:105:HIS:HE1	1.89	0.56
1:g:511:HIS:CD2	1:1:218:PHE:HB2	2.41	0.56
1:q:249:GLU:CG	1:q:536:LYS:HD3	2.36	0.56
1:s:406:ARG:HH12	1:s:429:ASP:HA	1.71	0.56
1:t:511:HIS:CD2	1:6:218:PHE:HB2	2.41	0.56
1:w:295:THR:HG23	1:w:380:GLN:HB3	1.88	0.56
1:y:406:ARG:HH12	1:y:429:ASP:HA	1.71	0.56
1:A:45:GLY:N	1:E:225:ASP:OD1	2.30	0.55
1:F:99:PHE:O	1:F:105:HIS:HE1	1.89	0.55
1:G:64:VAL:HA	1:G:187:LEU:HD12	1.87	0.55
1:G:406:ARG:HH12	1:G:429:ASP:HA	1.71	0.55
1:M:64:VAL:HA	1:M:187:LEU:HD12	1.87	0.55
1:N:249:GLU:CG	1:N:536:LYS:HD3	2.36	0.55
1:O:295:THR:HG23	1:O:380:GLN:HB3	1.88	0.55
1:P:406:ARG:HH12	1:P:429:ASP:HA	1.71	0.55
1:U:295:THR:HG23	1:U:380:GLN:HB3	1.88	0.55
1:W:406:ARG:HH12	1:W:429:ASP:HA	1.71	0.55
1:Y:406:ARG:HH12	1:Y:429:ASP:HA	1.71	0.55
1:a:64:VAL:HA	1:a:187:LEU:HD12	1.87	0.55
1:a:99:PHE:O	1:a:105:HIS:HE1	1.89	0.55
1:b:406:ARG:HH12	1:b:429:ASP:HA	1.71	0.55
1:e:511:HIS:CD2	1:h:218:PHE:HB2	2.41	0.55
1:i:249:GLU:CG	1:i:536:LYS:HD3	2.36	0.55
1:i:488:ARG:O	1:l:109:GLN:NE2	2.38	0.55
1:j:406:ARG:HH12	1:j:429:ASP:HA	1.71	0.55
1:m:92:THR:O	1:m:189:GLN:NE2	2.39	0.55
1:n:64:VAL:HA	1:n:187:LEU:HD12	1.87	0.55
1:r:99:PHE:O	1:r:105:HIS:HE1	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:249:GLU:CG	1:s:536:LYS:HD3	2.36	0.55
1:t:64:VAL:HA	1:t:187:LEU:HD12	1.87	0.55
1:y:99:PHE:O	1:y:105:HIS:HE1	1.89	0.55
1:1:295:THR:HG23	1:1:380:GLN:HB3	1.88	0.55
1:6:99:PHE:O	1:6:105:HIS:HE1	1.89	0.55
1:6:406:ARG:HH12	1:6:429:ASP:HA	1.71	0.55
1:B:295:THR:HG23	1:B:380:GLN:HB3	1.88	0.55
1:I:92:THR:O	1:I:189:GLN:NE2	2.39	0.55
1:P:295:THR:HG23	1:P:380:GLN:HB3	1.88	0.55
1:T:92:THR:O	1:T:189:GLN:NE2	2.39	0.55
1:T:295:THR:HG23	1:T:380:GLN:HB3	1.88	0.55
1:U:511:HIS:CD2	1:e:218:PHE:HB2	2.40	0.55
1:W:99:PHE:O	1:W:105:HIS:HE1	1.89	0.55
1:Y:64:VAL:HA	1:Y:187:LEU:HD12	1.87	0.55
1:Z:491:ARG:O	1:Z:492:ARG:NH1	2.38	0.55
1:f:406:ARG:HH12	1:f:429:ASP:HA	1.71	0.55
1:h:295:THR:HG23	1:h:380:GLN:HB3	1.88	0.55
1:j:295:THR:HG23	1:j:380:GLN:HB3	1.88	0.55
1:m:295:THR:HG23	1:m:380:GLN:HB3	1.88	0.55
1:q:406:ARG:HH12	1:q:429:ASP:HA	1.71	0.55
1:s:295:THR:HG23	1:s:380:GLN:HB3	1.88	0.55
1:t:406:ARG:HH12	1:t:429:ASP:HA	1.71	0.55
1:x:302:ALA:O	1:x:351:TYR:OH	2.17	0.55
1:y:250:ARG:N	1:y:534:ILE:O	2.31	0.55
1:2:64:VAL:HA	1:2:187:LEU:HD12	1.87	0.55
1:3:99:PHE:O	1:3:105:HIS:HE1	1.89	0.55
1:5:99:PHE:O	1:5:105:HIS:HE1	1.89	0.55
1:8:99:PHE:O	1:8:105:HIS:HE1	1.89	0.55
1:I:64:VAL:HA	1:I:187:LEU:HD12	1.87	0.55
1:J:64:VAL:HA	1:J:187:LEU:HD12	1.87	0.55
1:M:218:PHE:HB2	1:c:511:HIS:CD2	2.41	0.55
1:N:488:ARG:O	1:O:109:GLN:NE2	2.38	0.55
1:O:99:PHE:O	1:O:105:HIS:HE1	1.89	0.55
1:Q:302:ALA:O	1:Q:351:TYR:OH	2.17	0.55
1:R:249:GLU:CG	1:R:536:LYS:HD3	2.36	0.55
1:V:249:GLU:CG	1:V:536:LYS:HD3	2.36	0.55
1:V:406:ARG:HH12	1:V:429:ASP:HA	1.71	0.55
1:Y:295:THR:HG23	1:Y:380:GLN:HB3	1.88	0.55
1:e:92:THR:O	1:e:189:GLN:NE2	2.39	0.55
1:l:295:THR:HG23	1:l:380:GLN:HB3	1.88	0.55
1:p:64:VAL:HA	1:p:187:LEU:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:92:THR:O	1:u:189:GLN:NE2	2.39	0.55
1:x:250:ARG:N	1:x:534:ILE:O	2.31	0.55
1:y:491:ARG:O	1:y:492:ARG:NH1	2.38	0.55
1:7:295:THR:HG23	1:7:380:GLN:HB3	1.88	0.55
1:7:406:ARG:HH12	1:7:429:ASP:HA	1.71	0.55
1:F:491:ARG:O	1:F:492:ARG:NH1	2.38	0.55
1:G:99:PHE:O	1:G:105:HIS:HE1	1.89	0.55
1:J:99:PHE:O	1:J:105:HIS:HE1	1.89	0.55
1:K:218:PHE:HB2	1:7:511:HIS:CD2	2.42	0.55
1:K:225:ASP:OD1	1:7:45:GLY:N	2.30	0.55
1:M:511:HIS:CD2	1:N:218:PHE:HB2	2.42	0.55
1:V:218:PHE:HB2	1:W:511:HIS:CD2	2.41	0.55
1:X:99:PHE:O	1:X:105:HIS:HE1	1.89	0.55
1:X:249:GLU:CG	1:X:536:LYS:HD3	2.36	0.55
1:Z:348:ASP:OD1	1:Z:349:LEU:N	2.39	0.55
1:c:92:THR:O	1:c:189:GLN:NE2	2.39	0.55
1:d:249:GLU:CG	1:d:536:LYS:HD3	2.36	0.55
1:h:511:HIS:CD2	1:i:218:PHE:HB2	2.42	0.55
1:l:406:ARG:HH12	1:l:429:ASP:HA	1.71	0.55
1:n:249:GLU:CG	1:n:536:LYS:HD3	2.36	0.55
1:o:249:GLU:CG	1:o:536:LYS:HD3	2.36	0.55
1:r:406:ARG:HH12	1:r:429:ASP:HA	1.71	0.55
1:t:99:PHE:O	1:t:105:HIS:HE1	1.89	0.55
1:u:64:VAL:HA	1:u:187:LEU:HD12	1.87	0.55
1:u:99:PHE:O	1:u:105:HIS:HE1	1.89	0.55
1:u:295:THR:HG23	1:u:380:GLN:HB3	1.88	0.55
1:u:406:ARG:HH12	1:u:429:ASP:HA	1.71	0.55
1:x:64:VAL:HA	1:x:187:LEU:HD12	1.87	0.55
1:3:354:GLN:HG3	1:4:268:ALA:HB3	1.88	0.55
1:4:99:PHE:O	1:4:105:HIS:HE1	1.89	0.55
1:C:249:GLU:CG	1:C:536:LYS:HD3	2.36	0.55
1:G:246:ILE:HD11	1:G:435:LEU:HD11	1.89	0.55
1:I:99:PHE:O	1:I:105:HIS:HE1	1.89	0.55
1:I:406:ARG:HH12	1:I:429:ASP:HA	1.71	0.55
1:K:99:PHE:O	1:K:105:HIS:HE1	1.89	0.55
1:L:246:ILE:HD11	1:L:435:LEU:HD11	1.89	0.55
1:Q:64:VAL:HA	1:Q:187:LEU:HD12	1.87	0.55
1:Q:249:GLU:CG	1:Q:536:LYS:HD3	2.36	0.55
1:V:246:ILE:HD11	1:V:435:LEU:HD11	1.89	0.55
1:c:64:VAL:HA	1:c:187:LEU:HD12	1.87	0.55
1:c:218:PHE:HB2	1:s:511:HIS:CD2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:246:ILE:HD11	1:p:435:LEU:HD11	1.89	0.55
1:p:249:GLU:CG	1:p:536:LYS:HD3	2.36	0.55
1:v:246:ILE:HD11	1:v:435:LEU:HD11	1.89	0.55
1:v:511:HIS:CD2	1:w:218:PHE:HB2	2.41	0.55
1:z:246:ILE:HD11	1:z:435:LEU:HD11	1.89	0.55
1:z:406:ARG:HH12	1:z:429:ASP:HA	1.71	0.55
1:7:64:VAL:HA	1:7:187:LEU:HD12	1.87	0.55
1:A:246:ILE:HD11	1:A:435:LEU:HD11	1.89	0.55
1:C:246:ILE:HD11	1:C:435:LEU:HD11	1.89	0.55
1:D:295:THR:HG23	1:D:380:GLN:HB3	1.88	0.55
1:H:295:THR:HG23	1:H:380:GLN:HB3	1.88	0.55
1:I:295:THR:HG23	1:I:380:GLN:HB3	1.88	0.55
1:J:92:THR:O	1:J:189:GLN:NE2	2.39	0.55
1:J:511:HIS:CD2	1:a:218:PHE:HB2	2.42	0.55
1:Q:250:ARG:N	1:Q:534:ILE:O	2.31	0.55
1:Q:406:ARG:HH12	1:Q:429:ASP:HA	1.71	0.55
1:S:246:ILE:HD11	1:S:435:LEU:HD11	1.89	0.55
1:S:348:ASP:CG	1:S:349:LEU:H	2.15	0.55
1:V:64:VAL:HA	1:V:187:LEU:HD12	1.87	0.55
1:W:250:ARG:N	1:W:534:ILE:O	2.31	0.55
1:Y:348:ASP:CG	1:Y:349:LEU:H	2.15	0.55
1:Z:348:ASP:CG	1:Z:349:LEU:H	2.15	0.55
1:b:64:VAL:HA	1:b:187:LEU:HD12	1.87	0.55
1:e:64:VAL:HA	1:e:187:LEU:HD12	1.87	0.55
1:g:246:ILE:HD11	1:g:435:LEU:HD11	1.89	0.55
1:i:302:ALA:O	1:i:351:TYR:OH	2.17	0.55
1:k:295:THR:HG23	1:k:380:GLN:HB3	1.88	0.55
1:l:99:PHE:O	1:l:105:HIS:HE1	1.89	0.55
1:o:99:PHE:O	1:o:105:HIS:HE1	1.89	0.55
1:q:511:HIS:CD2	1:y:218:PHE:HB2	2.40	0.55
1:r:249:GLU:CG	1:r:536:LYS:HD3	2.36	0.55
1:r:348:ASP:CG	1:r:349:LEU:H	2.15	0.55
1:2:99:PHE:O	1:2:105:HIS:HE1	1.89	0.55
1:5:295:THR:HG23	1:5:380:GLN:HB3	1.88	0.55
1:7:348:ASP:CG	1:7:349:LEU:H	2.15	0.55
1:F:348:ASP:CG	1:F:349:LEU:H	2.15	0.55
1:G:295:THR:HG23	1:G:380:GLN:HB3	1.88	0.55
1:G:348:ASP:CG	1:G:349:LEU:H	2.15	0.55
1:L:249:GLU:CG	1:L:536:LYS:HD3	2.36	0.55
1:N:302:ALA:O	1:N:351:TYR:OH	2.17	0.55
1:O:218:PHE:HB2	1:d:511:HIS:CD2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:246:ILE:HD11	1:O:435:LEU:HD11	1.89	0.55
1:O:406:ARG:HH12	1:O:429:ASP:HA	1.71	0.55
1:P:99:PHE:O	1:P:105:HIS:HE1	1.89	0.55
1:P:348:ASP:CG	1:P:349:LEU:H	2.15	0.55
1:Q:348:ASP:OD1	1:Q:349:LEU:N	2.39	0.55
1:S:249:GLU:CG	1:S:536:LYS:HD3	2.36	0.55
1:V:99:PHE:O	1:V:105:HIS:HE1	1.89	0.55
1:b:295:THR:HG23	1:b:380:GLN:HB3	1.88	0.55
1:g:249:GLU:CG	1:g:536:LYS:HD3	2.36	0.55
1:g:406:ARG:HH12	1:g:429:ASP:HA	1.71	0.55
1:j:99:PHE:O	1:j:105:HIS:HE1	1.89	0.55
1:l:218:PHE:HB2	1:n:511:HIS:CD2	2.41	0.55
1:p:406:ARG:HH12	1:p:429:ASP:HA	1.71	0.55
1:q:302:ALA:O	1:q:351:TYR:OH	2.17	0.55
1:r:68:ASN:HB2	1:r:189:GLN:NE2	2.22	0.55
1:t:246:ILE:HD11	1:t:435:LEU:HD11	1.89	0.55
1:x:249:GLU:CG	1:x:536:LYS:HD3	2.36	0.55
1:x:348:ASP:OD1	1:x:349:LEU:N	2.39	0.55
1:x:406:ARG:HH12	1:x:429:ASP:HA	1.71	0.55
1:y:348:ASP:CG	1:y:349:LEU:H	2.15	0.55
1:2:92:THR:O	1:2:189:GLN:NE2	2.39	0.55
1:2:406:ARG:HH12	1:2:429:ASP:HA	1.71	0.55
1:4:246:ILE:HD11	1:4:435:LEU:HD11	1.89	0.55
1:5:348:ASP:OD1	1:5:349:LEU:N	2.39	0.55
1:5:423:ASP:OD2	1:7:531:LYS:NZ	2.29	0.55
1:6:250:ARG:N	1:6:534:ILE:O	2.31	0.55
1:6:348:ASP:OD1	1:6:349:LEU:N	2.39	0.55
1:8:348:ASP:CG	1:8:349:LEU:H	2.15	0.55
1:A:348:ASP:CG	1:A:349:LEU:H	2.15	0.55
1:A:511:HIS:CD2	1:E:218:PHE:HB2	2.41	0.55
1:E:68:ASN:HB2	1:E:189:GLN:NE2	2.22	0.55
1:F:246:ILE:HD11	1:F:435:LEU:HD11	1.89	0.55
1:F:511:HIS:CD2	1:G:218:PHE:HB2	2.41	0.55
1:K:246:ILE:HD11	1:K:435:LEU:HD11	1.89	0.55
1:L:406:ARG:HH12	1:L:429:ASP:HA	1.71	0.55
1:S:68:ASN:HB2	1:S:189:GLN:NE2	2.22	0.55
1:S:406:ARG:HH12	1:S:429:ASP:HA	1.71	0.55
1:W:348:ASP:OD1	1:W:349:LEU:N	2.39	0.55
1:X:218:PHE:HB2	1:f:511:HIS:CD2	2.41	0.55
1:Z:295:THR:HG23	1:Z:380:GLN:HB3	1.88	0.55
1:b:511:HIS:CD2	1:o:218:PHE:HB2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:64:VAL:HA	1:f:187:LEU:HD12	1.87	0.55
1:f:249:GLU:CG	1:f:536:LYS:HD3	2.36	0.55
1:f:295:THR:HG23	1:f:380:GLN:HB3	1.88	0.55
1:h:92:THR:O	1:h:189:GLN:NE2	2.39	0.55
1:j:246:ILE:HD11	1:j:435:LEU:HD11	1.89	0.55
1:l:246:ILE:HD11	1:l:435:LEU:HD11	1.89	0.55
1:p:99:PHE:O	1:p:105:HIS:HE1	1.89	0.55
1:r:246:ILE:HD11	1:r:435:LEU:HD11	1.89	0.55
1:t:295:THR:HG23	1:t:380:GLN:HB3	1.88	0.55
1:t:348:ASP:CG	1:t:349:LEU:H	2.15	0.55
1:v:348:ASP:CG	1:v:349:LEU:H	2.15	0.55
1:w:68:ASN:HB2	1:w:189:GLN:NE2	2.22	0.55
1:z:218:PHE:HB2	1:4:511:HIS:CD2	2.42	0.55
1:z:249:GLU:CG	1:z:536:LYS:HD3	2.36	0.55
1:2:511:HIS:CD2	1:3:218:PHE:HB2	2.42	0.55
1:5:92:THR:O	1:5:189:GLN:NE2	2.39	0.55
1:B:218:PHE:HB2	1:C:511:HIS:CD2	2.41	0.55
1:C:92:THR:O	1:C:189:GLN:NE2	2.39	0.55
1:C:406:ARG:HH12	1:C:429:ASP:HA	1.71	0.55
1:D:68:ASN:HB2	1:D:189:GLN:NE2	2.22	0.55
1:E:99:PHE:O	1:E:105:HIS:HE1	1.89	0.55
1:H:68:ASN:HB2	1:H:189:GLN:NE2	2.22	0.55
1:H:92:THR:O	1:H:189:GLN:NE2	2.39	0.55
1:H:348:ASP:OD1	1:H:349:LEU:N	2.39	0.55
1:J:295:THR:HG23	1:J:380:GLN:HB3	1.88	0.55
1:J:406:ARG:HH12	1:J:429:ASP:HA	1.71	0.55
1:M:79:PRO:HG3	1:b:287:TYR:CZ	2.42	0.55
1:M:423:ASP:OD2	1:b:531:LYS:NZ	2.29	0.55
1:P:246:ILE:HD11	1:P:435:LEU:HD11	1.89	0.55
1:Q:68:ASN:HB2	1:Q:189:GLN:NE2	2.22	0.55
1:R:68:ASN:HB2	1:R:189:GLN:NE2	2.22	0.55
1:R:295:THR:HG23	1:R:380:GLN:HB3	1.88	0.55
1:T:348:ASP:CG	1:T:349:LEU:H	2.15	0.55
1:W:295:THR:HG23	1:W:380:GLN:HB3	1.88	0.55
1:a:92:THR:O	1:a:189:GLN:NE2	2.39	0.55
1:b:249:GLU:CG	1:b:536:LYS:HD3	2.36	0.55
1:c:246:ILE:HD11	1:c:435:LEU:HD11	1.89	0.55
1:e:249:GLU:CG	1:e:536:LYS:HD3	2.36	0.55
1:f:68:ASN:HB2	1:f:189:GLN:NE2	2.22	0.55
1:g:99:PHE:O	1:g:105:HIS:HE1	1.89	0.55
1:j:348:ASP:CG	1:j:349:LEU:H	2.15	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:68:ASN:HB2	1:q:189:GLN:NE2	2.22	0.55
1:q:295:THR:HG23	1:q:380:GLN:HB3	1.88	0.55
1:t:218:PHE:HB2	1:y:511:HIS:CD2	2.41	0.55
1:u:249:GLU:CG	1:u:536:LYS:HD3	2.36	0.55
1:v:225:ASP:OD1	1:1:45:GLY:N	2.30	0.55
1:x:68:ASN:HB2	1:x:189:GLN:NE2	2.22	0.55
1:y:246:ILE:HD11	1:y:435:LEU:HD11	1.89	0.55
1:2:295:THR:HG23	1:2:380:GLN:HB3	1.88	0.55
1:3:249:GLU:CG	1:3:536:LYS:HD3	2.36	0.55
1:5:68:ASN:HB2	1:5:189:GLN:NE2	2.22	0.55
1:6:68:ASN:HB2	1:6:189:GLN:NE2	2.22	0.55
1:C:99:PHE:O	1:C:105:HIS:HE1	1.89	0.55
1:C:423:ASP:OD2	1:M:531:LYS:NZ	2.28	0.55
1:I:68:ASN:HB2	1:I:189:GLN:NE2	2.22	0.55
1:I:249:GLU:CG	1:I:536:LYS:HD3	2.36	0.55
1:I:511:HIS:CD2	1:J:218:PHE:HB2	2.41	0.55
1:K:68:ASN:HB2	1:K:189:GLN:NE2	2.22	0.55
1:N:92:THR:O	1:N:189:GLN:NE2	2.39	0.55
1:R:302:ALA:O	1:R:351:TYR:OH	2.17	0.55
1:U:68:ASN:HB2	1:U:189:GLN:NE2	2.22	0.55
1:W:68:ASN:HB2	1:W:189:GLN:NE2	2.22	0.55
1:X:406:ARG:HH12	1:X:429:ASP:HA	1.71	0.55
1:b:68:ASN:HB2	1:b:189:GLN:NE2	2.22	0.55
1:c:68:ASN:HB2	1:c:189:GLN:NE2	2.22	0.55
1:e:68:ASN:HB2	1:e:189:GLN:NE2	2.22	0.55
1:e:246:ILE:HD11	1:e:435:LEU:HD11	1.89	0.55
1:g:92:THR:O	1:g:189:GLN:NE2	2.39	0.55
1:h:249:GLU:CG	1:h:536:LYS:HD3	2.36	0.55
1:i:99:PHE:O	1:i:105:HIS:HE1	1.89	0.55
1:k:68:ASN:HB2	1:k:189:GLN:NE2	2.22	0.55
1:m:348:ASP:CG	1:m:349:LEU:H	2.15	0.55
1:o:246:ILE:HD11	1:o:435:LEU:HD11	1.89	0.55
1:s:68:ASN:HB2	1:s:189:GLN:NE2	2.22	0.55
1:z:68:ASN:HB2	1:z:189:GLN:NE2	2.22	0.55
1:z:491:ARG:O	1:z:492:ARG:NH1	2.38	0.55
1:1:491:ARG:O	1:1:492:ARG:NH1	2.38	0.55
1:4:68:ASN:HB2	1:4:189:GLN:NE2	2.22	0.55
1:8:295:THR:HG23	1:8:380:GLN:HB3	1.88	0.55
1:B:406:ARG:HH12	1:B:429:ASP:HA	1.71	0.54
1:B:491:ARG:O	1:B:492:ARG:NH1	2.38	0.54
1:C:218:PHE:HB2	1:D:511:HIS:CD2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:79:PRO:HG3	1:F:287:TYR:CZ	2.42	0.54
1:E:287:TYR:CZ	1:Q:79:PRO:HG3	2.42	0.54
1:F:218:PHE:HB2	1:R:511:HIS:CD2	2.41	0.54
1:G:92:THR:O	1:G:189:GLN:NE2	2.39	0.54
1:I:379:ASP:OD1	1:I:380:GLN:N	2.41	0.54
1:I:491:ARG:O	1:I:492:ARG:NH1	2.38	0.54
1:L:68:ASN:HB2	1:L:189:GLN:NE2	2.22	0.54
1:L:99:PHE:O	1:L:105:HIS:HE1	1.89	0.54
1:L:295:THR:HG23	1:L:380:GLN:HB3	1.88	0.54
1:M:92:THR:O	1:M:189:GLN:NE2	2.39	0.54
1:P:68:ASN:HB2	1:P:189:GLN:NE2	2.22	0.54
1:S:295:THR:HG23	1:S:380:GLN:HB3	1.88	0.54
1:V:68:ASN:HB2	1:V:189:GLN:NE2	2.22	0.54
1:V:295:THR:HG23	1:V:380:GLN:HB3	1.88	0.54
1:X:246:ILE:HD11	1:X:435:LEU:HD11	1.89	0.54
1:a:249:GLU:CG	1:a:536:LYS:HD3	2.36	0.54
1:c:249:GLU:CG	1:c:536:LYS:HD3	2.36	0.54
1:c:348:ASP:CG	1:c:349:LEU:H	2.15	0.54
1:c:406:ARG:HH12	1:c:429:ASP:HA	1.71	0.54
1:e:348:ASP:CG	1:e:349:LEU:H	2.15	0.54
1:e:406:ARG:HH12	1:e:429:ASP:HA	1.71	0.54
1:f:287:TYR:CZ	1:h:79:PRO:HG3	2.43	0.54
1:i:531:LYS:NZ	1:j:423:ASP:OD2	2.29	0.54
1:o:406:ARG:HH12	1:o:429:ASP:HA	1.71	0.54
1:p:68:ASN:HB2	1:p:189:GLN:NE2	2.22	0.54
1:r:295:THR:HG23	1:r:380:GLN:HB3	1.88	0.54
1:u:68:ASN:HB2	1:u:189:GLN:NE2	2.22	0.54
1:u:379:ASP:OD1	1:u:380:GLN:N	2.41	0.54
1:u:491:ARG:O	1:u:492:ARG:NH1	2.38	0.54
1:w:99:PHE:O	1:w:105:HIS:HE1	1.89	0.54
1:w:287:TYR:CZ	1:x:79:PRO:HG3	2.42	0.54
1:z:99:PHE:O	1:z:105:HIS:HE1	1.89	0.54
1:3:92:THR:O	1:3:189:GLN:NE2	2.39	0.54
1:3:295:THR:HG23	1:3:380:GLN:HB3	1.88	0.54
1:4:295:THR:HG23	1:4:380:GLN:HB3	1.88	0.54
1:4:491:ARG:O	1:4:492:ARG:NH1	2.38	0.54
1:6:295:THR:HG23	1:6:380:GLN:HB3	1.88	0.54
1:7:246:ILE:HD11	1:7:435:LEU:HD11	1.89	0.54
1:A:225:ASP:OD1	1:B:45:GLY:N	2.30	0.54
1:B:92:THR:O	1:B:189:GLN:NE2	2.39	0.54
1:B:249:GLU:CG	1:B:536:LYS:HD3	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:293:TRP:CE3	1:B:403:ILE:HD11	2.43	0.54
1:D:246:ILE:HD11	1:D:435:LEU:HD11	1.89	0.54
1:E:246:ILE:HD11	1:E:435:LEU:HD11	1.89	0.54
1:E:293:TRP:CE3	1:E:403:ILE:HD11	2.43	0.54
1:G:287:TYR:CZ	1:I:79:PRO:HG3	2.43	0.54
1:I:348:ASP:CG	1:I:349:LEU:H	2.15	0.54
1:K:293:TRP:CE3	1:K:403:ILE:HD11	2.43	0.54
1:K:295:THR:HG23	1:K:380:GLN:HB3	1.88	0.54
1:K:348:ASP:CG	1:K:349:LEU:H	2.15	0.54
1:L:491:ARG:O	1:L:492:ARG:NH1	2.38	0.54
1:M:249:GLU:CG	1:M:536:LYS:HD3	2.36	0.54
1:M:348:ASP:CG	1:M:349:LEU:H	2.15	0.54
1:M:379:ASP:OD1	1:M:380:GLN:N	2.41	0.54
1:N:531:LYS:NZ	1:P:423:ASP:OD2	2.29	0.54
1:O:348:ASP:CG	1:O:349:LEU:H	2.15	0.54
1:Z:68:ASN:HB2	1:Z:189:GLN:NE2	2.22	0.54
1:a:295:THR:HG23	1:a:380:GLN:HB3	1.88	0.54
1:a:406:ARG:HH12	1:a:429:ASP:HA	1.71	0.54
1:c:99:PHE:O	1:c:105:HIS:HE1	1.89	0.54
1:d:246:ILE:HD11	1:d:435:LEU:HD11	1.89	0.54
1:d:302:ALA:O	1:d:351:TYR:OH	2.17	0.54
1:f:531:LYS:NZ	1:h:423:ASP:OD2	2.29	0.54
1:g:218:PHE:HB2	1:k:511:HIS:CD2	2.41	0.54
1:h:379:ASP:OD1	1:h:380:GLN:N	2.41	0.54
1:i:92:THR:O	1:i:189:GLN:NE2	2.39	0.54
1:i:349:LEU:HD11	1:i:369:ILE:HD13	1.90	0.54
1:j:68:ASN:HB2	1:j:189:GLN:NE2	2.22	0.54
1:k:246:ILE:HD11	1:k:435:LEU:HD11	1.89	0.54
1:p:295:THR:HG23	1:p:380:GLN:HB3	1.88	0.54
1:t:92:THR:O	1:t:189:GLN:NE2	2.39	0.54
1:t:287:TYR:CZ	1:u:79:PRO:HG3	2.42	0.54
1:u:348:ASP:CG	1:u:349:LEU:H	2.15	0.54
1:w:246:ILE:HD11	1:w:435:LEU:HD11	1.89	0.54
1:w:293:TRP:CE3	1:w:403:ILE:HD11	2.43	0.54
1:1:92:THR:O	1:1:189:GLN:NE2	2.39	0.54
1:1:293:TRP:CE3	1:1:403:ILE:HD11	2.43	0.54
1:3:406:ARG:HH12	1:3:429:ASP:HA	1.71	0.54
1:4:348:ASP:CG	1:4:349:LEU:H	2.15	0.54
1:C:295:THR:HG23	1:C:380:GLN:HB3	1.88	0.54
1:J:287:TYR:CZ	1:L:79:PRO:HG3	2.43	0.54
1:K:79:PRO:HG3	1:8:287:TYR:CZ	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:491:ARG:O	1:K:492:ARG:NH1	2.38	0.54
1:L:348:ASP:CG	1:L:349:LEU:H	2.15	0.54
1:M:99:PHE:O	1:M:105:HIS:HE1	1.89	0.54
1:N:99:PHE:O	1:N:105:HIS:HE1	1.89	0.54
1:Q:99:PHE:O	1:Q:105:HIS:HE1	1.89	0.54
1:Q:246:ILE:HD11	1:Q:435:LEU:HD11	1.89	0.54
1:Q:348:ASP:CG	1:Q:349:LEU:H	2.15	0.54
1:R:246:ILE:HD11	1:R:435:LEU:HD11	1.89	0.54
1:S:92:THR:O	1:S:189:GLN:NE2	2.39	0.54
1:T:79:PRO:HG3	1:l:287:TYR:CZ	2.43	0.54
1:V:92:THR:O	1:V:189:GLN:NE2	2.39	0.54
1:V:379:ASP:OD1	1:V:380:GLN:N	2.41	0.54
1:W:246:ILE:HD11	1:W:435:LEU:HD11	1.89	0.54
1:X:295:THR:HG23	1:X:380:GLN:HB3	1.88	0.54
1:X:348:ASP:OD1	1:X:349:LEU:N	2.39	0.54
1:Y:246:ILE:HD11	1:Y:435:LEU:HD11	1.89	0.54
1:a:68:ASN:HB2	1:a:189:GLN:NE2	2.22	0.54
1:l:348:ASP:CG	1:l:349:LEU:H	2.15	0.54
1:n:246:ILE:HD11	1:n:435:LEU:HD11	1.89	0.54
1:p:491:ARG:O	1:p:492:ARG:NH1	2.38	0.54
1:r:92:THR:O	1:r:189:GLN:NE2	2.39	0.54
1:r:293:TRP:CE3	1:r:403:ILE:HD11	2.43	0.54
1:t:79:PRO:HG3	1:v:287:TYR:CZ	2.43	0.54
1:u:511:HIS:CD2	1:2:218:PHE:HB2	2.41	0.54
1:v:349:LEU:HD11	1:v:369:ILE:HD13	1.90	0.54
1:x:246:ILE:HD11	1:x:435:LEU:HD11	1.89	0.54
1:y:68:ASN:HB2	1:y:189:GLN:NE2	2.22	0.54
1:y:379:ASP:OD1	1:y:380:GLN:N	2.41	0.54
1:z:295:THR:HG23	1:z:380:GLN:HB3	1.88	0.54
1:z:348:ASP:CG	1:z:349:LEU:H	2.15	0.54
1:2:68:ASN:HB2	1:2:189:GLN:NE2	2.22	0.54
1:4:92:THR:O	1:4:189:GLN:NE2	2.39	0.54
1:4:293:TRP:CE3	1:4:403:ILE:HD11	2.43	0.54
1:6:379:ASP:OD1	1:6:380:GLN:N	2.41	0.54
1:8:68:ASN:HB2	1:8:189:GLN:NE2	2.22	0.54
1:A:349:LEU:HD11	1:A:369:ILE:HD13	1.90	0.54
1:E:491:ARG:O	1:E:492:ARG:NH1	2.38	0.54
1:F:68:ASN:HB2	1:F:189:GLN:NE2	2.22	0.54
1:F:379:ASP:OD1	1:F:380:GLN:N	2.41	0.54
1:J:68:ASN:HB2	1:J:189:GLN:NE2	2.22	0.54
1:J:293:TRP:CE3	1:J:403:ILE:HD11	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:287:TYR:CZ	1:m:79:PRO:HG3	2.43	0.54
1:S:349:LEU:HD11	1:S:369:ILE:HD13	1.90	0.54
1:S:511:HIS:CD2	1:d:218:PHE:HB2	2.42	0.54
1:U:99:PHE:O	1:U:105:HIS:HE1	1.89	0.54
1:V:348:ASP:CG	1:V:349:LEU:H	2.15	0.54
1:V:349:LEU:HD11	1:V:369:ILE:HD13	1.90	0.54
1:W:379:ASP:OD1	1:W:380:GLN:N	2.41	0.54
1:a:246:ILE:HD11	1:a:435:LEU:HD11	1.89	0.54
1:a:293:TRP:CE3	1:a:403:ILE:HD11	2.43	0.54
1:e:99:PHE:O	1:e:105:HIS:HE1	1.89	0.54
1:g:348:ASP:CG	1:g:349:LEU:H	2.15	0.54
1:h:348:ASP:CG	1:h:349:LEU:H	2.15	0.54
1:i:246:ILE:HD11	1:i:435:LEU:HD11	1.89	0.54
1:k:293:TRP:CE3	1:k:403:ILE:HD11	2.43	0.54
1:k:406:ARG:HH12	1:k:429:ASP:HA	1.71	0.54
1:l:293:TRP:CE3	1:l:403:ILE:HD11	2.43	0.54
1:m:491:ARG:O	1:m:492:ARG:NH1	2.38	0.54
1:o:348:ASP:OD1	1:o:349:LEU:N	2.39	0.54
1:p:348:ASP:CG	1:p:349:LEU:H	2.15	0.54
1:q:246:ILE:HD11	1:q:435:LEU:HD11	1.89	0.54
1:q:293:TRP:CE3	1:q:403:ILE:HD11	2.43	0.54
1:s:99:PHE:O	1:s:105:HIS:HE1	1.89	0.54
1:x:348:ASP:CG	1:x:349:LEU:H	2.15	0.54
1:1:249:GLU:CG	1:1:536:LYS:HD3	2.36	0.54
1:3:68:ASN:HB2	1:3:189:GLN:NE2	2.22	0.54
1:3:246:ILE:HD11	1:3:435:LEU:HD11	1.89	0.54
1:3:293:TRP:CE3	1:3:403:ILE:HD11	2.43	0.54
1:6:246:ILE:HD11	1:6:435:LEU:HD11	1.89	0.54
1:A:287:TYR:CZ	1:G:79:PRO:HG3	2.43	0.54
1:B:246:ILE:HD11	1:B:435:LEU:HD11	1.89	0.54
1:C:293:TRP:CE3	1:C:403:ILE:HD11	2.43	0.54
1:C:348:ASP:CG	1:C:349:LEU:H	2.15	0.54
1:G:379:ASP:OD1	1:G:380:GLN:N	2.41	0.54
1:K:92:THR:O	1:K:189:GLN:NE2	2.39	0.54
1:N:246:ILE:HD11	1:N:435:LEU:HD11	1.89	0.54
1:N:349:LEU:HD11	1:N:369:ILE:HD13	1.90	0.54
1:N:511:HIS:CD2	1:m:218:PHE:HB2	2.41	0.54
1:O:293:TRP:CE3	1:O:403:ILE:HD11	2.43	0.54
1:R:287:TYR:CZ	1:S:79:PRO:HG3	2.43	0.54
1:R:293:TRP:CE3	1:R:403:ILE:HD11	2.43	0.54
1:S:293:TRP:CE3	1:S:403:ILE:HD11	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:491:ARG:O	1:V:492:ARG:NH1	2.38	0.54
1:Y:99:PHE:O	1:Y:105:HIS:HE1	1.89	0.54
1:Z:268:ALA:HB3	1:4:354:GLN:HG3	1.88	0.54
1:a:349:LEU:HD11	1:a:369:ILE:HD13	1.90	0.54
1:b:379:ASP:OD1	1:b:380:GLN:N	2.41	0.54
1:d:92:THR:O	1:d:189:GLN:NE2	2.39	0.54
1:e:293:TRP:CE3	1:e:403:ILE:HD11	2.43	0.54
1:f:99:PHE:O	1:f:105:HIS:HE1	1.89	0.54
1:g:293:TRP:CE3	1:g:403:ILE:HD11	2.43	0.54
1:g:295:THR:HG23	1:g:380:GLN:HB3	1.88	0.54
1:j:349:LEU:HD11	1:j:369:ILE:HD13	1.90	0.54
1:k:349:LEU:HD11	1:k:369:ILE:HD13	1.90	0.54
1:m:287:TYR:CZ	1:n:79:PRO:HG3	2.43	0.54
1:o:68:ASN:HB2	1:o:189:GLN:NE2	2.22	0.54
1:o:511:HIS:CD2	1:7:218:PHE:HB2	2.42	0.54
1:p:349:LEU:HD11	1:p:369:ILE:HD13	1.90	0.54
1:p:379:ASP:OD1	1:p:380:GLN:N	2.41	0.54
1:q:287:TYR:CZ	1:r:79:PRO:HG3	2.43	0.54
1:r:349:LEU:HD11	1:r:369:ILE:HD13	1.90	0.54
1:s:246:ILE:HD11	1:s:435:LEU:HD11	1.89	0.54
1:t:249:GLU:CG	1:t:536:LYS:HD3	2.36	0.54
1:t:379:ASP:OD1	1:t:380:GLN:N	2.41	0.54
1:w:79:PRO:HG3	1:y:287:TYR:CZ	2.43	0.54
1:x:379:ASP:OD1	1:x:380:GLN:N	2.41	0.54
1:1:246:ILE:HD11	1:1:435:LEU:HD11	1.89	0.54
1:1:406:ARG:HH12	1:1:429:ASP:HA	1.71	0.54
1:2:293:TRP:CE3	1:2:403:ILE:HD11	2.43	0.54
1:3:349:LEU:HD11	1:3:369:ILE:HD13	1.90	0.54
1:7:99:PHE:O	1:7:105:HIS:HE1	1.89	0.54
1:B:287:TYR:CZ	1:J:79:PRO:HG3	2.43	0.54
1:B:348:ASP:CG	1:B:349:LEU:H	2.15	0.54
1:B:349:LEU:HD11	1:B:369:ILE:HD13	1.90	0.54
1:D:293:TRP:CE3	1:D:403:ILE:HD11	2.43	0.54
1:D:349:LEU:HD11	1:D:369:ILE:HD13	1.90	0.54
1:D:406:ARG:HH12	1:D:429:ASP:HA	1.71	0.54
1:E:379:ASP:OD1	1:E:380:GLN:N	2.41	0.54
1:F:354:GLN:HG3	1:Q:268:ALA:HB3	1.90	0.54
1:G:249:GLU:CG	1:G:536:LYS:HD3	2.36	0.54
1:K:379:ASP:OD1	1:K:380:GLN:N	2.41	0.54
1:M:246:ILE:HD11	1:M:435:LEU:HD11	1.89	0.54
1:P:349:LEU:HD11	1:P:369:ILE:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:218:PHE:HB2	1:i:511:HIS:CD2	2.42	0.54
1:T:491:ARG:O	1:T:492:ARG:NH1	2.38	0.54
1:U:246:ILE:HD11	1:U:435:LEU:HD11	1.89	0.54
1:X:68:ASN:HB2	1:X:189:GLN:NE2	2.22	0.54
1:X:79:PRO:HG3	1:e:287:TYR:CZ	2.42	0.54
1:X:348:ASP:CG	1:X:349:LEU:H	2.15	0.54
1:X:511:HIS:CD2	1:Y:218:PHE:HB2	2.42	0.54
1:Z:249:GLU:CG	1:Z:536:LYS:HD3	2.36	0.54
1:a:348:ASP:OD1	1:a:349:LEU:N	2.39	0.54
1:c:287:TYR:CZ	1:o:79:PRO:HG3	2.43	0.54
1:c:293:TRP:CE3	1:c:403:ILE:HD11	2.43	0.54
1:c:349:LEU:HD11	1:c:369:ILE:HD13	1.90	0.54
1:d:348:ASP:OD1	1:d:349:LEU:N	2.39	0.54
1:e:349:LEU:HD11	1:e:369:ILE:HD13	1.90	0.54
1:f:79:PRO:HG3	1:g:287:TYR:CZ	2.43	0.54
1:f:246:ILE:HD11	1:f:435:LEU:HD11	1.89	0.54
1:f:348:ASP:CG	1:f:349:LEU:H	2.15	0.54
1:f:379:ASP:OD1	1:f:380:GLN:N	2.41	0.54
1:g:423:ASP:OD2	1:h:531:LYS:NZ	2.29	0.54
1:h:99:PHE:O	1:h:105:HIS:HE1	1.89	0.54
1:i:348:ASP:CG	1:i:349:LEU:H	2.15	0.54
1:i:379:ASP:OD1	1:i:380:GLN:N	2.41	0.54
1:l:68:ASN:HB2	1:l:189:GLN:NE2	2.22	0.54
1:m:68:ASN:HB2	1:m:189:GLN:NE2	2.22	0.54
1:n:218:PHE:HB2	1:r:511:HIS:CD2	2.42	0.54
1:p:92:THR:O	1:p:189:GLN:NE2	2.39	0.54
1:q:92:THR:O	1:q:189:GLN:NE2	2.39	0.54
1:s:379:ASP:OD1	1:s:380:GLN:N	2.41	0.54
1:v:99:PHE:O	1:v:105:HIS:HE1	1.89	0.54
1:v:293:TRP:CE3	1:v:403:ILE:HD11	2.43	0.54
1:w:491:ARG:O	1:w:492:ARG:NH1	2.38	0.54
1:x:99:PHE:O	1:x:105:HIS:HE1	1.89	0.54
1:z:79:PRO:HG3	1:2:287:TYR:CZ	2.43	0.54
1:z:293:TRP:CE3	1:z:403:ILE:HD11	2.43	0.54
1:1:287:TYR:CZ	1:2:79:PRO:HG3	2.43	0.54
1:1:349:LEU:HD11	1:1:369:ILE:HD13	1.90	0.54
1:3:348:ASP:OD1	1:3:349:LEU:N	2.39	0.54
1:5:246:ILE:HD11	1:5:435:LEU:HD11	1.89	0.54
1:6:349:LEU:HD11	1:6:369:ILE:HD13	1.90	0.54
1:A:293:TRP:CE3	1:A:403:ILE:HD11	2.43	0.54
1:C:268:ALA:HB3	1:b:354:GLN:HG3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:348:ASP:CG	1:D:349:LEU:H	2.15	0.54
1:D:379:ASP:OD1	1:D:380:GLN:N	2.41	0.54
1:G:348:ASP:OD1	1:G:349:LEU:N	2.39	0.54
1:H:293:TRP:CE3	1:H:403:ILE:HD11	2.43	0.54
1:H:379:ASP:OD1	1:H:380:GLN:N	2.41	0.54
1:I:293:TRP:CE3	1:I:403:ILE:HD11	2.43	0.54
1:I:348:ASP:OD1	1:I:349:LEU:N	2.39	0.54
1:K:287:TYR:CZ	1:a:79:PRO:HG3	2.43	0.54
1:L:293:TRP:CE3	1:L:403:ILE:HD11	2.43	0.54
1:L:379:ASP:OD1	1:L:380:GLN:N	2.41	0.54
1:M:349:LEU:HD11	1:M:369:ILE:HD13	1.90	0.54
1:N:68:ASN:HB2	1:N:189:GLN:NE2	2.22	0.54
1:N:287:TYR:CZ	1:P:79:PRO:HG3	2.43	0.54
1:N:293:TRP:CE3	1:N:403:ILE:HD11	2.43	0.54
1:N:379:ASP:OD1	1:N:380:GLN:N	2.41	0.54
1:O:68:ASN:HB2	1:O:189:GLN:NE2	2.22	0.54
1:Q:379:ASP:OD1	1:Q:380:GLN:N	2.41	0.54
1:R:379:ASP:OD1	1:R:380:GLN:N	2.40	0.54
1:T:287:TYR:CZ	1:d:79:PRO:HG3	2.43	0.54
1:T:293:TRP:CE3	1:T:403:ILE:HD11	2.43	0.54
1:U:379:ASP:OD1	1:U:380:GLN:N	2.41	0.54
1:W:293:TRP:CE3	1:W:403:ILE:HD11	2.43	0.54
1:W:348:ASP:CG	1:W:349:LEU:H	2.15	0.54
1:X:379:ASP:OD1	1:X:380:GLN:N	2.41	0.54
1:b:99:PHE:O	1:b:105:HIS:HE1	1.89	0.54
1:b:246:ILE:HD11	1:b:435:LEU:HD11	1.89	0.54
1:b:293:TRP:CE3	1:b:403:ILE:HD11	2.43	0.54
1:c:79:PRO:HG3	1:p:287:TYR:CZ	2.43	0.54
1:g:354:GLN:HG3	1:h:268:ALA:HB3	1.90	0.54
1:h:349:LEU:HD11	1:h:369:ILE:HD13	1.90	0.54
1:i:293:TRP:CE3	1:i:403:ILE:HD11	2.43	0.54
1:k:379:ASP:OD1	1:k:380:GLN:N	2.41	0.54
1:m:293:TRP:CE3	1:m:403:ILE:HD11	2.43	0.54
1:n:92:THR:O	1:n:189:GLN:NE2	2.39	0.54
1:n:295:THR:HG23	1:n:380:GLN:HB3	1.88	0.54
1:n:348:ASP:OD1	1:n:349:LEU:N	2.39	0.54
1:o:295:THR:HG23	1:o:380:GLN:HB3	1.88	0.54
1:o:348:ASP:CG	1:o:349:LEU:H	2.15	0.54
1:o:379:ASP:OD1	1:o:380:GLN:N	2.41	0.54
1:t:68:ASN:HB2	1:t:189:GLN:NE2	2.22	0.54
1:y:348:ASP:OD1	1:y:349:LEU:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:379:ASP:OD1	1:z:380:GLN:N	2.41	0.54
1:1:68:ASN:HB2	1:1:189:GLN:NE2	2.22	0.54
1:3:379:ASP:OD1	1:3:380:GLN:N	2.41	0.54
1:4:379:ASP:OD1	1:4:380:GLN:N	2.41	0.54
1:5:293:TRP:CE3	1:5:403:ILE:HD11	2.43	0.54
1:6:293:TRP:CE3	1:6:403:ILE:HD11	2.43	0.54
1:6:348:ASP:CG	1:6:349:LEU:H	2.15	0.54
1:8:249:GLU:CG	1:8:536:LYS:HD3	2.36	0.54
1:8:293:TRP:CE3	1:8:403:ILE:HD11	2.43	0.54
1:A:354:GLN:HG3	1:I:268:ALA:HB3	1.90	0.54
1:B:68:ASN:HB2	1:B:189:GLN:NE2	2.22	0.54
1:H:246:ILE:HD11	1:H:435:LEU:HD11	1.89	0.54
1:H:249:GLU:CG	1:H:536:LYS:HD3	2.36	0.54
1:J:348:ASP:OD1	1:J:349:LEU:N	2.39	0.54
1:N:348:ASP:CG	1:N:349:LEU:H	2.15	0.54
1:Q:511:HIS:CD2	1:S:218:PHE:HB2	2.41	0.54
1:S:379:ASP:OD1	1:S:380:GLN:N	2.41	0.54
1:T:68:ASN:HB2	1:T:189:GLN:NE2	2.22	0.54
1:V:348:ASP:OD1	1:V:349:LEU:N	2.39	0.54
1:Y:491:ARG:O	1:Y:492:ARG:NH1	2.38	0.54
1:Z:293:TRP:CE3	1:Z:403:ILE:HD11	2.43	0.54
1:b:348:ASP:CG	1:b:349:LEU:H	2.15	0.54
1:e:348:ASP:OD1	1:e:349:LEU:N	2.39	0.54
1:f:293:TRP:CE3	1:f:403:ILE:HD11	2.43	0.54
1:i:287:TYR:CZ	1:j:79:PRO:HG3	2.43	0.54
1:k:348:ASP:CG	1:k:349:LEU:H	2.15	0.54
1:n:68:ASN:HB2	1:n:189:GLN:NE2	2.22	0.54
1:o:268:ALA:HB3	1:p:354:GLN:HG3	1.90	0.54
1:p:348:ASP:OD1	1:p:349:LEU:N	2.39	0.54
1:t:302:ALA:O	1:t:351:TYR:OH	2.17	0.54
1:v:68:ASN:HB2	1:v:189:GLN:NE2	2.22	0.54
1:w:379:ASP:OD1	1:w:380:GLN:N	2.41	0.54
1:z:92:THR:O	1:z:189:GLN:NE2	2.39	0.54
1:1:348:ASP:CG	1:1:349:LEU:H	2.15	0.54
1:3:79:PRO:HG3	1:4:287:TYR:CZ	2.43	0.54
1:5:379:ASP:OD1	1:5:380:GLN:N	2.41	0.54
1:A:99:PHE:O	1:A:105:HIS:HE1	1.89	0.54
1:C:68:ASN:HB2	1:C:189:GLN:NE2	2.22	0.54
1:C:379:ASP:OD1	1:C:380:GLN:N	2.41	0.54
1:F:348:ASP:OD1	1:F:349:LEU:N	2.39	0.54
1:H:348:ASP:CG	1:H:349:LEU:H	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:246:ILE:HD11	1:J:435:LEU:HD11	1.89	0.54
1:J:491:ARG:O	1:J:492:ARG:NH1	2.38	0.54
1:L:92:THR:O	1:L:189:GLN:NE2	2.39	0.54
1:M:293:TRP:CE3	1:M:403:ILE:HD11	2.43	0.54
1:Q:349:LEU:HD11	1:Q:369:ILE:HD13	1.90	0.54
1:R:92:THR:O	1:R:189:GLN:NE2	2.39	0.54
1:T:379:ASP:OD1	1:T:380:GLN:N	2.41	0.54
1:V:354:GLN:HG3	1:X:268:ALA:HB3	1.90	0.54
1:W:349:LEU:HD11	1:W:369:ILE:HD13	1.90	0.54
1:Y:379:ASP:OD1	1:Y:380:GLN:N	2.41	0.54
1:a:348:ASP:CG	1:a:349:LEU:H	2.15	0.54
1:a:379:ASP:OD1	1:a:380:GLN:N	2.41	0.54
1:d:287:TYR:CZ	1:l:79:PRO:HG3	2.43	0.54
1:e:491:ARG:O	1:e:492:ARG:NH1	2.38	0.54
1:h:246:ILE:HD11	1:h:435:LEU:HD11	1.89	0.54
1:h:293:TRP:CE3	1:h:403:ILE:HD11	2.43	0.54
1:i:68:ASN:HB2	1:i:189:GLN:NE2	2.22	0.54
1:m:379:ASP:OD1	1:m:380:GLN:N	2.41	0.54
1:n:348:ASP:CG	1:n:349:LEU:H	2.15	0.54
1:r:218:PHE:HB2	1:x:511:HIS:CD2	2.41	0.54
1:t:348:ASP:OD1	1:t:349:LEU:N	2.39	0.54
1:u:293:TRP:CE3	1:u:403:ILE:HD11	2.43	0.54
1:v:379:ASP:OD1	1:v:380:GLN:N	2.41	0.54
1:x:293:TRP:CE3	1:x:403:ILE:HD11	2.43	0.54
1:y:293:TRP:CE3	1:y:403:ILE:HD11	2.43	0.54
1:2:246:ILE:HD11	1:2:435:LEU:HD11	1.89	0.54
1:2:348:ASP:OD1	1:2:349:LEU:N	2.39	0.54
1:3:348:ASP:CG	1:3:349:LEU:H	2.15	0.54
1:4:302:ALA:O	1:4:351:TYR:OH	2.17	0.54
1:5:249:GLU:CG	1:5:536:LYS:HD3	2.36	0.54
1:A:68:ASN:HB2	1:A:189:GLN:NE2	2.22	0.54
1:A:379:ASP:OD1	1:A:380:GLN:N	2.41	0.54
1:C:398:MET:HE2	1:M:398:MET:HG2	1.90	0.54
1:G:68:ASN:HB2	1:G:189:GLN:NE2	2.22	0.54
1:I:246:ILE:HD11	1:I:435:LEU:HD11	1.89	0.54
1:K:302:ALA:O	1:K:351:TYR:OH	2.17	0.54
1:O:379:ASP:OD1	1:O:380:GLN:N	2.41	0.54
1:R:348:ASP:CG	1:R:349:LEU:H	2.15	0.54
1:S:287:TYR:CZ	1:U:79:PRO:HG3	2.43	0.54
1:V:287:TYR:CZ	1:e:79:PRO:HG3	2.43	0.54
1:X:45:GLY:N	1:Y:225:ASP:OD1	2.30	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:349:LEU:HD11	1:X:369:ILE:HD13	1.90	0.54
1:Y:293:TRP:CE3	1:Y:403:ILE:HD11	2.43	0.54
1:c:348:ASP:OD1	1:c:349:LEU:N	2.39	0.54
1:d:68:ASN:HB2	1:d:189:GLN:NE2	2.22	0.54
1:d:295:THR:HG23	1:d:380:GLN:HB3	1.88	0.54
1:d:348:ASP:CG	1:d:349:LEU:H	2.15	0.54
1:g:68:ASN:HB2	1:g:189:GLN:NE2	2.22	0.54
1:g:379:ASP:OD1	1:g:380:GLN:N	2.41	0.54
1:l:379:ASP:OD1	1:l:380:GLN:N	2.41	0.54
1:o:45:GLY:N	1:7:225:ASP:OD1	2.30	0.54
1:o:349:LEU:HD11	1:o:369:ILE:HD13	1.90	0.54
1:p:293:TRP:CE3	1:p:403:ILE:HD11	2.43	0.54
1:q:348:ASP:CG	1:q:349:LEU:H	2.15	0.54
1:q:379:ASP:OD1	1:q:380:GLN:N	2.41	0.54
1:r:287:TYR:CZ	1:s:79:PRO:HG3	2.43	0.54
1:r:379:ASP:OD1	1:r:380:GLN:N	2.41	0.54
1:u:246:ILE:HD11	1:u:435:LEU:HD11	1.89	0.54
1:u:268:ALA:HB3	1:v:354:GLN:HG3	1.90	0.54
1:u:348:ASP:OD1	1:u:349:LEU:N	2.39	0.54
1:x:349:LEU:HD11	1:x:369:ILE:HD13	1.90	0.54
1:y:349:LEU:HD11	1:y:369:ILE:HD13	1.90	0.54
1:5:348:ASP:CG	1:5:349:LEU:H	2.15	0.54
1:7:379:ASP:OD1	1:7:380:GLN:N	2.41	0.54
1:7:491:ARG:O	1:7:492:ARG:NH1	2.38	0.54
1:B:99:PHE:O	1:B:105:HIS:HE1	1.89	0.53
1:B:379:ASP:OD1	1:B:380:GLN:N	2.41	0.53
1:F:293:TRP:CE3	1:F:403:ILE:HD11	2.43	0.53
1:I:120:ARG:HB3	1:I:245:TRP:CE3	2.43	0.53
1:J:348:ASP:CG	1:J:349:LEU:H	2.15	0.53
1:O:79:PRO:HG3	1:n:287:TYR:CZ	2.43	0.53
1:P:379:ASP:OD1	1:P:380:GLN:N	2.41	0.53
1:Q:293:TRP:CE3	1:Q:403:ILE:HD11	2.43	0.53
1:V:120:ARG:HB3	1:V:245:TRP:CE3	2.44	0.53
1:W:491:ARG:O	1:W:492:ARG:NH1	2.38	0.53
1:b:348:ASP:OD1	1:b:349:LEU:N	2.39	0.53
1:d:379:ASP:OD1	1:d:380:GLN:N	2.41	0.53
1:d:491:ARG:O	1:d:492:ARG:NH1	2.38	0.53
1:e:379:ASP:OD1	1:e:380:GLN:N	2.41	0.53
1:h:68:ASN:HB2	1:h:189:GLN:NE2	2.22	0.53
1:j:287:TYR:CZ	1:k:79:PRO:HG3	2.43	0.53
1:n:379:ASP:OD1	1:n:380:GLN:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:293:TRP:CE3	1:o:403:ILE:HD11	2.43	0.53
1:p:120:ARG:HB3	1:p:245:TRP:CE3	2.44	0.53
1:q:120:ARG:HB3	1:q:245:TRP:CE3	2.43	0.53
1:x:268:ALA:HB3	1:y:354:GLN:HG3	1.90	0.53
1:6:287:TYR:CZ	1:7:79:PRO:HG3	2.43	0.53
1:D:120:ARG:HB3	1:D:245:TRP:CE3	2.43	0.53
1:E:120:ARG:HB3	1:E:245:TRP:CE3	2.43	0.53
1:H:79:PRO:HG3	1:Y:287:TYR:CZ	2.43	0.53
1:H:120:ARG:HB3	1:H:245:TRP:CE3	2.43	0.53
1:I:349:LEU:HD11	1:I:369:ILE:HD13	1.90	0.53
1:P:293:TRP:CE3	1:P:403:ILE:HD11	2.43	0.53
1:R:120:ARG:HB3	1:R:245:TRP:CE3	2.44	0.53
1:T:120:ARG:HB3	1:T:245:TRP:CE3	2.44	0.53
1:U:249:GLU:CG	1:U:536:LYS:HD3	2.36	0.53
1:W:120:ARG:HB3	1:W:245:TRP:CE3	2.43	0.53
1:W:287:TYR:CZ	1:Y:79:PRO:HG3	2.43	0.53
1:Y:120:ARG:HB3	1:Y:245:TRP:CE3	2.43	0.53
1:Z:246:ILE:HD11	1:Z:435:LEU:HD11	1.89	0.53
1:a:491:ARG:O	1:a:492:ARG:NH1	2.38	0.53
1:c:491:ARG:O	1:c:492:ARG:NH1	2.38	0.53
1:j:379:ASP:OD1	1:j:380:GLN:N	2.41	0.53
1:l:349:LEU:HD11	1:l:369:ILE:HD13	1.90	0.53
1:n:491:ARG:O	1:n:492:ARG:NH1	2.38	0.53
1:u:120:ARG:HB3	1:u:245:TRP:CE3	2.44	0.53
1:z:268:ALA:HB3	1:1:354:GLN:HG3	1.91	0.53
1:z:287:TYR:CZ	1:1:79:PRO:HG3	2.43	0.53
1:1:379:ASP:OD1	1:1:380:GLN:N	2.41	0.53
1:1:531:LYS:NZ	1:2:423:ASP:OD2	2.29	0.53
1:3:491:ARG:O	1:3:492:ARG:NH1	2.38	0.53
1:7:293:TRP:CE3	1:7:403:ILE:HD11	2.43	0.53
1:8:246:ILE:HD11	1:8:435:LEU:HD11	1.89	0.53
1:8:379:ASP:OD1	1:8:380:GLN:N	2.41	0.53
1:B:79:PRO:HG3	1:L:287:TYR:CZ	2.43	0.53
1:C:120:ARG:HB3	1:C:245:TRP:CE3	2.44	0.53
1:E:92:THR:O	1:E:189:GLN:NE2	2.39	0.53
1:E:348:ASP:CG	1:E:349:LEU:H	2.15	0.53
1:F:349:LEU:HD11	1:F:369:ILE:HD13	1.90	0.53
1:G:302:ALA:O	1:G:351:TYR:OH	2.17	0.53
1:J:349:LEU:HD11	1:J:369:ILE:HD13	1.90	0.53
1:J:379:ASP:OD1	1:J:380:GLN:N	2.41	0.53
1:O:349:LEU:HD11	1:O:369:ILE:HD13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:120:ARG:HB3	1:P:245:TRP:CE3	2.44	0.53
1:V:293:TRP:CE3	1:V:403:ILE:HD11	2.43	0.53
1:W:268:ALA:HB3	1:Y:354:GLN:HG3	1.90	0.53
1:X:293:TRP:CE3	1:X:403:ILE:HD11	2.43	0.53
1:Z:398:MET:HG2	1:4:398:MET:HE2	1.90	0.53
1:a:120:ARG:HB3	1:a:245:TRP:CE3	2.44	0.53
1:b:120:ARG:HB3	1:b:245:TRP:CE3	2.43	0.53
1:c:379:ASP:OD1	1:c:380:GLN:N	2.41	0.53
1:f:348:ASP:OD1	1:f:349:LEU:N	2.39	0.53
1:g:120:ARG:HB3	1:g:245:TRP:CE3	2.44	0.53
1:j:120:ARG:HB3	1:j:245:TRP:CE3	2.44	0.53
1:j:293:TRP:CE3	1:j:403:ILE:HD11	2.43	0.53
1:k:120:ARG:HB3	1:k:245:TRP:CE3	2.44	0.53
1:m:99:PHE:O	1:m:105:HIS:HE1	1.89	0.53
1:m:120:ARG:HB3	1:m:245:TRP:CE3	2.44	0.53
1:q:349:LEU:HD11	1:q:369:ILE:HD13	1.90	0.53
1:1:99:PHE:O	1:1:105:HIS:HE1	1.89	0.53
1:2:348:ASP:CG	1:2:349:LEU:H	2.15	0.53
1:3:302:ALA:O	1:3:351:TYR:OH	2.17	0.53
1:5:120:ARG:HB3	1:5:245:TRP:CE3	2.44	0.53
1:6:120:ARG:HB3	1:6:245:TRP:CE3	2.44	0.53
1:7:120:ARG:HB3	1:7:245:TRP:CE3	2.43	0.53
1:C:354:GLN:HG3	1:M:268:ALA:HB3	1.91	0.53
1:D:79:PRO:HG3	1:P:287:TYR:CZ	2.44	0.53
1:D:268:ALA:HB3	1:N:354:GLN:HG3	1.90	0.53
1:H:354:GLN:HG3	1:Y:268:ALA:HB3	1.91	0.53
1:M:68:ASN:HB2	1:M:189:GLN:NE2	2.22	0.53
1:U:348:ASP:CG	1:U:349:LEU:H	2.15	0.53
1:Z:92:THR:O	1:Z:189:GLN:NE2	2.39	0.53
1:Z:120:ARG:HB3	1:Z:245:TRP:CE3	2.43	0.53
1:Z:379:ASP:OD1	1:Z:380:GLN:N	2.41	0.53
1:c:120:ARG:HB3	1:c:245:TRP:CE3	2.44	0.53
1:e:120:ARG:HB3	1:e:245:TRP:CE3	2.44	0.53
1:f:120:ARG:HB3	1:f:245:TRP:CE3	2.44	0.53
1:i:354:GLN:HG3	1:k:268:ALA:HB3	1.90	0.53
1:u:349:LEU:HD11	1:u:369:ILE:HD13	1.90	0.53
1:w:92:THR:O	1:w:189:GLN:NE2	2.39	0.53
1:w:120:ARG:HB3	1:w:245:TRP:CE3	2.44	0.53
1:w:348:ASP:CG	1:w:349:LEU:H	2.15	0.53
1:2:349:LEU:HD11	1:2:369:ILE:HD13	1.90	0.53
1:3:120:ARG:HB3	1:3:245:TRP:CE3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:354:GLN:HG3	1:7:268:ALA:HB3	1.91	0.53
1:6:268:ALA:HB3	1:7:354:GLN:HG3	1.90	0.53
1:6:491:ARG:O	1:6:492:ARG:NH1	2.38	0.53
1:7:68:ASN:HB2	1:7:189:GLN:NE2	2.22	0.53
1:8:120:ARG:HB3	1:8:245:TRP:CE3	2.44	0.53
1:A:268:ALA:HB3	1:G:354:GLN:HG3	1.91	0.53
1:B:354:GLN:HG3	1:L:268:ALA:HB3	1.91	0.53
1:E:349:LEU:HD11	1:E:369:ILE:HD13	1.90	0.53
1:K:120:ARG:HB3	1:K:245:TRP:CE3	2.44	0.53
1:R:79:PRO:HG3	1:U:287:TYR:CZ	2.43	0.53
1:R:349:LEU:HD11	1:R:369:ILE:HD13	1.90	0.53
1:S:120:ARG:HB3	1:S:245:TRP:CE3	2.44	0.53
1:T:249:GLU:CG	1:T:536:LYS:HD3	2.36	0.53
1:Y:68:ASN:HB2	1:Y:189:GLN:NE2	2.22	0.53
1:Y:349:LEU:HD11	1:Y:369:ILE:HD13	1.90	0.53
1:a:302:ALA:O	1:a:351:TYR:OH	2.17	0.53
1:b:92:THR:O	1:b:189:GLN:NE2	2.39	0.53
1:b:302:ALA:O	1:b:351:TYR:OH	2.17	0.53
1:f:92:THR:O	1:f:189:GLN:NE2	2.39	0.53
1:t:354:GLN:HG3	1:v:268:ALA:HB3	1.91	0.53
1:2:379:ASP:OD1	1:2:380:GLN:N	2.41	0.53
1:5:79:PRO:HG3	1:7:287:TYR:CZ	2.43	0.53
1:7:349:LEU:HD11	1:7:369:ILE:HD13	1.90	0.53
1:A:92:THR:O	1:A:189:GLN:NE2	2.39	0.53
1:F:120:ARG:HB3	1:F:245:TRP:CE3	2.43	0.53
1:K:268:ALA:HB3	1:a:354:GLN:HG3	1.90	0.53
1:L:120:ARG:HB3	1:L:245:TRP:CE3	2.44	0.53
1:M:120:ARG:HB3	1:M:245:TRP:CE3	2.44	0.53
1:Q:92:THR:O	1:Q:189:GLN:NE2	2.39	0.53
1:T:99:PHE:O	1:T:105:HIS:HE1	1.89	0.53
1:U:348:ASP:OD1	1:U:349:LEU:N	2.39	0.53
1:Z:349:LEU:HD11	1:Z:369:ILE:HD13	1.90	0.53
1:d:120:ARG:HB3	1:d:245:TRP:CE3	2.44	0.53
1:h:120:ARG:HB3	1:h:245:TRP:CE3	2.43	0.53
1:r:120:ARG:HB3	1:r:245:TRP:CE3	2.44	0.53
1:s:293:TRP:CE3	1:s:403:ILE:HD11	2.43	0.53
1:s:348:ASP:CG	1:s:349:LEU:H	2.15	0.53
1:t:268:ALA:HB3	1:u:354:GLN:HG3	1.91	0.53
1:y:120:ARG:HB3	1:y:245:TRP:CE3	2.44	0.53
1:y:249:GLU:CG	1:y:536:LYS:HD3	2.36	0.53
1:4:120:ARG:HB3	1:4:245:TRP:CE3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:92:THR:O	1:8:189:GLN:NE2	2.39	0.53
1:8:349:LEU:HD11	1:8:369:ILE:HD13	1.90	0.53
1:B:120:ARG:HB3	1:B:245:TRP:CE3	2.44	0.53
1:C:349:LEU:HD11	1:C:369:ILE:HD13	1.90	0.53
1:U:120:ARG:HB3	1:U:245:TRP:CE3	2.44	0.53
1:U:293:TRP:CE3	1:U:403:ILE:HD11	2.43	0.53
1:V:398:MET:HE2	1:X:398:MET:HG2	1.91	0.53
1:a:287:TYR:CZ	1:8:79:PRO:HG3	2.43	0.53
1:g:349:LEU:HD11	1:g:369:ILE:HD13	1.90	0.53
1:j:348:ASP:OD1	1:j:349:LEU:N	2.39	0.53
1:m:249:GLU:CG	1:m:536:LYS:HD3	2.36	0.53
1:n:120:ARG:HB3	1:n:245:TRP:CE3	2.44	0.53
1:q:79:PRO:HG3	1:s:287:TYR:CZ	2.43	0.53
1:u:287:TYR:CZ	1:v:79:PRO:HG3	2.44	0.53
1:v:120:ARG:HB3	1:v:245:TRP:CE3	2.44	0.53
1:w:349:LEU:HD11	1:w:369:ILE:HD13	1.90	0.53
1:1:120:ARG:HB3	1:1:245:TRP:CE3	2.44	0.53
1:A:79:PRO:HG3	1:I:287:TYR:CZ	2.44	0.53
1:E:268:ALA:HB3	1:Q:354:GLN:HG3	1.91	0.53
1:F:79:PRO:HG3	1:Q:287:TYR:CZ	2.44	0.53
1:F:249:GLU:CG	1:F:536:LYS:HD3	2.36	0.53
1:G:268:ALA:HB3	1:I:354:GLN:HG3	1.91	0.53
1:O:268:ALA:HB3	1:m:354:GLN:HG3	1.90	0.53
1:Y:348:ASP:OD1	1:Y:349:LEU:N	2.39	0.53
1:Z:79:PRO:HG3	1:3:287:TYR:CZ	2.43	0.53
1:i:79:PRO:HG3	1:k:287:TYR:CZ	2.43	0.53
1:q:491:ARG:O	1:q:492:ARG:NH1	2.38	0.53
1:s:348:ASP:OD1	1:s:349:LEU:N	2.39	0.53
1:v:92:THR:O	1:v:189:GLN:NE2	2.39	0.53
1:x:92:THR:O	1:x:189:GLN:NE2	2.39	0.53
1:z:120:ARG:HB3	1:z:245:TRP:CE3	2.44	0.53
1:z:354:GLN:HG3	1:2:268:ALA:HB3	1.91	0.53
1:5:349:LEU:HD11	1:5:369:ILE:HD13	1.90	0.53
1:A:120:ARG:HB3	1:A:245:TRP:CE3	2.44	0.53
1:B:531:LYS:NZ	1:J:423:ASP:OD2	2.30	0.53
1:G:120:ARG:HB3	1:G:245:TRP:CE3	2.43	0.53
1:H:349:LEU:HD11	1:H:369:ILE:HD13	1.90	0.53
1:J:120:ARG:HB3	1:J:245:TRP:CE3	2.44	0.53
1:K:349:LEU:HD11	1:K:369:ILE:HD13	1.90	0.53
1:T:97:PHE:HA	1:T:185:TRP:CH2	2.44	0.53
1:Y:302:ALA:O	1:Y:351:TYR:OH	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:339:PRO:HG3	1:a:353:ILE:HD11	1.91	0.53
1:d:293:TRP:CE3	1:d:403:ILE:HD11	2.43	0.53
1:d:349:LEU:HD11	1:d:369:ILE:HD13	1.90	0.53
1:n:293:TRP:CE3	1:n:403:ILE:HD11	2.43	0.53
1:p:339:PRO:HG3	1:p:353:ILE:HD11	1.91	0.53
1:q:354:GLN:HG3	1:s:268:ALA:HB3	1.91	0.53
1:r:268:ALA:HB3	1:s:354:GLN:HG3	1.91	0.53
1:s:120:ARG:HB3	1:s:245:TRP:CE3	2.44	0.53
1:t:120:ARG:HB3	1:t:245:TRP:CE3	2.44	0.53
1:w:268:ALA:HB3	1:x:354:GLN:HG3	1.91	0.53
1:6:97:PHE:HA	1:6:185:TRP:CH2	2.44	0.53
1:J:268:ALA:HB3	1:L:354:GLN:HG3	1.91	0.53
1:K:97:PHE:HA	1:K:185:TRP:CH2	2.44	0.53
1:P:348:ASP:OD1	1:P:349:LEU:N	2.39	0.53
1:Q:120:ARG:HB3	1:Q:245:TRP:CE3	2.43	0.53
1:R:398:MET:HE2	1:U:398:MET:HG2	1.91	0.53
1:R:491:ARG:O	1:R:492:ARG:NH1	2.38	0.53
1:T:246:ILE:HD11	1:T:435:LEU:HD11	1.89	0.53
1:T:354:GLN:HG3	1:l:268:ALA:HB3	1.91	0.53
1:U:97:PHE:HA	1:U:185:TRP:CH2	2.44	0.53
1:V:339:PRO:HG3	1:V:353:ILE:HD11	1.91	0.53
1:b:491:ARG:O	1:b:492:ARG:NH1	2.38	0.53
1:f:349:LEU:HD11	1:f:369:ILE:HD13	1.90	0.53
1:g:398:MET:HE2	1:h:398:MET:HG2	1.91	0.53
1:m:97:PHE:HA	1:m:185:TRP:CH2	2.44	0.53
1:m:348:ASP:OD1	1:m:349:LEU:N	2.39	0.53
1:n:349:LEU:HD11	1:n:369:ILE:HD13	1.90	0.53
1:s:97:PHE:HA	1:s:185:TRP:CH2	2.44	0.53
1:s:339:PRO:HG3	1:s:353:ILE:HD11	1.91	0.53
1:1:268:ALA:HB3	1:2:354:GLN:HG3	1.91	0.53
1:5:98:ASN:ND2	1:5:175:ASP:OD1	2.39	0.53
1:7:348:ASP:OD1	1:7:349:LEU:N	2.39	0.53
1:B:268:ALA:HB3	1:J:354:GLN:HG3	1.91	0.52
1:D:287:TYR:CZ	1:N:79:PRO:HG3	2.43	0.52
1:D:398:MET:HE2	1:P:398:MET:HG2	1.91	0.52
1:E:97:PHE:HA	1:E:185:TRP:CH2	2.44	0.52
1:E:398:MET:HG2	1:Q:398:MET:HE2	1.91	0.52
1:G:98:ASN:ND2	1:G:175:ASP:OD1	2.39	0.52
1:O:97:PHE:HA	1:O:185:TRP:CH2	2.44	0.52
1:S:268:ALA:HB3	1:U:354:GLN:HG3	1.91	0.52
1:T:348:ASP:OD1	1:T:349:LEU:N	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:339:PRO:HG3	1:U:353:ILE:HD11	1.91	0.52
1:W:97:PHE:HA	1:W:185:TRP:CH2	2.45	0.52
1:Y:339:PRO:HG3	1:Y:353:ILE:HD11	1.91	0.52
1:b:339:PRO:HG3	1:b:353:ILE:HD11	1.91	0.52
1:h:339:PRO:HG3	1:h:353:ILE:HD11	1.91	0.52
1:k:249:GLU:CG	1:k:536:LYS:HD3	2.36	0.52
1:l:97:PHE:HA	1:l:185:TRP:CH2	2.44	0.52
1:t:98:ASN:ND2	1:t:175:ASP:OD1	2.39	0.52
1:u:339:PRO:HG3	1:u:353:ILE:HD11	1.91	0.52
1:w:97:PHE:HA	1:w:185:TRP:CH2	2.44	0.52
1:w:398:MET:HG2	1:x:398:MET:HE2	1.91	0.52
1:2:120:ARG:HB3	1:2:245:TRP:CE3	2.44	0.52
1:3:339:PRO:HG3	1:3:353:ILE:HD11	1.91	0.52
1:4:97:PHE:HA	1:4:185:TRP:CH2	2.44	0.52
1:4:348:ASP:OD1	1:4:349:LEU:N	2.39	0.52
1:4:349:LEU:HD11	1:4:369:ILE:HD13	1.90	0.52
1:A:339:PRO:HG3	1:A:353:ILE:HD11	1.91	0.52
1:A:398:MET:HE2	1:I:398:MET:HG2	1.91	0.52
1:H:97:PHE:HA	1:H:185:TRP:CH2	2.44	0.52
1:H:98:ASN:ND2	1:H:175:ASP:OD1	2.39	0.52
1:I:339:PRO:HG3	1:I:353:ILE:HD11	1.91	0.52
1:L:339:PRO:HG3	1:L:353:ILE:HD11	1.91	0.52
1:M:339:PRO:HG3	1:M:353:ILE:HD11	1.91	0.52
1:O:120:ARG:HB3	1:O:245:TRP:CE3	2.44	0.52
1:R:354:GLN:HG3	1:U:268:ALA:HB3	1.91	0.52
1:X:120:ARG:HB3	1:X:245:TRP:CE3	2.44	0.52
1:Z:354:GLN:HG3	1:3:268:ALA:HB3	1.91	0.52
1:a:268:ALA:HB3	1:8:354:GLN:HG3	1.91	0.52
1:b:349:LEU:HD11	1:b:369:ILE:HD13	1.90	0.52
1:f:339:PRO:HG3	1:f:353:ILE:HD11	1.91	0.52
1:f:491:ARG:O	1:f:492:ARG:NH1	2.38	0.52
1:i:268:ALA:HB3	1:j:354:GLN:HG3	1.91	0.52
1:j:398:MET:HG2	1:k:398:MET:HE2	1.91	0.52
1:m:246:ILE:HD11	1:m:435:LEU:HD11	1.89	0.52
1:o:120:ARG:HB3	1:o:245:TRP:CE3	2.43	0.52
1:o:398:MET:HG2	1:p:398:MET:HE2	1.91	0.52
1:v:339:PRO:HG3	1:v:353:ILE:HD11	1.91	0.52
1:x:287:TYR:CZ	1:y:79:PRO:HG3	2.44	0.52
1:7:339:PRO:HG3	1:7:353:ILE:HD11	1.91	0.52
1:A:398:MET:HG2	1:G:398:MET:HE2	1.92	0.52
1:D:98:ASN:ND2	1:D:175:ASP:OD1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:249:GLU:CG	1:D:536:LYS:HD3	2.36	0.52
1:E:348:ASP:OD1	1:E:349:LEU:N	2.39	0.52
1:L:349:LEU:HD11	1:L:369:ILE:HD13	1.90	0.52
1:M:354:GLN:HG3	1:b:268:ALA:HB3	1.92	0.52
1:N:268:ALA:HB3	1:P:354:GLN:HG3	1.91	0.52
1:N:398:MET:HG2	1:P:398:MET:HE2	1.91	0.52
1:O:354:GLN:HG3	1:n:268:ALA:HB3	1.91	0.52
1:R:97:PHE:HA	1:R:185:TRP:CH2	2.44	0.52
1:Z:339:PRO:HG3	1:Z:353:ILE:HD11	1.91	0.52
1:f:268:ALA:HB3	1:h:354:GLN:HG3	1.92	0.52
1:q:97:PHE:HA	1:q:185:TRP:CH2	2.44	0.52
1:q:398:MET:HE2	1:s:398:MET:HG2	1.92	0.52
1:u:398:MET:HG2	1:v:398:MET:HE2	1.91	0.52
1:x:120:ARG:HB3	1:x:245:TRP:CE3	2.44	0.52
1:z:339:PRO:HG3	1:z:353:ILE:HD11	1.91	0.52
1:5:97:PHE:HA	1:5:185:TRP:CH2	2.45	0.52
1:5:339:PRO:HG3	1:5:353:ILE:HD11	1.91	0.52
1:8:339:PRO:HG3	1:8:353:ILE:HD11	1.91	0.52
1:C:398:MET:HG2	1:b:398:MET:HE2	1.91	0.52
1:G:339:PRO:HG3	1:G:353:ILE:HD11	1.91	0.52
1:G:398:MET:HG2	1:I:398:MET:HE2	1.91	0.52
1:H:339:PRO:HG3	1:H:353:ILE:HD11	1.91	0.52
1:J:339:PRO:HG3	1:J:353:ILE:HD11	1.91	0.52
1:K:348:ASP:OD1	1:K:349:LEU:N	2.39	0.52
1:N:120:ARG:HB3	1:N:245:TRP:CE3	2.43	0.52
1:R:398:MET:HG2	1:S:398:MET:HE2	1.92	0.52
1:S:348:ASP:OD1	1:S:349:LEU:N	2.39	0.52
1:T:349:LEU:HD11	1:T:369:ILE:HD13	1.90	0.52
1:V:268:ALA:HB3	1:e:354:GLN:HG3	1.90	0.52
1:Z:97:PHE:HA	1:Z:185:TRP:CH2	2.44	0.52
1:d:268:ALA:HB3	1:l:354:GLN:HG3	1.91	0.52
1:i:120:ARG:HB3	1:i:245:TRP:CE3	2.43	0.52
1:k:98:ASN:ND2	1:k:175:ASP:OD1	2.39	0.52
1:l:120:ARG:HB3	1:l:245:TRP:CE3	2.44	0.52
1:t:339:PRO:HG3	1:t:353:ILE:HD11	1.91	0.52
1:t:398:MET:HE2	1:v:398:MET:HG2	1.92	0.52
1:t:398:MET:HG2	1:u:398:MET:HE2	1.91	0.52
1:y:229:LEU:HD22	1:y:233:GLU:HB3	1.92	0.52
1:z:349:LEU:HD11	1:z:369:ILE:HD13	1.90	0.52
1:z:398:MET:HE2	1:2:398:MET:HG2	1.91	0.52
1:7:302:ALA:O	1:7:351:TYR:OH	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:531:LYS:NZ	1:Q:423:ASP:OD2	2.29	0.52
1:F:229:LEU:HD22	1:F:233:GLU:HB3	1.92	0.52
1:G:293:TRP:CE3	1:G:403:ILE:HD11	2.43	0.52
1:K:229:LEU:HD22	1:K:233:GLU:HB3	1.92	0.52
1:U:349:LEU:HD11	1:U:369:ILE:HD13	1.90	0.52
1:X:339:PRO:HG3	1:X:353:ILE:HD11	1.91	0.52
1:c:354:GLN:HG3	1:p:268:ALA:HB3	1.91	0.52
1:c:398:MET:HG2	1:o:398:MET:HE2	1.91	0.52
1:i:398:MET:HG2	1:j:398:MET:HE2	1.92	0.52
1:j:268:ALA:HB3	1:k:354:GLN:HG3	1.90	0.52
1:o:339:PRO:HG3	1:o:353:ILE:HD11	1.91	0.52
1:w:348:ASP:OD1	1:w:349:LEU:N	2.39	0.52
1:y:302:ALA:O	1:y:351:TYR:OH	2.17	0.52
1:y:339:PRO:HG3	1:y:353:ILE:HD11	1.91	0.52
1:2:339:PRO:HG3	1:2:353:ILE:HD11	1.91	0.52
1:4:399:PHE:CD1	1:4:400:PRO:HD2	2.45	0.52
1:8:97:PHE:HA	1:8:185:TRP:CH2	2.44	0.52
1:A:97:PHE:HA	1:A:185:TRP:CH2	2.44	0.52
1:D:354:GLN:HG3	1:P:268:ALA:HB3	1.90	0.52
1:D:399:PHE:CD1	1:D:400:PRO:HD2	2.45	0.52
1:F:339:PRO:HG3	1:F:353:ILE:HD11	1.91	0.52
1:J:398:MET:HG2	1:L:398:MET:HE2	1.91	0.52
1:O:229:LEU:HD22	1:O:233:GLU:HB3	1.92	0.52
1:T:229:LEU:HD22	1:T:233:GLU:HB3	1.92	0.52
1:T:268:ALA:HB3	1:d:354:GLN:HG3	1.90	0.52
1:V:97:PHE:HA	1:V:185:TRP:CH2	2.44	0.52
1:X:399:PHE:CD1	1:X:400:PRO:HD2	2.45	0.52
1:g:79:PRO:HG3	1:h:287:TYR:CZ	2.44	0.52
1:j:229:LEU:HD22	1:j:233:GLU:HB3	1.92	0.52
1:m:268:ALA:HB3	1:n:354:GLN:HG3	1.91	0.52
1:m:349:LEU:HD11	1:m:369:ILE:HD13	1.90	0.52
1:o:399:PHE:CD1	1:o:400:PRO:HD2	2.45	0.52
1:p:97:PHE:HA	1:p:185:TRP:CH2	2.44	0.52
1:q:339:PRO:HG3	1:q:353:ILE:HD11	1.91	0.52
1:q:398:MET:HG2	1:r:398:MET:HE2	1.92	0.52
1:z:97:PHE:HA	1:z:185:TRP:CH2	2.44	0.52
1:4:229:LEU:HD22	1:4:233:GLU:HB3	1.92	0.52
1:5:287:TYR:CZ	1:6:79:PRO:HG3	2.43	0.52
1:B:229:LEU:HD22	1:B:233:GLU:HB3	1.92	0.52
1:B:398:MET:HE2	1:L:398:MET:HG2	1.91	0.52
1:C:79:PRO:HG3	1:M:287:TYR:CZ	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:97:PHE:HA	1:F:185:TRP:CH2	2.44	0.52
1:F:302:ALA:O	1:F:351:TYR:OH	2.17	0.52
1:K:398:MET:HE2	1:8:398:MET:HG2	1.92	0.52
1:K:399:PHE:CD1	1:K:400:PRO:HD2	2.45	0.52
1:L:97:PHE:HA	1:L:185:TRP:CH2	2.44	0.52
1:P:229:LEU:HD22	1:P:233:GLU:HB3	1.92	0.52
1:Q:97:PHE:HA	1:Q:185:TRP:CH2	2.44	0.52
1:Q:229:LEU:HD22	1:Q:233:GLU:HB3	1.92	0.52
1:R:399:PHE:CD1	1:R:400:PRO:HD2	2.45	0.52
1:U:101:GLN:CB	1:U:176:VAL:HG11	2.40	0.52
1:W:398:MET:HG2	1:Y:398:MET:HE2	1.92	0.52
1:X:398:MET:HE2	1:e:398:MET:HG2	1.92	0.52
1:c:97:PHE:HA	1:c:185:TRP:CH2	2.44	0.52
1:e:302:ALA:O	1:e:351:TYR:OH	2.17	0.52
1:i:97:PHE:HA	1:i:185:TRP:CH2	2.44	0.52
1:j:97:PHE:HA	1:j:185:TRP:CH2	2.45	0.52
1:k:399:PHE:CD1	1:k:400:PRO:HD2	2.45	0.52
1:m:229:LEU:HD22	1:m:233:GLU:HB3	1.92	0.52
1:r:348:ASP:OD1	1:r:349:LEU:N	2.39	0.52
1:s:101:GLN:CB	1:s:176:VAL:HG11	2.40	0.52
1:s:349:LEU:HD11	1:s:369:ILE:HD13	1.90	0.52
1:t:293:TRP:CE3	1:t:403:ILE:HD11	2.43	0.52
1:u:399:PHE:CD1	1:u:400:PRO:HD2	2.45	0.52
1:v:97:PHE:HA	1:v:185:TRP:CH2	2.44	0.52
1:x:97:PHE:HA	1:x:185:TRP:CH2	2.44	0.52
1:x:229:LEU:HD22	1:x:233:GLU:HB3	1.92	0.52
1:1:229:LEU:HD22	1:1:233:GLU:HB3	1.92	0.52
1:3:97:PHE:HA	1:3:185:TRP:CH2	2.45	0.52
1:3:98:ASN:ND2	1:3:175:ASP:OD1	2.39	0.52
1:7:97:PHE:HA	1:7:185:TRP:CH2	2.44	0.52
1:C:339:PRO:HG3	1:C:353:ILE:HD11	1.91	0.52
1:E:339:PRO:HG3	1:E:353:ILE:HD11	1.91	0.52
1:G:349:LEU:HD11	1:G:369:ILE:HD13	1.90	0.52
1:I:399:PHE:CD1	1:I:400:PRO:HD2	2.45	0.52
1:K:339:PRO:HG3	1:K:353:ILE:HD11	1.91	0.52
1:O:398:MET:HE2	1:n:398:MET:HG2	1.92	0.52
1:P:97:PHE:HA	1:P:185:TRP:CH2	2.44	0.52
1:R:339:PRO:HG3	1:R:353:ILE:HD11	1.91	0.52
1:X:229:LEU:HD22	1:X:233:GLU:HB3	1.92	0.52
1:a:97:PHE:HA	1:a:185:TRP:CH2	2.44	0.52
1:e:97:PHE:HA	1:e:185:TRP:CH2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:339:PRO:HG3	1:g:353:ILE:HD11	1.91	0.52
1:l:229:LEU:HD22	1:l:233:GLU:HB3	1.92	0.52
1:q:399:PHE:CD1	1:q:400:PRO:HD2	2.45	0.52
1:r:229:LEU:HD22	1:r:233:GLU:HB3	1.92	0.52
1:t:349:LEU:HD11	1:t:369:ILE:HD13	1.90	0.52
1:v:101:GLN:CB	1:v:176:VAL:HG11	2.40	0.52
1:x:98:ASN:ND2	1:x:175:ASP:OD1	2.39	0.52
1:y:97:PHE:HA	1:y:185:TRP:CH2	2.44	0.52
1:4:339:PRO:HG3	1:4:353:ILE:HD11	1.91	0.52
1:6:398:MET:HG2	1:7:398:MET:HE2	1.92	0.52
1:7:101:GLN:CB	1:7:176:VAL:HG11	2.40	0.52
1:A:101:GLN:CB	1:A:176:VAL:HG11	2.40	0.52
1:A:348:ASP:OD1	1:A:349:LEU:N	2.39	0.52
1:E:399:PHE:CD1	1:E:400:PRO:HD2	2.45	0.52
1:H:229:LEU:HD22	1:H:233:GLU:HB3	1.92	0.52
1:J:97:PHE:HA	1:J:185:TRP:CH2	2.44	0.52
1:K:354:GLN:HG3	1:8:268:ALA:HB3	1.91	0.52
1:N:97:PHE:HA	1:N:185:TRP:CH2	2.45	0.52
1:N:399:PHE:CD1	1:N:400:PRO:HD2	2.45	0.52
1:O:423:ASP:OD2	1:n:531:LYS:NZ	2.29	0.52
1:P:399:PHE:CD1	1:P:400:PRO:HD2	2.45	0.52
1:Y:97:PHE:HA	1:Y:185:TRP:CH2	2.44	0.52
1:Y:101:GLN:CB	1:Y:176:VAL:HG11	2.40	0.52
1:Y:229:LEU:HD22	1:Y:233:GLU:HB3	1.92	0.52
1:d:398:MET:HG2	1:l:398:MET:HE2	1.92	0.52
1:o:229:LEU:HD22	1:o:233:GLU:HB3	1.92	0.52
1:o:287:TYR:CZ	1:p:79:PRO:HG3	2.44	0.52
1:u:101:GLN:CB	1:u:176:VAL:HG11	2.40	0.52
1:u:229:LEU:HD22	1:u:233:GLU:HB3	1.92	0.52
1:v:348:ASP:OD1	1:v:349:LEU:N	2.39	0.52
1:w:399:PHE:CD1	1:w:400:PRO:HD2	2.45	0.52
1:w:531:LYS:NZ	1:x:423:ASP:OD2	2.29	0.52
1:x:398:MET:HG2	1:y:398:MET:HE2	1.91	0.52
1:z:398:MET:HG2	1:1:398:MET:HE2	1.92	0.52
1:1:97:PHE:HA	1:1:185:TRP:CH2	2.44	0.52
1:2:399:PHE:CD1	1:2:400:PRO:HD2	2.45	0.52
1:5:229:LEU:HD22	1:5:233:GLU:HB3	1.92	0.52
1:7:229:LEU:HD22	1:7:233:GLU:HB3	1.92	0.52
1:A:229:LEU:HD22	1:A:233:GLU:HB3	1.92	0.52
1:B:97:PHE:HA	1:B:185:TRP:CH2	2.44	0.52
1:C:287:TYR:CZ	1:b:79:PRO:HG3	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:399:PHE:CD1	1:C:400:PRO:HD2	2.45	0.52
1:D:339:PRO:HG3	1:D:353:ILE:HD11	1.91	0.52
1:H:287:TYR:CZ	1:W:79:PRO:HG3	2.44	0.52
1:I:101:GLN:CB	1:I:176:VAL:HG11	2.40	0.52
1:L:101:GLN:CB	1:L:176:VAL:HG11	2.40	0.52
1:Q:98:ASN:ND2	1:Q:175:ASP:OD1	2.39	0.52
1:S:229:LEU:HD22	1:S:233:GLU:HB3	1.92	0.52
1:U:399:PHE:CD1	1:U:400:PRO:HD2	2.45	0.52
1:V:79:PRO:HG3	1:X:287:TYR:CZ	2.44	0.52
1:b:97:PHE:HA	1:b:185:TRP:CH2	2.44	0.52
1:c:229:LEU:HD22	1:c:233:GLU:HB3	1.92	0.52
1:e:229:LEU:HD22	1:e:233:GLU:HB3	1.92	0.52
1:f:97:PHE:HA	1:f:185:TRP:CH2	2.44	0.52
1:f:229:LEU:HD22	1:f:233:GLU:HB3	1.92	0.52
1:f:354:GLN:HG3	1:g:268:ALA:HB3	1.91	0.52
1:f:398:MET:HE2	1:g:398:MET:HG2	1.92	0.52
1:h:97:PHE:HA	1:h:185:TRP:CH2	2.44	0.52
1:j:399:PHE:CD1	1:j:400:PRO:HD2	2.45	0.52
1:k:92:THR:O	1:k:189:GLN:NE2	2.39	0.52
1:s:399:PHE:CD1	1:s:400:PRO:HD2	2.45	0.52
1:v:229:LEU:HD22	1:v:233:GLU:HB3	1.92	0.52
1:w:339:PRO:HG3	1:w:353:ILE:HD11	1.91	0.52
1:w:354:GLN:HG3	1:y:268:ALA:HB3	1.91	0.52
1:z:101:GLN:CB	1:z:176:VAL:HG11	2.40	0.52
1:2:97:PHE:HA	1:2:185:TRP:CH2	2.44	0.52
1:8:399:PHE:CD1	1:8:400:PRO:HD2	2.45	0.52
1:C:97:PHE:HA	1:C:185:TRP:CH2	2.45	0.51
1:D:92:THR:O	1:D:189:GLN:NE2	2.39	0.51
1:G:229:LEU:HD22	1:G:233:GLU:HB3	1.92	0.51
1:I:229:LEU:HD22	1:I:233:GLU:HB3	1.92	0.51
1:J:399:PHE:CD1	1:J:400:PRO:HD2	2.45	0.51
1:L:399:PHE:CD1	1:L:400:PRO:HD2	2.45	0.51
1:M:97:PHE:HA	1:M:185:TRP:CH2	2.44	0.51
1:T:398:MET:HG2	1:d:398:MET:HE2	1.92	0.51
1:Y:399:PHE:CD1	1:Y:400:PRO:HD2	2.45	0.51
1:Z:287:TYR:CZ	1:4:79:PRO:HG3	2.45	0.51
1:Z:399:PHE:CD1	1:Z:400:PRO:HD2	2.45	0.51
1:b:229:LEU:HD22	1:b:233:GLU:HB3	1.92	0.51
1:c:268:ALA:HB3	1:o:354:GLN:HG3	1.92	0.51
1:c:399:PHE:CD1	1:c:400:PRO:HD2	2.45	0.51
1:g:97:PHE:HA	1:g:185:TRP:CH2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:399:PHE:CD1	1:i:400:PRO:HD2	2.45	0.51
1:j:92:THR:O	1:j:189:GLN:NE2	2.39	0.51
1:m:398:MET:HG2	1:n:398:MET:HE2	1.92	0.51
1:r:97:PHE:HA	1:r:185:TRP:CH2	2.44	0.51
1:t:97:PHE:HA	1:t:185:TRP:CH2	2.44	0.51
1:z:399:PHE:CD1	1:z:400:PRO:HD2	2.45	0.51
1:B:101:GLN:CB	1:B:176:VAL:HG11	2.40	0.51
1:C:531:LYS:NZ	1:b:423:ASP:OD2	2.29	0.51
1:G:97:PHE:HA	1:G:185:TRP:CH2	2.44	0.51
1:J:98:ASN:ND2	1:J:175:ASP:OD1	2.39	0.51
1:K:398:MET:HG2	1:a:398:MET:HE2	1.92	0.51
1:O:101:GLN:CB	1:O:176:VAL:HG11	2.40	0.51
1:R:531:LYS:NZ	1:S:423:ASP:OD2	2.30	0.51
1:S:97:PHE:HA	1:S:185:TRP:CH2	2.44	0.51
1:X:354:GLN:HG3	1:e:268:ALA:HB3	1.92	0.51
1:a:398:MET:HG2	1:8:398:MET:HE2	1.92	0.51
1:e:399:PHE:CD1	1:e:400:PRO:HD2	2.45	0.51
1:g:399:PHE:CD1	1:g:400:PRO:HD2	2.45	0.51
1:k:339:PRO:HG3	1:k:353:ILE:HD11	1.91	0.51
1:l:101:GLN:CB	1:l:176:VAL:HG11	2.40	0.51
1:q:268:ALA:HB3	1:r:354:GLN:HG3	1.91	0.51
1:t:229:LEU:HD22	1:t:233:GLU:HB3	1.92	0.51
1:1:98:ASN:ND2	1:1:175:ASP:OD1	2.39	0.51
1:1:101:GLN:CB	1:1:176:VAL:HG11	2.40	0.51
1:2:229:LEU:HD22	1:2:233:GLU:HB3	1.92	0.51
1:5:398:MET:HG2	1:6:398:MET:HE2	1.91	0.51
1:7:399:PHE:CD1	1:7:400:PRO:HD2	2.45	0.51
1:D:97:PHE:HA	1:D:185:TRP:CH2	2.45	0.51
1:E:206:ASN:ND2	1:E:324:THR:HA	2.26	0.51
1:F:399:PHE:CD1	1:F:400:PRO:HD2	2.45	0.51
1:H:268:ALA:HB3	1:W:354:GLN:HG3	1.90	0.51
1:I:206:ASN:ND2	1:I:324:THR:HA	2.26	0.51
1:J:229:LEU:HD22	1:J:233:GLU:HB3	1.92	0.51
1:P:92:THR:O	1:P:189:GLN:NE2	2.39	0.51
1:W:101:GLN:CB	1:W:176:VAL:HG11	2.40	0.51
1:W:339:PRO:HG3	1:W:353:ILE:HD11	1.91	0.51
1:Z:398:MET:HE2	1:3:398:MET:HG2	1.92	0.51
1:b:101:GLN:CB	1:b:176:VAL:HG11	2.40	0.51
1:d:97:PHE:HA	1:d:185:TRP:CH2	2.44	0.51
1:e:101:GLN:CB	1:e:176:VAL:HG11	2.40	0.51
1:f:423:ASP:OD2	1:g:531:LYS:NZ	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:97:PHE:HA	1:k:185:TRP:CH2	2.44	0.51
1:l:339:PRO:HG3	1:l:353:ILE:HD11	1.91	0.51
1:n:97:PHE:HA	1:n:185:TRP:CH2	2.44	0.51
1:n:101:GLN:CB	1:n:176:VAL:HG11	2.40	0.51
1:y:399:PHE:CD1	1:y:400:PRO:HD2	2.45	0.51
1:6:101:GLN:CB	1:6:176:VAL:HG11	2.40	0.51
1:6:339:PRO:HG3	1:6:353:ILE:HD11	1.91	0.51
1:D:206:ASN:ND2	1:D:324:THR:HA	2.26	0.51
1:F:206:ASN:ND2	1:F:324:THR:HA	2.26	0.51
1:H:398:MET:HG2	1:W:398:MET:HE2	1.91	0.51
1:M:101:GLN:CB	1:M:176:VAL:HG11	2.40	0.51
1:T:399:PHE:CD1	1:T:400:PRO:HD2	2.45	0.51
1:W:92:THR:O	1:W:189:GLN:NE2	2.39	0.51
1:X:97:PHE:HA	1:X:185:TRP:CH2	2.44	0.51
1:X:206:ASN:ND2	1:X:324:THR:HA	2.26	0.51
1:Y:206:ASN:ND2	1:Y:324:THR:HA	2.26	0.51
1:c:302:ALA:O	1:c:351:TYR:OH	2.17	0.51
1:d:101:GLN:CB	1:d:176:VAL:HG11	2.40	0.51
1:f:101:GLN:CB	1:f:176:VAL:HG11	2.40	0.51
1:h:101:GLN:CB	1:h:176:VAL:HG11	2.40	0.51
1:o:97:PHE:HA	1:o:185:TRP:CH2	2.44	0.51
1:p:399:PHE:CD1	1:p:400:PRO:HD2	2.45	0.51
1:w:206:ASN:ND2	1:w:324:THR:HA	2.26	0.51
1:w:398:MET:HE2	1:y:398:MET:HG2	1.92	0.51
1:y:206:ASN:ND2	1:y:324:THR:HA	2.26	0.51
1:1:398:MET:HG2	1:2:398:MET:HE2	1.92	0.51
1:8:101:GLN:CB	1:8:176:VAL:HG11	2.40	0.51
1:B:98:ASN:ND2	1:B:175:ASP:OD1	2.39	0.51
1:B:398:MET:HG2	1:J:398:MET:HE2	1.92	0.51
1:E:354:GLN:HG3	1:F:268:ALA:HB3	1.91	0.51
1:H:423:ASP:OD2	1:Y:531:LYS:NZ	2.29	0.51
1:J:206:ASN:ND2	1:J:324:THR:HA	2.26	0.51
1:K:206:ASN:ND2	1:K:324:THR:HA	2.26	0.51
1:R:229:LEU:HD22	1:R:233:GLU:HB3	1.92	0.51
1:R:268:ALA:HB3	1:S:354:GLN:HG3	1.91	0.51
1:V:229:LEU:HD22	1:V:233:GLU:HB3	1.92	0.51
1:Z:101:GLN:CB	1:Z:176:VAL:HG11	2.40	0.51
1:a:206:ASN:ND2	1:a:324:THR:HA	2.26	0.51
1:a:229:LEU:HD22	1:a:233:GLU:HB3	1.92	0.51
1:c:101:GLN:CB	1:c:176:VAL:HG11	2.40	0.51
1:f:206:ASN:ND2	1:f:324:THR:HA	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:339:PRO:HG3	1:j:353:ILE:HD11	1.91	0.51
1:k:206:ASN:ND2	1:k:324:THR:HA	2.26	0.51
1:l:399:PHE:CD1	1:l:400:PRO:HD2	2.45	0.51
1:m:399:PHE:CD1	1:m:400:PRO:HD2	2.45	0.51
1:o:206:ASN:ND2	1:o:324:THR:HA	2.26	0.51
1:q:229:LEU:HD22	1:q:233:GLU:HB3	1.92	0.51
1:q:531:LYS:NZ	1:r:423:ASP:OD2	2.30	0.51
1:s:206:ASN:ND2	1:s:324:THR:HA	2.26	0.51
1:t:206:ASN:ND2	1:t:324:THR:HA	2.26	0.51
1:u:206:ASN:ND2	1:u:324:THR:HA	2.26	0.51
1:v:302:ALA:O	1:v:351:TYR:OH	2.17	0.51
1:2:98:ASN:ND2	1:2:175:ASP:OD1	2.39	0.51
1:3:206:ASN:ND2	1:3:324:THR:HA	2.26	0.51
1:4:206:ASN:ND2	1:4:324:THR:HA	2.26	0.51
1:5:268:ALA:HB3	1:6:354:GLN:HG3	1.90	0.51
1:6:92:THR:O	1:6:189:GLN:NE2	2.39	0.51
1:7:206:ASN:ND2	1:7:324:THR:HA	2.26	0.51
1:A:399:PHE:CD1	1:A:400:PRO:HD2	2.45	0.51
1:K:101:GLN:CB	1:K:176:VAL:HG11	2.40	0.51
1:O:339:PRO:HG3	1:O:353:ILE:HD11	1.91	0.51
1:O:399:PHE:CD1	1:O:400:PRO:HD2	2.45	0.51
1:P:339:PRO:HG3	1:P:353:ILE:HD11	1.91	0.51
1:R:357:GLN:HG2	1:R:520:GLN:HB3	1.93	0.51
1:S:339:PRO:HG3	1:S:353:ILE:HD11	1.91	0.51
1:T:339:PRO:HG3	1:T:353:ILE:HD11	1.91	0.51
1:U:206:ASN:ND2	1:U:324:THR:HA	2.26	0.51
1:V:206:ASN:ND2	1:V:324:THR:HA	2.26	0.51
1:Z:206:ASN:ND2	1:Z:324:THR:HA	2.26	0.51
1:Z:357:GLN:HG2	1:Z:520:GLN:HB3	1.93	0.51
1:b:206:ASN:ND2	1:b:324:THR:HA	2.26	0.51
1:b:399:PHE:CD1	1:b:400:PRO:HD2	2.45	0.51
1:d:339:PRO:HG3	1:d:353:ILE:HD11	1.91	0.51
1:f:399:PHE:CD1	1:f:400:PRO:HD2	2.45	0.51
1:p:206:ASN:ND2	1:p:324:THR:HA	2.26	0.51
1:r:101:GLN:CB	1:r:176:VAL:HG11	2.40	0.51
1:v:206:ASN:ND2	1:v:324:THR:HA	2.26	0.51
1:v:399:PHE:CD1	1:v:400:PRO:HD2	2.45	0.51
1:x:339:PRO:HG3	1:x:353:ILE:HD11	1.91	0.51
1:1:399:PHE:CD1	1:1:400:PRO:HD2	2.45	0.51
1:4:101:GLN:CB	1:4:176:VAL:HG11	2.40	0.51
1:8:206:ASN:ND2	1:8:324:THR:HA	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:229:LEU:HD22	1:8:233:GLU:HB3	1.92	0.51
1:A:206:ASN:ND2	1:A:324:THR:HA	2.26	0.51
1:B:399:PHE:CD1	1:B:400:PRO:HD2	2.45	0.51
1:C:91:SER:HB2	1:M:262:LYS:HZ1	1.76	0.51
1:C:357:GLN:HG2	1:C:520:GLN:HB3	1.93	0.51
1:E:229:LEU:HD22	1:E:233:GLU:HB3	1.92	0.51
1:F:398:MET:HE2	1:Q:398:MET:HG2	1.92	0.51
1:G:206:ASN:ND2	1:G:324:THR:HA	2.26	0.51
1:H:398:MET:HE2	1:Y:398:MET:HG2	1.92	0.51
1:P:357:GLN:HG2	1:P:520:GLN:HB3	1.93	0.51
1:S:101:GLN:CB	1:S:176:VAL:HG11	2.40	0.51
1:S:357:GLN:HG2	1:S:520:GLN:HB3	1.93	0.51
1:T:398:MET:HE2	1:l:398:MET:HG2	1.92	0.51
1:V:399:PHE:CD1	1:V:400:PRO:HD2	2.45	0.51
1:d:399:PHE:CD1	1:d:400:PRO:HD2	2.45	0.51
1:m:206:ASN:ND2	1:m:324:THR:HA	2.26	0.51
1:m:339:PRO:HG3	1:m:353:ILE:HD11	1.91	0.51
1:n:399:PHE:CD1	1:n:400:PRO:HD2	2.45	0.51
1:o:92:THR:O	1:o:189:GLN:NE2	2.39	0.51
1:p:229:LEU:HD22	1:p:233:GLU:HB3	1.92	0.51
1:r:339:PRO:HG3	1:r:353:ILE:HD11	1.91	0.51
1:r:357:GLN:HG2	1:r:520:GLN:HB3	1.93	0.51
1:t:399:PHE:CD1	1:t:400:PRO:HD2	2.45	0.51
1:w:229:LEU:HD22	1:w:233:GLU:HB3	1.92	0.51
1:1:339:PRO:HG3	1:1:353:ILE:HD11	1.91	0.51
1:2:206:ASN:ND2	1:2:324:THR:HA	2.26	0.51
1:3:229:LEU:HD22	1:3:233:GLU:HB3	1.92	0.51
1:5:398:MET:HE2	1:7:398:MET:HG2	1.92	0.51
1:B:339:PRO:HG3	1:B:353:ILE:HD11	1.91	0.51
1:C:348:ASP:OD1	1:C:349:LEU:N	2.39	0.51
1:E:357:GLN:HG2	1:E:520:GLN:HB3	1.93	0.51
1:G:399:PHE:CD1	1:G:400:PRO:HD2	2.45	0.51
1:I:302:ALA:O	1:I:351:TYR:OH	2.17	0.51
1:O:398:MET:HG2	1:m:398:MET:HE2	1.92	0.51
1:Q:339:PRO:HG3	1:Q:353:ILE:HD11	1.91	0.51
1:S:398:MET:HG2	1:U:398:MET:HE2	1.91	0.51
1:T:423:ASP:OD2	1:l:531:LYS:NZ	2.29	0.51
1:V:101:GLN:CB	1:V:176:VAL:HG11	2.40	0.51
1:Z:229:LEU:HD22	1:Z:233:GLU:HB3	1.92	0.51
1:a:101:GLN:CB	1:a:176:VAL:HG11	2.40	0.51
1:g:357:GLN:HG2	1:g:520:GLN:HB3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:101:GLN:CB	1:i:176:VAL:HG11	2.40	0.51
1:j:357:GLN:HG2	1:j:520:GLN:HB3	1.93	0.51
1:l:92:THR:O	1:l:189:GLN:NE2	2.39	0.51
1:l:348:ASP:OD1	1:l:349:LEU:N	2.39	0.51
1:n:339:PRO:HG3	1:n:353:ILE:HD11	1.91	0.51
1:p:101:GLN:CB	1:p:176:VAL:HG11	2.40	0.51
1:q:357:GLN:HG2	1:q:520:GLN:HB3	1.93	0.51
1:r:398:MET:HG2	1:s:398:MET:HE2	1.91	0.51
1:r:399:PHE:CD1	1:r:400:PRO:HD2	2.45	0.51
1:t:101:GLN:CB	1:t:176:VAL:HG11	2.40	0.51
1:w:357:GLN:HG2	1:w:520:GLN:HB3	1.93	0.51
1:8:357:GLN:HG2	1:8:520:GLN:HB3	1.93	0.51
1:A:302:ALA:O	1:A:351:TYR:OH	2.17	0.51
1:D:229:LEU:HD22	1:D:233:GLU:HB3	1.92	0.51
1:E:398:MET:HE2	1:F:398:MET:HG2	1.92	0.51
1:G:101:GLN:CB	1:G:176:VAL:HG11	2.40	0.51
1:I:97:PHE:HA	1:I:185:TRP:CH2	2.44	0.51
1:O:92:THR:O	1:O:189:GLN:NE2	2.39	0.51
1:O:206:ASN:ND2	1:O:324:THR:HA	2.26	0.51
1:T:206:ASN:ND2	1:T:324:THR:HA	2.26	0.51
1:W:98:ASN:ND2	1:W:175:ASP:OD1	2.39	0.51
1:f:398:MET:HG2	1:h:398:MET:HE2	1.91	0.51
1:g:348:ASP:OD1	1:g:349:LEU:N	2.39	0.51
1:m:98:ASN:ND2	1:m:175:ASP:OD1	2.39	0.51
1:3:101:GLN:CB	1:3:176:VAL:HG11	2.40	0.51
1:5:206:ASN:ND2	1:5:324:THR:HA	2.26	0.51
1:B:357:GLN:HG2	1:B:520:GLN:HB3	1.93	0.51
1:D:357:GLN:HG2	1:D:520:GLN:HB3	1.93	0.51
1:K:197:HIS:O	1:K:201:GLU:HG3	2.11	0.51
1:M:229:LEU:HD22	1:M:233:GLU:HB3	1.92	0.51
1:N:101:GLN:CB	1:N:176:VAL:HG11	2.40	0.51
1:Q:101:GLN:CB	1:Q:176:VAL:HG11	2.40	0.51
1:Q:399:PHE:CD1	1:Q:400:PRO:HD2	2.45	0.51
1:S:399:PHE:CD1	1:S:400:PRO:HD2	2.45	0.51
1:T:98:ASN:ND2	1:T:175:ASP:OD1	2.39	0.51
1:T:101:GLN:CB	1:T:176:VAL:HG11	2.40	0.51
1:U:357:GLN:HG2	1:U:520:GLN:HB3	1.93	0.51
1:X:101:GLN:CB	1:X:176:VAL:HG11	2.40	0.51
1:e:339:PRO:HG3	1:e:353:ILE:HD11	1.91	0.51
1:g:206:ASN:ND2	1:g:324:THR:HA	2.26	0.51
1:g:229:LEU:HD22	1:g:233:GLU:HB3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:229:LEU:HD22	1:h:233:GLU:HB3	1.92	0.51
1:i:339:PRO:HG3	1:i:353:ILE:HD11	1.91	0.51
1:j:206:ASN:ND2	1:j:324:THR:HA	2.26	0.51
1:k:357:GLN:HG2	1:k:520:GLN:HB3	1.93	0.51
1:l:206:ASN:ND2	1:l:324:THR:HA	2.26	0.51
1:q:348:ASP:OD1	1:q:349:LEU:N	2.39	0.51
1:r:206:ASN:ND2	1:r:324:THR:HA	2.26	0.51
1:u:97:PHE:HA	1:u:185:TRP:CH2	2.44	0.51
1:x:101:GLN:CB	1:x:176:VAL:HG11	2.40	0.51
1:x:399:PHE:CD1	1:x:400:PRO:HD2	2.45	0.51
1:1:197:HIS:O	1:1:201:GLU:HG3	2.11	0.51
1:1:357:GLN:HG2	1:1:520:GLN:HB3	1.93	0.51
1:2:197:HIS:O	1:2:201:GLU:HG3	2.12	0.51
1:4:197:HIS:O	1:4:201:GLU:HG3	2.11	0.51
1:6:98:ASN:ND2	1:6:175:ASP:OD1	2.39	0.51
1:A:197:HIS:O	1:A:201:GLU:HG3	2.12	0.50
1:B:197:HIS:O	1:B:201:GLU:HG3	2.12	0.50
1:C:229:LEU:HD22	1:C:233:GLU:HB3	1.92	0.50
1:F:101:GLN:CB	1:F:176:VAL:HG11	2.40	0.50
1:H:206:ASN:ND2	1:H:324:THR:HA	2.26	0.50
1:J:101:GLN:CB	1:J:176:VAL:HG11	2.40	0.50
1:J:197:HIS:O	1:J:201:GLU:HG3	2.12	0.50
1:M:206:ASN:ND2	1:M:324:THR:HA	2.26	0.50
1:M:398:MET:HE2	1:b:398:MET:HG2	1.92	0.50
1:N:339:PRO:HG3	1:N:353:ILE:HD11	1.91	0.50
1:O:348:ASP:OD1	1:O:349:LEU:N	2.39	0.50
1:P:101:GLN:CB	1:P:176:VAL:HG11	2.40	0.50
1:S:206:ASN:ND2	1:S:324:THR:HA	2.26	0.50
1:X:92:THR:O	1:X:189:GLN:NE2	2.39	0.50
1:a:197:HIS:O	1:a:201:GLU:HG3	2.12	0.50
1:c:339:PRO:HG3	1:c:353:ILE:HD11	1.91	0.50
1:h:206:ASN:ND2	1:h:324:THR:HA	2.26	0.50
1:h:399:PHE:CD1	1:h:400:PRO:HD2	2.45	0.50
1:i:229:LEU:HD22	1:i:233:GLU:HB3	1.92	0.50
1:m:101:GLN:CB	1:m:176:VAL:HG11	2.40	0.50
1:o:101:GLN:CB	1:o:176:VAL:HG11	2.40	0.50
1:s:357:GLN:HG2	1:s:520:GLN:HB3	1.93	0.50
1:z:229:LEU:HD22	1:z:233:GLU:HB3	1.92	0.50
1:3:197:HIS:O	1:3:201:GLU:HG3	2.12	0.50
1:3:357:GLN:HG2	1:3:520:GLN:HB3	1.93	0.50
1:C:206:ASN:ND2	1:C:324:THR:HA	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:399:PHE:CD1	1:H:400:PRO:HD2	2.45	0.50
1:J:357:GLN:HG2	1:J:520:GLN:HB3	1.93	0.50
1:L:206:ASN:ND2	1:L:324:THR:HA	2.26	0.50
1:L:229:LEU:HD22	1:L:233:GLU:HB3	1.92	0.50
1:M:399:PHE:CD1	1:M:400:PRO:HD2	2.45	0.50
1:N:206:ASN:ND2	1:N:324:THR:HA	2.26	0.50
1:N:229:LEU:HD22	1:N:233:GLU:HB3	1.92	0.50
1:P:206:ASN:ND2	1:P:324:THR:HA	2.26	0.50
1:R:206:ASN:ND2	1:R:324:THR:HA	2.26	0.50
1:W:206:ASN:ND2	1:W:324:THR:HA	2.26	0.50
1:a:399:PHE:CD1	1:a:400:PRO:HD2	2.45	0.50
1:d:98:ASN:ND2	1:d:175:ASP:OD1	2.39	0.50
1:d:229:LEU:HD22	1:d:233:GLU:HB3	1.92	0.50
1:j:101:GLN:CB	1:j:176:VAL:HG11	2.40	0.50
1:k:229:LEU:HD22	1:k:233:GLU:HB3	1.92	0.50
1:p:357:GLN:HG2	1:p:520:GLN:HB3	1.93	0.50
1:q:197:HIS:O	1:q:201:GLU:HG3	2.11	0.50
1:v:197:HIS:O	1:v:201:GLU:HG3	2.12	0.50
1:y:101:GLN:CB	1:y:176:VAL:HG11	2.40	0.50
1:z:197:HIS:O	1:z:201:GLU:HG3	2.11	0.50
1:1:206:ASN:ND2	1:1:324:THR:HA	2.26	0.50
1:2:357:GLN:HG2	1:2:520:GLN:HB3	1.93	0.50
1:4:357:GLN:HG2	1:4:520:GLN:HB3	1.93	0.50
1:5:399:PHE:CD1	1:5:400:PRO:HD2	2.45	0.50
1:C:101:GLN:CB	1:C:176:VAL:HG11	2.40	0.50
1:E:101:GLN:CB	1:E:176:VAL:HG11	2.40	0.50
1:L:197:HIS:O	1:L:201:GLU:HG3	2.11	0.50
1:R:101:GLN:CB	1:R:176:VAL:HG11	2.40	0.50
1:S:197:HIS:O	1:S:201:GLU:HG3	2.12	0.50
1:a:357:GLN:HG2	1:a:520:GLN:HB3	1.93	0.50
1:f:197:HIS:O	1:f:201:GLU:HG3	2.12	0.50
1:g:101:GLN:CB	1:g:176:VAL:HG11	2.40	0.50
1:h:197:HIS:O	1:h:201:GLU:HG3	2.11	0.50
1:i:206:ASN:ND2	1:i:324:THR:HA	2.26	0.50
1:i:398:MET:HE2	1:k:398:MET:HG2	1.92	0.50
1:k:101:GLN:CB	1:k:176:VAL:HG11	2.40	0.50
1:k:348:ASP:OD1	1:k:349:LEU:N	2.39	0.50
1:q:101:GLN:CB	1:q:176:VAL:HG11	2.40	0.50
1:q:206:ASN:ND2	1:q:324:THR:HA	2.26	0.50
1:r:197:HIS:O	1:r:201:GLU:HG3	2.12	0.50
1:u:197:HIS:O	1:u:201:GLU:HG3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:101:GLN:CB	1:w:176:VAL:HG11	2.40	0.50
1:z:206:ASN:ND2	1:z:324:THR:HA	2.26	0.50
1:2:101:GLN:CB	1:2:176:VAL:HG11	2.40	0.50
1:6:206:ASN:ND2	1:6:324:THR:HA	2.26	0.50
1:6:229:LEU:HD22	1:6:233:GLU:HB3	1.92	0.50
1:6:302:ALA:O	1:6:351:TYR:OH	2.17	0.50
1:B:206:ASN:ND2	1:B:324:THR:HA	2.26	0.50
1:D:348:ASP:OD1	1:D:349:LEU:N	2.39	0.50
1:D:398:MET:HG2	1:N:398:MET:HE2	1.92	0.50
1:G:197:HIS:O	1:G:201:GLU:HG3	2.12	0.50
1:I:197:HIS:O	1:I:201:GLU:HG3	2.12	0.50
1:L:348:ASP:OD1	1:L:349:LEU:N	2.39	0.50
1:M:197:HIS:O	1:M:201:GLU:HG3	2.12	0.50
1:R:197:HIS:O	1:R:201:GLU:HG3	2.12	0.50
1:R:250:ARG:O	1:R:536:LYS:HG2	2.12	0.50
1:R:348:ASP:OD1	1:R:349:LEU:N	2.39	0.50
1:S:98:ASN:ND2	1:S:175:ASP:OD1	2.39	0.50
1:S:250:ARG:O	1:S:536:LYS:HG2	2.12	0.50
1:U:229:LEU:HD22	1:U:233:GLU:HB3	1.92	0.50
1:V:398:MET:HG2	1:e:398:MET:HE2	1.92	0.50
1:W:229:LEU:HD22	1:W:233:GLU:HB3	1.92	0.50
1:Z:250:ARG:O	1:Z:536:LYS:HG2	2.12	0.50
1:b:197:HIS:O	1:b:201:GLU:HG3	2.12	0.50
1:c:250:ARG:O	1:c:536:LYS:HG2	2.12	0.50
1:c:398:MET:HE2	1:p:398:MET:HG2	1.92	0.50
1:e:250:ARG:O	1:e:536:LYS:HG2	2.12	0.50
1:n:229:LEU:HD22	1:n:233:GLU:HB3	1.92	0.50
1:r:250:ARG:O	1:r:536:LYS:HG2	2.12	0.50
1:s:229:LEU:HD22	1:s:233:GLU:HB3	1.92	0.50
1:t:197:HIS:O	1:t:201:GLU:HG3	2.12	0.50
1:3:398:MET:HE2	1:4:398:MET:HG2	1.93	0.50
1:3:399:PHE:CD1	1:3:400:PRO:HD2	2.45	0.50
1:6:399:PHE:CD1	1:6:400:PRO:HD2	2.45	0.50
1:7:197:HIS:O	1:7:201:GLU:HG3	2.12	0.50
1:8:250:ARG:O	1:8:536:LYS:HG2	2.12	0.50
1:D:101:GLN:CB	1:D:176:VAL:HG11	2.40	0.50
1:I:250:ARG:O	1:I:536:LYS:HG2	2.12	0.50
1:K:357:GLN:HG2	1:K:520:GLN:HB3	1.93	0.50
1:N:250:ARG:O	1:N:536:LYS:HG2	2.12	0.50
1:W:357:GLN:HG2	1:W:520:GLN:HB3	1.93	0.50
1:W:399:PHE:CD1	1:W:400:PRO:HD2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:250:ARG:O	1:X:536:LYS:HG2	2.12	0.50
1:Y:197:HIS:O	1:Y:201:GLU:HG3	2.12	0.50
1:d:197:HIS:O	1:d:201:GLU:HG3	2.12	0.50
1:h:302:ALA:O	1:h:351:TYR:OH	2.17	0.50
1:i:250:ARG:O	1:i:536:LYS:HG2	2.12	0.50
1:m:357:GLN:HG2	1:m:520:GLN:HB3	1.93	0.50
1:n:98:ASN:ND2	1:n:175:ASP:OD1	2.39	0.50
1:o:250:ARG:O	1:o:536:LYS:HG2	2.12	0.50
1:q:250:ARG:O	1:q:536:LYS:HG2	2.12	0.50
1:x:197:HIS:O	1:x:201:GLU:HG3	2.11	0.50
1:5:101:GLN:CB	1:5:176:VAL:HG11	2.40	0.50
1:H:101:GLN:CB	1:H:176:VAL:HG11	2.40	0.50
1:O:250:ARG:O	1:O:536:LYS:HG2	2.12	0.50
1:T:250:ARG:O	1:T:536:LYS:HG2	2.12	0.50
1:T:357:GLN:HG2	1:T:520:GLN:HB3	1.93	0.50
1:V:357:GLN:HG2	1:V:520:GLN:HB3	1.93	0.50
1:c:206:ASN:ND2	1:c:324:THR:HA	2.26	0.50
1:d:206:ASN:ND2	1:d:324:THR:HA	2.26	0.50
1:h:98:ASN:ND2	1:h:175:ASP:OD1	2.39	0.50
1:m:250:ARG:O	1:m:536:LYS:HG2	2.12	0.50
1:n:197:HIS:O	1:n:201:GLU:HG3	2.12	0.50
1:n:206:ASN:ND2	1:n:324:THR:HA	2.26	0.50
1:u:250:ARG:O	1:u:536:LYS:HG2	2.12	0.50
1:v:98:ASN:ND2	1:v:175:ASP:OD1	2.39	0.50
1:6:357:GLN:HG2	1:6:520:GLN:HB3	1.93	0.50
1:G:250:ARG:O	1:G:536:LYS:HG2	2.12	0.50
1:H:357:GLN:HG2	1:H:520:GLN:HB3	1.93	0.50
1:L:250:ARG:O	1:L:536:LYS:HG2	2.12	0.50
1:N:197:HIS:O	1:N:201:GLU:HG3	2.12	0.50
1:N:357:GLN:HG2	1:N:520:GLN:HB3	1.93	0.50
1:O:357:GLN:HG2	1:O:520:GLN:HB3	1.93	0.50
1:P:250:ARG:O	1:P:536:LYS:HG2	2.12	0.50
1:Q:197:HIS:O	1:Q:201:GLU:HG3	2.12	0.50
1:W:302:ALA:O	1:W:351:TYR:OH	2.17	0.50
1:g:250:ARG:O	1:g:536:LYS:HG2	2.12	0.50
1:j:250:ARG:O	1:j:536:LYS:HG2	2.12	0.50
1:l:250:ARG:O	1:l:536:LYS:HG2	2.12	0.50
1:r:98:ASN:ND2	1:r:175:ASP:OD1	2.39	0.50
1:t:250:ARG:O	1:t:536:LYS:HG2	2.12	0.50
1:z:250:ARG:O	1:z:536:LYS:HG2	2.12	0.50
1:5:250:ARG:O	1:5:536:LYS:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:357:GLN:HG2	1:5:520:GLN:HB3	1.93	0.50
1:A:98:ASN:ND2	1:A:175:ASP:OD1	2.39	0.50
1:H:250:ARG:O	1:H:536:LYS:HG2	2.12	0.50
1:L:357:GLN:HG2	1:L:520:GLN:HB3	1.93	0.50
1:L:455:SER:OG	1:L:457:ASN:O	2.28	0.50
1:M:98:ASN:ND2	1:M:175:ASP:OD1	2.39	0.50
1:e:206:ASN:ND2	1:e:324:THR:HA	2.26	0.50
1:i:357:GLN:HG2	1:i:520:GLN:HB3	1.93	0.50
1:n:250:ARG:O	1:n:536:LYS:HG2	2.12	0.50
1:x:250:ARG:O	1:x:536:LYS:HG2	2.12	0.50
1:y:357:GLN:HG2	1:y:520:GLN:HB3	1.93	0.50
1:z:348:ASP:OD1	1:z:349:LEU:N	2.39	0.50
1:C:197:HIS:O	1:C:201:GLU:HG3	2.12	0.50
1:C:250:ARG:O	1:C:536:LYS:HG2	2.12	0.50
1:D:197:HIS:O	1:D:201:GLU:HG3	2.12	0.50
1:Q:206:ASN:ND2	1:Q:324:THR:HA	2.26	0.50
1:Q:250:ARG:O	1:Q:536:LYS:HG2	2.12	0.50
1:W:250:ARG:O	1:W:536:LYS:HG2	2.12	0.50
1:c:197:HIS:O	1:c:201:GLU:HG3	2.12	0.50
1:f:357:GLN:HG2	1:f:520:GLN:HB3	1.93	0.50
1:i:197:HIS:O	1:i:201:GLU:HG3	2.12	0.50
1:k:197:HIS:O	1:k:201:GLU:HG3	2.11	0.50
1:l:357:GLN:HG2	1:l:520:GLN:HB3	1.93	0.50
1:n:357:GLN:HG2	1:n:520:GLN:HB3	1.93	0.50
1:p:250:ARG:O	1:p:536:LYS:HG2	2.12	0.50
1:8:348:ASP:OD1	1:8:349:LEU:N	2.39	0.50
1:F:357:GLN:HG2	1:F:520:GLN:HB3	1.93	0.49
1:V:197:HIS:O	1:V:201:GLU:HG3	2.11	0.49
1:Y:250:ARG:O	1:Y:536:LYS:HG2	2.12	0.49
1:b:357:GLN:HG2	1:b:520:GLN:HB3	1.93	0.49
1:e:197:HIS:O	1:e:201:GLU:HG3	2.12	0.49
1:g:197:HIS:O	1:g:201:GLU:HG3	2.12	0.49
1:l:197:HIS:O	1:l:201:GLU:HG3	2.12	0.49
1:p:197:HIS:O	1:p:201:GLU:HG3	2.12	0.49
1:t:357:GLN:HG2	1:t:520:GLN:HB3	1.93	0.49
1:y:197:HIS:O	1:y:201:GLU:HG3	2.12	0.49
1:z:357:GLN:HG2	1:z:520:GLN:HB3	1.93	0.49
1:1:302:ALA:O	1:1:351:TYR:OH	2.17	0.49
1:7:250:ARG:O	1:7:536:LYS:HG2	2.12	0.49
1:8:302:ALA:O	1:8:351:TYR:OH	2.17	0.49
1:U:197:HIS:O	1:U:201:GLU:HG3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:250:ARG:O	1:U:536:LYS:HG2	2.12	0.49
1:V:250:ARG:O	1:V:536:LYS:HG2	2.12	0.49
1:d:250:ARG:O	1:d:536:LYS:HG2	2.12	0.49
1:d:357:GLN:HG2	1:d:520:GLN:HB3	1.93	0.49
1:s:250:ARG:O	1:s:536:LYS:HG2	2.12	0.49
1:x:206:ASN:ND2	1:x:324:THR:HA	2.26	0.49
1:6:250:ARG:O	1:6:536:LYS:HG2	2.12	0.49
1:E:197:HIS:O	1:E:201:GLU:HG3	2.12	0.49
1:E:250:ARG:O	1:E:536:LYS:HG2	2.12	0.49
1:G:357:GLN:HG2	1:G:520:GLN:HB3	1.93	0.49
1:I:357:GLN:HG2	1:I:520:GLN:HB3	1.93	0.49
1:O:197:HIS:O	1:O:201:GLU:HG3	2.12	0.49
1:c:357:GLN:HG2	1:c:520:GLN:HB3	1.93	0.49
1:k:250:ARG:O	1:k:536:LYS:HG2	2.12	0.49
1:p:98:ASN:ND2	1:p:175:ASP:OD1	2.39	0.49
1:s:197:HIS:O	1:s:201:GLU:HG3	2.11	0.49
1:v:357:GLN:HG2	1:v:520:GLN:HB3	1.93	0.49
1:w:250:ARG:O	1:w:536:LYS:HG2	2.12	0.49
1:D:250:ARG:O	1:D:536:LYS:HG2	2.12	0.49
1:F:197:HIS:O	1:F:201:GLU:HG3	2.12	0.49
1:M:357:GLN:HG2	1:M:520:GLN:HB3	1.93	0.49
1:N:348:ASP:OD1	1:N:349:LEU:N	2.39	0.49
1:e:357:GLN:HG2	1:e:520:GLN:HB3	1.93	0.49
1:u:98:ASN:ND2	1:u:175:ASP:OD1	2.39	0.49
1:u:357:GLN:HG2	1:u:520:GLN:HB3	1.93	0.49
1:w:197:HIS:O	1:w:201:GLU:HG3	2.12	0.49
1:y:98:ASN:ND2	1:y:175:ASP:OD1	2.39	0.49
1:A:250:ARG:O	1:A:536:LYS:HG2	2.12	0.49
1:A:357:GLN:HG2	1:A:520:GLN:HB3	1.93	0.49
1:F:250:ARG:O	1:F:536:LYS:HG2	2.12	0.49
1:V:98:ASN:ND2	1:V:175:ASP:OD1	2.39	0.49
1:W:197:HIS:O	1:W:201:GLU:HG3	2.12	0.49
1:b:250:ARG:O	1:b:536:LYS:HG2	2.12	0.49
1:v:250:ARG:O	1:v:536:LYS:HG2	2.12	0.49
1:3:423:ASP:OD2	1:4:531:LYS:NZ	2.29	0.49
1:B:302:ALA:O	1:B:351:TYR:OH	2.17	0.49
1:I:98:ASN:ND2	1:I:175:ASP:OD1	2.39	0.49
1:U:92:THR:O	1:U:189:GLN:NE2	2.39	0.49
1:Y:357:GLN:HG2	1:Y:520:GLN:HB3	1.93	0.49
1:Z:302:ALA:O	1:Z:351:TYR:OH	2.17	0.49
1:f:250:ARG:O	1:f:536:LYS:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:250:ARG:O	1:y:536:LYS:HG2	2.12	0.49
1:5:197:HIS:O	1:5:201:GLU:HG3	2.11	0.49
1:6:197:HIS:O	1:6:201:GLU:HG3	2.12	0.49
1:7:357:GLN:HG2	1:7:520:GLN:HB3	1.93	0.49
1:J:250:ARG:O	1:J:536:LYS:HG2	2.12	0.49
1:K:250:ARG:O	1:K:536:LYS:HG2	2.12	0.49
1:M:250:ARG:O	1:M:536:LYS:HG2	2.12	0.49
1:Z:197:HIS:O	1:Z:201:GLU:HG3	2.11	0.49
1:h:357:GLN:HG2	1:h:520:GLN:HB3	1.93	0.49
1:i:348:ASP:OD1	1:i:349:LEU:N	2.39	0.49
1:s:92:THR:O	1:s:189:GLN:NE2	2.39	0.49
1:s:98:ASN:ND2	1:s:175:ASP:OD1	2.39	0.49
1:1:372:PRO:HG3	1:2:322:ASP:HB2	1.95	0.49
1:F:92:THR:O	1:F:189:GLN:NE2	2.39	0.49
1:F:98:ASN:ND2	1:F:175:ASP:OD1	2.39	0.49
1:H:197:HIS:O	1:H:201:GLU:HG3	2.12	0.49
1:X:197:HIS:O	1:X:201:GLU:HG3	2.12	0.49
1:h:250:ARG:O	1:h:536:LYS:HG2	2.12	0.49
1:j:197:HIS:O	1:j:201:GLU:HG3	2.11	0.49
1:o:98:ASN:ND2	1:o:175:ASP:OD1	2.39	0.49
1:q:372:PRO:HG3	1:r:322:ASP:HB2	1.95	0.49
1:8:197:HIS:O	1:8:201:GLU:HG3	2.12	0.49
1:B:372:PRO:HG3	1:J:322:ASP:HB2	1.95	0.49
1:Q:357:GLN:HG2	1:Q:520:GLN:HB3	1.93	0.49
1:R:372:PRO:HG3	1:S:322:ASP:HB2	1.95	0.49
1:U:98:ASN:ND2	1:U:175:ASP:OD1	2.39	0.49
1:X:357:GLN:HG2	1:X:520:GLN:HB3	1.93	0.49
1:o:197:HIS:O	1:o:201:GLU:HG3	2.11	0.49
1:o:357:GLN:HG2	1:o:520:GLN:HB3	1.93	0.49
1:2:250:ARG:O	1:2:536:LYS:HG2	2.12	0.49
1:P:197:HIS:O	1:P:201:GLU:HG3	2.12	0.49
1:q:98:ASN:ND2	1:q:175:ASP:OD1	2.39	0.49
1:u:302:ALA:O	1:u:351:TYR:OH	2.17	0.49
1:x:357:GLN:HG2	1:x:520:GLN:HB3	1.93	0.49
1:4:250:ARG:O	1:4:536:LYS:HG2	2.12	0.49
1:M:348:ASP:OD1	1:M:349:LEU:N	2.39	0.48
1:O:531:LYS:NZ	1:m:423:ASP:OD2	2.29	0.48
1:X:98:ASN:ND2	1:X:175:ASP:OD1	2.39	0.48
1:y:92:THR:O	1:y:189:GLN:NE2	2.39	0.48
1:J:98:ASN:ND2	1:J:176:VAL:HG22	2.29	0.48
1:R:98:ASN:ND2	1:R:175:ASP:OD1	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:98:ASN:ND2	1:i:175:ASP:OD1	2.39	0.48
1:m:197:HIS:O	1:m:201:GLU:HG3	2.12	0.48
1:v:98:ASN:ND2	1:v:176:VAL:HG22	2.29	0.48
1:A:98:ASN:ND2	1:A:176:VAL:HG22	2.29	0.48
1:B:250:ARG:O	1:B:536:LYS:HG2	2.12	0.48
1:C:322:ASP:HB2	1:M:372:PRO:HG3	1.95	0.48
1:I:98:ASN:ND2	1:I:176:VAL:HG22	2.29	0.48
1:P:98:ASN:ND2	1:P:176:VAL:HG22	2.29	0.48
1:S:98:ASN:ND2	1:S:176:VAL:HG22	2.29	0.48
1:S:455:SER:OG	1:S:457:ASN:O	2.28	0.48
1:T:197:HIS:O	1:T:201:GLU:HG3	2.11	0.48
1:T:322:ASP:HB2	1:l:372:PRO:HG3	1.96	0.48
1:Y:98:ASN:ND2	1:Y:176:VAL:HG22	2.29	0.48
1:a:250:ARG:O	1:a:536:LYS:HG2	2.12	0.48
1:j:98:ASN:ND2	1:j:176:VAL:HG22	2.29	0.48
1:r:98:ASN:ND2	1:r:176:VAL:HG22	2.29	0.48
1:s:98:ASN:ND2	1:s:176:VAL:HG22	2.29	0.48
1:2:98:ASN:ND2	1:2:176:VAL:HG22	2.29	0.48
1:6:98:ASN:ND2	1:6:176:VAL:HG22	2.29	0.48
1:7:98:ASN:ND2	1:7:176:VAL:HG22	2.29	0.48
1:N:98:ASN:ND2	1:N:175:ASP:OD1	2.39	0.48
1:N:98:ASN:ND2	1:N:176:VAL:HG22	2.29	0.48
1:U:98:ASN:ND2	1:U:176:VAL:HG22	2.29	0.48
1:h:348:ASP:OD1	1:h:349:LEU:N	2.39	0.48
1:i:98:ASN:ND2	1:i:176:VAL:HG22	2.29	0.48
1:t:98:ASN:ND2	1:t:176:VAL:HG22	2.29	0.48
1:u:98:ASN:ND2	1:u:176:VAL:HG22	2.29	0.48
1:3:250:ARG:O	1:3:536:LYS:HG2	2.12	0.48
1:D:98:ASN:ND2	1:D:176:VAL:HG22	2.29	0.48
1:O:98:ASN:ND2	1:O:176:VAL:HG22	2.29	0.48
1:O:372:PRO:HG3	1:m:322:ASP:HB2	1.96	0.48
1:W:98:ASN:ND2	1:W:176:VAL:HG22	2.29	0.48
1:X:98:ASN:ND2	1:X:176:VAL:HG22	2.29	0.48
1:d:98:ASN:ND2	1:d:176:VAL:HG22	2.29	0.48
1:k:98:ASN:ND2	1:k:176:VAL:HG22	2.29	0.48
1:k:455:SER:OG	1:k:457:ASN:O	2.28	0.48
1:n:98:ASN:ND2	1:n:176:VAL:HG22	2.29	0.48
1:o:98:ASN:ND2	1:o:176:VAL:HG22	2.29	0.48
1:1:250:ARG:O	1:1:536:LYS:HG2	2.12	0.48
1:1:348:ASP:OD1	1:1:349:LEU:N	2.39	0.48
1:7:98:ASN:ND2	1:7:175:ASP:OD1	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:98:ASN:ND2	1:C:176:VAL:HG22	2.29	0.48
1:G:98:ASN:ND2	1:G:176:VAL:HG22	2.29	0.48
1:M:322:ASP:HB2	1:b:372:PRO:HG3	1.96	0.48
1:c:322:ASP:HB2	1:p:372:PRO:HG3	1.96	0.48
1:f:322:ASP:HB2	1:g:372:PRO:HG3	1.95	0.48
1:f:372:PRO:HG3	1:h:322:ASP:HB2	1.96	0.48
1:l:98:ASN:ND2	1:l:175:ASP:OD1	2.39	0.48
1:l:98:ASN:ND2	1:l:176:VAL:HG22	2.29	0.48
1:4:98:ASN:ND2	1:4:176:VAL:HG22	2.29	0.48
1:B:98:ASN:ND2	1:B:176:VAL:HG22	2.29	0.48
1:B:348:ASP:OD1	1:B:349:LEU:N	2.39	0.48
1:C:399:PHE:CG	1:C:400:PRO:HD2	2.49	0.48
1:C:412:GLU:N	1:C:412:GLU:OE1	2.47	0.48
1:D:455:SER:OG	1:D:457:ASN:O	2.28	0.48
1:E:412:GLU:OE1	1:E:412:GLU:N	2.47	0.48
1:H:98:ASN:ND2	1:H:176:VAL:HG22	2.29	0.48
1:R:291:THR:HG22	1:S:336:GLY:O	2.14	0.48
1:W:372:PRO:HG3	1:Y:322:ASP:HB2	1.95	0.48
1:Y:98:ASN:ND2	1:Y:175:ASP:OD1	2.39	0.48
1:f:98:ASN:ND2	1:f:175:ASP:OD1	2.39	0.48
1:g:98:ASN:ND2	1:g:176:VAL:HG22	2.29	0.48
1:l:412:GLU:OE1	1:l:412:GLU:N	2.47	0.48
1:p:399:PHE:CG	1:p:400:PRO:HD2	2.49	0.48
1:q:291:THR:HG22	1:r:336:GLY:O	2.14	0.48
1:A:372:PRO:HG3	1:G:322:ASP:HB2	1.96	0.48
1:E:98:ASN:ND2	1:E:176:VAL:HG22	2.29	0.48
1:K:98:ASN:ND2	1:K:176:VAL:HG22	2.29	0.48
1:O:98:ASN:ND2	1:O:175:ASP:OD1	2.39	0.48
1:O:399:PHE:CG	1:O:400:PRO:HD2	2.49	0.48
1:O:412:GLU:OE1	1:O:412:GLU:N	2.47	0.48
1:V:399:PHE:CG	1:V:400:PRO:HD2	2.49	0.48
1:b:98:ASN:ND2	1:b:175:ASP:OD1	2.39	0.48
1:b:399:PHE:CG	1:b:400:PRO:HD2	2.49	0.48
1:c:302:ALA:HB3	1:c:314:SER:HB2	1.96	0.48
1:f:98:ASN:ND2	1:f:176:VAL:HG22	2.29	0.48
1:f:399:PHE:CG	1:f:400:PRO:HD2	2.49	0.48
1:g:399:PHE:CG	1:g:400:PRO:HD2	2.49	0.48
1:g:412:GLU:OE1	1:g:412:GLU:N	2.47	0.48
1:h:302:ALA:HB3	1:h:314:SER:HB2	1.96	0.48
1:h:399:PHE:CG	1:h:400:PRO:HD2	2.49	0.48
1:l:399:PHE:CG	1:l:400:PRO:HD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:302:ALA:HB3	1:o:314:SER:HB2	1.96	0.48
1:w:98:ASN:ND2	1:w:176:VAL:HG22	2.29	0.48
1:w:412:GLU:OE1	1:w:412:GLU:N	2.47	0.48
1:2:399:PHE:CG	1:2:400:PRO:HD2	2.49	0.48
1:5:98:ASN:ND2	1:5:176:VAL:HG22	2.29	0.48
1:8:412:GLU:N	1:8:412:GLU:OE1	2.47	0.48
1:C:302:ALA:HB3	1:C:314:SER:HB2	1.96	0.48
1:H:399:PHE:CG	1:H:400:PRO:HD2	2.49	0.48
1:J:302:ALA:HB3	1:J:314:SER:HB2	1.96	0.48
1:J:399:PHE:CG	1:J:400:PRO:HD2	2.49	0.48
1:M:302:ALA:HB3	1:M:314:SER:HB2	1.96	0.48
1:M:399:PHE:CG	1:M:400:PRO:HD2	2.49	0.48
1:R:412:GLU:OE1	1:R:412:GLU:N	2.47	0.48
1:S:412:GLU:N	1:S:412:GLU:OE1	2.47	0.48
1:W:399:PHE:CG	1:W:400:PRO:HD2	2.49	0.48
1:Z:412:GLU:OE1	1:Z:412:GLU:N	2.47	0.48
1:b:98:ASN:ND2	1:b:176:VAL:HG22	2.29	0.48
1:d:302:ALA:HB3	1:d:314:SER:HB2	1.96	0.48
1:e:302:ALA:HB3	1:e:314:SER:HB2	1.96	0.48
1:p:98:ASN:ND2	1:p:176:VAL:HG22	2.29	0.48
1:q:412:GLU:N	1:q:412:GLU:OE1	2.47	0.48
1:t:322:ASP:HB2	1:v:372:PRO:HG3	1.96	0.48
1:1:98:ASN:ND2	1:1:176:VAL:HG22	2.29	0.48
1:1:291:THR:HG22	1:2:336:GLY:O	2.14	0.48
1:6:372:PRO:HG3	1:7:322:ASP:HB2	1.96	0.48
1:B:291:THR:HG22	1:J:336:GLY:O	2.14	0.48
1:C:372:PRO:HG3	1:b:322:ASP:HB2	1.96	0.48
1:D:412:GLU:OE1	1:D:412:GLU:N	2.47	0.48
1:H:412:GLU:OE1	1:H:412:GLU:N	2.47	0.48
1:J:412:GLU:OE1	1:J:412:GLU:N	2.47	0.48
1:L:302:ALA:HB3	1:L:314:SER:HB2	1.96	0.48
1:L:412:GLU:OE1	1:L:412:GLU:N	2.47	0.48
1:R:98:ASN:ND2	1:R:176:VAL:HG22	2.29	0.48
1:R:399:PHE:CG	1:R:400:PRO:HD2	2.49	0.48
1:U:412:GLU:OE1	1:U:412:GLU:N	2.47	0.48
1:V:98:ASN:ND2	1:V:176:VAL:HG22	2.29	0.48
1:V:372:PRO:HG3	1:e:322:ASP:HB2	1.96	0.48
1:X:302:ALA:HB3	1:X:314:SER:HB2	1.96	0.48
1:g:302:ALA:HB3	1:g:314:SER:HB2	1.96	0.48
1:k:412:GLU:OE1	1:k:412:GLU:N	2.47	0.48
1:m:455:SER:OG	1:m:457:ASN:O	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:302:ALA:HB3	1:n:314:SER:HB2	1.96	0.48
1:r:412:GLU:OE1	1:r:412:GLU:N	2.47	0.48
1:y:98:ASN:ND2	1:y:176:VAL:HG22	2.29	0.48
1:2:302:ALA:HB3	1:2:314:SER:HB2	1.96	0.48
1:5:399:PHE:CG	1:5:400:PRO:HD2	2.49	0.48
1:6:399:PHE:CG	1:6:400:PRO:HD2	2.49	0.48
1:K:322:ASP:HB2	1:8:372:PRO:HG3	1.96	0.47
1:M:98:ASN:ND2	1:M:176:VAL:HG22	2.29	0.47
1:O:322:ASP:HB2	1:n:372:PRO:HG3	1.96	0.47
1:P:412:GLU:OE1	1:P:412:GLU:N	2.47	0.47
1:Q:98:ASN:ND2	1:Q:176:VAL:HG22	2.29	0.47
1:T:455:SER:OG	1:T:457:ASN:O	2.28	0.47
1:V:412:GLU:N	1:V:412:GLU:OE1	2.47	0.47
1:W:302:ALA:HB3	1:W:314:SER:HB2	1.96	0.47
1:d:372:PRO:HG3	1:l:322:ASP:HB2	1.96	0.47
1:g:322:ASP:HB2	1:h:372:PRO:HG3	1.96	0.47
1:p:412:GLU:OE1	1:p:412:GLU:N	2.47	0.47
1:q:98:ASN:ND2	1:q:176:VAL:HG22	2.29	0.47
1:s:412:GLU:OE1	1:s:412:GLU:N	2.47	0.47
1:t:412:GLU:OE1	1:t:412:GLU:N	2.47	0.47
1:u:412:GLU:OE1	1:u:412:GLU:N	2.47	0.47
1:z:302:ALA:HB3	1:z:314:SER:HB2	1.96	0.47
1:z:412:GLU:OE1	1:z:412:GLU:N	2.47	0.47
1:1:399:PHE:CG	1:1:400:PRO:HD2	2.49	0.47
1:3:399:PHE:CG	1:3:400:PRO:HD2	2.49	0.47
1:5:412:GLU:OE1	1:5:412:GLU:N	2.47	0.47
1:6:302:ALA:HB3	1:6:314:SER:HB2	1.96	0.47
1:8:302:ALA:HB3	1:8:314:SER:HB2	1.96	0.47
1:B:399:PHE:CG	1:B:400:PRO:HD2	2.49	0.47
1:D:302:ALA:HB3	1:D:314:SER:HB2	1.96	0.47
1:D:399:PHE:CG	1:D:400:PRO:HD2	2.49	0.47
1:E:399:PHE:CG	1:E:400:PRO:HD2	2.49	0.47
1:F:98:ASN:ND2	1:F:176:VAL:HG22	2.29	0.47
1:F:412:GLU:N	1:F:412:GLU:OE1	2.47	0.47
1:G:412:GLU:OE1	1:G:412:GLU:N	2.47	0.47
1:I:412:GLU:OE1	1:I:412:GLU:N	2.47	0.47
1:V:322:ASP:HB2	1:X:372:PRO:HG3	1.96	0.47
1:Z:98:ASN:ND2	1:Z:175:ASP:OD1	2.39	0.47
1:Z:302:ALA:HB3	1:Z:314:SER:HB2	1.96	0.47
1:b:302:ALA:HB3	1:b:314:SER:HB2	1.96	0.47
1:c:412:GLU:N	1:c:412:GLU:OE1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:302:ALA:HB3	1:f:314:SER:HB2	1.96	0.47
1:h:98:ASN:ND2	1:h:176:VAL:HG22	2.29	0.47
1:i:399:PHE:CG	1:i:400:PRO:HD2	2.49	0.47
1:j:412:GLU:OE1	1:j:412:GLU:N	2.47	0.47
1:k:302:ALA:HB3	1:k:314:SER:HB2	1.96	0.47
1:m:399:PHE:CG	1:m:400:PRO:HD2	2.49	0.47
1:q:399:PHE:CG	1:q:400:PRO:HD2	2.49	0.47
1:r:302:ALA:HB3	1:r:314:SER:HB2	1.96	0.47
1:w:322:ASP:HB2	1:y:372:PRO:HG3	1.96	0.47
1:w:399:PHE:CG	1:w:400:PRO:HD2	2.49	0.47
1:x:98:ASN:ND2	1:x:176:VAL:HG22	2.29	0.47
1:2:412:GLU:OE1	1:2:412:GLU:N	2.47	0.47
1:3:322:ASP:HB2	1:4:372:PRO:HG3	1.95	0.47
1:G:399:PHE:CG	1:G:400:PRO:HD2	2.49	0.47
1:N:302:ALA:HB3	1:N:314:SER:HB2	1.96	0.47
1:N:399:PHE:CG	1:N:400:PRO:HD2	2.49	0.47
1:S:302:ALA:HB3	1:S:314:SER:HB2	1.96	0.47
1:T:302:ALA:HB3	1:T:314:SER:HB2	1.96	0.47
1:T:372:PRO:HG3	1:d:322:ASP:HB2	1.96	0.47
1:T:399:PHE:CG	1:T:400:PRO:HD2	2.49	0.47
1:T:412:GLU:OE1	1:T:412:GLU:N	2.47	0.47
1:Z:399:PHE:CG	1:Z:400:PRO:HD2	2.49	0.47
1:a:399:PHE:CG	1:a:400:PRO:HD2	2.49	0.47
1:c:98:ASN:ND2	1:c:176:VAL:HG22	2.29	0.47
1:e:98:ASN:ND2	1:e:176:VAL:HG22	2.29	0.47
1:i:302:ALA:HB3	1:i:314:SER:HB2	1.96	0.47
1:i:322:ASP:HB2	1:k:372:PRO:HG3	1.96	0.47
1:m:372:PRO:HG3	1:n:322:ASP:HB2	1.96	0.47
1:m:412:GLU:OE1	1:m:412:GLU:N	2.47	0.47
1:o:412:GLU:OE1	1:o:412:GLU:N	2.47	0.47
1:w:302:ALA:HB3	1:w:314:SER:HB2	1.96	0.47
1:y:412:GLU:N	1:y:412:GLU:OE1	2.47	0.47
1:z:98:ASN:ND2	1:z:176:VAL:HG22	2.29	0.47
1:2:274:HIS:CD2	1:2:387:GLN:HB3	2.50	0.47
1:8:98:ASN:ND2	1:8:175:ASP:OD1	2.39	0.47
1:8:399:PHE:CG	1:8:400:PRO:HD2	2.49	0.47
1:C:270:TYR:O	1:b:350:GLU:HG2	2.15	0.47
1:H:322:ASP:HB2	1:Y:372:PRO:HG3	1.96	0.47
1:I:302:ALA:HB3	1:I:314:SER:HB2	1.96	0.47
1:J:274:HIS:CD2	1:J:387:GLN:HB3	2.50	0.47
1:L:399:PHE:CG	1:L:400:PRO:HD2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:274:HIS:CD2	1:N:387:GLN:HB3	2.50	0.47
1:R:302:ALA:HB3	1:R:314:SER:HB2	1.96	0.47
1:Y:399:PHE:CG	1:Y:400:PRO:HD2	2.49	0.47
1:Y:514:LYS:O	1:4:73:ARG:HD2	2.15	0.47
1:Z:270:TYR:O	1:4:350:GLU:HG2	2.14	0.47
1:e:412:GLU:OE1	1:e:412:GLU:N	2.47	0.47
1:k:399:PHE:CG	1:k:400:PRO:HD2	2.49	0.47
1:m:302:ALA:HB3	1:m:314:SER:HB2	1.96	0.47
1:t:399:PHE:CG	1:t:400:PRO:HD2	2.49	0.47
1:u:302:ALA:HB3	1:u:314:SER:HB2	1.96	0.47
1:3:98:ASN:ND2	1:3:176:VAL:HG22	2.29	0.47
1:5:322:ASP:HB2	1:7:372:PRO:HG3	1.96	0.47
1:7:399:PHE:CG	1:7:400:PRO:HD2	2.49	0.47
1:B:322:ASP:HB2	1:L:372:PRO:HG3	1.97	0.47
1:D:372:PRO:HG3	1:N:322:ASP:HB2	1.96	0.47
1:E:302:ALA:HB3	1:E:314:SER:HB2	1.96	0.47
1:E:322:ASP:HB2	1:F:372:PRO:HG3	1.96	0.47
1:G:274:HIS:CD2	1:G:387:GLN:HB3	2.50	0.47
1:H:120:ARG:HH21	1:H:480:GLU:HG2	1.80	0.47
1:H:372:PRO:HG3	1:W:322:ASP:HB2	1.96	0.47
1:M:336:GLY:O	1:b:291:THR:HG22	2.15	0.47
1:R:322:ASP:HB2	1:U:372:PRO:HG3	1.97	0.47
1:T:291:THR:HG22	1:d:336:GLY:O	2.15	0.47
1:V:336:GLY:O	1:X:291:THR:HG22	2.15	0.47
1:X:412:GLU:OE1	1:X:412:GLU:N	2.47	0.47
1:b:412:GLU:OE1	1:b:412:GLU:N	2.47	0.47
1:c:372:PRO:HG3	1:o:322:ASP:HB2	1.96	0.47
1:d:399:PHE:CG	1:d:400:PRO:HD2	2.49	0.47
1:f:274:HIS:CD2	1:f:387:GLN:HB3	2.50	0.47
1:f:412:GLU:N	1:f:412:GLU:OE1	2.47	0.47
1:i:274:HIS:CD2	1:i:387:GLN:HB3	2.50	0.47
1:n:399:PHE:CG	1:n:400:PRO:HD2	2.49	0.47
1:q:302:ALA:HB3	1:q:314:SER:HB2	1.96	0.47
1:z:399:PHE:CG	1:z:400:PRO:HD2	2.49	0.47
1:3:350:GLU:HG2	1:4:270:TYR:O	2.14	0.47
1:7:274:HIS:CD2	1:7:387:GLN:HB3	2.50	0.47
1:A:302:ALA:HB3	1:A:314:SER:HB2	1.96	0.47
1:E:372:PRO:HG3	1:Q:322:ASP:HB2	1.96	0.47
1:F:322:ASP:HB2	1:Q:372:PRO:HG3	1.96	0.47
1:F:399:PHE:CG	1:F:400:PRO:HD2	2.49	0.47
1:G:302:ALA:HB3	1:G:314:SER:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:98:ASN:ND2	1:L:176:VAL:HG22	2.29	0.47
1:N:372:PRO:HG3	1:P:322:ASP:HB2	1.96	0.47
1:P:120:ARG:HH21	1:P:480:GLU:HG2	1.80	0.47
1:T:98:ASN:ND2	1:T:176:VAL:HG22	2.29	0.47
1:U:399:PHE:CG	1:U:400:PRO:HD2	2.49	0.47
1:X:322:ASP:HB2	1:e:372:PRO:HG3	1.95	0.47
1:Y:274:HIS:CD2	1:Y:387:GLN:HB3	2.50	0.47
1:Z:322:ASP:HB2	1:3:372:PRO:HG3	1.96	0.47
1:a:98:ASN:ND2	1:a:176:VAL:HG22	2.29	0.47
1:a:372:PRO:HG3	1:8:322:ASP:HB2	1.96	0.47
1:b:274:HIS:CD2	1:b:387:GLN:HB3	2.50	0.47
1:c:336:GLY:O	1:p:291:THR:HG22	2.15	0.47
1:m:98:ASN:ND2	1:m:176:VAL:HG22	2.29	0.47
1:m:291:THR:HG22	1:n:336:GLY:O	2.15	0.47
1:r:399:PHE:CG	1:r:400:PRO:HD2	2.49	0.47
1:t:274:HIS:CD2	1:t:387:GLN:HB3	2.50	0.47
1:t:302:ALA:HB3	1:t:314:SER:HB2	1.96	0.47
1:w:372:PRO:HG3	1:x:322:ASP:HB2	1.96	0.47
1:y:399:PHE:CG	1:y:400:PRO:HD2	2.49	0.47
1:5:372:PRO:HG3	1:6:322:ASP:HB2	1.96	0.47
1:6:274:HIS:CD2	1:6:387:GLN:HB3	2.50	0.47
1:8:274:HIS:CD2	1:8:387:GLN:HB3	2.50	0.47
1:A:291:THR:HG22	1:G:336:GLY:O	2.15	0.47
1:A:412:GLU:OE1	1:A:412:GLU:N	2.47	0.47
1:B:336:GLY:O	1:L:291:THR:HG22	2.15	0.47
1:F:274:HIS:CD2	1:F:387:GLN:HB3	2.50	0.47
1:I:399:PHE:CG	1:I:400:PRO:HD2	2.49	0.47
1:K:274:HIS:CD2	1:K:387:GLN:HB3	2.50	0.47
1:M:412:GLU:OE1	1:M:412:GLU:N	2.47	0.47
1:Q:120:ARG:HH21	1:Q:480:GLU:HG2	1.80	0.47
1:S:120:ARG:HH21	1:S:480:GLU:HG2	1.80	0.47
1:S:274:HIS:CD2	1:S:387:GLN:HB3	2.50	0.47
1:S:399:PHE:CG	1:S:400:PRO:HD2	2.49	0.47
1:T:336:GLY:O	1:l:291:THR:HG22	2.14	0.47
1:V:274:HIS:CD2	1:V:387:GLN:HB3	2.50	0.47
1:W:274:HIS:CD2	1:W:387:GLN:HB3	2.50	0.47
1:Z:98:ASN:ND2	1:Z:176:VAL:HG22	2.29	0.47
1:Z:274:HIS:CD2	1:Z:387:GLN:HB3	2.50	0.47
1:f:291:THR:HG22	1:h:336:GLY:O	2.15	0.47
1:h:412:GLU:OE1	1:h:412:GLU:N	2.47	0.47
1:i:91:SER:HB2	1:k:262:LYS:HZ1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:372:PRO:HG3	1:j:322:ASP:HB2	1.96	0.47
1:n:274:HIS:CD2	1:n:387:GLN:HB3	2.50	0.47
1:o:372:PRO:HG3	1:p:322:ASP:HB2	1.96	0.47
1:p:274:HIS:CD2	1:p:387:GLN:HB3	2.50	0.47
1:p:302:ALA:HB3	1:p:314:SER:HB2	1.96	0.47
1:q:322:ASP:HB2	1:s:372:PRO:HG3	1.97	0.47
1:r:120:ARG:HH21	1:r:480:GLU:HG2	1.80	0.47
1:s:399:PHE:CG	1:s:400:PRO:HD2	2.49	0.47
1:t:336:GLY:O	1:v:291:THR:HG22	2.15	0.47
1:u:399:PHE:CG	1:u:400:PRO:HD2	2.49	0.47
1:v:302:ALA:HB3	1:v:314:SER:HB2	1.96	0.47
1:w:291:THR:HG22	1:x:336:GLY:O	2.14	0.47
1:y:274:HIS:CD2	1:y:387:GLN:HB3	2.50	0.47
1:z:291:THR:HG22	1:1:336:GLY:O	2.15	0.47
1:z:372:PRO:HG3	1:1:322:ASP:HB2	1.97	0.47
1:4:274:HIS:CD2	1:4:387:GLN:HB3	2.50	0.47
1:5:120:ARG:HH21	1:5:480:GLU:HG2	1.80	0.47
1:8:98:ASN:ND2	1:8:176:VAL:HG22	2.29	0.47
1:A:322:ASP:HB2	1:I:372:PRO:HG3	1.96	0.47
1:H:291:THR:HG22	1:W:336:GLY:O	2.15	0.47
1:H:336:GLY:O	1:Y:291:THR:HG22	2.15	0.47
1:K:372:PRO:HG3	1:a:322:ASP:HB2	1.96	0.47
1:U:302:ALA:HB3	1:U:314:SER:HB2	1.96	0.47
1:V:291:THR:HG22	1:e:336:GLY:O	2.15	0.47
1:X:120:ARG:HH21	1:X:480:GLU:HG2	1.80	0.47
1:a:120:ARG:HH21	1:a:480:GLU:HG2	1.80	0.47
1:a:412:GLU:N	1:a:412:GLU:OE1	2.47	0.47
1:c:274:HIS:CD2	1:c:387:GLN:HB3	2.50	0.47
1:d:274:HIS:CD2	1:d:387:GLN:HB3	2.50	0.47
1:d:412:GLU:OE1	1:d:412:GLU:N	2.47	0.47
1:j:98:ASN:ND2	1:j:175:ASP:OD1	2.39	0.47
1:j:120:ARG:HH21	1:j:480:GLU:HG2	1.80	0.47
1:l:274:HIS:CD2	1:l:387:GLN:HB3	2.50	0.47
1:o:120:ARG:HH21	1:o:480:GLU:HG2	1.80	0.47
1:o:399:PHE:CG	1:o:400:PRO:HD2	2.49	0.47
1:r:274:HIS:CD2	1:r:387:GLN:HB3	2.50	0.47
1:x:372:PRO:HG3	1:y:322:ASP:HB2	1.96	0.47
1:1:274:HIS:CD2	1:1:387:GLN:HB3	2.50	0.47
1:3:120:ARG:HH21	1:3:480:GLU:HG2	1.80	0.47
1:4:399:PHE:CG	1:4:400:PRO:HD2	2.49	0.47
1:5:302:ALA:HB3	1:5:314:SER:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:98:ASN:ND2	1:E:175:ASP:OD1	2.39	0.47
1:E:291:THR:HG22	1:Q:336:GLY:O	2.15	0.47
1:J:291:THR:HG22	1:L:336:GLY:O	2.15	0.47
1:K:336:GLY:O	1:8:291:THR:HG22	2.14	0.47
1:O:274:HIS:CD2	1:O:387:GLN:HB3	2.50	0.47
1:O:291:THR:HG22	1:m:336:GLY:O	2.15	0.47
1:Q:399:PHE:CG	1:Q:400:PRO:HD2	2.49	0.47
1:Q:412:GLU:OE1	1:Q:412:GLU:N	2.47	0.47
1:S:372:PRO:HG3	1:U:322:ASP:HB2	1.96	0.47
1:W:120:ARG:HH21	1:W:480:GLU:HG2	1.80	0.47
1:X:399:PHE:CG	1:X:400:PRO:HD2	2.49	0.47
1:Z:336:GLY:O	1:3:291:THR:HG22	2.15	0.47
1:e:274:HIS:CD2	1:e:387:GLN:HB3	2.50	0.47
1:j:302:ALA:HB3	1:j:314:SER:HB2	1.96	0.47
1:m:120:ARG:HH21	1:m:480:GLU:HG2	1.80	0.47
1:n:412:GLU:N	1:n:412:GLU:OE1	2.47	0.47
1:o:291:THR:HG22	1:p:336:GLY:O	2.15	0.47
1:s:302:ALA:HB3	1:s:314:SER:HB2	1.96	0.47
1:v:412:GLU:N	1:v:412:GLU:OE1	2.47	0.47
1:x:120:ARG:HH21	1:x:480:GLU:HG2	1.80	0.47
1:5:291:THR:HG22	1:6:336:GLY:O	2.15	0.47
1:6:120:ARG:HH21	1:6:480:GLU:HG2	1.80	0.47
1:6:412:GLU:OE1	1:6:412:GLU:N	2.47	0.47
1:B:274:HIS:CD2	1:B:387:GLN:HB3	2.50	0.47
1:D:274:HIS:CD2	1:D:387:GLN:HB3	2.50	0.47
1:G:120:ARG:HH21	1:G:480:GLU:HG2	1.80	0.47
1:H:274:HIS:CD2	1:H:387:GLN:HB3	2.50	0.47
1:H:302:ALA:HB3	1:H:314:SER:HB2	1.96	0.47
1:K:291:THR:HG22	1:a:336:GLY:O	2.15	0.47
1:L:274:HIS:CD2	1:L:387:GLN:HB3	2.50	0.47
1:L:514:LYS:O	1:b:73:ARG:HD2	2.15	0.47
1:M:120:ARG:HH21	1:M:480:GLU:HG2	1.80	0.47
1:N:412:GLU:N	1:N:412:GLU:OE1	2.47	0.47
1:P:98:ASN:ND2	1:P:175:ASP:OD1	2.39	0.47
1:P:274:HIS:CD2	1:P:387:GLN:HB3	2.50	0.47
1:P:302:ALA:HB3	1:P:314:SER:HB2	1.96	0.47
1:P:399:PHE:CG	1:P:400:PRO:HD2	2.49	0.47
1:T:120:ARG:HH21	1:T:480:GLU:HG2	1.80	0.47
1:V:302:ALA:HB3	1:V:314:SER:HB2	1.96	0.47
1:W:291:THR:HG22	1:Y:336:GLY:O	2.15	0.47
1:W:412:GLU:OE1	1:W:412:GLU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:412:GLU:OE1	1:Y:412:GLU:N	2.47	0.47
1:Z:120:ARG:HH21	1:Z:480:GLU:HG2	1.80	0.47
1:a:291:THR:HG22	1:8:336:GLY:O	2.15	0.47
1:h:127:HIS:CD2	1:h:238:THR:HG22	2.47	0.47
1:j:274:HIS:CD2	1:j:387:GLN:HB3	2.50	0.47
1:j:399:PHE:CG	1:j:400:PRO:HD2	2.49	0.47
1:o:274:HIS:CD2	1:o:387:GLN:HB3	2.50	0.47
1:x:399:PHE:CG	1:x:400:PRO:HD2	2.49	0.47
1:x:412:GLU:OE1	1:x:412:GLU:N	2.47	0.47
1:z:336:GLY:O	1:2:291:THR:HG22	2.15	0.47
1:3:412:GLU:N	1:3:412:GLU:OE1	2.47	0.47
1:4:412:GLU:OE1	1:4:412:GLU:N	2.47	0.47
1:5:274:HIS:CD2	1:5:387:GLN:HB3	2.50	0.47
1:5:336:GLY:O	1:7:291:THR:HG22	2.15	0.47
1:E:274:HIS:CD2	1:E:387:GLN:HB3	2.50	0.46
1:K:179:GLU:OE2	1:K:411:ARG:NH1	2.46	0.46
1:T:274:HIS:CD2	1:T:387:GLN:HB3	2.50	0.46
1:X:274:HIS:CD2	1:X:387:GLN:HB3	2.50	0.46
1:X:336:GLY:O	1:e:291:THR:HG22	2.15	0.46
1:c:291:THR:HG22	1:o:336:GLY:O	2.15	0.46
1:f:336:GLY:O	1:g:291:THR:HG22	2.15	0.46
1:g:350:GLU:HG2	1:h:270:TYR:O	2.16	0.46
1:h:120:ARG:HH21	1:h:480:GLU:HG2	1.80	0.46
1:i:412:GLU:N	1:i:412:GLU:OE1	2.47	0.46
1:k:274:HIS:CD2	1:k:387:GLN:HB3	2.50	0.46
1:l:120:ARG:HH21	1:l:480:GLU:HG2	1.80	0.46
1:m:274:HIS:CD2	1:m:387:GLN:HB3	2.50	0.46
1:n:120:ARG:HH21	1:n:480:GLU:HG2	1.80	0.46
1:o:270:TYR:O	1:p:350:GLU:HG2	2.16	0.46
1:t:120:ARG:HH21	1:t:480:GLU:HG2	1.80	0.46
1:w:98:ASN:ND2	1:w:175:ASP:OD1	2.39	0.46
1:w:336:GLY:O	1:y:291:THR:HG22	2.15	0.46
1:z:274:HIS:CD2	1:z:387:GLN:HB3	2.50	0.46
1:6:291:THR:HG22	1:7:336:GLY:O	2.15	0.46
1:7:412:GLU:OE1	1:7:412:GLU:N	2.47	0.46
1:C:336:GLY:O	1:M:291:THR:HG22	2.15	0.46
1:H:73:ARG:HD2	1:Z:514:LYS:O	2.15	0.46
1:K:399:PHE:CG	1:K:400:PRO:HD2	2.49	0.46
1:K:412:GLU:N	1:K:412:GLU:OE1	2.47	0.46
1:O:336:GLY:O	1:n:291:THR:HG22	2.15	0.46
1:Q:274:HIS:CD2	1:Q:387:GLN:HB3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:350:GLU:HG2	1:X:270:TYR:O	2.16	0.46
1:d:120:ARG:HH21	1:d:480:GLU:HG2	1.80	0.46
1:e:455:SER:OG	1:e:457:ASN:O	2.28	0.46
1:f:73:ARG:HD2	1:z:514:LYS:O	2.16	0.46
1:j:372:PRO:HG3	1:k:322:ASP:HB2	1.96	0.46
1:r:372:PRO:HG3	1:s:322:ASP:HB2	1.96	0.46
1:w:274:HIS:CD2	1:w:387:GLN:HB3	2.50	0.46
1:1:120:ARG:HH21	1:1:480:GLU:HG2	1.80	0.46
1:3:336:GLY:O	1:4:291:THR:HG22	2.15	0.46
1:F:455:SER:OG	1:F:457:ASN:O	2.28	0.46
1:N:291:THR:HG22	1:P:336:GLY:O	2.15	0.46
1:O:120:ARG:HH21	1:O:480:GLU:HG2	1.80	0.46
1:R:336:GLY:O	1:U:291:THR:HG22	2.15	0.46
1:V:120:ARG:HH21	1:V:480:GLU:HG2	1.80	0.46
1:Y:120:ARG:HH21	1:Y:480:GLU:HG2	1.80	0.46
1:a:274:HIS:CD2	1:a:387:GLN:HB3	2.50	0.46
1:d:137:GLN:NE2	1:d:463:LEU:HD11	2.31	0.46
1:d:291:THR:HG22	1:l:336:GLY:O	2.15	0.46
1:n:137:GLN:NE2	1:n:463:LEU:HD11	2.31	0.46
1:2:120:ARG:HH21	1:2:480:GLU:HG2	1.80	0.46
1:2:179:GLU:OE2	1:2:411:ARG:NH1	2.46	0.46
1:4:98:ASN:ND2	1:4:175:ASP:OD1	2.39	0.46
1:4:120:ARG:HH21	1:4:480:GLU:HG2	1.80	0.46
1:5:73:ARG:HD2	1:8:514:LYS:O	2.15	0.46
1:7:120:ARG:HH21	1:7:480:GLU:HG2	1.80	0.46
1:8:120:ARG:HH21	1:8:480:GLU:HG2	1.80	0.46
1:A:120:ARG:HH21	1:A:480:GLU:HG2	1.80	0.46
1:D:322:ASP:HB2	1:P:372:PRO:HG3	1.96	0.46
1:G:291:THR:HG22	1:I:336:GLY:O	2.15	0.46
1:G:372:PRO:HG3	1:I:322:ASP:HB2	1.96	0.46
1:H:137:GLN:NE2	1:H:463:LEU:HD11	2.31	0.46
1:I:274:HIS:CD2	1:I:387:GLN:HB3	2.50	0.46
1:J:120:ARG:HH21	1:J:480:GLU:HG2	1.80	0.46
1:K:127:HIS:CD2	1:K:238:THR:HG22	2.47	0.46
1:K:455:SER:OG	1:K:457:ASN:O	2.28	0.46
1:M:274:HIS:CD2	1:M:387:GLN:HB3	2.50	0.46
1:N:137:GLN:NE2	1:N:463:LEU:HD11	2.31	0.46
1:Q:302:ALA:HB3	1:Q:314:SER:HB2	1.96	0.46
1:R:274:HIS:CD2	1:R:387:GLN:HB3	2.50	0.46
1:U:274:HIS:CD2	1:U:387:GLN:HB3	2.50	0.46
1:U:514:LYS:O	1:e:73:ARG:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:302:ALA:HB3	1:Y:314:SER:HB2	1.96	0.46
1:Y:455:SER:OG	1:Y:457:ASN:O	2.28	0.46
1:Z:350:GLU:HG2	1:3:270:TYR:O	2.16	0.46
1:a:302:ALA:HB3	1:a:314:SER:HB2	1.96	0.46
1:c:137:GLN:NE2	1:c:463:LEU:HD11	2.31	0.46
1:c:399:PHE:CG	1:c:400:PRO:HD2	2.49	0.46
1:e:399:PHE:CG	1:e:400:PRO:HD2	2.49	0.46
1:i:291:THR:HG22	1:j:336:GLY:O	2.15	0.46
1:i:350:GLU:HG2	1:k:270:TYR:O	2.15	0.46
1:o:137:GLN:NE2	1:o:463:LEU:HD11	2.31	0.46
1:p:120:ARG:HH21	1:p:480:GLU:HG2	1.80	0.46
1:q:274:HIS:CD2	1:q:387:GLN:HB3	2.50	0.46
1:u:372:PRO:HG3	1:v:322:ASP:HB2	1.96	0.46
1:x:274:HIS:CD2	1:x:387:GLN:HB3	2.50	0.46
1:z:262:LYS:HZ1	1:1:91:SER:HB2	1.80	0.46
1:4:179:GLU:OE2	1:4:411:ARG:NH1	2.46	0.46
1:5:137:GLN:NE2	1:5:463:LEU:HD11	2.31	0.46
1:A:270:TYR:O	1:G:350:GLU:HG2	2.16	0.46
1:A:399:PHE:CG	1:A:400:PRO:HD2	2.49	0.46
1:B:40:THR:OG1	1:B:131:TYR:HB2	2.16	0.46
1:B:120:ARG:HH21	1:B:480:GLU:HG2	1.80	0.46
1:C:274:HIS:CD2	1:C:387:GLN:HB3	2.50	0.46
1:D:270:TYR:O	1:N:350:GLU:HG2	2.16	0.46
1:J:179:GLU:OE2	1:J:411:ARG:NH1	2.46	0.46
1:K:98:ASN:ND2	1:K:175:ASP:OD1	2.39	0.46
1:K:120:ARG:HH21	1:K:480:GLU:HG2	1.80	0.46
1:O:302:ALA:HB3	1:O:314:SER:HB2	1.96	0.46
1:R:137:GLN:NE2	1:R:463:LEU:HD11	2.31	0.46
1:T:121:PHE:HA	1:T:478:GLU:O	2.16	0.46
1:U:40:THR:OG1	1:U:131:TYR:HB2	2.16	0.46
1:X:137:GLN:NE2	1:X:463:LEU:HD11	2.31	0.46
1:g:121:PHE:HA	1:g:478:GLU:O	2.16	0.46
1:h:274:HIS:CD2	1:h:387:GLN:HB3	2.50	0.46
1:i:137:GLN:NE2	1:i:463:LEU:HD11	2.31	0.46
1:l:121:PHE:HA	1:l:478:GLU:O	2.16	0.46
1:m:121:PHE:HA	1:m:478:GLU:O	2.16	0.46
1:s:274:HIS:CD2	1:s:387:GLN:HB3	2.50	0.46
1:t:291:THR:HG22	1:u:336:GLY:O	2.14	0.46
1:u:40:THR:OG1	1:u:131:TYR:HB2	2.16	0.46
1:u:274:HIS:CD2	1:u:387:GLN:HB3	2.50	0.46
1:v:120:ARG:HH21	1:v:480:GLU:HG2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:399:PHE:CG	1:v:400:PRO:HD2	2.49	0.46
1:x:302:ALA:HB3	1:x:314:SER:HB2	1.96	0.46
1:x:455:SER:OG	1:x:457:ASN:O	2.28	0.46
1:1:40:THR:OG1	1:1:131:TYR:HB2	2.16	0.46
1:1:121:PHE:HA	1:1:478:GLU:O	2.16	0.46
1:3:274:HIS:CD2	1:3:387:GLN:HB3	2.50	0.46
1:3:302:ALA:HB3	1:3:314:SER:HB2	1.96	0.46
1:4:127:HIS:CD2	1:4:238:THR:HG22	2.47	0.46
1:7:40:THR:OG1	1:7:131:TYR:HB2	2.16	0.46
1:7:302:ALA:HB3	1:7:314:SER:HB2	1.96	0.46
1:A:336:GLY:O	1:I:291:THR:HG22	2.15	0.46
1:A:350:GLU:HG2	1:I:270:TYR:O	2.16	0.46
1:B:91:SER:HB2	1:L:262:LYS:HZ1	1.80	0.46
1:B:121:PHE:HA	1:B:478:GLU:O	2.16	0.46
1:C:121:PHE:HA	1:C:478:GLU:O	2.16	0.46
1:D:40:THR:OG1	1:D:131:TYR:HB2	2.16	0.46
1:E:336:GLY:O	1:F:291:THR:HG22	2.16	0.46
1:F:121:PHE:HA	1:F:478:GLU:O	2.16	0.46
1:G:40:THR:OG1	1:G:131:TYR:HB2	2.16	0.46
1:I:40:THR:OG1	1:I:131:TYR:HB2	2.16	0.46
1:K:302:ALA:HB3	1:K:314:SER:HB2	1.96	0.46
1:L:120:ARG:HH21	1:L:480:GLU:HG2	1.80	0.46
1:N:121:PHE:HA	1:N:478:GLU:O	2.16	0.46
1:O:121:PHE:HA	1:O:478:GLU:O	2.16	0.46
1:Q:455:SER:OG	1:Q:457:ASN:O	2.28	0.46
1:R:120:ARG:HH21	1:R:480:GLU:HG2	1.80	0.46
1:V:270:TYR:O	1:e:350:GLU:HG2	2.16	0.46
1:Y:40:THR:OG1	1:Y:131:TYR:HB2	2.16	0.46
1:Y:137:GLN:NE2	1:Y:463:LEU:HD11	2.31	0.46
1:Z:137:GLN:NE2	1:Z:463:LEU:HD11	2.31	0.46
1:c:73:ARG:HD2	1:s:514:LYS:O	2.16	0.46
1:d:121:PHE:HA	1:d:478:GLU:O	2.16	0.46
1:e:137:GLN:NE2	1:e:463:LEU:HD11	2.31	0.46
1:i:121:PHE:HA	1:i:478:GLU:O	2.16	0.46
1:k:137:GLN:NE2	1:k:463:LEU:HD11	2.31	0.46
1:l:302:ALA:HB3	1:l:314:SER:HB2	1.96	0.46
1:n:121:PHE:HA	1:n:478:GLU:O	2.16	0.46
1:q:120:ARG:HH21	1:q:480:GLU:HG2	1.80	0.46
1:q:137:GLN:NE2	1:q:463:LEU:HD11	2.31	0.46
1:t:40:THR:OG1	1:t:131:TYR:HB2	2.16	0.46
1:t:350:GLU:HG2	1:v:270:TYR:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:372:PRO:HG3	1:u:322:ASP:HB2	1.96	0.46
1:y:121:PHE:HA	1:y:478:GLU:O	2.16	0.46
1:1:137:GLN:NE2	1:1:463:LEU:HD11	2.31	0.46
1:7:137:GLN:NE2	1:7:463:LEU:HD11	2.31	0.46
1:7:455:SER:OG	1:7:457:ASN:O	2.28	0.46
1:8:137:GLN:NE2	1:8:463:LEU:HD11	2.31	0.46
1:A:121:PHE:HA	1:A:478:GLU:O	2.16	0.46
1:A:274:HIS:CD2	1:A:387:GLN:HB3	2.50	0.46
1:B:137:GLN:NE2	1:B:463:LEU:HD11	2.31	0.46
1:C:137:GLN:NE2	1:C:463:LEU:HD11	2.31	0.46
1:D:137:GLN:NE2	1:D:463:LEU:HD11	2.31	0.46
1:D:336:GLY:O	1:P:291:THR:HG22	2.15	0.46
1:F:40:THR:OG1	1:F:131:TYR:HB2	2.16	0.46
1:G:85:LYS:HD2	1:G:311:ASP:HB2	1.98	0.46
1:H:270:TYR:O	1:W:350:GLU:HG2	2.16	0.46
1:J:40:THR:OG1	1:J:131:TYR:HB2	2.16	0.46
1:M:40:THR:OG1	1:M:131:TYR:HB2	2.16	0.46
1:S:137:GLN:NE2	1:S:463:LEU:HD11	2.31	0.46
1:X:40:THR:OG1	1:X:131:TYR:HB2	2.16	0.46
1:Y:121:PHE:HA	1:Y:478:GLU:O	2.16	0.46
1:a:121:PHE:HA	1:a:478:GLU:O	2.16	0.46
1:a:270:TYR:O	1:8:350:GLU:HG2	2.16	0.46
1:c:350:GLU:HG2	1:p:270:TYR:O	2.16	0.46
1:g:274:HIS:CD2	1:g:387:GLN:HB3	2.50	0.46
1:i:85:LYS:HD2	1:i:311:ASP:HB2	1.98	0.46
1:k:120:ARG:HH21	1:k:480:GLU:HG2	1.80	0.46
1:q:336:GLY:O	1:s:291:THR:HG22	2.15	0.46
1:r:137:GLN:NE2	1:r:463:LEU:HD11	2.31	0.46
1:s:40:THR:OG1	1:s:131:TYR:HB2	2.16	0.46
1:t:85:LYS:HD2	1:t:311:ASP:HB2	1.98	0.46
1:v:121:PHE:HA	1:v:478:GLU:O	2.16	0.46
1:v:274:HIS:CD2	1:v:387:GLN:HB3	2.50	0.46
1:y:302:ALA:HB3	1:y:314:SER:HB2	1.96	0.46
1:z:350:GLU:HG2	1:2:270:TYR:O	2.16	0.46
1:2:40:THR:OG1	1:2:131:TYR:HB2	2.16	0.46
1:3:121:PHE:HA	1:3:478:GLU:O	2.16	0.46
1:5:270:TYR:O	1:6:350:GLU:HG2	2.16	0.46
1:C:350:GLU:HG2	1:M:270:TYR:O	2.16	0.46
1:D:120:ARG:HH21	1:D:480:GLU:HG2	1.80	0.46
1:D:350:GLU:HG2	1:P:270:TYR:O	2.16	0.46
1:F:302:ALA:HB3	1:F:314:SER:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:120:ARG:HH21	1:I:480:GLU:HG2	1.80	0.46
1:J:137:GLN:NE2	1:J:463:LEU:HD11	2.31	0.46
1:J:270:TYR:O	1:L:350:GLU:HG2	2.16	0.46
1:N:85:LYS:HD2	1:N:311:ASP:HB2	1.98	0.46
1:N:120:ARG:HH21	1:N:480:GLU:HG2	1.80	0.46
1:O:40:THR:OG1	1:O:131:TYR:HB2	2.16	0.46
1:S:40:THR:OG1	1:S:131:TYR:HB2	2.16	0.46
1:U:121:PHE:HA	1:U:478:GLU:O	2.16	0.46
1:W:40:THR:OG1	1:W:131:TYR:HB2	2.16	0.46
1:X:121:PHE:HA	1:X:478:GLU:O	2.16	0.46
1:b:137:GLN:NE2	1:b:463:LEU:HD11	2.31	0.46
1:f:137:GLN:NE2	1:f:463:LEU:HD11	2.31	0.46
1:f:350:GLU:HG2	1:g:270:TYR:O	2.16	0.46
1:g:137:GLN:NE2	1:g:463:LEU:HD11	2.31	0.46
1:h:40:THR:OG1	1:h:131:TYR:HB2	2.16	0.46
1:i:40:THR:OG1	1:i:131:TYR:HB2	2.16	0.46
1:k:40:THR:OG1	1:k:131:TYR:HB2	2.16	0.46
1:m:85:LYS:HD2	1:m:311:ASP:HB2	1.98	0.46
1:m:514:LYS:O	1:s:73:ARG:HD2	2.16	0.46
1:p:121:PHE:HA	1:p:478:GLU:O	2.16	0.46
1:q:514:LYS:O	1:y:73:ARG:HD2	2.16	0.46
1:s:121:PHE:HA	1:s:478:GLU:O	2.16	0.46
1:u:120:ARG:HH21	1:u:480:GLU:HG2	1.80	0.46
1:u:270:TYR:O	1:v:350:GLU:HG2	2.16	0.46
1:v:137:GLN:NE2	1:v:463:LEU:HD11	2.31	0.46
1:y:40:THR:OG1	1:y:131:TYR:HB2	2.16	0.46
1:4:302:ALA:HB3	1:4:314:SER:HB2	1.96	0.46
1:6:137:GLN:NE2	1:6:463:LEU:HD11	2.31	0.46
1:6:270:TYR:O	1:7:350:GLU:HG2	2.15	0.46
1:7:121:PHE:HA	1:7:478:GLU:O	2.16	0.46
1:7:179:GLU:OE2	1:7:411:ARG:NH1	2.46	0.46
1:A:40:THR:OG1	1:A:131:TYR:HB2	2.16	0.46
1:A:137:GLN:NE2	1:A:463:LEU:HD11	2.31	0.46
1:C:291:THR:HG22	1:b:336:GLY:O	2.15	0.46
1:D:262:LYS:HZ1	1:N:91:SER:HB2	1.81	0.46
1:J:121:PHE:HA	1:J:478:GLU:O	2.16	0.46
1:K:514:LYS:O	1:L:73:ARG:HD2	2.16	0.46
1:O:270:TYR:O	1:m:350:GLU:HG2	2.16	0.46
1:O:350:GLU:HG2	1:n:270:TYR:O	2.16	0.46
1:P:137:GLN:NE2	1:P:463:LEU:HD11	2.31	0.46
1:W:121:PHE:HA	1:W:478:GLU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:137:GLN:NE2	1:W:463:LEU:HD11	2.31	0.46
1:Z:40:THR:OG1	1:Z:131:TYR:HB2	2.16	0.46
1:e:514:LYS:O	1:h:73:ARG:HD2	2.16	0.46
1:j:121:PHE:HA	1:j:478:GLU:O	2.16	0.46
1:j:137:GLN:NE2	1:j:463:LEU:HD11	2.31	0.46
1:j:270:TYR:O	1:k:350:GLU:HG2	2.16	0.46
1:j:291:THR:HG22	1:k:336:GLY:O	2.15	0.46
1:j:514:LYS:O	1:x:73:ARG:HD2	2.16	0.46
1:l:40:THR:OG1	1:l:131:TYR:HB2	2.16	0.46
1:m:137:GLN:NE2	1:m:463:LEU:HD11	2.31	0.46
1:o:40:THR:OG1	1:o:131:TYR:HB2	2.16	0.46
1:p:514:LYS:O	1:q:73:ARG:HD2	2.16	0.46
1:q:85:LYS:HD2	1:q:311:ASP:HB2	1.98	0.46
1:r:40:THR:OG1	1:r:131:TYR:HB2	2.16	0.46
1:u:73:ARG:HD2	1:5:514:LYS:O	2.16	0.46
1:u:291:THR:HG22	1:v:336:GLY:O	2.16	0.46
1:v:73:ARG:HD2	1:1:514:LYS:O	2.16	0.46
1:v:85:LYS:HD2	1:v:311:ASP:HB2	1.98	0.46
1:x:121:PHE:HA	1:x:478:GLU:O	2.16	0.46
1:z:73:ARG:HD2	1:4:514:LYS:O	2.16	0.46
1:z:120:ARG:HH21	1:z:480:GLU:HG2	1.80	0.46
1:2:121:PHE:HA	1:2:478:GLU:O	2.16	0.46
1:2:137:GLN:NE2	1:2:463:LEU:HD11	2.31	0.46
1:4:121:PHE:HA	1:4:478:GLU:O	2.16	0.46
1:5:40:THR:OG1	1:5:131:TYR:HB2	2.16	0.46
1:6:121:PHE:HA	1:6:478:GLU:O	2.16	0.46
1:8:40:THR:OG1	1:8:131:TYR:HB2	2.16	0.46
1:A:85:LYS:HD2	1:A:311:ASP:HB2	1.98	0.46
1:A:185:TRP:CH2	1:A:187:LEU:HD23	2.51	0.46
1:D:85:LYS:HD2	1:D:311:ASP:HB2	1.98	0.46
1:E:40:THR:OG1	1:E:131:TYR:HB2	2.16	0.46
1:E:85:LYS:HD2	1:E:311:ASP:HB2	1.98	0.46
1:G:137:GLN:NE2	1:G:463:LEU:HD11	2.31	0.46
1:H:514:LYS:O	1:I:73:ARG:HD2	2.16	0.46
1:I:85:LYS:HD2	1:I:311:ASP:HB2	1.98	0.46
1:J:185:TRP:CH2	1:J:187:LEU:HD23	2.51	0.46
1:K:121:PHE:HA	1:K:478:GLU:O	2.16	0.46
1:L:179:GLU:OE2	1:L:411:ARG:NH1	2.46	0.46
1:M:73:ARG:HD2	1:c:514:LYS:O	2.16	0.46
1:N:40:THR:OG1	1:N:131:TYR:HB2	2.16	0.46
1:N:514:LYS:O	1:m:73:ARG:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:73:ARG:HD2	1:d:514:LYS:O	2.16	0.46
1:O:137:GLN:NE2	1:O:463:LEU:HD11	2.31	0.46
1:P:121:PHE:HA	1:P:478:GLU:O	2.16	0.46
1:Q:121:PHE:HA	1:Q:478:GLU:O	2.16	0.46
1:T:85:LYS:HD2	1:T:311:ASP:HB2	1.98	0.46
1:T:137:GLN:NE2	1:T:463:LEU:HD11	2.31	0.46
1:T:179:GLU:OE2	1:T:411:ARG:NH1	2.46	0.46
1:V:85:LYS:HD2	1:V:311:ASP:HB2	1.98	0.46
1:V:121:PHE:HA	1:V:478:GLU:O	2.16	0.46
1:W:270:TYR:O	1:Y:350:GLU:HG2	2.16	0.46
1:X:185:TRP:CH2	1:X:187:LEU:HD23	2.51	0.46
1:Z:73:ARG:HD2	1:a:514:LYS:O	2.16	0.46
1:f:40:THR:OG1	1:f:131:TYR:HB2	2.16	0.46
1:f:120:ARG:HH21	1:f:480:GLU:HG2	1.80	0.46
1:g:336:GLY:O	1:h:291:THR:HG22	2.15	0.46
1:h:137:GLN:NE2	1:h:463:LEU:HD11	2.31	0.46
1:l:73:ARG:HD2	1:n:514:LYS:O	2.16	0.46
1:l:137:GLN:NE2	1:l:463:LEU:HD11	2.31	0.46
1:m:270:TYR:O	1:n:350:GLU:HG2	2.16	0.46
1:o:121:PHE:HA	1:o:478:GLU:O	2.16	0.46
1:o:185:TRP:CH2	1:o:187:LEU:HD23	2.51	0.46
1:p:85:LYS:HD2	1:p:311:ASP:HB2	1.98	0.46
1:u:85:LYS:HD2	1:u:311:ASP:HB2	1.98	0.46
1:v:40:THR:OG1	1:v:131:TYR:HB2	2.16	0.46
1:v:185:TRP:CH2	1:v:187:LEU:HD23	2.51	0.46
1:v:514:LYS:O	1:w:73:ARG:HD2	2.16	0.46
1:w:40:THR:OG1	1:w:131:TYR:HB2	2.16	0.46
1:w:85:LYS:HD2	1:w:311:ASP:HB2	1.98	0.46
1:w:350:GLU:HG2	1:y:270:TYR:O	2.16	0.46
1:x:40:THR:OG1	1:x:131:TYR:HB2	2.16	0.46
1:y:85:LYS:HD2	1:y:311:ASP:HB2	1.98	0.46
1:z:98:ASN:ND2	1:z:175:ASP:OD1	2.39	0.46
1:1:412:GLU:OE1	1:1:412:GLU:N	2.47	0.46
1:3:514:LYS:O	1:8:73:ARG:HD2	2.16	0.46
1:6:40:THR:OG1	1:6:131:TYR:HB2	2.16	0.46
1:B:185:TRP:CH2	1:B:187:LEU:HD23	2.51	0.45
1:B:302:ALA:HB3	1:B:314:SER:HB2	1.96	0.45
1:F:85:LYS:HD2	1:F:311:ASP:HB2	1.98	0.45
1:G:60:ARG:HG3	1:G:177:MET:HG3	1.99	0.45
1:G:185:TRP:CH2	1:G:187:LEU:HD23	2.52	0.45
1:H:40:THR:OG1	1:H:131:TYR:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:179:GLU:OE2	1:H:411:ARG:NH1	2.46	0.45
1:I:514:LYS:O	1:J:73:ARG:HD2	2.16	0.45
1:J:85:LYS:HD2	1:J:311:ASP:HB2	1.98	0.45
1:L:121:PHE:HA	1:L:478:GLU:O	2.16	0.45
1:L:137:GLN:NE2	1:L:463:LEU:HD11	2.31	0.45
1:M:121:PHE:HA	1:M:478:GLU:O	2.16	0.45
1:M:179:GLU:OE2	1:M:411:ARG:NH1	2.46	0.45
1:Q:40:THR:OG1	1:Q:131:TYR:HB2	2.16	0.45
1:R:85:LYS:HD2	1:R:311:ASP:HB2	1.98	0.45
1:R:121:PHE:HA	1:R:478:GLU:O	2.16	0.45
1:S:514:LYS:O	1:d:73:ARG:HD2	2.17	0.45
1:T:73:ARG:HD2	1:i:514:LYS:O	2.16	0.45
1:T:270:TYR:O	1:d:350:GLU:HG2	2.16	0.45
1:T:350:GLU:HG2	1:l:270:TYR:O	2.16	0.45
1:T:514:LYS:O	1:U:73:ARG:HD2	2.16	0.45
1:Y:179:GLU:OE2	1:Y:411:ARG:NH1	2.46	0.45
1:b:40:THR:OG1	1:b:131:TYR:HB2	2.16	0.45
1:b:120:ARG:HH21	1:b:480:GLU:HG2	1.80	0.45
1:d:270:TYR:O	1:l:350:GLU:HG2	2.16	0.45
1:g:40:THR:OG1	1:g:131:TYR:HB2	2.16	0.45
1:g:85:LYS:HD2	1:g:311:ASP:HB2	1.98	0.45
1:h:185:TRP:CH2	1:h:187:LEU:HD23	2.51	0.45
1:i:120:ARG:HH21	1:i:480:GLU:HG2	1.80	0.45
1:j:73:ARG:HD2	1:l:514:LYS:O	2.15	0.45
1:p:185:TRP:CH2	1:p:187:LEU:HD23	2.51	0.45
1:t:60:ARG:HG3	1:t:177:MET:HG3	1.99	0.45
1:t:137:GLN:NE2	1:t:463:LEU:HD11	2.31	0.45
1:x:291:THR:HG22	1:y:336:GLY:O	2.16	0.45
1:y:120:ARG:HH21	1:y:480:GLU:HG2	1.80	0.45
1:z:121:PHE:HA	1:z:478:GLU:O	2.16	0.45
1:z:179:GLU:OE2	1:z:411:ARG:NH1	2.46	0.45
1:1:185:TRP:CH2	1:1:187:LEU:HD23	2.52	0.45
1:2:185:TRP:CH2	1:2:187:LEU:HD23	2.51	0.45
1:4:185:TRP:CH2	1:4:187:LEU:HD23	2.51	0.45
1:8:121:PHE:HA	1:8:478:GLU:O	2.16	0.45
1:A:73:ARG:HD2	1:B:514:LYS:O	2.16	0.45
1:A:514:LYS:O	1:E:73:ARG:HD2	2.17	0.45
1:C:40:THR:OG1	1:C:131:TYR:HB2	2.16	0.45
1:C:120:ARG:HH21	1:C:480:GLU:HG2	1.80	0.45
1:D:121:PHE:HA	1:D:478:GLU:O	2.16	0.45
1:D:291:THR:HG22	1:N:336:GLY:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:120:ARG:HH21	1:F:480:GLU:HG2	1.80	0.45
1:F:350:GLU:HG2	1:Q:270:TYR:O	2.16	0.45
1:I:60:ARG:HG3	1:I:177:MET:HG3	1.99	0.45
1:I:121:PHE:HA	1:I:478:GLU:O	2.16	0.45
1:J:60:ARG:HG3	1:J:177:MET:HG3	1.99	0.45
1:K:73:ARG:HD2	1:7:514:LYS:O	2.16	0.45
1:K:185:TRP:CH2	1:K:187:LEU:HD23	2.52	0.45
1:M:137:GLN:NE2	1:M:463:LEU:HD11	2.31	0.45
1:M:185:TRP:CH2	1:M:187:LEU:HD23	2.51	0.45
1:O:85:LYS:HD2	1:O:311:ASP:HB2	1.98	0.45
1:R:185:TRP:CH2	1:R:187:LEU:HD23	2.51	0.45
1:T:127:HIS:CD2	1:T:238:THR:HG22	2.47	0.45
1:V:185:TRP:CH2	1:V:187:LEU:HD23	2.52	0.45
1:Y:60:ARG:HG3	1:Y:177:MET:HG3	1.99	0.45
1:Z:185:TRP:CH2	1:Z:187:LEU:HD23	2.52	0.45
1:a:185:TRP:CH2	1:a:187:LEU:HD23	2.51	0.45
1:e:120:ARG:HH21	1:e:480:GLU:HG2	1.80	0.45
1:f:85:LYS:HD2	1:f:311:ASP:HB2	1.98	0.45
1:k:85:LYS:HD2	1:k:311:ASP:HB2	1.98	0.45
1:k:121:PHE:HA	1:k:478:GLU:O	2.16	0.45
1:l:60:ARG:HG3	1:l:177:MET:HG3	1.99	0.45
1:l:85:LYS:HD2	1:l:311:ASP:HB2	1.98	0.45
1:m:127:HIS:CD2	1:m:238:THR:HG22	2.47	0.45
1:m:179:GLU:OE2	1:m:411:ARG:NH1	2.46	0.45
1:m:185:TRP:CH2	1:m:187:LEU:HD23	2.51	0.45
1:q:121:PHE:HA	1:q:478:GLU:O	2.16	0.45
1:t:185:TRP:CH2	1:t:187:LEU:HD23	2.52	0.45
1:u:60:ARG:HG3	1:u:177:MET:HG3	1.99	0.45
1:w:137:GLN:NE2	1:w:463:LEU:HD11	2.31	0.45
1:z:137:GLN:NE2	1:z:463:LEU:HD11	2.31	0.45
1:1:270:TYR:O	1:2:350:GLU:HG2	2.16	0.45
1:1:302:ALA:HB3	1:1:314:SER:HB2	1.96	0.45
1:5:350:GLU:HG2	1:7:270:TYR:O	2.16	0.45
1:6:185:TRP:CH2	1:6:187:LEU:HD23	2.51	0.45
1:7:60:ARG:HG3	1:7:177:MET:HG3	1.99	0.45
1:B:270:TYR:O	1:J:350:GLU:HG2	2.16	0.45
1:B:412:GLU:OE1	1:B:412:GLU:N	2.47	0.45
1:C:60:ARG:HG3	1:C:177:MET:HG3	1.99	0.45
1:C:85:LYS:HD2	1:C:311:ASP:HB2	1.98	0.45
1:E:137:GLN:NE2	1:E:463:LEU:HD11	2.31	0.45
1:E:185:TRP:CH2	1:E:187:LEU:HD23	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:350:GLU:HG2	1:Y:270:TYR:O	2.16	0.45
1:I:137:GLN:NE2	1:I:463:LEU:HD11	2.31	0.45
1:J:372:PRO:HG3	1:L:322:ASP:HB2	1.96	0.45
1:K:137:GLN:NE2	1:K:463:LEU:HD11	2.31	0.45
1:O:60:ARG:HG3	1:O:177:MET:HG3	1.99	0.45
1:O:185:TRP:CH2	1:O:187:LEU:HD23	2.52	0.45
1:O:514:LYS:O	1:P:73:ARG:HD2	2.16	0.45
1:P:514:LYS:O	1:Q:73:ARG:HD2	2.16	0.45
1:R:73:ARG:HD2	1:V:514:LYS:O	2.16	0.45
1:T:185:TRP:CH2	1:T:187:LEU:HD23	2.52	0.45
1:Z:60:ARG:HG3	1:Z:177:MET:HG3	1.99	0.45
1:Z:121:PHE:HA	1:Z:478:GLU:O	2.16	0.45
1:Z:291:THR:HG22	1:4:336:GLY:O	2.16	0.45
1:a:85:LYS:HD2	1:a:311:ASP:HB2	1.98	0.45
1:c:121:PHE:HA	1:c:478:GLU:O	2.16	0.45
1:g:60:ARG:HG3	1:g:177:MET:HG3	1.99	0.45
1:h:121:PHE:HA	1:h:478:GLU:O	2.16	0.45
1:j:40:THR:OG1	1:j:131:TYR:HB2	2.16	0.45
1:l:185:TRP:CH2	1:l:187:LEU:HD23	2.52	0.45
1:n:73:ARG:HD2	1:r:514:LYS:O	2.17	0.45
1:o:85:LYS:HD2	1:o:311:ASP:HB2	1.98	0.45
1:q:185:TRP:CH2	1:q:187:LEU:HD23	2.52	0.45
1:q:423:ASP:OD2	1:s:531:LYS:NZ	2.29	0.45
1:t:270:TYR:O	1:u:350:GLU:HG2	2.17	0.45
1:u:121:PHE:HA	1:u:478:GLU:O	2.16	0.45
1:u:137:GLN:NE2	1:u:463:LEU:HD11	2.31	0.45
1:u:514:LYS:O	1:2:73:ARG:HD2	2.16	0.45
1:w:120:ARG:HH21	1:w:480:GLU:HG2	1.80	0.45
1:w:121:PHE:HA	1:w:478:GLU:O	2.16	0.45
1:x:60:ARG:HG3	1:x:177:MET:HG3	1.99	0.45
1:z:322:ASP:HB2	1:2:372:PRO:HG3	1.96	0.45
1:2:60:ARG:HG3	1:2:177:MET:HG3	1.99	0.45
1:2:85:LYS:HD2	1:2:311:ASP:HB2	1.98	0.45
1:3:85:LYS:HD2	1:3:311:ASP:HB2	1.98	0.45
1:3:185:TRP:CH2	1:3:187:LEU:HD23	2.51	0.45
1:4:137:GLN:NE2	1:4:463:LEU:HD11	2.31	0.45
1:5:121:PHE:HA	1:5:478:GLU:O	2.16	0.45
1:7:85:LYS:HD2	1:7:311:ASP:HB2	1.98	0.45
1:8:60:ARG:HG3	1:8:177:MET:HG3	1.99	0.45
1:8:185:TRP:CH2	1:8:187:LEU:HD23	2.52	0.45
1:A:328:SER:OG	1:A:329:GLY:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:127:HIS:CD2	1:B:238:THR:HG22	2.47	0.45
1:B:179:GLU:OE2	1:B:411:ARG:NH1	2.46	0.45
1:C:185:TRP:CH2	1:C:187:LEU:HD23	2.51	0.45
1:C:328:SER:OG	1:C:329:GLY:N	2.50	0.45
1:C:345:ARG:HB2	1:C:379:ASP:OD1	2.17	0.45
1:D:210:LYS:HD2	1:E:500:ILE:HD12	1.99	0.45
1:D:328:SER:OG	1:D:329:GLY:N	2.50	0.45
1:E:121:PHE:HA	1:E:478:GLU:O	2.16	0.45
1:E:350:GLU:HG2	1:F:270:TYR:O	2.16	0.45
1:F:345:ARG:HB2	1:F:379:ASP:OD1	2.17	0.45
1:G:270:TYR:O	1:I:350:GLU:HG2	2.17	0.45
1:K:40:THR:OG1	1:K:131:TYR:HB2	2.16	0.45
1:K:345:ARG:HB2	1:K:379:ASP:OD1	2.17	0.45
1:K:350:GLU:HG2	1:8:270:TYR:O	2.16	0.45
1:L:60:ARG:HG3	1:L:177:MET:HG3	1.99	0.45
1:L:98:ASN:ND2	1:L:175:ASP:OD1	2.39	0.45
1:M:91:SER:HB2	1:b:262:LYS:NZ	2.32	0.45
1:M:206:ASN:HD21	1:M:324:THR:HA	1.82	0.45
1:N:206:ASN:HD21	1:N:324:THR:HA	1.82	0.45
1:S:121:PHE:HA	1:S:478:GLU:O	2.16	0.45
1:S:328:SER:OG	1:S:329:GLY:N	2.50	0.45
1:T:40:THR:OG1	1:T:131:TYR:HB2	2.16	0.45
1:V:40:THR:OG1	1:V:131:TYR:HB2	2.16	0.45
1:V:73:ARG:HD2	1:W:514:LYS:O	2.16	0.45
1:W:185:TRP:CH2	1:W:187:LEU:HD23	2.52	0.45
1:X:85:LYS:HD2	1:X:311:ASP:HB2	1.98	0.45
1:Y:328:SER:OG	1:Y:329:GLY:N	2.50	0.45
1:b:85:LYS:HD2	1:b:311:ASP:HB2	1.98	0.45
1:b:345:ARG:HB2	1:b:379:ASP:OD1	2.17	0.45
1:c:120:ARG:HH21	1:c:480:GLU:HG2	1.80	0.45
1:d:40:THR:OG1	1:d:131:TYR:HB2	2.16	0.45
1:e:121:PHE:HA	1:e:478:GLU:O	2.16	0.45
1:f:60:ARG:HG3	1:f:177:MET:HG3	1.99	0.45
1:f:262:LYS:NZ	1:h:91:SER:HB2	2.32	0.45
1:g:185:TRP:CH2	1:g:187:LEU:HD23	2.52	0.45
1:g:328:SER:OG	1:g:329:GLY:N	2.50	0.45
1:g:514:LYS:O	1:1:73:ARG:HD2	2.16	0.45
1:h:179:GLU:OE2	1:h:411:ARG:NH1	2.46	0.45
1:i:206:ASN:HD21	1:i:324:THR:HA	1.82	0.45
1:i:336:GLY:O	1:k:291:THR:HG22	2.15	0.45
1:k:328:SER:OG	1:k:329:GLY:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:345:ARG:HB2	1:l:379:ASP:OD1	2.17	0.45
1:m:40:THR:OG1	1:m:131:TYR:HB2	2.16	0.45
1:m:262:LYS:HZ1	1:n:91:SER:HB2	1.81	0.45
1:n:127:HIS:CD2	1:n:238:THR:HG22	2.47	0.45
1:p:40:THR:OG1	1:p:131:TYR:HB2	2.16	0.45
1:q:328:SER:OG	1:q:329:GLY:N	2.50	0.45
1:r:328:SER:OG	1:r:329:GLY:N	2.50	0.45
1:s:60:ARG:HG3	1:s:177:MET:HG3	1.98	0.45
1:s:127:HIS:CD2	1:s:238:THR:HG22	2.47	0.45
1:u:185:TRP:CH2	1:u:187:LEU:HD23	2.51	0.45
1:y:206:ASN:HD21	1:y:324:THR:HA	1.82	0.45
1:y:345:ARG:HB2	1:y:379:ASP:OD1	2.17	0.45
1:3:127:HIS:CD2	1:3:238:THR:HG22	2.47	0.45
1:4:40:THR:OG1	1:4:131:TYR:HB2	2.16	0.45
1:4:345:ARG:HB2	1:4:379:ASP:OD1	2.17	0.45
1:5:179:GLU:OE2	1:5:411:ARG:NH1	2.46	0.45
1:7:328:SER:OG	1:7:329:GLY:N	2.50	0.45
1:B:153:ALA:HA	1:C:134:GLN:NE2	2.31	0.45
1:B:210:LYS:HD2	1:C:500:ILE:HD12	1.98	0.45
1:E:120:ARG:HH21	1:E:480:GLU:HG2	1.80	0.45
1:F:127:HIS:CD2	1:F:238:THR:HG22	2.47	0.45
1:F:206:ASN:HD21	1:F:324:THR:HA	1.82	0.45
1:G:514:LYS:O	1:W:73:ARG:HD2	2.16	0.45
1:H:85:LYS:HD2	1:H:311:ASP:HB2	1.98	0.45
1:H:121:PHE:HA	1:H:478:GLU:O	2.16	0.45
1:K:270:TYR:O	1:a:350:GLU:HG2	2.16	0.45
1:O:345:ARG:HB2	1:O:379:ASP:OD1	2.17	0.45
1:P:40:THR:OG1	1:P:131:TYR:HB2	2.16	0.45
1:P:60:ARG:HG3	1:P:177:MET:HG3	1.99	0.45
1:Q:60:ARG:HG3	1:Q:177:MET:HG3	1.99	0.45
1:Q:185:TRP:CH2	1:Q:187:LEU:HD23	2.51	0.45
1:R:328:SER:OG	1:R:329:GLY:N	2.50	0.45
1:S:270:TYR:O	1:U:350:GLU:HG2	2.16	0.45
1:U:120:ARG:HH21	1:U:480:GLU:HG2	1.80	0.45
1:Y:85:LYS:HD2	1:Y:311:ASP:HB2	1.98	0.45
1:a:60:ARG:HG3	1:a:177:MET:HG3	1.98	0.45
1:a:137:GLN:NE2	1:a:463:LEU:HD11	2.31	0.45
1:b:60:ARG:HG3	1:b:177:MET:HG3	1.99	0.45
1:b:328:SER:OG	1:b:329:GLY:N	2.50	0.45
1:b:514:LYS:O	1:o:73:ARG:HD2	2.16	0.45
1:c:328:SER:OG	1:c:329:GLY:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:85:LYS:HD2	1:d:311:ASP:HB2	1.98	0.45
1:d:127:HIS:CD2	1:d:238:THR:HG22	2.47	0.45
1:d:328:SER:OG	1:d:329:GLY:N	2.50	0.45
1:e:60:ARG:HG3	1:e:177:MET:HG3	1.99	0.45
1:e:328:SER:OG	1:e:329:GLY:N	2.50	0.45
1:f:328:SER:OG	1:f:329:GLY:N	2.50	0.45
1:f:345:ARG:HB2	1:f:379:ASP:OD1	2.17	0.45
1:g:120:ARG:HH21	1:g:480:GLU:HG2	1.80	0.45
1:g:345:ARG:HB2	1:g:379:ASP:OD1	2.17	0.45
1:h:206:ASN:HD21	1:h:324:THR:HA	1.82	0.45
1:j:60:ARG:HG3	1:j:177:MET:HG3	1.99	0.45
1:j:328:SER:OG	1:j:329:GLY:N	2.50	0.45
1:k:179:GLU:OE2	1:k:411:ARG:NH1	2.46	0.45
1:k:210:LYS:HD2	1:w:500:ILE:HD12	1.99	0.45
1:l:150:ASP:OD1	1:l:150:ASP:N	2.50	0.45
1:n:40:THR:OG1	1:n:131:TYR:HB2	2.16	0.45
1:p:73:ARG:HD2	1:6:514:LYS:O	2.16	0.45
1:p:137:GLN:NE2	1:p:463:LEU:HD11	2.31	0.45
1:p:206:ASN:HD21	1:p:324:THR:HA	1.82	0.45
1:r:270:TYR:O	1:s:350:GLU:HG2	2.16	0.45
1:s:85:LYS:HD2	1:s:311:ASP:HB2	1.98	0.45
1:s:120:ARG:HH21	1:s:480:GLU:HG2	1.80	0.45
1:s:185:TRP:CH2	1:s:187:LEU:HD23	2.51	0.45
1:s:206:ASN:HD21	1:s:324:THR:HA	1.82	0.45
1:v:60:ARG:HG3	1:v:177:MET:HG3	1.99	0.45
1:v:328:SER:OG	1:v:329:GLY:N	2.50	0.45
1:w:185:TRP:CH2	1:w:187:LEU:HD23	2.52	0.45
1:z:60:ARG:HG3	1:z:177:MET:HG3	1.99	0.45
1:z:270:TYR:O	1:1:350:GLU:HG2	2.16	0.45
1:1:127:HIS:CD2	1:1:238:THR:HG22	2.47	0.45
1:1:179:GLU:OE2	1:1:411:ARG:NH1	2.46	0.45
1:3:60:ARG:HG3	1:3:177:MET:HG3	1.99	0.45
1:3:137:GLN:NE2	1:3:463:LEU:HD11	2.31	0.45
1:5:185:TRP:CH2	1:5:187:LEU:HD23	2.51	0.45
1:A:60:ARG:HG3	1:A:177:MET:HG3	1.99	0.45
1:D:73:ARG:HD2	1:E:514:LYS:O	2.16	0.45
1:E:127:HIS:CD2	1:E:238:THR:HG22	2.47	0.45
1:F:73:ARG:HD2	1:R:514:LYS:O	2.17	0.45
1:F:185:TRP:CH2	1:F:187:LEU:HD23	2.51	0.45
1:F:336:GLY:O	1:Q:291:THR:HG22	2.16	0.45
1:G:150:ASP:OD1	1:G:150:ASP:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:185:TRP:CH2	1:H:187:LEU:HD23	2.52	0.45
1:I:185:TRP:CH2	1:I:187:LEU:HD23	2.51	0.45
1:J:206:ASN:HD21	1:J:324:THR:HA	1.82	0.45
1:J:328:SER:OG	1:J:329:GLY:N	2.50	0.45
1:L:85:LYS:HD2	1:L:311:ASP:HB2	1.98	0.45
1:L:185:TRP:CH2	1:L:187:LEU:HD23	2.51	0.45
1:M:455:SER:OG	1:M:457:ASN:O	2.28	0.45
1:O:150:ASP:OD1	1:O:150:ASP:N	2.50	0.45
1:P:328:SER:OG	1:P:329:GLY:N	2.50	0.45
1:S:185:TRP:CH2	1:S:187:LEU:HD23	2.52	0.45
1:S:206:ASN:HD21	1:S:324:THR:HA	1.82	0.45
1:U:60:ARG:HG3	1:U:177:MET:HG3	1.99	0.45
1:U:85:LYS:HD2	1:U:311:ASP:HB2	1.98	0.45
1:U:206:ASN:HD21	1:U:324:THR:HA	1.82	0.45
1:U:328:SER:OG	1:U:329:GLY:N	2.50	0.45
1:V:137:GLN:NE2	1:V:463:LEU:HD11	2.31	0.45
1:V:150:ASP:OD1	1:V:150:ASP:N	2.50	0.45
1:V:206:ASN:HD21	1:V:324:THR:HA	1.82	0.45
1:W:345:ARG:HB2	1:W:379:ASP:OD1	2.17	0.45
1:c:60:ARG:HG3	1:c:177:MET:HG3	1.99	0.45
1:i:185:TRP:CH2	1:i:187:LEU:HD23	2.51	0.45
1:j:185:TRP:CH2	1:j:187:LEU:HD23	2.51	0.45
1:k:73:ARG:HD2	1:w:514:LYS:O	2.16	0.45
1:n:85:LYS:HD2	1:n:311:ASP:HB2	1.98	0.45
1:n:328:SER:OG	1:n:329:GLY:N	2.50	0.45
1:p:150:ASP:OD1	1:p:150:ASP:N	2.50	0.45
1:q:40:THR:OG1	1:q:131:TYR:HB2	2.16	0.45
1:r:121:PHE:HA	1:r:478:GLU:O	2.16	0.45
1:r:185:TRP:CH2	1:r:187:LEU:HD23	2.51	0.45
1:r:206:ASN:HD21	1:r:324:THR:HA	1.82	0.45
1:s:328:SER:OG	1:s:329:GLY:N	2.50	0.45
1:t:150:ASP:N	1:t:150:ASP:OD1	2.50	0.45
1:u:345:ARG:HB2	1:u:379:ASP:OD1	2.17	0.45
1:w:127:HIS:CD2	1:w:238:THR:HG22	2.47	0.45
1:x:185:TRP:CH2	1:x:187:LEU:HD23	2.51	0.45
1:x:270:TYR:O	1:y:350:GLU:HG2	2.16	0.45
1:z:85:LYS:HD2	1:z:311:ASP:HB2	1.98	0.45
1:z:185:TRP:CH2	1:z:187:LEU:HD23	2.51	0.45
1:5:206:ASN:HD21	1:5:324:THR:HA	1.82	0.45
1:6:345:ARG:HB2	1:6:379:ASP:OD1	2.17	0.45
1:7:185:TRP:CH2	1:7:187:LEU:HD23	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:328:SER:OG	1:B:329:GLY:N	2.50	0.45
1:B:350:GLU:HG2	1:L:270:TYR:O	2.16	0.45
1:D:179:GLU:OE2	1:D:411:ARG:NH1	2.46	0.45
1:F:91:SER:HB2	1:Q:262:LYS:NZ	2.32	0.45
1:H:206:ASN:HD21	1:H:324:THR:HA	1.82	0.45
1:I:345:ARG:HB2	1:I:379:ASP:OD1	2.17	0.45
1:N:134:GLN:NE2	1:m:153:ALA:HA	2.32	0.45
1:Q:328:SER:OG	1:Q:329:GLY:N	2.50	0.45
1:R:40:THR:OG1	1:R:131:TYR:HB2	2.16	0.45
1:S:262:LYS:NZ	1:U:91:SER:HB2	2.32	0.45
1:S:291:THR:HG22	1:U:336:GLY:O	2.15	0.45
1:U:137:GLN:NE2	1:U:463:LEU:HD11	2.31	0.45
1:X:73:ARG:HD2	1:f:514:LYS:O	2.16	0.45
1:X:134:GLN:NE2	1:Y:153:ALA:HA	2.32	0.45
1:Y:185:TRP:CH2	1:Y:187:LEU:HD23	2.51	0.45
1:a:40:THR:OG1	1:a:131:TYR:HB2	2.16	0.45
1:a:127:HIS:CD2	1:a:238:THR:HG22	2.47	0.45
1:e:345:ARG:HB2	1:e:379:ASP:OD1	2.17	0.45
1:f:150:ASP:N	1:f:150:ASP:OD1	2.50	0.45
1:k:60:ARG:HG3	1:k:177:MET:HG3	1.98	0.45
1:m:206:ASN:HD21	1:m:324:THR:HA	1.82	0.45
1:r:291:THR:HG22	1:s:336:GLY:O	2.15	0.45
1:r:345:ARG:HB2	1:r:379:ASP:OD1	2.17	0.45
1:s:137:GLN:NE2	1:s:463:LEU:HD11	2.31	0.45
1:t:500:ILE:HD12	1:6:210:LYS:HD2	1.99	0.45
1:t:514:LYS:O	1:6:73:ARG:HD2	2.16	0.45
1:u:210:LYS:HD2	1:5:500:ILE:HD12	1.99	0.45
1:x:328:SER:OG	1:x:329:GLY:N	2.50	0.45
1:y:127:HIS:CD2	1:y:238:THR:HG22	2.47	0.45
1:y:185:TRP:CH2	1:y:187:LEU:HD23	2.51	0.45
1:2:328:SER:OG	1:2:329:GLY:N	2.50	0.45
1:5:85:LYS:HD2	1:5:311:ASP:HB2	1.98	0.45
1:A:210:LYS:HD2	1:B:500:ILE:HD12	1.99	0.45
1:E:274:HIS:HD2	1:E:387:GLN:HB3	1.82	0.45
1:F:210:LYS:HD2	1:R:500:ILE:HD12	1.98	0.45
1:G:500:ILE:HD12	1:W:210:LYS:HD2	1.99	0.45
1:H:500:ILE:HD12	1:I:210:LYS:HD2	1.99	0.45
1:J:345:ARG:HB2	1:J:379:ASP:OD1	2.17	0.45
1:N:185:TRP:CH2	1:N:187:LEU:HD23	2.51	0.45
1:N:274:HIS:HD2	1:N:387:GLN:HB3	1.82	0.45
1:P:185:TRP:CH2	1:P:187:LEU:HD23	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:345:ARG:HB2	1:P:379:ASP:OD1	2.17	0.45
1:P:500:ILE:HD12	1:Q:210:LYS:HD2	1.99	0.45
1:R:270:TYR:O	1:S:350:GLU:HG2	2.16	0.45
1:R:423:ASP:OD2	1:U:531:LYS:NZ	2.29	0.45
1:S:345:ARG:HB2	1:S:379:ASP:OD1	2.17	0.45
1:T:153:ALA:HA	1:i:134:GLN:NE2	2.32	0.45
1:T:206:ASN:HD21	1:T:324:THR:HA	1.82	0.45
1:T:345:ARG:HB2	1:T:379:ASP:OD1	2.17	0.45
1:U:185:TRP:CH2	1:U:187:LEU:HD23	2.52	0.45
1:V:274:HIS:HD2	1:V:387:GLN:HB3	1.82	0.45
1:W:150:ASP:OD1	1:W:150:ASP:N	2.50	0.45
1:W:328:SER:OG	1:W:329:GLY:N	2.50	0.45
1:X:91:SER:HB2	1:e:262:LYS:NZ	2.32	0.45
1:Y:206:ASN:HD21	1:Y:324:THR:HA	1.82	0.45
1:b:150:ASP:OD1	1:b:150:ASP:N	2.50	0.45
1:c:262:LYS:NZ	1:o:91:SER:HB2	2.32	0.45
1:c:345:ARG:HB2	1:c:379:ASP:OD1	2.17	0.45
1:e:40:THR:OG1	1:e:131:TYR:HB2	2.16	0.45
1:h:150:ASP:OD1	1:h:150:ASP:N	2.50	0.45
1:i:274:HIS:HD2	1:i:387:GLN:HB3	1.82	0.45
1:j:274:HIS:HD2	1:j:387:GLN:HB3	1.82	0.45
1:j:345:ARG:HB2	1:j:379:ASP:OD1	2.17	0.45
1:o:134:GLN:NE2	1:7:153:ALA:HA	2.32	0.45
1:q:60:ARG:HG3	1:q:177:MET:HG3	1.99	0.45
1:q:270:TYR:O	1:r:350:GLU:HG2	2.16	0.45
1:r:262:LYS:NZ	1:s:91:SER:HB2	2.32	0.45
1:w:274:HIS:HD2	1:w:387:GLN:HB3	1.82	0.45
1:x:137:GLN:NE2	1:x:463:LEU:HD11	2.31	0.45
1:2:345:ARG:HB2	1:2:379:ASP:OD1	2.17	0.45
1:6:328:SER:OG	1:6:329:GLY:N	2.50	0.45
1:7:206:ASN:HD21	1:7:324:THR:HA	1.82	0.45
1:8:328:SER:OG	1:8:329:GLY:N	2.50	0.45
1:A:345:ARG:HB2	1:A:379:ASP:OD1	2.17	0.45
1:B:206:ASN:HD21	1:B:324:THR:HA	1.82	0.45
1:D:60:ARG:HG3	1:D:177:MET:HG3	1.99	0.45
1:F:137:GLN:NE2	1:F:463:LEU:HD11	2.31	0.45
1:M:150:ASP:OD1	1:M:150:ASP:N	2.50	0.45
1:O:316:MET:HA	1:O:336:GLY:HA2	1.99	0.45
1:P:274:HIS:HD2	1:P:387:GLN:HB3	1.82	0.45
1:Q:134:GLN:NE2	1:S:153:ALA:HA	2.32	0.45
1:Q:137:GLN:NE2	1:Q:463:LEU:HD11	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:514:LYS:O	1:S:73:ARG:HD2	2.16	0.45
1:R:60:ARG:HG3	1:R:177:MET:HG3	1.99	0.45
1:R:150:ASP:OD1	1:R:150:ASP:N	2.50	0.45
1:W:60:ARG:HG3	1:W:177:MET:HG3	1.99	0.45
1:X:179:GLU:OE2	1:X:411:ARG:NH1	2.46	0.45
1:Y:127:HIS:CD2	1:Y:238:THR:HG22	2.47	0.45
1:Y:274:HIS:HD2	1:Y:387:GLN:HB3	1.82	0.45
1:Z:372:PRO:HG3	1:4:322:ASP:HB2	1.98	0.45
1:b:121:PHE:HA	1:b:478:GLU:O	2.16	0.45
1:b:455:SER:OG	1:b:457:ASN:O	2.28	0.45
1:c:40:THR:OG1	1:c:131:TYR:HB2	2.16	0.45
1:e:85:LYS:HD2	1:e:311:ASP:HB2	1.98	0.45
1:k:345:ARG:HB2	1:k:379:ASP:OD1	2.17	0.45
1:m:345:ARG:HB2	1:m:379:ASP:OD1	2.17	0.45
1:p:274:HIS:HD2	1:p:387:GLN:HB3	1.82	0.45
1:r:73:ARG:HD2	1:x:514:LYS:O	2.16	0.45
1:v:206:ASN:HD21	1:v:324:THR:HA	1.82	0.45
1:v:210:LYS:HD2	1:1:500:ILE:HD12	1.99	0.45
1:w:60:ARG:HG3	1:w:177:MET:HG3	1.99	0.45
1:w:328:SER:OG	1:w:329:GLY:N	2.50	0.45
1:w:423:ASP:OD2	1:y:531:LYS:NZ	2.29	0.45
1:y:60:ARG:HG3	1:y:177:MET:HG3	1.99	0.45
1:y:179:GLU:OE2	1:y:411:ARG:NH1	2.46	0.45
1:y:274:HIS:HD2	1:y:387:GLN:HB3	1.82	0.45
1:z:153:ALA:HA	1:4:134:GLN:NE2	2.32	0.45
1:1:206:ASN:HD21	1:1:324:THR:HA	1.82	0.45
1:1:328:SER:OG	1:1:329:GLY:N	2.50	0.45
1:4:328:SER:OG	1:4:329:GLY:N	2.50	0.45
1:6:60:ARG:HG3	1:6:177:MET:HG3	1.99	0.45
1:7:274:HIS:HD2	1:7:387:GLN:HB3	1.82	0.45
1:7:345:ARG:HB2	1:7:379:ASP:OD1	2.17	0.45
1:8:345:ARG:HB2	1:8:379:ASP:OD1	2.17	0.45
1:A:206:ASN:HD21	1:A:324:THR:HA	1.82	0.45
1:A:316:MET:HA	1:A:336:GLY:HA2	1.99	0.45
1:A:500:ILE:HD12	1:E:210:LYS:HD2	1.99	0.45
1:D:345:ARG:HB2	1:D:379:ASP:OD1	2.17	0.45
1:E:60:ARG:HG3	1:E:177:MET:HG3	1.99	0.45
1:E:206:ASN:HD21	1:E:324:THR:HA	1.82	0.45
1:E:270:TYR:O	1:Q:350:GLU:HG2	2.17	0.45
1:E:328:SER:OG	1:E:329:GLY:N	2.50	0.45
1:F:60:ARG:HG3	1:F:177:MET:HG3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:179:GLU:OE2	1:F:411:ARG:NH1	2.46	0.45
1:F:274:HIS:HD2	1:F:387:GLN:HB3	1.82	0.45
1:F:500:ILE:HD12	1:G:210:LYS:HD2	1.99	0.45
1:H:60:ARG:HG3	1:H:177:MET:HG3	1.99	0.45
1:H:328:SER:OG	1:H:329:GLY:N	2.50	0.45
1:I:127:HIS:CD2	1:I:238:THR:HG22	2.47	0.45
1:J:262:LYS:NZ	1:L:91:SER:HB2	2.32	0.45
1:K:328:SER:OG	1:K:329:GLY:N	2.50	0.45
1:L:40:THR:OG1	1:L:131:TYR:HB2	2.16	0.45
1:L:206:ASN:HD21	1:L:324:THR:HA	1.82	0.45
1:L:328:SER:OG	1:L:329:GLY:N	2.50	0.45
1:N:60:ARG:HG3	1:N:177:MET:HG3	1.98	0.45
1:P:179:GLU:OE2	1:P:411:ARG:NH1	2.46	0.45
1:R:274:HIS:HD2	1:R:387:GLN:HB3	1.82	0.45
1:T:134:GLN:NE2	1:U:153:ALA:HA	2.32	0.45
1:Y:345:ARG:HB2	1:Y:379:ASP:OD1	2.17	0.45
1:Z:328:SER:OG	1:Z:329:GLY:N	2.50	0.45
1:b:185:TRP:CH2	1:b:187:LEU:HD23	2.51	0.45
1:c:85:LYS:HD2	1:c:311:ASP:HB2	1.98	0.45
1:d:345:ARG:HB2	1:d:379:ASP:OD1	2.17	0.45
1:i:262:LYS:NZ	1:j:91:SER:HB2	2.32	0.45
1:j:179:GLU:OE2	1:j:411:ARG:NH1	2.46	0.45
1:j:206:ASN:HD21	1:j:324:THR:HA	1.82	0.45
1:m:60:ARG:HG3	1:m:177:MET:HG3	1.99	0.45
1:n:455:SER:OG	1:n:457:ASN:O	2.28	0.45
1:q:150:ASP:N	1:q:150:ASP:OD1	2.50	0.45
1:q:350:GLU:HG2	1:s:270:TYR:O	2.16	0.45
1:t:121:PHE:HA	1:t:478:GLU:O	2.16	0.45
1:v:345:ARG:HB2	1:v:379:ASP:OD1	2.17	0.45
1:x:85:LYS:HD2	1:x:311:ASP:HB2	1.98	0.45
1:x:206:ASN:HD21	1:x:324:THR:HA	1.82	0.45
1:z:40:THR:OG1	1:z:131:TYR:HB2	2.16	0.45
1:z:206:ASN:HD21	1:z:324:THR:HA	1.82	0.45
1:3:40:THR:OG1	1:3:131:TYR:HB2	2.16	0.45
1:4:274:HIS:HD2	1:4:387:GLN:HB3	1.82	0.45
1:5:127:HIS:CD2	1:5:238:THR:HG22	2.47	0.45
1:5:328:SER:OG	1:5:329:GLY:N	2.50	0.45
1:6:150:ASP:N	1:6:150:ASP:OD1	2.50	0.45
1:C:210:LYS:HD2	1:D:500:ILE:HD12	1.98	0.44
1:G:121:PHE:HA	1:G:478:GLU:O	2.16	0.44
1:I:328:SER:OG	1:I:329:GLY:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:316:MET:HA	1:J:336:GLY:HA2	1.99	0.44
1:P:127:HIS:CD2	1:P:238:THR:HG22	2.47	0.44
1:P:206:ASN:HD21	1:P:324:THR:HA	1.82	0.44
1:Q:85:LYS:HD2	1:Q:311:ASP:HB2	1.98	0.44
1:Q:206:ASN:HD21	1:Q:324:THR:HA	1.82	0.44
1:R:206:ASN:HD21	1:R:324:THR:HA	1.82	0.44
1:R:316:MET:HA	1:R:336:GLY:HA2	1.99	0.44
1:R:350:GLU:HG2	1:U:270:TYR:O	2.16	0.44
1:S:85:LYS:HD2	1:S:311:ASP:HB2	1.98	0.44
1:T:60:ARG:HG3	1:T:177:MET:HG3	1.99	0.44
1:V:60:ARG:HG3	1:V:177:MET:HG3	1.99	0.44
1:W:85:LYS:HD2	1:W:311:ASP:HB2	1.98	0.44
1:X:316:MET:HA	1:X:336:GLY:HA2	1.99	0.44
1:Y:506:ILE:HB	1:4:88:ARG:HH22	1.82	0.44
1:Z:345:ARG:HB2	1:Z:379:ASP:OD1	2.17	0.44
1:b:206:ASN:HD21	1:b:324:THR:HA	1.82	0.44
1:d:274:HIS:HD2	1:d:387:GLN:HB3	1.82	0.44
1:f:121:PHE:HA	1:f:478:GLU:O	2.16	0.44
1:f:185:TRP:CH2	1:f:187:LEU:HD23	2.51	0.44
1:f:455:SER:OG	1:f:457:ASN:O	2.28	0.44
1:g:73:ARG:HD2	1:k:514:LYS:O	2.16	0.44
1:j:262:LYS:NZ	1:k:91:SER:HB2	2.32	0.44
1:j:531:LYS:NZ	1:k:423:ASP:OD2	2.29	0.44
1:k:185:TRP:CH2	1:k:187:LEU:HD23	2.51	0.44
1:m:134:GLN:NE2	1:s:153:ALA:HA	2.32	0.44
1:m:262:LYS:NZ	1:n:91:SER:HB2	2.33	0.44
1:m:274:HIS:HD2	1:m:387:GLN:HB3	1.82	0.44
1:n:274:HIS:HD2	1:n:387:GLN:HB3	1.82	0.44
1:n:345:ARG:HB2	1:n:379:ASP:OD1	2.17	0.44
1:p:60:ARG:HG3	1:p:177:MET:HG3	1.99	0.44
1:p:316:MET:HA	1:p:336:GLY:HA2	1.99	0.44
1:q:206:ASN:HD21	1:q:324:THR:HA	1.82	0.44
1:q:274:HIS:HD2	1:q:387:GLN:HB3	1.82	0.44
1:q:316:MET:HA	1:q:336:GLY:HA2	1.99	0.44
1:t:73:ARG:HD2	1:y:514:LYS:O	2.16	0.44
1:u:127:HIS:CD2	1:u:238:THR:HG22	2.47	0.44
1:v:316:MET:HA	1:v:336:GLY:HA2	1.99	0.44
1:v:500:ILE:HD12	1:w:210:LYS:HD2	1.99	0.44
1:y:137:GLN:NE2	1:y:463:LEU:HD11	2.31	0.44
1:y:378:ARG:HA	1:y:378:ARG:HD2	1.83	0.44
1:z:328:SER:OG	1:z:329:GLY:N	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:60:ARG:HG3	1:1:177:MET:HG3	1.99	0.44
1:1:85:LYS:HD2	1:1:311:ASP:HB2	1.98	0.44
1:4:60:ARG:HG3	1:4:177:MET:HG3	1.99	0.44
1:4:455:SER:OG	1:4:457:ASN:O	2.28	0.44
1:5:60:ARG:HG3	1:5:177:MET:HG3	1.99	0.44
1:5:316:MET:HA	1:5:336:GLY:HA2	1.99	0.44
1:6:85:LYS:HD2	1:6:311:ASP:HB2	1.98	0.44
1:7:127:HIS:CD2	1:7:238:THR:HG22	2.47	0.44
1:8:206:ASN:HD21	1:8:324:THR:HA	1.82	0.44
1:8:455:SER:OG	1:8:457:ASN:O	2.28	0.44
1:A:274:HIS:HD2	1:A:387:GLN:HB3	1.82	0.44
1:B:85:LYS:HD2	1:B:311:ASP:HB2	1.98	0.44
1:D:185:TRP:CH2	1:D:187:LEU:HD23	2.51	0.44
1:J:134:GLN:NE2	1:a:153:ALA:HA	2.32	0.44
1:N:270:TYR:O	1:P:350:GLU:HG2	2.16	0.44
1:O:134:GLN:NE2	1:P:153:ALA:HA	2.33	0.44
1:O:153:ALA:HA	1:d:134:GLN:NE2	2.32	0.44
1:S:500:ILE:HD12	1:d:210:LYS:HD2	2.00	0.44
1:U:150:ASP:OD1	1:U:150:ASP:N	2.50	0.44
1:U:345:ARG:HB2	1:U:379:ASP:OD1	2.17	0.44
1:Z:206:ASN:HD21	1:Z:324:THR:HA	1.82	0.44
1:b:316:MET:HA	1:b:336:GLY:HA2	1.99	0.44
1:f:206:ASN:HD21	1:f:324:THR:HA	1.82	0.44
1:h:500:ILE:HD12	1:i:210:LYS:HD2	1.98	0.44
1:i:60:ARG:HG3	1:i:177:MET:HG3	1.99	0.44
1:i:270:TYR:O	1:j:350:GLU:HG2	2.16	0.44
1:i:345:ARG:HB2	1:i:379:ASP:OD1	2.17	0.44
1:j:500:ILE:HD12	1:x:210:LYS:HD2	1.99	0.44
1:l:316:MET:HA	1:l:336:GLY:HA2	1.99	0.44
1:n:210:LYS:HD2	1:r:500:ILE:HD12	2.00	0.44
1:r:85:LYS:HD2	1:r:311:ASP:HB2	1.98	0.44
1:u:328:SER:OG	1:u:329:GLY:N	2.50	0.44
1:v:274:HIS:HD2	1:v:387:GLN:HB3	1.82	0.44
1:w:270:TYR:O	1:x:350:GLU:HG2	2.17	0.44
1:z:91:SER:HB2	1:2:262:LYS:NZ	2.32	0.44
1:2:134:GLN:NE2	1:3:153:ALA:HA	2.32	0.44
1:2:150:ASP:OD1	1:2:150:ASP:N	2.50	0.44
1:B:60:ARG:HG3	1:B:177:MET:HG3	1.99	0.44
1:C:150:ASP:N	1:C:150:ASP:OD1	2.50	0.44
1:C:378:ARG:HA	1:C:378:ARG:HD2	1.83	0.44
1:D:262:LYS:NZ	1:N:91:SER:HB2	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:91:SER:HB2	1:F:262:LYS:NZ	2.32	0.44
1:G:179:GLU:OE2	1:G:411:ARG:NH1	2.46	0.44
1:H:316:MET:HA	1:H:336:GLY:HA2	1.99	0.44
1:J:150:ASP:OD1	1:J:150:ASP:N	2.50	0.44
1:K:60:ARG:HG3	1:K:177:MET:HG3	1.99	0.44
1:K:134:GLN:NE2	1:L:153:ALA:HA	2.32	0.44
1:K:274:HIS:HD2	1:K:387:GLN:HB3	1.82	0.44
1:M:85:LYS:HD2	1:M:311:ASP:HB2	1.98	0.44
1:N:262:LYS:NZ	1:P:91:SER:HB2	2.32	0.44
1:N:345:ARG:HB2	1:N:379:ASP:OD1	2.17	0.44
1:R:345:ARG:HD3	1:S:320:ASN:O	2.18	0.44
1:S:274:HIS:HD2	1:S:387:GLN:HB3	1.82	0.44
1:T:262:LYS:NZ	1:d:91:SER:HB2	2.33	0.44
1:T:274:HIS:HD2	1:T:387:GLN:HB3	1.82	0.44
1:V:316:MET:HA	1:V:336:GLY:HA2	1.99	0.44
1:X:514:LYS:O	1:Y:73:ARG:HD2	2.17	0.44
1:Y:134:GLN:NE2	1:4:153:ALA:HA	2.31	0.44
1:c:270:TYR:O	1:o:350:GLU:HG2	2.17	0.44
1:f:316:MET:HA	1:f:336:GLY:HA2	1.99	0.44
1:g:150:ASP:OD1	1:g:150:ASP:N	2.50	0.44
1:j:127:HIS:CD2	1:j:238:THR:HG22	2.47	0.44
1:l:328:SER:OG	1:l:329:GLY:N	2.50	0.44
1:n:60:ARG:HG3	1:n:177:MET:HG3	1.99	0.44
1:o:179:GLU:OE2	1:o:411:ARG:NH1	2.46	0.44
1:o:316:MET:HA	1:o:336:GLY:HA2	1.99	0.44
1:r:153:ALA:HA	1:x:134:GLN:NE2	2.32	0.44
1:s:150:ASP:N	1:s:150:ASP:OD1	2.50	0.44
1:s:345:ARG:HB2	1:s:379:ASP:OD1	2.17	0.44
1:t:179:GLU:OE2	1:t:411:ARG:NH1	2.46	0.44
1:t:210:LYS:HD2	1:y:500:ILE:HD12	1.99	0.44
1:w:206:ASN:HD21	1:w:324:THR:HA	1.82	0.44
1:1:345:ARG:HB2	1:1:379:ASP:OD1	2.17	0.44
1:2:316:MET:HA	1:2:336:GLY:HA2	1.99	0.44
1:B:91:SER:HB2	1:L:262:LYS:NZ	2.33	0.44
1:B:345:ARG:HB2	1:B:379:ASP:OD1	2.17	0.44
1:C:73:ARG:HD2	1:D:514:LYS:O	2.17	0.44
1:D:423:ASP:OD2	1:P:531:LYS:NZ	2.29	0.44
1:E:91:SER:HB2	1:F:262:LYS:HZ1	1.82	0.44
1:E:262:LYS:NZ	1:Q:91:SER:HB2	2.32	0.44
1:F:316:MET:HA	1:F:336:GLY:HA2	1.99	0.44
1:F:514:LYS:O	1:G:73:ARG:HD2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:134:GLN:NE2	1:W:153:ALA:HA	2.33	0.44
1:L:150:ASP:OD1	1:L:150:ASP:N	2.50	0.44
1:M:500:ILE:HD12	1:N:210:LYS:HD2	1.98	0.44
1:S:60:ARG:HG3	1:S:177:MET:HG3	1.98	0.44
1:X:320:ASN:O	1:e:345:ARG:HD3	2.18	0.44
1:Z:316:MET:HA	1:Z:336:GLY:HA2	1.99	0.44
1:Z:455:SER:OG	1:Z:457:ASN:O	2.28	0.44
1:a:150:ASP:N	1:a:150:ASP:OD1	2.50	0.44
1:b:95:SER:HB2	1:b:187:LEU:HD13	2.00	0.44
1:c:206:ASN:HD21	1:c:324:THR:HA	1.82	0.44
1:d:60:ARG:HG3	1:d:177:MET:HG3	1.99	0.44
1:d:185:TRP:CH2	1:d:187:LEU:HD23	2.51	0.44
1:f:91:SER:HB2	1:g:262:LYS:NZ	2.33	0.44
1:l:153:ALA:HA	1:n:134:GLN:NE2	2.33	0.44
1:n:185:TRP:CH2	1:n:187:LEU:HD23	2.51	0.44
1:p:345:ARG:HB2	1:p:379:ASP:OD1	2.17	0.44
1:q:95:SER:HB2	1:q:187:LEU:HD13	2.00	0.44
1:q:345:ARG:HD3	1:r:320:ASN:O	2.18	0.44
1:r:210:LYS:HD2	1:x:500:ILE:HD12	2.00	0.44
1:u:274:HIS:HD2	1:u:387:GLN:HB3	1.82	0.44
1:w:345:ARG:HB2	1:w:379:ASP:OD1	2.17	0.44
1:x:262:LYS:NZ	1:y:91:SER:HB2	2.33	0.44
1:y:316:MET:HA	1:y:336:GLY:HA2	1.99	0.44
1:z:150:ASP:OD1	1:z:150:ASP:N	2.50	0.44
1:z:262:LYS:NZ	1:1:91:SER:HB2	2.33	0.44
1:z:274:HIS:HD2	1:z:387:GLN:HB3	1.82	0.44
1:1:274:HIS:HD2	1:1:387:GLN:HB3	1.82	0.44
1:1:316:MET:HA	1:1:336:GLY:HA2	1.99	0.44
1:3:316:MET:HA	1:3:336:GLY:HA2	1.99	0.44
1:3:500:ILE:HD12	1:8:210:LYS:HD2	1.99	0.44
1:4:85:LYS:HD2	1:4:311:ASP:HB2	1.98	0.44
1:5:210:LYS:HD2	1:8:500:ILE:HD12	1.99	0.44
1:5:455:SER:OG	1:5:457:ASN:O	2.28	0.44
1:8:85:LYS:HD2	1:8:311:ASP:HB2	1.98	0.44
1:D:91:SER:HB2	1:P:262:LYS:NZ	2.33	0.44
1:D:153:ALA:HA	1:E:134:GLN:NE2	2.33	0.44
1:D:206:ASN:HD21	1:D:324:THR:HA	1.82	0.44
1:E:345:ARG:HB2	1:E:379:ASP:OD1	2.17	0.44
1:F:150:ASP:N	1:F:150:ASP:OD1	2.50	0.44
1:H:91:SER:HB2	1:Y:262:LYS:NZ	2.32	0.44
1:H:134:GLN:NE2	1:I:153:ALA:HA	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:274:HIS:HD2	1:I:387:GLN:HB3	1.82	0.44
1:I:316:MET:HA	1:I:336:GLY:HA2	1.99	0.44
1:K:316:MET:HA	1:K:336:GLY:HA2	1.99	0.44
1:L:274:HIS:HD2	1:L:387:GLN:HB3	1.82	0.44
1:M:274:HIS:HD2	1:M:387:GLN:HB3	1.82	0.44
1:M:328:SER:OG	1:M:329:GLY:N	2.50	0.44
1:M:345:ARG:HB2	1:M:379:ASP:OD1	2.17	0.44
1:P:85:LYS:HD2	1:P:311:ASP:HB2	1.98	0.44
1:Q:127:HIS:CD2	1:Q:238:THR:HG22	2.47	0.44
1:Q:500:ILE:HD12	1:S:210:LYS:HD2	2.00	0.44
1:R:95:SER:HB2	1:R:187:LEU:HD13	2.00	0.44
1:V:320:ASN:O	1:X:345:ARG:HD3	2.18	0.44
1:X:350:GLU:HG2	1:e:270:TYR:O	2.17	0.44
1:Y:39:SER:N	1:4:233:GLU:OE2	2.48	0.44
1:Z:85:LYS:HD2	1:Z:311:ASP:HB2	1.98	0.44
1:c:153:ALA:HA	1:s:134:GLN:NE2	2.33	0.44
1:c:345:ARG:HD3	1:o:320:ASN:O	2.18	0.44
1:e:206:ASN:HD21	1:e:324:THR:HA	1.82	0.44
1:f:95:SER:HB2	1:f:187:LEU:HD13	2.00	0.44
1:f:270:TYR:O	1:h:350:GLU:HG2	2.17	0.44
1:g:378:ARG:HA	1:g:378:ARG:HD2	1.83	0.44
1:h:60:ARG:HG3	1:h:177:MET:HG3	1.99	0.44
1:h:85:LYS:HD2	1:h:311:ASP:HB2	1.98	0.44
1:h:274:HIS:HD2	1:h:387:GLN:HB3	1.82	0.44
1:h:328:SER:OG	1:h:329:GLY:N	2.50	0.44
1:h:345:ARG:HB2	1:h:379:ASP:OD1	2.17	0.44
1:j:85:LYS:HD2	1:j:311:ASP:HB2	1.98	0.44
1:j:153:ALA:HA	1:l:134:GLN:NE2	2.33	0.44
1:m:328:SER:OG	1:m:329:GLY:N	2.50	0.44
1:o:60:ARG:HG3	1:o:177:MET:HG3	1.99	0.44
1:o:514:LYS:O	1:7:73:ARG:HD2	2.17	0.44
1:p:127:HIS:CD2	1:p:238:THR:HG22	2.47	0.44
1:p:328:SER:OG	1:p:329:GLY:N	2.50	0.44
1:p:500:ILE:HD12	1:q:210:LYS:HD2	2.00	0.44
1:q:500:ILE:HD12	1:y:210:LYS:HD2	1.99	0.44
1:r:60:ARG:HG3	1:r:177:MET:HG3	1.99	0.44
1:r:274:HIS:HD2	1:r:387:GLN:HB3	1.82	0.44
1:u:153:ALA:HA	1:5:134:GLN:NE2	2.33	0.44
1:u:316:MET:HA	1:u:336:GLY:HA2	1.99	0.44
1:w:262:LYS:NZ	1:x:91:SER:HB2	2.32	0.44
1:x:274:HIS:HD2	1:x:387:GLN:HB3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:150:ASP:OD1	1:y:150:ASP:N	2.50	0.44
1:2:95:SER:HB2	1:2:187:LEU:HD13	2.00	0.44
1:3:150:ASP:N	1:3:150:ASP:OD1	2.50	0.44
1:5:91:SER:HB2	1:7:262:LYS:NZ	2.32	0.44
1:8:95:SER:HB2	1:8:187:LEU:HD13	2.00	0.44
1:B:274:HIS:HD2	1:B:387:GLN:HB3	1.82	0.44
1:B:316:MET:HA	1:B:336:GLY:HA2	2.00	0.44
1:C:229:LEU:HA	1:C:233:GLU:OE1	2.18	0.44
1:C:274:HIS:HD2	1:C:387:GLN:HB3	1.82	0.44
1:H:95:SER:HB2	1:H:187:LEU:HD13	2.00	0.44
1:H:345:ARG:HB2	1:H:379:ASP:OD1	2.17	0.44
1:I:206:ASN:HD21	1:I:324:THR:HA	1.82	0.44
1:J:95:SER:HB2	1:J:187:LEU:HD13	2.00	0.44
1:K:85:LYS:HD2	1:K:311:ASP:HB2	1.98	0.44
1:L:134:GLN:NE2	1:b:153:ALA:HA	2.33	0.44
1:M:60:ARG:HG3	1:M:177:MET:HG3	1.99	0.44
1:M:229:LEU:HA	1:M:233:GLU:OE1	2.18	0.44
1:N:95:SER:HB2	1:N:187:LEU:HD13	2.00	0.44
1:O:274:HIS:HD2	1:O:387:GLN:HB3	1.82	0.44
1:R:153:ALA:HA	1:V:134:GLN:NE2	2.32	0.44
1:T:91:SER:HB2	1:l:262:LYS:NZ	2.33	0.44
1:T:328:SER:OG	1:T:329:GLY:N	2.50	0.44
1:U:134:GLN:NE2	1:e:153:ALA:HA	2.33	0.44
1:V:328:SER:OG	1:V:329:GLY:N	2.50	0.44
1:V:345:ARG:HB2	1:V:379:ASP:OD1	2.17	0.44
1:Z:95:SER:HB2	1:Z:187:LEU:HD13	2.00	0.44
1:Z:153:ALA:HA	1:a:134:GLN:NE2	2.32	0.44
1:Z:210:LYS:HD2	1:a:500:ILE:HD12	2.00	0.44
1:a:262:LYS:NZ	1:8:91:SER:HB2	2.32	0.44
1:a:345:ARG:HB2	1:a:379:ASP:OD1	2.17	0.44
1:f:210:LYS:HD2	1:z:500:ILE:HD12	1.99	0.44
1:g:134:GLN:NE2	1:1:153:ALA:HA	2.32	0.44
1:g:153:ALA:HA	1:k:134:GLN:NE2	2.32	0.44
1:g:206:ASN:HD21	1:g:324:THR:HA	1.82	0.44
1:g:274:HIS:HD2	1:g:387:GLN:HB3	1.82	0.44
1:h:229:LEU:HA	1:h:233:GLU:OE1	2.18	0.44
1:i:91:SER:HB2	1:k:262:LYS:NZ	2.33	0.44
1:i:328:SER:OG	1:i:329:GLY:N	2.50	0.44
1:j:345:ARG:HD3	1:k:320:ASN:O	2.18	0.44
1:k:206:ASN:HD21	1:k:324:THR:HA	1.82	0.44
1:l:274:HIS:HD2	1:l:387:GLN:HB3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:150:ASP:OD1	1:m:150:ASP:N	2.50	0.44
1:m:500:ILE:HD12	1:s:210:LYS:HD2	2.00	0.44
1:o:345:ARG:HD3	1:p:320:ASN:O	2.18	0.44
1:q:345:ARG:HB2	1:q:379:ASP:OD1	2.17	0.44
1:r:455:SER:OG	1:r:457:ASN:O	2.28	0.44
1:t:134:GLN:NE2	1:6:153:ALA:HA	2.33	0.44
1:t:262:LYS:NZ	1:u:91:SER:HB2	2.32	0.44
1:t:345:ARG:HB2	1:t:379:ASP:OD1	2.17	0.44
1:z:345:ARG:HB2	1:z:379:ASP:OD1	2.17	0.44
1:2:455:SER:OG	1:2:457:ASN:O	2.28	0.44
1:4:316:MET:HA	1:4:336:GLY:HA2	1.99	0.44
1:5:345:ARG:HB2	1:5:379:ASP:OD1	2.17	0.44
1:8:316:MET:HA	1:8:336:GLY:HA2	1.99	0.44
1:A:134:GLN:NE2	1:E:153:ALA:HA	2.32	0.44
1:D:320:ASN:O	1:P:345:ARG:HD3	2.18	0.44
1:E:316:MET:HA	1:E:336:GLY:HA2	1.99	0.44
1:G:262:LYS:NZ	1:I:91:SER:HB2	2.32	0.44
1:H:210:LYS:HD2	1:Z:500:ILE:HD12	1.99	0.44
1:H:455:SER:OG	1:H:457:ASN:O	2.28	0.44
1:J:514:LYS:O	1:a:73:ARG:HD2	2.17	0.44
1:L:500:ILE:HD12	1:b:210:LYS:HD2	2.00	0.44
1:M:350:GLU:HG2	1:b:270:TYR:O	2.17	0.44
1:N:328:SER:OG	1:N:329:GLY:N	2.50	0.44
1:O:91:SER:HB2	1:n:262:LYS:NZ	2.32	0.44
1:O:262:LYS:NZ	1:m:91:SER:HB2	2.33	0.44
1:Q:274:HIS:HD2	1:Q:387:GLN:HB3	1.82	0.44
1:Q:345:ARG:HB2	1:Q:379:ASP:OD1	2.17	0.44
1:R:345:ARG:HB2	1:R:379:ASP:OD1	2.17	0.44
1:T:95:SER:HB2	1:T:187:LEU:HD13	2.00	0.44
1:T:150:ASP:N	1:T:150:ASP:OD1	2.50	0.44
1:T:500:ILE:HD12	1:U:210:LYS:HD2	2.00	0.44
1:X:60:ARG:HG3	1:X:177:MET:HG3	1.99	0.44
1:X:206:ASN:HD21	1:X:324:THR:HA	1.82	0.44
1:a:316:MET:HA	1:a:336:GLY:HA2	1.99	0.44
1:b:229:LEU:HA	1:b:233:GLU:OE1	2.18	0.44
1:c:91:SER:HB2	1:p:262:LYS:NZ	2.33	0.44
1:c:274:HIS:HD2	1:c:387:GLN:HB3	1.82	0.44
1:e:274:HIS:HD2	1:e:387:GLN:HB3	1.82	0.44
1:e:500:ILE:HD12	1:h:210:LYS:HD2	1.99	0.44
1:f:153:ALA:HA	1:z:134:GLN:NE2	2.33	0.44
1:f:229:LEU:HA	1:f:233:GLU:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:229:LEU:HA	1:g:233:GLU:OE1	2.18	0.44
1:g:316:MET:HA	1:g:336:GLY:HA2	1.99	0.44
1:i:95:SER:HB2	1:i:187:LEU:HD13	2.00	0.44
1:m:95:SER:HB2	1:m:187:LEU:HD13	2.00	0.44
1:o:206:ASN:HD21	1:o:324:THR:HA	1.82	0.44
1:o:328:SER:OG	1:o:329:GLY:N	2.50	0.44
1:u:206:ASN:HD21	1:u:324:THR:HA	1.82	0.44
1:w:95:SER:HB2	1:w:187:LEU:HD13	2.00	0.44
1:3:345:ARG:HB2	1:3:379:ASP:OD1	2.17	0.44
1:4:95:SER:HB2	1:4:187:LEU:HD13	2.00	0.44
1:5:95:SER:HB2	1:5:187:LEU:HD13	2.00	0.44
1:6:206:ASN:HD21	1:6:324:THR:HA	1.82	0.44
1:6:229:LEU:HA	1:6:233:GLU:OE1	2.18	0.44
1:7:95:SER:HB2	1:7:187:LEU:HD13	2.00	0.44
1:C:206:ASN:HD21	1:C:324:THR:HA	1.82	0.44
1:C:316:MET:HA	1:C:336:GLY:HA2	1.99	0.44
1:E:229:LEU:HA	1:E:233:GLU:OE1	2.18	0.44
1:I:95:SER:HB2	1:I:187:LEU:HD13	2.00	0.44
1:I:229:LEU:HA	1:I:233:GLU:OE1	2.18	0.44
1:K:95:SER:HB2	1:K:187:LEU:HD13	2.00	0.44
1:K:206:ASN:HD21	1:K:324:THR:HA	1.82	0.44
1:K:423:ASP:OD2	1:8:531:LYS:NZ	2.29	0.44
1:L:345:ARG:HB2	1:L:379:ASP:OD1	2.17	0.44
1:M:210:LYS:HD2	1:c:500:ILE:HD12	1.99	0.44
1:M:514:LYS:O	1:N:73:ARG:HD2	2.17	0.44
1:O:95:SER:HB2	1:O:187:LEU:HD13	2.00	0.44
1:P:134:GLN:NE2	1:Q:153:ALA:HA	2.33	0.44
1:P:241:PHE:HB3	1:P:243:CYS:SG	2.58	0.44
1:R:210:LYS:HD2	1:V:500:ILE:HD12	2.00	0.44
1:R:320:ASN:O	1:U:345:ARG:HD3	2.18	0.44
1:S:150:ASP:N	1:S:150:ASP:OD1	2.50	0.44
1:S:229:LEU:HA	1:S:233:GLU:OE1	2.18	0.44
1:V:262:LYS:NZ	1:e:91:SER:HB2	2.33	0.44
1:W:206:ASN:HD21	1:W:324:THR:HA	1.82	0.44
1:X:500:ILE:HD12	1:Y:210:LYS:HD2	1.98	0.44
1:Y:95:SER:HB2	1:Y:187:LEU:HD13	2.00	0.44
1:Y:316:MET:HA	1:Y:336:GLY:HA2	1.99	0.44
1:Z:91:SER:HB2	1:3:262:LYS:NZ	2.32	0.44
1:c:320:ASN:O	1:p:345:ARG:HD3	2.18	0.44
1:d:262:LYS:NZ	1:l:91:SER:HB2	2.32	0.44
1:k:241:PHE:HB3	1:k:243:CYS:SG	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:95:SER:HB2	1:l:187:LEU:HD13	2.00	0.44
1:l:210:LYS:HD2	1:n:500:ILE:HD12	2.00	0.44
1:o:345:ARG:HB2	1:o:379:ASP:OD1	2.17	0.44
1:o:500:ILE:HD12	1:7:210:LYS:HD2	1.98	0.44
1:r:95:SER:HB2	1:r:187:LEU:HD13	2.00	0.44
1:r:150:ASP:OD1	1:r:150:ASP:N	2.50	0.44
1:r:229:LEU:HA	1:r:233:GLU:OE1	2.18	0.44
1:t:274:HIS:HD2	1:t:387:GLN:HB3	1.82	0.44
1:t:320:ASN:O	1:v:345:ARG:HD3	2.18	0.44
1:u:229:LEU:HA	1:u:233:GLU:OE1	2.18	0.44
1:w:229:LEU:HA	1:w:233:GLU:OE1	2.18	0.44
1:w:316:MET:HA	1:w:336:GLY:HA2	1.99	0.44
1:w:345:ARG:HD3	1:x:320:ASN:O	2.18	0.44
1:x:127:HIS:CD2	1:x:238:THR:HG22	2.47	0.44
1:2:514:LYS:O	1:3:73:ARG:HD2	2.17	0.44
1:3:91:SER:HB2	1:4:262:LYS:NZ	2.32	0.44
1:3:206:ASN:HD21	1:3:324:THR:HA	1.82	0.44
1:3:378:ARG:HA	1:3:378:ARG:HD2	1.83	0.44
1:5:262:LYS:NZ	1:6:91:SER:HB2	2.32	0.44
1:7:316:MET:HA	1:7:336:GLY:HA2	2.00	0.44
1:A:229:LEU:HA	1:A:233:GLU:OE1	2.18	0.44
1:A:345:ARG:HD3	1:G:320:ASN:O	2.18	0.44
1:B:320:ASN:O	1:L:345:ARG:HD3	2.18	0.44
1:C:91:SER:HB2	1:M:262:LYS:NZ	2.33	0.44
1:D:241:PHE:HB3	1:D:243:CYS:SG	2.58	0.44
1:E:320:ASN:O	1:F:345:ARG:HD3	2.18	0.44
1:E:345:ARG:HD3	1:Q:320:ASN:O	2.18	0.44
1:G:274:HIS:HD2	1:G:387:GLN:HB3	1.82	0.44
1:G:345:ARG:HB2	1:G:379:ASP:OD1	2.17	0.44
1:G:345:ARG:HD3	1:I:320:ASN:O	2.18	0.44
1:J:345:ARG:HD3	1:L:320:ASN:O	2.18	0.44
1:K:153:ALA:HA	1:7:134:GLN:NE2	2.32	0.44
1:M:320:ASN:O	1:b:345:ARG:HD3	2.18	0.44
1:N:500:ILE:HD12	1:m:210:LYS:HD2	1.99	0.44
1:O:209:GLU:HG3	1:O:324:THR:HG22	2.00	0.44
1:O:210:LYS:HD2	1:d:500:ILE:HD12	2.00	0.44
1:R:209:GLU:HG3	1:R:324:THR:HG22	2.00	0.44
1:R:229:LEU:HA	1:R:233:GLU:OE1	2.18	0.44
1:S:95:SER:HB2	1:S:187:LEU:HD13	2.00	0.44
1:S:134:GLN:NE2	1:d:153:ALA:HA	2.32	0.44
1:S:241:PHE:HB3	1:S:243:CYS:SG	2.58	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	2.58	0.44
1:U:241:PHE:HB3	1:U:243:CYS:SG	2.58	0.44
1:U:500:ILE:HD12	1:e:210:LYS:HD2	2.00	0.44
1:V:127:HIS:CD2	1:V:238:THR:HG22	2.47	0.44
1:V:345:ARG:HD3	1:e:320:ASN:O	2.18	0.44
1:W:229:LEU:HA	1:W:233:GLU:OE1	2.18	0.44
1:X:241:PHE:HB3	1:X:243:CYS:SG	2.58	0.44
1:X:328:SER:OG	1:X:329:GLY:N	2.50	0.44
1:a:206:ASN:HD21	1:a:324:THR:HA	1.82	0.44
1:c:210:LYS:HD2	1:s:500:ILE:HD12	2.00	0.44
1:c:241:PHE:HB3	1:c:243:CYS:SG	2.58	0.44
1:d:345:ARG:HD3	1:l:320:ASN:O	2.18	0.44
1:e:185:TRP:CH2	1:e:187:LEU:HD23	2.51	0.44
1:g:210:LYS:HD2	1:k:500:ILE:HD12	1.99	0.44
1:g:500:ILE:HD12	1:1:210:LYS:HD2	2.00	0.44
1:j:241:PHE:HB3	1:j:243:CYS:SG	2.58	0.44
1:j:511:HIS:HD2	1:x:218:PHE:HB2	1.83	0.44
1:k:153:ALA:HA	1:w:134:GLN:NE2	2.33	0.44
1:k:316:MET:HA	1:k:336:GLY:HA2	1.99	0.44
1:m:241:PHE:HB3	1:m:243:CYS:SG	2.58	0.44
1:m:316:MET:HA	1:m:336:GLY:HA2	1.99	0.44
1:o:241:PHE:HB3	1:o:243:CYS:SG	2.58	0.44
1:o:262:LYS:NZ	1:p:91:SER:HB2	2.33	0.44
1:p:134:GLN:NE2	1:q:153:ALA:HA	2.32	0.44
1:q:134:GLN:NE2	1:y:153:ALA:HA	2.33	0.44
1:q:229:LEU:HA	1:q:233:GLU:OE1	2.18	0.44
1:s:241:PHE:HB3	1:s:243:CYS:SG	2.58	0.44
1:t:241:PHE:HB3	1:t:243:CYS:SG	2.58	0.44
1:u:95:SER:HB2	1:u:187:LEU:HD13	2.00	0.44
1:x:345:ARG:HB2	1:x:379:ASP:OD1	2.17	0.44
1:x:345:ARG:HD3	1:y:320:ASN:O	2.18	0.44
1:2:274:HIS:HD2	1:2:387:GLN:HB3	1.82	0.44
1:4:206:ASN:HD21	1:4:324:THR:HA	1.82	0.44
1:A:241:PHE:HB3	1:A:243:CYS:SG	2.58	0.43
1:D:316:MET:HA	1:D:336:GLY:HA2	1.99	0.43
1:E:95:SER:HB2	1:E:187:LEU:HD13	2.00	0.43
1:F:229:LEU:HA	1:F:233:GLU:OE1	2.18	0.43
1:G:241:PHE:HB3	1:G:243:CYS:SG	2.58	0.43
1:I:241:PHE:HB3	1:I:243:CYS:SG	2.58	0.43
1:K:320:ASN:HB2	1:K:333:VAL:HG11	2.00	0.43
1:K:320:ASN:O	1:8:345:ARG:HD3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:345:ARG:HD3	1:P:320:ASN:O	2.18	0.43
1:O:320:ASN:O	1:n:345:ARG:HD3	2.18	0.43
1:U:274:HIS:HD2	1:U:387:GLN:HB3	1.82	0.43
1:Y:241:PHE:HB3	1:Y:243:CYS:SG	2.58	0.43
1:Z:241:PHE:HB3	1:Z:243:CYS:SG	2.58	0.43
1:a:241:PHE:HB3	1:a:243:CYS:SG	2.58	0.43
1:a:378:ARG:HA	1:a:378:ARG:HD2	1.83	0.43
1:c:185:TRP:CH2	1:c:187:LEU:HD23	2.51	0.43
1:e:241:PHE:HB3	1:e:243:CYS:SG	2.58	0.43
1:f:345:ARG:HD3	1:h:320:ASN:O	2.18	0.43
1:g:95:SER:HB2	1:g:187:LEU:HD13	2.00	0.43
1:i:229:LEU:HA	1:i:233:GLU:OE1	2.18	0.43
1:j:209:GLU:HG3	1:j:324:THR:HG22	2.00	0.43
1:l:206:ASN:HD21	1:l:324:THR:HA	1.82	0.43
1:n:95:SER:HB2	1:n:187:LEU:HD13	2.00	0.43
1:n:153:ALA:HA	1:r:134:GLN:NE2	2.32	0.43
1:q:209:GLU:HG3	1:q:324:THR:HG22	2.00	0.43
1:q:320:ASN:O	1:s:345:ARG:HD3	2.18	0.43
1:r:241:PHE:HB3	1:r:243:CYS:SG	2.58	0.43
1:t:345:ARG:HD3	1:u:320:ASN:O	2.18	0.43
1:u:241:PHE:HB3	1:u:243:CYS:SG	2.58	0.43
1:v:134:GLN:NE2	1:w:153:ALA:HA	2.33	0.43
1:v:229:LEU:HA	1:v:233:GLU:OE1	2.18	0.43
1:v:241:PHE:HB3	1:v:243:CYS:SG	2.58	0.43
1:y:229:LEU:HA	1:y:233:GLU:OE1	2.18	0.43
1:z:345:ARG:HD3	1:1:320:ASN:O	2.18	0.43
1:1:382:LEU:O	1:1:392:LEU:HD12	2.18	0.43
1:3:241:PHE:HB3	1:3:243:CYS:SG	2.58	0.43
1:A:153:ALA:HA	1:B:134:GLN:NE2	2.33	0.43
1:A:209:GLU:HG3	1:A:324:THR:HG22	2.00	0.43
1:A:262:LYS:HZ1	1:G:91:SER:HB2	1.83	0.43
1:B:382:LEU:O	1:B:392:LEU:HD12	2.18	0.43
1:C:95:SER:HB2	1:C:187:LEU:HD13	2.00	0.43
1:C:345:ARG:HD3	1:b:320:ASN:O	2.18	0.43
1:F:241:PHE:HB3	1:F:243:CYS:SG	2.58	0.43
1:H:320:ASN:O	1:Y:345:ARG:HD3	2.18	0.43
1:H:382:LEU:O	1:H:392:LEU:HD12	2.19	0.43
1:J:455:SER:OG	1:J:457:ASN:O	2.28	0.43
1:K:91:SER:HB2	1:8:262:LYS:NZ	2.33	0.43
1:M:153:ALA:HA	1:c:134:GLN:NE2	2.33	0.43
1:N:229:LEU:HA	1:N:233:GLU:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:316:MET:HA	1:N:336:GLY:HA2	1.99	0.43
1:O:206:ASN:HD21	1:O:324:THR:HA	1.82	0.43
1:O:500:ILE:HD12	1:P:210:LYS:HD2	1.99	0.43
1:T:210:LYS:HD2	1:i:500:ILE:HD12	1.99	0.43
1:U:371:ASN:HB2	1:U:524:TRP:CE3	2.54	0.43
1:V:91:SER:HB2	1:X:262:LYS:NZ	2.33	0.43
1:W:209:GLU:HG3	1:W:324:THR:HG22	2.00	0.43
1:W:320:ASN:HB2	1:W:333:VAL:HG11	2.01	0.43
1:X:274:HIS:HD2	1:X:387:GLN:HB3	1.82	0.43
1:X:345:ARG:HB2	1:X:379:ASP:OD1	2.17	0.43
1:a:98:ASN:ND2	1:a:175:ASP:OD1	2.39	0.43
1:a:328:SER:OG	1:a:329:GLY:N	2.50	0.43
1:b:209:GLU:HG3	1:b:324:THR:HG22	2.00	0.43
1:b:274:HIS:HD2	1:b:387:GLN:HB3	1.82	0.43
1:d:95:SER:HB2	1:d:187:LEU:HD13	2.00	0.43
1:e:134:GLN:NE2	1:h:153:ALA:HA	2.33	0.43
1:f:209:GLU:HG3	1:f:324:THR:HG22	2.00	0.43
1:f:320:ASN:O	1:g:345:ARG:HD3	2.18	0.43
1:h:514:LYS:O	1:i:73:ARG:HD2	2.17	0.43
1:i:345:ARG:HD3	1:j:320:ASN:O	2.18	0.43
1:j:134:GLN:NE2	1:x:153:ALA:HA	2.33	0.43
1:l:209:GLU:HG3	1:l:324:THR:HG22	2.00	0.43
1:n:316:MET:HA	1:n:336:GLY:HA2	1.99	0.43
1:s:274:HIS:HD2	1:s:387:GLN:HB3	1.82	0.43
1:t:91:SER:HB2	1:v:262:LYS:NZ	2.32	0.43
1:u:345:ARG:HD3	1:v:320:ASN:O	2.18	0.43
1:u:382:LEU:O	1:u:392:LEU:HD12	2.19	0.43
1:v:209:GLU:HG3	1:v:324:THR:HG22	2.00	0.43
1:w:91:SER:HB2	1:y:262:LYS:NZ	2.32	0.43
1:y:241:PHE:HB3	1:y:243:CYS:SG	2.58	0.43
1:z:316:MET:HA	1:z:336:GLY:HA2	1.99	0.43
1:z:320:ASN:O	1:2:345:ARG:HD3	2.18	0.43
1:1:320:ASN:HB2	1:1:333:VAL:HG11	2.01	0.43
1:1:379:ASP:OD2	1:2:321:PRO:HA	2.18	0.43
1:2:209:GLU:HG3	1:2:324:THR:HG22	2.00	0.43
1:4:320:ASN:HB2	1:4:333:VAL:HG11	2.01	0.43
1:6:209:GLU:HG3	1:6:324:THR:HG22	2.00	0.43
1:6:316:MET:HA	1:6:336:GLY:HA2	1.99	0.43
1:6:320:ASN:HB2	1:6:333:VAL:HG11	2.01	0.43
1:7:241:PHE:HB3	1:7:243:CYS:SG	2.58	0.43
1:8:150:ASP:N	1:8:150:ASP:OD1	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:382:LEU:O	1:8:392:LEU:HD12	2.19	0.43
1:A:91:SER:HB2	1:I:262:LYS:NZ	2.33	0.43
1:A:320:ASN:O	1:I:345:ARG:HD3	2.18	0.43
1:B:73:ARG:HD2	1:C:514:LYS:O	2.17	0.43
1:B:95:SER:HB2	1:B:187:LEU:HD13	2.00	0.43
1:B:320:ASN:HB2	1:B:333:VAL:HG11	2.01	0.43
1:B:379:ASP:OD2	1:J:321:PRO:HA	2.18	0.43
1:C:488:ARG:HG3	1:b:218:PHE:HB3	2.00	0.43
1:E:423:ASP:OD2	1:F:531:LYS:NZ	2.30	0.43
1:G:229:LEU:HA	1:G:233:GLU:OE1	2.18	0.43
1:G:316:MET:HA	1:G:336:GLY:HA2	1.99	0.43
1:G:320:ASN:HB2	1:G:333:VAL:HG11	2.00	0.43
1:H:209:GLU:HG3	1:H:324:THR:HG22	2.00	0.43
1:H:262:LYS:NZ	1:W:91:SER:HB2	2.33	0.43
1:J:209:GLU:HG3	1:J:324:THR:HG22	2.00	0.43
1:J:274:HIS:HD2	1:J:387:GLN:HB3	1.82	0.43
1:J:320:ASN:HB2	1:J:333:VAL:HG11	2.01	0.43
1:J:500:ILE:HD12	1:a:210:LYS:HD2	2.00	0.43
1:M:95:SER:HB2	1:M:187:LEU:HD13	2.00	0.43
1:M:209:GLU:HG3	1:M:324:THR:HG22	2.01	0.43
1:M:382:LEU:O	1:M:392:LEU:HD12	2.19	0.43
1:P:209:GLU:HG3	1:P:324:THR:HG22	2.01	0.43
1:S:345:ARG:HD3	1:U:320:ASN:O	2.18	0.43
1:T:316:MET:HA	1:T:336:GLY:HA2	1.99	0.43
1:T:382:LEU:O	1:T:392:LEU:HD12	2.19	0.43
1:U:127:HIS:CD2	1:U:238:THR:HG22	2.47	0.43
1:V:210:LYS:HD2	1:W:500:ILE:HD12	1.99	0.43
1:V:382:LEU:O	1:V:392:LEU:HD12	2.19	0.43
1:W:316:MET:HA	1:W:336:GLY:HA2	1.99	0.43
1:W:371:ASN:HB2	1:W:524:TRP:CE3	2.54	0.43
1:W:382:LEU:O	1:W:392:LEU:HD12	2.18	0.43
1:X:153:ALA:HA	1:f:134:GLN:NE2	2.33	0.43
1:Y:320:ASN:HB2	1:Y:333:VAL:HG11	2.01	0.43
1:Z:382:LEU:O	1:Z:392:LEU:HD12	2.19	0.43
1:a:209:GLU:HG3	1:a:324:THR:HG22	2.00	0.43
1:a:345:ARG:HD3	1:8:320:ASN:O	2.18	0.43
1:c:95:SER:HB2	1:c:187:LEU:HD13	2.00	0.43
1:d:316:MET:HA	1:d:336:GLY:HA2	1.99	0.43
1:e:95:SER:HB2	1:e:187:LEU:HD13	2.00	0.43
1:e:229:LEU:HA	1:e:233:GLU:OE1	2.18	0.43
1:h:134:GLN:NE2	1:i:153:ALA:HA	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:382:LEU:O	1:h:392:LEU:HD12	2.19	0.43
1:i:316:MET:HA	1:i:336:GLY:HA2	2.00	0.43
1:j:210:LYS:HD2	1:l:500:ILE:HD12	1.99	0.43
1:j:229:LEU:HA	1:j:233:GLU:OE1	2.18	0.43
1:k:229:LEU:HA	1:k:233:GLU:OE1	2.18	0.43
1:k:382:LEU:O	1:k:392:LEU:HD12	2.19	0.43
1:n:371:ASN:HB2	1:n:524:TRP:CE3	2.54	0.43
1:o:274:HIS:HD2	1:o:387:GLN:HB3	1.82	0.43
1:p:382:LEU:O	1:p:392:LEU:HD12	2.19	0.43
1:s:371:ASN:HB2	1:s:524:TRP:CE3	2.54	0.43
1:t:328:SER:OG	1:t:329:GLY:N	2.50	0.43
1:u:262:LYS:NZ	1:v:91:SER:HB2	2.33	0.43
1:x:95:SER:HB2	1:x:187:LEU:HD13	2.00	0.43
1:1:95:SER:HB2	1:1:187:LEU:HD13	2.00	0.43
1:2:241:PHE:HB3	1:2:243:CYS:SG	2.58	0.43
1:2:320:ASN:HB2	1:2:333:VAL:HG11	2.01	0.43
1:2:371:ASN:HB2	1:2:524:TRP:CE3	2.54	0.43
1:3:95:SER:HB2	1:3:187:LEU:HD13	2.00	0.43
1:3:134:GLN:NE2	1:8:153:ALA:HA	2.33	0.43
1:3:209:GLU:HG3	1:3:324:THR:HG22	2.00	0.43
1:3:328:SER:OG	1:3:329:GLY:N	2.50	0.43
1:4:371:ASN:HB2	1:4:524:TRP:CE3	2.53	0.43
1:5:209:GLU:HG3	1:5:324:THR:HG22	2.00	0.43
1:5:229:LEU:HA	1:5:233:GLU:OE1	2.18	0.43
1:5:320:ASN:O	1:7:345:ARG:HD3	2.18	0.43
1:5:345:ARG:HD3	1:6:320:ASN:O	2.18	0.43
1:5:382:LEU:O	1:5:392:LEU:HD12	2.19	0.43
1:6:241:PHE:HB3	1:6:243:CYS:SG	2.58	0.43
1:6:371:ASN:HB2	1:6:524:TRP:CE3	2.54	0.43
1:6:382:LEU:O	1:6:392:LEU:HD12	2.18	0.43
1:7:229:LEU:HA	1:7:233:GLU:OE1	2.18	0.43
1:7:320:ASN:HB2	1:7:333:VAL:HG11	2.01	0.43
1:8:241:PHE:HB3	1:8:243:CYS:SG	2.58	0.43
1:8:274:HIS:HD2	1:8:387:GLN:HB3	1.82	0.43
1:8:320:ASN:HB2	1:8:333:VAL:HG11	2.01	0.43
1:A:262:LYS:NZ	1:G:91:SER:HB2	2.32	0.43
1:B:488:ARG:HG3	1:J:218:PHE:HB3	2.01	0.43
1:C:241:PHE:HB3	1:C:243:CYS:SG	2.58	0.43
1:D:229:LEU:HA	1:D:233:GLU:OE1	2.18	0.43
1:D:320:ASN:HB2	1:D:333:VAL:HG11	2.00	0.43
1:D:371:ASN:HB2	1:D:524:TRP:CE3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:382:LEU:O	1:D:392:LEU:HD12	2.19	0.43
1:F:134:GLN:NE2	1:G:153:ALA:HA	2.32	0.43
1:F:320:ASN:O	1:Q:345:ARG:HD3	2.18	0.43
1:G:95:SER:HB2	1:G:187:LEU:HD13	2.00	0.43
1:H:150:ASP:N	1:H:150:ASP:OD1	2.50	0.43
1:H:229:LEU:HA	1:H:233:GLU:OE1	2.18	0.43
1:H:345:ARG:HD3	1:W:320:ASN:O	2.18	0.43
1:H:371:ASN:HB2	1:H:524:TRP:CE3	2.54	0.43
1:I:371:ASN:HB2	1:I:524:TRP:CE3	2.54	0.43
1:I:382:LEU:O	1:I:392:LEU:HD12	2.19	0.43
1:J:371:ASN:HB2	1:J:524:TRP:CE3	2.54	0.43
1:K:210:LYS:HD2	1:7:500:ILE:HD12	1.99	0.43
1:K:371:ASN:HB2	1:K:524:TRP:CE3	2.54	0.43
1:L:316:MET:HA	1:L:336:GLY:HA2	1.99	0.43
1:M:134:GLN:NE2	1:N:153:ALA:HA	2.32	0.43
1:M:316:MET:HA	1:M:336:GLY:HA2	1.99	0.43
1:N:150:ASP:OD1	1:N:150:ASP:N	2.50	0.43
1:P:229:LEU:HA	1:P:233:GLU:OE1	2.18	0.43
1:P:316:MET:HA	1:P:336:GLY:HA2	1.99	0.43
1:P:320:ASN:HB2	1:P:333:VAL:HG11	2.01	0.43
1:P:382:LEU:O	1:P:392:LEU:HD12	2.19	0.43
1:Q:229:LEU:HA	1:Q:233:GLU:OE1	2.18	0.43
1:R:379:ASP:OD2	1:S:321:PRO:HA	2.18	0.43
1:U:229:LEU:HA	1:U:233:GLU:OE1	2.18	0.43
1:V:241:PHE:HB3	1:V:243:CYS:SG	2.58	0.43
1:W:241:PHE:HB3	1:W:243:CYS:SG	2.58	0.43
1:W:345:ARG:HD3	1:Y:320:ASN:O	2.18	0.43
1:X:382:LEU:O	1:X:392:LEU:HD12	2.19	0.43
1:Y:371:ASN:HB2	1:Y:524:TRP:CE3	2.54	0.43
1:Y:500:ILE:HD12	1:4:210:LYS:HD2	1.99	0.43
1:Z:150:ASP:OD1	1:Z:150:ASP:N	2.50	0.43
1:Z:320:ASN:O	1:3:345:ARG:HD3	2.18	0.43
1:Z:320:ASN:HB2	1:Z:333:VAL:HG11	2.01	0.43
1:a:95:SER:HB2	1:a:187:LEU:HD13	2.00	0.43
1:b:134:GLN:NE2	1:o:153:ALA:HA	2.33	0.43
1:b:241:PHE:HB3	1:b:243:CYS:SG	2.58	0.43
1:b:371:ASN:HB2	1:b:524:TRP:CE3	2.54	0.43
1:c:209:GLU:HG3	1:c:324:THR:HG22	2.00	0.43
1:c:229:LEU:HA	1:c:233:GLU:OE1	2.18	0.43
1:d:371:ASN:HB2	1:d:524:TRP:CE3	2.54	0.43
1:e:209:GLU:HG3	1:e:324:THR:HG22	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:179:GLU:OE2	1:f:411:ARG:NH1	2.46	0.43
1:f:274:HIS:HD2	1:f:387:GLN:HB3	1.82	0.43
1:h:95:SER:HB2	1:h:187:LEU:HD13	2.00	0.43
1:h:209:GLU:HG3	1:h:324:THR:HG22	2.01	0.43
1:h:371:ASN:HB2	1:h:524:TRP:CE3	2.53	0.43
1:i:150:ASP:OD1	1:i:150:ASP:N	2.50	0.43
1:j:150:ASP:OD1	1:j:150:ASP:N	2.50	0.43
1:j:316:MET:HA	1:j:336:GLY:HA2	1.99	0.43
1:j:382:LEU:O	1:j:392:LEU:HD12	2.19	0.43
1:k:371:ASN:HB2	1:k:524:TRP:CE3	2.54	0.43
1:l:455:SER:OG	1:l:457:ASN:O	2.28	0.43
1:m:371:ASN:HB2	1:m:524:TRP:CE3	2.53	0.43
1:m:382:LEU:O	1:m:392:LEU:HD12	2.19	0.43
1:o:382:LEU:O	1:o:392:LEU:HD12	2.19	0.43
1:p:210:LYS:HD2	1:6:500:ILE:HD12	1.99	0.43
1:p:241:PHE:HB3	1:p:243:CYS:SG	2.58	0.43
1:q:241:PHE:HB3	1:q:243:CYS:SG	2.58	0.43
1:q:379:ASP:OD2	1:r:321:PRO:HA	2.18	0.43
1:r:127:HIS:CD2	1:r:238:THR:HG22	2.47	0.43
1:s:229:LEU:HA	1:s:233:GLU:OE1	2.18	0.43
1:t:229:LEU:HA	1:t:233:GLU:OE1	2.18	0.43
1:t:316:MET:HA	1:t:336:GLY:HA2	1.99	0.43
1:t:320:ASN:HB2	1:t:333:VAL:HG11	2.01	0.43
1:w:320:ASN:O	1:y:345:ARG:HD3	2.18	0.43
1:x:229:LEU:HA	1:x:233:GLU:OE1	2.18	0.43
1:1:488:ARG:HG3	1:2:218:PHE:HB3	2.01	0.43
1:3:371:ASN:HB2	1:3:524:TRP:CE3	2.54	0.43
1:5:150:ASP:OD1	1:5:150:ASP:N	2.50	0.43
1:6:274:HIS:HD2	1:6:387:GLN:HB3	1.82	0.43
1:6:455:SER:OG	1:6:457:ASN:O	2.28	0.43
1:7:209:GLU:HG3	1:7:324:THR:HG22	2.00	0.43
1:A:95:SER:HB2	1:A:187:LEU:HD13	2.00	0.43
1:A:127:HIS:CD2	1:A:238:THR:HG22	2.47	0.43
1:A:382:LEU:O	1:A:392:LEU:HD12	2.19	0.43
1:B:229:LEU:HA	1:B:233:GLU:OE1	2.18	0.43
1:E:371:ASN:HB2	1:E:524:TRP:CE3	2.54	0.43
1:F:153:ALA:HA	1:R:134:GLN:NE2	2.33	0.43
1:F:328:SER:OG	1:F:329:GLY:N	2.50	0.43
1:F:382:LEU:O	1:F:392:LEU:HD12	2.19	0.43
1:G:206:ASN:HD21	1:G:324:THR:HA	1.82	0.43
1:G:328:SER:OG	1:G:329:GLY:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:241:PHE:HB3	1:J:243:CYS:SG	2.58	0.43
1:J:262:LYS:HZ1	1:L:91:SER:HB2	1.83	0.43
1:K:150:ASP:OD1	1:K:150:ASP:N	2.50	0.43
1:K:229:LEU:HA	1:K:233:GLU:OE1	2.18	0.43
1:K:241:PHE:HB3	1:K:243:CYS:SG	2.58	0.43
1:K:345:ARG:HD3	1:a:320:ASN:O	2.18	0.43
1:N:371:ASN:HB2	1:N:524:TRP:CE3	2.54	0.43
1:O:229:LEU:HA	1:O:233:GLU:OE1	2.18	0.43
1:O:241:PHE:HB3	1:O:243:CYS:SG	2.58	0.43
1:O:511:HIS:HD2	1:P:218:PHE:HB2	1.83	0.43
1:P:95:SER:HB2	1:P:187:LEU:HD13	2.00	0.43
1:P:150:ASP:OD1	1:P:150:ASP:N	2.50	0.43
1:Q:95:SER:HB2	1:Q:187:LEU:HD13	2.00	0.43
1:R:241:PHE:HB3	1:R:243:CYS:SG	2.58	0.43
1:R:488:ARG:HG3	1:S:218:PHE:HB3	2.00	0.43
1:T:371:ASN:HB2	1:T:524:TRP:CE3	2.54	0.43
1:V:153:ALA:HA	1:W:134:GLN:NE2	2.32	0.43
1:W:274:HIS:HD2	1:W:387:GLN:HB3	1.82	0.43
1:X:229:LEU:HA	1:X:233:GLU:OE1	2.18	0.43
1:Y:209:GLU:HG3	1:Y:324:THR:HG22	2.00	0.43
1:Y:229:LEU:HA	1:Y:233:GLU:OE1	2.18	0.43
1:f:371:ASN:HB2	1:f:524:TRP:CE3	2.54	0.43
1:g:241:PHE:HB3	1:g:243:CYS:SG	2.58	0.43
1:j:320:ASN:HB2	1:j:333:VAL:HG11	2.01	0.43
1:k:320:ASN:HB2	1:k:333:VAL:HG11	2.01	0.43
1:l:229:LEU:HA	1:l:233:GLU:OE1	2.18	0.43
1:p:95:SER:HB2	1:p:187:LEU:HD13	2.00	0.43
1:p:153:ALA:HA	1:6:134:GLN:NE2	2.32	0.43
1:r:320:ASN:HB2	1:r:333:VAL:HG11	2.01	0.43
1:r:345:ARG:HD3	1:s:320:ASN:O	2.18	0.43
1:t:95:SER:HB2	1:t:187:LEU:HD13	2.00	0.43
1:t:206:ASN:HD21	1:t:324:THR:HA	1.82	0.43
1:u:179:GLU:OE2	1:u:411:ARG:NH1	2.46	0.43
1:u:371:ASN:HB2	1:u:524:TRP:CE3	2.54	0.43
1:v:95:SER:HB2	1:v:187:LEU:HD13	2.00	0.43
1:v:153:ALA:HA	1:1:134:GLN:NE2	2.33	0.43
1:v:382:LEU:O	1:v:392:LEU:HD12	2.19	0.43
1:w:371:ASN:HB2	1:w:524:TRP:CE3	2.54	0.43
1:y:328:SER:OG	1:y:329:GLY:N	2.50	0.43
1:1:229:LEU:HA	1:1:233:GLU:OE1	2.18	0.43
1:4:150:ASP:OD1	1:4:150:ASP:N	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:229:LEU:HA	1:4:233:GLU:OE1	2.18	0.43
1:5:371:ASN:HB2	1:5:524:TRP:CE3	2.54	0.43
1:6:345:ARG:HD3	1:7:320:ASN:O	2.19	0.43
1:7:371:ASN:HB2	1:7:524:TRP:CE3	2.54	0.43
1:A:150:ASP:OD1	1:A:150:ASP:N	2.50	0.43
1:B:371:ASN:HB2	1:B:524:TRP:CE3	2.54	0.43
1:F:95:SER:HB2	1:F:187:LEU:HD13	2.00	0.43
1:I:134:GLN:NE2	1:J:153:ALA:HA	2.32	0.43
1:K:262:LYS:NZ	1:a:91:SER:HB2	2.33	0.43
1:K:321:PRO:HA	1:8:379:ASP:OD2	2.19	0.43
1:N:320:ASN:HB2	1:N:333:VAL:HG11	2.01	0.43
1:N:382:LEU:O	1:N:392:LEU:HD12	2.19	0.43
1:R:91:SER:HB2	1:U:262:LYS:NZ	2.33	0.43
1:S:262:LYS:HZ1	1:U:91:SER:HB2	1.82	0.43
1:S:316:MET:HA	1:S:336:GLY:HA2	1.99	0.43
1:S:320:ASN:HB2	1:S:333:VAL:HG11	2.01	0.43
1:V:95:SER:HB2	1:V:187:LEU:HD13	2.00	0.43
1:V:371:ASN:HB2	1:V:524:TRP:CE3	2.54	0.43
1:V:423:ASP:OD2	1:X:531:LYS:NZ	2.29	0.43
1:W:95:SER:HB2	1:W:187:LEU:HD13	2.00	0.43
1:Y:382:LEU:O	1:Y:392:LEU:HD12	2.19	0.43
1:Z:209:GLU:HG3	1:Z:324:THR:HG22	2.00	0.43
1:Z:274:HIS:HD2	1:Z:387:GLN:HB3	1.82	0.43
1:a:371:ASN:HB2	1:a:524:TRP:CE3	2.54	0.43
1:b:500:ILE:HD12	1:o:210:LYS:HD2	1.99	0.43
1:f:241:PHE:HB3	1:f:243:CYS:SG	2.58	0.43
1:f:321:PRO:HA	1:g:379:ASP:OD2	2.19	0.43
1:g:91:SER:HB2	1:h:262:LYS:NZ	2.33	0.43
1:h:316:MET:HA	1:h:336:GLY:HA2	1.99	0.43
1:i:320:ASN:HB2	1:i:333:VAL:HG11	2.01	0.43
1:i:371:ASN:HB2	1:i:524:TRP:CE3	2.54	0.43
1:i:382:LEU:O	1:i:392:LEU:HD12	2.19	0.43
1:j:218:PHE:HB2	1:l:511:HIS:HD2	1.83	0.43
1:l:241:PHE:HB3	1:l:243:CYS:SG	2.58	0.43
1:m:345:ARG:HD3	1:n:320:ASN:O	2.18	0.43
1:p:371:ASN:HB2	1:p:524:TRP:CE3	2.54	0.43
1:q:91:SER:HB2	1:s:262:LYS:NZ	2.33	0.43
1:q:382:LEU:O	1:q:392:LEU:HD12	2.18	0.43
1:r:316:MET:HA	1:r:336:GLY:HA2	1.99	0.43
1:u:134:GLN:NE2	1:2:153:ALA:HA	2.32	0.43
1:v:455:SER:OG	1:v:457:ASN:O	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:95:SER:HB2	1:y:187:LEU:HD13	2.00	0.43
1:y:320:ASN:HB2	1:y:333:VAL:HG11	2.01	0.43
1:y:382:LEU:O	1:y:392:LEU:HD12	2.19	0.43
1:1:241:PHE:HB3	1:1:243:CYS:SG	2.58	0.43
1:2:206:ASN:HD21	1:2:324:THR:HA	1.82	0.43
1:2:500:ILE:HD12	1:3:210:LYS:HD2	2.00	0.43
1:4:241:PHE:HB3	1:4:243:CYS:SG	2.58	0.43
1:6:95:SER:HB2	1:6:187:LEU:HD13	2.00	0.43
1:7:382:LEU:O	1:7:392:LEU:HD12	2.19	0.43
1:B:241:PHE:HB3	1:B:243:CYS:SG	2.58	0.43
1:B:262:LYS:NZ	1:J:91:SER:HB2	2.33	0.43
1:E:321:PRO:HA	1:F:379:ASP:OD2	2.19	0.43
1:F:320:ASN:HB2	1:F:333:VAL:HG11	2.01	0.43
1:J:382:LEU:O	1:J:392:LEU:HD12	2.18	0.43
1:K:382:LEU:O	1:K:392:LEU:HD12	2.19	0.43
1:M:241:PHE:HB3	1:M:243:CYS:SG	2.58	0.43
1:M:371:ASN:HB2	1:M:524:TRP:CE3	2.54	0.43
1:O:328:SER:OG	1:O:329:GLY:N	2.50	0.43
1:S:127:HIS:CD2	1:S:238:THR:HG22	2.47	0.43
1:U:95:SER:HB2	1:U:187:LEU:HD13	2.00	0.43
1:X:95:SER:HB2	1:X:187:LEU:HD13	2.00	0.43
1:X:127:HIS:CD2	1:X:238:THR:HG22	2.47	0.43
1:X:210:LYS:HD2	1:f:500:ILE:HD12	1.99	0.43
1:c:379:ASP:OD2	1:o:321:PRO:HA	2.19	0.43
1:g:98:ASN:ND2	1:g:175:ASP:OD1	2.39	0.43
1:g:320:ASN:O	1:h:345:ARG:HD3	2.18	0.43
1:j:95:SER:HB2	1:j:187:LEU:HD13	2.00	0.43
1:o:229:LEU:HA	1:o:233:GLU:OE1	2.18	0.43
1:p:229:LEU:HA	1:p:233:GLU:OE1	2.18	0.43
1:v:150:ASP:OD1	1:v:150:ASP:N	2.50	0.43
1:w:209:GLU:HG3	1:w:324:THR:HG22	2.00	0.43
1:1:209:GLU:HG3	1:1:324:THR:HG22	2.00	0.43
1:1:371:ASN:HB2	1:1:524:TRP:CE3	2.54	0.43
1:2:229:LEU:HA	1:2:233:GLU:OE1	2.18	0.43
1:B:209:GLU:HG3	1:B:324:THR:HG22	2.00	0.43
1:B:345:ARG:HD3	1:J:320:ASN:O	2.18	0.43
1:C:153:ALA:HA	1:D:134:GLN:NE2	2.33	0.43
1:C:262:LYS:NZ	1:b:91:SER:HB2	2.34	0.43
1:D:274:HIS:HD2	1:D:387:GLN:HB3	1.82	0.43
1:E:209:GLU:HG3	1:E:324:THR:HG22	2.00	0.43
1:E:241:PHE:HB3	1:E:243:CYS:SG	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:39:SER:N	1:I:233:GLU:OE2	2.50	0.43
1:H:88:ARG:HH22	1:Z:506:ILE:HB	1.84	0.43
1:H:218:PHE:HB2	1:Z:511:HIS:HD2	1.83	0.43
1:I:179:GLU:OE2	1:I:411:ARG:NH1	2.46	0.43
1:K:488:ARG:HG3	1:a:218:PHE:HB3	2.01	0.43
1:O:379:ASP:OD2	1:m:321:PRO:HA	2.19	0.43
1:O:455:SER:OG	1:O:457:ASN:O	2.28	0.43
1:P:455:SER:OG	1:P:457:ASN:O	2.28	0.43
1:R:382:LEU:O	1:R:392:LEU:HD12	2.19	0.43
1:S:371:ASN:HB2	1:S:524:TRP:CE3	2.54	0.43
1:T:320:ASN:HB2	1:T:333:VAL:HG11	2.00	0.43
1:T:321:PRO:HA	1:l:379:ASP:OD2	2.19	0.43
1:V:229:LEU:HA	1:V:233:GLU:OE1	2.18	0.43
1:W:455:SER:OG	1:W:457:ASN:O	2.28	0.43
1:X:321:PRO:HA	1:e:379:ASP:OD2	2.19	0.43
1:Y:511:HIS:HD2	1:4:218:PHE:HB2	1.82	0.43
1:Z:371:ASN:HB2	1:Z:524:TRP:CE3	2.54	0.43
1:b:179:GLU:OE2	1:b:411:ARG:NH1	2.46	0.43
1:d:382:LEU:O	1:d:392:LEU:HD12	2.19	0.43
1:e:382:LEU:O	1:e:392:LEU:HD12	2.19	0.43
1:h:241:PHE:HB3	1:h:243:CYS:SG	2.58	0.43
1:i:241:PHE:HB3	1:i:243:CYS:SG	2.58	0.43
1:n:382:LEU:O	1:n:392:LEU:HD12	2.19	0.43
1:o:95:SER:HB2	1:o:187:LEU:HD13	2.00	0.43
1:o:127:HIS:CD2	1:o:238:THR:HG22	2.47	0.43
1:o:379:ASP:OD2	1:p:321:PRO:HA	2.19	0.43
1:q:511:HIS:HD2	1:y:218:PHE:HB2	1.84	0.43
1:r:371:ASN:HB2	1:r:524:TRP:CE3	2.54	0.43
1:t:455:SER:OG	1:t:457:ASN:O	2.28	0.43
1:w:241:PHE:HB3	1:w:243:CYS:SG	2.58	0.43
1:w:379:ASP:OD2	1:x:321:PRO:HA	2.19	0.43
1:1:262:LYS:NZ	1:2:91:SER:HB2	2.33	0.43
1:2:382:LEU:O	1:2:392:LEU:HD12	2.19	0.43
1:3:274:HIS:HD2	1:3:387:GLN:HB3	1.82	0.43
1:4:382:LEU:O	1:4:392:LEU:HD12	2.19	0.43
1:5:218:PHE:HB2	1:8:511:HIS:HD2	1.83	0.43
1:6:262:LYS:NZ	1:7:91:SER:HB2	2.33	0.43
1:8:371:ASN:HB2	1:8:524:TRP:CE3	2.54	0.43
1:A:455:SER:OG	1:A:457:ASN:O	2.28	0.43
1:E:379:ASP:OD2	1:Q:321:PRO:HA	2.19	0.43
1:G:382:LEU:O	1:G:392:LEU:HD12	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:506:ILE:HB	1:W:88:ARG:HH22	1.84	0.43
1:I:500:ILE:HD12	1:J:210:LYS:HD2	1.99	0.43
1:J:229:LEU:HA	1:J:233:GLU:OE1	2.18	0.43
1:K:500:ILE:HD12	1:L:210:LYS:HD2	2.00	0.43
1:L:382:LEU:O	1:L:392:LEU:HD12	2.18	0.43
1:O:320:ASN:HB2	1:O:333:VAL:HG11	2.01	0.43
1:O:382:LEU:O	1:O:392:LEU:HD12	2.19	0.43
1:T:345:ARG:HD3	1:d:320:ASN:O	2.18	0.43
1:U:382:LEU:O	1:U:392:LEU:HD12	2.19	0.43
1:V:321:PRO:HA	1:X:379:ASP:OD2	2.19	0.43
1:W:262:LYS:NZ	1:Y:91:SER:HB2	2.33	0.43
1:a:229:LEU:HA	1:a:233:GLU:OE1	2.18	0.43
1:a:274:HIS:HD2	1:a:387:GLN:HB3	1.82	0.43
1:c:382:LEU:O	1:c:392:LEU:HD12	2.19	0.43
1:d:206:ASN:HD21	1:d:324:THR:HA	1.82	0.43
1:d:229:LEU:HA	1:d:233:GLU:OE1	2.18	0.43
1:g:320:ASN:HB2	1:g:333:VAL:HG11	2.00	0.43
1:k:274:HIS:HD2	1:k:387:GLN:HB3	1.82	0.43
1:l:320:ASN:HB2	1:l:333:VAL:HG11	2.01	0.43
1:l:382:LEU:O	1:l:392:LEU:HD12	2.19	0.43
1:m:320:ASN:HB2	1:m:333:VAL:HG11	2.00	0.43
1:n:206:ASN:HD21	1:n:324:THR:HA	1.82	0.43
1:n:229:LEU:HA	1:n:233:GLU:OE1	2.18	0.43
1:q:488:ARG:HG3	1:r:218:PHE:HB3	2.01	0.43
1:u:233:GLU:OE2	1:5:39:SER:N	2.50	0.43
1:u:500:ILE:HD12	1:2:210:LYS:HD2	2.00	0.43
1:v:127:HIS:CD2	1:v:238:THR:HG22	2.47	0.43
1:x:316:MET:HA	1:x:336:GLY:HA2	1.99	0.43
1:x:320:ASN:HB2	1:x:333:VAL:HG11	2.00	0.43
1:z:371:ASN:HB2	1:z:524:TRP:CE3	2.54	0.43
1:z:382:LEU:O	1:z:392:LEU:HD12	2.19	0.43
1:3:229:LEU:HA	1:3:233:GLU:OE1	2.18	0.43
1:4:252:TYR:CD1	1:4:253:ILE:HG23	2.54	0.43
1:8:209:GLU:HG3	1:8:324:THR:HG22	2.01	0.43
1:C:98:ASN:ND2	1:C:175:ASP:OD1	2.39	0.43
1:C:252:TYR:CD1	1:C:253:ILE:HG23	2.54	0.43
1:D:88:ARG:HH22	1:E:506:ILE:HB	1.84	0.43
1:F:136:LYS:HA	1:F:149:ASN:HA	2.01	0.43
1:F:371:ASN:HB2	1:F:524:TRP:CE3	2.54	0.43
1:H:153:ALA:HA	1:Z:134:GLN:NE2	2.33	0.43
1:J:252:TYR:CD1	1:J:253:ILE:HG23	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:91:SER:HB2	1:8:262:LYS:HZ1	1.84	0.43
1:L:95:SER:HB2	1:L:187:LEU:HD13	2.00	0.43
1:L:371:ASN:HB2	1:L:524:TRP:CE3	2.54	0.43
1:L:511:HIS:HD2	1:b:218:PHE:HB2	1.83	0.43
1:M:252:TYR:CD1	1:M:253:ILE:HG23	2.54	0.43
1:M:321:PRO:HA	1:b:379:ASP:OD2	2.19	0.43
1:N:241:PHE:HB3	1:N:243:CYS:SG	2.58	0.43
1:O:506:ILE:HB	1:P:88:ARG:HH22	1.84	0.43
1:P:136:LYS:HA	1:P:149:ASN:HA	2.01	0.43
1:Q:150:ASP:OD1	1:Q:150:ASP:N	2.50	0.43
1:Q:209:GLU:HG3	1:Q:324:THR:HG22	2.00	0.43
1:S:379:ASP:OD2	1:U:321:PRO:HA	2.19	0.43
1:S:382:LEU:O	1:S:392:LEU:HD12	2.18	0.43
1:U:136:LYS:HA	1:U:149:ASN:HA	2.01	0.43
1:X:252:TYR:CD1	1:X:253:ILE:HG23	2.54	0.43
1:Z:218:PHE:HB3	1:3:488:ARG:HG3	2.01	0.43
1:Z:262:LYS:NZ	1:4:91:SER:HB2	2.33	0.43
1:a:252:TYR:CD1	1:a:253:ILE:HG23	2.54	0.43
1:a:320:ASN:HB2	1:a:333:VAL:HG11	2.01	0.43
1:d:379:ASP:OD2	1:l:321:PRO:HA	2.19	0.43
1:j:88:ARG:HH22	1:l:506:ILE:HB	1.84	0.43
1:j:136:LYS:HA	1:j:149:ASN:HA	2.01	0.43
1:k:95:SER:HB2	1:k:187:LEU:HD13	2.00	0.43
1:s:95:SER:HB2	1:s:187:LEU:HD13	2.00	0.43
1:s:136:LYS:HA	1:s:149:ASN:HA	2.01	0.43
1:s:382:LEU:O	1:s:392:LEU:HD12	2.18	0.43
1:t:382:LEU:O	1:t:392:LEU:HD12	2.19	0.43
1:t:506:ILE:HB	1:6:88:ARG:HH22	1.84	0.43
1:v:371:ASN:HB2	1:v:524:TRP:CE3	2.54	0.43
1:v:511:HIS:HD2	1:w:218:PHE:HB2	1.84	0.43
1:x:209:GLU:HG3	1:x:324:THR:HG22	2.00	0.43
1:x:371:ASN:HB2	1:x:524:TRP:CE3	2.53	0.43
1:x:379:ASP:OD2	1:y:321:PRO:HA	2.19	0.43
1:y:136:LYS:HA	1:y:149:ASN:HA	2.01	0.43
1:y:371:ASN:HB2	1:y:524:TRP:CE3	2.54	0.43
1:1:150:ASP:OD1	1:1:150:ASP:N	2.50	0.43
1:1:345:ARG:HD3	1:2:320:ASN:O	2.18	0.43
1:2:252:TYR:CD1	1:2:253:ILE:HG23	2.54	0.43
1:3:252:TYR:CD1	1:3:253:ILE:HG23	2.54	0.43
1:5:153:ALA:HA	1:8:134:GLN:NE2	2.33	0.43
1:5:252:TYR:CD1	1:5:253:ILE:HG23	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:252:TYR:CD1	1:A:253:ILE:HG23	2.54	0.42
1:A:371:ASN:HB2	1:A:524:TRP:CE3	2.54	0.42
1:B:252:TYR:CD1	1:B:253:ILE:HG23	2.54	0.42
1:C:320:ASN:HB2	1:C:333:VAL:HG11	2.01	0.42
1:D:95:SER:HB2	1:D:187:LEU:HD13	2.00	0.42
1:D:488:ARG:HG3	1:N:218:PHE:HB3	2.01	0.42
1:G:455:SER:OG	1:G:457:ASN:O	2.28	0.42
1:H:252:TYR:CD1	1:H:253:ILE:HG23	2.54	0.42
1:K:252:TYR:CD1	1:K:253:ILE:HG23	2.54	0.42
1:L:241:PHE:HB3	1:L:243:CYS:SG	2.58	0.42
1:O:321:PRO:HA	1:n:379:ASP:OD2	2.19	0.42
1:Q:241:PHE:HB3	1:Q:243:CYS:SG	2.58	0.42
1:Q:316:MET:HA	1:Q:336:GLY:HA2	2.00	0.42
1:Q:320:ASN:HB2	1:Q:333:VAL:HG11	2.01	0.42
1:R:218:PHE:HB2	1:V:511:HIS:HD2	1.84	0.42
1:R:371:ASN:HB2	1:R:524:TRP:CE3	2.54	0.42
1:T:262:LYS:HZ1	1:d:91:SER:HB2	1.84	0.42
1:X:150:ASP:OD1	1:X:150:ASP:N	2.50	0.42
1:a:488:ARG:HG3	1:8:218:PHE:HB3	2.01	0.42
1:c:320:ASN:HB2	1:c:333:VAL:HG11	2.01	0.42
1:d:241:PHE:HB3	1:d:243:CYS:SG	2.58	0.42
1:f:379:ASP:OD2	1:h:321:PRO:HA	2.19	0.42
1:g:252:TYR:CD1	1:g:253:ILE:HG23	2.54	0.42
1:p:511:HIS:HD2	1:q:218:PHE:HB2	1.83	0.42
1:q:371:ASN:HB2	1:q:524:TRP:CE3	2.54	0.42
1:q:506:ILE:HB	1:y:88:ARG:HH22	1.84	0.42
1:r:379:ASP:OD2	1:s:321:PRO:HA	2.19	0.42
1:v:252:TYR:CD1	1:v:253:ILE:HG23	2.54	0.42
1:x:150:ASP:OD1	1:x:150:ASP:N	2.50	0.42
1:x:241:PHE:HB3	1:x:243:CYS:SG	2.58	0.42
1:z:95:SER:HB2	1:z:187:LEU:HD13	2.00	0.42
1:1:252:TYR:CD1	1:1:253:ILE:HG23	2.54	0.42
1:2:136:LYS:HA	1:2:149:ASN:HA	2.01	0.42
1:5:88:ARG:HH22	1:8:506:ILE:HB	1.84	0.42
1:A:136:LYS:HA	1:A:149:ASN:HA	2.01	0.42
1:A:423:ASP:OD2	1:I:531:LYS:NZ	2.29	0.42
1:A:511:HIS:HD2	1:E:218:PHE:HB2	1.84	0.42
1:B:150:ASP:OD1	1:B:150:ASP:N	2.50	0.42
1:C:136:LYS:HA	1:C:149:ASN:HA	2.01	0.42
1:C:209:GLU:HG3	1:C:324:THR:HG22	2.00	0.42
1:D:136:LYS:HA	1:D:149:ASN:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:320:ASN:HB2	1:E:333:VAL:HG11	2.00	0.42
1:F:321:PRO:HA	1:Q:379:ASP:OD2	2.19	0.42
1:G:252:TYR:CD1	1:G:253:ILE:HG23	2.54	0.42
1:G:488:ARG:HG3	1:I:218:PHE:HB3	2.01	0.42
1:H:274:HIS:HD2	1:H:387:GLN:HB3	1.82	0.42
1:I:136:LYS:HA	1:I:149:ASN:HA	2.01	0.42
1:J:136:LYS:HA	1:J:149:ASN:HA	2.01	0.42
1:N:379:ASP:OD2	1:P:321:PRO:HA	2.19	0.42
1:O:179:GLU:OE2	1:O:411:ARG:NH1	2.46	0.42
1:P:252:TYR:CD1	1:P:253:ILE:HG23	2.54	0.42
1:P:371:ASN:HB2	1:P:524:TRP:CE3	2.53	0.42
1:Q:252:TYR:CD1	1:Q:253:ILE:HG23	2.54	0.42
1:Q:371:ASN:HB2	1:Q:524:TRP:CE3	2.54	0.42
1:Q:382:LEU:O	1:Q:392:LEU:HD12	2.19	0.42
1:R:321:PRO:HA	1:U:379:ASP:OD2	2.19	0.42
1:V:136:LYS:HA	1:V:149:ASN:HA	2.01	0.42
1:V:531:LYS:NZ	1:e:423:ASP:OD2	2.29	0.42
1:a:382:LEU:O	1:a:392:LEU:HD12	2.19	0.42
1:b:320:ASN:HB2	1:b:333:VAL:HG11	2.01	0.42
1:c:321:PRO:HA	1:p:379:ASP:OD2	2.19	0.42
1:f:320:ASN:HB2	1:f:333:VAL:HG11	2.01	0.42
1:g:136:LYS:HA	1:g:149:ASN:HA	2.01	0.42
1:g:209:GLU:HG3	1:g:324:THR:HG22	2.00	0.42
1:h:252:TYR:CD1	1:h:253:ILE:HG23	2.54	0.42
1:j:252:TYR:CD1	1:j:253:ILE:HG23	2.54	0.42
1:o:252:TYR:CD1	1:o:253:ILE:HG23	2.54	0.42
1:r:382:LEU:O	1:r:392:LEU:HD12	2.19	0.42
1:s:209:GLU:HG3	1:s:324:THR:HG22	2.00	0.42
1:t:153:ALA:HA	1:y:134:GLN:NE2	2.33	0.42
1:u:136:LYS:HA	1:u:149:ASN:HA	2.01	0.42
1:u:531:LYS:NZ	1:v:423:ASP:OD2	2.29	0.42
1:w:91:SER:HB2	1:y:262:LYS:HZ1	1.83	0.42
1:w:321:PRO:HA	1:y:379:ASP:OD2	2.19	0.42
1:w:488:ARG:HG3	1:x:218:PHE:HB3	2.01	0.42
1:x:252:TYR:CD1	1:x:253:ILE:HG23	2.54	0.42
1:z:136:LYS:HA	1:z:149:ASN:HA	2.01	0.42
1:z:229:LEU:HA	1:z:233:GLU:OE1	2.18	0.42
1:z:241:PHE:HB3	1:z:243:CYS:SG	2.58	0.42
1:3:320:ASN:HB2	1:3:333:VAL:HG11	2.01	0.42
1:5:274:HIS:HD2	1:5:387:GLN:HB3	1.82	0.42
1:B:321:PRO:HA	1:L:379:ASP:OD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:371:ASN:HB2	1:C:524:TRP:CE3	2.54	0.42
1:C:379:ASP:OD2	1:b:321:PRO:HA	2.19	0.42
1:D:321:PRO:HA	1:P:379:ASP:OD2	2.19	0.42
1:E:488:ARG:HG3	1:Q:218:PHE:HB3	2.01	0.42
1:F:252:TYR:CD1	1:F:253:ILE:HG23	2.54	0.42
1:H:241:PHE:HB3	1:H:243:CYS:SG	2.58	0.42
1:L:136:LYS:HA	1:L:149:ASN:HA	2.01	0.42
1:L:209:GLU:HG3	1:L:324:THR:HG22	2.00	0.42
1:L:229:LEU:HA	1:L:233:GLU:OE1	2.18	0.42
1:O:345:ARG:HD3	1:m:320:ASN:O	2.18	0.42
1:S:209:GLU:HG3	1:S:324:THR:HG22	2.00	0.42
1:T:320:ASN:O	1:l:345:ARG:HD3	2.18	0.42
1:U:75:GLU:OE1	1:U:75:GLU:N	2.53	0.42
1:U:209:GLU:HG3	1:U:324:THR:HG22	2.00	0.42
1:V:75:GLU:OE1	1:V:75:GLU:N	2.53	0.42
1:V:252:TYR:CD1	1:V:253:ILE:HG23	2.54	0.42
1:V:320:ASN:HB2	1:V:333:VAL:HG11	2.01	0.42
1:Y:75:GLU:N	1:Y:75:GLU:OE1	2.53	0.42
1:Z:136:LYS:HA	1:Z:149:ASN:HA	2.01	0.42
1:Z:229:LEU:HA	1:Z:233:GLU:OE1	2.18	0.42
1:c:316:MET:HA	1:c:336:GLY:HA2	1.99	0.42
1:e:320:ASN:HB2	1:e:333:VAL:HG11	2.01	0.42
1:f:218:PHE:HB2	1:z:511:HIS:HD2	1.84	0.42
1:g:371:ASN:HB2	1:g:524:TRP:CE3	2.54	0.42
1:i:218:PHE:HB3	1:k:488:ARG:HG3	2.01	0.42
1:n:241:PHE:HB3	1:n:243:CYS:SG	2.58	0.42
1:o:150:ASP:N	1:o:150:ASP:OD1	2.50	0.42
1:p:75:GLU:OE1	1:p:75:GLU:N	2.53	0.42
1:p:136:LYS:HA	1:p:149:ASN:HA	2.01	0.42
1:p:252:TYR:CD1	1:p:253:ILE:HG23	2.54	0.42
1:r:209:GLU:HG3	1:r:324:THR:HG22	2.00	0.42
1:s:75:GLU:OE1	1:s:75:GLU:N	2.53	0.42
1:t:252:TYR:CD1	1:t:253:ILE:HG23	2.54	0.42
1:t:488:ARG:HG3	1:u:218:PHE:HB3	2.01	0.42
1:v:136:LYS:HA	1:v:149:ASN:HA	2.01	0.42
1:v:320:ASN:HB2	1:v:333:VAL:HG11	2.01	0.42
1:w:150:ASP:OD1	1:w:150:ASP:N	2.50	0.42
1:w:320:ASN:HB2	1:w:333:VAL:HG11	2.01	0.42
1:x:382:LEU:O	1:x:392:LEU:HD12	2.19	0.42
1:y:252:TYR:CD1	1:y:253:ILE:HG23	2.54	0.42
1:z:379:ASP:OD2	1:1:321:PRO:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:382:LEU:O	1:3:392:LEU:HD12	2.19	0.42
1:5:320:ASN:HB2	1:5:333:VAL:HG11	2.01	0.42
1:8:136:LYS:HA	1:8:149:ASN:HA	2.01	0.42
1:8:229:LEU:HA	1:8:233:GLU:OE1	2.18	0.42
1:B:136:LYS:HA	1:B:149:ASN:HA	2.01	0.42
1:D:209:GLU:HG3	1:D:324:THR:HG22	2.00	0.42
1:D:379:ASP:OD2	1:N:321:PRO:HA	2.19	0.42
1:E:75:GLU:OE1	1:E:75:GLU:N	2.53	0.42
1:E:150:ASP:OD1	1:E:150:ASP:N	2.50	0.42
1:F:88:ARG:HH22	1:R:506:ILE:HB	1.85	0.42
1:F:218:PHE:HB2	1:R:511:HIS:HD2	1.84	0.42
1:F:506:ILE:HB	1:G:88:ARG:HH22	1.84	0.42
1:G:136:LYS:HA	1:G:149:ASN:HA	2.01	0.42
1:H:320:ASN:HB2	1:H:333:VAL:HG11	2.01	0.42
1:H:379:ASP:OD2	1:W:321:PRO:HA	2.19	0.42
1:I:209:GLU:HG3	1:I:324:THR:HG22	2.00	0.42
1:J:453:VAL:HG22	1:J:461:SER:O	2.20	0.42
1:L:252:TYR:CD1	1:L:253:ILE:HG23	2.54	0.42
1:M:218:PHE:HB2	1:c:511:HIS:HD2	1.84	0.42
1:O:371:ASN:HB2	1:O:524:TRP:CE3	2.54	0.42
1:R:262:LYS:NZ	1:S:91:SER:HB2	2.33	0.42
1:R:320:ASN:HB2	1:R:333:VAL:HG11	2.01	0.42
1:T:229:LEU:HA	1:T:233:GLU:OE1	2.18	0.42
1:U:316:MET:HA	1:U:336:GLY:HA2	1.99	0.42
1:V:209:GLU:HG3	1:V:324:THR:HG22	2.00	0.42
1:V:379:ASP:OD2	1:e:321:PRO:HA	2.19	0.42
1:X:371:ASN:HB2	1:X:524:TRP:CE3	2.54	0.42
1:Z:179:GLU:OE2	1:Z:411:ARG:NH1	2.46	0.42
1:c:252:TYR:CD1	1:c:253:ILE:HG23	2.54	0.42
1:e:252:TYR:CD1	1:e:253:ILE:HG23	2.54	0.42
1:e:316:MET:HA	1:e:336:GLY:HA2	1.99	0.42
1:e:511:HIS:HD2	1:h:218:PHE:HB2	1.84	0.42
1:f:218:PHE:HB3	1:g:488:ARG:HG3	2.01	0.42
1:g:127:HIS:CD2	1:g:238:THR:HG22	2.47	0.42
1:i:379:ASP:OD2	1:j:321:PRO:HA	2.19	0.42
1:j:379:ASP:OD2	1:k:321:PRO:HA	2.19	0.42
1:k:136:LYS:HA	1:k:149:ASN:HA	2.01	0.42
1:k:252:TYR:CD1	1:k:253:ILE:HG23	2.54	0.42
1:l:179:GLU:OE2	1:l:411:ARG:NH1	2.46	0.42
1:o:371:ASN:HB2	1:o:524:TRP:CE3	2.53	0.42
1:o:455:SER:OG	1:o:457:ASN:O	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:531:LYS:NZ	1:p:423:ASP:OD2	2.29	0.42
1:s:316:MET:HA	1:s:336:GLY:HA2	1.99	0.42
1:t:91:SER:HB2	1:v:262:LYS:HZ1	1.85	0.42
1:t:136:LYS:HA	1:t:149:ASN:HA	2.01	0.42
1:t:371:ASN:HB2	1:t:524:TRP:CE3	2.54	0.42
1:u:209:GLU:HG3	1:u:324:THR:HG22	2.00	0.42
1:u:320:ASN:HB2	1:u:333:VAL:HG11	2.00	0.42
1:w:75:GLU:N	1:w:75:GLU:OE1	2.53	0.42
1:w:382:LEU:O	1:w:392:LEU:HD12	2.19	0.42
1:1:136:LYS:HA	1:1:149:ASN:HA	2.01	0.42
1:2:453:VAL:HG22	1:2:461:SER:O	2.20	0.42
1:4:209:GLU:HG3	1:4:324:THR:HG22	2.00	0.42
1:5:379:ASP:OD2	1:6:321:PRO:HA	2.19	0.42
1:5:488:ARG:HG3	1:6:218:PHE:HB3	2.01	0.42
1:7:75:GLU:OE1	1:7:75:GLU:N	2.53	0.42
1:A:320:ASN:HB2	1:A:333:VAL:HG11	2.01	0.42
1:C:320:ASN:O	1:M:345:ARG:HD3	2.19	0.42
1:C:382:LEU:O	1:C:392:LEU:HD12	2.19	0.42
1:E:382:LEU:O	1:E:392:LEU:HD12	2.19	0.42
1:H:488:ARG:HG3	1:W:218:PHE:HB3	2.01	0.42
1:K:209:GLU:HG3	1:K:324:THR:HG22	2.00	0.42
1:K:506:ILE:HB	1:L:88:ARG:HH22	1.85	0.42
1:L:75:GLU:N	1:L:75:GLU:OE1	2.53	0.42
1:M:75:GLU:OE1	1:M:75:GLU:N	2.53	0.42
1:N:488:ARG:HG3	1:P:218:PHE:HB3	2.01	0.42
1:V:218:PHE:HB3	1:X:488:ARG:HG3	2.01	0.42
1:W:379:ASP:OD2	1:Y:321:PRO:HA	2.19	0.42
1:X:209:GLU:HG3	1:X:324:THR:HG22	2.00	0.42
1:X:320:ASN:HB2	1:X:333:VAL:HG11	2.01	0.42
1:X:455:SER:OG	1:X:457:ASN:O	2.28	0.42
1:a:379:ASP:OD2	1:8:321:PRO:HA	2.19	0.42
1:b:382:LEU:O	1:b:392:LEU:HD12	2.19	0.42
1:d:209:GLU:HG3	1:d:324:THR:HG22	2.00	0.42
1:g:382:LEU:O	1:g:392:LEU:HD12	2.19	0.42
1:h:453:VAL:HG22	1:h:461:SER:O	2.20	0.42
1:i:321:PRO:HA	1:k:379:ASP:OD2	2.19	0.42
1:j:371:ASN:HB2	1:j:524:TRP:CE3	2.54	0.42
1:k:88:ARG:HH22	1:w:506:ILE:HB	1.84	0.42
1:l:371:ASN:HB2	1:l:524:TRP:CE3	2.54	0.42
1:m:229:LEU:HA	1:m:233:GLU:OE1	2.18	0.42
1:n:150:ASP:OD1	1:n:150:ASP:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:209:GLU:HG3	1:n:324:THR:HG22	2.00	0.42
1:o:320:ASN:HB2	1:o:333:VAL:HG11	2.01	0.42
1:p:320:ASN:HB2	1:p:333:VAL:HG11	2.01	0.42
1:q:136:LYS:HA	1:q:149:ASN:HA	2.01	0.42
1:q:262:LYS:NZ	1:r:91:SER:HB2	2.33	0.42
1:q:320:ASN:HB2	1:q:333:VAL:HG11	2.01	0.42
1:q:321:PRO:HA	1:s:379:ASP:OD2	2.19	0.42
1:s:320:ASN:HB2	1:s:333:VAL:HG11	2.01	0.42
1:x:488:ARG:HG3	1:y:218:PHE:HB3	2.01	0.42
1:z:75:GLU:OE1	1:z:75:GLU:N	2.53	0.42
1:z:209:GLU:HG3	1:z:324:THR:HG22	2.00	0.42
1:z:252:TYR:CD1	1:z:253:ILE:HG23	2.54	0.42
1:3:75:GLU:OE1	1:3:75:GLU:N	2.53	0.42
1:5:241:PHE:HB3	1:5:243:CYS:SG	2.58	0.42
1:A:218:PHE:HB2	1:B:511:HIS:HD2	1.84	0.42
1:C:88:ARG:HH22	1:D:506:ILE:HB	1.84	0.42
1:D:252:TYR:CD1	1:D:253:ILE:HG23	2.54	0.42
1:D:345:ARG:HD3	1:N:320:ASN:O	2.18	0.42
1:G:371:ASN:HB2	1:G:524:TRP:CE3	2.54	0.42
1:H:506:ILE:HB	1:I:88:ARG:HH22	1.85	0.42
1:L:453:VAL:HG22	1:L:461:SER:O	2.20	0.42
1:M:453:VAL:HG22	1:M:461:SER:O	2.20	0.42
1:N:136:LYS:HA	1:N:149:ASN:HA	2.01	0.42
1:N:252:TYR:CD1	1:N:253:ILE:HG23	2.54	0.42
1:P:453:VAL:HG22	1:P:461:SER:O	2.20	0.42
1:R:136:LYS:HA	1:R:149:ASN:HA	2.01	0.42
1:R:218:PHE:HB3	1:U:488:ARG:HG3	2.01	0.42
1:R:252:TYR:CD1	1:R:253:ILE:HG23	2.54	0.42
1:S:75:GLU:OE1	1:S:75:GLU:N	2.53	0.42
1:U:320:ASN:HB2	1:U:333:VAL:HG11	2.01	0.42
1:W:488:ARG:HG3	1:Y:218:PHE:HB3	2.01	0.42
1:Z:321:PRO:HA	1:3:379:ASP:OD2	2.19	0.42
1:Z:345:ARG:HD3	1:4:320:ASN:O	2.20	0.42
1:a:75:GLU:N	1:a:75:GLU:OE1	2.53	0.42
1:c:531:LYS:NZ	1:o:423:ASP:OD2	2.29	0.42
1:d:150:ASP:OD1	1:d:150:ASP:N	2.50	0.42
1:d:320:ASN:HB2	1:d:333:VAL:HG11	2.01	0.42
1:e:136:LYS:HA	1:e:149:ASN:HA	2.01	0.42
1:h:75:GLU:OE1	1:h:75:GLU:N	2.53	0.42
1:i:136:LYS:HA	1:i:149:ASN:HA	2.01	0.42
1:i:252:TYR:CD1	1:i:253:ILE:HG23	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:320:ASN:O	1:k:345:ARG:HD3	2.19	0.42
1:i:488:ARG:HG3	1:j:218:PHE:HB3	2.02	0.42
1:n:320:ASN:HB2	1:n:333:VAL:HG11	2.00	0.42
1:p:209:GLU:HG3	1:p:324:THR:HG22	2.00	0.42
1:r:75:GLU:OE1	1:r:75:GLU:N	2.53	0.42
1:u:88:ARG:HH22	1:5:506:ILE:HB	1.85	0.42
1:u:379:ASP:OD2	1:v:321:PRO:HA	2.19	0.42
1:v:218:PHE:HB2	1:1:511:HIS:HD2	1.84	0.42
1:6:379:ASP:OD2	1:7:321:PRO:HA	2.19	0.42
1:6:453:VAL:HG22	1:6:461:SER:O	2.20	0.42
1:6:488:ARG:HG3	1:7:218:PHE:HB3	2.01	0.42
1:8:179:GLU:OE2	1:8:411:ARG:NH1	2.46	0.42
1:A:321:PRO:HA	1:I:379:ASP:OD2	2.19	0.42
1:B:75:GLU:OE1	1:B:75:GLU:N	2.53	0.42
1:C:453:VAL:HG22	1:C:461:SER:O	2.20	0.42
1:E:453:VAL:HG22	1:E:461:SER:O	2.20	0.42
1:G:75:GLU:OE1	1:G:75:GLU:N	2.53	0.42
1:H:218:PHE:HB3	1:Y:488:ARG:HG3	2.02	0.42
1:I:320:ASN:HB2	1:I:333:VAL:HG11	2.01	0.42
1:J:379:ASP:OD2	1:L:321:PRO:HA	2.19	0.42
1:N:75:GLU:OE1	1:N:75:GLU:N	2.53	0.42
1:O:136:LYS:HA	1:O:149:ASN:HA	2.01	0.42
1:T:233:GLU:OE2	1:i:39:SER:N	2.50	0.42
1:U:453:VAL:HG22	1:U:461:SER:O	2.20	0.42
1:W:136:LYS:HA	1:W:149:ASN:HA	2.01	0.42
1:W:453:VAL:HG22	1:W:461:SER:O	2.20	0.42
1:c:136:LYS:HA	1:c:149:ASN:HA	2.01	0.42
1:c:371:ASN:HB2	1:c:524:TRP:CE3	2.54	0.42
1:e:371:ASN:HB2	1:e:524:TRP:CE3	2.54	0.42
1:e:453:VAL:HG22	1:e:461:SER:O	2.20	0.42
1:f:382:LEU:O	1:f:392:LEU:HD12	2.19	0.42
1:f:453:VAL:HG22	1:f:461:SER:O	2.20	0.42
1:g:321:PRO:HA	1:h:379:ASP:OD2	2.19	0.42
1:j:453:VAL:HG22	1:j:461:SER:O	2.20	0.42
1:k:209:GLU:HG3	1:k:324:THR:HG22	2.00	0.42
1:n:453:VAL:HG22	1:n:461:SER:O	2.20	0.42
1:o:488:ARG:HG3	1:p:218:PHE:HB3	2.01	0.42
1:q:252:TYR:CD1	1:q:253:ILE:HG23	2.54	0.42
1:r:252:TYR:CD1	1:r:253:ILE:HG23	2.54	0.42
1:r:488:ARG:HG3	1:s:218:PHE:HB3	2.01	0.42
1:s:453:VAL:HG22	1:s:461:SER:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:75:GLU:N	1:t:75:GLU:OE1	2.53	0.42
1:t:209:GLU:HG3	1:t:324:THR:HG22	2.00	0.42
1:w:136:LYS:HA	1:w:149:ASN:HA	2.01	0.42
1:w:453:VAL:HG22	1:w:461:SER:O	2.20	0.42
1:z:321:PRO:HA	1:2:379:ASP:OD2	2.19	0.42
1:1:75:GLU:N	1:1:75:GLU:OE1	2.53	0.42
1:3:136:LYS:HA	1:3:149:ASN:HA	2.01	0.42
1:5:218:PHE:HB3	1:7:488:ARG:HG3	2.02	0.42
1:6:179:GLU:OE2	1:6:411:ARG:NH1	2.46	0.42
1:A:88:ARG:HH22	1:B:506:ILE:HB	1.84	0.42
1:A:488:ARG:HG3	1:G:218:PHE:HB3	2.01	0.42
1:B:233:GLU:OE2	1:C:39:SER:N	2.50	0.42
1:C:75:GLU:OE1	1:C:75:GLU:N	2.53	0.42
1:C:127:HIS:CD2	1:C:238:THR:HG22	2.47	0.42
1:G:209:GLU:HG3	1:G:324:THR:HG22	2.00	0.42
1:H:453:VAL:HG22	1:H:461:SER:O	2.20	0.42
1:I:252:TYR:CD1	1:I:253:ILE:HG23	2.54	0.42
1:J:75:GLU:OE1	1:J:75:GLU:N	2.53	0.42
1:K:379:ASP:OD2	1:a:321:PRO:HA	2.19	0.42
1:L:127:HIS:CD2	1:L:238:THR:HG22	2.47	0.42
1:M:320:ASN:HB2	1:M:333:VAL:HG11	2.01	0.42
1:R:75:GLU:OE1	1:R:75:GLU:N	2.53	0.42
1:T:252:TYR:CD1	1:T:253:ILE:HG23	2.54	0.42
1:T:488:ARG:HG3	1:d:218:PHE:HB3	2.01	0.42
1:W:252:TYR:CD1	1:W:253:ILE:HG23	2.54	0.42
1:X:511:HIS:HD2	1:Y:218:PHE:HB2	1.85	0.42
1:a:453:VAL:HG22	1:a:461:SER:O	2.20	0.42
1:b:453:VAL:HG22	1:b:461:SER:O	2.20	0.42
1:c:150:ASP:OD1	1:c:150:ASP:N	2.50	0.42
1:c:218:PHE:HB3	1:p:488:ARG:HG3	2.01	0.42
1:c:453:VAL:HG22	1:c:461:SER:O	2.20	0.42
1:d:453:VAL:HG22	1:d:461:SER:O	2.20	0.42
1:g:75:GLU:N	1:g:75:GLU:OE1	2.53	0.42
1:g:88:ARG:HH22	1:k:506:ILE:HB	1.85	0.42
1:g:218:PHE:HB3	1:h:488:ARG:HG3	2.01	0.42
1:g:453:VAL:HG22	1:g:461:SER:O	2.20	0.42
1:h:136:LYS:HA	1:h:149:ASN:HA	2.01	0.42
1:h:320:ASN:HB2	1:h:333:VAL:HG11	2.01	0.42
1:j:75:GLU:OE1	1:j:75:GLU:N	2.53	0.42
1:j:156:HIS:O	1:j:446:ILE:HA	2.20	0.42
1:l:136:LYS:HA	1:l:149:ASN:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:252:TYR:CD1	1:m:253:ILE:HG23	2.54	0.42
1:m:488:ARG:HG3	1:n:218:PHE:HB3	2.01	0.42
1:o:209:GLU:HG3	1:o:324:THR:HG22	2.01	0.42
1:o:511:HIS:HD2	1:7:218:PHE:HB2	1.85	0.42
1:q:218:PHE:HB3	1:s:488:ARG:HG3	2.01	0.42
1:u:75:GLU:OE1	1:u:75:GLU:N	2.53	0.42
1:v:75:GLU:OE1	1:v:75:GLU:N	2.53	0.42
1:y:455:SER:OG	1:y:457:ASN:O	2.28	0.42
1:z:453:VAL:HG22	1:z:461:SER:O	2.20	0.42
1:2:75:GLU:OE1	1:2:75:GLU:N	2.53	0.42
1:6:252:TYR:CD1	1:6:253:ILE:HG23	2.54	0.42
1:8:68:ASN:HB2	1:8:189:GLN:HE22	1.85	0.42
1:A:75:GLU:N	1:A:75:GLU:OE1	2.53	0.42
1:B:453:VAL:HG22	1:B:461:SER:O	2.20	0.42
1:D:218:PHE:HB3	1:P:488:ARG:HG3	2.01	0.42
1:E:136:LYS:HA	1:E:149:ASN:HA	2.01	0.42
1:I:75:GLU:N	1:I:75:GLU:OE1	2.53	0.42
1:O:75:GLU:OE1	1:O:75:GLU:N	2.53	0.42
1:O:156:HIS:O	1:O:446:ILE:HA	2.20	0.42
1:P:156:HIS:O	1:P:446:ILE:HA	2.20	0.42
1:Q:136:LYS:HA	1:Q:149:ASN:HA	2.01	0.42
1:Q:156:HIS:O	1:Q:446:ILE:HA	2.20	0.42
1:S:252:TYR:CD1	1:S:253:ILE:HG23	2.54	0.42
1:T:379:ASP:OD2	1:d:321:PRO:HA	2.19	0.42
1:T:511:HIS:HD2	1:U:218:PHE:HB2	1.83	0.42
1:V:179:GLU:OE2	1:V:411:ARG:NH1	2.46	0.42
1:W:179:GLU:OE2	1:W:411:ARG:NH1	2.46	0.42
1:a:136:LYS:HA	1:a:149:ASN:HA	2.01	0.42
1:b:252:TYR:CD1	1:b:253:ILE:HG23	2.54	0.42
1:e:98:ASN:ND2	1:e:175:ASP:OD1	2.39	0.42
1:h:39:SER:N	1:i:233:GLU:OE2	2.50	0.42
1:i:75:GLU:OE1	1:i:75:GLU:N	2.53	0.42
1:l:156:HIS:O	1:l:446:ILE:HA	2.20	0.42
1:m:379:ASP:OD2	1:n:321:PRO:HA	2.19	0.42
1:q:75:GLU:OE1	1:q:75:GLU:N	2.53	0.42
1:q:156:HIS:O	1:q:446:ILE:HA	2.20	0.42
1:s:252:TYR:CD1	1:s:253:ILE:HG23	2.54	0.42
1:t:218:PHE:HB3	1:v:488:ARG:HG3	2.01	0.42
1:u:252:TYR:CD1	1:u:253:ILE:HG23	2.54	0.42
1:w:156:HIS:O	1:w:446:ILE:HA	2.20	0.42
1:3:453:VAL:HG22	1:3:461:SER:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:453:VAL:HG22	1:5:461:SER:O	2.20	0.42
1:B:218:PHE:HB3	1:L:488:ARG:HG3	2.01	0.42
1:C:156:HIS:O	1:C:446:ILE:HA	2.20	0.42
1:D:150:ASP:OD1	1:D:150:ASP:N	2.50	0.42
1:E:156:HIS:O	1:E:446:ILE:HA	2.20	0.42
1:F:209:GLU:HG3	1:F:324:THR:HG22	2.00	0.42
1:H:321:PRO:HA	1:Y:379:ASP:OD2	2.19	0.42
1:J:172:TRP:HE1	1:J:432:ASP:HB2	1.85	0.42
1:M:136:LYS:HA	1:M:149:ASN:HA	2.01	0.42
1:O:88:ARG:HH22	1:d:506:ILE:HB	1.85	0.42
1:O:252:TYR:CD1	1:O:253:ILE:HG23	2.54	0.42
1:P:75:GLU:OE1	1:P:75:GLU:N	2.53	0.42
1:R:156:HIS:O	1:R:446:ILE:HA	2.20	0.42
1:S:488:ARG:HG3	1:U:218:PHE:HB3	2.02	0.42
1:T:453:VAL:HG22	1:T:461:SER:O	2.20	0.42
1:T:506:ILE:HB	1:U:88:ARG:HH22	1.85	0.42
1:U:252:TYR:CD1	1:U:253:ILE:HG23	2.54	0.42
1:V:488:ARG:HG3	1:e:218:PHE:HB3	2.01	0.42
1:Z:68:ASN:HB2	1:Z:189:GLN:HE22	1.85	0.42
1:Z:262:LYS:HZ1	1:4:91:SER:HB2	1.85	0.42
1:Z:488:ARG:HG3	1:4:218:PHE:HB3	2.01	0.42
1:b:75:GLU:OE1	1:b:75:GLU:N	2.53	0.42
1:d:156:HIS:O	1:d:446:ILE:HA	2.20	0.42
1:d:488:ARG:HG3	1:l:218:PHE:HB3	2.01	0.42
1:e:172:TRP:HE1	1:e:432:ASP:HB2	1.85	0.42
1:f:75:GLU:OE1	1:f:75:GLU:N	2.53	0.42
1:f:252:TYR:CD1	1:f:253:ILE:HG23	2.54	0.42
1:l:75:GLU:N	1:l:75:GLU:OE1	2.53	0.42
1:l:88:ARG:HH22	1:n:506:ILE:HB	1.85	0.42
1:m:209:GLU:HG3	1:m:324:THR:HG22	2.00	0.42
1:m:453:VAL:HG22	1:m:461:SER:O	2.20	0.42
1:m:506:ILE:HB	1:s:88:ARG:HH22	1.85	0.42
1:n:156:HIS:O	1:n:446:ILE:HA	2.20	0.42
1:v:88:ARG:HH22	1:1:506:ILE:HB	1.84	0.42
1:w:218:PHE:HB3	1:y:488:ARG:HG3	2.01	0.42
1:x:156:HIS:O	1:x:446:ILE:HA	2.20	0.42
1:y:209:GLU:HG3	1:y:324:THR:HG22	2.00	0.42
1:z:68:ASN:HB2	1:z:189:GLN:HE22	1.85	0.42
1:z:488:ARG:HG3	1:1:218:PHE:HB3	2.01	0.42
1:1:453:VAL:HG22	1:1:461:SER:O	2.20	0.42
1:4:156:HIS:O	1:4:446:ILE:HA	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:453:VAL:HG22	1:4:461:SER:O	2.20	0.42
1:5:321:PRO:HA	1:7:379:ASP:OD2	2.19	0.42
1:6:136:LYS:HA	1:6:149:ASN:HA	2.01	0.42
1:A:453:VAL:HG22	1:A:461:SER:O	2.20	0.41
1:G:453:VAL:HG22	1:G:461:SER:O	2.20	0.41
1:H:68:ASN:HB2	1:H:189:GLN:HE22	1.85	0.41
1:H:75:GLU:OE1	1:H:75:GLU:N	2.53	0.41
1:I:453:VAL:HG22	1:I:461:SER:O	2.20	0.41
1:K:156:HIS:O	1:K:446:ILE:HA	2.20	0.41
1:K:453:VAL:HG22	1:K:461:SER:O	2.20	0.41
1:L:68:ASN:HB2	1:L:189:GLN:HE22	1.85	0.41
1:L:320:ASN:HB2	1:L:333:VAL:HG11	2.01	0.41
1:N:68:ASN:HB2	1:N:189:GLN:HE22	1.85	0.41
1:N:506:ILE:HB	1:m:88:ARG:HH22	1.85	0.41
1:N:511:HIS:HD2	1:m:218:PHE:HB2	1.84	0.41
1:O:218:PHE:HB3	1:n:488:ARG:HG3	2.01	0.41
1:U:172:TRP:HE1	1:U:432:ASP:HB2	1.85	0.41
1:X:156:HIS:O	1:X:446:ILE:HA	2.20	0.41
1:Y:136:LYS:HA	1:Y:149:ASN:HA	2.01	0.41
1:Y:252:TYR:CD1	1:Y:253:ILE:HG23	2.54	0.41
1:Y:453:VAL:HG22	1:Y:461:SER:O	2.20	0.41
1:Z:252:TYR:CD1	1:Z:253:ILE:HG23	2.54	0.41
1:b:156:HIS:O	1:b:446:ILE:HA	2.20	0.41
1:c:98:ASN:ND2	1:c:175:ASP:OD1	2.39	0.41
1:c:172:TRP:HE1	1:c:432:ASP:HB2	1.85	0.41
1:e:150:ASP:OD1	1:e:150:ASP:N	2.50	0.41
1:f:156:HIS:O	1:f:446:ILE:HA	2.20	0.41
1:g:156:HIS:O	1:g:446:ILE:HA	2.20	0.41
1:j:488:ARG:HG3	1:k:218:PHE:HB3	2.01	0.41
1:k:150:ASP:OD1	1:k:150:ASP:N	2.50	0.41
1:l:252:TYR:CD1	1:l:253:ILE:HG23	2.54	0.41
1:m:511:HIS:HD2	1:s:218:PHE:HB2	1.83	0.41
1:o:156:HIS:O	1:o:446:ILE:HA	2.20	0.41
1:r:156:HIS:O	1:r:446:ILE:HA	2.20	0.41
1:t:453:VAL:HG22	1:t:461:SER:O	2.20	0.41
1:u:156:HIS:O	1:u:446:ILE:HA	2.20	0.41
1:u:453:VAL:HG22	1:u:461:SER:O	2.20	0.41
1:v:453:VAL:HG22	1:v:461:SER:O	2.20	0.41
1:v:506:ILE:HB	1:w:88:ARG:HH22	1.85	0.41
1:x:453:VAL:HG22	1:x:461:SER:O	2.20	0.41
1:z:320:ASN:HB2	1:z:333:VAL:HG11	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:75:GLU:OE1	1:5:75:GLU:N	2.53	0.41
1:6:156:HIS:O	1:6:446:ILE:HA	2.20	0.41
1:7:453:VAL:HG22	1:7:461:SER:O	2.20	0.41
1:8:252:TYR:CD1	1:8:253:ILE:HG23	2.54	0.41
1:A:506:ILE:HB	1:E:88:ARG:HH22	1.85	0.41
1:D:294:MET:HE3	1:D:382:LEU:HD11	2.03	0.41
1:F:75:GLU:N	1:F:75:GLU:OE1	2.53	0.41
1:G:379:ASP:OD2	1:I:321:PRO:HA	2.19	0.41
1:I:156:HIS:O	1:I:446:ILE:HA	2.20	0.41
1:I:506:ILE:HB	1:J:88:ARG:HH22	1.85	0.41
1:K:88:ARG:HH22	1:7:506:ILE:HB	1.85	0.41
1:K:218:PHE:HB3	1:8:488:ARG:HG3	2.01	0.41
1:L:156:HIS:O	1:L:446:ILE:HA	2.20	0.41
1:R:179:GLU:OE2	1:R:411:ARG:NH1	2.46	0.41
1:S:136:LYS:HA	1:S:149:ASN:HA	2.01	0.41
1:S:156:HIS:O	1:S:446:ILE:HA	2.20	0.41
1:T:209:GLU:HG3	1:T:324:THR:HG22	2.00	0.41
1:T:218:PHE:HB2	1:i:511:HIS:HD2	1.84	0.41
1:T:218:PHE:HB3	1:l:488:ARG:HG3	2.01	0.41
1:V:453:VAL:HG22	1:V:461:SER:O	2.20	0.41
1:W:156:HIS:O	1:W:446:ILE:HA	2.20	0.41
1:X:172:TRP:HE1	1:X:432:ASP:HB2	1.85	0.41
1:X:423:ASP:OD2	1:e:531:LYS:NZ	2.29	0.41
1:Y:68:ASN:HB2	1:Y:189:GLN:HE22	1.85	0.41
1:Y:172:TRP:HE1	1:Y:432:ASP:HB2	1.85	0.41
1:Z:172:TRP:HE1	1:Z:432:ASP:HB2	1.85	0.41
1:c:75:GLU:OE1	1:c:75:GLU:N	2.53	0.41
1:f:136:LYS:HA	1:f:149:ASN:HA	2.01	0.41
1:i:68:ASN:HB2	1:i:189:GLN:HE22	1.85	0.41
1:i:209:GLU:HG3	1:i:324:THR:HG22	2.00	0.41
1:m:136:LYS:HA	1:m:149:ASN:HA	2.01	0.41
1:p:179:GLU:OE2	1:p:411:ARG:NH1	2.46	0.41
1:r:136:LYS:HA	1:r:149:ASN:HA	2.01	0.41
1:s:172:TRP:HE1	1:s:432:ASP:HB2	1.86	0.41
1:t:379:ASP:OD2	1:u:321:PRO:HA	2.19	0.41
1:u:506:ILE:HB	1:2:88:ARG:HH22	1.85	0.41
1:w:179:GLU:OE2	1:w:411:ARG:NH1	2.46	0.41
1:x:75:GLU:OE1	1:x:75:GLU:N	2.53	0.41
1:x:136:LYS:HA	1:x:149:ASN:HA	2.01	0.41
1:x:172:TRP:HE1	1:x:432:ASP:HB2	1.85	0.41
1:y:75:GLU:OE1	1:y:75:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:156:HIS:O	1:z:446:ILE:HA	2.20	0.41
1:1:156:HIS:O	1:1:446:ILE:HA	2.20	0.41
1:2:172:TRP:HE1	1:2:432:ASP:HB2	1.86	0.41
1:5:68:ASN:HB2	1:5:189:GLN:HE22	1.85	0.41
1:7:68:ASN:HB2	1:7:189:GLN:HE22	1.85	0.41
1:7:136:LYS:HA	1:7:149:ASN:HA	2.01	0.41
1:7:252:TYR:CD1	1:7:253:ILE:HG23	2.54	0.41
1:8:294:MET:HE3	1:8:382:LEU:HD11	2.02	0.41
1:A:156:HIS:O	1:A:446:ILE:HA	2.20	0.41
1:B:156:HIS:O	1:B:446:ILE:HA	2.20	0.41
1:F:453:VAL:HG22	1:F:461:SER:O	2.20	0.41
1:I:175:ASP:HA	1:I:188:PHE:CE2	2.56	0.41
1:I:294:MET:HE3	1:I:382:LEU:HD11	2.03	0.41
1:O:453:VAL:HG22	1:O:461:SER:O	2.20	0.41
1:O:488:ARG:HG3	1:m:218:PHE:HB3	2.01	0.41
1:P:506:ILE:HB	1:Q:88:ARG:HH22	1.84	0.41
1:Q:68:ASN:HB2	1:Q:189:GLN:HE22	1.85	0.41
1:Q:453:VAL:HG22	1:Q:461:SER:O	2.20	0.41
1:R:378:ARG:HA	1:R:378:ARG:HD2	1.83	0.41
1:R:453:VAL:HG22	1:R:461:SER:O	2.20	0.41
1:T:88:ARG:HH22	1:i:506:ILE:HB	1.85	0.41
1:T:156:HIS:O	1:T:446:ILE:HA	2.20	0.41
1:U:506:ILE:HB	1:e:88:ARG:HH22	1.84	0.41
1:W:175:ASP:HA	1:W:188:PHE:CE2	2.56	0.41
1:X:453:VAL:HG22	1:X:461:SER:O	2.20	0.41
1:Z:294:MET:HE3	1:Z:382:LEU:HD11	2.03	0.41
1:Z:398:MET:HG2	1:4:398:MET:CE	2.50	0.41
1:a:294:MET:HE3	1:a:382:LEU:HD11	2.03	0.41
1:b:136:LYS:HA	1:b:149:ASN:HA	2.01	0.41
1:d:455:SER:OG	1:d:457:ASN:O	2.28	0.41
1:e:75:GLU:OE1	1:e:75:GLU:N	2.53	0.41
1:g:506:ILE:HB	1:1:88:ARG:HH22	1.85	0.41
1:h:175:ASP:HA	1:h:188:PHE:CE2	2.56	0.41
1:h:377:LEU:HD22	1:h:403:ILE:HG22	2.03	0.41
1:i:175:ASP:HA	1:i:188:PHE:CE2	2.56	0.41
1:j:175:ASP:HA	1:j:188:PHE:CE2	2.56	0.41
1:k:294:MET:HE3	1:k:382:LEU:HD11	2.03	0.41
1:n:294:MET:HE3	1:n:382:LEU:HD11	2.03	0.41
1:n:378:ARG:HA	1:n:378:ARG:HD2	1.83	0.41
1:o:453:VAL:HG22	1:o:461:SER:O	2.20	0.41
1:p:453:VAL:HG22	1:p:461:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:321:PRO:HA	1:v:379:ASP:OD2	2.19	0.41
1:u:175:ASP:HA	1:u:188:PHE:CE2	2.56	0.41
1:u:294:MET:HE3	1:u:382:LEU:HD11	2.03	0.41
1:x:68:ASN:HB2	1:x:189:GLN:HE22	1.85	0.41
1:z:127:HIS:CD2	1:z:238:THR:HG22	2.47	0.41
1:3:294:MET:HE3	1:3:382:LEU:HD11	2.03	0.41
1:5:91:SER:HB2	1:7:262:LYS:HZ1	1.84	0.41
1:6:175:ASP:HA	1:6:188:PHE:CE2	2.56	0.41
1:7:150:ASP:OD1	1:7:150:ASP:N	2.50	0.41
1:8:453:VAL:HG22	1:8:461:SER:O	2.20	0.41
1:A:218:PHE:HB3	1:I:488:ARG:HG3	2.01	0.41
1:D:75:GLU:N	1:D:75:GLU:OE1	2.53	0.41
1:E:252:TYR:CD1	1:E:253:ILE:HG23	2.54	0.41
1:E:294:MET:HE3	1:E:382:LEU:HD11	2.03	0.41
1:F:175:ASP:HA	1:F:188:PHE:CE2	2.56	0.41
1:F:218:PHE:HB3	1:Q:488:ARG:HG3	2.02	0.41
1:K:75:GLU:OE1	1:K:75:GLU:N	2.53	0.41
1:K:172:TRP:HE1	1:K:432:ASP:HB2	1.85	0.41
1:M:175:ASP:HA	1:M:188:PHE:CE2	2.56	0.41
1:M:377:LEU:HD22	1:M:403:ILE:HG22	2.03	0.41
1:M:506:ILE:HB	1:N:88:ARG:HH22	1.85	0.41
1:N:175:ASP:HA	1:N:188:PHE:CE2	2.56	0.41
1:N:209:GLU:HG3	1:N:324:THR:HG22	2.00	0.41
1:N:453:VAL:HG22	1:N:461:SER:O	2.20	0.41
1:Q:172:TRP:HE1	1:Q:432:ASP:HB2	1.86	0.41
1:T:136:LYS:HA	1:T:149:ASN:HA	2.01	0.41
1:V:378:ARG:HA	1:V:378:ARG:HD2	1.83	0.41
1:Z:378:ARG:HA	1:Z:378:ARG:HD2	1.83	0.41
1:Z:453:VAL:HG22	1:Z:461:SER:O	2.20	0.41
1:b:172:TRP:HE1	1:b:432:ASP:HB2	1.85	0.41
1:b:175:ASP:HA	1:b:188:PHE:CE2	2.56	0.41
1:c:68:ASN:HB2	1:c:189:GLN:HE22	1.85	0.41
1:d:68:ASN:HB2	1:d:189:GLN:HE22	1.85	0.41
1:d:75:GLU:OE1	1:d:75:GLU:N	2.53	0.41
1:d:136:LYS:HA	1:d:149:ASN:HA	2.01	0.41
1:f:172:TRP:HE1	1:f:432:ASP:HB2	1.85	0.41
1:f:175:ASP:HA	1:f:188:PHE:CE2	2.56	0.41
1:i:294:MET:HE3	1:i:382:LEU:HD11	2.03	0.41
1:i:453:VAL:HG22	1:i:461:SER:O	2.20	0.41
1:k:75:GLU:OE1	1:k:75:GLU:N	2.53	0.41
1:k:218:PHE:HB2	1:w:511:HIS:HD2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:453:VAL:HG22	1:k:461:SER:O	2.20	0.41
1:m:75:GLU:OE1	1:m:75:GLU:N	2.53	0.41
1:m:156:HIS:O	1:m:446:ILE:HA	2.20	0.41
1:n:75:GLU:OE1	1:n:75:GLU:N	2.53	0.41
1:o:172:TRP:HE1	1:o:432:ASP:HB2	1.86	0.41
1:q:453:VAL:HG22	1:q:461:SER:O	2.20	0.41
1:q:455:SER:OG	1:q:457:ASN:O	2.28	0.41
1:t:172:TRP:HE1	1:t:432:ASP:HB2	1.85	0.41
1:u:172:TRP:HE1	1:u:432:ASP:HB2	1.85	0.41
1:v:156:HIS:O	1:v:446:ILE:HA	2.20	0.41
1:y:175:ASP:HA	1:y:188:PHE:CE2	2.56	0.41
1:y:453:VAL:HG22	1:y:461:SER:O	2.20	0.41
1:3:172:TRP:HE1	1:3:432:ASP:HB2	1.85	0.41
1:3:175:ASP:HA	1:3:188:PHE:CE2	2.56	0.41
1:3:218:PHE:HB3	1:4:488:ARG:HG3	2.03	0.41
1:4:75:GLU:OE1	1:4:75:GLU:N	2.53	0.41
1:4:172:TRP:HE1	1:4:432:ASP:HB2	1.85	0.41
1:6:75:GLU:N	1:6:75:GLU:OE1	2.53	0.41
1:6:127:HIS:CD2	1:6:238:THR:HG22	2.47	0.41
1:7:156:HIS:O	1:7:446:ILE:HA	2.20	0.41
1:7:172:TRP:HE1	1:7:432:ASP:HB2	1.85	0.41
1:8:378:ARG:HA	1:8:378:ARG:HD2	1.83	0.41
1:A:68:ASN:HB2	1:A:189:GLN:HE22	1.85	0.41
1:B:88:ARG:HH22	1:C:506:ILE:HB	1.85	0.41
1:B:175:ASP:HA	1:B:188:PHE:CE2	2.56	0.41
1:D:453:VAL:HG22	1:D:461:SER:O	2.20	0.41
1:G:172:TRP:HE1	1:G:432:ASP:HB2	1.85	0.41
1:I:68:ASN:HB2	1:I:189:GLN:HE22	1.85	0.41
1:J:39:SER:N	1:a:233:GLU:OE2	2.51	0.41
1:K:377:LEU:HD22	1:K:403:ILE:HG22	2.03	0.41
1:N:156:HIS:O	1:N:446:ILE:HA	2.20	0.41
1:N:294:MET:HE3	1:N:382:LEU:HD11	2.03	0.41
1:P:175:ASP:HA	1:P:188:PHE:CE2	2.56	0.41
1:Q:175:ASP:HA	1:Q:188:PHE:CE2	2.56	0.41
1:Q:506:ILE:HB	1:S:88:ARG:HH22	1.85	0.41
1:R:294:MET:HE3	1:R:382:LEU:HD11	2.03	0.41
1:S:172:TRP:HE1	1:S:432:ASP:HB2	1.85	0.41
1:U:294:MET:HE3	1:U:382:LEU:HD11	2.03	0.41
1:V:377:LEU:HD22	1:V:403:ILE:HG22	2.03	0.41
1:W:75:GLU:OE1	1:W:75:GLU:N	2.53	0.41
1:Z:75:GLU:OE1	1:Z:75:GLU:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:172:TRP:HE1	1:a:432:ASP:HB2	1.85	0.41
1:a:175:ASP:HA	1:a:188:PHE:CE2	2.56	0.41
1:b:506:ILE:HB	1:o:88:ARG:HH22	1.85	0.41
1:d:294:MET:HE3	1:d:382:LEU:HD11	2.03	0.41
1:d:378:ARG:HA	1:d:378:ARG:HD2	1.83	0.41
1:e:377:LEU:HD22	1:e:403:ILE:HG22	2.03	0.41
1:j:506:ILE:HB	1:x:88:ARG:HH22	1.85	0.41
1:k:175:ASP:HA	1:k:188:PHE:CE2	2.56	0.41
1:l:453:VAL:HG22	1:l:461:SER:O	2.20	0.41
1:n:252:TYR:CD1	1:n:253:ILE:HG23	2.54	0.41
1:o:75:GLU:N	1:o:75:GLU:OE1	2.53	0.41
1:p:218:PHE:HB2	1:6:511:HIS:HD2	1.84	0.41
1:p:506:ILE:HB	1:q:88:ARG:HH22	1.85	0.41
1:r:172:TRP:HE1	1:r:432:ASP:HB2	1.85	0.41
1:s:294:MET:HE3	1:s:382:LEU:HD11	2.03	0.41
1:s:377:LEU:HD22	1:s:403:ILE:HG22	2.03	0.41
1:u:68:ASN:HB2	1:u:189:GLN:HE22	1.85	0.41
1:u:488:ARG:HG3	1:v:218:PHE:HB3	2.01	0.41
1:w:252:TYR:CD1	1:w:253:ILE:HG23	2.54	0.41
1:w:294:MET:HE3	1:w:382:LEU:HD11	2.03	0.41
1:x:266:ARG:HH12	1:y:101:GLN:HE22	1.69	0.41
1:1:175:ASP:HA	1:1:188:PHE:CE2	2.56	0.41
1:3:156:HIS:O	1:3:446:ILE:HA	2.20	0.41
1:3:179:GLU:OE2	1:3:411:ARG:NH1	2.46	0.41
1:4:175:ASP:HA	1:4:188:PHE:CE2	2.56	0.41
1:4:294:MET:HE3	1:4:382:LEU:HD11	2.03	0.41
1:4:377:LEU:HD22	1:4:403:ILE:HG22	2.03	0.41
1:8:172:TRP:HE1	1:8:432:ASP:HB2	1.86	0.41
1:D:175:ASP:HA	1:D:188:PHE:CE2	2.56	0.41
1:D:218:PHE:HB2	1:E:511:HIS:HD2	1.84	0.41
1:E:218:PHE:HB3	1:F:488:ARG:HG3	2.02	0.41
1:K:233:GLU:OE2	1:7:39:SER:N	2.50	0.41
1:K:294:MET:HE3	1:K:382:LEU:HD11	2.03	0.41
1:K:511:HIS:HD2	1:L:218:PHE:HB2	1.83	0.41
1:M:378:ARG:HA	1:M:378:ARG:HD2	1.83	0.41
1:Q:75:GLU:OE1	1:Q:75:GLU:N	2.53	0.41
1:S:506:ILE:HB	1:d:88:ARG:HH22	1.86	0.41
1:T:75:GLU:N	1:T:75:GLU:OE1	2.53	0.41
1:U:39:SER:N	1:e:233:GLU:OE2	2.50	0.41
1:V:218:PHE:HB2	1:W:511:HIS:HD2	1.84	0.41
1:W:127:HIS:CD2	1:W:238:THR:HG22	2.47	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:75:GLU:OE1	1:X:75:GLU:N	2.53	0.41
1:X:88:ARG:HH22	1:f:506:ILE:HB	1.85	0.41
1:X:294:MET:HE3	1:X:382:LEU:HD11	2.02	0.41
1:Y:150:ASP:N	1:Y:150:ASP:OD1	2.50	0.41
1:Y:156:HIS:O	1:Y:446:ILE:HA	2.20	0.41
1:c:88:ARG:HH22	1:s:506:ILE:HB	1.85	0.41
1:c:377:LEU:HD22	1:c:403:ILE:HG22	2.03	0.41
1:d:252:TYR:CD1	1:d:253:ILE:HG23	2.54	0.41
1:f:294:MET:HE3	1:f:382:LEU:HD11	2.03	0.41
1:i:156:HIS:O	1:i:446:ILE:HA	2.20	0.41
1:i:377:LEU:HD22	1:i:403:ILE:HG22	2.03	0.41
1:n:68:ASN:HB2	1:n:189:GLN:HE22	1.85	0.41
1:n:136:LYS:HA	1:n:149:ASN:HA	2.01	0.41
1:o:175:ASP:HA	1:o:188:PHE:CE2	2.56	0.41
1:p:378:ARG:HA	1:p:378:ARG:HD2	1.83	0.41
1:q:179:GLU:OE2	1:q:411:ARG:NH1	2.46	0.41
1:q:294:MET:HE3	1:q:382:LEU:HD11	2.03	0.41
1:q:378:ARG:HA	1:q:378:ARG:HD2	1.83	0.41
1:s:175:ASP:HA	1:s:188:PHE:CE2	2.56	0.41
1:t:88:ARG:HH22	1:y:506:ILE:HB	1.85	0.41
1:v:68:ASN:HB2	1:v:189:GLN:HE22	1.85	0.41
1:x:79:PRO:HG2	1:x:82:ALA:CB	2.50	0.41
1:x:175:ASP:HA	1:x:188:PHE:CE2	2.56	0.41
1:3:377:LEU:HD22	1:3:403:ILE:HG22	2.03	0.41
1:3:424:LYS:HD2	1:4:427:ILE:HD11	2.03	0.41
1:6:377:LEU:HD22	1:6:403:ILE:HG22	2.03	0.41
1:A:39:SER:N	1:E:233:GLU:OE2	2.51	0.41
1:A:379:ASP:OD2	1:G:321:PRO:HA	2.19	0.41
1:B:68:ASN:HB2	1:B:189:GLN:HE22	1.85	0.41
1:C:172:TRP:HE1	1:C:432:ASP:HB2	1.85	0.41
1:C:321:PRO:HA	1:M:379:ASP:OD2	2.20	0.41
1:D:172:TRP:HE1	1:D:432:ASP:HB2	1.86	0.41
1:E:175:ASP:HA	1:E:188:PHE:CE2	2.56	0.41
1:E:179:GLU:OE2	1:E:411:ARG:NH1	2.46	0.41
1:E:324:THR:H	1:E:324:THR:HG23	1.64	0.41
1:I:172:TRP:HE1	1:I:432:ASP:HB2	1.86	0.41
1:K:175:ASP:HA	1:K:188:PHE:CE2	2.56	0.41
1:M:156:HIS:O	1:M:446:ILE:HA	2.20	0.41
1:N:127:HIS:CD2	1:N:238:THR:HG22	2.47	0.41
1:N:377:LEU:HD22	1:N:403:ILE:HG22	2.03	0.41
1:N:378:ARG:HA	1:N:378:ARG:HD2	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:294:MET:HE3	1:P:382:LEU:HD11	2.03	0.41
1:S:39:SER:N	1:d:233:GLU:OE2	2.51	0.41
1:U:175:ASP:HA	1:U:188:PHE:CE2	2.56	0.41
1:U:377:LEU:HD22	1:U:403:ILE:HG22	2.03	0.41
1:V:68:ASN:HB2	1:V:189:GLN:HE22	1.85	0.41
1:W:377:LEU:HD22	1:W:403:ILE:HG22	2.03	0.41
1:Y:175:ASP:HA	1:Y:188:PHE:CE2	2.56	0.41
1:a:156:HIS:O	1:a:446:ILE:HA	2.20	0.41
1:a:179:GLU:OE2	1:a:411:ARG:NH1	2.46	0.41
1:a:377:LEU:HD22	1:a:403:ILE:HG22	2.03	0.41
1:b:294:MET:HE3	1:b:382:LEU:HD11	2.03	0.41
1:g:172:TRP:HE1	1:g:432:ASP:HB2	1.85	0.41
1:h:156:HIS:O	1:h:446:ILE:HA	2.20	0.41
1:h:506:ILE:HB	1:i:88:ARG:HH22	1.85	0.41
1:j:294:MET:HE3	1:j:382:LEU:HD11	2.03	0.41
1:k:172:TRP:HE1	1:k:432:ASP:HB2	1.85	0.41
1:l:409:ILE:H	1:l:530:ILE:HG12	1.86	0.41
1:p:377:LEU:HD22	1:p:403:ILE:HG22	2.03	0.41
1:r:88:ARG:HH22	1:x:506:ILE:HB	1.85	0.41
1:t:156:HIS:O	1:t:446:ILE:HA	2.20	0.41
1:w:175:ASP:HA	1:w:188:PHE:CE2	2.56	0.41
1:1:68:ASN:HB2	1:1:189:GLN:HE22	1.85	0.41
1:2:39:SER:N	1:3:233:GLU:OE2	2.51	0.41
1:2:409:ILE:H	1:2:530:ILE:HG12	1.86	0.41
1:7:175:ASP:HA	1:7:188:PHE:CE2	2.56	0.41
1:8:75:GLU:OE1	1:8:75:GLU:N	2.53	0.41
1:A:179:GLU:OE2	1:A:411:ARG:NH1	2.46	0.41
1:B:377:LEU:HD22	1:B:403:ILE:HG22	2.03	0.41
1:C:398:MET:CE	1:M:398:MET:HG2	2.51	0.41
1:C:409:ILE:H	1:C:530:ILE:HG12	1.86	0.41
1:E:172:TRP:HE1	1:E:432:ASP:HB2	1.85	0.41
1:H:136:LYS:HA	1:H:149:ASN:HA	2.01	0.41
1:H:172:TRP:HE1	1:H:432:ASP:HB2	1.85	0.41
1:H:409:ILE:H	1:H:530:ILE:HG12	1.86	0.41
1:L:172:TRP:HE1	1:L:432:ASP:HB2	1.85	0.41
1:O:409:ILE:H	1:O:530:ILE:HG12	1.86	0.41
1:Q:79:PRO:HG2	1:Q:82:ALA:CB	2.50	0.41
1:R:127:HIS:CD2	1:R:238:THR:HG22	2.47	0.41
1:S:175:ASP:HA	1:S:188:PHE:CE2	2.56	0.41
1:T:175:ASP:HA	1:T:188:PHE:CE2	2.56	0.41
1:X:175:ASP:HA	1:X:188:PHE:CE2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:377:LEU:HD22	1:X:403:ILE:HG22	2.03	0.41
1:X:506:ILE:HB	1:Y:88:ARG:HH22	1.85	0.41
1:a:409:ILE:H	1:a:530:ILE:HG12	1.86	0.41
1:g:175:ASP:HA	1:g:188:PHE:CE2	2.56	0.41
1:m:175:ASP:HA	1:m:188:PHE:CE2	2.56	0.41
1:n:88:ARG:HH22	1:r:506:ILE:HB	1.86	0.41
1:o:68:ASN:HB2	1:o:189:GLN:HE22	1.85	0.41
1:o:377:LEU:HD22	1:o:403:ILE:HG22	2.03	0.41
1:p:68:ASN:HB2	1:p:189:GLN:HE22	1.85	0.41
1:v:179:GLU:OE2	1:v:411:ARG:NH1	2.46	0.41
1:z:218:PHE:HB3	1:2:488:ARG:HG3	2.02	0.41
1:1:377:LEU:HD22	1:1:403:ILE:HG22	2.03	0.41
1:3:409:ILE:H	1:3:530:ILE:HG12	1.86	0.41
1:5:79:PRO:HG2	1:5:82:ALA:CB	2.50	0.41
1:5:136:LYS:HA	1:5:149:ASN:HA	2.01	0.41
1:5:156:HIS:O	1:5:446:ILE:HA	2.20	0.41
1:5:172:TRP:HE1	1:5:432:ASP:HB2	1.85	0.41
1:6:409:ILE:H	1:6:530:ILE:HG12	1.86	0.41
1:7:294:MET:HE3	1:7:382:LEU:HD11	2.03	0.41
1:7:377:LEU:HD22	1:7:403:ILE:HG22	2.03	0.41
1:8:127:HIS:CD2	1:8:238:THR:HG22	2.47	0.41
1:A:172:TRP:HE1	1:A:432:ASP:HB2	1.85	0.41
1:A:175:ASP:HA	1:A:188:PHE:CE2	2.56	0.41
1:A:427:ILE:HD11	1:G:424:LYS:HD2	2.03	0.41
1:B:409:ILE:H	1:B:530:ILE:HG12	1.86	0.41
1:C:218:PHE:HB3	1:M:488:ARG:HG3	2.01	0.41
1:D:68:ASN:HB2	1:D:189:GLN:HE22	1.85	0.41
1:D:156:HIS:O	1:D:446:ILE:HA	2.20	0.41
1:E:377:LEU:HD22	1:E:403:ILE:HG22	2.03	0.41
1:F:101:GLN:HE22	1:Q:266:ARG:HH12	1.69	0.41
1:F:156:HIS:O	1:F:446:ILE:HA	2.20	0.41
1:G:156:HIS:O	1:G:446:ILE:HA	2.20	0.41
1:H:79:PRO:HG2	1:H:82:ALA:CB	2.50	0.41
1:H:156:HIS:O	1:H:446:ILE:HA	2.20	0.41
1:H:175:ASP:HA	1:H:188:PHE:CE2	2.56	0.41
1:J:409:ILE:H	1:J:530:ILE:HG12	1.86	0.41
1:J:488:ARG:HG3	1:L:218:PHE:HB3	2.02	0.41
1:L:39:SER:N	1:b:233:GLU:OE2	2.50	0.41
1:L:409:ILE:H	1:L:530:ILE:HG12	1.86	0.41
1:M:88:ARG:HH22	1:c:506:ILE:HB	1.85	0.41
1:M:172:TRP:HE1	1:M:432:ASP:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:172:TRP:HE1	1:N:432:ASP:HB2	1.85	0.41
1:N:206:ASN:HB3	1:N:209:GLU:HB2	2.03	0.41
1:O:294:MET:HE3	1:O:382:LEU:HD11	2.03	0.41
1:Q:377:LEU:HD22	1:Q:403:ILE:HG22	2.03	0.41
1:R:88:ARG:HH22	1:V:506:ILE:HB	1.85	0.41
1:R:172:TRP:HE1	1:R:432:ASP:HB2	1.85	0.41
1:R:175:ASP:HA	1:R:188:PHE:CE2	2.56	0.41
1:R:455:SER:OG	1:R:457:ASN:O	2.28	0.41
1:S:68:ASN:HB2	1:S:189:GLN:HE22	1.85	0.41
1:S:453:VAL:HG22	1:S:461:SER:O	2.20	0.41
1:U:455:SER:OG	1:U:457:ASN:O	2.28	0.41
1:V:156:HIS:O	1:V:446:ILE:HA	2.20	0.41
1:W:409:ILE:H	1:W:530:ILE:HG12	1.86	0.41
1:X:68:ASN:HB2	1:X:189:GLN:HE22	1.85	0.41
1:X:218:PHE:HB3	1:e:488:ARG:HG3	2.02	0.41
1:Y:294:MET:HE3	1:Y:382:LEU:HD11	2.03	0.41
1:Y:377:LEU:HD22	1:Y:403:ILE:HG22	2.03	0.41
1:Z:127:HIS:CD2	1:Z:238:THR:HG22	2.47	0.41
1:Z:175:ASP:HA	1:Z:188:PHE:CE2	2.56	0.41
1:a:68:ASN:HB2	1:a:189:GLN:HE22	1.85	0.41
1:c:409:ILE:H	1:c:530:ILE:HG12	1.86	0.41
1:c:488:ARG:HG3	1:o:218:PHE:HB3	2.02	0.41
1:e:409:ILE:H	1:e:530:ILE:HG12	1.86	0.41
1:e:506:ILE:HB	1:h:88:ARG:HH22	1.85	0.41
1:g:101:GLN:HE22	1:h:266:ARG:HH12	1.69	0.41
1:g:294:MET:HE3	1:g:382:LEU:HD11	2.03	0.41
1:g:409:ILE:H	1:g:530:ILE:HG12	1.86	0.41
1:i:127:HIS:CD2	1:i:238:THR:HG22	2.47	0.41
1:i:172:TRP:HE1	1:i:432:ASP:HB2	1.85	0.41
1:i:206:ASN:HB3	1:i:209:GLU:HB2	2.03	0.41
1:i:378:ARG:HA	1:i:378:ARG:HD2	1.83	0.41
1:k:68:ASN:HB2	1:k:189:GLN:HE22	1.85	0.41
1:k:156:HIS:O	1:k:446:ILE:HA	2.20	0.41
1:l:294:MET:HE3	1:l:382:LEU:HD11	2.03	0.41
1:n:233:GLU:OE2	1:r:39:SER:N	2.51	0.41
1:n:377:LEU:HD22	1:n:403:ILE:HG22	2.03	0.41
1:o:294:MET:HE3	1:o:382:LEU:HD11	2.03	0.41
1:o:506:ILE:HB	1:7:88:ARG:HH22	1.85	0.41
1:q:127:HIS:CD2	1:q:238:THR:HG22	2.47	0.41
1:q:175:ASP:HA	1:q:188:PHE:CE2	2.56	0.41
1:r:68:ASN:HB2	1:r:189:GLN:HE22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:175:ASP:HA	1:r:188:PHE:CE2	2.56	0.41
1:r:453:VAL:HG22	1:r:461:SER:O	2.20	0.41
1:s:455:SER:OG	1:s:457:ASN:O	2.28	0.41
1:t:424:LYS:HD2	1:v:427:ILE:HD11	2.03	0.41
1:v:39:SER:N	1:w:233:GLU:OE2	2.51	0.41
1:w:172:TRP:HE1	1:w:432:ASP:HB2	1.85	0.41
1:w:324:THR:H	1:w:324:THR:HG23	1.64	0.41
1:w:377:LEU:HD22	1:w:403:ILE:HG22	2.03	0.41
1:x:294:MET:HE3	1:x:382:LEU:HD11	2.03	0.41
1:x:377:LEU:HD22	1:x:403:ILE:HG22	2.03	0.41
1:y:156:HIS:O	1:y:446:ILE:HA	2.20	0.41
1:z:210:LYS:HD2	1:4:500:ILE:HD12	2.02	0.41
1:z:409:ILE:H	1:z:530:ILE:HG12	1.86	0.41
1:z:423:ASP:OD2	1:2:531:LYS:NZ	2.29	0.41
1:1:172:TRP:HE1	1:1:432:ASP:HB2	1.85	0.41
1:1:409:ILE:H	1:1:530:ILE:HG12	1.86	0.41
1:3:39:SER:N	1:8:233:GLU:OE2	2.51	0.41
1:3:68:ASN:HB2	1:3:189:GLN:HE22	1.85	0.41
1:3:320:ASN:O	1:4:345:ARG:HD3	2.21	0.41
1:5:175:ASP:HA	1:5:188:PHE:CE2	2.56	0.41
1:5:409:ILE:H	1:5:530:ILE:HG12	1.86	0.41
1:6:68:ASN:HB2	1:6:189:GLN:HE22	1.85	0.41
1:6:172:TRP:HE1	1:6:432:ASP:HB2	1.85	0.41
1:A:294:MET:HE3	1:A:382:LEU:HD11	2.03	0.41
1:C:101:GLN:HE22	1:M:266:ARG:HH12	1.69	0.41
1:C:175:ASP:HA	1:C:188:PHE:CE2	2.56	0.41
1:E:424:LYS:HD2	1:F:427:ILE:HD11	2.03	0.41
1:G:175:ASP:HA	1:G:188:PHE:CE2	2.56	0.41
1:H:206:ASN:HB3	1:H:209:GLU:HB2	2.03	0.41
1:J:175:ASP:HA	1:J:188:PHE:CE2	2.56	0.41
1:K:206:ASN:HB3	1:K:209:GLU:HB2	2.03	0.41
1:K:378:ARG:HA	1:K:378:ARG:HD2	1.83	0.41
1:M:511:HIS:HD2	1:N:218:PHE:HB2	1.85	0.41
1:N:409:ILE:H	1:N:530:ILE:HG12	1.86	0.41
1:O:206:ASN:HB3	1:O:209:GLU:HB2	2.03	0.41
1:Q:294:MET:HE3	1:Q:382:LEU:HD11	2.03	0.41
1:S:294:MET:HE3	1:S:382:LEU:HD11	2.03	0.41
1:U:156:HIS:O	1:U:446:ILE:HA	2.20	0.41
1:V:172:TRP:HE1	1:V:432:ASP:HB2	1.86	0.41
1:W:172:TRP:HE1	1:W:432:ASP:HB2	1.85	0.41
1:Z:379:ASP:OD2	1:4:321:PRO:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:424:LYS:HD2	1:3:427:ILE:HD11	2.03	0.41
1:a:427:ILE:HD11	1:8:424:LYS:HD2	2.03	0.41
1:b:206:ASN:HB3	1:b:209:GLU:HB2	2.03	0.41
1:c:233:GLU:OE2	1:s:39:SER:N	2.50	0.41
1:d:377:LEU:HD22	1:d:403:ILE:HG22	2.03	0.41
1:g:179:GLU:OE2	1:g:411:ARG:NH1	2.46	0.41
1:h:172:TRP:HE1	1:h:432:ASP:HB2	1.86	0.41
1:k:79:PRO:HG2	1:k:82:ALA:CB	2.50	0.41
1:k:127:HIS:CD2	1:k:238:THR:HG22	2.47	0.41
1:l:206:ASN:HB3	1:l:209:GLU:HB2	2.03	0.41
1:m:409:ILE:H	1:m:530:ILE:HG12	1.86	0.41
1:p:88:ARG:HH22	1:6:506:ILE:HB	1.85	0.41
1:p:172:TRP:HE1	1:p:432:ASP:HB2	1.85	0.41
1:p:175:ASP:HA	1:p:188:PHE:CE2	2.56	0.41
1:q:172:TRP:HE1	1:q:432:ASP:HB2	1.85	0.41
1:v:172:TRP:HE1	1:v:432:ASP:HB2	1.86	0.41
1:v:175:ASP:HA	1:v:188:PHE:CE2	2.56	0.41
1:y:377:LEU:HD22	1:y:403:ILE:HG22	2.03	0.41
1:z:172:TRP:HE1	1:z:432:ASP:HB2	1.86	0.41
1:2:206:ASN:HB3	1:2:209:GLU:HB2	2.03	0.41
1:4:136:LYS:HA	1:4:149:ASN:HA	2.01	0.41
1:4:206:ASN:HB3	1:4:209:GLU:HB2	2.03	0.41
1:4:378:ARG:HA	1:4:378:ARG:HD2	1.83	0.41
1:5:206:ASN:HB3	1:5:209:GLU:HB2	2.03	0.41
1:8:175:ASP:HA	1:8:188:PHE:CE2	2.56	0.41
1:B:172:TRP:HE1	1:B:432:ASP:HB2	1.86	0.40
1:C:266:ARG:HH12	1:b:101:GLN:HE22	1.69	0.40
1:C:294:MET:HE3	1:C:382:LEU:HD11	2.03	0.40
1:F:377:LEU:HD22	1:F:403:ILE:HG22	2.03	0.40
1:F:424:LYS:HD2	1:Q:427:ILE:HD11	2.03	0.40
1:J:206:ASN:HB3	1:J:209:GLU:HB2	2.03	0.40
1:K:136:LYS:HA	1:K:149:ASN:HA	2.01	0.40
1:K:427:ILE:HD11	1:a:424:LYS:HD2	2.03	0.40
1:L:506:ILE:HB	1:b:88:ARG:HH22	1.85	0.40
1:M:127:HIS:CD2	1:M:238:THR:HG22	2.47	0.40
1:T:409:ILE:H	1:T:530:ILE:HG12	1.86	0.40
1:V:88:ARG:HH22	1:W:506:ILE:HB	1.85	0.40
1:V:175:ASP:HA	1:V:188:PHE:CE2	2.56	0.40
1:V:206:ASN:HB3	1:V:209:GLU:HB2	2.03	0.40
1:X:136:LYS:HA	1:X:149:ASN:HA	2.01	0.40
1:Z:88:ARG:HH22	1:a:506:ILE:HB	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:409:ILE:H	1:Z:530:ILE:HG12	1.86	0.40
1:e:378:ARG:HD2	1:e:378:ARG:HA	1.83	0.40
1:g:377:LEU:HD22	1:g:403:ILE:HG22	2.03	0.40
1:h:378:ARG:HA	1:h:378:ARG:HD2	1.83	0.40
1:i:409:ILE:H	1:i:530:ILE:HG12	1.86	0.40
1:m:427:ILE:HD11	1:n:424:LYS:HD2	2.03	0.40
1:o:136:LYS:HA	1:o:149:ASN:HA	2.01	0.40
1:p:156:HIS:O	1:p:446:ILE:HA	2.20	0.40
1:r:294:MET:HE3	1:r:382:LEU:HD11	2.03	0.40
1:s:68:ASN:HB2	1:s:189:GLN:HE22	1.85	0.40
1:t:175:ASP:HA	1:t:188:PHE:CE2	2.56	0.40
1:v:294:MET:HE3	1:v:382:LEU:HD11	2.03	0.40
1:v:324:THR:H	1:v:324:THR:HG23	1.64	0.40
1:v:409:ILE:H	1:v:530:ILE:HG12	1.86	0.40
1:w:206:ASN:HB3	1:w:209:GLU:HB2	2.03	0.40
1:z:175:ASP:HA	1:z:188:PHE:CE2	2.56	0.40
1:2:175:ASP:HA	1:2:188:PHE:CE2	2.56	0.40
1:5:266:ARG:HH12	1:6:101:GLN:HE22	1.70	0.40
1:C:108:PRO:HB2	1:L:489:PRO:HD3	2.04	0.40
1:C:179:GLU:OE2	1:C:411:ARG:NH1	2.46	0.40
1:D:79:PRO:HG2	1:D:82:ALA:CB	2.50	0.40
1:E:206:ASN:HB3	1:E:209:GLU:HB2	2.03	0.40
1:E:409:ILE:H	1:E:530:ILE:HG12	1.86	0.40
1:L:206:ASN:HB3	1:L:209:GLU:HB2	2.03	0.40
1:M:218:PHE:HB3	1:b:488:ARG:HG3	2.02	0.40
1:O:175:ASP:HA	1:O:188:PHE:CE2	2.56	0.40
1:P:511:HIS:HD2	1:Q:218:PHE:HB2	1.83	0.40
1:R:206:ASN:HB3	1:R:209:GLU:HB2	2.03	0.40
1:T:427:ILE:HD11	1:d:424:LYS:HD2	2.03	0.40
1:U:68:ASN:HB2	1:U:189:GLN:HE22	1.85	0.40
1:U:206:ASN:HB3	1:U:209:GLU:HB2	2.03	0.40
1:U:511:HIS:HD2	1:e:218:PHE:HB2	1.83	0.40
1:f:488:ARG:HG3	1:h:218:PHE:HB3	2.02	0.40
1:h:409:ILE:H	1:h:530:ILE:HG12	1.86	0.40
1:h:511:HIS:HD2	1:i:218:PHE:HB2	1.85	0.40
1:k:378:ARG:HA	1:k:378:ARG:HD2	1.83	0.40
1:l:175:ASP:HA	1:l:188:PHE:CE2	2.56	0.40
1:m:206:ASN:HB3	1:m:209:GLU:HB2	2.03	0.40
1:p:206:ASN:HB3	1:p:209:GLU:HB2	2.03	0.40
1:s:206:ASN:HB3	1:s:209:GLU:HB2	2.03	0.40
1:t:511:HIS:HD2	1:6:218:PHE:HB2	1.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:427:ILE:HD11	1:v:424:LYS:HD2	2.03	0.40
1:w:409:ILE:H	1:w:530:ILE:HG12	1.86	0.40
1:z:206:ASN:HB3	1:z:209:GLU:HB2	2.03	0.40
1:3:245:TRP:HH2	1:3:478:GLU:HG2	1.87	0.40
1:4:324:THR:H	1:4:324:THR:HG23	1.64	0.40
1:8:409:ILE:H	1:8:530:ILE:HG12	1.86	0.40
1:A:409:ILE:H	1:A:530:ILE:HG12	1.86	0.40
1:C:68:ASN:HB2	1:C:189:GLN:HE22	1.85	0.40
1:C:377:LEU:HD22	1:C:403:ILE:HG22	2.03	0.40
1:F:172:TRP:HE1	1:F:432:ASP:HB2	1.85	0.40
1:G:245:TRP:HH2	1:G:478:GLU:HG2	1.87	0.40
1:G:511:HIS:HD2	1:W:218:PHE:HB2	1.84	0.40
1:H:127:HIS:CD2	1:H:238:THR:HG22	2.47	0.40
1:H:245:TRP:HH2	1:H:478:GLU:HG2	1.87	0.40
1:H:266:ARG:HH12	1:W:101:GLN:HE22	1.70	0.40
1:J:156:HIS:O	1:J:446:ILE:HA	2.20	0.40
1:K:218:PHE:HB2	1:7:511:HIS:HD2	1.84	0.40
1:L:175:ASP:HA	1:L:188:PHE:CE2	2.56	0.40
1:M:409:ILE:H	1:M:530:ILE:HG12	1.86	0.40
1:P:68:ASN:HB2	1:P:189:GLN:HE22	1.85	0.40
1:P:172:TRP:HE1	1:P:432:ASP:HB2	1.85	0.40
1:R:245:TRP:HH2	1:R:478:GLU:HG2	1.87	0.40
1:T:206:ASN:HB3	1:T:209:GLU:HB2	2.03	0.40
1:V:294:MET:HE3	1:V:382:LEU:HD11	2.03	0.40
1:W:68:ASN:HB2	1:W:189:GLN:HE22	1.85	0.40
1:Z:206:ASN:HB3	1:Z:209:GLU:HB2	2.03	0.40
1:Z:218:PHE:HB2	1:a:511:HIS:HD2	1.84	0.40
1:Z:233:GLU:OE2	1:a:39:SER:N	2.51	0.40
1:a:245:TRP:HH2	1:a:478:GLU:HG2	1.87	0.40
1:c:175:ASP:HA	1:c:188:PHE:CE2	2.56	0.40
1:c:218:PHE:HB2	1:s:511:HIS:HD2	1.83	0.40
1:d:206:ASN:HB3	1:d:209:GLU:HB2	2.03	0.40
1:f:206:ASN:HB3	1:f:209:GLU:HB2	2.03	0.40
1:f:233:GLU:OE2	1:z:39:SER:N	2.50	0.40
1:j:172:TRP:HE1	1:j:432:ASP:HB2	1.85	0.40
1:n:206:ASN:HB3	1:n:209:GLU:HB2	2.03	0.40
1:o:206:ASN:HB3	1:o:209:GLU:HB2	2.03	0.40
1:q:206:ASN:HB3	1:q:209:GLU:HB2	2.03	0.40
1:r:218:PHE:HB2	1:x:511:HIS:HD2	1.84	0.40
1:s:156:HIS:O	1:s:446:ILE:HA	2.20	0.40
1:s:409:ILE:H	1:s:530:ILE:HG12	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:156:HIS:O	1:2:446:ILE:HA	2.20	0.40
1:3:506:ILE:HB	1:8:88:ARG:HH22	1.85	0.40
1:5:245:TRP:HH2	1:5:478:GLU:HG2	1.87	0.40
1:6:252:TYR:HD1	1:6:253:ILE:HG23	1.87	0.40
1:8:206:ASN:HB3	1:8:209:GLU:HB2	2.03	0.40
1:A:424:LYS:HD2	1:I:427:ILE:HD11	2.04	0.40
1:B:294:MET:HE3	1:B:382:LEU:HD11	2.03	0.40
1:C:509:THR:HG22	1:C:510:TYR:CD2	2.57	0.40
1:D:127:HIS:CD2	1:D:238:THR:HG22	2.47	0.40
1:F:68:ASN:HB2	1:F:189:GLN:HE22	1.85	0.40
1:G:509:THR:HG22	1:G:510:TYR:CD2	2.57	0.40
1:H:91:SER:HB2	1:Y:262:LYS:HZ1	1.86	0.40
1:H:511:HIS:HD2	1:I:218:PHE:HB2	1.83	0.40
1:I:409:ILE:H	1:I:530:ILE:HG12	1.86	0.40
1:J:88:ARG:HD2	1:J:195:VAL:HG12	2.04	0.40
1:M:233:GLU:OE2	1:c:39:SER:N	2.50	0.40
1:N:52:SER:HG	1:N:53:TYR:HD2	1.69	0.40
1:O:172:TRP:HE1	1:O:432:ASP:HB2	1.85	0.40
1:O:377:LEU:HD22	1:O:403:ILE:HG22	2.03	0.40
1:O:427:ILE:HD11	1:m:424:LYS:HD2	2.04	0.40
1:P:509:THR:HG22	1:P:510:TYR:CD2	2.57	0.40
1:W:252:TYR:HD1	1:W:253:ILE:HG23	1.87	0.40
1:X:206:ASN:HB3	1:X:209:GLU:HB2	2.03	0.40
1:a:262:LYS:HZ1	1:8:91:SER:HB2	1.86	0.40
1:b:377:LEU:HD22	1:b:403:ILE:HG22	2.03	0.40
1:b:409:ILE:H	1:b:530:ILE:HG12	1.86	0.40
1:c:245:TRP:HH2	1:c:478:GLU:HG2	1.87	0.40
1:d:427:ILE:HD11	1:l:424:LYS:HD2	2.03	0.40
1:e:39:SER:N	1:h:233:GLU:OE2	2.50	0.40
1:e:175:ASP:HA	1:e:188:PHE:CE2	2.56	0.40
1:e:245:TRP:HH2	1:e:478:GLU:HG2	1.87	0.40
1:f:88:ARG:HH22	1:z:506:ILE:HB	1.85	0.40
1:g:398:MET:CE	1:h:398:MET:HG2	2.52	0.40
1:j:68:ASN:HB2	1:j:189:GLN:HE22	1.85	0.40
1:k:252:TYR:HD1	1:k:253:ILE:HG23	1.87	0.40
1:l:233:GLU:OE2	1:n:39:SER:N	2.51	0.40
1:n:175:ASP:HA	1:n:188:PHE:CE2	2.56	0.40
1:p:294:MET:HE3	1:p:382:LEU:HD11	2.03	0.40
1:q:245:TRP:HH2	1:q:478:GLU:HG2	1.87	0.40
1:r:509:THR:HG22	1:r:510:TYR:CD2	2.57	0.40
1:t:68:ASN:HB2	1:t:189:GLN:HE22	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:79:PRO:HG2	1:t:82:ALA:CB	2.50	0.40
1:t:245:TRP:HH2	1:t:478:GLU:HG2	1.87	0.40
1:t:509:THR:HG22	1:t:510:TYR:CD2	2.57	0.40
1:w:68:ASN:HB2	1:w:189:GLN:HE22	1.85	0.40
1:x:398:MET:HG2	1:y:398:MET:CE	2.52	0.40
1:z:88:ARG:HH22	1:4:506:ILE:HB	1.87	0.40
1:1:294:MET:HE3	1:1:382:LEU:HD11	2.03	0.40
1:G:88:ARG:HD2	1:G:195:VAL:HG12	2.04	0.40
1:G:294:MET:HE3	1:G:382:LEU:HD11	2.03	0.40
1:G:427:ILE:HD11	1:I:424:LYS:HD2	2.04	0.40
1:H:509:THR:HG22	1:H:510:TYR:CD2	2.57	0.40
1:I:245:TRP:HH2	1:I:478:GLU:HG2	1.87	0.40
1:J:68:ASN:HB2	1:J:189:GLN:HE22	1.85	0.40
1:L:294:MET:HE3	1:L:382:LEU:HD11	2.03	0.40
1:N:509:THR:HG22	1:N:510:TYR:CD2	2.57	0.40
1:P:377:LEU:HD22	1:P:403:ILE:HG22	2.03	0.40
1:Q:206:ASN:HB3	1:Q:209:GLU:HB2	2.03	0.40
1:Q:489:PRO:HD3	1:R:108:PRO:HB2	2.04	0.40
1:Q:511:HIS:HD2	1:S:218:PHE:HB2	1.84	0.40
1:R:427:ILE:HD11	1:S:424:LYS:HD2	2.04	0.40
1:S:509:THR:HG22	1:S:510:TYR:CD2	2.57	0.40
1:c:156:HIS:O	1:c:446:ILE:HA	2.20	0.40
1:c:294:MET:HE3	1:c:382:LEU:HD11	2.03	0.40
1:e:206:ASN:HB3	1:e:209:GLU:HB2	2.03	0.40
1:f:409:ILE:H	1:f:530:ILE:HG12	1.86	0.40
1:g:68:ASN:HB2	1:g:189:GLN:HE22	1.85	0.40
1:g:509:THR:HG22	1:g:510:TYR:CD2	2.57	0.40
1:i:509:THR:HG22	1:i:510:TYR:CD2	2.57	0.40
1:j:245:TRP:HH2	1:j:478:GLU:HG2	1.87	0.40
1:j:509:THR:HG22	1:j:510:TYR:CD2	2.57	0.40
1:t:88:ARG:HD2	1:t:195:VAL:HG12	2.04	0.40
1:u:266:ARG:HH12	1:v:101:GLN:HE22	1.69	0.40
1:u:409:ILE:H	1:u:530:ILE:HG12	1.86	0.40
1:u:511:HIS:HD2	1:2:218:PHE:HB2	1.84	0.40
1:w:424:LYS:HD2	1:y:427:ILE:HD11	2.03	0.40
1:x:206:ASN:HB3	1:x:209:GLU:HB2	2.03	0.40
1:y:172:TRP:HE1	1:y:432:ASP:HB2	1.86	0.40
1:5:294:MET:HE3	1:5:382:LEU:HD11	2.03	0.40
1:5:427:ILE:HD11	1:6:424:LYS:HD2	2.04	0.40
1:6:509:THR:HG22	1:6:510:TYR:CD2	2.57	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	2	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	3	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	4	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	5	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	6	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	7	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	8	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	A	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	B	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	C	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	D	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	E	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	F	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	G	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	H	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	I	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	J	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	K	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	L	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	M	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	N	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	O	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	P	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	Q	504/506 (100%)	489 (97%)	15 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	R	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	S	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	T	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	U	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	V	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	W	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	X	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	Y	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	Z	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	a	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	b	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	c	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	d	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	e	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	f	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	g	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	h	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	i	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	j	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	k	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	l	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	m	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	n	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	o	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	p	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	q	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	r	504/506 (100%)	489 (97%)	15 (3%)	0	100	100
1	s	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	t	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	u	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	v	504/506 (100%)	488 (97%)	16 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	w	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	x	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	y	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
1	z	504/506 (100%)	488 (97%)	16 (3%)	0	100	100
All	All	30240/30360 (100%)	29294 (97%)	946 (3%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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%)	443 (100%)	0	100	100
1	2	443/444 (100%)	443 (100%)	0	100	100
1	3	443/444 (100%)	443 (100%)	0	100	100
1	4	443/444 (100%)	443 (100%)	0	100	100
1	5	443/444 (100%)	443 (100%)	0	100	100
1	6	443/444 (100%)	443 (100%)	0	100	100
1	7	443/444 (100%)	443 (100%)	0	100	100
1	8	443/444 (100%)	443 (100%)	0	100	100
1	A	443/444 (100%)	443 (100%)	0	100	100
1	B	443/444 (100%)	443 (100%)	0	100	100
1	C	443/444 (100%)	443 (100%)	0	100	100
1	D	443/444 (100%)	443 (100%)	0	100	100
1	E	443/444 (100%)	443 (100%)	0	100	100
1	F	443/444 (100%)	443 (100%)	0	100	100
1	G	443/444 (100%)	443 (100%)	0	100	100
1	H	443/444 (100%)	443 (100%)	0	100	100
1	I	443/444 (100%)	443 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	J	443/444 (100%)	443 (100%)	0	100	100
1	K	443/444 (100%)	443 (100%)	0	100	100
1	L	443/444 (100%)	443 (100%)	0	100	100
1	M	443/444 (100%)	443 (100%)	0	100	100
1	N	443/444 (100%)	443 (100%)	0	100	100
1	O	443/444 (100%)	443 (100%)	0	100	100
1	P	443/444 (100%)	443 (100%)	0	100	100
1	Q	443/444 (100%)	443 (100%)	0	100	100
1	R	443/444 (100%)	443 (100%)	0	100	100
1	S	443/444 (100%)	443 (100%)	0	100	100
1	T	443/444 (100%)	443 (100%)	0	100	100
1	U	443/444 (100%)	443 (100%)	0	100	100
1	V	443/444 (100%)	443 (100%)	0	100	100
1	W	443/444 (100%)	443 (100%)	0	100	100
1	X	443/444 (100%)	443 (100%)	0	100	100
1	Y	443/444 (100%)	443 (100%)	0	100	100
1	Z	443/444 (100%)	443 (100%)	0	100	100
1	a	443/444 (100%)	443 (100%)	0	100	100
1	b	443/444 (100%)	443 (100%)	0	100	100
1	c	443/444 (100%)	443 (100%)	0	100	100
1	d	443/444 (100%)	443 (100%)	0	100	100
1	e	443/444 (100%)	443 (100%)	0	100	100
1	f	443/444 (100%)	443 (100%)	0	100	100
1	g	443/444 (100%)	443 (100%)	0	100	100
1	h	443/444 (100%)	443 (100%)	0	100	100
1	i	443/444 (100%)	443 (100%)	0	100	100
1	j	443/444 (100%)	443 (100%)	0	100	100
1	k	443/444 (100%)	443 (100%)	0	100	100
1	l	443/444 (100%)	443 (100%)	0	100	100
1	m	443/444 (100%)	443 (100%)	0	100	100
1	n	443/444 (100%)	443 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	o	443/444 (100%)	443 (100%)	0	100	100
1	p	443/444 (100%)	443 (100%)	0	100	100
1	q	443/444 (100%)	443 (100%)	0	100	100
1	r	443/444 (100%)	443 (100%)	0	100	100
1	s	443/444 (100%)	443 (100%)	0	100	100
1	t	443/444 (100%)	443 (100%)	0	100	100
1	u	443/444 (100%)	443 (100%)	0	100	100
1	v	443/444 (100%)	443 (100%)	0	100	100
1	w	443/444 (100%)	443 (100%)	0	100	100
1	x	443/444 (100%)	443 (100%)	0	100	100
1	y	443/444 (100%)	443 (100%)	0	100	100
1	z	443/444 (100%)	443 (100%)	0	100	100
All	All	26580/26640 (100%)	26580 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1042) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	70	HIS
1	A	76	ASN
1	A	101	GLN
1	A	105	HIS
1	A	109	GLN
1	A	127	HIS
1	A	156	HIS
1	A	170	HIS
1	A	197	HIS
1	A	223	ASN
1	A	274	HIS
1	A	276	ASN
1	A	285	GLN
1	A	357	GLN
1	A	401	ASN
1	A	413	ASN
1	A	511	HIS
1	A	533	ASN
1	B	70	HIS

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Mol	Chain	Res	Type
1	B	76	ASN
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	197	HIS
1	B	223	ASN
1	B	274	HIS
1	B	357	GLN
1	B	401	ASN
1	B	413	ASN
1	B	511	HIS
1	B	533	ASN
1	C	58	ASN
1	C	70	HIS
1	C	76	ASN
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	170	HIS
1	C	197	HIS
1	C	223	ASN
1	C	274	HIS
1	C	285	GLN
1	C	357	GLN
1	C	401	ASN
1	C	413	ASN
1	C	511	HIS
1	C	533	ASN
1	D	70	HIS
1	D	76	ASN
1	D	101	GLN
1	D	105	HIS
1	D	109	GLN
1	D	127	HIS
1	D	137	GLN
1	D	156	HIS

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Mol	Chain	Res	Type
1	D	170	HIS
1	D	197	HIS
1	D	223	ASN
1	D	274	HIS
1	D	285	GLN
1	D	357	GLN
1	D	401	ASN
1	D	413	ASN
1	D	533	ASN
1	E	70	HIS
1	E	76	ASN
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	197	HIS
1	E	223	ASN
1	E	274	HIS
1	E	285	GLN
1	E	357	GLN
1	E	401	ASN
1	E	413	ASN
1	E	511	HIS
1	E	533	ASN
1	F	70	HIS
1	F	76	ASN
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	170	HIS
1	F	197	HIS
1	F	223	ASN
1	F	274	HIS
1	F	357	GLN
1	F	391	ASN
1	F	401	ASN
1	F	413	ASN

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Mol	Chain	Res	Type
1	F	533	ASN
1	G	70	HIS
1	G	76	ASN
1	G	101	GLN
1	G	105	HIS
1	G	109	GLN
1	G	127	HIS
1	G	156	HIS
1	G	170	HIS
1	G	197	HIS
1	G	223	ASN
1	G	274	HIS
1	G	276	ASN
1	G	285	GLN
1	G	357	GLN
1	G	401	ASN
1	G	413	ASN
1	G	511	HIS
1	G	533	ASN
1	H	58	ASN
1	H	70	HIS
1	H	76	ASN
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	197	HIS
1	H	223	ASN
1	H	274	HIS
1	H	357	GLN
1	H	401	ASN
1	H	413	ASN
1	H	511	HIS
1	H	533	ASN
1	I	70	HIS
1	I	76	ASN
1	I	101	GLN
1	I	105	HIS
1	I	109	GLN
1	I	127	HIS

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Mol	Chain	Res	Type
1	I	156	HIS
1	I	197	HIS
1	I	223	ASN
1	I	274	HIS
1	I	276	ASN
1	I	285	GLN
1	I	357	GLN
1	I	401	ASN
1	I	413	ASN
1	I	511	HIS
1	I	533	ASN
1	J	58	ASN
1	J	70	HIS
1	J	76	ASN
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	197	HIS
1	J	223	ASN
1	J	274	HIS
1	J	276	ASN
1	J	285	GLN
1	J	357	GLN
1	J	401	ASN
1	J	413	ASN
1	J	511	HIS
1	J	533	ASN
1	K	58	ASN
1	K	70	HIS
1	K	76	ASN
1	K	101	GLN
1	K	105	HIS
1	K	109	GLN
1	K	127	HIS
1	K	156	HIS
1	K	197	HIS
1	K	223	ASN
1	K	274	HIS
1	K	285	GLN

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Mol	Chain	Res	Type
1	K	357	GLN
1	K	391	ASN
1	K	401	ASN
1	K	413	ASN
1	K	511	HIS
1	K	533	ASN
1	L	70	HIS
1	L	76	ASN
1	L	101	GLN
1	L	105	HIS
1	L	109	GLN
1	L	127	HIS
1	L	156	HIS
1	L	197	HIS
1	L	223	ASN
1	L	274	HIS
1	L	285	GLN
1	L	357	GLN
1	L	401	ASN
1	L	413	ASN
1	L	511	HIS
1	L	533	ASN
1	M	70	HIS
1	M	76	ASN
1	M	101	GLN
1	M	105	HIS
1	M	109	GLN
1	M	127	HIS
1	M	156	HIS
1	M	197	HIS
1	M	223	ASN
1	M	274	HIS
1	M	276	ASN
1	M	285	GLN
1	M	357	GLN
1	M	401	ASN
1	M	413	ASN
1	M	533	ASN
1	N	70	HIS
1	N	76	ASN
1	N	101	GLN
1	N	105	HIS

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Mol	Chain	Res	Type
1	N	109	GLN
1	N	127	HIS
1	N	137	GLN
1	N	156	HIS
1	N	197	HIS
1	N	223	ASN
1	N	274	HIS
1	N	285	GLN
1	N	357	GLN
1	N	401	ASN
1	N	413	ASN
1	N	511	HIS
1	N	533	ASN
1	O	70	HIS
1	O	76	ASN
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	170	HIS
1	O	197	HIS
1	O	223	ASN
1	O	274	HIS
1	O	285	GLN
1	O	357	GLN
1	O	401	ASN
1	O	413	ASN
1	O	533	ASN
1	P	70	HIS
1	P	76	ASN
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	197	HIS
1	P	223	ASN
1	P	274	HIS
1	P	285	GLN

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Mol	Chain	Res	Type
1	P	357	GLN
1	P	401	ASN
1	P	413	ASN
1	P	511	HIS
1	P	533	ASN
1	Q	70	HIS
1	Q	76	ASN
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	197	HIS
1	Q	223	ASN
1	Q	274	HIS
1	Q	357	GLN
1	Q	401	ASN
1	Q	413	ASN
1	Q	511	HIS
1	Q	533	ASN
1	R	70	HIS
1	R	76	ASN
1	R	101	GLN
1	R	105	HIS
1	R	109	GLN
1	R	127	HIS
1	R	156	HIS
1	R	197	HIS
1	R	223	ASN
1	R	274	HIS
1	R	285	GLN
1	R	357	GLN
1	R	401	ASN
1	R	413	ASN
1	R	511	HIS
1	R	533	ASN
1	S	58	ASN
1	S	70	HIS
1	S	76	ASN
1	S	101	GLN
1	S	105	HIS

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Mol	Chain	Res	Type
1	S	109	GLN
1	S	127	HIS
1	S	137	GLN
1	S	156	HIS
1	S	197	HIS
1	S	223	ASN
1	S	274	HIS
1	S	285	GLN
1	S	357	GLN
1	S	401	ASN
1	S	413	ASN
1	S	511	HIS
1	S	533	ASN
1	T	58	ASN
1	T	70	HIS
1	T	76	ASN
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	197	HIS
1	T	223	ASN
1	T	274	HIS
1	T	285	GLN
1	T	357	GLN
1	T	391	ASN
1	T	401	ASN
1	T	413	ASN
1	T	511	HIS
1	T	533	ASN
1	U	70	HIS
1	U	76	ASN
1	U	101	GLN
1	U	105	HIS
1	U	109	GLN
1	U	127	HIS
1	U	156	HIS
1	U	197	HIS
1	U	223	ASN
1	U	274	HIS

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Mol	Chain	Res	Type
1	U	285	GLN
1	U	357	GLN
1	U	401	ASN
1	U	413	ASN
1	U	533	ASN
1	V	70	HIS
1	V	76	ASN
1	V	101	GLN
1	V	105	HIS
1	V	109	GLN
1	V	127	HIS
1	V	156	HIS
1	V	170	HIS
1	V	197	HIS
1	V	223	ASN
1	V	274	HIS
1	V	285	GLN
1	V	357	GLN
1	V	401	ASN
1	V	413	ASN
1	V	511	HIS
1	V	533	ASN
1	W	58	ASN
1	W	70	HIS
1	W	76	ASN
1	W	101	GLN
1	W	105	HIS
1	W	109	GLN
1	W	127	HIS
1	W	156	HIS
1	W	170	HIS
1	W	197	HIS
1	W	223	ASN
1	W	274	HIS
1	W	357	GLN
1	W	401	ASN
1	W	413	ASN
1	W	511	HIS
1	W	533	ASN
1	X	58	ASN
1	X	70	HIS
1	X	76	ASN

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Mol	Chain	Res	Type
1	X	101	GLN
1	X	105	HIS
1	X	109	GLN
1	X	127	HIS
1	X	156	HIS
1	X	170	HIS
1	X	197	HIS
1	X	223	ASN
1	X	274	HIS
1	X	276	ASN
1	X	285	GLN
1	X	357	GLN
1	X	401	ASN
1	X	413	ASN
1	X	511	HIS
1	X	533	ASN
1	Y	70	HIS
1	Y	76	ASN
1	Y	101	GLN
1	Y	105	HIS
1	Y	109	GLN
1	Y	127	HIS
1	Y	156	HIS
1	Y	170	HIS
1	Y	197	HIS
1	Y	223	ASN
1	Y	274	HIS
1	Y	276	ASN
1	Y	285	GLN
1	Y	357	GLN
1	Y	401	ASN
1	Y	413	ASN
1	Y	511	HIS
1	Y	533	ASN
1	Z	58	ASN
1	Z	70	HIS
1	Z	76	ASN
1	Z	101	GLN
1	Z	105	HIS
1	Z	109	GLN
1	Z	127	HIS
1	Z	156	HIS

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Mol	Chain	Res	Type
1	Z	197	HIS
1	Z	223	ASN
1	Z	274	HIS
1	Z	285	GLN
1	Z	357	GLN
1	Z	401	ASN
1	Z	413	ASN
1	Z	511	HIS
1	Z	533	ASN
1	a	58	ASN
1	a	70	HIS
1	a	76	ASN
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	197	HIS
1	a	223	ASN
1	a	274	HIS
1	a	276	ASN
1	a	285	GLN
1	a	357	GLN
1	a	401	ASN
1	a	413	ASN
1	a	511	HIS
1	a	533	ASN
1	b	70	HIS
1	b	76	ASN
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	170	HIS
1	b	197	HIS
1	b	223	ASN
1	b	274	HIS
1	b	357	GLN
1	b	401	ASN

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Mol	Chain	Res	Type
1	b	413	ASN
1	b	511	HIS
1	b	533	ASN
1	c	70	HIS
1	c	76	ASN
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	197	HIS
1	c	223	ASN
1	c	274	HIS
1	c	276	ASN
1	c	285	GLN
1	c	357	GLN
1	c	391	ASN
1	c	401	ASN
1	c	413	ASN
1	c	511	HIS
1	c	533	ASN
1	d	61	GLN
1	d	70	HIS
1	d	76	ASN
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	197	HIS
1	d	223	ASN
1	d	274	HIS
1	d	276	ASN
1	d	285	GLN
1	d	357	GLN
1	d	401	ASN
1	d	413	ASN
1	d	511	HIS
1	d	533	ASN
1	e	70	HIS

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Mol	Chain	Res	Type
1	e	76	ASN
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	197	HIS
1	e	223	ASN
1	e	274	HIS
1	e	276	ASN
1	e	357	GLN
1	e	391	ASN
1	e	401	ASN
1	e	413	ASN
1	e	511	HIS
1	e	533	ASN
1	f	70	HIS
1	f	76	ASN
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	170	HIS
1	f	197	HIS
1	f	223	ASN
1	f	274	HIS
1	f	357	GLN
1	f	401	ASN
1	f	413	ASN
1	f	511	HIS
1	f	533	ASN
1	g	58	ASN
1	g	70	HIS
1	g	76	ASN
1	g	101	GLN
1	g	105	HIS
1	g	109	GLN
1	g	127	HIS
1	g	137	GLN

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Mol	Chain	Res	Type
1	g	156	HIS
1	g	170	HIS
1	g	197	HIS
1	g	223	ASN
1	g	274	HIS
1	g	285	GLN
1	g	357	GLN
1	g	401	ASN
1	g	413	ASN
1	g	511	HIS
1	g	533	ASN
1	h	70	HIS
1	h	76	ASN
1	h	101	GLN
1	h	105	HIS
1	h	109	GLN
1	h	127	HIS
1	h	156	HIS
1	h	197	HIS
1	h	223	ASN
1	h	274	HIS
1	h	276	ASN
1	h	357	GLN
1	h	401	ASN
1	h	413	ASN
1	h	511	HIS
1	h	533	ASN
1	i	70	HIS
1	i	76	ASN
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	197	HIS
1	i	223	ASN
1	i	274	HIS
1	i	285	GLN
1	i	357	GLN
1	i	401	ASN
1	i	413	ASN

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Mol	Chain	Res	Type
1	i	511	HIS
1	i	533	ASN
1	j	70	HIS
1	j	76	ASN
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	197	HIS
1	j	223	ASN
1	j	274	HIS
1	j	285	GLN
1	j	357	GLN
1	j	401	ASN
1	j	413	ASN
1	j	511	HIS
1	j	533	ASN
1	k	70	HIS
1	k	76	ASN
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	170	HIS
1	k	197	HIS
1	k	223	ASN
1	k	274	HIS
1	k	357	GLN
1	k	401	ASN
1	k	413	ASN
1	k	511	HIS
1	k	533	ASN
1	l	70	HIS
1	l	76	ASN
1	l	101	GLN
1	l	105	HIS
1	l	109	GLN
1	l	127	HIS

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Mol	Chain	Res	Type
1	l	137	GLN
1	l	156	HIS
1	l	170	HIS
1	l	197	HIS
1	l	223	ASN
1	l	274	HIS
1	l	285	GLN
1	l	357	GLN
1	l	401	ASN
1	l	413	ASN
1	l	533	ASN
1	m	70	HIS
1	m	76	ASN
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	197	HIS
1	m	223	ASN
1	m	274	HIS
1	m	285	GLN
1	m	357	GLN
1	m	401	ASN
1	m	413	ASN
1	m	511	HIS
1	m	533	ASN
1	n	58	ASN
1	n	70	HIS
1	n	76	ASN
1	n	101	GLN
1	n	105	HIS
1	n	109	GLN
1	n	127	HIS
1	n	137	GLN
1	n	156	HIS
1	n	197	HIS
1	n	223	ASN
1	n	274	HIS
1	n	276	ASN
1	n	357	GLN

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Mol	Chain	Res	Type
1	n	401	ASN
1	n	413	ASN
1	n	511	HIS
1	n	533	ASN
1	o	58	ASN
1	o	70	HIS
1	o	76	ASN
1	o	101	GLN
1	o	105	HIS
1	o	109	GLN
1	o	127	HIS
1	o	156	HIS
1	o	170	HIS
1	o	197	HIS
1	o	223	ASN
1	o	274	HIS
1	o	276	ASN
1	o	285	GLN
1	o	357	GLN
1	o	401	ASN
1	o	413	ASN
1	o	511	HIS
1	o	533	ASN
1	p	70	HIS
1	p	76	ASN
1	p	101	GLN
1	p	105	HIS
1	p	109	GLN
1	p	127	HIS
1	p	156	HIS
1	p	170	HIS
1	p	197	HIS
1	p	223	ASN
1	p	274	HIS
1	p	285	GLN
1	p	357	GLN
1	p	401	ASN
1	p	413	ASN
1	p	511	HIS
1	p	533	ASN
1	q	70	HIS
1	q	76	ASN

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Mol	Chain	Res	Type
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	197	HIS
1	q	223	ASN
1	q	274	HIS
1	q	285	GLN
1	q	357	GLN
1	q	401	ASN
1	q	413	ASN
1	q	511	HIS
1	q	533	ASN
1	r	58	ASN
1	r	70	HIS
1	r	76	ASN
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	197	HIS
1	r	223	ASN
1	r	274	HIS
1	r	285	GLN
1	r	357	GLN
1	r	401	ASN
1	r	413	ASN
1	r	511	HIS
1	r	533	ASN
1	s	70	HIS
1	s	76	ASN
1	s	101	GLN
1	s	105	HIS
1	s	109	GLN
1	s	127	HIS
1	s	156	HIS
1	s	197	HIS
1	s	223	ASN

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Mol	Chain	Res	Type
1	s	274	HIS
1	s	357	GLN
1	s	401	ASN
1	s	413	ASN
1	s	533	ASN
1	t	70	HIS
1	t	76	ASN
1	t	101	GLN
1	t	105	HIS
1	t	109	GLN
1	t	127	HIS
1	t	156	HIS
1	t	170	HIS
1	t	197	HIS
1	t	223	ASN
1	t	274	HIS
1	t	276	ASN
1	t	285	GLN
1	t	357	GLN
1	t	401	ASN
1	t	413	ASN
1	t	511	HIS
1	t	533	ASN
1	u	70	HIS
1	u	76	ASN
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	197	HIS
1	u	223	ASN
1	u	274	HIS
1	u	276	ASN
1	u	285	GLN
1	u	357	GLN
1	u	401	ASN
1	u	413	ASN
1	u	511	HIS
1	u	533	ASN
1	v	70	HIS

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Mol	Chain	Res	Type
1	v	76	ASN
1	v	101	GLN
1	v	105	HIS
1	v	109	GLN
1	v	127	HIS
1	v	156	HIS
1	v	170	HIS
1	v	197	HIS
1	v	223	ASN
1	v	274	HIS
1	v	276	ASN
1	v	285	GLN
1	v	357	GLN
1	v	401	ASN
1	v	413	ASN
1	v	511	HIS
1	v	533	ASN
1	w	70	HIS
1	w	76	ASN
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	197	HIS
1	w	223	ASN
1	w	274	HIS
1	w	285	GLN
1	w	357	GLN
1	w	401	ASN
1	w	413	ASN
1	w	511	HIS
1	w	533	ASN
1	x	58	ASN
1	x	70	HIS
1	x	76	ASN
1	x	101	GLN
1	x	105	HIS
1	x	109	GLN
1	x	127	HIS
1	x	137	GLN

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Mol	Chain	Res	Type
1	x	156	HIS
1	x	197	HIS
1	x	223	ASN
1	x	274	HIS
1	x	276	ASN
1	x	285	GLN
1	x	357	GLN
1	x	401	ASN
1	x	413	ASN
1	x	511	HIS
1	x	533	ASN
1	y	70	HIS
1	y	76	ASN
1	y	101	GLN
1	y	105	HIS
1	y	109	GLN
1	y	127	HIS
1	y	137	GLN
1	y	156	HIS
1	y	170	HIS
1	y	197	HIS
1	y	223	ASN
1	y	274	HIS
1	y	285	GLN
1	y	357	GLN
1	y	391	ASN
1	y	401	ASN
1	y	413	ASN
1	y	533	ASN
1	z	70	HIS
1	z	76	ASN
1	z	101	GLN
1	z	105	HIS
1	z	109	GLN
1	z	127	HIS
1	z	156	HIS
1	z	197	HIS
1	z	223	ASN
1	z	274	HIS
1	z	285	GLN
1	z	357	GLN
1	z	401	ASN

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Mol	Chain	Res	Type
1	z	413	ASN
1	z	511	HIS
1	z	533	ASN
1	1	70	HIS
1	1	76	ASN
1	1	101	GLN
1	1	105	HIS
1	1	109	GLN
1	1	127	HIS
1	1	137	GLN
1	1	156	HIS
1	1	197	HIS
1	1	223	ASN
1	1	274	HIS
1	1	357	GLN
1	1	401	ASN
1	1	413	ASN
1	1	511	HIS
1	1	533	ASN
1	2	70	HIS
1	2	76	ASN
1	2	101	GLN
1	2	105	HIS
1	2	109	GLN
1	2	127	HIS
1	2	156	HIS
1	2	197	HIS
1	2	223	ASN
1	2	274	HIS
1	2	285	GLN
1	2	357	GLN
1	2	391	ASN
1	2	401	ASN
1	2	413	ASN
1	2	511	HIS
1	2	533	ASN
1	3	58	ASN
1	3	70	HIS
1	3	76	ASN
1	3	101	GLN
1	3	105	HIS
1	3	109	GLN

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Mol	Chain	Res	Type
1	3	127	HIS
1	3	137	GLN
1	3	156	HIS
1	3	170	HIS
1	3	197	HIS
1	3	223	ASN
1	3	274	HIS
1	3	276	ASN
1	3	285	GLN
1	3	357	GLN
1	3	401	ASN
1	3	413	ASN
1	3	511	HIS
1	3	533	ASN
1	4	70	HIS
1	4	76	ASN
1	4	101	GLN
1	4	105	HIS
1	4	109	GLN
1	4	127	HIS
1	4	156	HIS
1	4	170	HIS
1	4	197	HIS
1	4	223	ASN
1	4	274	HIS
1	4	285	GLN
1	4	357	GLN
1	4	401	ASN
1	4	413	ASN
1	4	511	HIS
1	4	533	ASN
1	5	58	ASN
1	5	70	HIS
1	5	76	ASN
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	197	HIS
1	5	223	ASN

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Mol	Chain	Res	Type
1	5	274	HIS
1	5	357	GLN
1	5	401	ASN
1	5	413	ASN
1	5	533	ASN
1	6	58	ASN
1	6	70	HIS
1	6	76	ASN
1	6	101	GLN
1	6	105	HIS
1	6	109	GLN
1	6	127	HIS
1	6	156	HIS
1	6	170	HIS
1	6	197	HIS
1	6	223	ASN
1	6	274	HIS
1	6	285	GLN
1	6	357	GLN
1	6	401	ASN
1	6	413	ASN
1	6	511	HIS
1	6	533	ASN
1	7	70	HIS
1	7	76	ASN
1	7	101	GLN
1	7	105	HIS
1	7	109	GLN
1	7	127	HIS
1	7	156	HIS
1	7	170	HIS
1	7	197	HIS
1	7	223	ASN
1	7	274	HIS
1	7	285	GLN
1	7	357	GLN
1	7	401	ASN
1	7	413	ASN
1	7	511	HIS
1	7	533	ASN
1	8	58	ASN
1	8	70	HIS

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Mol	Chain	Res	Type
1	8	76	ASN
1	8	101	GLN
1	8	105	HIS
1	8	109	GLN
1	8	127	HIS
1	8	156	HIS
1	8	197	HIS
1	8	223	ASN
1	8	274	HIS
1	8	285	GLN
1	8	357	GLN
1	8	401	ASN
1	8	413	ASN
1	8	511	HIS
1	8	533	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

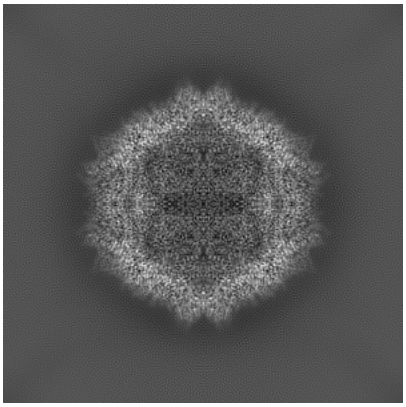
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-23105. These allow visual inspection of the internal detail of the map and identification of artifacts.

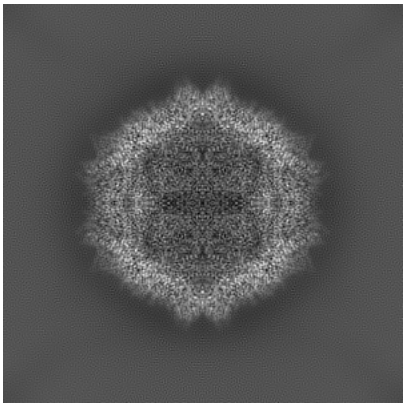
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

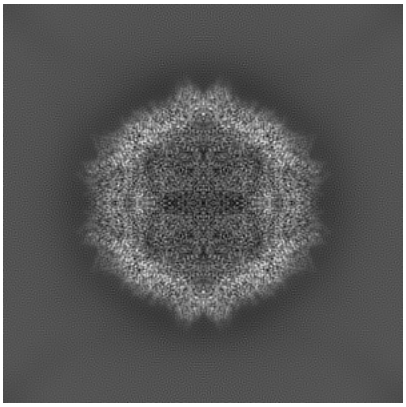
6.1.1 Primary map



X



Y

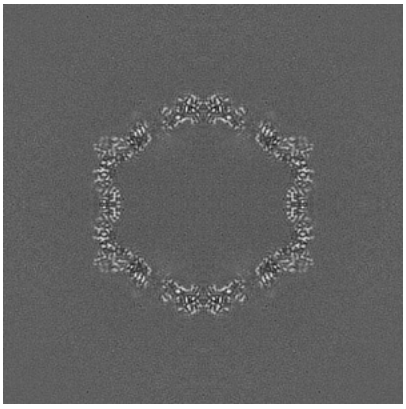


Z

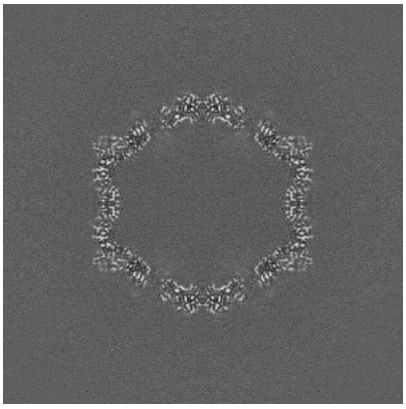
The images above show the map projected in three orthogonal directions.

6.2 Central slices

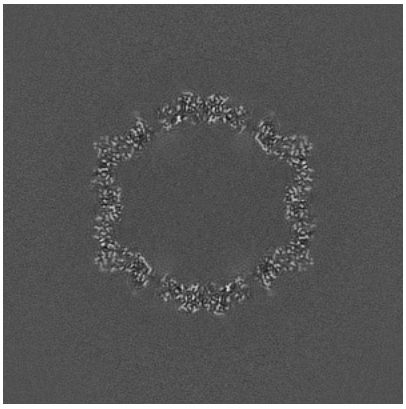
6.2.1 Primary map



X Index: 225



Y Index: 225

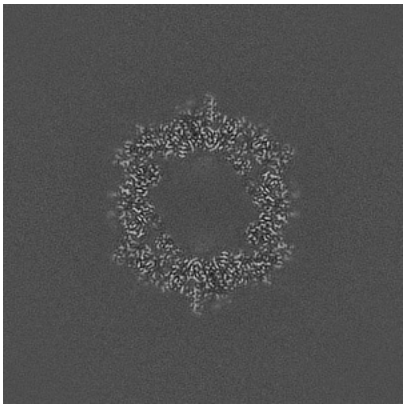


Z Index: 225

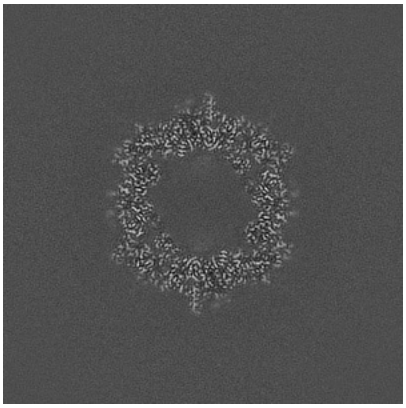
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

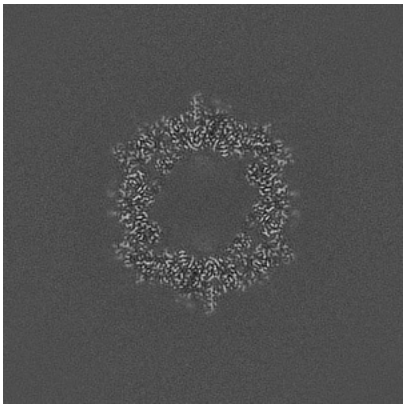
6.3.1 Primary map



X Index: 295



Y Index: 295

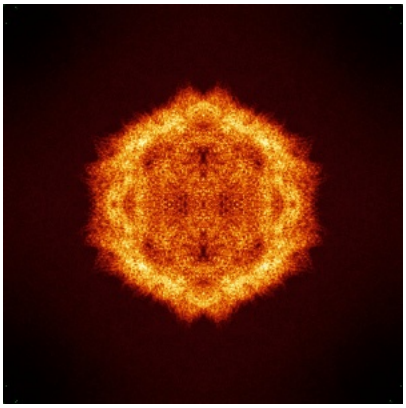


Z Index: 154

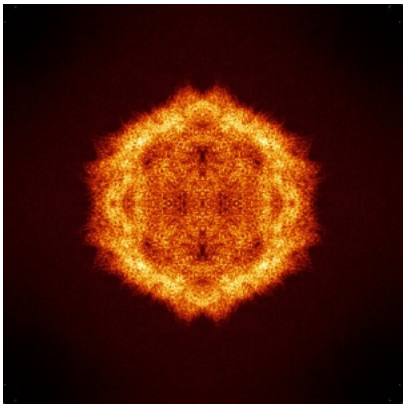
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

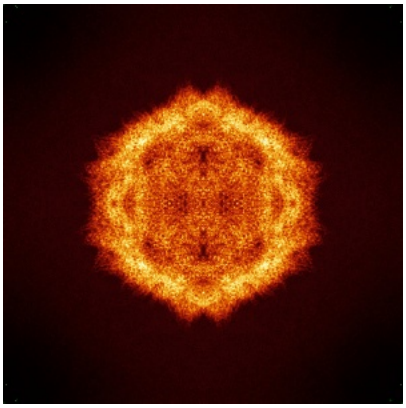
6.4.1 Primary map



X



Y

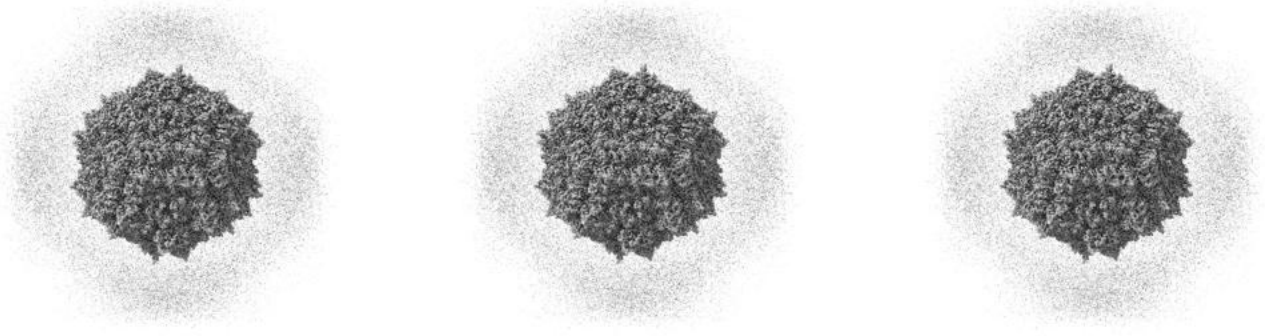


Z

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



X Y Z

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

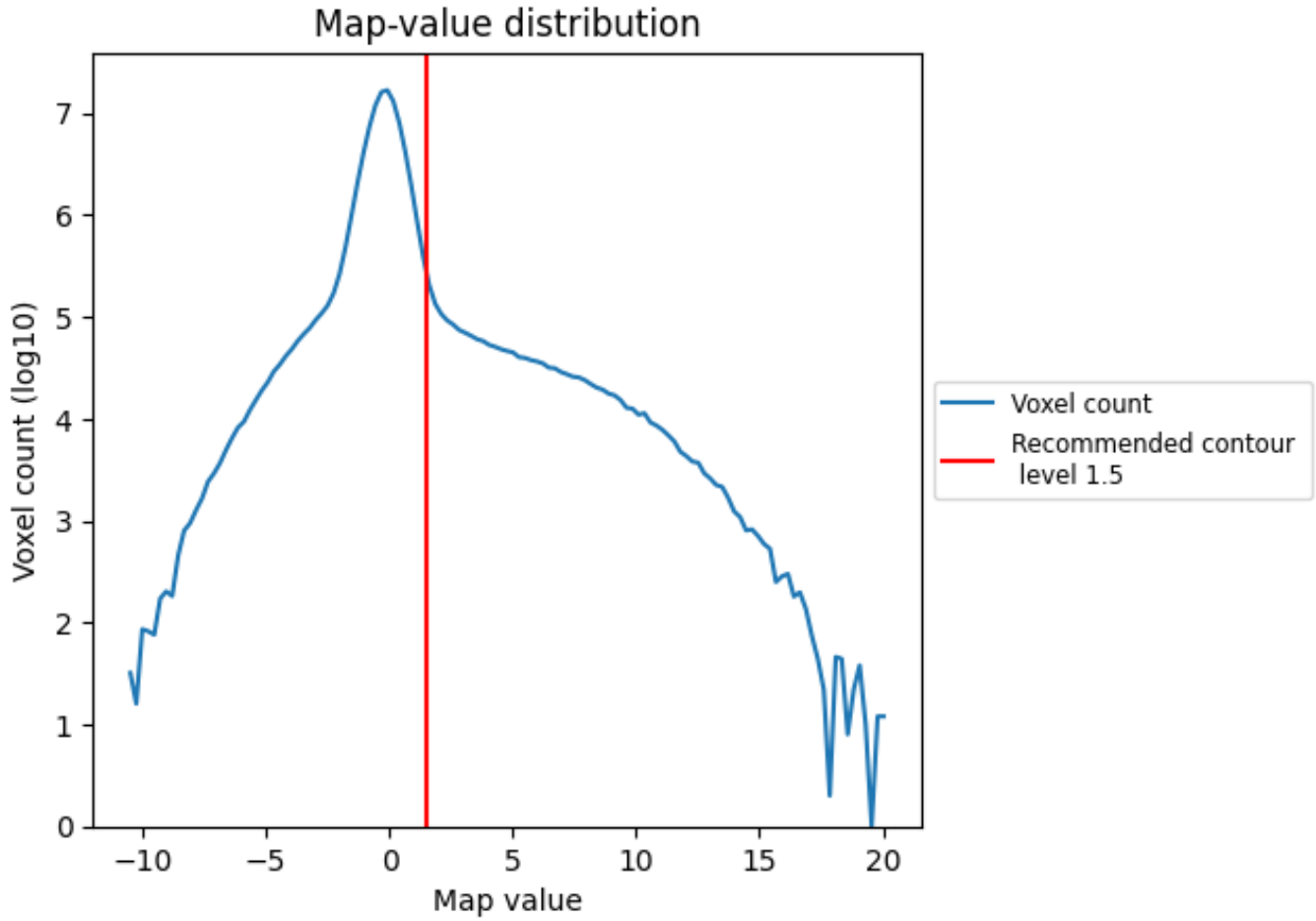
6.6 Mask visualisation (i)

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

7 Map analysis

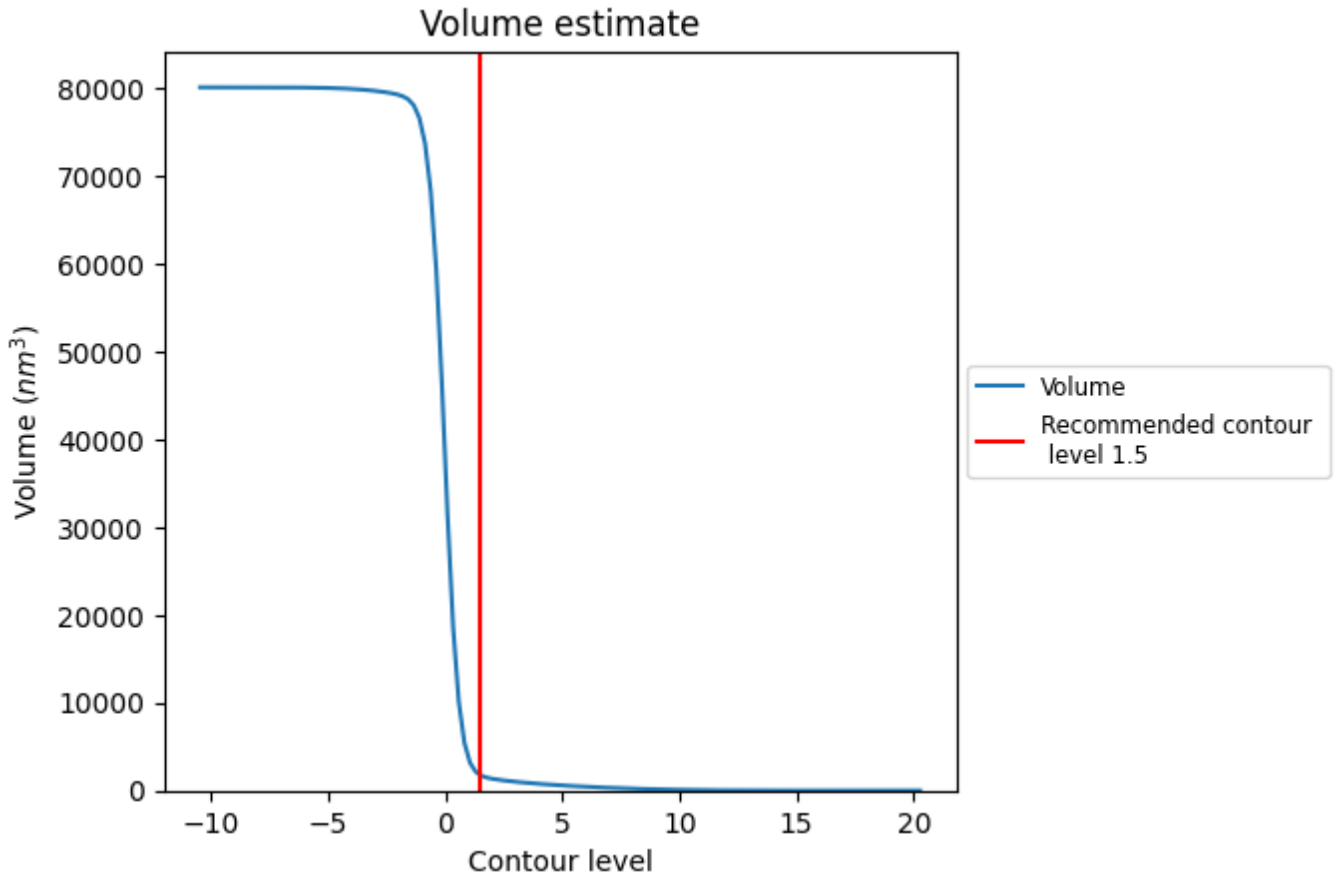
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

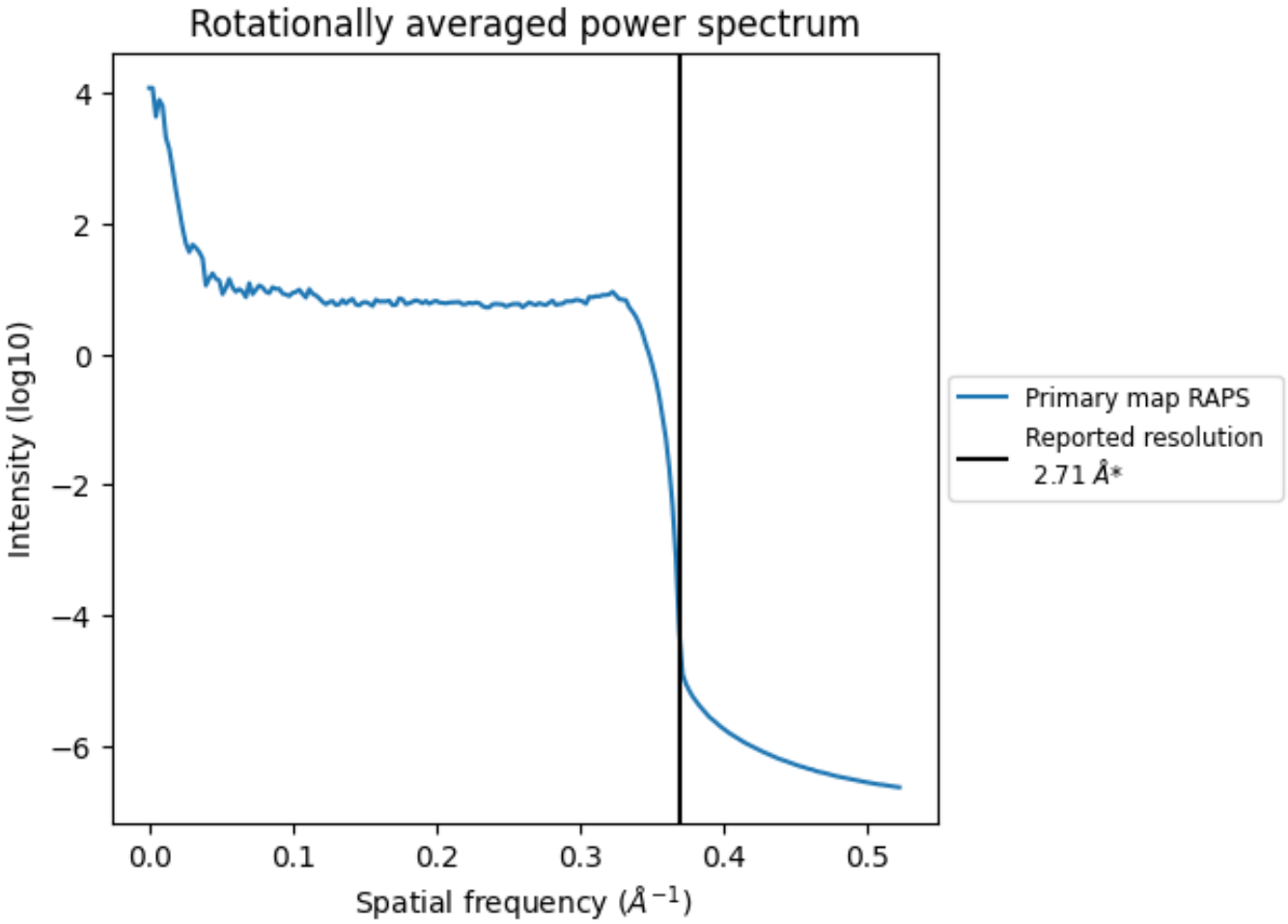
7.2 Volume estimate



The volume at the recommended contour level is 1769 nm^3; this corresponds to an approximate mass of 1598 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.369 Å^{-1}

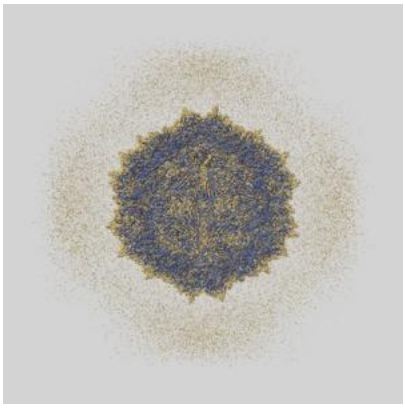
8 Fourier-Shell correlation (i)

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

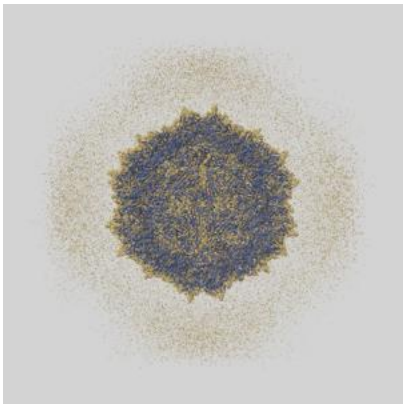
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-23105 and PDB model 7L0V. Per-residue inclusion information can be found in section 3 on page 10.

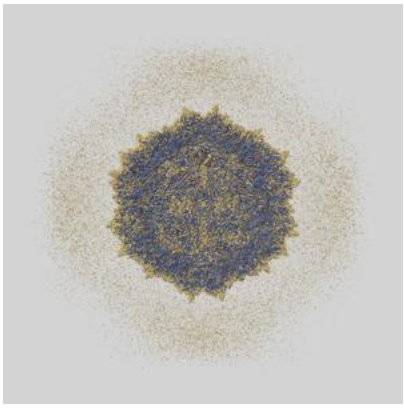
9.1 Map-model overlay



X



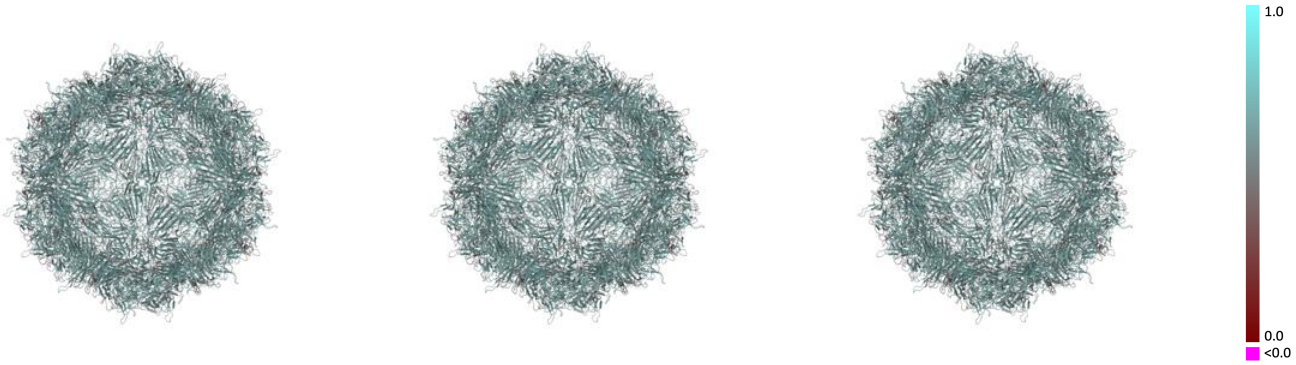
Y



Z

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.

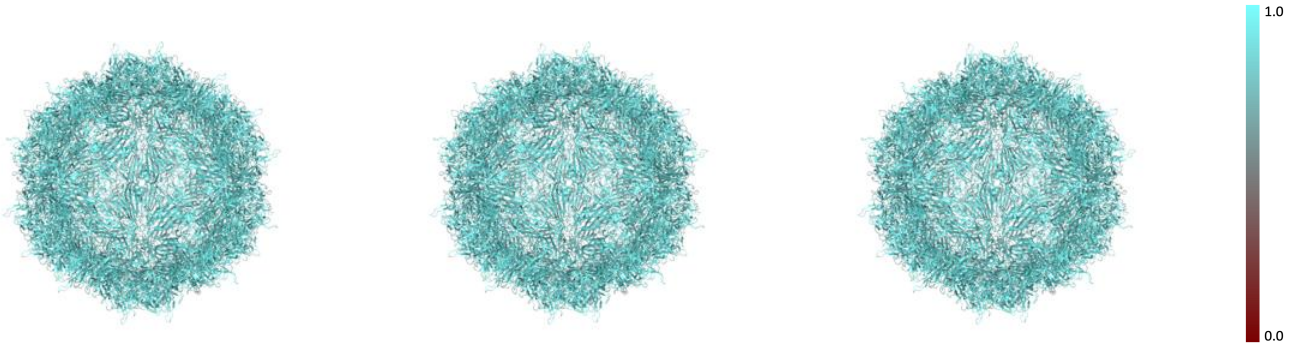
9.2 Q-score mapped to coordinate model



X Y Z

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.

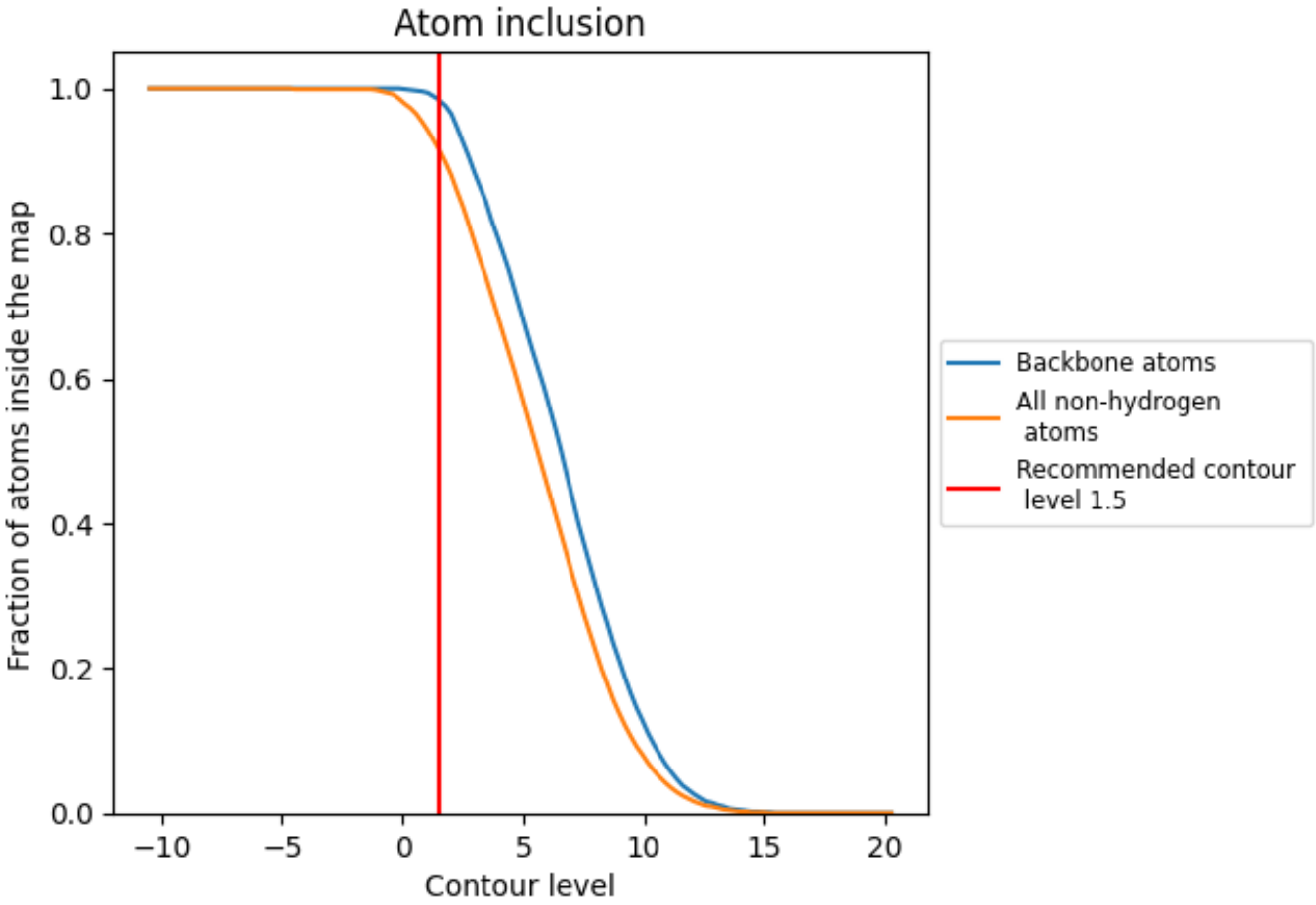
9.3 Atom inclusion mapped to coordinate model



X Y Z

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, 98% of all backbone atoms, 92% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

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

Chain	Atom inclusion	Q-score
All	0.9170	0.5960
1	0.9190	0.5970
2	0.9170	0.5960
3	0.9170	0.5960
4	0.9180	0.5970
5	0.9170	0.5960
6	0.9180	0.5960
7	0.9170	0.5970
8	0.9170	0.5970
A	0.9170	0.5960
B	0.9180	0.5960
C	0.9180	0.5970
D	0.9170	0.5950
E	0.9160	0.5960
F	0.9170	0.5950
G	0.9160	0.5950
H	0.9170	0.5960
I	0.9180	0.5970
J	0.9170	0.5960
K	0.9180	0.5980
L	0.9180	0.5960
M	0.9160	0.5970
N	0.9170	0.5970
O	0.9170	0.5960
P	0.9170	0.5970
Q	0.9180	0.5970
R	0.9180	0.5970
S	0.9170	0.5960
T	0.9180	0.5980
U	0.9180	0.5970
V	0.9180	0.5970
W	0.9170	0.5960
X	0.9160	0.5960
Y	0.9170	0.5970
Z	0.9170	0.5960

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Chain	Atom inclusion	Q-score
a	0.9170	0.5960
b	0.9170	0.5970
c	0.9170	0.5960
d	0.9170	0.5970
e	0.9170	0.5970
f	0.9170	0.5970
g	0.9190	0.5970
h	0.9160	0.5960
i	0.9170	0.5970
j	0.9170	0.5960
k	0.9180	0.5960
l	0.9170	0.5960
m	0.9180	0.5980
n	0.9170	0.5960
o	0.9160	0.5960
p	0.9190	0.5960
q	0.9190	0.5960
r	0.9170	0.5960
s	0.9190	0.5960
t	0.9170	0.5960
u	0.9190	0.5970
v	0.9170	0.5960
w	0.9170	0.5950
x	0.9190	0.5960
y	0.9170	0.5950
z	0.9190	0.5960